LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 28

2023

Bate Stamp Numbers
01185519 – 01187418

Prepared for

Department of the Army
Longhorn Army Ammunition Plant

1976–2023

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

VOLUME 28

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: 01185519–01186494

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.

B.
Title: Minutes – Final Monthly Managers' Meeting (MMM), Longhorn Army Ammunition Plant, July 19, 2023
Author(s): Department of the Army
Recipient: All Parties
Date: August 8, 2023
Bate Stamp: 01186495–01186506

C.
Title: Report – Final Preliminary Assessment and Site Inspection of Per- and Polyfluoroalkyl Substances, Former Longhorn Army Ammunition Plant, Texas
Author(s): Arcadis U.S., Inc.
Recipient: USACE
Date: August 18, 2023
Bate Stamp: 01186507–01187418

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

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 Influent Samples

Workorder
HS23031294

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 15:51	11	LH18/24-SP140_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

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 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

HS23031294

Client

Bhate Environmental Associates, Inc.

Project

Groundwater Treatment Plant
Quarterly Influent Samples

04/04/2023

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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 Influent Samples

Workorder HS23031294

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

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 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 Influent Samples

Workorder HS23031294

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.: HS23031294

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	HS23031294-01	2756	2.34	8637	3.37	5440	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.: HS23031294

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	HS23031294-01	10611		6.39		3356		8.92		1531		10.44	
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.

01185530

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Form 12

Preparation Log

Semi-VolatilesEPA 3510

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 12 - Preparation Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

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	HS23031294-01	1000	1	LH18/24-SP140_032123

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Analysis Run Log

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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www.alsglobal.com

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Groundwater Treatment Plant Quarterly Influent Samples

Workorder
HS23031294

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 Influent Samples

Workorder
HS23031294

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	ZZZZZZZZZZ	SAMP	HS23031291-01	10.D	03/30/23	10
15:51	LH18/24-SP140_032123	SAMP	HS23031294-01	11.D	03/30/23	10
16:22	14DX-CCV_END	CCV	14DX-CCV_END	12.D	03/30/23	1

01185535

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Raw Data SV-6 427063

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

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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (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

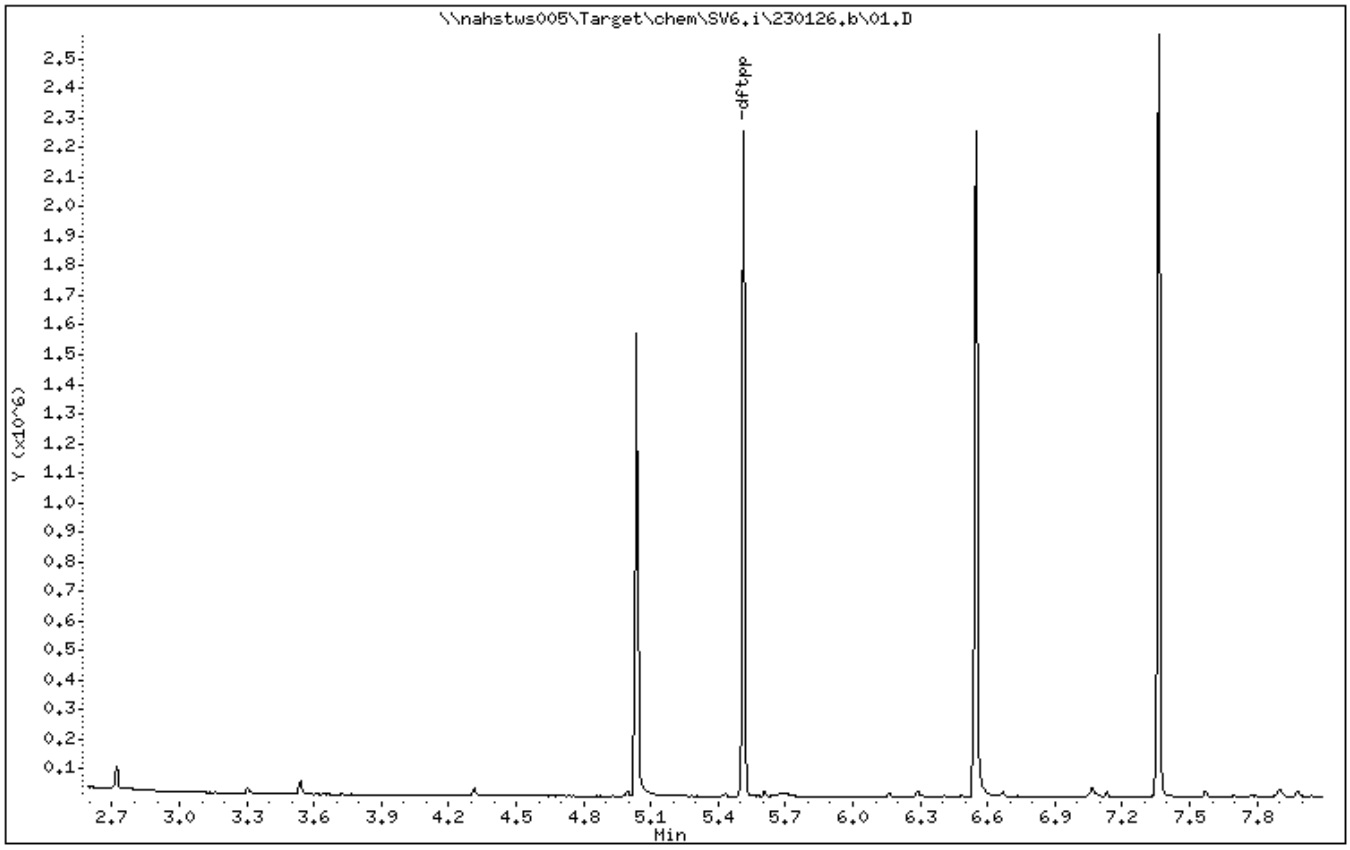
Instrument: SV6.i

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

Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.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\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.

01185543

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

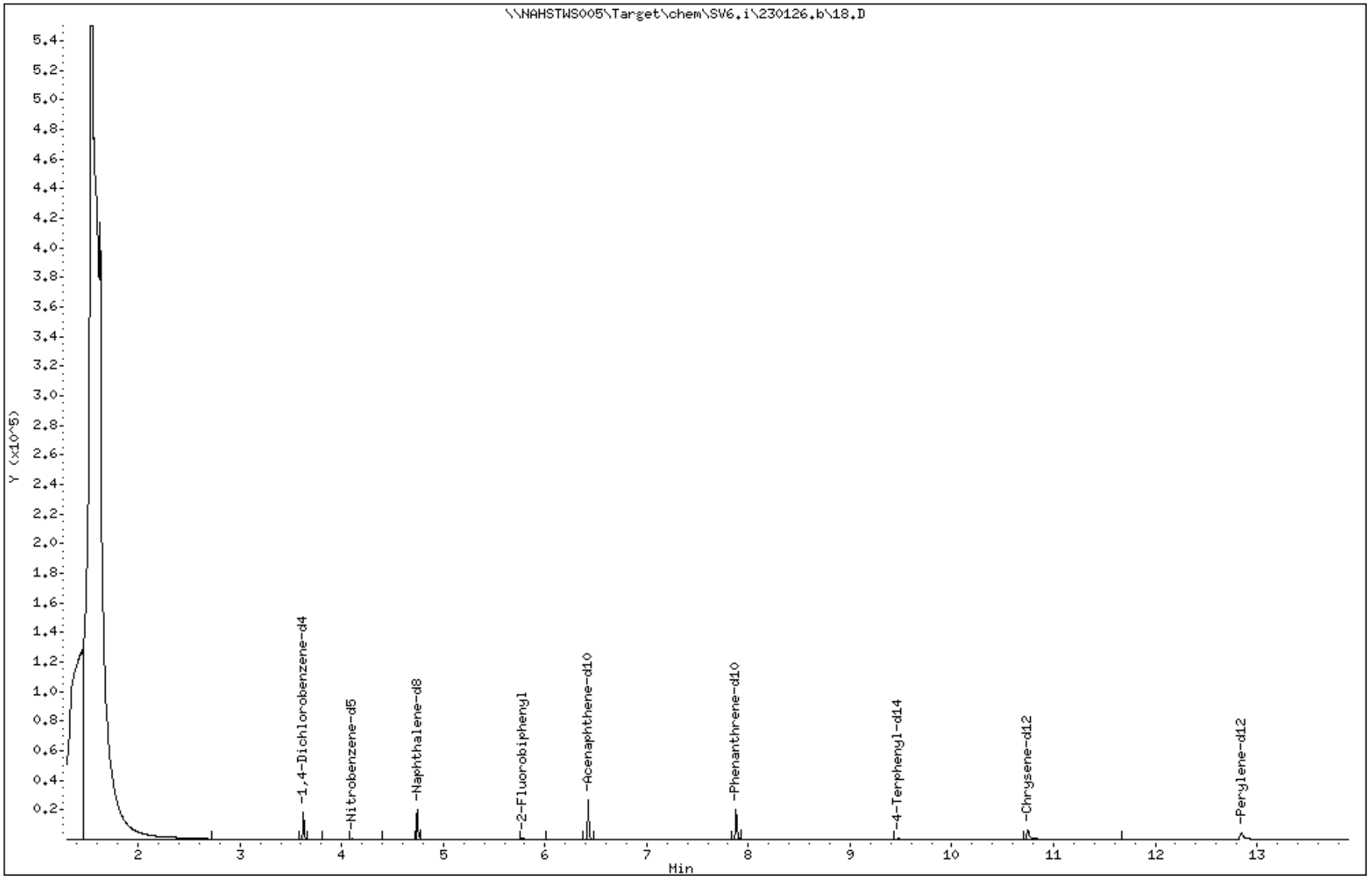
Sample Info: 1 4-DX-0.01;1 4-DX-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

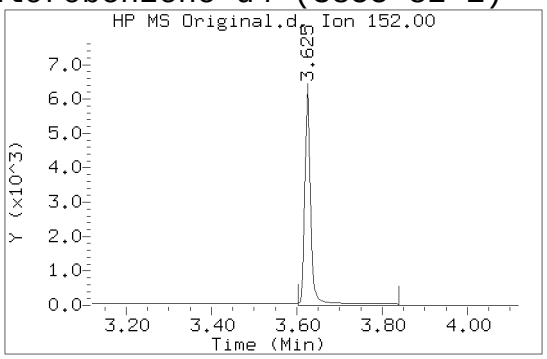


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.D
Inj Date : 26-JAN-2023 17:04
InstruID : SV6.i
LabSampID : 1 4-DX-0.01

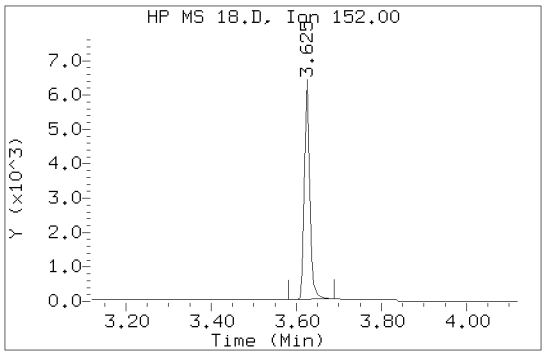
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

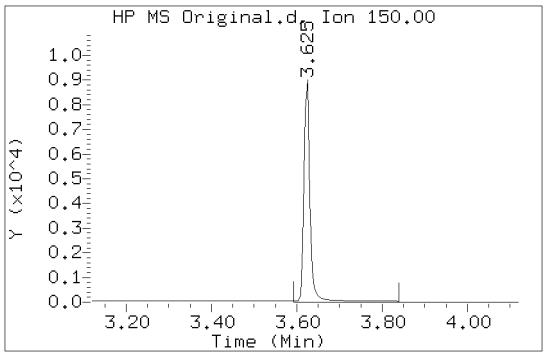
BEFORE
MASS
152
AREA
6387
HEIGHT
6448
26-Jan-2023
17:20
ALSHS
Server



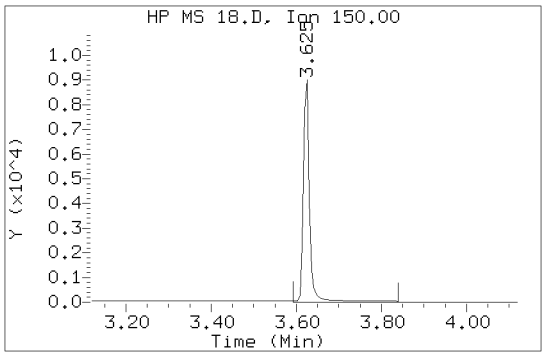
AFTER
MASS
152
AREA
5528
HEIGHT
6387
27-Jan-2023
11:55



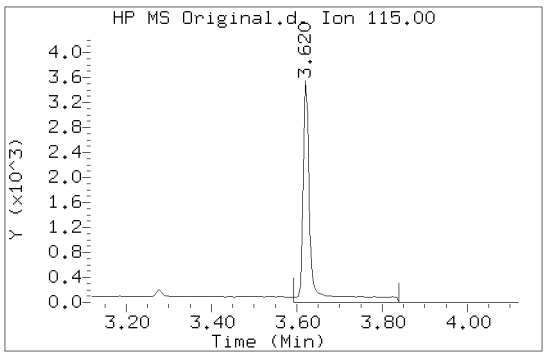
BEFORE
MASS
150
AREA
9160
HEIGHT
9004
26-Jan-2023
17:20
ALSHS
Server



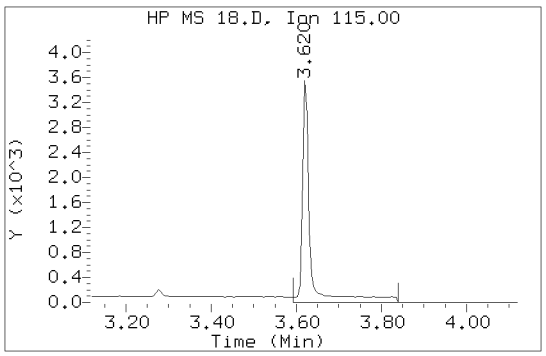
AFTER
MASS
150
AREA
9160
HEIGHT
9004
27-Jan-2023
11:55



BEFORE
MASS
115
AREA
4488
HEIGHT
3548
26-Jan-2023
17:20
ALSHS
Server



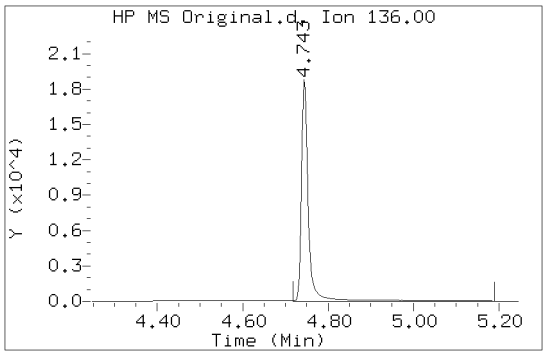
AFTER
MASS
115
AREA
4488
HEIGHT
3548
27-Jan-2023
11:55



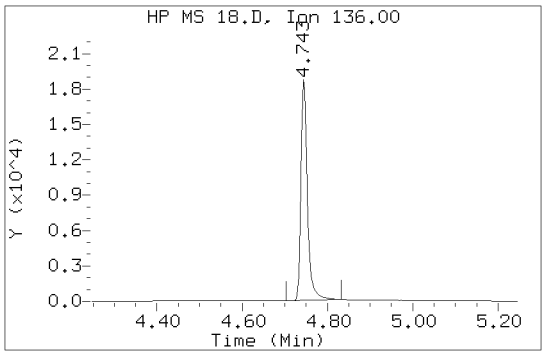
Naphthalene-d8 (1146-65-2)

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



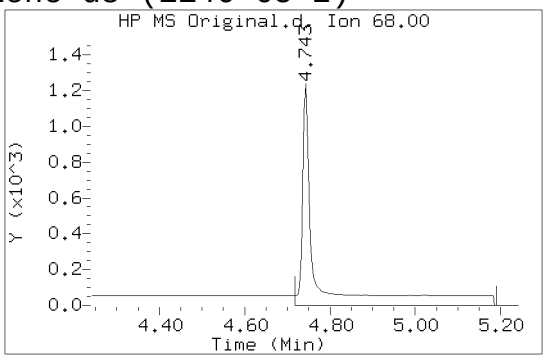
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.D
Inj Date : 26-JAN-2023 17:04
InstruID : SV6.i
LabSampID : 1 4-DX-0.01

Naphthalene-d8 (1146-65-2)

Reason Code:

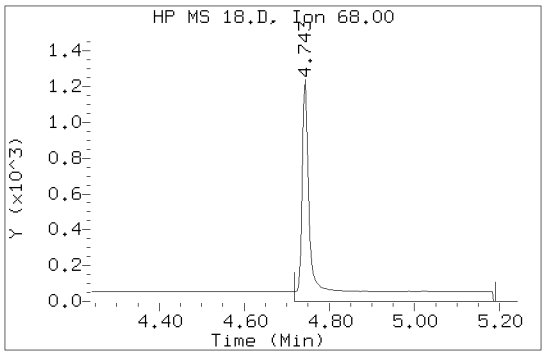
BEFORE

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

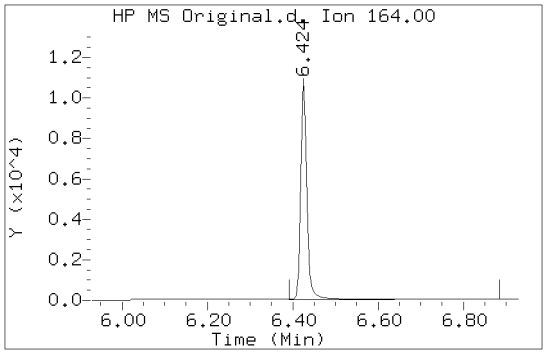


Acenaphthene-d10 (15067-26-2)

Reason Code:

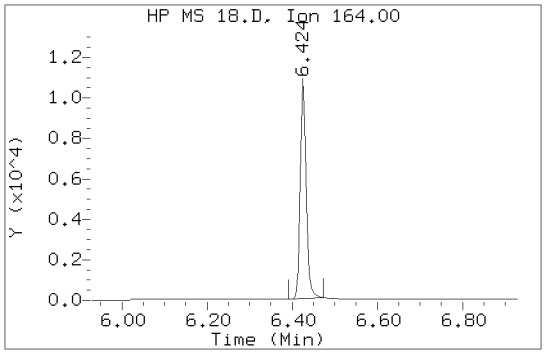
BEFORE

MASS
164
AREA
11469
HEIGHT
10928
26-Jan-2023
17:20
ALSHS
Server



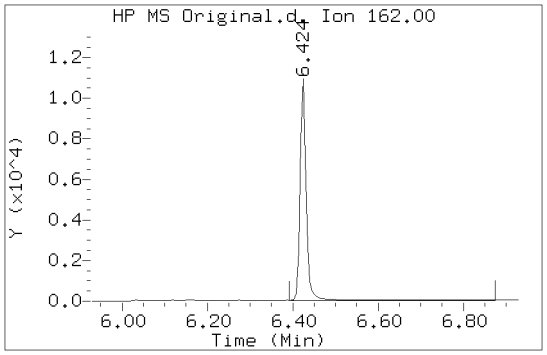
AFTER

MASS
164
AREA
10608
HEIGHT
10870
27-Jan-2023
11:55



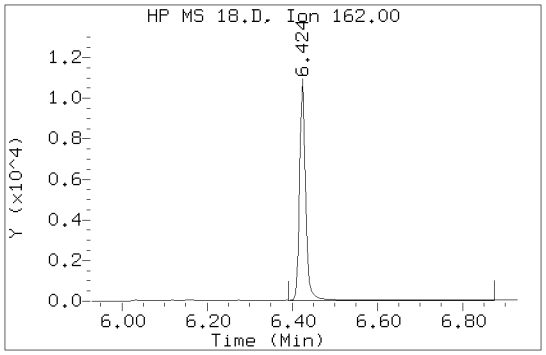
BEFORE

MASS
162
AREA
11331
HEIGHT
10930
26-Jan-2023
17:20
ALSHS
Server



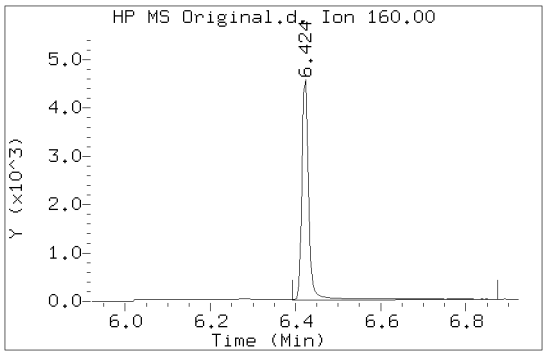
AFTER

MASS
162
AREA
11331
HEIGHT
10930
27-Jan-2023
11:55



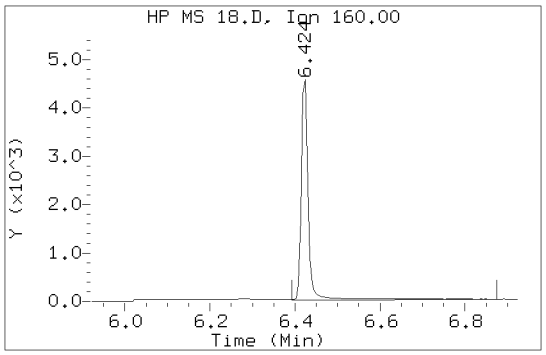
BEFORE

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

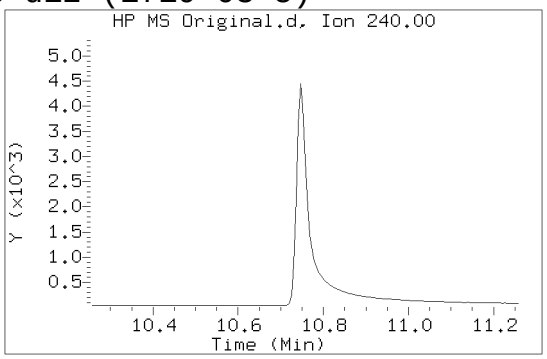


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.D
Inj Date : 26-JAN-2023 17:04
InstruID : SV6.i
LabSampID : 1 4-DX-0.01

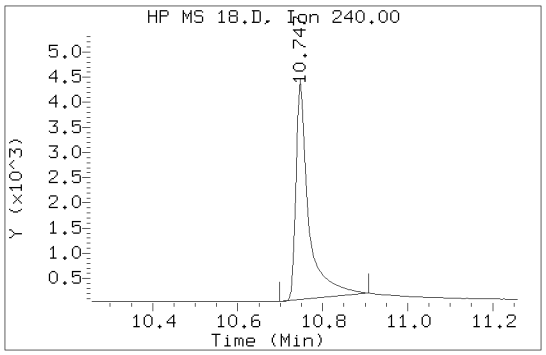
Chrysene-d12 (1719-03-5)

Reason Code:

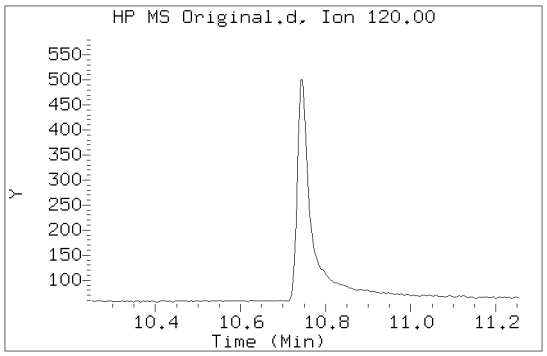
BEFORE
MASS
240
AREA
0
HEIGHT
0
26-Jan-2023
17:20
ALSHS
Server



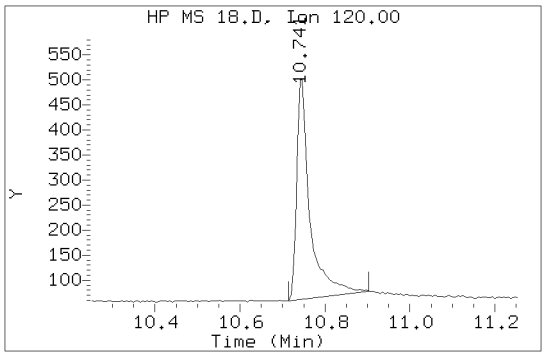
AFTER
MASS
240
AREA
9014
HEIGHT
4367
27-Jan-2023
11:55



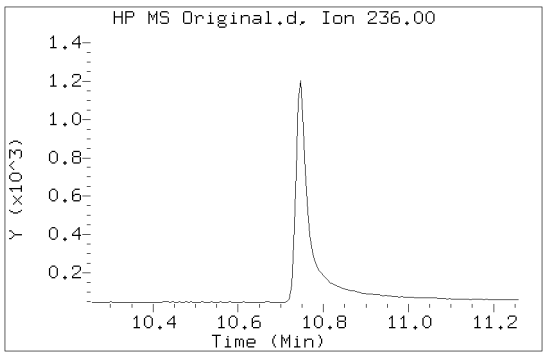
BEFORE
MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
17:20
ALSHS
Server



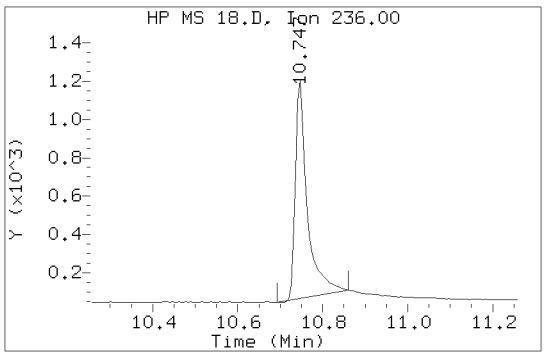
AFTER
MASS
120
AREA
950
HEIGHT
438
27-Jan-2023
11:55



BEFORE
MASS
236
AREA
0
HEIGHT
0
26-Jan-2023
17:20
ALSHS
Server



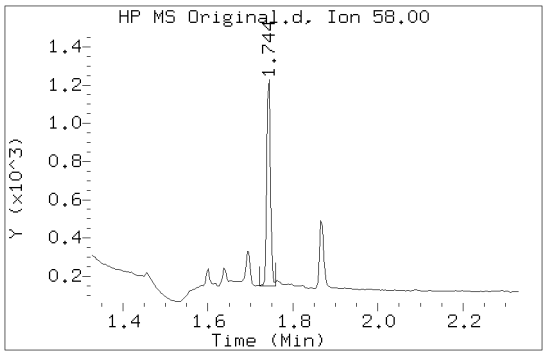
AFTER
MASS
236
AREA
2221
HEIGHT
1136
27-Jan-2023
11:55



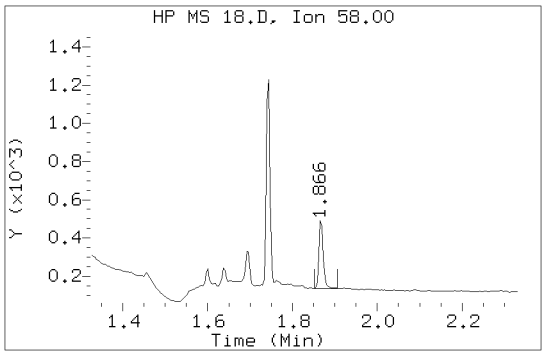
1,4-Dioxane ()

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



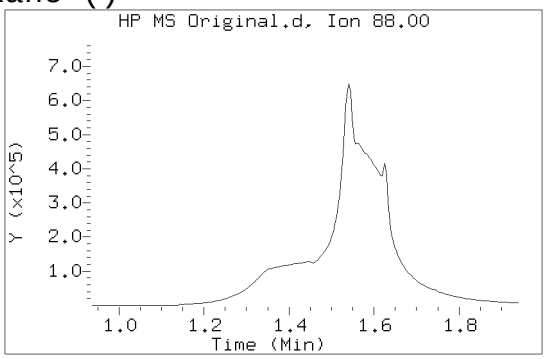
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.D
Inj Date : 26-JAN-2023 17:04
InstruID : SV6.i
LabSampID : 1 4-DX-0.01

1,4-Dioxane ()

Reason Code:

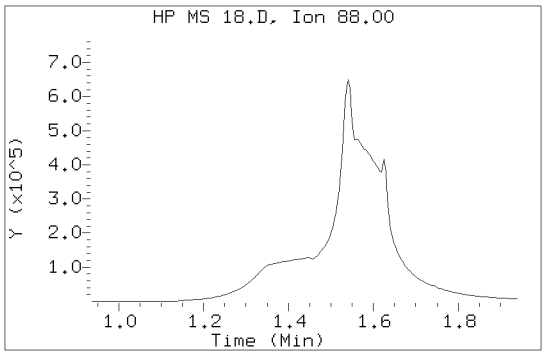
BEFORE

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

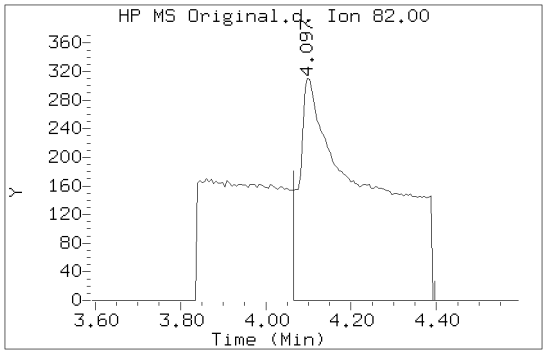


Nitrobenzene-d5 (4165-60-0)

Reason Code:

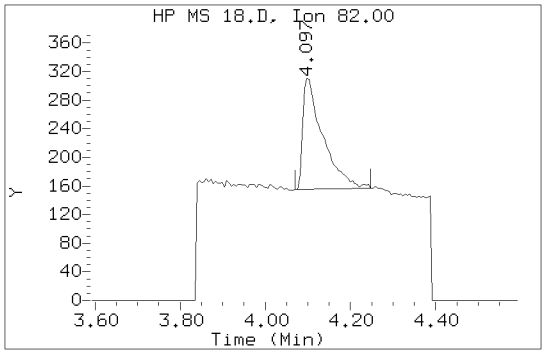
BEFORE

MASS
82
AREA
3499
HEIGHT
310
26-Jan-2023
17:20
ALSHS
Server



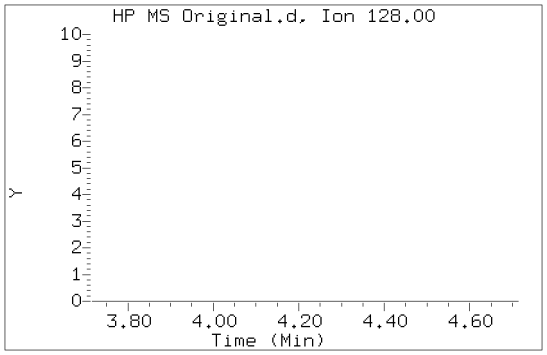
AFTER

MASS
82
AREA
510
HEIGHT
154
27-Jan-2023
11:55



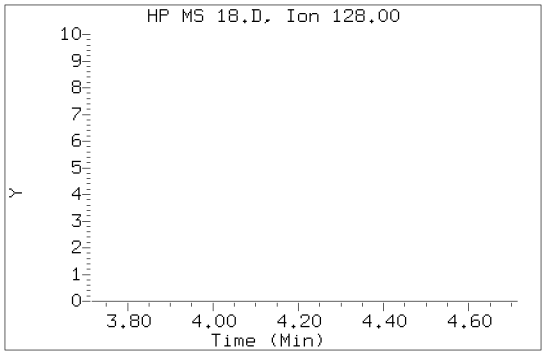
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
17:20
ALSHS
Server



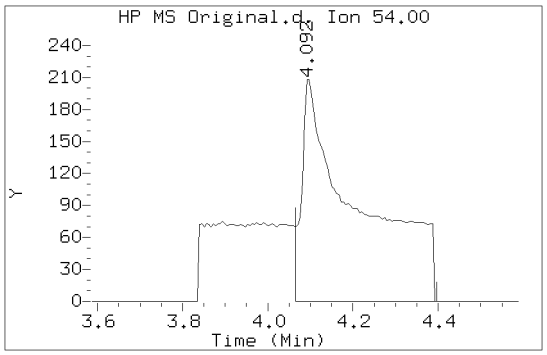
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



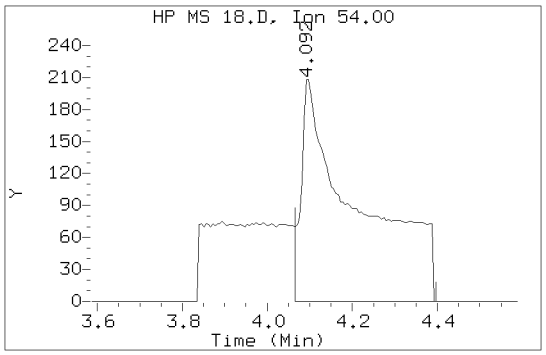
BEFORE

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



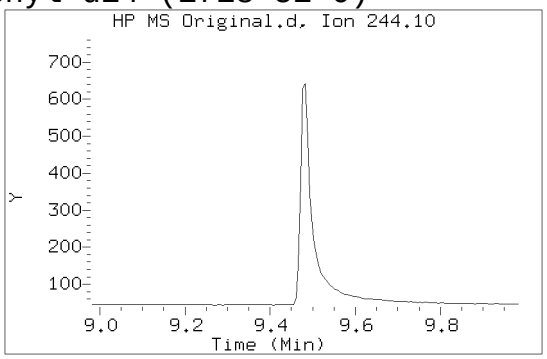
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.D
Inj Date : 26-JAN-2023 17:04
InstruID : SV6.i
LabSampID : 1 4-DX-0.01

4-Terphenyl-d14 (1718-51-0)

Reason Code:

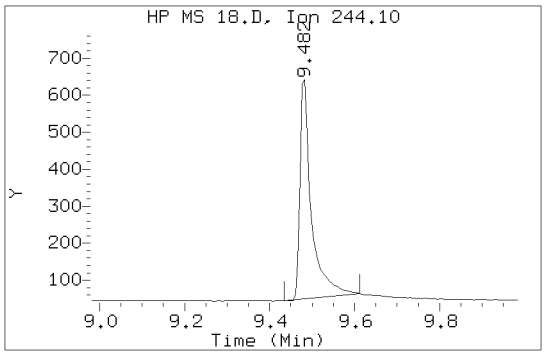
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
26-Jan-2023
17:20
ALSHS
Server



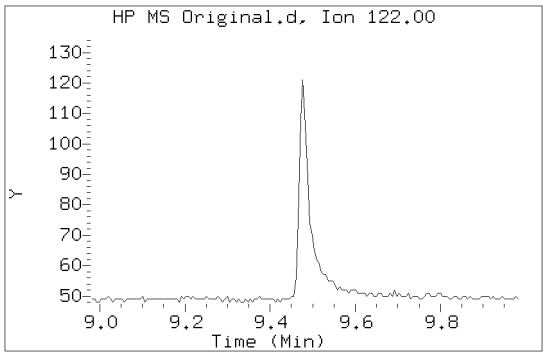
AFTER

MASS
244.1
AREA
1097
HEIGHT
592
27-Jan-2023
11:55



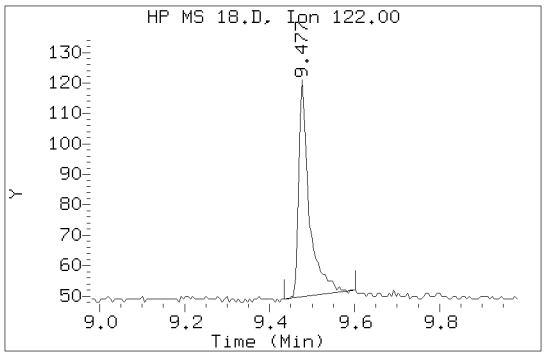
BEFORE

MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
17:20
ALSHS
Server



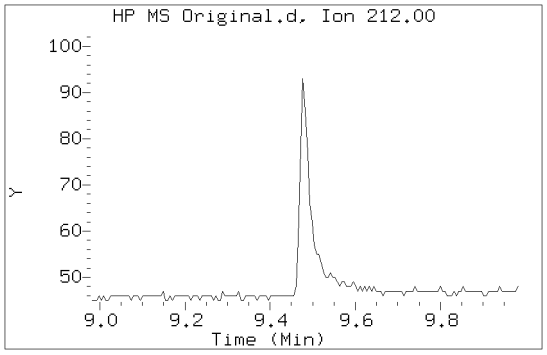
AFTER

MASS
122
AREA
121
HEIGHT
71
27-Jan-2023
11:55



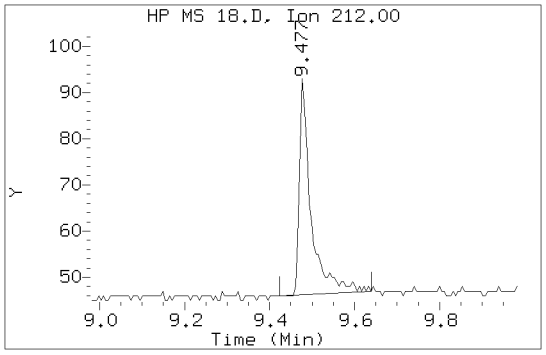
BEFORE

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

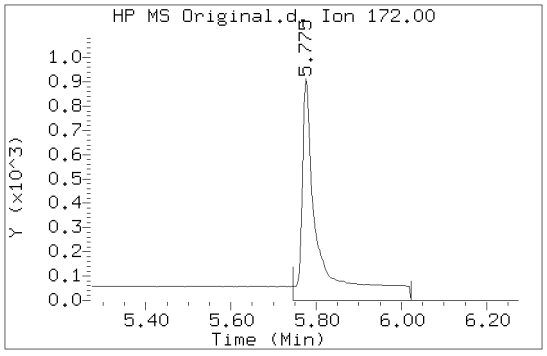


2-Fluorobiphenyl (321-60-8)

Reason Code:

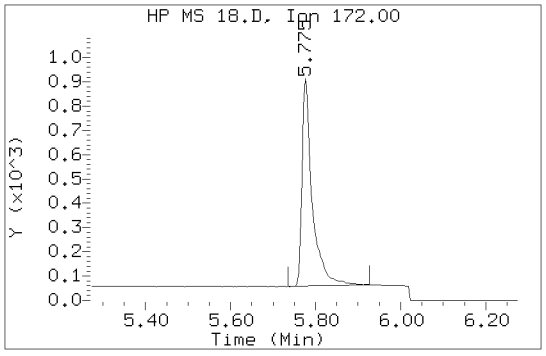
BEFORE

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



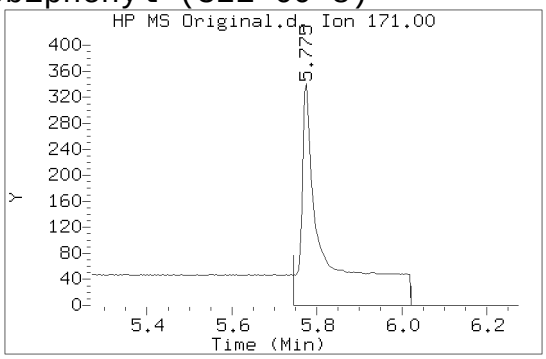
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\18.D
Inj Date : 26-JAN-2023 17:04
InstruID : SV6.i
LabSampID : 1 4-DX-0.01

2-Fluorobiphenyl (321-60-8)

Reason Code:

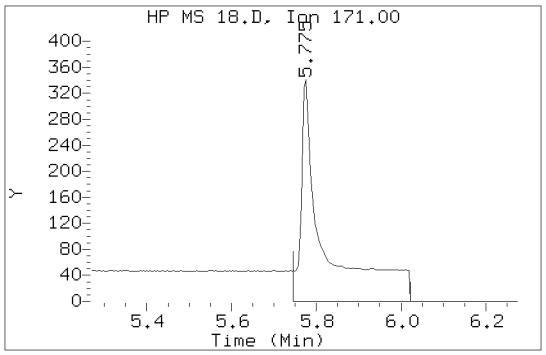
BEFORE

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.

01185551

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

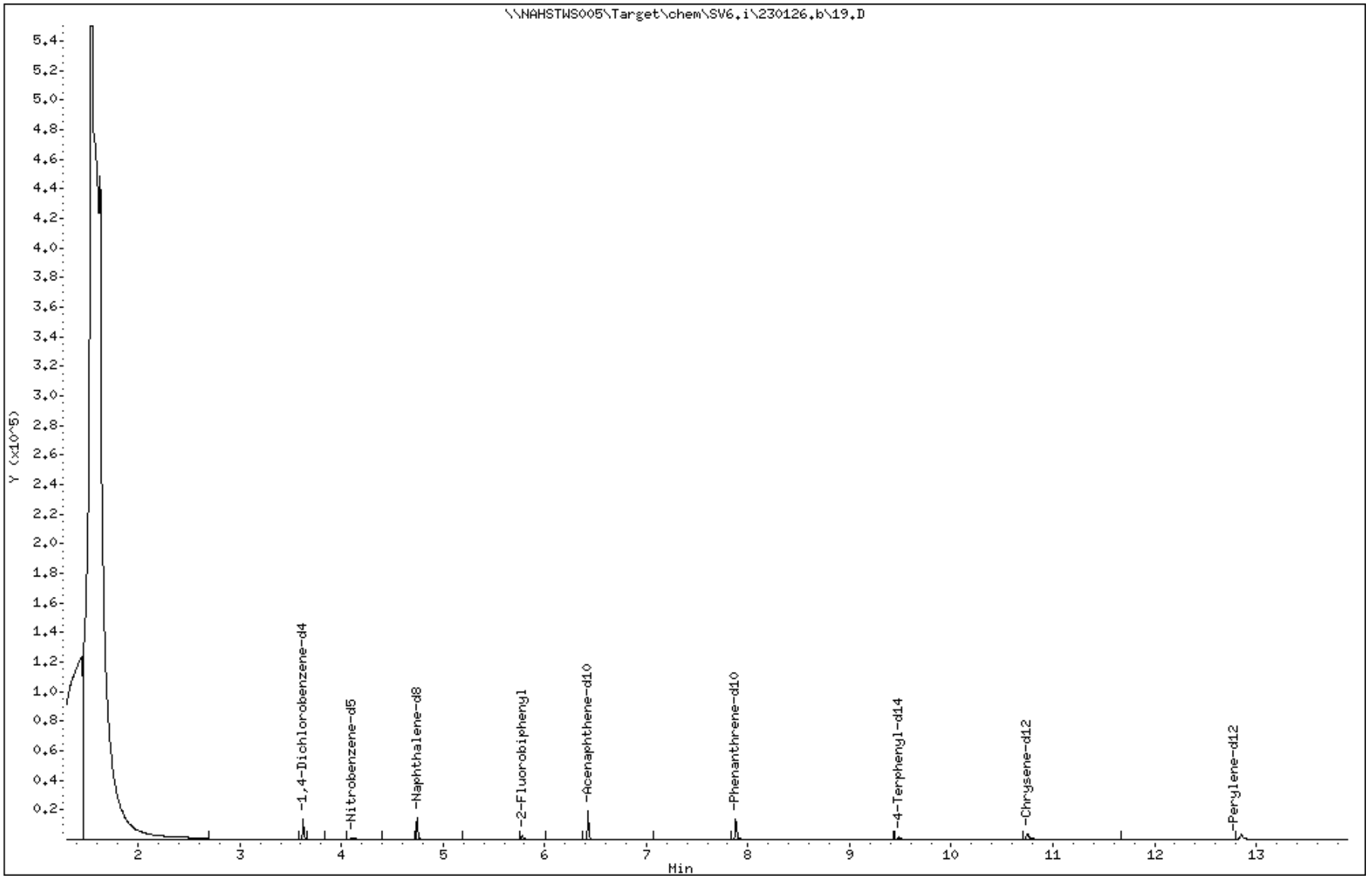
Sample Info: 1 4-DX-0.03;1 4-DX-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

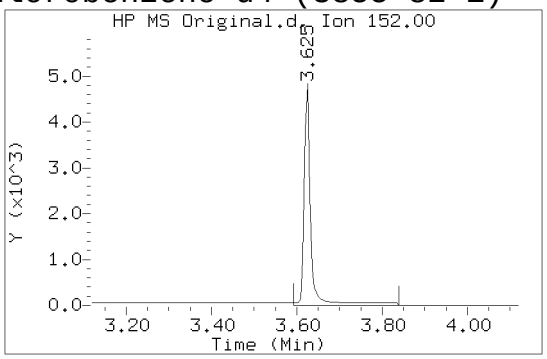


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D
Inj Date : 26-JAN-2023 17:22
InstruID : SV6.i
LabSampID : 1 4-DX-0.03

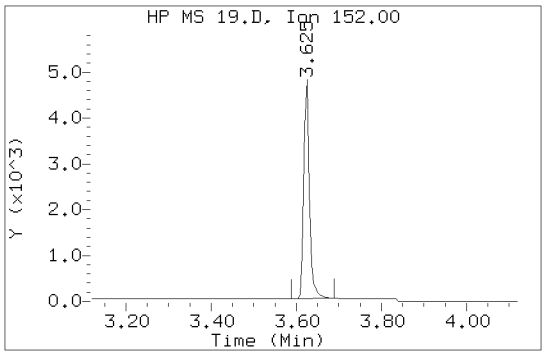
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

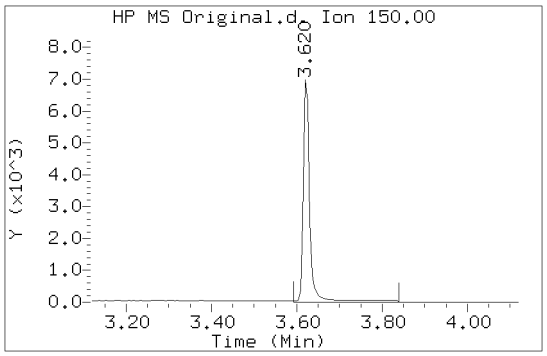
BEFORE
MASS
152
AREA
5196
HEIGHT
4837
26-Jan-2023
17:37
ALSHS
Server



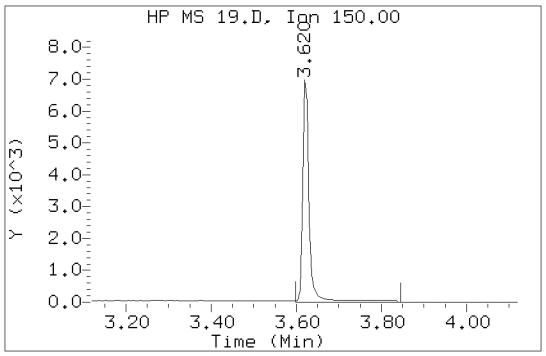
AFTER
MASS
152
AREA
4353
HEIGHT
4780
27-Jan-2023
11:55



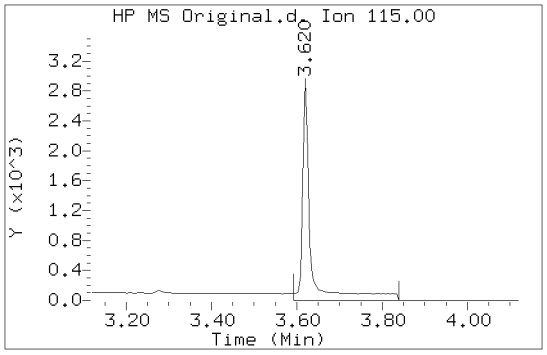
BEFORE
MASS
150
AREA
7408
HEIGHT
6977
26-Jan-2023
17:37
ALSHS
Server



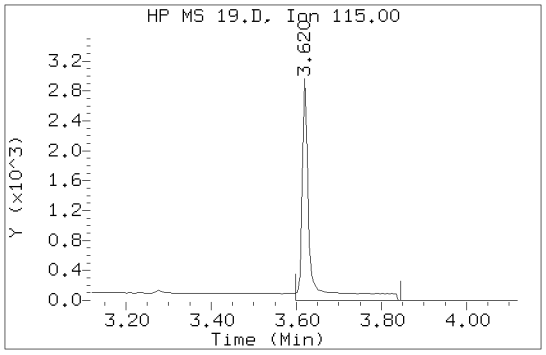
AFTER
MASS
150
AREA
7392
HEIGHT
6977
27-Jan-2023
11:55



BEFORE
MASS
115
AREA
3884
HEIGHT
2965
26-Jan-2023
17:37
ALSHS
Server



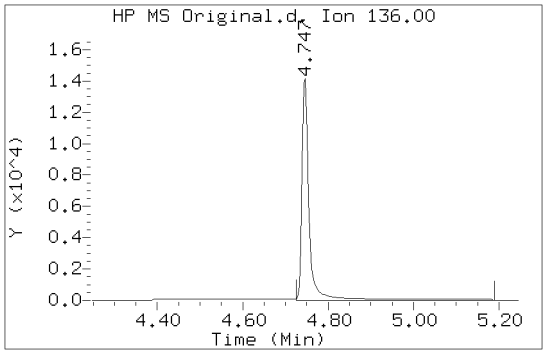
AFTER
MASS
115
AREA
3855
HEIGHT
2965
27-Jan-2023
11:55



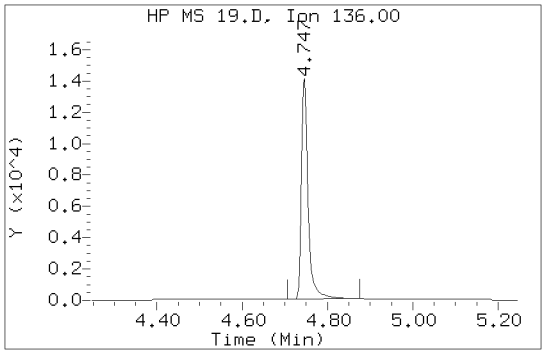
Naphthalene-d8 (1146-65-2)

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



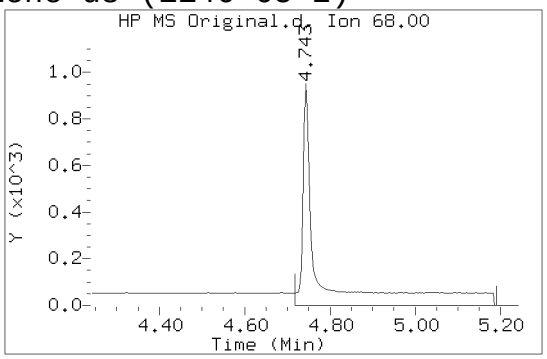
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D
Inj Date : 26-JAN-2023 17:22
InstruID : SV6.i
LabSampID : 1 4-DX-0.03

Naphthalene-d8 (1146-65-2)

Reason Code:

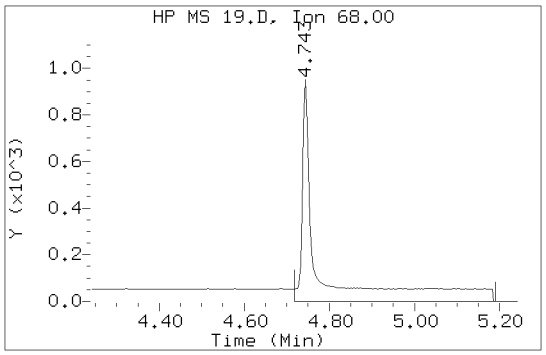
BEFORE

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

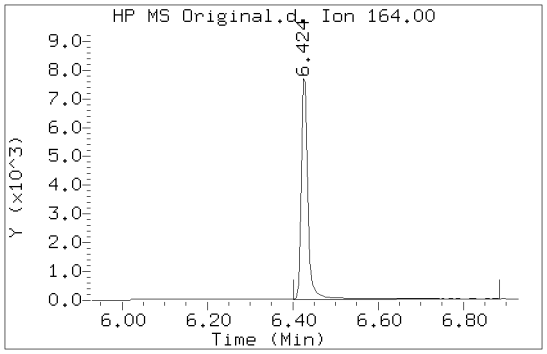


Acenaphthene-d10 (15067-26-2)

Reason Code:

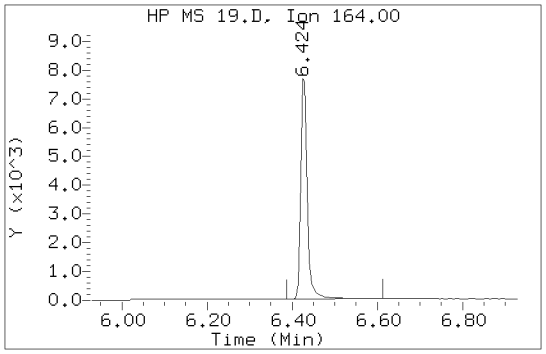
BEFORE

MASS
164
AREA
8776
HEIGHT
7674
26-Jan-2023
17:37
ALSHS
Server



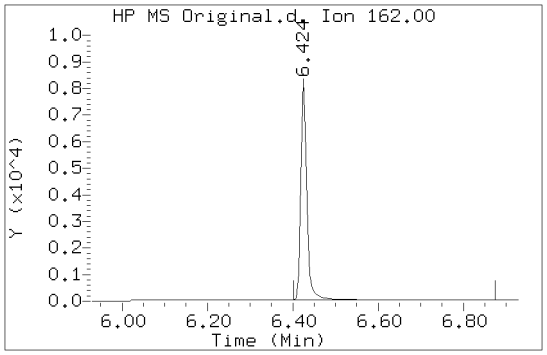
AFTER

MASS
164
AREA
8264
HEIGHT
7645
27-Jan-2023
11:55



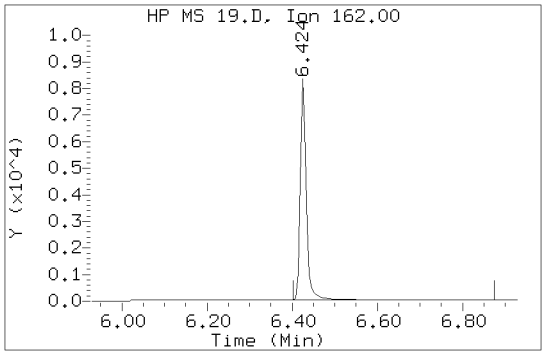
BEFORE

MASS
162
AREA
8262
HEIGHT
8311
26-Jan-2023
17:37
ALSHS
Server



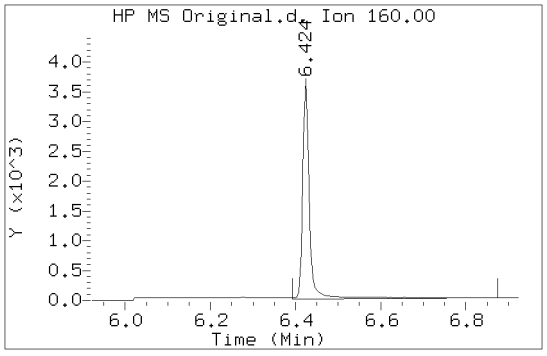
AFTER

MASS
162
AREA
8262
HEIGHT
8311
27-Jan-2023
11:55



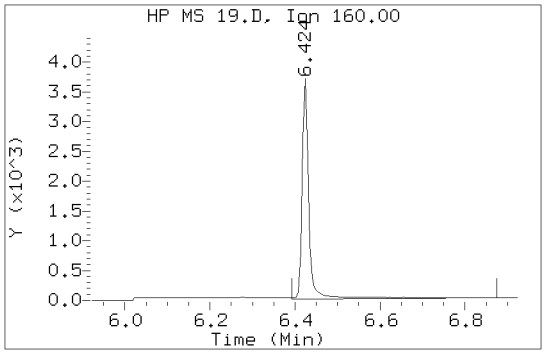
BEFORE

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



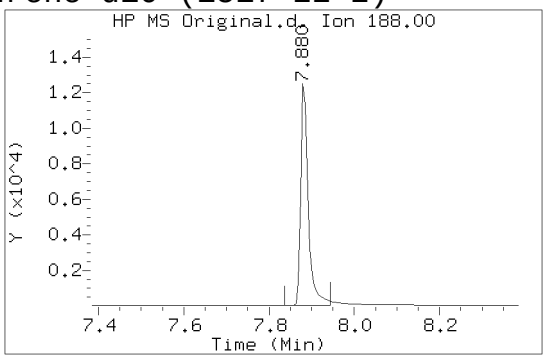
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D
Inj Date : 26-JAN-2023 17:22
InstruID : SV6.i
LabSampID : 1 4-DX-0.03

Phenanthrene-d10 (1517-22-2)

Reason Code:

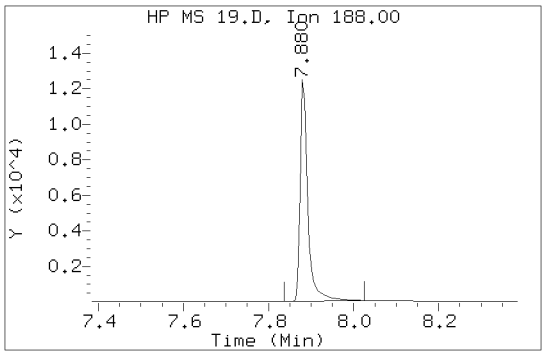
BEFORE

MASS
188
AREA
15125
HEIGHT
12466
26-Jan-2023
17:37
ALSHS
Server



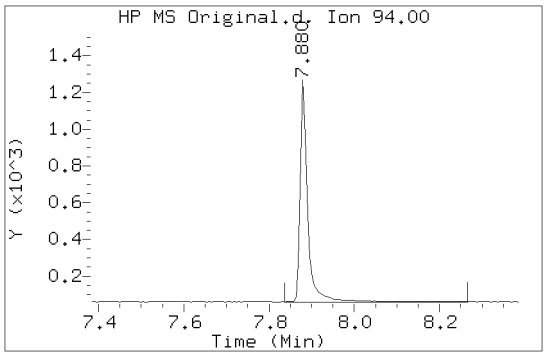
AFTER

MASS
188
AREA
15308
HEIGHT
12454
27-Jan-2023
11:55



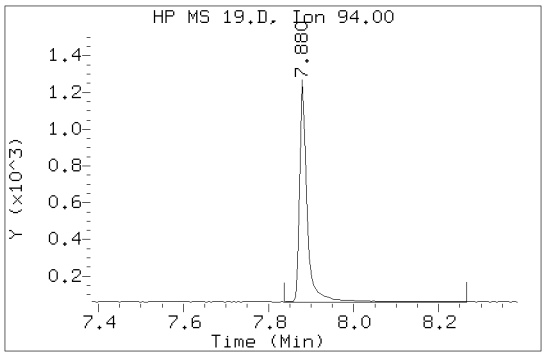
BEFORE

MASS
94
AREA
1509
HEIGHT
1209
26-Jan-2023
17:37
ALSHS
Server



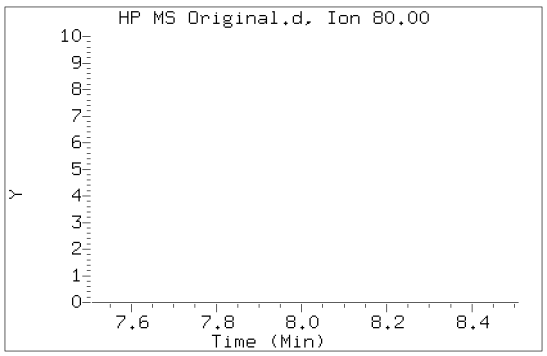
AFTER

MASS
94
AREA
1509
HEIGHT
1209
27-Jan-2023
11:55



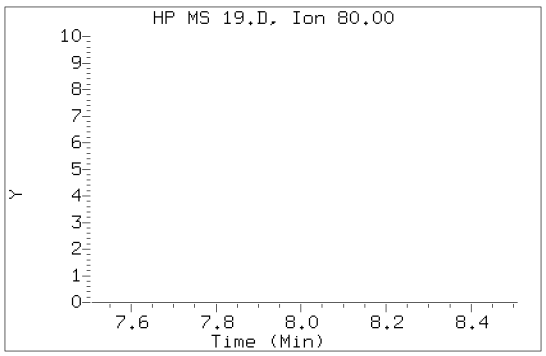
BEFORE

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

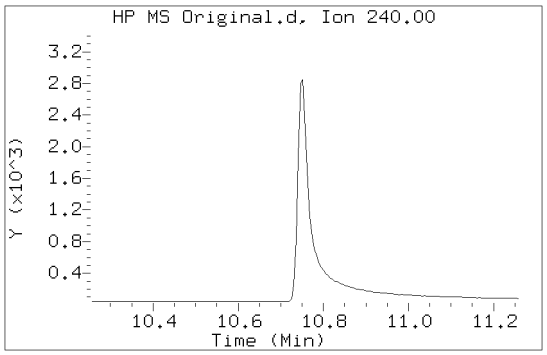


Chrysene-d12 (1719-03-5)

Reason Code:

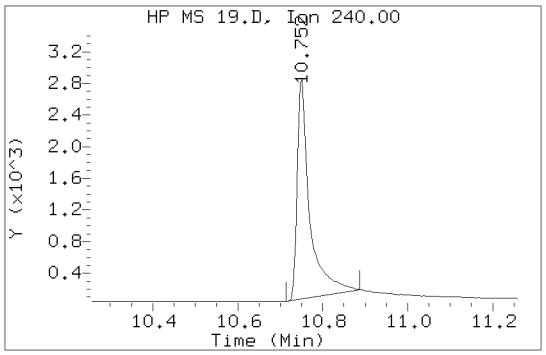
BEFORE

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

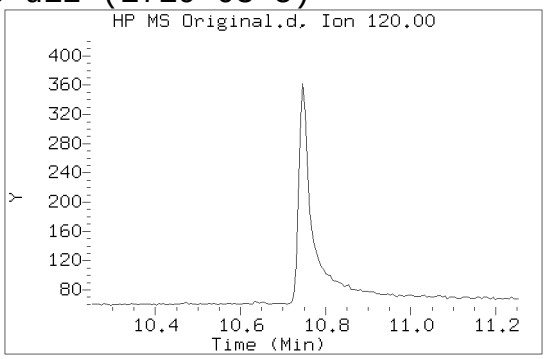


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D
Inj Date : 26-JAN-2023 17:22
InstruID : SV6.i
LabSampID : 1 4-DX-0.03

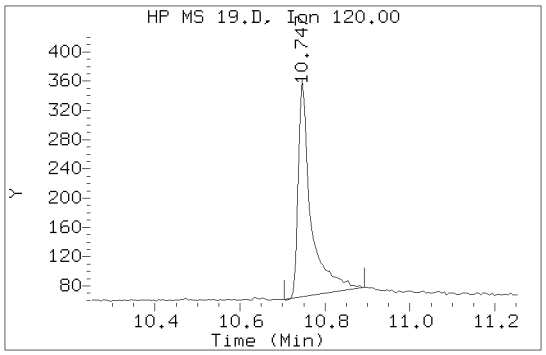
Chrysene-d12 (1719-03-5)

Reason Code:

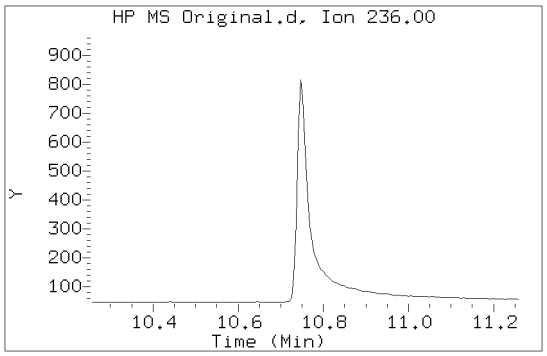
BEFORE
MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
17:37
ALSHS
Server



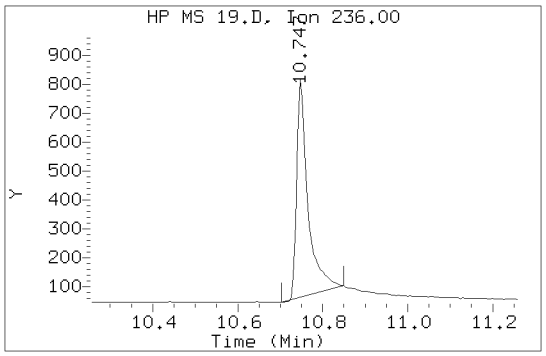
AFTER
MASS
120
AREA
608
HEIGHT
296
27-Jan-2023
11:55



BEFORE
MASS
236
AREA
0
HEIGHT
0
26-Jan-2023
17:37
ALSHS
Server



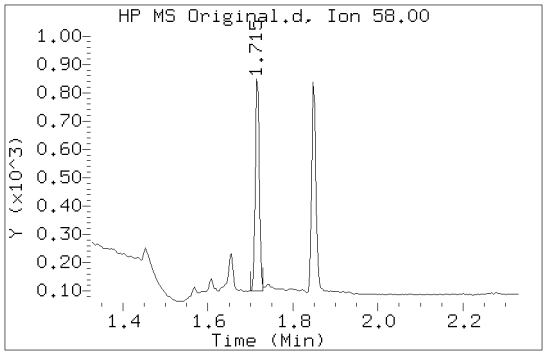
AFTER
MASS
236
AREA
1382
HEIGHT
752
27-Jan-2023
11:55



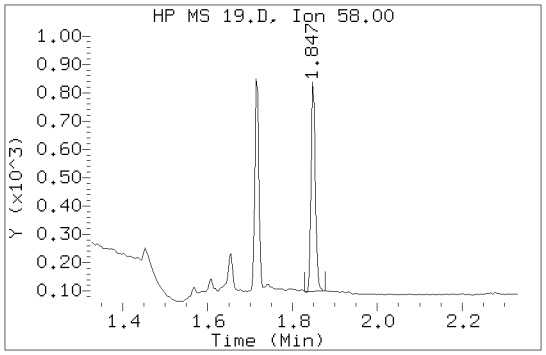
1,4-Dioxane ()

Reason Code:

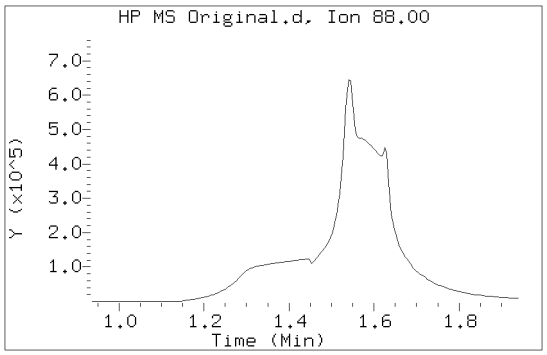
BEFORE
MASS
58
AREA
485
HEIGHT
748
26-Jan-2023
17:37
ALSHS
Server



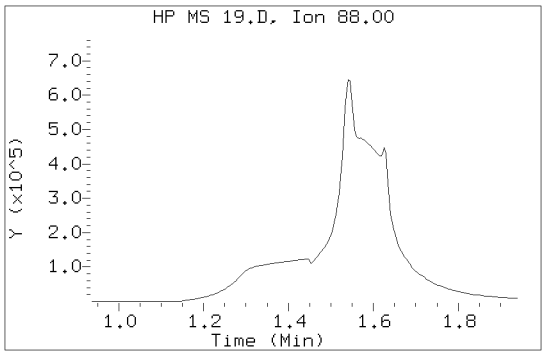
AFTER
MASS
58
AREA
502
HEIGHT
737
27-Jan-2023
11:55



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



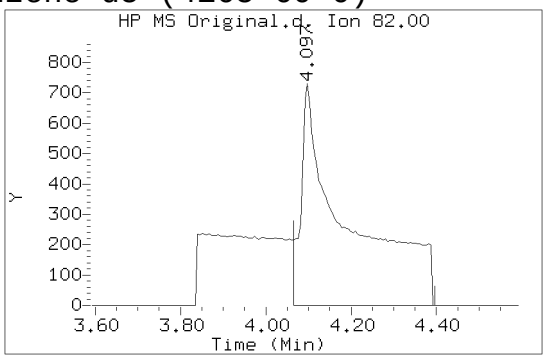
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D
Inj Date : 26-JAN-2023 17:22
InstruID : SV6.i
LabSampID : 1 4-DX-0.03

Nitrobenzene-d5 (4165-60-0)

Reason Code:

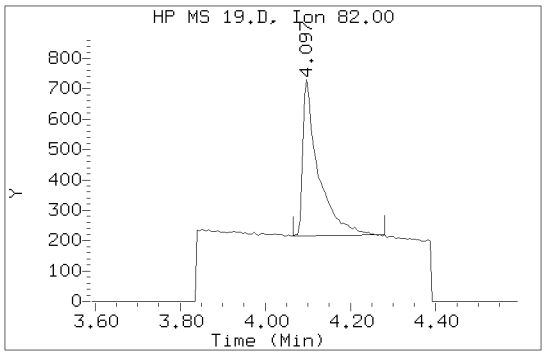
BEFORE

MASS
82
AREA
5467
HEIGHT
730
26-Jan-2023
17:37
ALSHS
Server



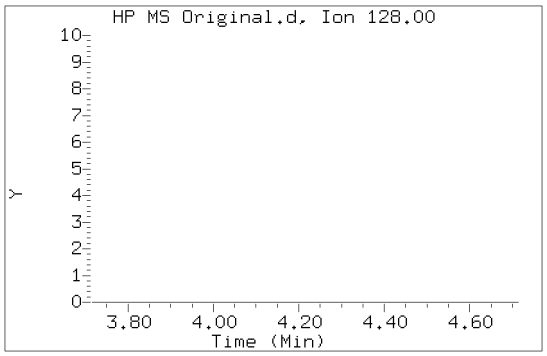
AFTER

MASS
82
AREA
1295
HEIGHT
513
27-Jan-2023
11:55



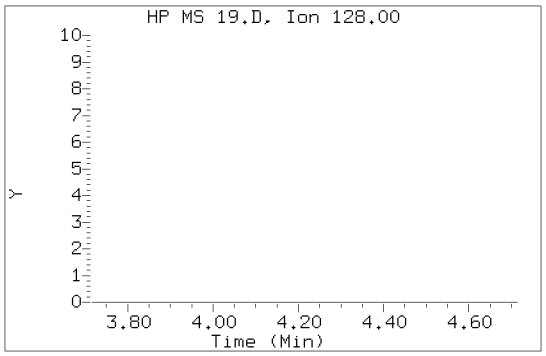
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
17:37
ALSHS
Server



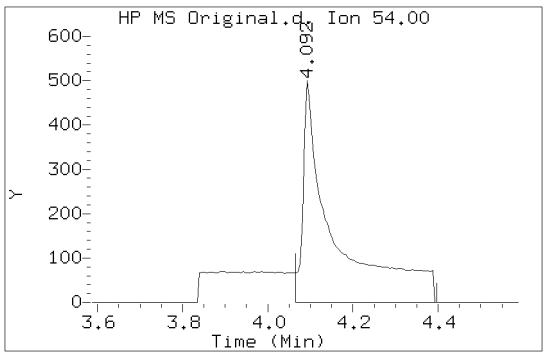
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



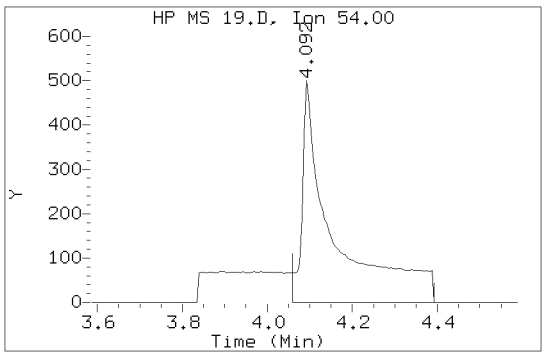
BEFORE

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

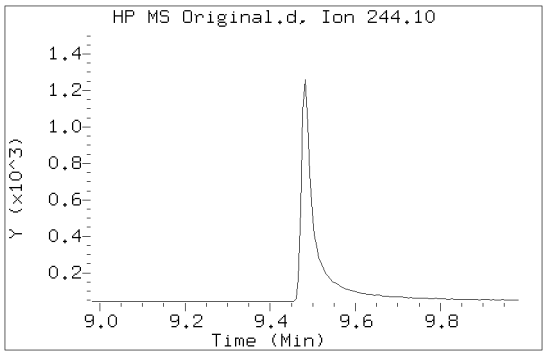


4-Terphenyl-d14 (1718-51-0)

Reason Code:

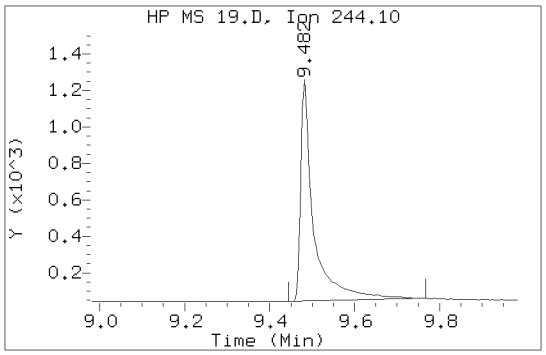
BEFORE

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

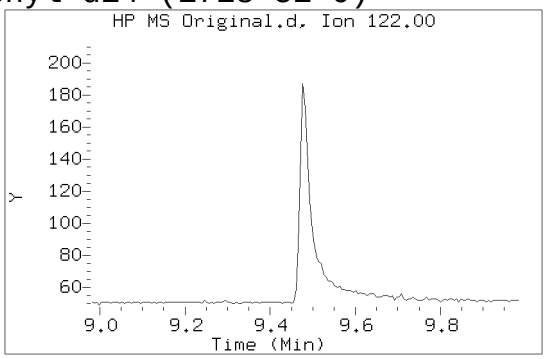


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\19.D
Inj Date : 26-JAN-2023 17:22
InstruID : SV6.i
LabSampID : 1 4-DX-0.03

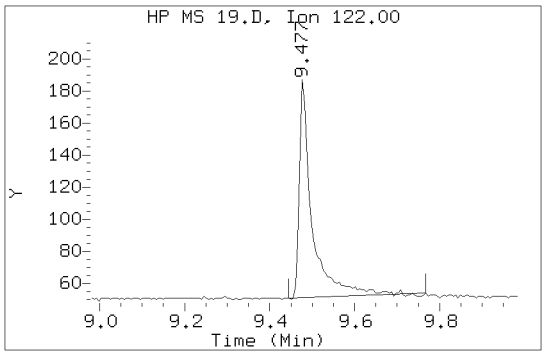
4-Terphenyl-d14 (1718-51-0)

Reason Code:

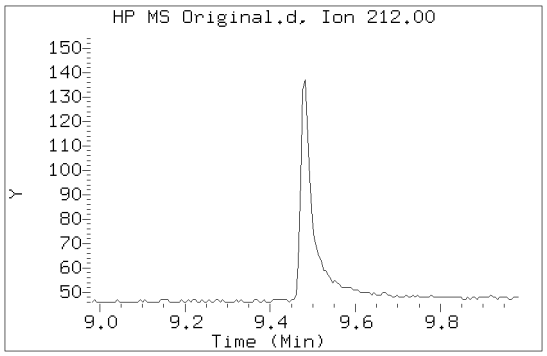
BEFORE
MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
17:37
ALSHS
Server



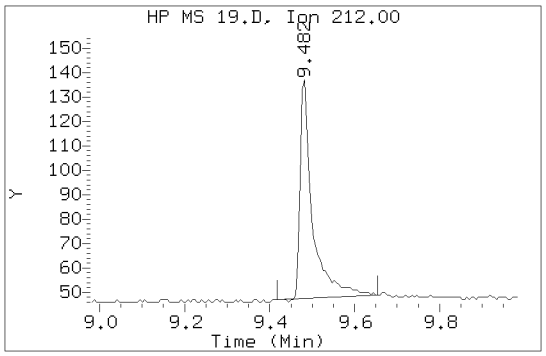
AFTER
MASS
122
AREA
277
HEIGHT
135
27-Jan-2023
11:55



BEFORE
MASS
212
AREA
0
HEIGHT
0
26-Jan-2023
17:37
ALSHS
Server



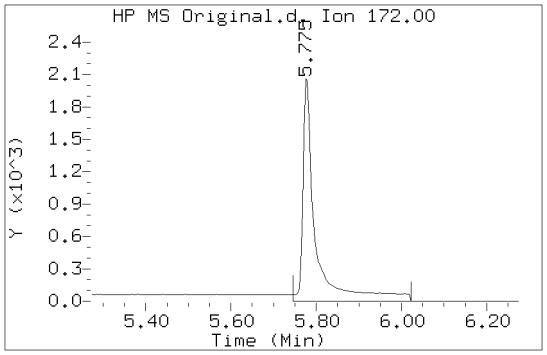
AFTER
MASS
212
AREA
180
HEIGHT
89
27-Jan-2023
11:55



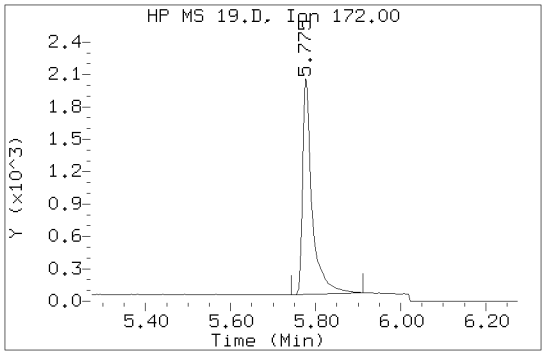
2-Fluorobiphenyl (321-60-8)

Reason Code:

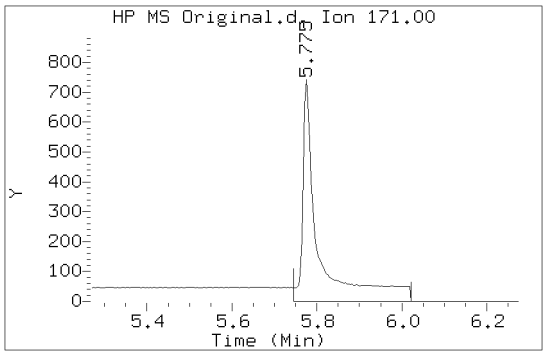
BEFORE
MASS
172
AREA
4259
HEIGHT
2059
26-Jan-2023
17:37
ALSHS
Server



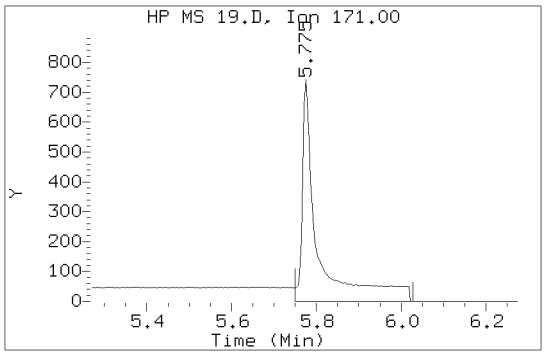
AFTER
MASS
172
AREA
3097
HEIGHT
1996
27-Jan-2023
11:55



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)	AMOUNTS 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.

01185559

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

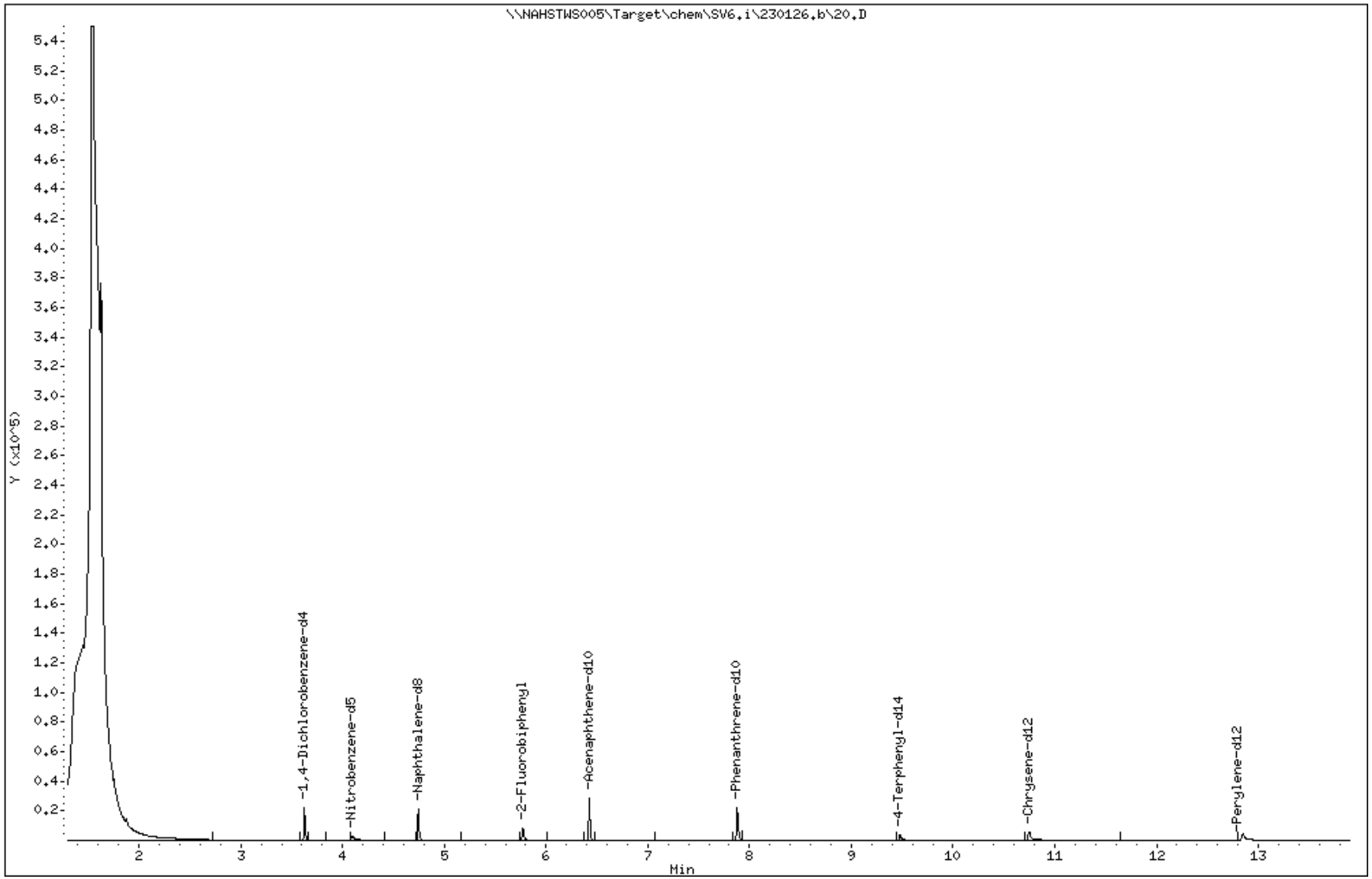
Sample Info: 1 4-DX-0.05;1 4-DX-0.05

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

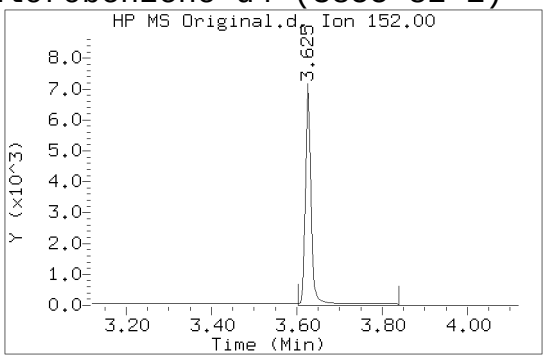


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D
Inj Date : 26-JAN-2023 17:40
InstruID : SV6.i
LabSampID : 1 4-DX-0.05

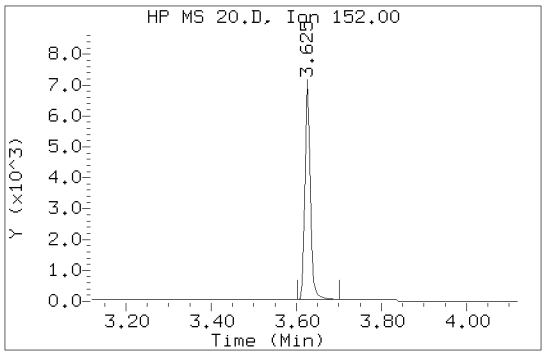
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

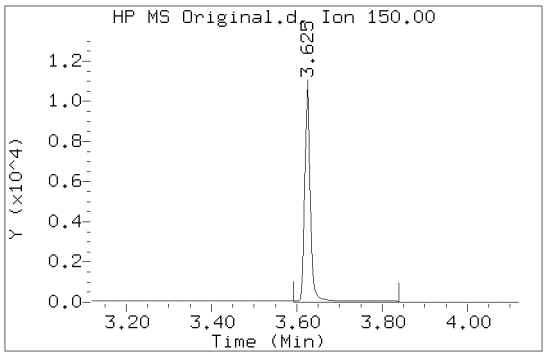
BEFORE
MASS
152
AREA
7036
HEIGHT
7174
26-Jan-2023
17:55
ALSHS
Server



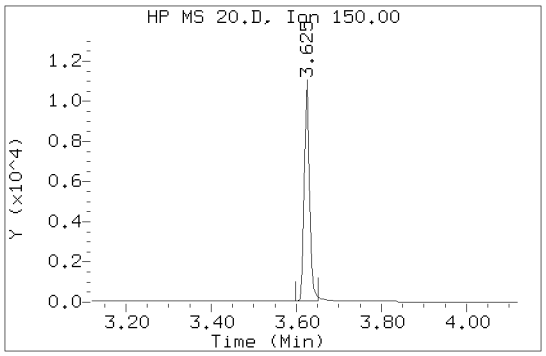
AFTER
MASS
152
AREA
6207
HEIGHT
7117
27-Jan-2023
11:55



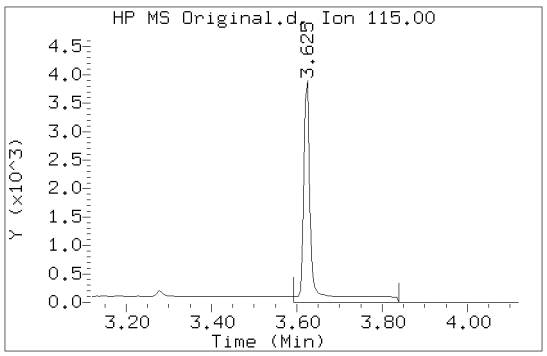
BEFORE
MASS
150
AREA
10220
HEIGHT
11063
26-Jan-2023
17:55
ALSHS
Server



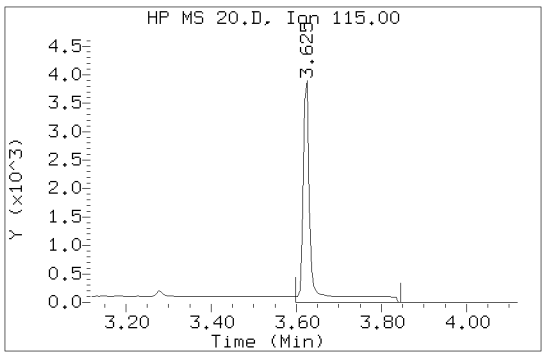
AFTER
MASS
150
AREA
9269
HEIGHT
11013
27-Jan-2023
11:55



BEFORE
MASS
115
AREA
5002
HEIGHT
3896
26-Jan-2023
17:55
ALSHS
Server



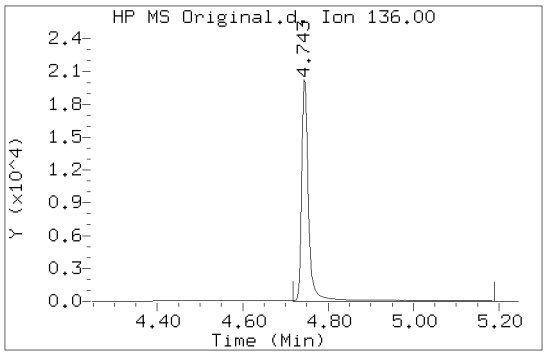
AFTER
MASS
115
AREA
4971
HEIGHT
3896
27-Jan-2023
11:55



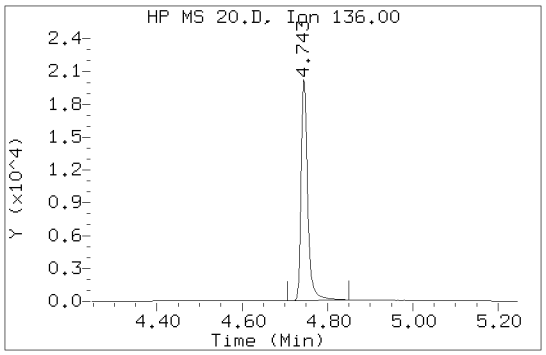
Naphthalene-d8 (1146-65-2)

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



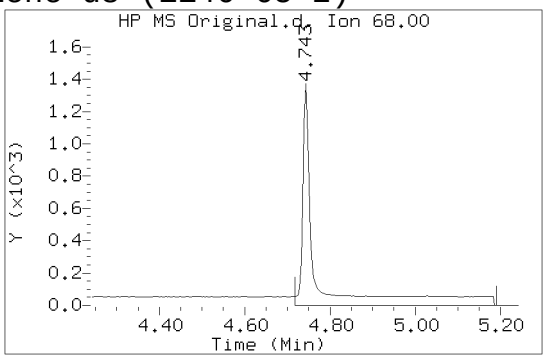
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D
Inj Date : 26-JAN-2023 17:40
InstruID : SV6.i
LabSampID : 1 4-DX-0.05

Naphthalene-d8 (1146-65-2)

Reason Code:

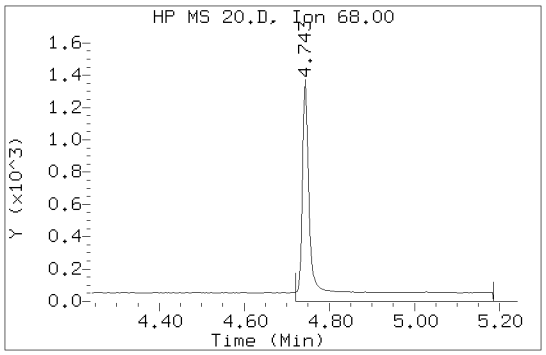
BEFORE

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

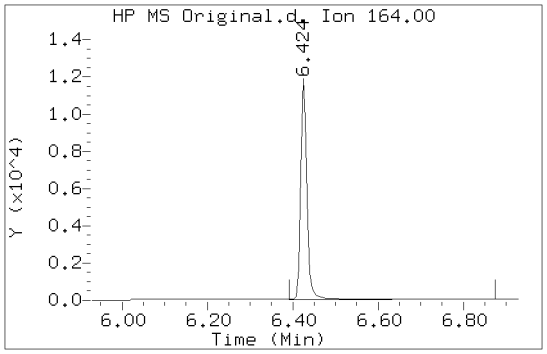


Acenaphthene-d10 (15067-26-2)

Reason Code:

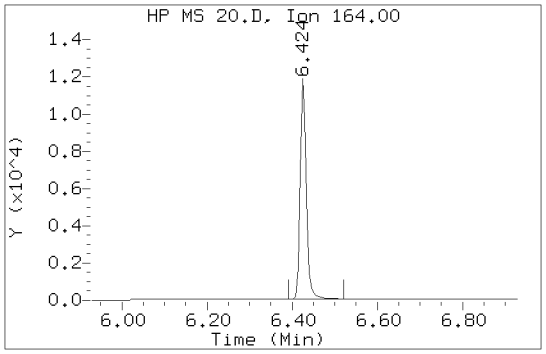
BEFORE

MASS
164
AREA
12674
HEIGHT
11880
26-Jan-2023
17:55
ALSHS
Server



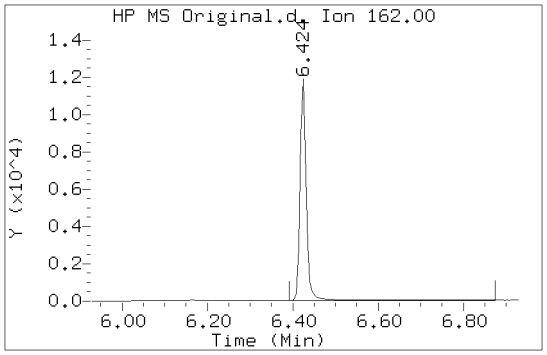
AFTER

MASS
164
AREA
12005
HEIGHT
11845
27-Jan-2023
11:55



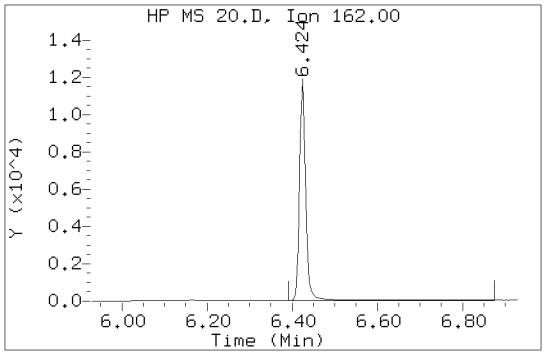
BEFORE

MASS
162
AREA
12561
HEIGHT
11898
26-Jan-2023
17:55
ALSHS
Server



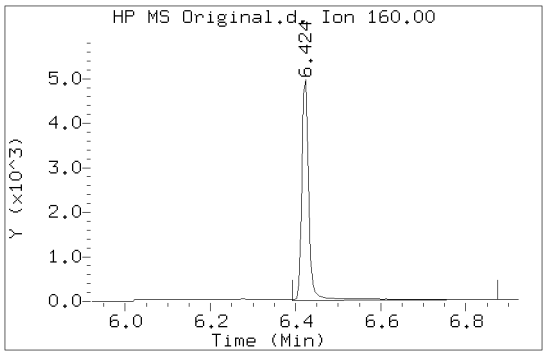
AFTER

MASS
162
AREA
12561
HEIGHT
11898
27-Jan-2023
11:55



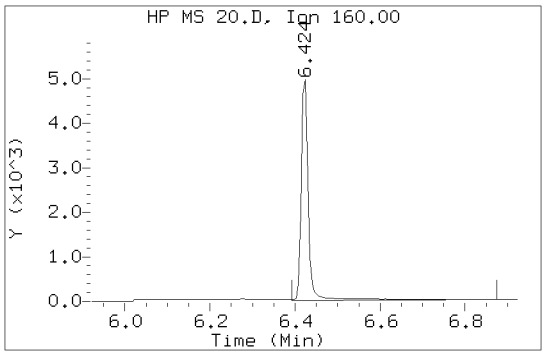
BEFORE

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



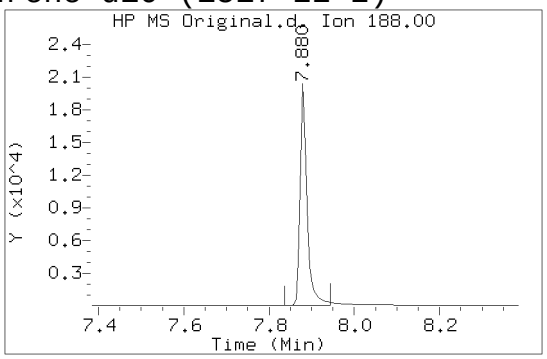
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D
Inj Date : 26-JAN-2023 17:40
InstruID : SV6.i
LabSampID : 1 4-DX-0.05

Phenanthrene-d10 (1517-22-2)

Reason Code:

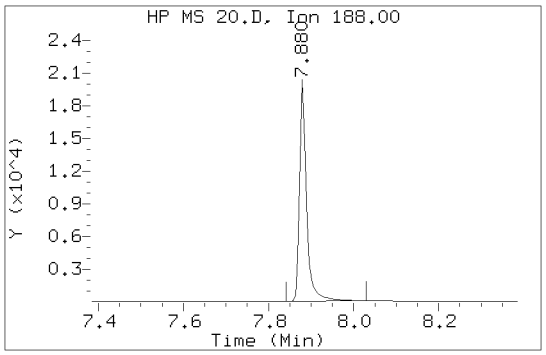
BEFORE

MASS
188
AREA
22670
HEIGHT
20338
26-Jan-2023
17:55
ALSHS
Server



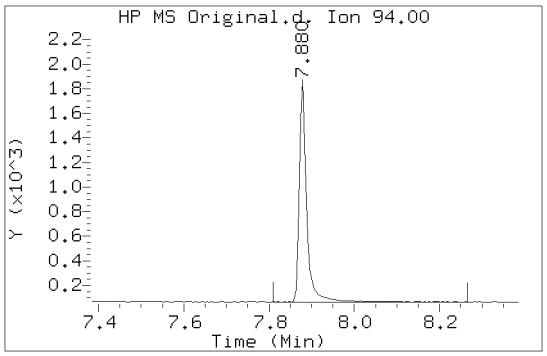
AFTER

MASS
188
AREA
22930
HEIGHT
20327
27-Jan-2023
11:55



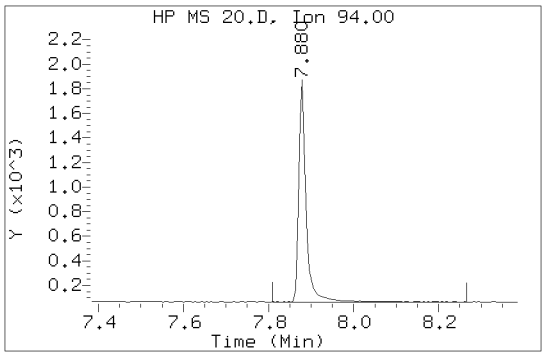
BEFORE

MASS
94
AREA
2147
HEIGHT
1806
26-Jan-2023
17:55
ALSHS
Server



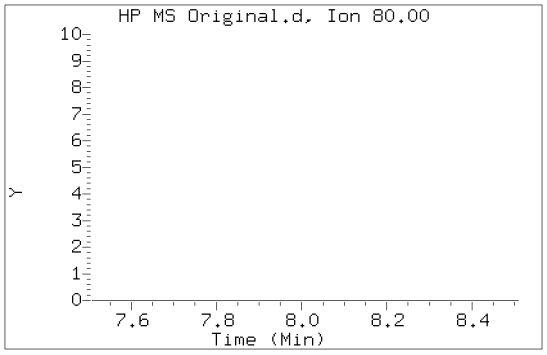
AFTER

MASS
94
AREA
2147
HEIGHT
1806
27-Jan-2023
11:55



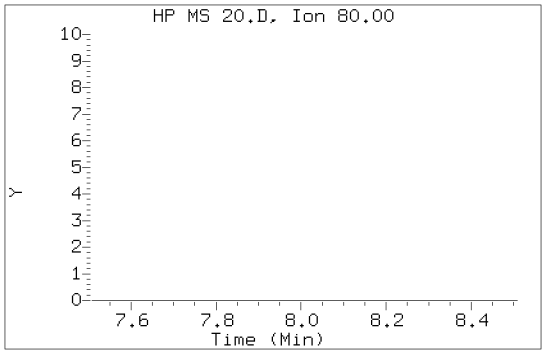
BEFORE

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

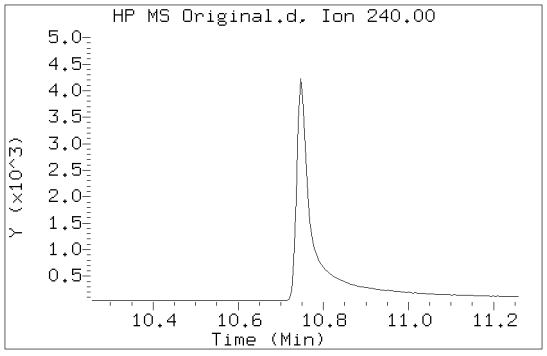


Chrysene-d12 (1719-03-5)

Reason Code:

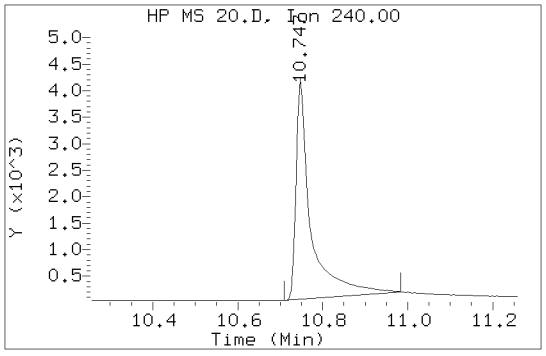
BEFORE

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



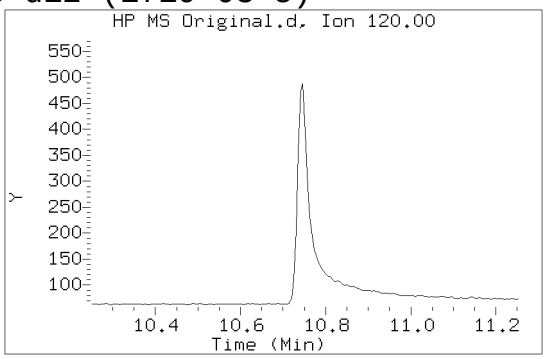
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D
Inj Date : 26-JAN-2023 17:40
InstruID : SV6.i
LabSampID : 1 4-DX-0.05

Chrysene-d12 (1719-03-5)

Reason Code:

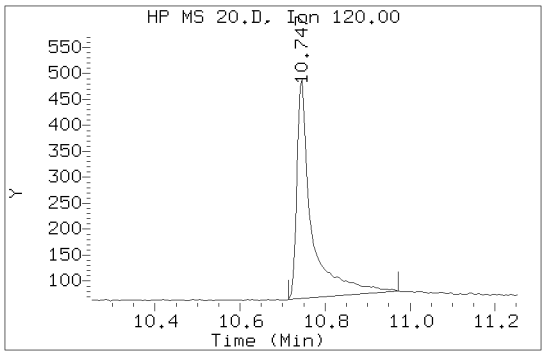
BEFORE

MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
17:55
ALSHS
Server



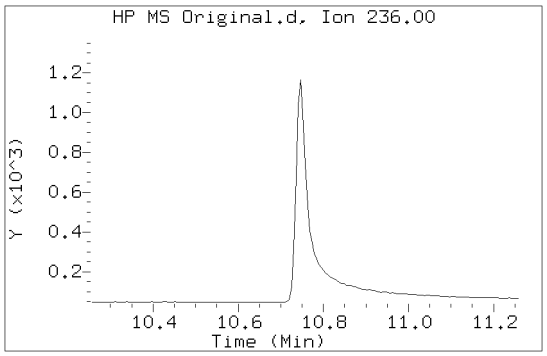
AFTER

MASS
120
AREA
1018
HEIGHT
420
27-Jan-2023
11:55



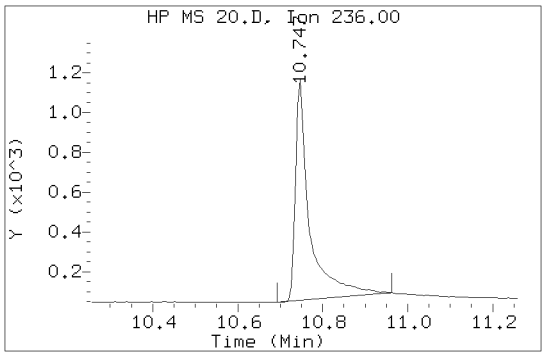
BEFORE

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

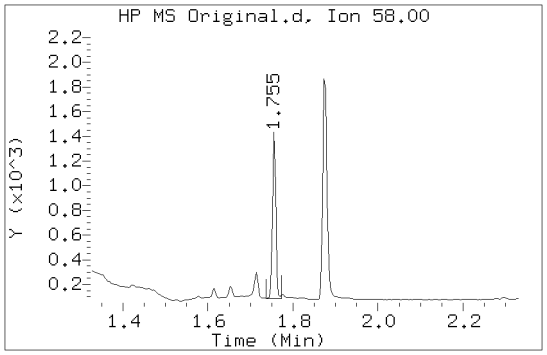


1,4-Dioxane ()

Reason Code:

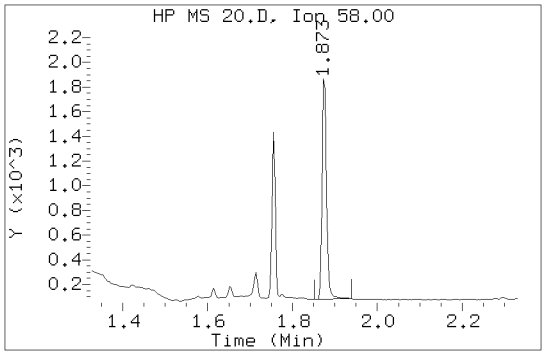
BEFORE

MASS
58
AREA
732
HEIGHT
1346
26-Jan-2023
17:55
ALSHS
Server



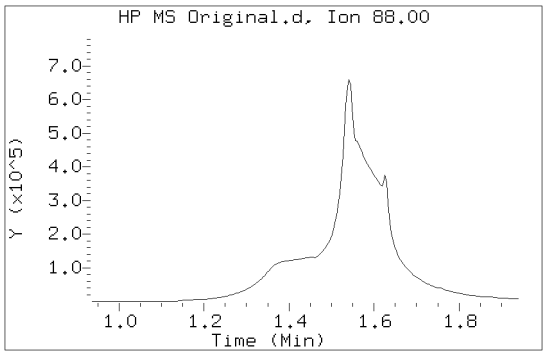
AFTER

MASS
58
AREA
1266
HEIGHT
1783
27-Jan-2023
11:55



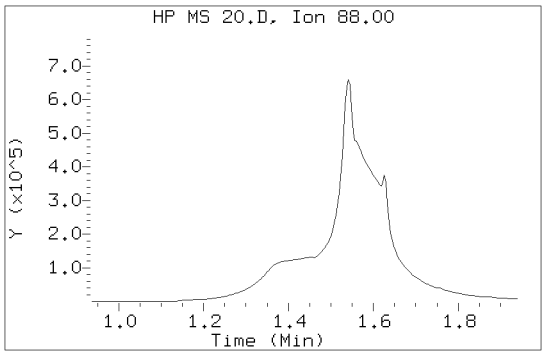
BEFORE

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



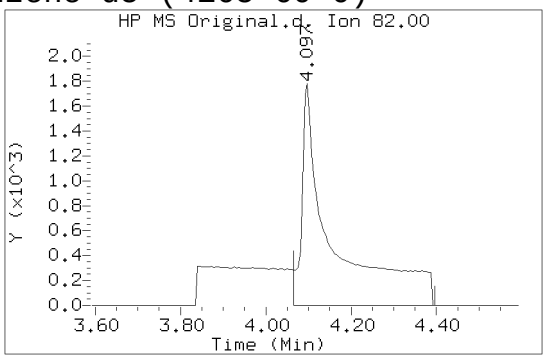
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D
Inj Date : 26-JAN-2023 17:40
InstruID : SV6.i
LabSampID : 1 4-DX-0.05

Nitrobenzene-d5 (4165-60-0)

Reason Code:

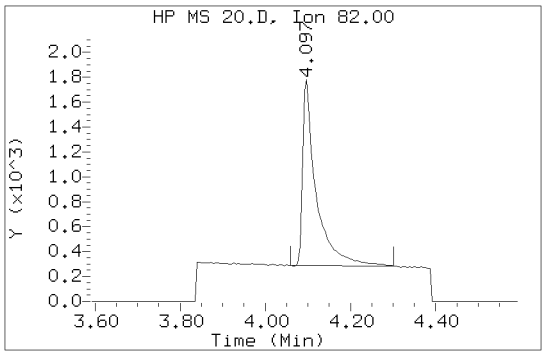
BEFORE

MASS
82
AREA
8797
HEIGHT
1780
26-Jan-2023
17:55
ALSHS
Server



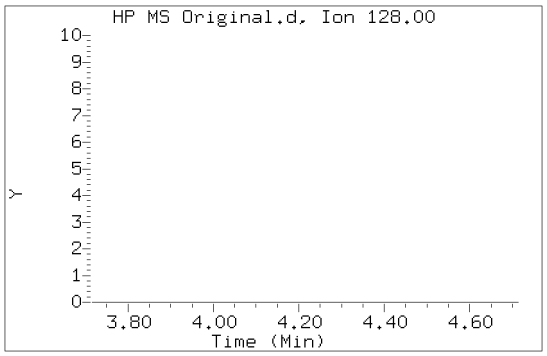
AFTER

MASS
82
AREA
3292
HEIGHT
1493
27-Jan-2023
11:55



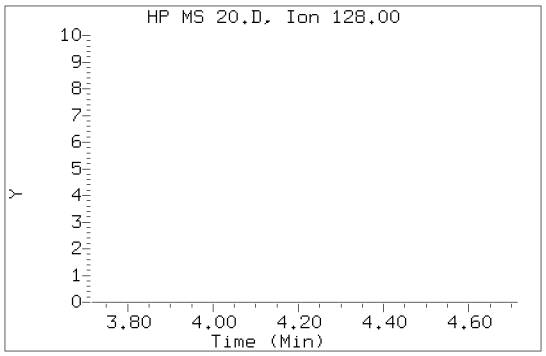
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
17:55
ALSHS
Server



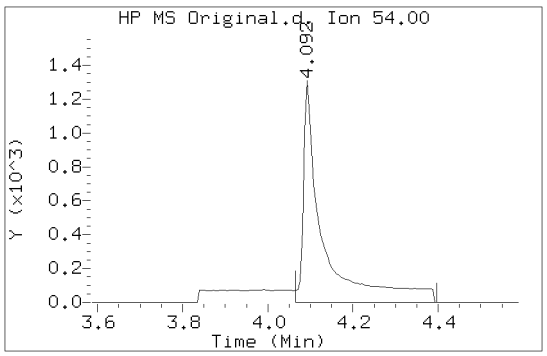
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



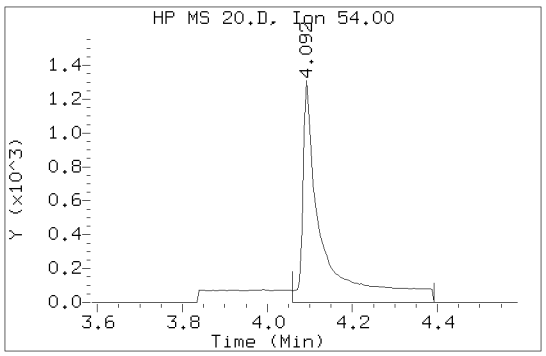
BEFORE

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

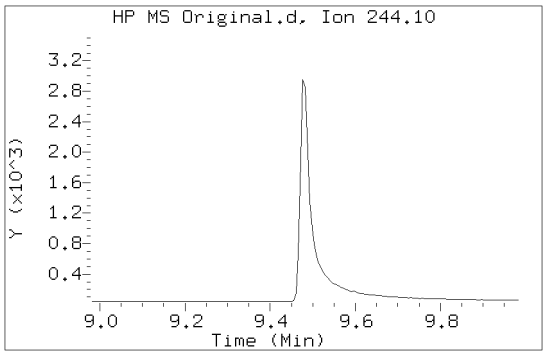


4-Terphenyl-d14 (1718-51-0)

Reason Code:

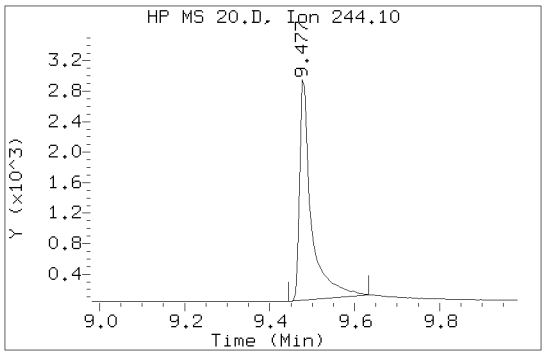
BEFORE

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



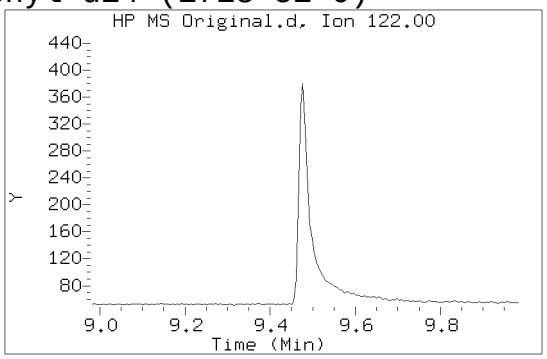
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\20.D
Inj Date : 26-JAN-2023 17:40
InstruID : SV6.i
LabSampID : 1 4-DX-0.05

4-Terphenyl-d14 (1718-51-0)

Reason Code:

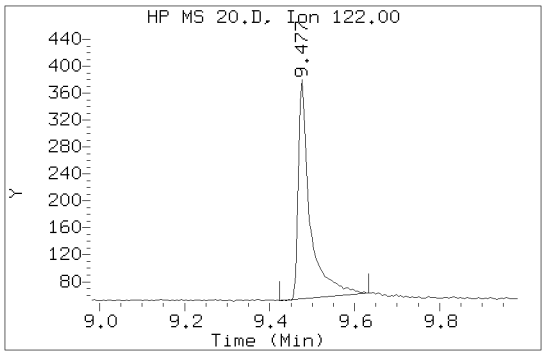
BEFORE

MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
17:55
ALSHS
Server



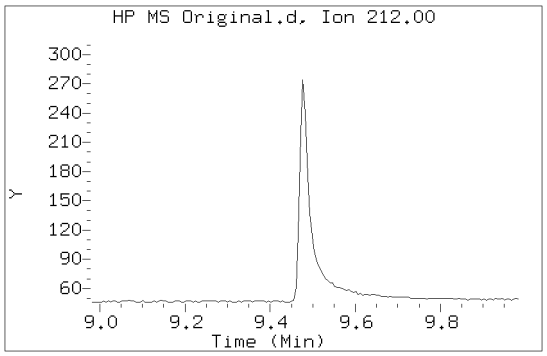
AFTER

MASS
122
AREA
621
HEIGHT
325
27-Jan-2023
11:55



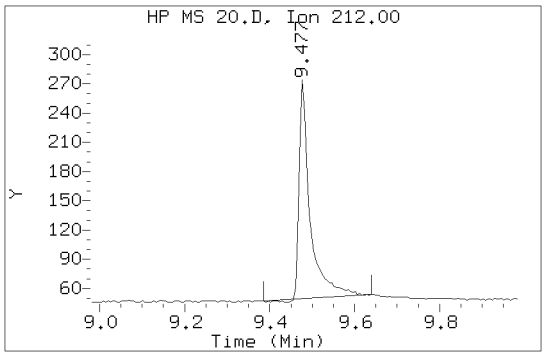
BEFORE

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

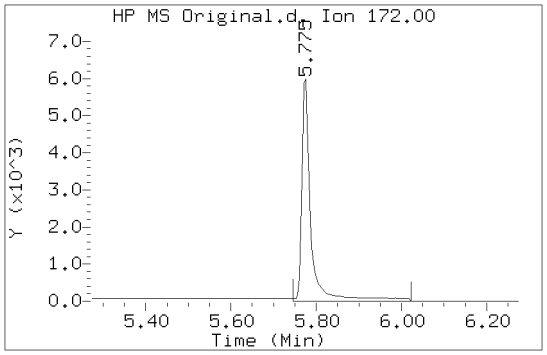


2-Fluorobiphenyl (321-60-8)

Reason Code:

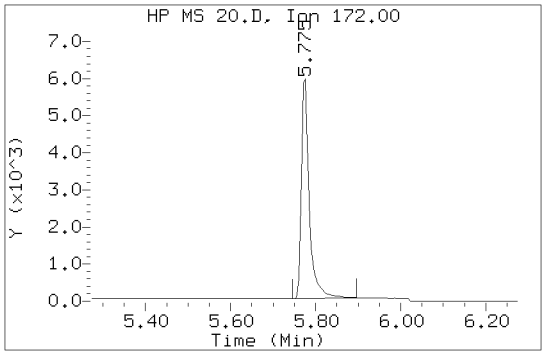
BEFORE

MASS
172
AREA
8878
HEIGHT
5991
26-Jan-2023
17:55
ALSHS
Server



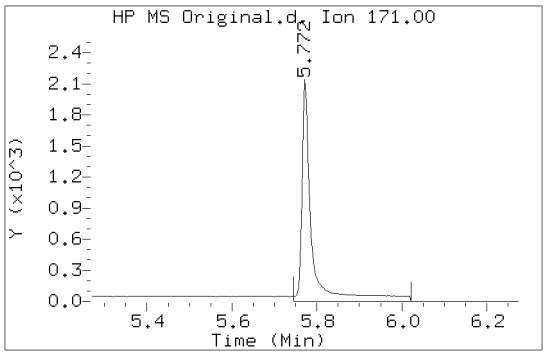
AFTER

MASS
172
AREA
7569
HEIGHT
5923
27-Jan-2023
11:55



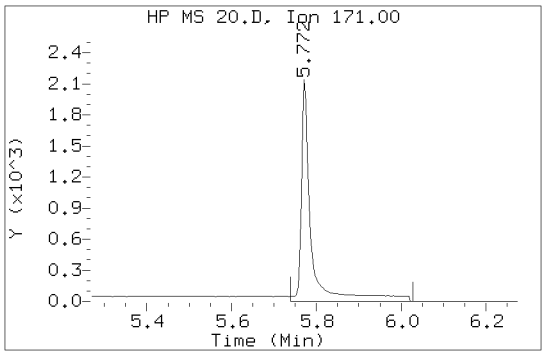
BEFORE

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.

01185567

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

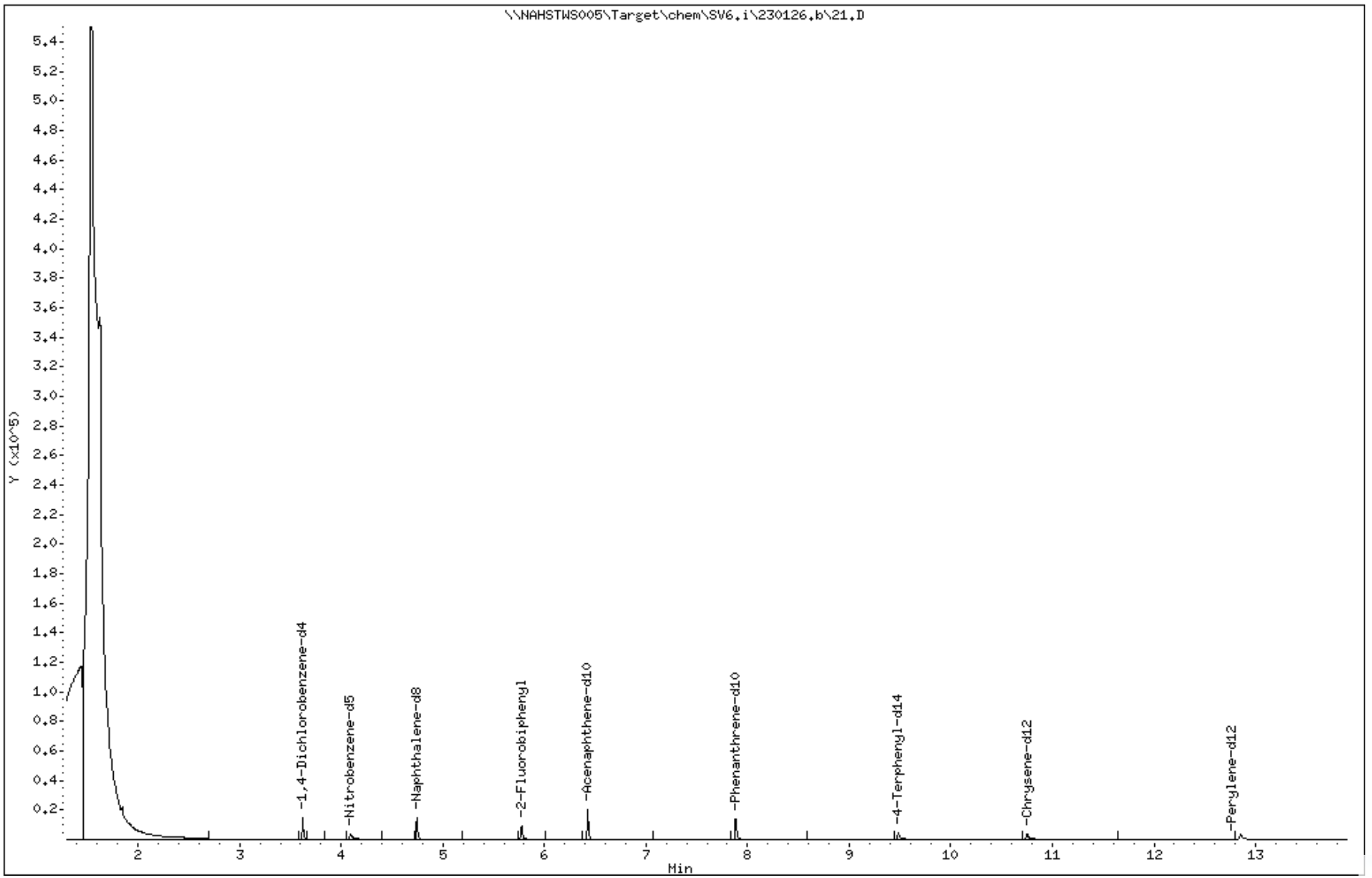
Sample Info: 1 4-DX-0.08;1 4-DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

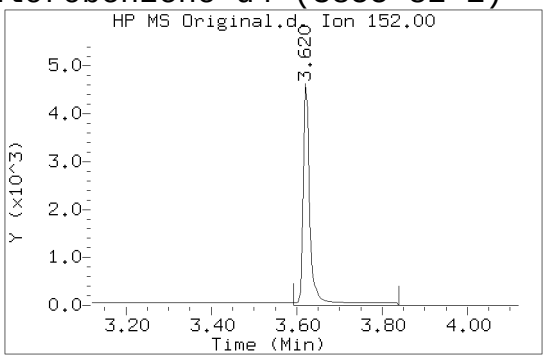


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D
Inj Date : 26-JAN-2023 17:58
InstruID : SV6.i
LabSampID : 1 4-DX-0.08

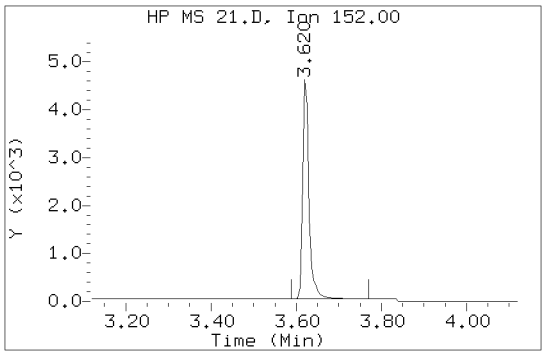
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

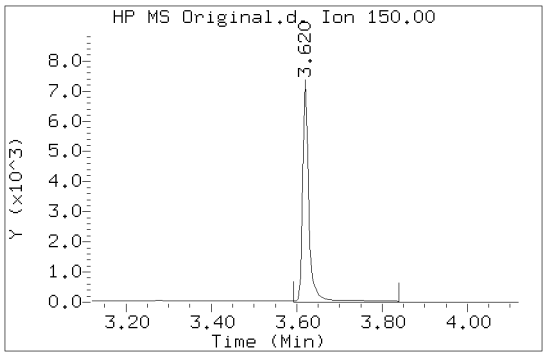
BEFORE
MASS
152
AREA
5358
HEIGHT
4629
26-Jan-2023
18:12
ALSHS
Server



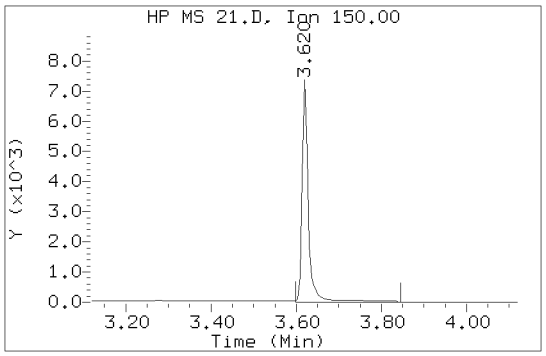
AFTER
MASS
152
AREA
4575
HEIGHT
4577
27-Jan-2023
11:55



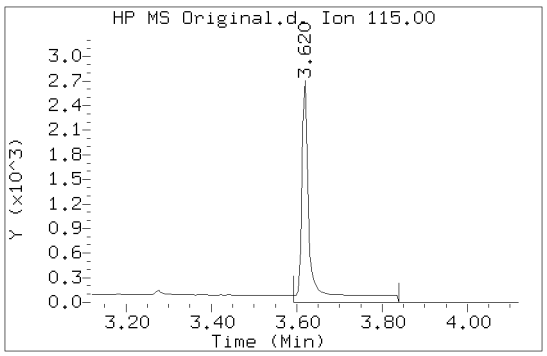
BEFORE
MASS
150
AREA
7614
HEIGHT
7372
26-Jan-2023
18:12
ALSHS
Server



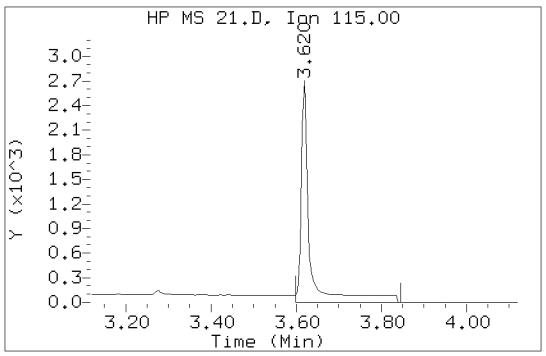
AFTER
MASS
150
AREA
7598
HEIGHT
7372
27-Jan-2023
11:55



BEFORE
MASS
115
AREA
3820
HEIGHT
2704
26-Jan-2023
18:12
ALSHS
Server



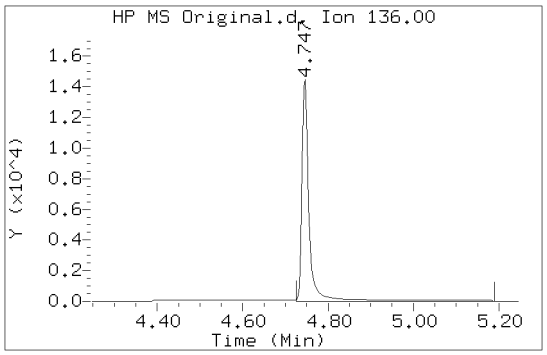
AFTER
MASS
115
AREA
3792
HEIGHT
2704
27-Jan-2023
11:55



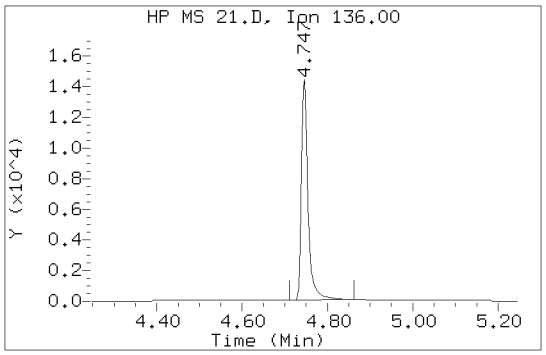
Naphthalene-d8 (1146-65-2)

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



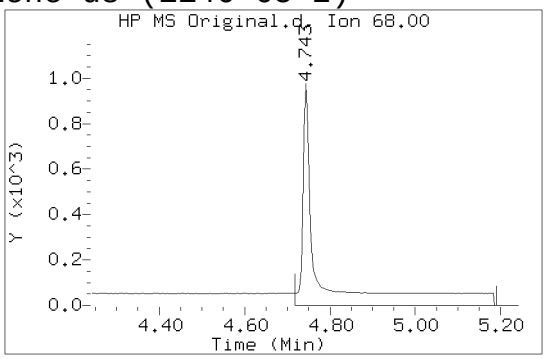
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D
Inj Date : 26-JAN-2023 17:58
InstruID : SV6.i
LabSampID : 1 4-DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

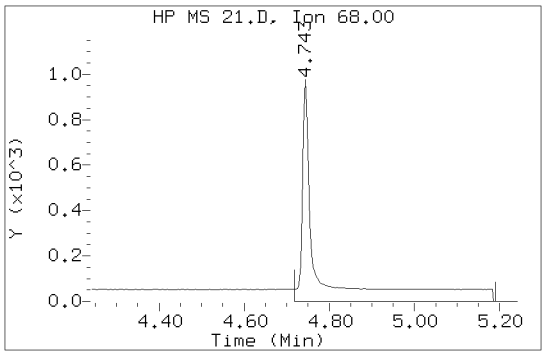
BEFORE

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

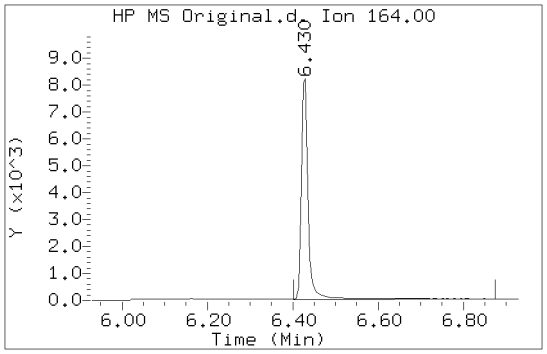


Acenaphthene-d10 (15067-26-2)

Reason Code:

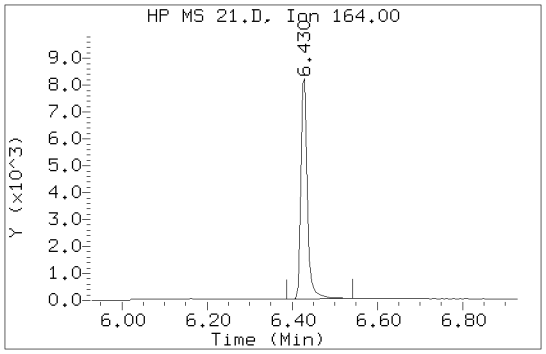
BEFORE

MASS
164
AREA
9409
HEIGHT
8212
26-Jan-2023
18:12
ALSHS
Server



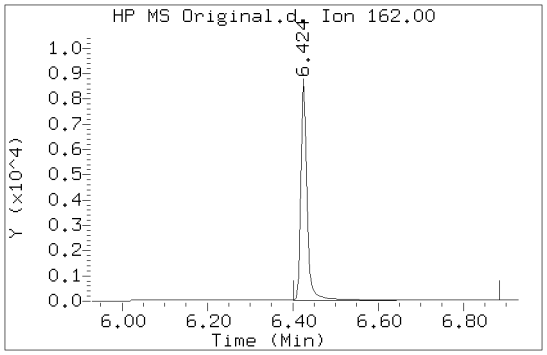
AFTER

MASS
164
AREA
8772
HEIGHT
8177
27-Jan-2023
11:55



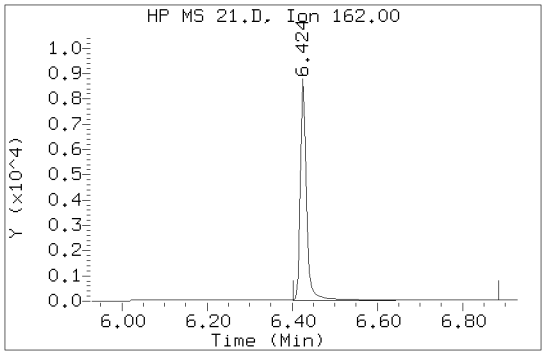
BEFORE

MASS
162
AREA
9264
HEIGHT
8767
26-Jan-2023
18:12
ALSHS
Server



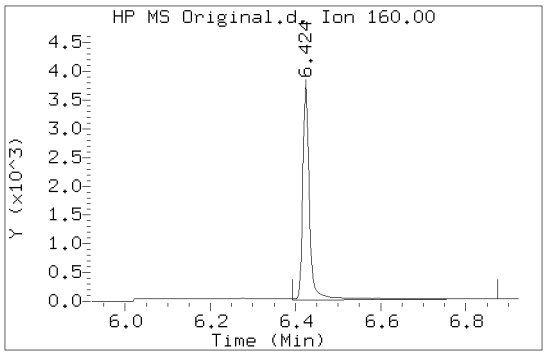
AFTER

MASS
162
AREA
9264
HEIGHT
8767
27-Jan-2023
11:55



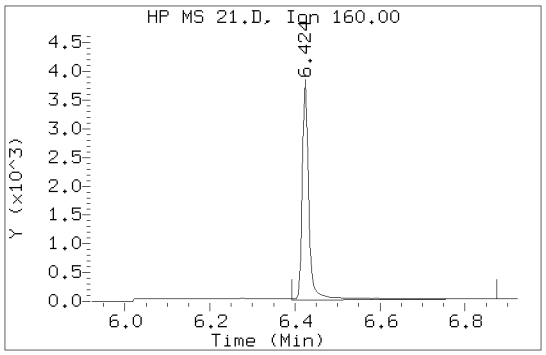
BEFORE

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



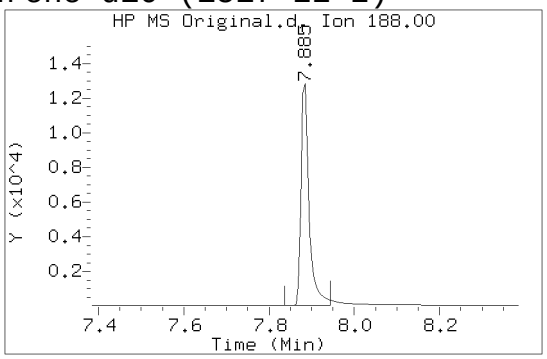
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D
Inj Date : 26-JAN-2023 17:58
InstruID : SV6.i
LabSampID : 1 4-DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

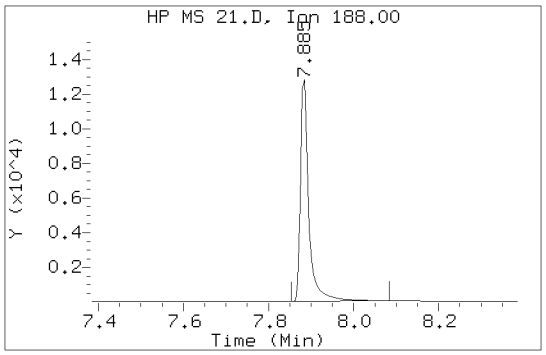
BEFORE

MASS
188
AREA
16671
HEIGHT
12786
26-Jan-2023
18:12
ALSHS
Server



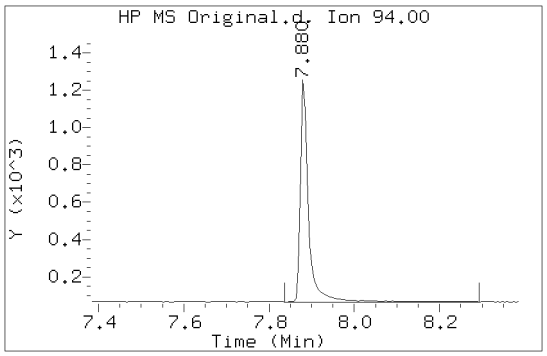
AFTER

MASS
188
AREA
17186
HEIGHT
12781
27-Jan-2023
11:55



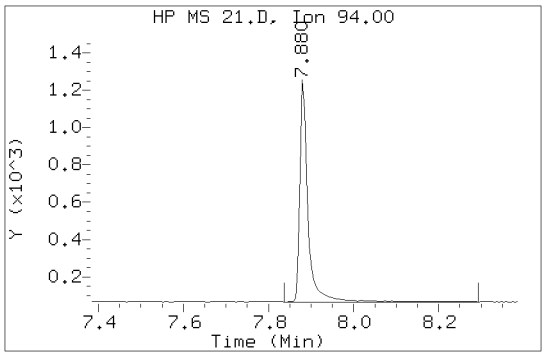
BEFORE

MASS
94
AREA
1592
HEIGHT
1191
26-Jan-2023
18:12
ALSHS
Server



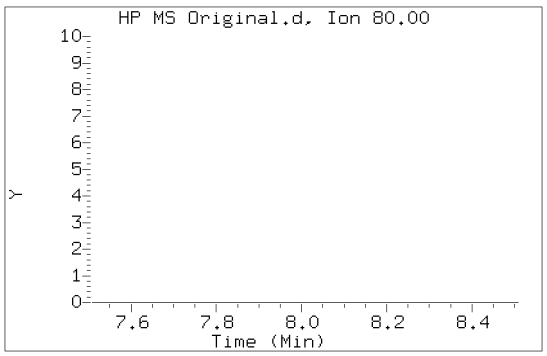
AFTER

MASS
94
AREA
1592
HEIGHT
1191
27-Jan-2023
11:55



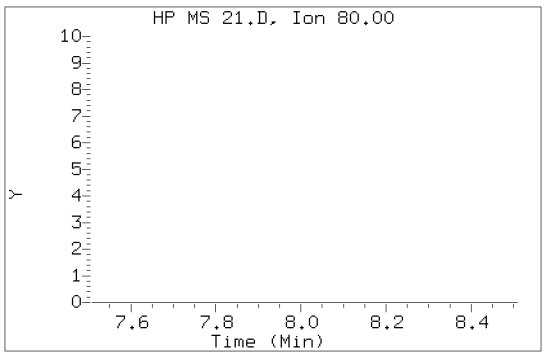
BEFORE

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

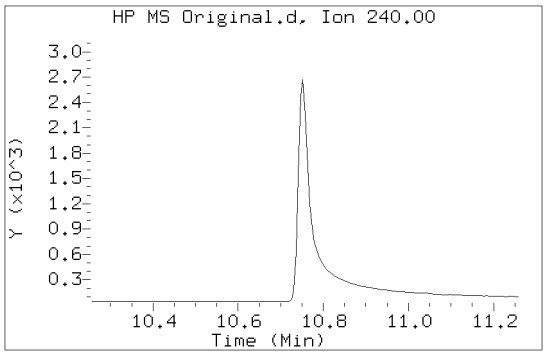


Chrysene-d12 (1719-03-5)

Reason Code:

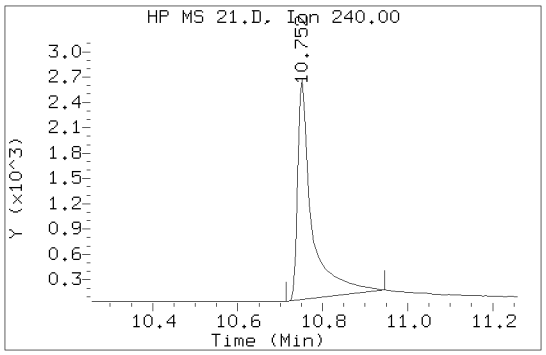
BEFORE

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



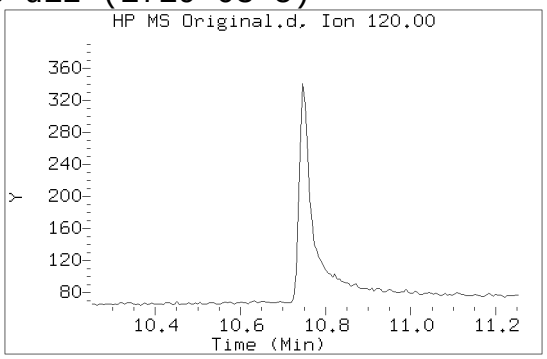
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D
Inj Date : 26-JAN-2023 17:58
InstruID : SV6.i
LabSampID : 1 4-DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

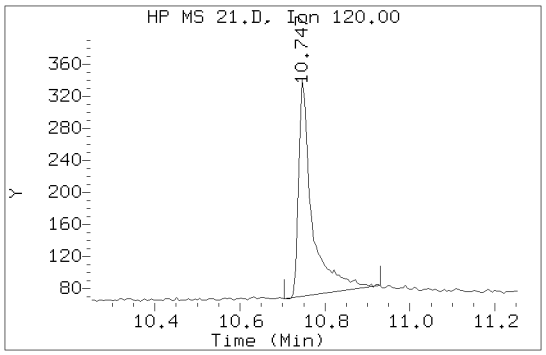
BEFORE

MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
18:12
ALSHS
Server



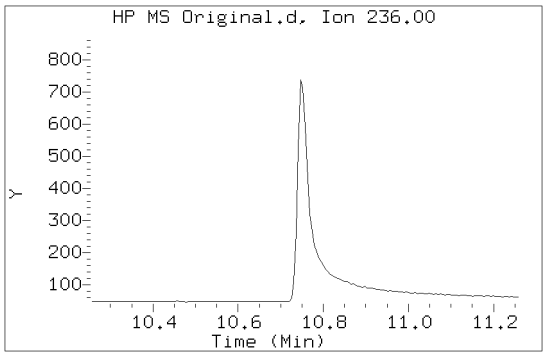
AFTER

MASS
120
AREA
595
HEIGHT
270
27-Jan-2023
11:55



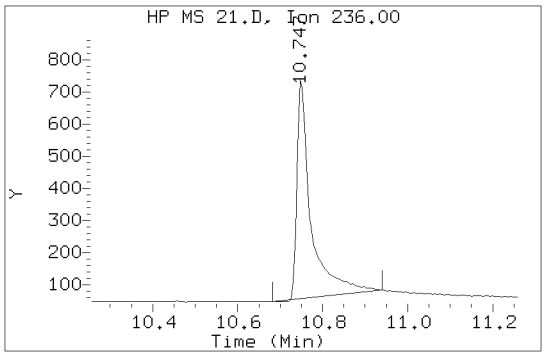
BEFORE

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

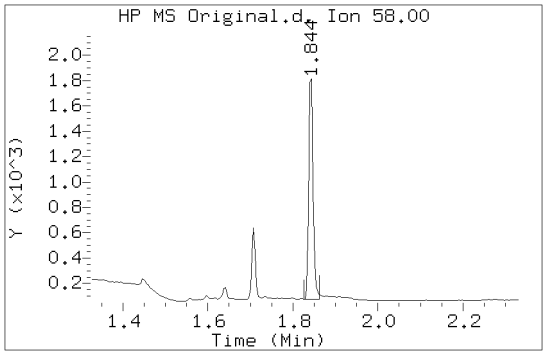


1,4-Dioxane ()

Reason Code:

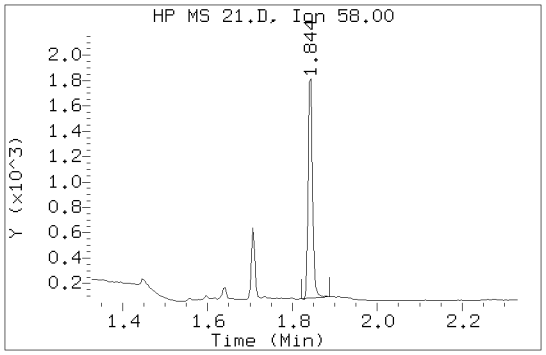
BEFORE

MASS
58
AREA
1228
HEIGHT
1738
26-Jan-2023
18:12
ALSHS
Server



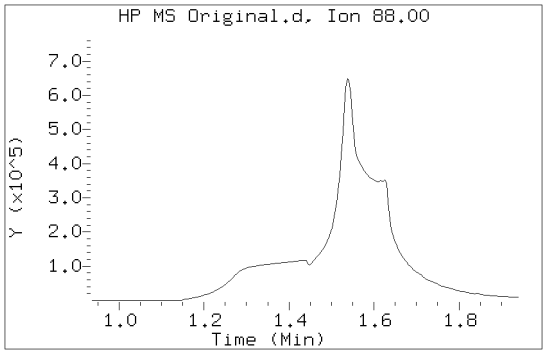
AFTER

MASS
58
AREA
1216
HEIGHT
1728
27-Jan-2023
11:55



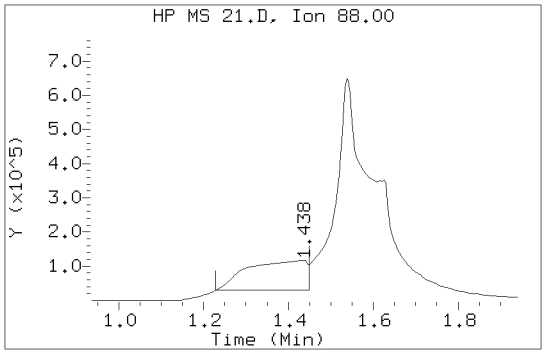
BEFORE

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



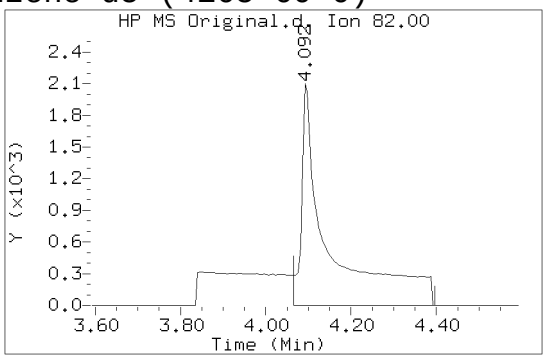
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D
Inj Date : 26-JAN-2023 17:58
InstruID : SV6.i
LabSampID : 1 4-DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

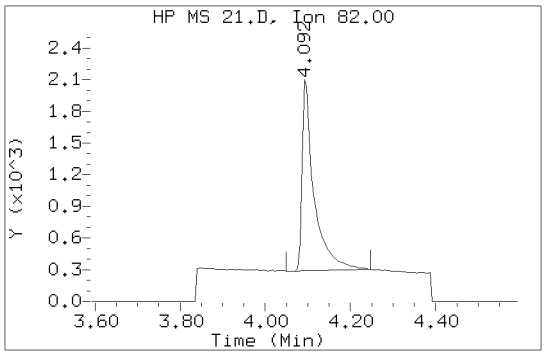
BEFORE

MASS
82
AREA
9169
HEIGHT
2100
26-Jan-2023
18:12
ALSHS
Server



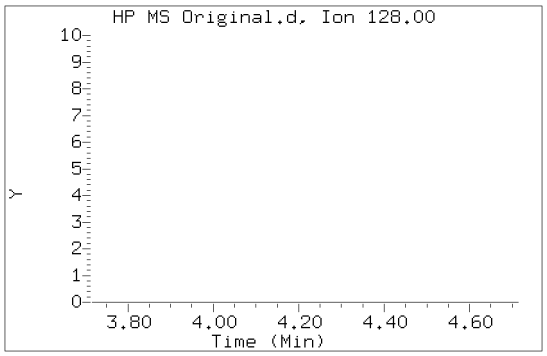
AFTER

MASS
82
AREA
3532
HEIGHT
1809
27-Jan-2023
11:55



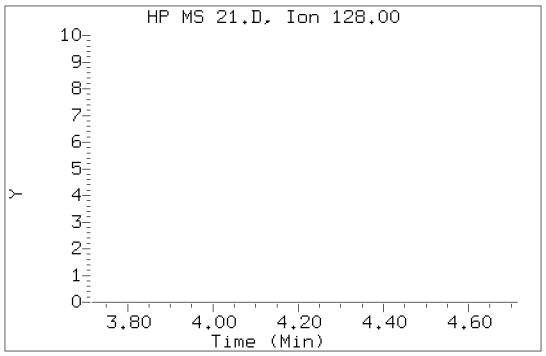
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
18:12
ALSHS
Server



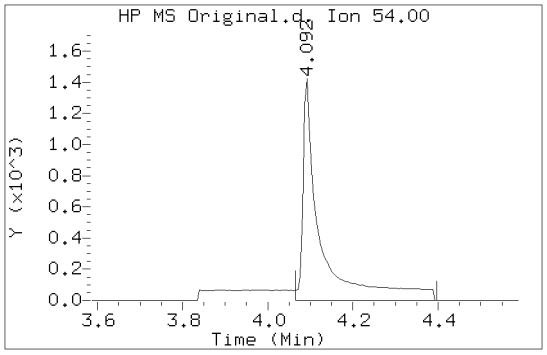
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



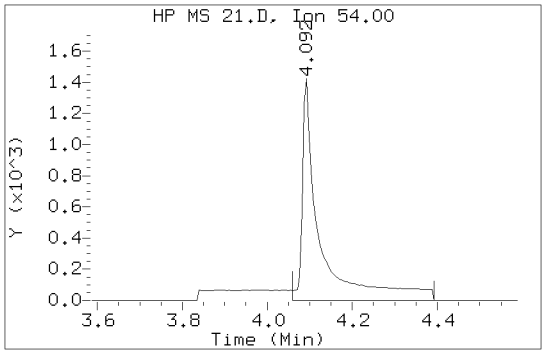
BEFORE

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

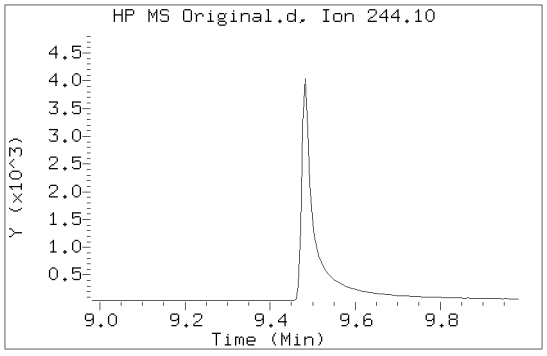


4-Terphenyl-d14 (1718-51-0)

Reason Code:

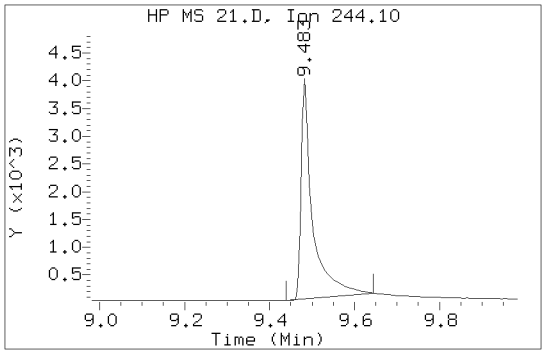
BEFORE

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



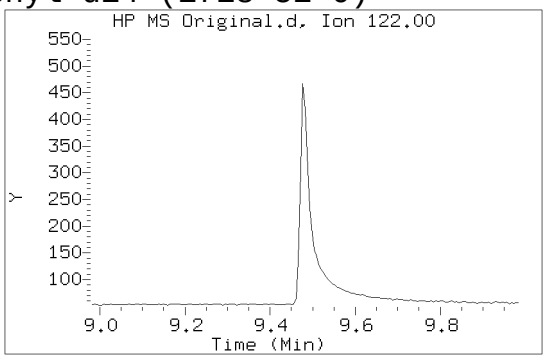
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\21.D
Inj Date : 26-JAN-2023 17:58
InstruID : SV6.i
LabSampID : 1 4-DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

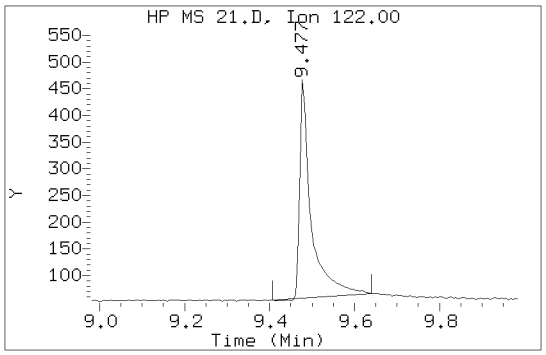
BEFORE

MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
18:12
ALSHS
Server



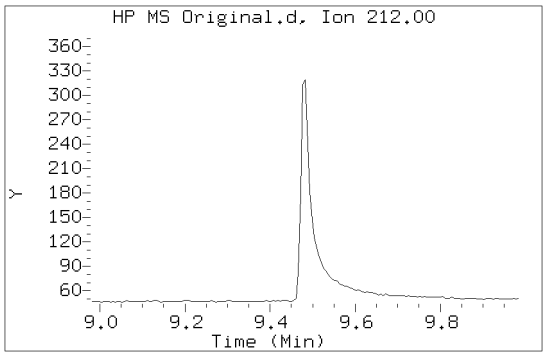
AFTER

MASS
122
AREA
760
HEIGHT
409
27-Jan-2023
11:55



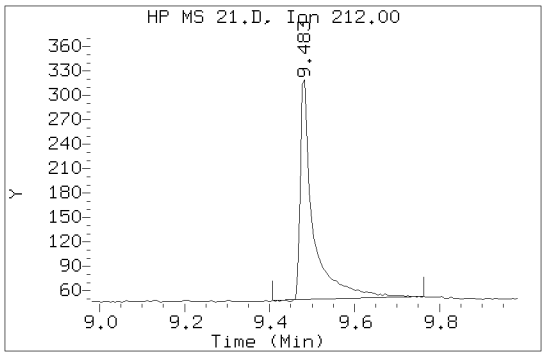
BEFORE

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

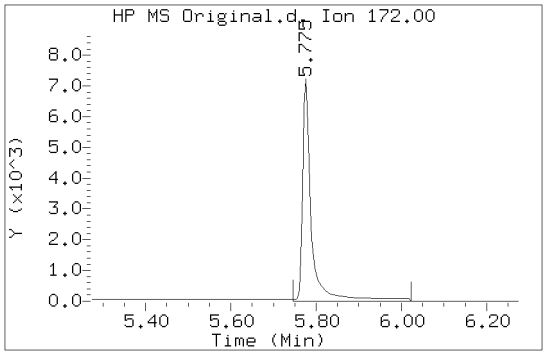


2-Fluorobiphenyl (321-60-8)

Reason Code:

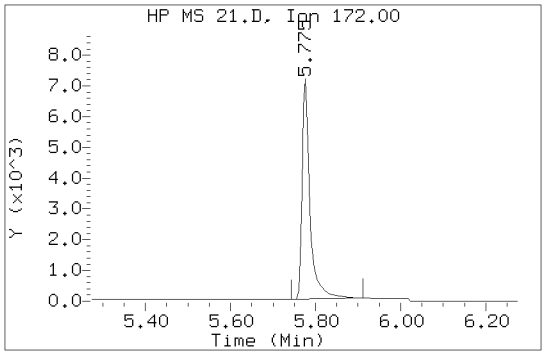
BEFORE

MASS
172
AREA
10503
HEIGHT
7226
26-Jan-2023
18:12
ALSHS
Server



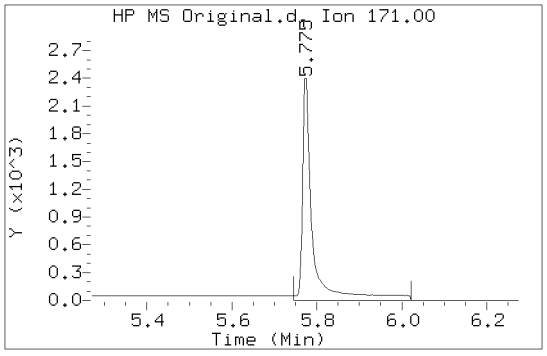
AFTER

MASS
172
AREA
9154
HEIGHT
7158
27-Jan-2023
11:55



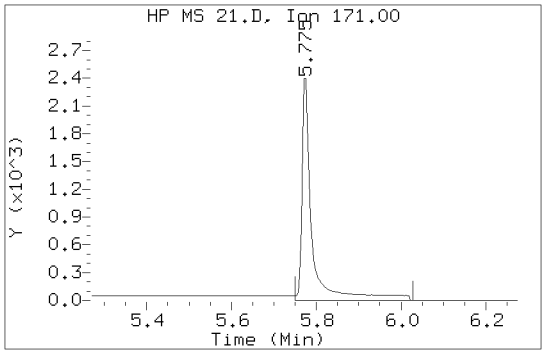
BEFORE

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)	AMOUNTS 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.

01185575

Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D

Date : 26-JAN-2023 18:16

Client ID: 1 4-DX-0.1

Instrument: SV6.i

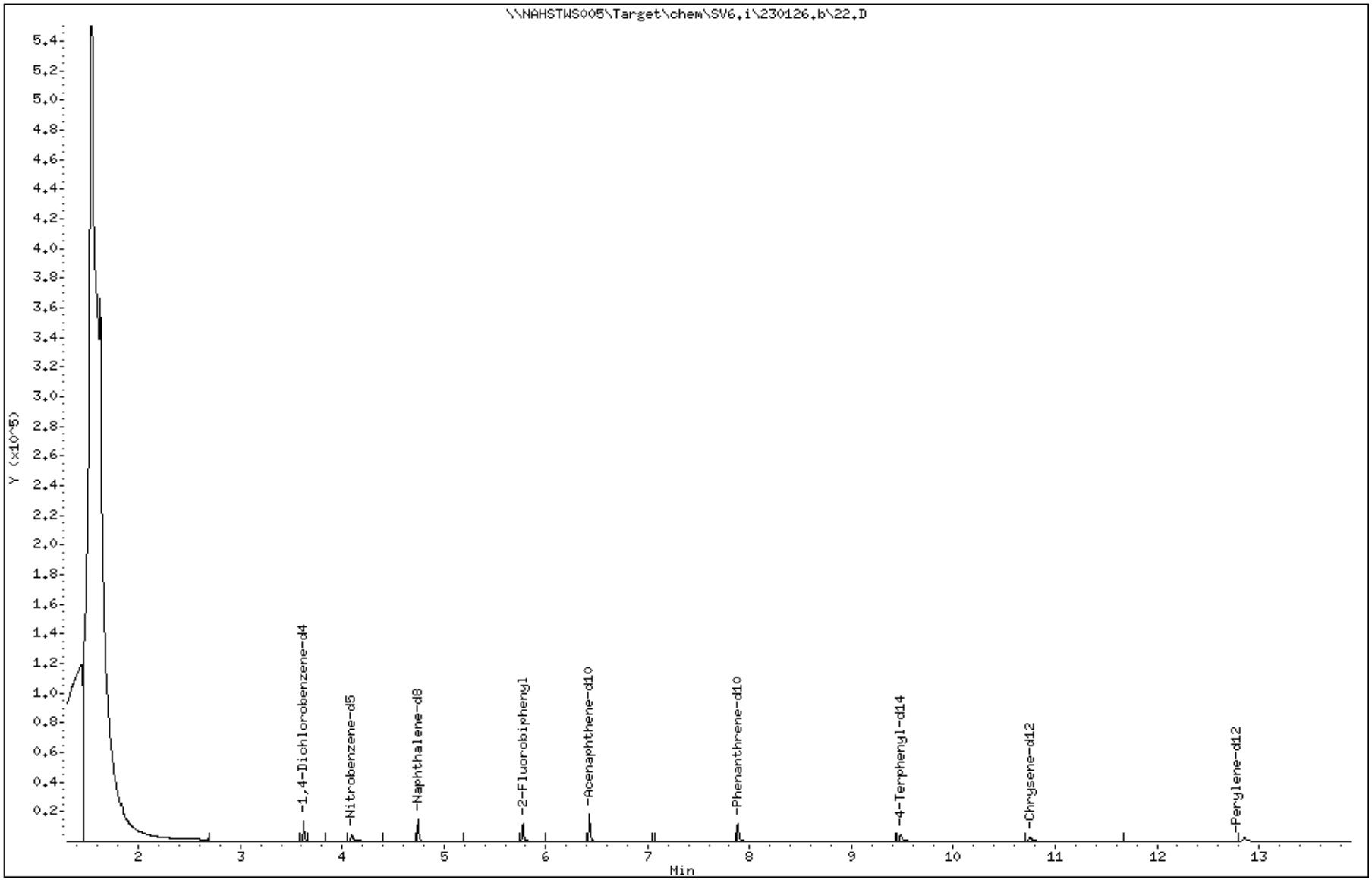
Sample Info: 1 4-DX-0.1;1 4-DX-0.1

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



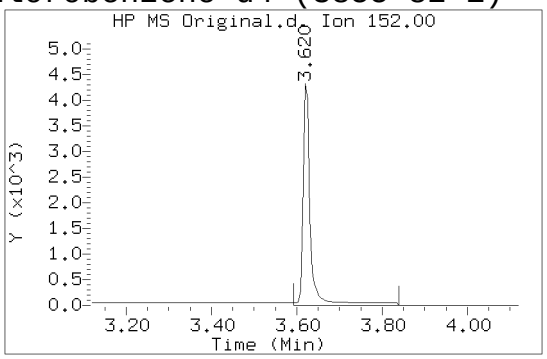
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D
Inj Date : 26-JAN-2023 18:16
InstruID : SV6.i
LabSampID : 1 4-DX-0.1

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

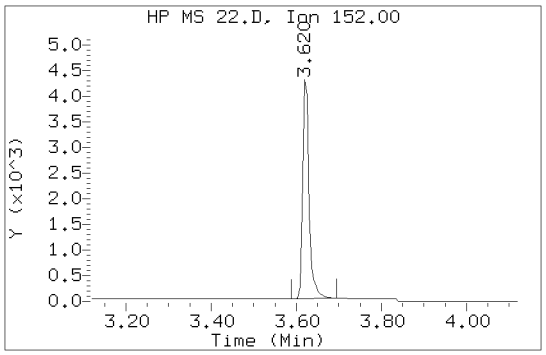
BEFORE

MASS
152
AREA
5152
HEIGHT
4327
26-Jan-2023
18:32
ALSHS
Server



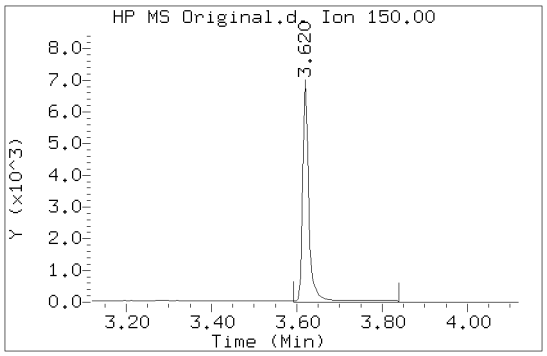
AFTER

MASS
152
AREA
4328
HEIGHT
4273
27-Jan-2023
11:55



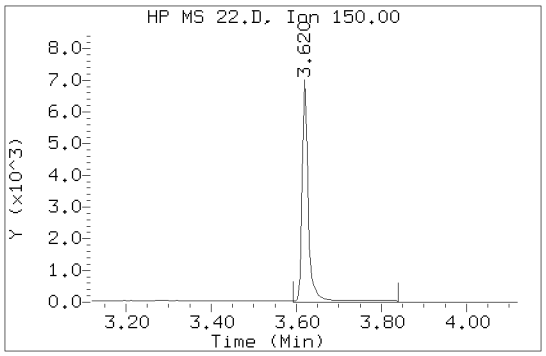
BEFORE

MASS
150
AREA
7314
HEIGHT
7012
26-Jan-2023
18:32
ALSHS
Server



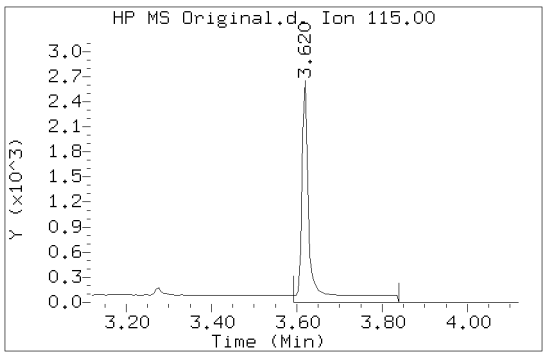
AFTER

MASS
150
AREA
7314
HEIGHT
7012
27-Jan-2023
11:55



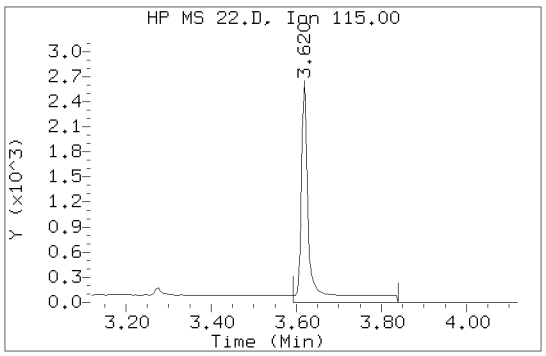
BEFORE

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

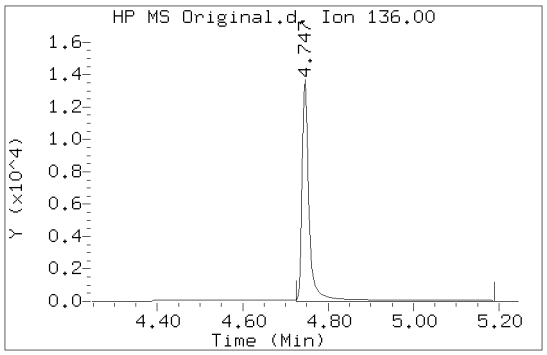


Naphthalene-d8 (1146-65-2)

Reason Code:

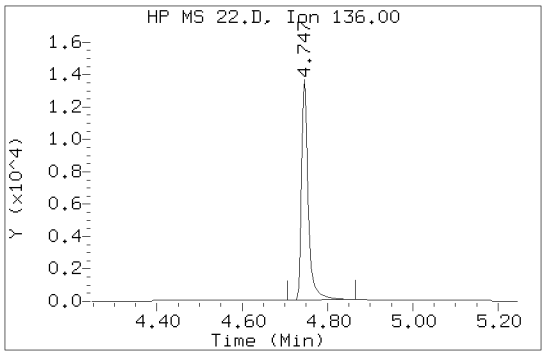
BEFORE

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



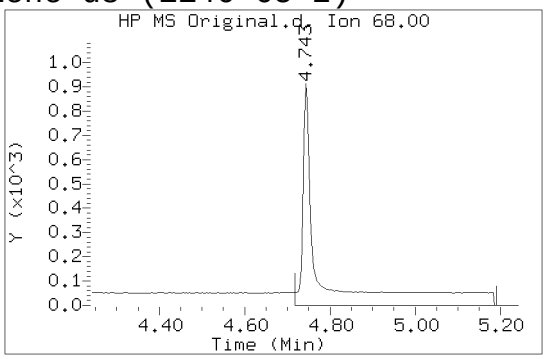
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D
Inj Date : 26-JAN-2023 18:16
InstruID : SV6.i
LabSampID : 1 4-DX-0.1

Naphthalene-d8 (1146-65-2)

Reason Code:

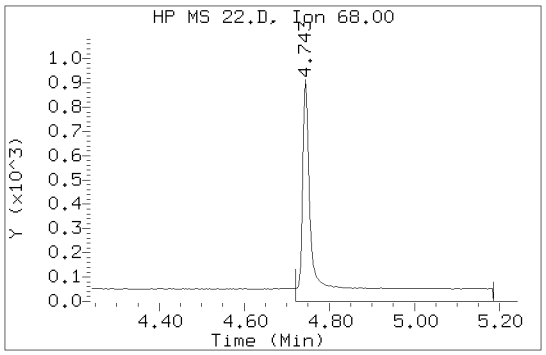
BEFORE

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

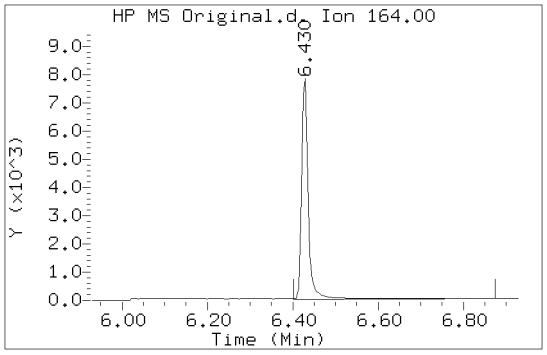


Acenaphthene-d10 (15067-26-2)

Reason Code:

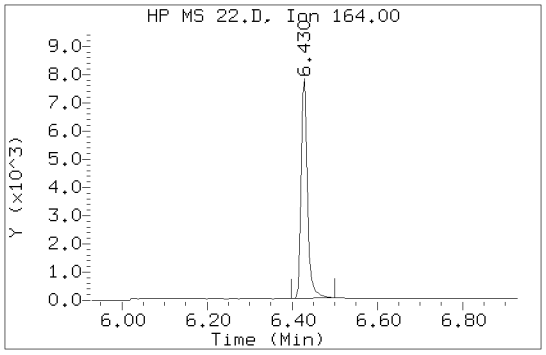
BEFORE

MASS
164
AREA
8927
HEIGHT
7829
26-Jan-2023
18:32
ALSHS
Server



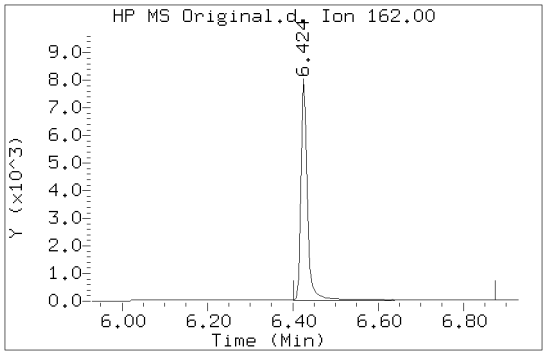
AFTER

MASS
164
AREA
8212
HEIGHT
7787
27-Jan-2023
11:55



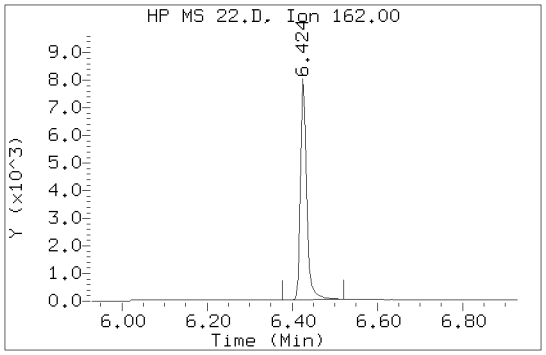
BEFORE

MASS
162
AREA
8833
HEIGHT
8026
26-Jan-2023
18:32
ALSHS
Server



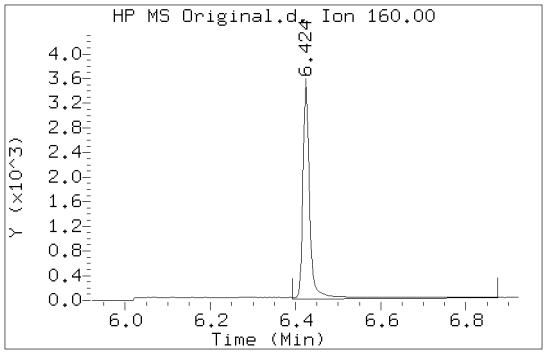
AFTER

MASS
162
AREA
8207
HEIGHT
7991
27-Jan-2023
11:55



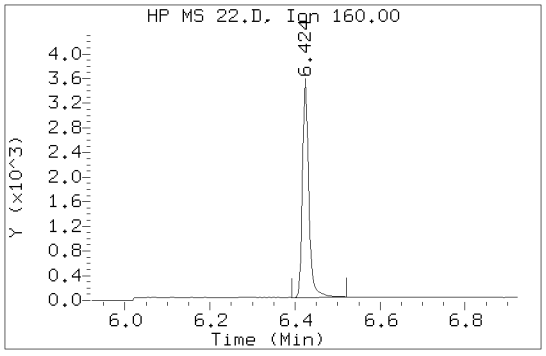
BEFORE

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



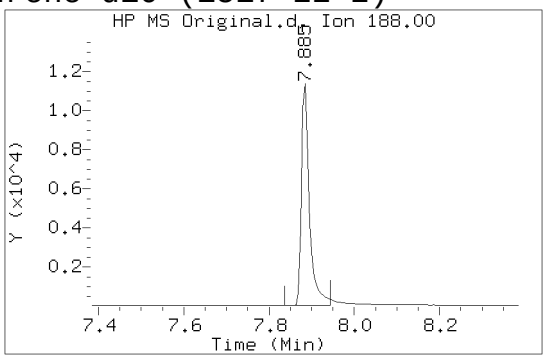
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D
Inj Date : 26-JAN-2023 18:16
InstruID : SV6.i
LabSampID : 1 4-DX-0.1

Phenanthrene-d10 (1517-22-2)

Reason Code:

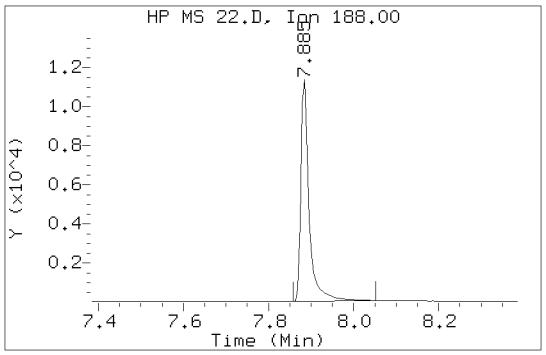
BEFORE

MASS
188
AREA
14633
HEIGHT
11338
26-Jan-2023
18:32
ALSHS
Server



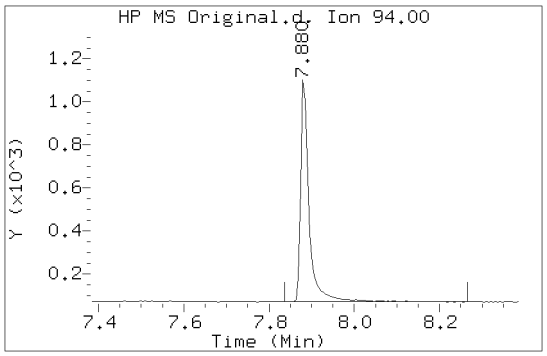
AFTER

MASS
188
AREA
15031
HEIGHT
11331
27-Jan-2023
11:55



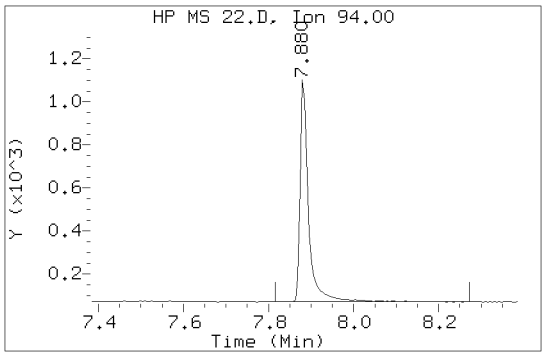
BEFORE

MASS
94
AREA
1412
HEIGHT
1030
26-Jan-2023
18:32
ALSHS
Server



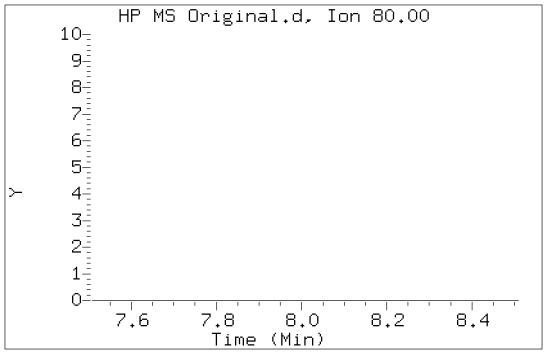
AFTER

MASS
94
AREA
1413
HEIGHT
1030
27-Jan-2023
11:55



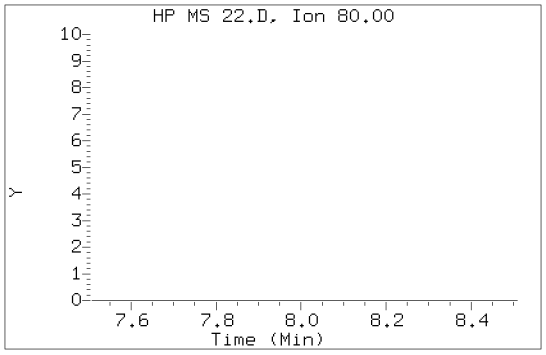
BEFORE

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

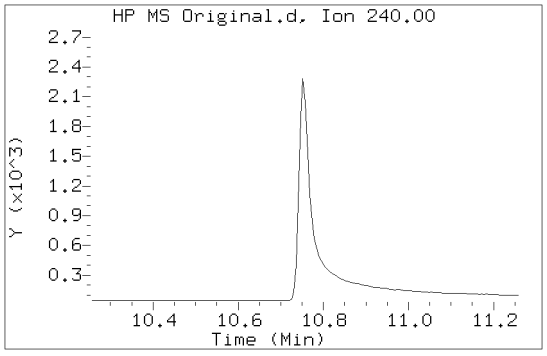


Chrysene-d12 (1719-03-5)

Reason Code:

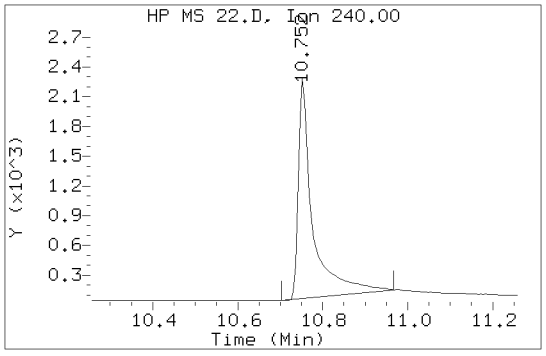
BEFORE

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

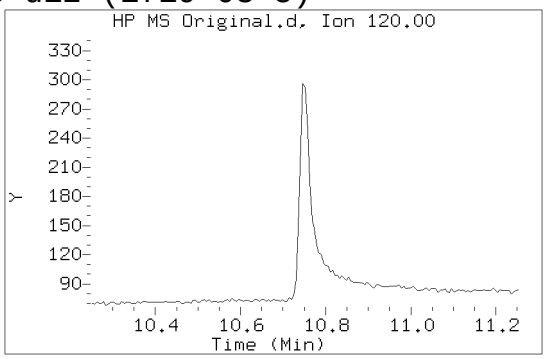


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D
Inj Date : 26-JAN-2023 18:16
InstruID : SV6.i
LabSampID : 1 4-DX-0.1

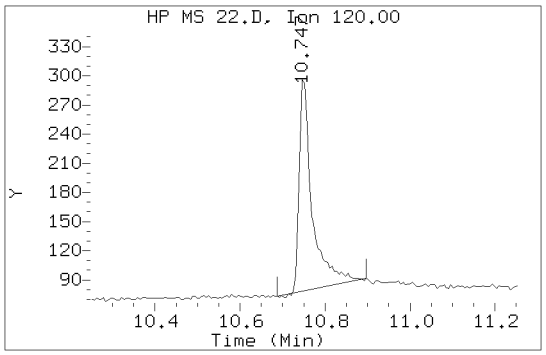
Chrysene-d12 (1719-03-5)

Reason Code:

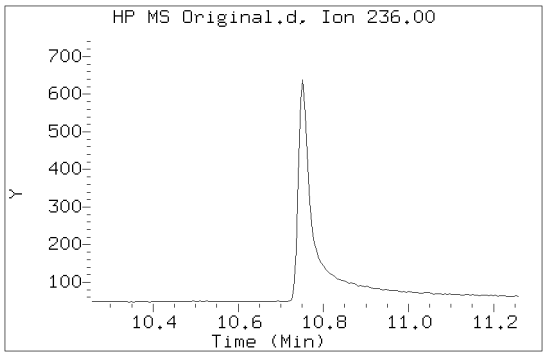
BEFORE
MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
18:32
ALSHS
Server



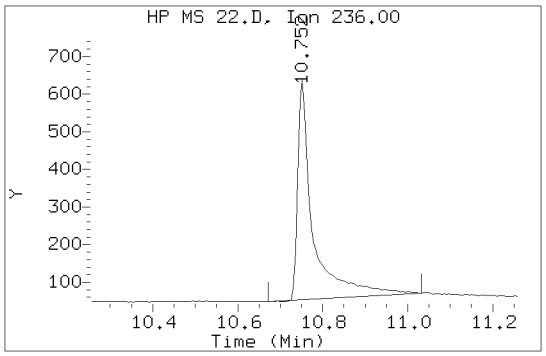
AFTER
MASS
120
AREA
457
HEIGHT
217
27-Jan-2023
11:55



BEFORE
MASS
236
AREA
0
HEIGHT
0
26-Jan-2023
18:32
ALSHS
Server



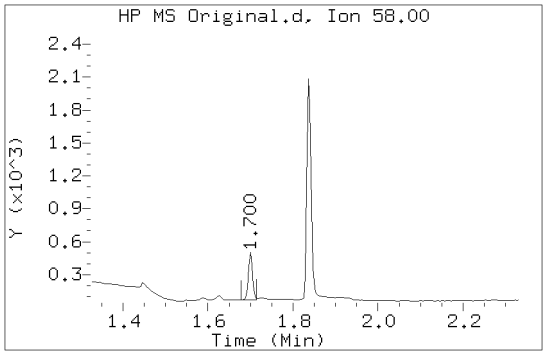
AFTER
MASS
236
AREA
1462
HEIGHT
584
27-Jan-2023
11:55



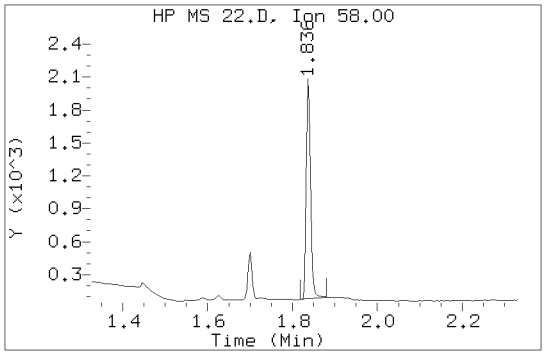
1,4-Dioxane ()

Reason Code:

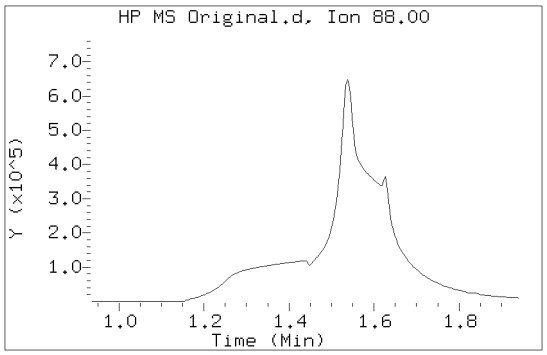
BEFORE
MASS
58
AREA
298
HEIGHT
432
26-Jan-2023
18:32
ALSHS
Server



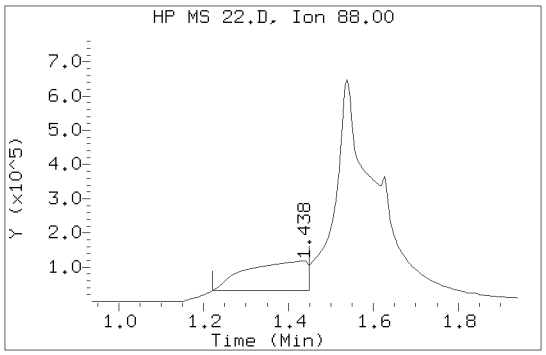
AFTER
MASS
58
AREA
1401
HEIGHT
2002
27-Jan-2023
11:55



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



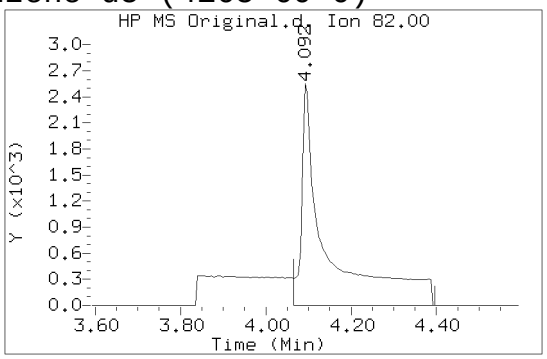
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D
Inj Date : 26-JAN-2023 18:16
InstruID : SV6.i
LabSampID : 1 4-DX-0.1

Nitrobenzene-d5 (4165-60-0)

Reason Code:

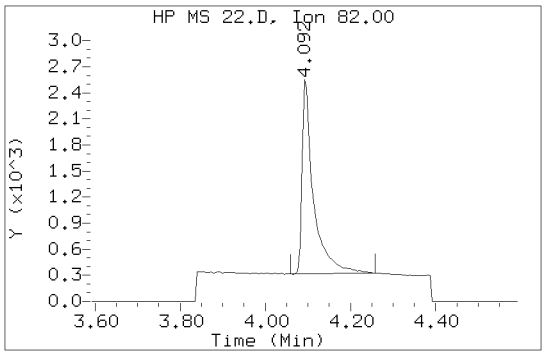
BEFORE

MASS
82
AREA
10301
HEIGHT
2551
26-Jan-2023
18:32
ALSHS
Server



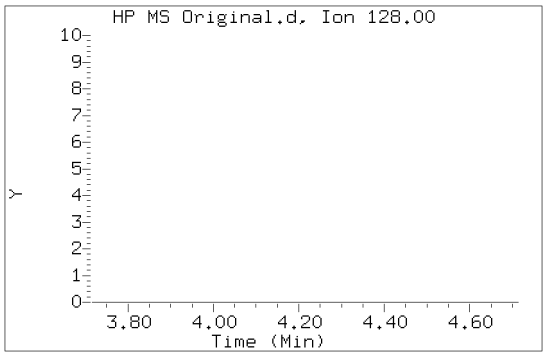
AFTER

MASS
82
AREA
4162
HEIGHT
2234
27-Jan-2023
11:55



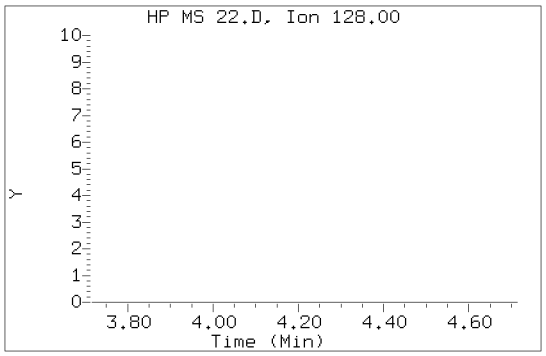
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
18:32
ALSHS
Server



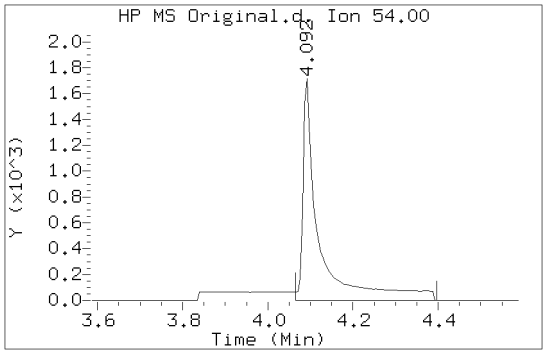
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



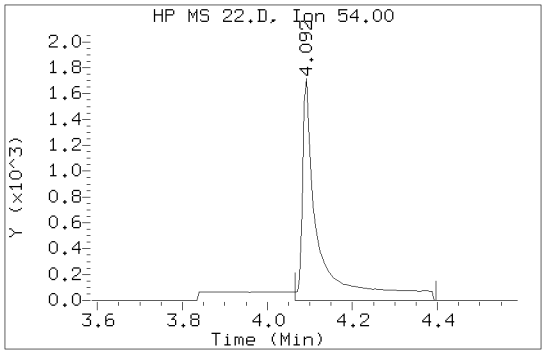
BEFORE

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

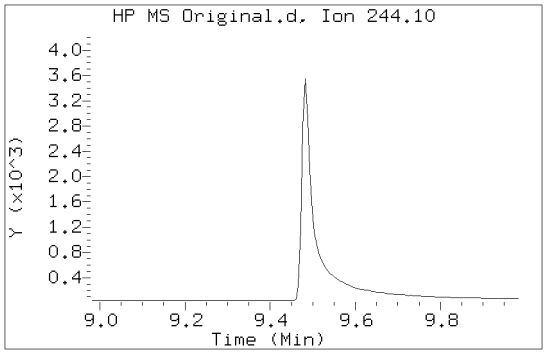


4-Terphenyl-d14 (1718-51-0)

Reason Code:

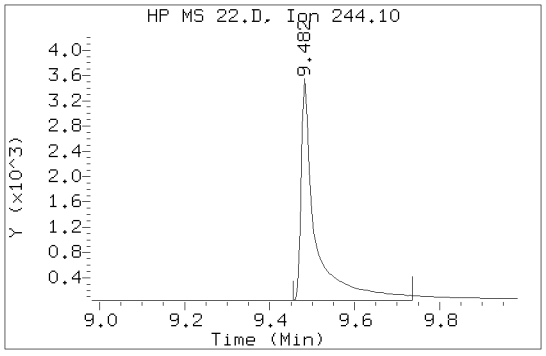
BEFORE

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

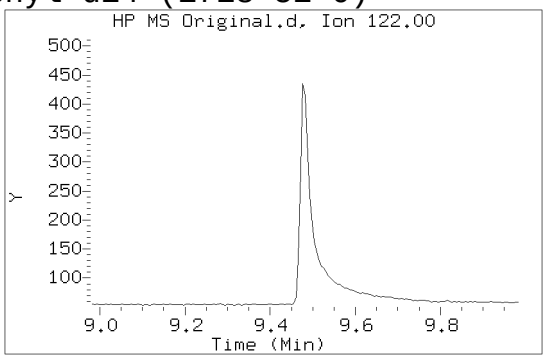


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\22.D
Inj Date : 26-JAN-2023 18:16
InstruID : SV6.i
LabSampID : 1 4-DX-0.1

4-Terphenyl-d14 (1718-51-0)

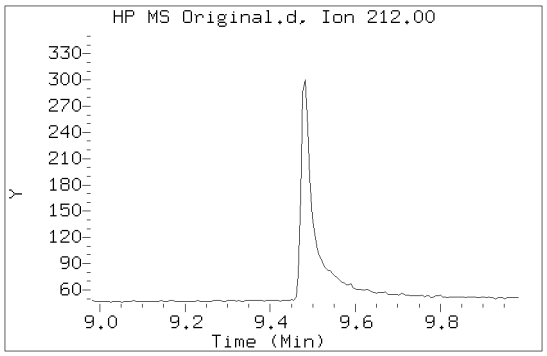
BEFORE

MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
18:32
ALSHS
Server



BEFORE

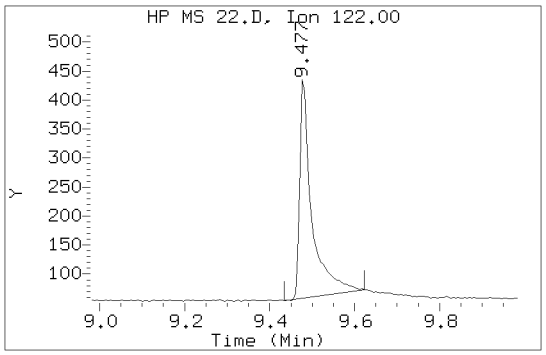
MASS
212
AREA
0
HEIGHT
0
26-Jan-2023
18:32
ALSHS
Server



Reason Code:

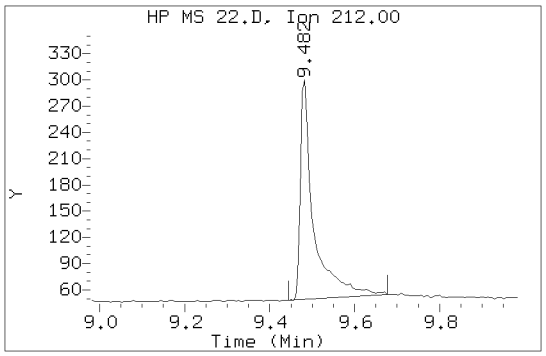
AFTER

MASS
122
AREA
740
HEIGHT
376
27-Jan-2023
11:55



AFTER

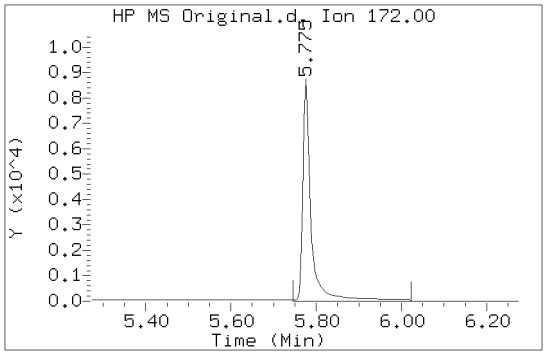
MASS
212
AREA
543
HEIGHT
250
27-Jan-2023
11:55



2-Fluorobiphenyl (321-60-8)

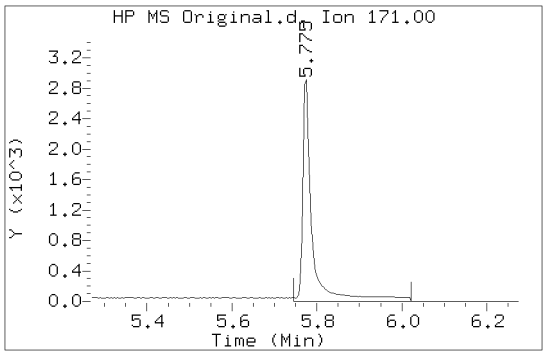
BEFORE

MASS
172
AREA
12027
HEIGHT
8749
26-Jan-2023
18:32
ALSHS
Server



BEFORE

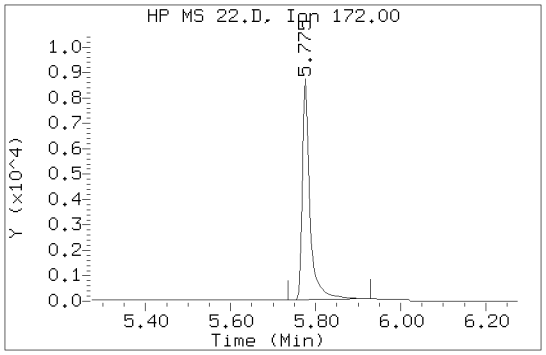
MASS
171
AREA
4538
HEIGHT
2913
26-Jan-2023
18:32
ALSHS
Server



Reason Code:

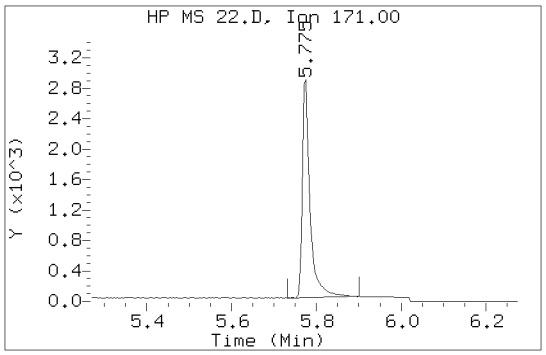
AFTER

MASS
172
AREA
10723
HEIGHT
8683
27-Jan-2023
11:55



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.

01185584

Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D

Date : 26-JAN-2023 18:34

Client ID: 1 4-DX-0.15

Instrument: SV6.i

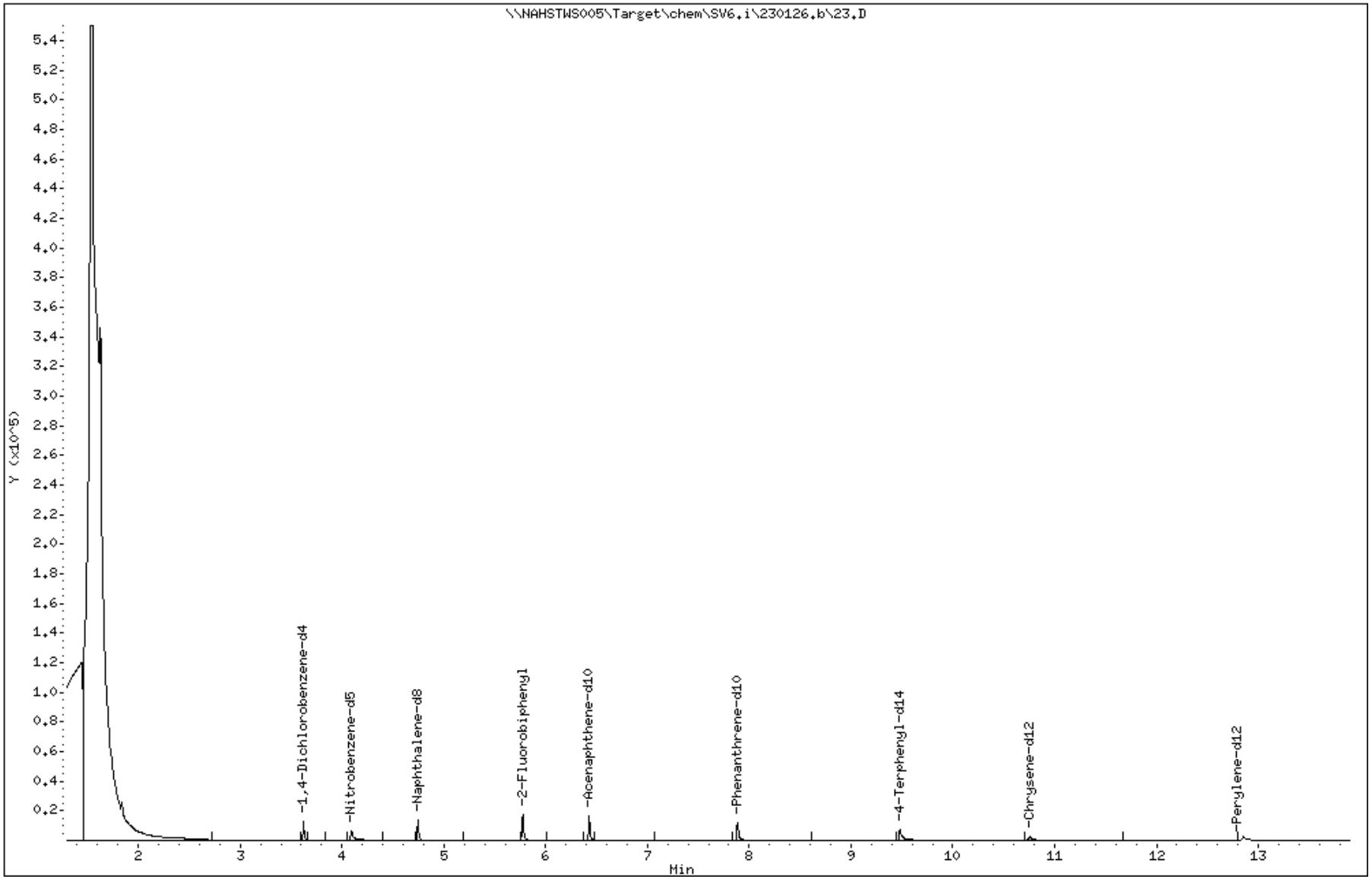
Sample Info: 1 4-DX-0.15;1 4-DX-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



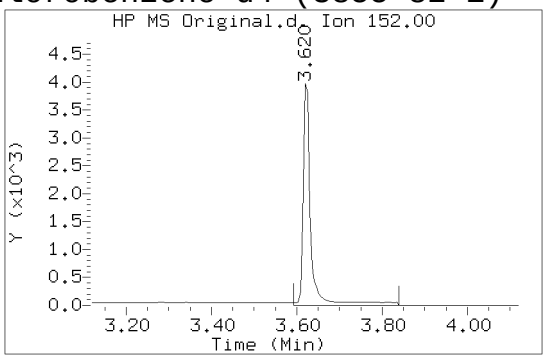
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D
Inj Date : 26-JAN-2023 18:34
InstruID : SV6.i
LabSampID : 1 4-DX-0.15

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

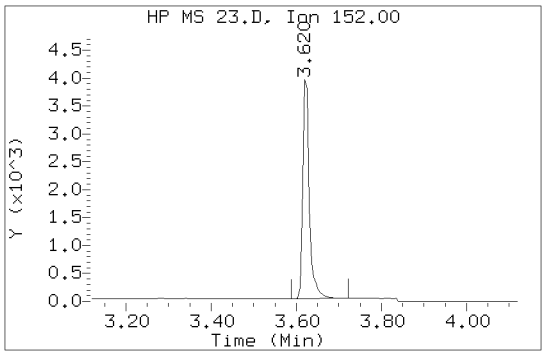
BEFORE

MASS
152
AREA
4880
HEIGHT
3972
26-Jan-2023
18:48
ALSHS
Server



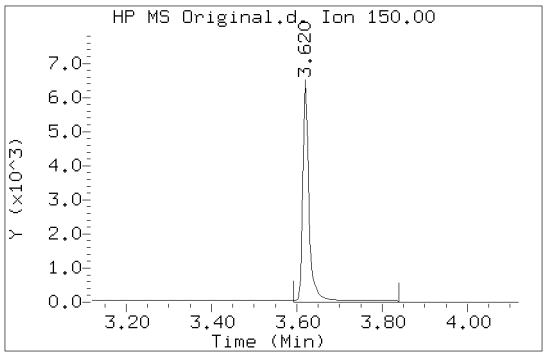
AFTER

MASS
152
AREA
4099
HEIGHT
3920
27-Jan-2023
11:55



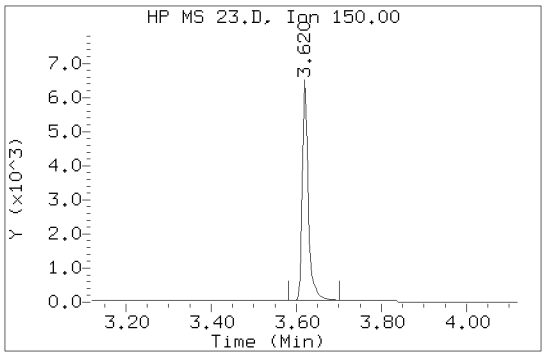
BEFORE

MASS
150
AREA
6931
HEIGHT
6517
26-Jan-2023
18:48
ALSHS
Server



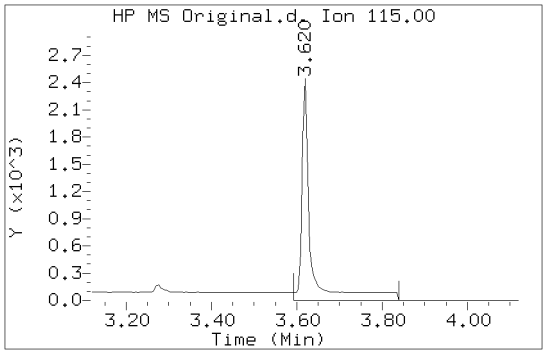
AFTER

MASS
150
AREA
6120
HEIGHT
6464
27-Jan-2023
11:55



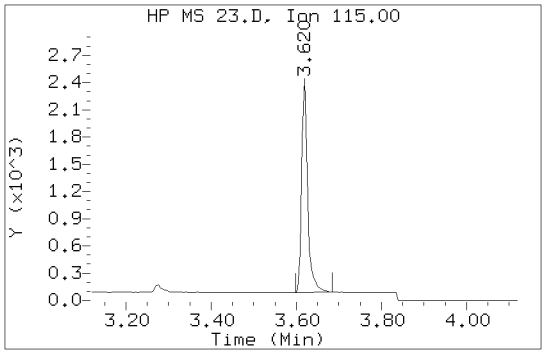
BEFORE

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

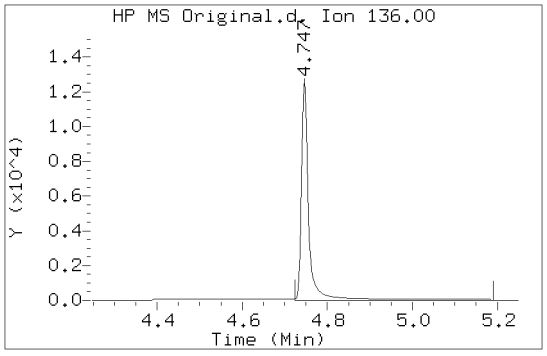


Naphthalene-d8 (1146-65-2)

Reason Code:

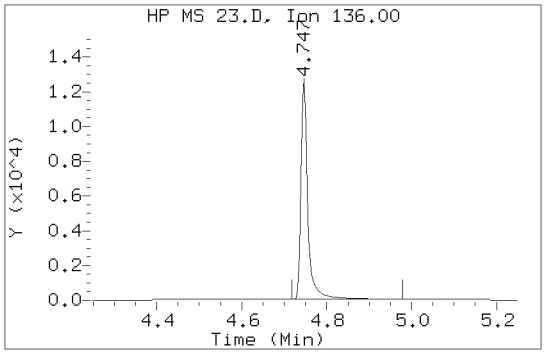
BEFORE

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



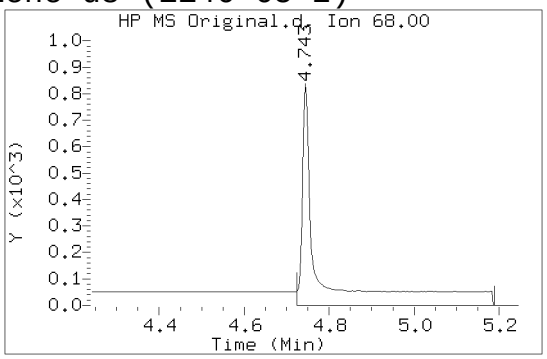
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D
Inj Date : 26-JAN-2023 18:34
InstruID : SV6.i
LabSampID : 1 4-DX-0.15

Naphthalene-d8 (1146-65-2)

Reason Code:

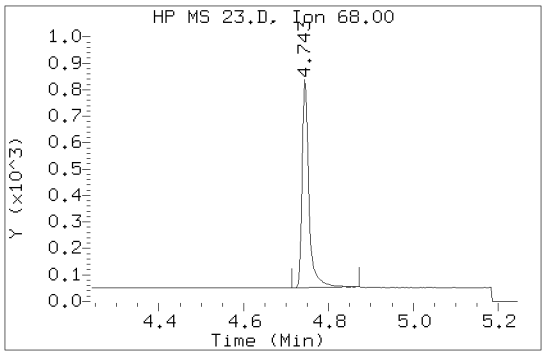
BEFORE

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

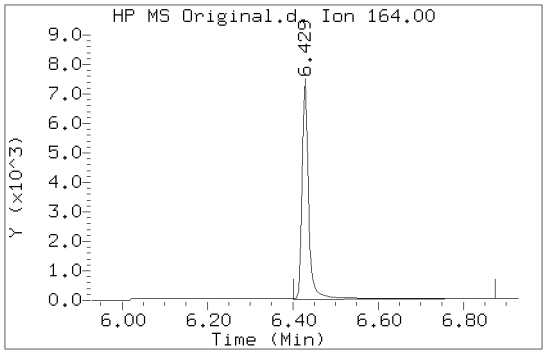


Acenaphthene-d10 (15067-26-2)

Reason Code:

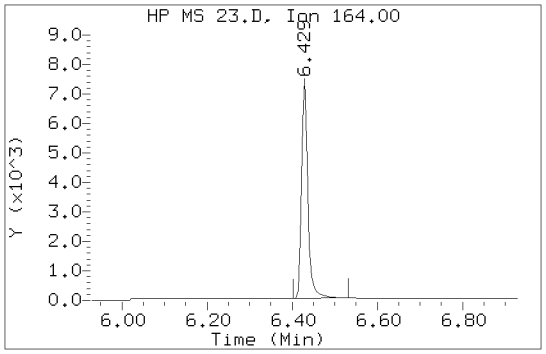
BEFORE

MASS
164
AREA
8455
HEIGHT
7488
26-Jan-2023
18:48
ALSHS
Server



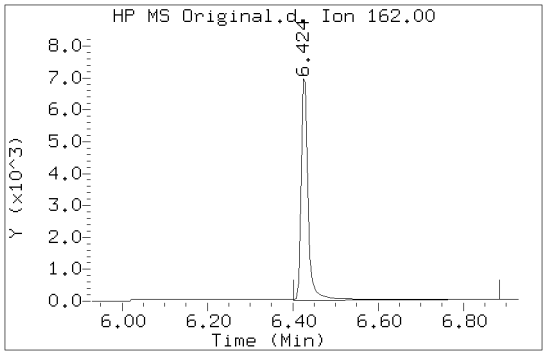
AFTER

MASS
164
AREA
7780
HEIGHT
7452
27-Jan-2023
11:55



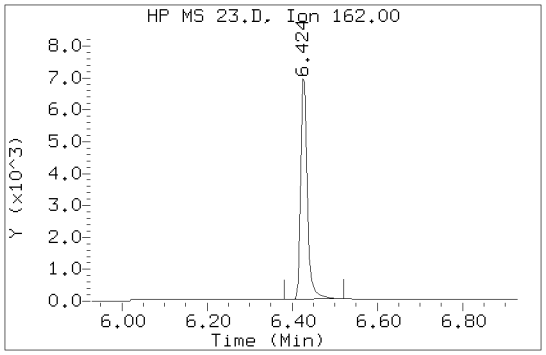
BEFORE

MASS
162
AREA
8373
HEIGHT
6943
26-Jan-2023
18:48
ALSHS
Server



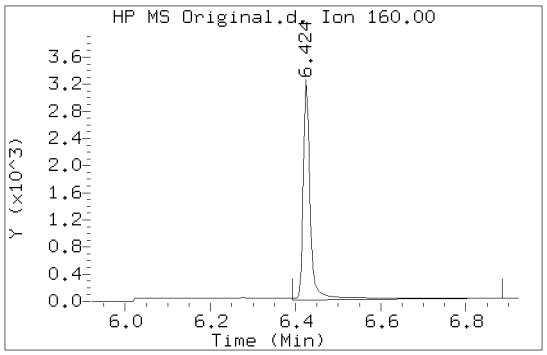
AFTER

MASS
162
AREA
7710
HEIGHT
6908
27-Jan-2023
11:55



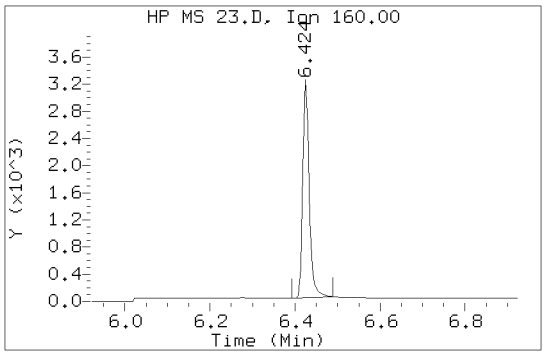
BEFORE

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



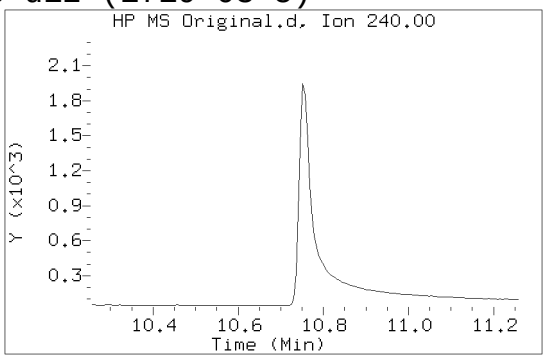
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D
Inj Date : 26-JAN-2023 18:34
InstruID : SV6.i
LabSampID : 1 4-DX-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

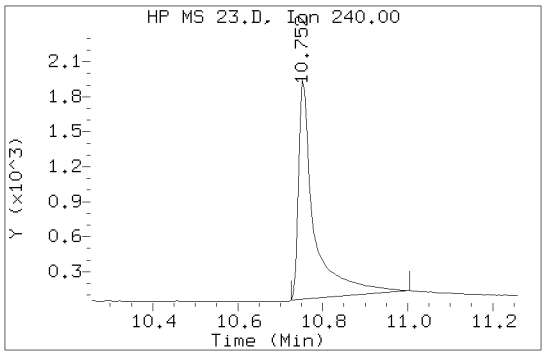
BEFORE

MASS
240
AREA
0
HEIGHT
0
26-Jan-2023
18:48
ALSHS
Server



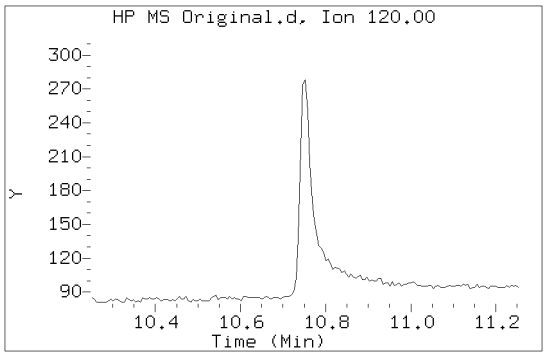
AFTER

MASS
240
AREA
4829
HEIGHT
1883
27-Jan-2023
11:55



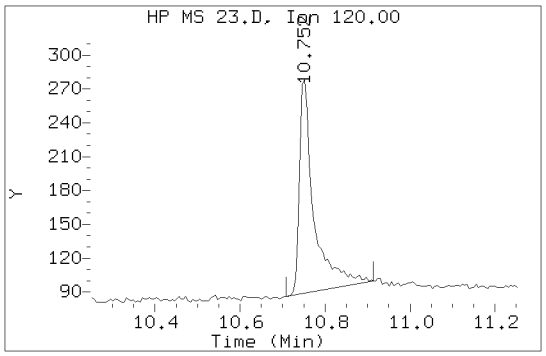
BEFORE

MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
18:48
ALSHS
Server



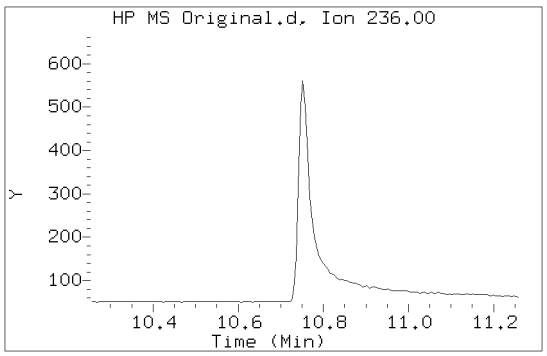
AFTER

MASS
120
AREA
446
HEIGHT
189
27-Jan-2023
11:55



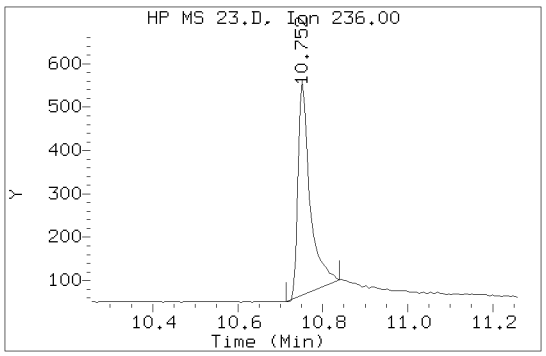
BEFORE

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

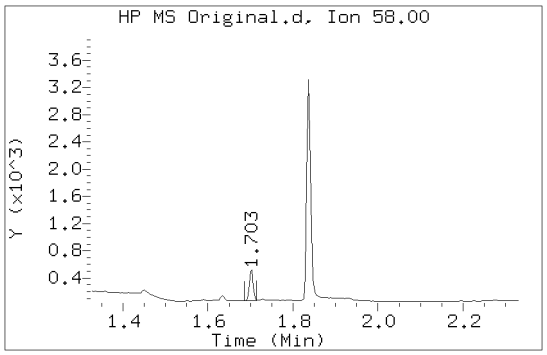


1,4-Dioxane ()

Reason Code:

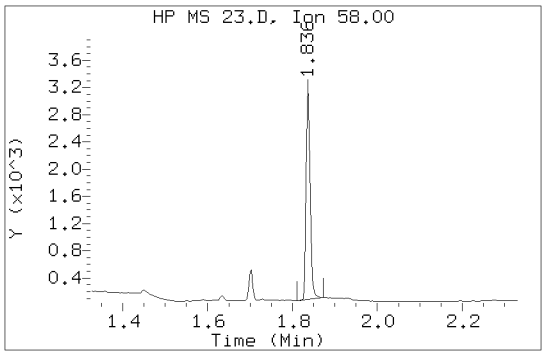
BEFORE

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



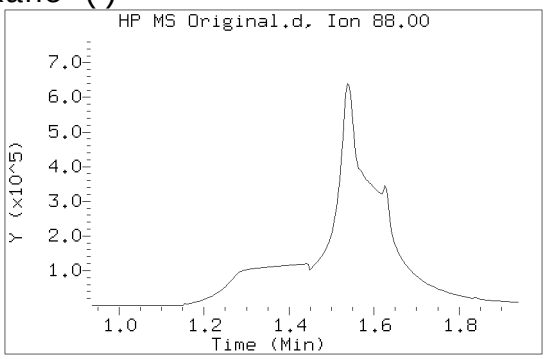
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D
Inj Date : 26-JAN-2023 18:34
InstruID : SV6.i
LabSampID : 1 4-DX-0.15

1,4-Dioxane ()

Reason Code:

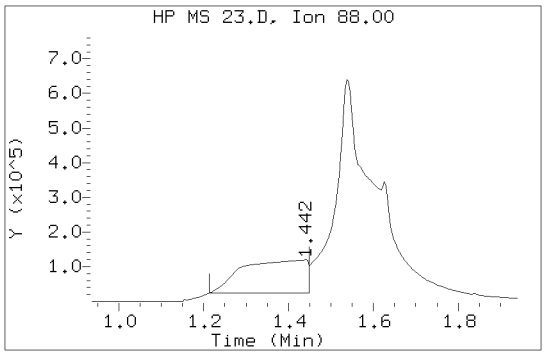
BEFORE

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

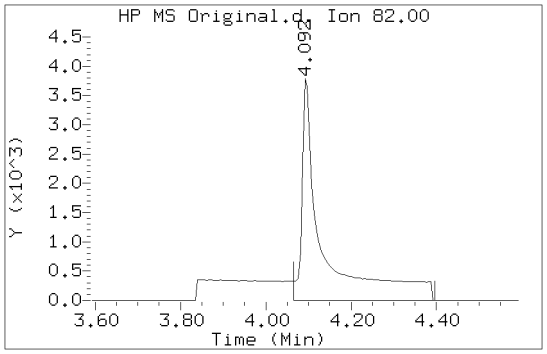


Nitrobenzene-d5 (4165-60-0)

Reason Code:

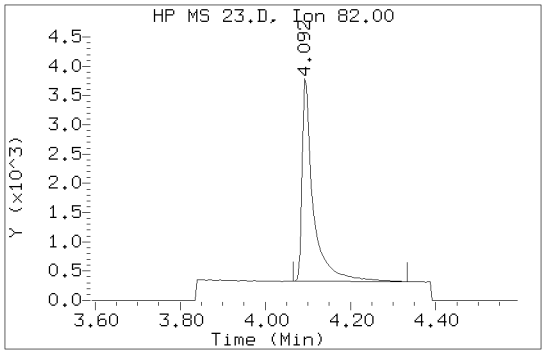
BEFORE

MASS
82
AREA
12644
HEIGHT
3788
26-Jan-2023
18:48
ALSHS
Server



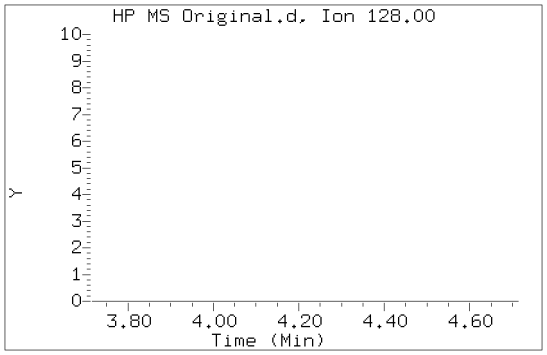
AFTER

MASS
82
AREA
6376
HEIGHT
3464
27-Jan-2023
11:55



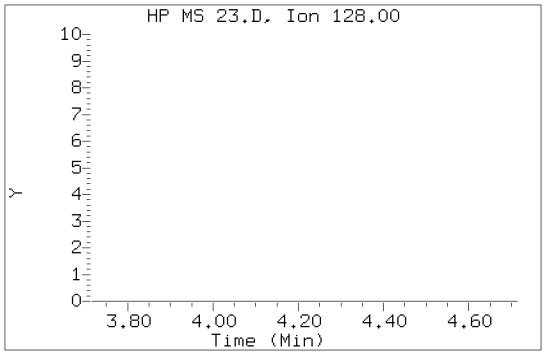
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
18:48
ALSHS
Server



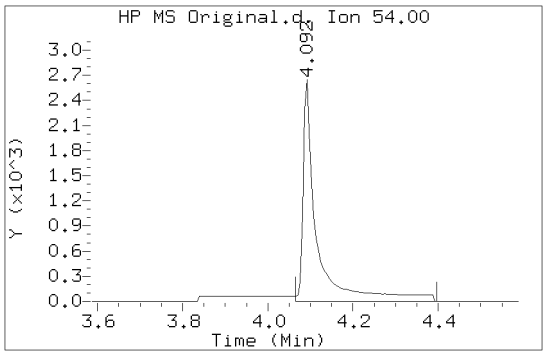
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



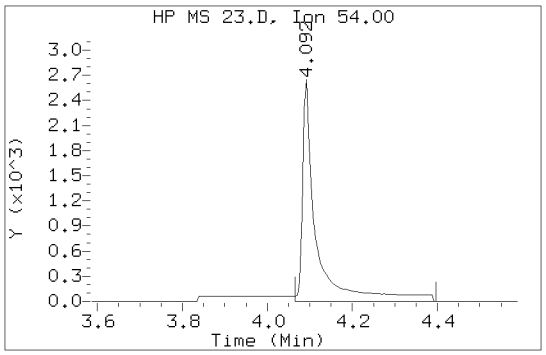
BEFORE

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



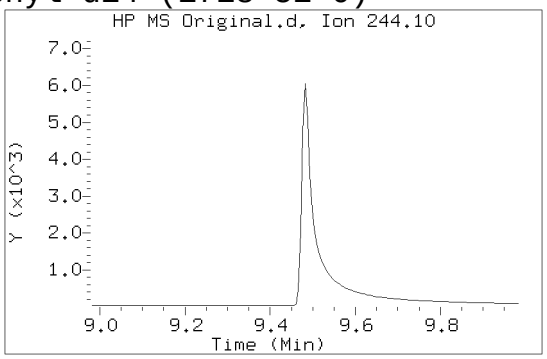
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D
Inj Date : 26-JAN-2023 18:34
InstruID : SV6.i
LabSampID : 1 4-DX-0.15

4-Terphenyl-d14 (1718-51-0)

Reason Code:

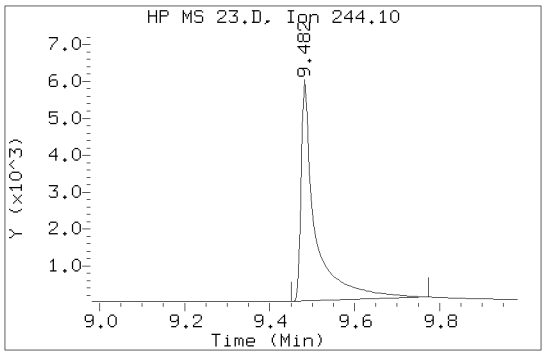
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
26-Jan-2023
18:48
ALSHS
Server



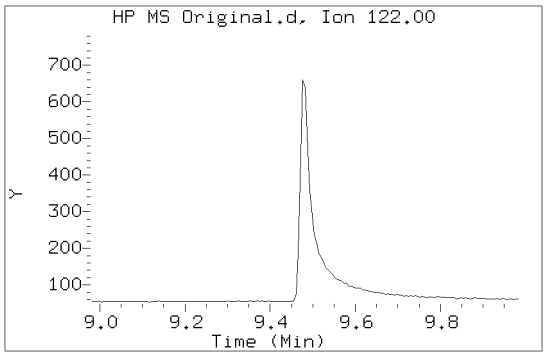
AFTER

MASS
244.1
AREA
13832
HEIGHT
5991
27-Jan-2023
11:55



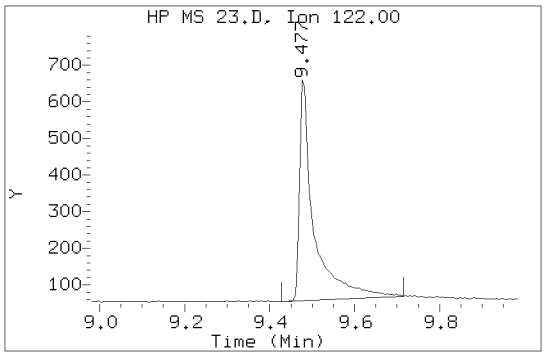
BEFORE

MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
18:48
ALSHS
Server



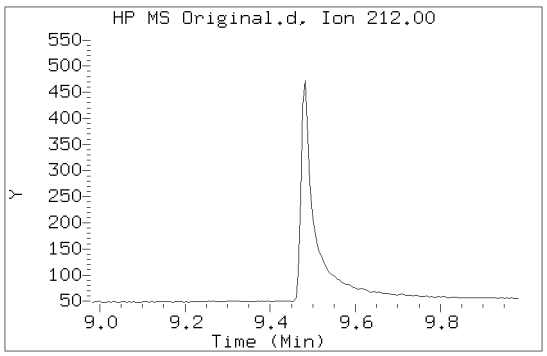
AFTER

MASS
122
AREA
1402
HEIGHT
602
27-Jan-2023
11:55



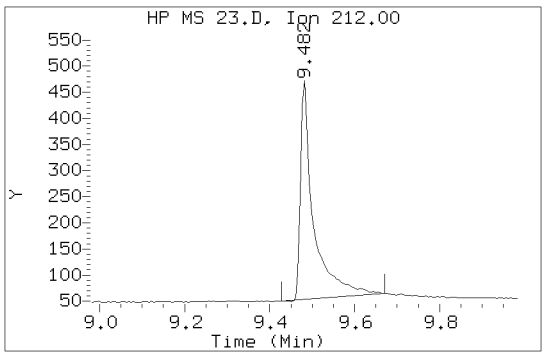
BEFORE

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

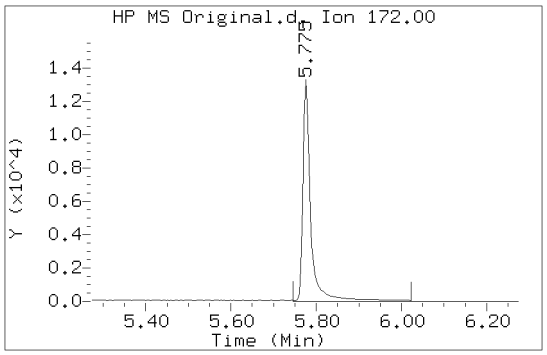


2-Fluorobiphenyl (321-60-8)

Reason Code:

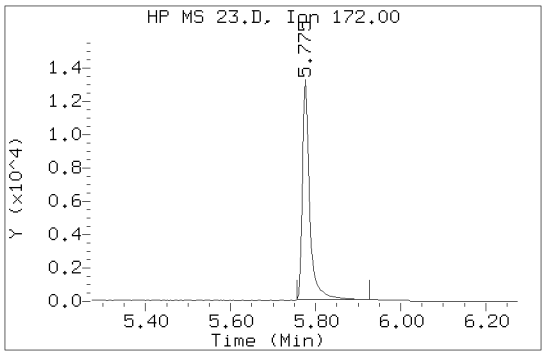
BEFORE

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



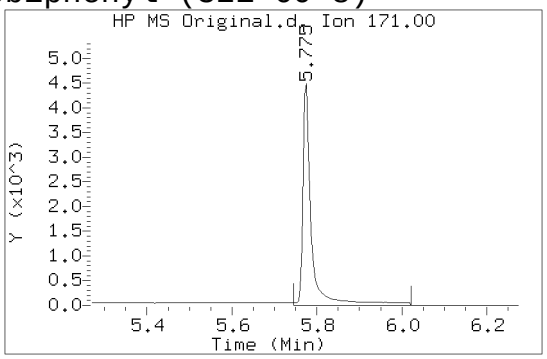
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\23.D
Inj Date : 26-JAN-2023 18:34
InstruID : SV6.i
LabSampID : 1 4-DX-0.15

2-Fluorobiphenyl (321-60-8)

Reason Code:

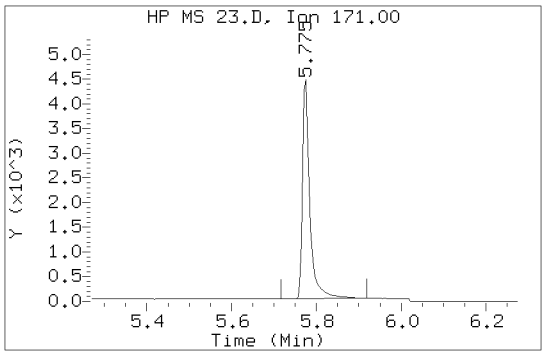
BEFORE

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



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.

01185593

Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D

Page 1

Date : 26-JAN-2023 18:51

Client ID: 1 4-DX-0.2

Instrument: SV6.i

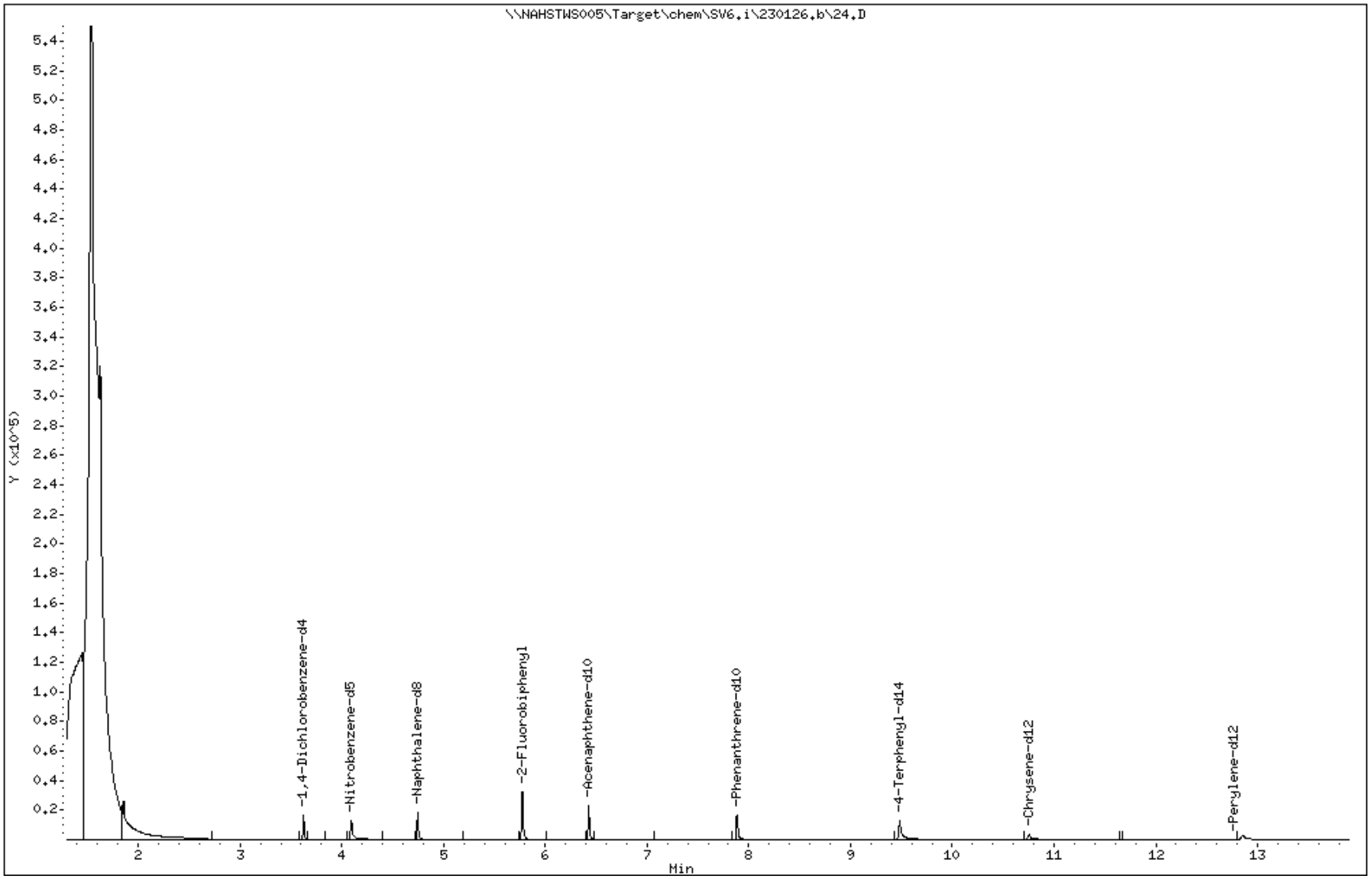
Sample Info: 1 4-DX-0.2;1 4-DX-0.2

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



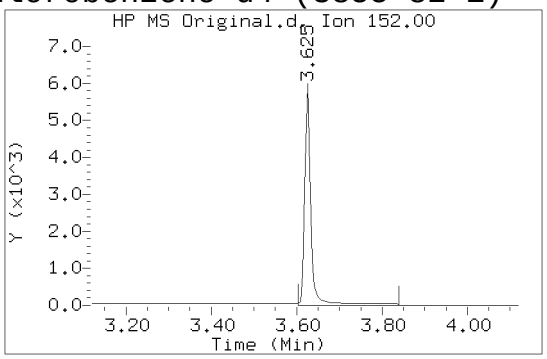
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D
Inj Date : 26-JAN-2023 18:51
InstruID : SV6.i
LabSampID : 1 4-DX-0.2

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

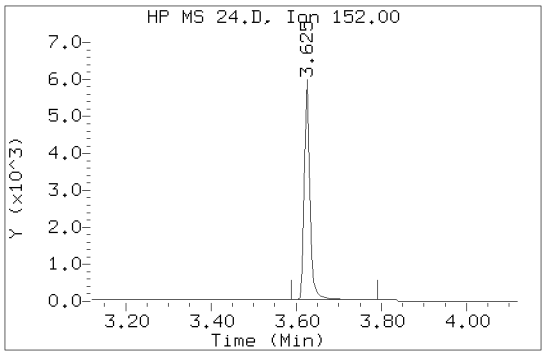
BEFORE

MASS
152
AREA
6088
HEIGHT
5993
26-Jan-2023
19:06
ALSHS
Server



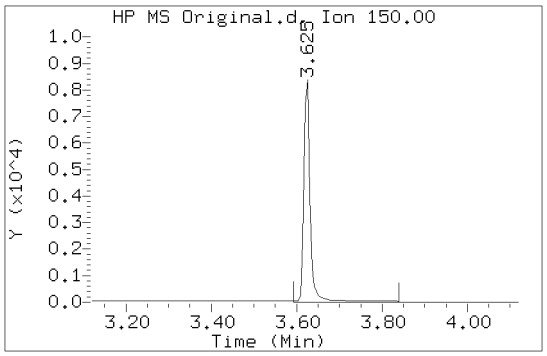
AFTER

MASS
152
AREA
5356
HEIGHT
5942
27-Jan-2023
11:55



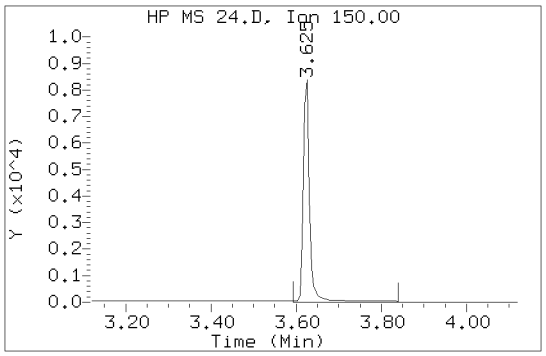
BEFORE

MASS
150
AREA
8795
HEIGHT
8381
26-Jan-2023
19:06
ALSHS
Server



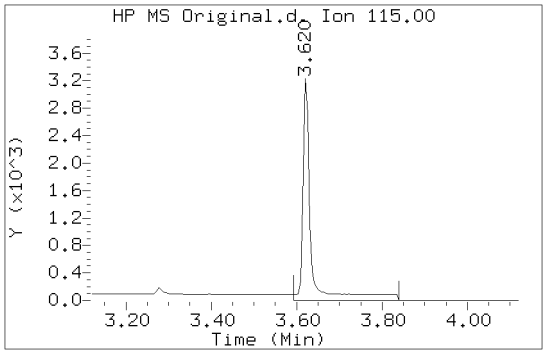
AFTER

MASS
150
AREA
8795
HEIGHT
8381
27-Jan-2023
11:55



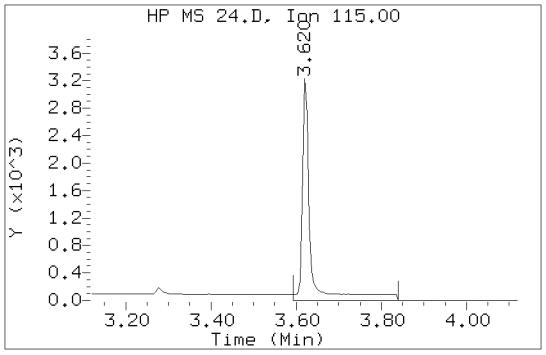
BEFORE

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

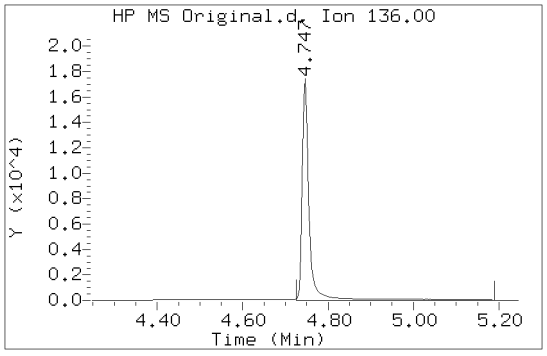


Naphthalene-d8 (1146-65-2)

Reason Code:

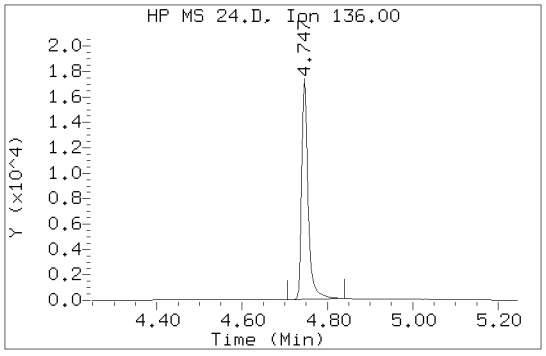
BEFORE

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



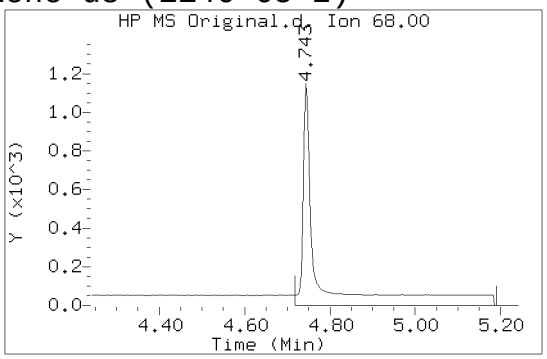
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D
Inj Date : 26-JAN-2023 18:51
InstruID : SV6.i
LabSampID : 1 4-DX-0.2

Naphthalene-d8 (1146-65-2)

Reason Code:

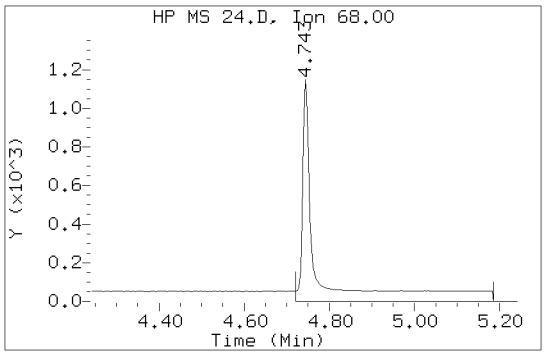
BEFORE

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

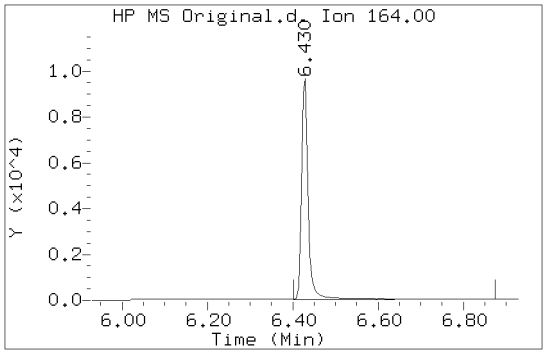


Acenaphthene-d10 (15067-26-2)

Reason Code:

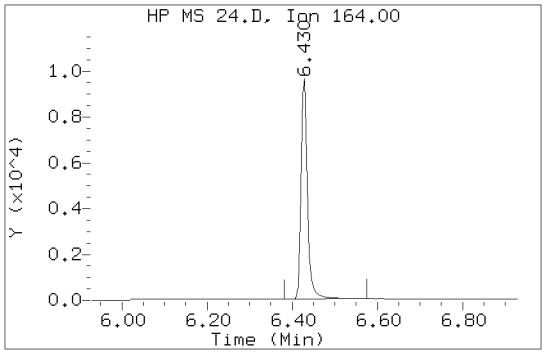
BEFORE

MASS
164
AREA
10835
HEIGHT
9644
26-Jan-2023
19:06
ALSHS
Server



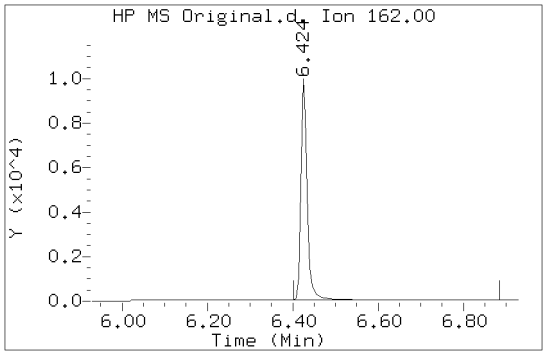
AFTER

MASS
164
AREA
10240
HEIGHT
9610
27-Jan-2023
11:55



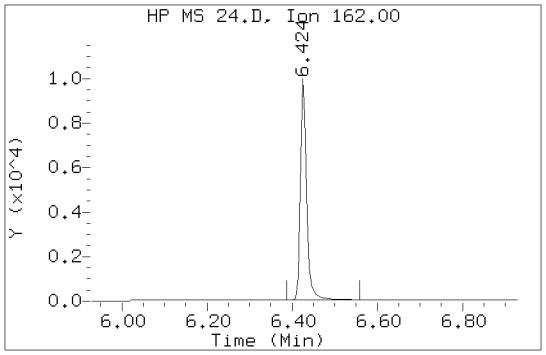
BEFORE

MASS
162
AREA
10270
HEIGHT
9933
26-Jan-2023
19:06
ALSHS
Server



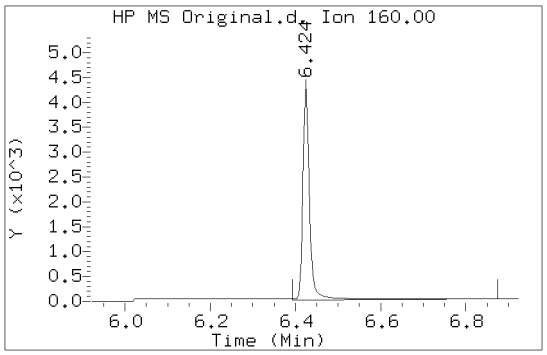
AFTER

MASS
162
AREA
10161
HEIGHT
9932
27-Jan-2023
11:55



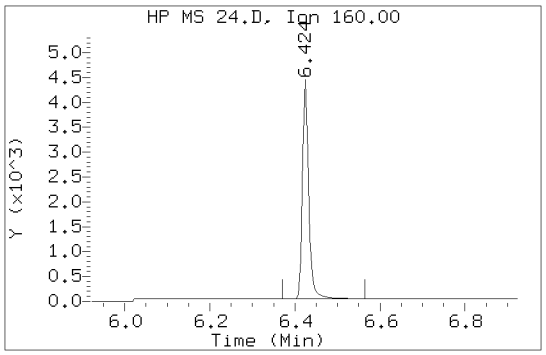
BEFORE

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



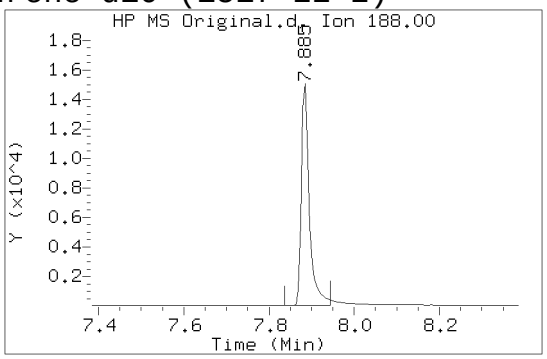
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D
Inj Date : 26-JAN-2023 18:51
InstruID : SV6.i
LabSampID : 1 4-DX-0.2

Phenanthrene-d10 (1517-22-2)

Reason Code:

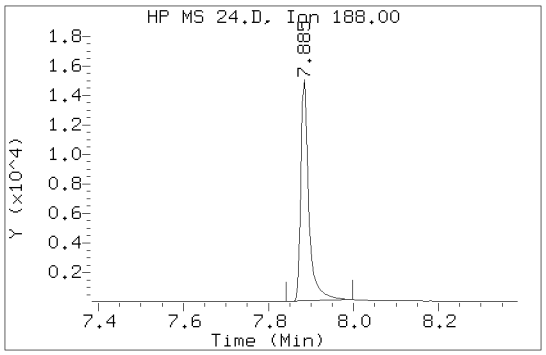
BEFORE

MASS
188
AREA
19386
HEIGHT
15029
26-Jan-2023
19:06
ALSHS
Server



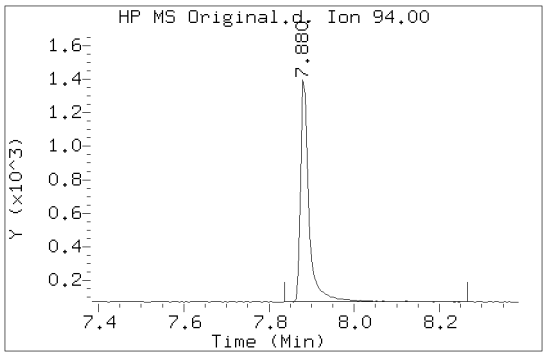
AFTER

MASS
188
AREA
19448
HEIGHT
14998
27-Jan-2023
11:55



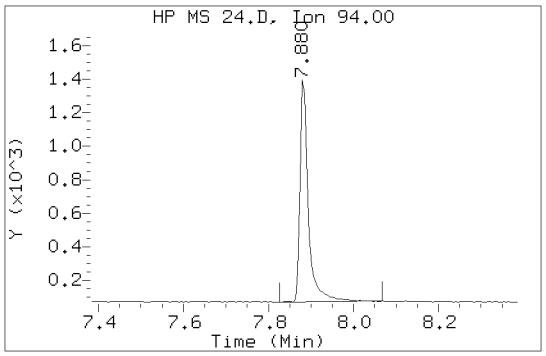
BEFORE

MASS
94
AREA
1839
HEIGHT
1327
26-Jan-2023
19:06
ALSHS
Server



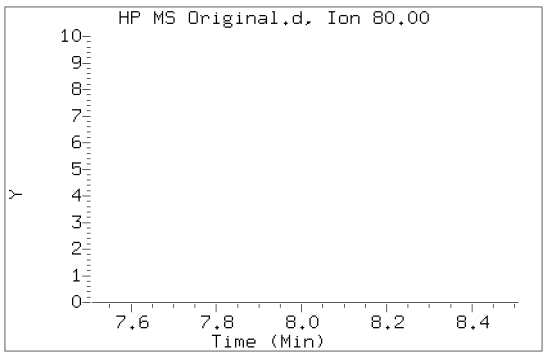
AFTER

MASS
94
AREA
1800
HEIGHT
1326
27-Jan-2023
11:55



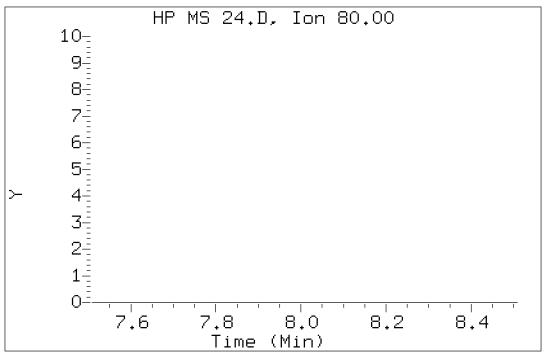
BEFORE

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

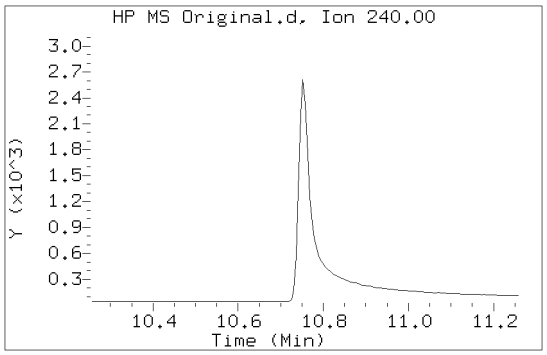


Chrysene-d12 (1719-03-5)

Reason Code:

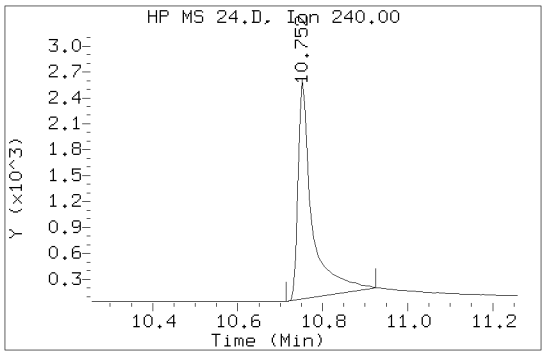
BEFORE

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

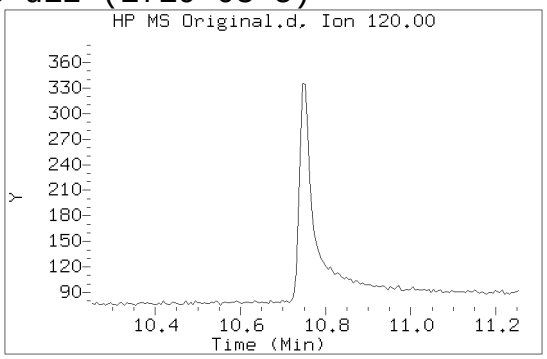


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D
Inj Date : 26-JAN-2023 18:51
InstruID : SV6.i
LabSampID : 1 4-DX-0.2

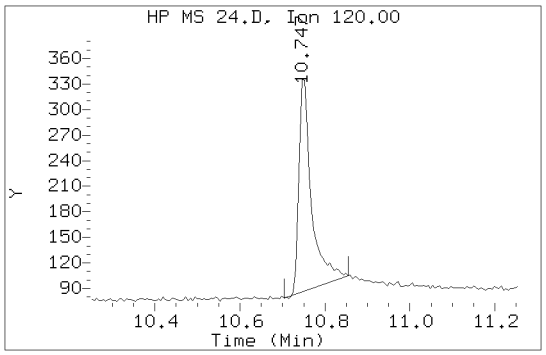
Chrysene-d12 (1719-03-5)

Reason Code:

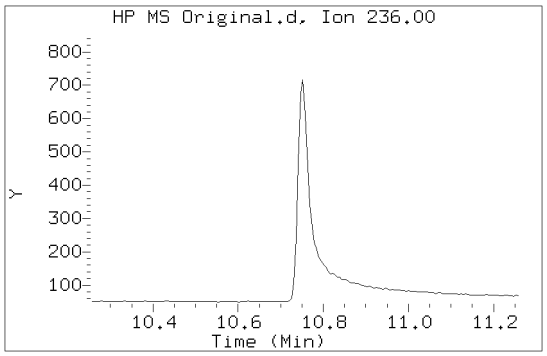
BEFORE
MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
19:06
ALSHS
Server



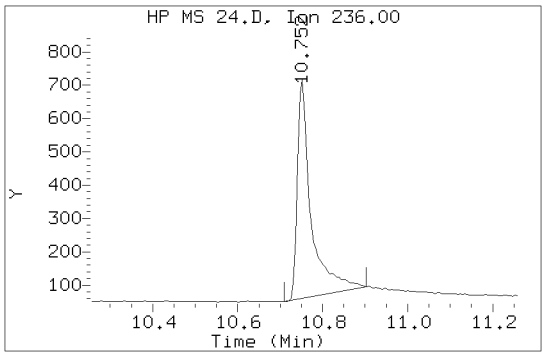
AFTER
MASS
120
AREA
511
HEIGHT
248
27-Jan-2023
11:55



BEFORE
MASS
236
AREA
0
HEIGHT
0
26-Jan-2023
19:06
ALSHS
Server



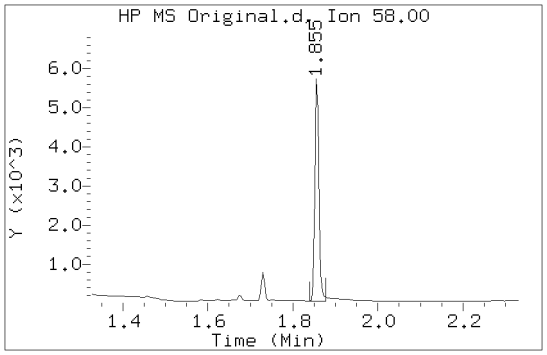
AFTER
MASS
236
AREA
1471
HEIGHT
655
27-Jan-2023
11:55



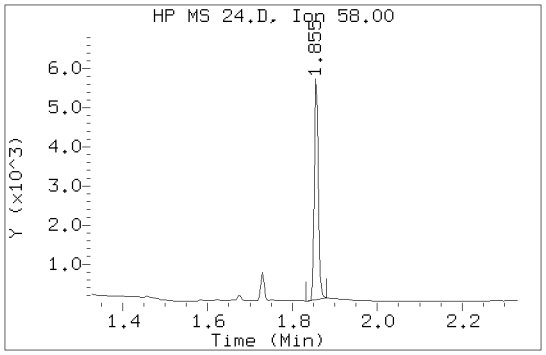
1,4-Dioxane ()

Reason Code:

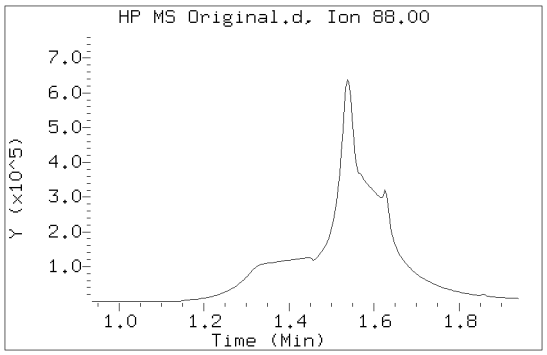
BEFORE
MASS
58
AREA
3790
HEIGHT
5675
26-Jan-2023
19:06
ALSHS
Server



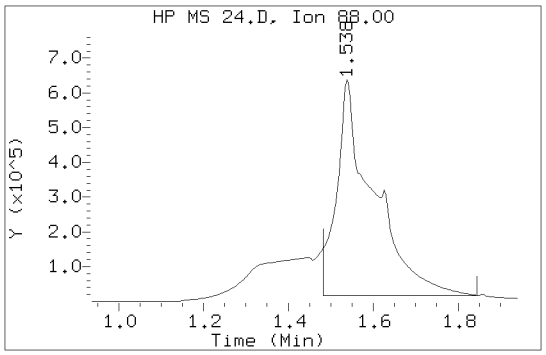
AFTER
MASS
58
AREA
3683
HEIGHT
5638
27-Jan-2023
11:55



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



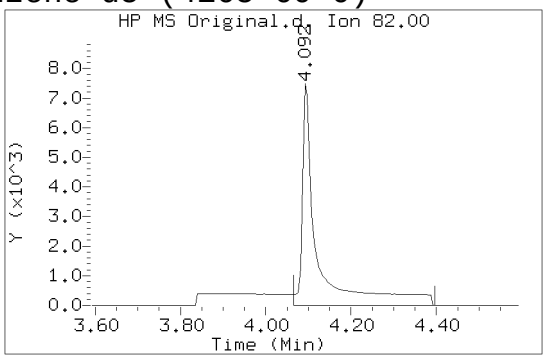
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D
Inj Date : 26-JAN-2023 18:51
InstruID : SV6.i
LabSampID : 1 4-DX-0.2

Nitrobenzene-d5 (4165-60-0)

Reason Code:

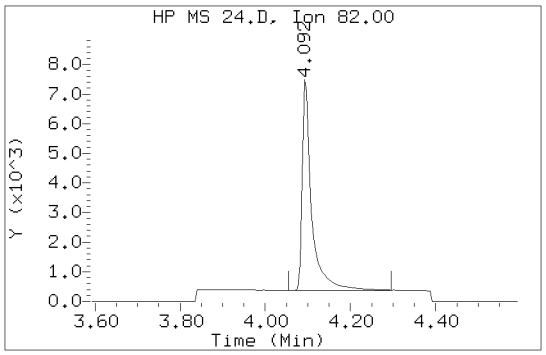
BEFORE

MASS
82
AREA
18228
HEIGHT
7484
26-Jan-2023
19:06
ALSHS
Server



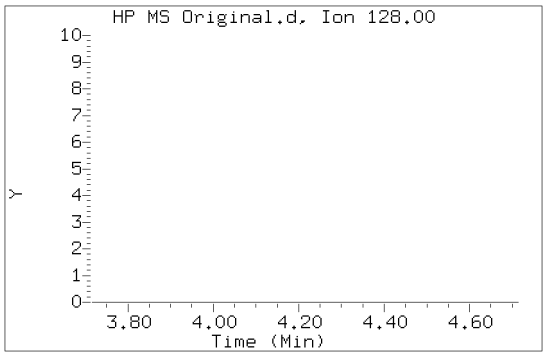
AFTER

MASS
82
AREA
11045
HEIGHT
7114
27-Jan-2023
11:55



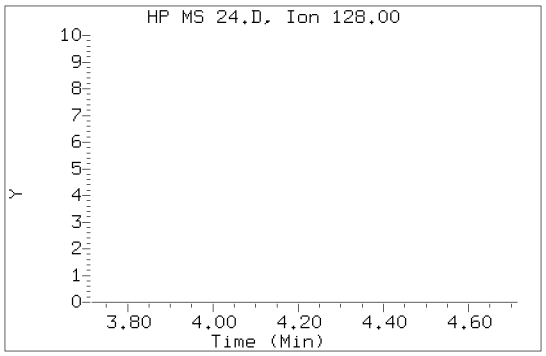
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
19:06
ALSHS
Server



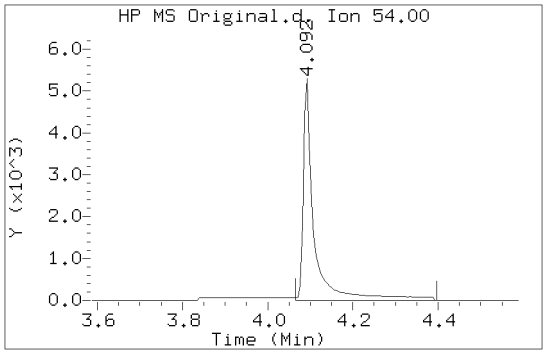
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



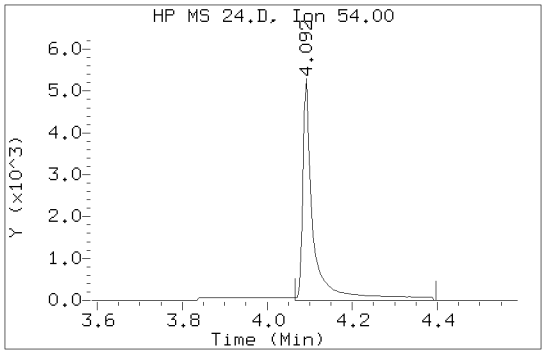
BEFORE

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

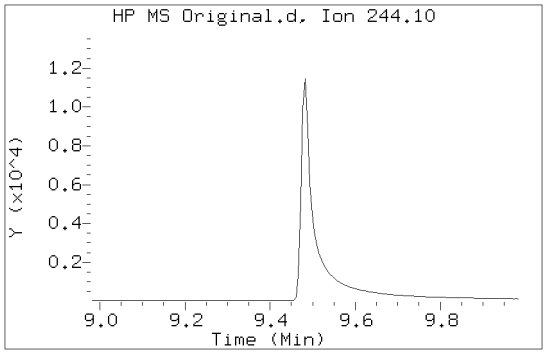


4-Terphenyl-d14 (1718-51-0)

Reason Code:

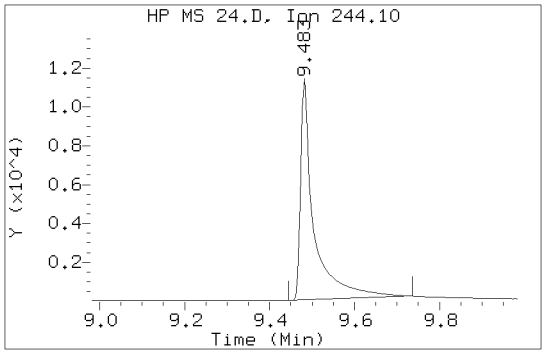
BEFORE

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



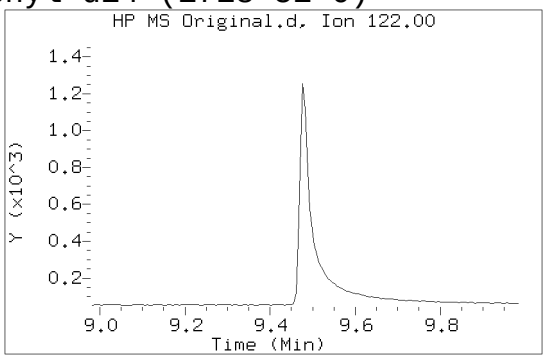
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\24.D
Inj Date : 26-JAN-2023 18:51
InstruID : SV6.i
LabSampID : 1 4-DX-0.2

4-Terphenyl-d14 (1718-51-0)

Reason Code:

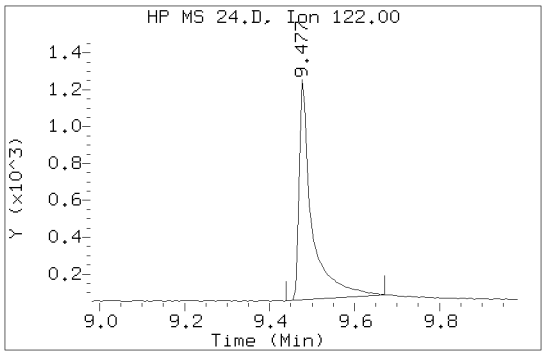
BEFORE

MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
19:06
ALSHS
Server



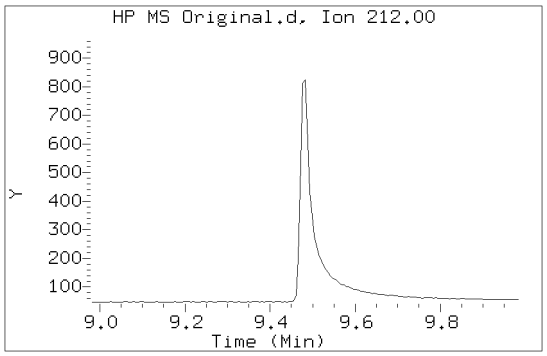
AFTER

MASS
122
AREA
2466
HEIGHT
1193
27-Jan-2023
11:55



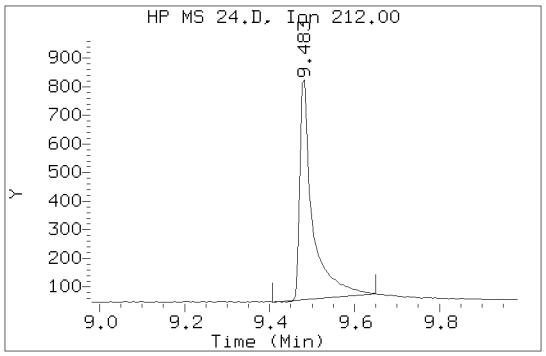
BEFORE

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

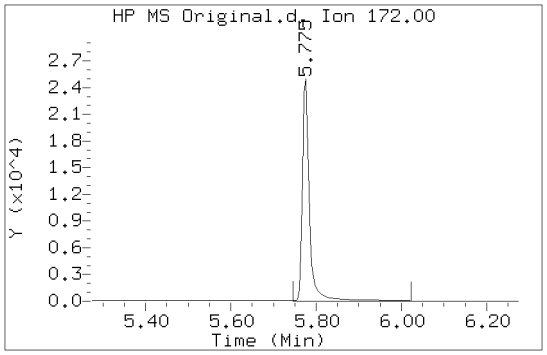


2-Fluorobiphenyl (321-60-8)

Reason Code:

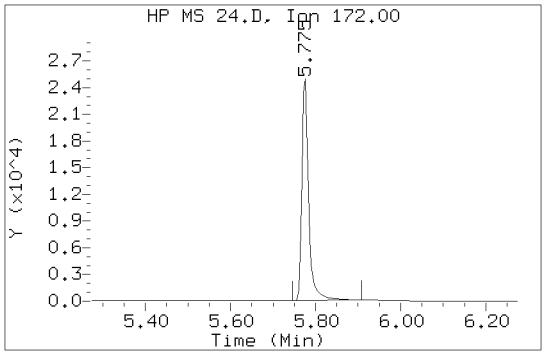
BEFORE

MASS
172
AREA
29099
HEIGHT
24976
26-Jan-2023
19:06
ALSHS
Server



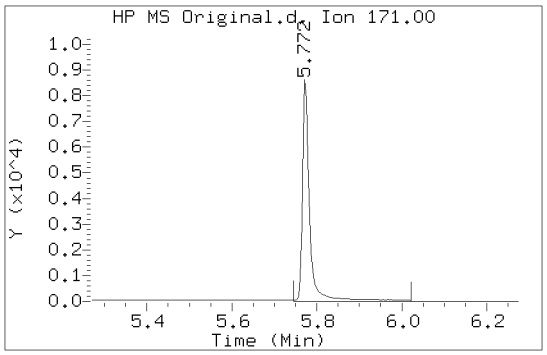
AFTER

MASS
172
AREA
27466
HEIGHT
24904
27-Jan-2023
11:55



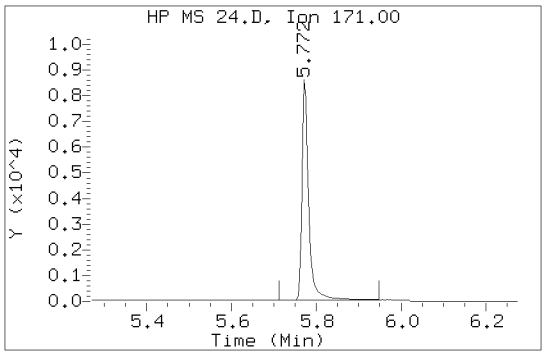
BEFORE

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)	AMOUNTS 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.

01185602

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

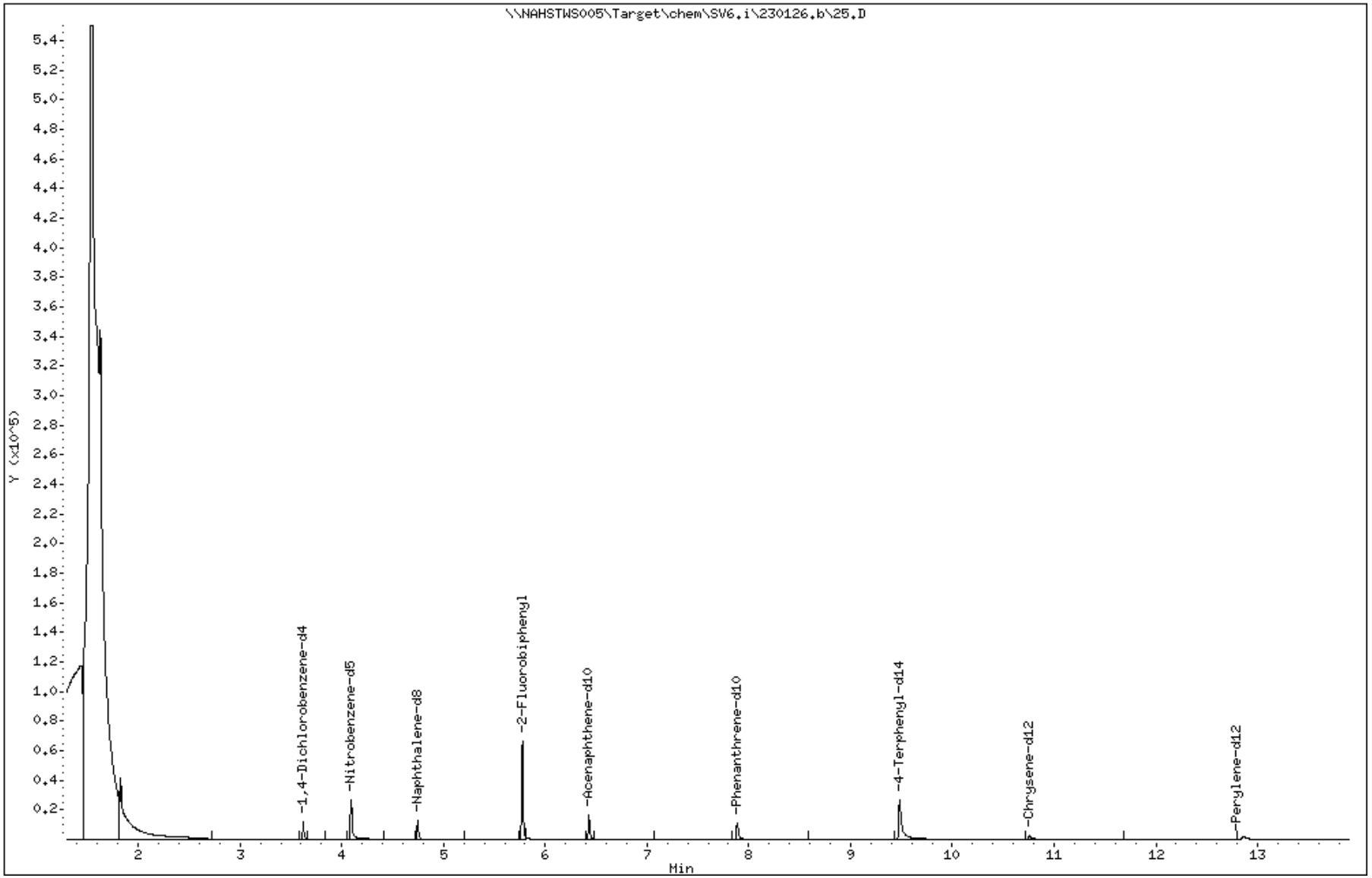
Sample Info: 1 4-DX-0.5;1 4-DX-0.5

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

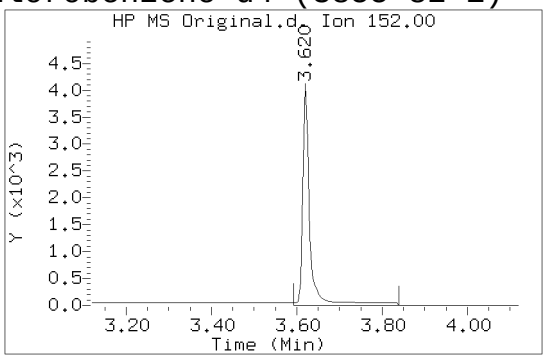


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\25.D
Inj Date : 26-JAN-2023 19:09
InstruID : SV6.i
LabSampID : 1 4-DX-0.5

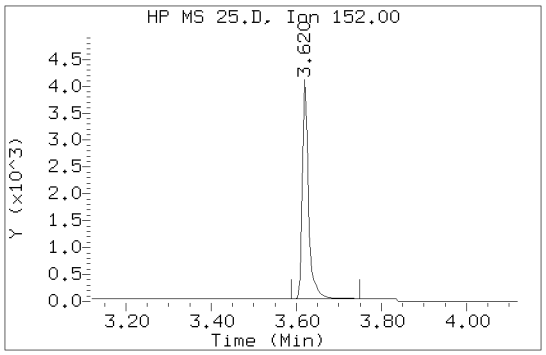
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

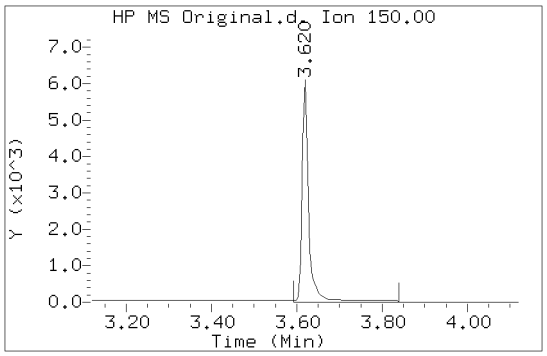
BEFORE
MASS
152
AREA
4746
HEIGHT
4125
26-Jan-2023
19:25
ALSHS
Server



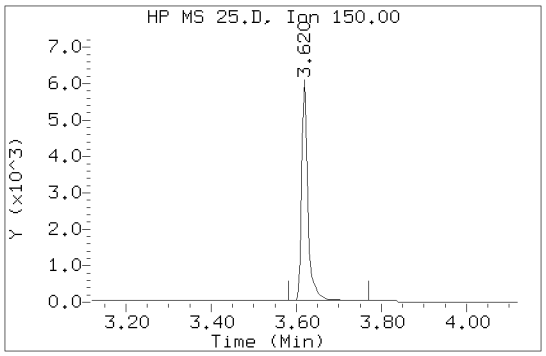
AFTER
MASS
152
AREA
3987
HEIGHT
4075
27-Jan-2023
11:55



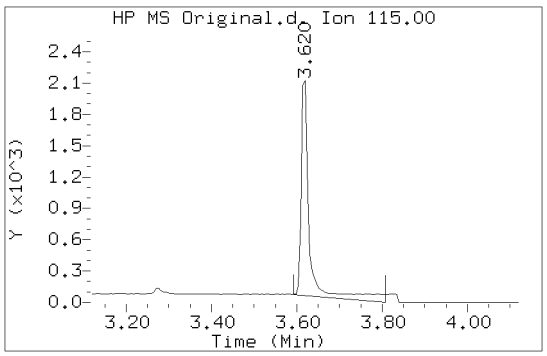
BEFORE
MASS
150
AREA
6719
HEIGHT
6101
26-Jan-2023
19:25
ALSHS
Server



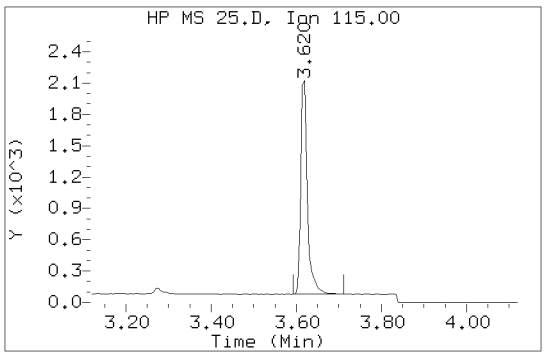
AFTER
MASS
150
AREA
5981
HEIGHT
6052
27-Jan-2023
11:55



BEFORE
MASS
115
AREA
2721
HEIGHT
2057
26-Jan-2023
19:25
ALSHS
Server



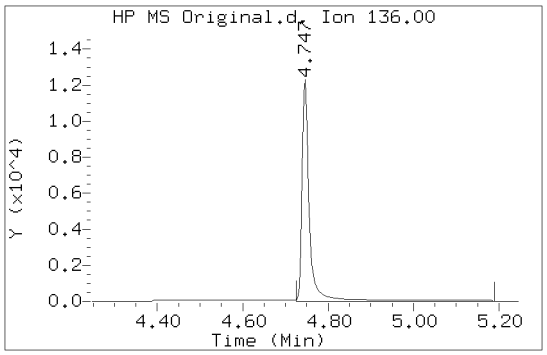
AFTER
MASS
115
AREA
2196
HEIGHT
2045
27-Jan-2023
11:55



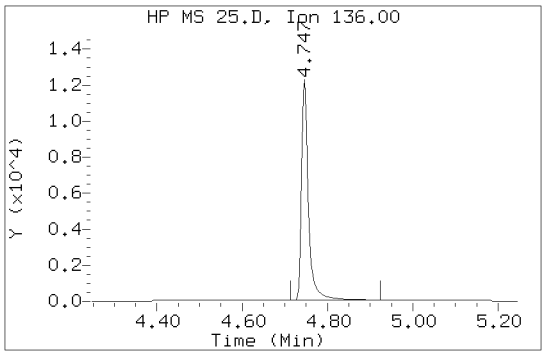
Naphthalene-d8 (1146-65-2)

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



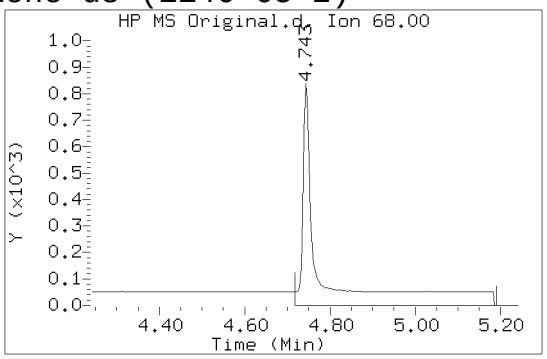
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\25.D
Inj Date : 26-JAN-2023 19:09
InstruID : SV6.i
LabSampID : 1 4-DX-0.5

Naphthalene-d8 (1146-65-2)

Reason Code:

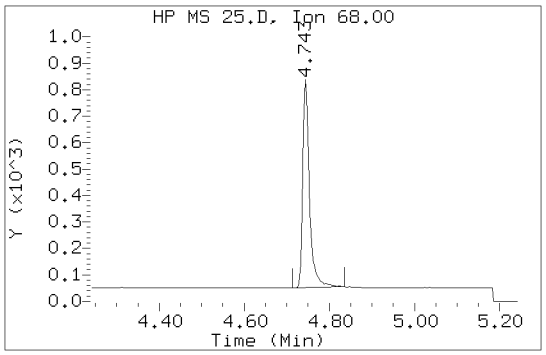
BEFORE

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

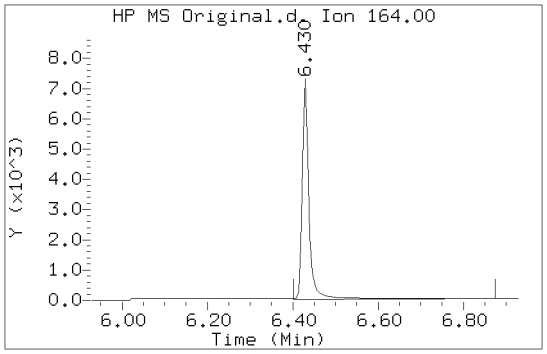


Acenaphthene-d10 (15067-26-2)

Reason Code:

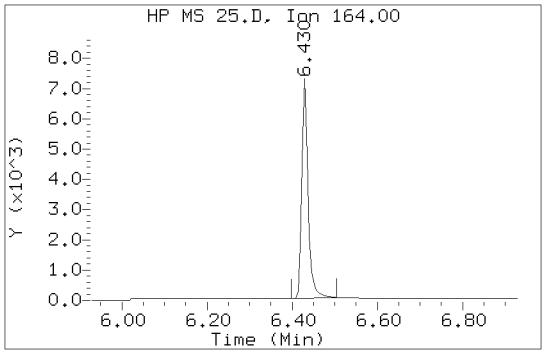
BEFORE

MASS
164
AREA
8287
HEIGHT
7297
26-Jan-2023
19:25
ALSHS
Server



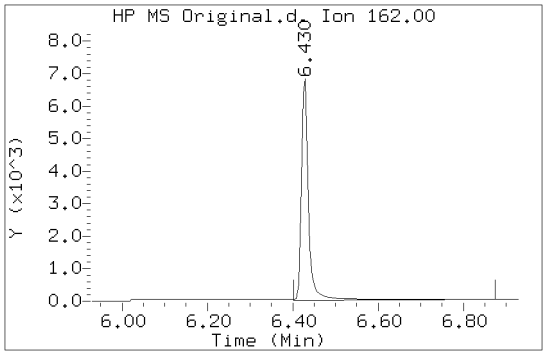
AFTER

MASS
164
AREA
7556
HEIGHT
7256
27-Jan-2023
11:55



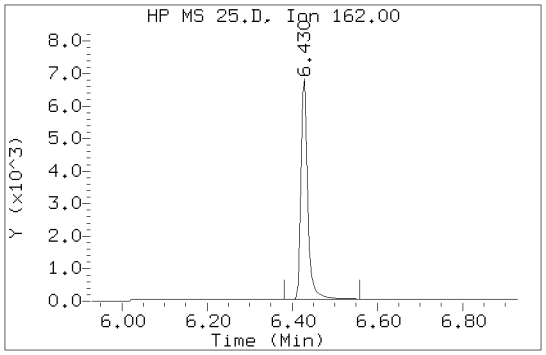
BEFORE

MASS
162
AREA
8184
HEIGHT
6810
26-Jan-2023
19:25
ALSHS
Server



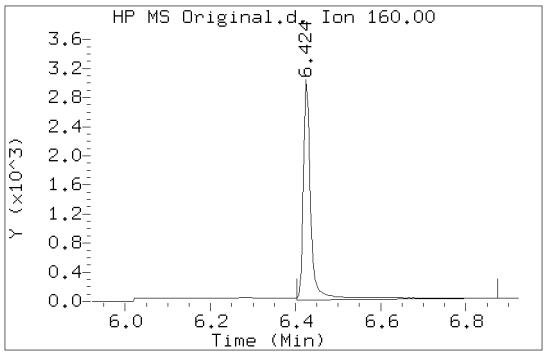
AFTER

MASS
162
AREA
7631
HEIGHT
6780
27-Jan-2023
11:55



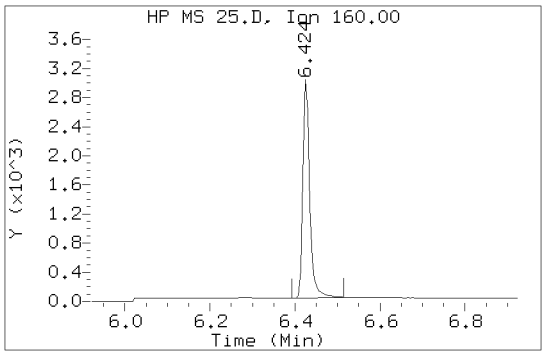
BEFORE

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

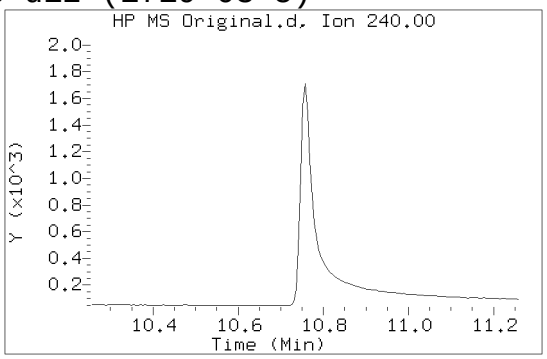


Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\25.D
Inj Date : 26-JAN-2023 19:09
InstruID : SV6.i
LabSampID : 1 4-DX-0.5

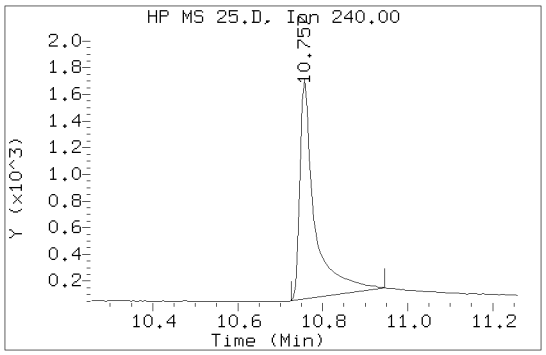
Chrysene-d12 (1719-03-5)

Reason Code:

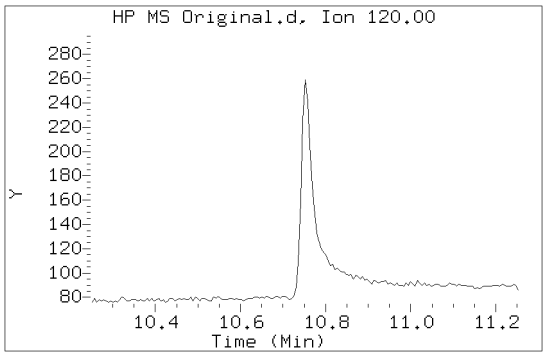
BEFORE
MASS
240
AREA
0
HEIGHT
0
26-Jan-2023
19:25
ALSHS
Server



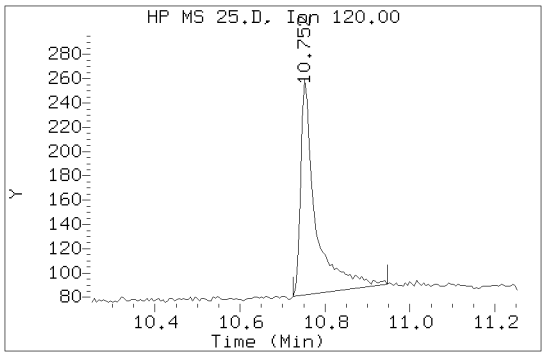
AFTER
MASS
240
AREA
3979
HEIGHT
1644
27-Jan-2023
11:55



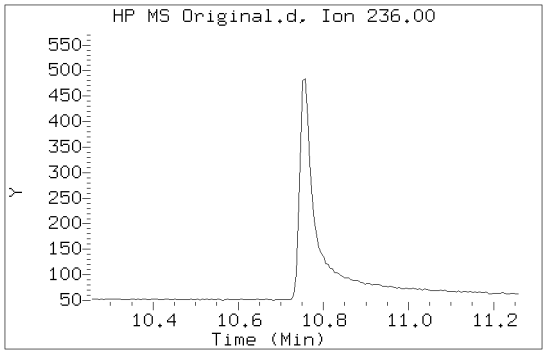
BEFORE
MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
19:25
ALSHS
Server



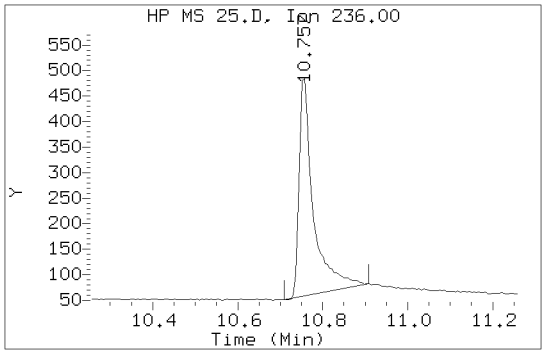
AFTER
MASS
120
AREA
428
HEIGHT
176
27-Jan-2023
11:55



BEFORE
MASS
236
AREA
0
HEIGHT
0
26-Jan-2023
19:25
ALSHS
Server



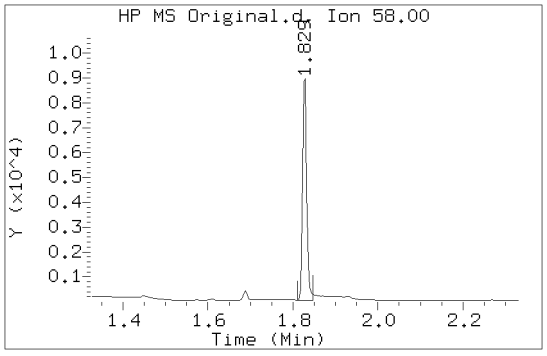
AFTER
MASS
236
AREA
988
HEIGHT
425
27-Jan-2023
11:55



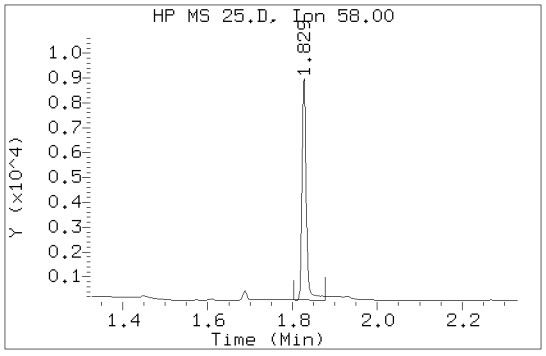
1,4-Dioxane ()

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



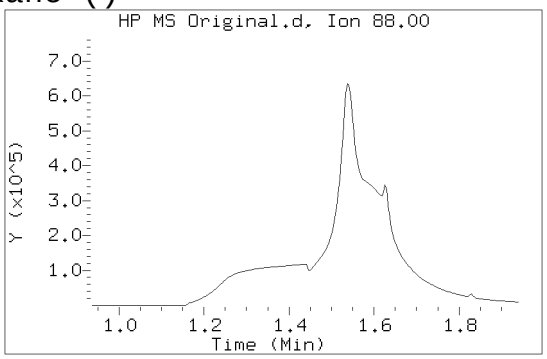
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\25.D
Inj Date : 26-JAN-2023 19:09
InstruID : SV6.i
LabSampID : 1 4-DX-0.5

1,4-Dioxane ()

Reason Code:

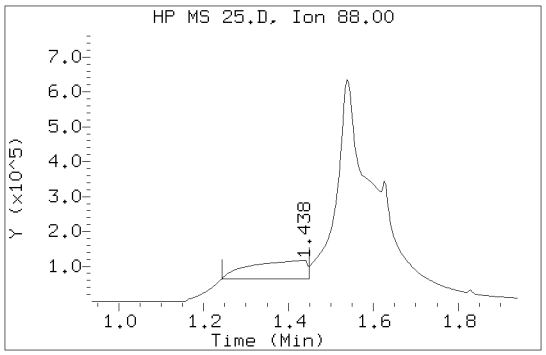
BEFORE

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

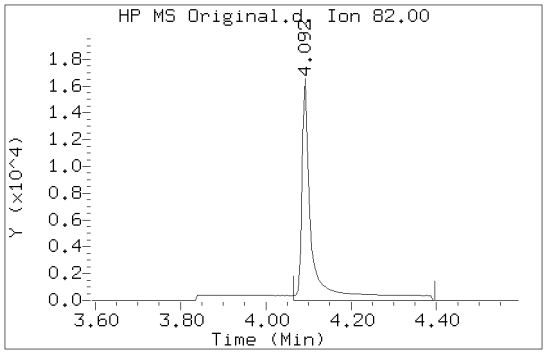


Nitrobenzene-d5 (4165-60-0)

Reason Code:

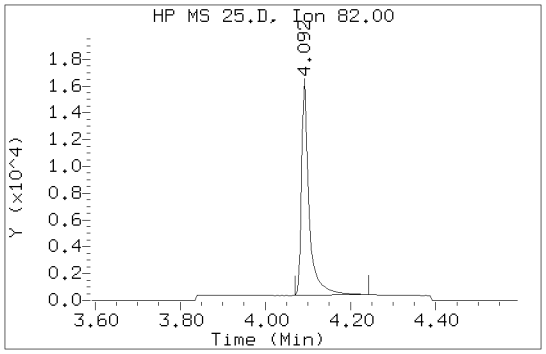
BEFORE

MASS
82
AREA
27706
HEIGHT
16544
26-Jan-2023
19:25
ALSHS
Server



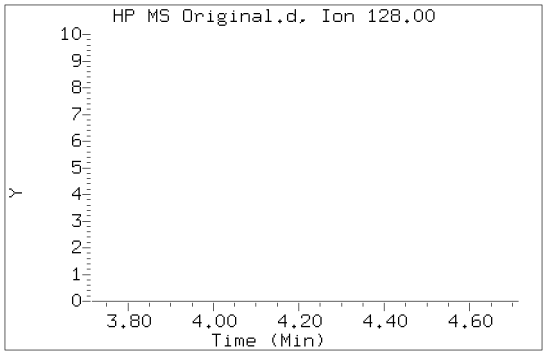
AFTER

MASS
82
AREA
20261
HEIGHT
16172
27-Jan-2023
11:55



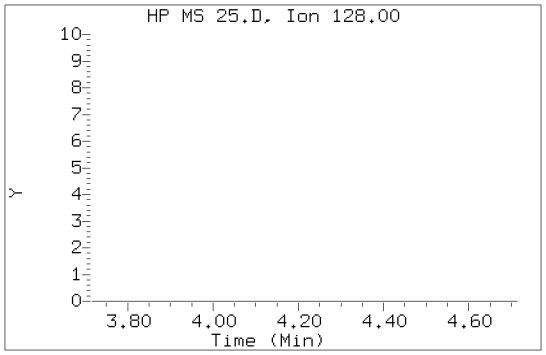
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
19:25
ALSHS
Server



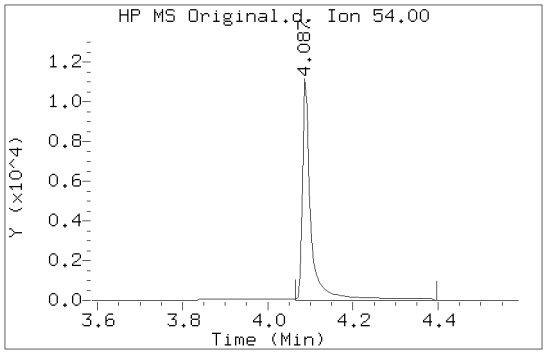
AFTER

MASS
128
AREA
0
HEIGHT
0
27-Jan-2023
11:55



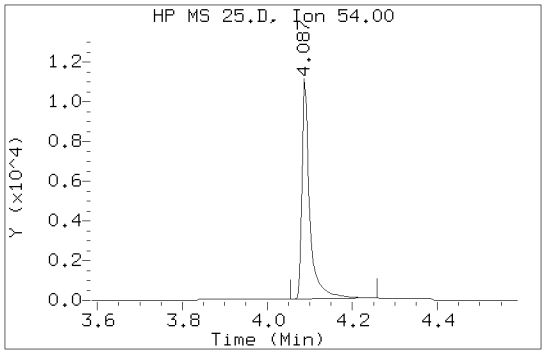
BEFORE

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



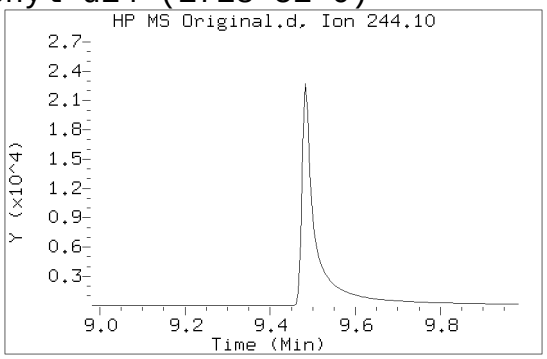
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\25.D
Inj Date : 26-JAN-2023 19:09
InstruID : SV6.i
LabSampID : 1 4-DX-0.5

4-Terphenyl-d14 (1718-51-0)

Reason Code:

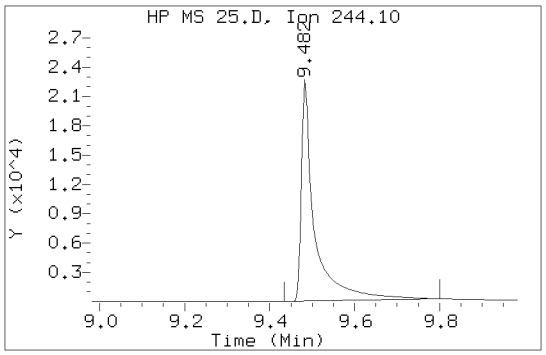
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
26-Jan-2023
19:25
ALSHS
Server



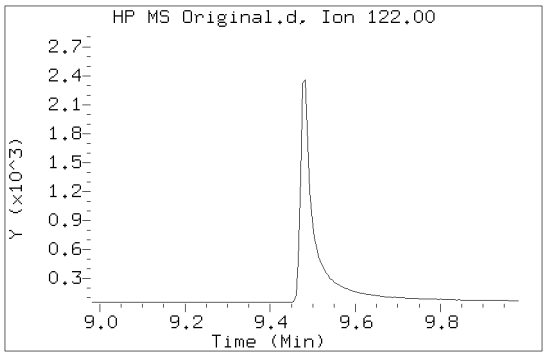
AFTER

MASS
244.1
AREA
48596
HEIGHT
22641
27-Jan-2023
11:55



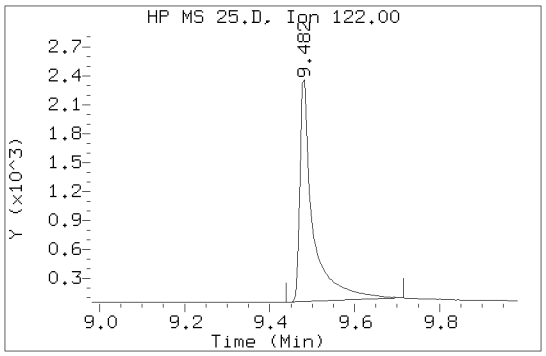
BEFORE

MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
19:25
ALSHS
Server



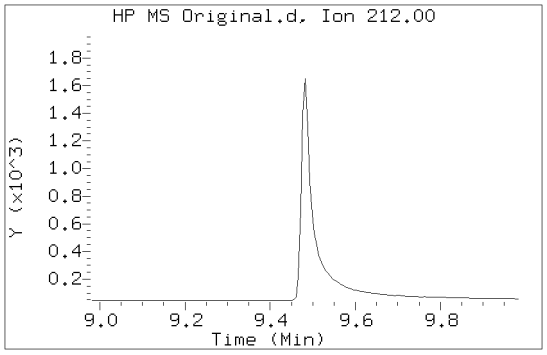
AFTER

MASS
122
AREA
4888
HEIGHT
2294
27-Jan-2023
11:55



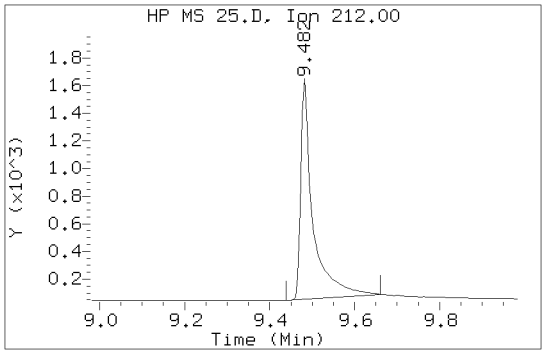
BEFORE

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

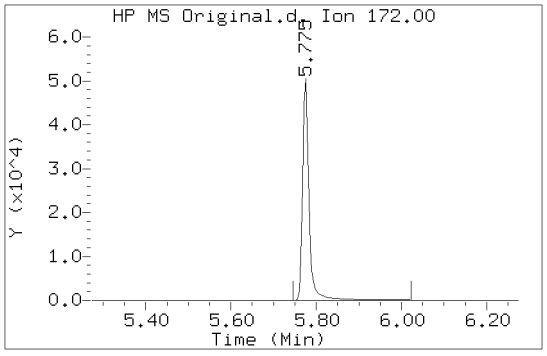


2-Fluorobiphenyl (321-60-8)

Reason Code:

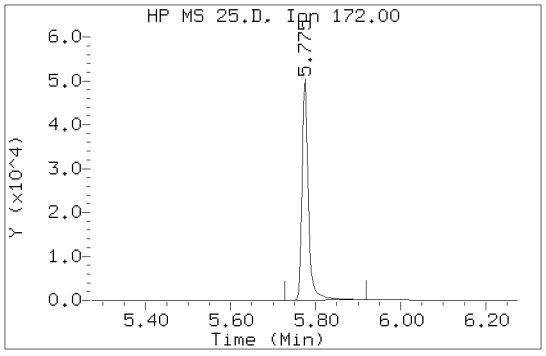
BEFORE

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



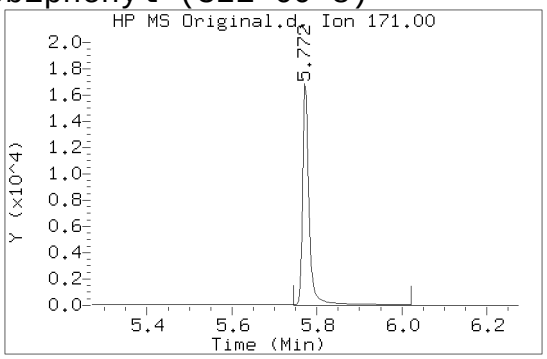
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\25.D
Inj Date : 26-JAN-2023 19:09
InstruID : SV6.i
LabSampID : 1 4-DX-0.5

2-Fluorobiphenyl (321-60-8)

Reason Code:

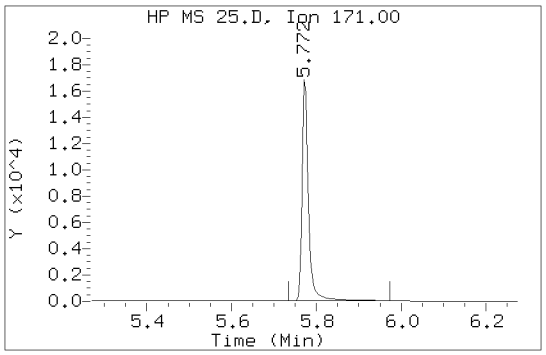
BEFORE

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



Data File: \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D Page 1
Report Date: 01-Feb-2023 16:40

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.

01185610

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

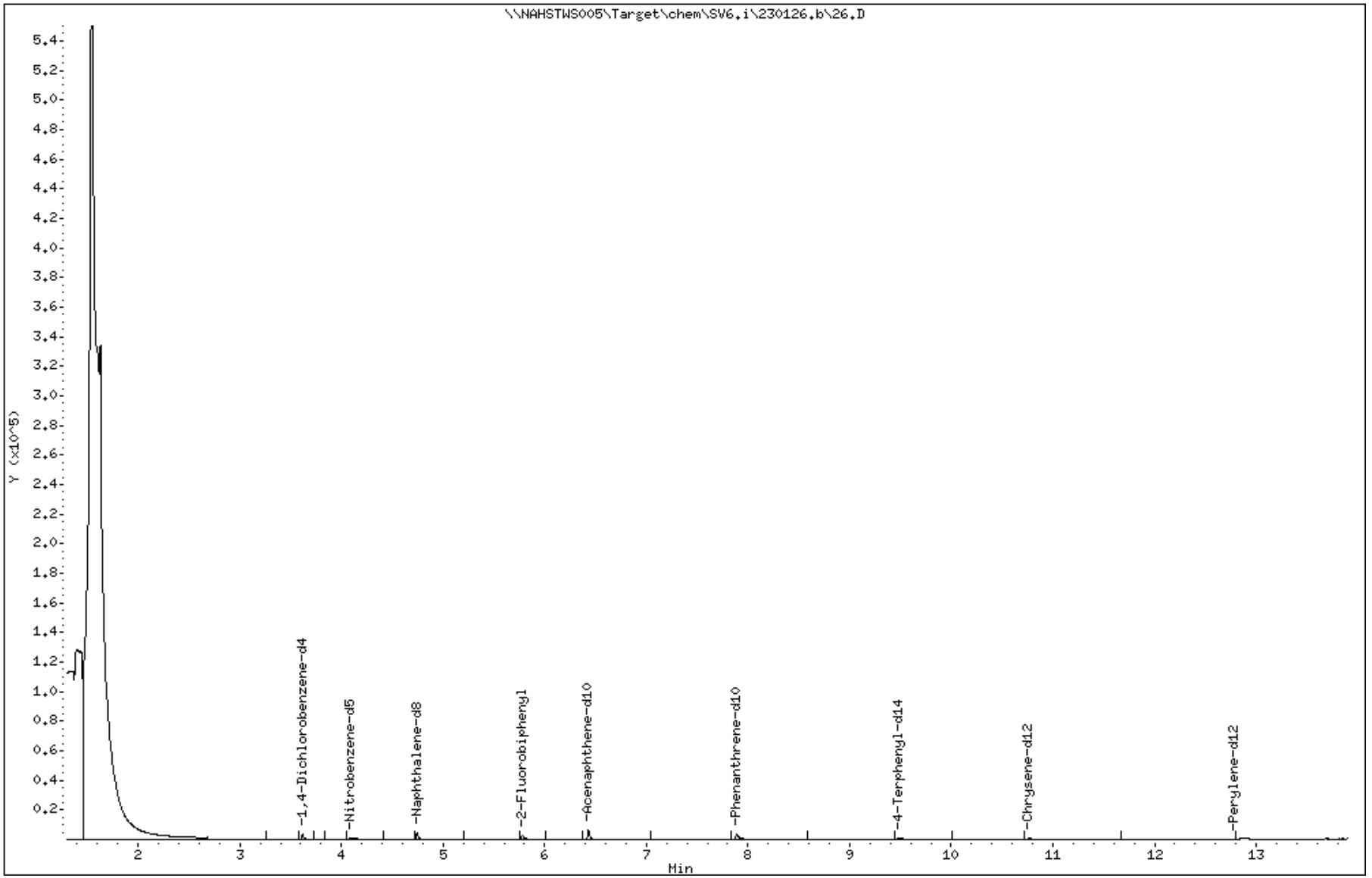
Sample Info: 1 4-DX-ICV;1 4-DX-ICV;3;;METHSPIKE

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



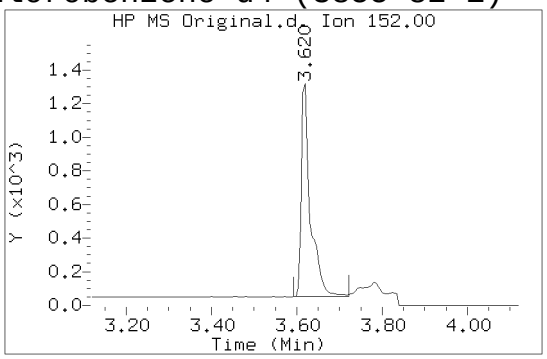
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D
Inj Date : 26-JAN-2023 19:27
InstruID : SV6.i
LabSampID : 1 4-DX-ICV

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

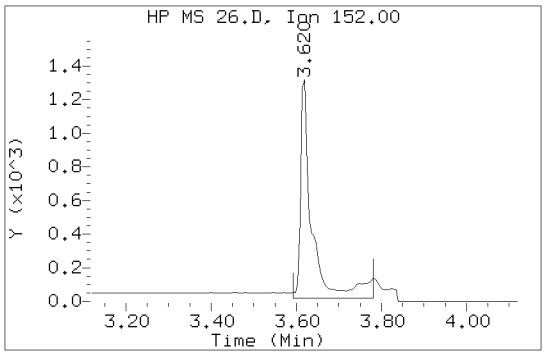
BEFORE

MASS
152
AREA
1846
HEIGHT
1267
26-Jan-2023
19:42
ALSHS
Server



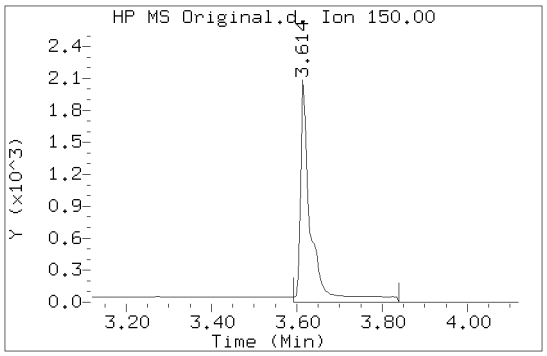
AFTER

MASS
152
AREA
2394
HEIGHT
1299
01-Feb-2023
16:40
ALSHS
Ser



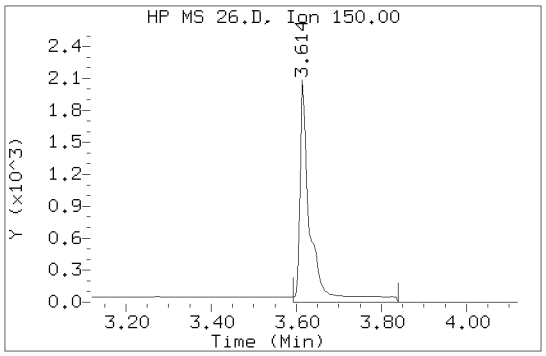
BEFORE

MASS
150
AREA
3511
HEIGHT
2086
26-Jan-2023
19:42
ALSHS
Server



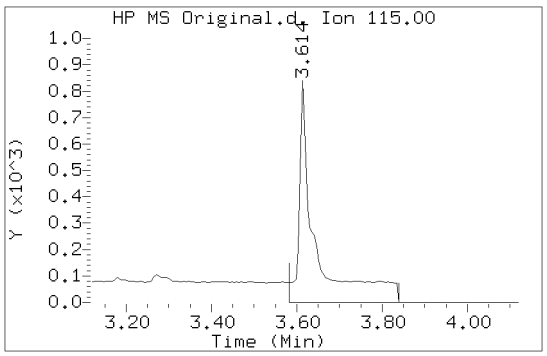
AFTER

MASS
150
AREA
3511
HEIGHT
2086
01-Feb-2023
16:40
ALSHS
Ser



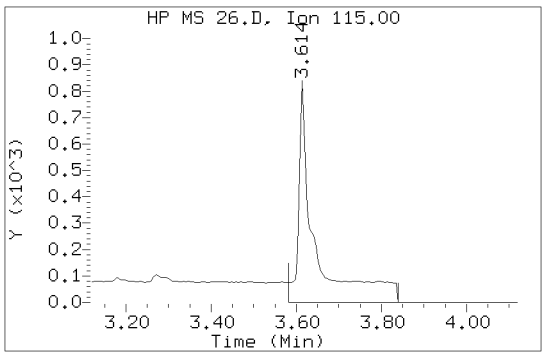
BEFORE

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

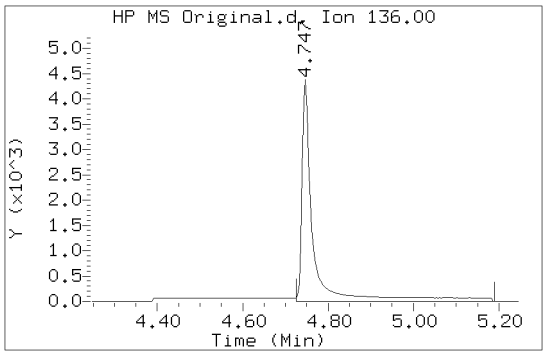


Naphthalene-d8 (1146-65-2)

Reason Code:

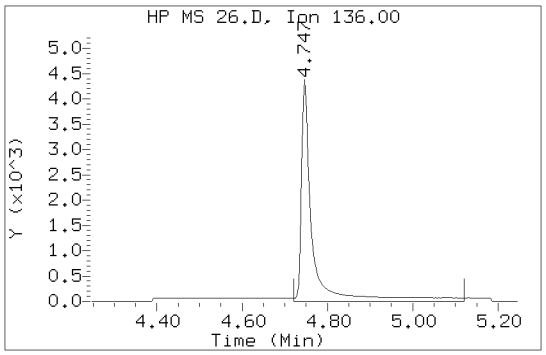
BEFORE

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



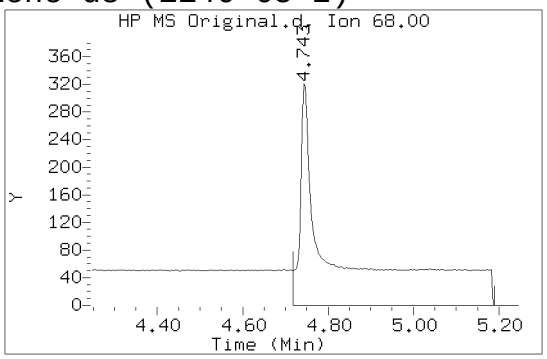
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D
Inj Date : 26-JAN-2023 19:27
InstruID : SV6.i
LabSampID : 1 4-DX-ICV

Naphthalene-d8 (1146-65-2)

Reason Code:

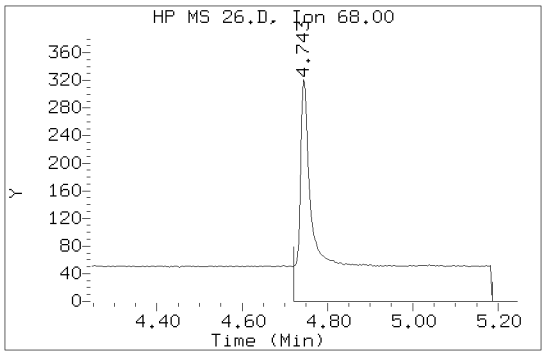
BEFORE

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

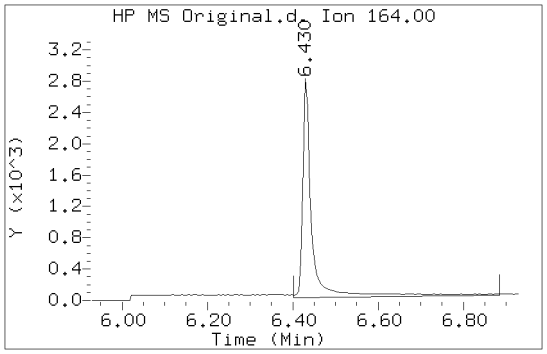


Acenaphthene-d10 (15067-26-2)

Reason Code:

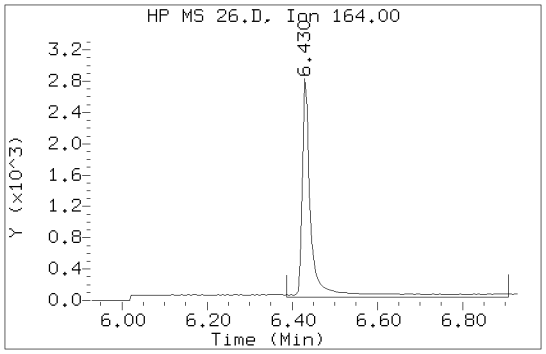
BEFORE

MASS
164
AREA
4223
HEIGHT
2796
26-Jan-2023
19:42
ALSHS
Server



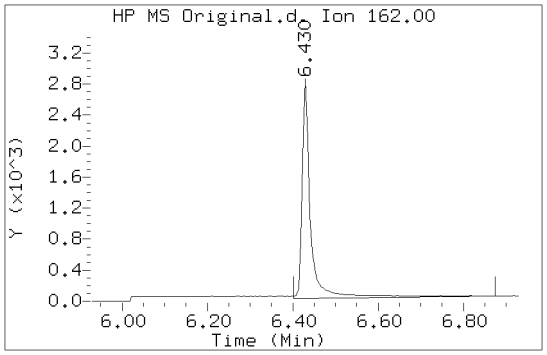
AFTER

MASS
164
AREA
4607
HEIGHT
2791
01-Feb-2023
16:40
ALSHS
Ser



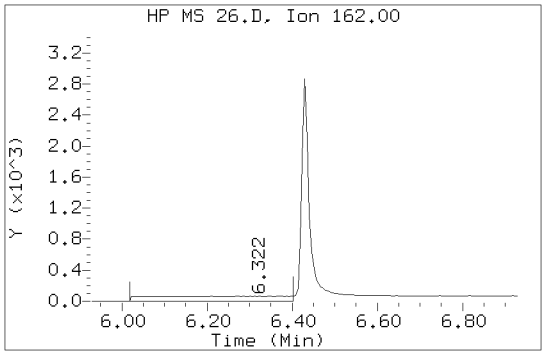
BEFORE

MASS
162
AREA
4065
HEIGHT
2834
26-Jan-2023
19:42
ALSHS
Server



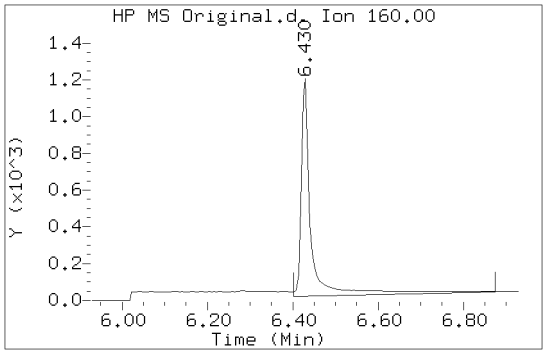
AFTER

MASS
162
AREA
1418
HEIGHT
65
01-Feb-2023
16:40
ALSHS
Ser



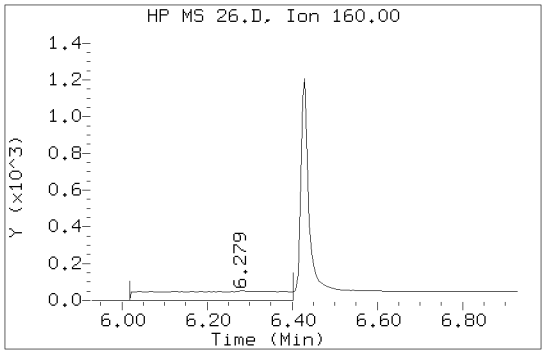
BEFORE

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



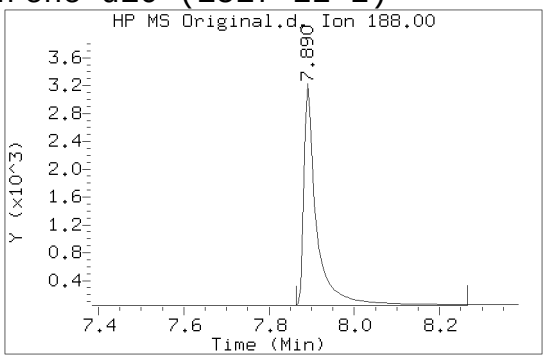
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D
Inj Date : 26-JAN-2023 19:27
InstruID : SV6.i
LabSampID : 1 4-DX-ICV

Phenanthrene-d10 (1517-22-2)

Reason Code:

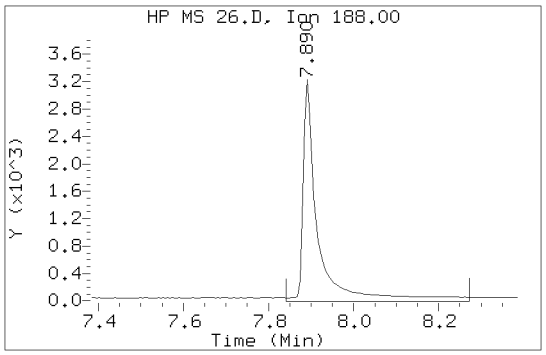
BEFORE

MASS
188
AREA
6555
HEIGHT
3181
26-Jan-2023
19:42
ALSHS
Server



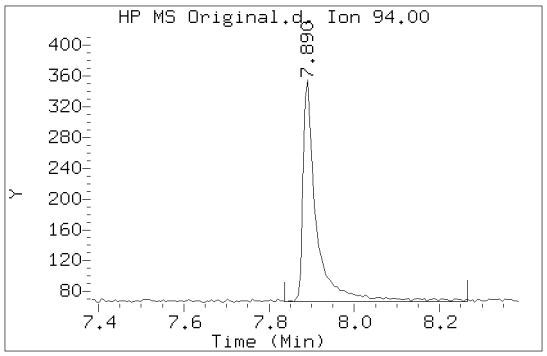
AFTER

MASS
188
AREA
7915
HEIGHT
3233
01-Feb-2023
16:40
ALSHS
Ser



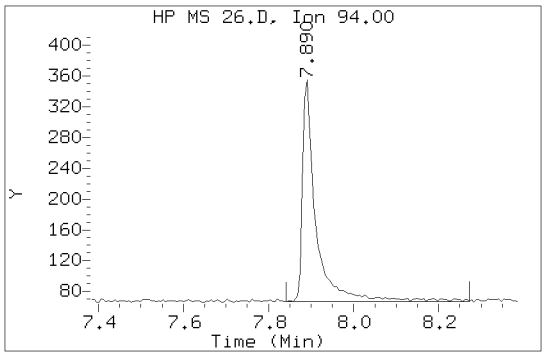
BEFORE

MASS
94
AREA
632
HEIGHT
288
26-Jan-2023
19:42
ALSHS
Server



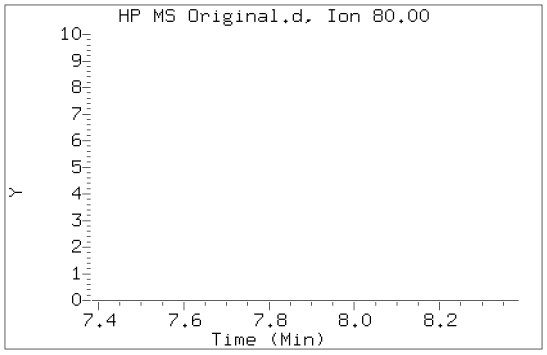
AFTER

MASS
94
AREA
632
HEIGHT
288
01-Feb-2023
16:40
ALSHS
Ser



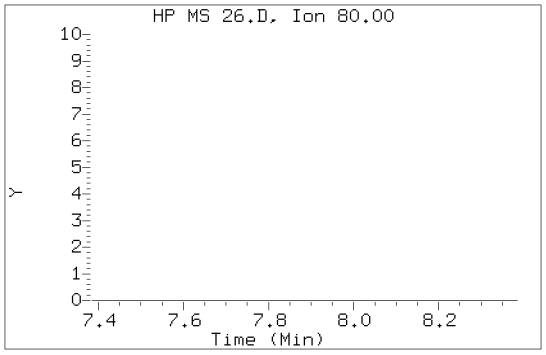
BEFORE

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

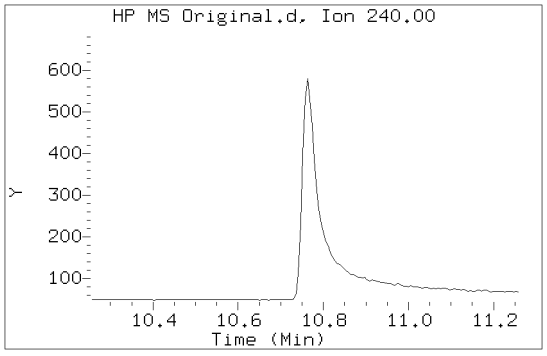


Chrysene-d12 (1719-03-5)

Reason Code:

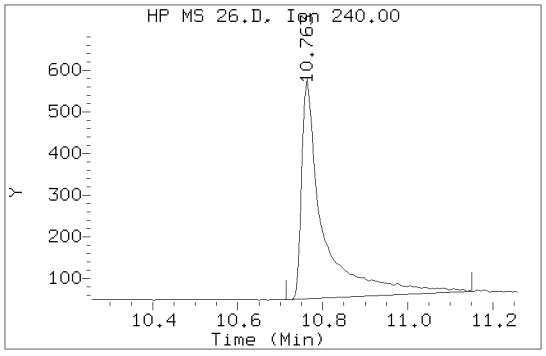
BEFORE

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



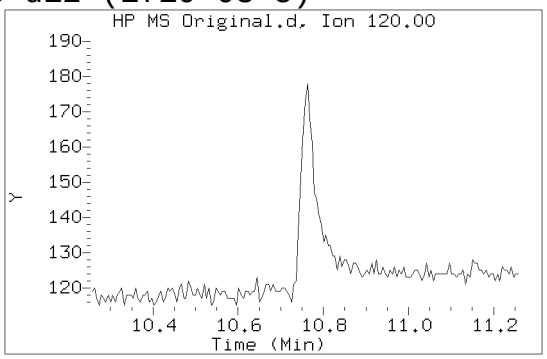
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D
Inj Date : 26-JAN-2023 19:27
InstruID : SV6.i
LabSampID : 1 4-DX-ICV

Chrysene-d12 (1719-03-5)

Reason Code:

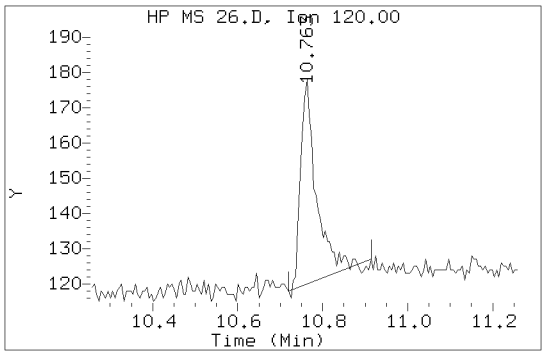
BEFORE

MASS
120
AREA
0
HEIGHT
0
26-Jan-2023
19:42
ALSHS
Server



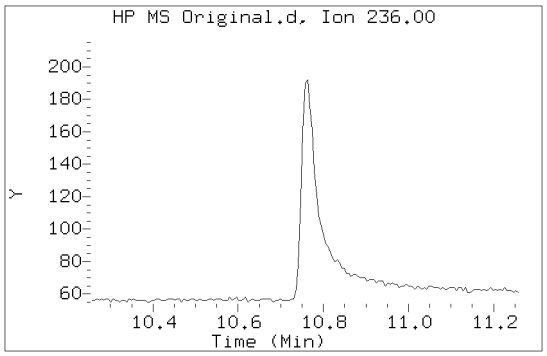
AFTER

MASS
120
AREA
144
HEIGHT
57
01-Feb-2023
16:40
ALSHS
Ser



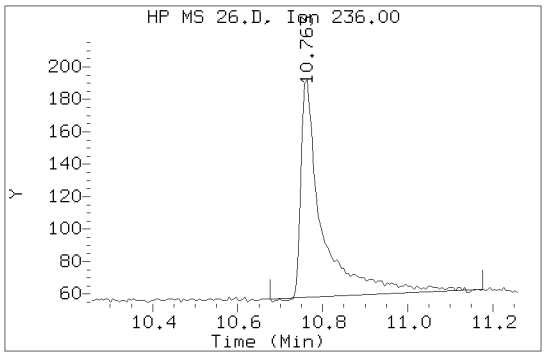
BEFORE

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

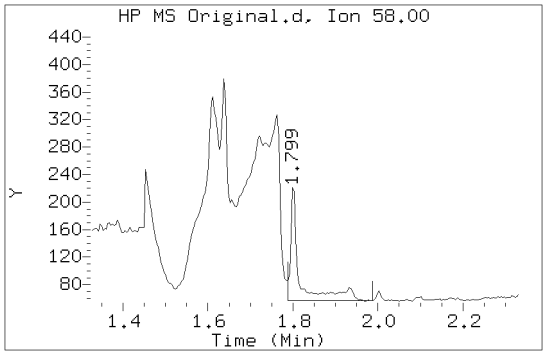


1,4-Dioxane ()

Reason Code:

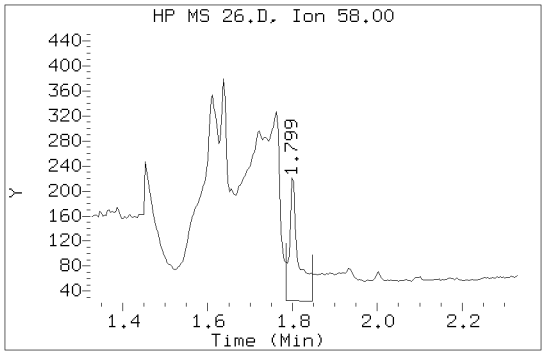
BEFORE

MASS
58
AREA
236
HEIGHT
164
26-Jan-2023
19:42
ALSHS
Server



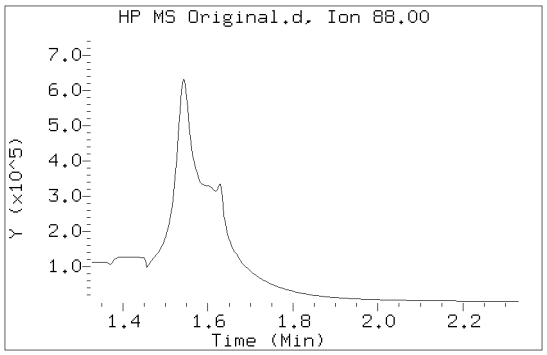
AFTER

MASS
58
AREA
304
HEIGHT
196
01-Feb-2023
16:40
ALSHS
Ser



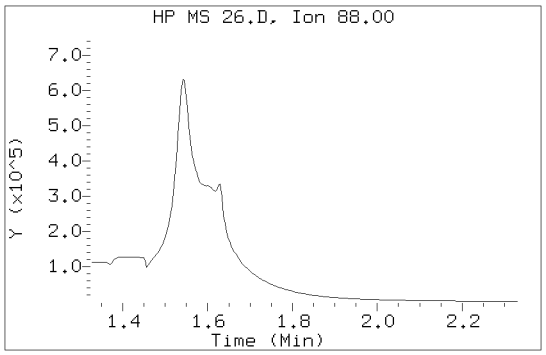
BEFORE

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



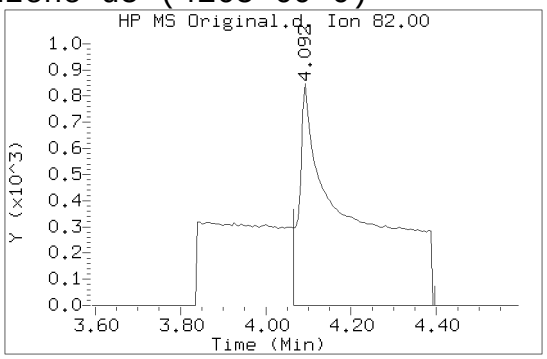
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D
Inj Date : 26-JAN-2023 19:27
InstruID : SV6.i
LabSampID : 1 4-DX-ICV

Nitrobenzene-d5 (4165-60-0)

Reason Code:

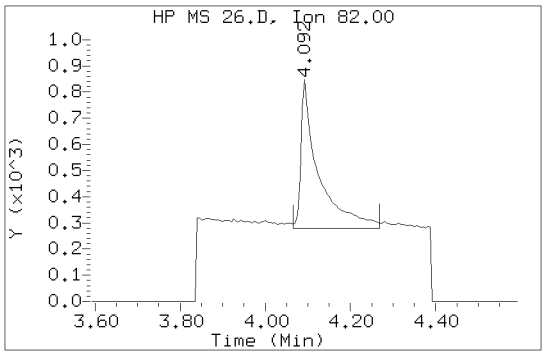
BEFORE

MASS
82
AREA
7163
HEIGHT
847
26-Jan-2023
19:42
ALSHS
Server



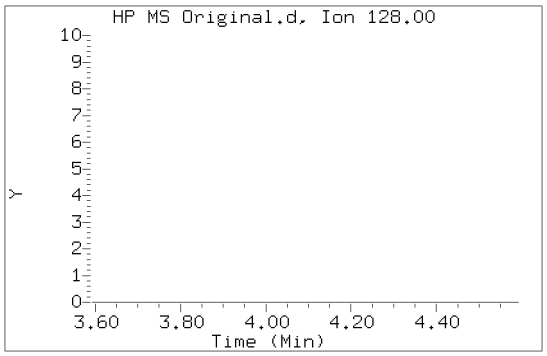
AFTER

MASS
82
AREA
1632
HEIGHT
568
01-Feb-2023
16:40
ALSHS
Ser



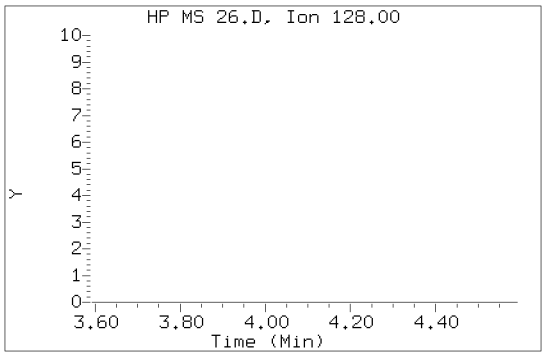
BEFORE

MASS
128
AREA
0
HEIGHT
0
26-Jan-2023
19:42
ALSHS
Server



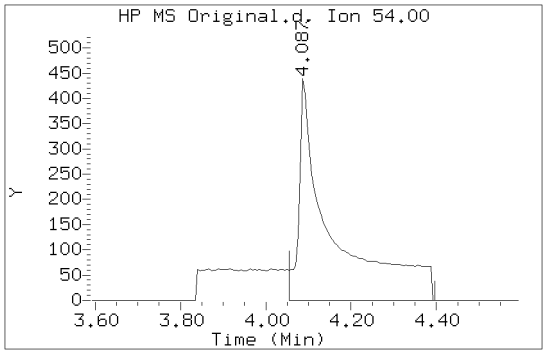
AFTER

MASS
128
AREA
0
HEIGHT
0
01-Feb-2023
16:40
ALSHS
Ser



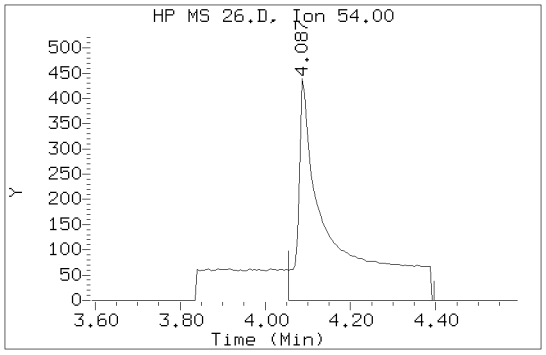
BEFORE

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

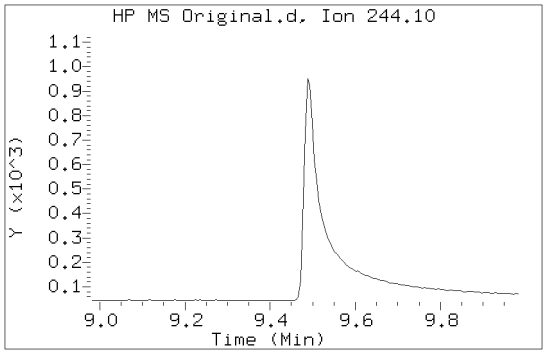


4-Terphenyl-d14 (1718-51-0)

Reason Code:

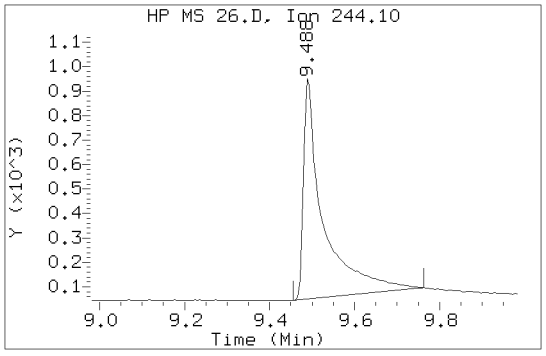
BEFORE

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



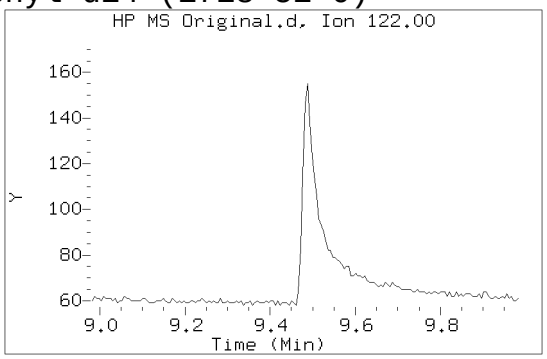
Data File : \\NAHSTWS005\Target\chem\SV6.i\230126.b\26.D
Inj Date : 26-JAN-2023 19:27
InstruID : SV6.i
LabSampID : 1 4-DX-ICV

4-Terphenyl-d14 (1718-51-0)

Reason Code:

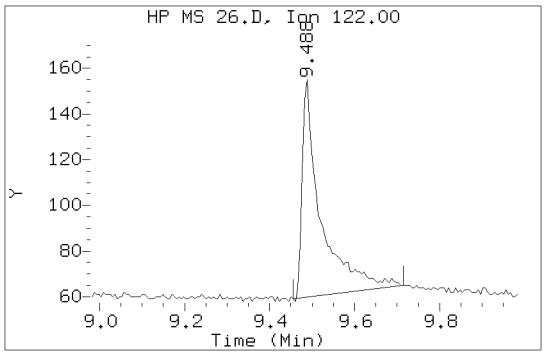
BEFORE

MASS
122
AREA
0
HEIGHT
0
26-Jan-2023
19:42
ALSHS
Server



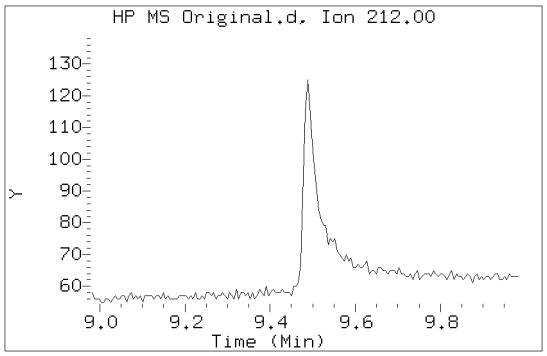
AFTER

MASS
122
AREA
290
HEIGHT
95
01-Feb-2023
16:40
ALSHS
Ser



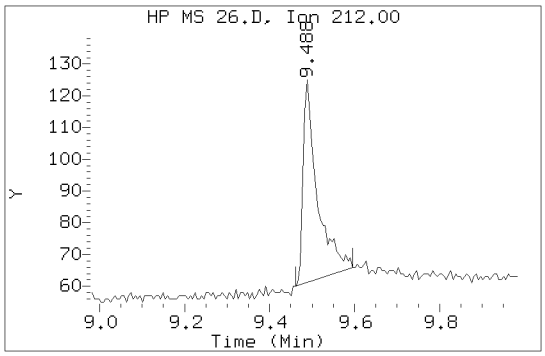
BEFORE

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

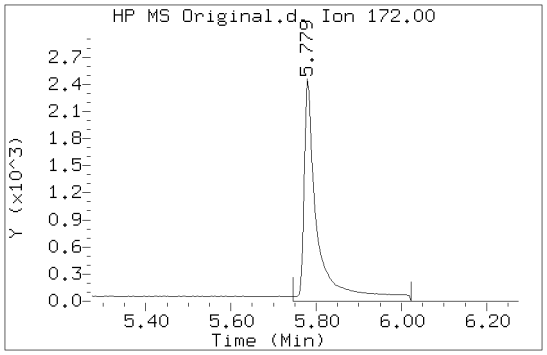


2-Fluorobiphenyl (321-60-8)

Reason Code:

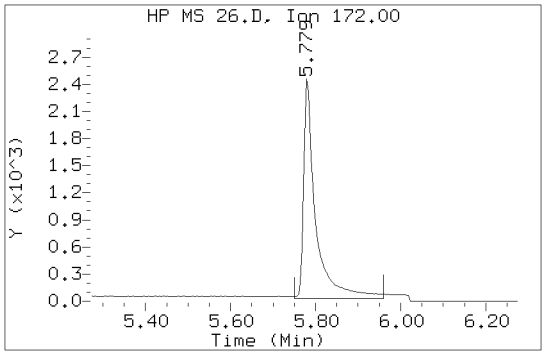
BEFORE

MASS
172
AREA
5421
HEIGHT
2461
26-Jan-2023
19:42
ALSHS
Server



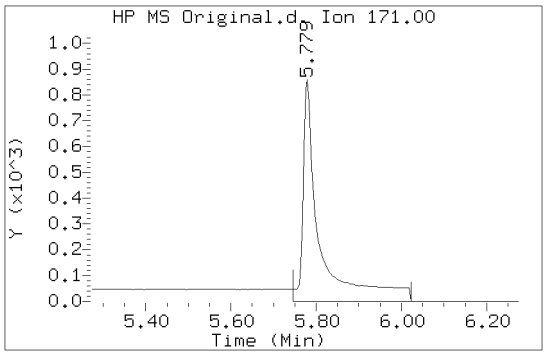
AFTER

MASS
172
AREA
4787
HEIGHT
2431
01-Feb-2023
16:40
ALSHS
Ser



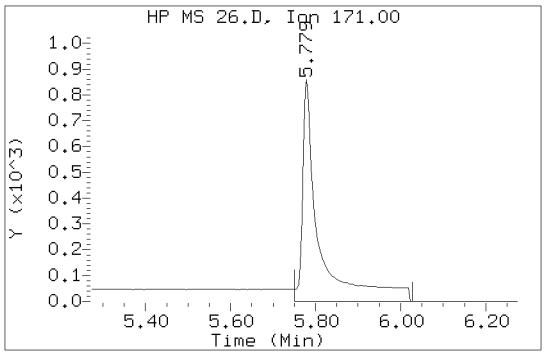
BEFORE

MASS
171
AREA
2318
HEIGHT
859
26-Jan-2023
19:42
ALSHS
Server



AFTER

MASS
171
AREA
2322
HEIGHT
859
01-Feb-2023
16:40
ALSHS
Ser



01185617

right solutions.
right partner.

Raw Data SV-6 431416

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

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

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (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

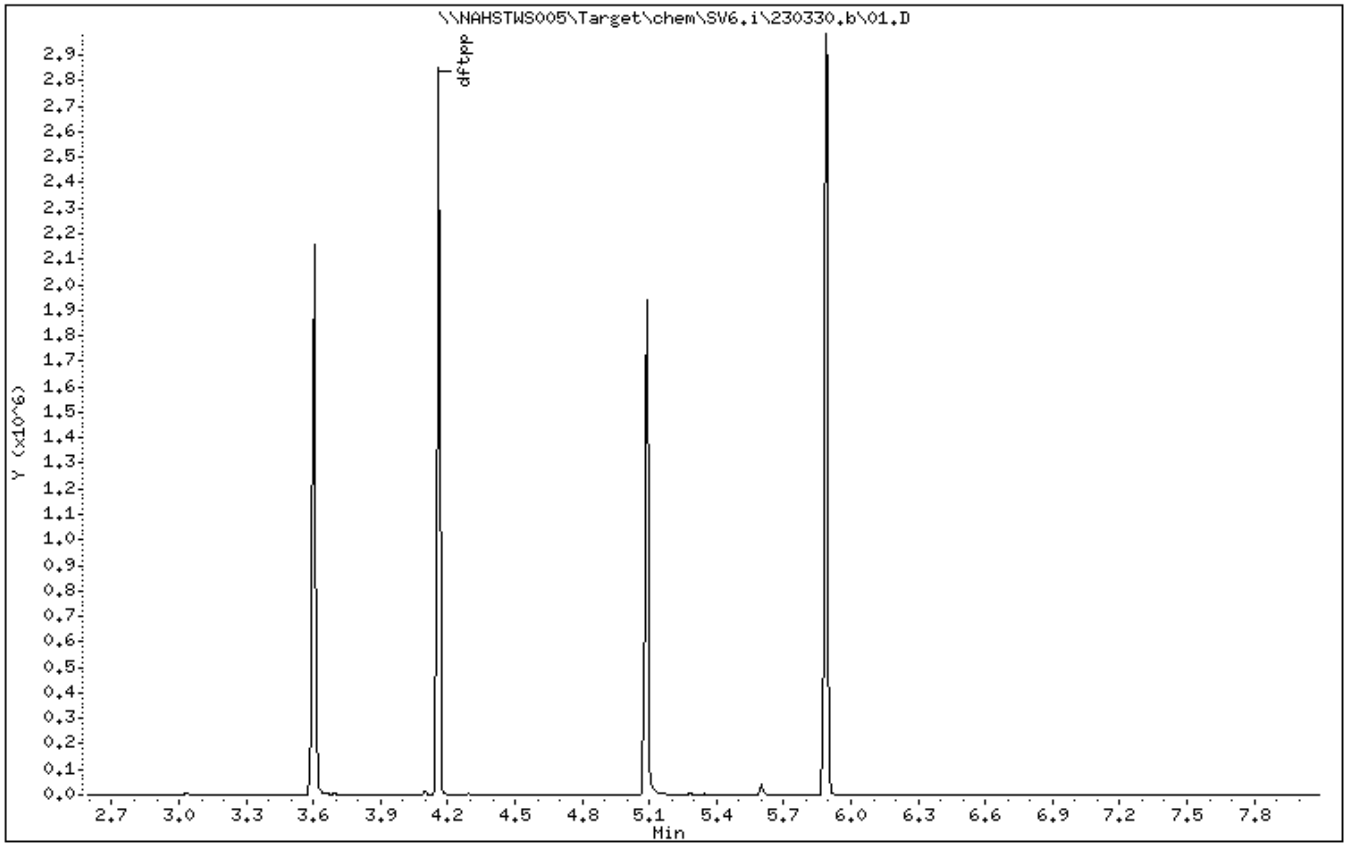
Instrument: SV6.i

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

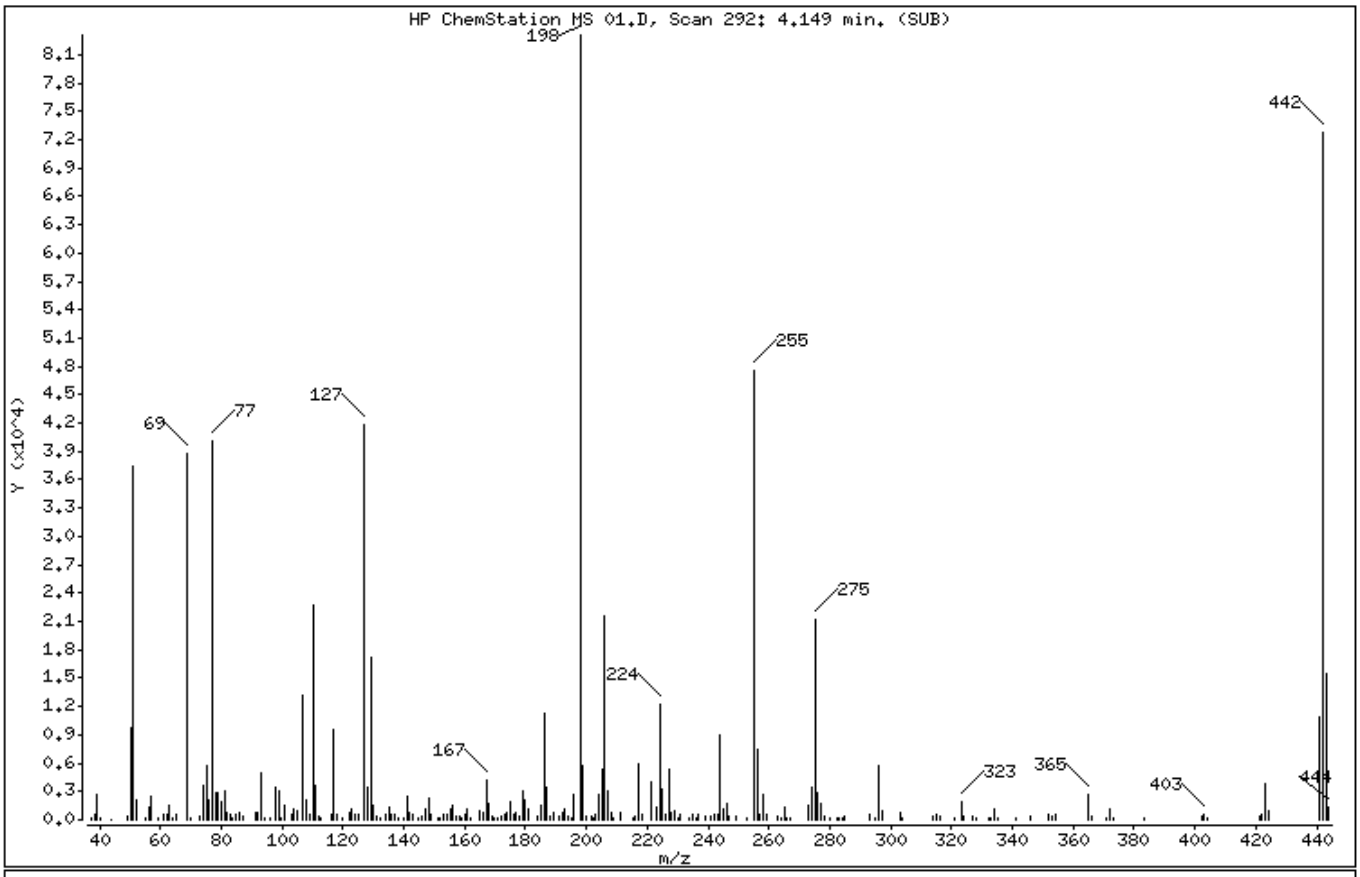
Sample Info: DFTPP;DFTPP;3;;DFTPP

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		

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.

01185627

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

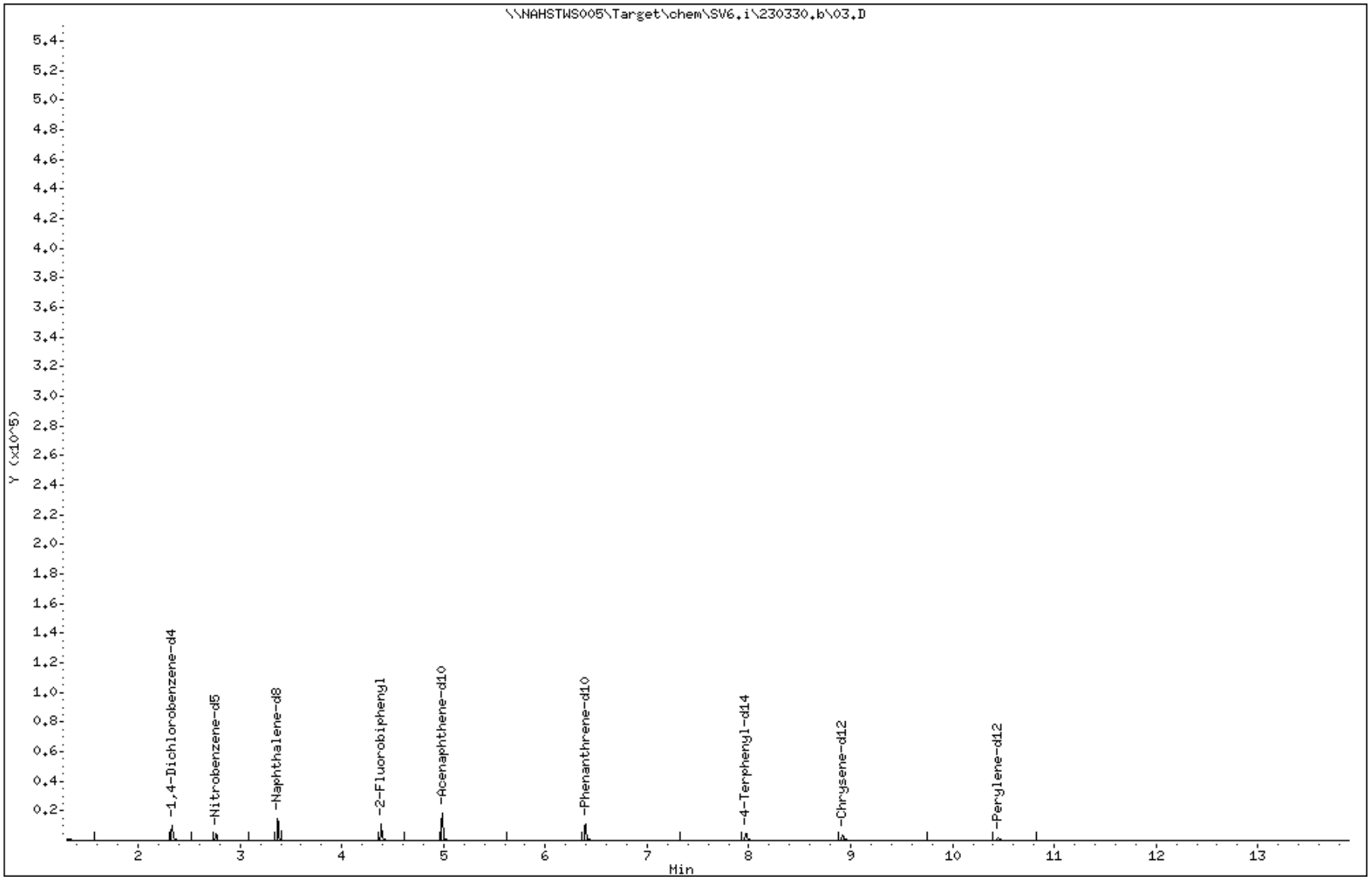
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

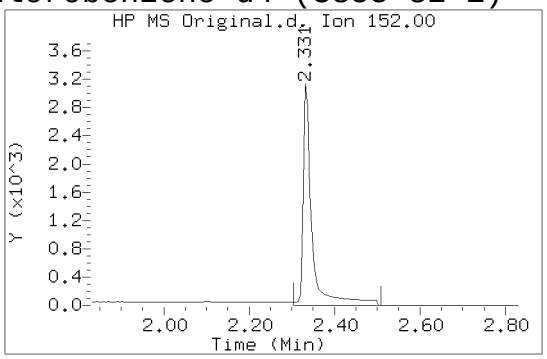


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Inj Date : 30-MAR-2023 12:19
InstruID : SV6.i
LabSampID : 14DX-0.08

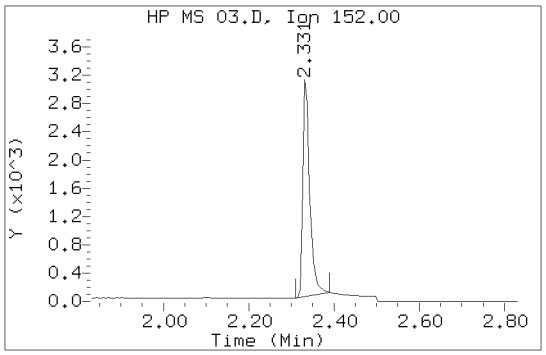
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

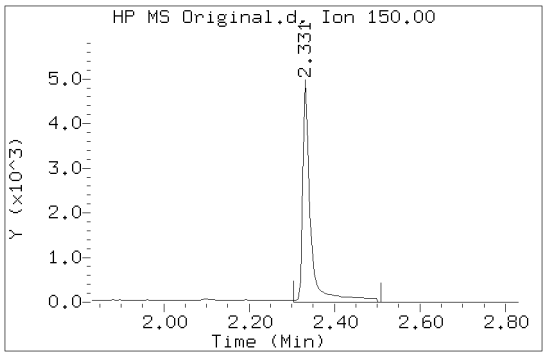
BEFORE
MASS
152
AREA
4376
HEIGHT
3137
30-Mar-2023
12:34
ALSHS
Server



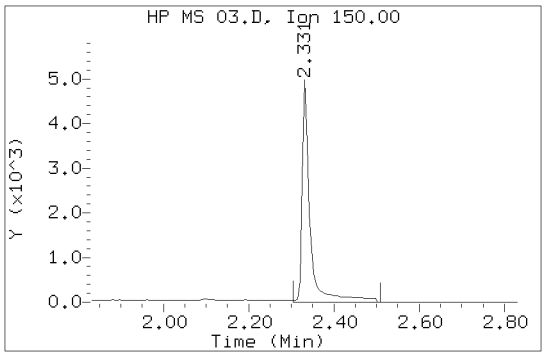
AFTER
MASS
152
AREA
3344
HEIGHT
3067
30-Mar-2023
13:06



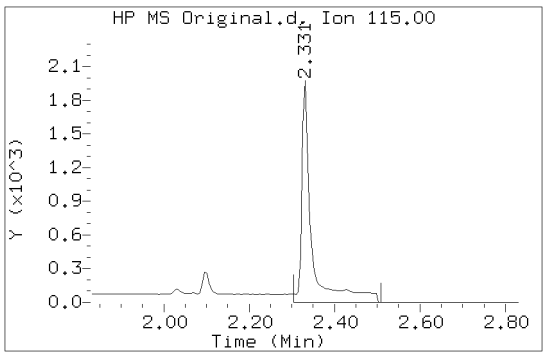
BEFORE
MASS
150
AREA
6311
HEIGHT
4979
30-Mar-2023
12:34
ALSHS
Server



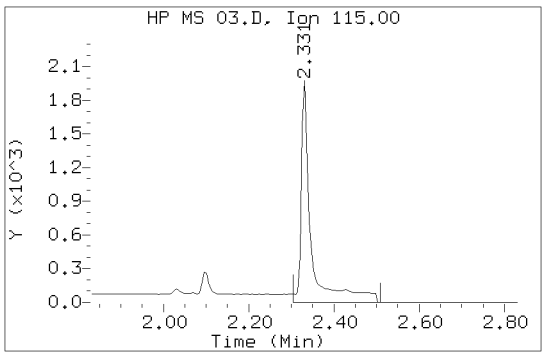
AFTER
MASS
150
AREA
6311
HEIGHT
4979
30-Mar-2023
13:06



BEFORE
MASS
115
AREA
3141
HEIGHT
1975
30-Mar-2023
12:34
ALSHS
Server



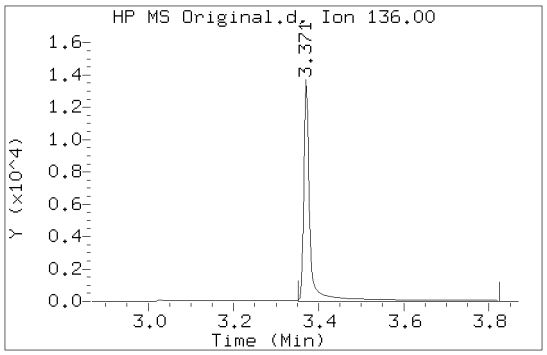
AFTER
MASS
115
AREA
3141
HEIGHT
1975
30-Mar-2023
13:06



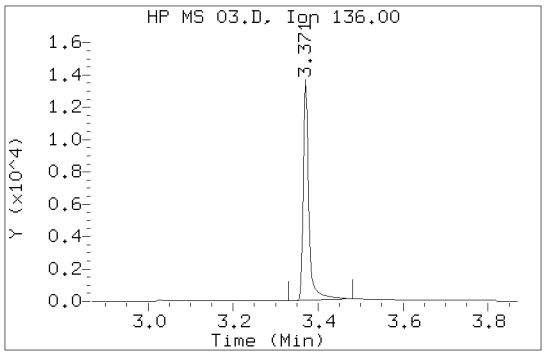
Naphthalene-d8 (1146-65-2)

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



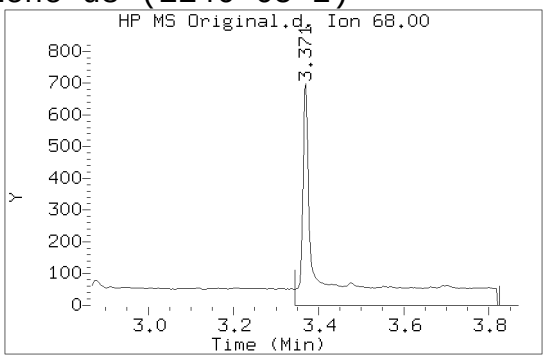
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Inj Date : 30-MAR-2023 12:19
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

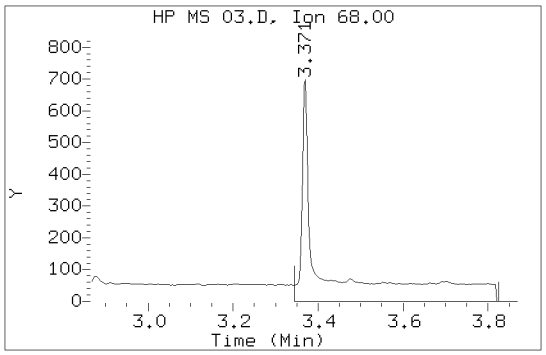
BEFORE

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

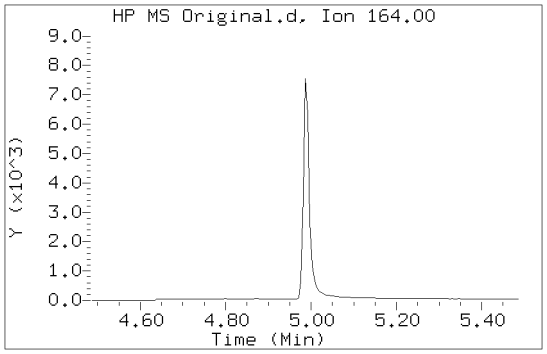


Acenaphthene-d10 (15067-26-2)

Reason Code:

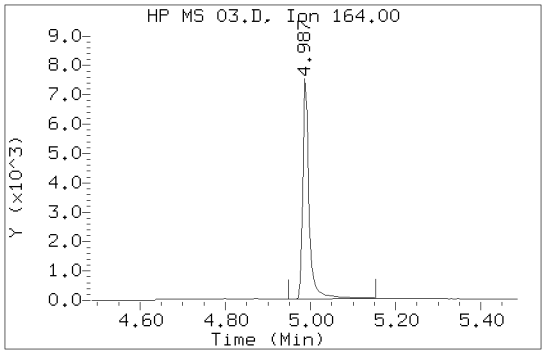
BEFORE

MASS
164
AREA
10119
HEIGHT
7547
30-Mar-2023
12:34
ALSHS
Server



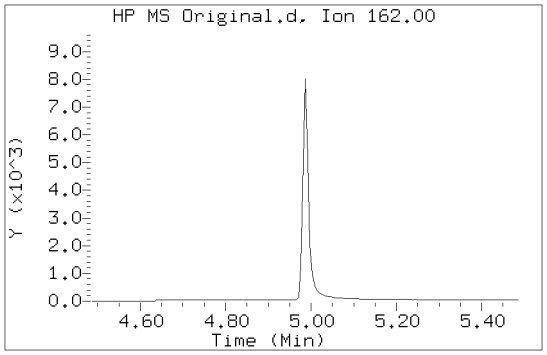
AFTER

MASS
164
AREA
7756
HEIGHT
7491
30-Mar-2023
13:06



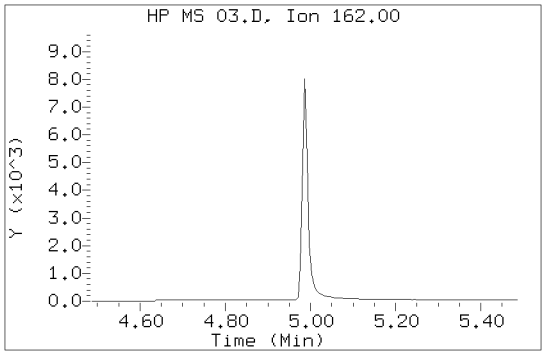
BEFORE

MASS
162
AREA
10123
HEIGHT
8014
30-Mar-2023
12:34
ALSHS
Server



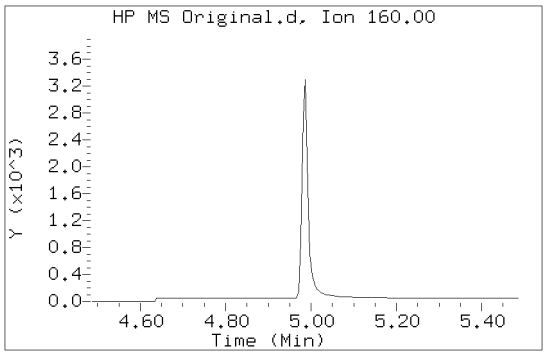
AFTER

MASS
162
AREA
10123
HEIGHT
8014
30-Mar-2023
13:06



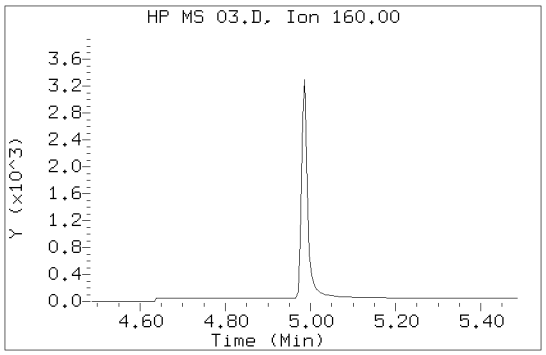
BEFORE

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



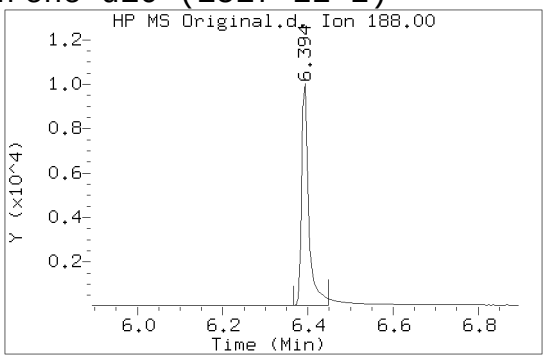
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Inj Date : 30-MAR-2023 12:19
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

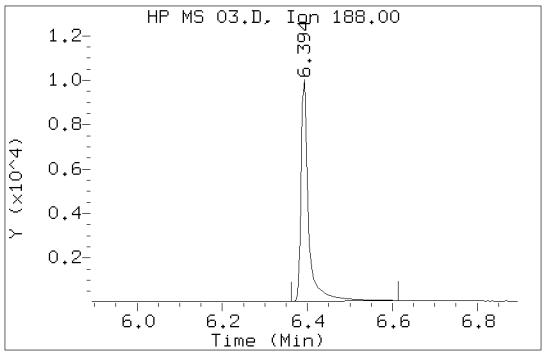
BEFORE

MASS
188
AREA
11432
HEIGHT
9974
30-Mar-2023
12:34
ALSHS
Server



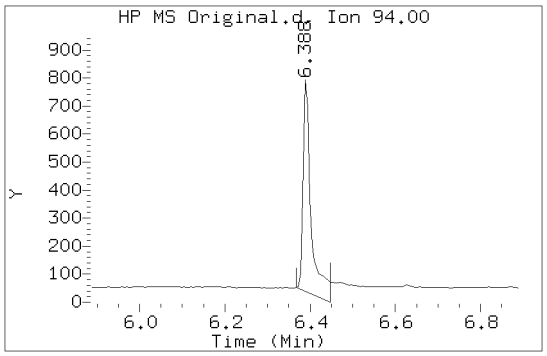
AFTER

MASS
188
AREA
12070
HEIGHT
9969
30-Mar-2023
13:06



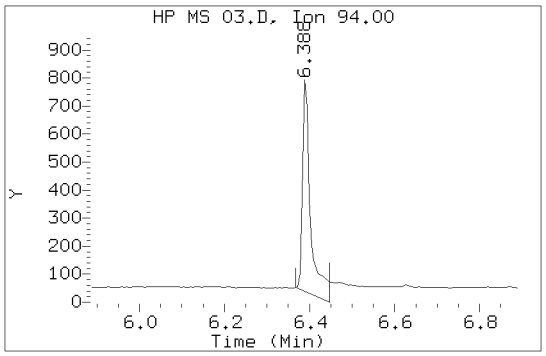
BEFORE

MASS
94
AREA
975
HEIGHT
754
30-Mar-2023
12:34
ALSHS
Server



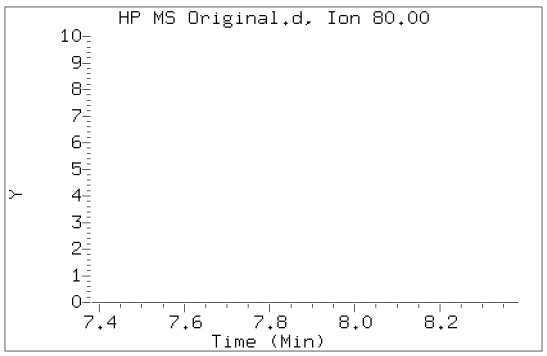
AFTER

MASS
94
AREA
975
HEIGHT
754
30-Mar-2023
13:06



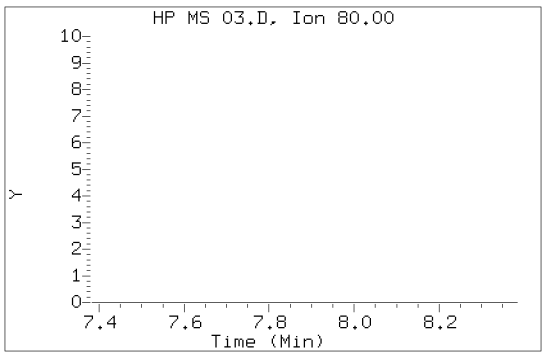
BEFORE

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

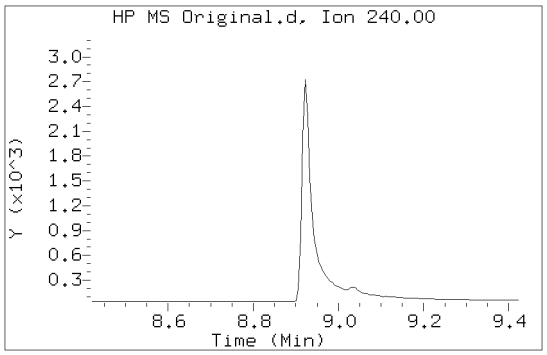


Chrysene-d12 (1719-03-5)

Reason Code:

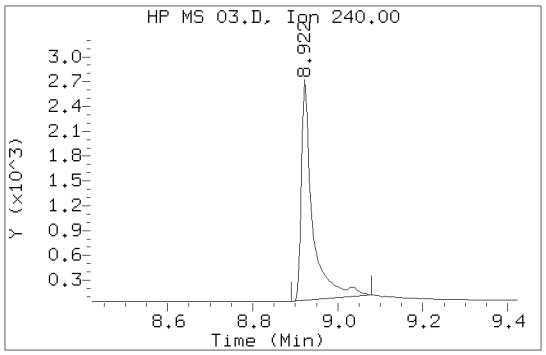
BEFORE

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

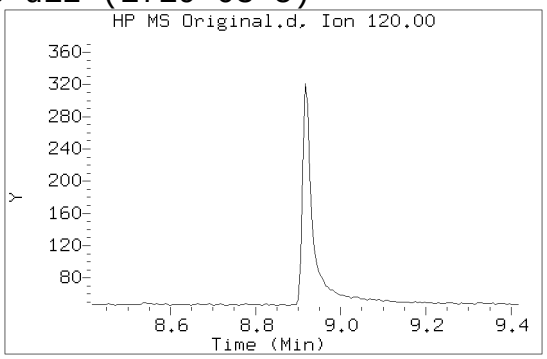


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Inj Date : 30-MAR-2023 12:19
InstruID : SV6.i
LabSampID : 14DX-0.08

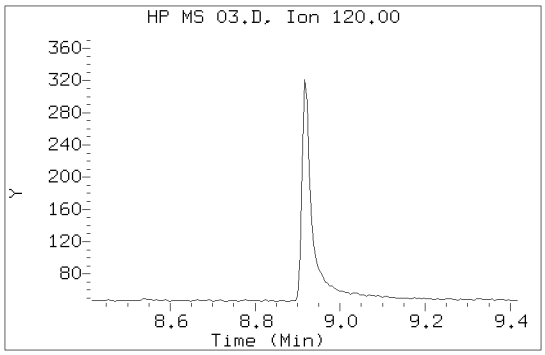
Chrysene-d12 (1719-03-5)

Reason Code:

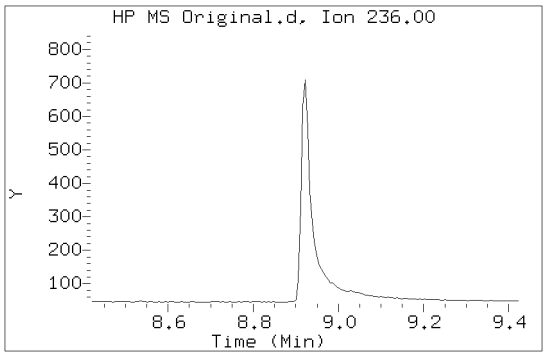
BEFORE
MASS
120
AREA
2519
HEIGHT
321
30-Mar-2023
12:34
ALSHS
Server



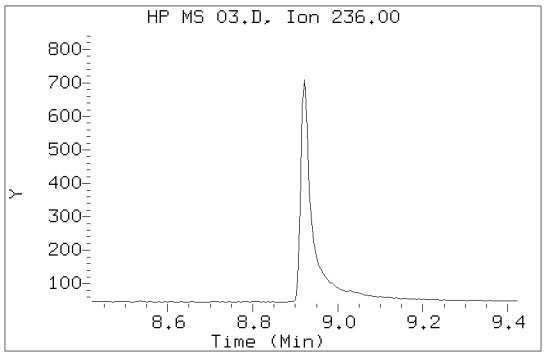
AFTER
MASS
120
AREA
2519
HEIGHT
321
30-Mar-2023
13:06



BEFORE
MASS
236
AREA
3426
HEIGHT
709
30-Mar-2023
12:34
ALSHS
Server



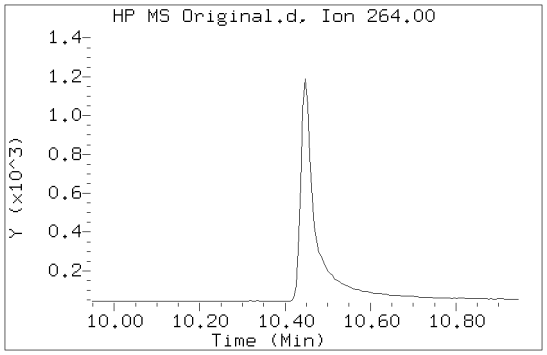
AFTER
MASS
236
AREA
3426
HEIGHT
709
30-Mar-2023
13:06



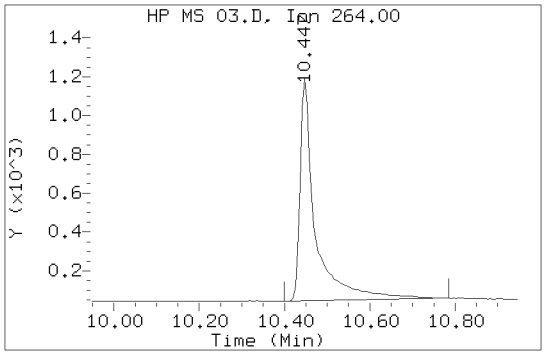
Perylene-d12 (1520-96-3)

Reason Code:

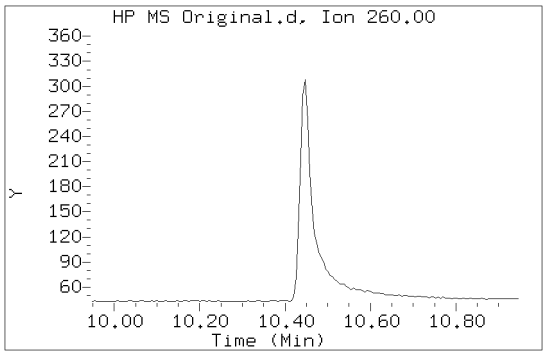
BEFORE
MASS
264
AREA
0
HEIGHT
0
30-Mar-2023
12:34
ALSHS
Server



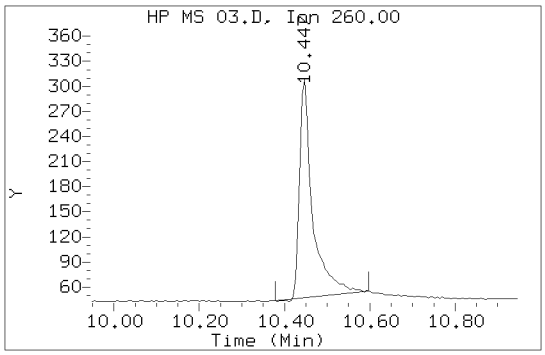
AFTER
MASS
264
AREA
2850
HEIGHT
1142
30-Mar-2023
13:06



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



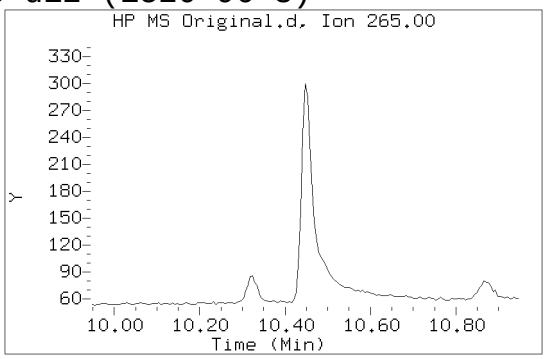
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Inj Date : 30-MAR-2023 12:19
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

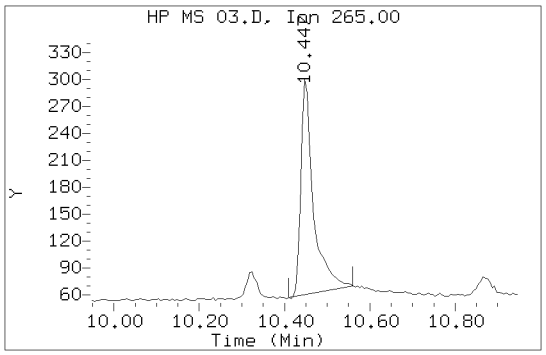
BEFORE

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

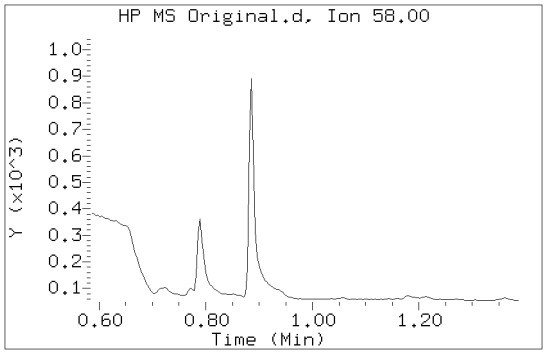


1,4-Dioxane ()

Reason Code:

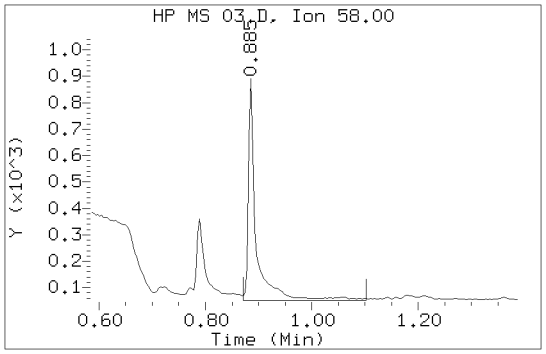
BEFORE

MASS
58
AREA
868
HEIGHT
835
30-Mar-2023
12:34
ALSHS
Server



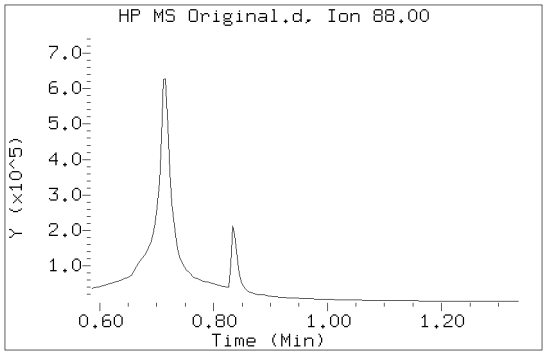
AFTER

MASS
58
AREA
854
HEIGHT
838
30-Mar-2023
13:06



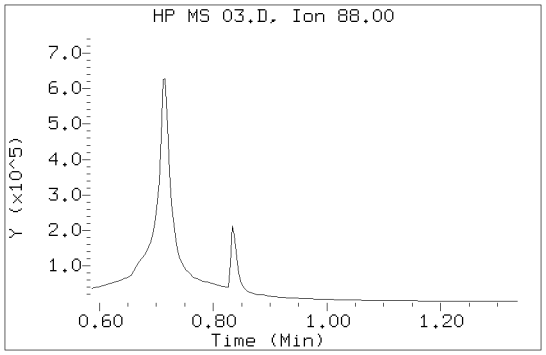
BEFORE

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

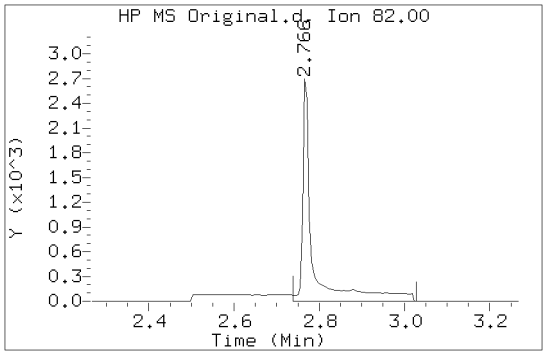


Nitrobenzene-d5 (4165-60-0)

Reason Code:

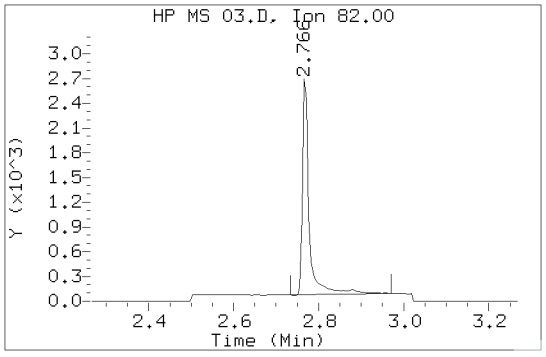
BEFORE

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

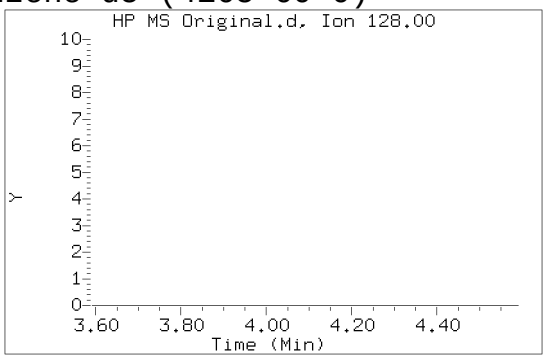


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Inj Date : 30-MAR-2023 12:19
InstruID : SV6.i
LabSampID : 14DX-0.08

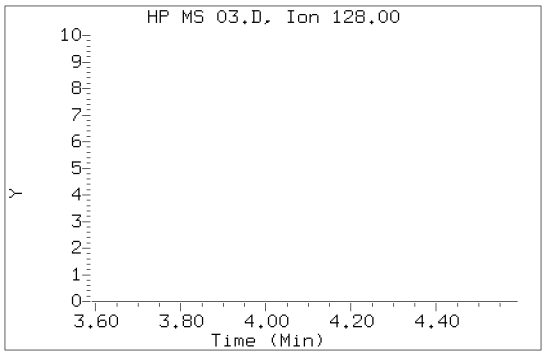
Nitrobenzene-d5 (4165-60-0)

Reason Code:

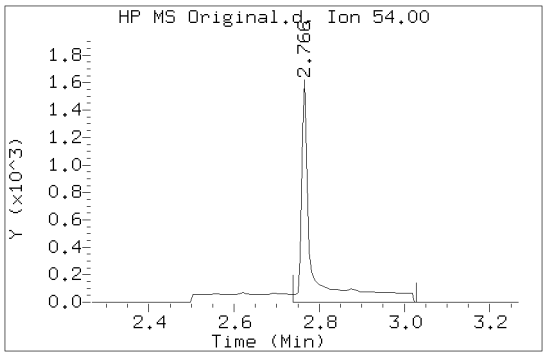
BEFORE
MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
12:34
ALSHS
Server



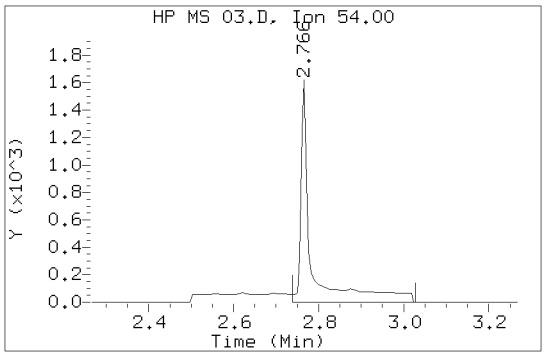
AFTER
MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
13:06



BEFORE
MASS
54
AREA
2750
HEIGHT
1620
30-Mar-2023
12:34
ALSHS
Server



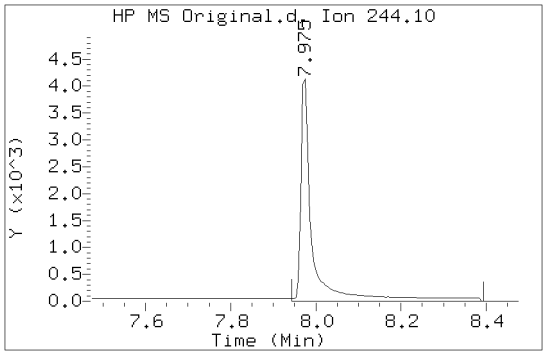
AFTER
MASS
54
AREA
2750
HEIGHT
1620
30-Mar-2023
13:06



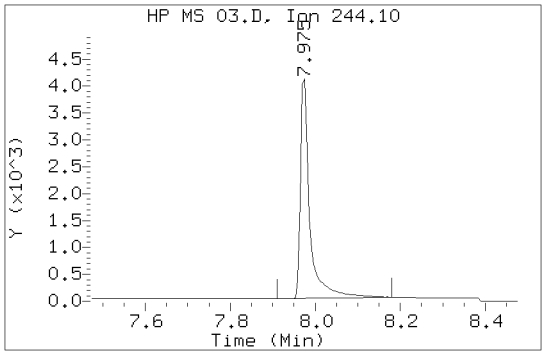
4-Terphenyl-d14 (1718-51-0)

Reason Code:

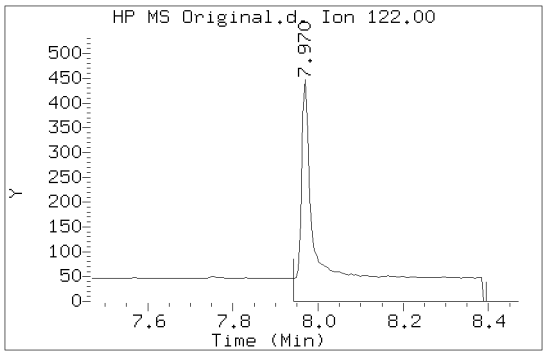
BEFORE
MASS
244.1
AREA
7866
HEIGHT
4135
30-Mar-2023
12:34
ALSHS
Server



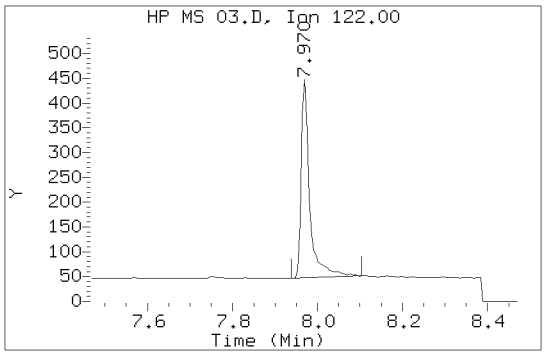
AFTER
MASS
244.1
AREA
6215
HEIGHT
4083
30-Mar-2023
13:06



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



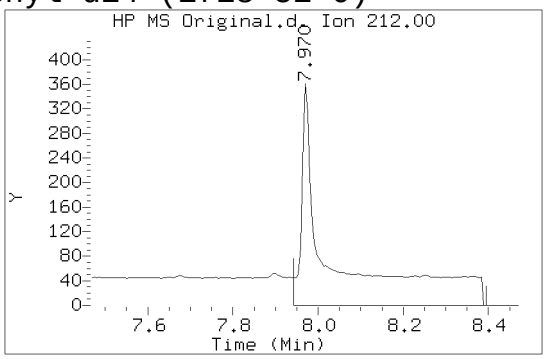
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\03.D
Inj Date : 30-MAR-2023 12:19
InstruID : SV6.i
LabSampID : 14DX-0.08

4-Terphenyl-d14 (1718-51-0)

Reason Code:

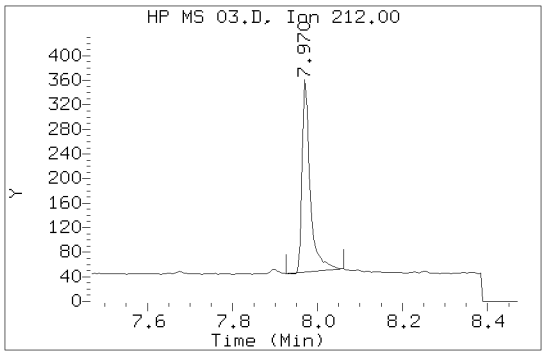
BEFORE

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

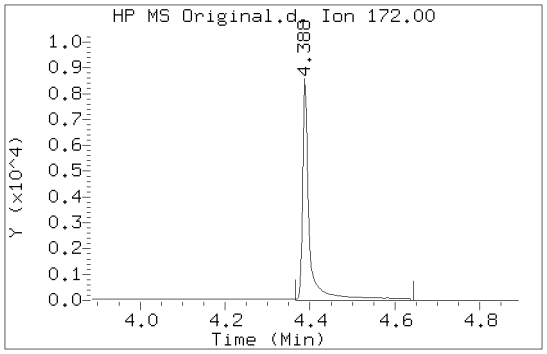


2-Fluorobiphenyl (321-60-8)

Reason Code:

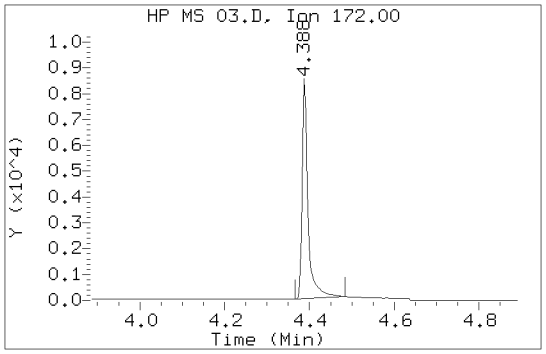
BEFORE

MASS
172
AREA
9883
HEIGHT
8580
30-Mar-2023
12:34
ALSHS
Server



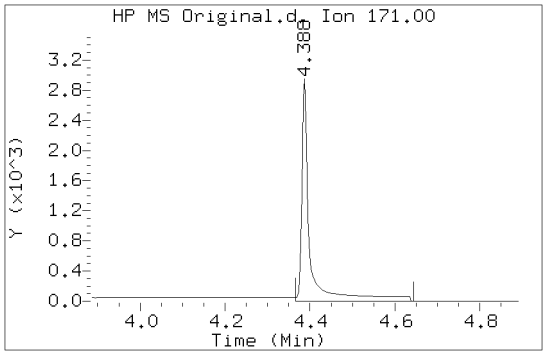
AFTER

MASS
172
AREA
8236
HEIGHT
8513
30-Mar-2023
13:06



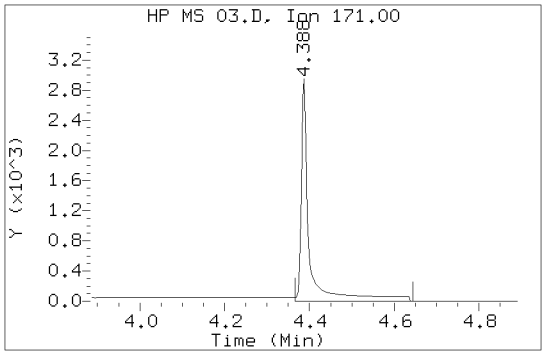
BEFORE

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.

01185636

Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D

Date : 30-MAR-2023 13:29

Client ID:

Instrument: SV6.i

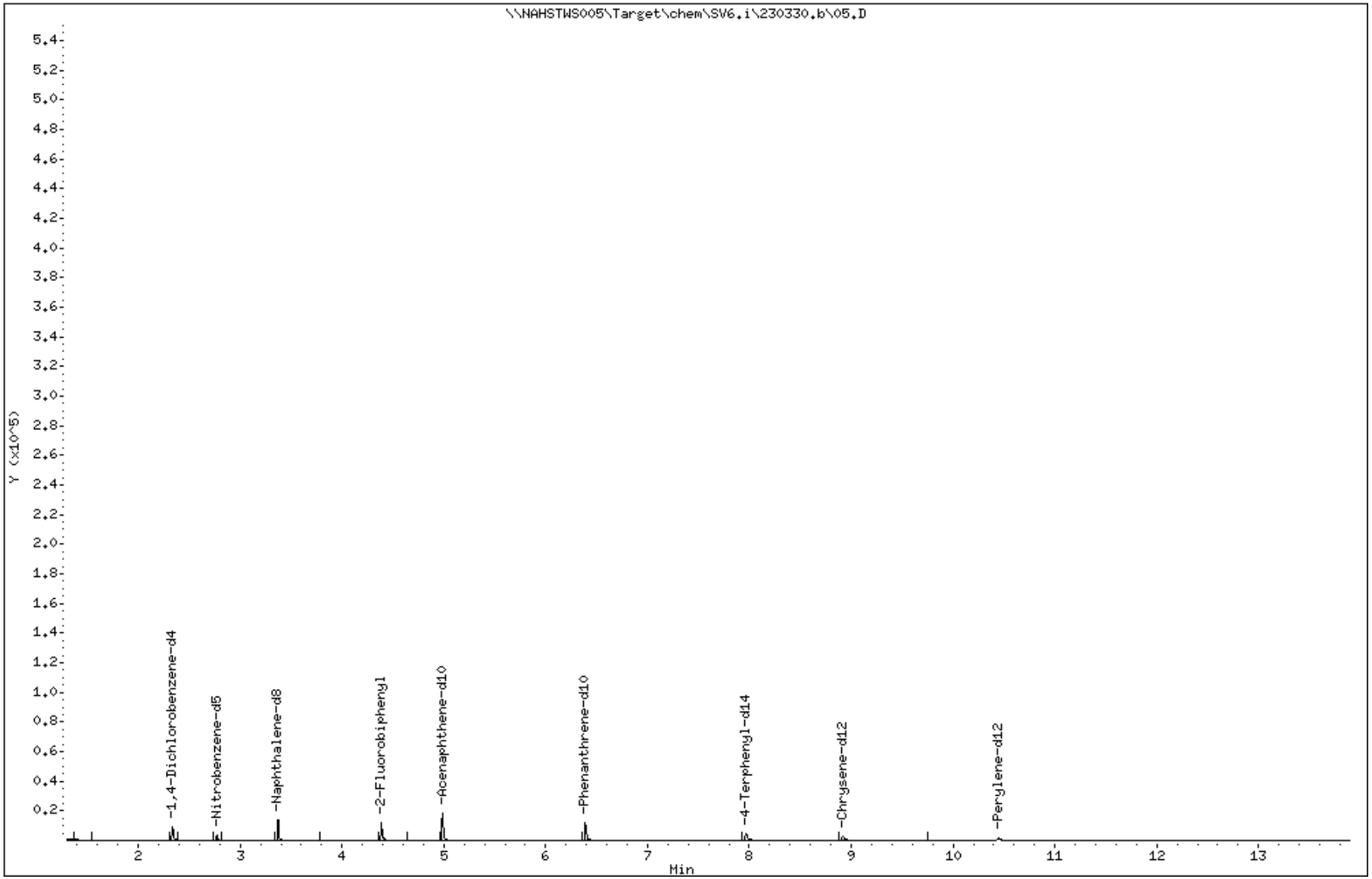
Sample Info: MBLK-191255

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

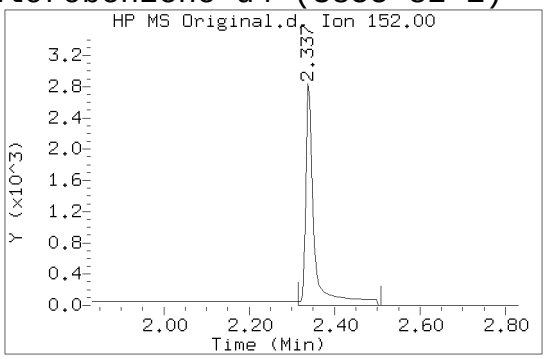


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D
Inj Date : 30-MAR-2023 13:29
InstruID : SV6.i
LabSampID : MBLK-191255

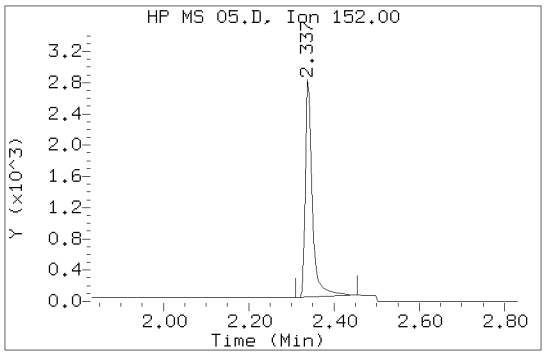
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

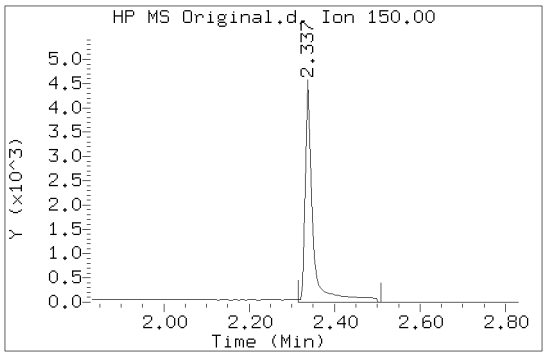
BEFORE
MASS
152
AREA
3944
HEIGHT
2838
30-Mar-2023
13:47
ALSHS
Server



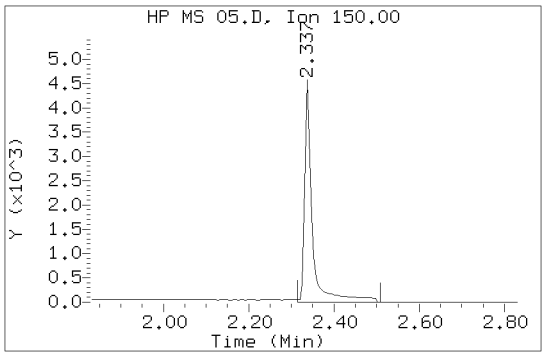
AFTER
MASS
152
AREA
3205
HEIGHT
2785
30-Mar-2023
15:13



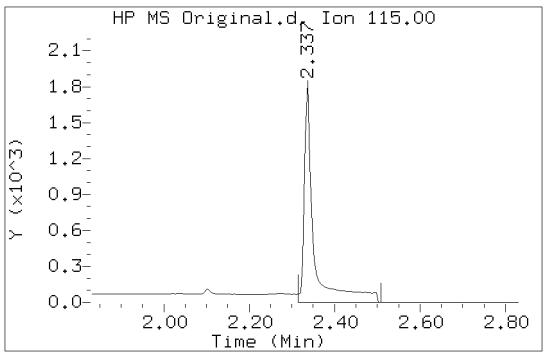
BEFORE
MASS
150
AREA
5666
HEIGHT
4575
30-Mar-2023
13:47
ALSHS
Server



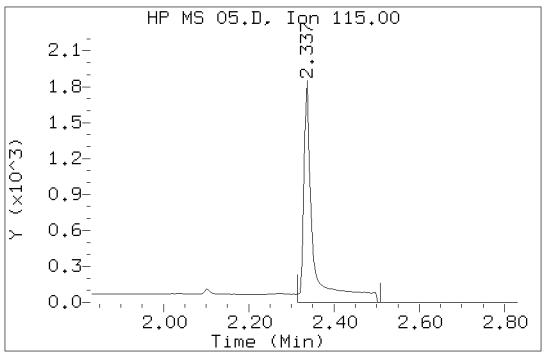
AFTER
MASS
150
AREA
5666
HEIGHT
4575
30-Mar-2023
15:13



BEFORE
MASS
115
AREA
2795
HEIGHT
1850
30-Mar-2023
13:47
ALSHS
Server



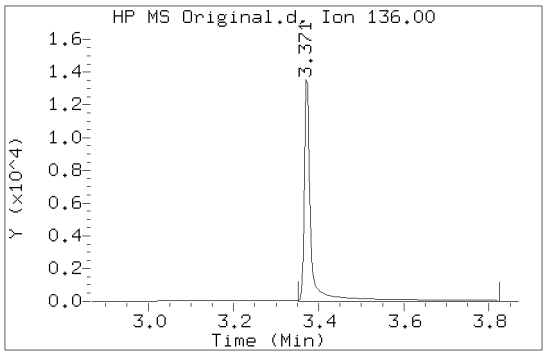
AFTER
MASS
115
AREA
2795
HEIGHT
1850
30-Mar-2023
15:13



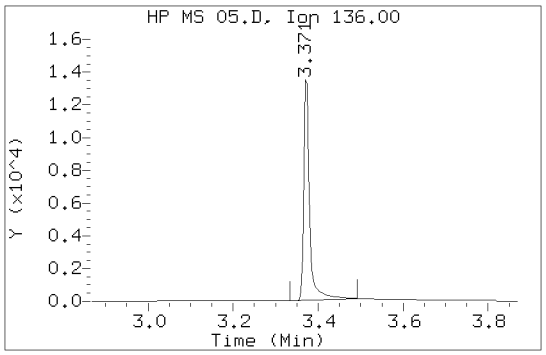
Naphthalene-d8 (1146-65-2)

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

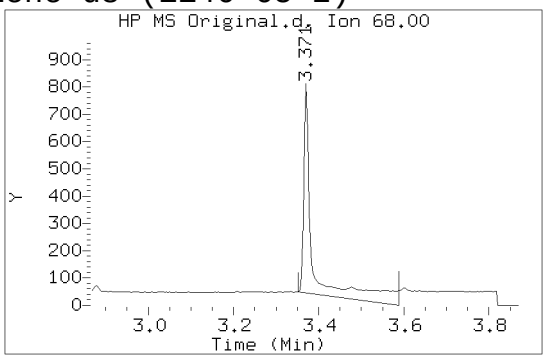


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D
Inj Date : 30-MAR-2023 13:29
InstruID : SV6.i
LabSampID : MBLK-191255

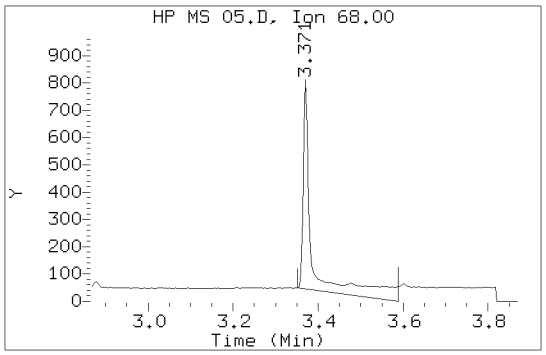
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
68
AREA
1118
HEIGHT
766
30-Mar-2023
13:47
ALSHS
Server



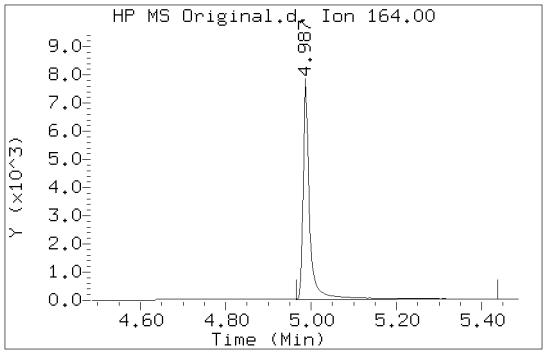
AFTER
MASS
68
AREA
1118
HEIGHT
766
30-Mar-2023
15:13



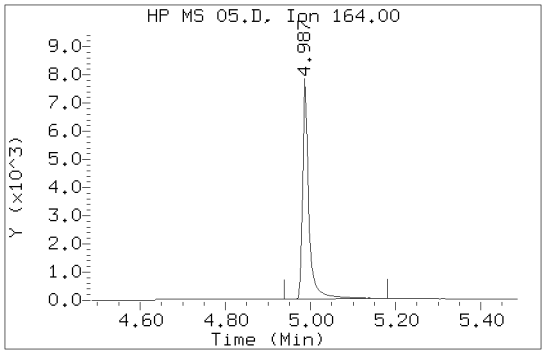
Acenaphthene-d10 (15067-26-2)

Reason Code:

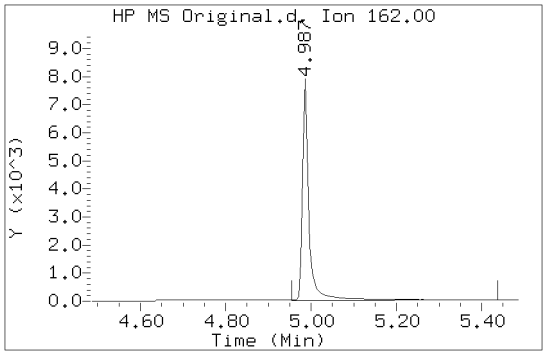
BEFORE
MASS
164
AREA
8628
HEIGHT
7841
30-Mar-2023
13:47
ALSHS
Server



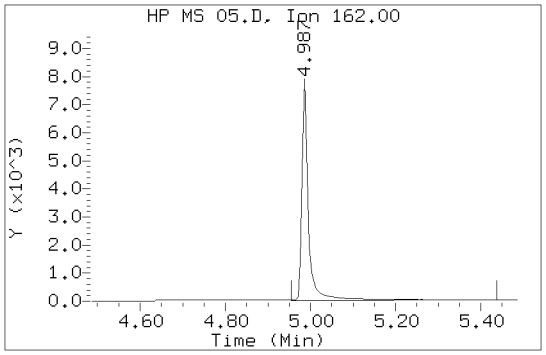
AFTER
MASS
164
AREA
7926
HEIGHT
7811
30-Mar-2023
15:13



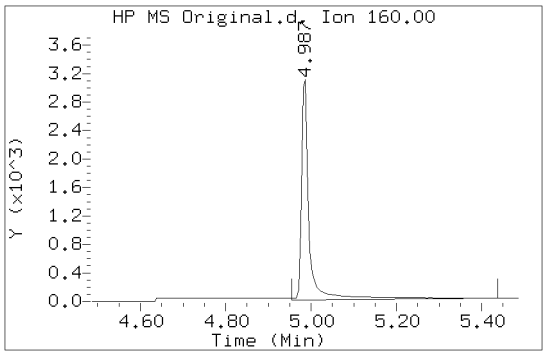
BEFORE
MASS
162
AREA
8763
HEIGHT
7898
30-Mar-2023
13:47
ALSHS
Server



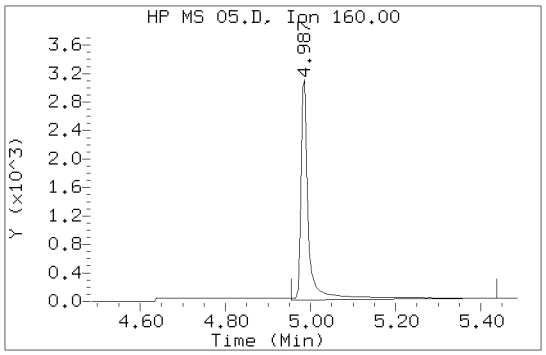
AFTER
MASS
162
AREA
8763
HEIGHT
7898
30-Mar-2023
15:13



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



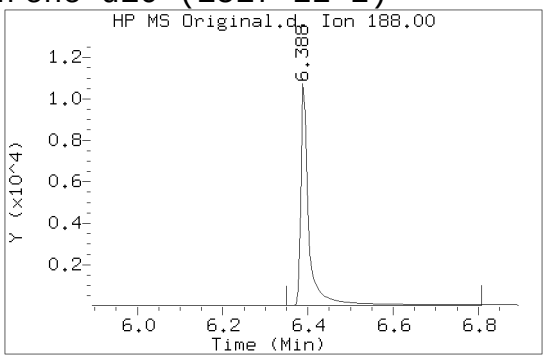
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D
Inj Date : 30-MAR-2023 13:29
InstruID : SV6.i
LabSampID : MBLK-191255

Phenanthrene-d10 (1517-22-2)

Reason Code:

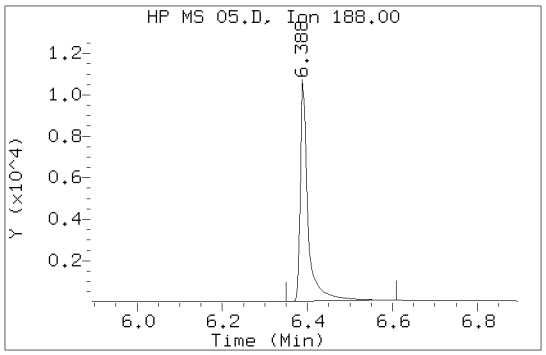
BEFORE

MASS
188
AREA
14075
HEIGHT
10689
30-Mar-2023
13:47
ALSHS
Server



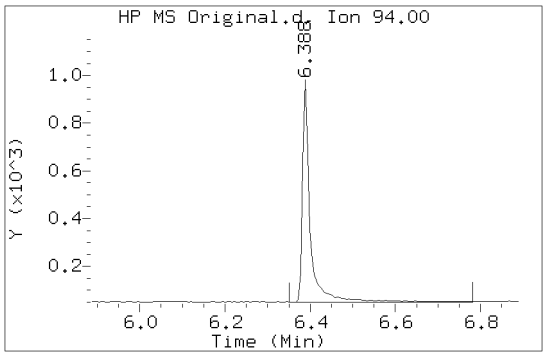
AFTER

MASS
188
AREA
13311
HEIGHT
10681
30-Mar-2023
15:13



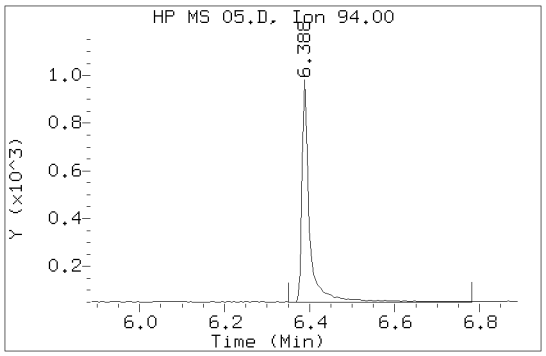
BEFORE

MASS
94
AREA
1153
HEIGHT
930
30-Mar-2023
13:47
ALSHS
Server



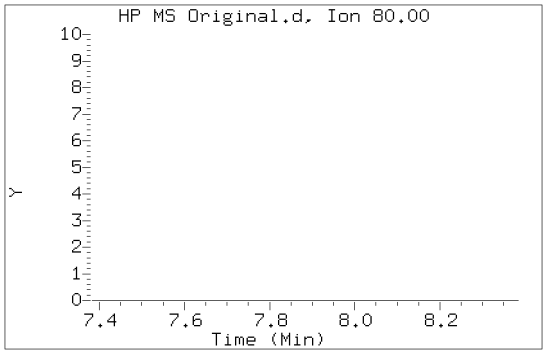
AFTER

MASS
94
AREA
1153
HEIGHT
930
30-Mar-2023
15:13



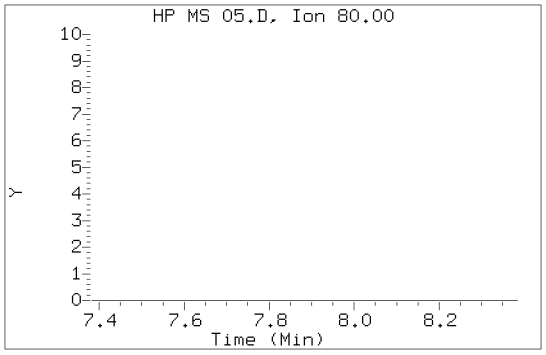
BEFORE

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

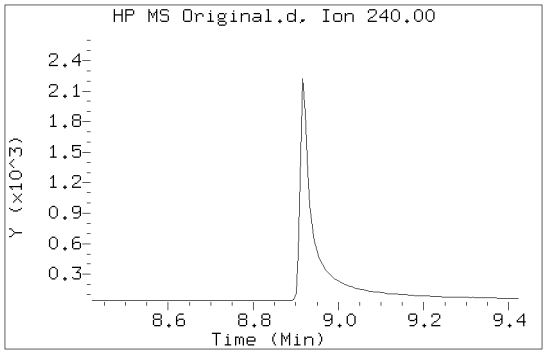


Chrysene-d12 (1719-03-5)

Reason Code:

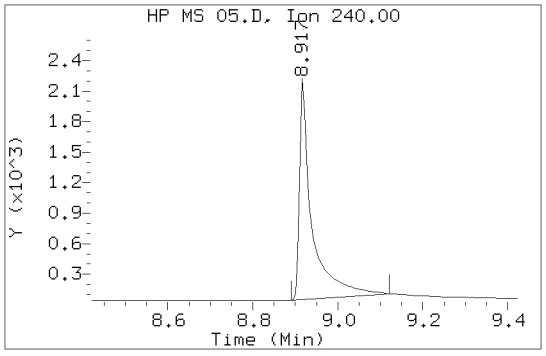
BEFORE

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



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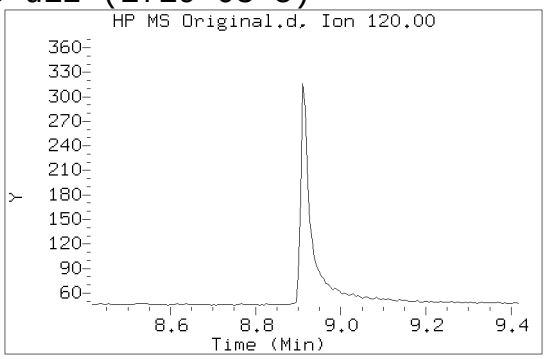
Inj Date : 30-MAR-2023 13:29
InstruID : SV6.i
LabSampID : MBLK-191255

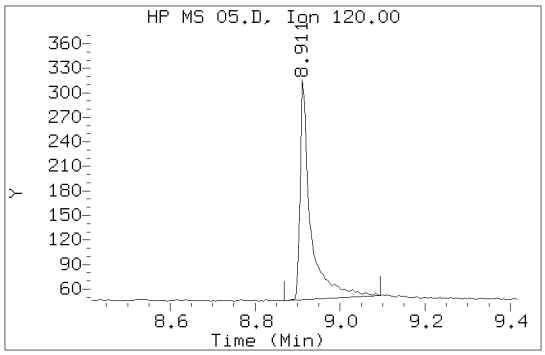
Chrysene-d12 (1719-03-5)

Reason Code:

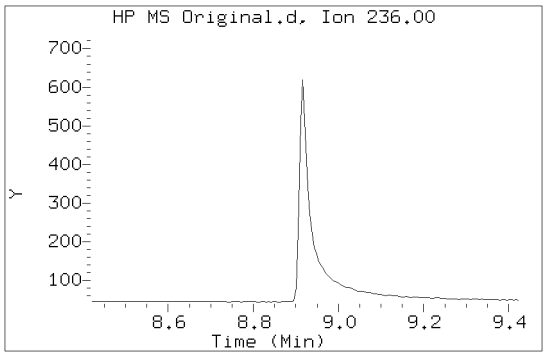
BEFORE
MASS
120
AREA
0
HEIGHT
0
30-Mar-2023
13:47
ALSHS
Server



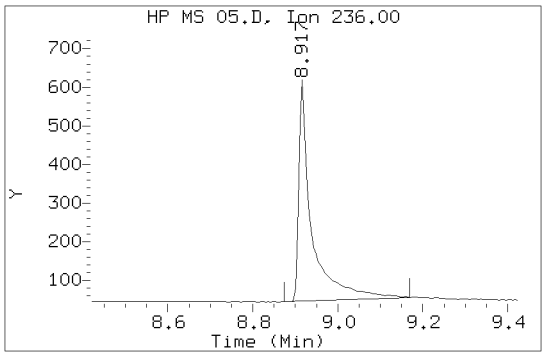
AFTER
MASS
120
AREA
456
HEIGHT
268
30-Mar-2023
15:13



BEFORE
MASS
236
AREA
0
HEIGHT
0
30-Mar-2023
13:47
ALSHS
Server



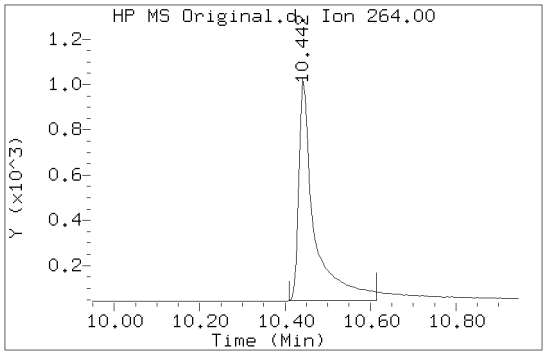
AFTER
MASS
236
AREA
1207
HEIGHT
572
30-Mar-2023
15:13



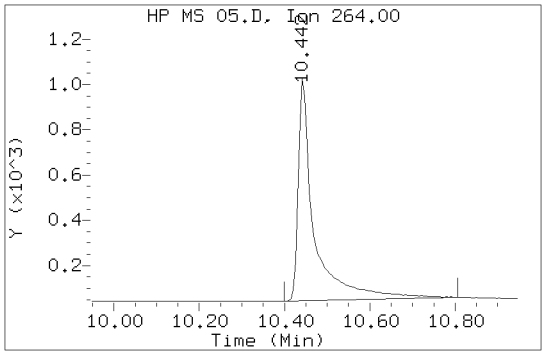
Perylene-d12 (1520-96-3)

Reason Code:

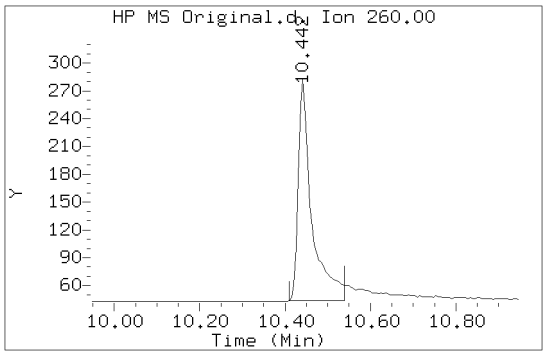
BEFORE
MASS
264
AREA
2457
HEIGHT
980
30-Mar-2023
13:47
ALSHS
Server



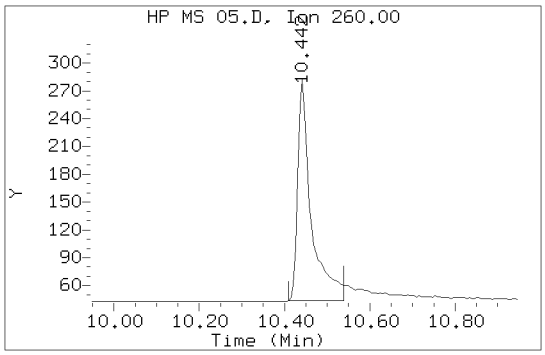
AFTER
MASS
264
AREA
2539
HEIGHT
979
30-Mar-2023
15:13



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



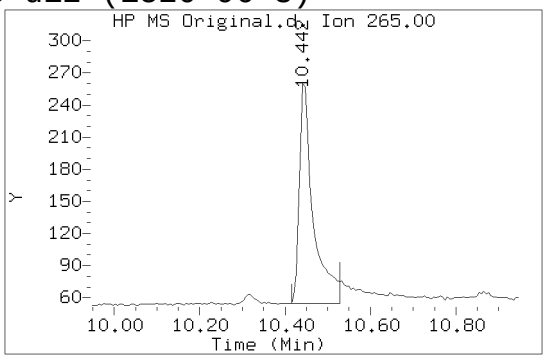
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D
Inj Date : 30-MAR-2023 13:29
InstruID : SV6.i
LabSampID : MBLK-191255

Perylene-d12 (1520-96-3)

Reason Code:

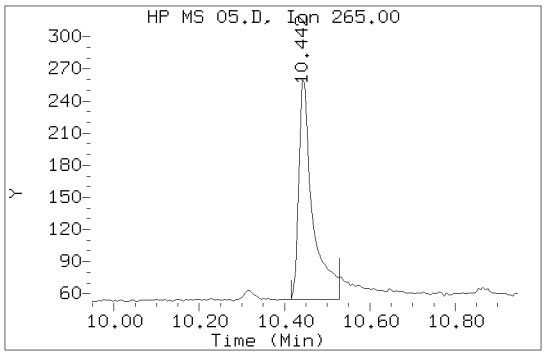
BEFORE

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

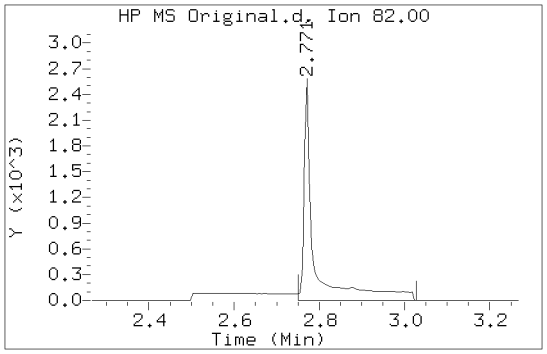


Nitrobenzene-d5 (4165-60-0)

Reason Code:

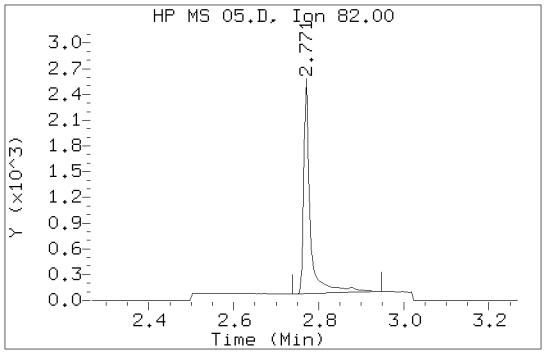
BEFORE

MASS
82
AREA
4177
HEIGHT
2584
30-Mar-2023
13:47
ALSHS
Server



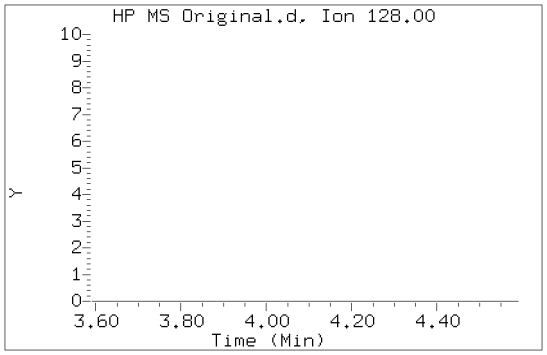
AFTER

MASS
82
AREA
2656
HEIGHT
2501
30-Mar-2023
15:13



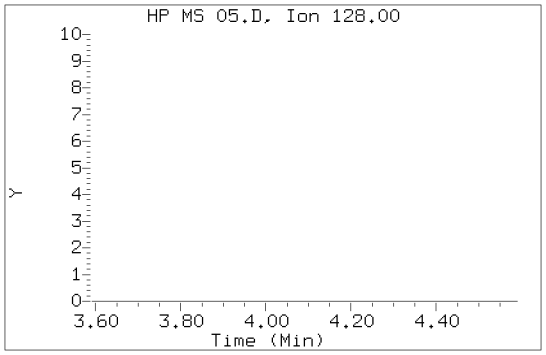
BEFORE

MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
13:47
ALSHS
Server



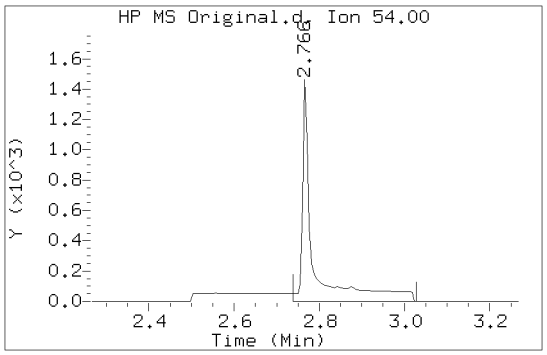
AFTER

MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
15:13



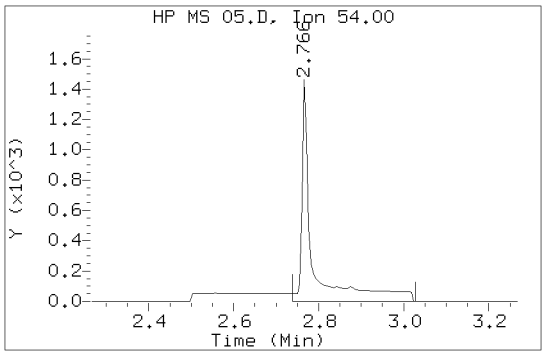
BEFORE

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



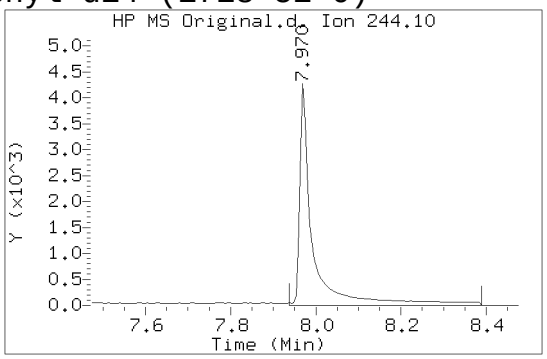
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D
Inj Date : 30-MAR-2023 13:29
InstruID : SV6.i
LabSampID : MBLK-191255

4-Terphenyl-d14 (1718-51-0)

Reason Code:

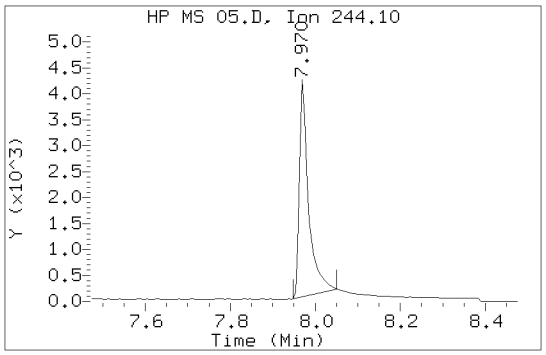
BEFORE

MASS
244.1
AREA
9054
HEIGHT
4273
30-Mar-2023
13:47
ALSHS
Server



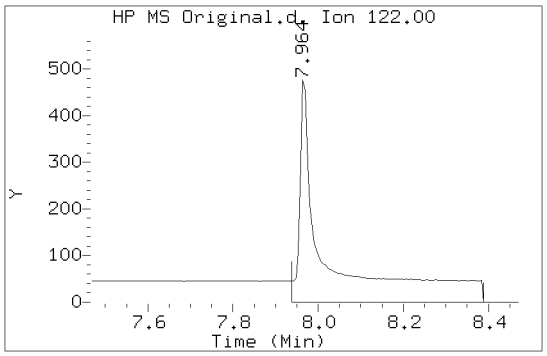
AFTER

MASS
244.1
AREA
6193
HEIGHT
4182
30-Mar-2023
15:13



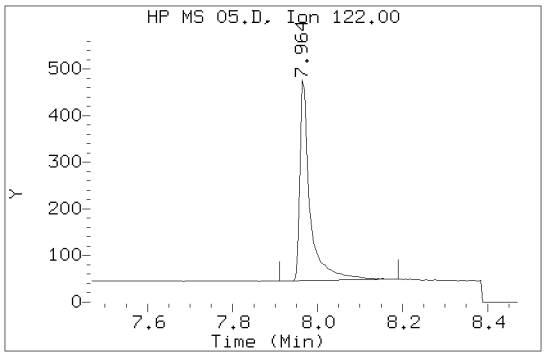
BEFORE

MASS
122
AREA
1997
HEIGHT
477
30-Mar-2023
13:47
ALSHS
Server



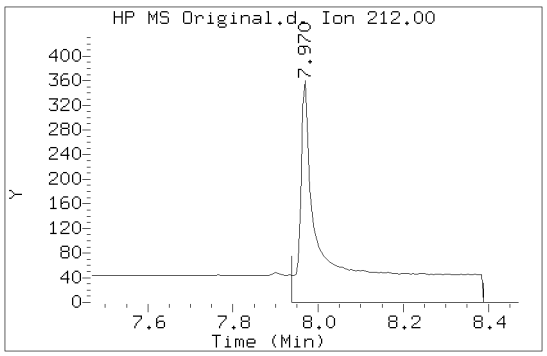
AFTER

MASS
122
AREA
716
HEIGHT
431
30-Mar-2023
15:13



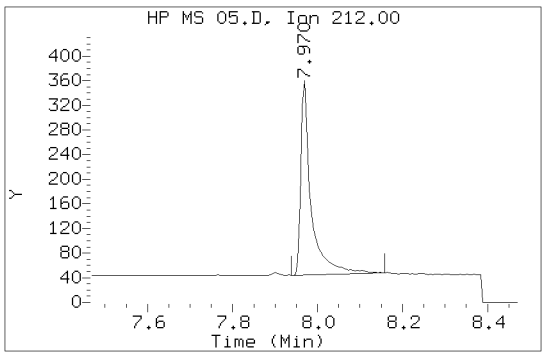
BEFORE

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

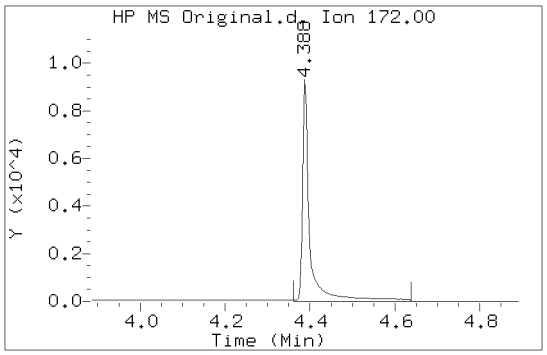


2-Fluorobiphenyl (321-60-8)

Reason Code:

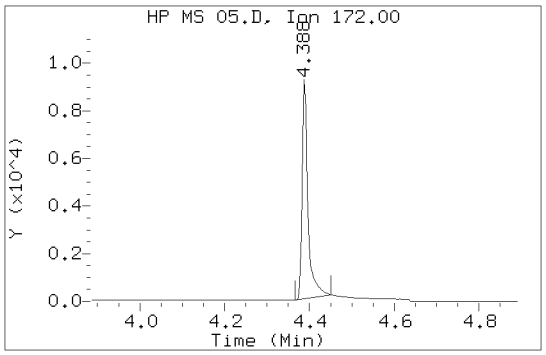
BEFORE

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



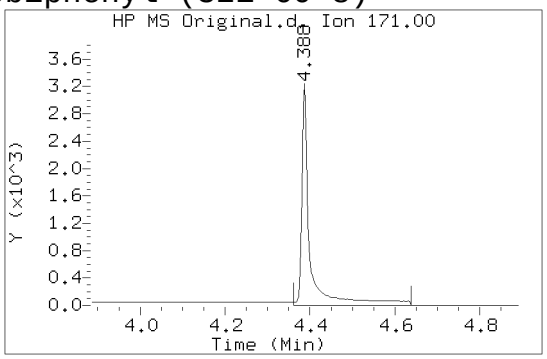
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\05.D
Inj Date : 30-MAR-2023 13:29
InstruID : SV6.i
LabSampID : MBLK-191255

2-Fluorobiphenyl (321-60-8)

Reason Code:

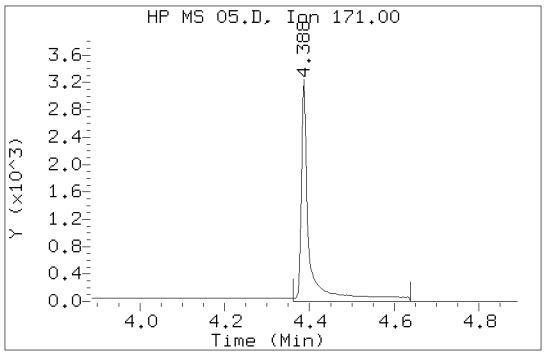
BEFORE

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.

01185645

Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D

Date : 30-MAR-2023 13:47

Client ID:

Instrument: SV6.i

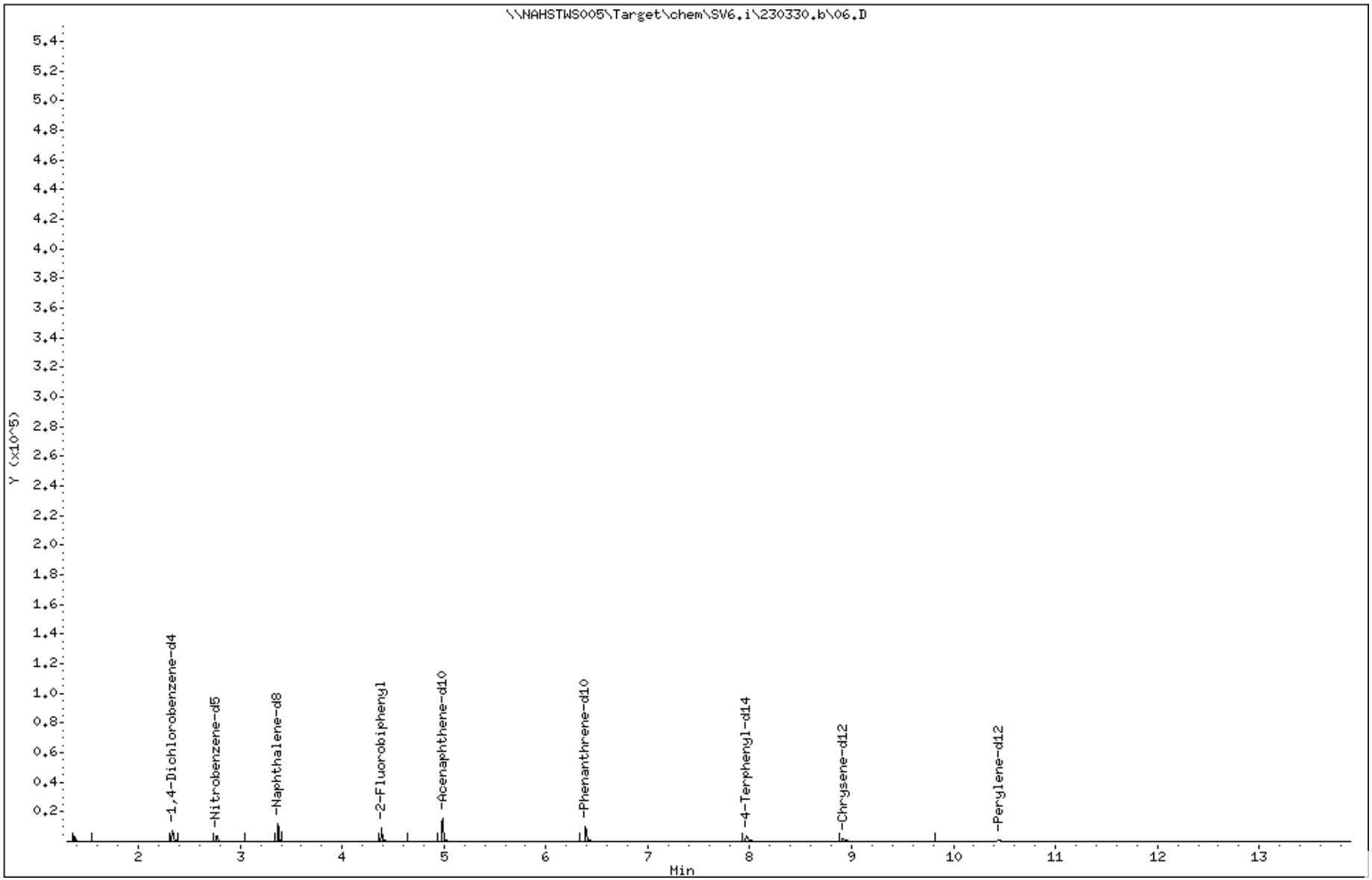
Sample Info: LCS-191255

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



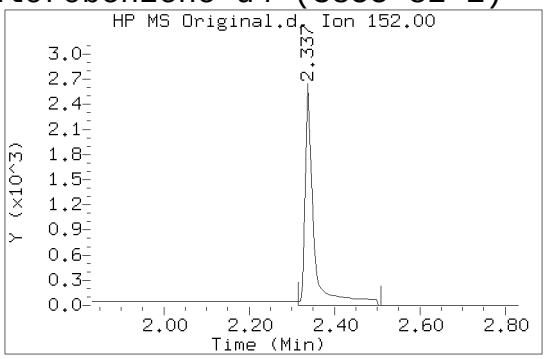
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D
Inj Date : 30-MAR-2023 13:47
InstruID : SV6.i
LabSampID : LCS-191255

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

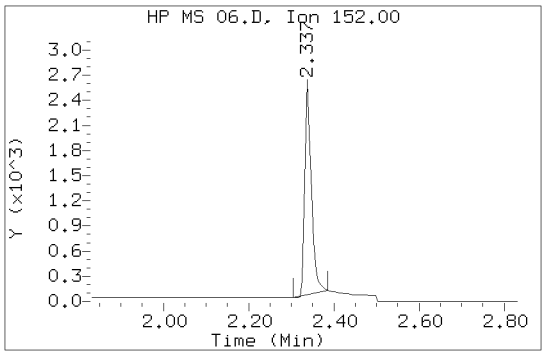
BEFORE

MASS
152
AREA
3714
HEIGHT
2646
30-Mar-2023
14:03
ALSHS
Server



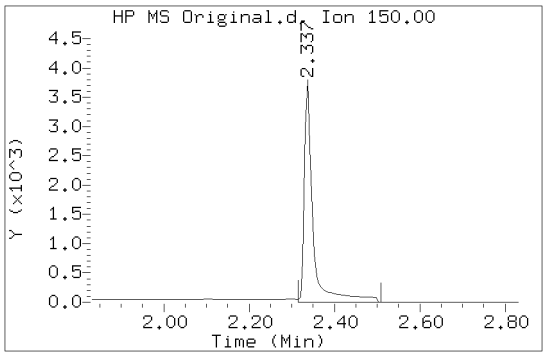
AFTER

MASS
152
AREA
2698
HEIGHT
2565
30-Mar-2023
15:15



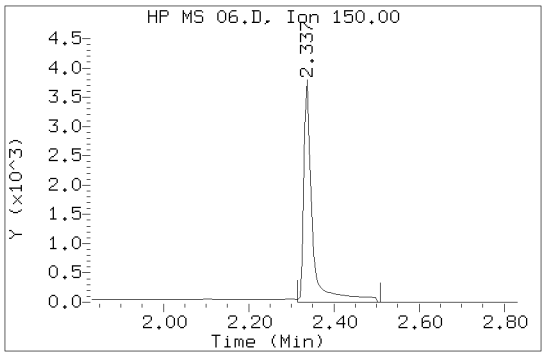
BEFORE

MASS
150
AREA
5325
HEIGHT
3796
30-Mar-2023
14:03
ALSHS
Server



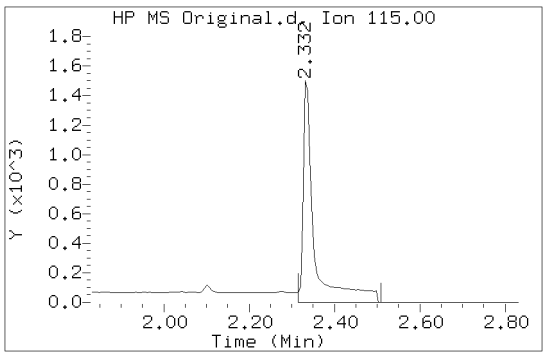
AFTER

MASS
150
AREA
5325
HEIGHT
3796
30-Mar-2023
15:15



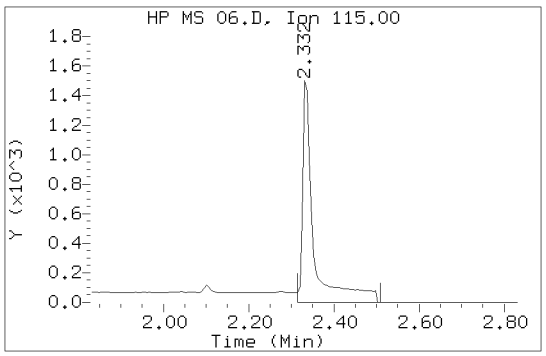
BEFORE

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

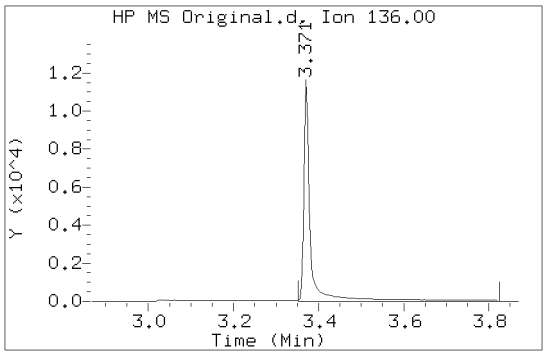


Naphthalene-d8 (1146-65-2)

Reason Code:

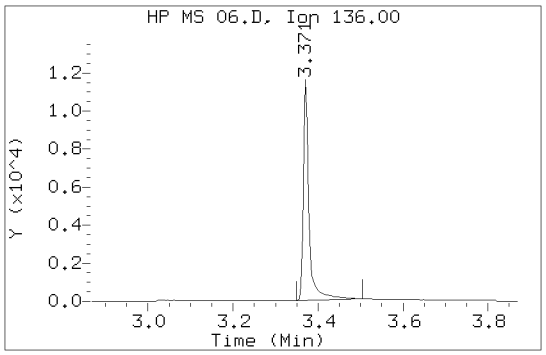
BEFORE

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



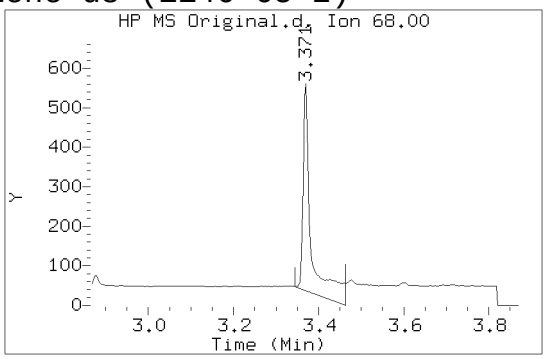
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D
Inj Date : 30-MAR-2023 13:47
InstruID : SV6.i
LabSampID : LCS-191255

Naphthalene-d8 (1146-65-2)

Reason Code:

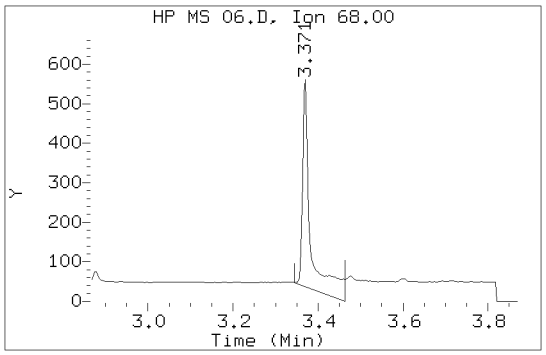
BEFORE

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

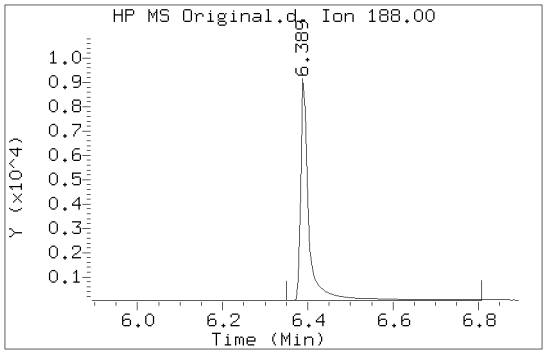


Phenanthrene-d10 (1517-22-2)

Reason Code:

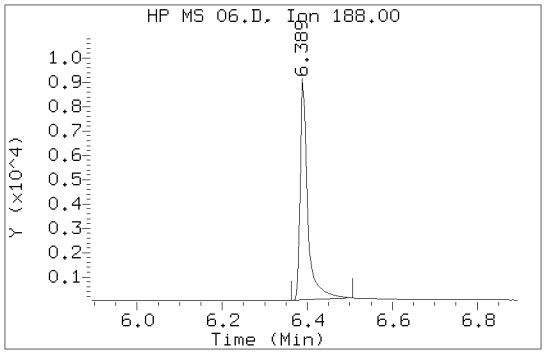
BEFORE

MASS
188
AREA
12138
HEIGHT
9108
30-Mar-2023
14:03
ALSHS
Server



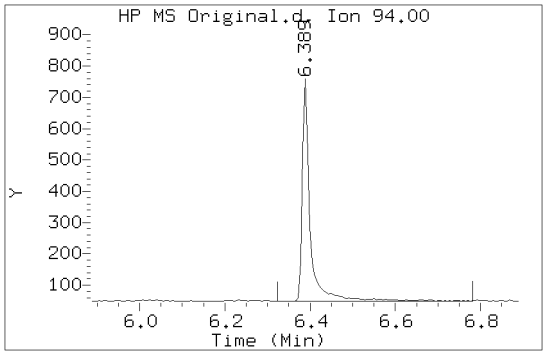
AFTER

MASS
188
AREA
10959
HEIGHT
9088
30-Mar-2023
15:15



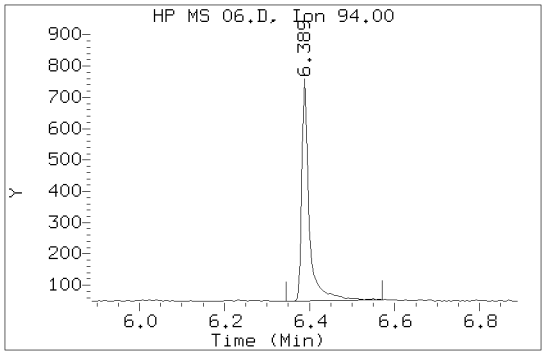
BEFORE

MASS
94
AREA
917
HEIGHT
710
30-Mar-2023
14:03
ALSHS
Server



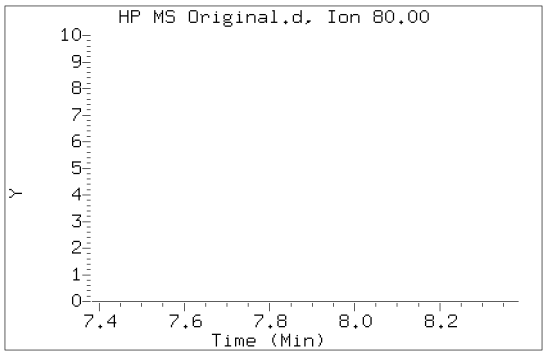
AFTER

MASS
94
AREA
841
HEIGHT
708
30-Mar-2023
15:15



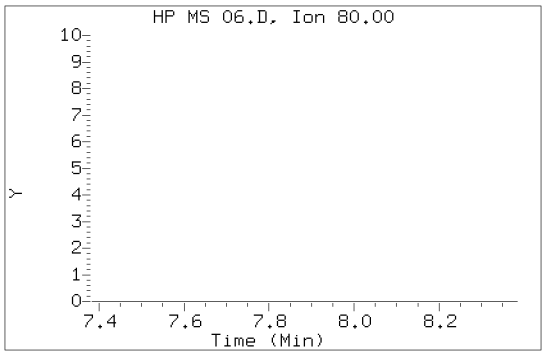
BEFORE

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



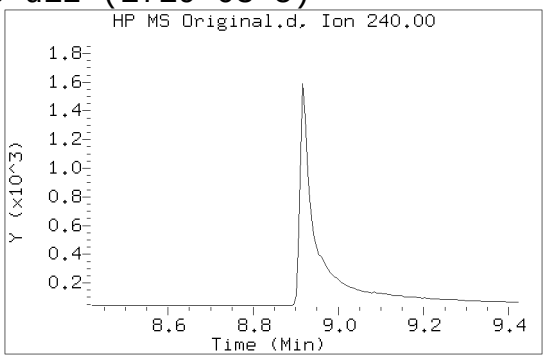
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D
Inj Date : 30-MAR-2023 13:47
InstruID : SV6.i
LabSampID : LCS-191255

Chrysene-d12 (1719-03-5)

Reason Code:

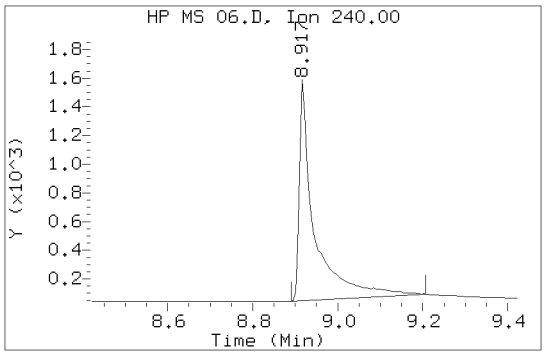
BEFORE

MASS
240
AREA
0
HEIGHT
0
30-Mar-2023
14:03
ALSHS
Server



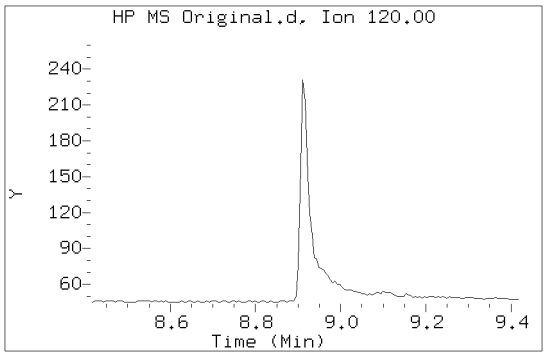
AFTER

MASS
240
AREA
3794
HEIGHT
1540
30-Mar-2023
15:15



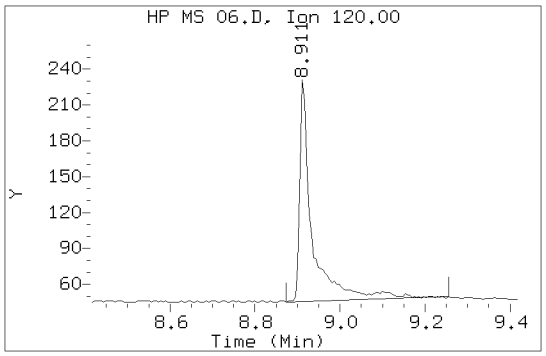
BEFORE

MASS
120
AREA
0
HEIGHT
0
30-Mar-2023
14:03
ALSHS
Server



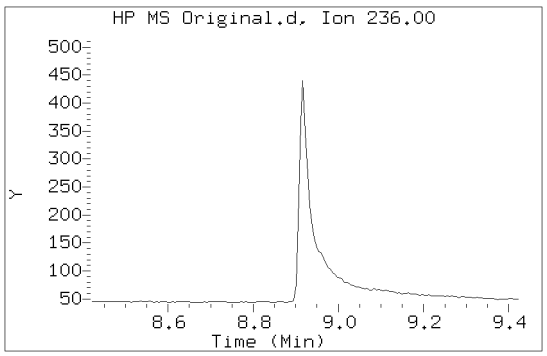
AFTER

MASS
120
AREA
374
HEIGHT
185
30-Mar-2023
15:15



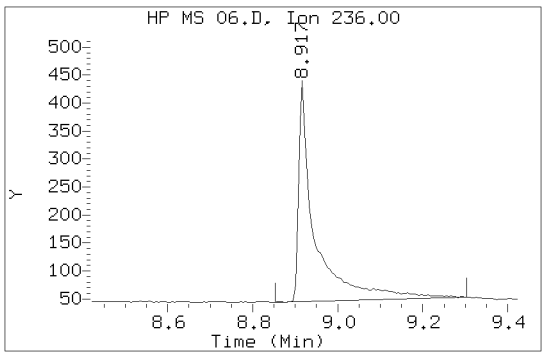
BEFORE

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

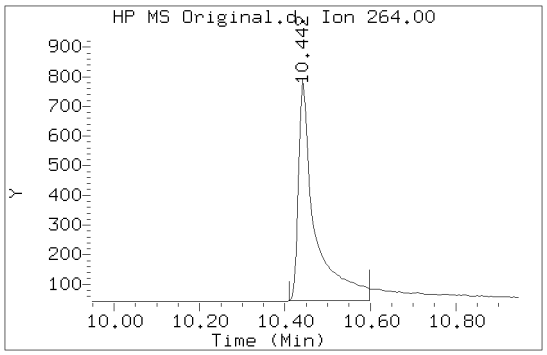


Perylene-d12 (1520-96-3)

Reason Code:

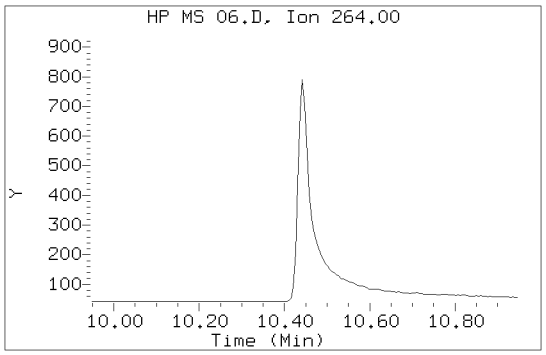
BEFORE

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

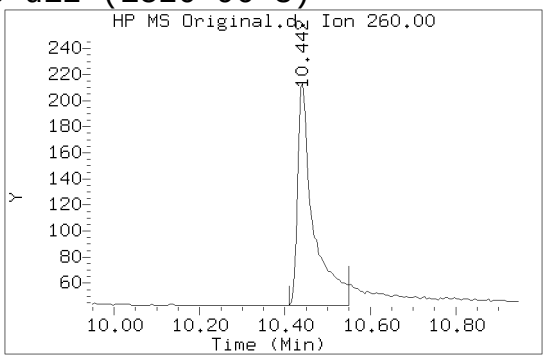


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D
Inj Date : 30-MAR-2023 13:47
InstruID : SV6.i
LabSampID : LCS-191255

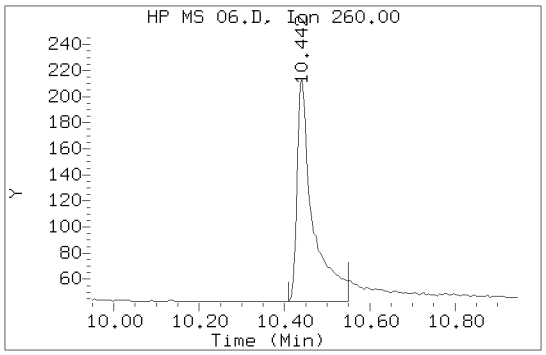
Perylene-d12 (1520-96-3)

Reason Code:

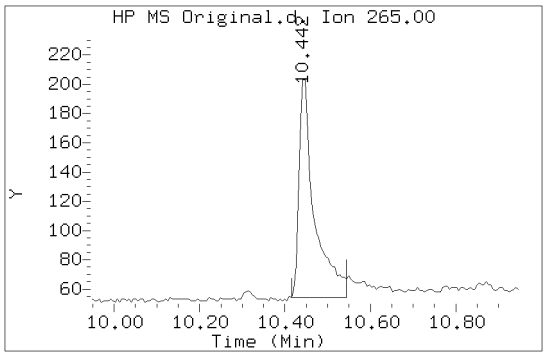
BEFORE
MASS
260
AREA
434
HEIGHT
170
30-Mar-2023
14:03
ALSHS
Server



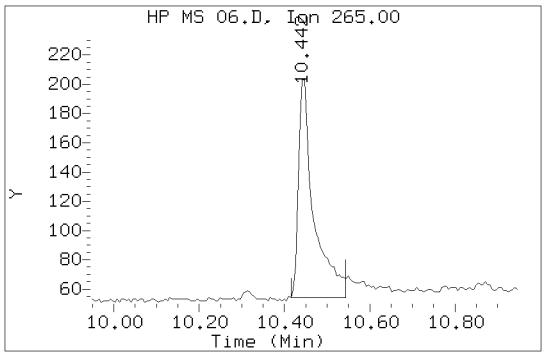
AFTER
MASS
260
AREA
434
HEIGHT
170
30-Mar-2023
15:15



BEFORE
MASS
265
AREA
375
HEIGHT
149
30-Mar-2023
14:03
ALSHS
Server



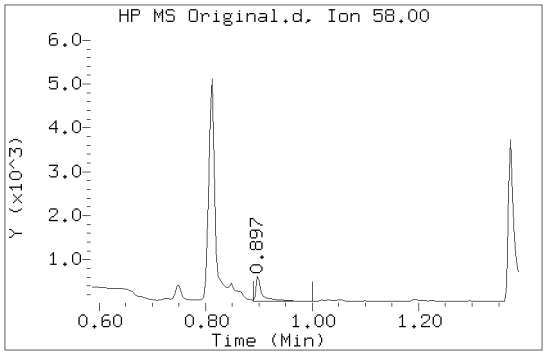
AFTER
MASS
265
AREA
375
HEIGHT
149
30-Mar-2023
15:15



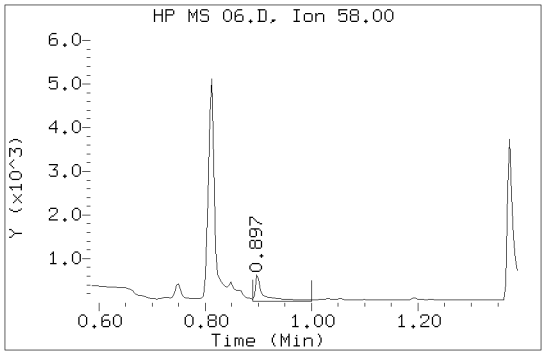
1,4-Dioxane ()

Reason Code:

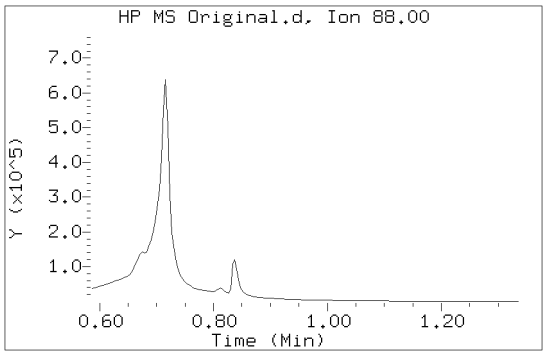
BEFORE
MASS
58
AREA
460
HEIGHT
575
30-Mar-2023
14:03
ALSHS
Server



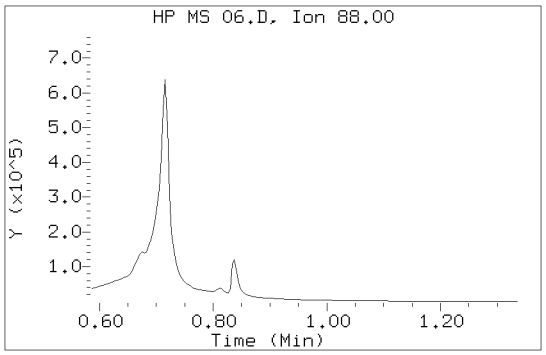
AFTER
MASS
58
AREA
655
HEIGHT
603
30-Mar-2023
15:15



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



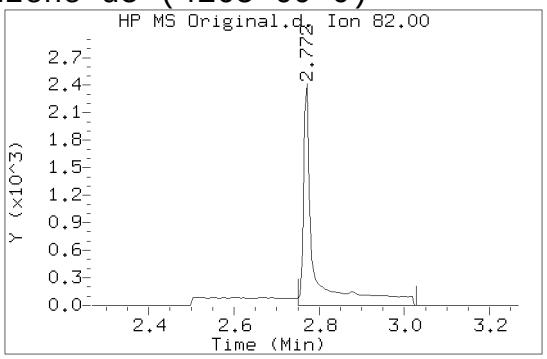
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D
Inj Date : 30-MAR-2023 13:47
InstruID : SV6.i
LabSampID : LCS-191255

Nitrobenzene-d5 (4165-60-0)

Reason Code:

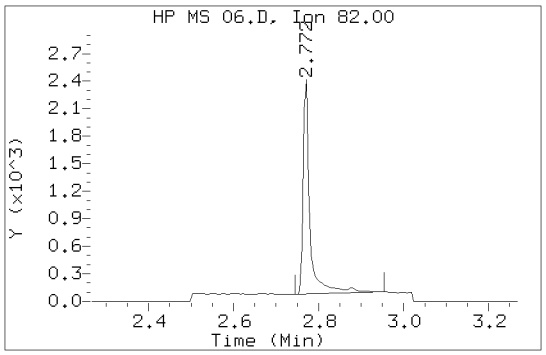
BEFORE

MASS
82
AREA
4108
HEIGHT
2416
30-Mar-2023
14:03
ALSHS
Server



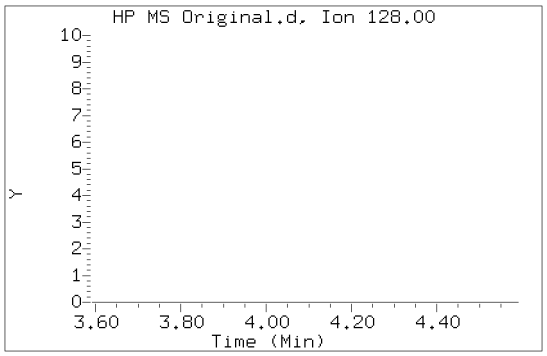
AFTER

MASS
82
AREA
2636
HEIGHT
2336
30-Mar-2023
15:15



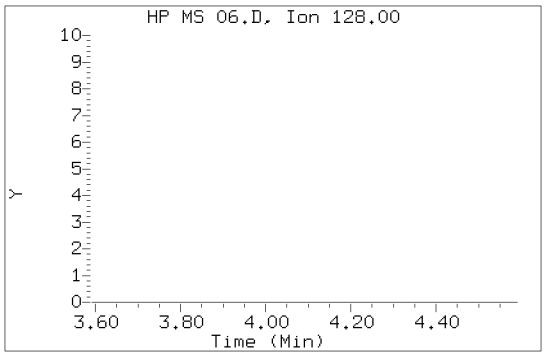
BEFORE

MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
14:03
ALSHS
Server



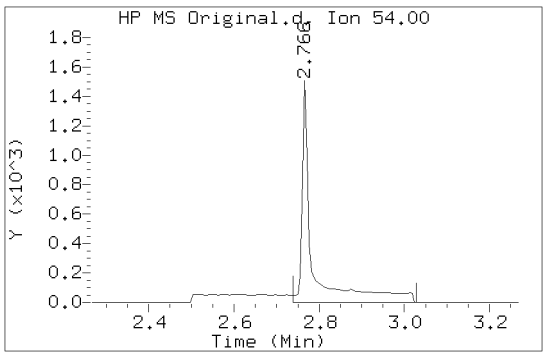
AFTER

MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
15:15



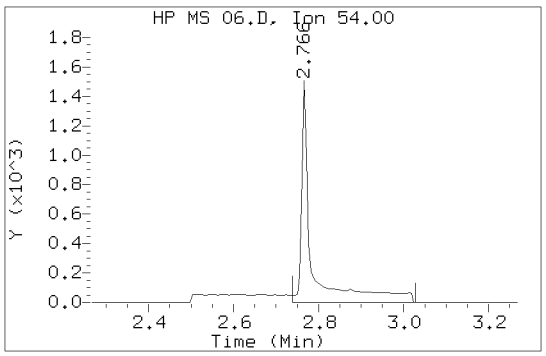
BEFORE

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

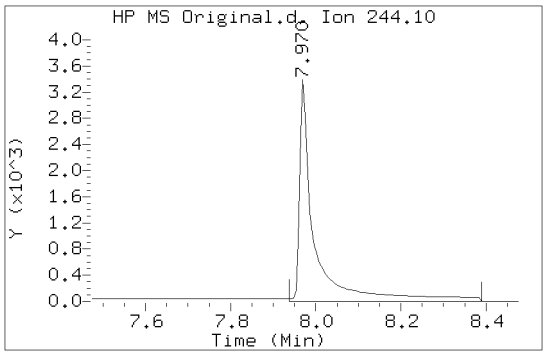


4-Terphenyl-d14 (1718-51-0)

Reason Code:

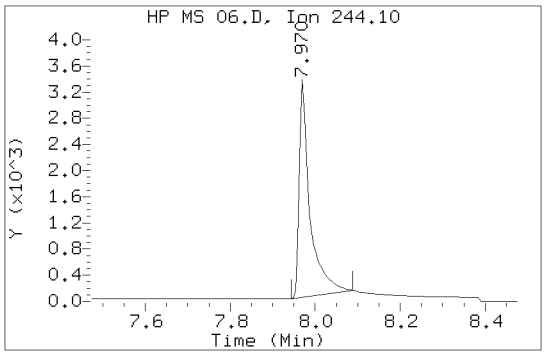
BEFORE

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



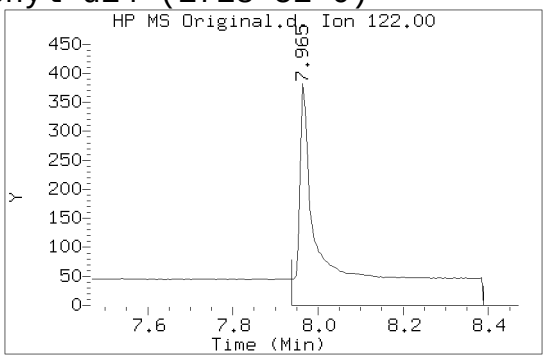
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\06.D
Inj Date : 30-MAR-2023 13:47
InstruID : SV6.i
LabSampID : LCS-191255

4-Terphenyl-d14 (1718-51-0)

Reason Code:

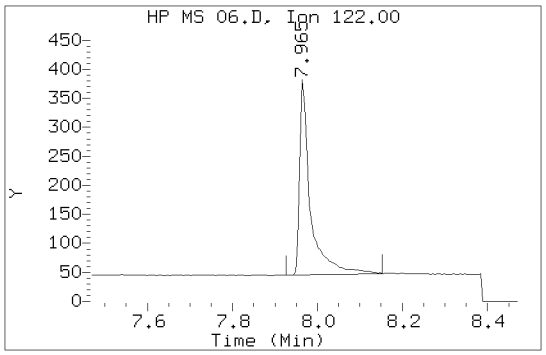
BEFORE

MASS
122
AREA
1859
HEIGHT
382
30-Mar-2023
14:03
ALSHS
Server



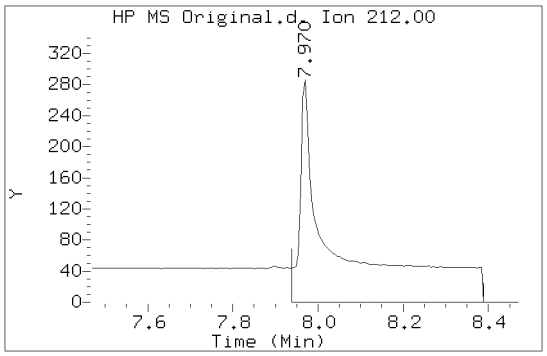
AFTER

MASS
122
AREA
589
HEIGHT
336
30-Mar-2023
15:15



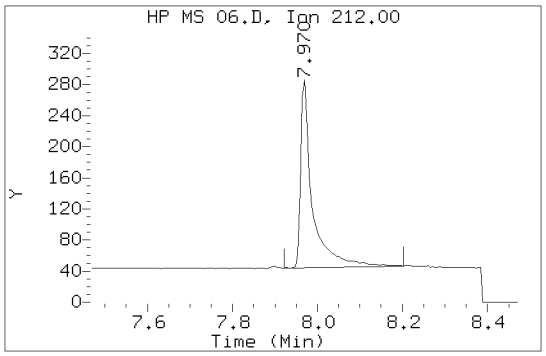
BEFORE

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

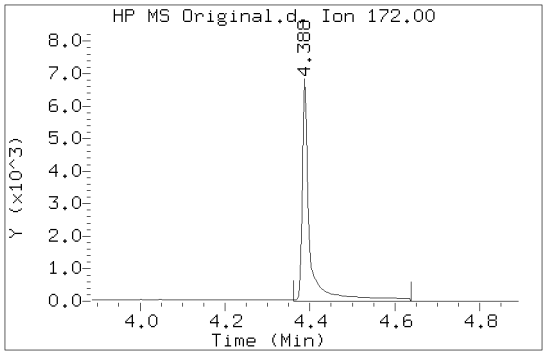


2-Fluorobiphenyl (321-60-8)

Reason Code:

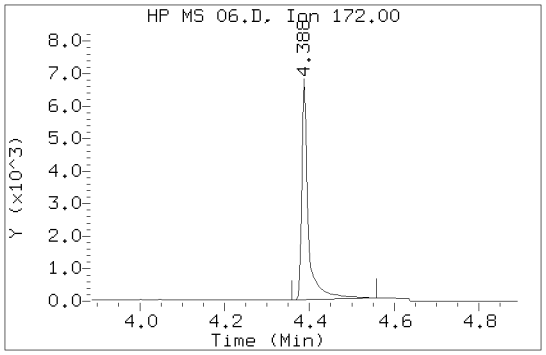
BEFORE

MASS
172
AREA
8600
HEIGHT
6837
30-Mar-2023
14:03
ALSHS
Server



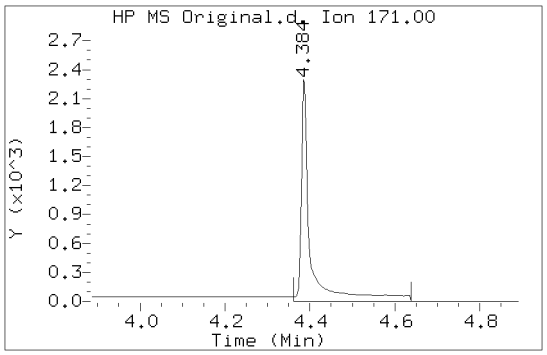
AFTER

MASS
172
AREA
7299
HEIGHT
6781
30-Mar-2023
15:15



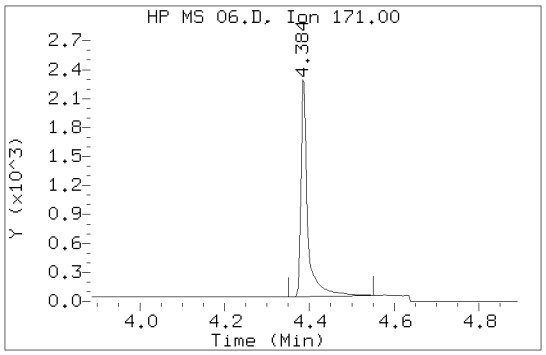
BEFORE

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.

01185653

Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D

Date : 30-MAR-2023 14:05

Client ID:

Instrument: SV6.i

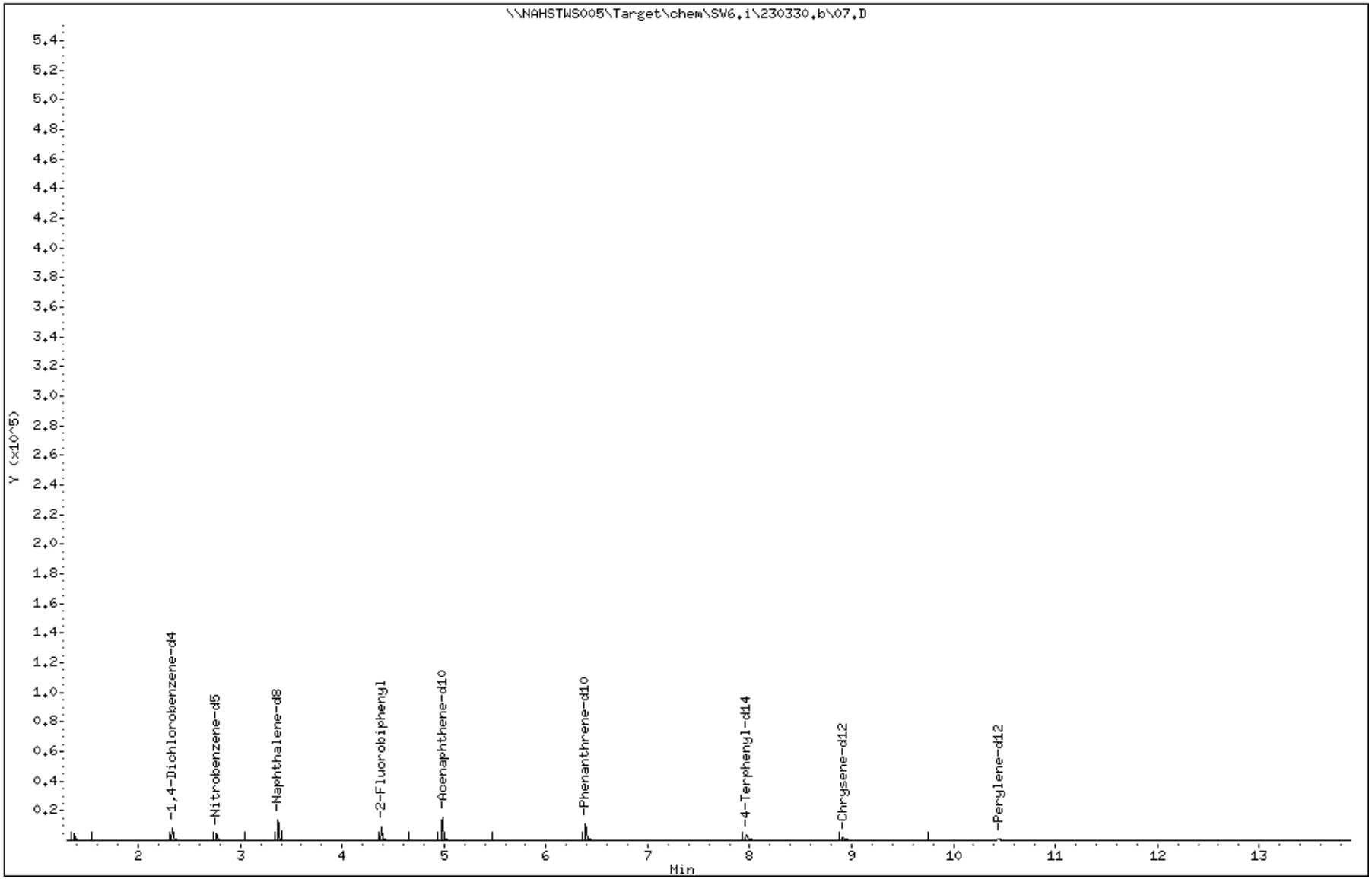
Sample Info: LCSD-191255

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

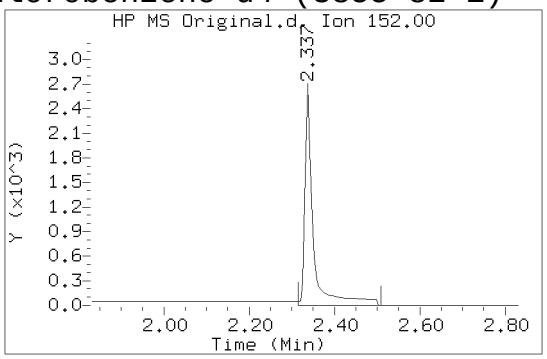


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D
Inj Date : 30-MAR-2023 14:05
InstruID : SV6.i
LabSampID : LCSD-191255

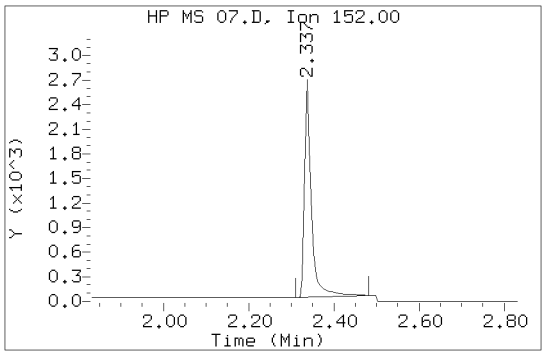
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

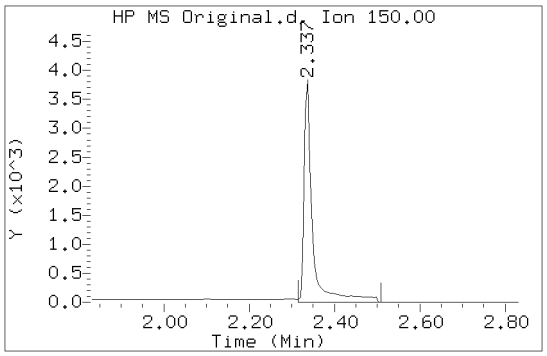
BEFORE
MASS
152
AREA
3610
HEIGHT
2705
30-Mar-2023
14:19
ALSHS
Server



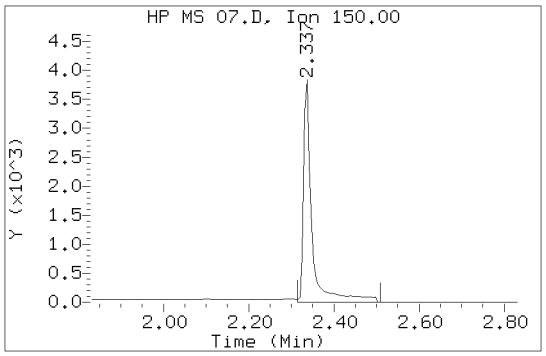
AFTER
MASS
152
AREA
2919
HEIGHT
2654
30-Mar-2023
15:16



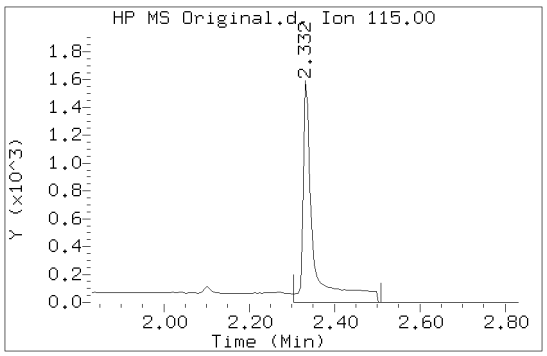
BEFORE
MASS
150
AREA
5208
HEIGHT
3835
30-Mar-2023
14:19
ALSHS
Server



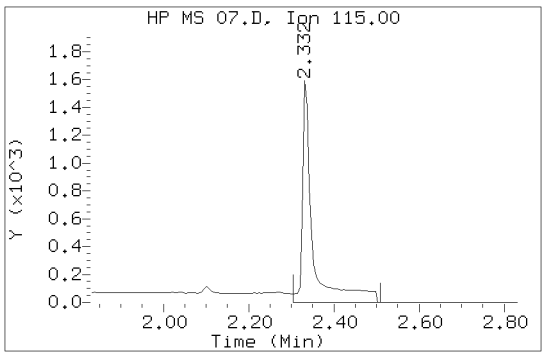
AFTER
MASS
150
AREA
5208
HEIGHT
3835
30-Mar-2023
15:16



BEFORE
MASS
115
AREA
2629
HEIGHT
1592
30-Mar-2023
14:19
ALSHS
Server



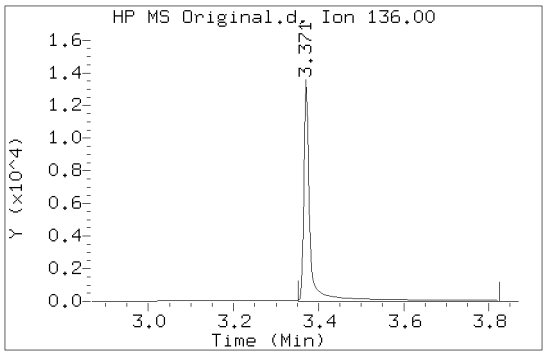
AFTER
MASS
115
AREA
2629
HEIGHT
1592
30-Mar-2023
15:16



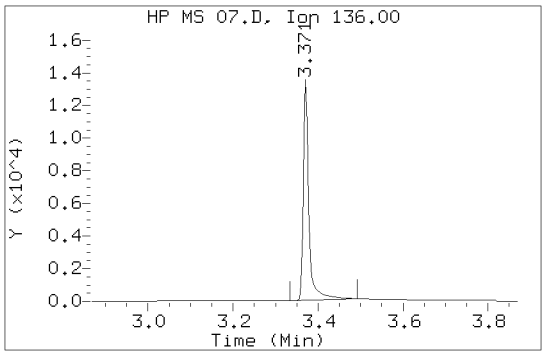
Naphthalene-d8 (1146-65-2)

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



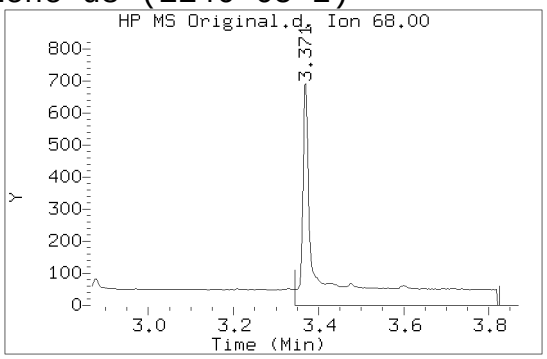
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D
Inj Date : 30-MAR-2023 14:05
InstruID : SV6.i
LabSampID : LCSD-191255

Naphthalene-d8 (1146-65-2)

Reason Code:

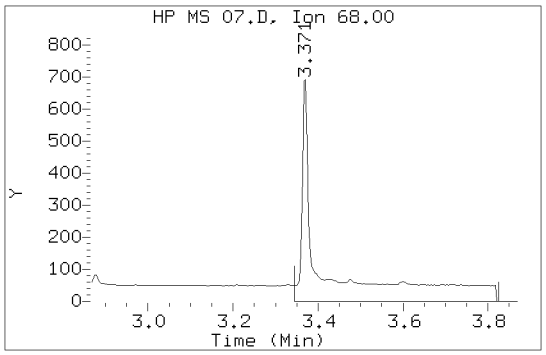
BEFORE

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

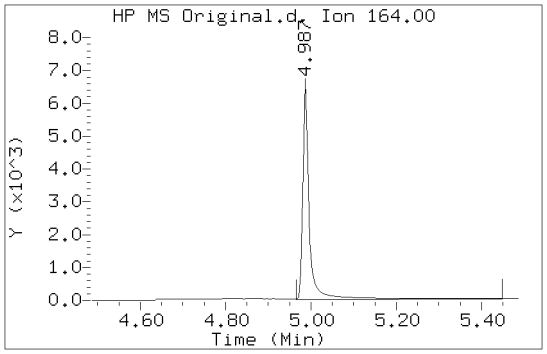


Acenaphthene-d10 (15067-26-2)

Reason Code:

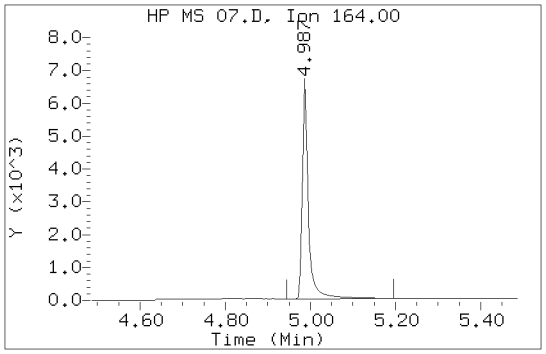
BEFORE

MASS
164
AREA
7263
HEIGHT
6728
30-Mar-2023
14:19
ALSHS
Server



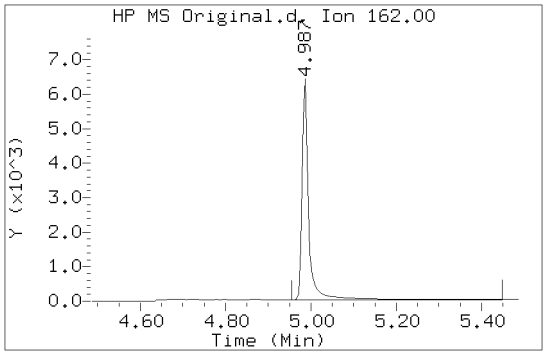
AFTER

MASS
164
AREA
6643
HEIGHT
6700
30-Mar-2023
15:16



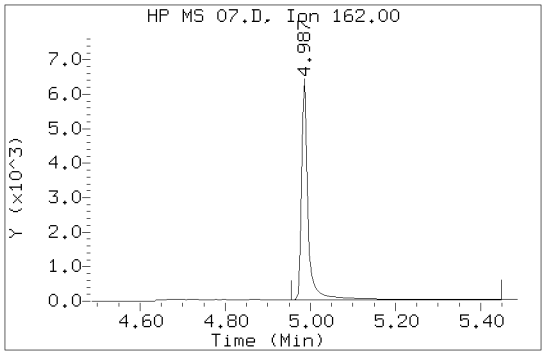
BEFORE

MASS
162
AREA
6945
HEIGHT
6397
30-Mar-2023
14:19
ALSHS
Server



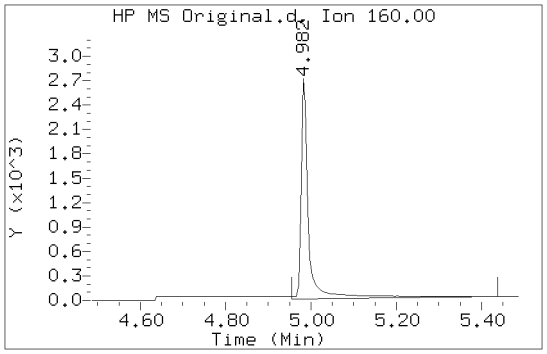
AFTER

MASS
162
AREA
6945
HEIGHT
6397
30-Mar-2023
15:16



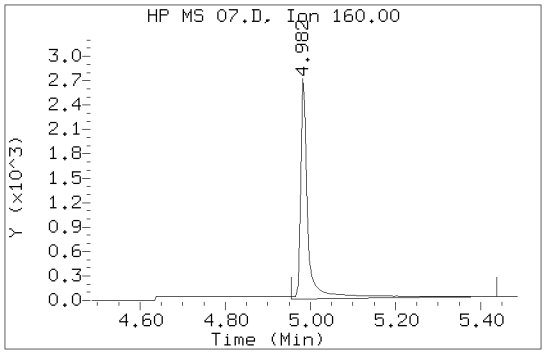
BEFORE

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



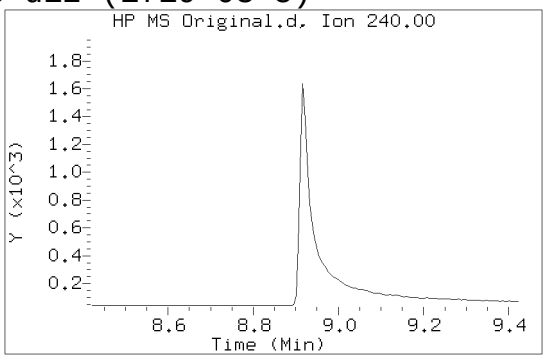
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D
Inj Date : 30-MAR-2023 14:05
InstruID : SV6.i
LabSampID : LCSD-191255

Chrysene-d12 (1719-03-5)

Reason Code:

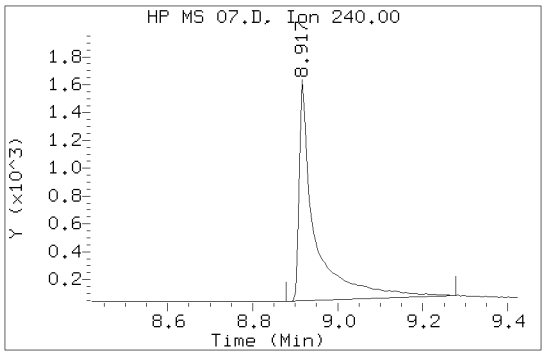
BEFORE

MASS
240
AREA
0
HEIGHT
0
30-Mar-2023
14:19
ALSHS
Server



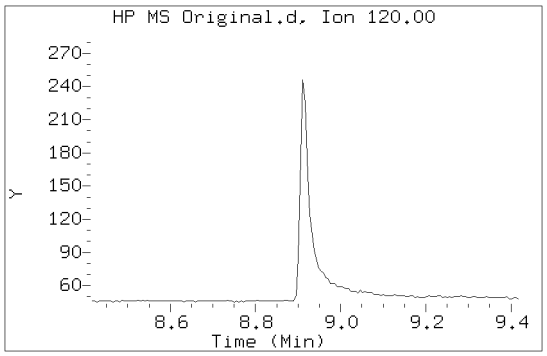
AFTER

MASS
240
AREA
4053
HEIGHT
1587
30-Mar-2023
15:16



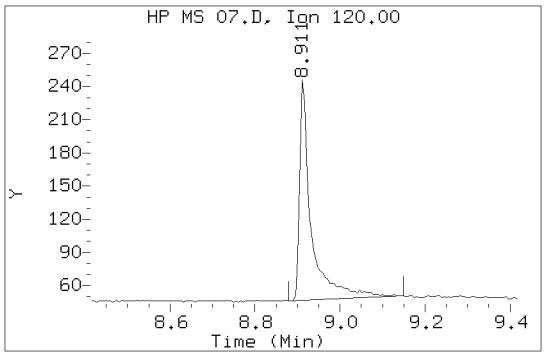
BEFORE

MASS
120
AREA
0
HEIGHT
0
30-Mar-2023
14:19
ALSHS
Server



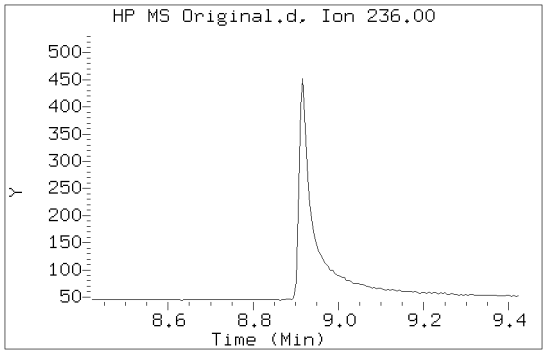
AFTER

MASS
120
AREA
375
HEIGHT
199
30-Mar-2023
15:16



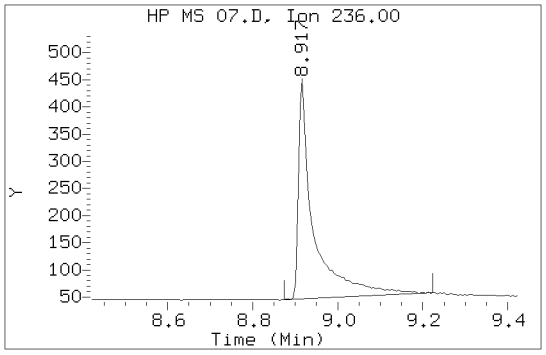
BEFORE

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

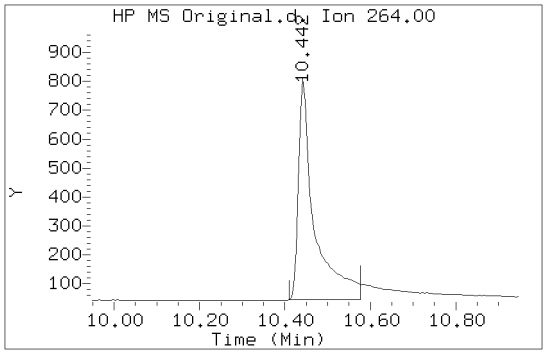


Perylene-d12 (1520-96-3)

Reason Code:

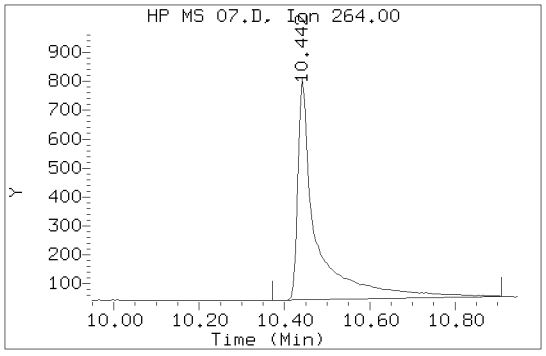
BEFORE

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

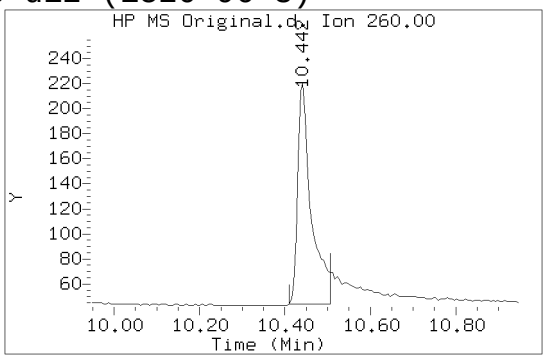


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D
Inj Date : 30-MAR-2023 14:05
InstruID : SV6.i
LabSampID : LCSD-191255

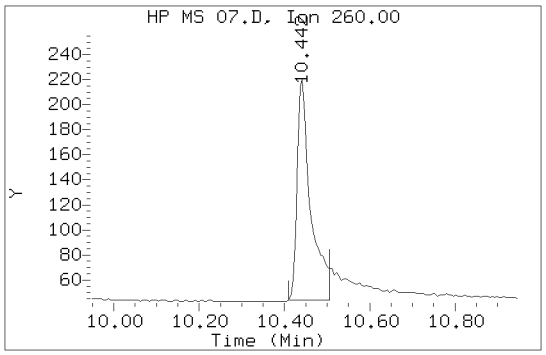
Perylene-d12 (1520-96-3)

Reason Code:

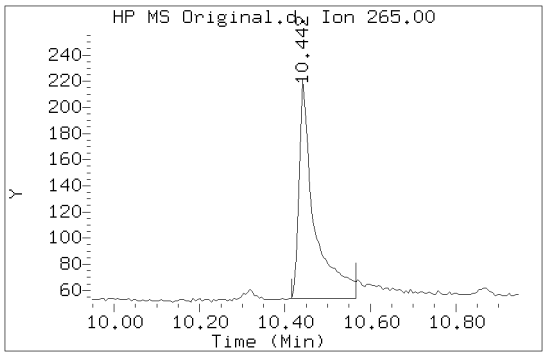
BEFORE
MASS
260
AREA
392
HEIGHT
176
30-Mar-2023
14:19
ALSHS
Server



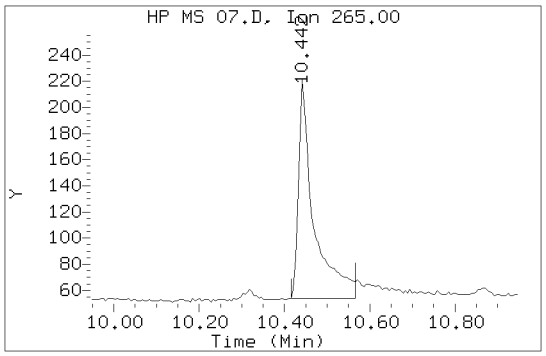
AFTER
MASS
260
AREA
392
HEIGHT
176
30-Mar-2023
15:16



BEFORE
MASS
265
AREA
412
HEIGHT
167
30-Mar-2023
14:19
ALSHS
Server



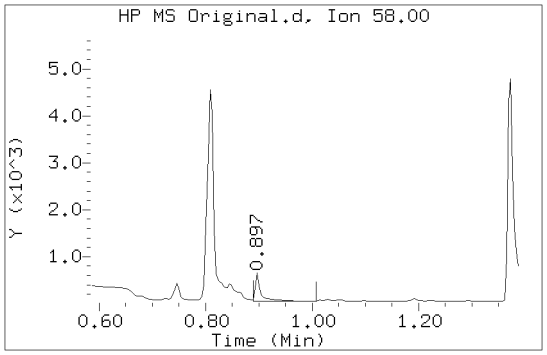
AFTER
MASS
265
AREA
412
HEIGHT
167
30-Mar-2023
15:16



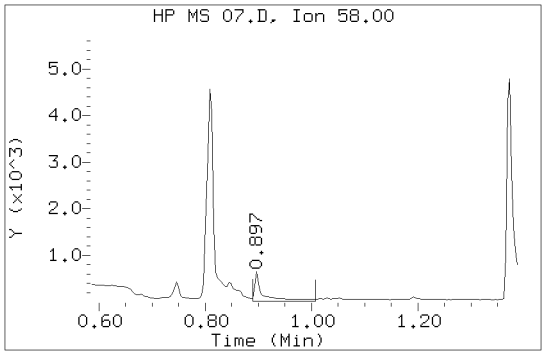
1,4-Dioxane ()

Reason Code:

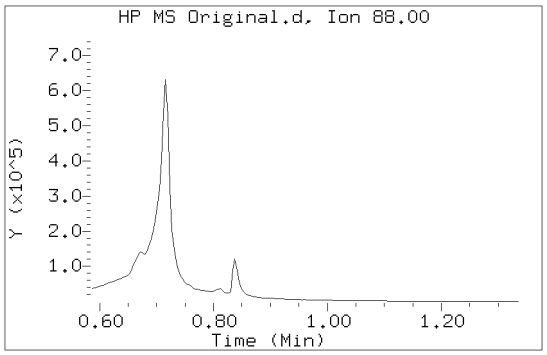
BEFORE
MASS
58
AREA
433
HEIGHT
596
30-Mar-2023
14:19
ALSHS
Server



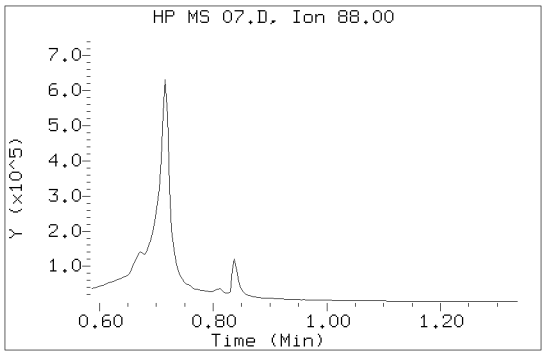
AFTER
MASS
58
AREA
688
HEIGHT
631
30-Mar-2023
15:16



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



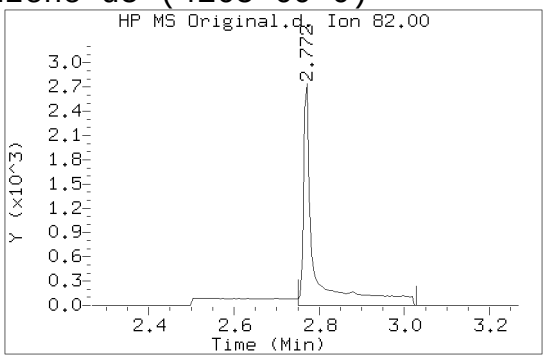
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D
Inj Date : 30-MAR-2023 14:05
InstruID : SV6.i
LabSampID : LCSD-191255

Nitrobenzene-d5 (4165-60-0)

Reason Code:

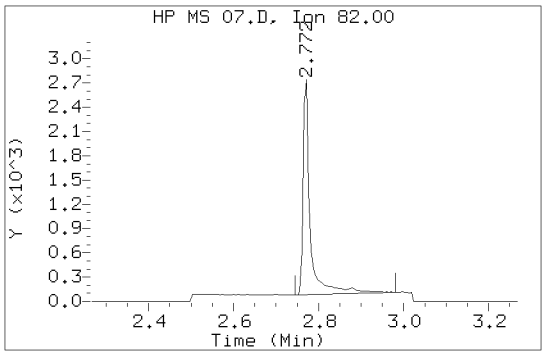
BEFORE

MASS
82
AREA
4701
HEIGHT
2741
30-Mar-2023
14:19
ALSHS
Server



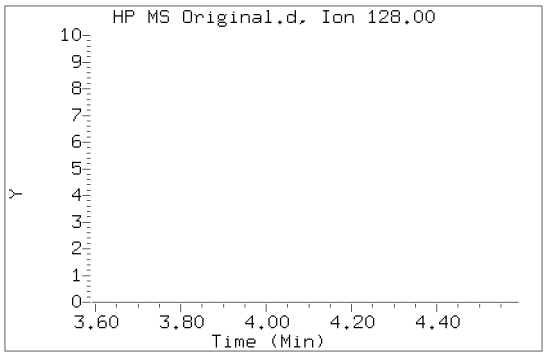
AFTER

MASS
82
AREA
3128
HEIGHT
2658
30-Mar-2023
15:16



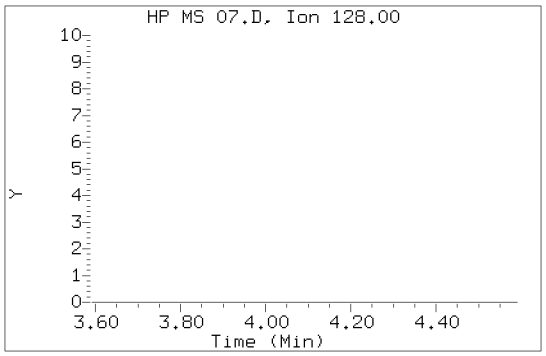
BEFORE

MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
14:19
ALSHS
Server



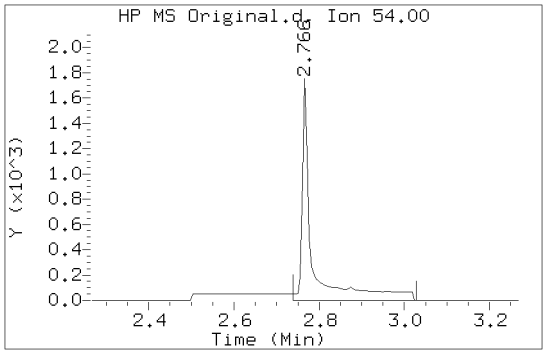
AFTER

MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
15:16



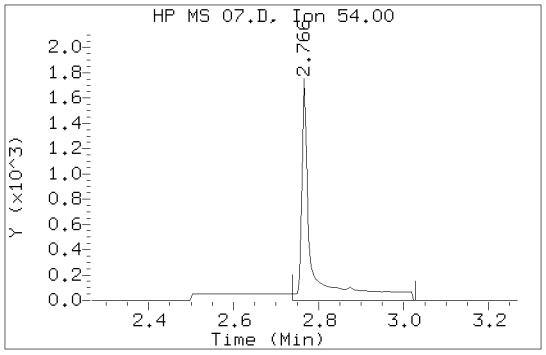
BEFORE

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

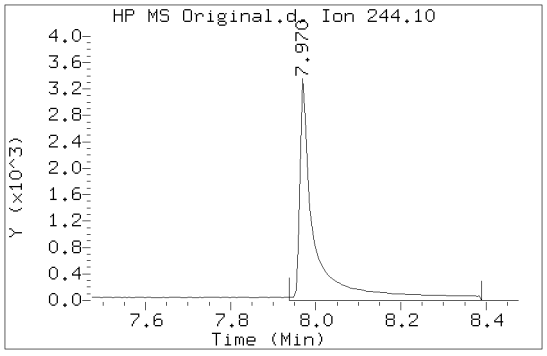


4-Terphenyl-d14 (1718-51-0)

Reason Code:

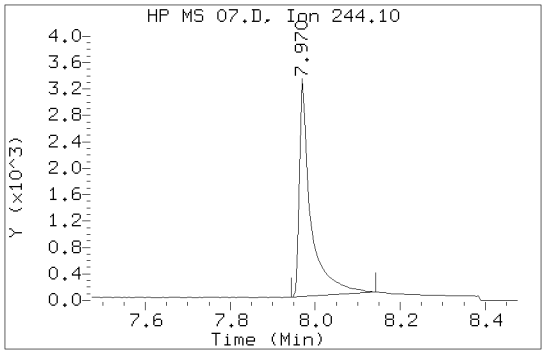
BEFORE

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



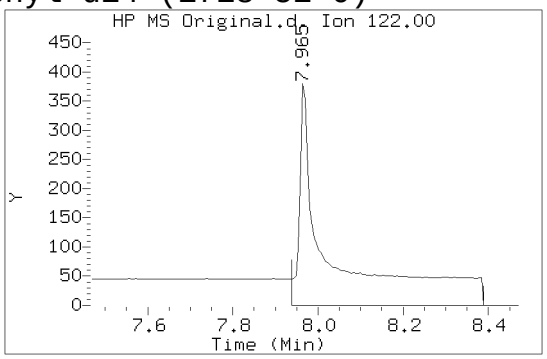
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\07.D
Inj Date : 30-MAR-2023 14:05
InstruID : SV6.i
LabSampID : LCSD-191255

4-Terphenyl-d14 (1718-51-0)

Reason Code:

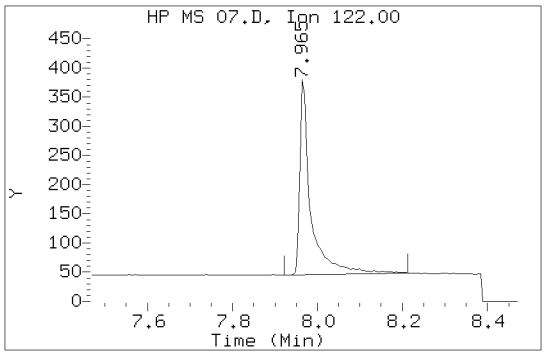
BEFORE

MASS
122
AREA
1869
HEIGHT
380
30-Mar-2023
14:19
ALSHS
Server



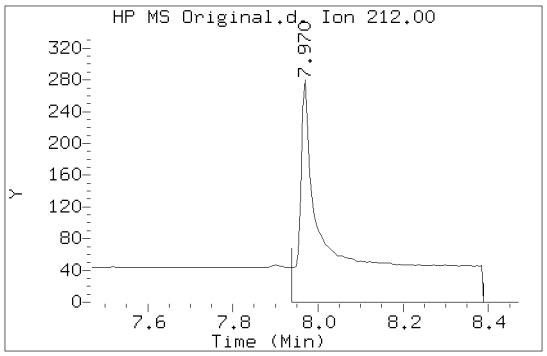
AFTER

MASS
122
AREA
599
HEIGHT
334
30-Mar-2023
15:16



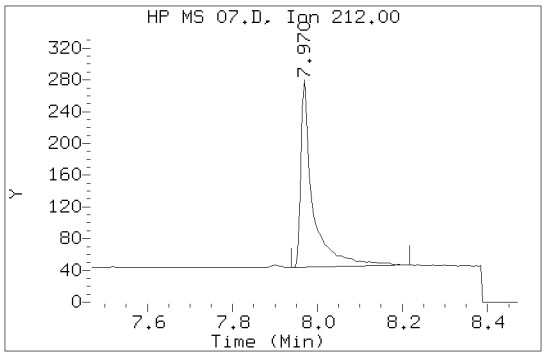
BEFORE

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

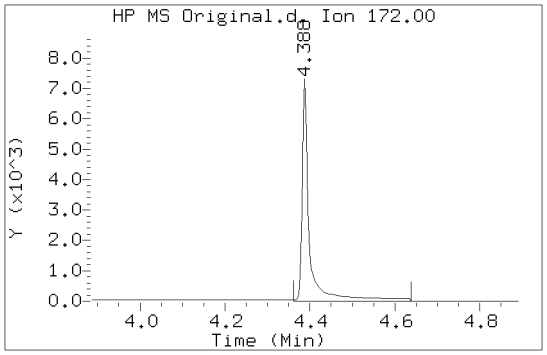


2-Fluorobiphenyl (321-60-8)

Reason Code:

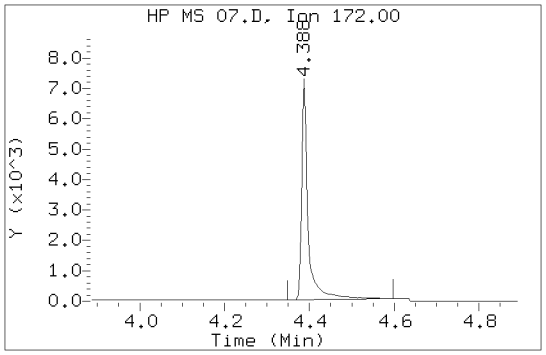
BEFORE

MASS
172
AREA
8845
HEIGHT
7312
30-Mar-2023
14:19
ALSHS
Server



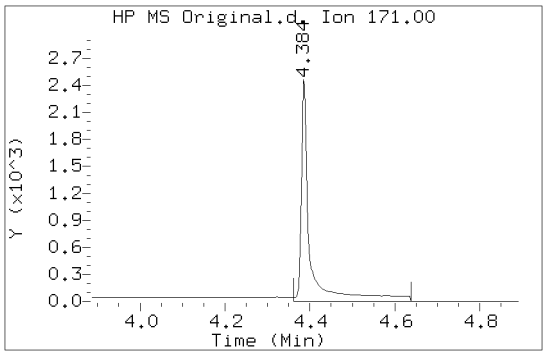
AFTER

MASS
172
AREA
7665
HEIGHT
7256
30-Mar-2023
15:16



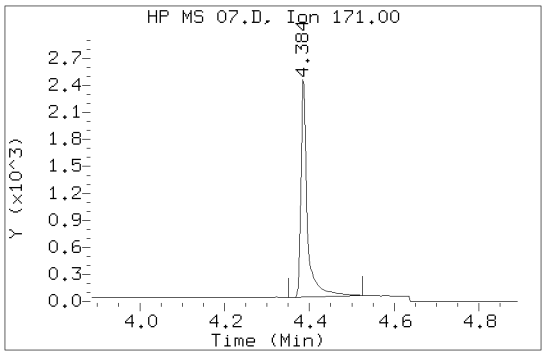
BEFORE

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\11.D Page 1
Report Date: 30-Mar-2023 16:28

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\230330.b\11.D
Lab Smp Id: HS23031294-01
Inj Date : 30-MAR-2023 15:51
Operator : LG Inst ID: SV6.i
Smp Info : HS23031294-01X10
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: 10
Dil Factor: 10.00000
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	10.000	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	2.342	2.331	(1.000)	2756	0.10000	(aM)
* 45 Naphthalene-d8	136	3.370	3.370	(1.000)	8637	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.771	2.766	(0.822)	235	0.00943	0.09430
* 86 Acenaphthene-d10	164	4.986	4.986	(1.000)	5440	0.10000	
$ 69 2-Fluorobiphenyl	172	4.387	4.387	(0.880)	592	0.00829	0.08291(M)
* 126 Phenanthrene-d10	188	6.393	6.393	(1.000)	10611	0.10000	(M)
* 182 Chrysene-d12	240	8.916	8.922	(1.000)	3356	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.969	7.975	(0.894)	326	0.02025	0.2025(RM)
* 198 Perylene-d12	264	10.441	10.447	(1.000)	1531	0.10000	(M)
1 1,4-Dioxane	58	0.896	0.885	(0.383)	1188	0.11817	1.182(M)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

01185661

Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\11.D

Date : 30-MAR-2023 15:51

Client ID:

Instrument: SV6.i

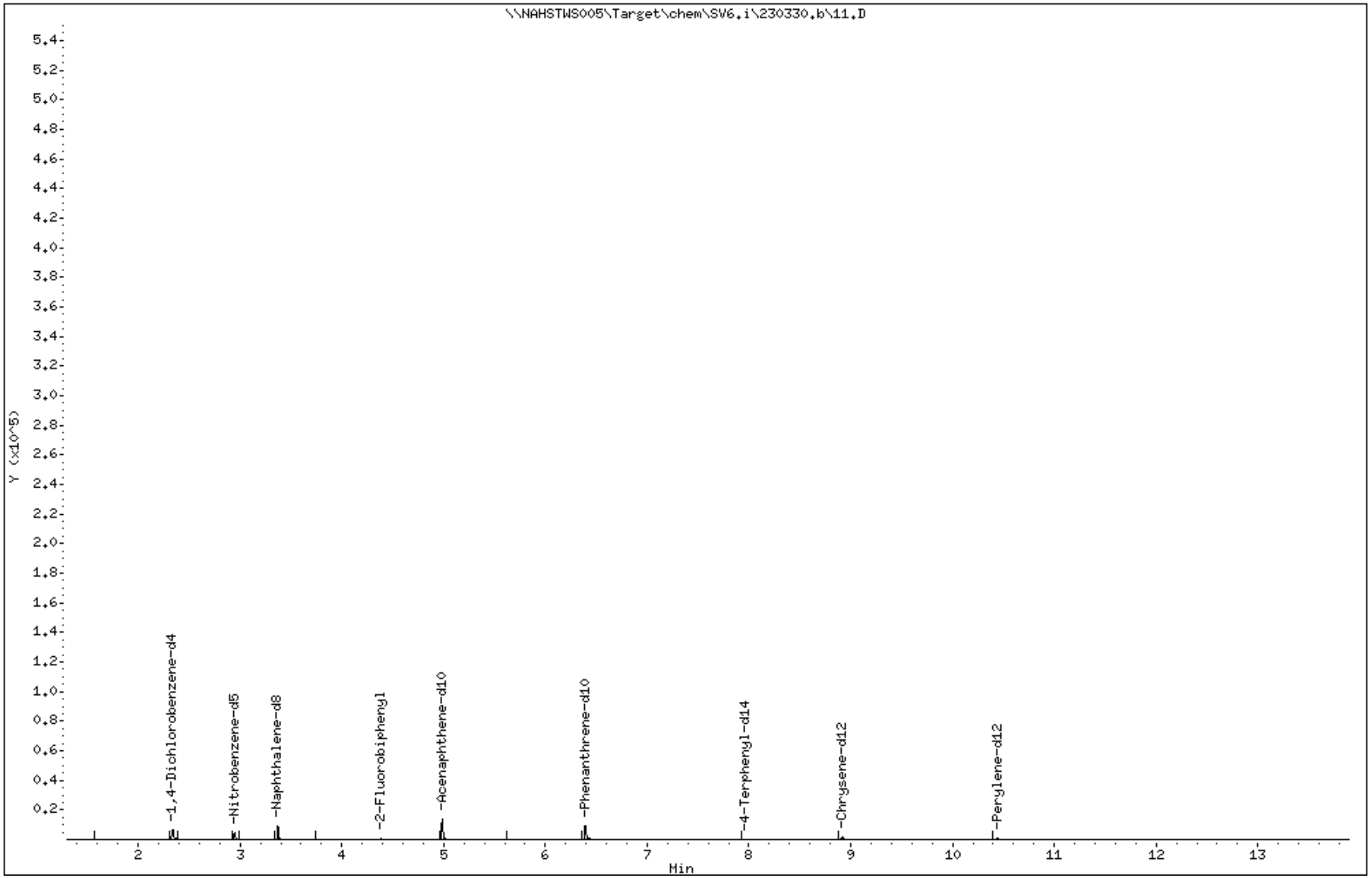
Sample Info: HS23031294-01X10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\230330.b\11.D

Date : 30-MAR-2023 15:51

Client ID:

Instrument: SV6.i

Sample Info: HS23031294-01X10

Purge Volume: 1000.0

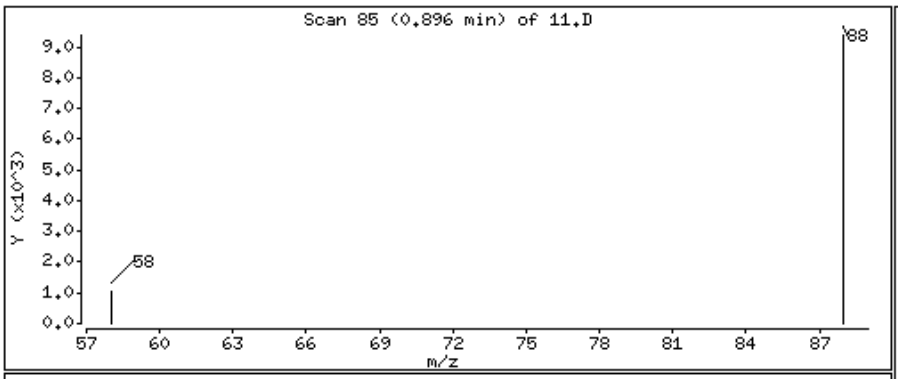
Operator: LG

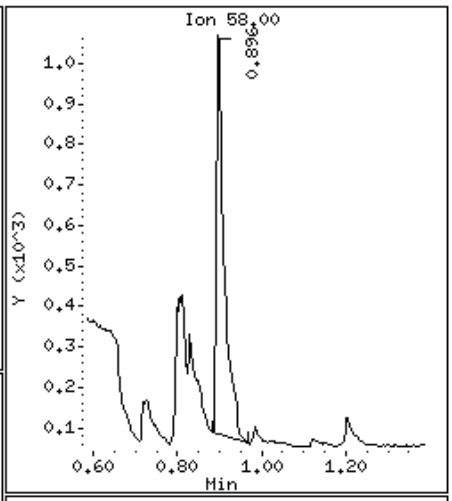
Column phase: RTX-5SIL MS

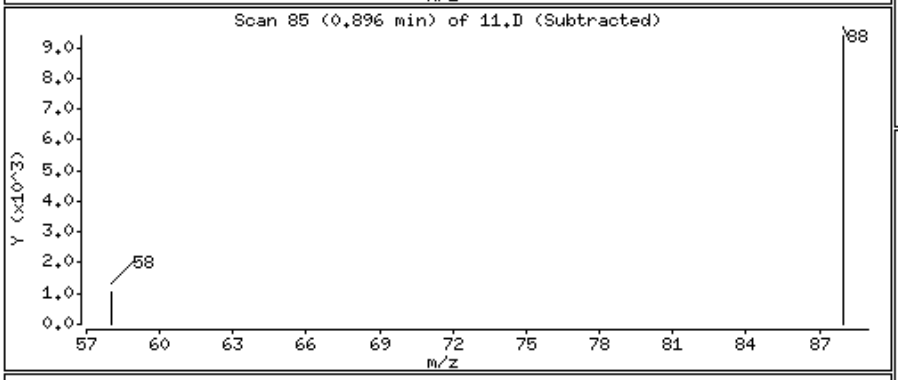
Column diameter: 0.28

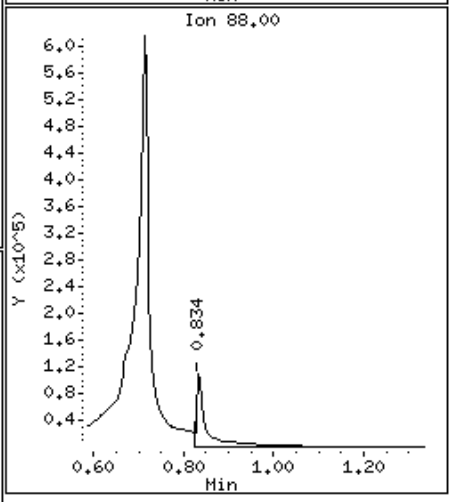
1 1,4-Dioxane

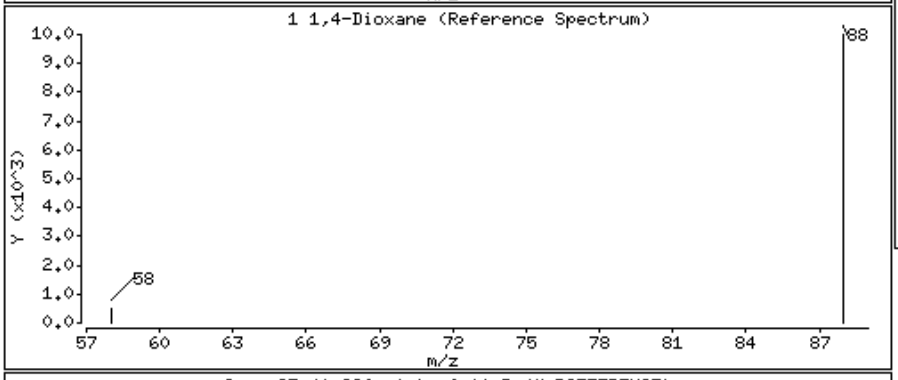
Concentration: 1.182 ug/L

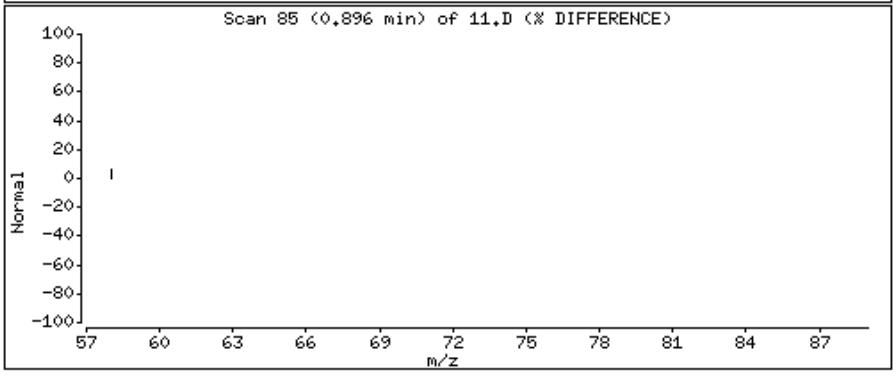










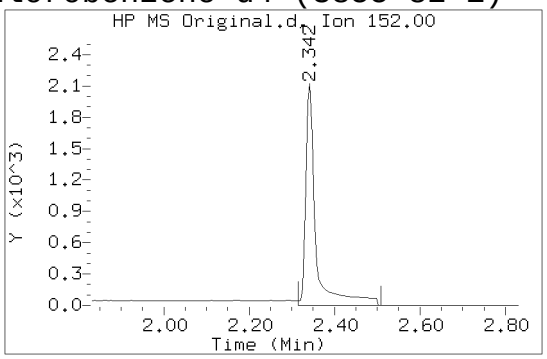


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\11.D
Inj Date : 30-MAR-2023 15:51
InstruID : SV6.i
LabSampID : HS23031294-01

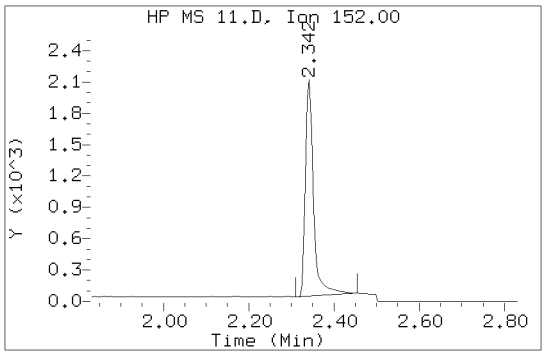
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

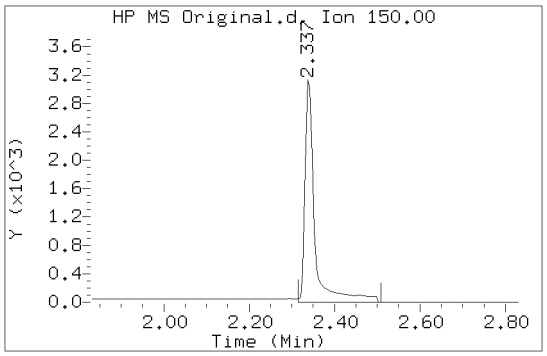
BEFORE
MASS
152
AREA
3480
HEIGHT
2122
30-Mar-2023
16:06
ALSHS
Server



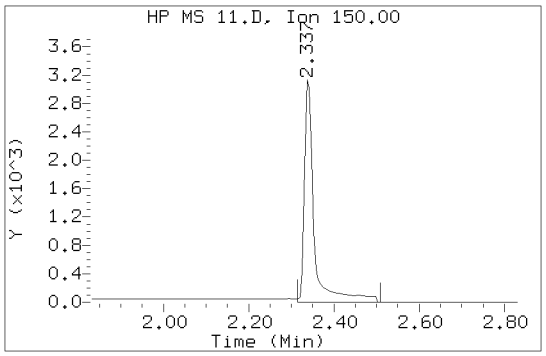
AFTER
MASS
152
AREA
2756
HEIGHT
2069
30-Mar-2023
16:28



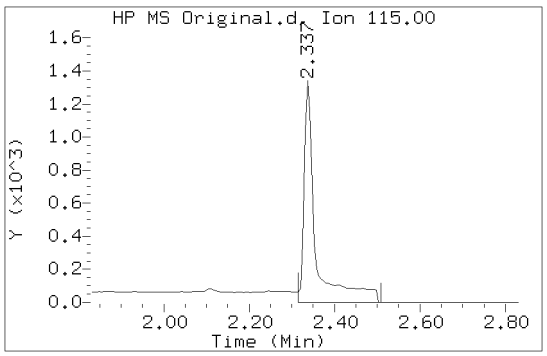
BEFORE
MASS
150
AREA
4978
HEIGHT
3132
30-Mar-2023
16:06
ALSHS
Server



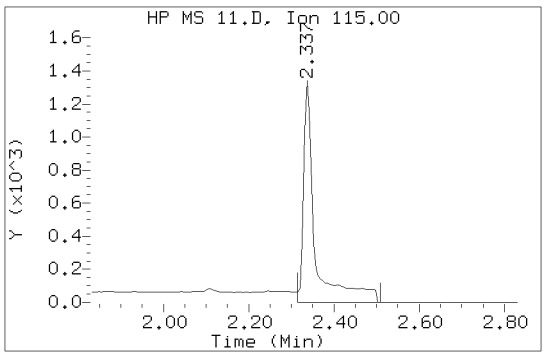
AFTER
MASS
150
AREA
4978
HEIGHT
3132
30-Mar-2023
16:28



BEFORE
MASS
115
AREA
2520
HEIGHT
1341
30-Mar-2023
16:06
ALSHS
Server



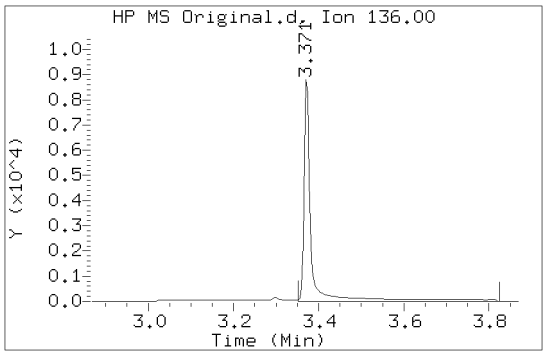
AFTER
MASS
115
AREA
2520
HEIGHT
1341
30-Mar-2023
16:28



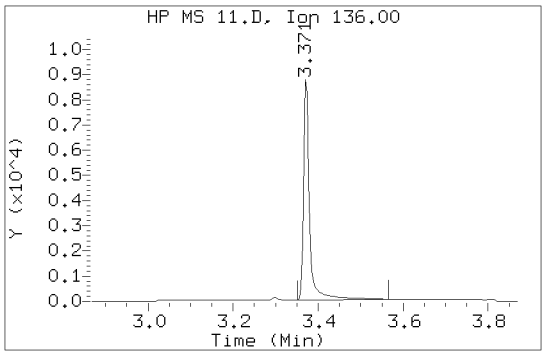
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10661
HEIGHT
8799
30-Mar-2023
16:06
ALSHS
Server



AFTER
MASS
136
AREA
8637
HEIGHT
8739
30-Mar-2023
16:28



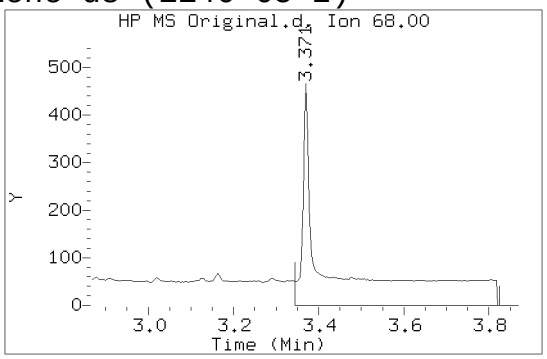
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\11.D
Inj Date : 30-MAR-2023 15:51
InstruID : SV6.i
LabSampID : HS23031294-01

Naphthalene-d8 (1146-65-2)

Reason Code:

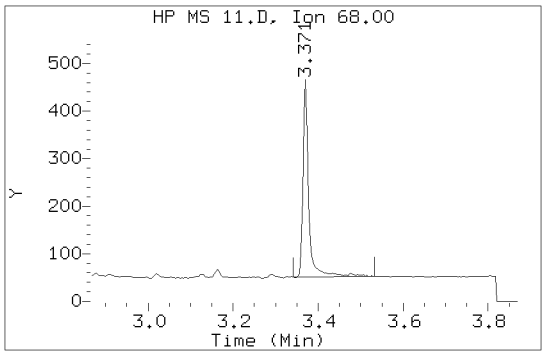
BEFORE

MASS
68
AREA
1885
HEIGHT
466
30-Mar-2023
16:06
ALSHS
Server



AFTER

MASS
68
AREA
400
HEIGHT
414
30-Mar-2023
16:28

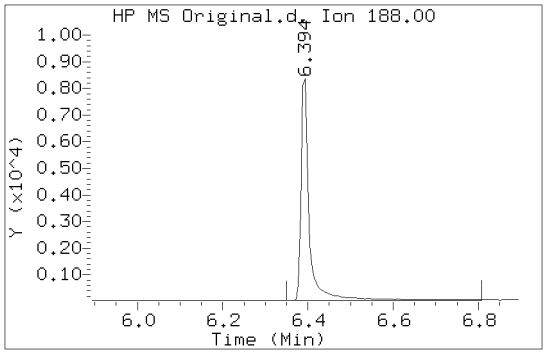


Phenanthrene-d10 (1517-22-2)

Reason Code:

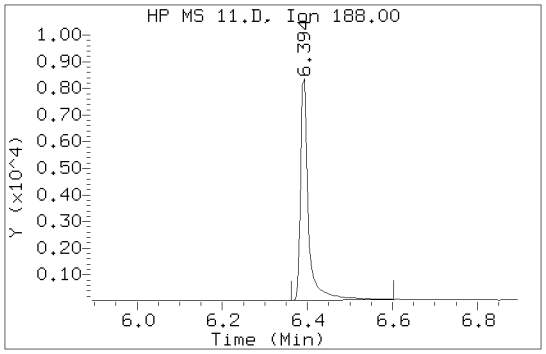
BEFORE

MASS
188
AREA
11139
HEIGHT
8316
30-Mar-2023
16:06
ALSHS
Server



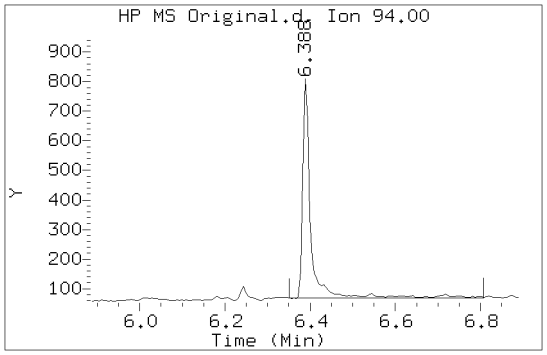
AFTER

MASS
188
AREA
10611
HEIGHT
8310
30-Mar-2023
16:28



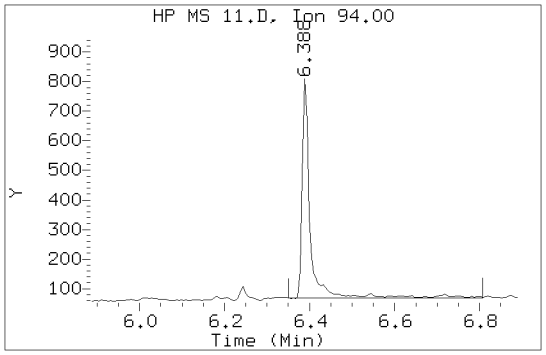
BEFORE

MASS
94
AREA
977
HEIGHT
740
30-Mar-2023
16:06
ALSHS
Server



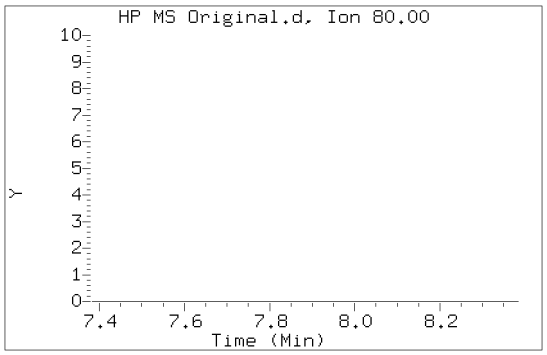
AFTER

MASS
94
AREA
977
HEIGHT
740
30-Mar-2023
16:28



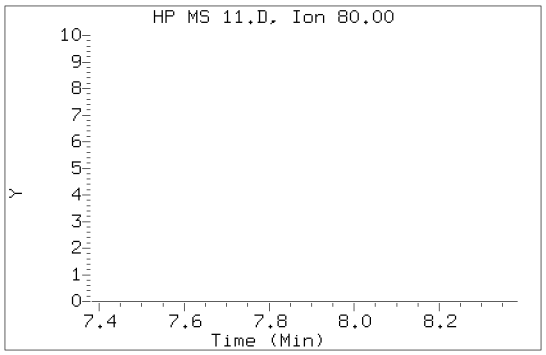
BEFORE

MASS
80
AREA
0
HEIGHT
0
30-Mar-2023
16:06
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
30-Mar-2023
16:28



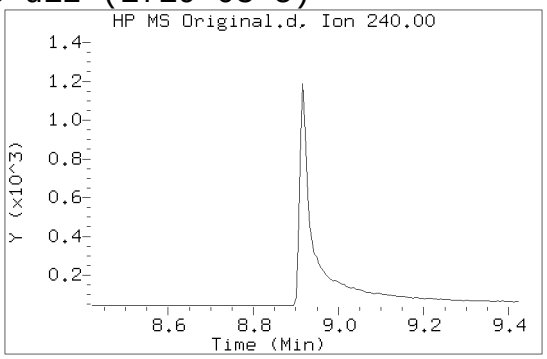
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\11.D
Inj Date : 30-MAR-2023 15:51
InstruID : SV6.i
LabSampID : HS23031294-01

Chrysene-d12 (1719-03-5)

Reason Code:

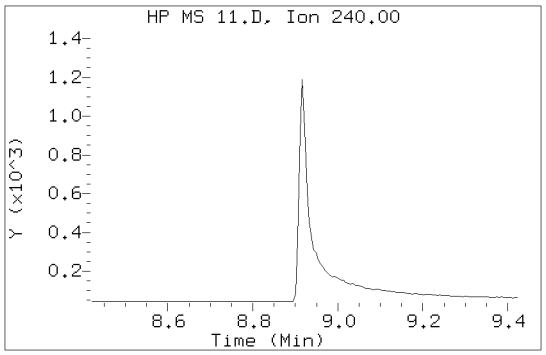
BEFORE

MASS
240
AREA
0
HEIGHT
0
30-Mar-2023
16:06
ALSHS
Server



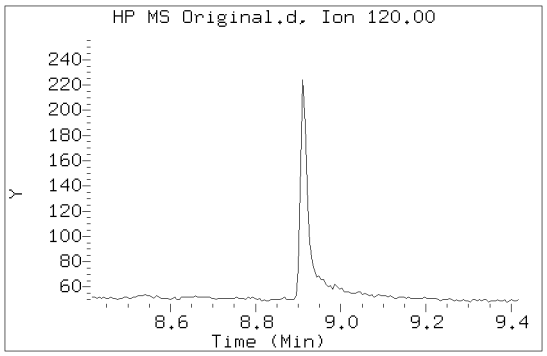
AFTER

MASS
240
AREA
3356
HEIGHT
1145
30-Mar-2023
16:28



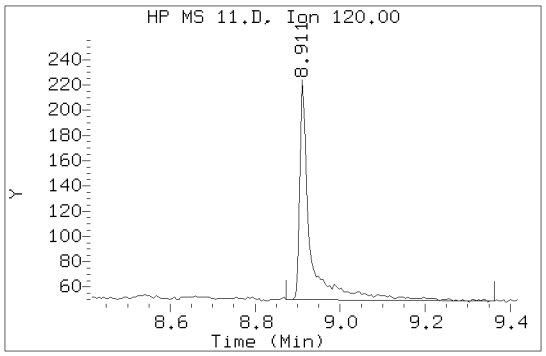
BEFORE

MASS
120
AREA
0
HEIGHT
0
30-Mar-2023
16:06
ALSHS
Server



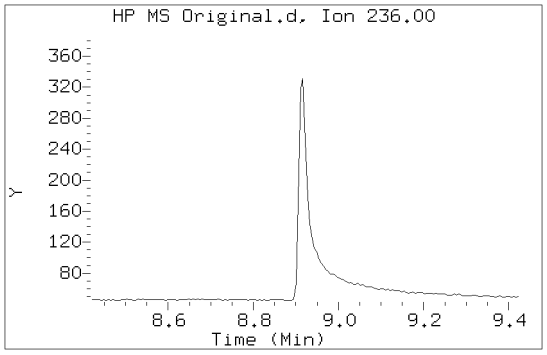
AFTER

MASS
120
AREA
295
HEIGHT
174
30-Mar-2023
16:28



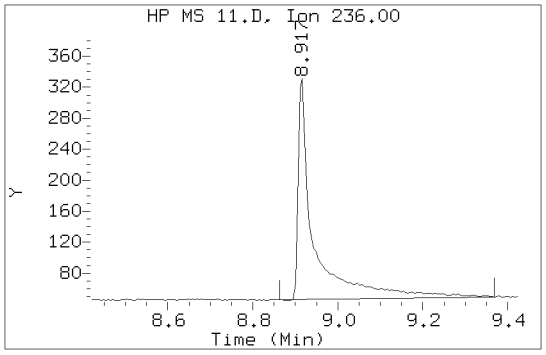
BEFORE

MASS
236
AREA
0
HEIGHT
0
30-Mar-2023
16:06
ALSHS
Server



AFTER

MASS
236
AREA
739
HEIGHT
284
30-Mar-2023
16:28

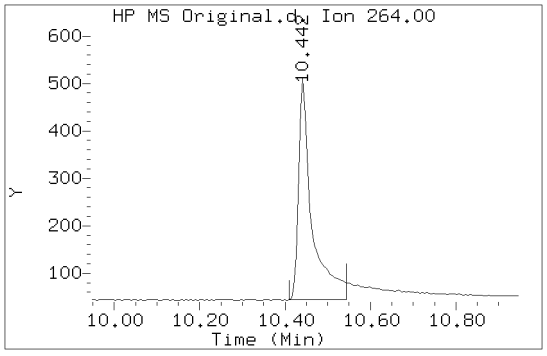


Perylene-d12 (1520-96-3)

Reason Code:

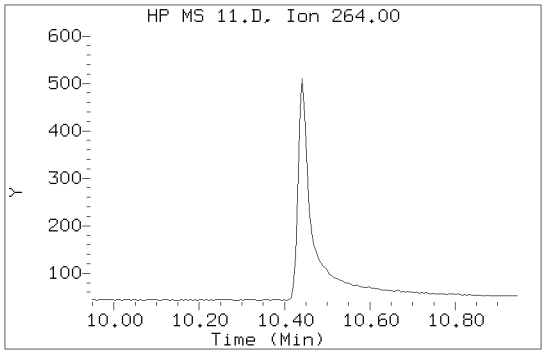
BEFORE

MASS
264
AREA
1005
HEIGHT
465
30-Mar-2023
16:06
ALSHS
Server



AFTER

MASS
264
AREA
1531
HEIGHT
467
30-Mar-2023
16:28

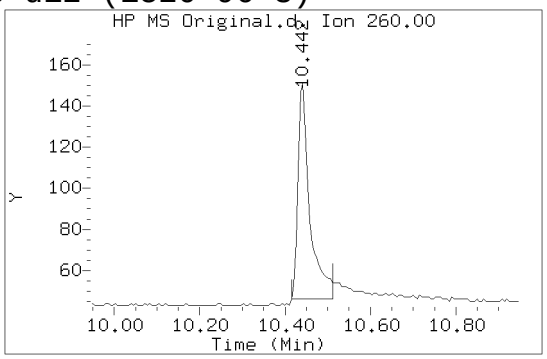


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\11.D
Inj Date : 30-MAR-2023 15:51
InstruID : SV6.i
LabSampID : HS23031294-01

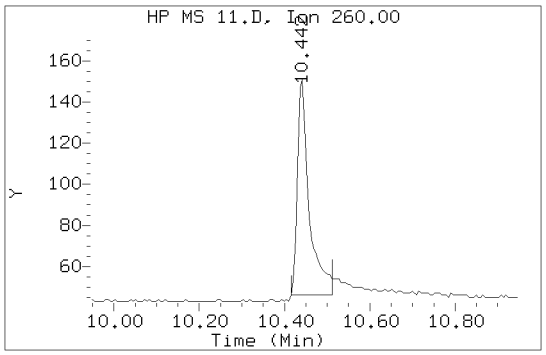
Perylene-d12 (1520-96-3)

Reason Code:

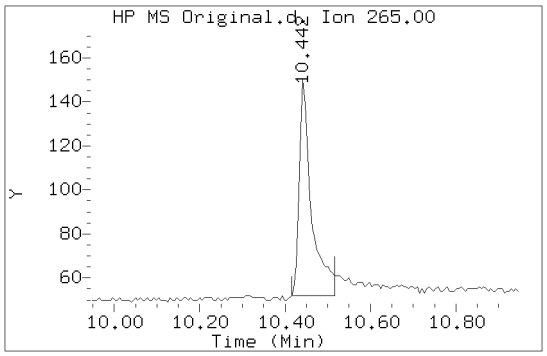
BEFORE
MASS
260
AREA
203
HEIGHT
105
30-Mar-2023
16:06
ALSHS
Server



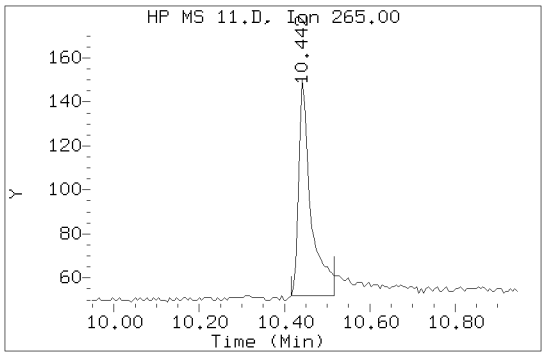
AFTER
MASS
260
AREA
203
HEIGHT
105
30-Mar-2023
16:28



BEFORE
MASS
265
AREA
195
HEIGHT
98
30-Mar-2023
16:06
ALSHS
Server



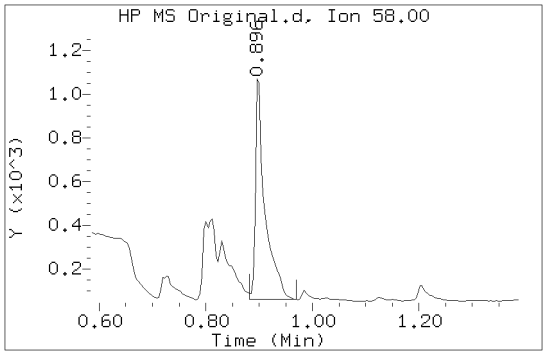
AFTER
MASS
265
AREA
195
HEIGHT
98
30-Mar-2023
16:28



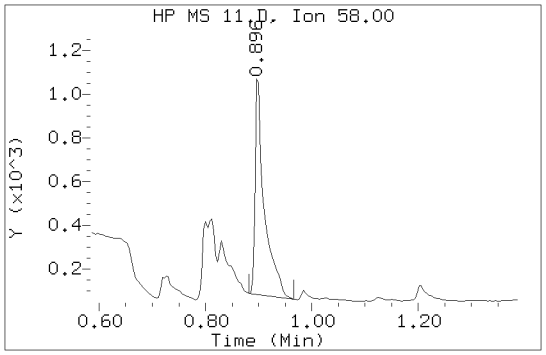
1,4-Dioxane ()

Reason Code:

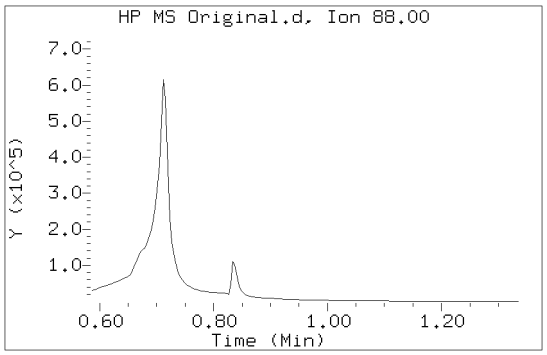
BEFORE
MASS
58
AREA
1265
HEIGHT
1008
30-Mar-2023
16:06
ALSHS
Server



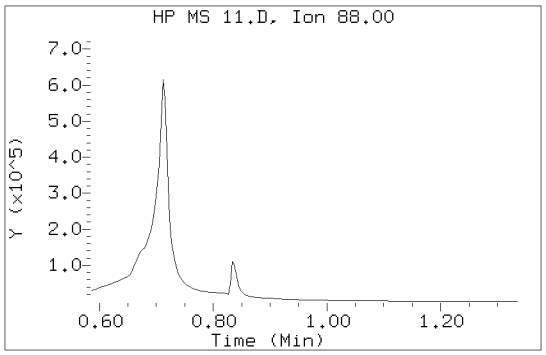
AFTER
MASS
58
AREA
1188
HEIGHT
985
30-Mar-2023
16:28



BEFORE
MASS
88
AREA
179010
HEIGHT
110158
30-Mar-2023
16:06
ALSHS
Server



AFTER
MASS
88
AREA
179010
HEIGHT
110158
30-Mar-2023
16:28

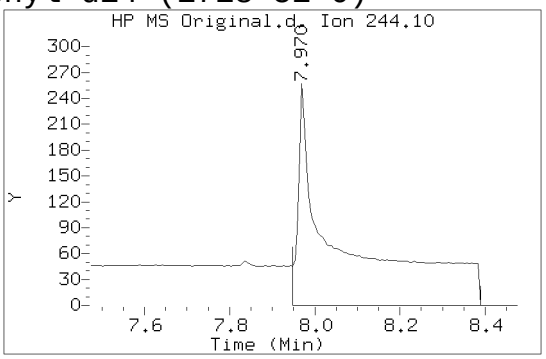


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\11.D
Inj Date : 30-MAR-2023 15:51
InstruID : SV6.i
LabSampID : HS23031294-01

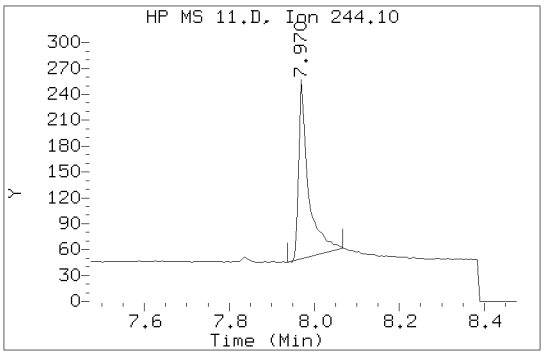
4-Terphenyl-d14 (1718-51-0)

Reason Code:

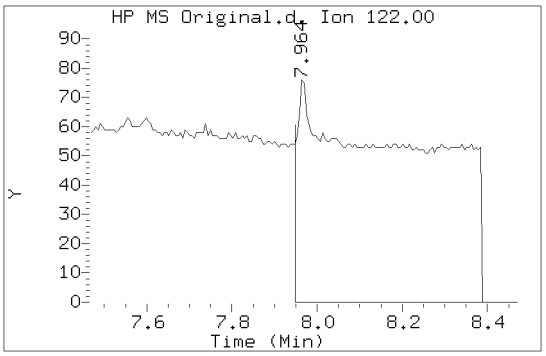
BEFORE
MASS
244.1
AREA
1711
HEIGHT
257
30-Mar-2023
16:06
ALSHS
Server



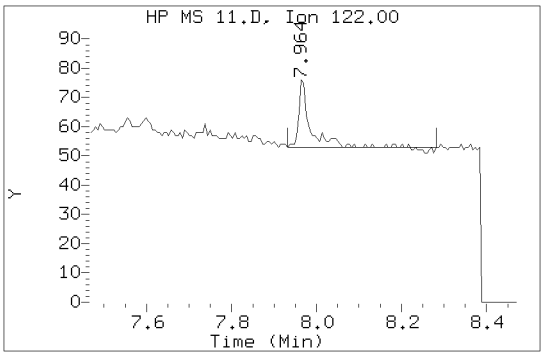
AFTER
MASS
244.1
AREA
326
HEIGHT
207
30-Mar-2023
16:28



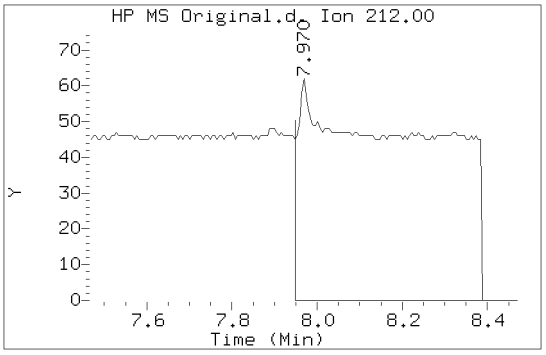
BEFORE
MASS
122
AREA
1441
HEIGHT
76
30-Mar-2023
16:06
ALSHS
Server



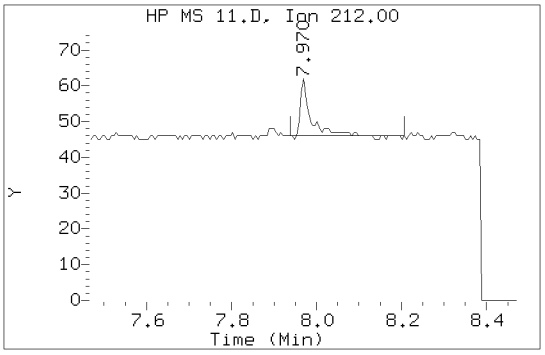
AFTER
MASS
122
AREA
39
HEIGHT
23
30-Mar-2023
16:28



BEFORE
MASS
212
AREA
1240
HEIGHT
62
30-Mar-2023
16:06
ALSHS
Server



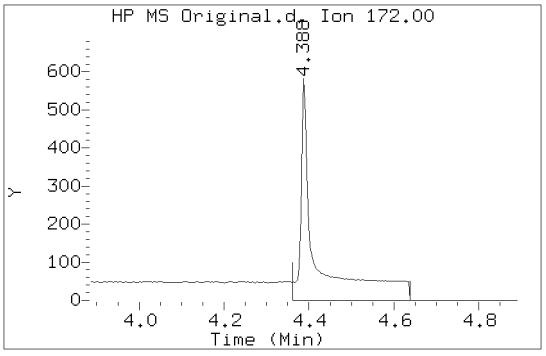
AFTER
MASS
212
AREA
24
HEIGHT
16
30-Mar-2023
16:28



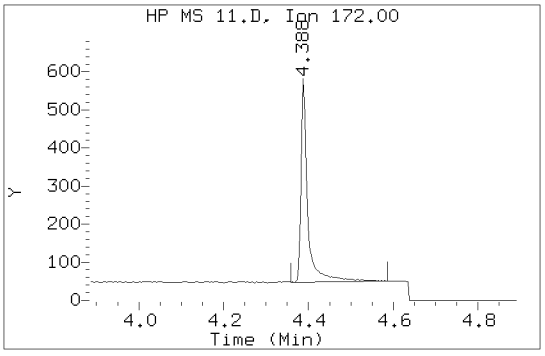
2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
1408
HEIGHT
582
30-Mar-2023
16:06
ALSHS
Server



AFTER
MASS
172
AREA
592
HEIGHT
534
30-Mar-2023
16:28



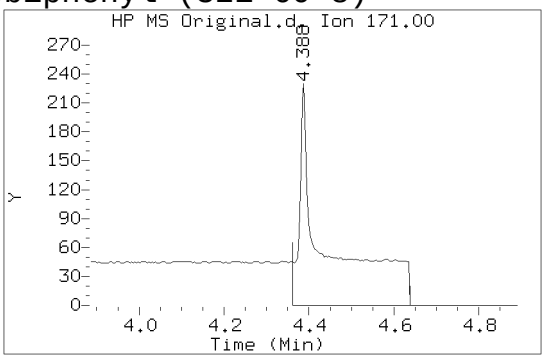
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\11.D
Inj Date : 30-MAR-2023 15:51
InstruID : SV6.i
LabSampID : HS23031294-01

2-Fluorobiphenyl (321-60-8)

Reason Code:

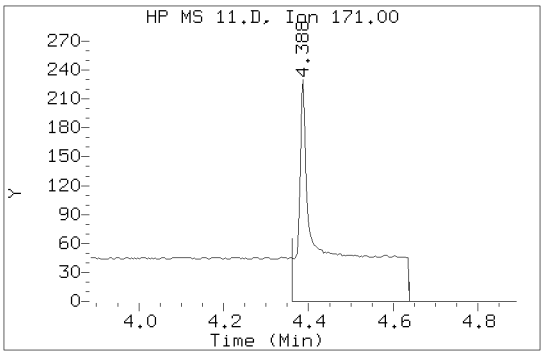
BEFORE

MASS
171
AREA
961
HEIGHT
230
30-Mar-2023
16:06
ALSHS
Server



AFTER

MASS
171
AREA
961
HEIGHT
230
30-Mar-2023
16:28



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)	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.

01185670

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

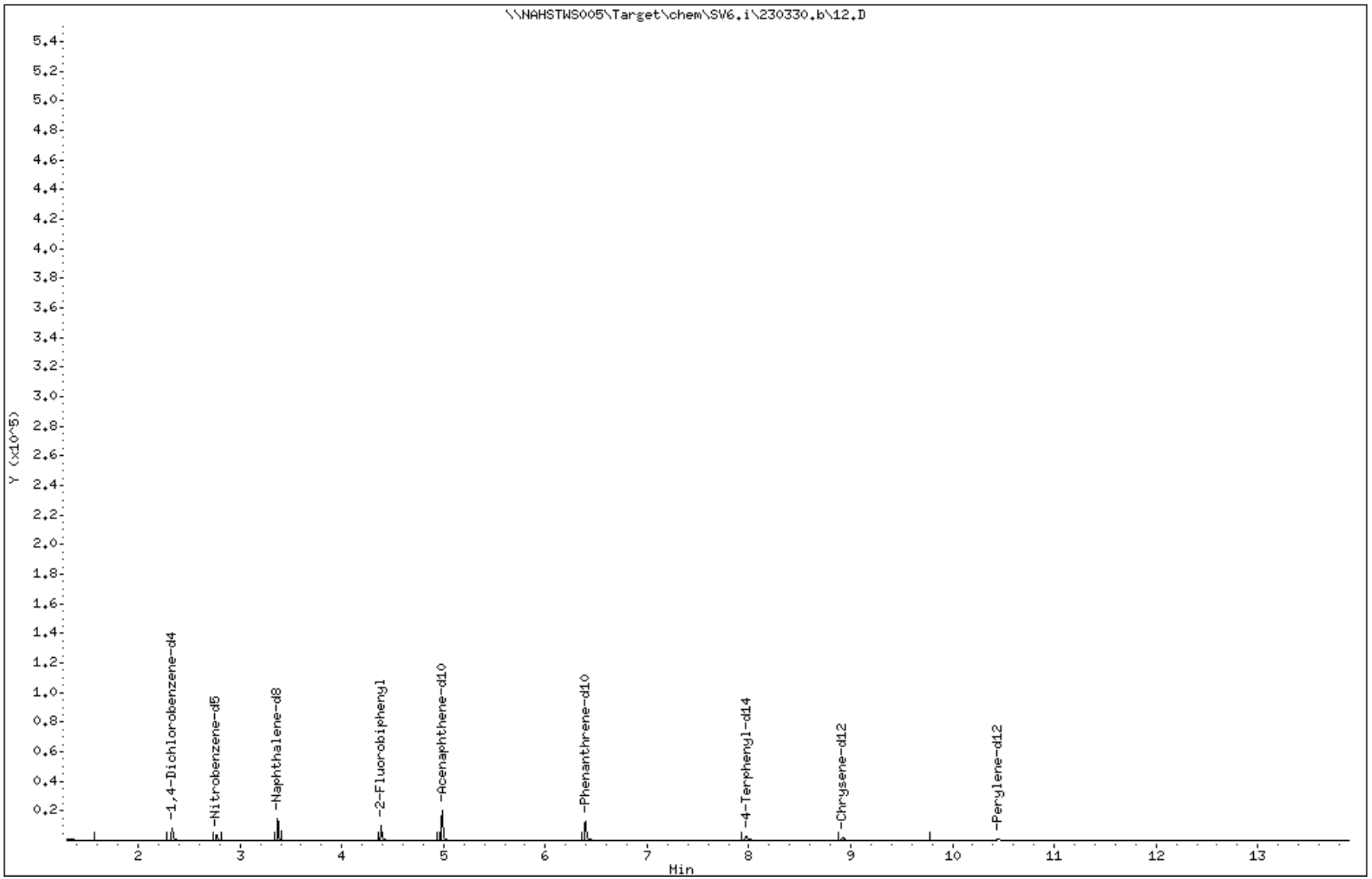
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



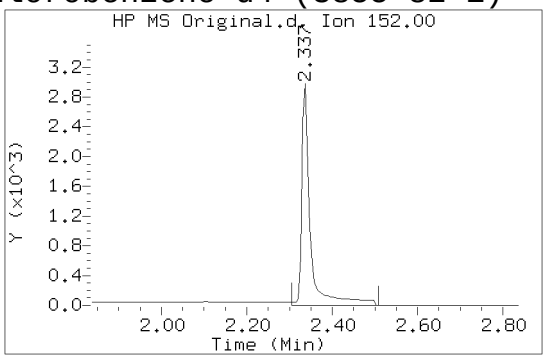
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D
Inj Date : 30-MAR-2023 16:22
InstruID : SV6.i
LabSampID : 14DX-CCV_END

1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

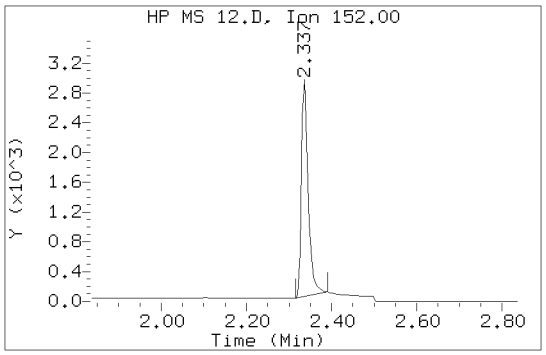
BEFORE

MASS
152
AREA
4117
HEIGHT
2980
30-Mar-2023
16:36
ALSHS
Server



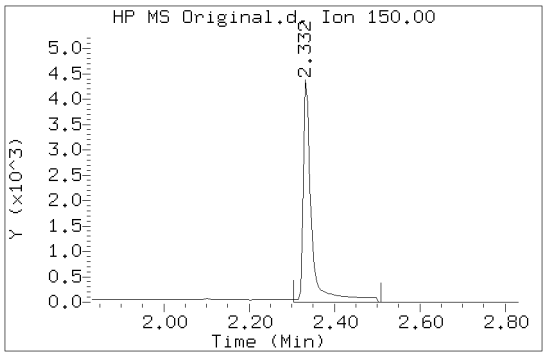
AFTER

MASS
152
AREA
3131
HEIGHT
2911
04-Apr-2023
12:25
ALSHS
Ser



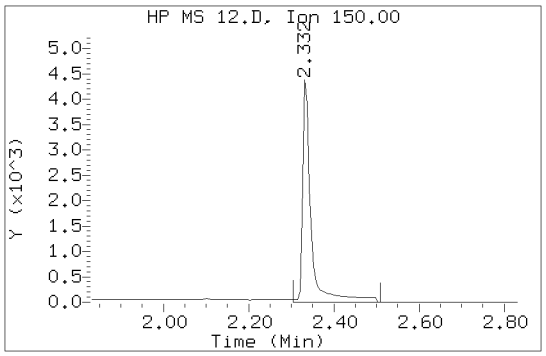
BEFORE

MASS
150
AREA
5905
HEIGHT
4379
30-Mar-2023
16:36
ALSHS
Server



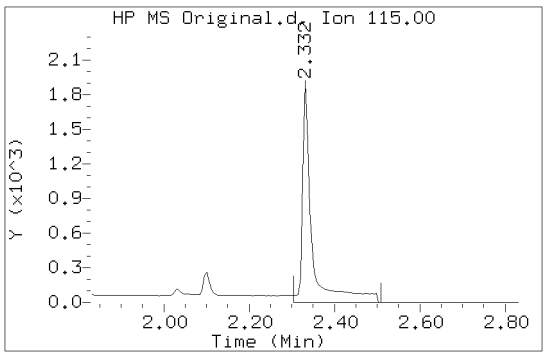
AFTER

MASS
150
AREA
5905
HEIGHT
4379
04-Apr-2023
12:25
ALSHS
Ser



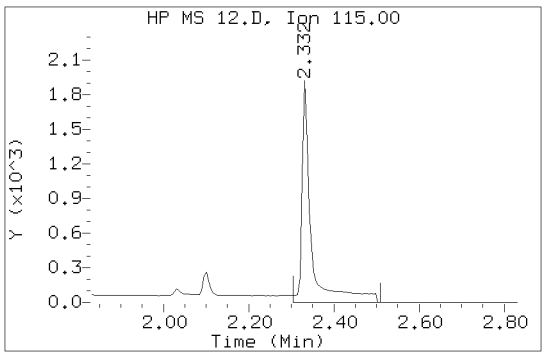
BEFORE

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

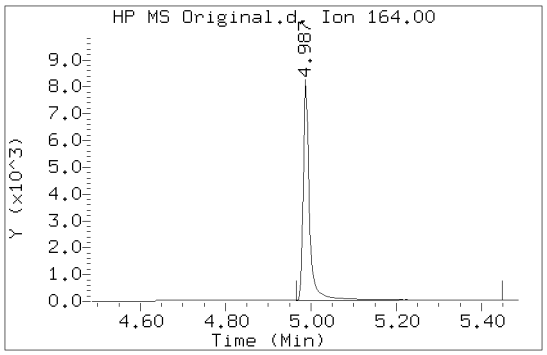


Acenaphthene-d10 (15067-26-2)

Reason Code:

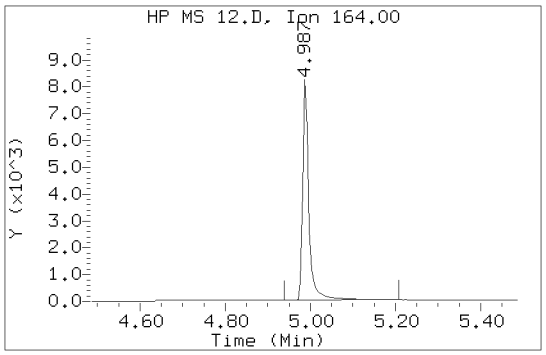
BEFORE

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



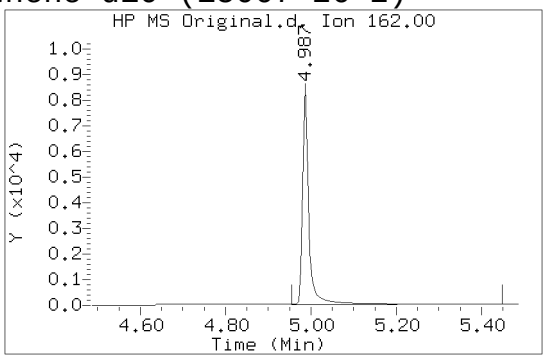
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D
Inj Date : 30-MAR-2023 16:22
InstruID : SV6.i
LabSampID : 14DX-CCV_END

Acenaphthene-d10 (15067-26-2)

Reason Code:

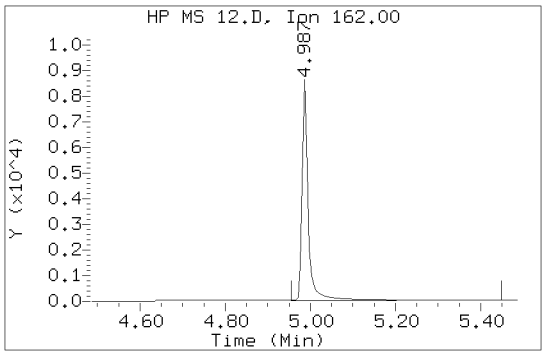
BEFORE

MASS
162
AREA
9141
HEIGHT
8627
30-Mar-2023
16:36
ALSHS
Server



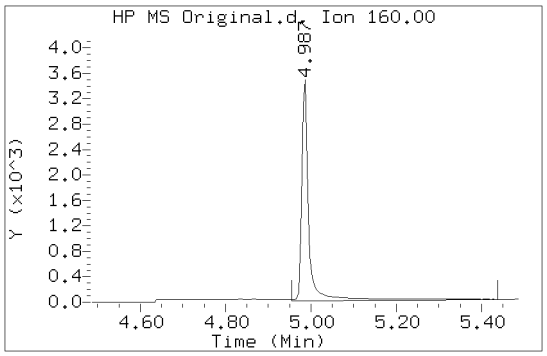
AFTER

MASS
162
AREA
9141
HEIGHT
8627
04-Apr-2023
12:25
ALSHS
Ser



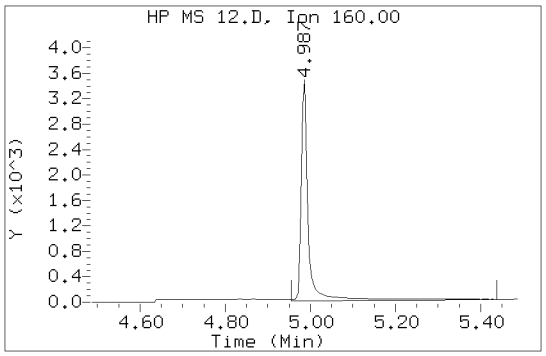
BEFORE

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

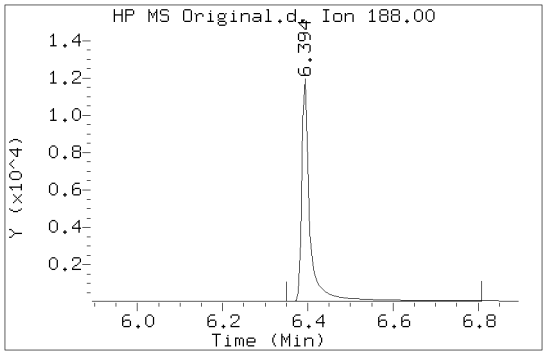


Phenanthrene-d10 (1517-22-2)

Reason Code:

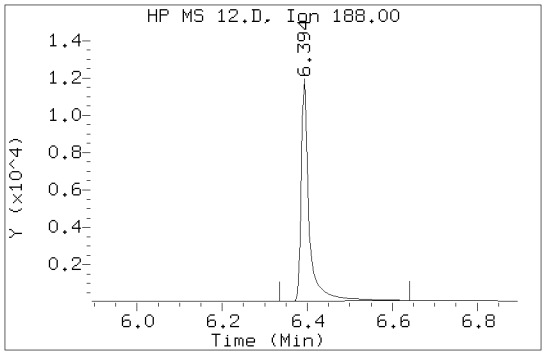
BEFORE

MASS
188
AREA
15930
HEIGHT
11908
30-Mar-2023
16:36
ALSHS
Server



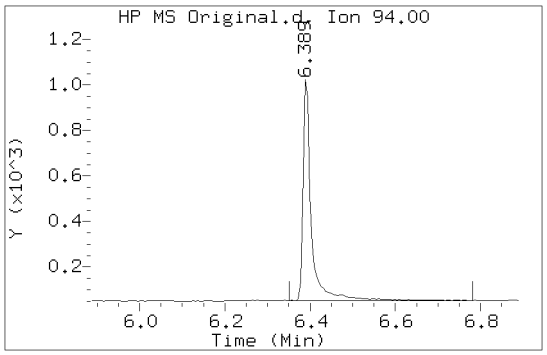
AFTER

MASS
188
AREA
15258
HEIGHT
11899
04-Apr-2023
12:25
ALSHS
Ser



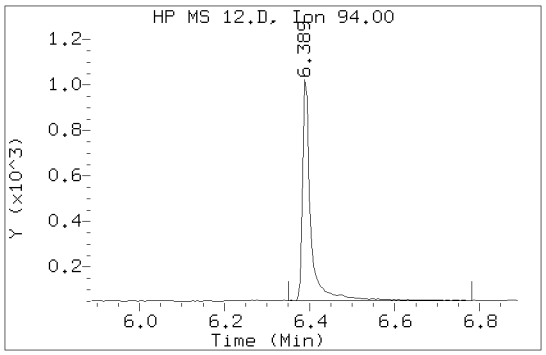
BEFORE

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

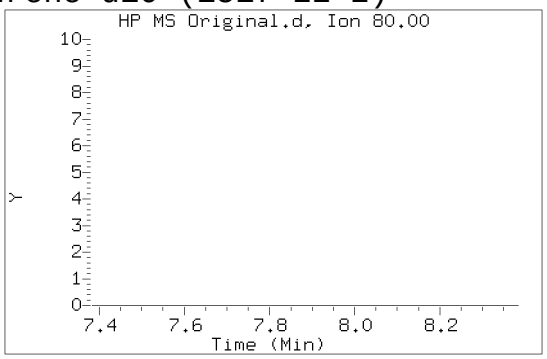


Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D
Inj Date : 30-MAR-2023 16:22
InstruID : SV6.i
LabSampID : 14DX-CCV_END

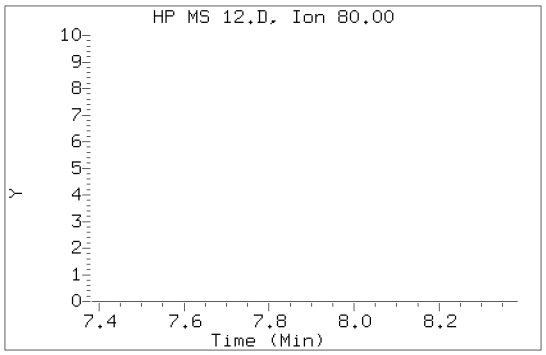
Phenanthrene-d10 (1517-22-2)

Reason Code:

BEFORE
MASS
80
AREA
0
HEIGHT
0
30-Mar-2023
16:36
ALSHS
Server



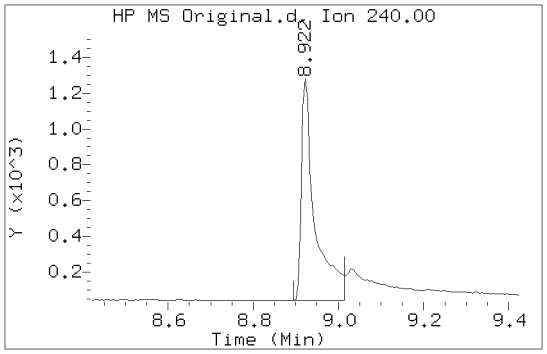
AFTER
MASS
80
AREA
0
HEIGHT
0
04-Apr-2023
12:25
ALSHS
Ser



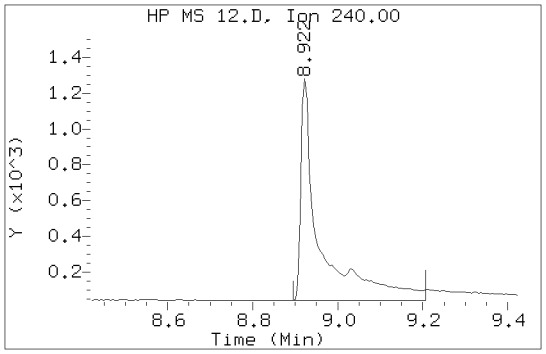
Chrysene-d12 (1719-03-5)

Reason Code:

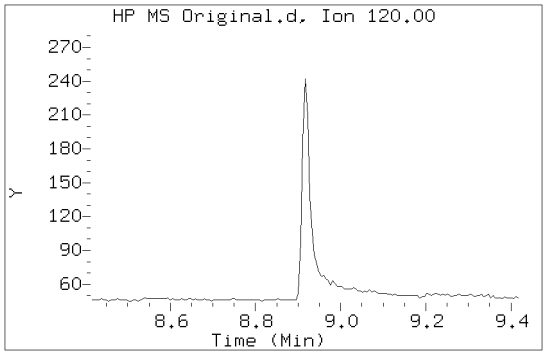
BEFORE
MASS
240
AREA
2718
HEIGHT
1236
30-Mar-2023
16:36
ALSHS
Server



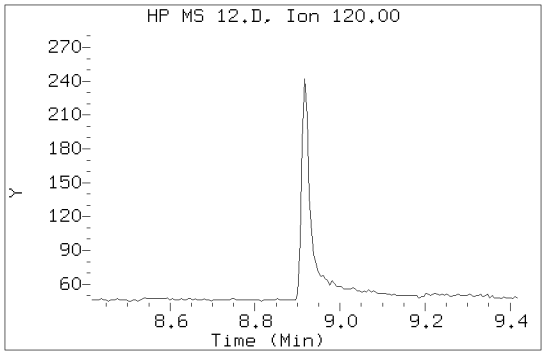
AFTER
MASS
240
AREA
3778
HEIGHT
1235
04-Apr-2023
12:25
ALSHS
Ser



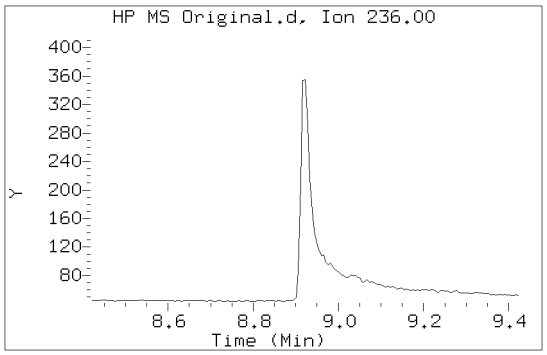
BEFORE
MASS
120
AREA
0
HEIGHT
0
30-Mar-2023
16:36
ALSHS
Server



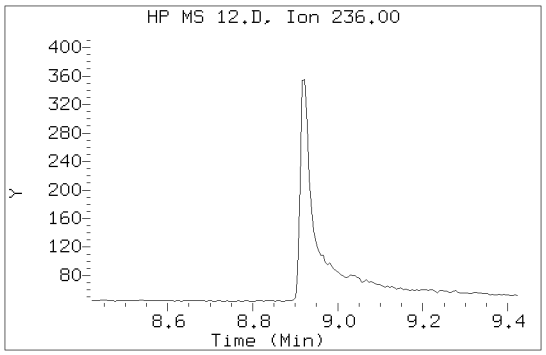
AFTER
MASS
120
AREA
0
HEIGHT
0
04-Apr-2023
12:25
ALSHS
Ser



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



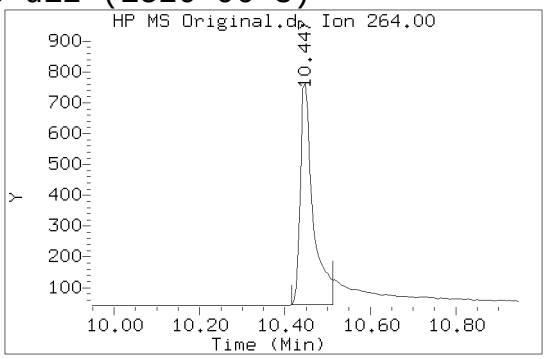
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D
Inj Date : 30-MAR-2023 16:22
InstruID : SV6.i
LabSampID : 14DX-CCV_END

Perylene-d12 (1520-96-3)

Reason Code:

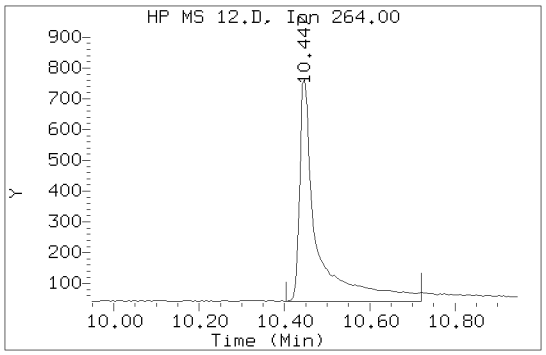
BEFORE

MASS
264
AREA
1482
HEIGHT
716
30-Mar-2023
16:36
ALSHS
Server



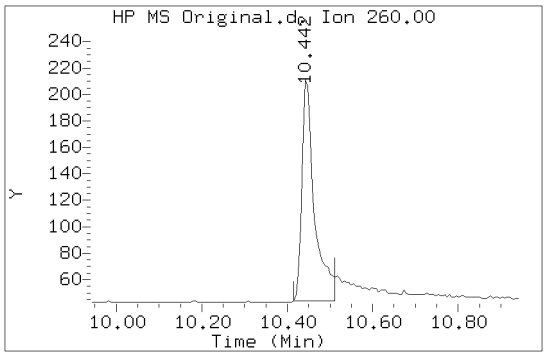
AFTER

MASS
264
AREA
2031
HEIGHT
719
04-Apr-2023
12:25
ALSHS
Ser



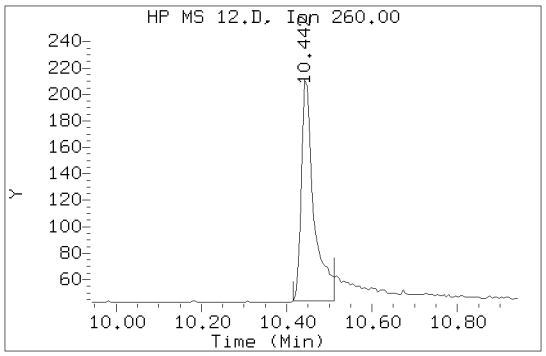
BEFORE

MASS
260
AREA
342
HEIGHT
167
30-Mar-2023
16:36
ALSHS
Server



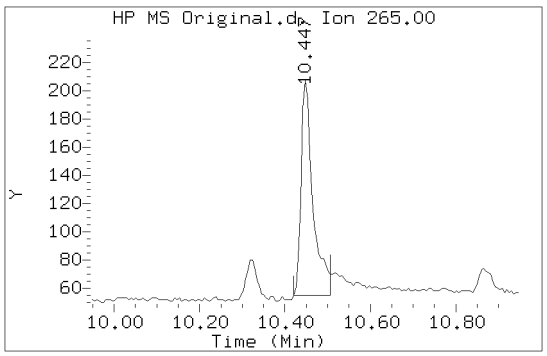
AFTER

MASS
260
AREA
342
HEIGHT
167
04-Apr-2023
12:25
ALSHS
Ser



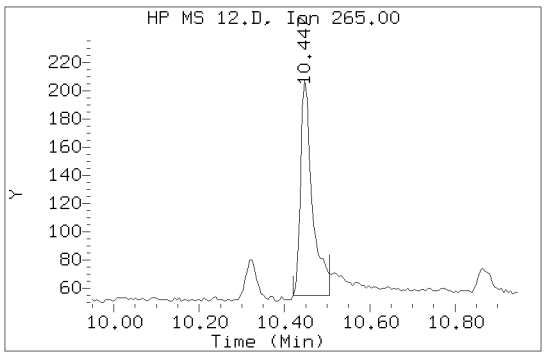
BEFORE

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

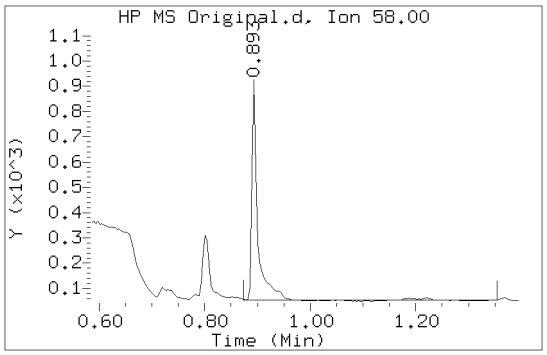


1,4-Dioxane ()

Reason Code:

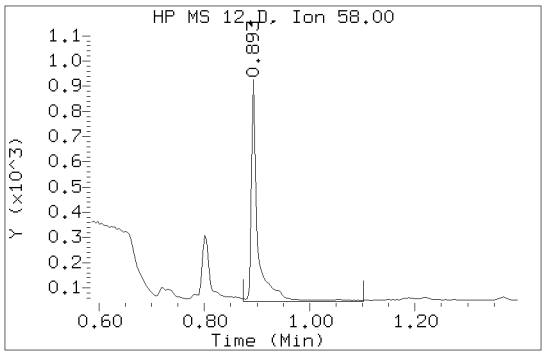
BEFORE

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



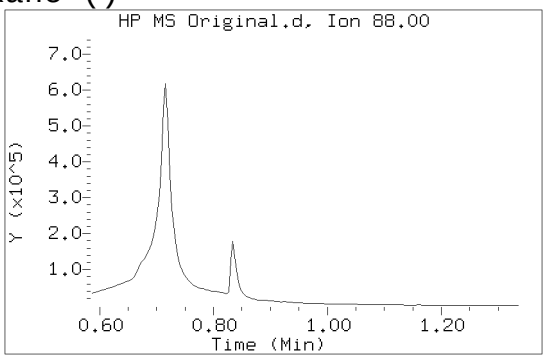
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D
Inj Date : 30-MAR-2023 16:22
InstruID : SV6.i
LabSampID : 14DX-CCV_END

1,4-Dioxane ()

Reason Code:

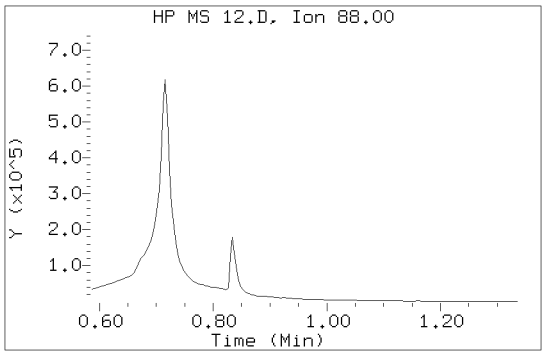
BEFORE

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

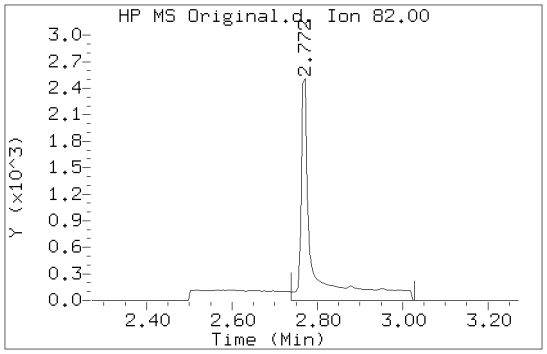


Nitrobenzene-d5 (4165-60-0)

Reason Code:

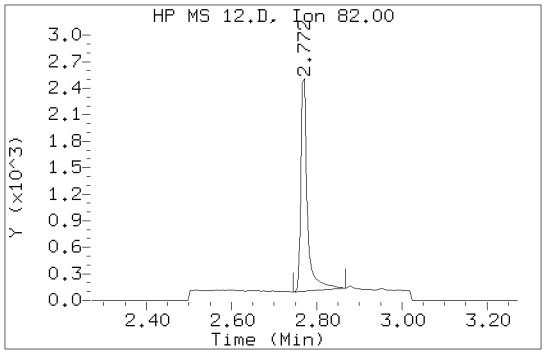
BEFORE

MASS
82
AREA
4628
HEIGHT
2508
30-Mar-2023
16:36
ALSHS
Server



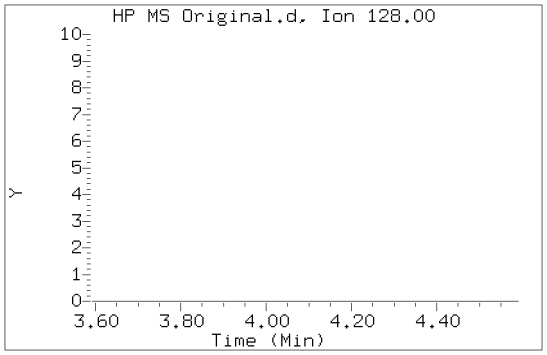
AFTER

MASS
82
AREA
2607
HEIGHT
2402
04-Apr-2023
12:25
ALSHS
Ser



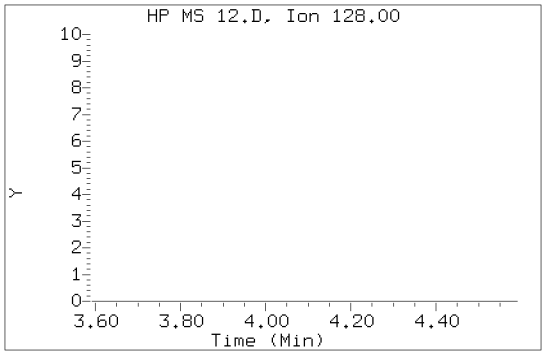
BEFORE

MASS
128
AREA
0
HEIGHT
0
30-Mar-2023
16:36
ALSHS
Server



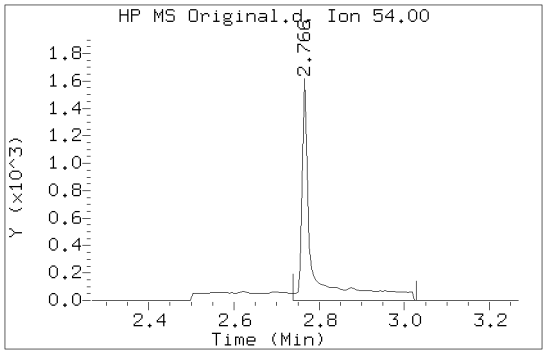
AFTER

MASS
128
AREA
0
HEIGHT
0
04-Apr-2023
12:25
ALSHS
Ser



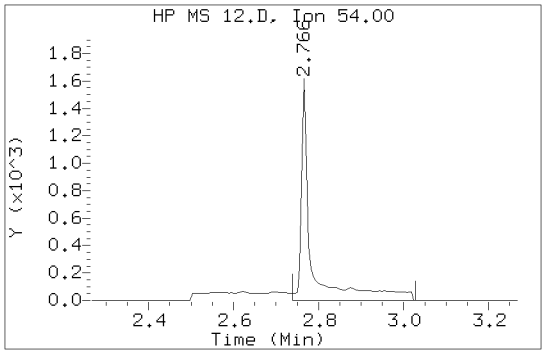
BEFORE

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



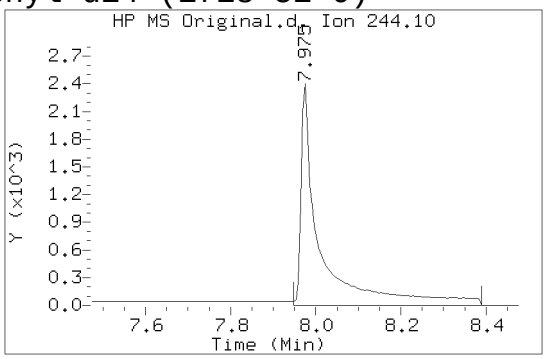
Data File : \\NAHSTWS005\Target\chem\SV6.i\230330.b\12.D
Inj Date : 30-MAR-2023 16:22
InstruID : SV6.i
LabSampID : 14DX-CCV_END

4-Terphenyl-d14 (1718-51-0)

Reason Code:

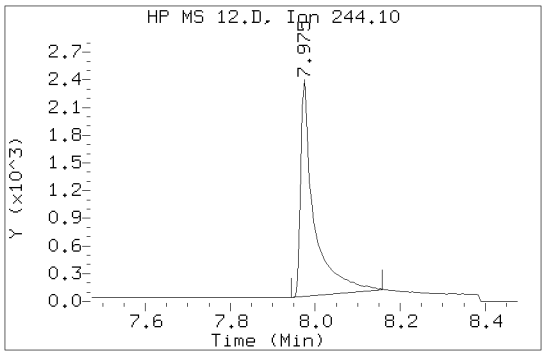
BEFORE

MASS
244.1
AREA
7457
HEIGHT
2401
30-Mar-2023
16:36
ALSHS
Server



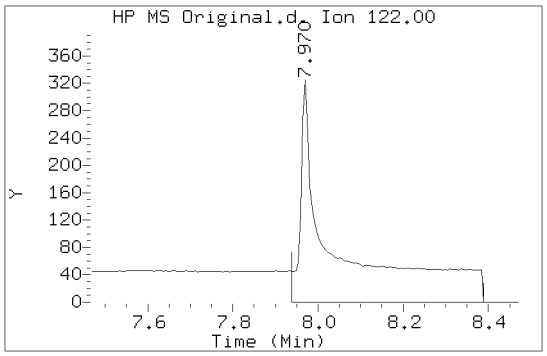
AFTER

MASS
244.1
AREA
5117
HEIGHT
2346
04-Apr-2023
12:25
ALSHS
Ser



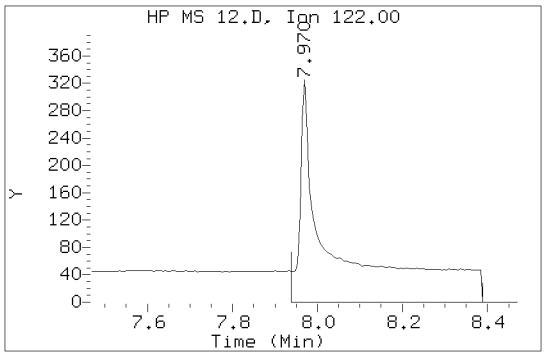
BEFORE

MASS
122
AREA
1800
HEIGHT
325
30-Mar-2023
16:36
ALSHS
Server



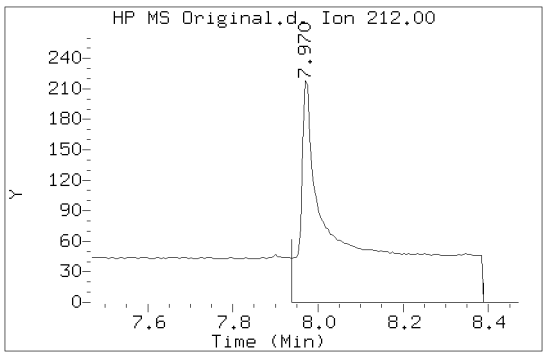
AFTER

MASS
122
AREA
1800
HEIGHT
325
04-Apr-2023
12:25
ALSHS
Ser



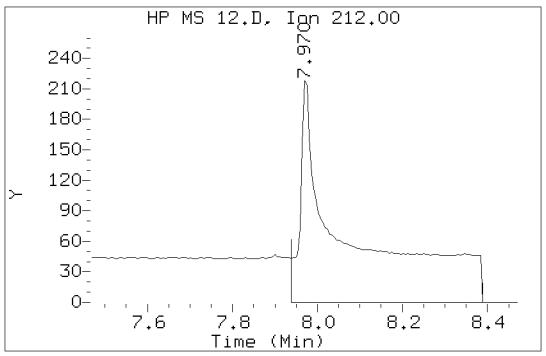
BEFORE

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

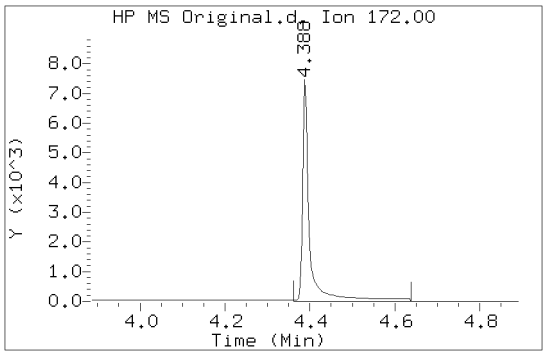


2-Fluorobiphenyl (321-60-8)

Reason Code:

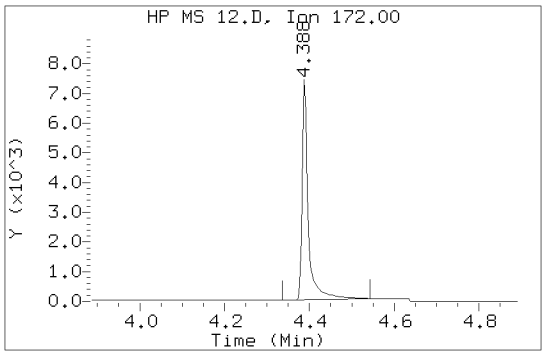
BEFORE

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



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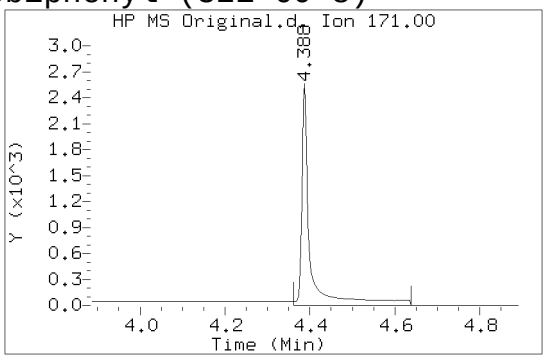
Inj Date : 30-MAR-2023 16:22
InstruID : SV6.i
LabSampID : 14DX-CCV_END

2-Fluorobiphenyl (321-60-8)

Reason Code:

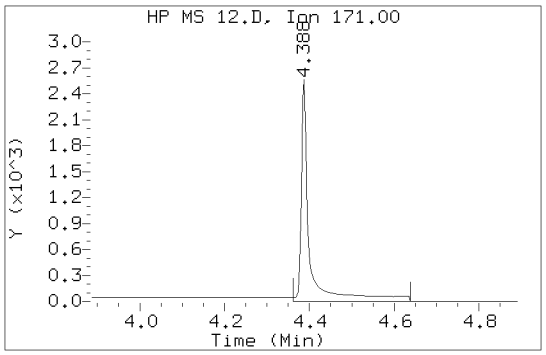
BEFORE

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



HS23031294 - ME - HG_W_DODICP_W_DOD

ALS WO# HS23031294

ALS Houston, US Date: 03-Apr-23

Form 11 - INTERNAL STANDARD ASSOCIATION

Client: Bhate Environmental Associates, Inc. Instrument:ICPMS06
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

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 Influent Samples
WorkOrder: HS23031294
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-SP140_032123	1	29-Mar-2023 13:05	_7202358	HG
LH18/24-SP140_032123MS	1	29-Mar-2023 13:07	_7202359	HG
LH18/24-SP140_032123MSD	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 Influent Samples
WorkOrder: HS23031294
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
ZZZZZZSD	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
ZZZZZZMS	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
ZZZZZZMSD	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
ZZZZZZPDS	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-SP140_032123	1	29-Mar-2023 11:32	041SMPL.d_7201902	AG AL AS BA BE CA CD CO CR FE K MG MN NA NI PB SB SE TL V ZN
ZZZZZZMSD	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
ZZZZZZSD	250	29-Mar-2023 11:47	047SMPL.d_7201964	NA
ZZZZZZPDS	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.
Project: Groundwater Treatment Plant Quarterly Influent Samples
WorkOrder: HS23031294

Run ID: HG04_431249
Instrument: HG04
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 Influent Samples
WorkOrder: HS23031294

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 Influent Samples
WorkOrder: HS23031294

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 Influent Samples
WorkOrder: HS23031294

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 Influent Samples
WorkOrder: HS23031294

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 Influent Samples
WorkOrder: HS23031294

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 Influent Samples
WorkOrder: HS23031294

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 Influent Samples
WorkOrder: HS23031294

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 Influent Samples
WorkOrder: HS23031294

Date Analyzed: 29-Mar-2023 13:08
Date Extracted: 29-Mar-2023 08:00
Units: ug/L

Matrix Spike: HS23031294-01MS
Client Sample ID: LH18/24-SP140_032123

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 Influent Samples
WorkOrder: HS23031294

Date Analyzed: 29-Mar-2023 11:28
Date Extracted: 27-Mar-2023 14:00
Units: ug/L

Matrix Spike: HS23031291-01MS
Client Sample ID:

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 Influent Samples
WorkOrder: HS23031294

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:

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 Influent Samples
WorkOrder: HS23031294

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 Influent Samples
WorkOrder: HS23031294

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 Influent Samples
WorkOrder: HS23031294

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:

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						

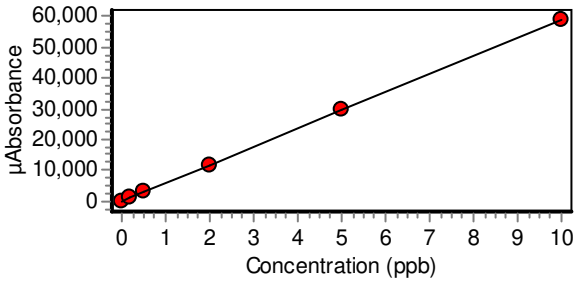
Calibration

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						

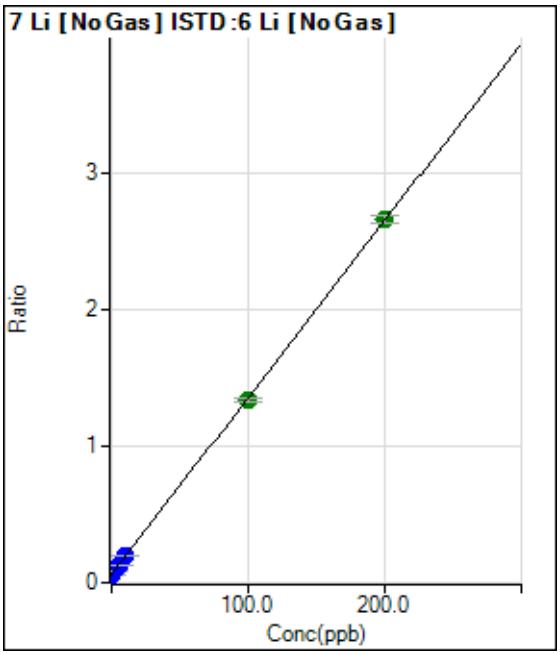
Sample Name					Type	Date/Time	Conc (ppb)	µAbs	%RSD	Residual	Flags
HS23031566-01					UNK	03/29/23 04:26:46 pm	-0.004	-21	64.03		
	Replicates	-19.1	-2.0	-21.0	-40.7						
HS23031566-01MS					UNK	03/29/23 04:35:39 pm	5.330	31312	0.25		
	Replicates	31415.9	31296.1	31309.7	31227.9						
HS23031566-01MSD					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

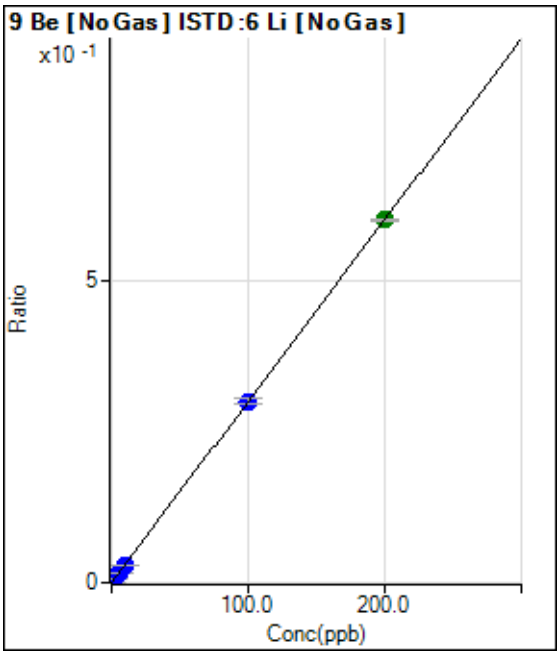
Calibration for 298_ICV.d



	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>

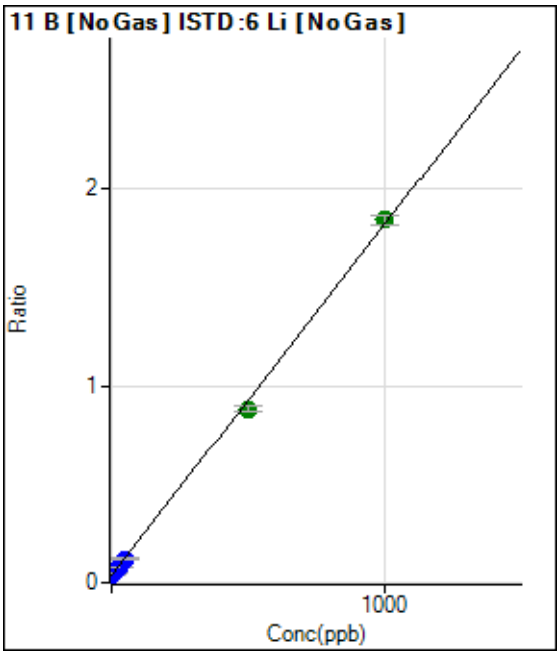


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	173.2
2	☐	2.000	1.926	9124.68	0.0058	P	2.9
3	☐	5.000	4.992	23417.95	0.0150	P	2.5
4	☐	10.000	9.792	46252.34	0.0295	P	1.6
5	☐	100.000	99.804	449518.72	0.3003	P	3.2
6	☐	200.000	200.110	866586.81	0.6022	A	0.7

y = 0.0030 * x + 4.2254E-006
R = 1.0000
DL = 0.007296
BEC = 0.001404

Weight: <None>
Min Conc: <None>

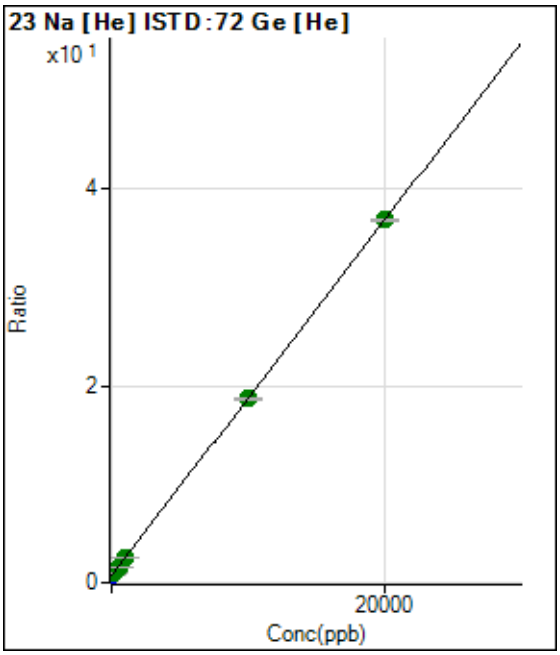
Calibration for 298_ICV.d



	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>

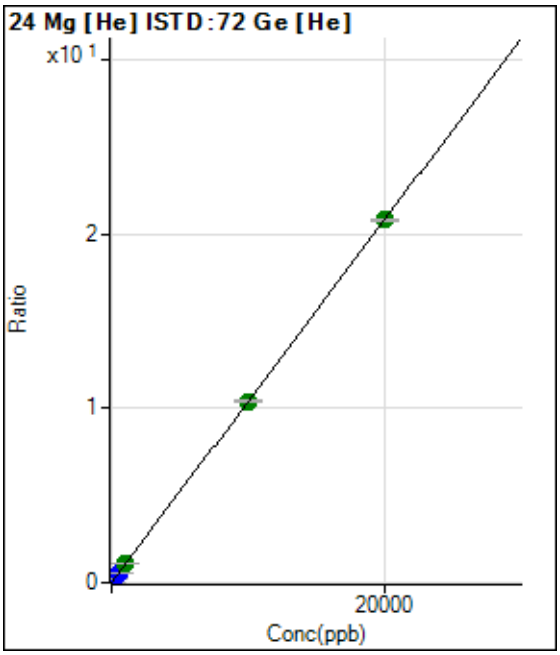


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	650308.96	0.7191	P	1.6
2	☐	200.000	190.279	954997.38	1.0624	A	1.8
3	☐	500.000	489.082	1454752.58	1.6014	A	0.8
4	☐	1000.000	997.051	2249301.68	2.5177	A	2.5
5	☐	10000.00	9950.581	16552948.50	18.6692	A	0.6
6	☐	20000.00	20025.22	31893578.69	36.8430	A	0.7

y = 0.0018 * x + 0.7191
R = 1.0000
DL = 18.76
BEC = 398.6

Weight: <None>
Min Conc: <None>

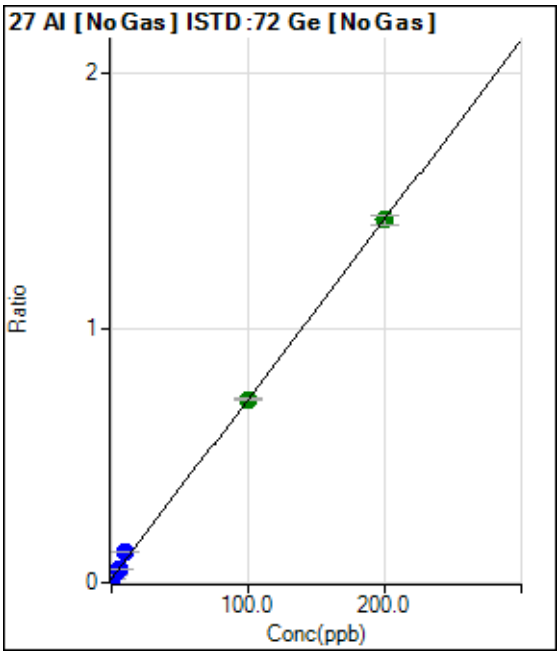
Calibration for 298_ICV.d



	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>

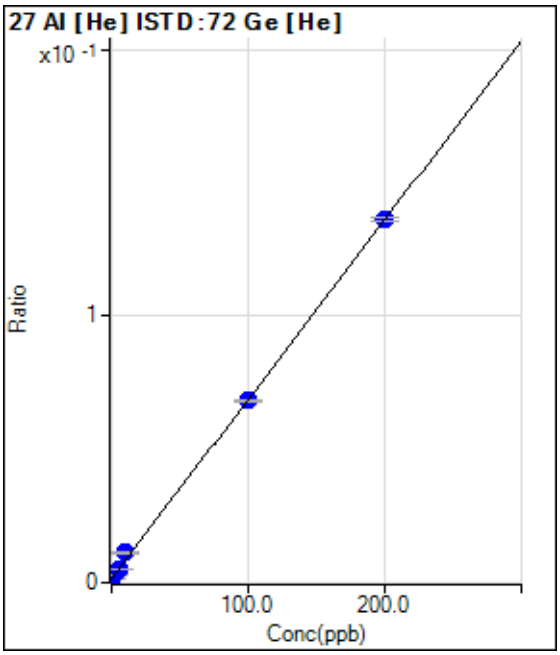


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	49334.54	0.0160	P	0.8
2	☐	2.000	2.015	92266.95	0.0302	P	0.6
3	☐	5.000	5.059	160116.56	0.0516	P	2.6
4	☐	10.000	14.776	365180.11	0.1202	P	2.4
5	☐	100.000	99.822	2158782.42	0.7203	A	1.3
6	☐	200.000	199.849	4197883.69	1.4260	A	2.5

y = 0.0071 * x + 0.0160
R = 0.9997
DL = 0.05741
BEC = 2.261

Weight: <None>
Min Conc: <None>

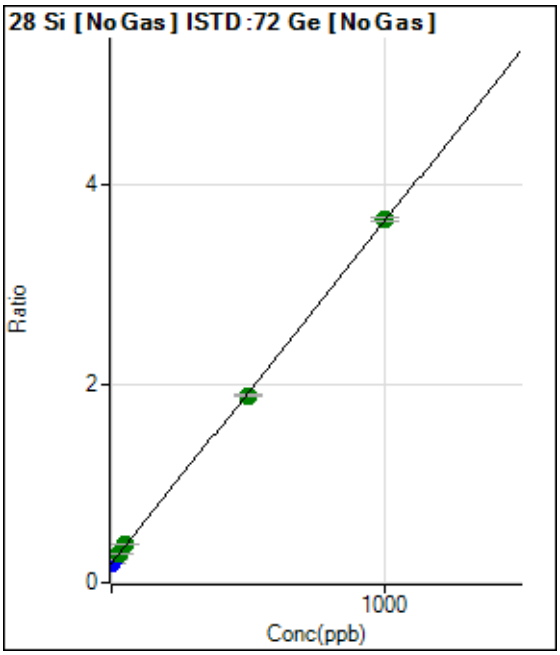
Calibration for 298_ICV.d



	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>

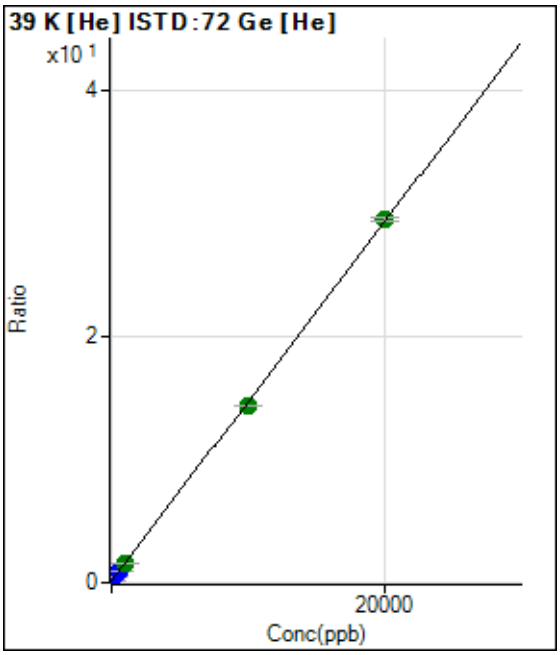


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	600907.74	0.1943	P	2.0
2	☐	10.000	11.917	719585.64	0.2353	P	1.9
3	☐	25.000	27.965	900430.79	0.2905	A	3.9
4	☐	50.000	55.084	1166373.42	0.3838	A	2.1
5	☐	500.000	490.668	5641911.17	1.8824	A	0.8
6	☐	1000.000	1004.318	10743909.84	3.6495	A	1.2

y = 0.0034 * x + 0.1943
R = 0.9999
DL = 3.456
BEC = 56.47

Weight: <None>
Min Conc: <None>

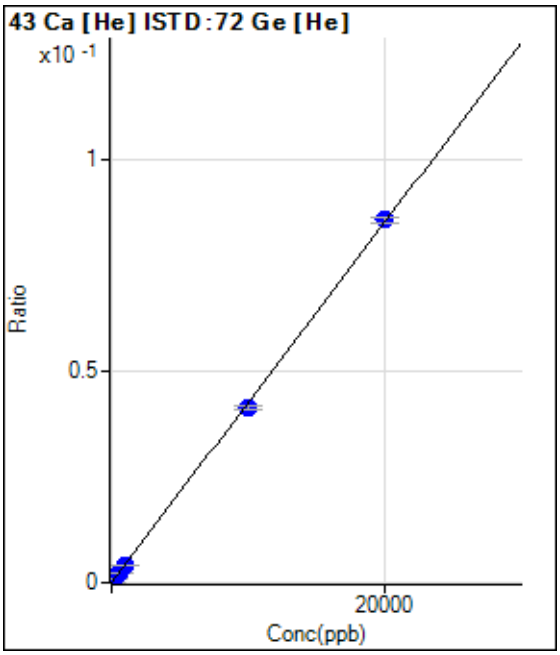
Calibration for 298_ICV.d



	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>

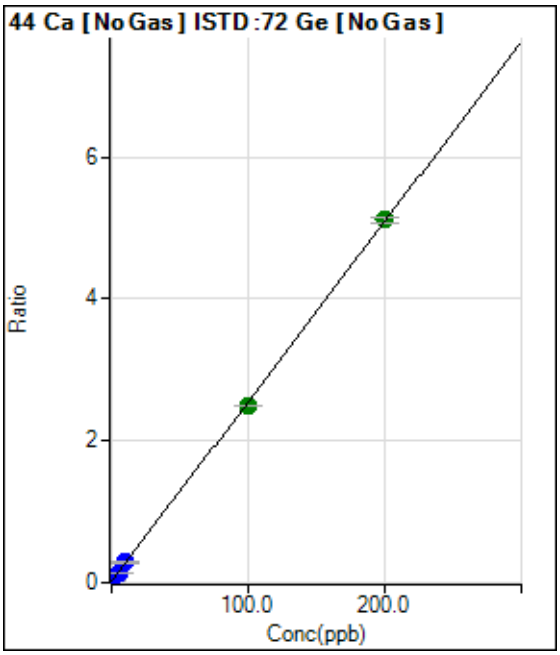


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0001	P	49.0
2	☐	200.000	231.623	943.38	0.0010	P	2.5
3	☐	500.000	492.475	1960.18	0.0022	P	10.2
4	☐	1000.000	965.531	3720.59	0.0042	P	4.2
5	☐	10000.00	9702.442	36572.31	0.0413	P	1.5
6	☐	20000.00	20150.37	74096.19	0.0856	P	1.7

y = 4.2447E-006 * x + 6.6041E-005
R = 0.9998
DL = 22.89
BEC = 15.56

Weight: <None>
Min Conc: <None>

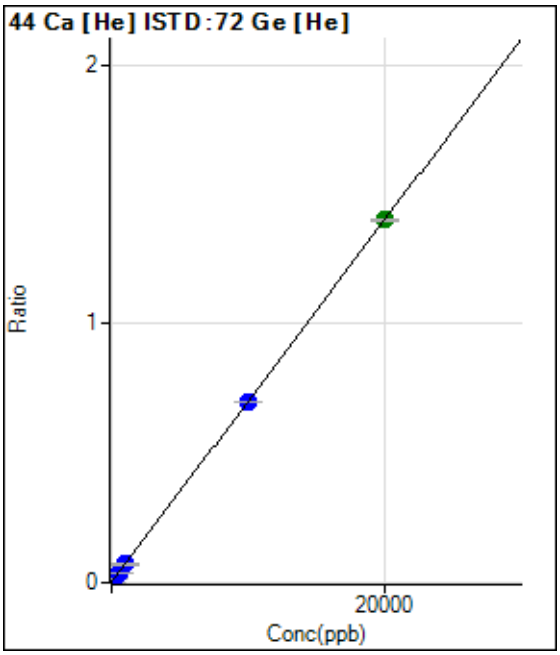
Calibration for 298_ICV.d



	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>

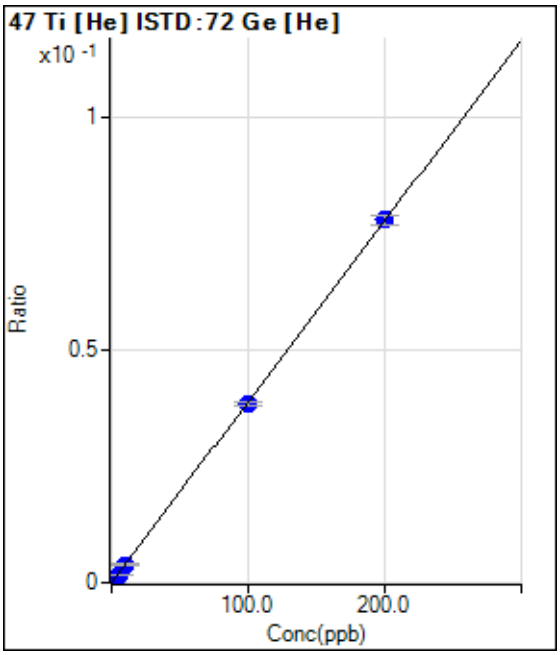


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1263.42	0.0014	P	4.0
2	☐	200.000	198.737	13757.12	0.0153	P	3.3
3	☐	500.000	505.637	33414.33	0.0368	P	1.6
4	☐	1000.000	989.797	63138.57	0.0707	P	1.0
5	☐	10000.00	9972.731	620081.84	0.6994	P	0.5
6	☐	20000.00	20014.01	1213809.88	1.4021	A	0.9

y = 6.9988E-005 * x + 0.0014
R = 1.0000
DL = 2.378
BEC = 19.95

Weight: <None>
Min Conc: <None>

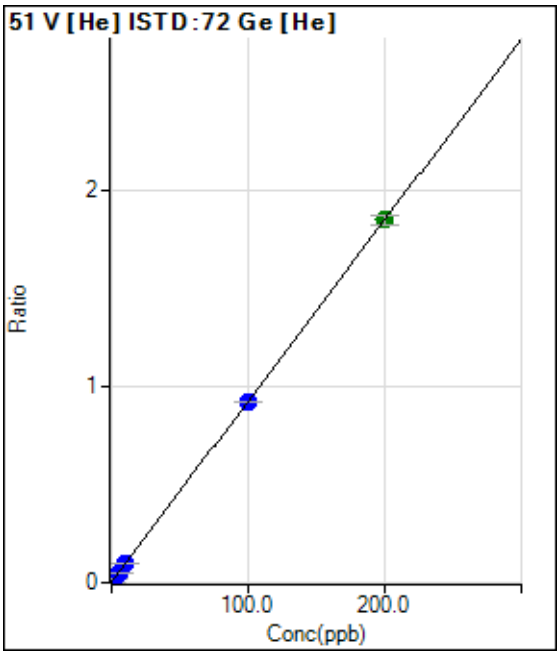
Calibration for 298_ICV.d



	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>

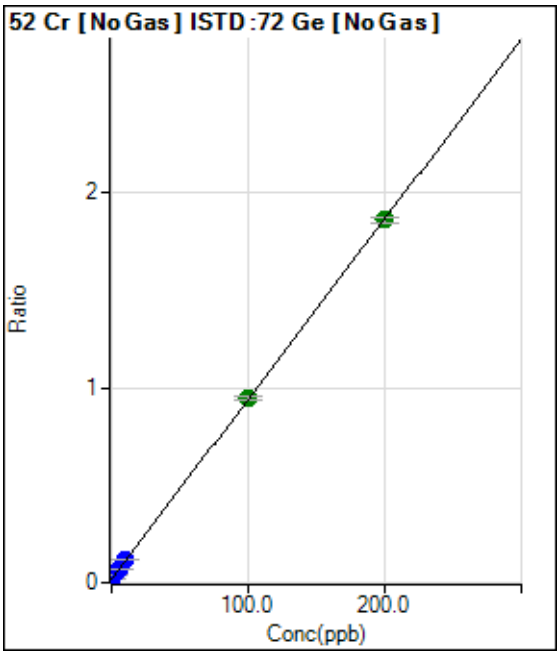


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3029.24	0.0034	P	5.5
2	☐	2.000	1.960	19276.92	0.0214	P	1.0
3	☐	5.000	4.901	44144.11	0.0486	P	1.4
4	☐	10.000	9.881	84478.61	0.0946	P	1.0
5	☐	100.000	99.587	818005.25	0.9226	P	0.7
6	☐	200.000	200.215	1602602.92	1.8515	A	2.6

y = 0.0092 * x + 0.0034
R = 1.0000
DL = 0.06021
BEC = 0.363

Weight: <None>
Min Conc: <None>

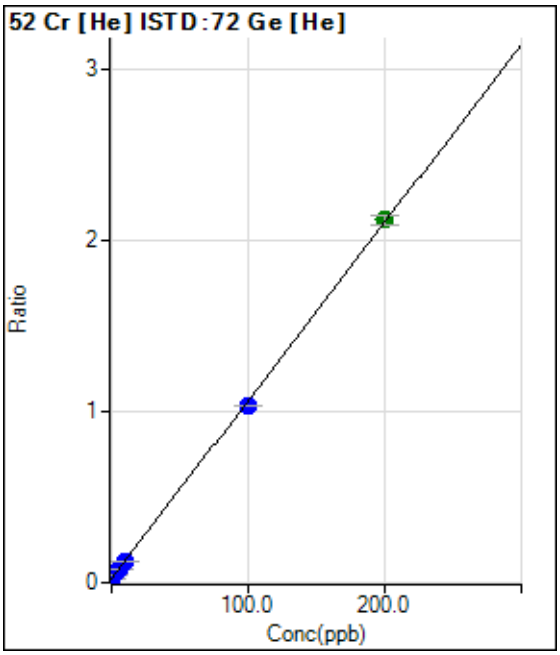
Calibration for 298_ICV.d



	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>

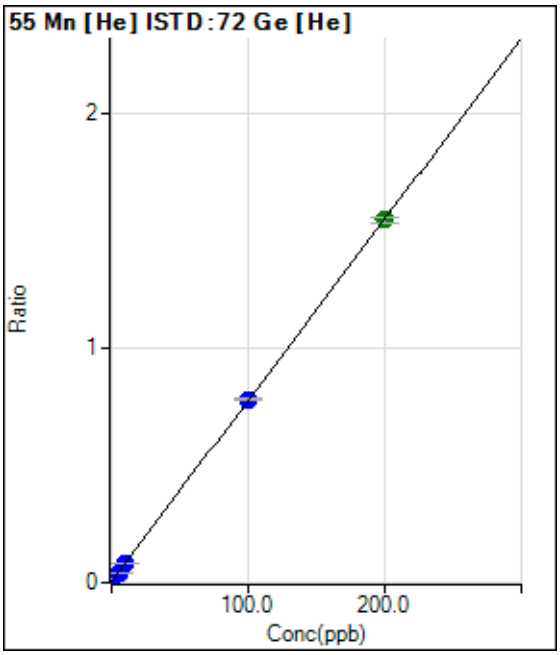


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21931.15	0.0243	P	2.2
2	☐	2.000	1.931	39824.76	0.0443	P	3.9
3	☐	5.000	5.091	70072.22	0.0771	P	1.6
4	☐	10.000	9.990	114371.50	0.1280	P	0.4
5	☐	100.000	96.956	914356.11	1.0313	P	0.7
6	☐	200.000	201.521	1832747.79	2.1173	A	2.5

y = 0.0104 * x + 0.0243
R = 0.9998
DL = 0.1538
BEC = 2.335

Weight: <None>
Min Conc: <None>

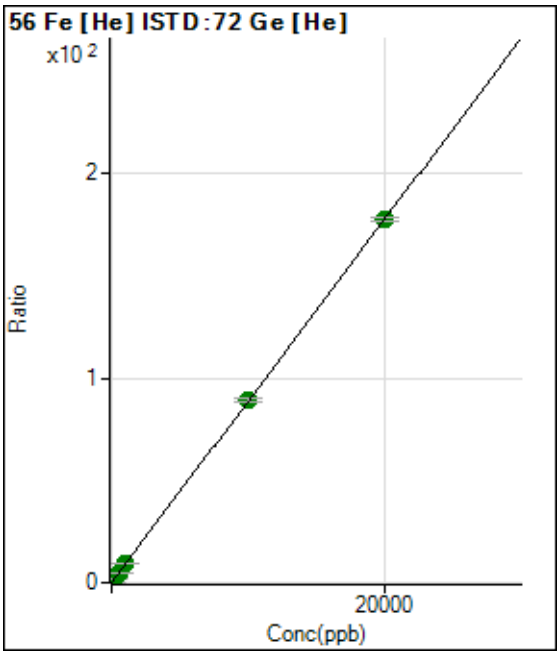
Calibration for 298_ICV.d



	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>

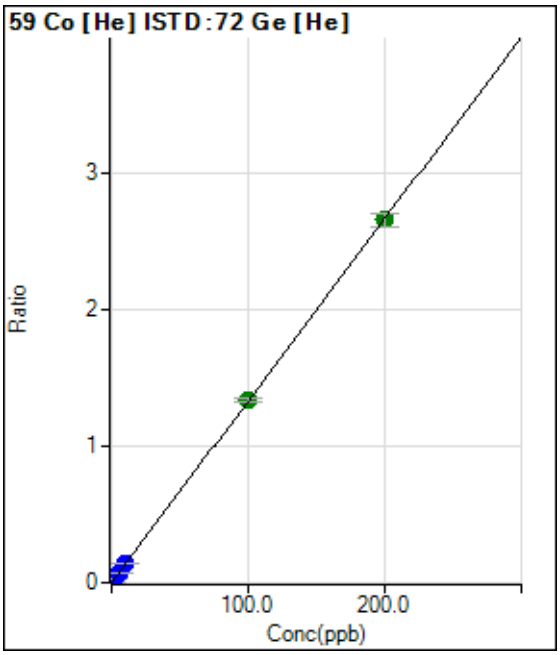


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	31072.42	0.0344	P	1.3
2	☐	200.000	204.075	1657732.16	1.8442	A	2.1
3	☐	500.000	504.173	4092817.85	4.5056	A	1.1
4	☐	1000.000	1012.693	8054336.13	9.0153	A	1.3
5	☐	10000.00	10035.90	78944542.16	89.0370	A	1.8
6	☐	20000.00	19981.26	153423931.0	177.236	A	1.0

y = 0.0089 * x + 0.0344
R = 1.0000
DL = 0.1569
BEC = 3.874

Weight: <None>
Min Conc: <None>

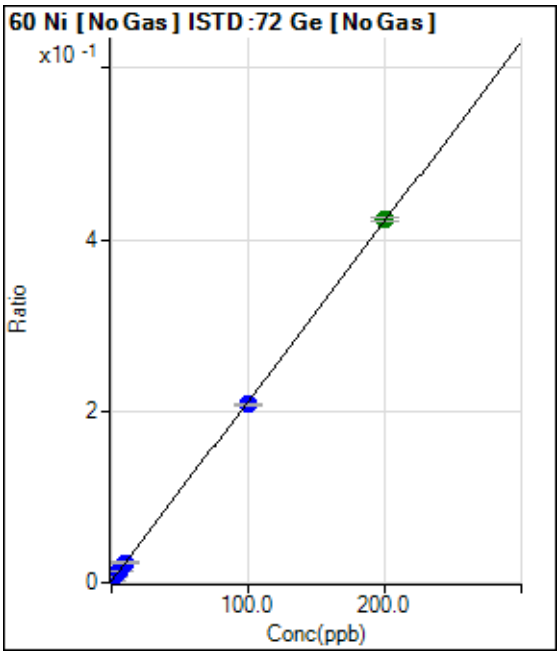
Calibration for 298_ICV.d



	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>

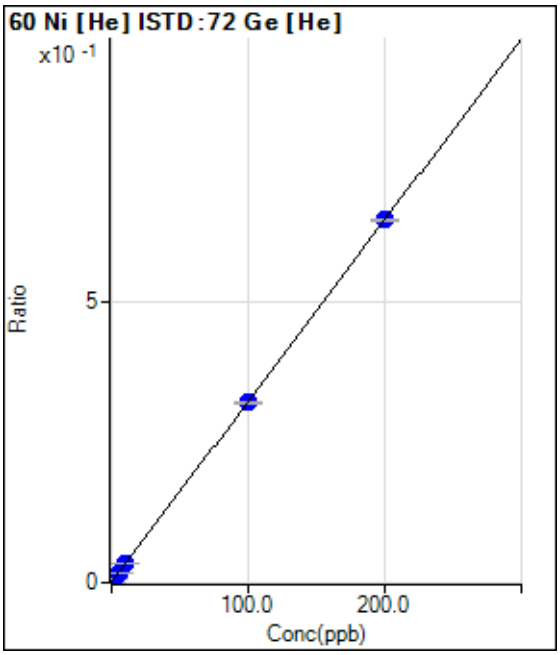


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5921.40	0.0019	P	2.4
2	☐	2.000	2.072	19133.65	0.0063	P	0.8
3	☐	5.000	5.056	38768.82	0.0125	P	2.2
4	☐	10.000	10.314	71456.71	0.0235	P	2.0
5	☐	100.000	98.082	621516.45	0.2074	P	1.4
6	☐	200.000	200.941	1244912.38	0.4228	A	0.9

y = 0.0021 * x + 0.0019
R = 0.9999
DL = 0.06626
BEC = 0.914

Weight: <None>
Min Conc: <None>

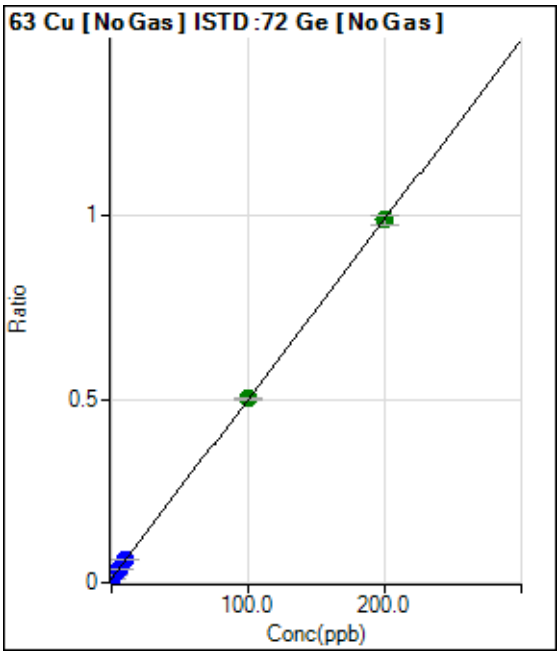
Calibration for 298_ICV.d



	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>

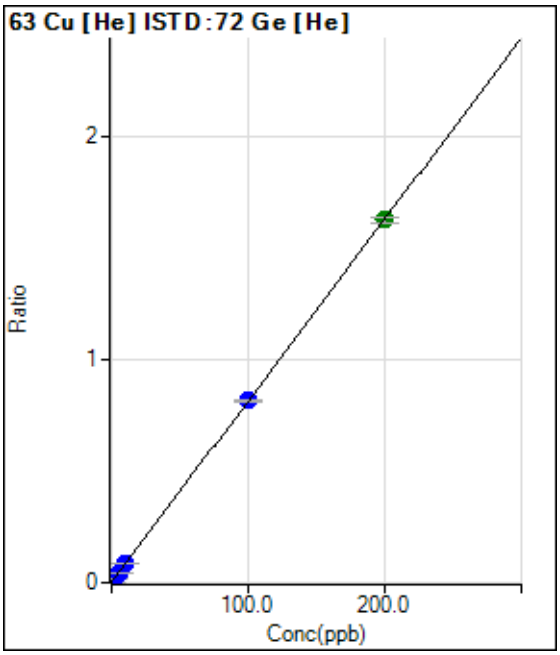


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34564.20	0.0112	P	1.7
2	☐	2.000	2.134	66100.51	0.0216	P	1.8
3	☐	5.000	5.125	112310.76	0.0362	P	3.8
4	☐	10.000	10.439	189088.12	0.0622	P	1.6
5	☐	100.000	100.301	1503456.80	0.5016	A	0.8
6	☐	200.000	199.823	2909557.46	0.9882	A	2.4

y = 0.0049 * x + 0.0112
R = 1.0000
DL = 0.1134
BEC = 2.286

Weight: <None>
Min Conc: <None>

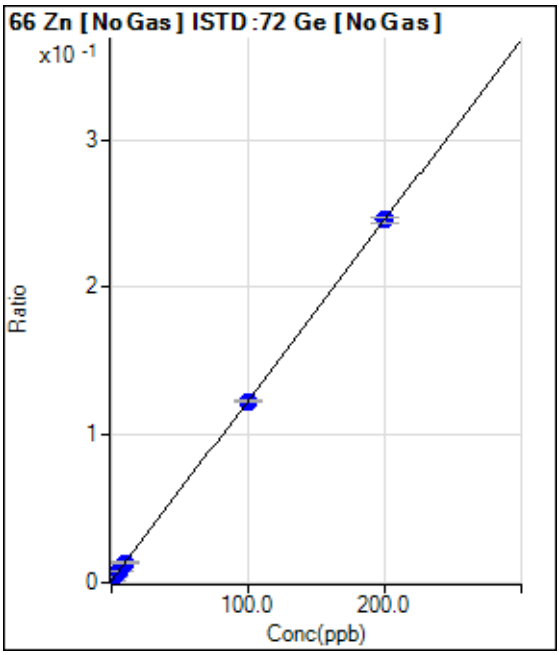
Calibration for 298_ICV.d



	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>

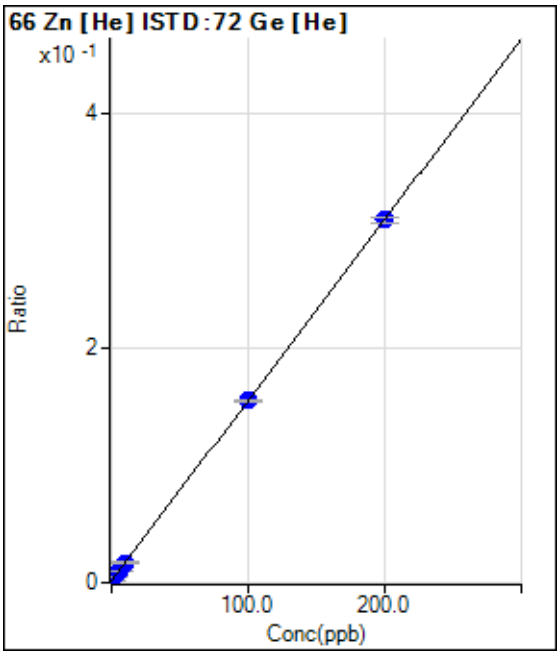


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4040.70	0.0013	P	3.2
2	☐	2.000	2.014	11515.07	0.0038	P	3.6
3	☐	5.000	4.956	22816.24	0.0074	P	1.4
4	☐	10.000	10.099	41420.13	0.0136	P	2.4
5	☐	100.000	99.542	368114.96	0.1228	P	1.2
6	☐	200.000	200.225	723466.47	0.2457	P	1.4

y = 0.0012 * x + 0.0013
R = 1.0000
DL = 0.1039
BEC = 1.07

Weight: <None>
Min Conc: <None>

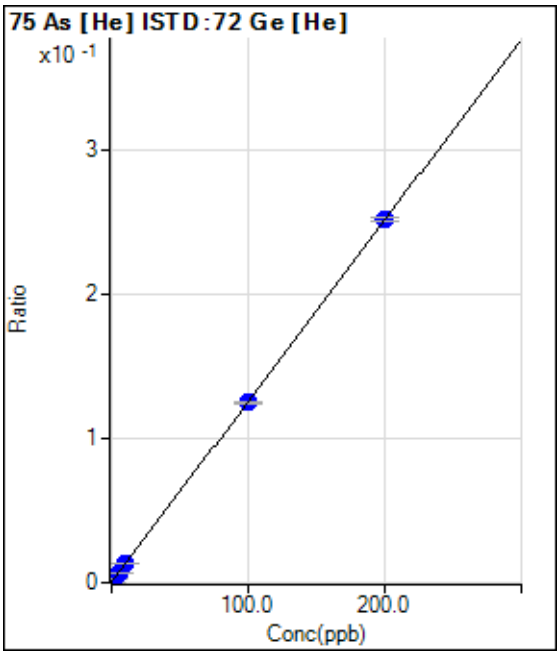
Calibration for 298_ICV.d



	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>

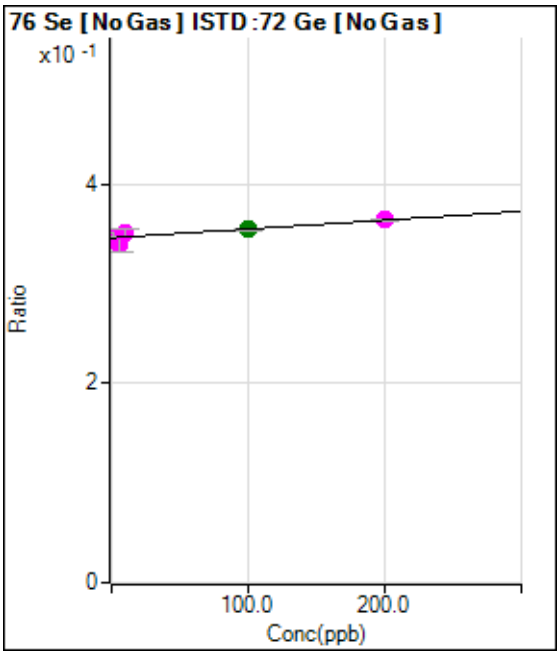


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	267.78	0.0003	P	15.4
2	☐	2.000	1.974	2490.25	0.0028	P	2.1
3	☐	5.000	5.041	6010.26	0.0066	P	2.0
4	☐	10.000	10.038	11508.28	0.0129	P	1.3
5	☐	100.000	99.310	110666.32	0.1248	P	0.4
6	☐	200.000	200.342	217702.84	0.2515	P	1.1

y = 0.0013 * x + 2.9572E-004
R = 1.0000
DL = 0.1092
BEC = 0.2359

Weight: <None>
Min Conc: <None>

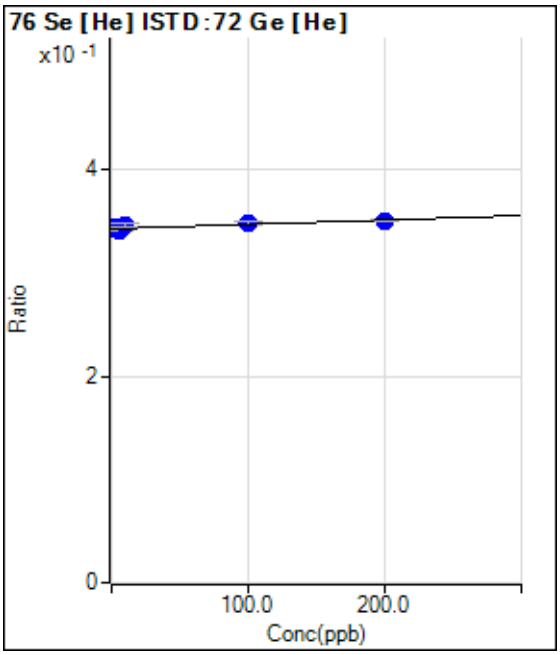
Calibration for 298_ICV.d



	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>

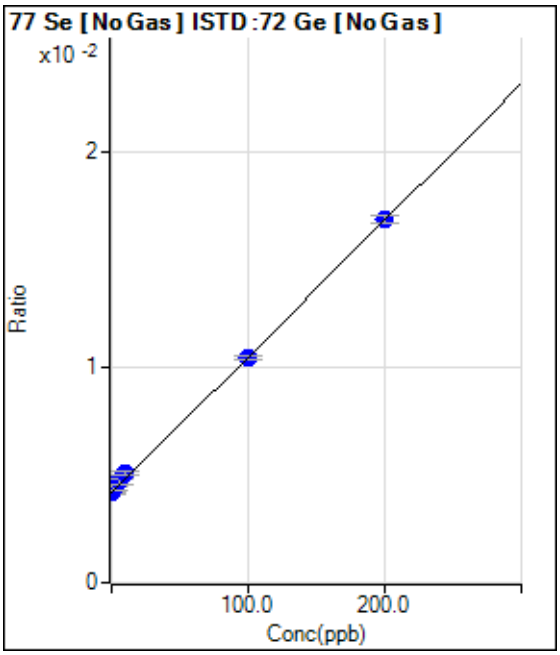


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	310036.10	0.3429	P	2.3
2	☐	2.000	30.574	309428.39	0.3442	P	0.5
3	☐	5.000	-41.003	309873.12	0.3411	P	0.6
4	☐	10.000	75.428	309205.71	0.3461	P	1.0
5	☐	100.000	128.869	308888.10	0.3484	P	0.8
6	☐	200.000	183.158	303599.10	0.3507	P	0.7

y = 4.2910E-005 * x + 0.3429
R = 0.8868
DL = 547.6
BEC = 7990

Weight: <None>
Min Conc: <None>

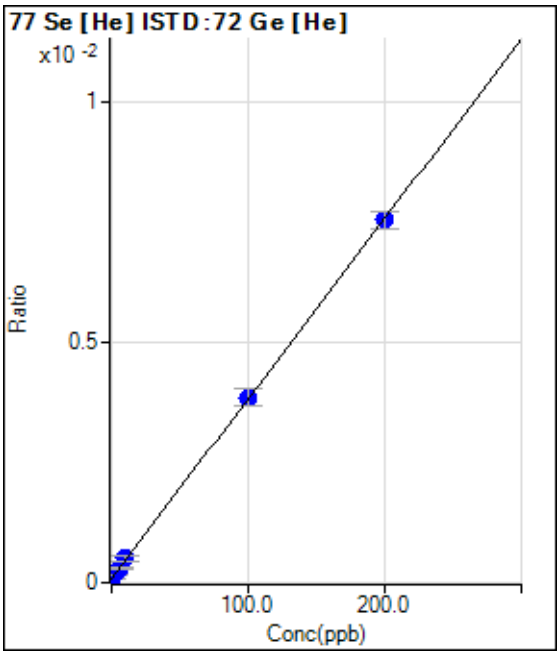
Calibration for 298_ICV.d



	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>

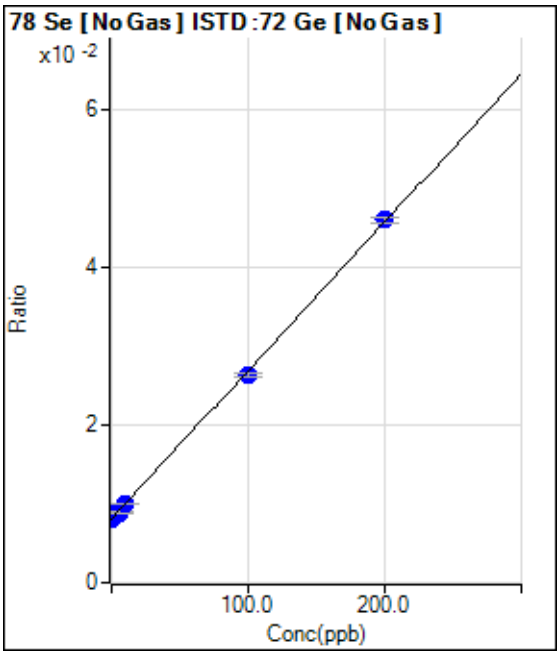


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	76.67	0.0001	P	6.0
2	☐	2.000	1.998	143.33	0.0002	P	7.5
3	☐	5.000	5.583	266.68	0.0003	P	8.8
4	☐	10.000	11.205	450.01	0.0005	P	20.2
5	☐	100.000	100.857	3417.15	0.0039	P	9.3
6	☐	200.000	199.497	6528.36	0.0075	P	4.9

y = 3.7384E-005 * x + 8.4713E-005
R = 1.0000
DL = 0.4099
BEC = 2.266

Weight: <None>
Min Conc: <None>

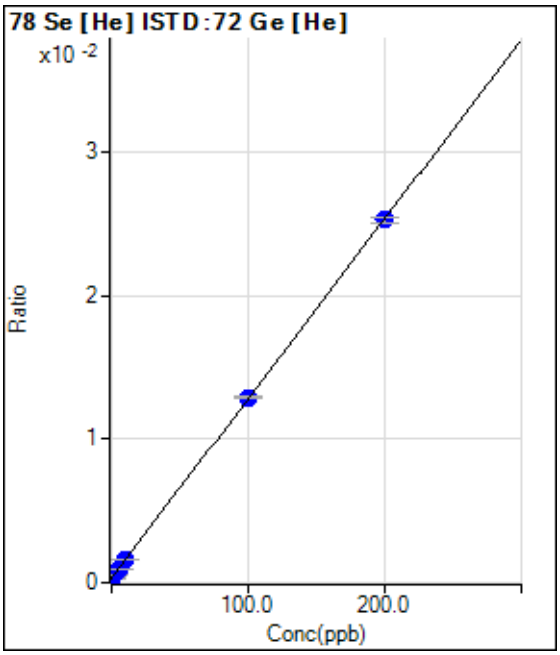
Calibration for 298_ICV.d



	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>

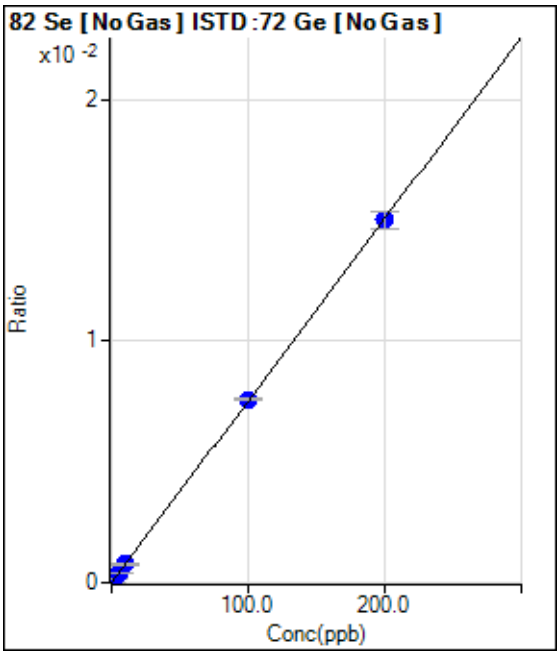


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	290.00	0.0003	P	15.8
2	☐	2.000	1.853	496.01	0.0006	P	1.0
3	☐	5.000	4.802	836.03	0.0009	P	3.7
4	☐	10.000	10.222	1427.41	0.0016	P	3.1
5	☐	100.000	100.828	11456.22	0.0129	P	2.0
6	☐	200.000	199.581	21869.72	0.0253	P	1.5

y = 1.2498E-004 * x + 3.2014E-004
R = 1.0000
DL = 1.215
BEC = 2.562

Weight: <None>
Min Conc: <None>

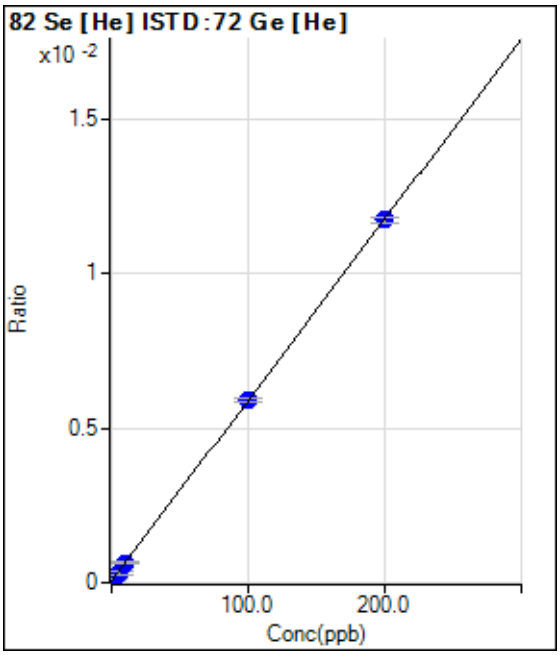
Calibration for 298_ICV.d



	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>

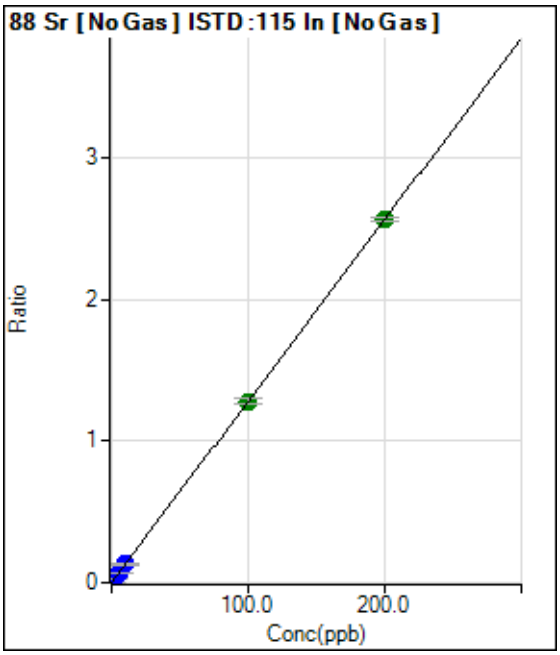


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0001	P	12.5
2	☐	2.000	1.581	136.67	0.0002	P	64.4
3	☐	5.000	4.529	293.34	0.0003	P	28.1
4	☐	10.000	10.112	580.03	0.0006	P	7.1
5	☐	100.000	100.313	5244.48	0.0059	P	2.6
6	☐	200.000	199.854	10150.73	0.0117	P	1.8

y = 5.8372E-005 * x + 5.9044E-005
R = 1.0000
DL = 0.3788
BEC = 1.012

Weight: <None>
Min Conc: <None>

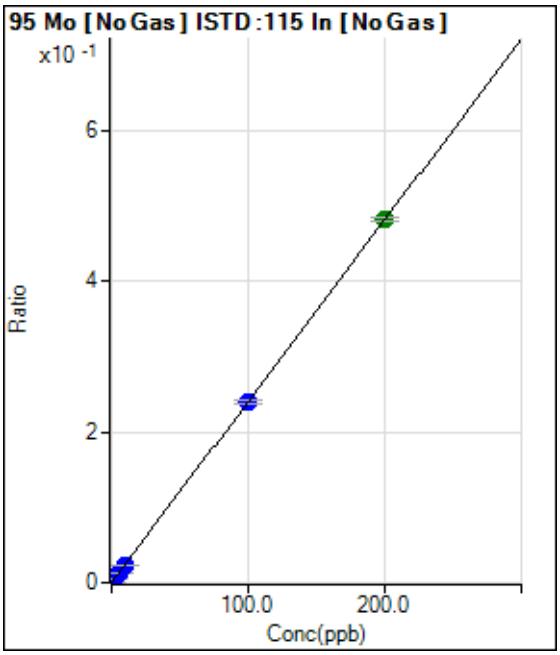
Calibration for 298_ICV.d



	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

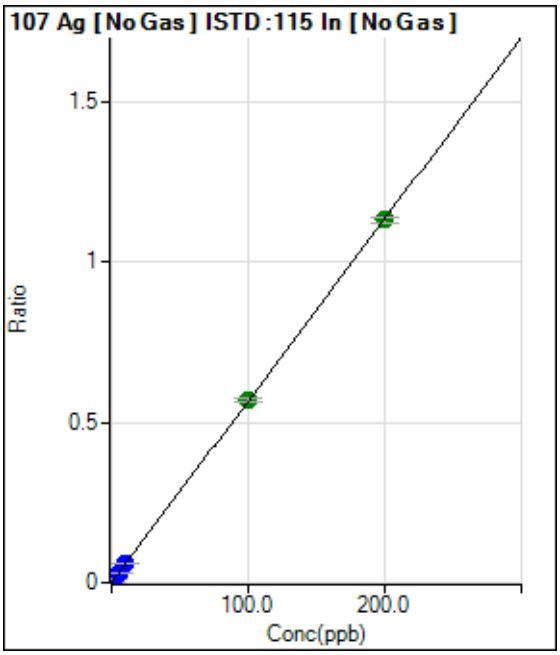
Weight: <None>
Min Conc: <None>



	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

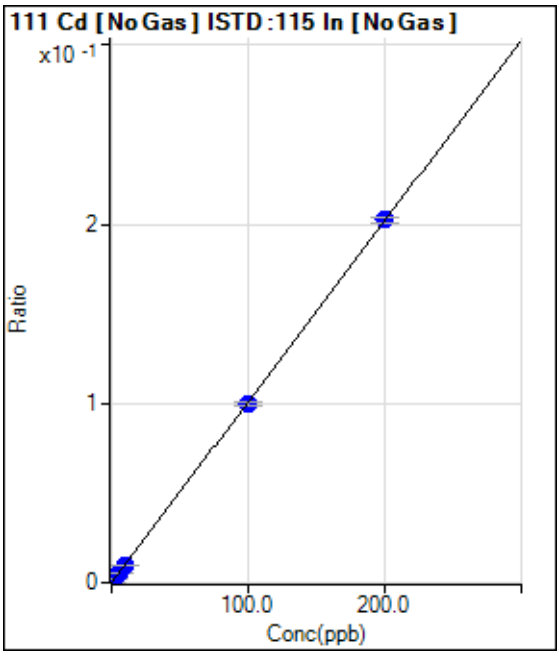
Weight: <None>
Min Conc: <None>



	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>

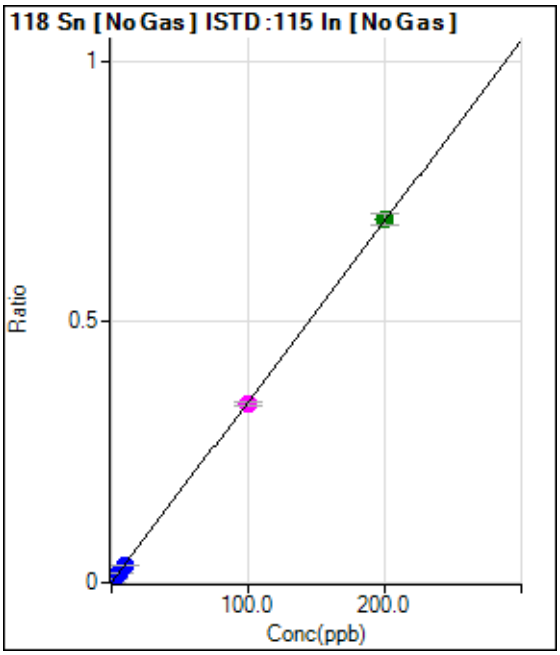


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-7.15	0.0000	P	-173.2
2	☐	2.000	1.916	6229.16	0.0019	P	5.3
3	☐	5.000	4.888	15913.53	0.0049	P	3.1
4	☐	10.000	9.926	31865.40	0.0100	P	2.2
5	☐	100.000	98.610	311855.09	0.0994	P	1.9
6	☐	200.000	200.703	625453.66	0.2024	P	1.9

y = 0.0010 * x - 2.2479E-006
R = 1.0000
DL = 0.01158
BEC = -0.002229

Weight: <None>
Min Conc: <None>

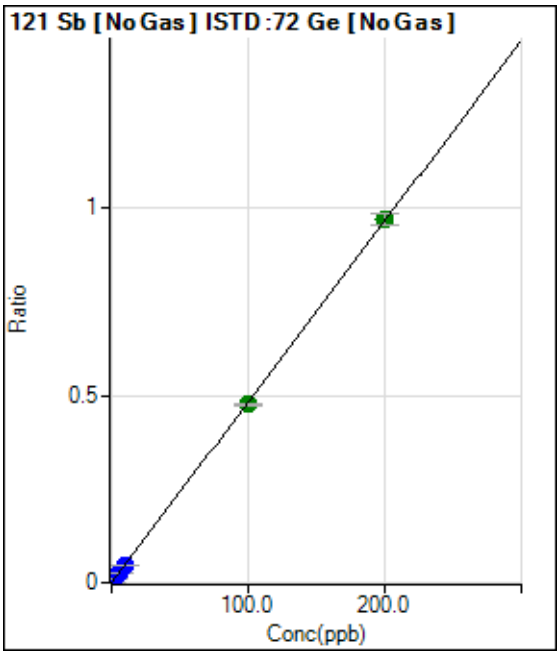
Calibration for 298_ICV.d



	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>

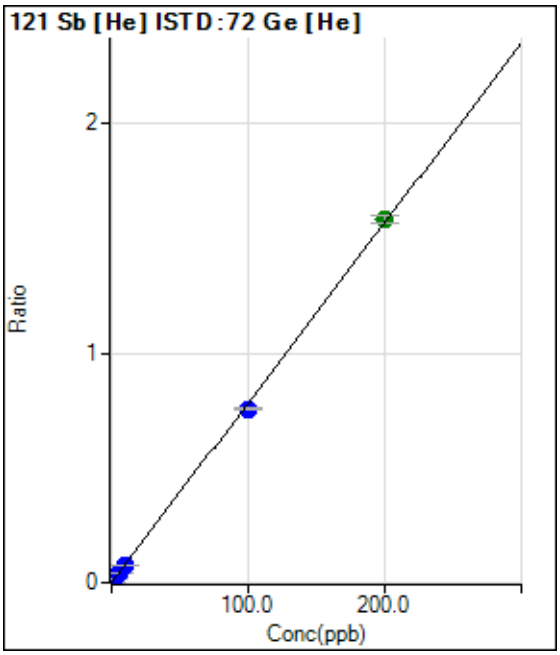


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	403.35	0.0001	P	6.1
2	☐	2.000	1.957	29232.82	0.0096	P	3.0
3	☐	5.000	4.884	73371.50	0.0237	P	2.9
4	☐	10.000	9.994	146735.08	0.0483	P	1.4
5	☐	100.000	98.459	1422600.76	0.4746	A	0.2
6	☐	200.000	200.774	2848880.90	0.9677	A	3.1

y = 0.0048 * x + 1.3040E-004
R = 1.0000
DL = 0.004983
BEC = 0.02706

Weight: <None>
Min Conc: <None>

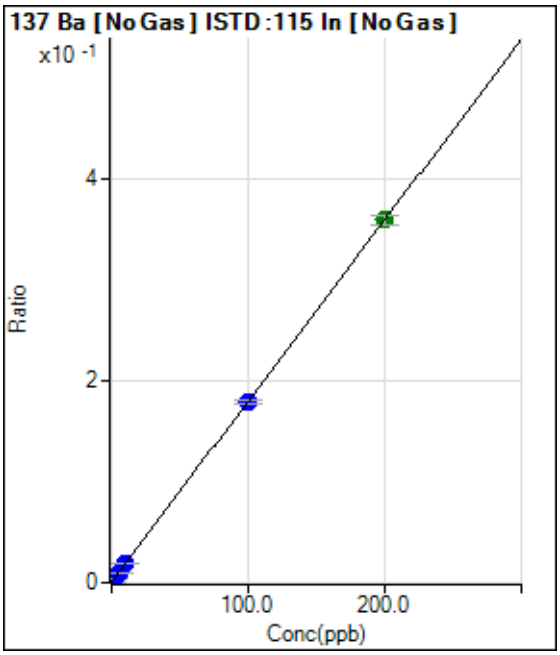
Calibration for 298_ICV.d



	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>

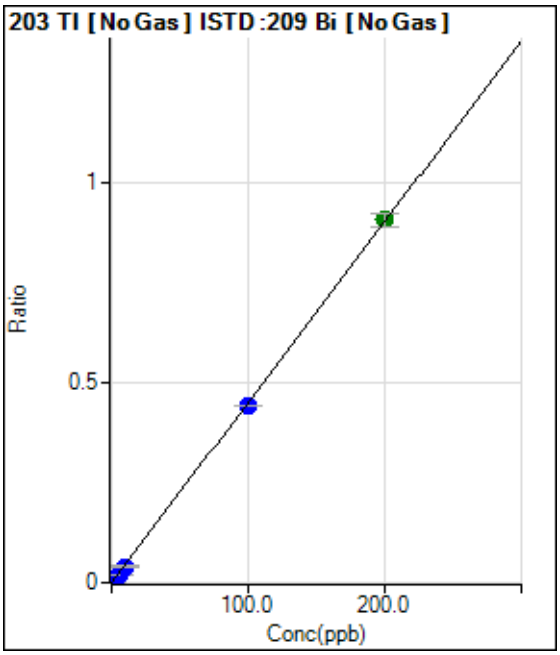


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1963.51	0.0006	P	4.1
2	☐	2.000	1.824	12519.60	0.0039	P	6.6
3	☐	5.000	4.851	30085.25	0.0093	P	4.2
4	☐	10.000	9.852	58267.46	0.0183	P	0.8
5	☐	100.000	99.567	562450.06	0.1794	P	2.7
6	☐	200.000	200.229	1112788.03	0.3601	A	2.3

y = 0.0018 * x + 6.0663E-004
R = 1.0000
DL = 0.04139
BEC = 0.3379

Weight: <None>
Min Conc: <None>

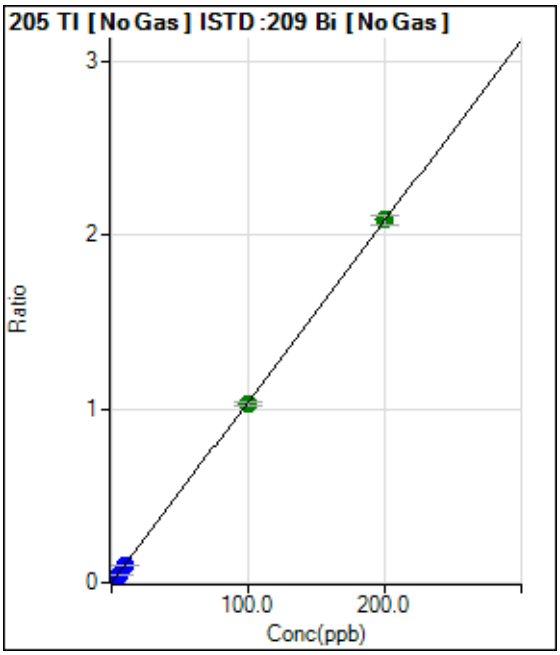
Calibration for 298_ICV.d



	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>

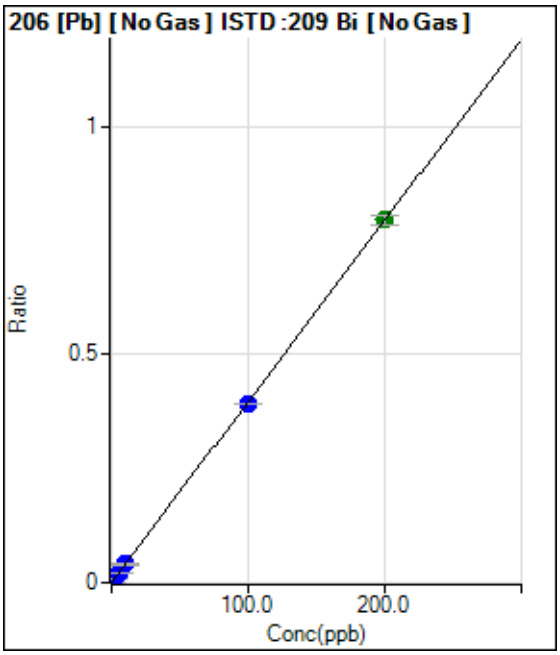


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140.00	0.0001	P	8.9
2	☐	2.000	1.798	40389.01	0.0188	P	2.1
3	☐	5.000	4.627	104690.73	0.0482	P	1.8
4	☐	10.000	9.384	212692.28	0.0977	P	1.6
5	☐	100.000	98.786	2196107.52	1.0274	A	1.5
6	☐	200.000	200.649	4331587.12	2.0868	A	2.4

y = 0.0104 * x + 6.5284E-005
R = 1.0000
DL = 0.001681
BEC = 0.006277

Weight: <None>
Min Conc: <None>

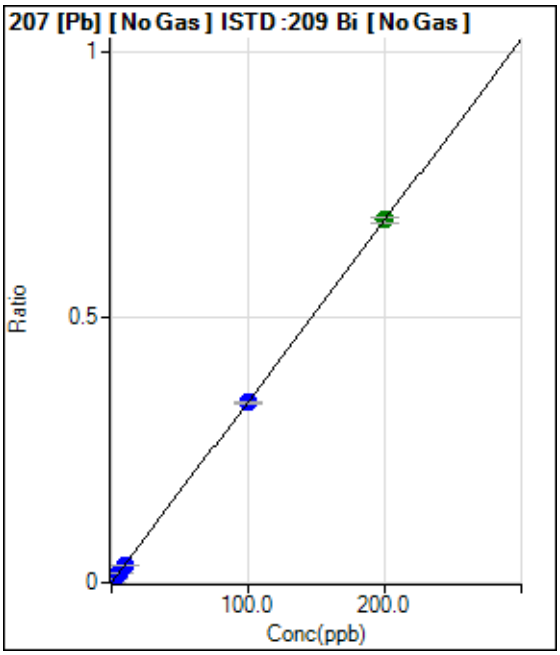
Calibration for 298_ICV.d



	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>

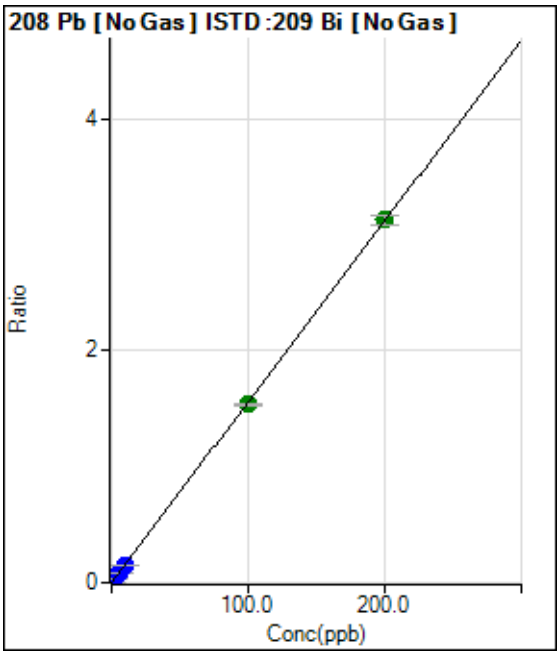


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	240.01	0.0001	P	6.9
2	☐	2.000	1.954	14582.08	0.0068	P	0.6
3	☐	5.000	5.007	37319.72	0.0172	P	3.8
4	☐	10.000	9.903	73765.05	0.0339	P	1.4
5	☐	100.000	99.421	724659.44	0.3390	P	1.1
6	☐	200.000	200.294	1417520.40	0.6829	A	1.7

y = 0.0034 * x + 1.1192E-004
R = 1.0000
DL = 0.006821
BEC = 0.03283

Weight: <None>
Min Conc: <None>

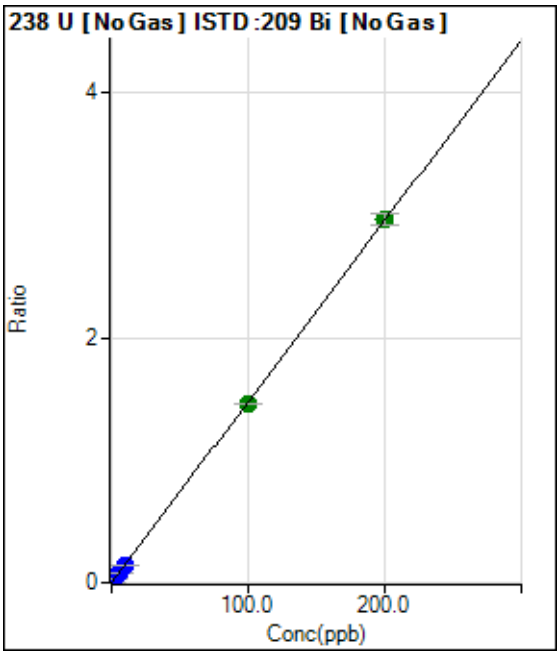
Calibration for 298_ICV.d



	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>

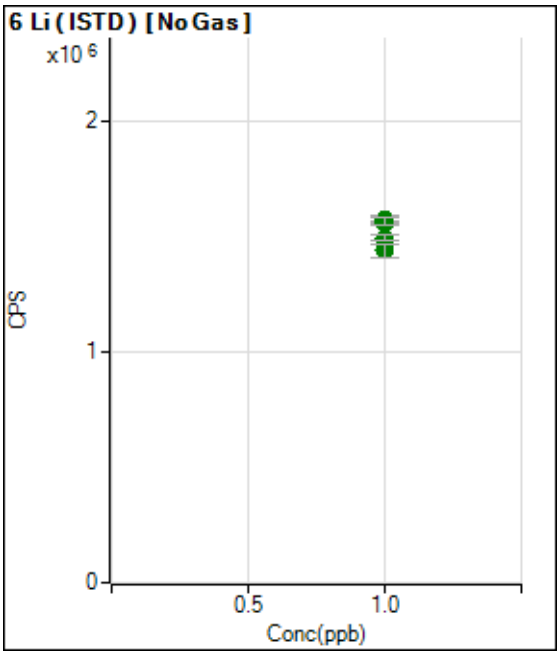


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	34.6
2	☐	2.000	1.984	63065.99	0.0293	P	3.0
3	☐	5.000	4.941	158545.61	0.0730	P	2.8
4	☐	10.000	9.915	318943.52	0.1464	P	1.4
5	☐	100.000	98.807	3119284.64	1.4592	A	0.8
6	☐	200.000	200.603	6148431.58	2.9625	A	3.4

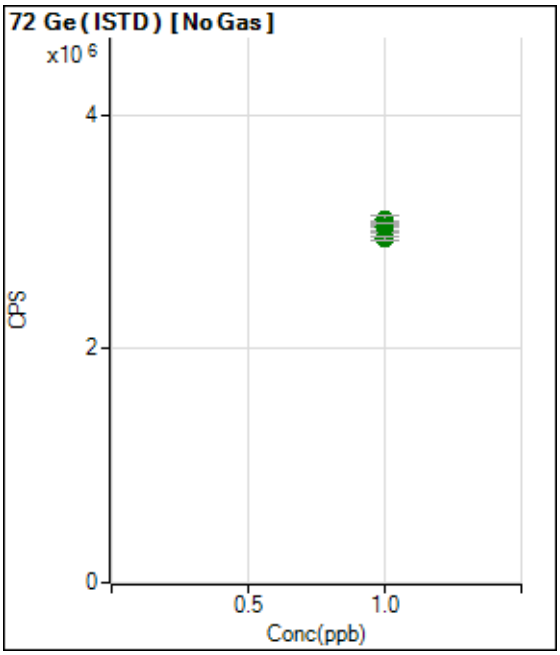
y = 0.0148 * x + 7.7613E-006
R = 1.0000
DL = 0.0005457
BEC = 0.0005255

Weight: <None>
Min Conc: <None>

Calibration for 298_ICV.d

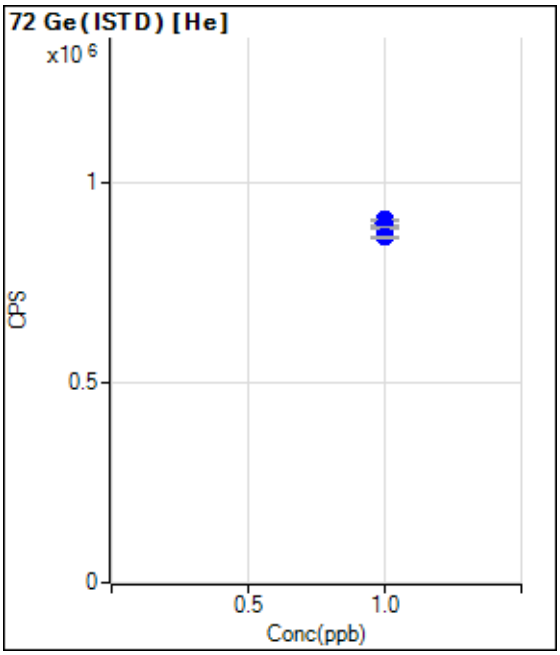


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1565159.36		A	0.9
2	☐	1.000		1573996.43		A	2.2
3	☐	1.000		1558680.71		A	1.4
4	☐	1.000		1569646.12		A	1.8
5	☐	1.000		1497310.93		A	2.0
6	☐	1.000		1439276.40		A	4.3

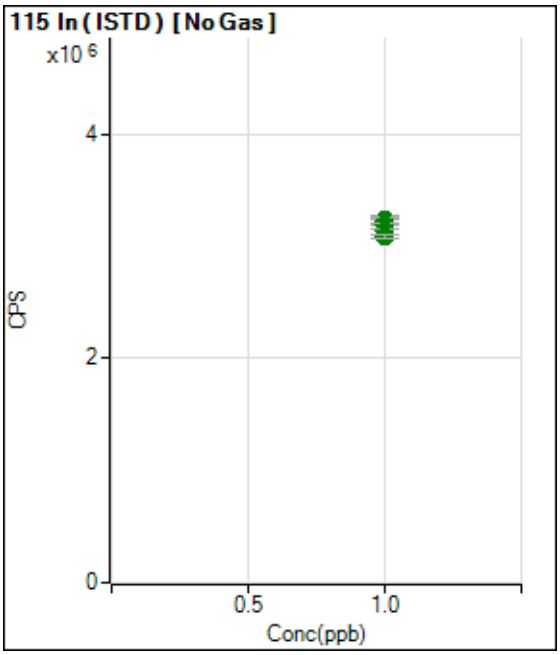


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3093001.62		A	0.3
2	☐	1.000		3058569.54		A	1.4
3	☐	1.000		3101539.01		A	2.4
4	☐	1.000		3038987.56		A	2.4
5	☐	1.000		2997236.31		A	0.1
6	☐	1.000		2944188.81		A	1.2

Calibration for 298_ICV.d

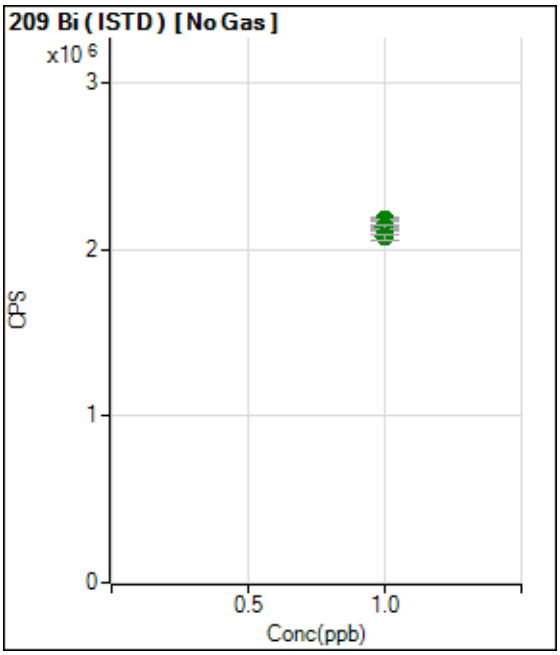


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		904451.55		P	1.6
2	☐	1.000		899028.89		P	1.1
3	☐	1.000		908447.20		P	0.9
4	☐	1.000		893420.40		P	0.2
5	☐	1.000		886654.49		P	0.7
6	☐	1.000		865678.76		P	0.6



	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



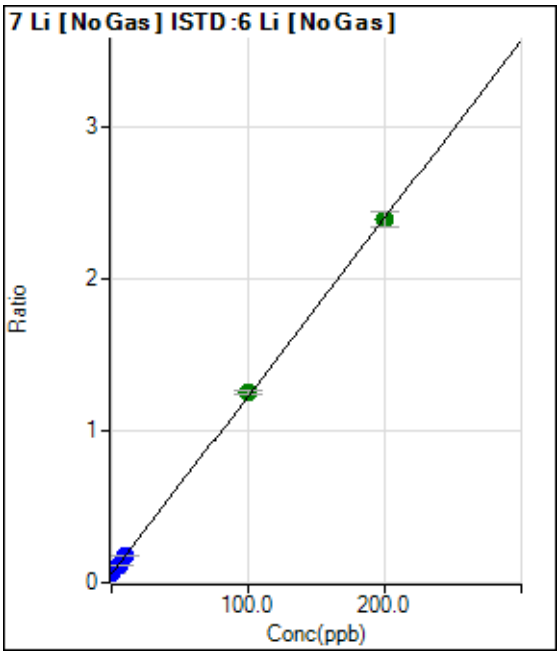
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2147222.47		A	2.8
2	☐	1.000		2152913.56		A	2.0
3	☐	1.000		2173141.74		A	2.1
4	☐	1.000		2178001.69		A	0.8
5	☐	1.000		2137641.27		A	1.1
6	☐	1.000		2076253.30		A	1.8

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

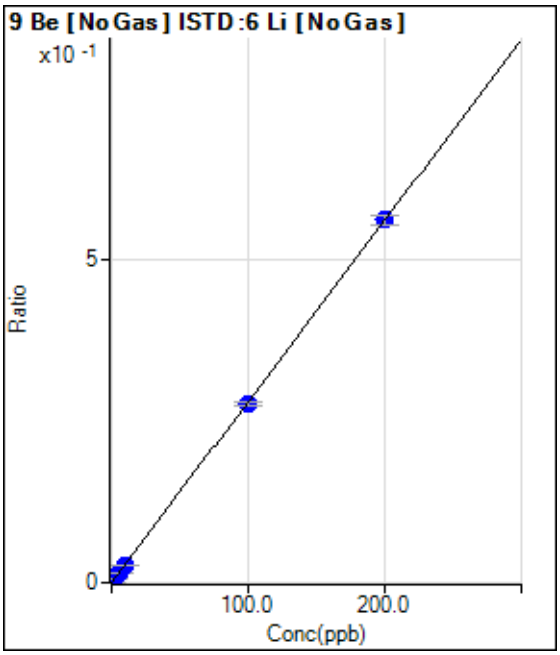
Calibration for 227_ICV.d



	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>

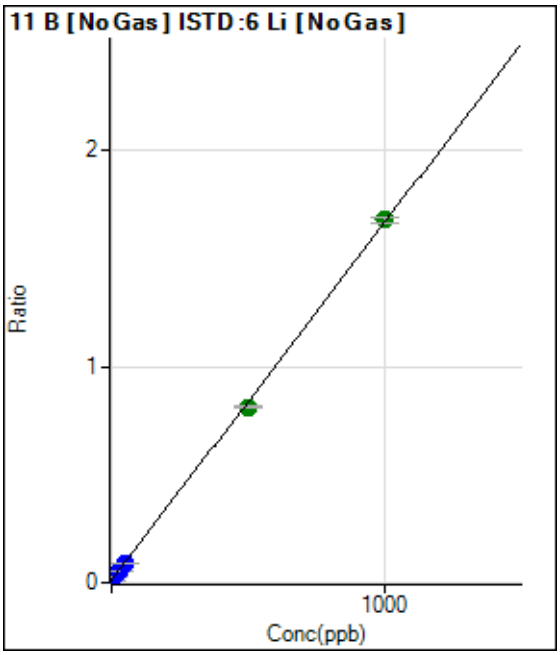


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	42.5
2	☐	2.000	1.916	6484.88	0.0054	P	6.0
3	☐	5.000	4.982	16931.93	0.0139	P	3.6
4	☐	10.000	9.854	32849.99	0.0275	P	1.6
5	☐	100.000	99.180	321714.68	0.2772	P	1.9
6	☐	200.000	200.419	634846.85	0.5601	P	2.4

y = 0.0028 * x + 5.3462E-006
R = 1.0000
DL = 0.002442
BEC = 0.001913

Weight: <None>
Min Conc: <None>

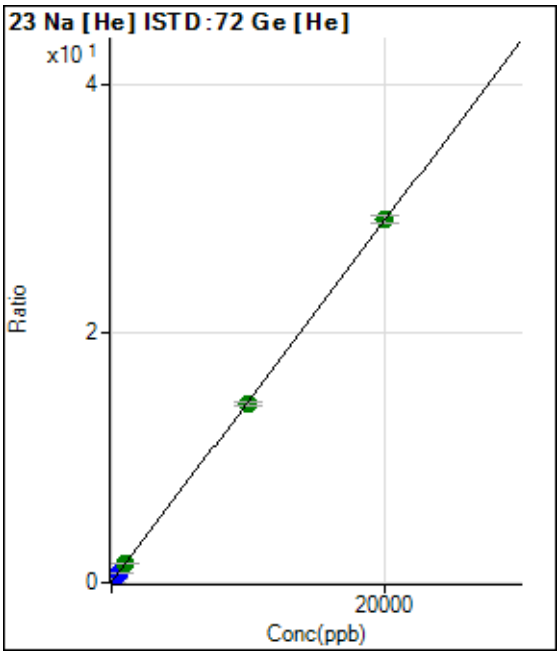
Calibration for 227_ICV.d



	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>

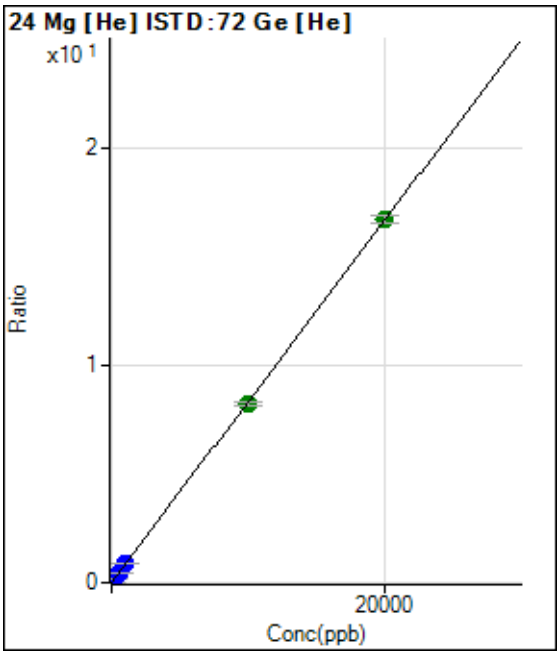


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51943.45	0.0653	P	1.4
2	☐	200.000	210.553	297298.89	0.3699	P	1.1
3	☐	500.000	535.401	666510.43	0.8400	P	1.1
4	☐	1000.000	1038.524	1239915.42	1.5680	A	1.5
5	☐	10000.00	9882.115	11273402.33	14.3645	A	1.7
6	☐	20000.00	20056.02	22155233.84	29.0860	A	2.1

y = 0.0014 * x + 0.0653
R = 1.0000
DL = 1.842
BEC = 45.1

Weight: <None>
Min Conc: <None>

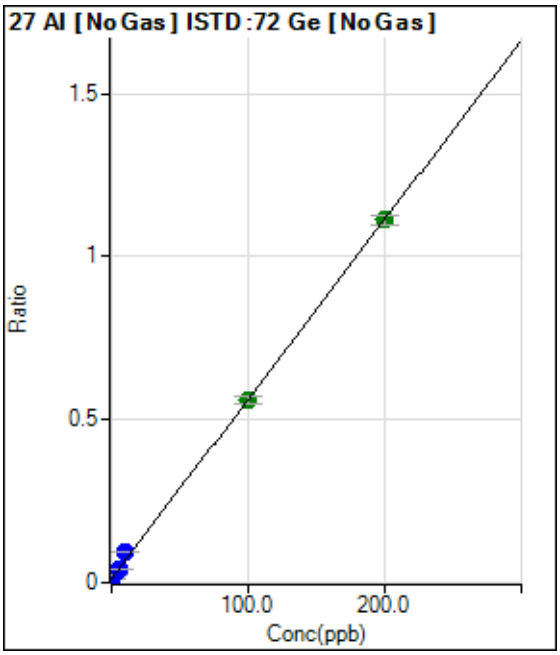
Calibration for 227_ICV.d



	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>

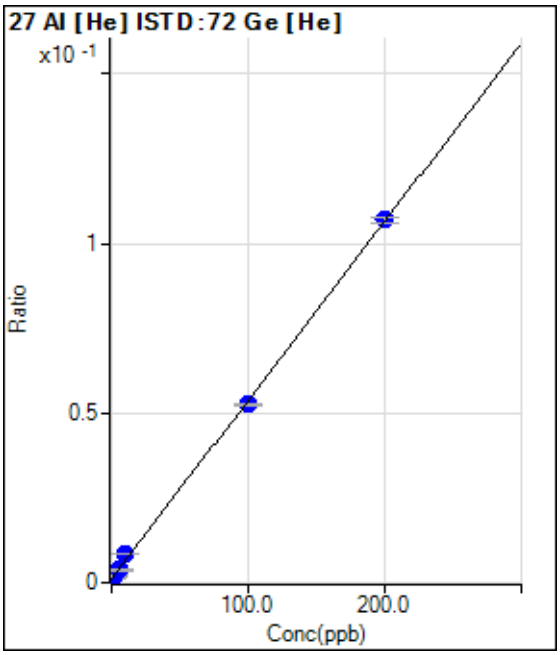


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	35283.72	0.0124	P	6.8
2	☐	2.000	1.889	64512.85	0.0228	P	1.2
3	☐	5.000	5.174	116040.84	0.0408	P	1.0
4	☐	10.000	14.810	264245.29	0.0939	P	1.7
5	☐	100.000	99.674	1579013.00	0.5611	A	5.0
6	☐	200.000	199.919	3032775.58	1.1131	A	2.5

y = 0.0055 * x + 0.0124
R = 0.9997
DL = 0.4605
BEC = 2.244

Weight: <None>
Min Conc: <None>

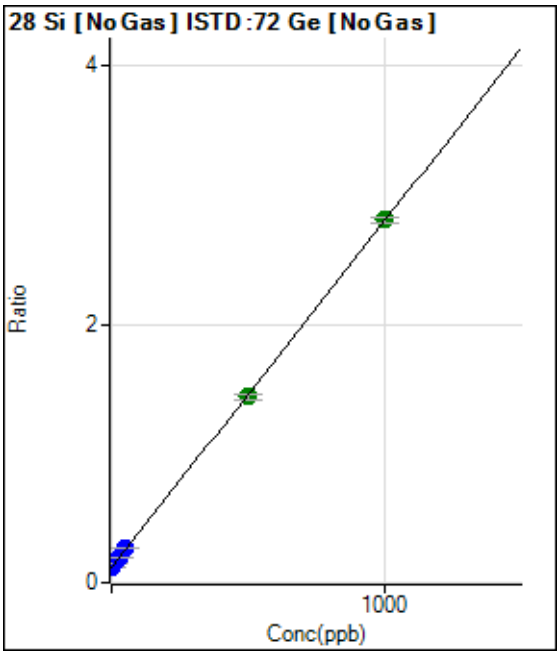
Calibration for 227_ICV.d



	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>

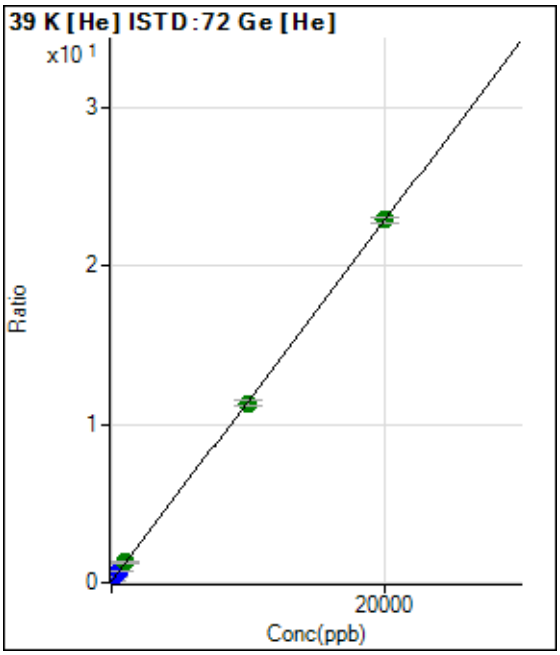


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	335310.28	0.1174	P	0.8
2	☐	10.000	11.952	423718.39	0.1495	P	0.2
3	☐	25.000	28.606	551588.26	0.1942	P	0.6
4	☐	50.000	55.773	751434.44	0.2670	P	2.1
5	☐	500.000	492.676	4050052.34	1.4390	A	2.4
6	☐	1000.000	1003.264	7653620.30	2.8085	A	1.3

y = 0.0027 * x + 0.1174
R = 0.9999
DL = 1.091
BEC = 43.78

Weight: <None>
Min Conc: <None>

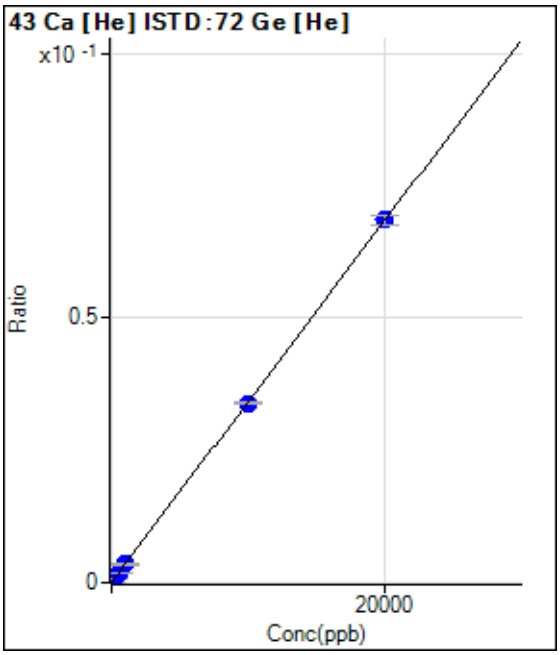
Calibration for 227_ICV.d



	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>

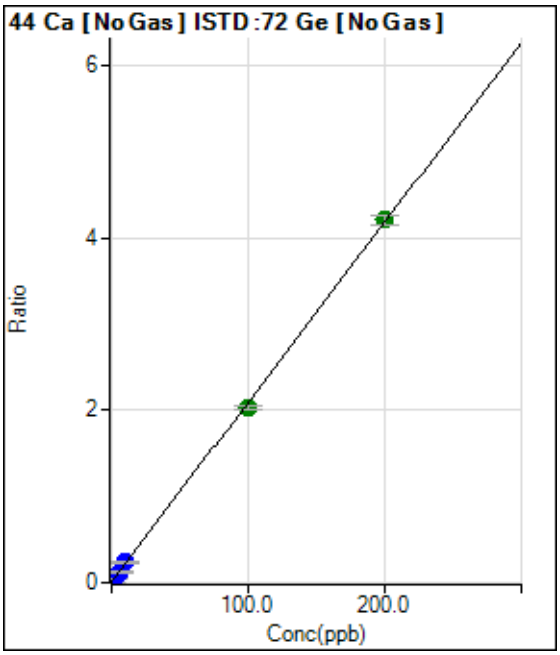


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.33	0.0001	P	66.3
2	☐	200.000	174.601	523.35	0.0007	P	20.7
3	☐	500.000	515.134	1440.10	0.0018	P	9.9
4	☐	1000.000	1006.566	2763.66	0.0035	P	4.6
5	☐	10000.00	9886.946	26562.66	0.0338	P	1.1
6	☐	20000.00	20056.07	52245.88	0.0686	P	2.8

y = 3.4174E-006 * x + 5.4232E-005
R = 1.0000
DL = 31.59
BEC = 15.87

Weight: <None>
Min Conc: <None>

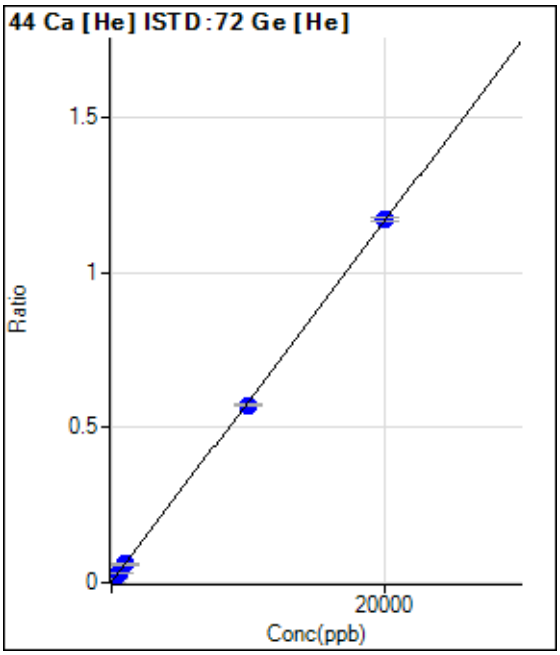
Calibration for 227_ICV.d



	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>

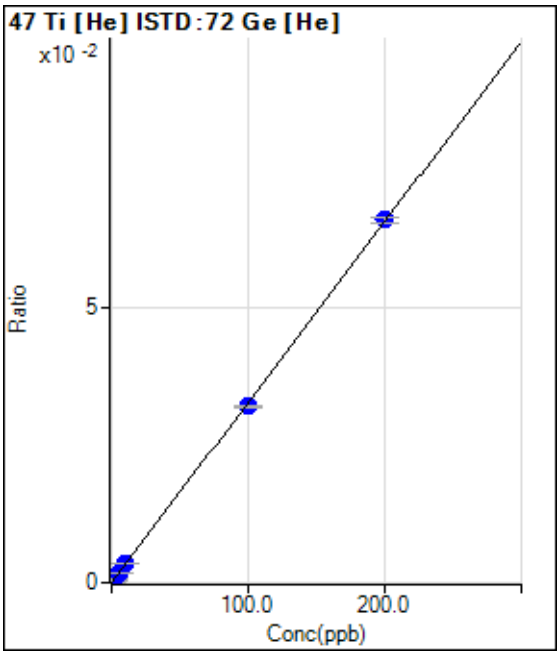


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	833.37	0.0010	P	4.9
2	☐	200.000	199.520	10180.62	0.0127	P	5.3
3	☐	500.000	510.692	24435.51	0.0308	P	1.4
4	☐	1000.000	1003.367	47054.25	0.0595	P	2.3
5	☐	10000.00	9822.486	449899.33	0.5732	P	0.8
6	☐	20000.00	20088.32	892154.34	1.1712	P	1.1

y = 5.8248E-005 * x + 0.0010
R = 0.9999
DL = 2.653
BEC = 17.97

Weight: <None>
Min Conc: <None>

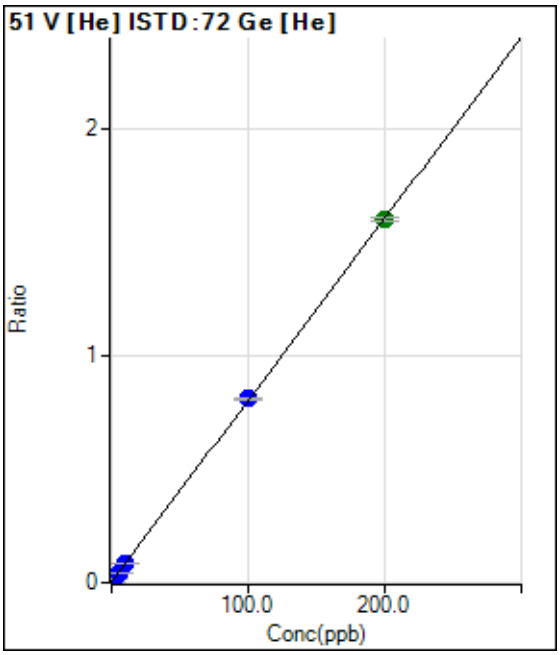
Calibration for 227_ICV.d



	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>

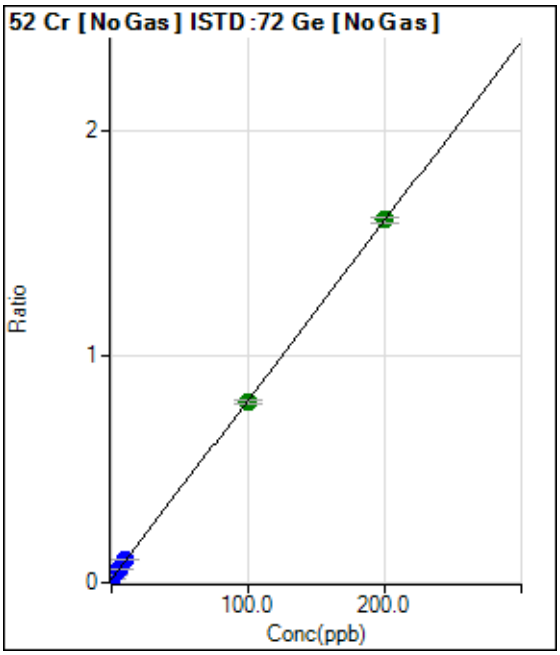


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2656.94	0.0033	P	2.8
2	☐	2.000	1.933	15125.05	0.0188	P	1.0
3	☐	5.000	5.102	35078.06	0.0442	P	1.1
4	☐	10.000	10.249	67561.11	0.0854	P	0.6
5	☐	100.000	101.080	638092.51	0.8130	P	1.1
6	☐	200.000	199.446	1219622.69	1.6009	A	1.2

y = 0.0080 * x + 0.0033
R = 1.0000
DL = 0.03535
BEC = 0.4168

Weight: <None>
Min Conc: <None>

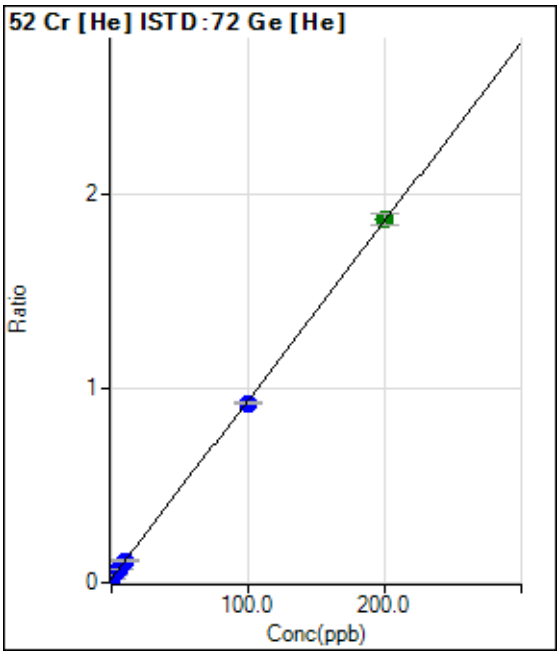
Calibration for 227_ICV.d



	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>

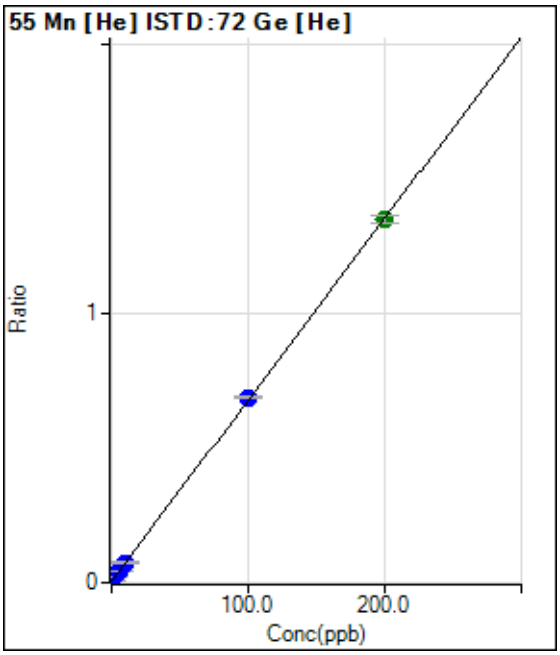


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15702.59	0.0197	P	5.3
2	☐	2.000	1.895	29889.71	0.0372	P	3.1
3	☐	5.000	5.271	54187.34	0.0683	P	1.4
4	☐	10.000	10.218	90051.44	0.1139	P	0.4
5	☐	100.000	98.407	727032.51	0.9264	P	1.3
6	☐	200.000	200.780	1424028.68	1.8695	A	3.1

y = 0.0092 * x + 0.0197
R = 1.0000
DL = 0.3416
BEC = 2.142

Weight: <None>
Min Conc: <None>

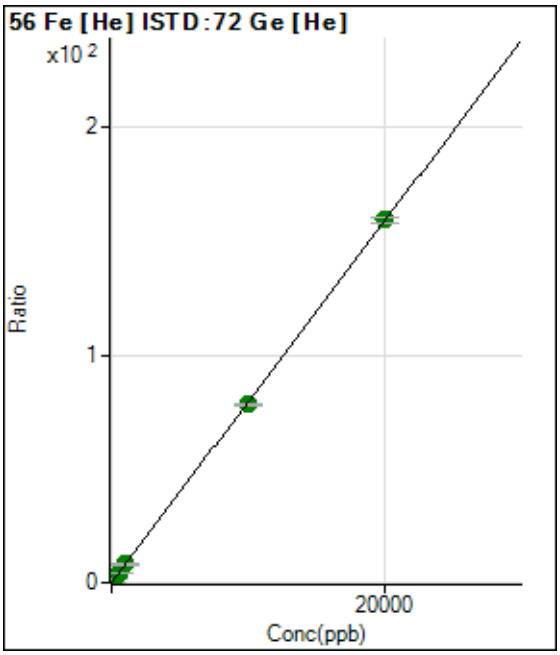
Calibration for 227_ICV.d



	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>

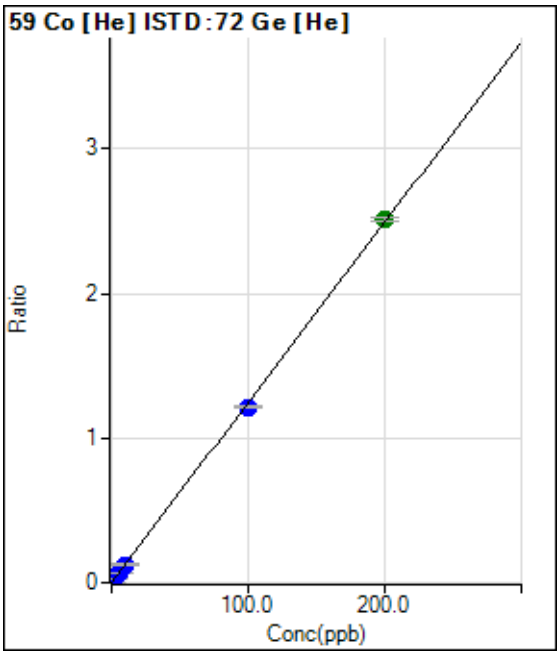


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	24957.34	0.0314	P	5.7
2	☐	200.000	205.356	1336061.90	1.6624	A	2.9
3	☐	500.000	514.277	3265969.33	4.1160	A	1.7
4	☐	1000.000	1014.201	6394429.70	8.0866	A	2.0
5	☐	10000.00	9848.696	61416119.08	78.2543	A	1.4
6	☐	20000.00	20074.53	121480078.1	159.472	A	1.9

y = 0.0079 * x + 0.0314
R = 1.0000
DL = 0.6755
BEC = 3.947

Weight: <None>
Min Conc: <None>

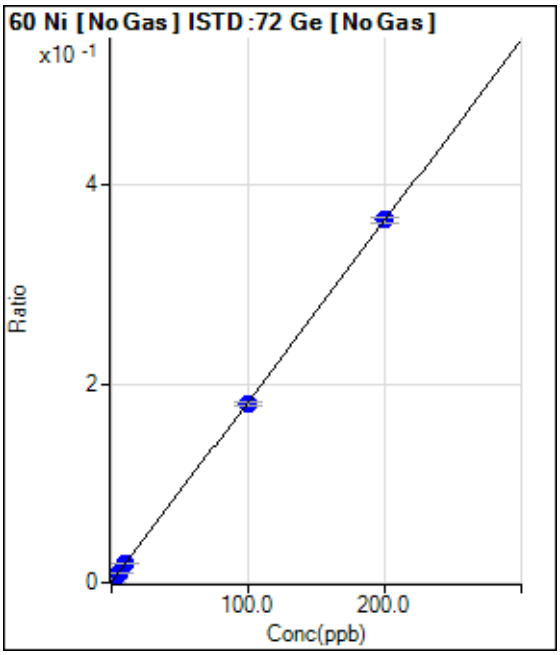
Calibration for 227_ICV.d



	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>

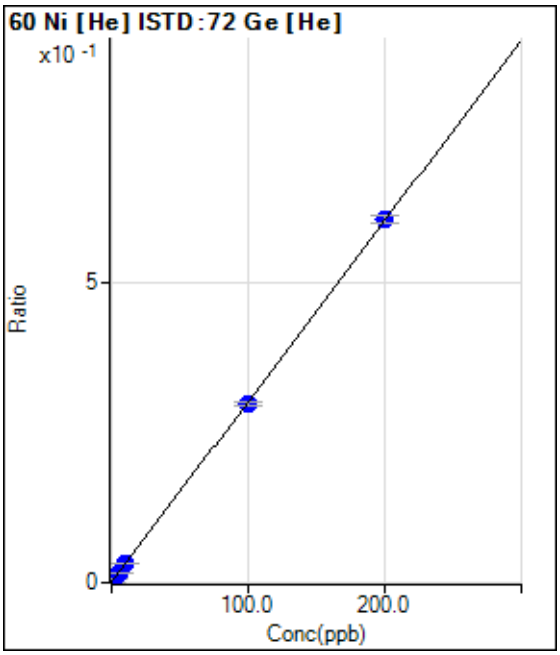


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	940.05	0.0003	P	7.1
2	☐	2.000	1.986	11184.75	0.0039	P	4.1
3	☐	5.000	5.151	27588.40	0.0097	P	1.1
4	☐	10.000	10.469	54572.83	0.0194	P	3.9
5	☐	100.000	99.018	508504.03	0.1807	P	2.2
6	☐	200.000	200.464	995782.07	0.3654	P	1.8

y = 0.0018 * x + 3.2901E-004
R = 1.0000
DL = 0.03873
BEC = 0.1806

Weight: <None>
Min Conc: <None>

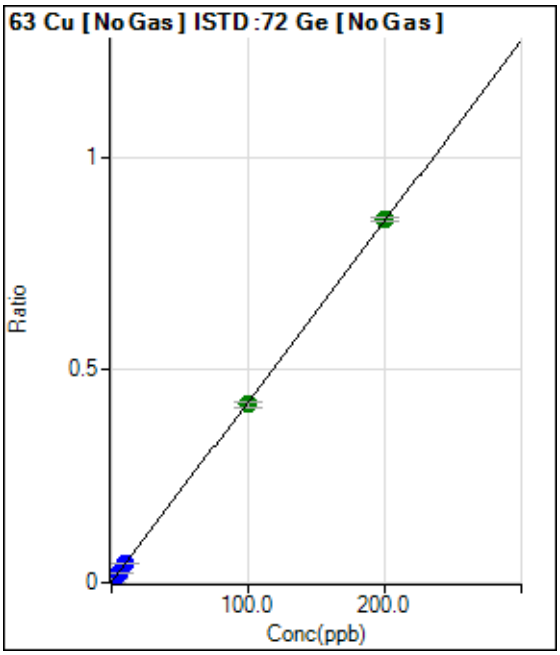
Calibration for 227_ICV.d



	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>

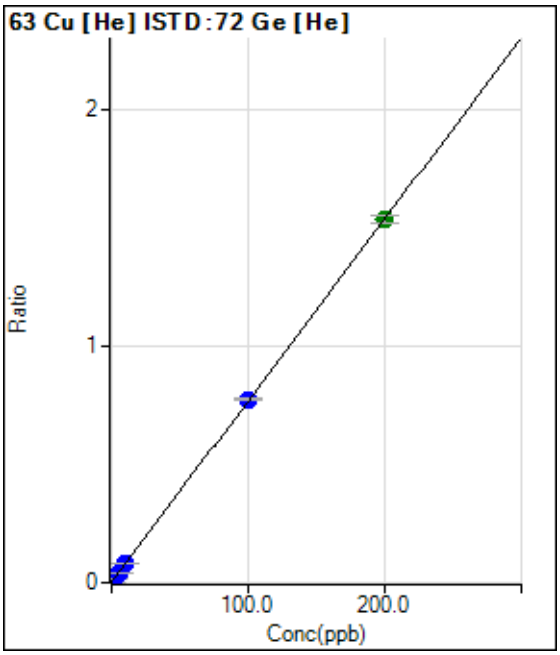


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2253.57	0.0008	P	7.1
2	☐	2.000	2.073	27167.44	0.0096	P	0.0
3	☐	5.000	5.285	65933.09	0.0232	P	0.6
4	☐	10.000	10.706	130010.20	0.0462	P	2.4
5	☐	100.000	98.484	1177746.15	0.4185	A	3.4
6	☐	200.000	200.715	2322147.78	0.8522	A	1.0

y = 0.0042 * x + 7.8923E-004
R = 0.9999
DL = 0.03961
BEC = 0.1861

Weight: <None>
Min Conc: <None>

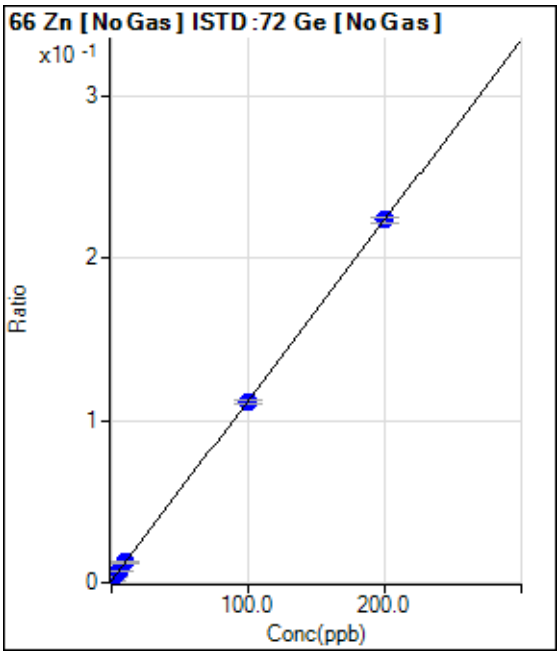
Calibration for 227_ICV.d



	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>

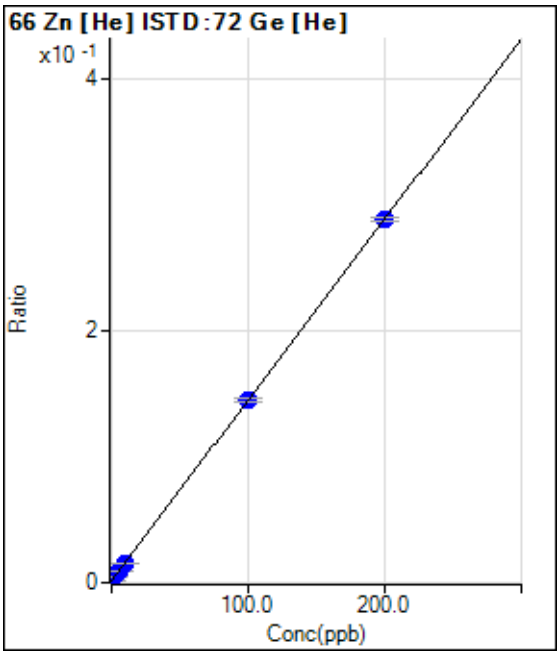


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3147.08	0.0011	P	2.1
2	☐	2.000	2.072	9643.64	0.0034	P	3.5
3	☐	5.000	5.330	19938.25	0.0070	P	3.9
4	☐	10.000	10.299	35276.18	0.0125	P	1.7
5	☐	100.000	99.642	314415.09	0.1117	P	2.2
6	☐	200.000	200.155	608448.41	0.2233	P	1.6

y = 0.0011 * x + 0.0011
R = 1.0000
DL = 0.06144
BEC = 0.9928

Weight: <None>
Min Conc: <None>

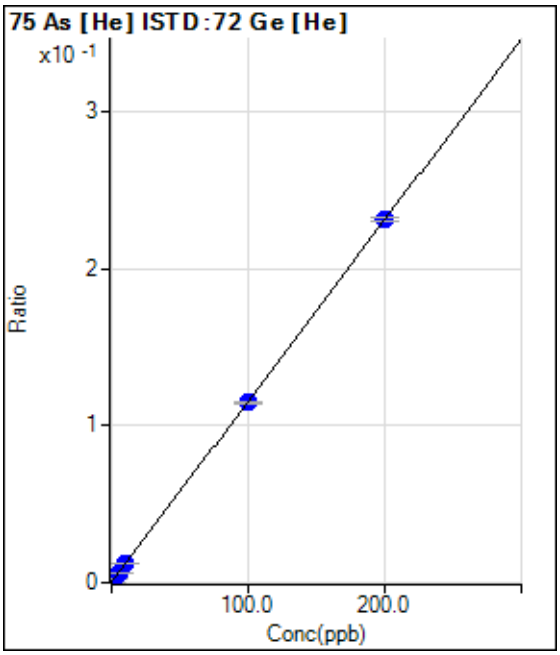
Calibration for 227_ICV.d



	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>

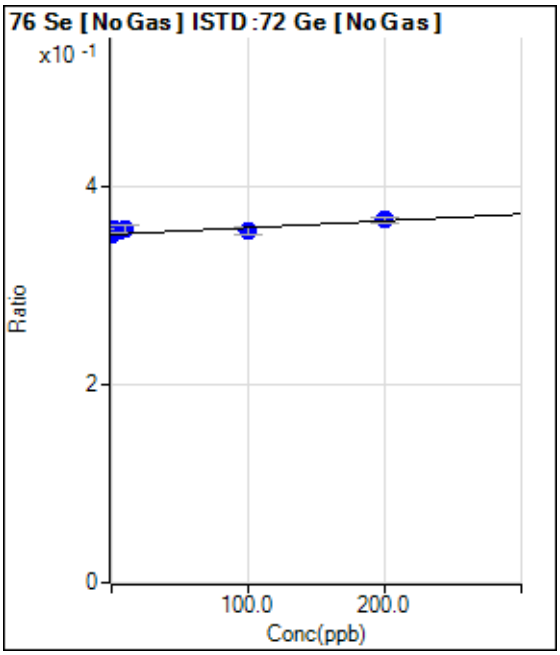


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	224.45	0.0003	P	17.1
2	☐	2.000	1.978	2059.06	0.0026	P	3.9
3	☐	5.000	4.915	4720.85	0.0059	P	2.6
4	☐	10.000	9.997	9338.83	0.0118	P	0.7
5	☐	100.000	99.547	90314.29	0.1151	P	1.2
6	☐	200.000	200.229	176105.03	0.2312	P	1.0

y = 0.0012 * x + 2.8181E-004
R = 1.0000
DL = 0.1251
BEC = 0.2444

Weight: <None>
Min Conc: <None>

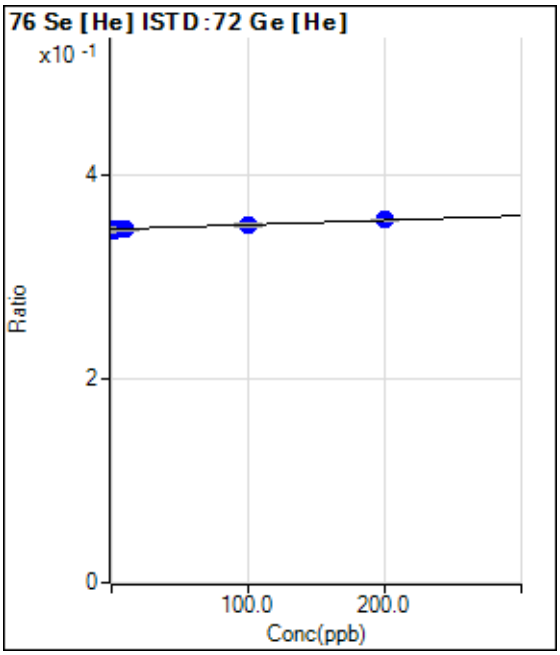
Calibration for 227_ICV.d



	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>

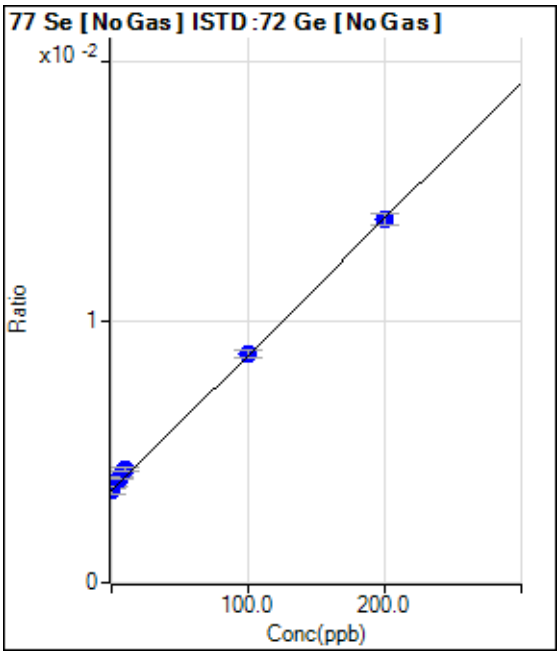


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	276601.14	0.3475	P	0.4
2	☐	2.000	-26.698	278313.08	0.3463	P	0.6
3	☐	5.000	-2.378	275638.00	0.3474	P	1.4
4	☐	10.000	-2.256	274707.41	0.3474	P	0.3
5	☐	100.000	89.781	275829.94	0.3514	P	0.9
6	☐	200.000	206.193	271653.36	0.3566	P	0.6

y = 4.4227E-005 * x + 0.3475
R = 0.9939
DL = 101.3
BEC = 7857

Weight: <None>
Min Conc: <None>

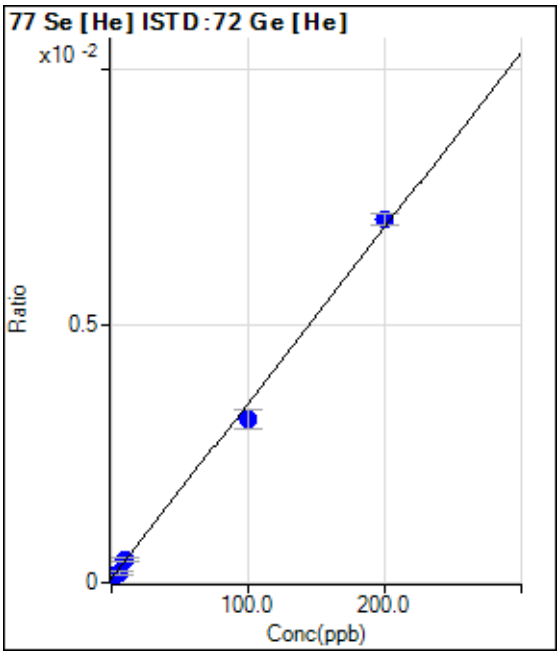
Calibration for 227_ICV.d



	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>

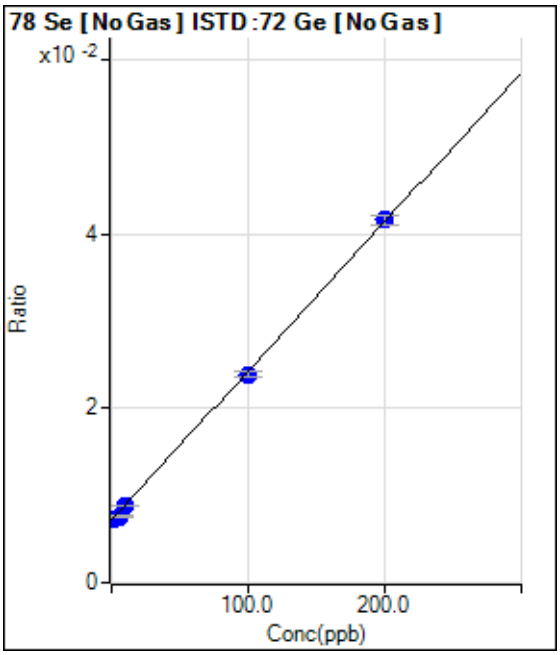


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0001	P	52.1
2	☐	2.000	2.291	130.00	0.0002	P	23.0
3	☐	5.000	2.967	146.67	0.0002	P	23.8
4	☐	10.000	11.000	363.34	0.0005	P	18.5
5	☐	100.000	91.068	2503.61	0.0032	P	12.0
6	☐	200.000	204.464	5381.17	0.0071	P	3.4

y = 3.4132E-005 * x + 8.3512E-005
R = 0.9986
DL = 3.828
BEC = 2.447

Weight: <None>
Min Conc: <None>

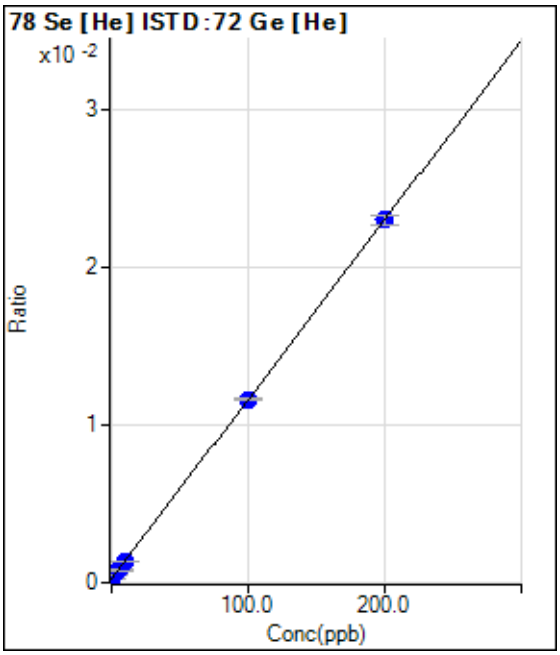
Calibration for 227_ICV.d



	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>

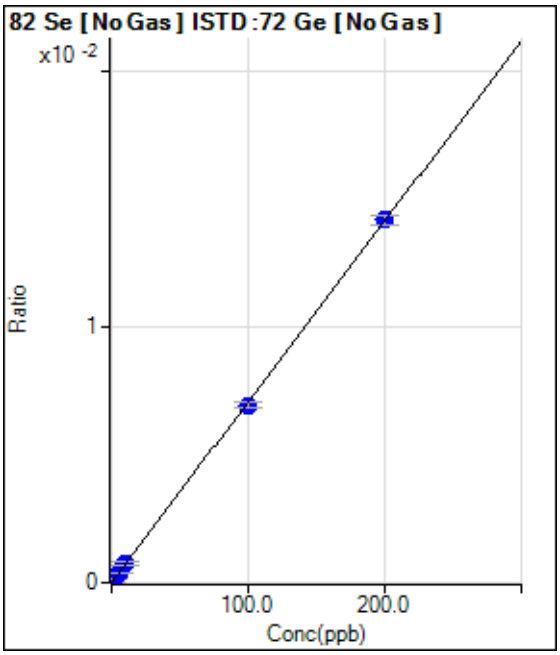


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	189.33	0.0002	P	3.9
2	☐	2.000	2.024	376.01	0.0005	P	2.8
3	☐	5.000	4.931	633.35	0.0008	P	7.7
4	☐	10.000	9.564	1047.38	0.0013	P	2.8
5	☐	100.000	99.906	9096.43	0.0116	P	0.8
6	☐	200.000	200.070	17496.02	0.0230	P	2.5

y = 1.1362E-004 * x + 2.3788E-004
R = 1.0000
DL = 0.2462
BEC = 2.094

Weight: <None>
Min Conc: <None>

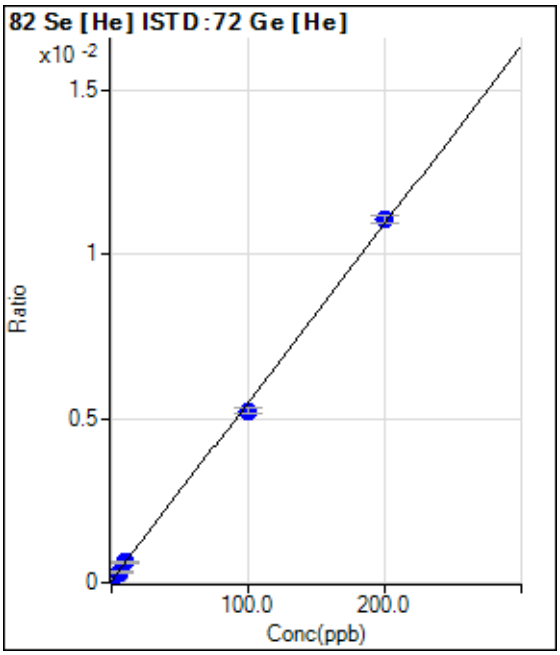
Calibration for 227_ICV.d



	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>

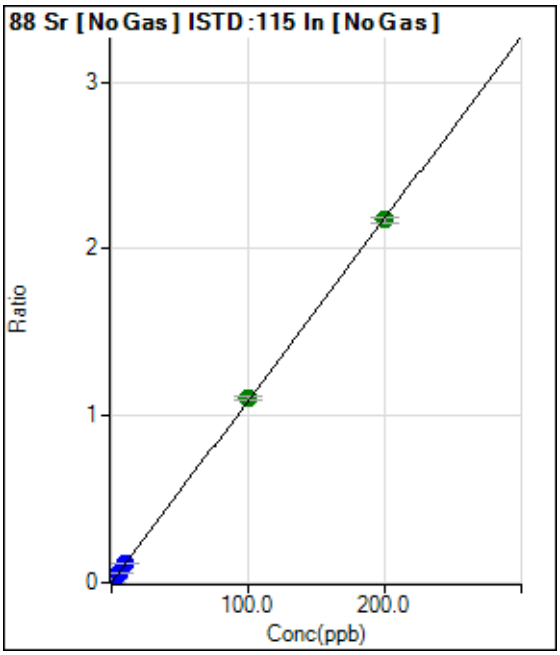


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0001	P	0.9
2	☐	2.000	1.669	123.33	0.0002	P	19.2
3	☐	5.000	4.641	250.01	0.0003	P	8.2
4	☐	10.000	10.244	490.02	0.0006	P	9.6
5	☐	100.000	95.325	4117.37	0.0052	P	3.3
6	☐	200.000	202.338	8429.42	0.0111	P	2.3

y = 5.4365E-005 * x + 6.2815E-005
R = 0.9996
DL = 0.02989
BEC = 1.155

Weight: <None>
Min Conc: <None>

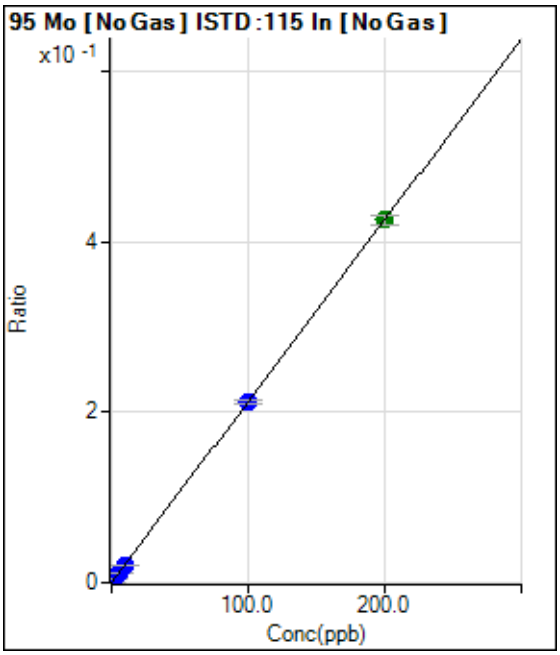
Calibration for 227_ICV.d



	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>

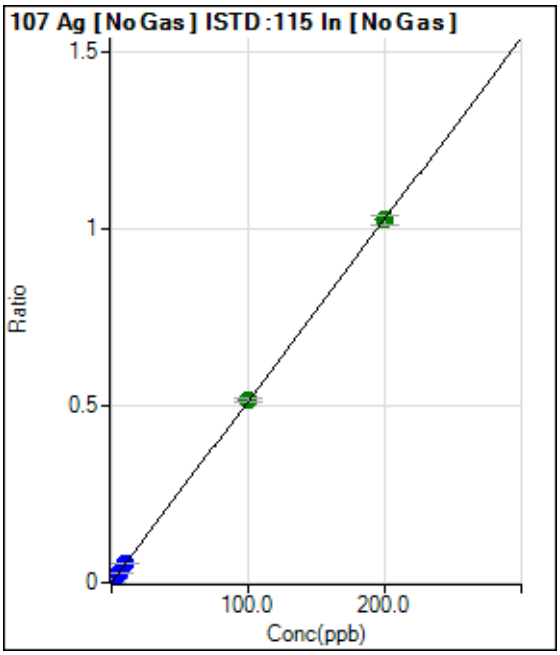


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	223.34	0.0001	P	11.6
2	☐	2.000	1.965	13967.72	0.0042	P	2.0
3	☐	5.000	5.029	34832.61	0.0108	P	3.1
4	☐	10.000	9.692	68365.44	0.0207	P	0.7
5	☐	100.000	99.719	673558.97	0.2122	P	2.5
6	☐	200.000	200.156	1333725.97	0.4259	A	2.4

y = 0.0021 * x + 6.8140E-005
R = 1.0000
DL = 0.01111
BEC = 0.03203

Weight: <None>
Min Conc: <None>

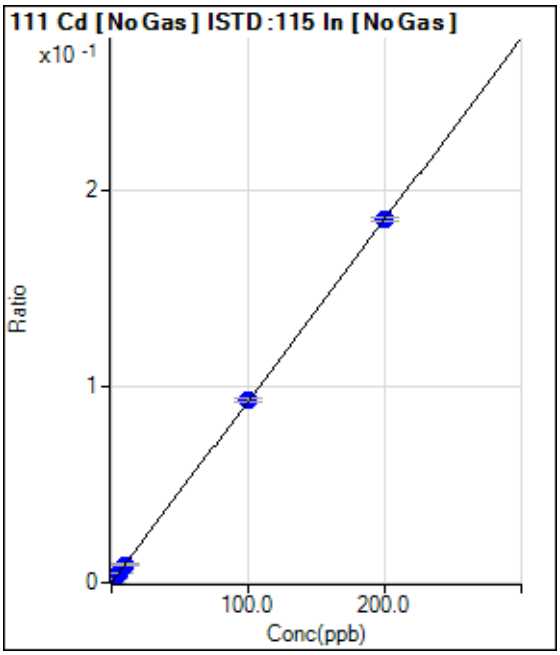
Calibration for 227_ICV.d



	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>

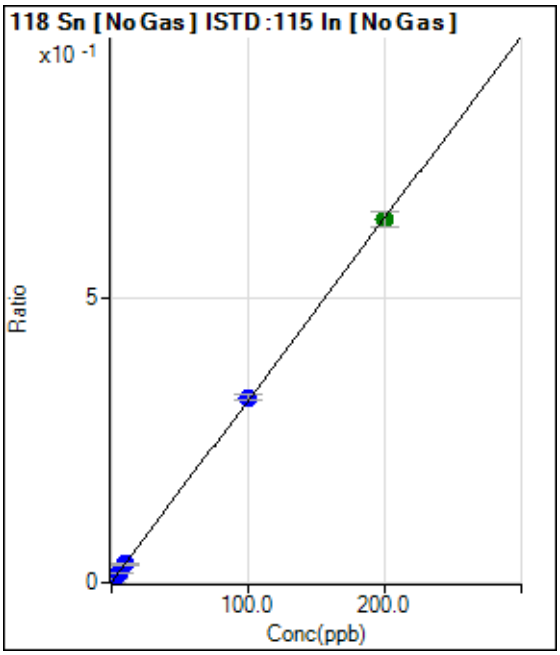


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-4.06	0.0000	P	-142.0
2	☐	2.000	1.940	5896.80	0.0018	P	1.1
3	☐	5.000	5.063	15146.88	0.0047	P	5.1
4	☐	10.000	9.981	30502.44	0.0092	P	5.4
5	☐	100.000	100.286	294428.43	0.0928	P	2.1
6	☐	200.000	199.857	579036.56	0.1849	P	1.1

y = 9.2499E-004 * x - 1.2384E-006
R = 1.0000
DL = 0.005705
BEC = -0.001339

Weight: <None>
Min Conc: <None>

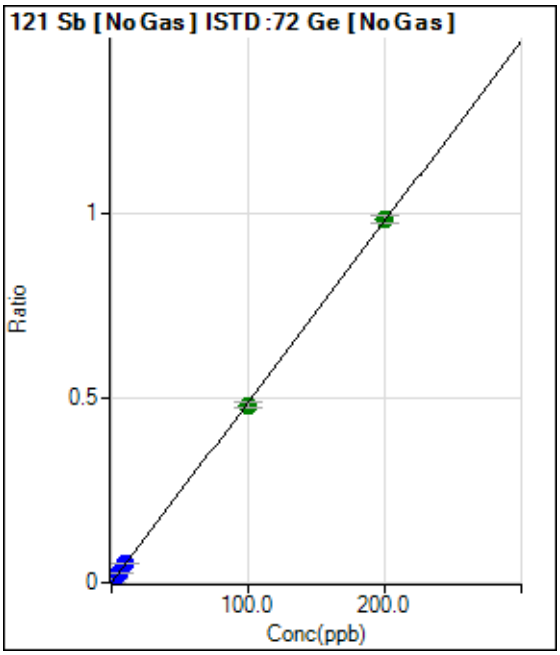
Calibration for 227_ICV.d



	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>

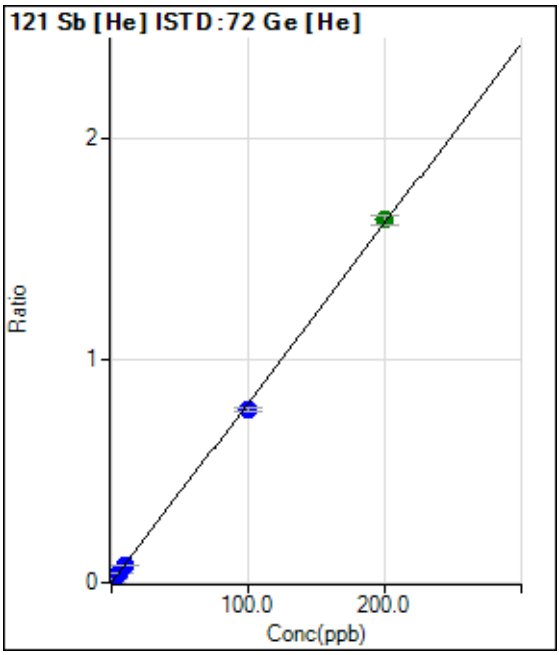


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	436.68	0.0002	P	25.3
2	☐	2.000	2.001	28230.80	0.0100	P	2.1
3	☐	5.000	5.122	71736.01	0.0253	P	3.2
4	☐	10.000	10.257	141884.51	0.0504	P	1.6
5	☐	100.000	98.257	1355460.45	0.4817	A	3.2
6	☐	200.000	200.856	2682491.31	0.9845	A	2.0

y = 0.0049 * x + 1.5263E-004
R = 0.9999
DL = 0.02365
BEC = 0.03114

Weight: <None>
Min Conc: <None>

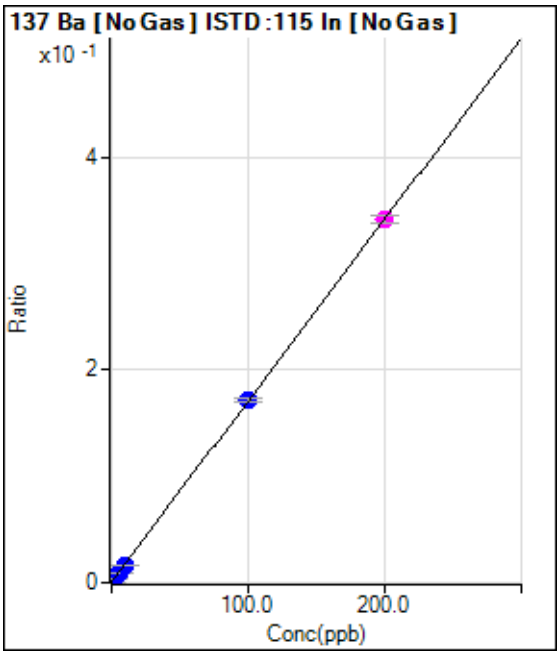
Calibration for 227_ICV.d



	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>

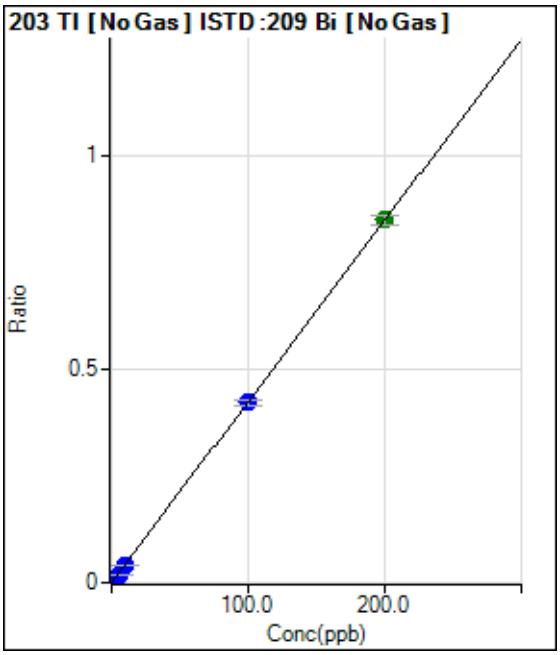


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1876.84	0.0006	P	12.3
2	☐	2.000	1.865	12319.39	0.0037	P	3.5
3	☐	5.000	4.912	28922.62	0.0089	P	2.1
4	☐	10.000	9.602	55927.32	0.0169	P	2.2
5	☐	100.000	100.346	544301.68	0.1715	P	2.4
6	☐	200.000	199.850	1067894.75	0.3410	M	2.1

y = 0.0017 * x + 5.7247E-004
R = 1.0000
DL = 0.1245
BEC = 0.3361

Weight: <None>
Min Conc: <None>

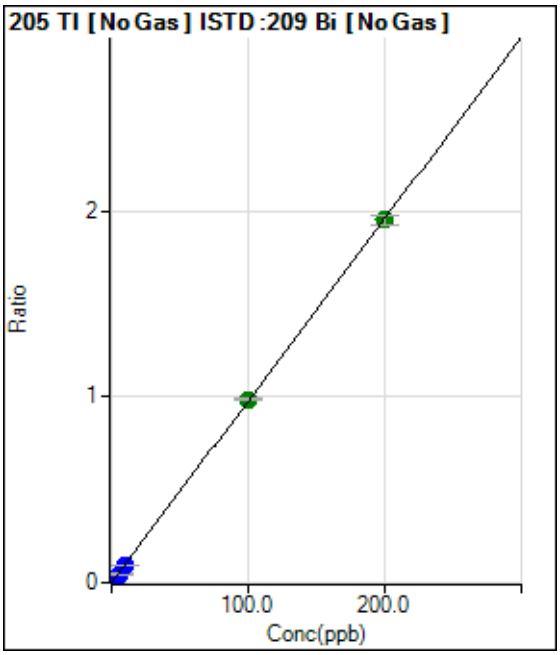
Calibration for 227_ICV.d



	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>

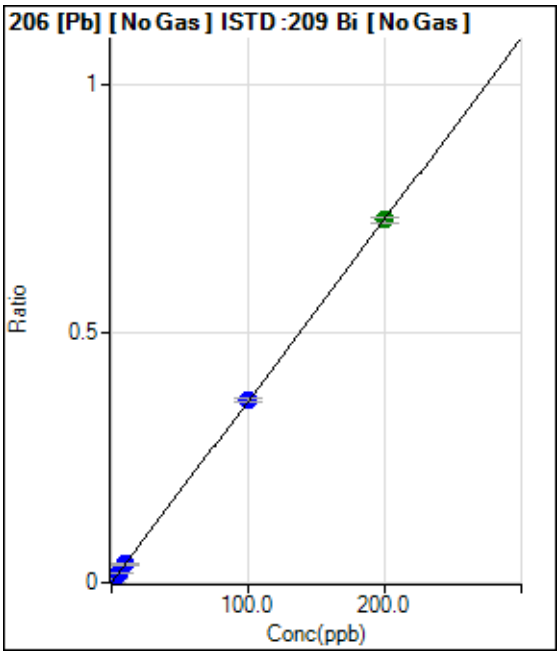


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	240.01	0.0001	P	24.1
2	☐	2.000	1.834	46687.65	0.0180	P	2.0
3	☐	5.000	4.725	118061.95	0.0463	P	3.2
4	☐	10.000	9.531	238294.43	0.0934	P	2.4
5	☐	100.000	100.910	2467135.69	0.9875	A	0.5
6	☐	200.000	199.577	4762115.14	1.9530	A	2.4

y = 0.0098 * x + 9.4897E-005
R = 1.0000
DL = 0.00701
BEC = 0.009698

Weight: <None>
Min Conc: <None>

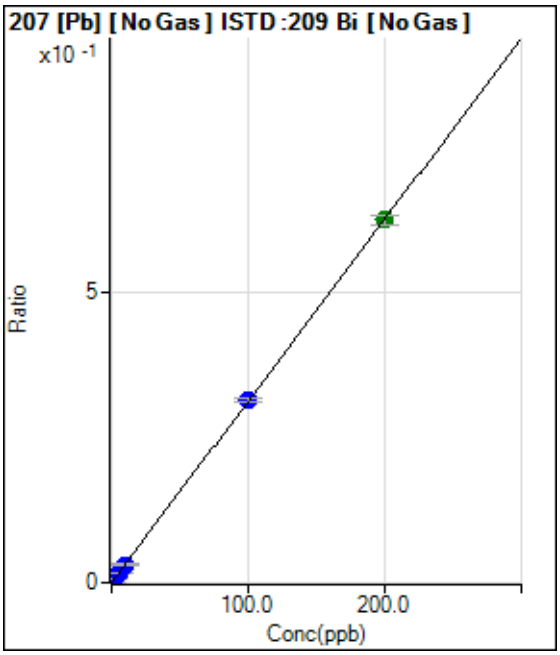
Calibration for 227_ICV.d



	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

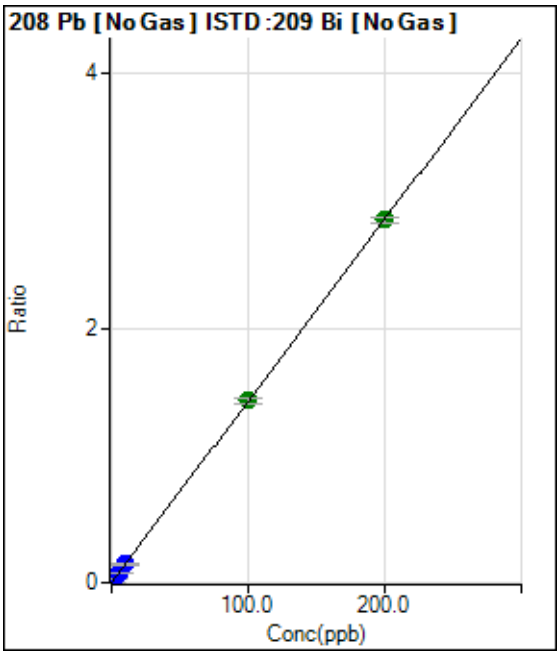
Weight: <None>
Min Conc: <None>



	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

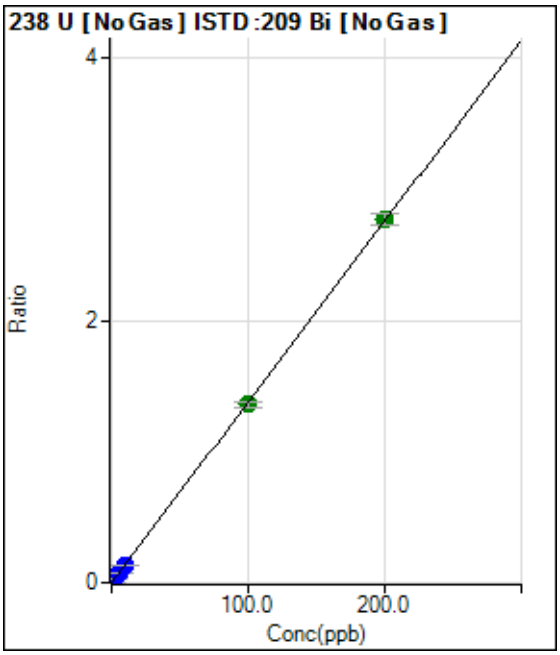
Weight: <None>
Min Conc: <None>



	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>

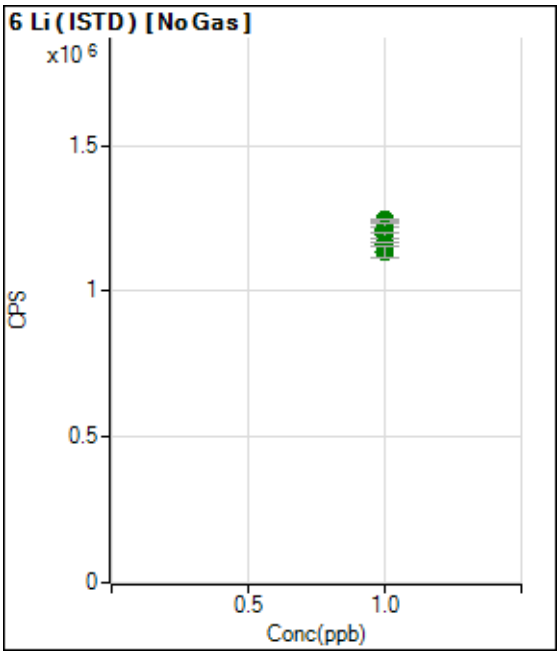


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	113.0
2	☐	2.000	1.942	69259.10	0.0268	P	2.0
3	☐	5.000	5.034	176707.01	0.0693	P	2.8
4	☐	10.000	9.916	348640.49	0.1366	P	2.6
5	☐	100.000	98.479	3387908.18	1.3565	A	2.5
6	☐	200.000	200.764	6742834.28	2.7654	A	3.1

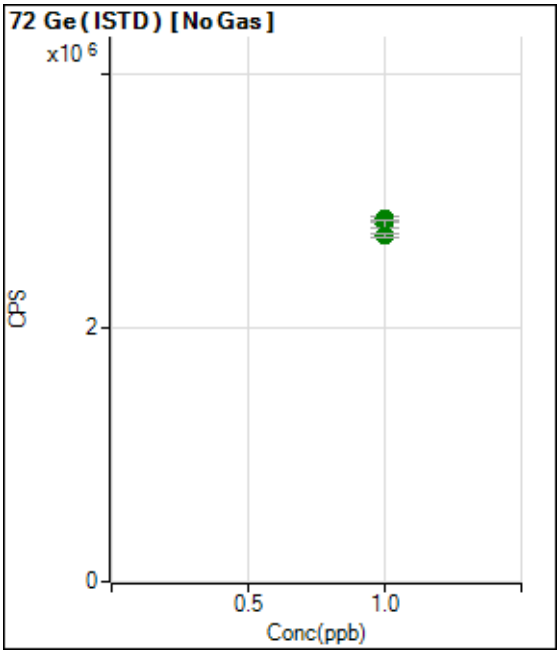
y = 0.0138 * x + 5.1535E-006
R = 1.0000
DL = 0.001269
BEC = 0.0003741

Weight: <None>
Min Conc: <None>

Calibration for 227_ICV.d

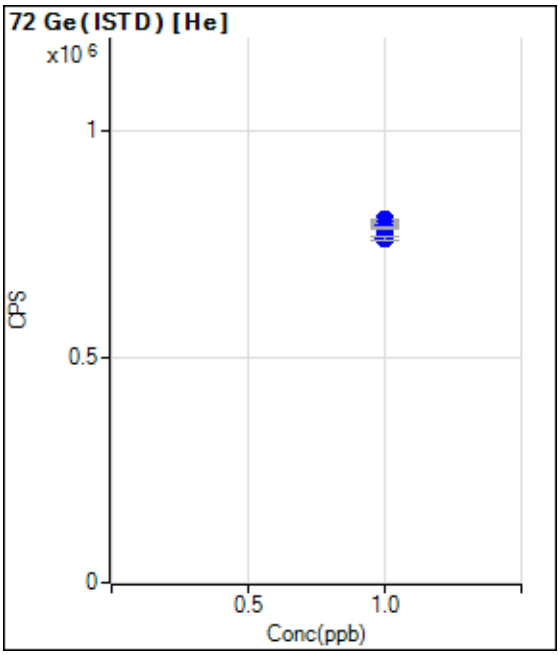


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1244630.60		A	0.8
2	☐	1.000		1209753.32		A	1.8
3	☐	1.000		1216494.10		A	2.8
4	☐	1.000		1192743.53		A	1.5
5	☐	1.000		1160770.06		A	1.0
6	☐	1.000		1133969.27		A	3.3

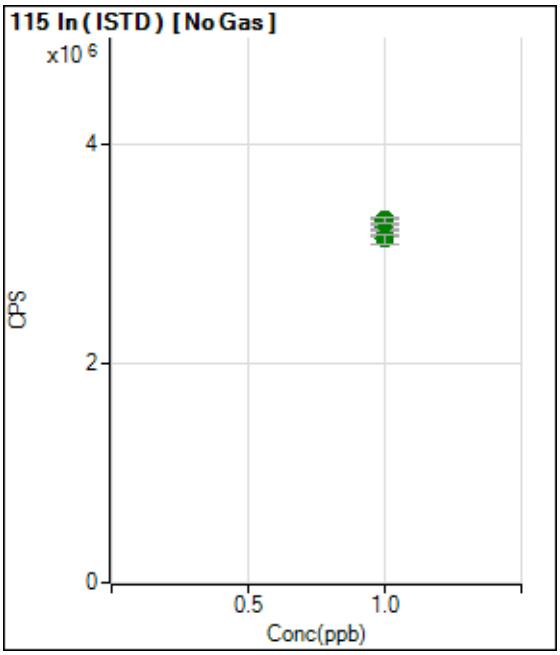


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2855672.36		A	1.2
2	☐	1.000		2834519.86		A	0.1
3	☐	1.000		2840963.19		A	0.6
4	☐	1.000		2814937.88		A	2.4
5	☐	1.000		2815300.38		A	2.2
6	☐	1.000		2724991.73		A	0.6

Calibration for 227_ICV.d

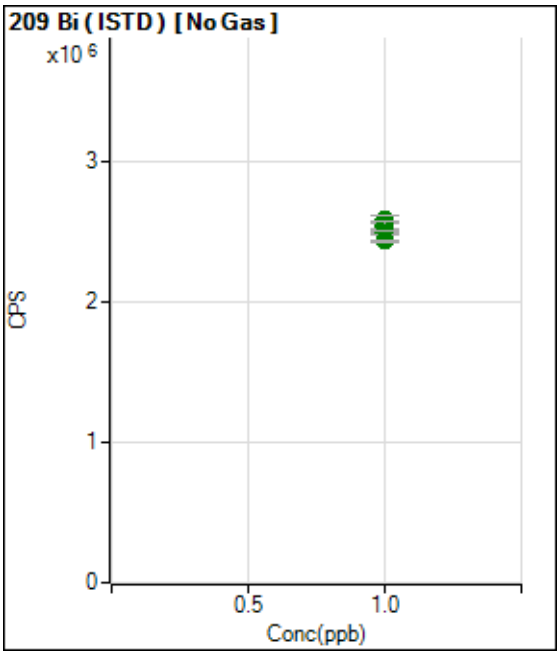


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		796033.43		P	0.9
2	☐	1.000		803706.60		P	0.5
3	☐	1.000		793506.21		P	0.2
4	☐	1.000		790827.46		P	1.0
5	☐	1.000		784880.74		P	0.8
6	☐	1.000		761833.08		P	1.1



	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



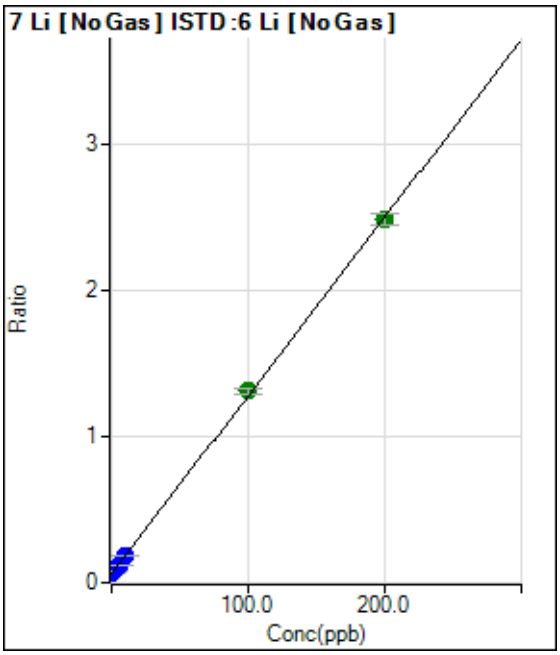
	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2537706.94		A	2.6
2	☐	1.000		2588927.46		A	2.1
3	☐	1.000		2549131.94		A	1.5
4	☐	1.000		2553256.42		A	2.1
5	☐	1.000		2498199.13		A	1.6
6	☐	1.000		2438612.41		A	0.7

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

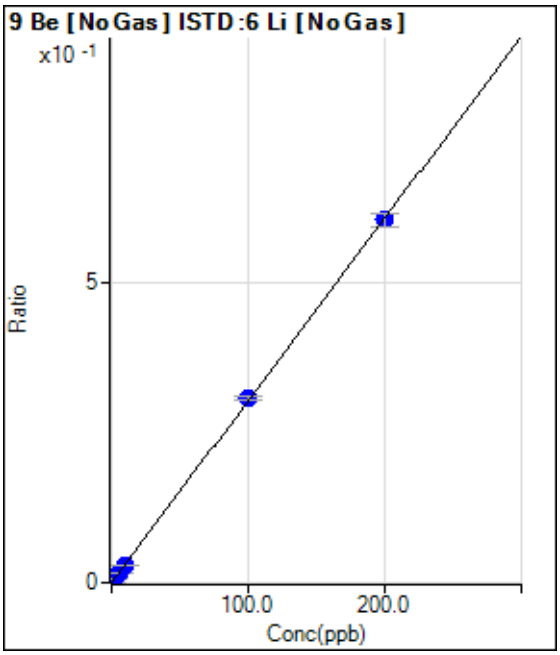
Calibration for 023_ICV.d



	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>

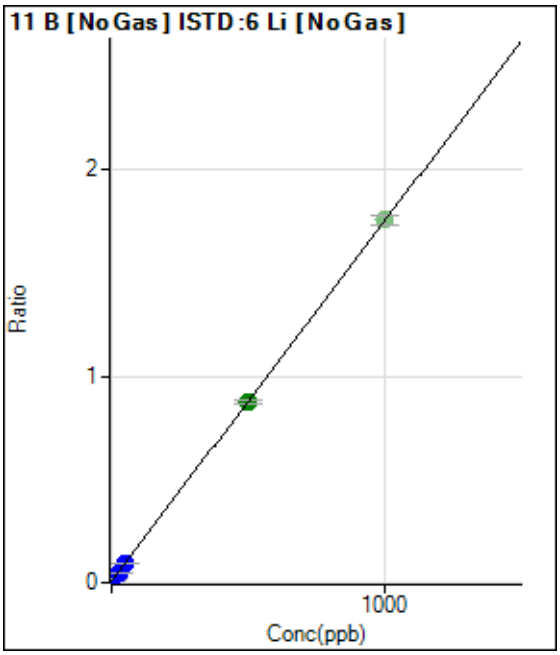


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	114.1
2	☐	2.000	1.912	6636.60	0.0058	P	3.5
3	☐	5.000	4.932	17110.48	0.0150	P	2.8
4	☐	10.000	9.739	34009.32	0.0296	P	1.3
5	☐	100.000	101.403	340017.80	0.3077	P	2.5
6	☐	200.000	199.314	665113.38	0.6048	P	3.5

y = 0.0030 * x + 5.9368E-006
R = 1.0000
DL = 0.006698
BEC = 0.001957

Weight: <None>
Min Conc: <None>

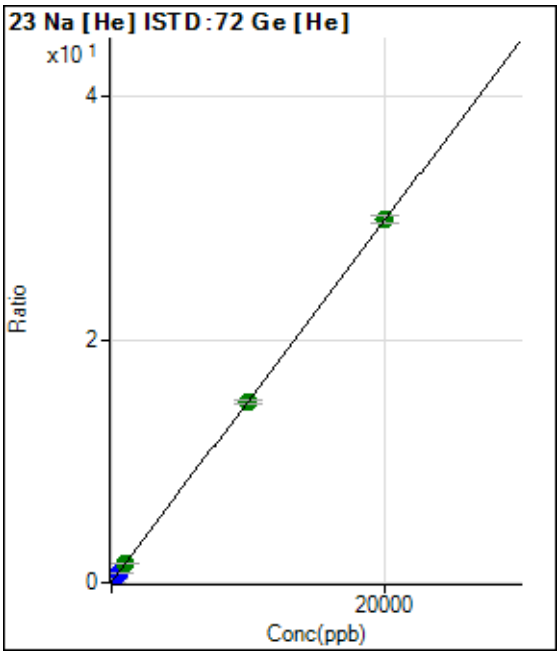
Calibration for 023_ICV.d



	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>

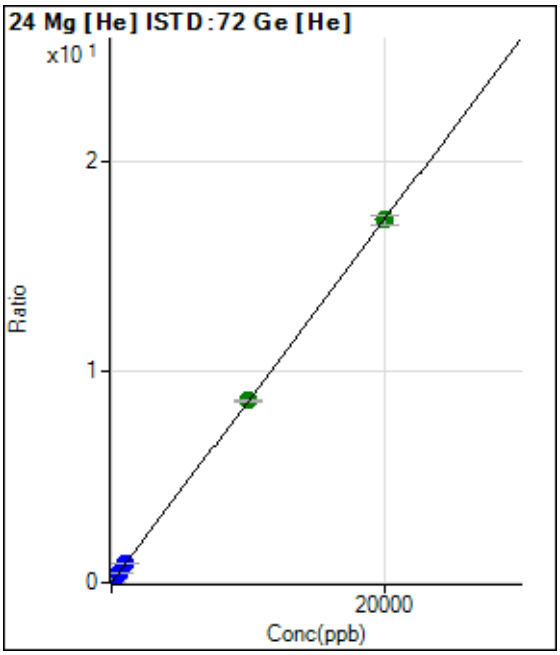


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48474.38	0.0641	P	2.7
2	☐	200.000	210.951	283466.29	0.3778	P	2.1
3	☐	500.000	529.274	646715.29	0.8513	P	2.0
4	☐	1000.000	1037.541	1209991.88	1.6073	A	1.3
5	☐	10000.00	9926.489	11136663.17	14.8284	A	2.4
6	☐	20000.00	20034.03	22225622.17	29.8620	A	2.0

y = 0.0015 * x + 0.0641
R = 1.0000
DL = 3.451
BEC = 43.07

Weight: <None>
Min Conc: <None>

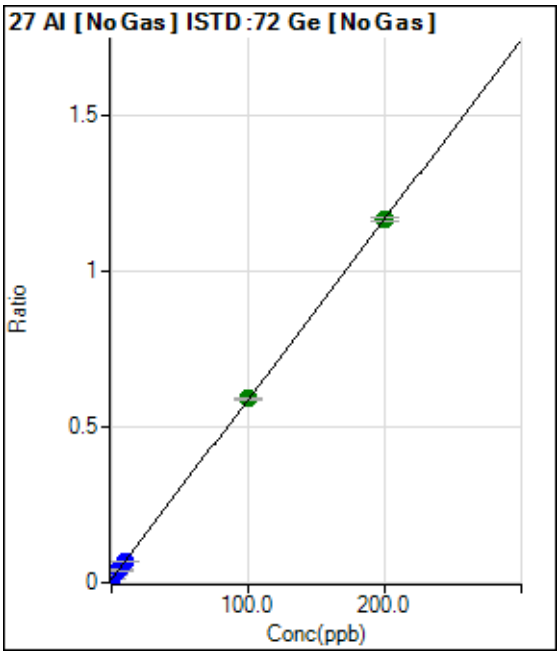
Calibration for 023_ICV.d



	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>

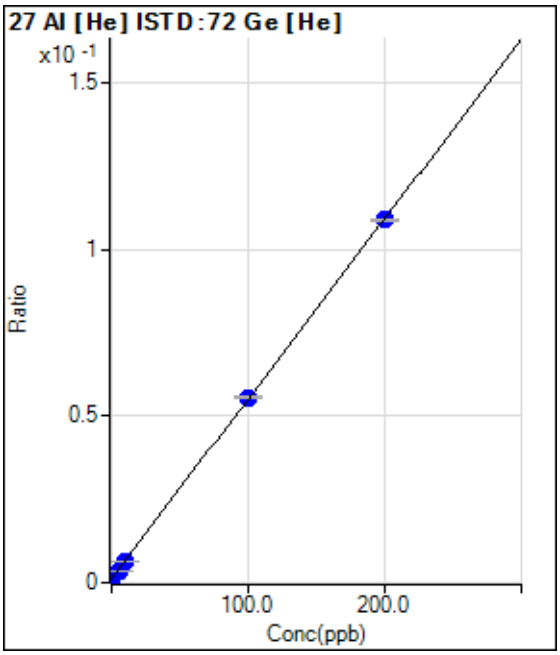


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28756.75	0.0107	P	2.5
2	☐	2.000	1.940	58345.64	0.0219	P	0.4
3	☐	5.000	5.091	107442.46	0.0401	P	1.1
4	☐	10.000	10.245	185919.31	0.0699	P	1.6
5	☐	100.000	100.423	1565039.98	0.5905	A	1.4
6	☐	200.000	199.775	3045011.31	1.1641	A	1.2

y = 0.0058 * x + 0.0107
R = 1.0000
DL = 0.1398
BEC = 1.858

Weight: <None>
Min Conc: <None>

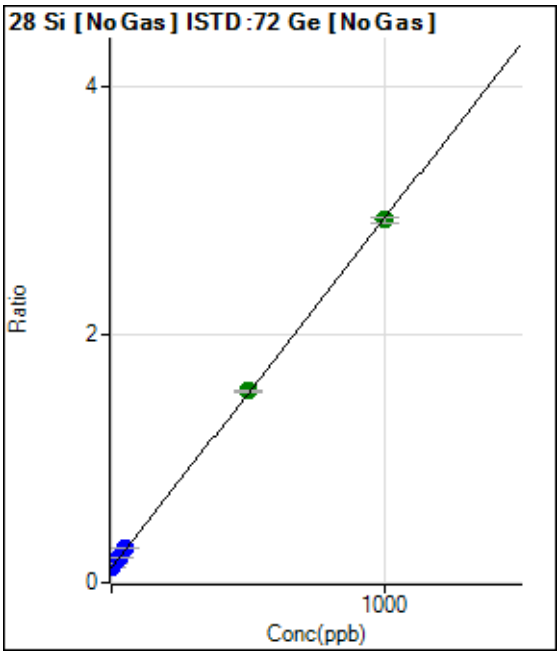
Calibration for 023_ICV.d



	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>

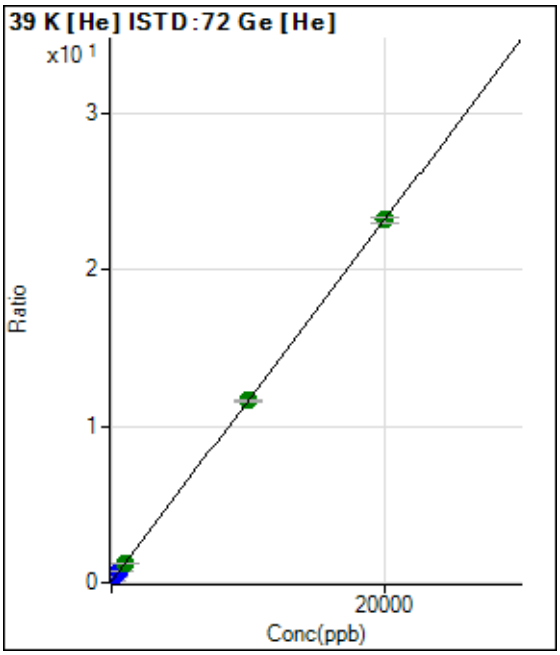


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	317248.29	0.1183	P	1.5
2	☐	10.000	11.983	404870.24	0.1521	P	1.6
3	☐	25.000	30.217	545441.88	0.2036	P	4.6
4	☐	50.000	55.495	731628.89	0.2750	P	1.7
5	☐	500.000	507.828	4112108.90	1.5516	A	1.0
6	☐	1000.000	995.661	7660509.47	2.9285	A	1.8

y = 0.0028 * x + 0.1183
R = 1.0000
DL = 1.884
BEC = 41.92

Weight: <None>
Min Conc: <None>

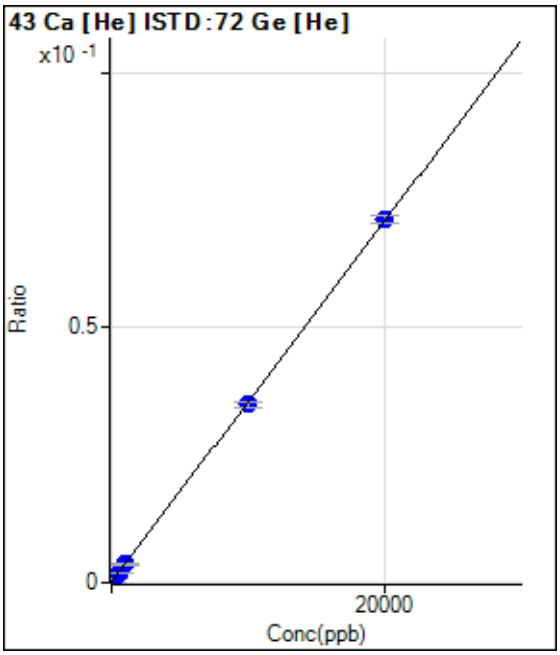
Calibration for 023_ICV.d



	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>

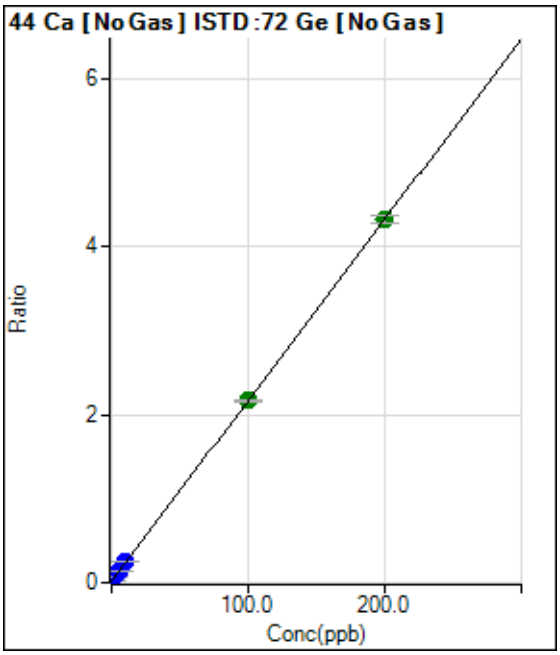


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0001	P	61.1
2	☐	200.000	208.390	603.36	0.0008	P	6.6
3	☐	500.000	485.412	1356.76	0.0018	P	3.9
4	☐	1000.000	995.093	2706.98	0.0036	P	7.6
5	☐	10000.00	9859.678	26282.14	0.0350	P	3.5
6	☐	20000.00	20070.68	52972.07	0.0712	P	2.1

y = 3.5430E-006 * x + 6.6229E-005
R = 1.0000
DL = 34.26
BEC = 18.69

Weight: <None>
Min Conc: <None>

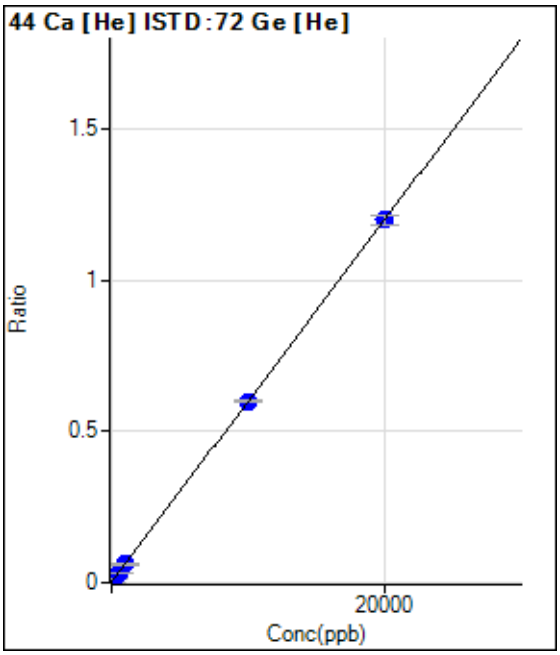
Calibration for 023_ICV.d



	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>

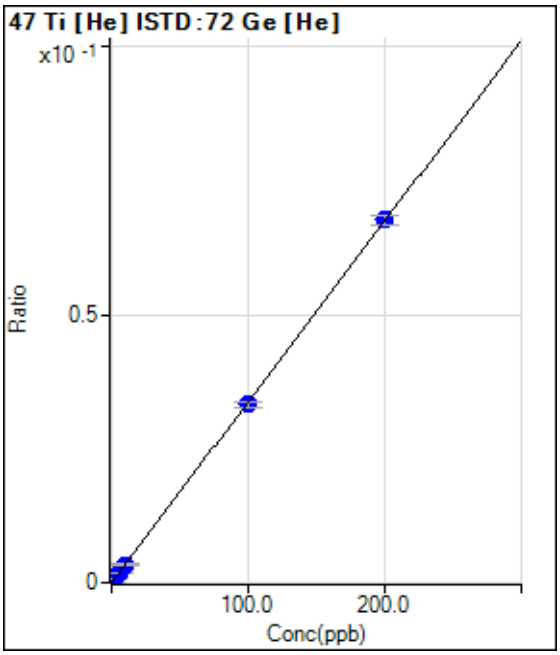


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	916.71	0.0012	P	5.2
2	☐	200.000	196.588	9733.58	0.0130	P	0.7
3	☐	500.000	481.181	22785.91	0.0300	P	3.7
4	☐	1000.000	998.158	45866.79	0.0609	P	2.3
5	☐	10000.00	9993.324	450020.42	0.5991	P	1.0
6	☐	20000.00	20003.93	891588.40	1.1980	P	2.8

y = 5.9829E-005 * x + 0.0012
R = 1.0000
DL = 3.152
BEC = 20.24

Weight: <None>
Min Conc: <None>

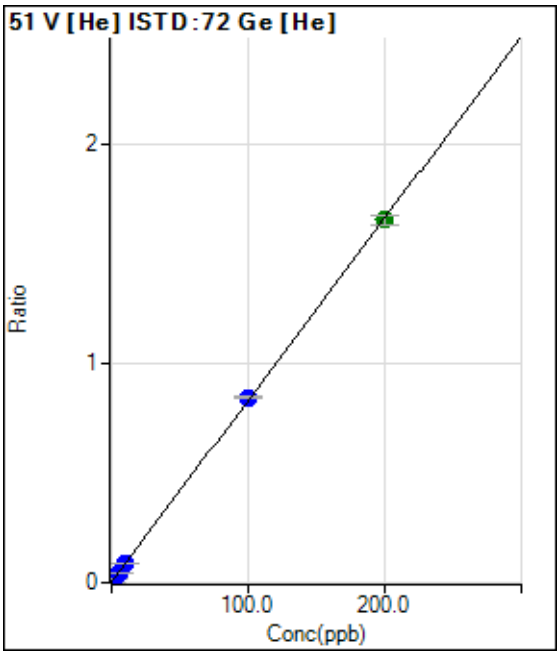
Calibration for 023_ICV.d



	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>

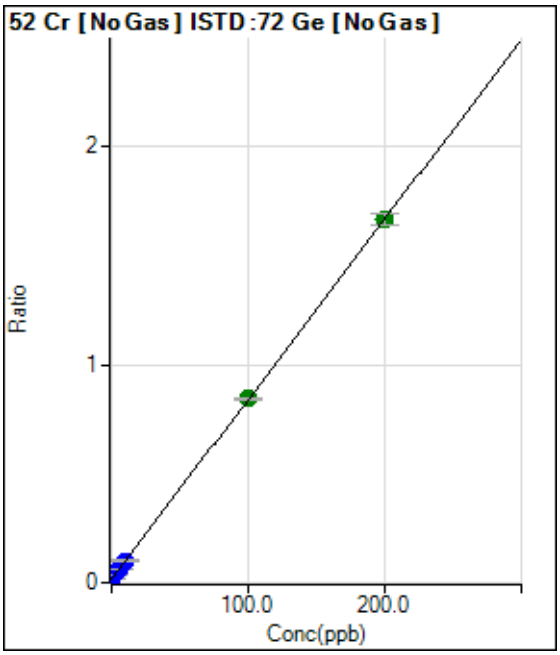


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2180.19	0.0029	P	3.3
2	☐	2.000	1.989	14541.08	0.0194	P	1.2
3	☐	5.000	4.978	33565.44	0.0442	P	2.3
4	☐	10.000	10.113	65339.37	0.0868	P	1.5
5	☐	100.000	101.551	635065.66	0.8455	P	1.1
6	☐	200.000	199.220	1232495.71	1.6559	A	2.7

y = 0.0083 * x + 0.0029
R = 1.0000
DL = 0.0348
BEC = 0.3472

Weight: <None>
Min Conc: <None>

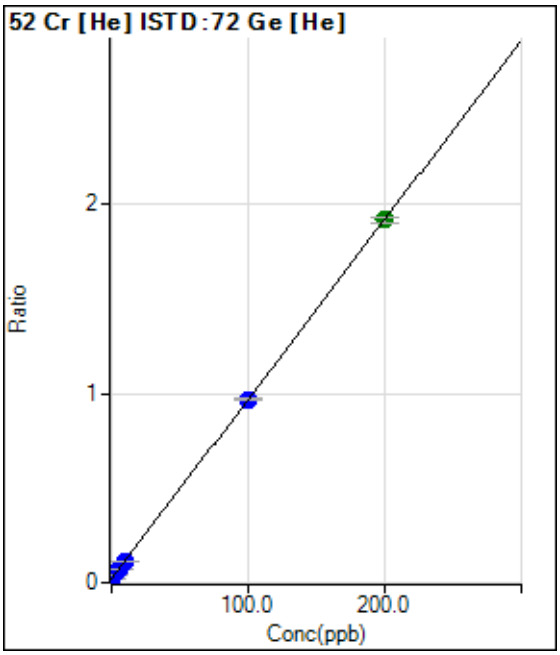
Calibration for 023_ICV.d



	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>

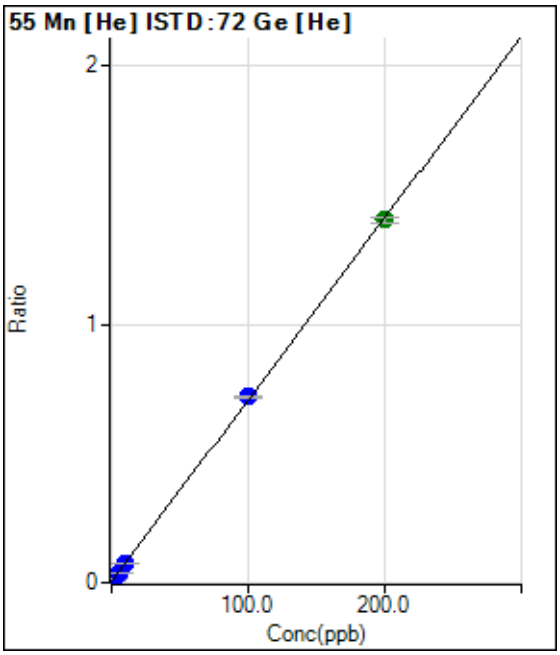


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15432.28	0.0204	P	0.9
2	☐	2.000	1.981	29388.37	0.0392	P	2.9
3	☐	5.000	5.124	52407.09	0.0690	P	2.7
4	☐	10.000	10.095	87438.53	0.1161	P	0.2
5	☐	100.000	100.051	728053.27	0.9693	P	1.2
6	☐	200.000	199.967	1426761.95	1.9169	A	1.5

y = 0.0095 * x + 0.0204
R = 1.0000
DL = 0.05912
BEC = 2.15

Weight: <None>
Min Conc: <None>

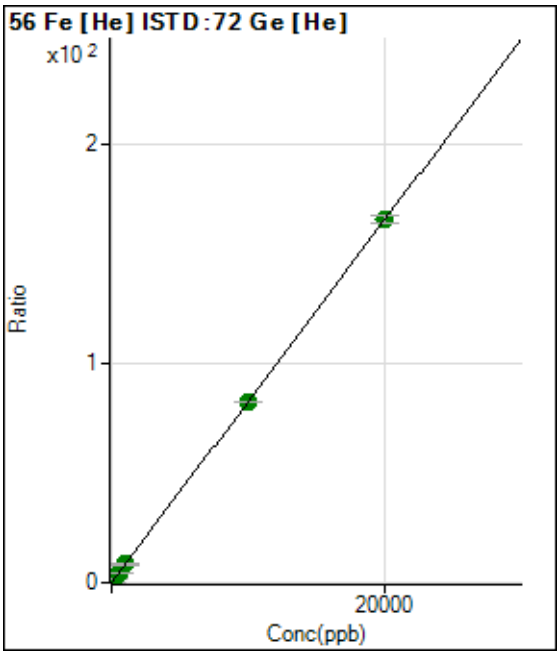
Calibration for 023_ICV.d



	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>

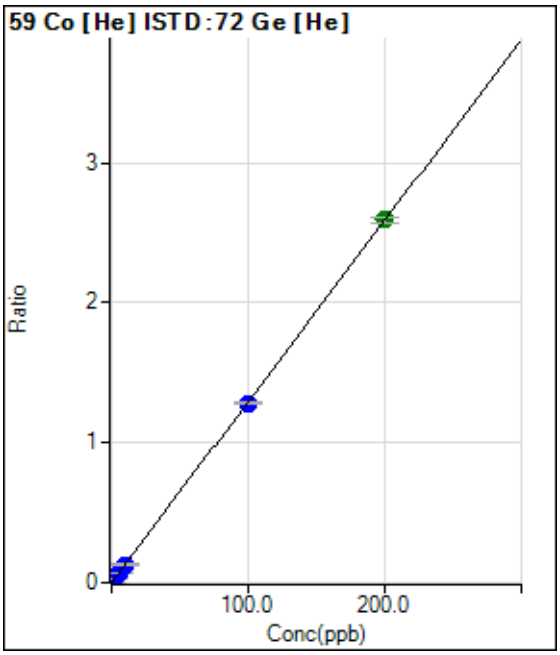


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19911.47	0.0263	P	3.2
2	☐	200.000	205.484	1292995.76	1.7232	A	0.4
3	☐	500.000	513.527	3241236.20	4.2671	A	3.2
4	☐	1000.000	1008.346	6287284.28	8.3533	A	2.6
5	☐	10000.00	9967.153	61845014.08	82.3361	A	0.8
6	☐	20000.00	20015.61	123034811.5	165.317	A	2.1

y = 0.0083 * x + 0.0263
R = 1.0000
DL = 0.3015
BEC = 3.187

Weight: <None>
Min Conc: <None>

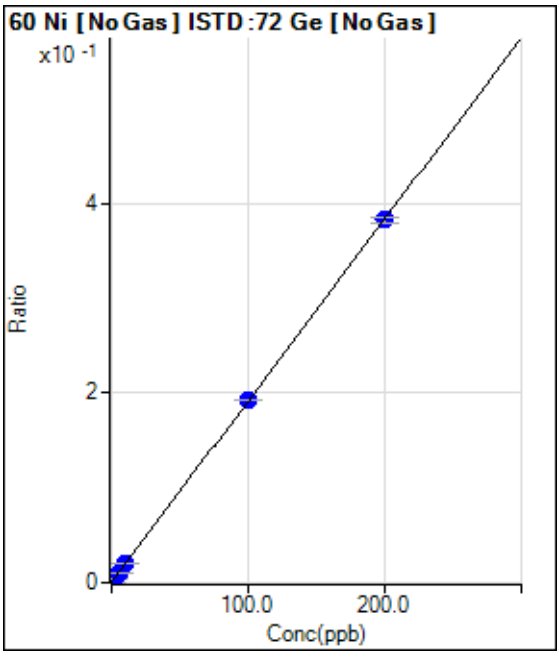
Calibration for 023_ICV.d



	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>

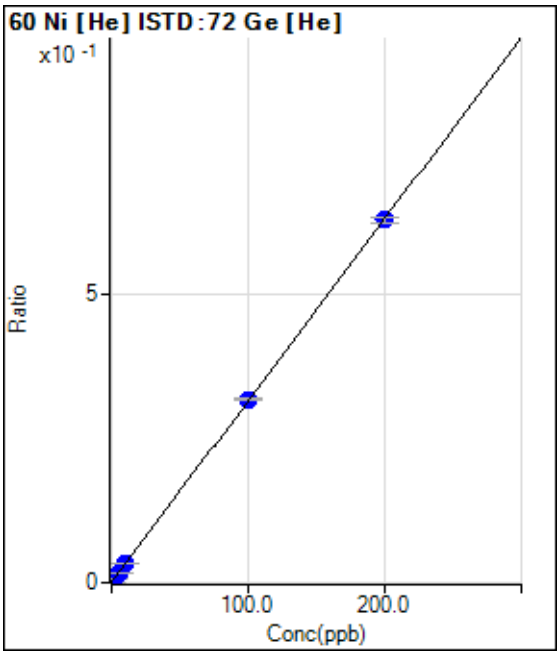


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	870.04	0.0003	P	6.0
2	☐	2.000	2.065	11378.28	0.0043	P	5.9
3	☐	5.000	5.138	27194.23	0.0102	P	3.0
4	☐	10.000	10.371	53665.55	0.0202	P	1.7
5	☐	100.000	100.503	510467.68	0.1926	P	0.6
6	☐	200.000	199.726	1000430.87	0.3825	P	1.8

y = 0.0019 * x + 3.2467E-004
R = 1.0000
DL = 0.03035
BEC = 0.1697

Weight: <None>
Min Conc: <None>

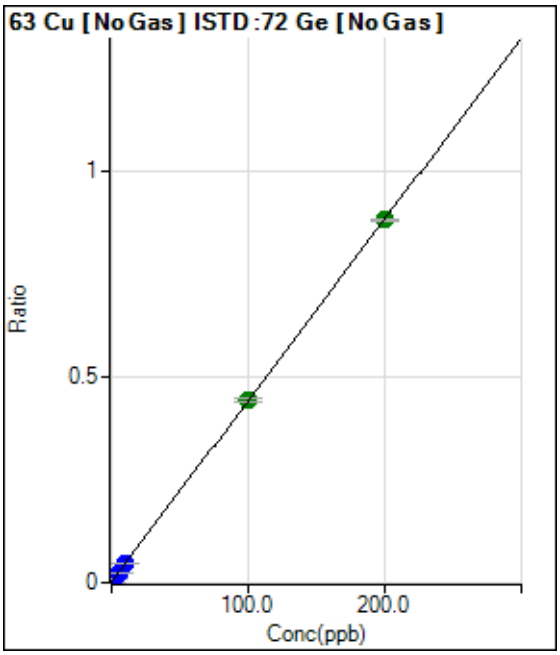
Calibration for 023_ICV.d



	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>

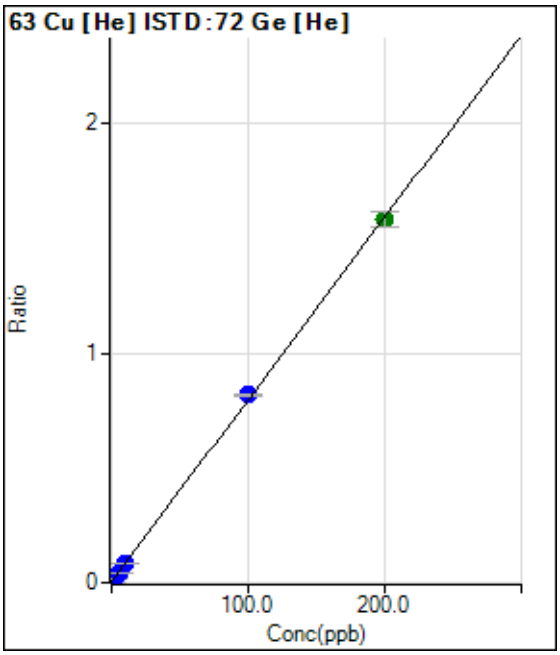


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5804.68	0.0022	P	0.7
2	☐	2.000	2.098	30330.71	0.0114	P	1.5
3	☐	5.000	5.300	68257.82	0.0255	P	0.7
4	☐	10.000	10.542	129209.39	0.0486	P	0.3
5	☐	100.000	100.370	1176262.95	0.4438	A	2.5
6	☐	200.000	199.779	2305239.08	0.8813	A	0.3

y = 0.0044 * x + 0.0022
R = 1.0000
DL = 0.01018
BEC = 0.4919

Weight: <None>
Min Conc: <None>

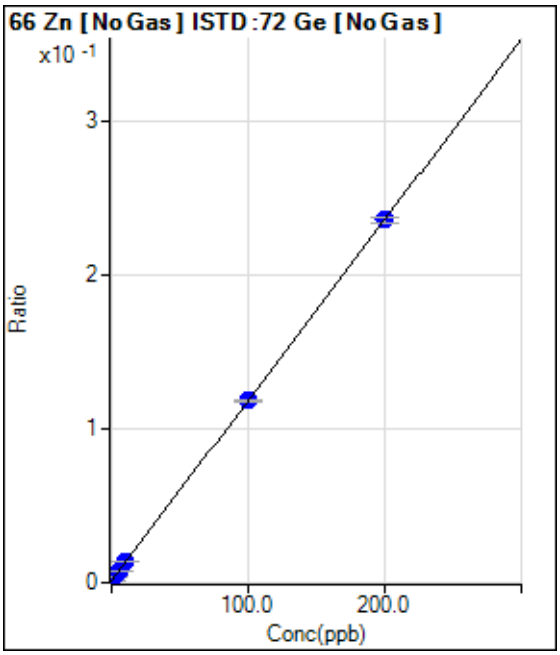
Calibration for 023_ICV.d



	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

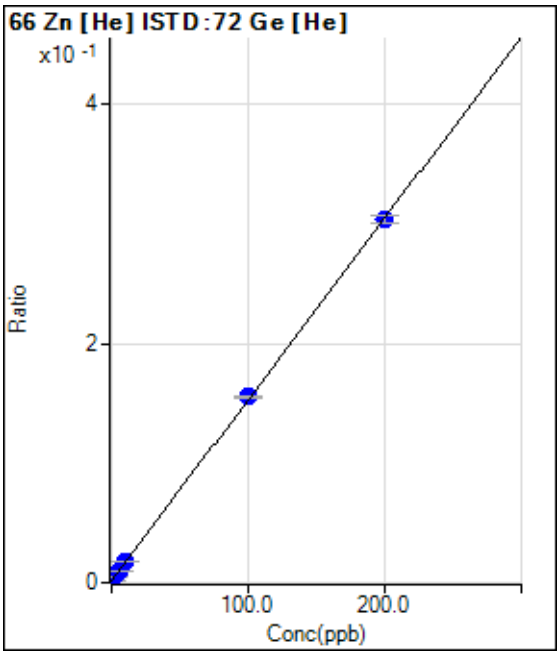
Weight: <None>
Min Conc: <None>



	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

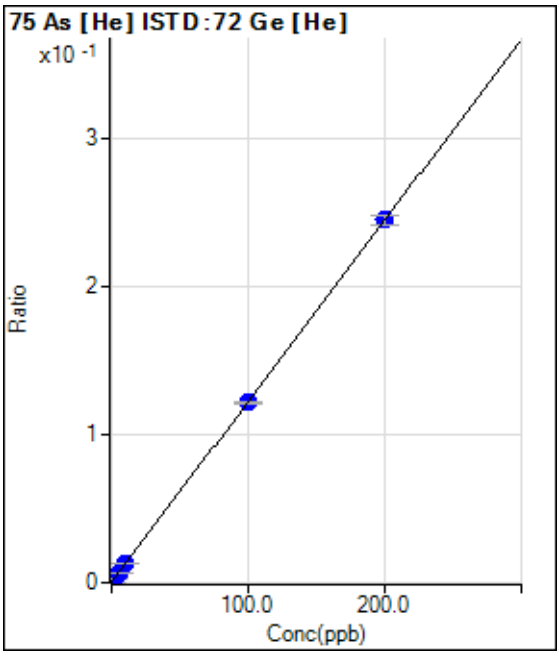
Weight: <None>
Min Conc: <None>



	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>

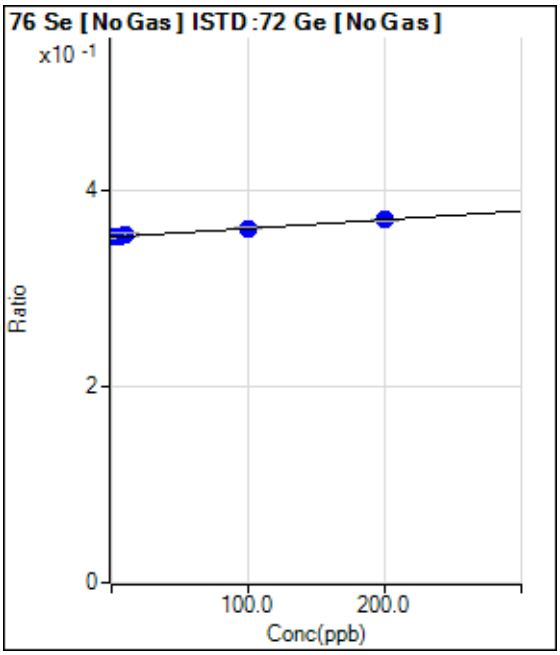


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	241.11	0.0003	P	12.8
2	☐	2.000	2.024	2093.51	0.0028	P	3.0
3	☐	5.000	4.953	4836.45	0.0064	P	6.3
4	☐	10.000	10.117	9537.86	0.0127	P	3.4
5	☐	100.000	99.290	91317.60	0.1216	P	0.4
6	☐	200.000	200.350	182312.12	0.2450	P	2.6

y = 0.0012 * x + 3.1813E-004
R = 1.0000
DL = 0.09981
BEC = 0.2605

Weight: <None>
Min Conc: <None>

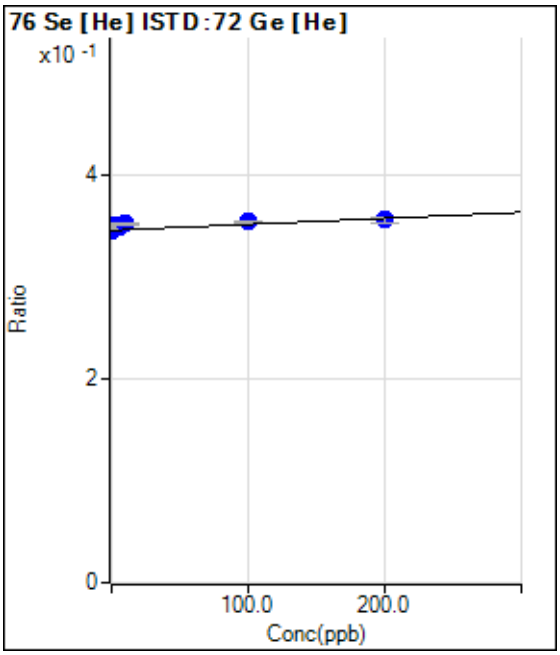
Calibration for 023_ICV.d



	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>

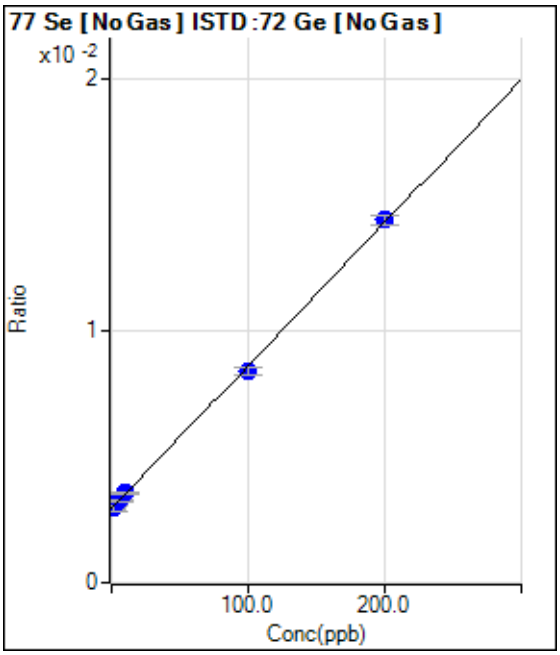


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	261798.99	0.3459	P	0.6
2	☐	2.000	72.951	262751.49	0.3502	P	0.3
3	☐	5.000	52.306	265165.55	0.3490	P	0.6
4	☐	10.000	113.858	265460.94	0.3526	P	0.7
5	☐	100.000	140.516	266046.13	0.3542	P	0.4
6	☐	200.000	172.657	265014.75	0.3561	P	1.9

y = 5.9084E-005 * x + 0.3459
R = 0.8161
DL = 102.1
BEC = 5854

Weight: <None>
Min Conc: <None>

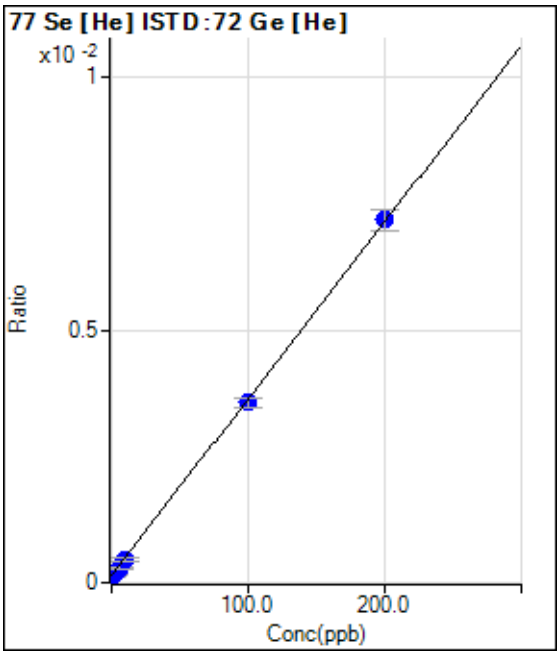
Calibration for 023_ICV.d



	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>

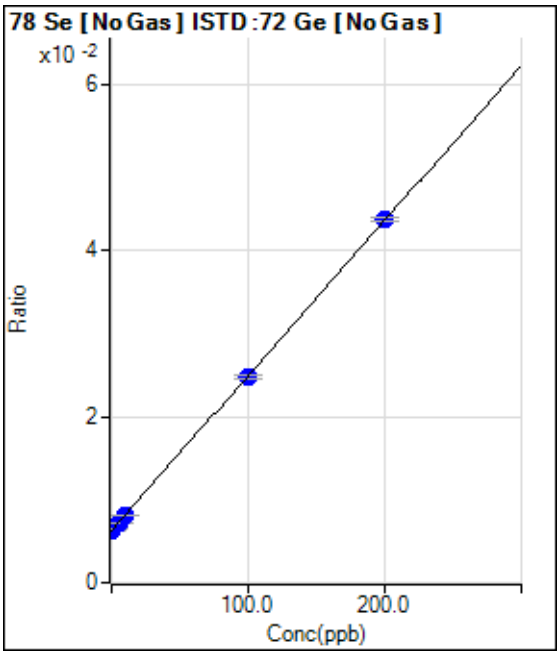


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	110.00	0.0001	P	30.9
2	☐	2.000	0.179	113.33	0.0002	P	20.3
3	☐	5.000	3.894	213.34	0.0003	P	14.5
4	☐	10.000	8.649	336.68	0.0004	P	16.3
5	☐	100.000	97.700	2673.65	0.0036	P	5.1
6	☐	200.000	201.263	5347.84	0.0072	P	6.0

y = 3.4945E-005 * x + 1.4478E-004
R = 0.9999
DL = 3.836
BEC = 4.143

Weight: <None>
Min Conc: <None>

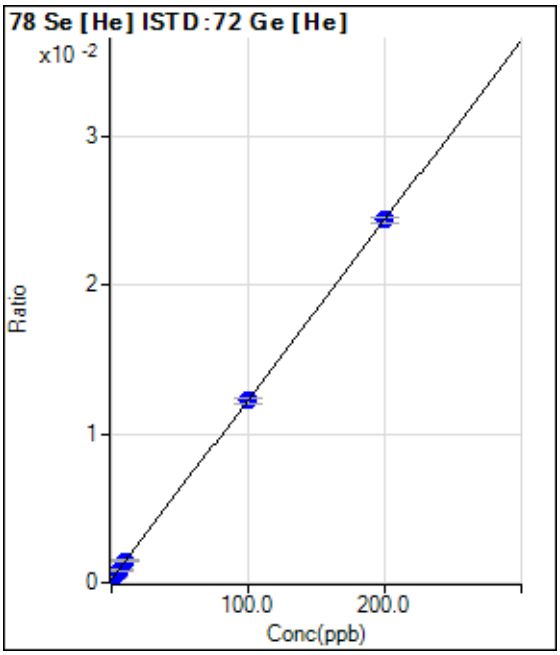
Calibration for 023_ICV.d



	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>

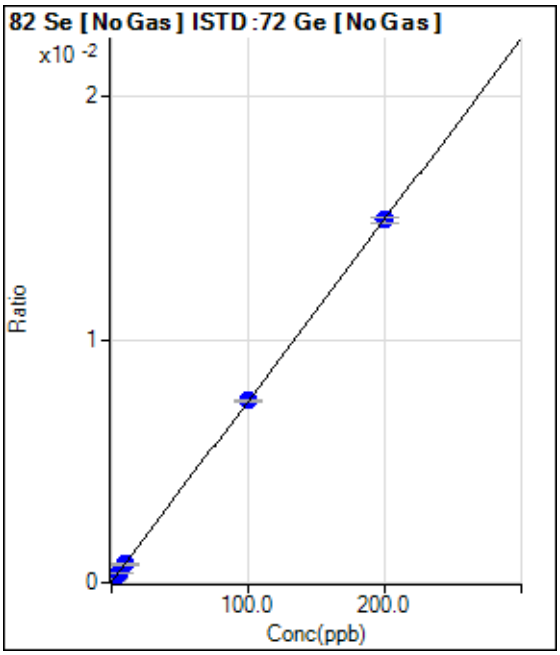


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	171.33	0.0002	P	8.7
2	☐	2.000	1.798	332.67	0.0004	P	4.4
3	☐	5.000	5.076	638.02	0.0008	P	1.9
4	☐	10.000	10.091	1087.38	0.0014	P	10.4
5	☐	100.000	99.689	9219.84	0.0123	P	3.1
6	☐	200.000	200.151	18178.93	0.0244	P	1.4

y = 1.2088E-004 * x + 2.2618E-004
R = 1.0000
DL = 0.4857
BEC = 1.871

Weight: <None>
Min Conc: <None>

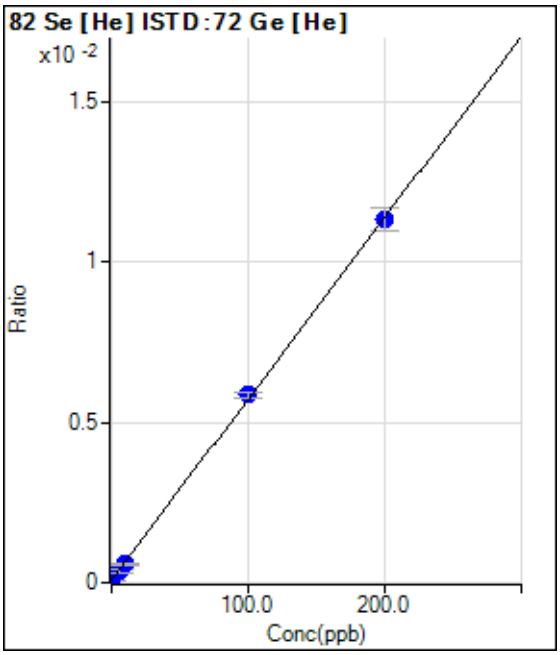
Calibration for 023_ICV.d



	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>

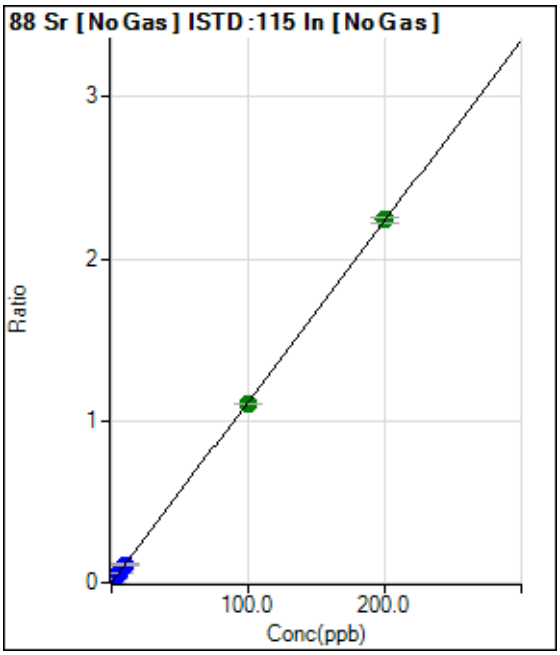


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0001	P	14.9
2	☐	2.000	3.168	193.34	0.0003	P	11.9
3	☐	5.000	4.828	266.68	0.0004	P	23.0
4	☐	10.000	8.732	430.02	0.0006	P	11.2
5	☐	100.000	102.308	4397.49	0.0059	P	2.6
6	☐	200.000	198.902	8412.77	0.0113	P	6.5

y = 5.6434E-005 * x + 7.9124E-005
R = 0.9999
DL = 0.6258
BEC = 1.402

Weight: <None>
Min Conc: <None>

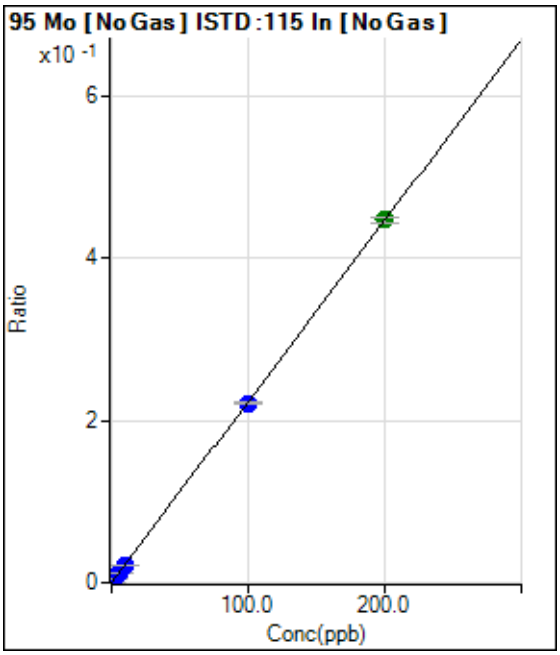
Calibration for 023_ICV.d



	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>

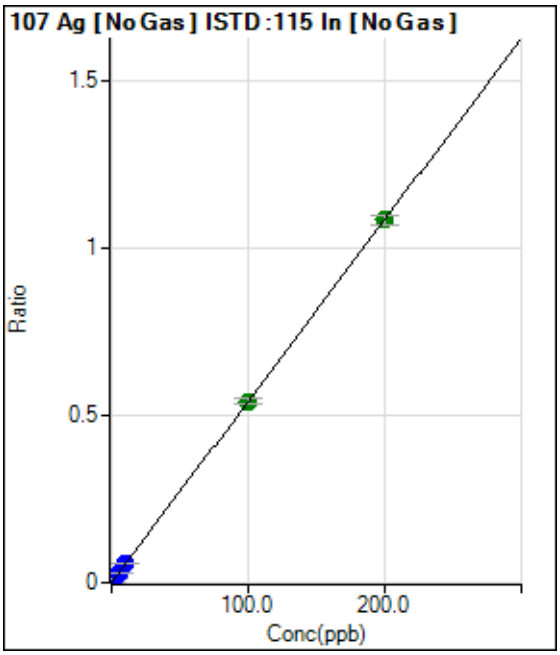


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140.00	0.0000	P	27.3
2	☐	2.000	1.886	13513.76	0.0043	P	1.3
3	☐	5.000	4.905	34240.96	0.0110	P	1.8
4	☐	10.000	9.662	68170.89	0.0216	P	3.4
5	☐	100.000	99.172	685572.33	0.2215	P	0.9
6	☐	200.000	200.434	1351449.20	0.4476	A	1.7

y = 0.0022 * x + 4.4812E-005
R = 1.0000
DL = 0.01643
BEC = 0.02007

Weight: <None>
Min Conc: <None>

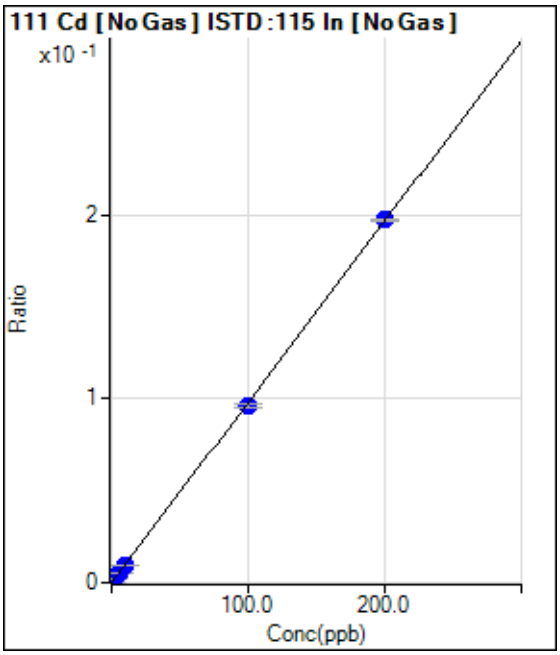
Calibration for 023_ICV.d



	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

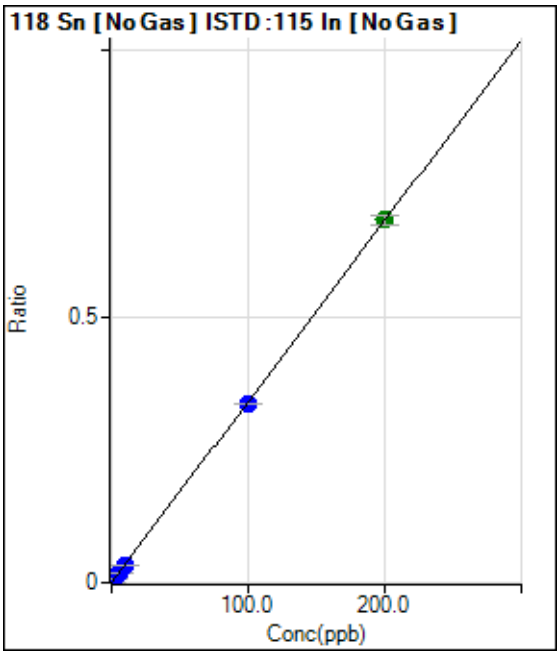
Weight: <None>
Min Conc: <None>



	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

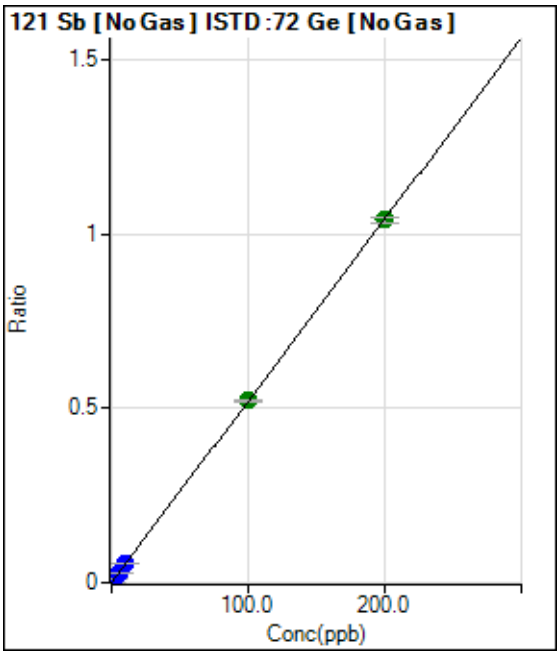
Weight: <None>
Min Conc: <None>



	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>

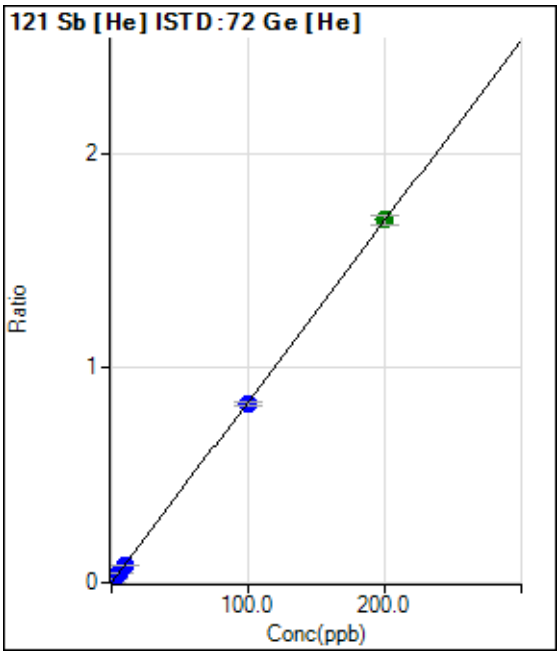


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	463.35	0.0002	P	23.9
2	☐	2.000	2.031	28574.90	0.0107	P	0.3
3	☐	5.000	5.109	71648.44	0.0268	P	1.2
4	☐	10.000	10.233	142093.97	0.0534	P	2.6
5	☐	100.000	100.335	1383797.95	0.5221	A	0.6
6	☐	200.000	199.818	2719607.25	1.0397	A	1.7

y = 0.0052 * x + 1.7291E-004
R = 1.0000
DL = 0.02383
BEC = 0.03324

Weight: <None>
Min Conc: <None>

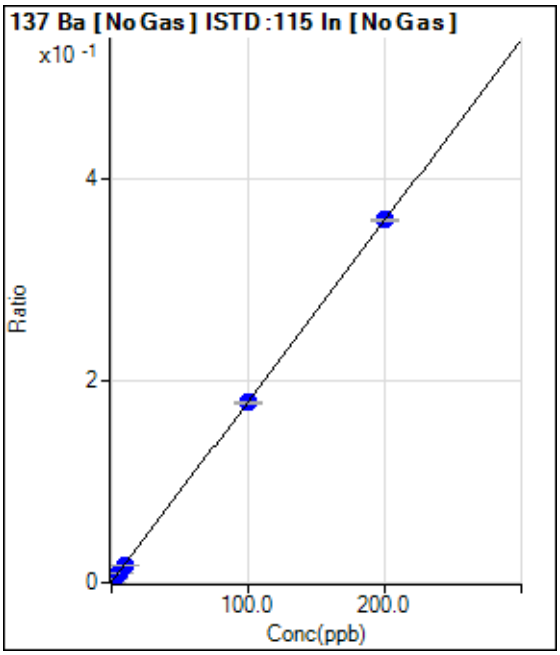
Calibration for 023_ICV.d



	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

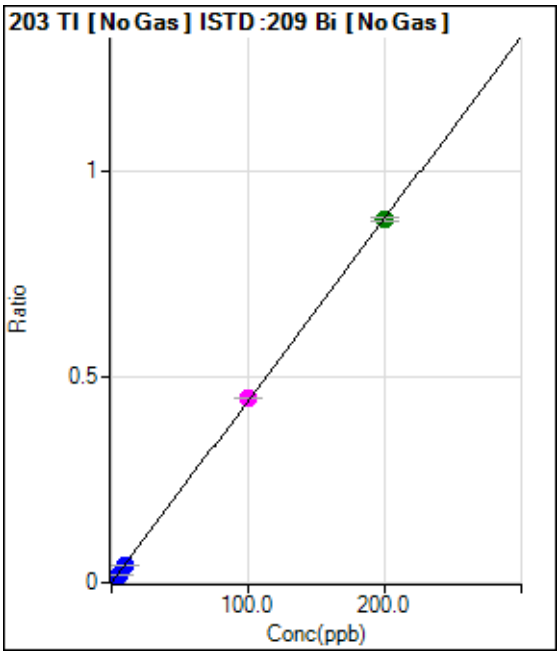
Weight: <None>
Min Conc: <None>



	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

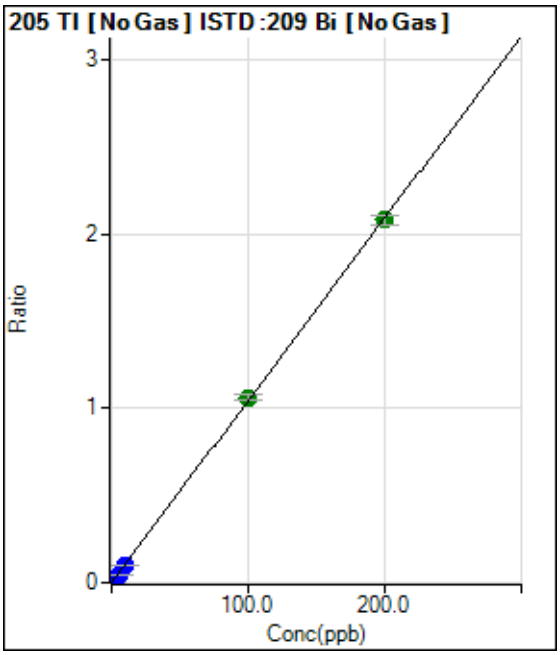
Weight: <None>
Min Conc: <None>



	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>

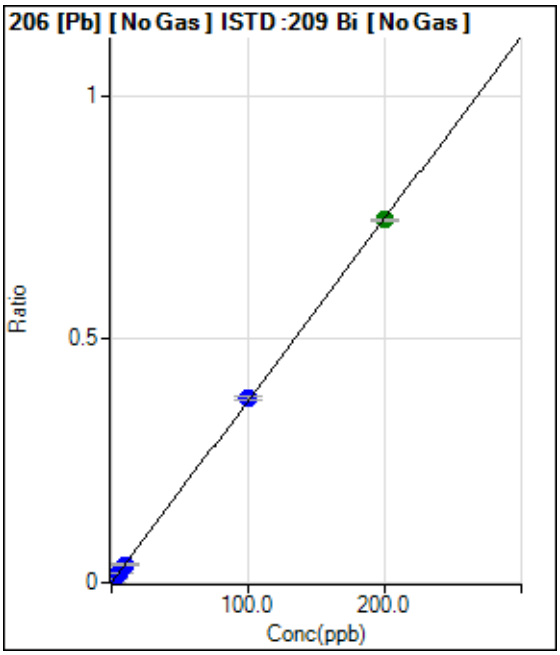


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	283.34	0.0001	P	18.0
2	☐	2.000	1.887	49632.51	0.0198	P	3.1
3	☐	5.000	4.660	124561.20	0.0488	P	2.0
4	☐	10.000	9.318	248772.89	0.0974	P	0.9
5	☐	100.000	101.732	2678350.11	1.0620	A	3.5
6	☐	200.000	199.178	5148943.26	2.0791	A	2.4

y = 0.0104 * x + 1.1087E-004
R = 0.9999
DL = 0.005729
BEC = 0.01062

Weight: <None>
Min Conc: <None>

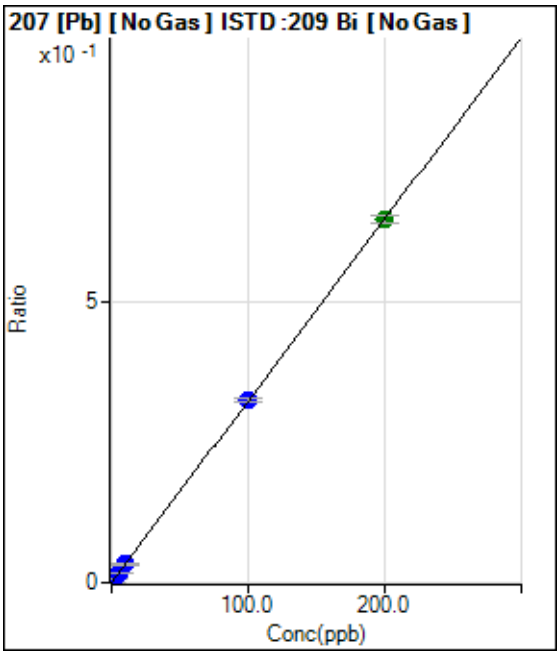
Calibration for 023_ICV.d



	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

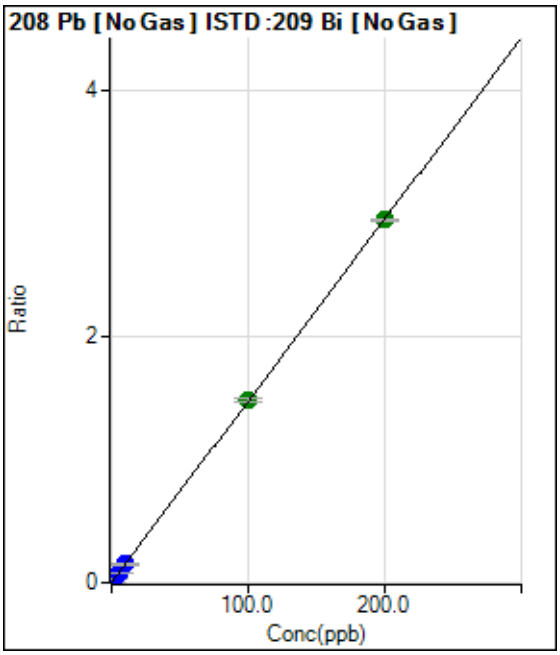
Weight: <None>
Min Conc: <None>



	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

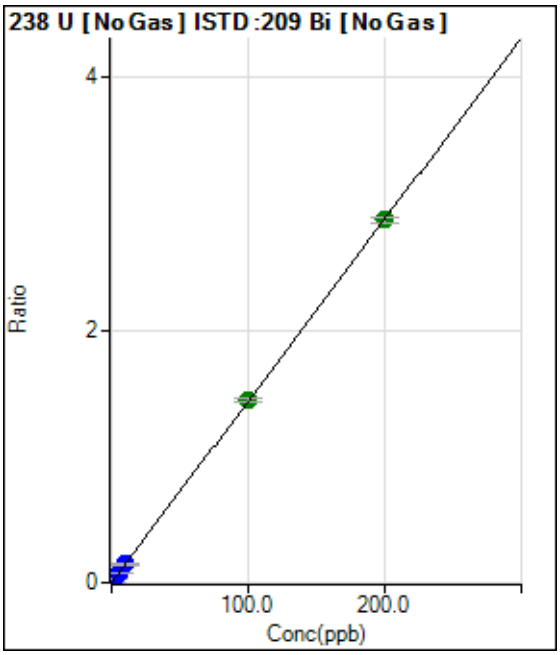
Weight: <None>
Min Conc: <None>



	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>

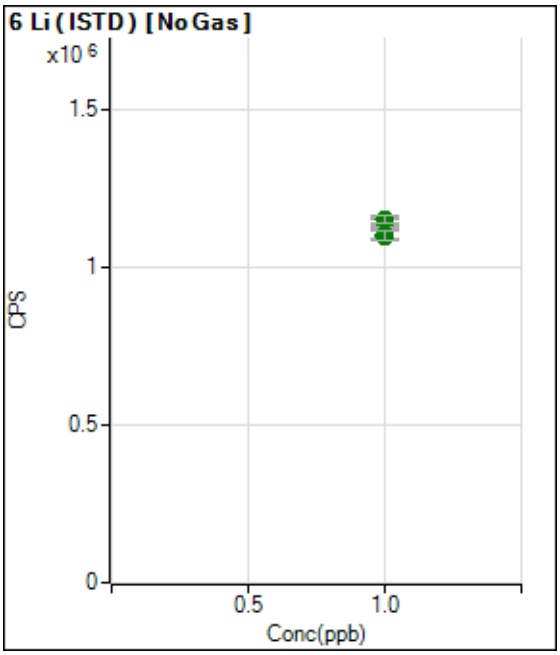


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	19.5
2	☐	2.000	2.011	72474.04	0.0289	P	0.5
3	☐	5.000	5.065	186112.24	0.0728	P	1.7
4	☐	10.000	10.085	370503.80	0.1450	P	1.8
5	☐	100.000	100.282	3637394.01	1.4421	A	2.0
6	☐	200.000	199.853	7117424.90	2.8740	A	1.3

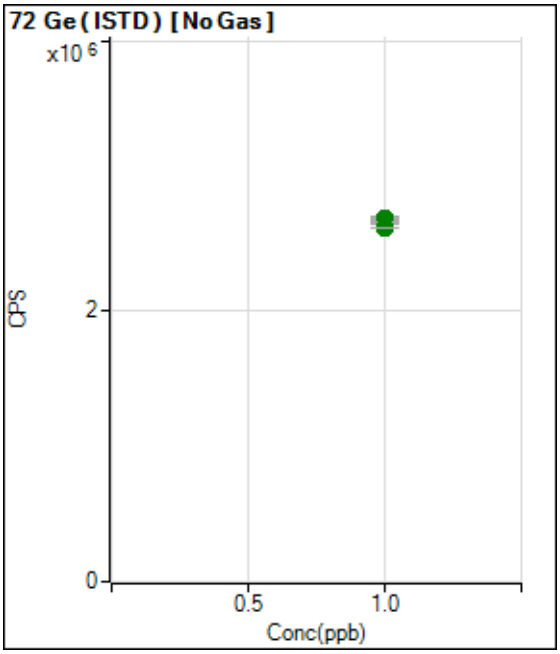
y = 0.0144 * x + 1.0377E-005
R = 1.0000
DL = 0.0004223
BEC = 0.0007216

Weight: <None>
Min Conc: <None>

Calibration for 023_ICV.d

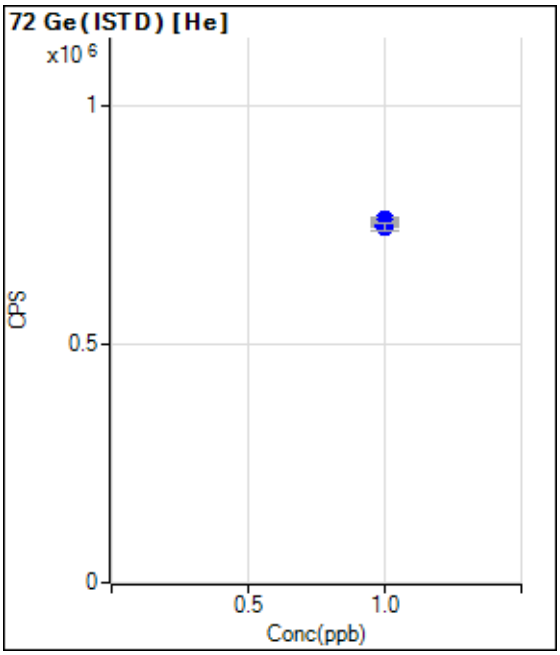


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1128563.62		A	1.5
2	☐	1.000		1142982.71		A	1.3
3	☐	1.000		1143317.26		A	2.3
4	☐	1.000		1150744.25		A	2.0
5	☐	1.000		1105397.12		A	1.9
6	☐	1.000		1100392.77		A	2.7

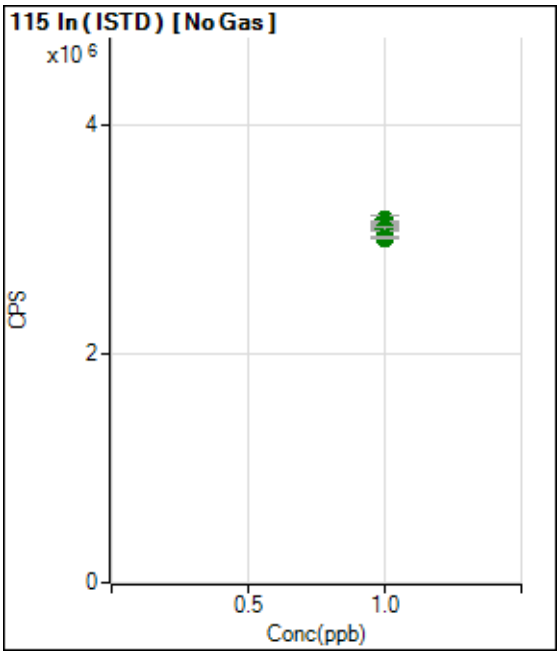


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2681639.65		A	1.8
2	☐	1.000		2661020.79		A	0.4
3	☐	1.000		2678438.08		A	0.9
4	☐	1.000		2661232.25		A	1.3
5	☐	1.000		2650268.30		A	0.7
6	☐	1.000		2615755.74		A	0.2

Calibration for 023_ICV.d

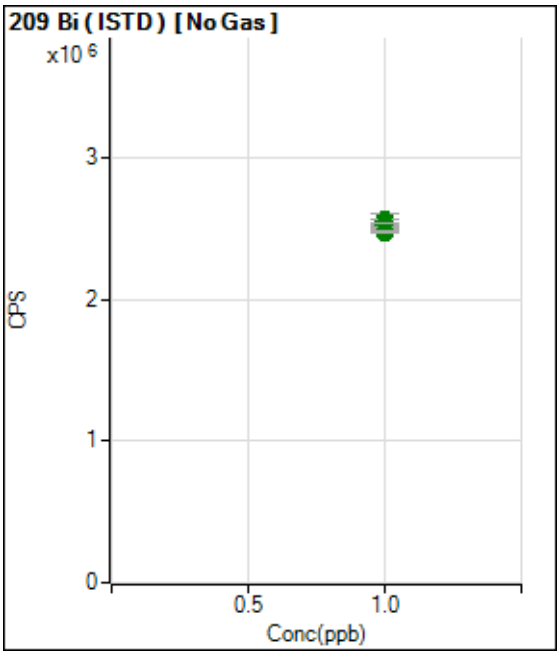


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		756956.55		P	1.8
2	☐	1.000		750338.74		P	1.3
3	☐	1.000		759875.09		P	1.8
4	☐	1.000		752924.26		P	2.0
5	☐	1.000		751187.54		P	1.4
6	☐	1.000		744454.91		P	2.1



	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

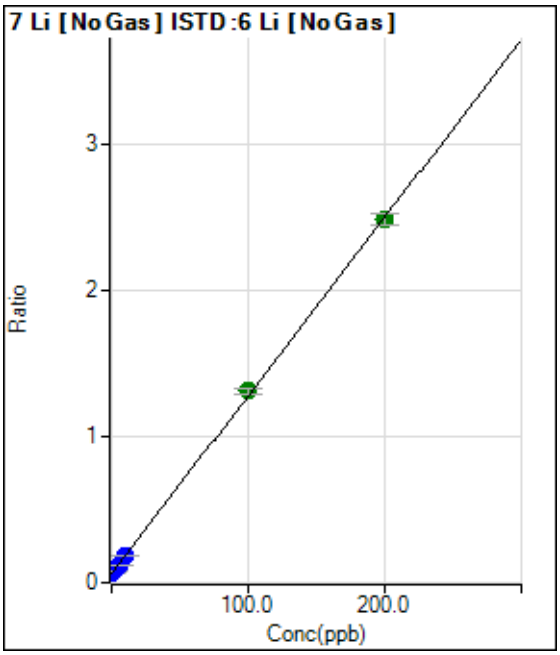
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1137793	2.32	1128564	100.82	70	120	
Ge	72	2	He	766046	2.11	756957	101.20	70	120	
Ge	72	1	No Gas	2675740	1.30	2681640	99.78	70	120	
In	115	1	No Gas	3109093	1.40	3115345	99.80	70	120	
Bi	209	1	No Gas	2465875	1.43	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

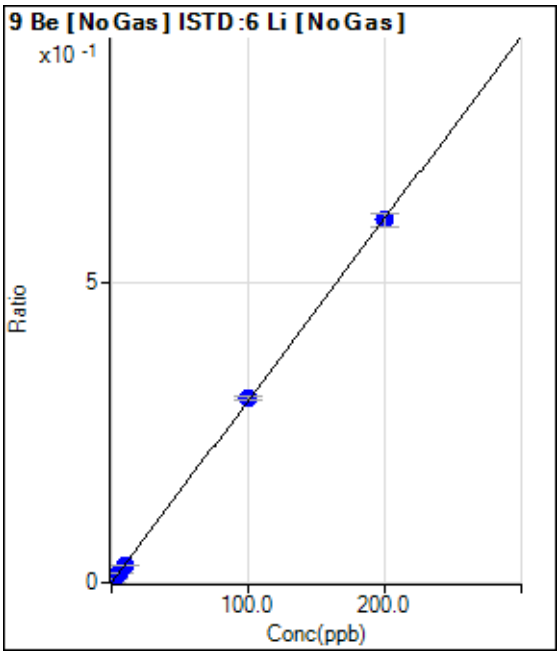
Calibration for 023_ICV.d



	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>

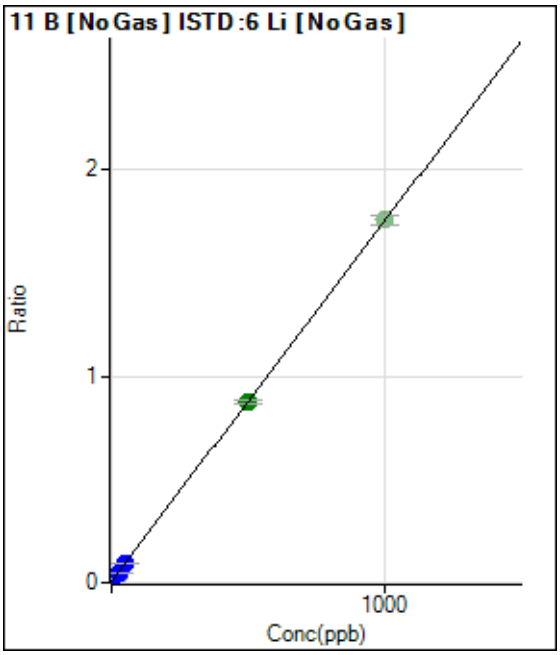


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6.67	0.0000	P	114.1
2	☐	2.000	1.912	6636.60	0.0058	P	3.5
3	☐	5.000	4.932	17110.48	0.0150	P	2.8
4	☐	10.000	9.739	34009.32	0.0296	P	1.3
5	☐	100.000	101.403	340017.80	0.3077	P	2.5
6	☐	200.000	199.314	665113.38	0.6048	P	3.5

y = 0.0030 * x + 5.9368E-006
R = 1.0000
DL = 0.006698
BEC = 0.001957

Weight: <None>
Min Conc: <None>

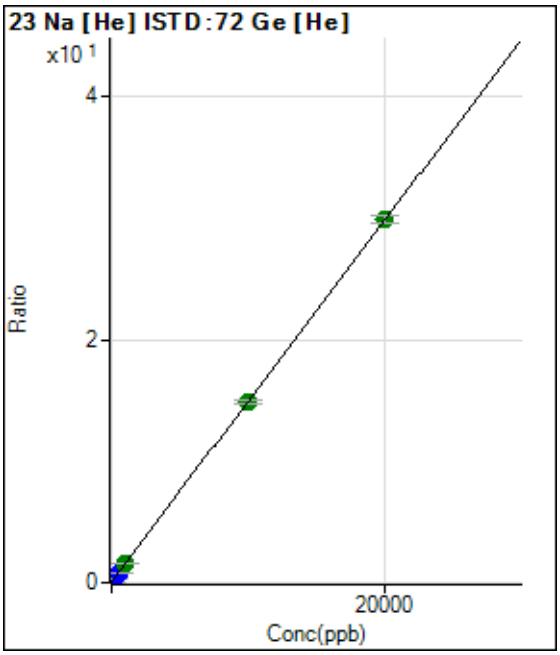
Calibration for 023_ICV.d



	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>

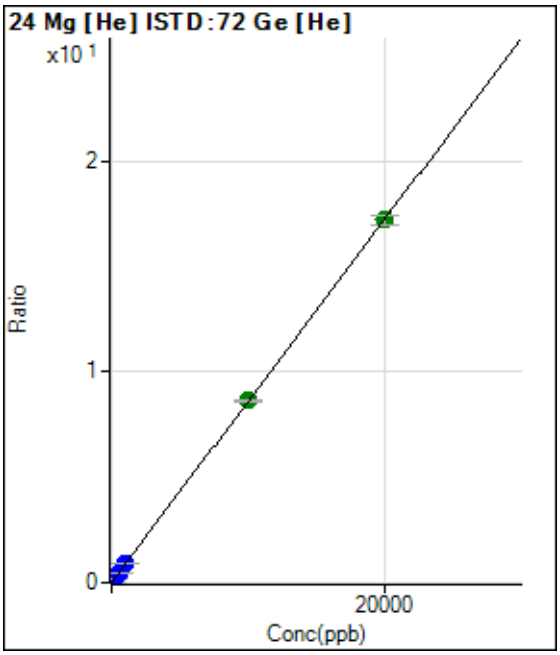


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48474.38	0.0641	P	2.7
2	☐	200.000	210.951	283466.29	0.3778	P	2.1
3	☐	500.000	529.274	646715.29	0.8513	P	2.0
4	☐	1000.000	1037.541	1209991.88	1.6073	A	1.3
5	☐	10000.00	9926.489	11136663.17	14.8284	A	2.4
6	☐	20000.00	20034.03	22225622.17	29.8620	A	2.0

y = 0.0015 * x + 0.0641
R = 1.0000
DL = 3.451
BEC = 43.07

Weight: <None>
Min Conc: <None>

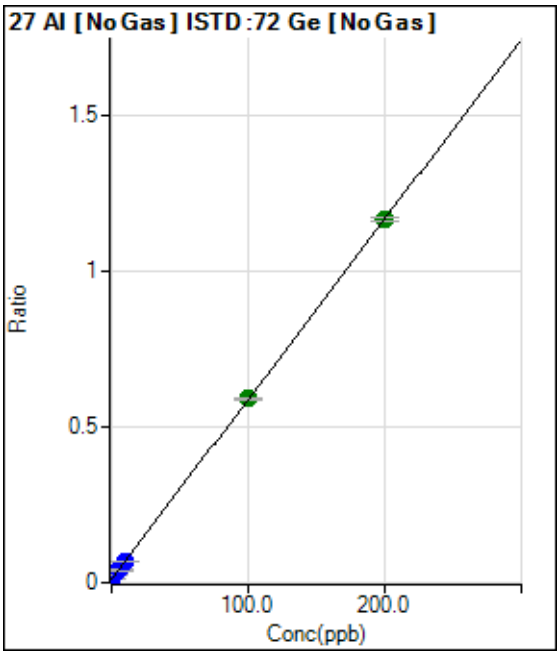
Calibration for 023_ICV.d



	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>

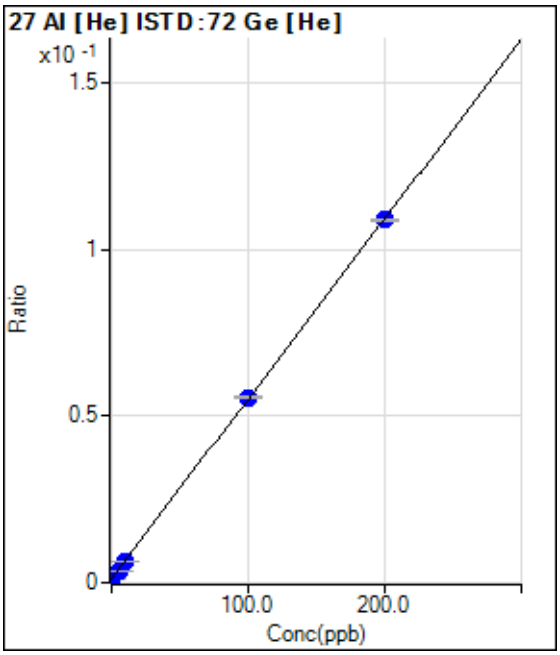


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28756.75	0.0107	P	2.5
2	☐	2.000	1.940	58345.64	0.0219	P	0.4
3	☐	5.000	5.091	107442.46	0.0401	P	1.1
4	☐	10.000	10.245	185919.31	0.0699	P	1.6
5	☐	100.000	100.423	1565039.98	0.5905	A	1.4
6	☐	200.000	199.775	3045011.31	1.1641	A	1.2

y = 0.0058 * x + 0.0107
R = 1.0000
DL = 0.1398
BEC = 1.858

Weight: <None>
Min Conc: <None>

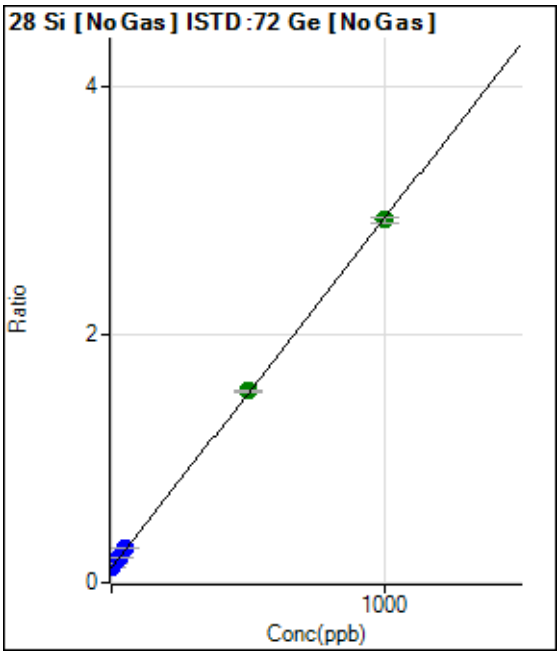
Calibration for 023_ICV.d



	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>

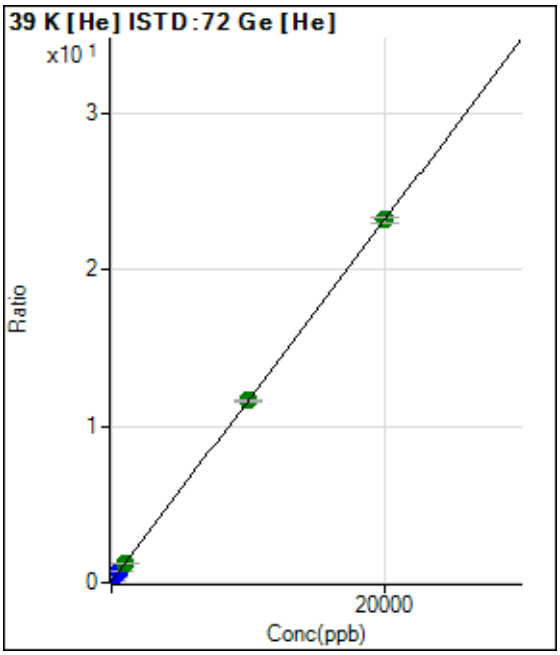


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	317248.29	0.1183	P	1.5
2	☐	10.000	11.983	404870.24	0.1521	P	1.6
3	☐	25.000	30.217	545441.88	0.2036	P	4.6
4	☐	50.000	55.495	731628.89	0.2750	P	1.7
5	☐	500.000	507.828	4112108.90	1.5516	A	1.0
6	☐	1000.000	995.661	7660509.47	2.9285	A	1.8

y = 0.0028 * x + 0.1183
R = 1.0000
DL = 1.884
BEC = 41.92

Weight: <None>
Min Conc: <None>

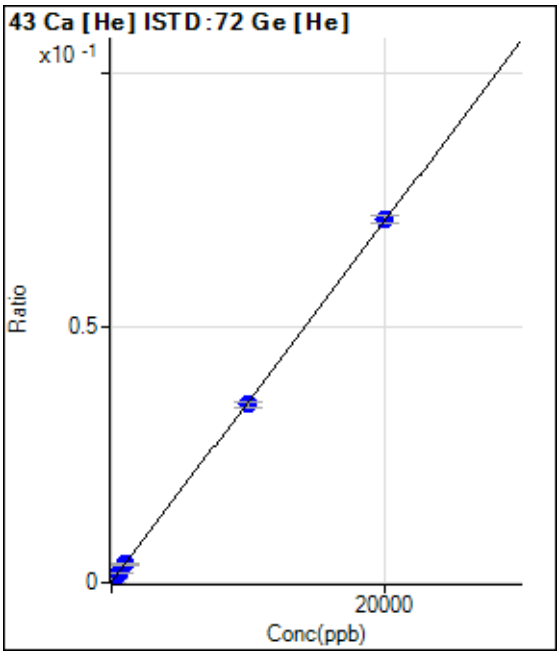
Calibration for 023_ICV.d



	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>

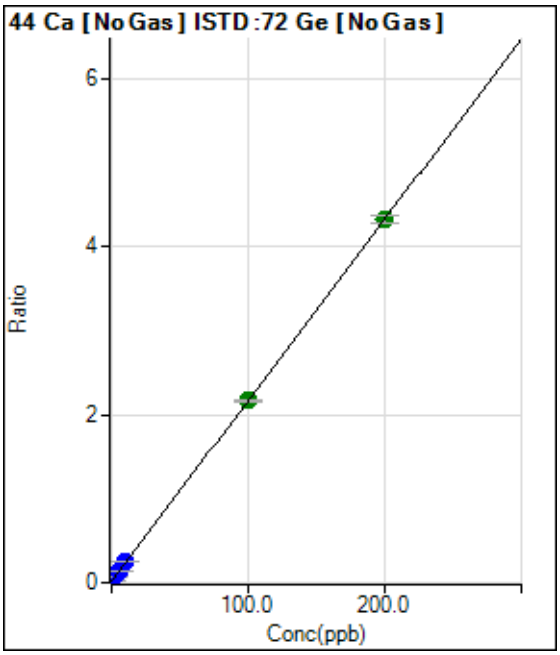


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0001	P	61.1
2	☐	200.000	208.390	603.36	0.0008	P	6.6
3	☐	500.000	485.412	1356.76	0.0018	P	3.9
4	☐	1000.000	995.093	2706.98	0.0036	P	7.6
5	☐	10000.00	9859.678	26282.14	0.0350	P	3.5
6	☐	20000.00	20070.68	52972.07	0.0712	P	2.1

y = 3.5430E-006 * x + 6.6229E-005
R = 1.0000
DL = 34.26
BEC = 18.69

Weight: <None>
Min Conc: <None>

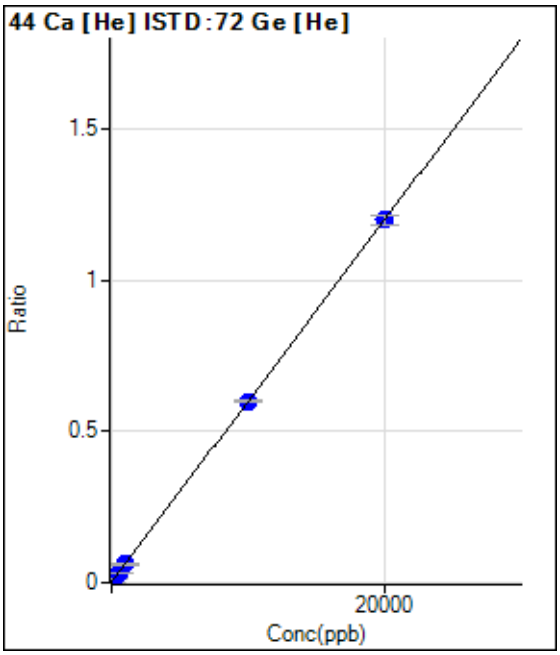
Calibration for 023_ICV.d



	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>

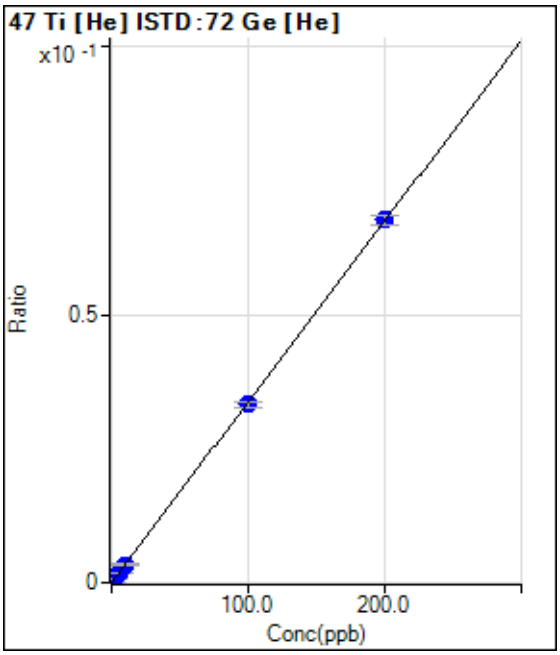


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	916.71	0.0012	P	5.2
2	☐	200.000	196.588	9733.58	0.0130	P	0.7
3	☐	500.000	481.181	22785.91	0.0300	P	3.7
4	☐	1000.000	998.158	45866.79	0.0609	P	2.3
5	☐	10000.00	9993.324	450020.42	0.5991	P	1.0
6	☐	20000.00	20003.93	891588.40	1.1980	P	2.8

y = 5.9829E-005 * x + 0.0012
R = 1.0000
DL = 3.152
BEC = 20.24

Weight: <None>
Min Conc: <None>

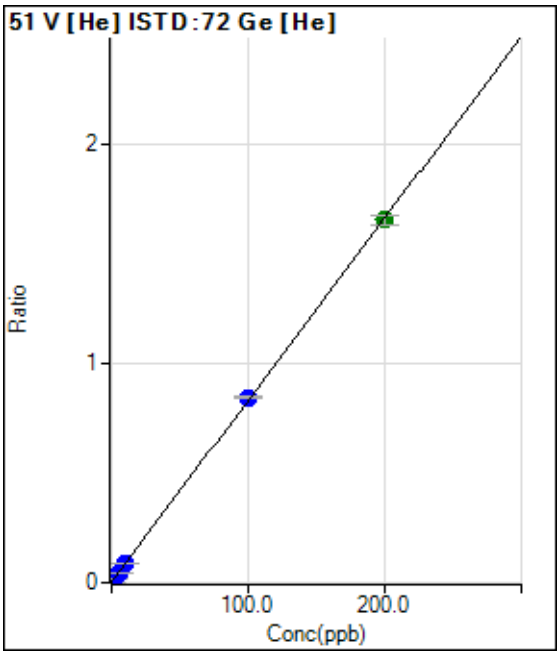
Calibration for 023_ICV.d



	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>

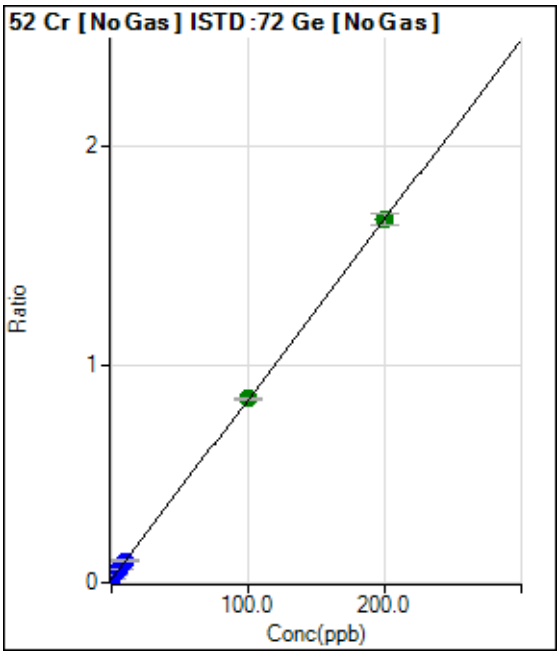


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2180.19	0.0029	P	3.3
2	☐	2.000	1.989	14541.08	0.0194	P	1.2
3	☐	5.000	4.978	33565.44	0.0442	P	2.3
4	☐	10.000	10.113	65339.37	0.0868	P	1.5
5	☐	100.000	101.551	635065.66	0.8455	P	1.1
6	☐	200.000	199.220	1232495.71	1.6559	A	2.7

y = 0.0083 * x + 0.0029
R = 1.0000
DL = 0.0348
BEC = 0.3472

Weight: <None>
Min Conc: <None>

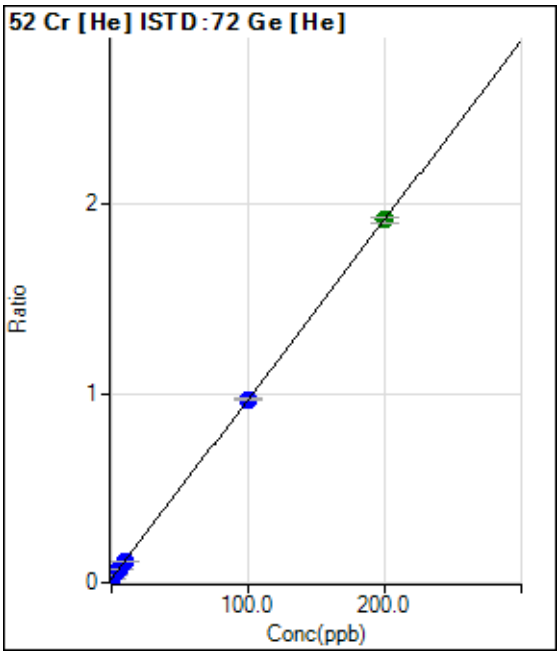
Calibration for 023_ICV.d



	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>

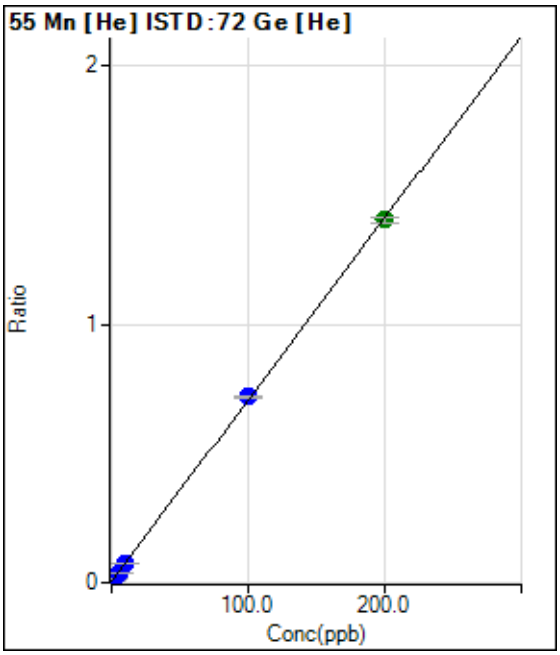


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15432.28	0.0204	P	0.9
2	☐	2.000	1.981	29388.37	0.0392	P	2.9
3	☐	5.000	5.124	52407.09	0.0690	P	2.7
4	☐	10.000	10.095	87438.53	0.1161	P	0.2
5	☐	100.000	100.051	728053.27	0.9693	P	1.2
6	☐	200.000	199.967	1426761.95	1.9169	A	1.5

y = 0.0095 * x + 0.0204
R = 1.0000
DL = 0.05912
BEC = 2.15

Weight: <None>
Min Conc: <None>

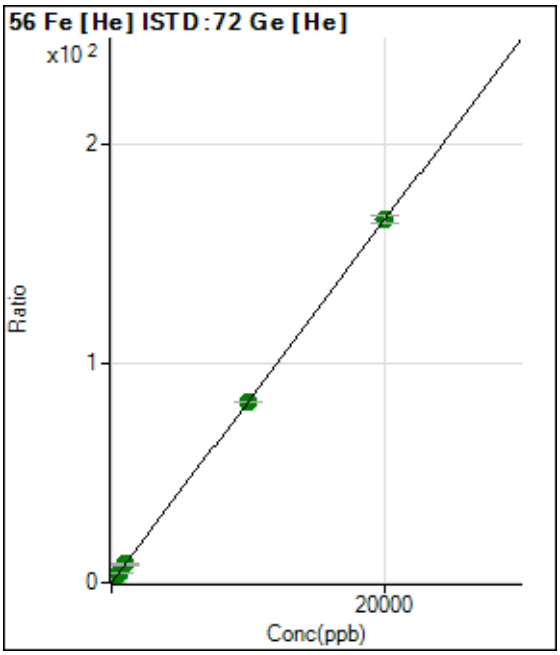
Calibration for 023_ICV.d



	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>

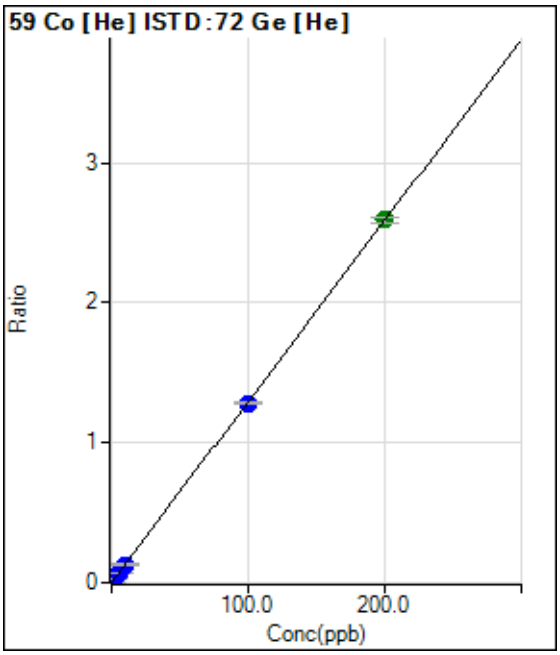


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19911.47	0.0263	P	3.2
2	☐	200.000	205.484	1292995.76	1.7232	A	0.4
3	☐	500.000	513.527	3241236.20	4.2671	A	3.2
4	☐	1000.000	1008.346	6287284.28	8.3533	A	2.6
5	☐	10000.00	9967.153	61845014.08	82.3361	A	0.8
6	☐	20000.00	20015.61	123034811.5	165.317	A	2.1

y = 0.0083 * x + 0.0263
R = 1.0000
DL = 0.3015
BEC = 3.187

Weight: <None>
Min Conc: <None>

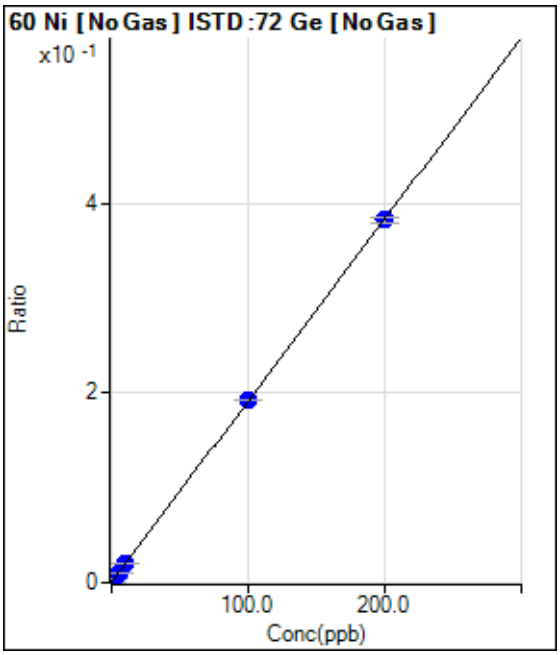
Calibration for 023_ICV.d



	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>

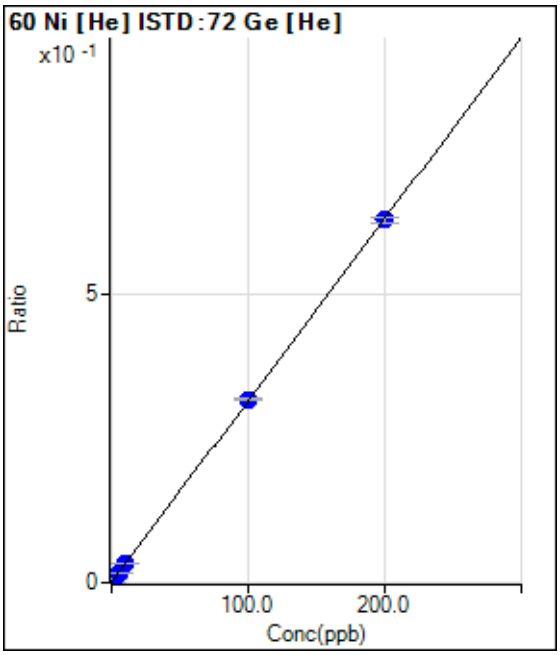


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	870.04	0.0003	P	6.0
2	☐	2.000	2.065	11378.28	0.0043	P	5.9
3	☐	5.000	5.138	27194.23	0.0102	P	3.0
4	☐	10.000	10.371	53665.55	0.0202	P	1.7
5	☐	100.000	100.503	510467.68	0.1926	P	0.6
6	☐	200.000	199.726	1000430.87	0.3825	P	1.8

y = 0.0019 * x + 3.2467E-004
R = 1.0000
DL = 0.03035
BEC = 0.1697

Weight: <None>
Min Conc: <None>

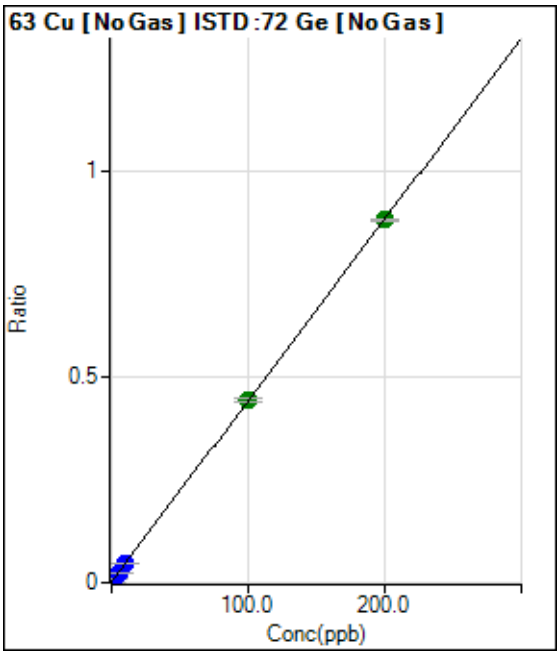
Calibration for 023_ICV.d



	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>

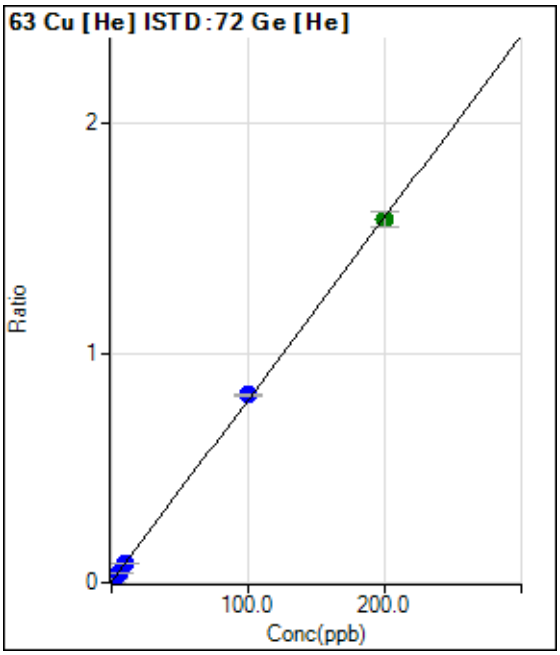


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5804.68	0.0022	P	0.7
2	☐	2.000	2.098	30330.71	0.0114	P	1.5
3	☐	5.000	5.300	68257.82	0.0255	P	0.7
4	☐	10.000	10.542	129209.39	0.0486	P	0.3
5	☐	100.000	100.370	1176262.95	0.4438	A	2.5
6	☐	200.000	199.779	2305239.08	0.8813	A	0.3

y = 0.0044 * x + 0.0022
R = 1.0000
DL = 0.01018
BEC = 0.4919

Weight: <None>
Min Conc: <None>

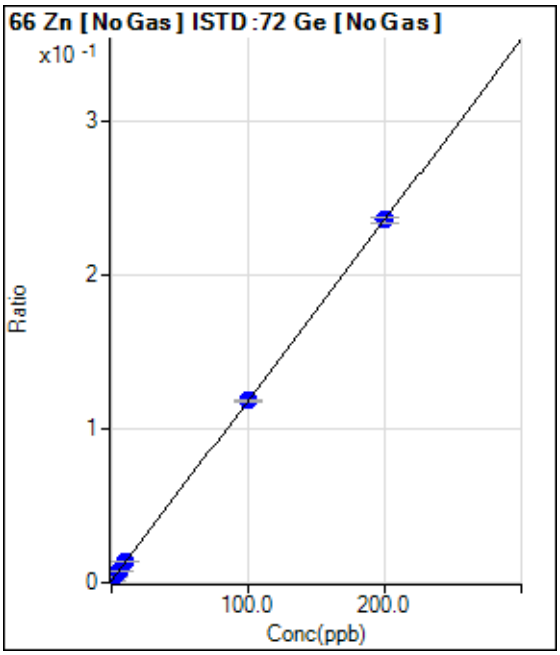
Calibration for 023_ICV.d



	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>

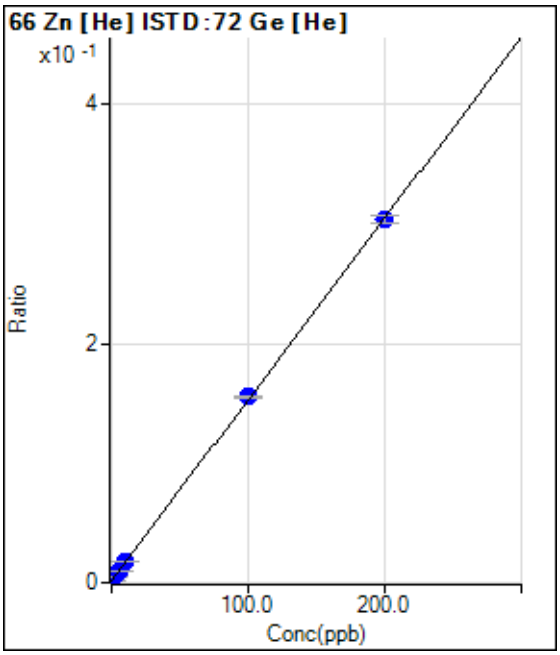


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3237.11	0.0012	P	1.3
2	☐	2.000	1.957	9330.02	0.0035	P	2.8
3	☐	5.000	5.080	19213.94	0.0072	P	0.0
4	☐	10.000	10.296	35393.23	0.0133	P	2.4
5	☐	100.000	99.961	314339.06	0.1186	P	1.2
6	☐	200.000	200.003	617623.09	0.2361	P	1.8

y = 0.0012 * x + 0.0012
R = 1.0000
DL = 0.0398
BEC = 1.028

Weight: <None>
Min Conc: <None>

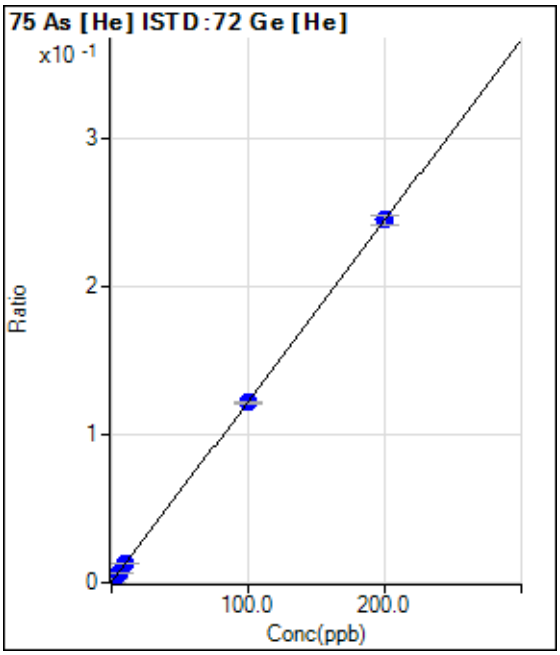
Calibration for 023_ICV.d



	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>

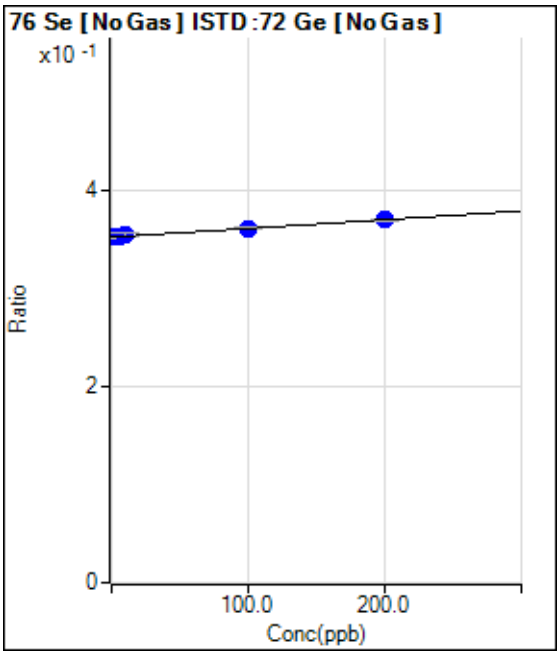


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	241.11	0.0003	P	12.8
2	☐	2.000	2.024	2093.51	0.0028	P	3.0
3	☐	5.000	4.953	4836.45	0.0064	P	6.3
4	☐	10.000	10.117	9537.86	0.0127	P	3.4
5	☐	100.000	99.290	91317.60	0.1216	P	0.4
6	☐	200.000	200.350	182312.12	0.2450	P	2.6

y = 0.0012 * x + 3.1813E-004
R = 1.0000
DL = 0.09981
BEC = 0.2605

Weight: <None>
Min Conc: <None>

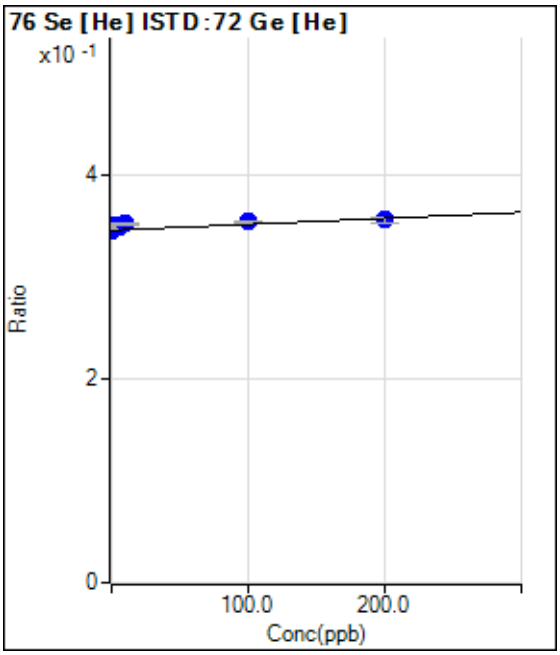
Calibration for 023_ICV.d



	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>

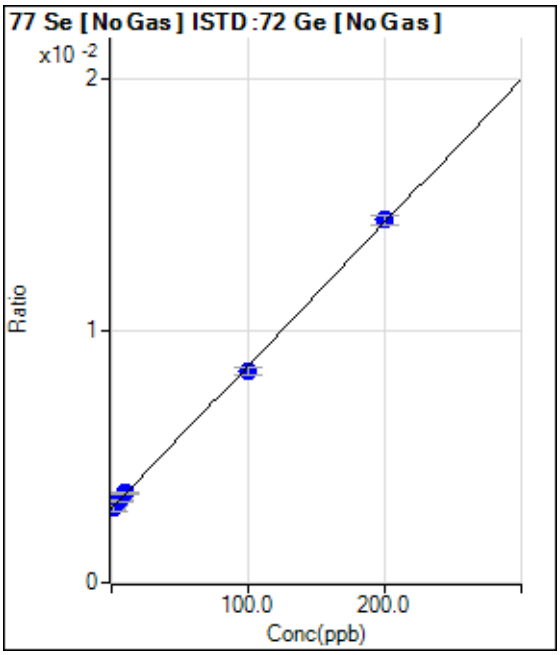


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	261798.99	0.3459	P	0.6
2	☐	2.000	72.951	262751.49	0.3502	P	0.3
3	☐	5.000	52.306	265165.55	0.3490	P	0.6
4	☐	10.000	113.858	265460.94	0.3526	P	0.7
5	☐	100.000	140.516	266046.13	0.3542	P	0.4
6	☐	200.000	172.657	265014.75	0.3561	P	1.9

y = 5.9084E-005 * x + 0.3459
R = 0.8161
DL = 102.1
BEC = 5854

Weight: <None>
Min Conc: <None>

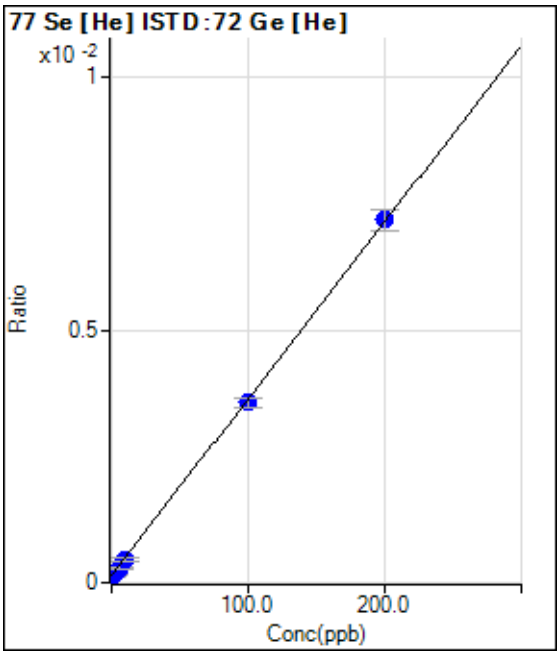
Calibration for 023_ICV.d



	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>

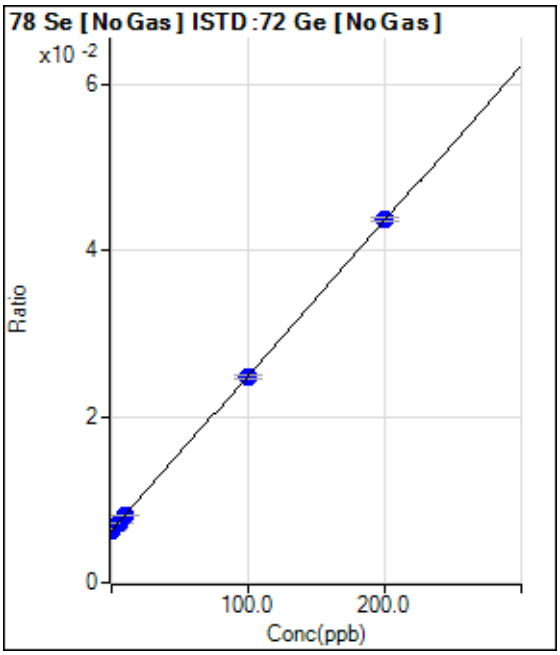


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	110.00	0.0001	P	30.9
2	☐	2.000	0.179	113.33	0.0002	P	20.3
3	☐	5.000	3.894	213.34	0.0003	P	14.5
4	☐	10.000	8.649	336.68	0.0004	P	16.3
5	☐	100.000	97.700	2673.65	0.0036	P	5.1
6	☐	200.000	201.263	5347.84	0.0072	P	6.0

y = 3.4945E-005 * x + 1.4478E-004
R = 0.9999
DL = 3.836
BEC = 4.143

Weight: <None>
Min Conc: <None>

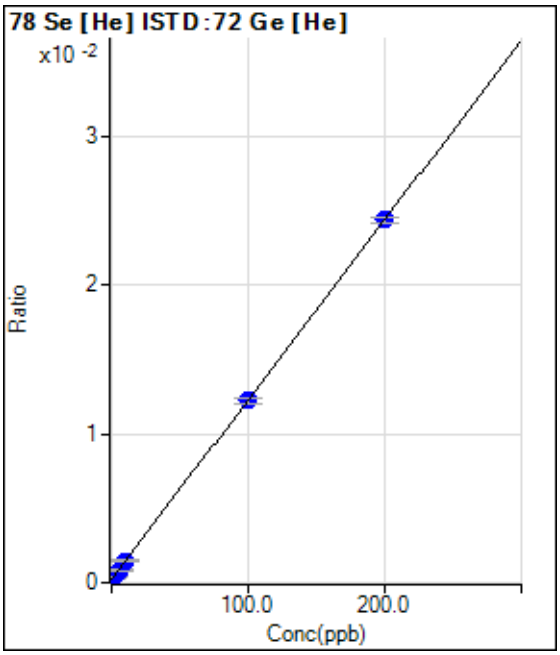
Calibration for 023_ICV.d



	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>

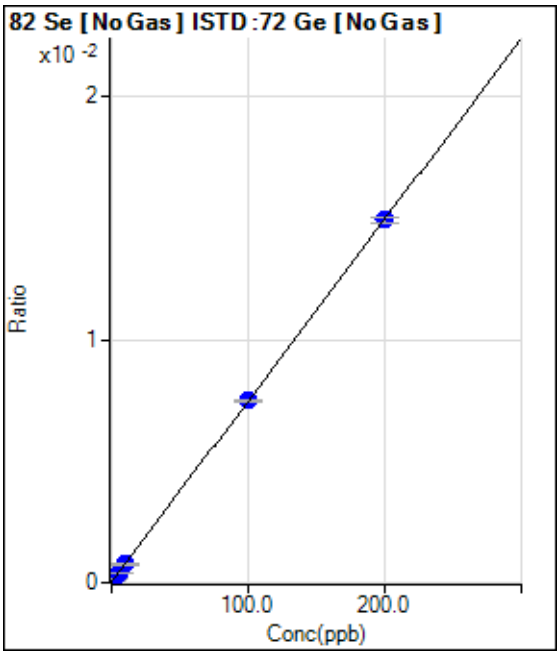


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	171.33	0.0002	P	8.7
2	☐	2.000	1.798	332.67	0.0004	P	4.4
3	☐	5.000	5.076	638.02	0.0008	P	1.9
4	☐	10.000	10.091	1087.38	0.0014	P	10.4
5	☐	100.000	99.689	9219.84	0.0123	P	3.1
6	☐	200.000	200.151	18178.93	0.0244	P	1.4

y = 1.2088E-004 * x + 2.2618E-004
R = 1.0000
DL = 0.4857
BEC = 1.871

Weight: <None>
Min Conc: <None>

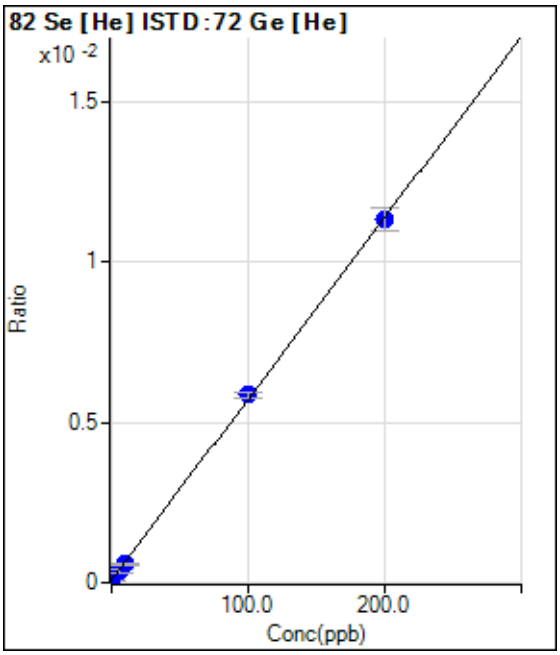
Calibration for 023_ICV.d



	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>

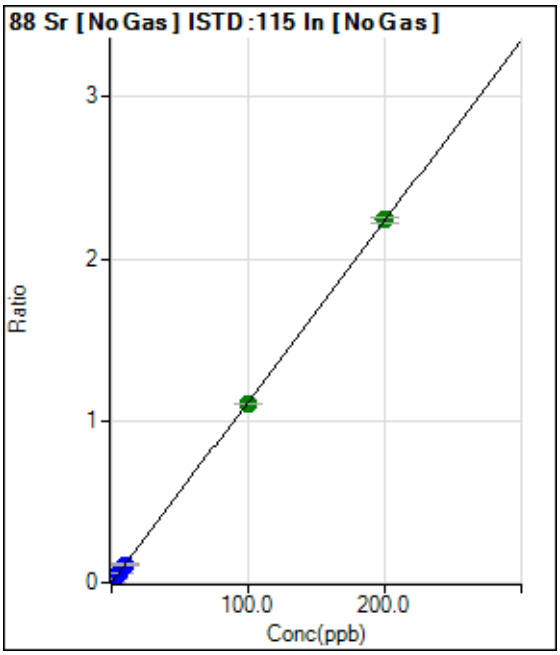


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0001	P	14.9
2	☐	2.000	3.168	193.34	0.0003	P	11.9
3	☐	5.000	4.828	266.68	0.0004	P	23.0
4	☐	10.000	8.732	430.02	0.0006	P	11.2
5	☐	100.000	102.308	4397.49	0.0059	P	2.6
6	☐	200.000	198.902	8412.77	0.0113	P	6.5

y = 5.6434E-005 * x + 7.9124E-005
R = 0.9999
DL = 0.6258
BEC = 1.402

Weight: <None>
Min Conc: <None>

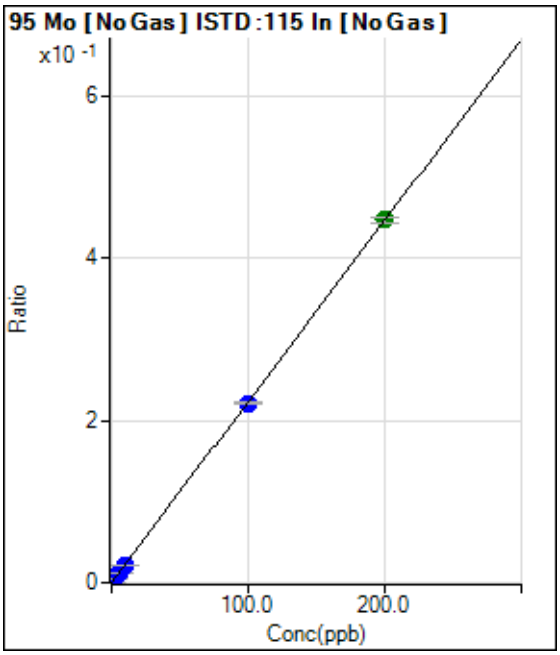
Calibration for 023_ICV.d



	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>

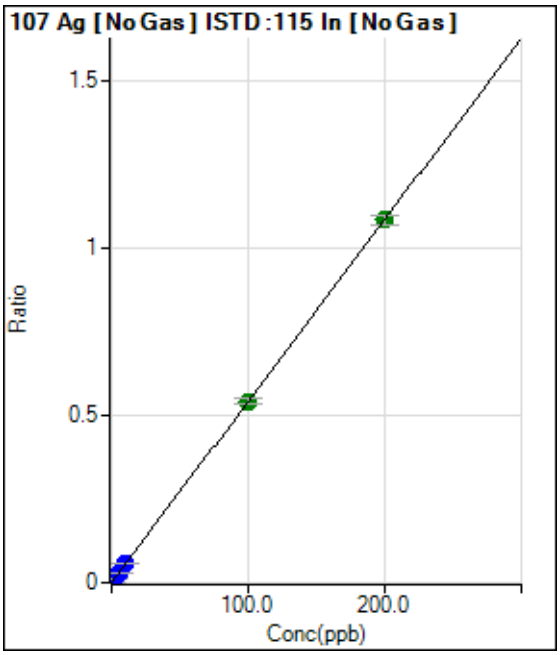


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	140.00	0.0000	P	27.3
2	☐	2.000	1.886	13513.76	0.0043	P	1.3
3	☐	5.000	4.905	34240.96	0.0110	P	1.8
4	☐	10.000	9.662	68170.89	0.0216	P	3.4
5	☐	100.000	99.172	685572.33	0.2215	P	0.9
6	☐	200.000	200.434	1351449.20	0.4476	A	1.7

y = 0.0022 * x + 4.4812E-005
R = 1.0000
DL = 0.01643
BEC = 0.02007

Weight: <None>
Min Conc: <None>

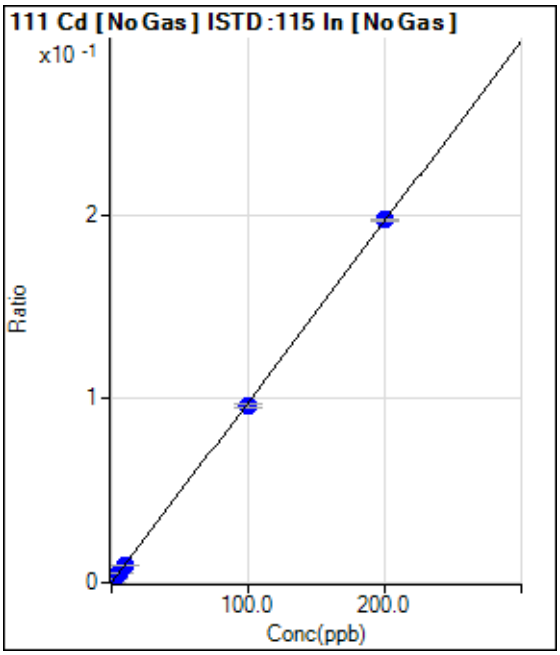
Calibration for 023_ICV.d



	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>

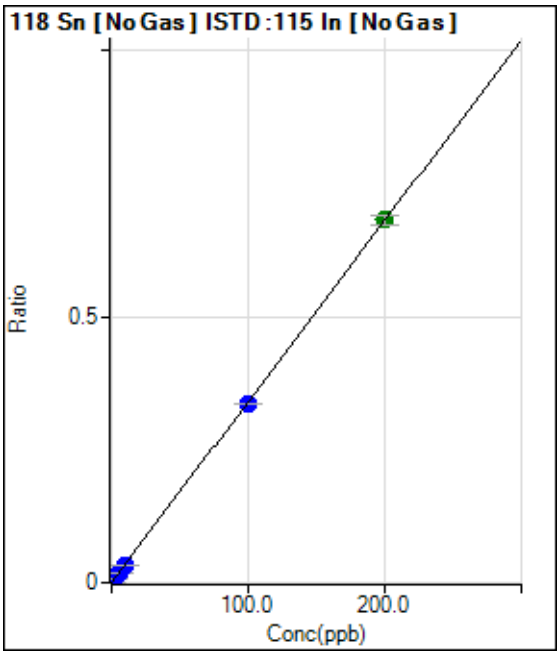


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-4.55	0.0000	P	-131.0
2	☐	2.000	1.921	5982.41	0.0019	P	9.2
3	☐	5.000	5.069	15487.84	0.0050	P	3.6
4	☐	10.000	9.861	30527.66	0.0097	P	1.1
5	☐	100.000	98.295	298703.61	0.0965	P	2.2
6	☐	200.000	200.858	595463.66	0.1972	P	0.7

y = 9.8186E-004 * x - 1.4398E-006
R = 0.9999
DL = 0.005763
BEC = -0.001466

Weight: <None>
Min Conc: <None>

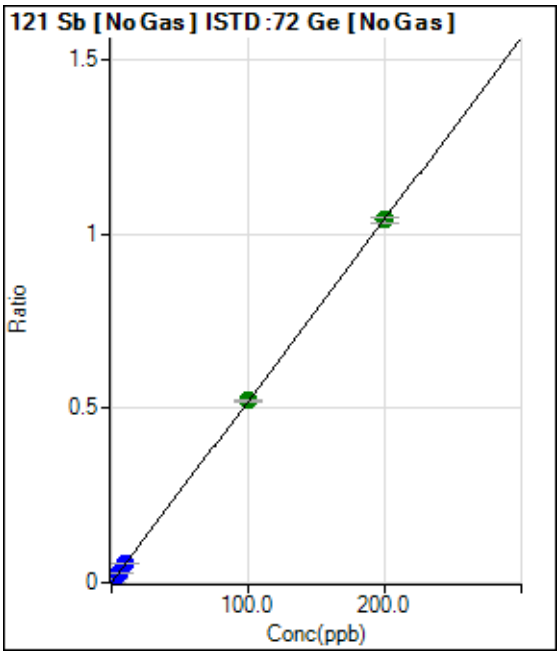
Calibration for 023_ICV.d



	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>

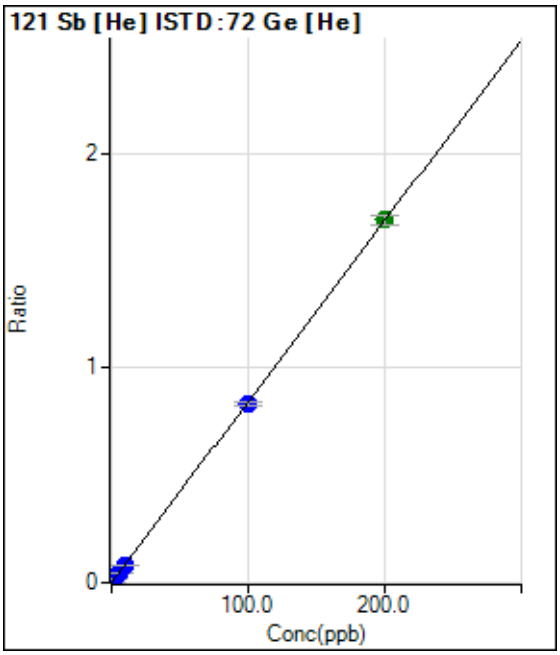


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	463.35	0.0002	P	23.9
2	☐	2.000	2.031	28574.90	0.0107	P	0.3
3	☐	5.000	5.109	71648.44	0.0268	P	1.2
4	☐	10.000	10.233	142093.97	0.0534	P	2.6
5	☐	100.000	100.335	1383797.95	0.5221	A	0.6
6	☐	200.000	199.818	2719607.25	1.0397	A	1.7

y = 0.0052 * x + 1.7291E-004
R = 1.0000
DL = 0.02383
BEC = 0.03324

Weight: <None>
Min Conc: <None>

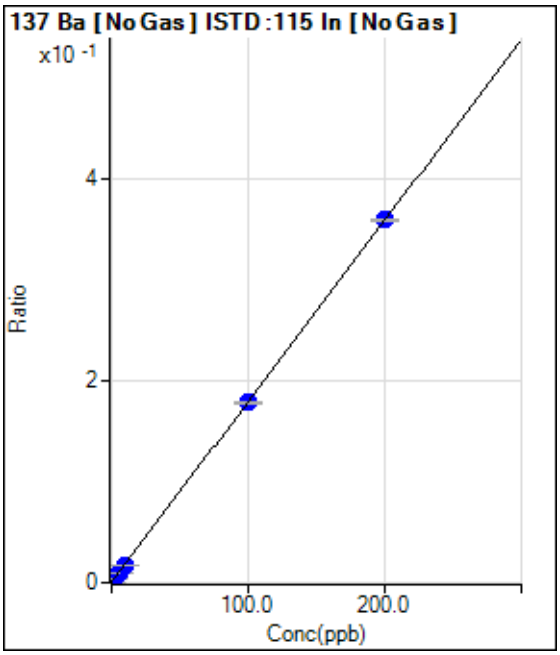
Calibration for 023_ICV.d



	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>

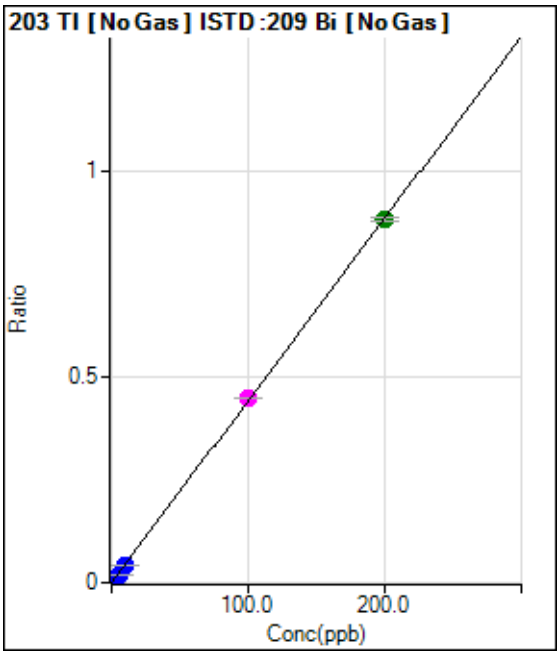


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1546.79	0.0005	P	0.2
2	☐	2.000	1.725	11401.89	0.0036	P	0.7
3	☐	5.000	4.871	28755.59	0.0092	P	3.0
4	☐	10.000	9.567	55679.50	0.0177	P	1.6
5	☐	100.000	99.274	552712.76	0.1786	P	1.6
6	☐	200.000	200.391	1086852.98	0.3600	P	0.8

y = 0.0018 * x + 4.9652E-004
R = 1.0000
DL = 0.00205
BEC = 0.2768

Weight: <None>
Min Conc: <None>

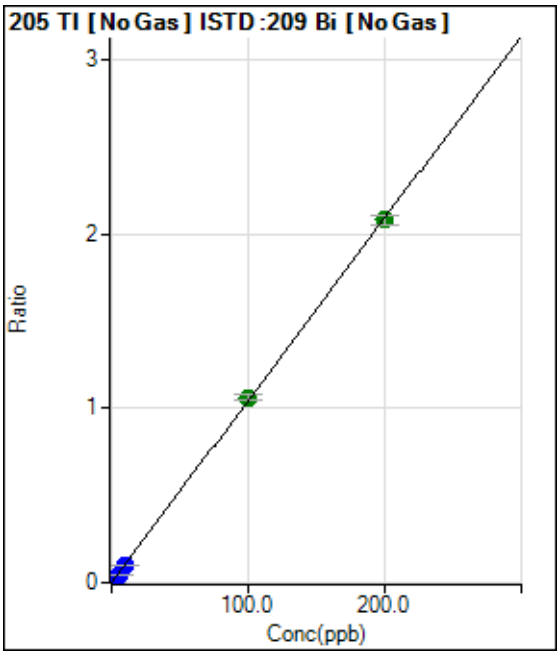
Calibration for 023_ICV.d



	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>

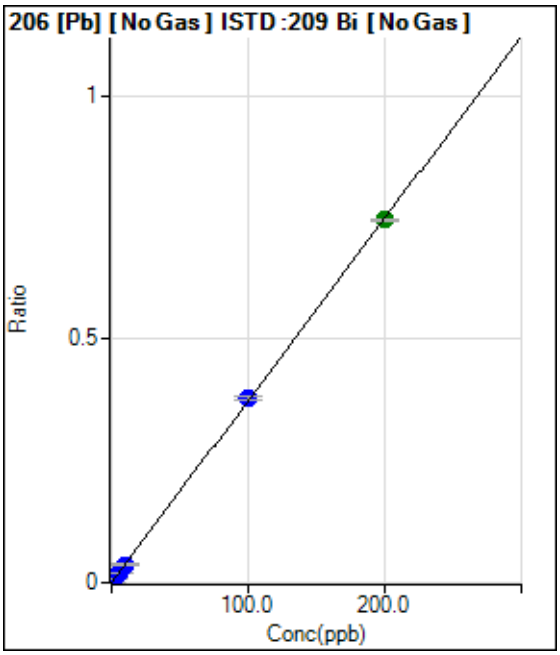


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	283.34	0.0001	P	18.0
2	☐	2.000	1.887	49632.51	0.0198	P	3.1
3	☐	5.000	4.660	124561.20	0.0488	P	2.0
4	☐	10.000	9.318	248772.89	0.0974	P	0.9
5	☐	100.000	101.732	2678350.11	1.0620	A	3.5
6	☐	200.000	199.178	5148943.26	2.0791	A	2.4

y = 0.0104 * x + 1.1087E-004
R = 0.9999
DL = 0.005729
BEC = 0.01062

Weight: <None>
Min Conc: <None>

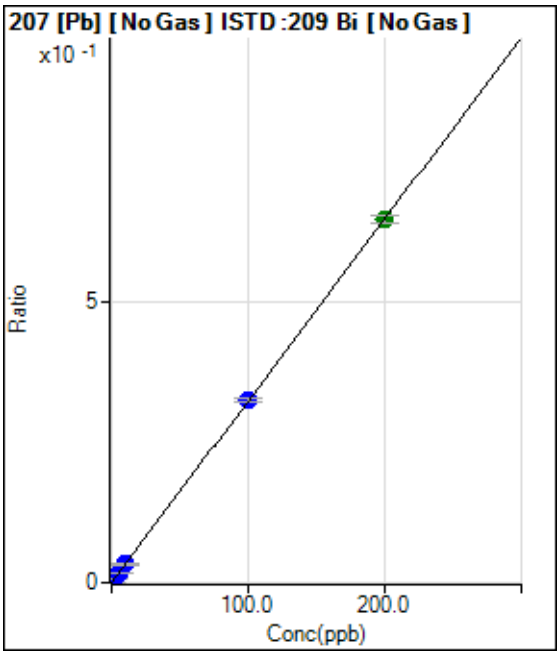
Calibration for 023_ICV.d



	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

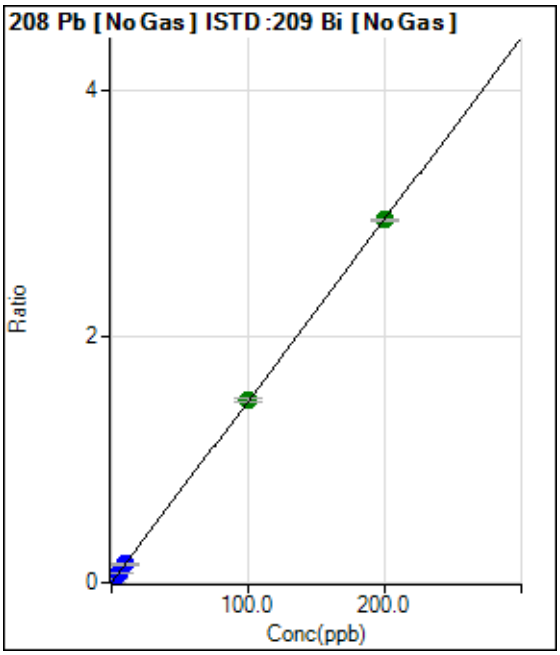
Weight: <None>
Min Conc: <None>



	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

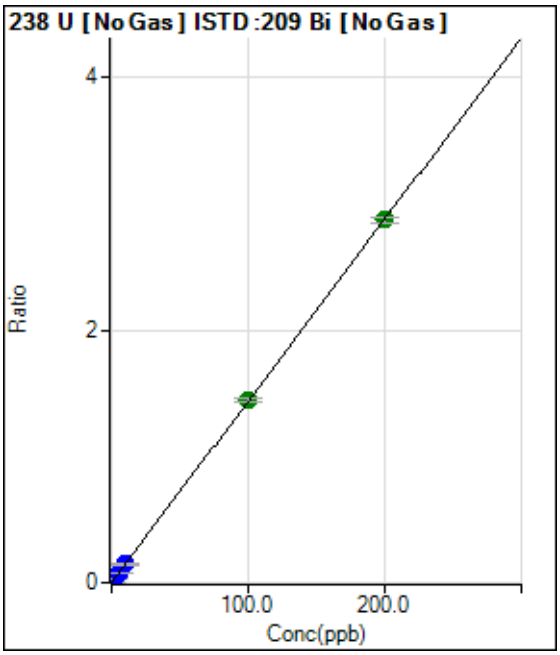
Weight: <None>
Min Conc: <None>



	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>

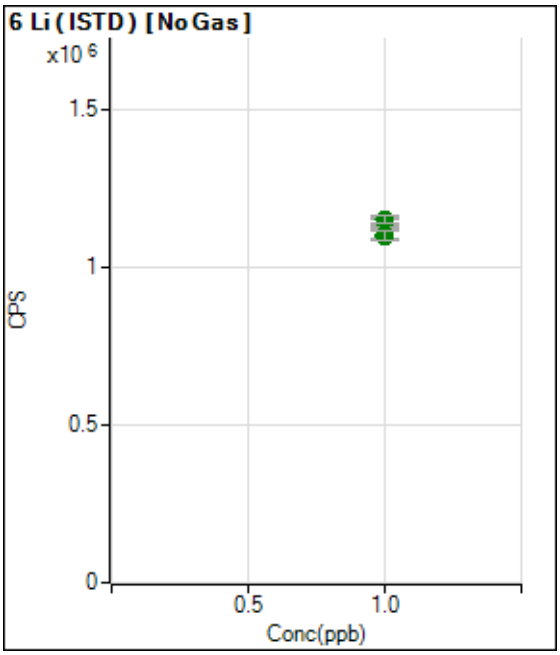


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.67	0.0000	P	19.5
2	☐	2.000	2.011	72474.04	0.0289	P	0.5
3	☐	5.000	5.065	186112.24	0.0728	P	1.7
4	☐	10.000	10.085	370503.80	0.1450	P	1.8
5	☐	100.000	100.282	3637394.01	1.4421	A	2.0
6	☐	200.000	199.853	7117424.90	2.8740	A	1.3

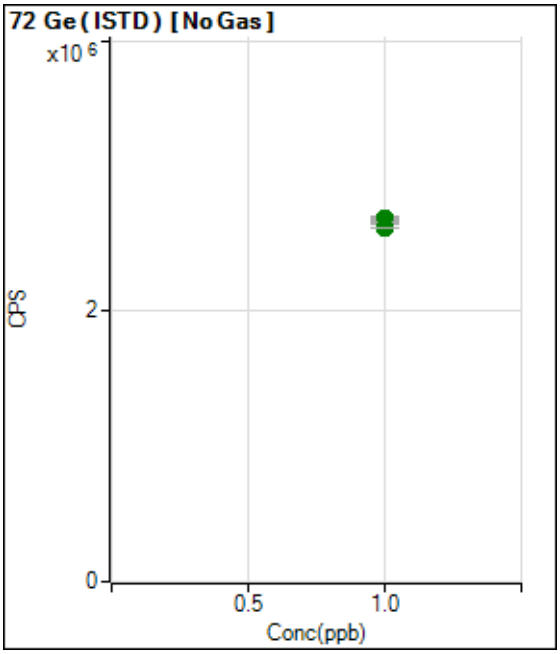
y = 0.0144 * x + 1.0377E-005
R = 1.0000
DL = 0.0004223
BEC = 0.0007216

Weight: <None>
Min Conc: <None>

Calibration for 023_ICV.d

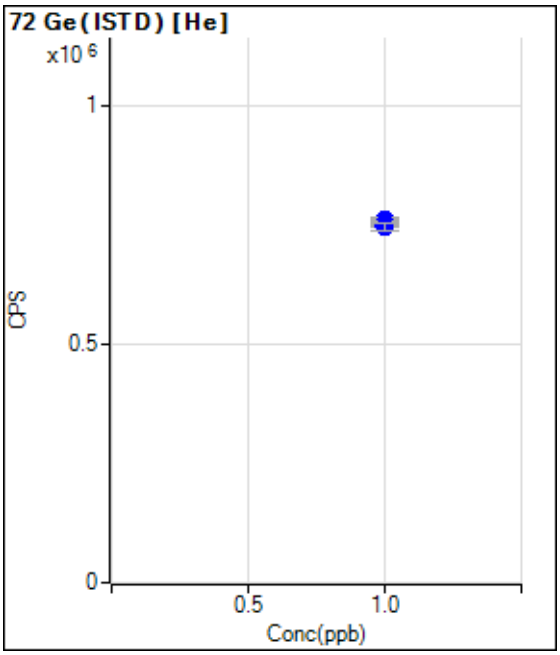


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1128563.62		A	1.5
2	☐	1.000		1142982.71		A	1.3
3	☐	1.000		1143317.26		A	2.3
4	☐	1.000		1150744.25		A	2.0
5	☐	1.000		1105397.12		A	1.9
6	☐	1.000		1100392.77		A	2.7

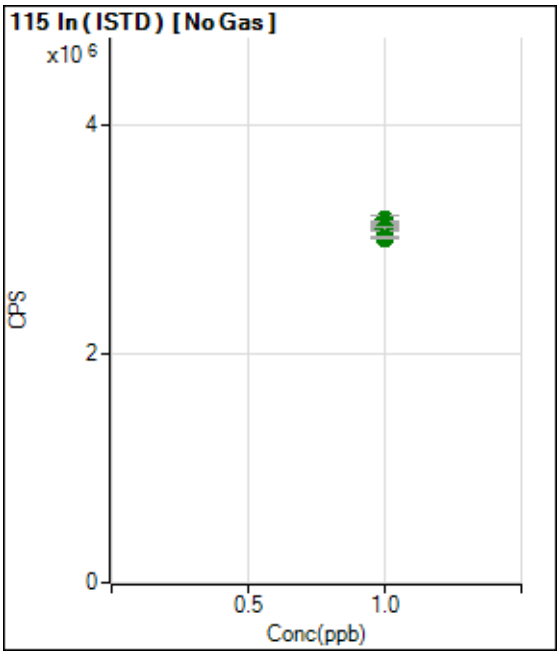


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2681639.65		A	1.8
2	☐	1.000		2661020.79		A	0.4
3	☐	1.000		2678438.08		A	0.9
4	☐	1.000		2661232.25		A	1.3
5	☐	1.000		2650268.30		A	0.7
6	☐	1.000		2615755.74		A	0.2

Calibration for 023_ICV.d

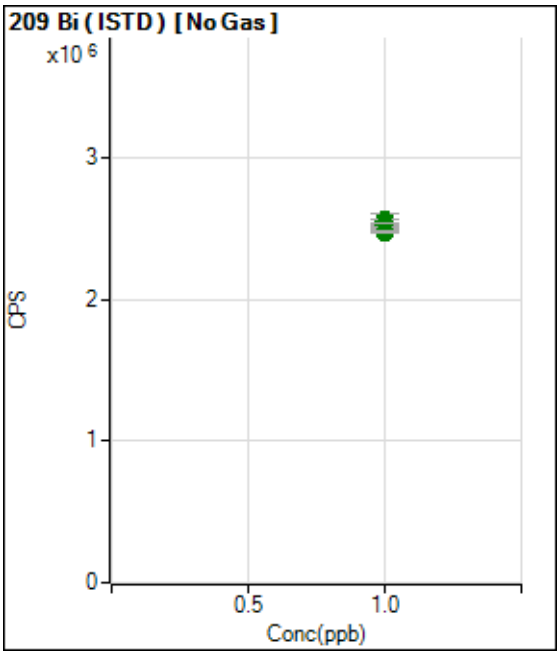


	Rjct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		756956.55		P	1.8
2	☐	1.000		750338.74		P	1.3
3	☐	1.000		759875.09		P	1.8
4	☐	1.000		752924.26		P	2.0
5	☐	1.000		751187.54		P	1.4
6	☐	1.000		744454.91		P	2.1



	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	HS23031291-01SD
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	HS23031294-01
Data File Name	041SMPL.d
Data Path Name	C:\Agilent\ICPMH\1\DATA\032923A.b
Acq Date Time	2023-03-29T11:32:27-05:00
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	26.874	26.874	1.39	457669	0.01	2000	
Be	9	1	No Gas	0.103	0.103	15.37	375	0.03	2000	
V	51	2	He	0.477	0.477	4.47	5260	0.01	2000	
Cr	52	2	He	0.036	0.036	74.40	15940	0.00	2000	
Fe	56	2	He	219.466	219.466	1.65	1413943	0.02	200000	
Se	78	2	He	0.546	0.546	46.77	225	0.24	2000	
As	75	2	He	0.623	0.623	7.62	830	0.08	2000	
Ca	44	2	He	33247.969	33247.969	0.70	1530587	2.17	200000	
Na	23	2	He	166906.962	166906.962	0.81	190952044	0.09	200000	
Mg	24	2	He	25808.519	25808.519	0.79	17095268	0.15	200000	
K	39	2	He	995.339	995.339	1.41	952047	0.10	200000	
Mn	55	2	He	294.592	294.592	1.80	1596148	0.02	2000	
Co	59	2	He	4.036	4.036	1.24	40363	0.01	2000	
Ni	60	2	He	9.905	9.905	4.66	24402	0.04	2000	
Cu	63	2	He	4.591	4.591	0.74	30785	0.01	2000	
Zn	66	2	He	14.131	14.131	1.37	17638	0.08	2000	
Al	27	2	He	33.191	33.191	7.62	14702	0.23	2000	
B	11	1	No Gas	33.463	33.463	0.59	76303	0.04	2000	
Al	27	1	No Gas	38.144	38.144	7.93	609564	0.01	2000	
Si	28	1	No Gas	16052.182	16052.182	2.52	119945492	0.01	2000	>LDR
Ag	107	1	No Gas	0.035	0.035	24.06	720	0.00	2000	
Cd	111	1	No Gas	0.137	0.137	13.00	398	0.03	2000	
Sr	88	1	No Gas	649.219	649.219	2.10	21679254	0.00	2000	
Mo	95	1	No Gas	0.526	0.526	1.90	3644	0.01	2000	
Sn	118	1	No Gas	0.074	0.074	3.76	2204	0.00	2000	
Sb	121	1	No Gas	0.507	0.507	10.53	7432	0.01	2000	
Ba	137	1	No Gas	288.379	288.379	2.76	1548235	0.02	2000	
Tl	205	1	No Gas	0.113	0.113	34.31	2880	0.00	2000	
Tl	203	1	No Gas	0.126	0.126	29.90	1377	0.01	2000	
Pb	208	1	No Gas	0.161	0.161	6.00	6237	0.00	2000	
U	238	1	No Gas	0.939	0.939	2.25	30034	0.00	2000	
Ca	43	2	He	34966.087	34966.087	1.06	95315	36.68	200000	
Sb	121	2	He	0.407	0.407	9.77	2844	0.01	2000	
Ti	47	2	He	1.234	1.234	23.45	337	0.37	2000	
Cu	63	1	No Gas	6.453	6.453	0.66	80712	0.01	2000	
Zn	66	1	No Gas	14.210	14.210	2.31	47259	0.03	2000	
Se	82	1	No Gas	1.072	1.072	32.58	274	0.39	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	1178822	1.53	1128564	104.45	70	120	
Ge	72	2	He	768989	0.16	756957	101.59	70	120	
Ge	72	1	No Gas	2641046	1.32	2681640	98.49	70	120	
In	115	1	No Gas	2990370	0.69	3115345	95.99	70	120	
Bi	209	1	No Gas	2223446	0.20	2561633	86.80	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	HS23031291-01SD
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

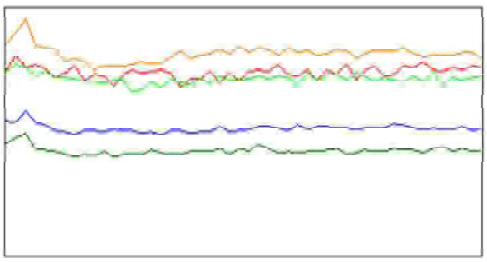
Name	Mass	Tune Step	Tune Mode	CPS	%RSD	Ref CPS	%Rec	%QC Low	%QC High	QC Flag
Li	6	1	No Gas	1067118	2.04	1128564	94.56	70	120	
Ge	72	2	He	724374	0.73	756957	95.70	70	120	
Ge	72	1	No Gas	2526293	0.67	2681640	94.21	70	120	
In	115	1	No Gas	2970547	1.71	3115345	95.35	70	120	
Bi	209	1	No Gas	2420750	0.08	2561633	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	

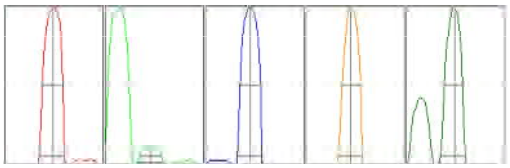
Mass	Background	Background (Required)	Background (Flag)
9	2.500		
24	2.500		
59	2.300		
115	2.200		
208	3.300		

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

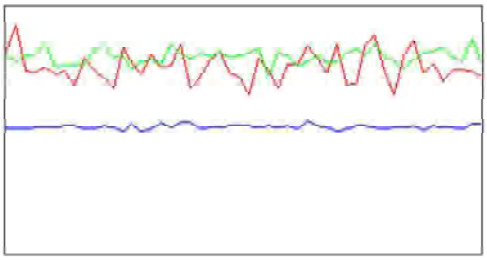
EM

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		-	

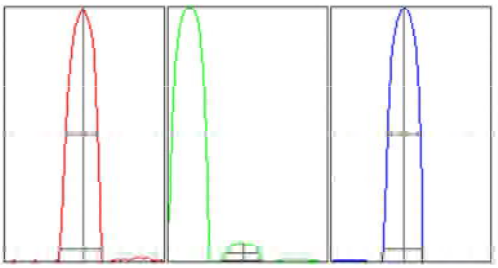
Mass	RSD%	RSD% (Required)	RSD% (Flag)
9	8.154	5.000	Fail
24	3.659	5.000	
59	1.667	5.000	

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

HS23031294 Wet Chemistry

ALS WO# HS23031294

HS2303 1294

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		
HS2303 1129-02					26		
↓ -02MS					76		
↓ -02MSD				↓	74		
HS2303 1442-01				20	117		
↓ -02				200	125		
HS2303 1191-02				2	122		
HS2303 1258-02		↓	↓	2	120		
CAL100		2	2	1	100		
HS2303 1291-01		↓	↓	↓	25		
HS2303 1294-01				↓	20		
HS2303 1445-06				5	88		
HS2303 1512-01				100	90		
HS2303 1369-01				1	130		
HS2303 1092-01				5	103		
HS2303 1093-01				5	79		
HS2303 1130-02				1	64		
HS2303 1131-02				↓	35		
HS2303 1351-01		↓	↓	↓	91		
CAL50		2	2	1	49		

LCS ID # 321-101-304	**CCV1 ID#** 321-101-305	**CCV2 ID#** 321-101-306	**Vial Lot#:** 310-060-5819	**Reviewed By:**
LCS Prep Date: 01-10-23	**Prep Date:** →	**Prep Date:** →	**MS ID:** 310-060-7009	***Pipette ID:*** WC9, COD
Digestor ID: DRB 200	**Digestor *Temp* (°C):** 150	**Date/Time In Digestor:** 3-27-23 10:00	**Date/Time Off Digestor:** 3-27-23 12:00	**Batch ID:** 431068

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HS23031194

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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			

$$\text{O \& G (HEM), mg/L} = \frac{\text{Weight (HEM, mg)}}{\text{Volume (Sample Extracted, L)}}$$

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

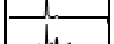
HS23031294 9056_W IC

ALS WO# HS23031294

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
	HS23031294-01		Unknown	RB3	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23031294-01DF10		Unknown	RB4	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	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		HS23031294-01	5.0	Finished	3/27/2023 2:30:42 PM -05:00
Anions Processing Method ISO		HS23031294-01DF10	5.0	Finished	3/27/2023 2:36:30 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

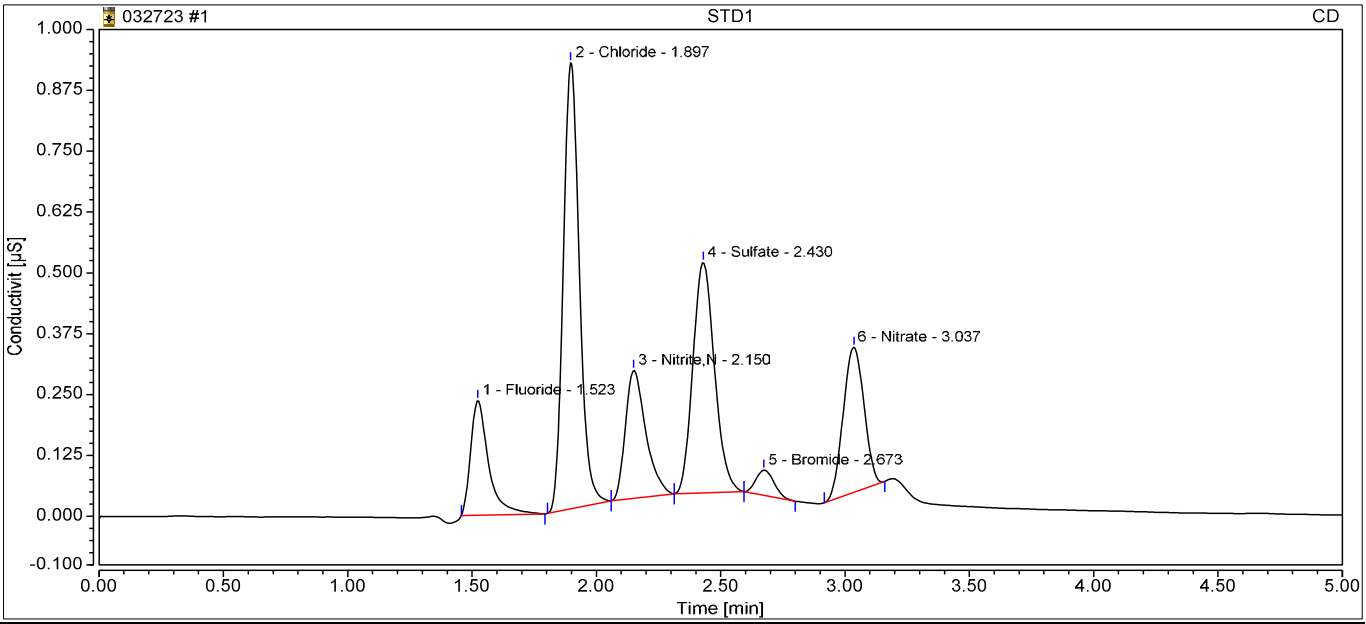
Calibration

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:



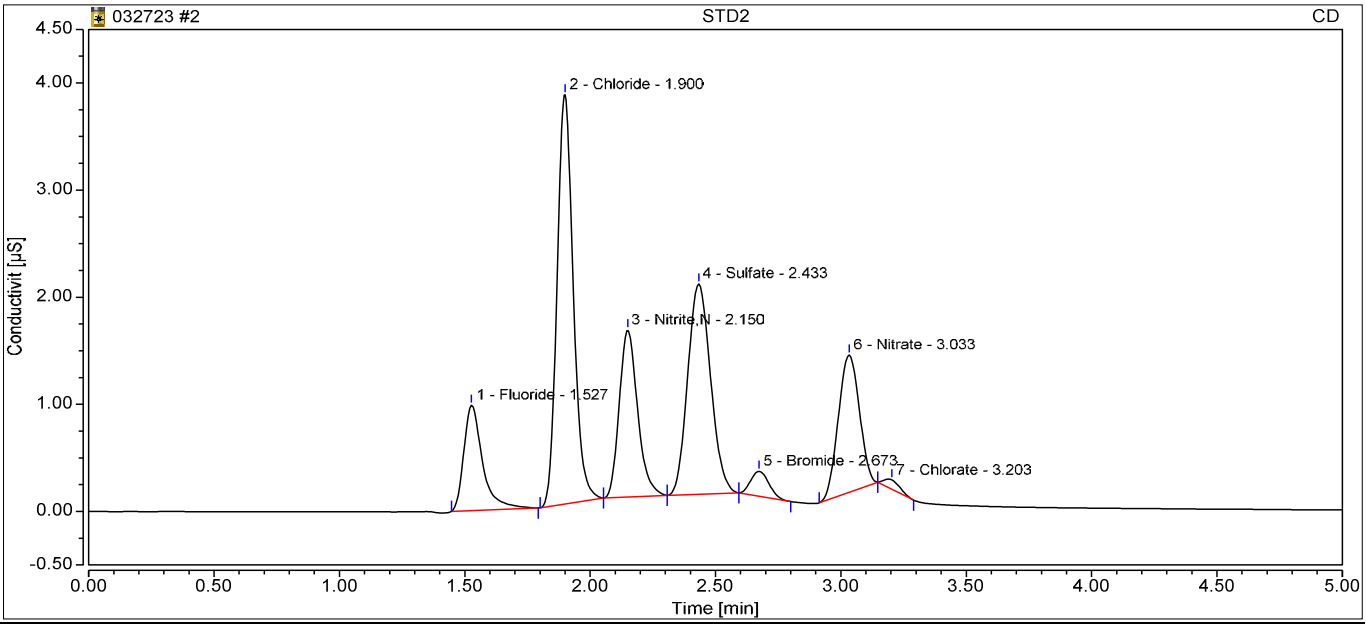
Integration Results

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:

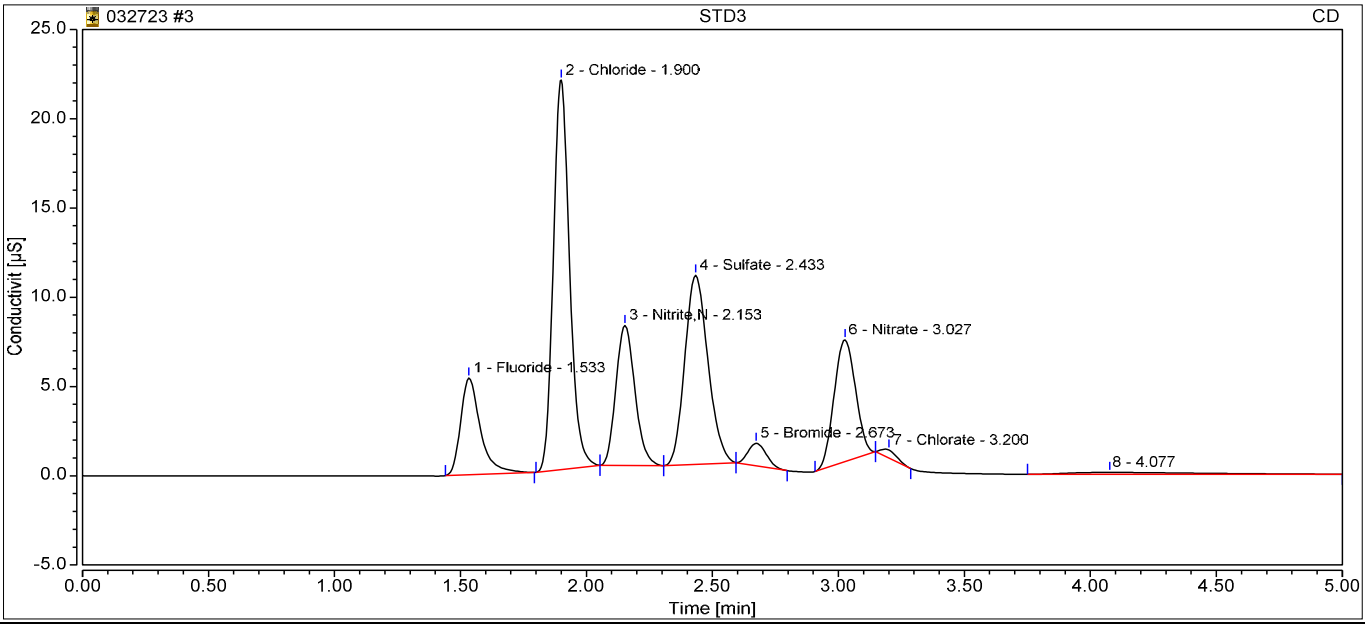


Integration Results

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:



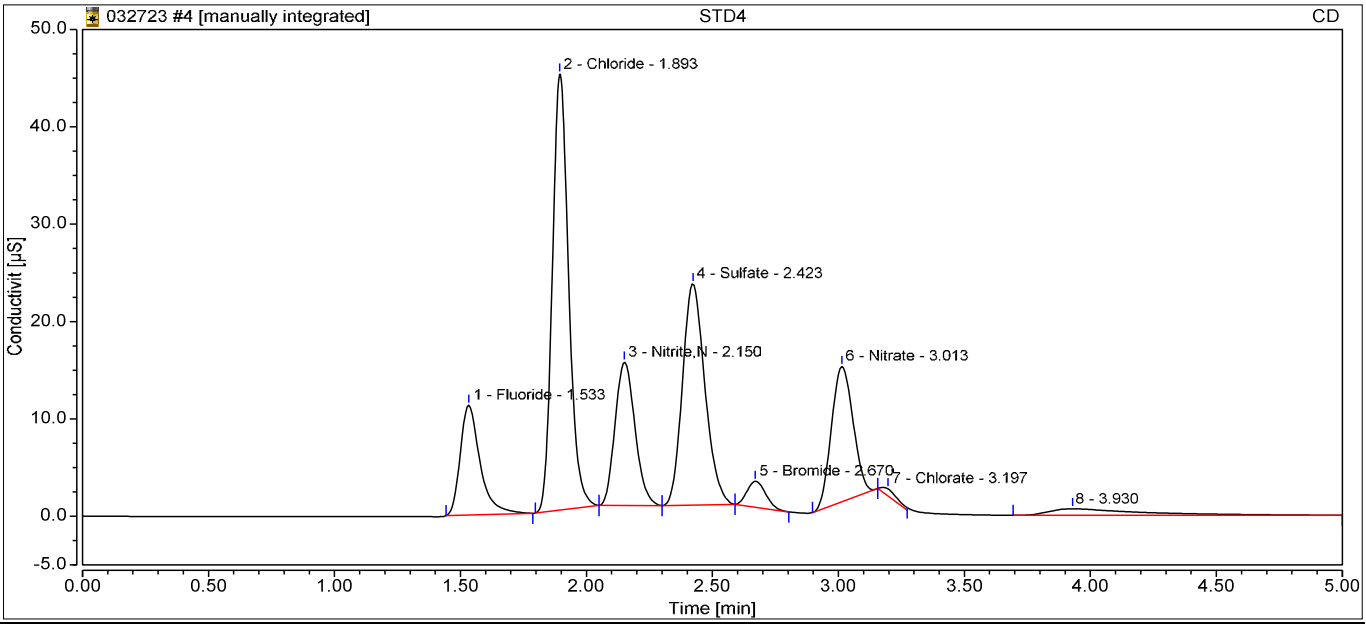
Integration Results

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:

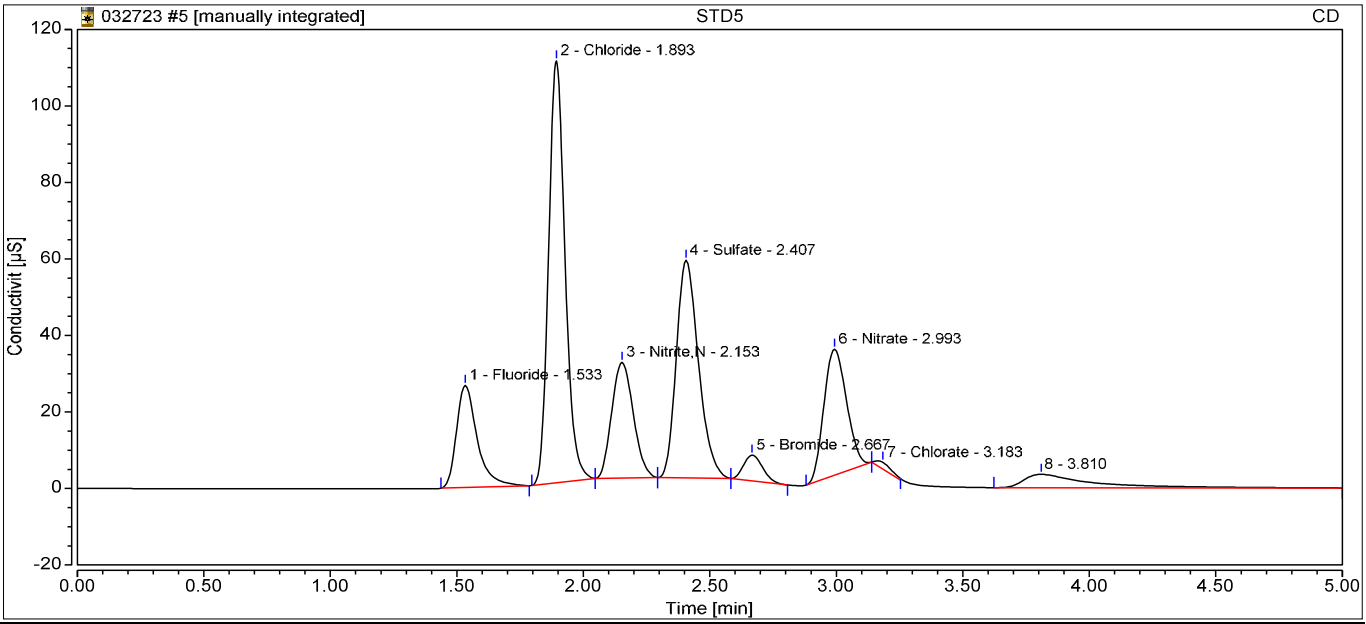


Integration Results

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:

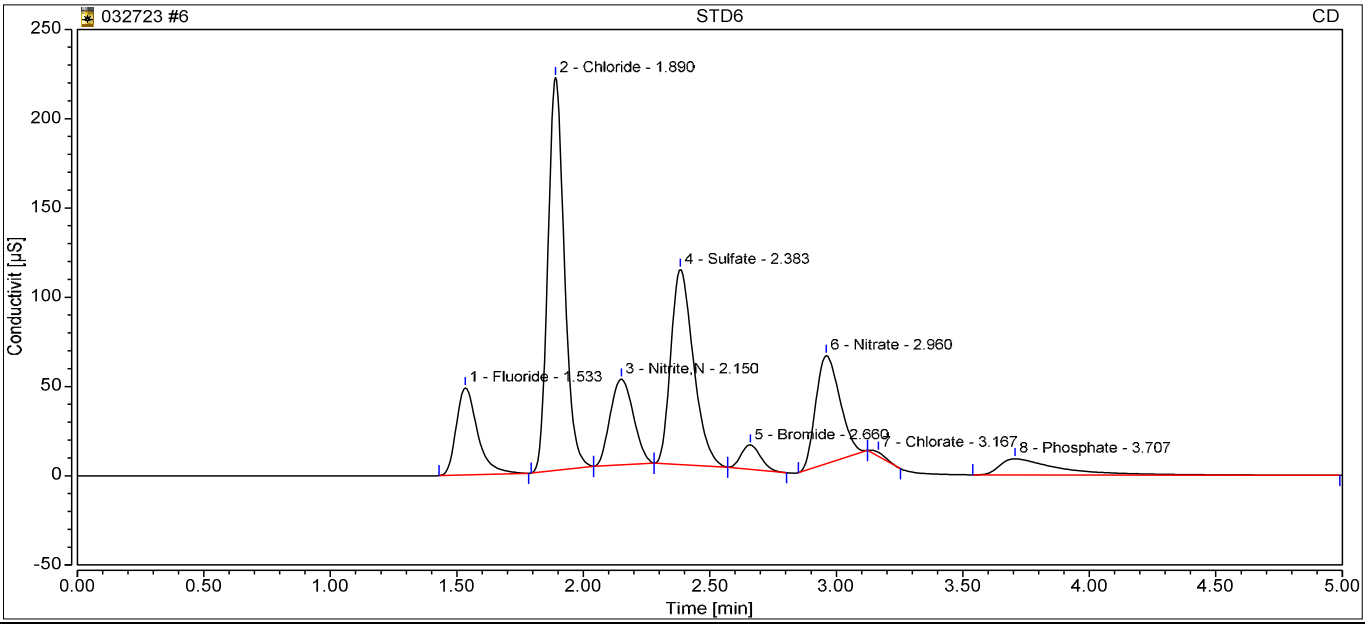


Integration Results

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:



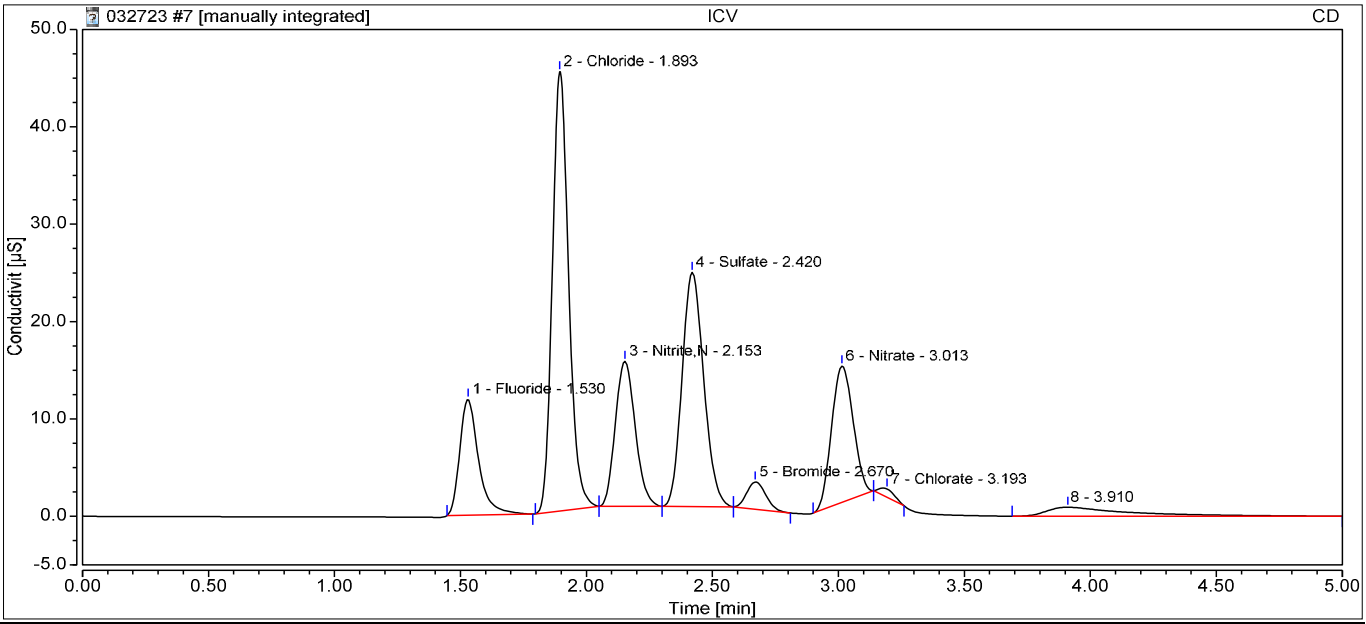
Integration Results

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:



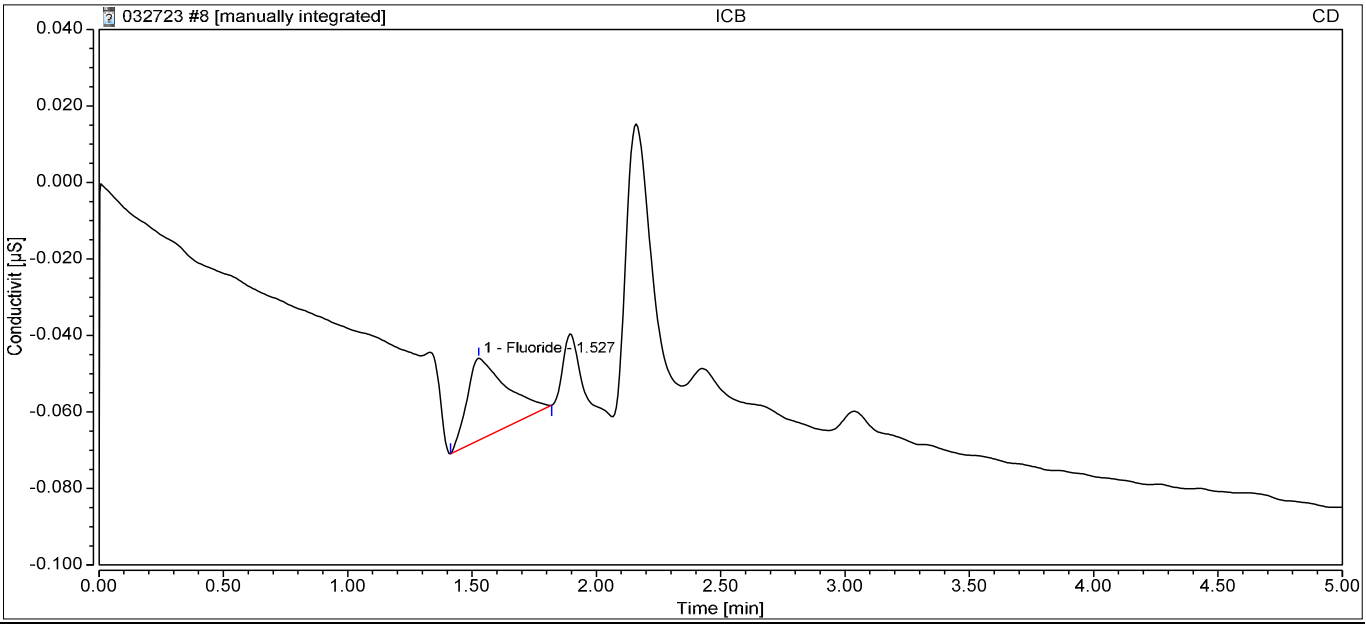
Integration Results

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:

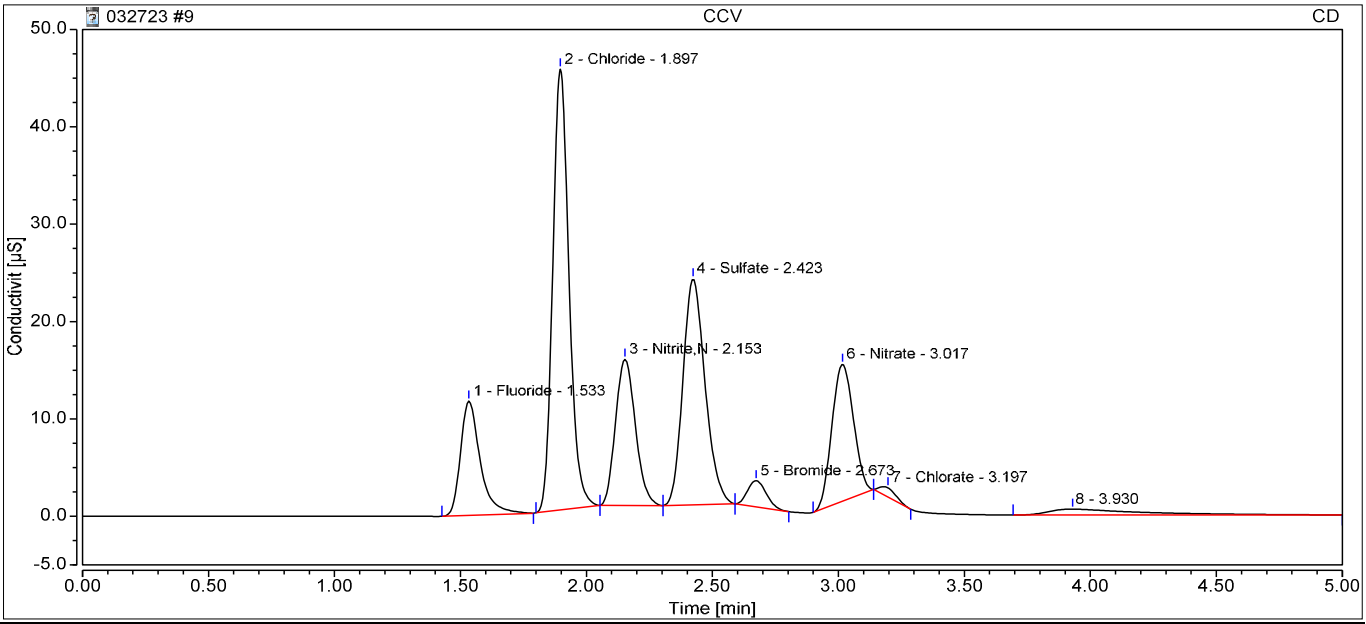


Integration Results

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:



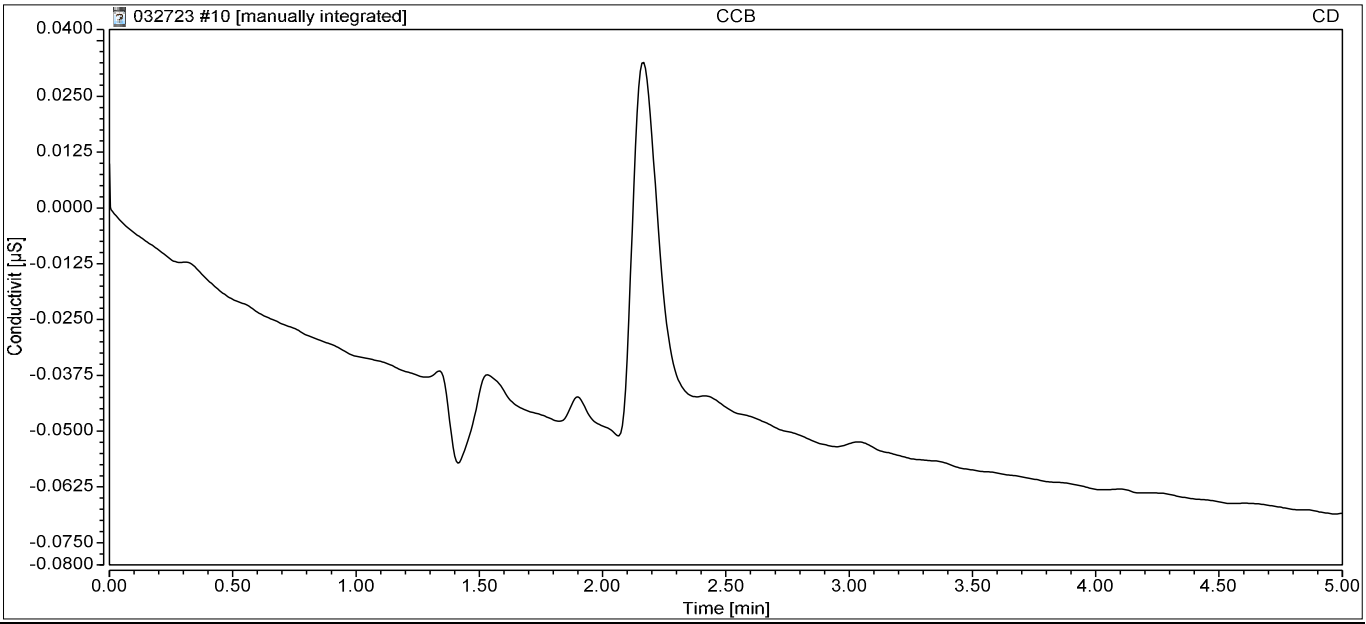
Integration Results

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:



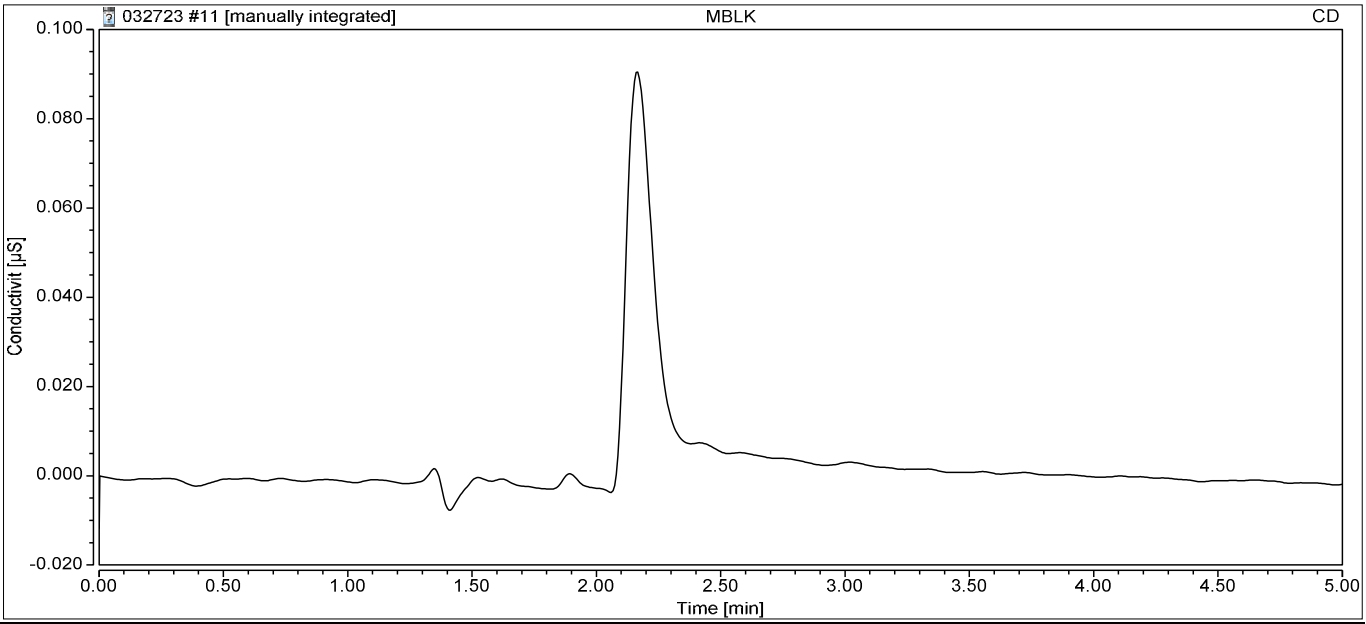
Integration Results

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:



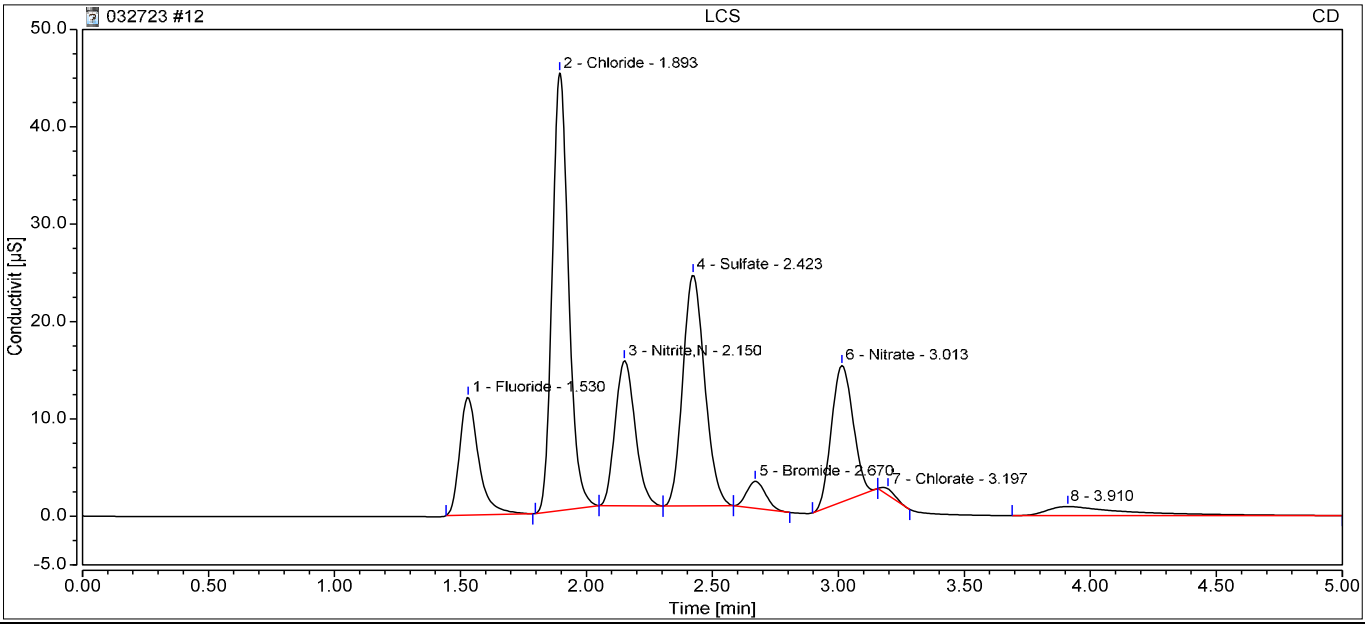
Integration Results

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:

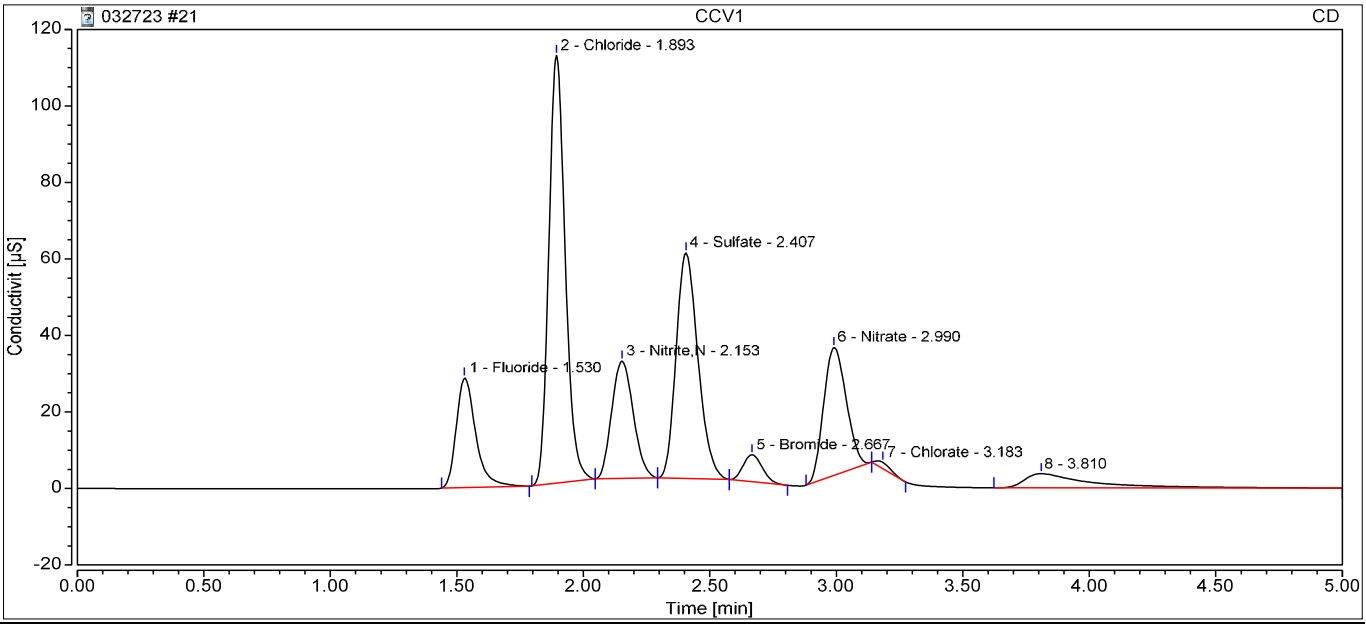


Integration Results

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:



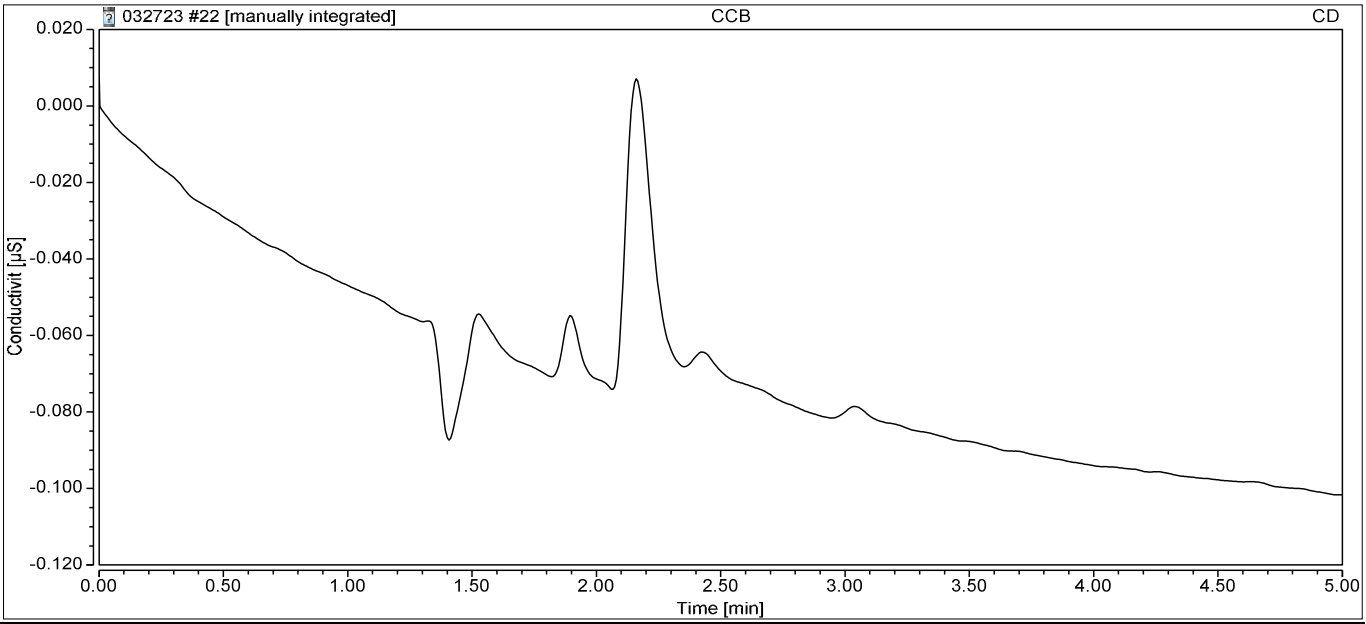
Integration Results

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:

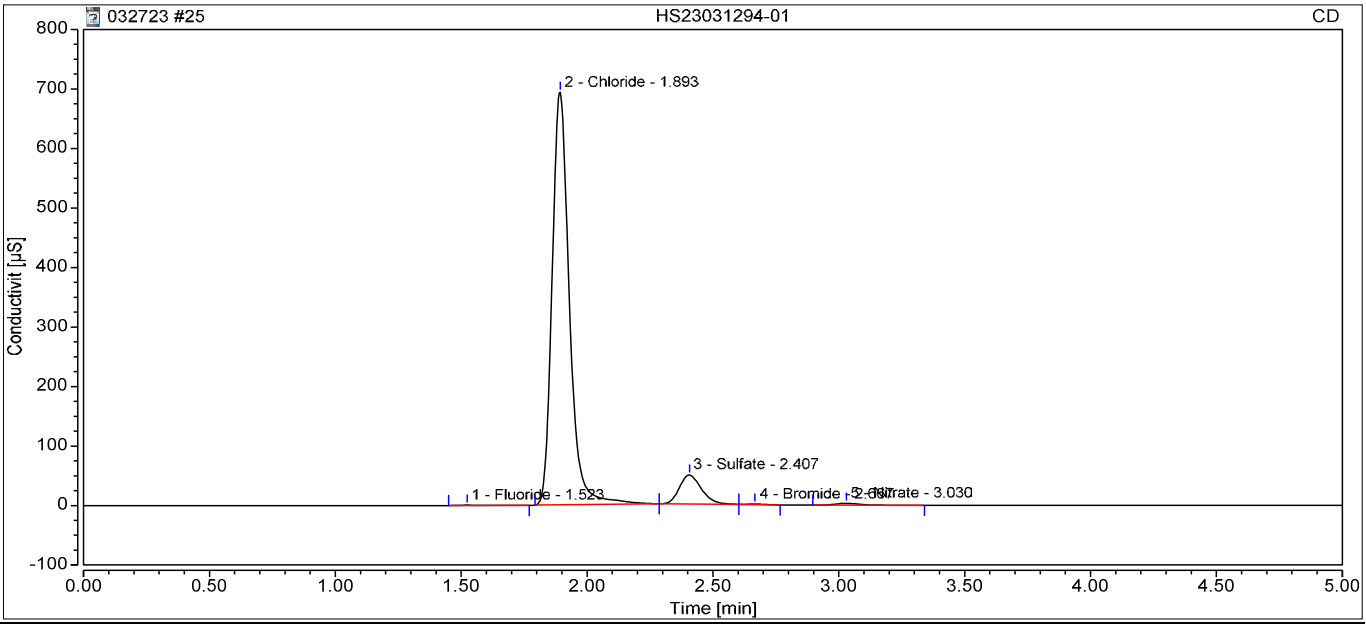


Integration Results

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**	

25 HS23031294-01			
Sample Name:	**HS23031294-01**	*Injection Volume:*	**5.00**
Vial Number:	**RB3**	*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 14:30**	*Sample Weight:*	**1.0000**

Run Time:



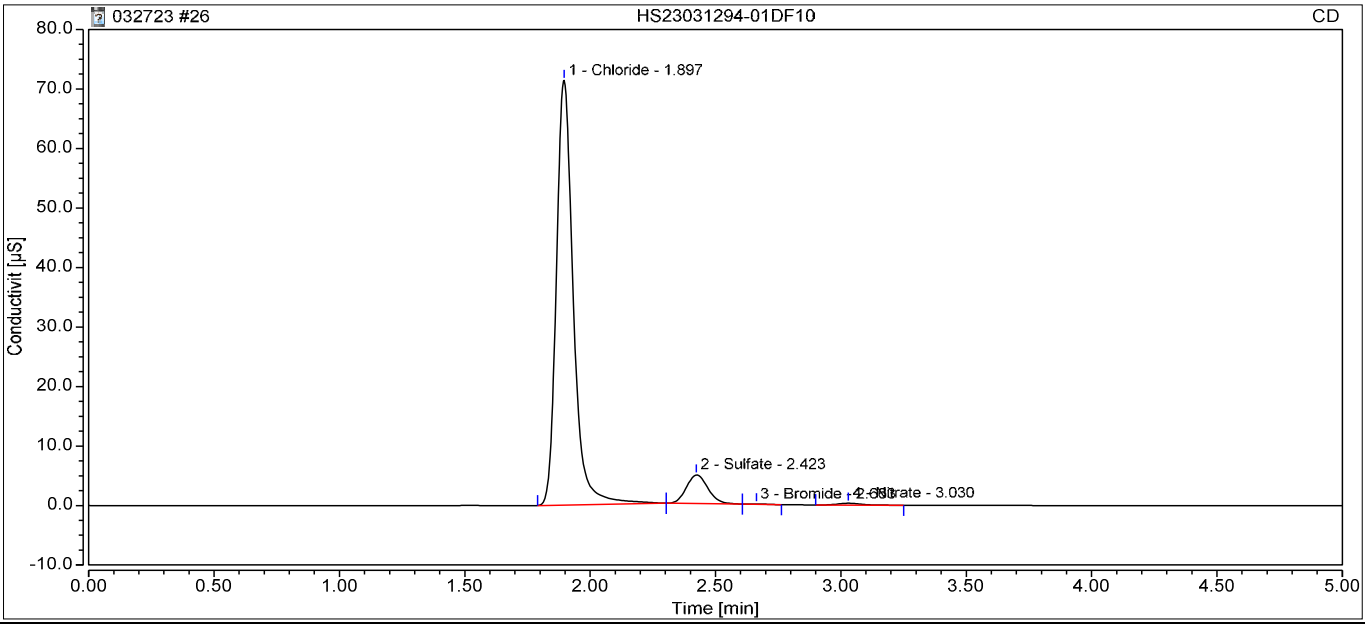
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.049	0.2177	0.2177	1.0000
2	1.89	Chloride	BMB	55.015	331.2174	331.2174	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.41	Sulfate	BMB	4.915	42.9615	42.9615	1.0000
4	2.67	Bromide	BMB	0.054	0.9488	0.9488	1.0000
5	3.03	Nitrate	BMB	0.332	0.9952	0.9952	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**	**60.365**		**376.34**	

26 HS23031294-01DF10

Sample Name:	**HS23031294-01DF10**	*Injection Volume:*	**5.00**
Vial Number:	**RB4**	*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:	**03/27/2023 14:36**	*Sample Weight:*	**1.0000**

Run Time:



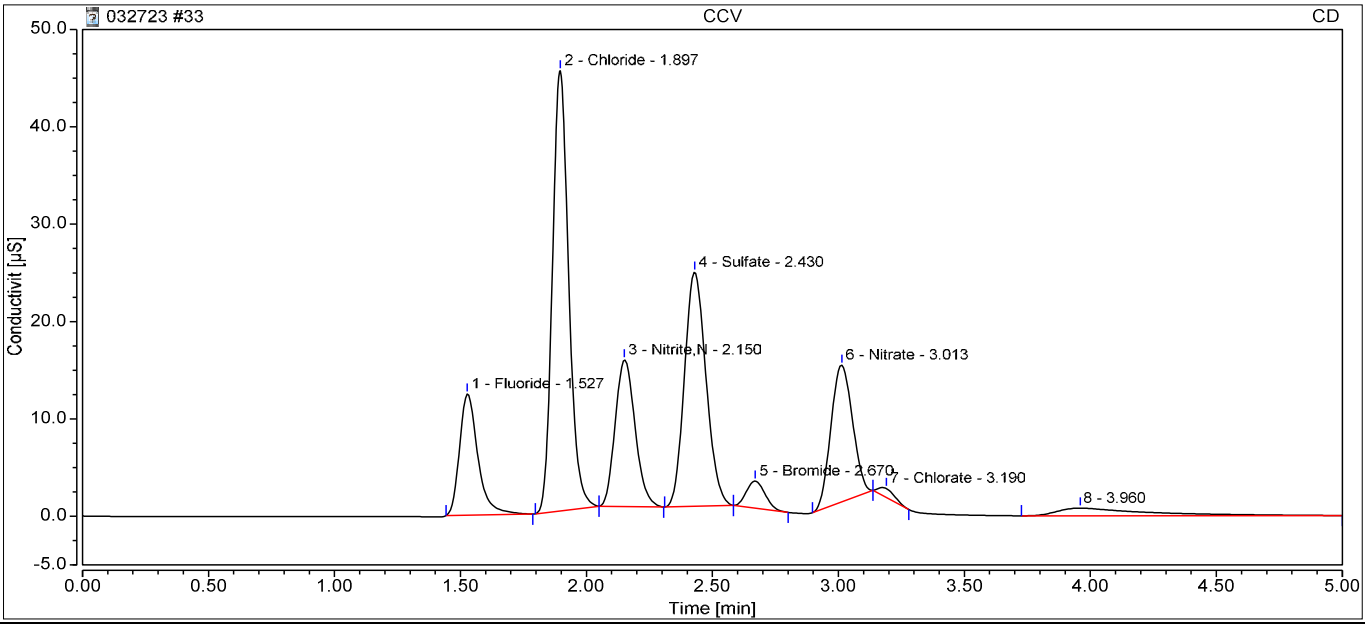
Integration Results

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
1	1.90	Chloride	BMB	5.587	33.7452	337.4522	10.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	10.0000
2	2.42	Sulfate	BMB	0.478	4.2617	42.6173	10.0000
3	2.66	Bromide	BMB	0.004	0.1142	1.1421	10.0000
4	3.03	Nitrate	BMB	0.032	0.1094	1.0936	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**	**6.100**		**382.31**	

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:



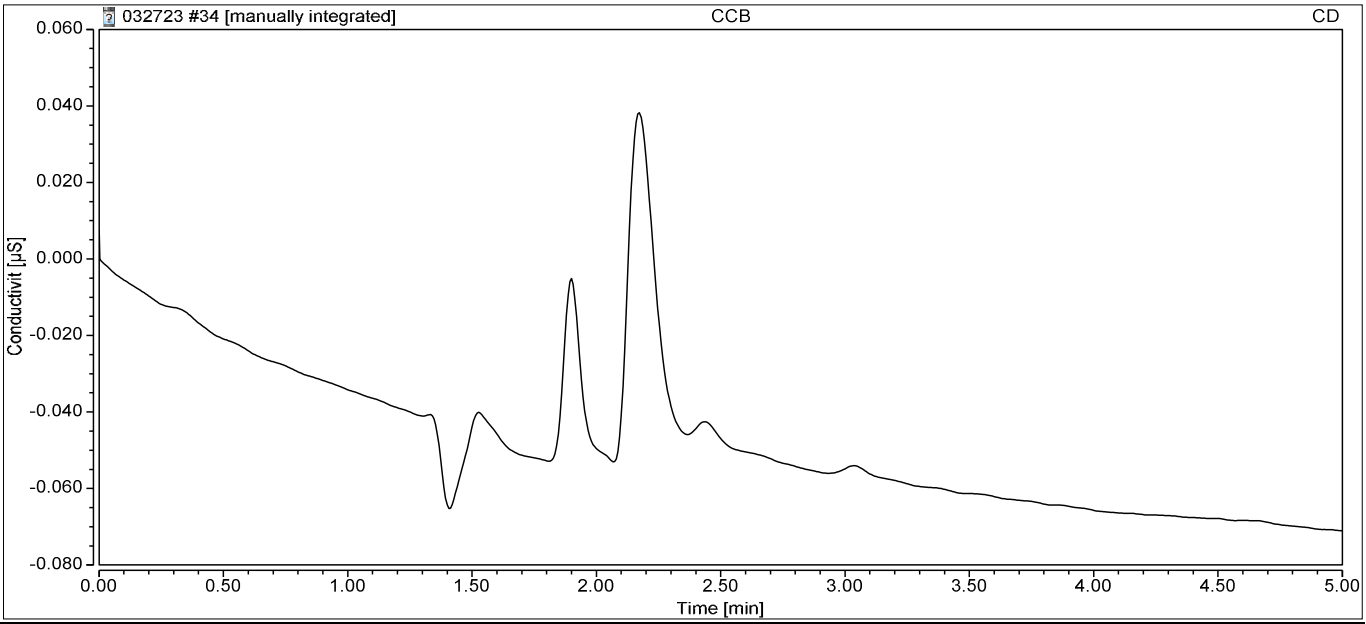
Integration Results

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:



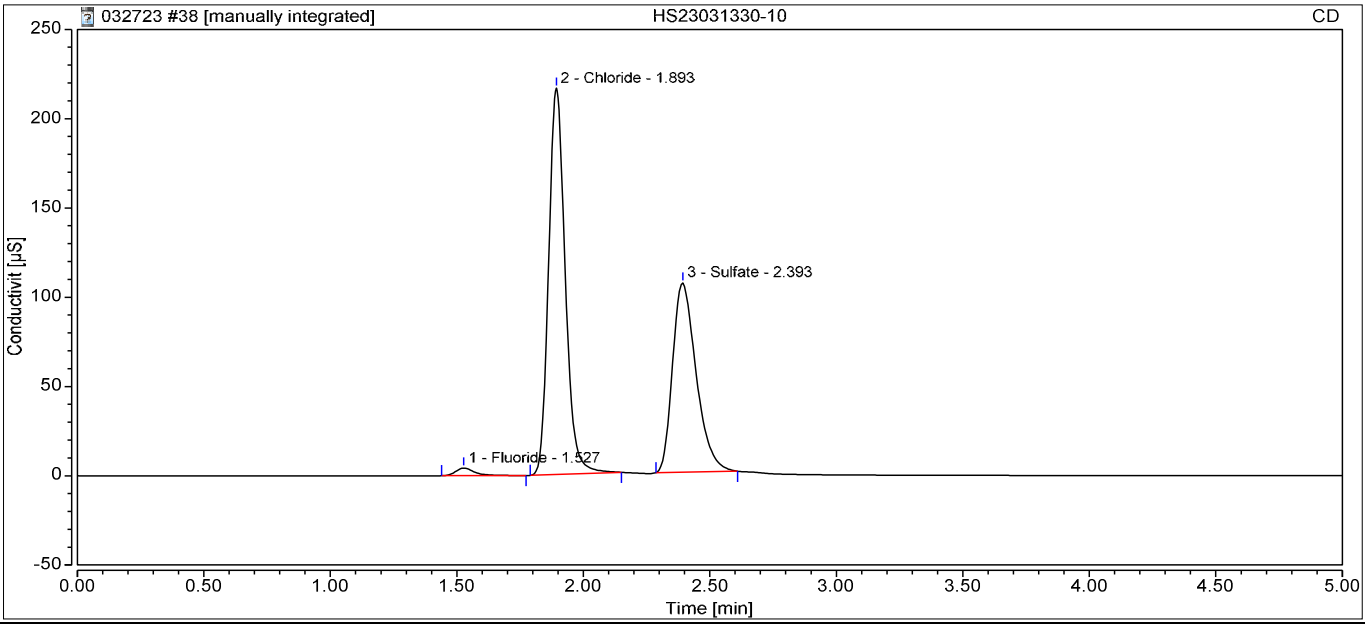
Integration Results

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:



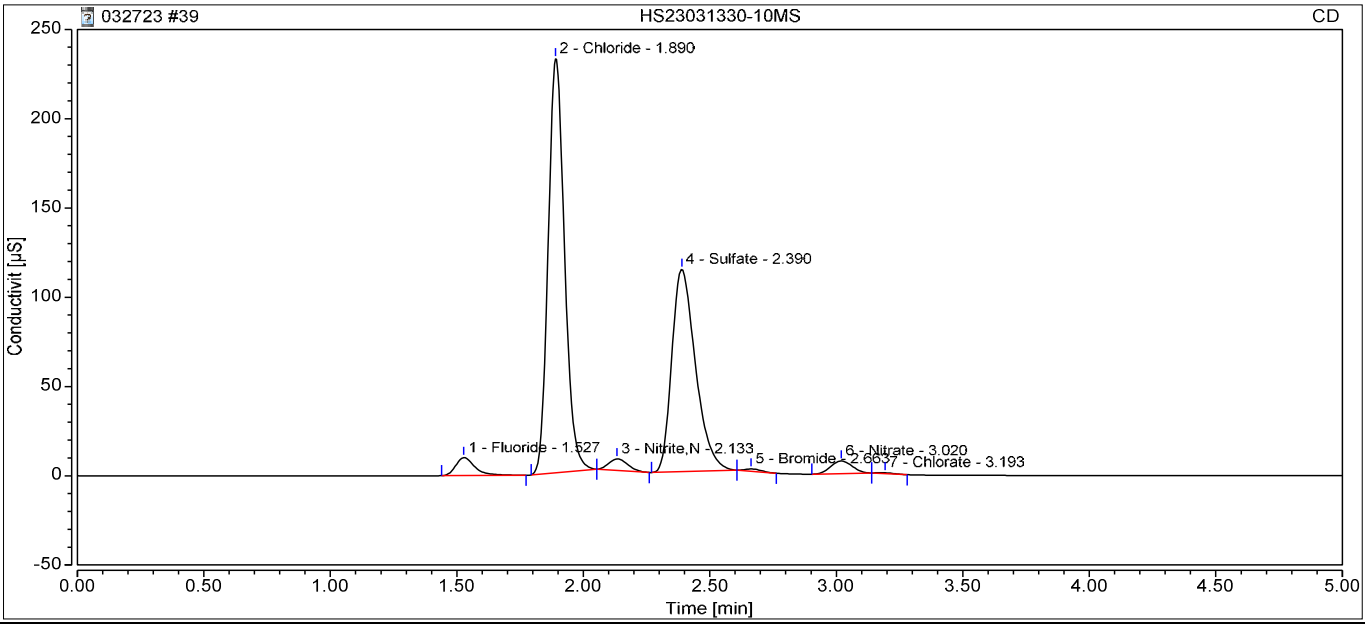
Integration Results

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:



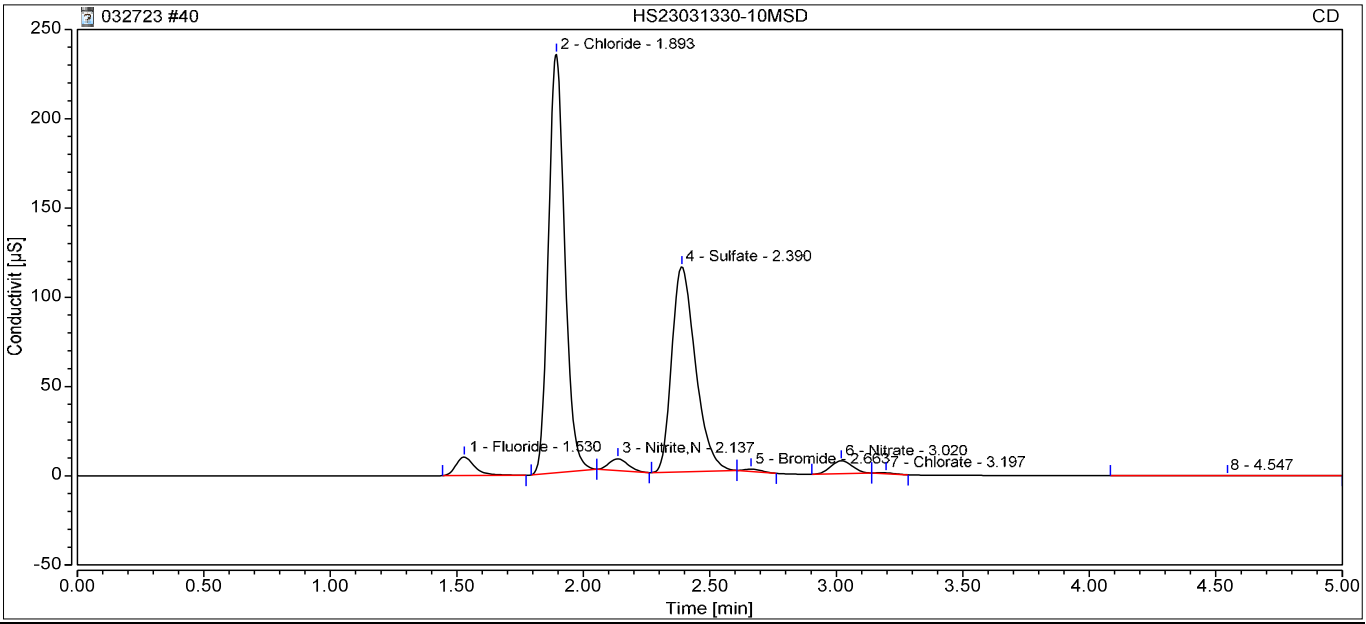
Integration Results

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:



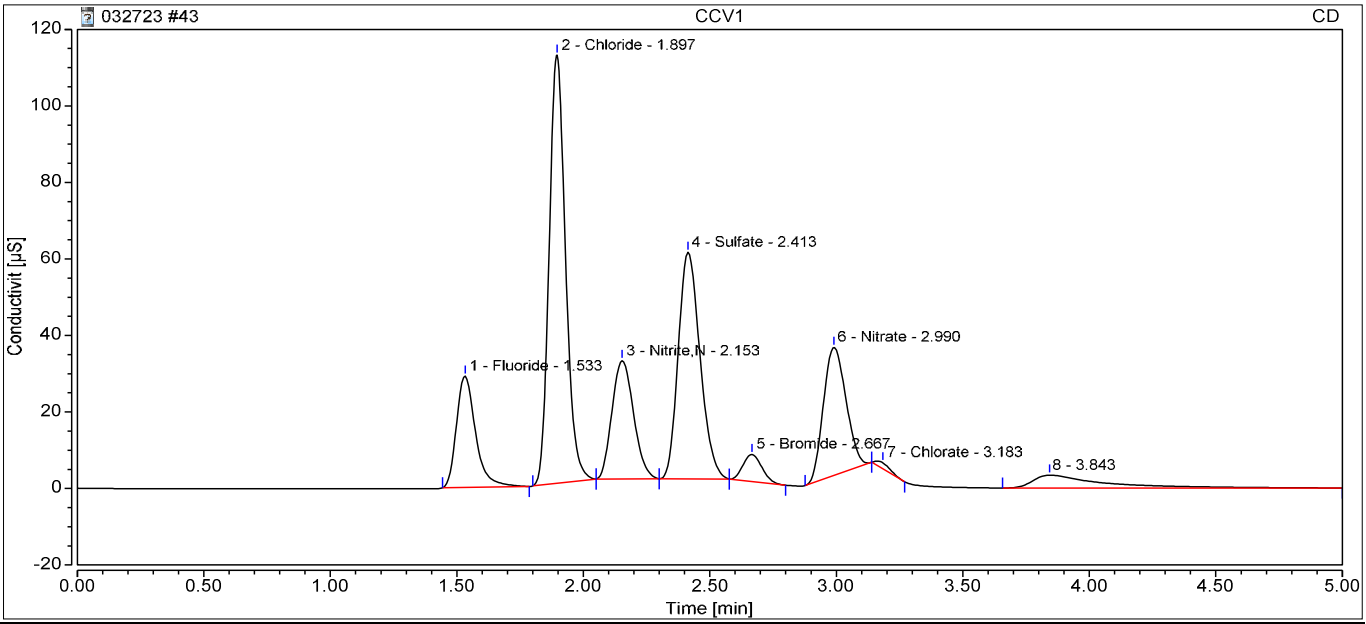
Integration Results

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:



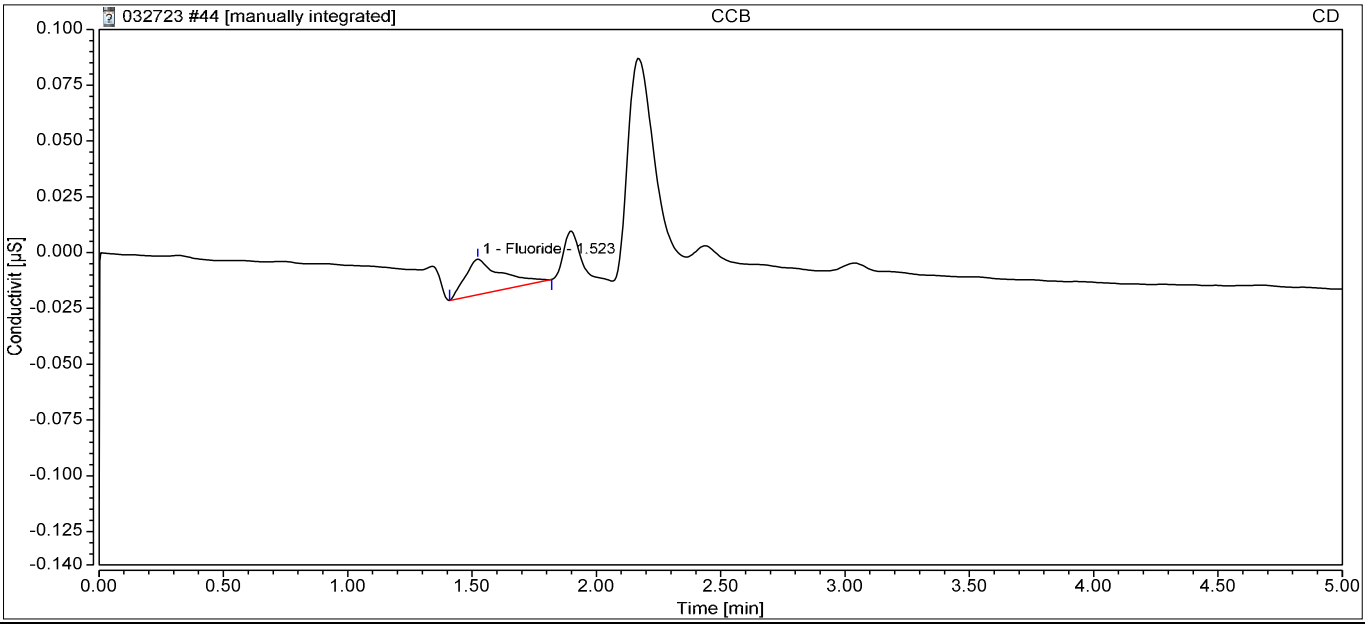
Integration Results

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**	

HS23031294-E2300286 Perchlorate Report
Level IV

ALS WO# HS23031294

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

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dba ALS Environmental

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
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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 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:**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

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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
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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: 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 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 ☑ 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	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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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
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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	

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

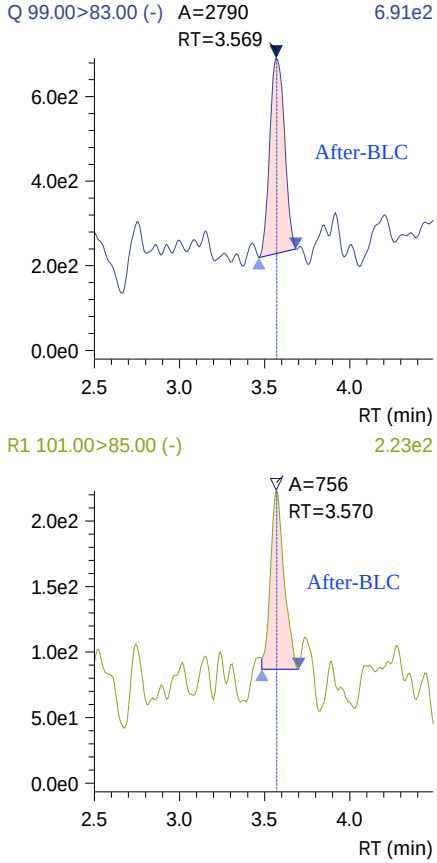
PERCHLORATE1

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	----	----	

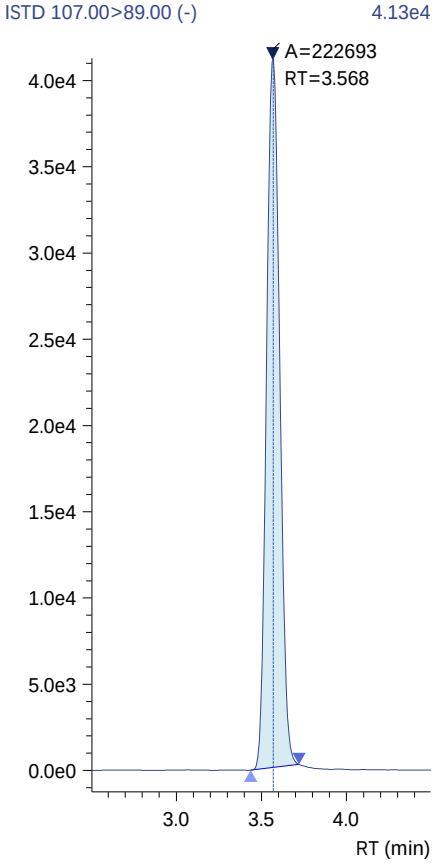
Perchlorate

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

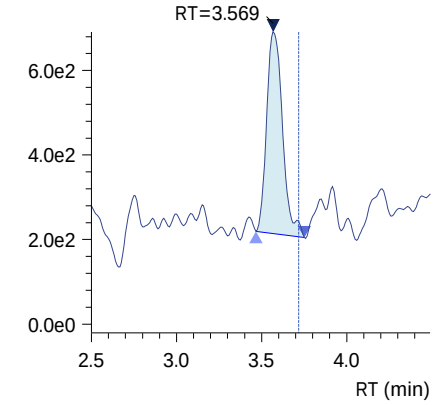
PERCHLORATE1

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

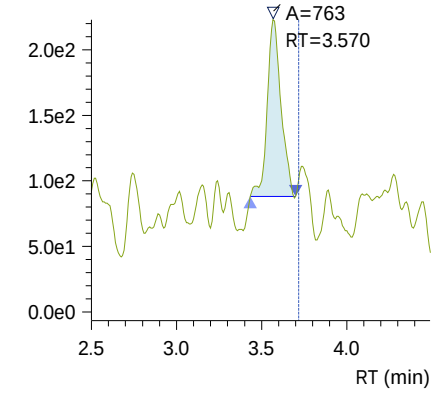
Perchlorate

Conc 0.0996
R#1 24.56 (34.45)

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



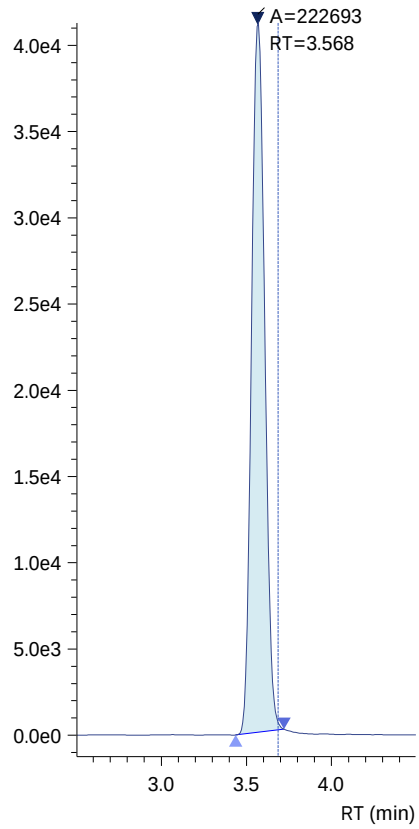
R1 101.00>85.00 (-) 2.23e2



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

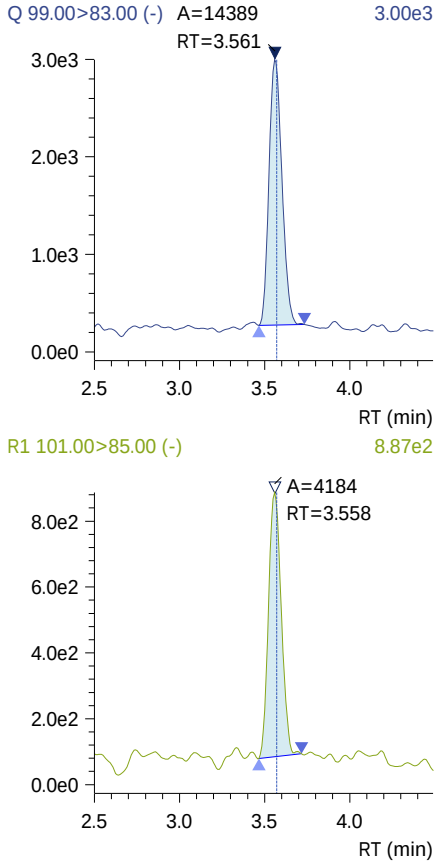
PERCHLORATE2

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	----	----	

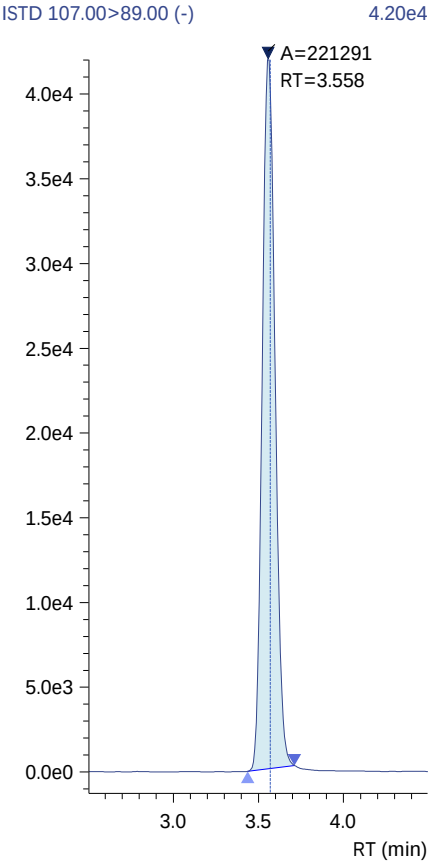
Perchlorate

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

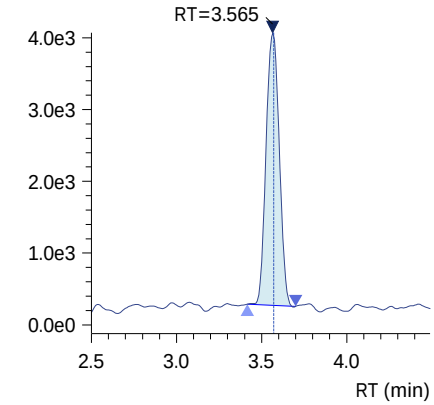
Sample ID: PERCHLORATE3
Date Acquired: 2/1/2023 12:01:49 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-005.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 1

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	2173 25	217325	1.0000	ng/mL	----	----	

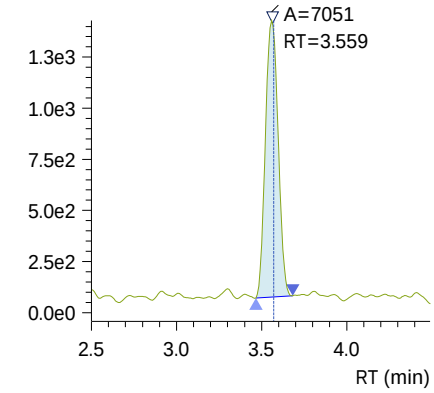
Perchlorate

Conc 0.6801
R#1 34.44 (31.99)

Q 99.00>83.00 (-) A=20476 4.07e3



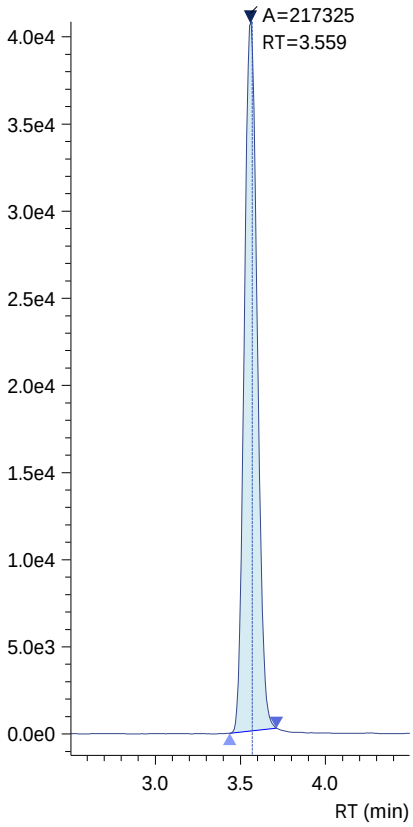
R1 101.00>85.00 (-) 1.43e3



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

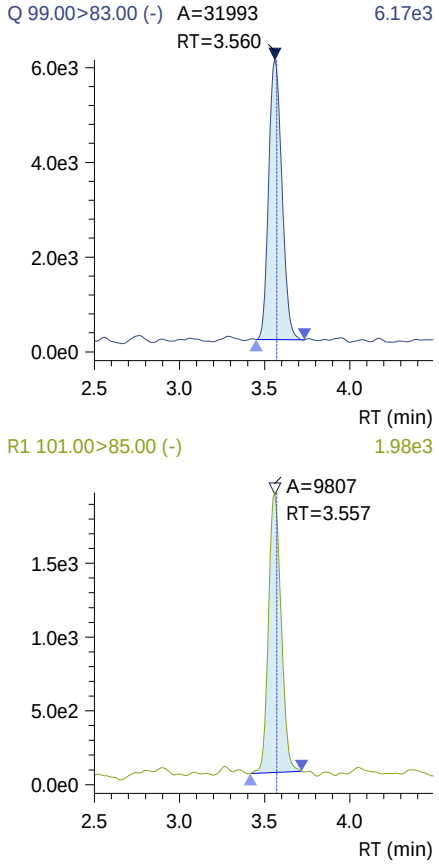
PERCHLORATE4

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	----	----	

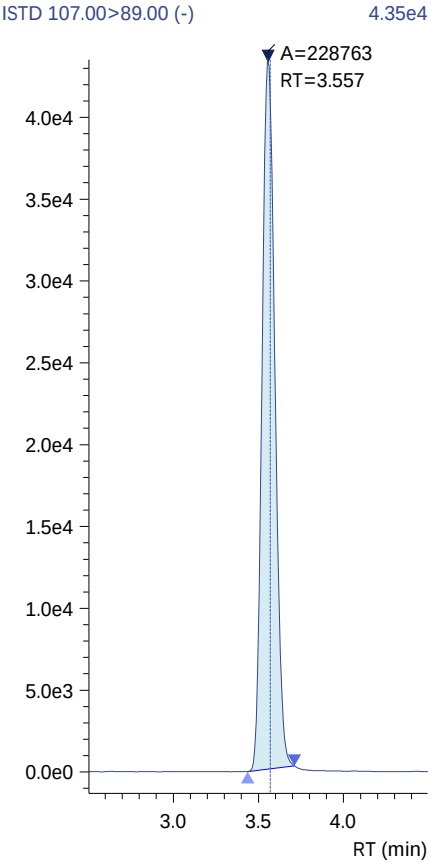
Perchlorate

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

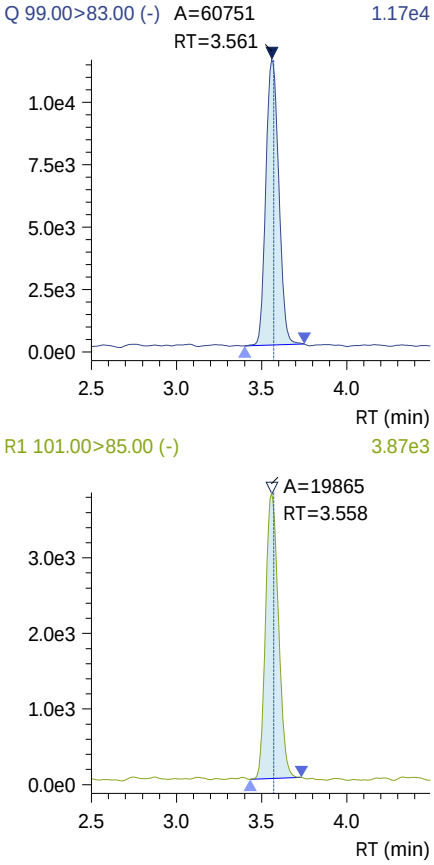
PERCHLORATE5

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	----	----	

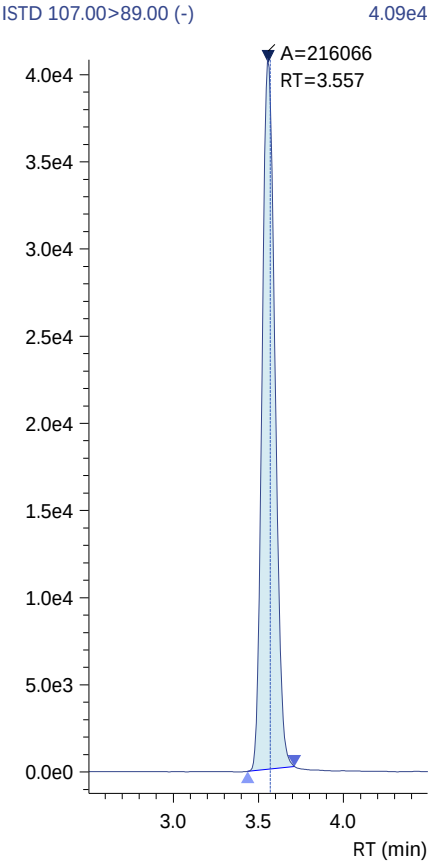
Perchlorate

Conc 2.0296
R#1 32.70 (31.99)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

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

PERCHLORATE6

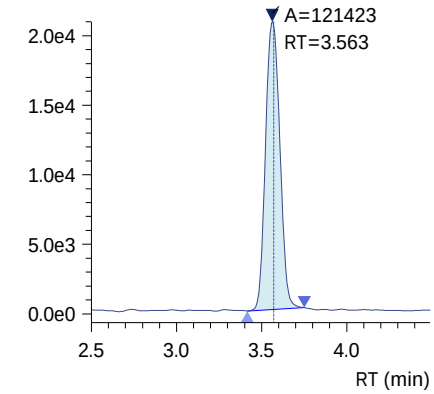
Sample ID: PERCHLORATE6
Date Acquired: 2/1/2023 12:19:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-008.lcd
Vial: 6 | Inj. Volume: 25.0000uL | Tray: 1

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	----	----	

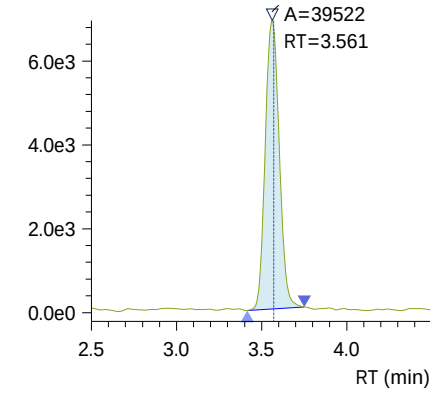
Perchlorate

Conc 5.0667
R#1 32.55 (31.99)

Q 99.00>83.00 (-) 2.10e4



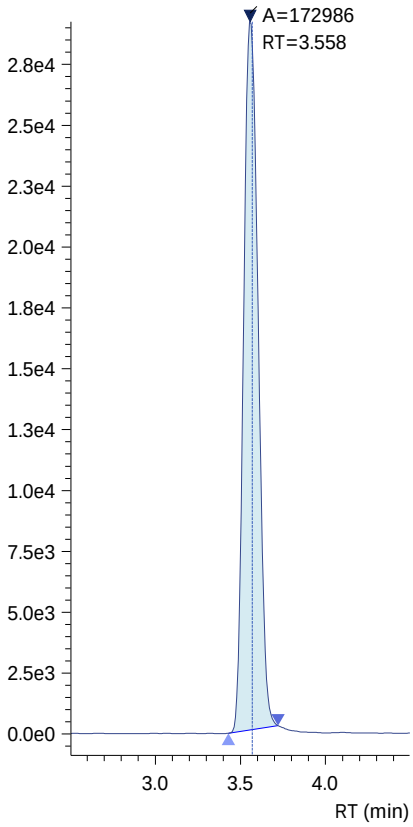
R1 101.00>85.00 (-) 6.97e3



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

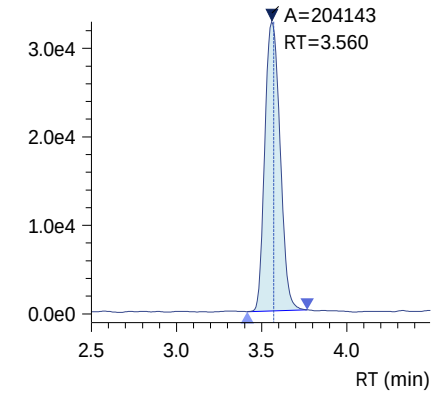
Sample ID: PERCHLORATE7
Date Acquired: 2/1/2023 12:25:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-009.lcd
Vial: 7 | Inj. Volume: 25.0000uL | Tray: 1

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	----	----	

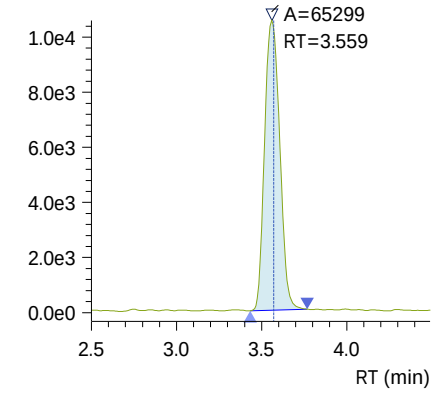
Perchlorate

Conc 10.2192
R#1 31.99 (31.99)

Q 99.00>83.00 (-) 3.30e4



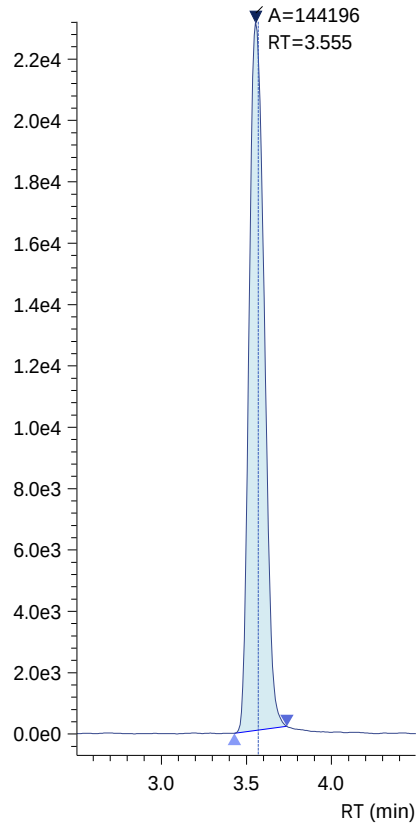
R1 101.00>85.00 (-) 1.06e4



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

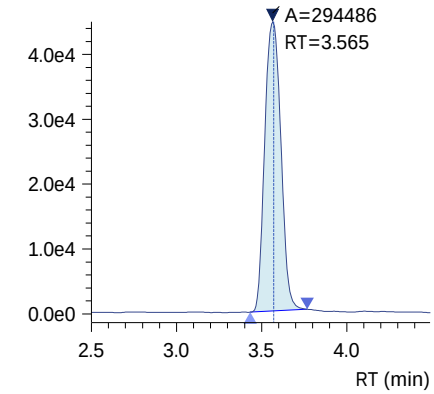
Sample ID: PERCHLORATE8
Date Acquired: 2/1/2023 12:30:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-010.lcd
Vial: 8 | Inj. Volume: 25.0000uL | Tray: 1

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	----	----	

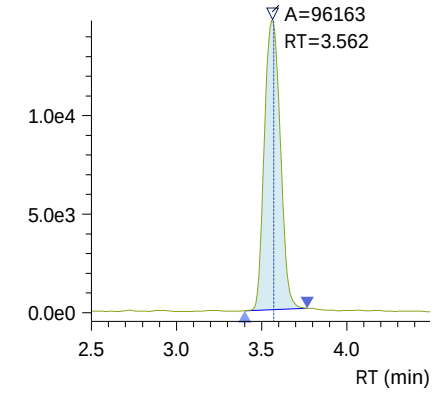
Perchlorate

Conc 20.3065
R#1 32.66 (31.99)

Q 99.00>83.00 (-) 4.50e4



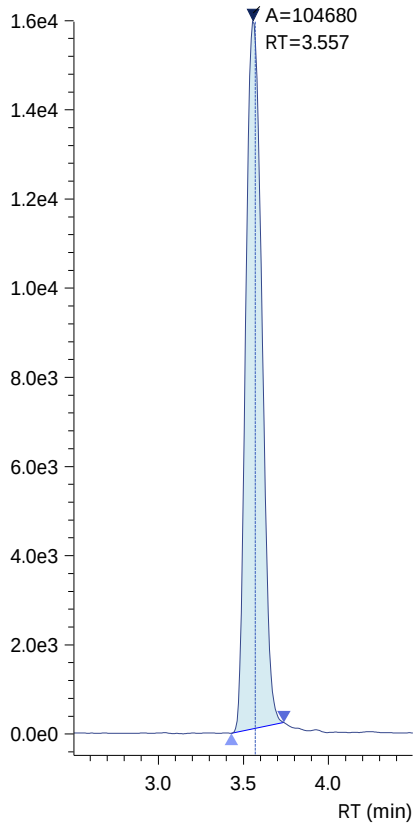
R1 101.00>85.00 (-) 1.48e4



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

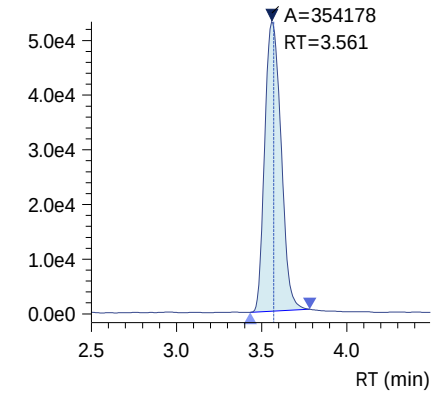
Sample ID: PERCHLORATE9
Date Acquired: 2/1/2023 12:36:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-011.lcd
Vial: 9 | Inj. Volume: 25.0000uL | Tray: 1

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	----	----	

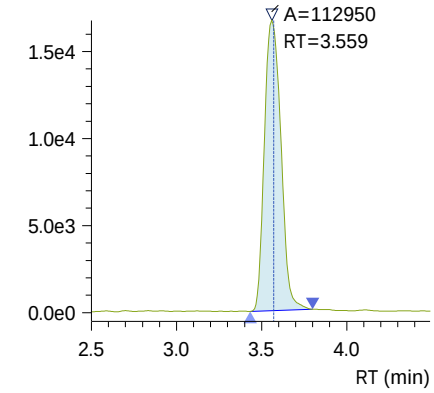
Perchlorate

Conc 31.3395
R#1 31.89 (31.99)

Q 99.00>83.00 (-) 5.34e4



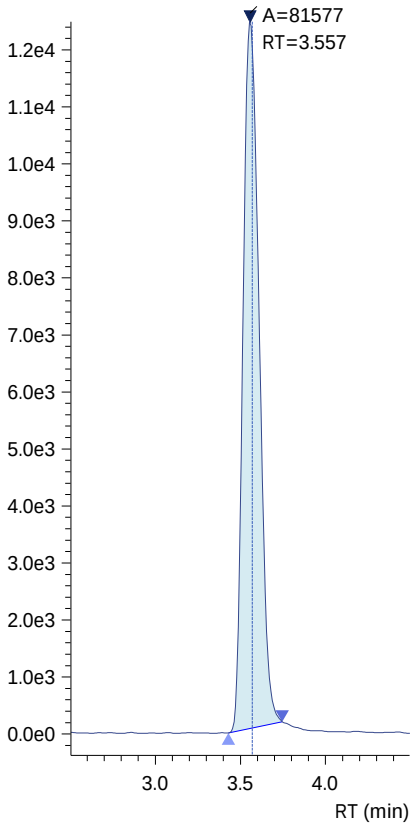
R1 101.00>85.00 (-) 1.68e4



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

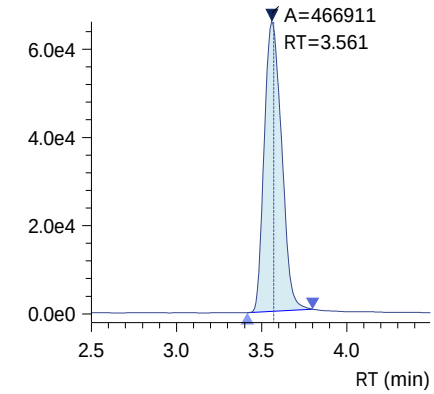
Sample ID: PERCHLORATE10
Date Acquired: 2/1/2023 12:42:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-012.lcd
Vial: 10 | Inj. Volume: 25.0000uL | Tray: 1

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	----	----	

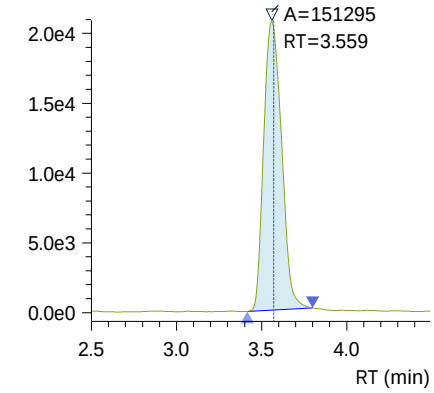
Perchlorate

Conc 53.2964
R#1 32.40 (31.99)

Q 99.00>83.00 (-) 6.62e4



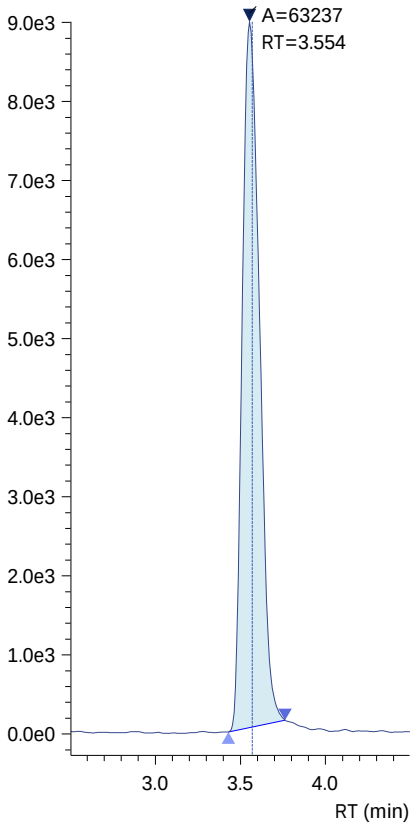
R1 101.00>85.00 (-) 2.09e4



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

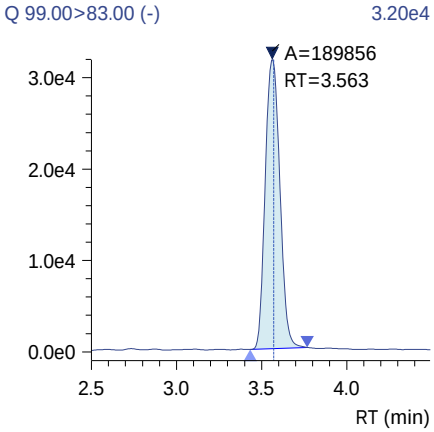
PERCHLORATEICV

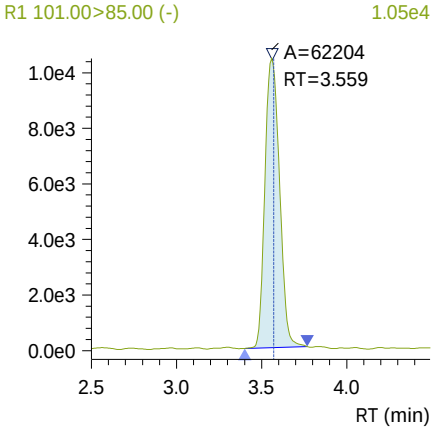
Sample ID: PERCHLORATEICV
Date Acquired: 2/1/2023 12:48:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-013.lcd
Vial: 11 | Inj. Volume: 25.0000uL | Tray: 1

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	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

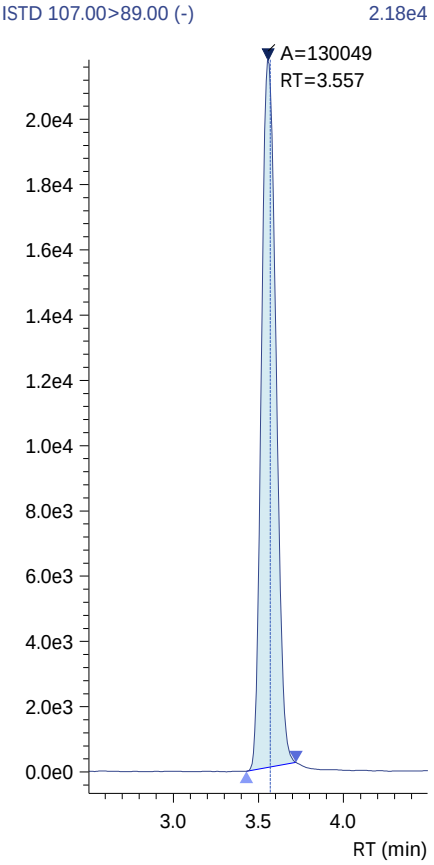
Conc 10.5379
R#1 32.76 (31.99)





Sodium Perchlorate-18O4_IS

Conc 1.0000



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:**	E2300286
Project:	HS23031294	**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:**	E2300286
Project:	HS23031294	**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-SP140_032123	E2300286-001	201,203	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:**	E2300286
Project:	HS23031294	**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:**	E2300286
Project:	HS23031294	**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: HS23031294

Service Request: E2300286
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: HS23031294

Service Request: E2300286
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: HS23031294

Service Request: E2300286
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

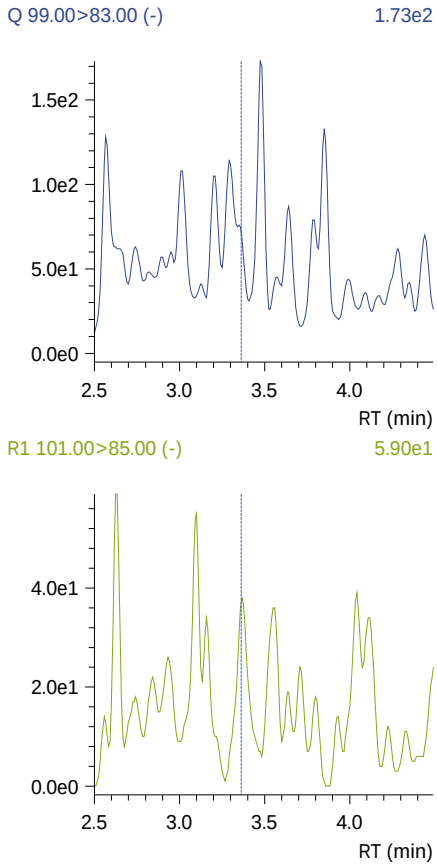
IB

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	----	----	

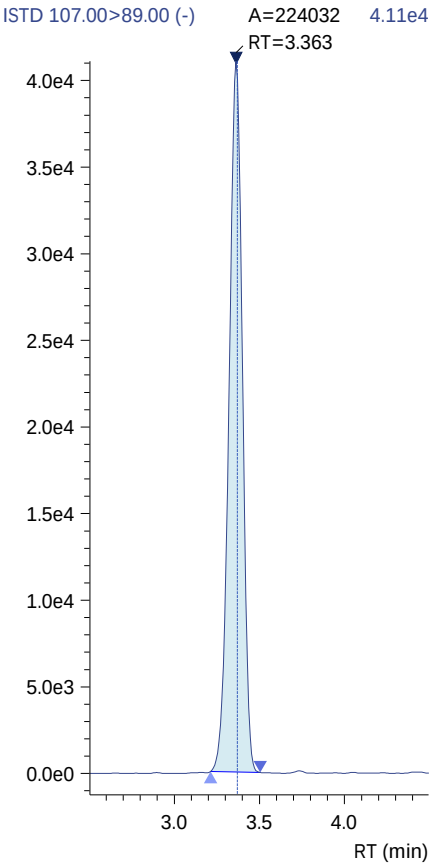
Perchlorate

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

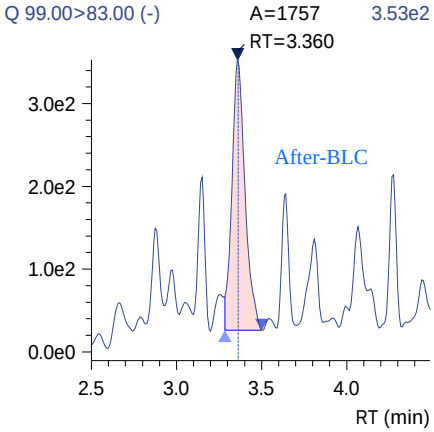
LODV

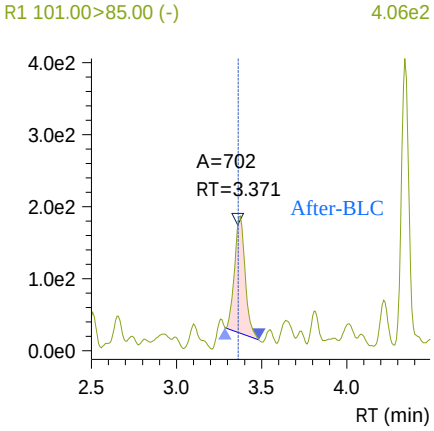
Sample ID: LODV
Date Acquired: 3/28/2023 12:07:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-002.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 0

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

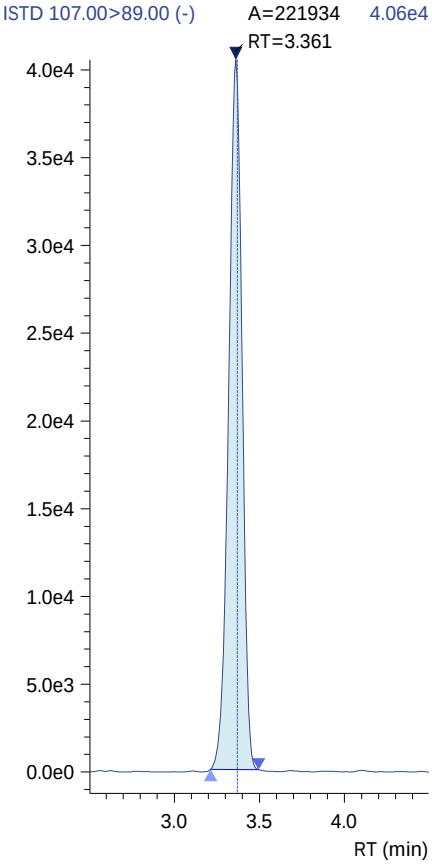
Conc 0.0571
R#1 39.97 (32.23)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:53:30 PM

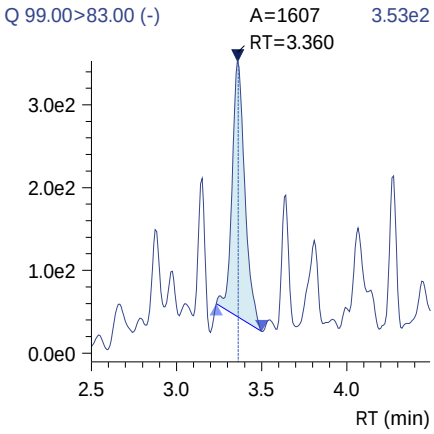
Method File: I:\LCMS01\DATA\20230328\20230328.lcm
Project File: I:\LCMS01\DATA\20230328\20230328.damlp

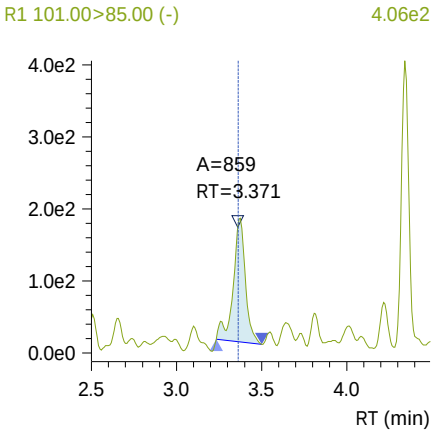
LODV

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

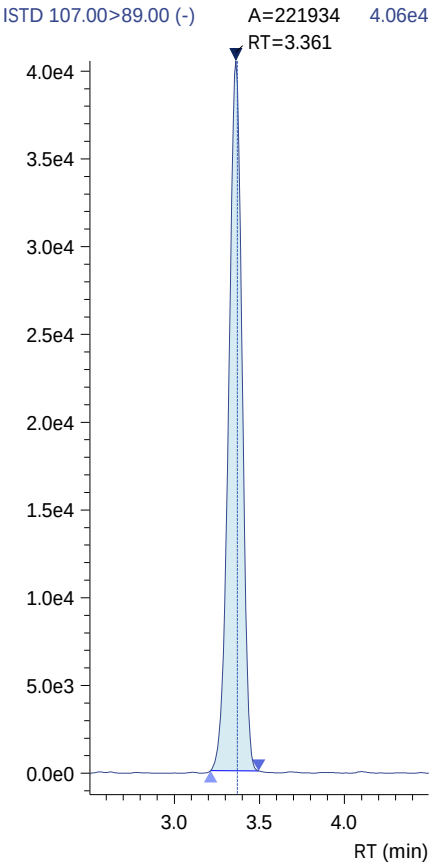
Conc 0.0523
R#1 53.44 (32.23)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:45:09 PM

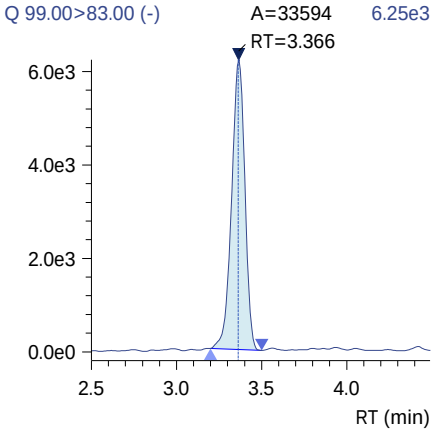
ICS

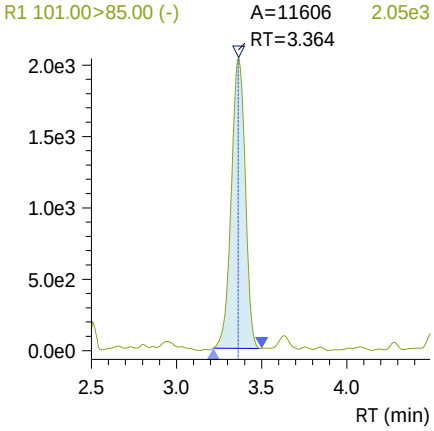
Sample ID: ICS
Date Acquired: 3/28/2023 12:19:09 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-003.lcd
Vial: 2 | Inj. Volume: 25.0000uL | Tray: 0

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

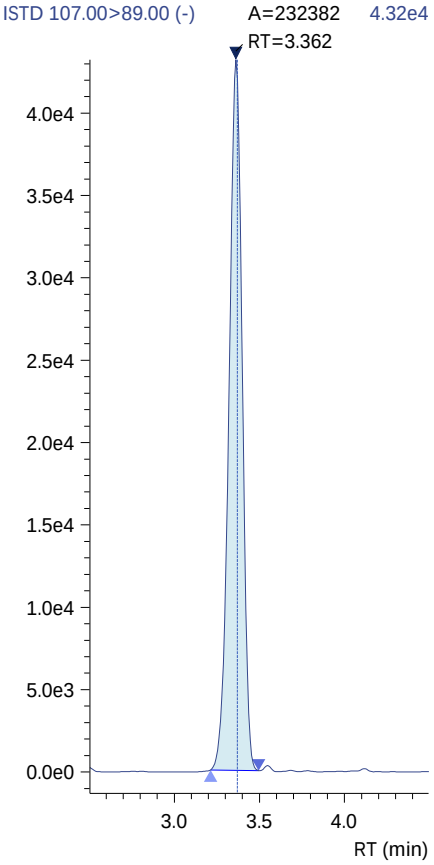
Conc 1.0435
R#1 34.55 (32.23)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:45:09 PM

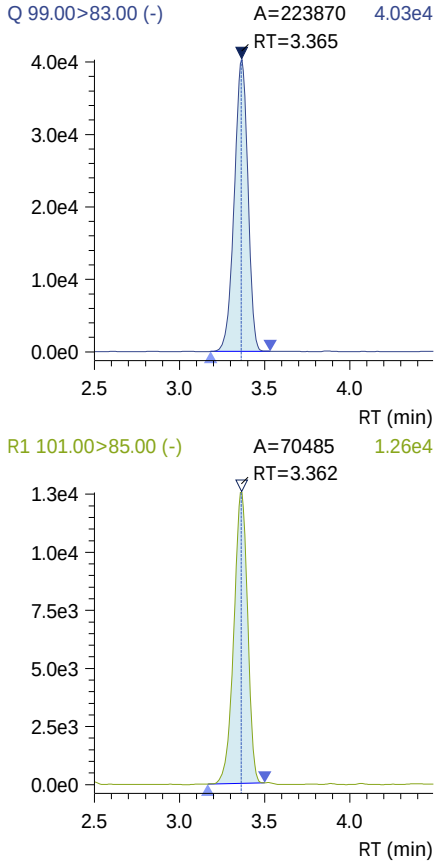
PERCHLORATE7

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	----	----	

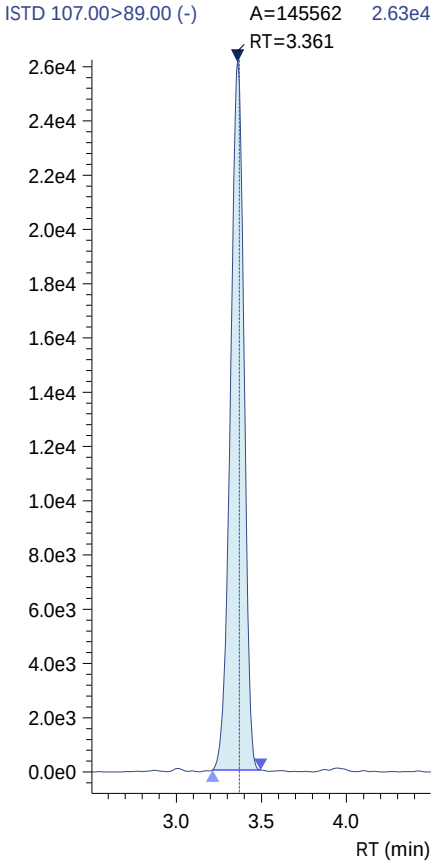
Perchlorate

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

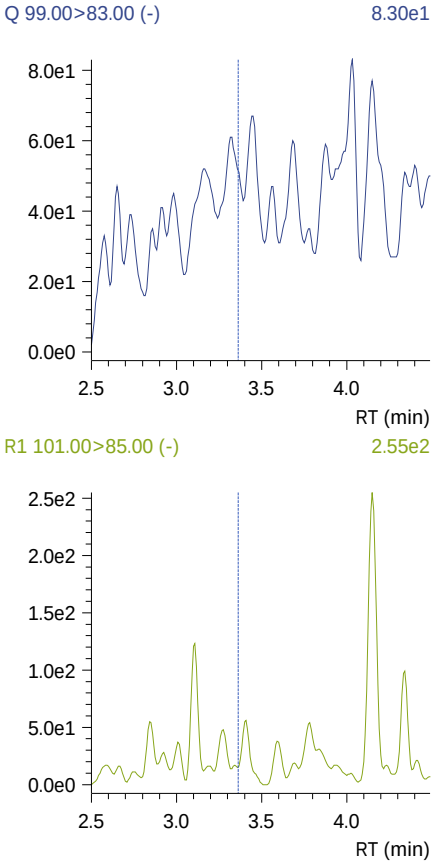
EQ2300157-01

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	----	----	

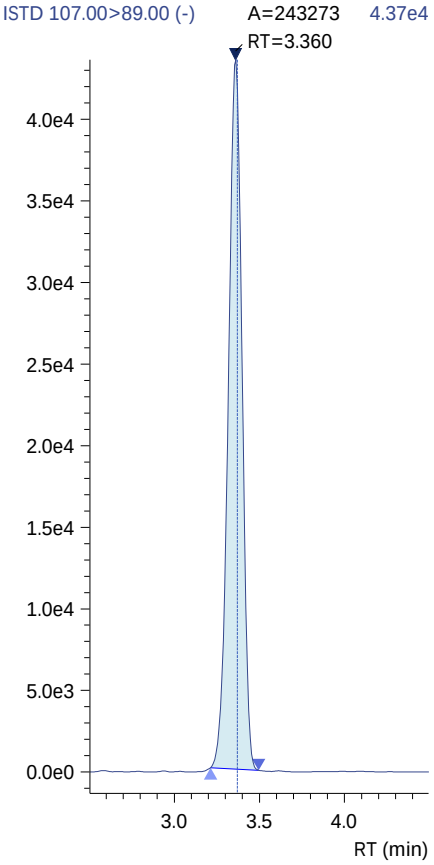
Perchlorate

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

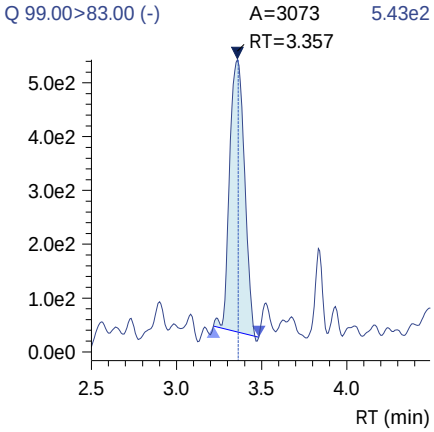
EQ2300157-02

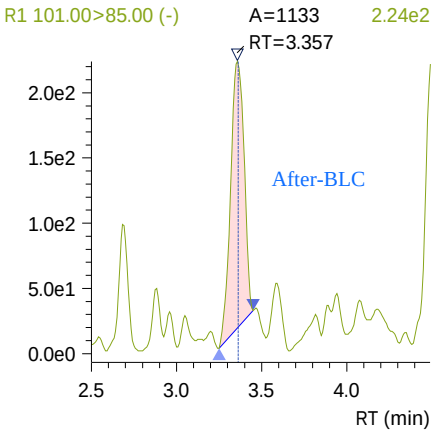
Sample ID: EQ2300157-02
Date Acquired: 3/28/2023 12:36:15 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-006.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 3

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

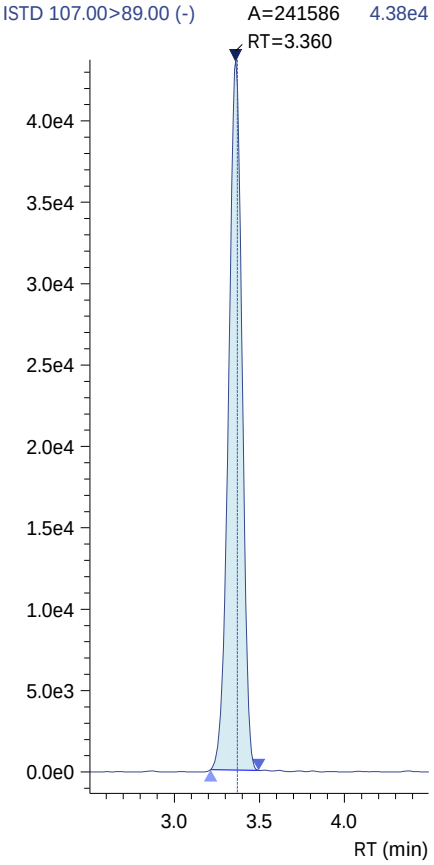
Conc 0.0918
R#1 36.88 (32.23)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

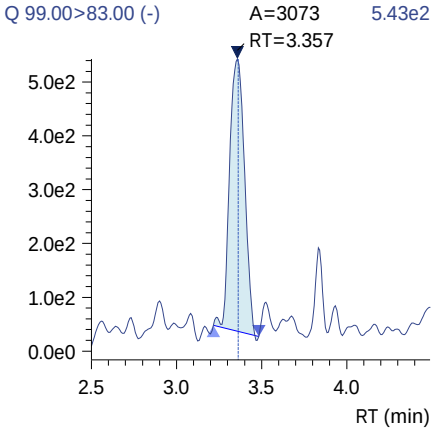
Method File: I:\LCMS01\DATA\20230328\20230328.lcm
Project File: I:\LCMS01\DATA\20230328\20230328.damlp

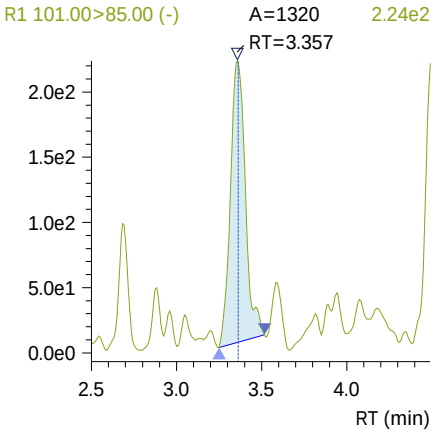
EQ2300157-02

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

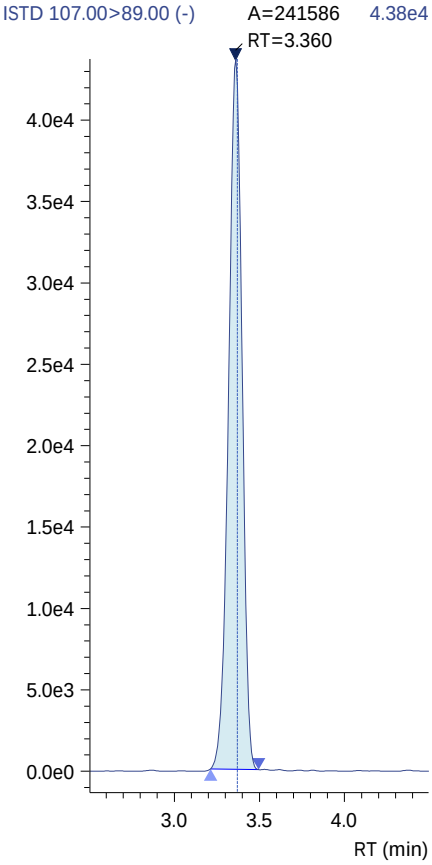
Conc 0.0909
R#1 42.95 (32.23)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:45:09 PM

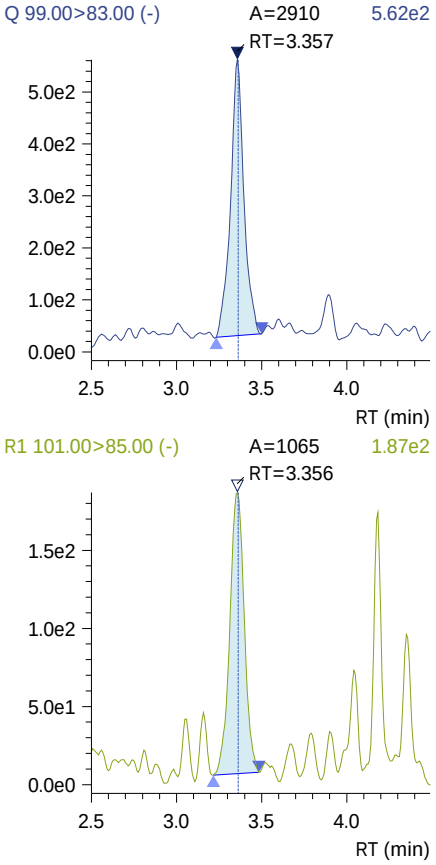
EQ2300157-03

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	----	----	

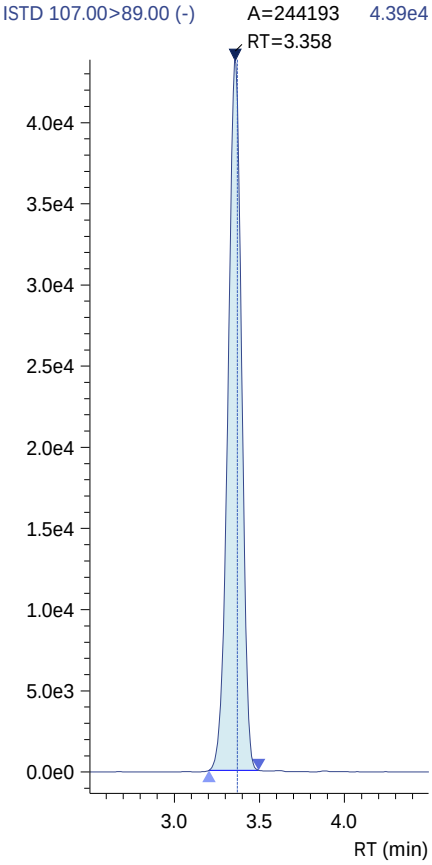
Perchlorate

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

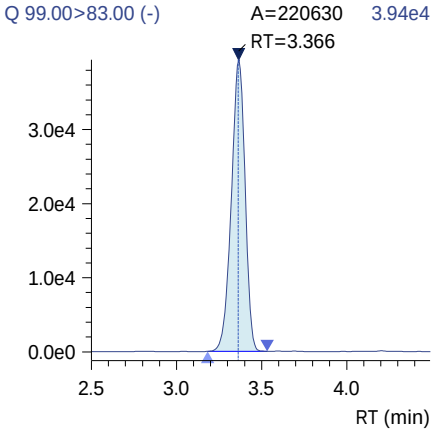
PERCHLORATE7

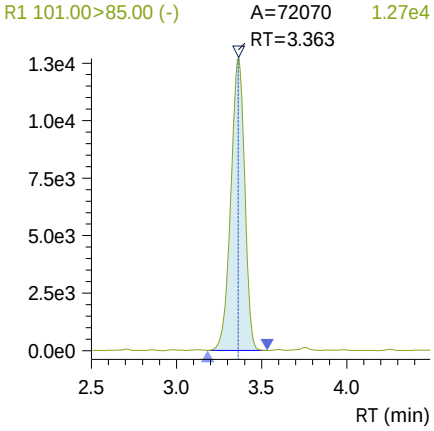
Sample ID: PERCHLORATE7
Date Acquired: 3/28/2023 1:23:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-014.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

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

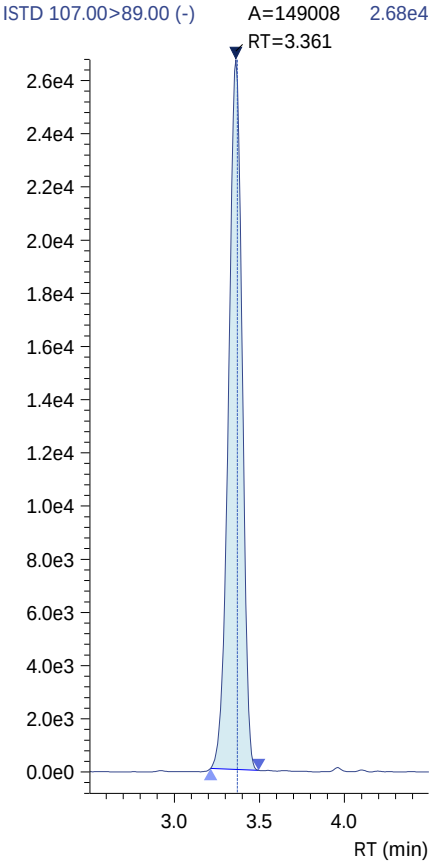
Conc 10.6878
R#1 32.67 (32.23)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:45:09 PM

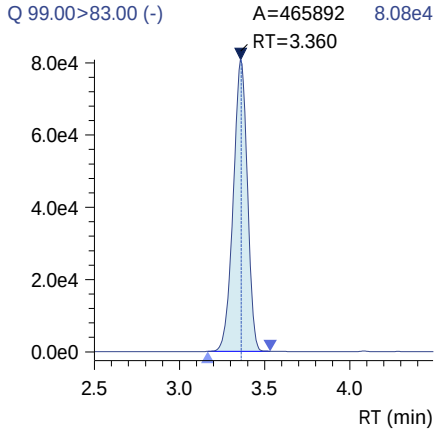
E2300286-001x1000

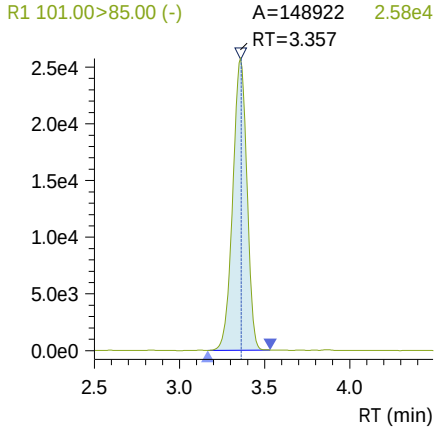
Sample ID: E2300286-001
Date Acquired: 3/28/2023 2:04:41 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-020.lcd
Vial: 37 | Inj. Volume: 25.0000uL | Tray: 3

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.360	465892 8.08e4	201203	16.7 143	ng/mL	101.00 >85.00	31.97	22.56 -41.90
Sodium Perchlorate-18O4_IS	Auto	3.355	201203	201203	1.0000	ng/mL	----	----	

Perchlorate

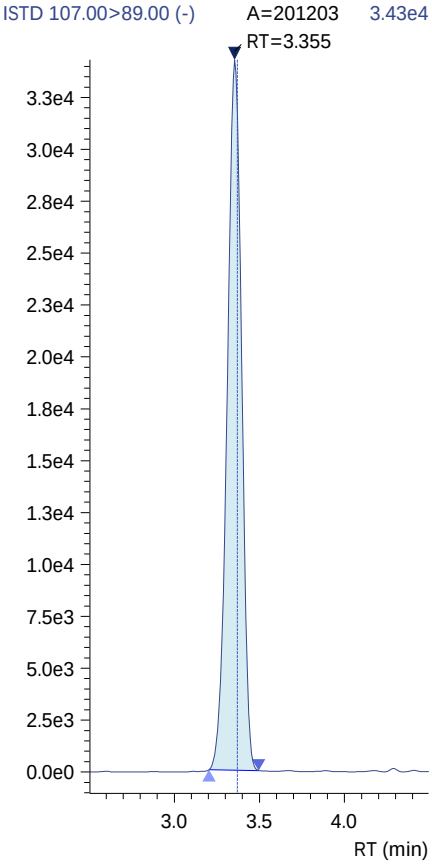
Conc 16.7143
R#1 31.97 (32.23)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/28/2023 3:45:09 PM

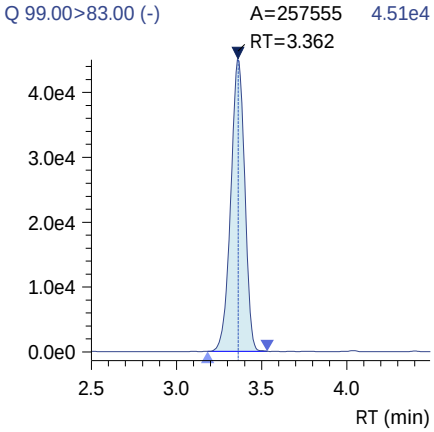
PERCHLORATE7

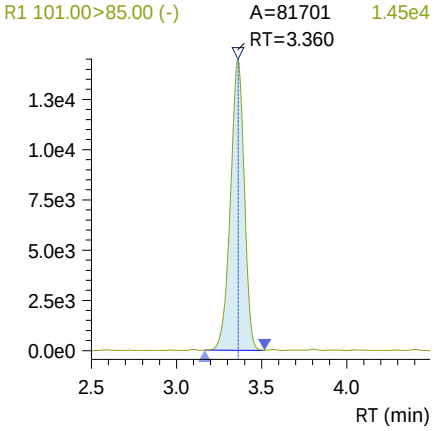
Sample ID: PERCHLORATE7
Date Acquired: 3/28/2023 2:39:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230328\20230328-025.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

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

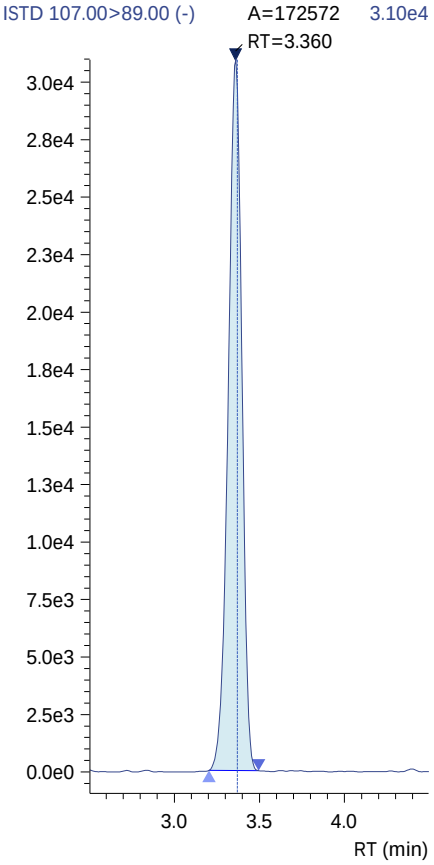
Conc 10.7730
R#1 31.72 (32.23)





Sodium Perchlorate-18O4_IS

Conc 1.0000



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WorkOrder: HS23031702

Longhorn GW Treatment Plant Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

10-Apr-2023

ALS Environmental
ALS Group USA, Corp
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  - LH18/24-SP650_032823_AIX
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Initial Calibration
Chromatograms and Selected Ion Monitoring

HS23031702 Longhorn GW Treatment Plant Weekly Samples Final

ALS WO# HS23031702

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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April 05, 2023

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

Work Order: **HS23031702**

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

Dear Marcia Olive,

ALS Environmental received 3 sample(s) on Mar 29, 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: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS23031702

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23031702-01	LH18/24-SP650_032823	Water		28-Mar-2023 13:00	29-Mar-2023 10:00	☐
HS23031702-02	LH18/24-SP650_032823_AIX	Water		28-Mar-2023 13:00	29-Mar-2023 10:00	☐
HS23031702-03	LH18/24-SP650_032823_BIX	Water		28-Mar-2023 13:00	29-Mar-2023 10:00	☐

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS23031702

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: R431825

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

WetChemistry by Method E415.1

Batch ID: R431525

Sample ID: LH18/24-SP650_032823 (HS23031702-01MS)

- 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 E365.3

Batch ID: R431383

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

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Sample ID: LH18/24-SP650_032823
Collection Date: 28-Mar-2023 13:00

ANALYTICAL REPORT
WorkOrder:HS23031702
Lab ID:HS23031702-01
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)	**1.2**	a	**0.10**	**0.10**	**0.20**	**mg/L**	1	05-Apr-2023 15:03
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**						Analyst: MZD
Phosphorus, Total Orthophosphate (As P)	**3.88**	a	**0.100**	**0.125**	**0.250**	**mg/L**	10	30-Mar-2023 11:55
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**7.23**	a	**0.500**	**1.00**	**1.00**	**mg/L**	1	31-Mar-2023 11:58

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

ALS Houston, US

Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.

ANALYTICAL REPORT

Project: Longhorn GW Treatment Plant Weekly Samples

WorkOrder:HS23031702

Sample ID: LH18/24-SP650_032823_AIX

Lab ID:HS23031702-02

Collection Date: 28-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	31-Mar-2023 08:58

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

ALS Houston, US

Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.

ANALYTICAL REPORT

Project: Longhorn GW Treatment Plant Weekly Samples

WorkOrder:HS23031702

Sample ID: LH18/24-SP650_032823_BIX

Lab ID:HS23031702-03

Collection Date: 28-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	31-Mar-2023 08:58

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

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23031702

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R431383 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS23031702-01	LH18/24-SP650_032823	28 Mar 2023 13:00			30 Mar 2023 11:55	10
Batch ID: R431441 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS23031702-02	LH18/24-SP650_032823_AIX	28 Mar 2023 13:00			31 Mar 2023 08:58	1
HS23031702-03	LH18/24-SP650_032823_BIX	28 Mar 2023 13:00			31 Mar 2023 08:58	1
Batch ID: R431525 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Water	
HS23031702-01	LH18/24-SP650_032823	28 Mar 2023 13:00			31 Mar 2023 11:58	1
Batch ID: R431825 (0)	**Test Name :** AMMONIA AS N BY E350.3(ISE)				**Matrix:** Water	
HS23031702-01	LH18/24-SP650_032823	28 Mar 2023 13:00			05 Apr 2023 15:03	1

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23031702

QC BATCH REPORT

Batch ID: R431383 (0) **Instrument:** UV-2450 **Method:** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978

MBLK Sample ID: **MBLK-R431383** Units: **mg/L** Analysis Date: **30-Mar-2023 11:55**
Client ID: Run ID: **UV-2450_431383** SeqNo: **7205230** 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-R431383** Units: **mg/L** Analysis Date: **30-Mar-2023 11:55**
Client ID: Run ID: **UV-2450_431383** SeqNo: **7205229** 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)	0.243	0.0250	0.25	0	97.2	85 - 115				

MS Sample ID: **HS23031702-01MS** Units: **mg/L** Analysis Date: **30-Mar-2023 11:55**
Client ID: **LH18/24-SP650_032823** Run ID: **UV-2450_431383** SeqNo: **7205232** 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)	6.03	0.250	2.5	3.88	86.0	80 - 120				

MSD Sample ID: **HS23031702-01MSD** Units: **mg/L** Analysis Date: **30-Mar-2023 11:55**
Client ID: **LH18/24-SP650_032823** Run ID: **UV-2450_431383** SeqNo: **7205231** 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)	6.04	0.250	2.5	3.88	86.4	80 - 120	6.03	0.166	20	

The following samples were analyzed in this batch: HS23031702-01

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23031702

QC BATCH REPORT

Batch ID: R431525 (0) **Instrument: TOC_04** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-03312023** Units: **mg/L** Analysis Date: **31-Mar-2023 11:18**
Client ID: Run ID: **TOC_04_431525** SeqNo: **7208259** 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-03312023** Units: **mg/L** Analysis Date: **31-Mar-2023 11:32**
Client ID: Run ID: **TOC_04_431525** SeqNo: **7208260** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.69	1.00	10	0	107	85 - 115				

LCSD Sample ID: **LCSD-03312023** Units: **mg/L** Analysis Date: **31-Mar-2023 11:45**
Client ID: Run ID: **TOC_04_431525** SeqNo: **7208261** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.7	1.00	10	0	107	85 - 115	10.69	0.0935	20	

MS Sample ID: **HS23031702-01MS** Units: **mg/L** Analysis Date: **31-Mar-2023 12:11**
Client ID: **LH18/24-SP650_032823** Run ID: **TOC_04_431525** SeqNo: **7208263** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	19.97	1.00	10	7.233	127	80 - 120				S

The following samples were analyzed in this batch: HS23031702-01

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS23031702

QC BATCH REPORT

Batch ID: R431825 (0) **Instrument: WetChem_HS** **Method: AMMONIA AS N BY E350.3(ISE)**

MBLK Sample ID: **MBLK-R431825** Units: **mg/L** Analysis Date: **05-Apr-2023 15:03**
Client ID: Run ID: **WetChem_HS_431825** SeqNo: **7216476** 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-R431825** Units: **mg/L** Analysis Date: **05-Apr-2023 15:03**
Client ID: Run ID: **WetChem_HS_431825** SeqNo: **7216475** 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)	9.057	0.20	10	0	90.6	80 - 120				

MS Sample ID: **HS23031879-01MS** Units: **mg/L** Analysis Date: **05-Apr-2023 15:03**
Client ID: Run ID: **WetChem_HS_431825** SeqNo: **7216947** 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)	11.95	0.20	10	1.635	103	80 - 120				

MSD Sample ID: **HS23031879-01MSD** Units: **mg/L** Analysis Date: **05-Apr-2023 15:03**
Client ID: Run ID: **WetChem_HS_431825** SeqNo: **7216946** 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)	12.5	0.20	10	1.635	109	80 - 120	11.95	4.52	20	

The following samples were analyzed in this batch: HS23031702-01

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: **HS23031702**

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: 05-Apr-23

Sample Receipt Checklist

Work Order ID: HS23031702 **Date/Time Received:** 29-Mar-2023 10:00

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

Completed By: /S/ Corey Grandits (eSignature) 29-Mar-2023 13:27 (Date/Time) **Reviewed by:** (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):	49146	
Date/Time sample(s) sent to storage:	3/29/23	

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 (281) 530-5656 ATTN: Dane Wacasey

HS23031702

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_032823	Water	03/28/23 / 13:00		3	X	X			H2SO4	
LH18/24-SP650_032823	Water	03/28/23 / 13:00		1			X		NONE	
LH18/24–SP650_032823_AIX	Water	03/28/23 / 13:00		1				X	NONE	
LH18/24-SP650_032823_BIX	Water	03/28/23 / 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	03/28/23	13:30		3-29-23	1000						

For Lab Use Only

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

Remarks: 49146 10231 2.9

(Word) S:\M-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

49146

CUSTODY SEAL

Date: 3/29/23 Time: 1330
Name: Scott Beesinger
Company: Bhate

Seal Broken By:
Date: 03/29/23

49146 MAR 29 2023

49146

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINGER
APTIM ENVIRONMENTAL & INFRASTRUCTURE
1203-B EAST GRAND AVE
PMB 202
MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 02DEC22
ACTWGT: 1.00 LB MAN
CAD: 022124/CAFE3616
DIMS: 19x16x13 IN

TO **SHIPPING DEPT**
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: LHAAP 12-B0 39532-DW

RMA:

FedEx Express

FedEx 5789 2001 7507

PRIORITY OVERNIGHT SAT

AB SGRA

77099
TX-US
IAH

March 31, 2023 Service Request No:E2300305

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

Laboratory Results for: HS23031702

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory March 29, 2023
For your reference, these analyses have been assigned our service request number **E2300305.**

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.:**	E2300305
Project:	HS23031702	**Date Received:**	03/29/23
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

Two samples were received for analysis at ALS Environmental in Houston on 03/29/23.

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:

EQ2300162: 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:**E2300305
Project: HS23031702

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300305-001	LH18/24-SP650_032823_AIX	3/28/2023	1300
E2300305-002	LH18/24-SP650_032823_BIX	3/28/2023	1300

Service Request Summary

Folder #: **E2300305**
Client Name: ALS Environmental - US
Project Name: HS23031702
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: 03/29/23
Internal Due Date: 3/30/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23031702
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	HOUSTON ClO4 DOD/6850
E2300305-001	LH18/24-SP650_032823_AIX	Water	03/28/23 1300	**IV**
E2300305-002	LH18/24-SP650_032823_BIX	Water	03/28/23 1300	**IV**

Service Request Summary

Folder #: **E2300305**
Client Name: ALS Environmental - US
Project Name: HS23031702
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: 03/29/23
Internal Due Date: 3/30/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23031702
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
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
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 Specialties Laboratory
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www.alsglobal.com

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Houston, TX 77099
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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **21268**

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:	HS23031702
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23031702-02**	**LH18/24-SP650_032823_AIX**	**Water**	**28 Mar 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			30 Mar 2023
2.	**HS23031702-03**	**LH18/24-SP650_032823_BIX**	**Water**	**28 Mar 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			30 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: 3-29-23 1330

Received By: _____ Date/Time: _____

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

Cooler Receipt Form

Project Chemist JG

Client/Project ALS

Thermometer ID IR31

Date/Time Received: 3/29/23 1330 Initials: JG

Date/Time Logged in: 3/29/23 1343 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?
		3/29/23	1330	JG		☐
						☐
						☐
						☐

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: +1 281 530 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#: 417371 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 3/29/23 10:26

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300302-001	K200-RS1583-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2300302-002	K99-RS698-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
3	E2300302-003	K99-RS609-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
4	E2300302-004	K99-RS-696-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
5	E2300302-005	K99-RS697-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
6	E2300302-006	K200-RS1586-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
7	E2300302-007	K99-RS612-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
8	E2300302-008	K99-RS701-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
9	E2300305-001	LH18/24-SP650_032823_AIX	.01	6850/ClO4 DOD			Water	10mL	
10	E2300305-002	LH18/24-SP650_032823_BIX	.01	6850/ClO4 DOD			Water	10mL	
11	EQ2300162-01	MB		6850/ClO4 DOD			Liquid	10mL	
12	EQ2300162-02	LCS		6850/ClO4 DOD			Liquid	10mL	
13	EQ2300162-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
14	K2302952-001	LGAC-INF-031323	.01	6850/ClO4			Water	10mL	
15	K2303524-001	RB20230322161400	.01	6850/ClO4			Water	10mL	
16	R2302424-003	2303201037A 700-J-200	.01	6850/ClO4			Water	10mL	
17	R2302424-004	2303201315X 700-H-670	.01	6850/ClO4			Water	10mL	
18	R2302424-007	2303211005C 700-D-786	.01	6850/ClO4			Water	10mL	
19	R2302424-008	2303211012X 700-H-535	.01	6850/ClO4			Water	10mL	
20	R2302424-011	2303211017A 700-A-253	.01	6850/ClO4			Water	10mL	
21	R2302424-014	2303211506A BLM-5-527	.01	6850/ClO4			Water	10mL	
22	R2302424-018	2303220857X 700-H-350	.01	6850/ClO4			Water	10mL	

Spiking Solutions

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

EQ2300162-01	1.00µL	EQ2300162-02	1.00µL	EQ2300162-02	1.00µL	EQ2300162-03	1.00µL	EQ2300162-03	1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 227244 Logbook Ref: Perchlorate Internal Standard Expires On: 07/31/2023

E2300302-001	100.00µL	E2300302-002	100.00µL	E2300302-003	100.00µL	E2300302-004	100.00µL	E2300302-005	100.00µL	E2300302-006	100.00µL
E2300302-007	100.00µL	E2300302-008	100.00µL	E2300305-001	100.00µL	E2300305-002	100.00µL	EQ2300162-01	100.00µL	EQ2300162-01	100.00µL
EQ2300162-02	100.00µL	EQ2300162-02	100.00µL	EQ2300162-03	100.00µL	EQ2300162-03	100.00µL	K2302952-001	100.00µL	K2303524-001	100.00µL
R2302424-003	100.00µL	R2302424-004	100.00µL	R2302424-007	100.00µL	R2302424-008	100.00µL	R2302424-011	100.00µL	R2302424-014	100.00µL
R2302424-018	100.00µL										

Preparation Information Benchsheet

Prep Run#: 417371 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 3/29/23 10:26

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: 3/29/23 10:26
Finished: 3/29/23 15:20
By: XMI
Comments

Comments: _____

Reviewed By: XMI Date: 03/29/23

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:**	E2300305
Project:	HS23031702	**Date Collected:**	3/28/23 1300
Sample Matrix:	Water	**Date Received:**	3/29/23
Sample Name:	LH18/24-SP650_032823_AIX	**Units:**	µg/L
Lab Code:	E2300305-001	**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	**0.0593**	J	0.100	0.0500	0.0250	1	3/29/23	3/30/23 10:21	417371	799391	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300305
Project:	HS23031702	**Date Collected:**	3/28/23 1300
Sample Matrix:	Water	**Date Received:**	3/29/23
Sample Name:	LH18/24-SP650_032823_BIX	**Units:**	µg/L
Lab Code:	E2300305-002	**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	**2.35**		0.100	0.0500	0.0250	1	3/29/23	3/30/23 10:27	417371	799391	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300305
Project:	HS23031702	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300162-01	**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	3/29/23	3/30/23 10:01	417371	799391	

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	**Service Request:**	E2300305
Project:	HS23031702	**Date Analyzed:**	3/30/23
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:	417371

	Lab Control Sample EQ2300162-02			Duplicate Lab Control Sample EQ2300162-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0949	0.100	95	0.109	0.100	109	84 - 119	14	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:**	E2300305
Project:	HS23031702	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300162-02	**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	**0.0949**	J	0.100	0.0500	0.0250	1	3/29/23	3/30/23 10:07	417371	799391	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300305
Project:	HS23031702	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300162-03	**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	**0.109**		0.100	0.0500	0.0250	1	3/29/23	3/30/23 10:13	417371	799391	

HS23031702 Wet Chemistry

ALS WO# HS23031702

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

NIT_AMM_N_E350.3_ISE / NIT_AMM_N_ISE Logbook **32115**

Ion Selective Electrode Logbook

Analyst: AB/MD			Date: 04/05/23
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F			
Probe Calibration Date: 04/05/23	Cal Std ID: 3211017-(05-09)		Probe ID: NH3-8 N/A

Std Level		mV	Conc., mg/L:
STD 1 (mg/L): 0.2		127.3	0.200
STD 2 (mg/L): 1		93.7	1.000
STD 3 (mg/L): 5		46.9	5.007

Sodium Thiosulfate ID:		
Std Level	mV	Conc., mg/L:
STD 4 (mg/L):	35.3	9.956
STD 5 (mg/L):	-3.8	50.091

LSC / MS Spike ID: 3100607123
ICV Cal STD ID: 3211017-05
DPD Reagent ID: 3100606013
ICAL Date & Slope: 94.739 -55.9

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/–)	Comments
ICV		50mL	50mL		9.200			
ICB					0.003			
MBLK					0.005			
LCS					9.057			
HS2303 1702-01					1.159			-ve
1576-01					1.032			-ve
1716-01					1.046			-ve
1814-01					0.151			-ve
1884-01					1.208			-ve
1668-01					~~17.193~~	0.959		-ve
1823-01					1.266			-ve
086-01					1.442			-ve
OCV					9.433			
OCB					0.005			
1879-01					1.635			-ve
1879-01MS					11.906			-ve
1879-01MSD					12.498			-ve
1896-01					11.511			-ve
OCB					0.007			
OCV					9.387			
								AB 04/05/23

Batch ID: 431825/431827	Reported By	Reviewed By: MD

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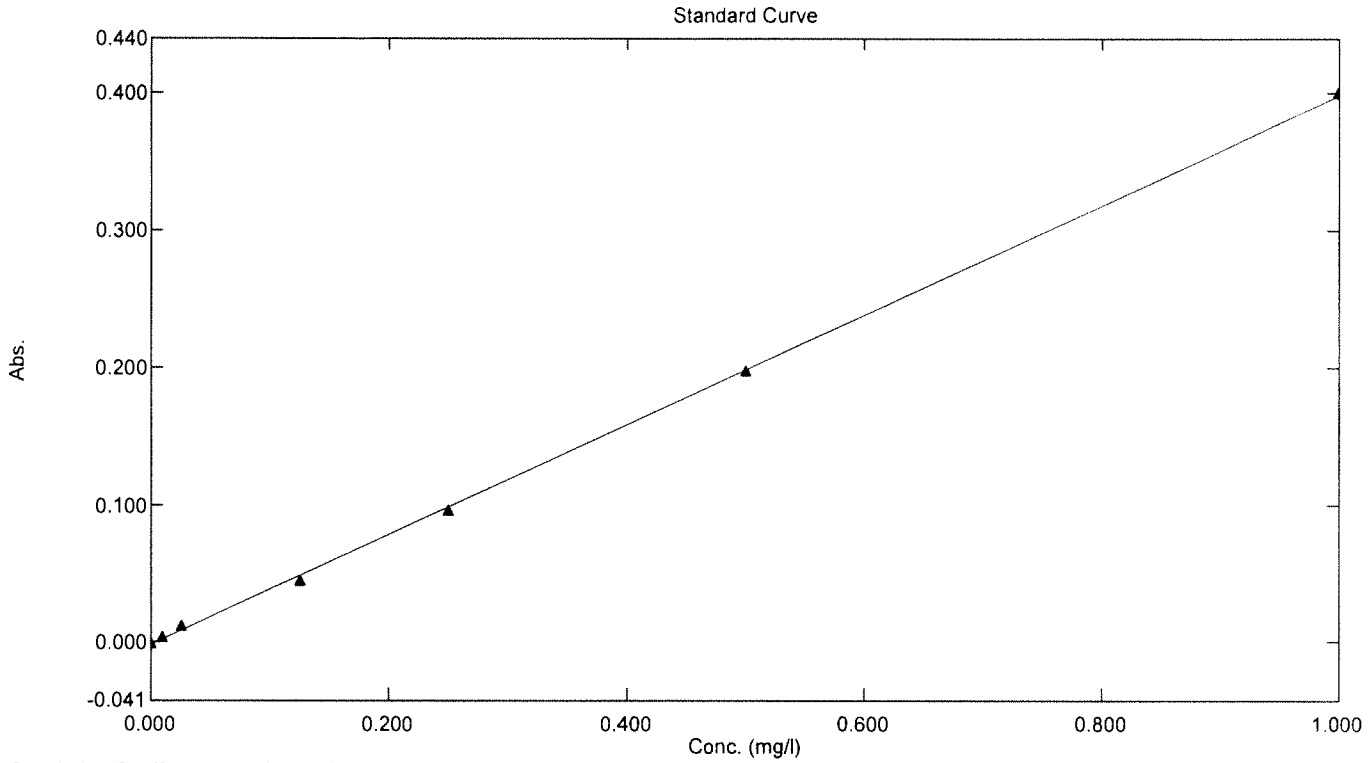
HS230317 02

Standard Table Report

03/30/2023 06:42:10 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO (365.3 METHOD)\2023\03302023_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

03/30/2023 06:42:12 PM

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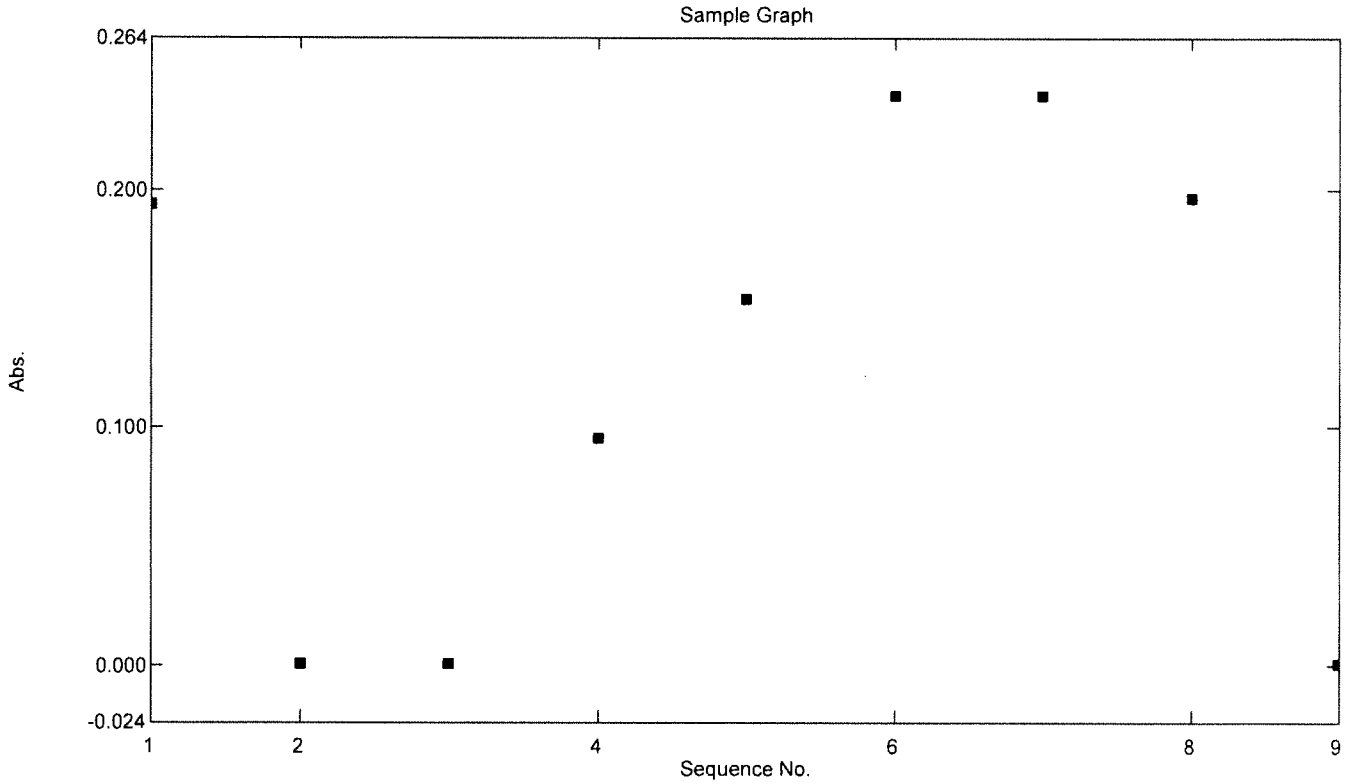


Sample Table

	Sample ID	Date	Time	Conc	WL650.	Comments
1	CCV	03/30/2023	11:55:44 AM	0.489	0.194	321103702 WC-20
2	CCB	03/30/2023	11:56:25 AM	0.003	0.000	
3	MBLK	03/30/2023	11:56:28 AM	0.004	0.000	
4	LCS	03/30/2023	11:56:51 AM	0.243	0.096	321103701 WC-20
5	HS23031702.01	03/30/2023	11:57:28 AM	0.388	0.154	PF:10X
6	HS23031702.01MS	03/30/2023	11:57:53 AM	0.603	0.240	PF:10X
7	HS23031702.01MSD	03/30/2023	11:57:55 AM	0.604	0.240	PF:10X
8	CCV2	03/30/2023	11:58:16 AM	0.495	0.196	
9	CCB2	03/30/2023	11:58:23 AM	0.004	0.000	
10						

C:\TOC-L\Data\2023_03_27_002.CAL.tlx

HS2303170Z

	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

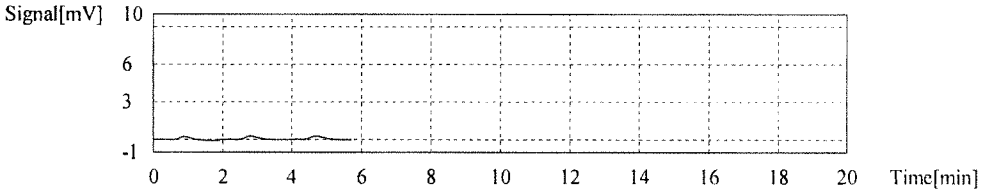
Sample Name:	CAL
Sample ID:	321104406
Cal. Curve:	03_27_2023_CAL.2023_03_27_13_24_18.cal
Status	Completed

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

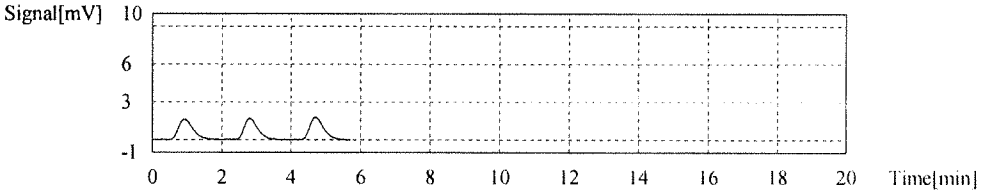
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	120.0sec
Mean Area	0.6784



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



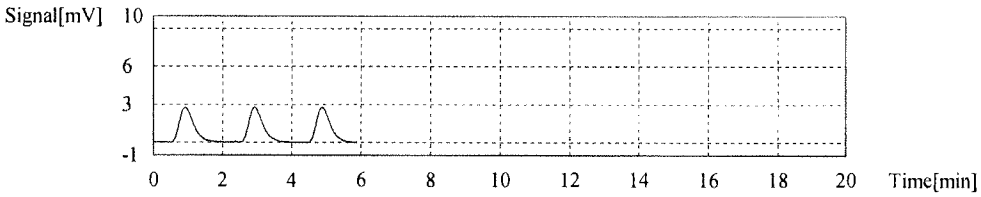
Conc: 2.000mg/L

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

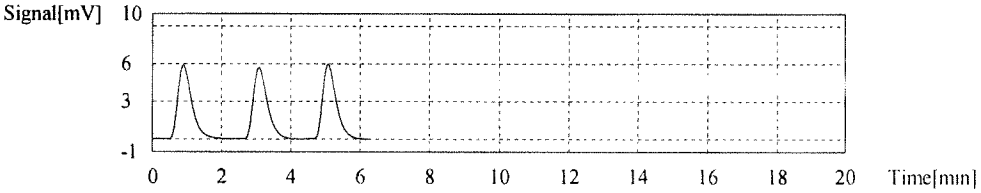
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 7.835



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

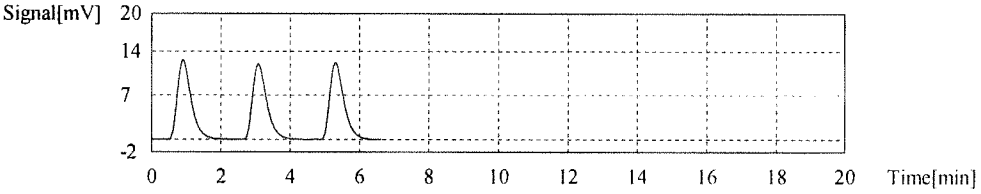
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 16.27



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

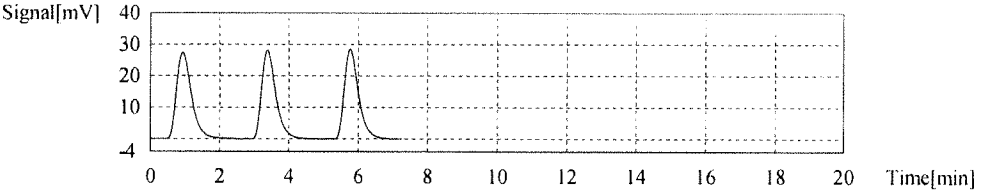
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 120.0sec
Mean Area 34.68



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



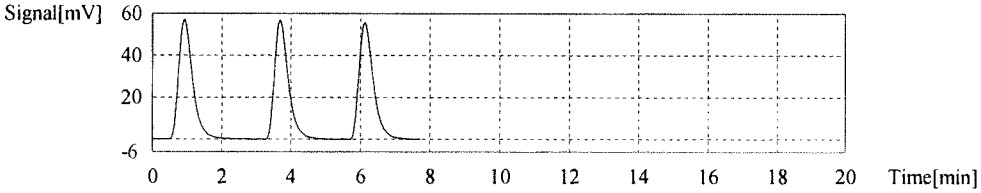
Conc: 50.00mg/L

TOC-Control L Report

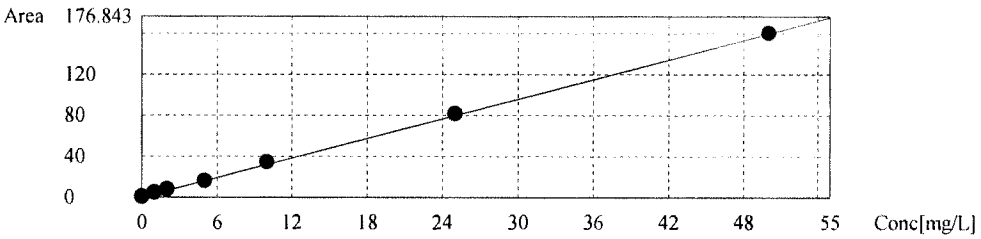
2023_03_27_002.CAL.tlx

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

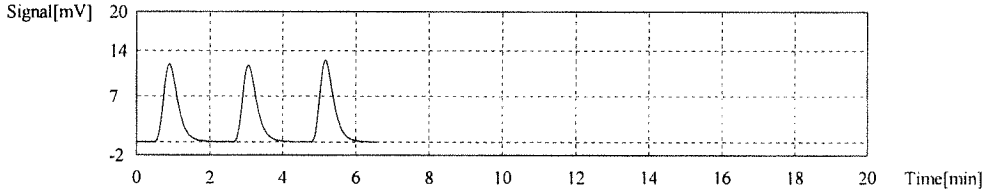
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC 10.39mg/L

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

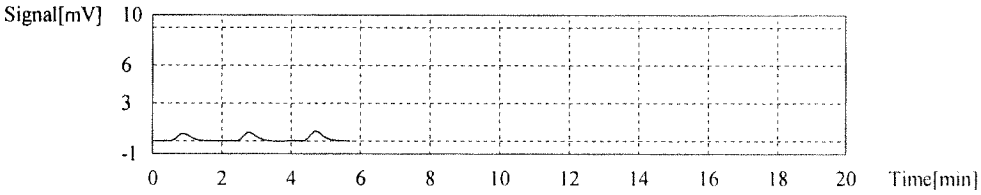
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5513mg/L

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_31_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Unknown	NPOC	CCV	321104509	03_27_2023	1.000	NPOC:26.56mg/L	
2	Unknown	NPOC	CCB		03_27_2023	1.000	NPOC:0.3804mg/	
3	Unknown	NPOC	MBLK-03312023		03_27_2023	1.000	NPOC:0.3534mg/	
4	Unknown	NPOC	LCS-03312023	3100660692	03_27_2023	1.000	NPOC:10.69mg/L	
5	Unknown	NPOC	LCSD-03312023		03_27_2023	1.000	NPOC:10.70mg/L	
6	Unknown	NPOC	HS23031702-01		03_27_2023	1.000	NPOC:7.233mg/L	
7	Unknown	NPOC	HS23031702-01MS		03_27_2023	1.000	NPOC:19.97mg/L	
8	Unknown	NPOC	HS23031515-01		03_27_2023	1.000	NPOC:0.6667mg/	
9	Unknown	NPOC	HS23031053-01		03_27_2023	1.000	NPOC:1.441mg/L	
10	Unknown	NPOC	HS23031053-02		03_27_2023	1.000	NPOC:1.521mg/L	
11	Unknown	NPOC	HS23031466-01		03_27_2023	1.000	NPOC:12.35mg/L	
12	Unknown	NPOC	CCV	321104509	03_27_2023	1.000	NPOC:26.30mg/L	
13	Unknown	NPOC	CCB		03_27_2023	1.000	NPOC:0.2585mg/	
14	Unknown	NPOC	HS23031647-01		03_27_2023	1.000	NPOC:0.2009mg/	
15	Unknown	NPOC	HS23031647-04		03_27_2023	1.000	NPOC:0.2359mg/	
16	Unknown	NPOC	CCV	321104509	03_27_2023	1.000	NPOC:25.90mg/L	
17	Unknown	NPOC	CCB		03_27_2023	1.000	NPOC:0.2023mg/	

C:\TOC-L\Data\2023_03_31_001.tlx

	Status	Date / Time	Vial
1	Completed	3/31/2023 10:54:02	1
2	Completed	3/31/2023 11:06:20	2
3	Completed	3/31/2023 11:18:37	3
4	Completed	3/31/2023 11:32:07	4
5	Completed	3/31/2023 11:45:13	5
6	Completed	3/31/2023 11:58:10	6
7	Completed	3/31/2023 12:11:54	7
8	Completed	3/31/2023 12:24:11	8
9	Completed	3/31/2023 12:36:29	9
10	Completed	3/31/2023 12:48:54	10
11	Completed	3/31/2023 1:02:31	11
12	Completed	3/31/2023 1:16:29	1
13	Completed	3/31/2023 1:28:46	2
14	Completed	3/31/2023 1:44:10	12
15	Completed	3/31/2023 1:57:16	13
16	Completed	3/31/2023 2:11:35	1
17	Completed	3/31/2023 2:23:52	2

TOC-Control L Report

2023_03_31_001.tlx

Instr.Information

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

Sample

Sample Name: CCV
Sample ID: 321104509
Origin: 03_27_2023_CAL.cal
Status: Completed
Chk. Result:

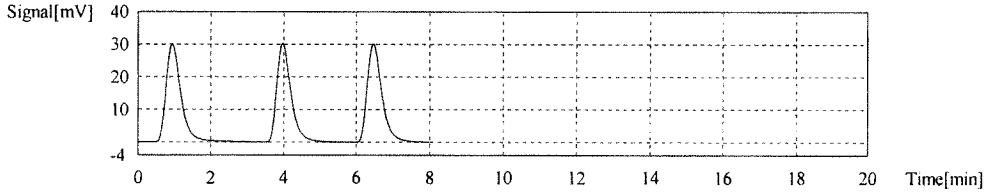
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.56mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	86.23	26.97mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 10:48:37 AM
2	83.47	26.11mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 10:51:22 AM
3	85.01	26.59mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 10:54:02 AM

Mean Area: 84.90
Mean Conc.: 26.56mg/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:0.3804mg/L

1. Det

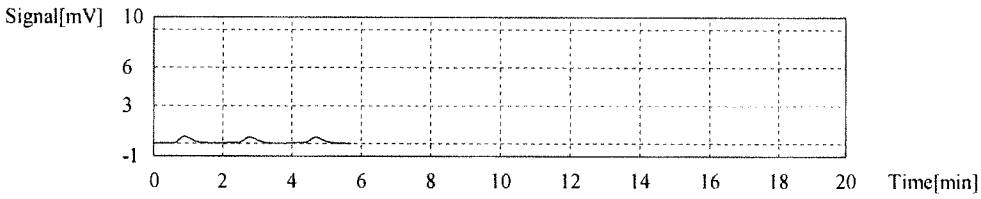
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.359	0.4251mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:02:06 AM
2	1.184	0.3704mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:04:13 AM
3	1.105	0.3456mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:06:20 AM

TOC-Control L Report

2023_03_31_001.tlx

Mean Area 1.216
Mean Conc. 0.3804mg/L



Sample

Sample Name: MBLK-03312023
Sample ID:
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

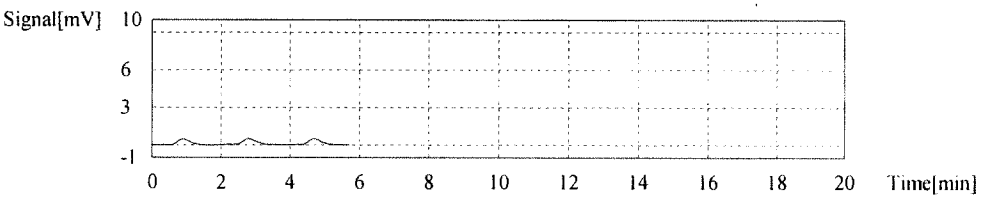
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3534mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.223	0.3826mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:14:23 AM
2	1.090	0.3410mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:16:30 AM
3	1.076	0.3366mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:18:37 AM

Mean Area 1.130
Mean Conc. 0.3534mg/L



Sample

Sample Name: LCS-03312023
Sample ID: 3100660692
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.69mg/L

1. Det

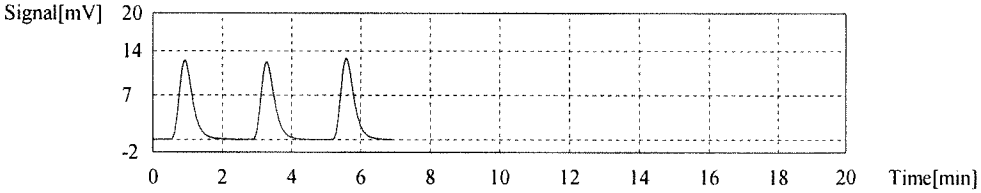
Anal.: NPOC

TOC-Control L Report

2023_03_31_001.tlx

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.12	10.67mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:27:08 AM
2	33.52	10.49mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:29:41 AM
3	34.88	10.91mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:32:07 AM

Mean Area 34.17
Mean Conc. 10.69mg/L



Sample

Sample Name: LCSD-03312023
Sample ID:
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

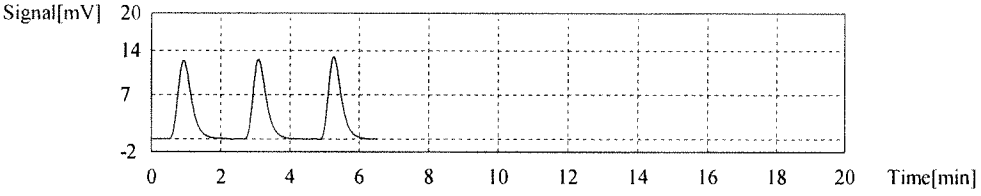
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.70mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.10	10.67mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:40:28 AM
2	33.71	10.54mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:42:52 AM
3	34.80	10.89mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:45:13 AM

Mean Area 34.20
Mean Conc. 10.70mg/L



Sample

Sample Name: HS23031702-01
Sample ID:
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.233mg/L

1. Det

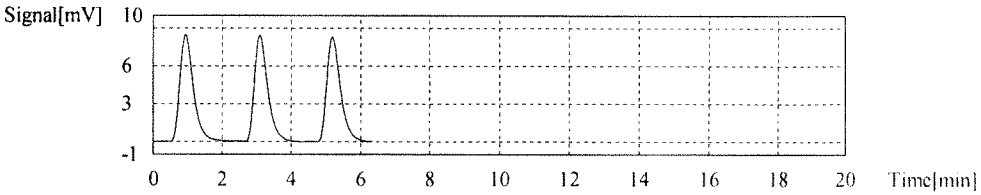
TOC-Control L Report

2023_03_31_001.tlx

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	23.27	7.279mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:53:33 AM
2	22.92	7.169mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:55:52 AM
3	23.18	7.251mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 11:58:10 AM

Mean Area 23.12
Mean Conc. 7.233mg/L



Sample

Sample Name: HS23031702-01MS
Sample ID:
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

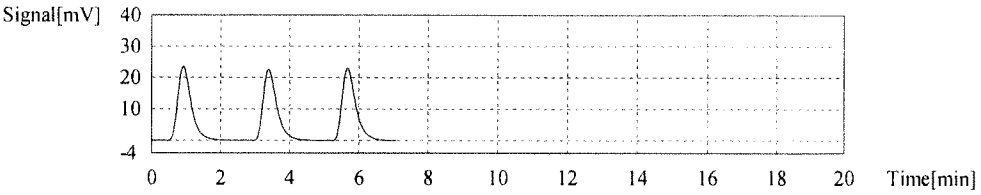
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:19.97mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	64.64	20.22mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 12:06:49 PM
2	62.80	19.64mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 12:09:21 PM
3	64.13	20.06mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 12:11:54 PM

Mean Area 63.86
Mean Conc. 19.97mg/L



Sample

Sample Name: CCV
Sample ID: 321104509
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.30mg/L

TOC-Control L Report

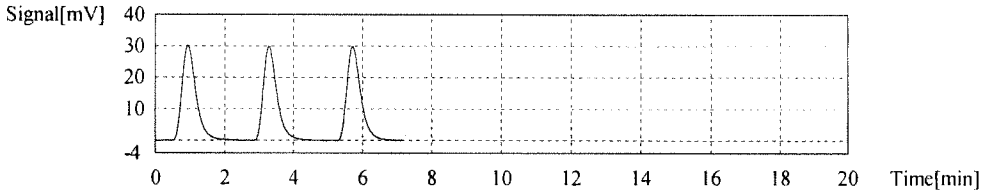
2023_03_31_001.tlx

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	85.02	26.59mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 1:11:12 PM
2	83.04	25.97mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 1:13:52 PM
3	84.19	26.33mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 1:16:29 PM

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

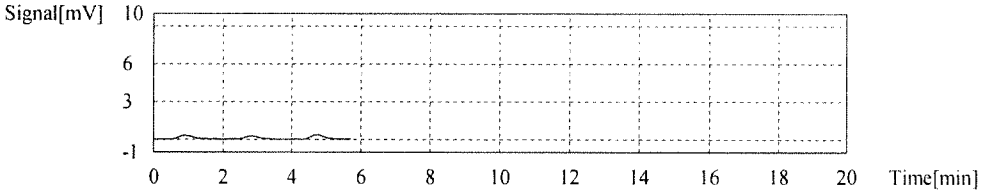
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2585mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8739	0.2734mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 1:24:31 PM
2	0.6443	0.2015mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 1:26:39 PM
3	0.9609	0.3006mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 1:28:46 PM

Mean Area 0.8264
Mean Conc. 0.2585mg/L



Sample

Sample Name: CCV
Sample ID: 321104509
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

TOC-Control L Report

2023_03_31_001.tlx

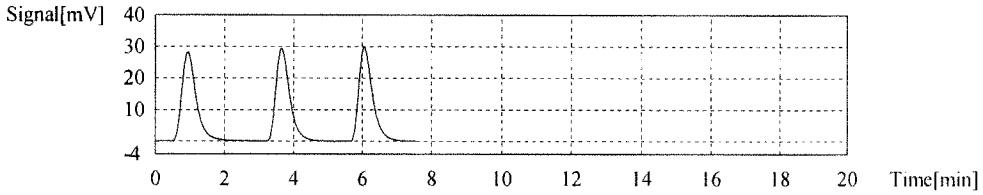
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.90mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	82.82	25.91mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 2:06:18 PM
2	81.97	25.64mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 2:08:58 PM
3	83.58	26.14mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 2:11:35 PM

Mean Area 82.79
Mean Conc. 25.90mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 03_27_2023_CAL.cal
Status Completed
Chk. Result

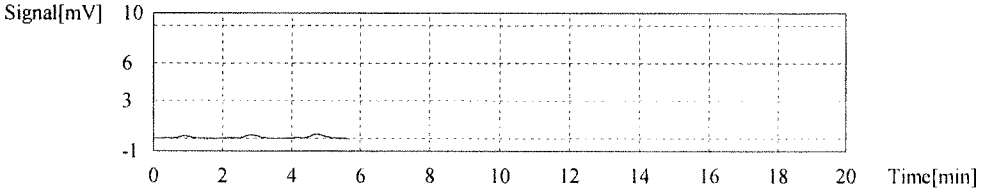
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2023mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4722	0.1477mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 2:19:37 PM
2	0.6567	0.2054mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 2:21:45 PM
3	0.8115	0.2538mg/L	50uL	1.000		03_27_2023_CAL.2023_03_27_13_24_18.cal	3/31/2023 2:23:52 PM

Mean Area 0.6468
Mean Conc. 0.2023mg/L



HS23031702-E2300305 Perchlorate Level IV Report

ALS WO# HS23031702

March 31, 2023 Service Request No:E2300305

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

Laboratory Results for: HS23031702

Dear Dane,

Enclosed are the results of the sample(s) submitted to our laboratory March 29, 2023
For your reference, these analyses have been assigned our service request number **E2300305.**

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

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ALS Group USA, Corp.
dba ALS Environmental

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.:**	E2300305
Project:	HS23031702	**Date Received:**	03/29/23
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 samples were received for analysis at ALS Environmental in Houston on 03/29/23.

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:

EQ2300162: 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:**E2300305
Project: HS23031702

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2300305-001	LH18/24-SP650_032823_AIX	3/28/2023	1300
E2300305-002	LH18/24-SP650_032823_BIX	3/28/2023	1300

Service Request Summary

Folder #: **E2300305**
Client Name: ALS Environmental - US
Project Name: HS23031702
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: 03/29/23
Internal Due Date: 3/30/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23031702
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	HOUSTON ClO4 DOD/6850
E2300305-001	LH18/24-SP650_032823_AIX	Water	03/28/23 1300	**IV**
E2300305-002	LH18/24-SP650_032823_BIX	Water	03/28/23 1300	**IV**

Service Request Summary

Folder #: **E2300305**
Client Name: ALS Environmental - US
Project Name: HS23031702
Project Number:

Report To: Dane Wacasey
ALS Group USA, Corp.
10450 Stancliff Road
Houston, TX 77099-4338
USA
Phone Number: 281-575-2190
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Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: JGUIN
Date Received: 03/29/23
Internal Due Date: 3/30/2023
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: HS23031702
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

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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
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 Specialties Laboratory
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www.alsglobal.com

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Houston, TX 77099
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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **21268**

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:	HS23031702
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS23031702-02**	**LH18/24-SP650_032823_AIX**	**Water**	**28 Mar 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			30 Mar 2023
2.	**HS23031702-03**	**LH18/24-SP650_032823_BIX**	**Water**	**28 Mar 2023 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			30 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: 3-29-23 1330

Received By: _____ Date/Time: _____

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

RIGHT SOLUTIONS | RIGHT PARTNER

Cooler Receipt Form

ALS Environmental

Project Chemist JG

Client/Project HS

Thermometer ID IR31

Date/Time Received: 3/29/23 1330 Initials: JG

Date/Time Logged in: 3/29/23 1343 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?
		3/29/23	1330	JG		☐
						☐
						☐
						☐

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

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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#: 417371 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 3/29/23 10:26

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2300302-001	K200-RS1583-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
2	E2300302-002	K99-RS698-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
3	E2300302-003	K99-RS609-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
4	E2300302-004	K99-RS-696-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
5	E2300302-005	K99-RS697-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
6	E2300302-006	K200-RS1586-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
7	E2300302-007	K99-RS612-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
8	E2300302-008	K99-RS701-230323	.01	6850/ClO4 DOD			Ground Water	10mL	
9	E2300305-001	LH18/24-SP650_032823_AIX	.01	6850/ClO4 DOD			Water	10mL	
10	E2300305-002	LH18/24-SP650_032823_BIX	.01	6850/ClO4 DOD			Water	10mL	
11	EQ2300162-01	MB		6850/ClO4 DOD			Liquid	10mL	
12	EQ2300162-02	LCS		6850/ClO4 DOD			Liquid	10mL	
13	EQ2300162-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
14	K2302952-001	LGAC-INF-031323	.01	6850/ClO4			Water	10mL	
15	K2303524-001	RB20230322161400	.01	6850/ClO4			Water	10mL	
16	R2302424-003	2303201037A 700-J-200	.01	6850/ClO4			Water	10mL	
17	R2302424-004	2303201315X 700-H-670	.01	6850/ClO4			Water	10mL	
18	R2302424-007	2303211005C 700-D-786	.01	6850/ClO4			Water	10mL	
19	R2302424-008	2303211012X 700-H-535	.01	6850/ClO4			Water	10mL	
20	R2302424-011	2303211017A 700-A-253	.01	6850/ClO4			Water	10mL	
21	R2302424-014	2303211506A BLM-5-527	.01	6850/ClO4			Water	10mL	
22	R2302424-018	2303220857X 700-H-350	.01	6850/ClO4			Water	10mL	

Spiking Solutions

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

EQ2300162-01	1.00µL	EQ2300162-02	1.00µL	EQ2300162-02	1.00µL	EQ2300162-03	1.00µL	EQ2300162-03	1.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 227244 Logbook Ref: Perchlorate Internal Standard Expires On: 07/31/2023

E2300302-001	100.00µL	E2300302-002	100.00µL	E2300302-003	100.00µL	E2300302-004	100.00µL	E2300302-005	100.00µL	E2300302-006	100.00µL
E2300302-007	100.00µL	E2300302-008	100.00µL	E2300305-001	100.00µL	E2300305-002	100.00µL	EQ2300162-01	100.00µL	EQ2300162-01	100.00µL
EQ2300162-02	100.00µL	EQ2300162-02	100.00µL	EQ2300162-03	100.00µL	EQ2300162-03	100.00µL	K2302952-001	100.00µL	K2303524-001	100.00µL
R2302424-003	100.00µL	R2302424-004	100.00µL	R2302424-007	100.00µL	R2302424-008	100.00µL	R2302424-011	100.00µL	R2302424-014	100.00µL
R2302424-018	100.00µL										

Preparation Information Benchsheet

Prep Run#: 417371 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/CGUERRA **Prep Method:** Method **Prep Date/Time:** 3/29/23 10:26

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: 3/29/23 10:26
Finished: 3/29/23 15:20
By: XMI
Comments

Comments: _____

Reviewed By: XMI Date: 03/29/23

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300305
Project:	HS23031702	**Date Collected:**	3/28/23 1300
Sample Matrix:	Water	**Date Received:**	3/29/23
Sample Name:	LH18/24-SP650_032823_AIX	**Units:**	µg/L
Lab Code:	E2300305-001	**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	**0.0593**	J	0.100	0.0500	0.0250	1	3/29/23	3/30/23 10:21	417371	799391	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300305
Project:	HS23031702	**Date Collected:**	3/28/23 1300
Sample Matrix:	Water	**Date Received:**	3/29/23
Sample Name:	LH18/24-SP650_032823_BIX	**Units:**	µg/L
Lab Code:	E2300305-002	**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	**2.35**		0.100	0.0500	0.0250	1	3/29/23	3/30/23 10:27	417371	799391	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300305
Project:	HS23031702	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2300162-01	**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	3/29/23	3/30/23 10:01	417371	799391	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300305
Project:	HS23031702	**Date Analyzed:**	3/30/23
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:	417371

	Lab Control Sample EQ2300162-02			Duplicate Lab Control Sample EQ2300162-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.0949	0.100	95	0.109	0.100	109	84 - 119	14	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:**	E2300305
Project:	HS23031702	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300162-02	**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	**0.0949**	J	0.100	0.0500	0.0250	1	3/29/23	3/30/23 10:07	417371	799391	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2300305
Project:	HS23031702	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2300162-03	**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	**0.109**		0.100	0.0500	0.0250	1	3/29/23	3/30/23 10:13	417371	799391	

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

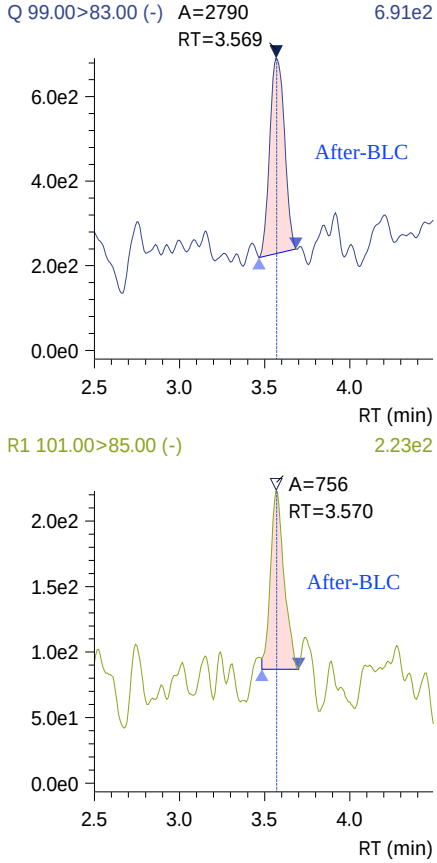
PERCHLORATE1

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	----	----	

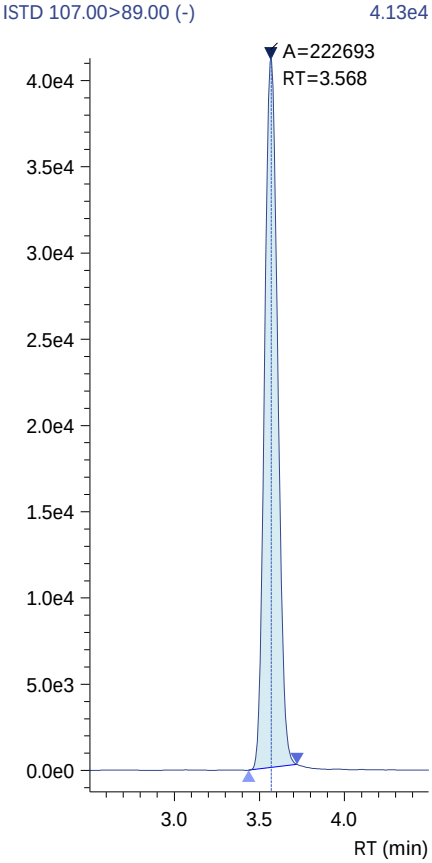
Perchlorate

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

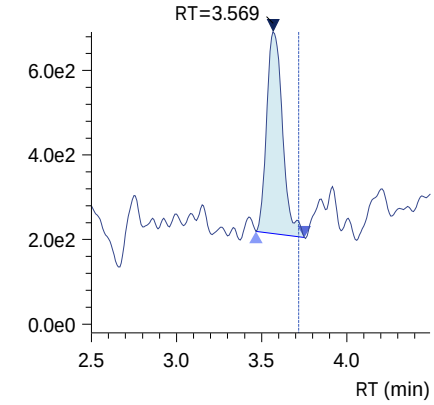
PERCHLORATE1

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

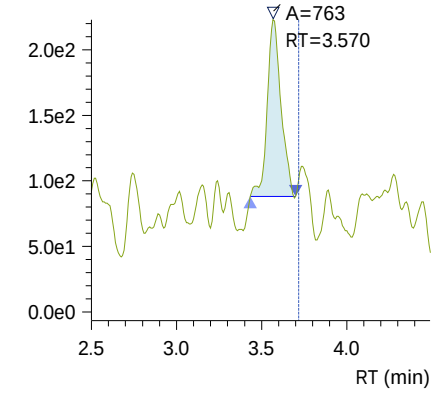
Perchlorate

Conc 0.0996
R#1 24.56 (34.45)

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



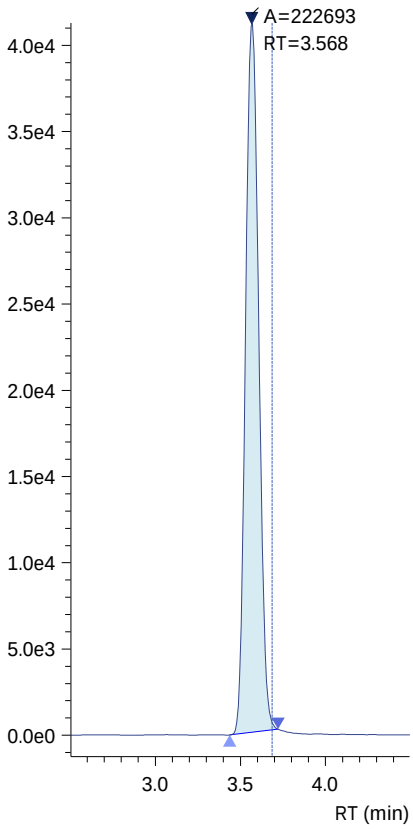
R1 101.00>85.00 (-) 2.23e2



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

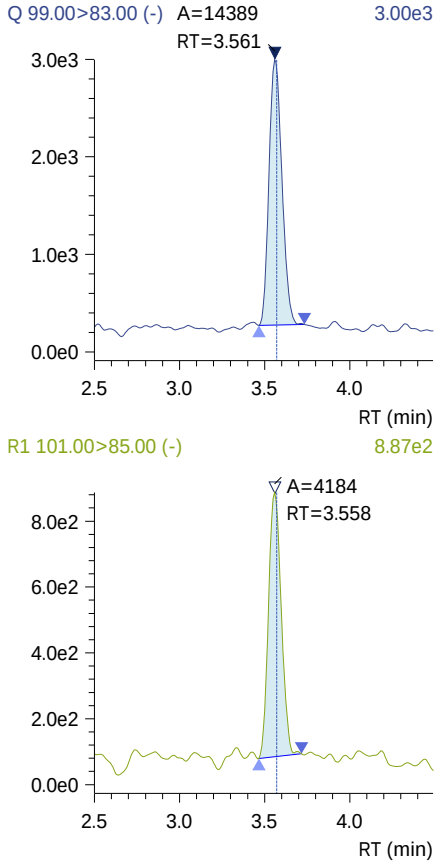
PERCHLORATE2

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	----	----	

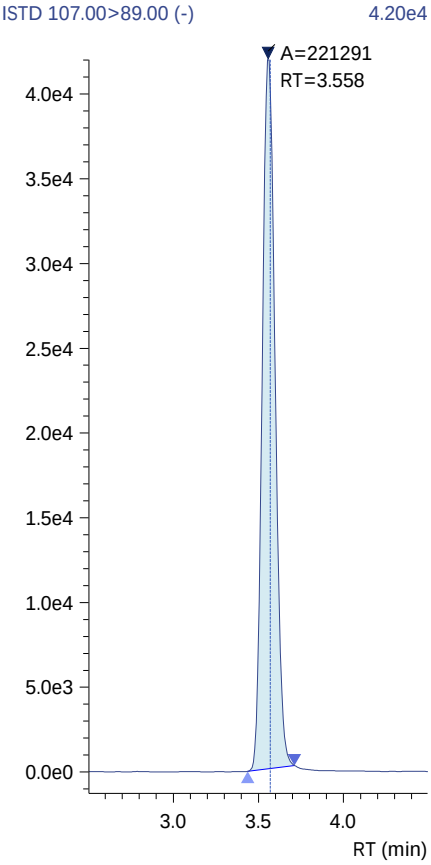
Perchlorate

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

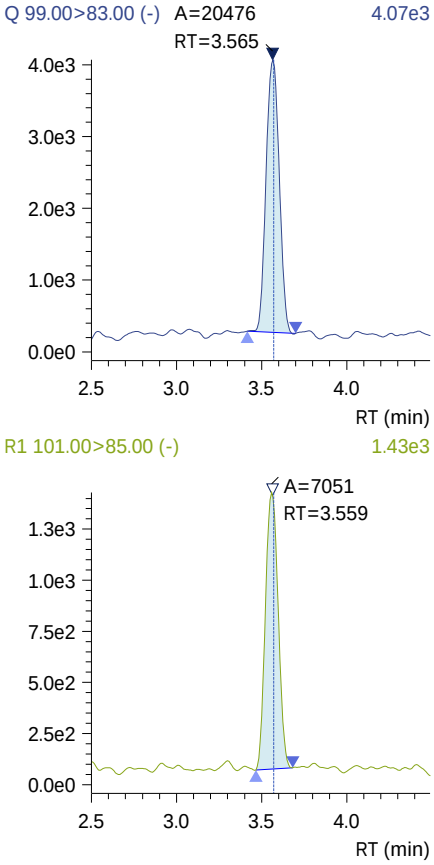
PERCHLORATE3

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	----	----	

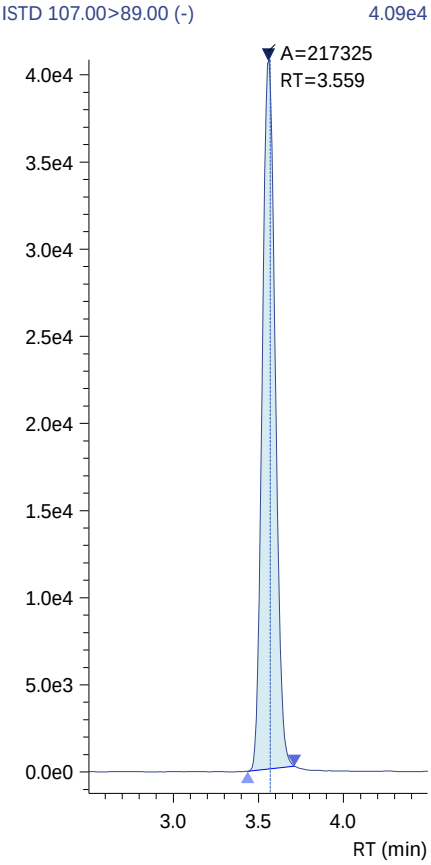
Perchlorate

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

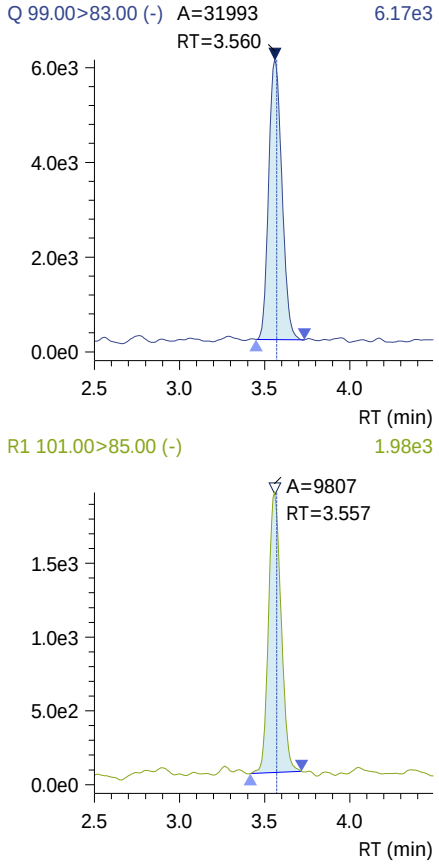
PERCHLORATE4

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	----	----	

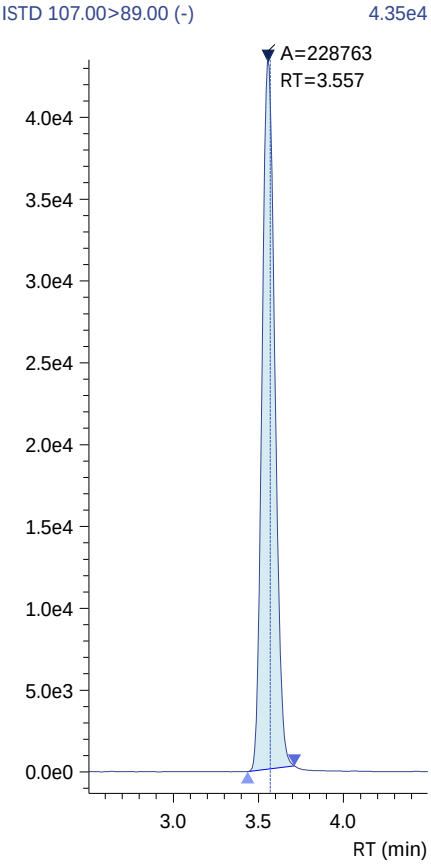
Perchlorate

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

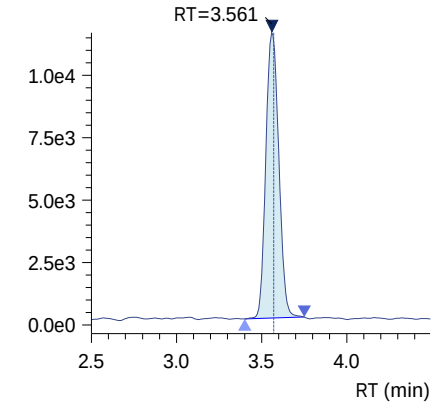
Sample ID: PERCHLORATE5
Date Acquired: 2/1/2023 12:13:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-007.lcd
Vial: 5 | Inj. Volume: 25.0000uL | Tray: 1

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	----	----	

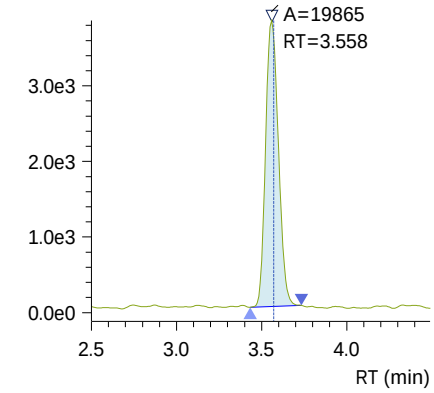
Perchlorate

Conc 2.0296
R#1 32.70 (31.99)

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



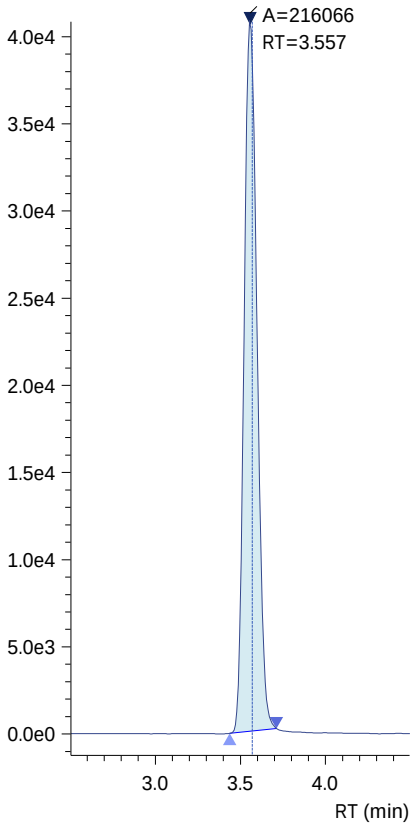
R1 101.00>85.00 (-) 3.87e3



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

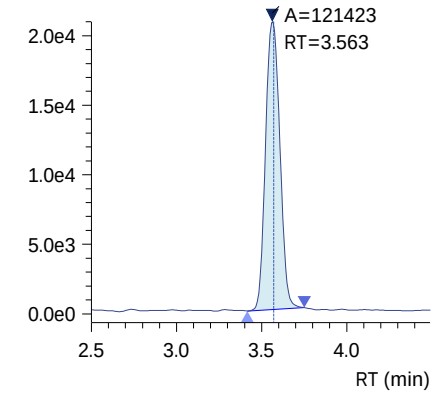
Sample ID: PERCHLORATE6
Date Acquired: 2/1/2023 12:19:20 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-008.lcd
Vial: 6 | Inj. Volume: 25.0000uL | Tray: 1

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	----	----	

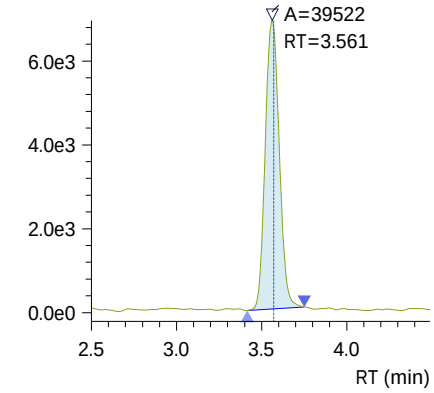
Perchlorate

Conc 5.0667
R#1 32.55 (31.99)

Q 99.00>83.00 (-) 2.10e4



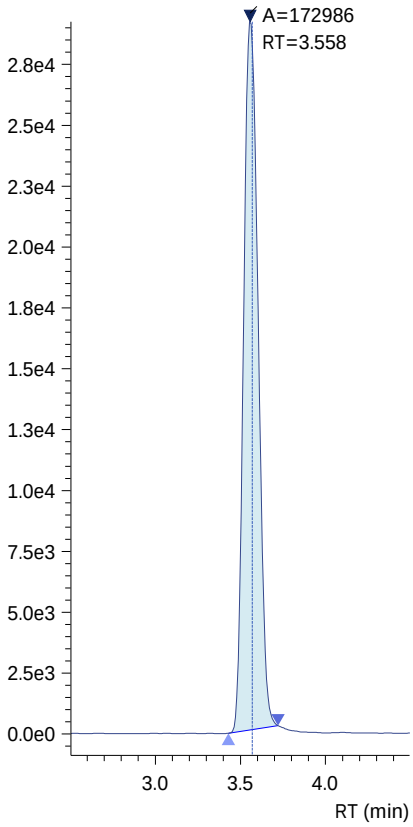
R1 101.00>85.00 (-) 6.97e3



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

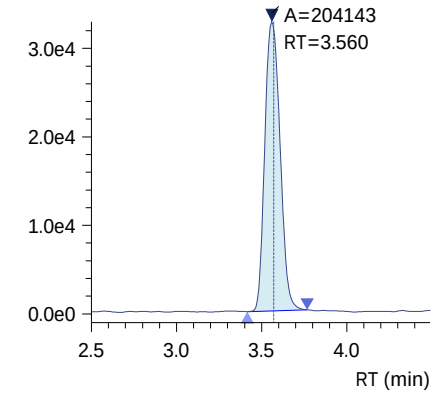
Sample ID: PERCHLORATE7
Date Acquired: 2/1/2023 12:25:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-009.lcd
Vial: 7 | Inj. Volume: 25.0000uL | Tray: 1

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	1441 96	144196	1.0000	ng/mL	----	----	

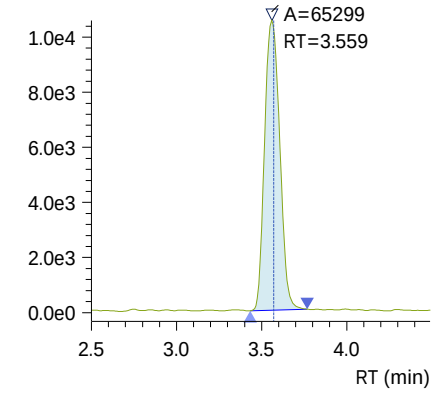
Perchlorate

Conc 10.2192
R#1 31.99 (31.99)

Q 99.00>83.00 (-) 3.30e4



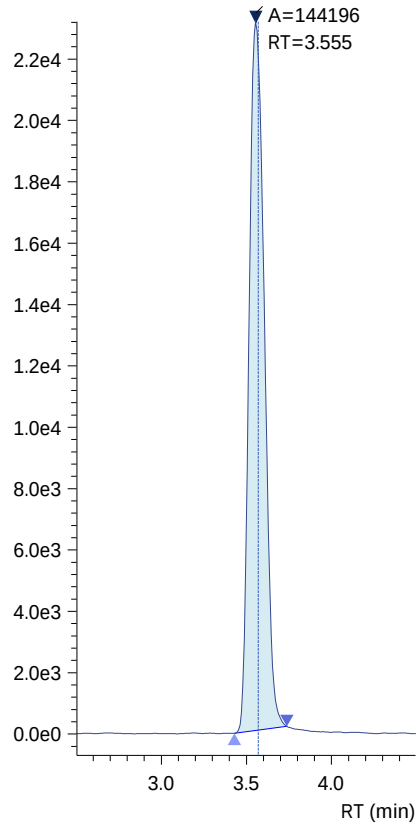
R1 101.00>85.00 (-) 1.06e4



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

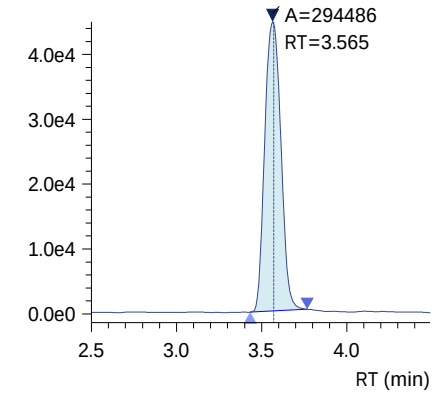
Sample ID: PERCHLORATE8
Date Acquired: 2/1/2023 12:30:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-010.lcd
Vial: 8 | Inj. Volume: 25.0000uL | Tray: 1

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	----	----	

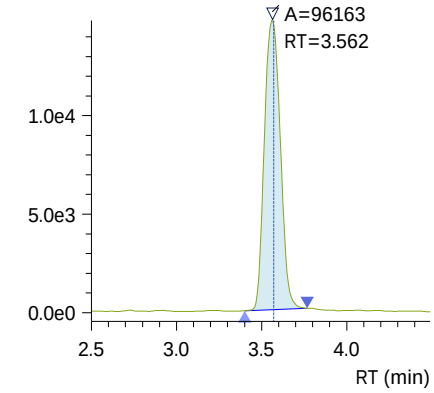
Perchlorate

Conc 20.3065
R#1 32.66 (31.99)

Q 99.00>83.00 (-) 4.50e4



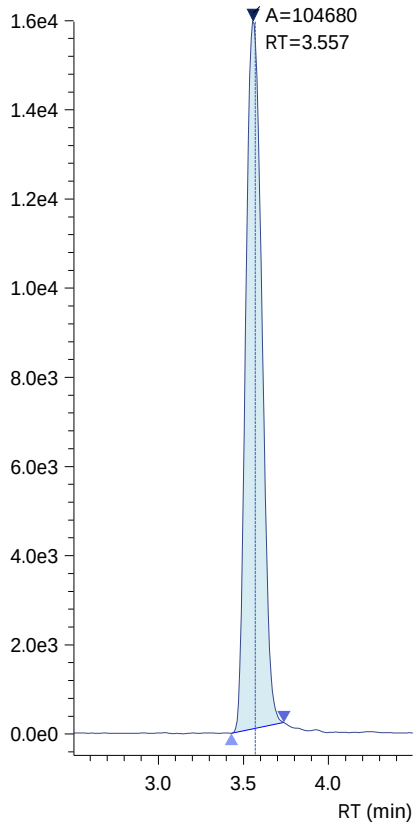
R1 101.00>85.00 (-) 1.48e4



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

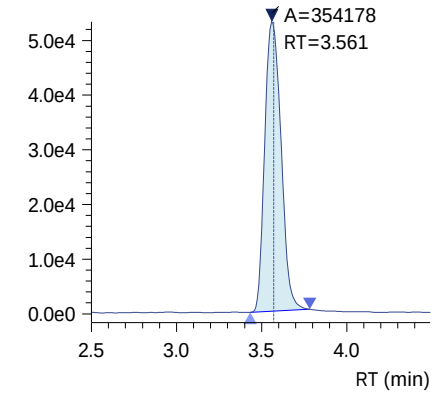
Sample ID: PERCHLORATE9
Date Acquired: 2/1/2023 12:36:45 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-011.lcd
Vial: 9 | Inj. Volume: 25.0000uL | Tray: 1

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	----	----	

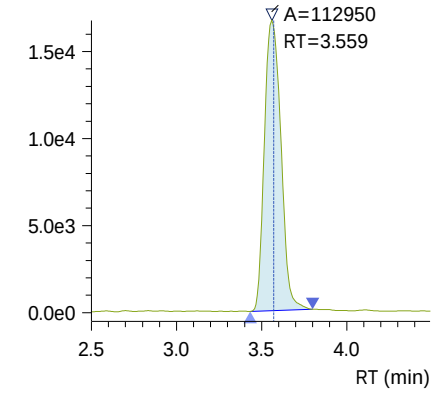
Perchlorate

Conc 31.3395
R#1 31.89 (31.99)

Q 99.00>83.00 (-) 5.34e4



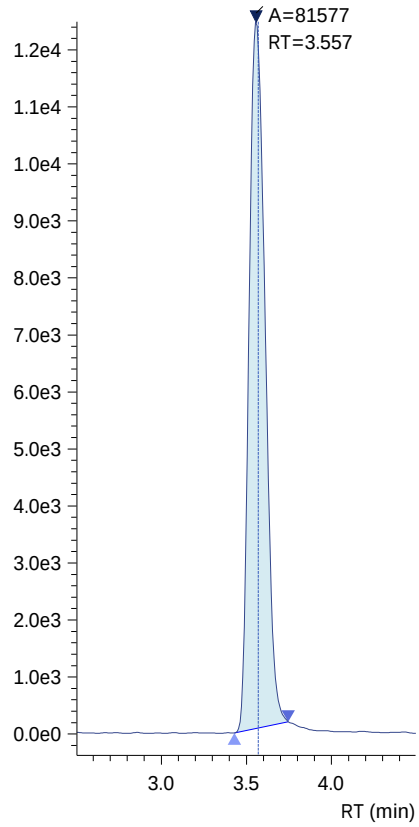
R1 101.00>85.00 (-) 1.68e4



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

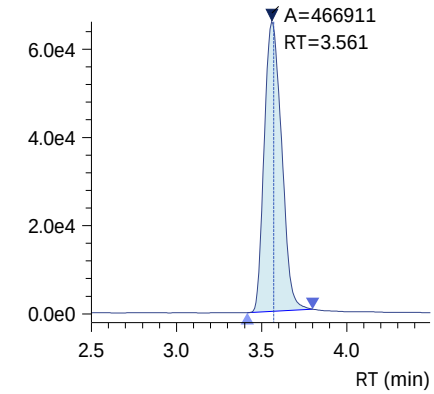
Sample ID: PERCHLORATE10
Date Acquired: 2/1/2023 12:42:34 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-012.lcd
Vial: 10 | Inj. Volume: 25.0000uL | Tray: 1

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	----	----	

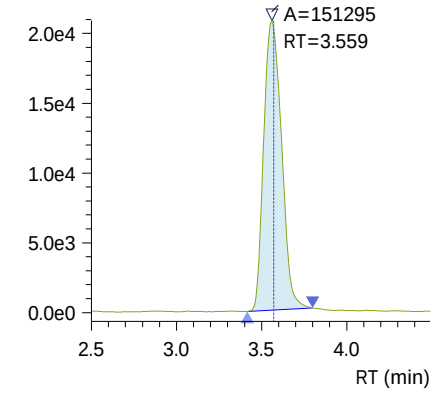
Perchlorate

Conc 53.2964
R#1 32.40 (31.99)

Q 99.00>83.00 (-) 6.62e4



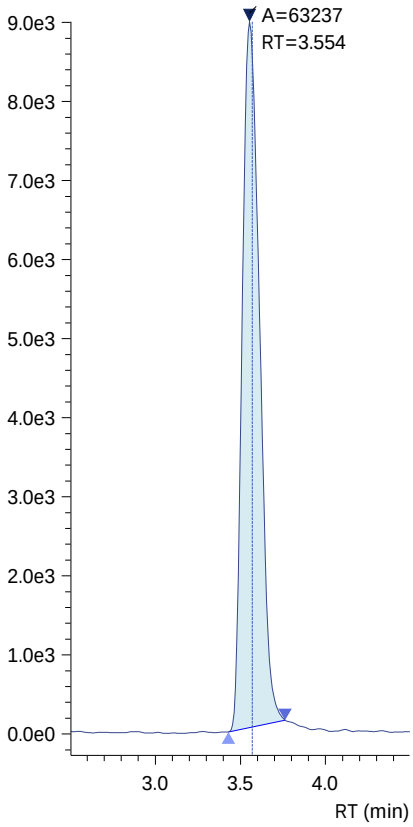
R1 101.00>85.00 (-) 2.09e4



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

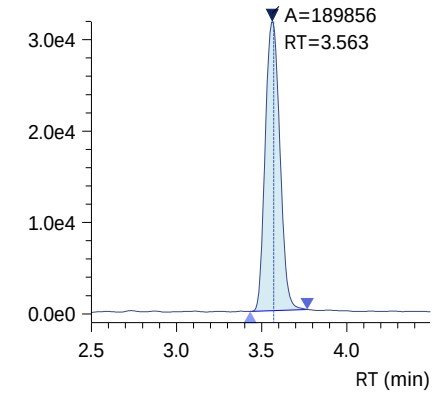
Sample ID: PERCHLORATEICV
Date Acquired: 2/1/2023 12:48:22 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\02012023\20230201-013.lcd
Vial: 11 | Inj. Volume: 25.0000uL | Tray: 1

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	----	----	

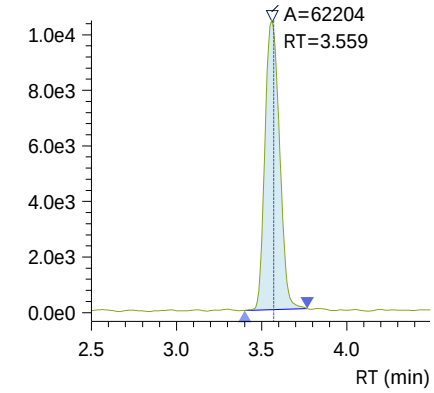
Perchlorate

Conc 10.5379
R#1 32.76 (31.99)

Q 99.00>83.00 (-) 3.20e4



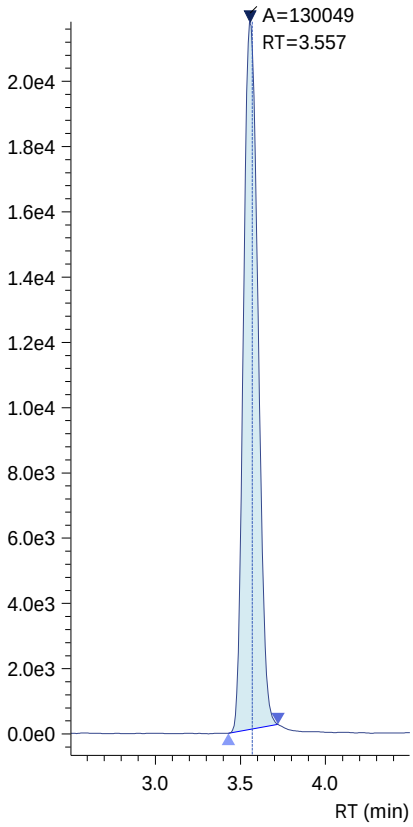
R1 101.00>85.00 (-) 1.05e4



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

20230330-799391

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	IB		20230330-001	Perchlorate6850c.lcm	1x	☒		3/30/2023 9:18
2	ICS		20230330-002	Perchlorate6850c.lcm	1x	☒	32103024	3/30/2023 9:38
3	LODV		20230330-003	Perchlorate6850c.lcm	1x	☒	227501	3/30/2023 9:49
4	PERCHLORATE7		20230330-004	Perchlorate6850c.lcm	1x	☒	227251	3/30/2023 9:56
5	EQ2300162-01		20230330-005	Perchlorate6850c.lcm	1x	☒		3/30/2023 10:01
6	EQ2300162-02		20230330-006	Perchlorate6850c.lcm	1x	☒		3/30/2023 10:07
7	EQ2300162-03		20230330-007	Perchlorate6850c.lcm	1x	☒		3/30/2023 10:13
8	E2300305-001		20230330-008	Perchlorate6850c.lcm	1x	☒		3/30/2023 10:21
9	E2300305-002		20230330-009	Perchlorate6850c.lcm	1x	☒		3/30/2023 10:27
10	K2303524-001		20230330-010	Perchlorate6850c.lcm	1x	☒		3/30/2023 10:33
11	K2302952-001		20230330-011	Perchlorate6850c.lcm	1x	☒		3/30/2023 10:38
12	R2302424-003		20230330-012	Perchlorate6850c.lcm	1x	☒		3/30/2023 10:44
13	R2302424-004		20230330-013	Perchlorate6850c.lcm	1x	☒		3/30/2023 10:50
14	R2302424-007		20230330-014	Perchlorate6850c.lcm	1x	☒		3/30/2023 10:56
15	PERCHLORATE7		20230330-015	Perchlorate6850c.lcm	1x	☒	227251	3/30/2023 11:01
16	R2302424-008		20230330-016	Perchlorate6850c.lcm	1x	☒		3/30/2023 11:07
17	R2302424-011		20230330-017	Perchlorate6850c.lcm	1x	☒		3/30/2023 11:13
18	R2302424-014		20230330-018	Perchlorate6850c.lcm	1x	☒		3/30/2023 11:18
19	R2302424-018		20230330-019	Perchlorate6850c.lcm	1x	☒		3/30/2023 11:24
20	E2300302-001		20230330-020	Perchlorate6850c.lcm	1x	☒		3/30/2023 11:30
21	E2300302-002		20230330-021	Perchlorate6850c.lcm	1x	☒		3/30/2023 11:36
22	E2300302-003		20230330-022	Perchlorate6850c.lcm	1x	☒		3/30/2023 11:48
23	E2300302-004		20230330-023	Perchlorate6850c.lcm	100x	☒		3/30/2023 11:54
24	E2300302-005		20230330-024	Perchlorate6850c.lcm	1x	☒		3/30/2023 12:00
25	E2300302-006		20230330-025	Perchlorate6850c.lcm	1x	☒		3/30/2023 12:05
26	PERCHLORATE7		20230330-026	Perchlorate6850c.lcm	1x	☒	227251	3/30/2023 12:11
27	E2300302-007		20230330-027	Perchlorate6850c.lcm	1x	☒		3/30/2023 12:17
28	E2300302-008		20230330-028	Perchlorate6850c.lcm	1x	☒		3/30/2023 12:22
29	R2302281-012		20230330-029	Perchlorate6850c.lcm	1x	☒		3/30/2023 12:28
30	R2302352-012		20230330-030	Perchlorate6850c.lcm	1x	☒		3/30/2023 12:34
31	E2300281-002		20230330-031	Perchlorate6850c.lcm	1x	☒		3/30/2023 12:51
32	PERCHLORATE7		20230330-032	Perchlorate6850c.lcm	1x	☒	227251	3/30/2023 12:57

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2300305
Project:	HS23031702	**Date Analyzed:**	3/30/23 09:56

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230330\20230330-004	**Lab Code:**	EQ2300168-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	799391
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	EQ2300168-01	141,668	3.36
Method Blank	EQ2300162-01	195,754	3.36
Lab Control Sample	EQ2300162-02	192,284	3.36
Duplicate Lab Control Sample	EQ2300162-03	194,412	3.36
LH18/24-SP650_032823_AIX	E2300305-001	229,058	3.36
LH18/24-SP650_032823_BIX	E2300305-002	233,780	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:**	E2300305
Project:	HS23031702	**Date Analyzed:**	3/30/23 11:01

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230330\20230330-015	**Lab Code:**	EQ2300168-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	799391
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	EQ2300168-02	160,696	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:**	E2300305
Project:	HS23031702	**Date Analyzed:**	3/30/23 12:11

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230330\20230330-026	**Lab Code:**	EQ2300168-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	799391
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	EQ2300168-03	143,219	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:**	E2300305
Project:	HS23031702	**Date Analyzed:**	3/30/23 12:57

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20230330\20230330-032	**Lab Code:**	EQ2300168-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	799391
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	EQ2300168-04	149,807	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: HS23031702

Service Request: E2300305
Date Analyzed: 3/30/23

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\20230330\20230330-004

Calibration Date: 2/1/23
Calibration ID: EC2300002
Analysis Lot: 799391
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1385	0.1502	8.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23031702

Service Request: E2300305
Date Analyzed: 3/30/23

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\20230330\20230330-015

Calibration Date: 2/1/23
Calibration ID: EC2300002
Analysis Lot: 799391
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.7	0.1385	0.1483	7.0	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23031702

Service Request: E2300305
Date Analyzed: 3/30/23

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\20230330\20230330-026

Calibration Date: 2/1/23
Calibration ID: EC2300002
Analysis Lot: 799391
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.8	0.1385	0.1491	7.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS23031702

Service Request: E2300305
Date Analyzed: 3/30/23

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\20230330\20230330-032

Calibration Date: 2/1/23
Calibration ID: EC2300002
Analysis Lot: 799391
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1385	0.1460	5.4	NA	± 15 %	Average RF

Insight Report

Printed at 3/30/2023 1:54:27 PM

Method File: I:\LCMS01\DATA\20230330\20230330.lcm
Project File: I:\LCMS01\DATA\20230330\20230330.damlp

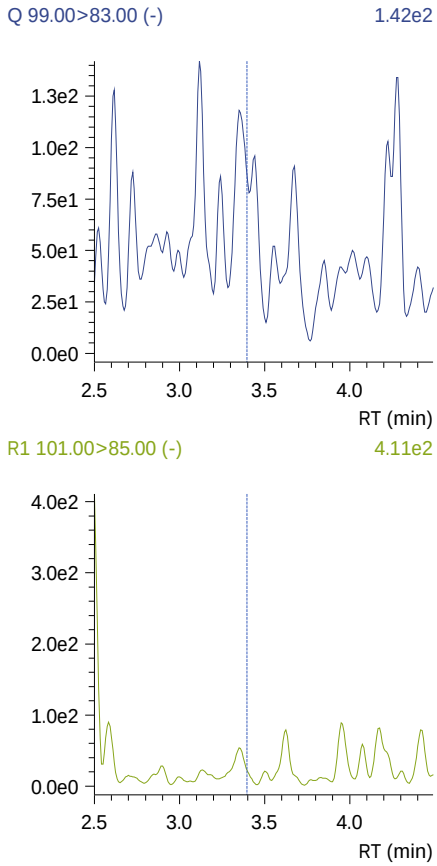
IB

Sample ID: IB
Date Acquired: 3/30/2023 9:18:05 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230330\20230330-001.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)	----	----	182221	----	ng/mL	101.00 >85.00	0.00	22.06 -40.97
Sodium Perchlorate-18O4_IS	Auto	3.363	182221	182221	1.0000	ng/mL	----	----	

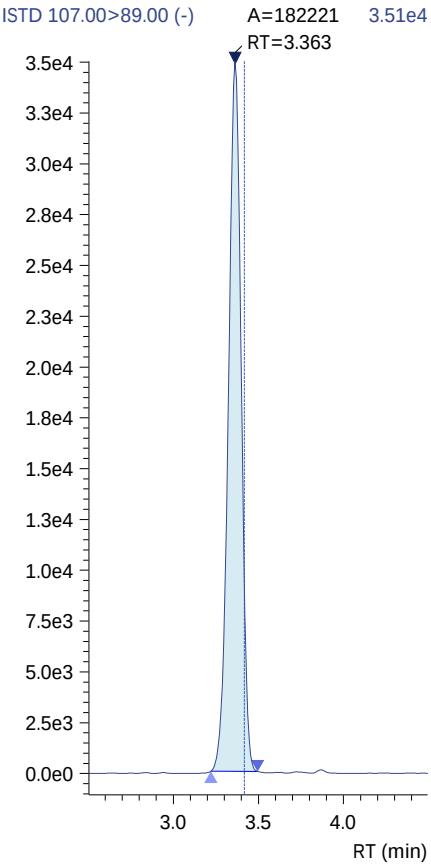
Perchlorate

Conc ----
R#1 0.00 (31.52)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/30/2023 1:54:27 PM

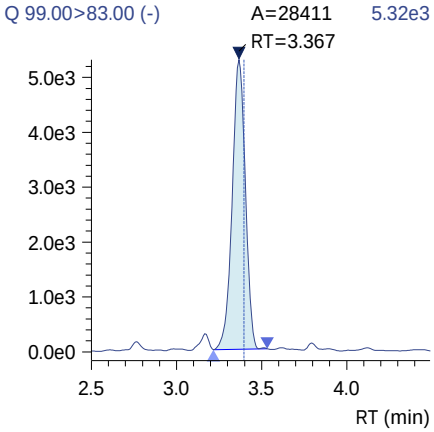
ICS

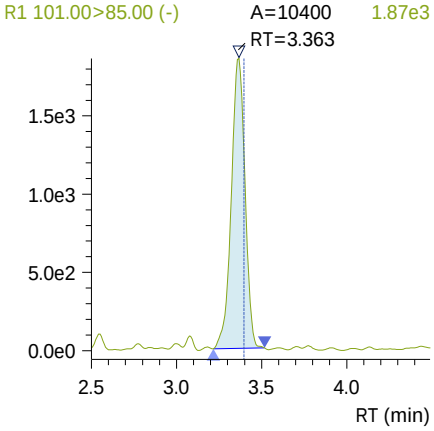
Sample ID: ICS
Date Acquired: 3/30/2023 9:38:25 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230330\20230330-002.lcd
Vial: 2 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.367	28411	202571	1.0124	ng/mL	101.00 >85.00	36.61	22.06 -40.97
Sodium Perchlorate-18O4_IS	Auto	3.365	2025 71	202571	1.0000	ng/mL	----	----	

Perchlorate

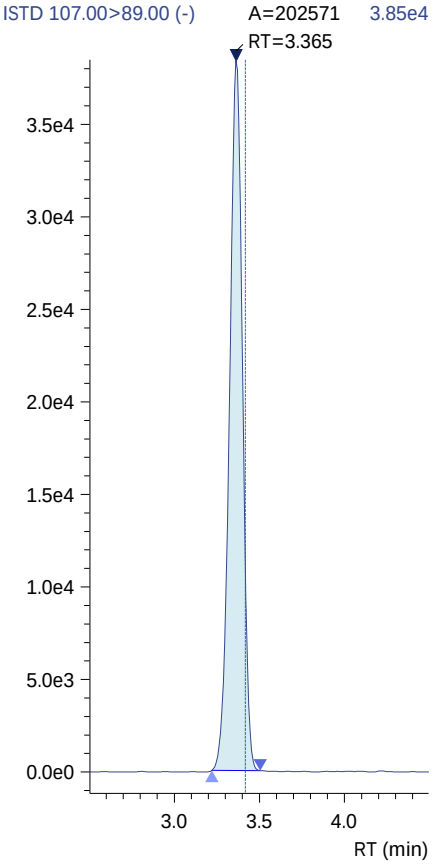
Conc 1.0124
R#1 36.61 (31.52)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/30/2023 1:54:27 PM

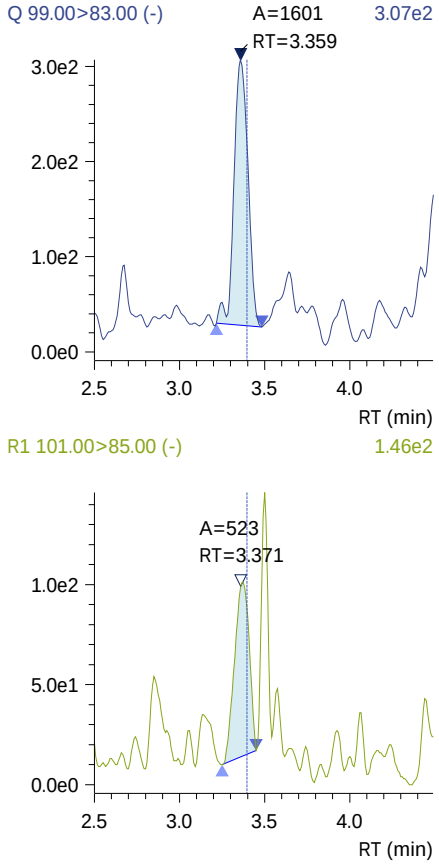
LODV

Sample ID: LODV
Date Acquired: 3/30/2023 9:49:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230330\20230330-003.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	3.359	1601	185704	0.0622	ng/mL	101.00 >85.00	32.65	22.06 -40.97
Sodium Perchlorate-18O4_IS	Auto	3.364	185704	185704	1.0000	ng/mL	----	----	

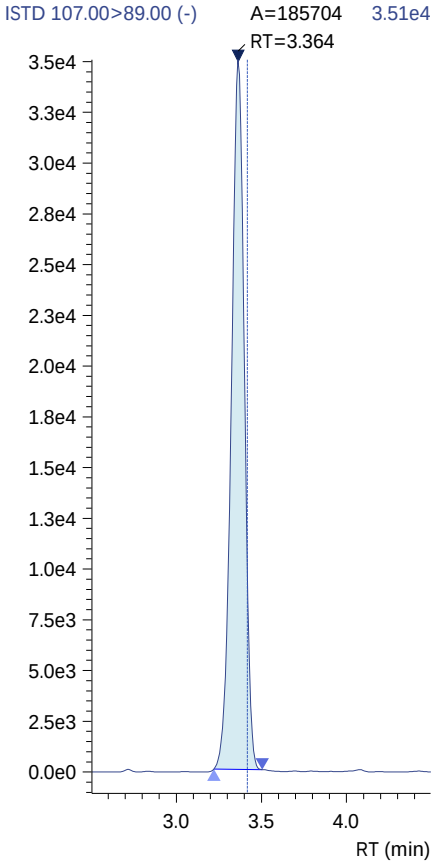
Perchlorate

Conc 0.0622
R#1 32.65 (31.52)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/30/2023 1:54:27 PM

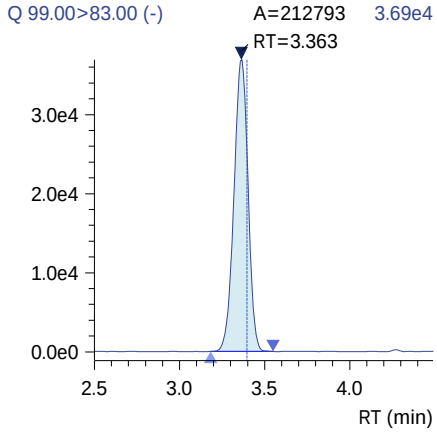
PERCHLORATE7

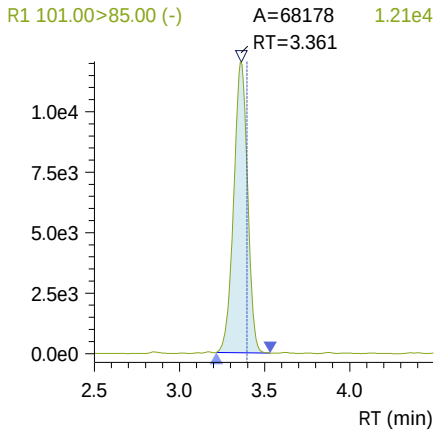
Sample ID: PERCHLORATE7
Date Acquired: 3/30/2023 9:56:07 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230330\20230330-004.lcd
Vial: 3 | Inj. Volume: 25.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.363	2127 93	141668	10.8 423	ng/mL	101.00 >85.00	32.04	22.06 -40.97
Sodium Perchlorate-18O4_IS	Auto	3.358	1416 68	141668	1.0000	ng/mL	----	----	

Perchlorate

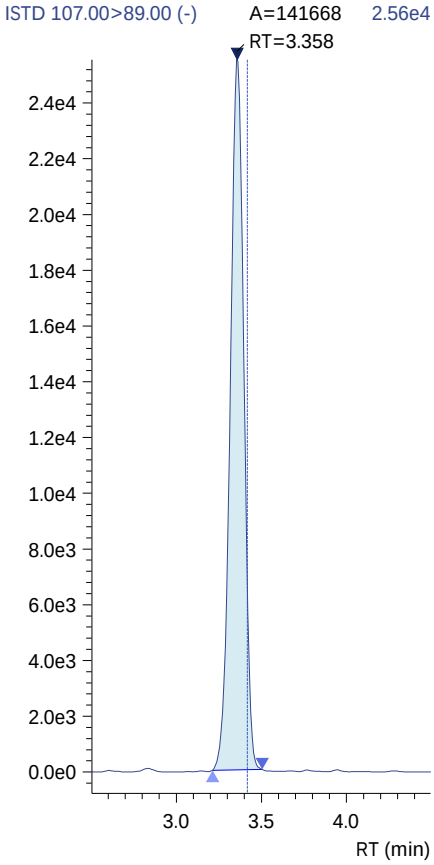
Conc 10.8423
R#1 32.04 (31.52)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/30/2023 1:54:27 PM

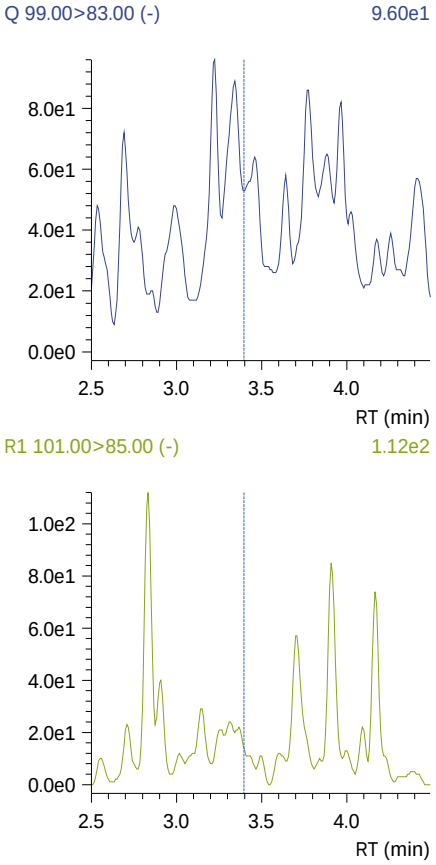
EQ2300162-01

Sample ID: EQ2300162-01
Date Acquired: 3/30/2023 10:01:50 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230330\20230330-005.lcd
Vial: 53 | 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	ND(W/B)	----	----	195754	----	ng/mL	101.00 >85.00	0.00	22.06 -40.97
Sodium Perchlorate-18O4_IS	Auto	3.360	195754	195754	1.0000	ng/mL	----	----	

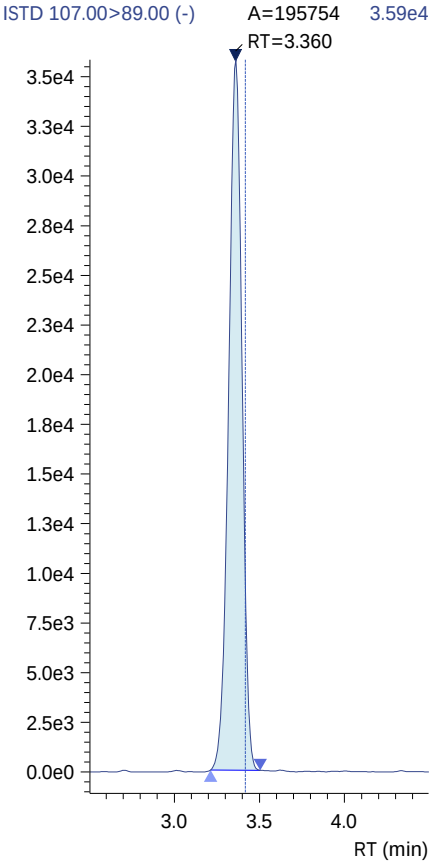
Perchlorate

Conc ----
R#1 0.00 (31.52)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/30/2023 1:54:27 PM

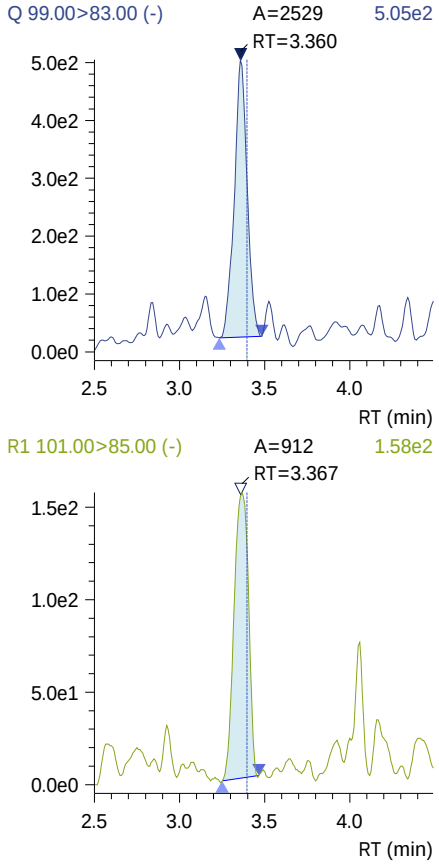
EQ2300162-02

Sample ID: EQ2300162-02
Date Acquired: 3/30/2023 10:07:32 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230330\20230330-006.lcd
Vial: 54 | 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	3.360	2529	192284	0.0949	ng/mL	101.00 >85.00	36.08	22.06 -40.97
Sodium Perchlorate-18O4_IS	Auto	3.359	192284	192284	1.0000	ng/mL	----	----	

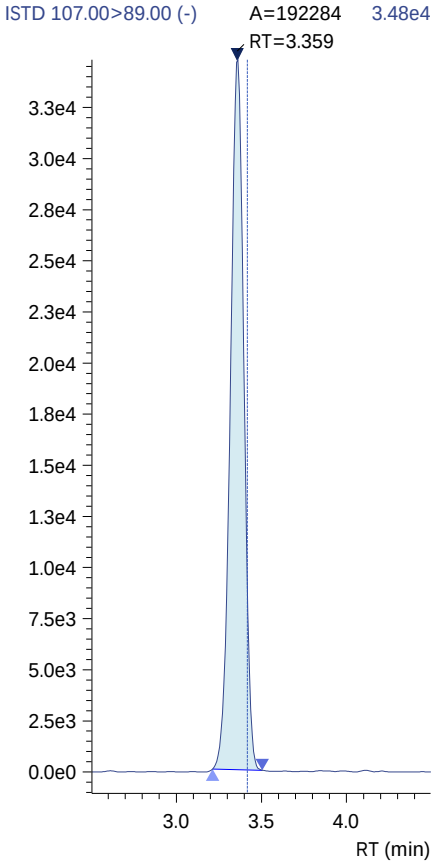
Perchlorate

Conc 0.0949
R#1 36.08 (31.52)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/30/2023 1:54:27 PM

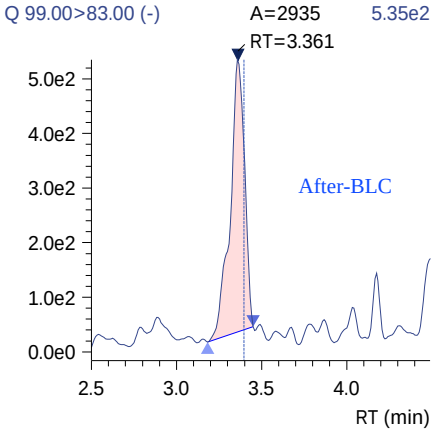
EQ2300162-03

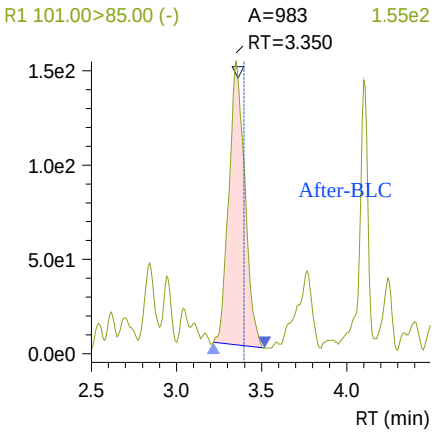
Sample ID: EQ2300162-03
Date Acquired: 3/30/2023 10:13:16 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230330\20230330-007.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 6

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.361	2935	194412	0.1090	ng/mL	101.00 >85.00	33.50	22.06 -40.97
Sodium Perchlorate-18O4 _IS	Auto	3.361	1944 12	194412	1.0000	ng/mL	----	----	

Perchlorate

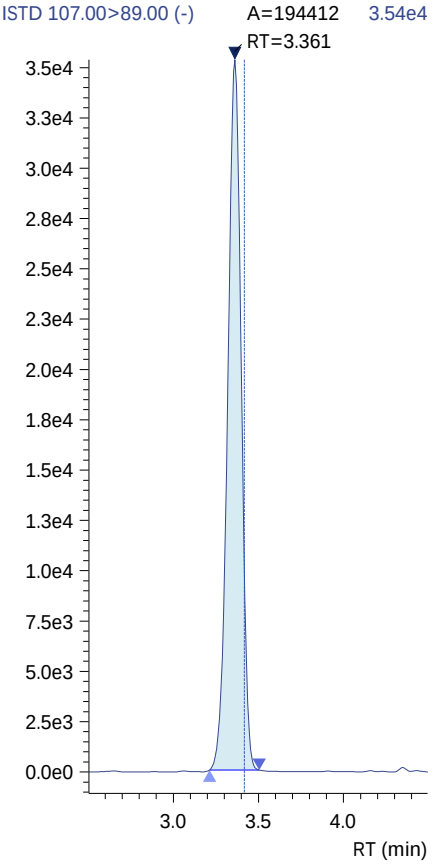
Conc 0.1090
R#1 33.50 (31.52)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

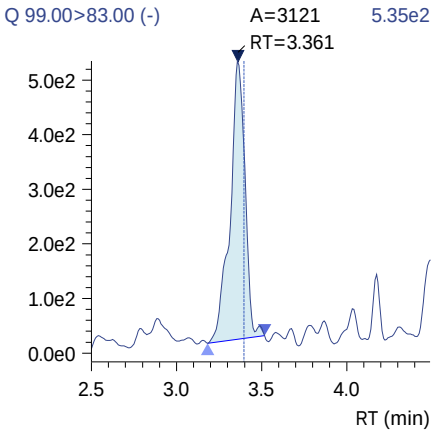
Method File: I:\LCMS01\DATA\20230330\20230330.lcm
Project File: I:\LCMS01\DATA\20230330\20230330.damlp

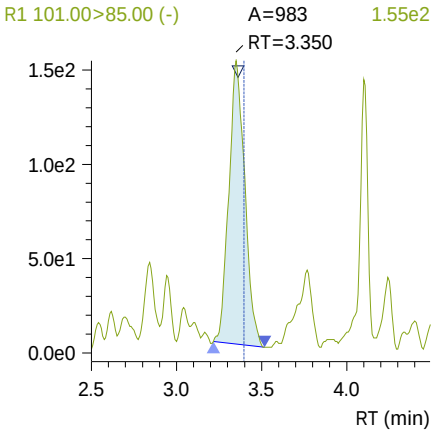
EQ2300162-03

Sample ID: EQ2300162-03
Date Acquired: 3/30/2023 10:13:16 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230330\20230330-007.lcd
Vial: 1 | Inj. Volume: 25.0000uL | Tray: 6

Perchlorate

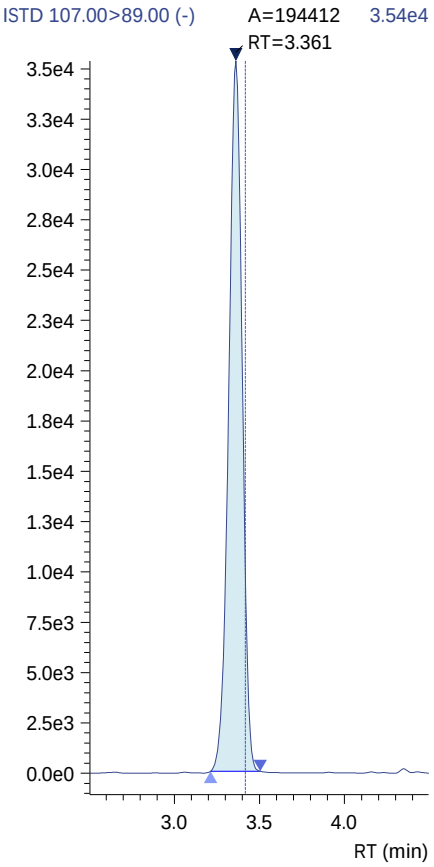
Conc 0.1147
R#1 31.51 (31.52)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/30/2023 1:54:27 PM

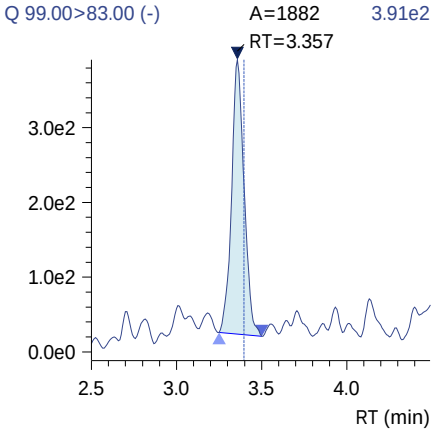
E2300305-001

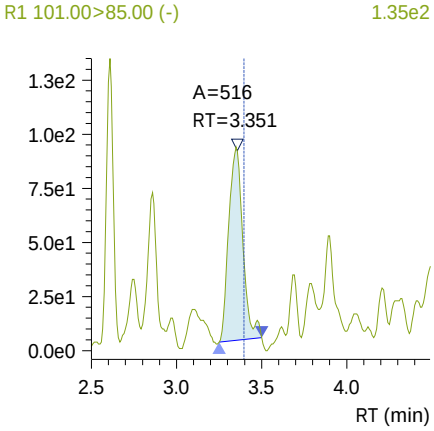
Sample ID: E2300305-001
Date Acquired: 3/30/2023 10:21:49 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230330\20230330-008.lcd
Vial: 26 | Inj. Volume: 25.0000uL | Tray: 5

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.357	1882	229058	0.0593	ng/mL	101.00 >85.00	27.42	22.06 -40.97
Sodium Perchlorate-18O4_IS	Auto	3.362	229058	229058	1.0000	ng/mL	----	----	

Perchlorate

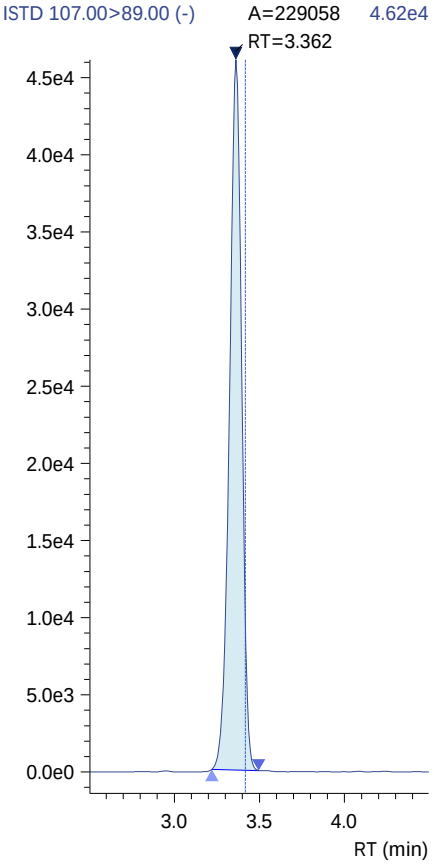
Conc 0.0593
R#1 27.42 (31.52)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/30/2023 1:54:27 PM

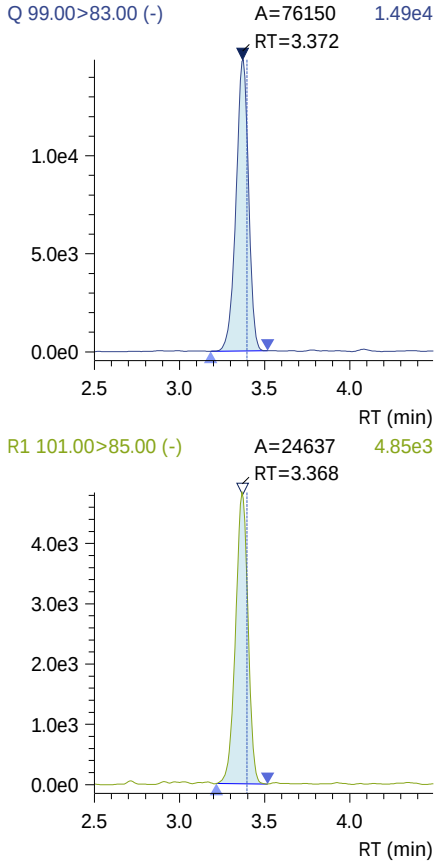
E2300305-002

Sample ID: E2300305-002
Date Acquired: 3/30/2023 10:27:30 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230330\20230330-009.lcd
Vial: 27 | 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	3.372	76150	233780	2.3513	ng/mL	101.00 >85.00	32.35	22.06 -40.97
Sodium Perchlorate-18O4_IS	Auto	3.367	233780	233780	1.0000	ng/mL	----	----	

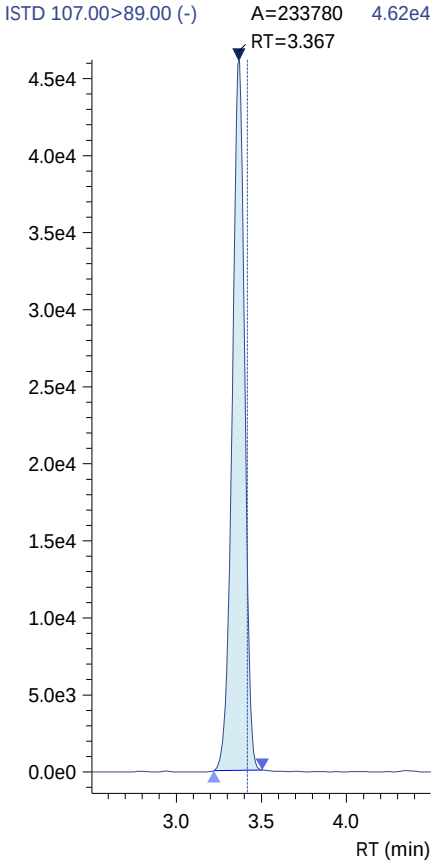
Perchlorate

Conc 2.3513
R#1 32.35 (31.52)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/30/2023 1:54:27 PM

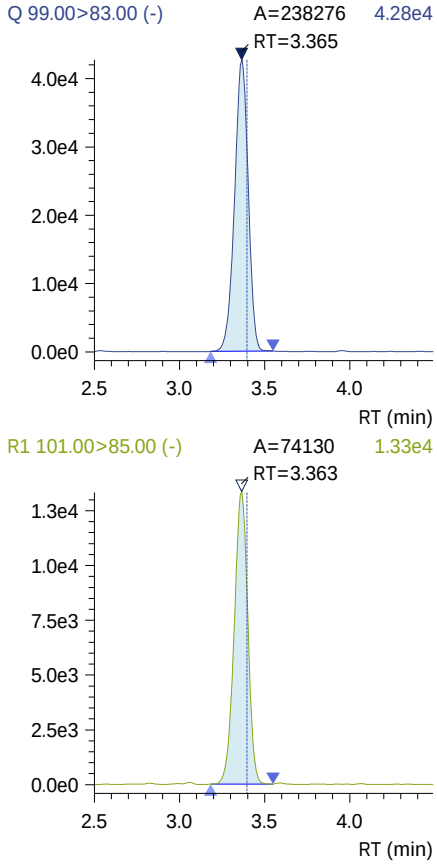
PERCHLORATE7

Sample ID: PERCHLORATE7
Date Acquired: 3/30/2023 11:01:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20230330\20230330-015.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	2382 76	160696	10.7 032	ng/mL	101.00 >85.00	31.11	22.06 -40.97
Sodium Perchlorate-18O4_IS	Auto	3.362	1606 96	160696	1.0000	ng/mL	----	----	

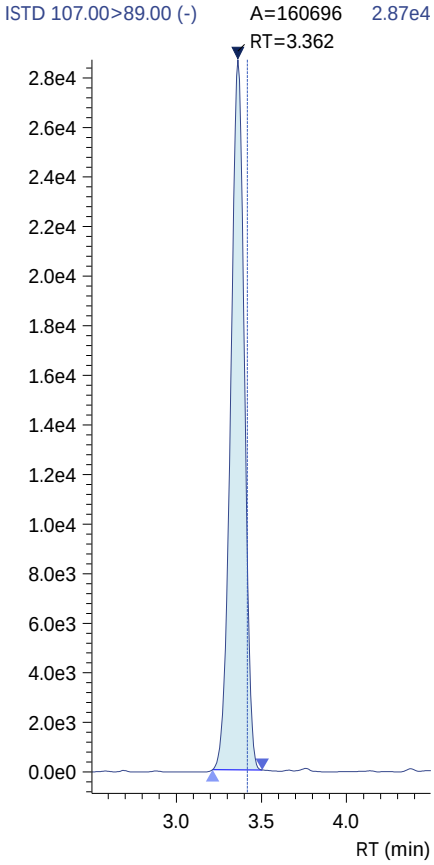
Perchlorate

Conc 10.7032
R#1 31.11 (31.52)



Sodium Perchlorate-18O4_IS

Conc 1.0000



HS23031739 Longhorn GW Treatment Plant BiWeekly Samples Cover Page

ALS WO# HS23031739

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ALS Group USA, Corp
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Houston, TX 77099
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alsglobal.com

WorkOrder: HS23031739

Longhorn GW Treatment Plant Bi-Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

11-Apr-2023

HS23031739 Longhorn GW Treatment Plant BiWeekly Samples Final

ALS WO# HS23031739

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

April 05, 2023

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

Work Order: **HS23031739**

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

Dear Marcia Olive,

ALS Environmental received 2 sample(s) on Mar 29, 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: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
Work Order: HS23031739

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23031739-01	LH18/24-SP650_032823	Water		28-Mar-2023 13:00	29-Mar-2023 10:00	☐
HS23031739-02	Trip Blank	Water	CG-121321-07	28-Mar-2023 13:00	29-Mar-2023 10:00	☐

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
Work Order: HS23031739

GCMS Volatiles by Method SW8260

Batch ID: R431748

Sample ID: CCV

- n_Butylbenzene exceeded %D recovery limits for CCV .Samples are ND for this compound.

Sample ID: CCV-END

- Acetone response failed %D limits for closing CCV.

Sample ID: VLCSW-230404

- 1,2_Dibromoethane and 1,3_Dichloropropane exceeded QC limits for LCS. Samples are ND for these compounds.

Sample ID: LH18/24-SP650_032823 (HS23031739-01MS)

- The recovery of the Matrix Spike (MS) and the Matrix Spike Duplicate (MSD) associated to these analytes were outside of the established control limits. However, the LCS was within control limits. The failed recovery of the MS/MSD may be due to sample matrix interference.
- The RPD between the MS and MSD was outside of the control limit.

WetChemistry by Method SW9056

Batch ID: R431560

Sample ID: LH18/24-SP650_032823 (HS23031739-01MS)

- The MS and/or MSD recovery was outside of the control limits; however, the result in the parent sample is greater than 4x the spike amount. (Chloride)

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Longhorn GW Treatment Plant Bi-Weekly Samples WorkOrder:HS23031739
Sample ID: LH18/24-SP650_032823 Lab ID:HS23031739-01
Collection Date: 28-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	04-Apr-2023 13:33
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:33
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	04-Apr-2023 13:33
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	04-Apr-2023 13:33
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:33
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	04-Apr-2023 13:33
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	04-Apr-2023 13:33
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	04-Apr-2023 13:33
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33

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

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Longhorn GW Treatment Plant Bi-Weekly Samples WorkOrder:HS23031739
Sample ID: LH18/24-SP650_032823 Lab ID:HS23031739-01
Collection Date: 28-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	04-Apr-2023 13:33
cis-1,2-Dichloroethene	**1.2**		**0.20**	**1.0**	**1.0**	**ug/L**	1	04-Apr-2023 13:33
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	04-Apr-2023 13:33
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	04-Apr-2023 13:33
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:33
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:33
Surr: 1,2-Dichloroethane-d4	*90.0*			**0**	*81-118*	*%REC*	*1*	*04-Apr-2023 13:33*
Surr: 4-Bromofluorobenzene	*100.0*			**0**	*85-114*	*%REC*	*1*	*04-Apr-2023 13:33*
Surr: Dibromofluoromethane	*91.7*			**0**	*80-119*	*%REC*	*1*	*04-Apr-2023 13:33*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*1*	*04-Apr-2023 13:33*
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**871**		**4.00**	**5.00**	**10.0**	**mg/L**	20	31-Mar-2023 20:58
Sulfate	**33.1**		**0.200**	**0.250**	**0.500**	**mg/L**	1	31-Mar-2023 20:41

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

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder:HS23031739
Sample ID: Trip Blank
Lab ID:HS23031739-02
Collection Date: 28-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	04-Apr-2023 13:12
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:12
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	04-Apr-2023 13:12
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	04-Apr-2023 13:12
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:12
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	04-Apr-2023 13:12
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	04-Apr-2023 13:12
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	04-Apr-2023 13:12
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12

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

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Longhorn GW Treatment Plant Bi-Weekly Samples WorkOrder:HS23031739
Sample ID: Trip Blank Lab ID:HS23031739-02
Collection Date: 28-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	04-Apr-2023 13:12
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	04-Apr-2023 13:12
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	04-Apr-2023 13:12
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	04-Apr-2023 13:12
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Trichlorofluoromethane	**1.9**		**0.30**	**1.0**	**1.0**	**ug/L**	1	04-Apr-2023 13:12
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	04-Apr-2023 13:12
Surr: 1,2-Dichloroethane-d4	*90.6*			**0**	*81-118*	*%REC*	*1*	*04-Apr-2023 13:12*
Surr: 4-Bromofluorobenzene	*99.7*			**0**	*85-114*	*%REC*	*1*	*04-Apr-2023 13:12*
Surr: Dibromofluoromethane	*90.7*			**0**	*80-119*	*%REC*	*1*	*04-Apr-2023 13:12*
Surr: Toluene-d8	*106*			**0**	*89-112*	*%REC*	*1*	*04-Apr-2023 13:12*

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

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23031739

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R431560 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS23031739-01	LH18/24-SP650_032823	28 Mar 2023 13:00			31 Mar 2023 20:58	20
HS23031739-01	LH18/24-SP650_032823	28 Mar 2023 13:00			31 Mar 2023 20:41	1
Batch ID: R431748 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS23031739-01	LH18/24-SP650_032823	28 Mar 2023 13:00			04 Apr 2023 13:33	1
HS23031739-02	Trip Blank	28 Mar 2023 13:00			04 Apr 2023 13:12	1

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23031739

QC BATCH REPORT

Batch ID: R431748 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230404** Units: **ug/L** Analysis Date: **04-Apr-2023 12:51**
Client ID: Run ID: **VOA6_431748** SeqNo: **7214347** 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: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23031739

QC BATCH REPORT

Batch ID: R431748 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-230404** Units: **ug/L** Analysis Date: **04-Apr-2023 12:51**
Client ID: Run ID: **VOA6_431748** SeqNo: **7214347** 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	*45.53*	*1.0*	*50*	*0*	*91.1*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*49.69*	*1.0*	*50*	*0*	*99.4*	*85 - 114*				
Surr: Dibromofluoromethane	*45.93*	*1.0*	*50*	*0*	*91.9*	*80 - 119*				
Surr: Toluene-d8	*53.27*	*1.0*	*50*	*0*	*107*	*89 - 112*				

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23031739

QC BATCH REPORT

Batch ID: R431748 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230404** Units: **ug/L** Analysis Date: **04-Apr-2023 12:09**
Client ID: Run ID: **VOA6_431748** SeqNo: **7214346** 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	22.28	1.0	20	0	111	78 - 124				
1,1,1-Trichloroethane	23	1.0	20	0	115	74 - 131				
1,1,2,2-Tetrachloroethane	23.89	1.0	20	0	119	71 - 121				
1,1,2-Trichloroethane	23.22	1.0	20	0	116	80 - 119				
1,1-Dichloroethane	21.45	1.0	20	0	107	77 - 125				
1,1-Dichloroethene	17.54	1.0	20	0	87.7	71 - 131				
1,1-Dichloropropene	22.56	1.0	20	0	113	78 - 125				
1,2,3-Trichlorobenzene	18.68	1.0	20	0	93.4	69 - 129				
1,2,3-Trichloropropane	24.21	1.0	20	0	121	73 - 122				
1,2,4-Trichlorobenzene	21.24	1.0	20	0	106	69 - 130				
1,2,4-Trimethylbenzene	21.97	1.0	20	0	110	76 - 124				
1,2-Dibromo-3-chloropropane	24.68	1.0	20	0	123	62 - 128				
1,2-Dibromoethane	24.32	1.0	20	0	122	77 - 121				S
1,2-Dichlorobenzene	22.52	1.0	20	0	113	80 - 119				
1,2-Dichloroethane	24.79	1.0	20	0	124	73 - 128				
1,2-Dichloropropane	21.93	1.0	20	0	110	78 - 122				
1,3,5-Trimethylbenzene	21.69	1.0	20	0	108	75 - 124				
1,3-Dichlorobenzene	22.24	1.0	20	0	111	80 - 119				
1,3-Dichloropropane	23.86	1.0	20	0	119	80 - 119				S
1,4-Dichlorobenzene	21.36	1.0	20	0	107	79 - 118				
2,2-Dichloropropane	24.21	1.0	20	0	121	60 - 139				
2-Butanone	43.91	2.0	40	0	110	56 - 143				
2-Chlorotoluene	22.44	1.0	20	0	112	79 - 122				
2-Hexanone	50.31	2.0	40	0	126	57 - 139				
4-Chlorotoluene	22.98	1.0	20	0	115	78 - 122				
4-Isopropyltoluene	22.81	1.0	20	0	114	77 - 127				
4-Methyl-2-pentanone	49.89	2.0	40	0	125	67 - 130				
Acetone	41.09	2.0	40	0	103	39 - 160				
Benzene	21.7	1.0	20	0	108	79 - 120				
Bromobenzene	22.56	1.0	20	0	113	80 - 120				
Bromochloromethane	20.44	1.0	20	0	102	78 - 123				
Bromodichloromethane	22.64	1.0	20	0	113	79 - 125				
Bromoform	24.9	1.0	20	0	125	66 - 130				
Bromomethane	20.68	1.0	20	0	103	53 - 141				

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23031739

QC BATCH REPORT

Batch ID: R431748 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-230404** Units: **ug/L** Analysis Date: **04-Apr-2023 12:09**
Client ID: Run ID: **VOA6_431748** SeqNo: **7214346** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	36.6	2.0	40	0	91.5	64 - 133				
Carbon tetrachloride	22.59	1.0	20	0	113	72 - 136				
Chlorobenzene	22.24	1.0	20	0	111	82 - 118				
Chloroethane	14.51	1.0	20	0	72.6	60 - 138				
Chloroform	21.32	1.0	20	0	107	79 - 124				
Chloromethane	17.97	1.0	20	0	89.8	50 - 139				
cis-1,2-Dichloroethene	21.72	1.0	20	0	109	78 - 123				
cis-1,3-Dichloropropene	22.19	1.0	20	0	111	75 - 124				
Dibromochloromethane	23.07	1.0	20	0	115	74 - 126				
Dibromomethane	23.13	1.0	20	0	116	79 - 123				
Dichlorodifluoromethane	20.77	1.0	20	0	104	32 - 152				
Ethylbenzene	21.84	1.0	20	0	109	79 - 121				
Hexachlorobutadiene	24.06	1.0	20	0	120	66 - 134				
Isopropylbenzene	22.53	1.0	20	0	113	72 - 131				
m,p-Xylene	44.78	2.0	40	0	112	80 - 121				
Methylene chloride	21.45	2.0	20	0	107	74 - 124				
Naphthalene	21.78	1.0	20	0	109	61 - 128				
n-Butylbenzene	23.86	1.0	20	0	119	75 - 128				
n-Propylbenzene	22.41	1.0	20	0	112	76 - 126				
o-Xylene	22.34	1.0	20	0	112	78 - 122				
sec-Butylbenzene	22.05	1.0	20	0	110	77 - 126				
Styrene	23.15	1.0	20	0	116	78 - 123				
tert-Butylbenzene	22.41	1.0	20	0	112	78 - 124				
Tetrachloroethene	23.34	1.0	20	0	117	74 - 129				
Toluene	23.33	1.0	20	0	117	80 - 121				
trans-1,2-Dichloroethene	21.53	1.0	20	0	108	75 - 124				
trans-1,3-Dichloropropene	23.31	1.0	20	0	117	73 - 127				
Trichloroethene	22.38	1.0	20	0	112	79 - 123				
Trichlorofluoromethane	16.62	1.0	20	0	83.1	65 - 141				
Vinyl chloride	16.21	1.0	20	0	81.0	58 - 137				
Surr: 1,2-Dichloroethane-d4	*50.22*	*1.0*	*50*	*0*	*100*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.69*	*1.0*	*50*	*0*	*103*	*85 - 114*				
Surr: Dibromofluoromethane	*50.67*	*1.0*	*50*	*0*	*101*	*80 - 119*				
Surr: Toluene-d8	*50.17*	*1.0*	*50*	*0*	*100*	*89 - 112*				

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23031739

QC BATCH REPORT

Batch ID: R431748 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23031739-01MS** Units: **ug/L** Analysis Date: **04-Apr-2023 14:57**
Client ID: **LH18/24-SP650_032823** Run ID: **VOA6_431748** SeqNo: **7214353** 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	17.83	1.0	20	0	89.1	78 - 124				
1,1,1-Trichloroethane	17.56	1.0	20	0	87.8	74 - 131				
1,1,2,2-Tetrachloroethane	18.17	1.0	20	0	90.8	71 - 121				
1,1,2-Trichloroethane	17.34	1.0	20	0	86.7	80 - 119				
1,1-Dichloroethane	14.52	1.0	20	0	72.6	77 - 125				S
1,1-Dichloroethene	11.11	1.0	20	0	55.6	71 - 131				S
1,1-Dichloropropene	19.02	1.0	20	0	95.1	78 - 125				
1,2,3-Trichlorobenzene	18.61	1.0	20	0	93.0	69 - 129				
1,2,3-Trichloropropane	18.62	1.0	20	0	93.1	73 - 122				
1,2,4-Trichlorobenzene	18.62	1.0	20	0	93.1	69 - 130				
1,2,4-Trimethylbenzene	20.05	1.0	20	0	100	76 - 124				
1,2-Dibromo-3-chloropropane	18.23	1.0	20	0	91.2	62 - 128				
1,2-Dibromoethane	18.24	1.0	20	0	91.2	77 - 121				
1,2-Dichlorobenzene	19.05	1.0	20	0	95.3	80 - 119				
1,2-Dichloroethane	16.98	1.0	20	0	84.9	73 - 128				
1,2-Dichloropropane	15.67	1.0	20	0	78.4	78 - 122				
1,3,5-Trimethylbenzene	20.22	1.0	20	0	101	75 - 124				
1,3-Dichlorobenzene	19.22	1.0	20	0	96.1	80 - 119				
1,3-Dichloropropane	17.47	1.0	20	0	87.4	80 - 119				
1,4-Dichlorobenzene	18.7	1.0	20	0	93.5	79 - 118				
2,2-Dichloropropane	17.82	1.0	20	0	89.1	60 - 139				
2-Butanone	24.12	2.0	40	0	60.3	56 - 143				
2-Chlorotoluene	19.83	1.0	20	0	99.1	79 - 122				
2-Hexanone	36.38	2.0	40	0	90.9	57 - 139				
4-Chlorotoluene	20.31	1.0	20	0	102	78 - 122				
4-Isopropyltoluene	21.66	1.0	20	0	108	77 - 127				
4-Methyl-2-pentanone	36.9	2.0	40	0	92.2	67 - 130				
Acetone	9.717	2.0	40	0	24.3	39 - 160				S
Benzene	16.18	1.0	20	0	80.9	79 - 120				
Bromobenzene	18.8	1.0	20	0	94.0	80 - 120				
Bromochloromethane	13.23	1.0	20	0	66.2	78 - 123				S
Bromodichloromethane	16.44	1.0	20	0	82.2	79 - 125				
Bromoform	17.81	1.0	20	0	89.0	66 - 130				
Bromomethane	10.75	1.0	20	0	53.8	53 - 141				

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23031739

QC BATCH REPORT

Batch ID: R431748 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS23031739-01MS** Units: **ug/L** Analysis Date: **04-Apr-2023 14:57**
Client ID: **LH18/24-SP650_032823** Run ID: **VOA6_431748** SeqNo: **7214353** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	21.94	2.0	40	0	54.8	64 - 133				S
Carbon tetrachloride	20.28	1.0	20	0	101	72 - 136				
Chlorobenzene	18.02	1.0	20	0	90.1	82 - 118				
Chloroethane	26.75	1.0	20	0	134	60 - 138				
Chloroform	14.61	1.0	20	0	73.1	79 - 124				S
Chloromethane	13.97	1.0	20	0	69.9	50 - 139				
cis-1,2-Dichloroethene	16.05	1.0	20	1.226	74.1	78 - 123				S
cis-1,3-Dichloropropene	15.57	1.0	20	0	77.9	75 - 124				
Dibromochloromethane	17.21	1.0	20	0	86.1	74 - 126				
Dibromomethane	16.26	1.0	20	0	81.3	79 - 123				
Dichlorodifluoromethane	11.18	1.0	20	0	55.9	32 - 152				
Ethylbenzene	18.83	1.0	20	0	94.1	79 - 121				
Hexachlorobutadiene	23.97	1.0	20	0	120	66 - 134				
Isopropylbenzene	20.4	1.0	20	0	102	72 - 131				
m,p-Xylene	37.85	2.0	40	0	94.6	80 - 121				
Methylene chloride	11.89	2.0	20	0	59.5	74 - 124				S
Naphthalene	18.45	1.0	20	0	92.3	61 - 128				
n-Butylbenzene	22.76	1.0	20	0	114	75 - 128				
n-Propylbenzene	21.13	1.0	20	0	106	76 - 126				
o-Xylene	18.6	1.0	20	0	93.0	78 - 122				
sec-Butylbenzene	21.99	1.0	20	0	110	77 - 126				
Styrene	18.51	1.0	20	0	92.6	78 - 123				
tert-Butylbenzene	21.76	1.0	20	0	109	78 - 124				
Tetrachloroethene	22.65	1.0	20	0	113	74 - 129				
Toluene	18.99	1.0	20	0	95.0	80 - 121				
trans-1,2-Dichloroethene	15.09	1.0	20	0	75.4	75 - 124				
trans-1,3-Dichloropropene	16.24	1.0	20	0	81.2	73 - 127				
Trichloroethene	19.73	1.0	20	0	98.7	79 - 123				
Trichlorofluoromethane	14.48	1.0	20	0	72.4	65 - 141				
Vinyl chloride	12.16	1.0	20	0	60.8	58 - 137				
Surr: 1,2-Dichloroethane-d4	*44.19*	*1.0*	*50*	*0*	*88.4*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*51.15*	*1.0*	*50*	*0*	*102*	*85 - 114*				
Surr: Dibromofluoromethane	*44.58*	*1.0*	*50*	*0*	*89.2*	*80 - 119*				
Surr: Toluene-d8	*53.52*	*1.0*	*50*	*0*	*107*	*89 - 112*				

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23031739

QC BATCH REPORT

Batch ID: R431748 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23031739-01MSD** Units: **ug/L** Analysis Date: **04-Apr-2023 15:18**
Client ID: **LH18/24-SP650_032823** Run ID: **VOA6_431748** SeqNo: **7214354** 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	19.97	1.0	20	0	99.9	78 - 124	17.83	11.3	20	
1,1,1-Trichloroethane	19.15	1.0	20	0	95.7	74 - 131	17.56	8.65	20	
1,1,2,2-Tetrachloroethane	17.84	1.0	20	0	89.2	71 - 121	18.17	1.83	20	
1,1,2-Trichloroethane	18.26	1.0	20	0	91.3	80 - 119	17.34	5.13	20	
1,1-Dichloroethane	16.79	1.0	20	0	84.0	77 - 125	14.52	14.5	20	
1,1-Dichloroethene	15.7	1.0	20	0	78.5	71 - 131	11.11	34.2	20	R
1,1-Dichloropropene	20.63	1.0	20	0	103	78 - 125	19.02	8.13	20	
1,2,3-Trichlorobenzene	19.77	1.0	20	0	98.9	69 - 129	18.61	6.08	20	
1,2,3-Trichloropropane	17	1.0	20	0	85.0	73 - 122	18.62	9.06	20	
1,2,4-Trichlorobenzene	20.37	1.0	20	0	102	69 - 130	18.62	8.98	20	
1,2,4-Trimethylbenzene	21.34	1.0	20	0	107	76 - 124	20.05	6.25	20	
1,2-Dibromo-3-chloropropane	17	1.0	20	0	85.0	62 - 128	18.23	6.98	20	
1,2-Dibromoethane	19.11	1.0	20	0	95.6	77 - 121	18.24	4.67	20	
1,2-Dichlorobenzene	20.51	1.0	20	0	103	80 - 119	19.05	7.37	20	
1,2-Dichloroethane	19.44	1.0	20	0	97.2	73 - 128	16.98	13.5	20	
1,2-Dichloropropane	17.72	1.0	20	0	88.6	78 - 122	15.67	12.3	20	
1,3,5-Trimethylbenzene	21.54	1.0	20	0	108	75 - 124	20.22	6.3	20	
1,3-Dichlorobenzene	20.66	1.0	20	0	103	80 - 119	19.22	7.19	20	
1,3-Dichloropropane	19.13	1.0	20	0	95.7	80 - 119	17.47	9.08	20	
1,4-Dichlorobenzene	20.01	1.0	20	0	100	79 - 118	18.7	6.79	20	
2,2-Dichloropropane	18.99	1.0	20	0	94.9	60 - 139	17.82	6.35	20	
2-Butanone	24.98	2.0	40	0	62.4	56 - 143	24.12	3.5	20	
2-Chlorotoluene	21.23	1.0	20	0	106	79 - 122	19.83	6.85	20	
2-Hexanone	34.54	2.0	40	0	86.3	57 - 139	36.38	5.19	20	
4-Chlorotoluene	21.69	1.0	20	0	108	78 - 122	20.31	6.57	20	
4-Isopropyltoluene	22.91	1.0	20	0	115	77 - 127	21.66	5.63	20	
4-Methyl-2-pentanone	36.69	2.0	40	0	91.7	67 - 130	36.9	0.577	20	
Acetone	16.6	2.0	40	0	41.5	39 - 160	9.717	52.3	20	R
Benzene	18.33	1.0	20	0	91.6	79 - 120	16.18	12.4	20	
Bromobenzene	20.11	1.0	20	0	101	80 - 120	18.8	6.75	20	
Bromochloromethane	15.6	1.0	20	0	78.0	78 - 123	13.23	16.4	20	S
Bromodichloromethane	18.74	1.0	20	0	93.7	79 - 125	16.44	13	20	
Bromoform	18.91	1.0	20	0	94.6	66 - 130	17.81	6.02	20	
Bromomethane	10.21	1.0	20	0	51.0	53 - 141	10.75	5.21	20	S

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23031739

QC BATCH REPORT

Batch ID: R431748 (0) **Instrument:** VOA6 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS23031739-01MSD** Units: **ug/L** Analysis Date: **04-Apr-2023 15:18**
Client ID: **LH18/24-SP650_032823** Run ID: **VOA6_431748** SeqNo: **7214354** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	31.09	2.0	40	0	77.7	64 - 133	21.94	34.5	20	R
Carbon tetrachloride	21.8	1.0	20	0	109	72 - 136	20.28	7.23	20	
Chlorobenzene	20.08	1.0	20	0	100	82 - 118	18.02	10.8	20	
Chloroethane	18.03	1.0	20	0	90.1	60 - 138	26.75	39	20	R
Chloroform	16.83	1.0	20	0	84.1	79 - 124	14.61	14.1	20	
Chloromethane	13.45	1.0	20	0	67.3	50 - 139	13.97	3.77	20	
cis-1,2-Dichloroethene	18.46	1.0	20	1.226	86.2	78 - 123	16.05	14	20	
cis-1,3-Dichloropropene	18.15	1.0	20	0	90.8	75 - 124	15.57	15.3	20	
Dibromochloromethane	19.51	1.0	20	0	97.6	74 - 126	17.21	12.5	20	
Dibromomethane	18.1	1.0	20	0	90.5	79 - 123	16.26	10.8	20	
Dichlorodifluoromethane	9.487	1.0	20	0	47.4	32 - 152	11.18	16.4	20	
Ethylbenzene	20.79	1.0	20	0	104	79 - 121	18.83	9.92	20	
Hexachlorobutadiene	25.74	1.0	20	0	129	66 - 134	23.97	7.12	20	
Isopropylbenzene	22	1.0	20	0	110	72 - 131	20.4	7.53	20	
m,p-Xylene	41.91	2.0	40	0	105	80 - 121	37.85	10.2	20	
Methylene chloride	15.31	2.0	20	0	76.6	74 - 124	11.89	25.2	20	R
Naphthalene	18.65	1.0	20	0	93.2	61 - 128	18.45	1.06	20	
n-Butylbenzene	24.43	1.0	20	0	122	75 - 128	22.76	7.06	20	
n-Propylbenzene	22.23	1.0	20	0	111	76 - 126	21.13	5.06	20	
o-Xylene	20.33	1.0	20	0	102	78 - 122	18.6	8.87	20	
sec-Butylbenzene	22.69	1.0	20	0	113	77 - 126	21.99	3.16	20	
Styrene	20.77	1.0	20	0	104	78 - 123	18.51	11.5	20	
tert-Butylbenzene	22.46	1.0	20	0	112	78 - 124	21.76	3.2	20	
Tetrachloroethene	23.67	1.0	20	0	118	74 - 129	22.65	4.41	20	
Toluene	20.69	1.0	20	0	103	80 - 121	18.99	8.57	20	
trans-1,2-Dichloroethene	16.86	1.0	20	0	84.3	75 - 124	15.09	11.1	20	
trans-1,3-Dichloropropene	18.39	1.0	20	0	91.9	73 - 127	16.24	12.4	20	
Trichloroethene	20.49	1.0	20	0	102	79 - 123	19.73	3.77	20	
Trichlorofluoromethane	13.52	1.0	20	0	67.6	65 - 141	14.48	6.9	20	
Vinyl chloride	11.34	1.0	20	0	56.7	58 - 137	12.16	6.92	20	S
Surr: 1,2-Dichloroethane-d4	*42.08*	*1.0*	*50*	*0*	*84.2*	*81 - 118*	*44.19*	*4.9*	*20*	
Surr: 4-Bromofluorobenzene	*52.22*	*1.0*	*50*	*0*	*104*	*85 - 114*	*51.15*	*2.08*	*20*	
Surr: Dibromofluoromethane	*44.46*	*1.0*	*50*	*0*	*88.9*	*80 - 119*	*44.58*	*0.272*	*20*	
Surr: Toluene-d8	*52.13*	*1.0*	*50*	*0*	*104*	*89 - 112*	*53.52*	*2.64*	*20*	

ALS Houston, US Date: 05-Apr-23

Client:	Bhate Environmental Associates, Inc.
Project:	Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder:	HS23031739

QC BATCH REPORT

Batch ID:	**R431748 (0)**	**Instrument:**	**VOA6**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch: HS23031739-01 HS23031739-02

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: HS23031739

QC BATCH REPORT

Batch ID: R431560 (0) **Instrument:** ICS-Integrion **Method:** ANIONS BY SW9056A

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **31-Mar-2023 20:06**
Client ID: Run ID: **ICS-Integrion_431560** SeqNo: **7209251** 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: **31-Mar-2023 20:12**
Client ID: Run ID: **ICS-Integrion_431560** SeqNo: **7209252** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.16	0.500	20	0	101	80 - 120				
Sulfate	19.74	0.500	20	0	98.7	80 - 120				

MS Sample ID: **HS23031739-01MS** Units: **mg/L** Analysis Date: **31-Mar-2023 20:46**
Client ID: **LH18/24-SP650_032823** Run ID: **ICS-Integrion_431560** SeqNo: **7209256** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	768.9	0.500	10	789.4	-205	80 - 120				SEO
Sulfate	42.59	0.500	10	33.05	95.4	80 - 120				

MSD Sample ID: **HS23031739-01MSD** Units: **mg/L** Analysis Date: **31-Mar-2023 20:52**
Client ID: **LH18/24-SP650_032823** Run ID: **ICS-Integrion_431560** SeqNo: **7209257** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	769.6	0.500	10	789.4	-197	80 - 120	768.9	0.0985	20	SEO
Sulfate	42.86	0.500	10	33.05	98.1	80 - 120	42.59	0.618	20	

The following samples were analyzed in this batch: HS23031739-01

ALS Houston, US Date: 05-Apr-23

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Bi-Weekly Samples
WorkOrder: **HS23031739**

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
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: 05-Apr-23

Sample Receipt Checklist

Work Order ID: HS23031739 **Date/Time Received:** **29-Mar-2023 10:00**

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

Completed By: /S/ Corey Grandits (eSignature) 29-Mar-2023 18:59 (Date/Time) **Reviewed by:** /S/ Dane J. Wacasey (eSignature) 05-Apr-2023 11:05 (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):	49146	
Date/Time sample(s) sent to storage:	3/29/23	

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

HS23031739
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_032823	Water	03/28/23 / 13:00		3	3		HCL	
LH18/24-SP650_032823	Water	03/28/23 / 13:00		1		1	NONE	
Trip Blank	Water	03/28/23		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	03/28/23	13:30		3-29-23	1000						

9For Lab Use Only

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

Remarks

(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

U91146

CUSTODY SEAL

Date: 2/24/23 Time: 1330
Name: Scott Beesinger
Company: APTIM

Seal Broken By: SM
Date: 03/24/23

U91146 MAR 2 9 2023

U91146

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINGER
APTIM ENVIRONMENTAL & INFASTRUCTURE
1209-B EAST GRAND AVE
PMB 202
MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 02DEC22
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3B16
DIMS: 19x16x13 IN

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: LHAAP 12 - BO 89532 - DW

RMA:

FedEx Express

IAH 5789 2001 7507

PRIORITY OVERNIGHT

AB SGRA

77099
TX-US
IAH

HS23031739-MSVOA-SW8260

ALS WO# HS23031739

01186102

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA 8260

Workorder

HS23031739

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

04/10/2023

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 **HS23031739**

Volatiles by EPA 8260

HS23031739-01	Collected	Received	Matrix	Basis
LH18/24-SP650_032823	03/28/23 13:00	03/29/23 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	04/04/23 13:33	VOA6_431748_R43174	X040409
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23031739

Volatiles by EPA 8260

HS23031739-01	Collected	Received	Matrix	Basis
LH18/24-SP650_032823	03/28/23 13:00	03/29/23 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	04/04/23 13:33	VOA6_431748_R43174	X040409
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
cis-1,2-Dichloroethene	ug/L	1.2		0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:33	VOA6_431748_R43174	X040409

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder **HS23031739**

Volatiles by EPA 8260

HS23031739-02	Collected	Received	Matrix	Basis
Trip Blank	03/28/23 13:00	03/29/23 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	04/04/23 13:12	VOA6_431748_R43174	X040408
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder **HS23031739**

Volatiles by EPA 8260

HS23031739-02	Collected	Received	Matrix	Basis
Trip Blank	03/28/23 13:00	03/29/23 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	04/04/23 13:12	VOA6_431748_R43174	X040408
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Trichlorofluoromethane	ug/L	1.9		0.30	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 13:12	VOA6_431748_R43174	X040408

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23031739

Volatiles by EPA 8260

VBLKW-230404	Collected	Received	Matrix	Basis
VBLKW-230404	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	04/04/23 12:51	VOA6_431748_R43174	X040407
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,2-Dibromo-3-	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23031739

Volatiles by EPA 8260

VBLKW-230404	Collected	Received	Matrix	Basis
VBLKW-230404	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	04/04/23 12:51	VOA6_431748_R43174	X040407
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	04/04/23 12:51	VOA6_431748_R43174	X040407

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA 8260

Workorder

HS23031739

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

04/10/2023

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
HS23031739

Volatiles by EPA 8260

RunID
VOA6_431748_R431748

CCV	Analyzed 04/04/23	Conc Units µg/L	Dilution 1

Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	47.94	50	95.9	80-120	
4-Bromofluorobenzene	49.87	50	99.7	80-120	
Dibromofluoromethane	49.07	50	98.1	80-120	
Toluene-d8	48.48	50	97.0	80-120	

CCB	Analyzed 04/04/23	Conc Units µg/L	Dilution 1

Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	46.09	50	92.2	80-120	
4-Bromofluorobenzene	46.84	50	93.7	80-120	
Dibromofluoromethane	45.37	50	90.7	80-120	
Toluene-d8	52.75	50	105	80-120	

VLCSW-230404	Analyzed 04/04/23	Conc Units µg/L	Dilution 1

Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	50.22	50	100	81-118	
4-Bromofluorobenzene	51.69	50	103	85-114	
Dibromofluoromethane	50.67	50	101	80-119	
Toluene-d8	50.17	50	100	89-112	

VBLKW-230404	Analyzed 04/04/23	Conc Units µg/L	Dilution 1

Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	45.53	50	91.1	81-118	
4-Bromofluorobenzene	49.69	50	99.4	85-114	
Dibromofluoromethane	45.93	50	91.9	80-119	
Toluene-d8	53.27	50	107	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
HS23031739

RunID
VOA6_431748_R431748

Volatiles by EPA 8260

HS23031739-02	Analyzed 04/04/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	45	50	90.6	81-118	
4-Bromofluorobenzene	50	50	99.7	85-114	
Dibromofluoromethane	45	50	90.7	80-119	
Toluene-d8	53	50	106	89-112	

HS23031739-01	Analyzed 04/04/23	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	100.0	85-114	
Dibromofluoromethane	46	50	91.7	80-119	
Toluene-d8	54	50	108	89-112	

HS23031739-01MS	Analyzed 04/04/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	44.19	50	88.4	81-118	
4-Bromofluorobenzene	51.15	50	102	85-114	
Dibromofluoromethane	44.58	50	89.2	80-119	
Toluene-d8	53.52	50	107	89-112	

HS23031739-01MSD	Analyzed 04/04/23	Conc Units µg/L	Dilution 1		
Surrogate	Result Conc	Spike Conc	%Recovery	%Recovery Limits	Q
1,2-Dichloroethane-d4	42.08	50	84.2	81-118	
4-Bromofluorobenzene	52.22	50	104	85-114	
Dibromofluoromethane	44.46	50	88.9	80-119	
Toluene-d8	52.13	50	104	89-112	

Q - Surrogate %Recovery Flag * - %Recovery / RPD Outside Limits

01186112

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA 8260

Workorder

HS23031739

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

04/10/2023

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 **HS23031739**

LH18/24-SP650_032823	HS23031739-01	HS23031739-01MS	HS23031739-01MSD	
Sample Matrix Aqueous	**Run Date** 04/04/23	04/04/23	04/04/23	
Units µg/L	**Run Time** 13:33	14:57	15:18	
	Data File X040409.D	X040413.D	X040414.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	17.83	20.00	89		19.97	20.00	100		20	11.3	
1,1,1-Trichloroethane	74-131	1	0	17.56	20.00	88		19.15	20.00	96		20	8.70	
1,1,2,2-Tetrachloroethane	71-121	1	0	18.17	20.00	91		17.84	20.00	89		20	1.80	
1,1,2-Trichloroethane	80-119	1	0	17.34	20.00	87		18.26	20.00	91		20	5.10	
1,1-Dichloroethane	77-125	1	0	14.52	20.00	73	*	16.79	20.00	84		20	14.5	
1,1-Dichloroethene	71-131	1	0	11.11	20.00	56	*	15.7	20.00	79		20	34.2	
1,1-Dichloropropene	78-125	1	0	19.02	20.00	95		20.63	20.00	103		20	8.10	
1,2,3-Trichlorobenzene	69-129	1	0	18.61	20.00	93		19.77	20.00	99		20	6.10	
1,2,3-Trichloropropane	73-122	1	0	18.62	20.00	93		17	20.00	85		20	9.10	
1,2,4-Trichlorobenzene	69-130	1	0	18.62	20.00	93		20.37	20.00	102		20	9.00	
1,2,4-Trimethylbenzene	76-124	1	0	20.05	20.00	100		21.34	20.00	107		20	6.20	
1,2-Dibromo-3-chloropropane	62-128	1	0	18.23	20.00	91		17	20.00	85		20	7.00	
1,2-Dibromoethane	77-121	1	0	18.24	20.00	91		19.11	20.00	96		20	4.70	
1,2-Dichlorobenzene	80-119	1	0	19.05	20.00	95		20.51	20.00	103		20	7.40	
1,2-Dichloroethane	73-128	1	0	16.98	20.00	85		19.44	20.00	97		20	13.5	
1,2-Dichloropropane	78-122	1	0	15.67	20.00	78		17.72	20.00	89		20	12.3	
1,3,5-Trimethylbenzene	75-124	1	0	20.22	20.00	101		21.54	20.00	108		20	6.30	
1,3-Dichlorobenzene	80-119	1	0	19.22	20.00	96		20.66	20.00	103		20	7.20	
1,3-Dichloropropane	80-119	1	0	17.47	20.00	87		19.13	20.00	96		20	9.10	
1,4-Dichlorobenzene	79-118	1	0	18.70	20.00	94		20.01	20.00	100		20	6.80	
2,2-Dichloropropane	60-139	1	0	17.82	20.00	89		18.99	20.00	95		20	6.30	
2-Butanone	56-143	1	0	24.12	40.00	60		24.98	40.00	62		20	3.50	
2-Chlorotoluene	79-122	1	0	19.83	20.00	99		21.23	20.00	106		20	6.80	
2-Hexanone	57-139	1	0	36.38	40.00	91		34.54	40.00	86		20	5.20	
4-Chlorotoluene	78-122	1	0	20.31	20.00	102		21.69	20.00	108		20	6.60	
4-Isopropyltoluene	77-127	1	0	21.66	20.00	108		22.91	20.00	115		20	5.60	
4-Methyl-2-pentanone	67-130	1	0	36.90	40.00	92		36.69	40.00	92		20	0.600	
Acetone	39-160	1	0	9.717	40.00	24	*	16.6	40.00	42		20	52.3	
Benzene	79-120	1	0	16.18	20.00	81		18.33	20.00	92		20	12.4	
Bromobenzene	80-120	1	0	18.80	20.00	94		20.11	20.00	101		20	6.80	
Bromochloromethane	78-123	1	0	13.23	20.00	66	*	15.6	20.00	78	*	20	16.4	
Bromodichloromethane	79-125	1	0	16.44	20.00	82		18.74	20.00	94		20	13.0	
Bromoform	66-130	1	0	17.81	20.00	89		18.91	20.00	95		20	6.00	
Bromomethane	53-141	1	0	10.75	20.00	54		10.21	20.00	51	*	20	5.20	

- %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 **HS23031739**

LH18/24-SP650_032823	HS23031739-01	HS23031739-01MS	HS23031739-01MSD	
Sample Matrix Aqueous	**Run Date** 04/04/23	04/04/23	04/04/23	
Units µg/L	**Run Time** 13:33	14:57	15:18	
	Data File X040409.D	X040413.D	X040414.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	21.94	40.00	55	*	31.09	40.00	78		20	34.5	
Carbon tetrachloride	72-136	1	0	20.28	20.00	101		21.8	20.00	109		20	7.20	
Chlorobenzene	82-118	1	0	18.02	20.00	90		20.08	20.00	100		20	10.8	
Chloroethane	60-138	1	0	26.75	20.00	134		18.03	20.00	90		20	39.0	
Chloroform	79-124	1	0	14.61	20.00	73	*	16.83	20.00	84		20	14.1	
Chloromethane	50-139	1	0	13.97	20.00	70		13.45	20.00	67		20	3.80	
cis-1,2-Dichloroethene	78-123	1	1.226	16.05	20.00	74	*	18.46	20.00	86		20	14.0	
cis-1,3-Dichloropropene	75-124	1	0	15.57	20.00	78		18.15	20.00	91		20	15.3	
Dibromochloromethane	74-126	1	0	17.21	20.00	86		19.51	20.00	98		20	12.5	
Dibromomethane	79-123	1	0	16.26	20.00	81		18.1	20.00	91		20	10.8	
Dichlorodifluoromethane	32-152	1	0	11.18	20.00	56		9.487	20.00	47		20	16.4	
Ethylbenzene	79-121	1	0	18.83	20.00	94		20.79	20.00	104		20	9.90	
Hexachlorobutadiene	66-134	1	0	23.97	20.00	120		25.74	20.00	129		20	7.10	
Isopropylbenzene	72-131	1	0	20.40	20.00	102		22	20.00	110		20	7.50	
m,p-Xylene	80-121	1	0	37.85	40.00	95		41.91	40.00	105		20	10.2	
Methylene chloride	74-124	1	0	11.89	20.00	60	*	15.31	20.00	77		20	25.2	
n-Butylbenzene	75-128	1	0	22.76	20.00	114		24.43	20.00	122		20	7.10	
n-Propylbenzene	76-126	1	0	21.13	20.00	106		22.23	20.00	111		20	5.10	
Naphthalene	61-128	1	0	18.45	20.00	92		18.65	20.00	93		20	1.10	
o-Xylene	78-122	1	0	18.60	20.00	93		20.33	20.00	102		20	8.90	
sec-Butylbenzene	77-126	1	0	21.99	20.00	110		22.69	20.00	113		20	3.20	
Styrene	78-123	1	0	18.51	20.00	93		20.77	20.00	104		20	11.5	
tert-Butylbenzene	78-124	1	0	21.76	20.00	109		22.46	20.00	112		20	3.20	
Tetrachloroethene	74-129	1	0	22.65	20.00	113		23.67	20.00	118		20	4.40	
Toluene	80-121	1	0	18.99	20.00	95		20.69	20.00	103		20	8.60	
trans-1,2-Dichloroethene	75-124	1	0	15.09	20.00	75		16.86	20.00	84		20	11.1	
trans-1,3-Dichloropropene	73-127	1	0	16.24	20.00	81		18.39	20.00	92		20	12.4	
Trichloroethene	79-123	1	0	19.73	20.00	99		20.49	20.00	102		20	3.80	
Trichlorofluoromethane	65-141	1	0	14.48	20.00	72		13.52	20.00	68		20	6.90	
Vinyl chloride	58-137	1	0	12.16	20.00	61		11.34	20.00	57	*	20	6.90	

- %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

HS23031739

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

04/10/2023

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
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Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23031739

Volatiles by EPA 8260

VOA6_431748_R431748		QC ID	LCS-R431748
QC Matrix Aqueous	Units	Run Date	04/04/23
	ug/L	Run Time	12:09

Analyte	%R Limits	Spike Added	LCS Result	%R	Q
1,1,1,2-Tetrachloroethane	78-124	20	22.28	111	
1,1,1-Trichloroethane	74-131	20	23	115	
1,1,2,2-Tetrachloroethane	71-121	20	23.89	119	
1,1,2-Trichloroethane	80-119	20	23.22	116	
1,1-Dichloroethane	77-125	20	21.45	107	
1,1-Dichloroethene	71-131	20	17.54	88	
1,1-Dichloropropene	78-125	20	22.56	113	
1,2,3-Trichlorobenzene	69-129	20	18.68	93	
1,2,3-Trichloropropane	73-122	20	24.21	121	
1,2,4-Trichlorobenzene	69-130	20	21.24	106	
1,2,4-Trimethylbenzene	76-124	20	21.97	110	
1,2-Dibromo-3-chloropropane	62-128	20	24.68	123	
1,2-Dibromoethane	77-121	20	24.32	122	
1,2-Dichlorobenzene	80-119	20	22.52	113	
1,2-Dichloroethane	73-128	20	24.79	124	
1,2-Dichloroethane-d4	81-118	50	50.22	100	
1,2-Dichloropropane	78-122	20	21.93	110	
1,3,5-Trimethylbenzene	75-124	20	21.69	108	
1,3-Dichlorobenzene	80-119	20	22.24	111	
1,3-Dichloropropane	80-119	20	23.86	119	
1,4-Dichlorobenzene	79-118	20	21.36	107	
2,2-Dichloropropane	60-139	20	24.21	121	
2-Butanone	56-143	40	43.91	110	
2-Chlorotoluene	79-122	20	22.44	112	
2-Hexanone	57-139	40	50.31	126	
4-Bromofluorobenzene	85-114	50	51.69	103	
4-Chlorotoluene	78-122	20	22.98	115	
4-Isopropyltoluene	77-127	20	22.81	114	
4-Methyl-2-pentanone	67-130	40	49.89	125	
Acetone	39-160	40	41.09	103	
Benzene	79-120	20	21.7	108	
Bromobenzene	80-120	20	22.56	113	
Bromochloromethane	78-123	20	20.44	102	
Bromodichloromethane	79-125	20	22.64	113	
Bromoform	66-130	20	24.9	125	

- %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
HS23031739

Volatiles by EPA 8260

VOA6_431748_R431748		QC ID	LCS-R431748
QC Matrix Aqueous	Units	Run Date	04/04/23
	ug/L	Run Time	12:09

Analyte	%R Limits	Spike Added	LCS Result	%R	Q
Bromomethane	53-141	20	20.68	103	
Carbon disulfide	64-133	40	36.6	92	
Carbon tetrachloride	72-136	20	22.59	113	
Chlorobenzene	82-118	20	22.24	111	
Chloroethane	60-138	20	14.51	73	
Chloroform	79-124	20	21.32	107	
Chloromethane	50-139	20	17.97	90	
cis-1,2-Dichloroethene	78-123	20	21.72	109	
cis-1,3-Dichloropropene	75-124	20	22.19	111	
Dibromochloromethane	74-126	20	23.07	115	
Dibromofluoromethane	80-119	50	50.67	101	
Dibromomethane	79-123	20	23.13	116	
Dichlorodifluoromethane	32-152	20	20.77	104	
Ethylbenzene	79-121	20	21.84	109	
Hexachlorobutadiene	66-134	20	24.06	120	
Isopropylbenzene	72-131	20	22.53	113	
m,p-Xylene	80-121	40	44.78	112	
Methylene chloride	74-124	20	21.45	107	
Naphthalene	61-128	20	21.78	109	
n-Butylbenzene	75-128	20	23.86	119	
n-Propylbenzene	76-126	20	22.41	112	
o-Xylene	78-122	20	22.34	112	
sec-Butylbenzene	77-126	20	22.05	110	
Styrene	78-123	20	23.15	116	
tert-Butylbenzene	78-124	20	22.41	112	
Tetrachloroethene	74-129	20	23.34	117	
Toluene	80-121	20	23.33	117	
Toluene-d8	89-112	50	50.17	100	
trans-1,2-Dichloroethene	75-124	20	21.53	108	
trans-1,3-Dichloropropene	73-127	20	23.31	117	
Trichloroethene	79-123	20	22.38	112	
Trichlorofluoromethane	65-141	20	16.62	83	
Vinyl chloride	58-137	20	16.21	81	

- %Recovery / RPD Flag * - %Recovery / RPD Outside Limits

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Form 4

Method Blank Summary

Volatiles by EPA 8260

Workorder

HS23031739

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

04/10/2023

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 Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23031739

Volatiles by EPA 8260

Client Sample ID	Type	Lab Sample ID	File ID	Date Analyzed	Run ID
METHOD BLANK	MBLK	VBLKW-230404	X040407.D	04/04/23 12:51	VOA6_431748_R431748
VLCSW-230404	LCS	VLCSW-230404	X040405.D	04/04/23 12:09	VOA6_431748_R431748
Trip Blank	SAMP	HS23031739-02	X040408.D	04/04/23 13:12	VOA6_431748_R431748
LH18/24-SP650_032823	SAMP	HS23031739-01	X040409.D	04/04/23 13:33	VOA6_431748_R431748
LH18/24-SP650_032823	MS	HS23031739-01MS	X040413.D	04/04/23 14:57	VOA6_431748_R431748
LH18/24-SP650_032823	MSD	HS23031739-01MSD	X040414.D	04/04/23 15:18	VOA6_431748_R431748

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Form 5

Instrument Performance Check

Volatiles by EPA 8260

Workorder

HS23031739

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

04/10/2023

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
HS23031739

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
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: HS23031739

Lab File ID: X040401 DFTPP Injection Date: 04/04/23

Instrument ID: VOA6 DFTPP Injection Time: 1045

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.6
75	30.0 - 60.0% of mass 95	44.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (0.5)1
174	Greater than 50.0% of mass 95	88.0
175	5.0 - 9.0% of mass 174	6.4 (7.2)1
176	95.0 - 101.0% of mass 174	83.8 (95.2)1
177	5.0 - 9.0% of mass 176	5.8 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV	CCV	X040403	04/04/23	1127
02	VLCSW-230404	VLCSW-230404	X040405	04/04/23	1209
03	VBLKW-230404	VBLKW-230404	X040407	04/04/23	1251
04	HS23031739-02	HS23031739-02	X040408	04/04/23	1312
05	HS23031739-01	HS23031739-01	X040409	04/04/23	1333
06	HS23031739-01MS	HS23031739-01MS	X040413	04/04/23	1457
07	HS23031739-01MSD	HS23031739-01MSD	X040414	04/04/23	1518
08	CCV-END	CCV-END	X040431	04/04/23	2116
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

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Form 6

Initial Calibration Data

Volatiles by EPA 8260

Workorder

HS23031739

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

04/10/2023

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 HS23031739

RunID VOA6_430425

Volatiles by EPA 8260

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	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23031739

RunID VOA6_430425

Volatiles by EPA 8260

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	

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Initial Calibration Data

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23031739

RunID VOA6_430425

Volatiles by EPA 8260

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 HS23031739

RunID VOA6_430425

Volatiles by EPA 8260

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 Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23031739

RunID VOA6_430425

Volatiles by EPA 8260

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 Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23031739

RunID VOA6_430425

Volatiles by EPA 8260

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	0.30996	0.25650	0.24947	0.26157	0.26945						
	0.29082	0.28454	0.28902	0.29596			AVRG		0.27859		7.27750	
Isopropylbenzene	NE	1.42556	1.45286	1.47212	1.12383	1.19028						
	1.24429	1.38661	1.37809	1.35267			AVRG		1.33626		9.14543	
1,1,2,2-Tetrachloroethane	NE	0.99715	0.84918	0.88045	0.89221	0.82734						
	0.85932	0.82772	0.81837	0.88925			AVRG		0.87122		6.27988	
1,2,3-Trichloropropane	NE	0.70191	0.64722	0.66016	0.64496	0.61845						
	0.67077	0.61192	0.69479	0.64266			AVRG		0.65476		4.69619	
trans-1,4-Dichloro-2-butene	NE	541	1007	1998	5471	23270						
	62606	125897	181079	NE			LINR	0.01057	0.11249		0.99985	
n-Propylbenzene	NE	3.07273	2.81938	2.96967	2.25283	2.47692						
	2.59864	2.98014	2.97016	2.86997			AVRG		2.77894		9.93810	
Bromobenzene	NE	0.82667	0.81792	0.81212	0.76727	0.74640						
	0.78640	0.82135	0.82414	0.83253			AVRG		0.80387		3.75046	
1,3,5-Trimethylbenzene	NE	2.33558	2.24733	2.27828	1.83105	1.94518						
	2.03282	2.25975	2.24397	2.22495			AVRG		2.15544		8.10253	
2-Chlorotoluene	NE	1.89176	2.04730	1.99410	1.74847	1.75572						
	1.76962	1.85674	1.88892	1.86296			AVRG		1.86840		5.54193	
4-Chlorotoluene	NE	2.20002	2.01524	2.18800	1.93389	2.02354						
	2.03979	2.17419	2.17083	2.20748			AVRG		2.10589		4.85891	
tert-Butylbenzene	NE	1.89653	1.87243	1.87631	1.38270	1.49567						
	1.55788	1.84581	1.82858	1.69495			AVRG		1.71676		11.23010	
1,2,4-Trimethylbenzene	NE	2.54669	2.23258	2.27654	1.93041	2.03887						
	2.10068	2.30265	2.29594	2.17064			AVRG		2.21056		8.07996	

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Workorder HS23031739

RunID VOA6_430425

Volatiles by EPA 8260

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 HS23031739

RunID VOA6_430425

Volatiles by EPA 8260

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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Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23031739

RunID VOA6_430425

Volatiles by EPA 8260

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 HS23031739

RunID VOA6_430425

Volatiles by EPA 8260

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 HS23031739

RunID VOA6_430425

Volatiles by EPA 8260

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 HS23031739

RunID VOA6_430425

Volatiles by EPA 8260

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

HS23031739

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

04/10/2023

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 HS23031739

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 HS23031739

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 HS23031739

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

HS23031739

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

04/10/2023

ALS Environmental–Houston Laboratory
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Continuing Calibration Verification (CCV)

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

Workorder HS23031739

RunID VOA6_431748

Instrument ID voa6.i Injection Date 04-APR-2023 1127
Lab File ID X040403.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	0.00698	0.00698	0.001	-5.18878	20.0	Averaged	
1,3-Butadiene	0.33908	0.29778	0.29778	0.100	12.18011	20.0	Averaged	
Methacrylonitrile	0.46082	0.44893	0.44893	0.100	2.58050	20.0	Averaged	
Isobutyl Alcohol	0.06822	0.06699	0.06699	0.005	1.80504	20.0	Averaged	
Acetonitrile	0.04653	0.03505	0.03505	0.005	24.67254	20.0	Averaged	<-
Allyl Chloride	1.15102	0.82962	0.82962	0.100	27.92293	20.0	Averaged	<-
Propionitrile	0.07045	0.06515	0.06515	0.010	7.52168	20.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	57.88057	0.12903	0.050	-15.76113	20.0	Linear	
Acetaldehyde	200	182	0.02715	0.001	9.02005	20.0	Linear	
Chloroprene	0.13712	0.11793	0.11793	0.100	13.99361	20.0	Averaged	
Diisopropyl ether	1.55229	1.39840	1.39840	0.100	9.91383	20.0	Averaged	
Dichlorodifluoromethane	50.0	54.19917	0.37194	0.100	-8.39835	20.0	Quadratic	
Chloromethane	0.45993	0.45447	0.45447	0.100	1.18547	20.0	Averaged	
Vinyl Chloride	0.39382	0.38504	0.38504	0.100	2.23063	20.0	Averaged	
Bromomethane	0.22643	0.23446	0.23446	0.100	-3.54736	20.0	Averaged	
Chloroethane	0.27929	0.22347	0.22347	0.100	19.98830	20.0	Averaged	
Trichlorofluoromethane	0.46712	0.47025	0.47025	0.100	-0.67005	20.0	Averaged	
Acrolein	100	77.54197	0.02183	0.010	22.45803	20.0	Linear	<-
Acetone	100	80.28014	0.10632	0.100	19.71986	20.0	Linear	
1,1-Dichloroethene	0.30026	0.27738	0.27738	0.100	7.61955	20.0	Averaged	
Iodomethane	100	128	0.46706	0.100	-27.53740	20.0	Quadratic	<-
Acrylonitrile	0.16685	0.16075	0.16075	0.050	3.66006	20.0	Averaged	
Methylene Chloride	50.0	52.03482	0.50809	0.100	-4.06963	20.0	Linear	
Methyl tert-butyl ether	1.58098	1.43118	1.43118	0.100	9.47499	20.0	Averaged	
Carbon Disulfide	1.10319	1.06818	1.06818	0.100	3.17329	20.0	Averaged	
trans-1,2-Dichloroethene	0.42349	0.44509	0.44509	0.100	-5.09966	20.0	Averaged	
Vinyl Acetate	1.27609	1.34133	1.34133	0.010	-5.11231	20.0	Averaged	
1,1-Dichloroethane	0.76698	0.78909	0.78909	0.200	-2.88263	20.0	Averaged	
2-Butanone	0.17902	0.18493	0.18493	0.100	-3.29767	20.0	Averaged	
2,2-Dichloropropane	50.0	59.22322	0.71507	0.100	-18.44644	20.0	Linear	
cis-1,2-Dichloroethene	0.51249	0.53169	0.53169	0.100	-3.74611	20.0	Averaged	
Chloroform	0.85126	0.87224	0.87224	0.200	-2.46476	20.0	Averaged	
Bromochloromethane	0.29002	0.28244	0.28244	0.100	2.61339	20.0	Averaged	
Dibromofluoromethane	50.0	49.06972	0.45737	0.100	1.86055	20.0	Linear	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23031739

RunID VOA6_431748

Instrument ID voa6.i Injection Date 04-APR-2023 1127
Lab File ID X040403.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
1,1,1-Trichloroethane	0.63658	0.73254	0.73254	0.100	-15.07585	20.0	Averaged	
1,1-Dichloropropene	0.35675	0.41423	0.41423	0.100	-16.10934	20.0	Averaged	
1,2-Dichloroethane	0.41566	0.45100	0.45100	0.100	-8.50353	20.0	Averaged	
Carbon Tetrachloride	0.34151	0.39838	0.39838	0.100	-16.65072	20.0	Averaged	
1,2-Dichloroethane-d4	50.0	47.93902	0.51638	0.100	4.12196	20.0	Linear	
Benzene	1.22946	1.29754	1.29754	0.500	-5.53773	20.0	Averaged	
Trichloroethene	0.33116	0.37381	0.37381	0.200	-12.88043	20.0	Averaged	
Bromodichloromethane	0.43642	0.47398	0.47398	0.200	-8.60706	20.0	Averaged	
2-Chloroethylvinyl ether	0.13269	0.14645	0.14645	0.001	-10.37407	20.0	Averaged	
1,2-Dichloropropane	0.33133	0.34877	0.34877	0.100	-5.26609	20.0	Averaged	
Dibromomethane	0.21134	0.22859	0.22859	0.100	-8.16132	20.0	Averaged	
4-Methyl-2-Pentanone	0.31636	0.33047	0.33047	0.100	-4.46211	20.0	Averaged	
cis-1,3-Dichloropropene	0.55123	0.60195	0.60195	0.200	-9.20074	20.0	Averaged	
Toluene-d8	1.23950	1.20187	1.20187	0.100	3.03599	20.0	Averaged	
Toluene	1.31183	1.48108	1.48108	0.400	-12.90192	20.0	Averaged	
trans-1,3-Dichloropropene	0.45762	0.51641	0.51641	0.100	-12.84595	20.0	Averaged	
2-Hexanone	0.21713	0.22550	0.22550	0.100	-3.85498	20.0	Averaged	
1,1,2-Trichloroethane	0.28521	0.30315	0.30315	0.100	-6.29073	20.0	Averaged	
1,3-Dichloropropane	0.56683	0.62635	0.62635	0.100	-10.50098	20.0	Averaged	
Dibromochloromethane	0.40290	0.44701	0.44701	0.100	-10.94830	20.0	Averaged	
Tetrachloroethene	0.26297	0.31553	0.31553	0.200	-19.98417	20.0	Averaged	
1,2-Dibromoethane	0.35253	0.40058	0.40058	0.100	-13.63037	20.0	Averaged	
1-Chlorohexane	50.0	57.93898	0.27838	0.100	-15.87797	20.0	Linear	
Chlorobenzene	0.93747	1.03249	1.03249	0.500	-10.13594	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36126	0.40111	0.40111	0.100	-11.02981	20.0	Averaged	
Ethylbenzene	0.46137	0.51389	0.51389	0.100	-11.38447	20.0	Averaged	
m,p-Xylenes	0.58063	0.65192	0.65192	0.100	-12.27959	20.0	Averaged	
o-Xylene	0.58343	0.64295	0.64295	0.300	-10.20098	20.0	Averaged	
Styrene	0.96405	1.10674	1.10674	0.300	-14.80161	20.0	Averaged	
Bromoform	0.27859	0.31855	0.31855	0.100	-14.34428	20.0	Averaged	
Isopropylbenzene	1.33626	1.53832	1.53832	0.100	-15.12186	20.0	Averaged	
1,1,2,2-Tetrachloroethane	0.87122	0.92800	0.92800	0.300	-6.51662	20.0	Averaged	
4-Bromofluorobenzene	50.0	49.87197	0.47216	0.100	0.25607	20.0	Linear	
1,2,3-Trichloropropane	0.65476	0.77506	0.77506	0.100	-18.37249	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23031739

RunID VOA6_431748

Instrument ID voa6.i Injection Date 04-APR-2023 1127
Lab File ID X040403.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
n-Propylbenzene	2.77894	3.27973	3.27973	0.100	-18.02108	20.0	Averaged	
Bromobenzene	0.80387	0.91229	0.91229	0.100	-13.48791	20.0	Averaged	
1,3,5-Trimethylbenzene	2.15544	2.45453	2.45453	0.100	-13.87646	20.0	Averaged	
2-Chlorotoluene	1.86840	2.09835	2.09835	0.100	-12.30758	20.0	Averaged	
4-Chlorotoluene	2.10589	2.44166	2.44166	0.100	-15.94476	20.0	Averaged	
tert-Butylbenzene	1.71676	2.00591	2.00591	0.100	-16.84282	20.0	Averaged	
1,2,4-Trimethylbenzene	2.21056	2.51954	2.51954	0.100	-13.97748	20.0	Averaged	
sec-Butylbenzene	2.32687	2.74232	2.74232	0.100	-17.85476	20.0	Averaged	
p-Isopropyltoluene	2.07629	2.48627	2.48627	0.100	-19.74531	20.0	Averaged	
1,3-Dichlorobenzene	1.39033	1.56300	1.56300	0.600	-12.41987	20.0	Averaged	
1,4-Dichlorobenzene	1.49428	1.62405	1.62405	0.400	-8.68386	20.0	Averaged	
n-Butylbenzene	1.67342	2.12152	2.12152	0.500	-26.77747	20.0	Averaged	<-
1,2-Dichlorobenzene	1.39061	1.57112	1.57112	0.400	-12.98039	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	53.72888	0.17278	0.040	-7.45775	20.0	Linear	
1,2,4-Trichlorobenzene	1.01667	1.12435	1.12435	0.100	-10.59129	20.0	Averaged	
Hexachlorobutadiene	50.0	56.72736	0.45579	0.100	-13.45471	20.0	Quadratic	
Naphthalene	2.44011	2.64782	2.64782	0.200	-8.51228	20.0	Averaged	
1,2,3-Trichlorobenzene	0.97286	1.07724	1.07724	0.010	-10.72958	20.0	Averaged	
1,2-Dichloroethylene (total	0.46799	0.48839	0.48839	0.200	-4.35853	20.0	Averaged	
Xylenes (total)	0.55485	0.61008	0.61008	0.100	-9.95463	20.0	Averaged	
Cyclohexane	50.0	58.77586	0.63711	0.100	-17.55172	20.0	Quadratic	
Freon TF	50.0	55.00494	0.30765	0.100	-10.00989	20.0	Quadratic	
Methylcyclohexane	0.69037	0.70511	0.70511	0.100	-2.13567	20.0	Averaged	
Methyl Acetate	0.28739	0.25938	0.25938	0.100	9.74749	20.0	Averaged	
Tert-butyl alcohol	0.05236	0.04936	0.04936	0.005	5.74014	20.0	Averaged	
Isopropyl alcohol	0.02798	0.02563	0.02563	0.005	8.40486	20.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23031739

RunID VOA6_431748

Instrument ID voa6.i Injection Date 04-APR-2023 2116
Lab File ID X040431.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	0.00707	0.00707	0.001	-6.63594	50.0	Averaged	
1,3-Butadiene	0.33908	0.22861	0.22861	0.100	32.58098	50.0	Averaged	
Methacrylonitrile	0.46082	0.48179	0.48179	0.100	-4.54969	50.0	Averaged	
Isobutyl Alcohol	0.06822	0.06690	0.06690	0.005	1.92622	50.0	Averaged	
Acetonitrile	0.04653	0.04288	0.04288	0.005	7.84618	50.0	Averaged	
Allyl Chloride	1.15102	1.00668	1.00668	0.100	12.54061	50.0	Averaged	
Propionitrile	0.07045	0.06745	0.06745	0.010	4.25507	50.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	54.25580	0.12088	0.050	-8.51159	50.0	Linear	
Acetaldehyde	200	139	0.02078	0.001	30.45537	50.0	Linear	
Chloroprene	0.13712	0.10398	0.10398	0.100	24.16971	50.0	Averaged	
Diisopropyl ether	1.55229	1.36617	1.36617	0.100	11.99009	50.0	Averaged	
Dichlorodifluoromethane	50.0	49.28859	0.33653	0.100	1.42283	50.0	Quadratic	
Chloromethane	0.45993	0.42099	0.42099	0.100	8.46549	50.0	Averaged	
Vinyl Chloride	0.39382	0.30958	0.30958	0.100	21.39044	50.0	Averaged	
Bromomethane	0.22643	0.19430	0.19430	0.100	14.18894	50.0	Averaged	
Chloroethane	0.27929	0.16734	0.16734	0.100	40.08270	50.0	Averaged	
Trichlorofluoromethane	0.46712	0.35209	0.35209	0.100	24.62568	50.0	Averaged	
Acrolein	100	56.03317	0.01552	0.010	43.96683	50.0	Linear	
Acetone	100	72.93386	0.09718	0.100	27.06614	50.0	Linear	
1,1-Dichloroethene	0.30026	0.24526	0.24526	0.100	18.31711	50.0	Averaged	
Iodomethane	100	81.38333	0.27737	0.100	18.61667	50.0	Quadratic	
Acrylonitrile	0.16685	0.17034	0.17034	0.050	-2.08990	50.0	Averaged	
Methylene Chloride	50.0	51.86189	0.50645	0.100	-3.72379	50.0	Linear	
Methyl tert-butyl ether	1.58098	1.44066	1.44066	0.100	8.87493	50.0	Averaged	
Carbon Disulfide	1.10319	0.97943	0.97943	0.100	11.21890	50.0	Averaged	
trans-1,2-Dichloroethene	0.42349	0.42305	0.42305	0.100	0.10494	50.0	Averaged	
Vinyl Acetate	1.27609	1.34189	1.34189	0.010	-5.15672	50.0	Averaged	
1,1-Dichloroethane	0.76698	0.76864	0.76864	0.200	-0.21589	50.0	Averaged	
2-Butanone	0.17902	0.18297	0.18297	0.100	-2.20621	50.0	Averaged	
2,2-Dichloropropane	50.0	49.01678	0.59236	0.100	1.96645	50.0	Linear	
cis-1,2-Dichloroethene	0.51249	0.51004	0.51004	0.100	0.47679	50.0	Averaged	
Chloroform	0.85126	0.85137	0.85137	0.200	-0.01261	50.0	Averaged	
Bromochloromethane	0.29002	0.28210	0.28210	0.100	2.73034	50.0	Averaged	
Dibromofluoromethane	50.0	52.03984	0.48462	0.100	-4.07967	50.0	Linear	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23031739

RunID VOA6_431748

Instrument ID voa6.i Injection Date 04-APR-2023 2116
Lab File ID X040431.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
1,1,1-Trichloroethane	0.63658	0.67738	0.67738	0.100	-6.40991	50.0	Averaged	
1,1-Dichloropropene	0.35675	0.35044	0.35044	0.100	1.76933	50.0	Averaged	
1,2-Dichloroethane	0.41566	0.44857	0.44857	0.100	-7.91797	50.0	Averaged	
Carbon Tetrachloride	0.34151	0.34599	0.34599	0.100	-1.30945	50.0	Averaged	
1,2-Dichloroethane-d4	50.0	51.05628	0.55071	0.100	-2.11256	50.0	Linear	
Benzene	1.22946	1.19979	1.19979	0.500	2.41357	50.0	Averaged	
Trichloroethene	0.33116	0.34815	0.34815	0.200	-5.13226	50.0	Averaged	
Bromodichloromethane	0.43642	0.45069	0.45069	0.200	-3.26864	50.0	Averaged	
2-Chloroethylvinyl ether	0.13269	0.13864	0.13864	0.001	-4.48379	50.0	Averaged	
1,2-Dichloropropane	0.33133	0.32452	0.32452	0.100	2.05383	50.0	Averaged	
Dibromomethane	0.21134	0.22236	0.22236	0.100	-5.21383	50.0	Averaged	
4-Methyl-2-Pentanone	0.31636	0.33960	0.33960	0.100	-7.34667	50.0	Averaged	
cis-1,3-Dichloropropene	0.55123	0.55636	0.55636	0.200	-0.93007	50.0	Averaged	
Toluene-d8	1.23950	1.20127	1.20127	0.100	3.08458	50.0	Averaged	
Toluene	1.31183	1.33932	1.33932	0.400	-2.09610	50.0	Averaged	
trans-1,3-Dichloropropene	0.45762	0.46987	0.46987	0.100	-2.67569	50.0	Averaged	
2-Hexanone	0.21713	0.22653	0.22653	0.100	-4.32861	50.0	Averaged	
1,1,2-Trichloroethane	0.28521	0.29438	0.29438	0.100	-3.21471	50.0	Averaged	
1,3-Dichloropropane	0.56683	0.60385	0.60385	0.100	-6.53109	50.0	Averaged	
Dibromochloromethane	0.40290	0.42679	0.42679	0.100	-5.92920	50.0	Averaged	
Tetrachloroethene	0.26297	0.26552	0.26552	0.200	-0.96993	50.0	Averaged	
1,2-Dibromoethane	0.35253	0.39025	0.39025	0.100	-10.70015	50.0	Averaged	
1-Chlorohexane	50.0	46.51174	0.22127	0.100	6.97653	50.0	Linear	
Chlorobenzene	0.93747	0.93952	0.93952	0.500	-0.21849	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.36126	0.37181	0.37181	0.100	-2.91935	50.0	Averaged	
Ethylbenzene	0.46137	0.45237	0.45237	0.100	1.95017	50.0	Averaged	
m,p-Xylenes	0.58063	0.57036	0.57036	0.100	1.76798	50.0	Averaged	
o-Xylene	0.58343	0.57652	0.57652	0.300	1.18468	50.0	Averaged	
Styrene	0.96405	1.00832	1.00832	0.300	-4.59281	50.0	Averaged	
Bromoform	0.27859	0.31600	0.31600	0.100	-13.42995	50.0	Averaged	
Isopropylbenzene	1.33626	1.30008	1.30008	0.100	2.70739	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.87122	0.93918	0.93918	0.300	-7.80032	50.0	Averaged	
4-Bromofluorobenzene	50.0	50.27652	0.47597	0.100	-0.55304	50.0	Linear	
1,2,3-Trichloropropane	0.65476	0.73428	0.73428	0.100	-12.14405	50.0	Averaged	

Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder HS23031739

RunID VOA6_431748

Instrument ID voa6.i Injection Date 04-APR-2023 2116
Lab File ID X040431.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
n-Propylbenzene	2.77894	2.78466	2.78466	0.100	-0.20582	50.0	Averaged	
Bromobenzene	0.80387	0.84205	0.84205	0.100	-4.75004	50.0	Averaged	
1,3,5-Trimethylbenzene	2.15544	2.13577	2.13577	0.100	0.91226	50.0	Averaged	
2-Chlorotoluene	1.86840	1.89183	1.89183	0.100	-1.25401	50.0	Averaged	
4-Chlorotoluene	2.10589	2.18178	2.18178	0.100	-3.60403	50.0	Averaged	
tert-Butylbenzene	1.71676	1.71104	1.71104	0.100	0.33314	50.0	Averaged	
1,2,4-Trimethylbenzene	2.21056	2.22310	2.22310	0.100	-0.56735	50.0	Averaged	
sec-Butylbenzene	2.32687	2.26579	2.26579	0.100	2.62468	50.0	Averaged	
p-Isopropyltoluene	2.07629	2.05357	2.05357	0.100	1.09468	50.0	Averaged	
1,3-Dichlorobenzene	1.39033	1.41548	1.41548	0.600	-1.80895	50.0	Averaged	
1,4-Dichlorobenzene	1.49428	1.49463	1.49463	0.400	-0.02285	50.0	Averaged	
n-Butylbenzene	1.67342	1.71413	1.71413	0.500	-2.43265	50.0	Averaged	
1,2-Dichlorobenzene	1.39061	1.45847	1.45847	0.400	-4.87950	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	55.06090	0.17719	0.040	-10.12179	50.0	Linear	
1,2,4-Trichlorobenzene	1.01667	1.06697	1.06697	0.100	-4.94790	50.0	Averaged	
Hexachlorobutadiene	50.0	46.13985	0.36325	0.100	7.72030	50.0	Quadratic	
Naphthalene	2.44011	2.79536	2.79536	0.200	-14.55878	50.0	Averaged	
1,2,3-Trichlorobenzene	0.97286	1.04443	1.04443	0.010	-7.35698	50.0	Averaged	
1,2-Dichloroethylene (total	0.46799	0.46654	0.46654	0.200	0.30854	50.0	Averaged	
Xylenes (total)	0.55485	0.53790	0.53790	0.100	3.05504	50.0	Averaged	
Cyclohexane	50.0	48.10036	0.51301	0.100	3.79928	50.0	Quadratic	
Freon TF	50.0	42.07608	0.23105	0.100	15.84783	50.0	Quadratic	
Methylcyclohexane	0.69037	0.67956	0.67956	0.100	1.56576	50.0	Averaged	
Methyl Acetate	0.28739	0.30473	0.30473	0.100	-6.03394	50.0	Averaged	
Tert-butyl alcohol	0.05236	0.05221	0.05221	0.005	0.28514	50.0	Averaged	
Isopropyl alcohol	0.02798	0.02870	0.02870	0.005	-2.56984	50.0	Averaged	

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Form 8

Internal Standard Area and RT Summary

Volatiles by EPA 8260

Workorder

HS23031739

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

04/10/2023

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 Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23031739

RunID
VOA6_431748

		IS1				IS2				IS3				IS4			
Sample ID	File ID	Area		RT		Area		RT		Area		RT		Area		RT	
12-HOUR STD (CCV)	X040403	346342	#	4.18	#	527899	#	4.97	#	496292	#	7.67	#	275066	#	9.66	#
CCB	X040404	416971		4.18		643454		4.97		568666		7.67		239911		9.66	
VLCSW-230404	X040405	319263		4.18		484770		4.97		446610		7.67		251125		9.66	
VBLKW-230404	X040407	503298		4.18		714678		4.97		620360		7.67		316433		9.66	
HS23031739-02	X040408	521747		4.18		735783		4.97		641579		7.67		333775		9.66	
HS23031739-01	X040409	499152		4.18		709979		4.97		612828		7.67		317290		9.66	
HS23031739-01MS	X040413	499287		4.18		693235		4.97		608445		7.67		325159		9.66	
HS23031739-01MSD	X040414	501776		4.18		710295		4.97		639861		7.67		357934		9.66	
CCV-END	X040431	336730		4.18		526084		4.97		494359		7.67		269464		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

HS23031739

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

04/10/2023

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 Longhorn GW Treatment Plant Bi-Weekly Samples

Workorder
HS23031739

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
HS23031739

RunID
VOA6_431748

Run ID VOA6_431748 **Start Date** 04/04/23 **EndDate** 04/04/23

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
10:45	BFB	TUNE	BFB	X040401.D	04/04/23	1
11:27	CCV	CCV	CCV	X040403.D	04/04/23	1
11:48	CCB	CCB	CCB	X040404.D	04/04/23	1
12:09	VLCSW-230404	LCS	VLCSW-230404	X040405.D	04/04/23	1
12:51	VBLKW-230404	MBLK	VBLKW-230404	X040407.D	04/04/23	1
13:12	Trip Blank	SAMP	HS23031739-02	X040408.D	04/04/23	1
13:33	LH18/24-SP650_032823	SAMP	HS23031739-01	X040409.D	04/04/23	1
13:54	ZZZZZZZZZZ	SAMP	HS23031748-17	X040410.D	04/04/23	1
14:15	ZZZZZZZZZZ	SAMP	HS23031748-11	X040411.D	04/04/23	5
14:36	ZZZZZZZZZZ	SAMP	HS23031748-29	X040412.D	04/04/23	1
14:57	HS23031739-01MS	MS	HS23031739-01MS	X040413.D	04/04/23	1
15:18	HS23031739-01MSD	MSD	HS23031739-01MSD	X040414.D	04/04/23	1
15:39	ZZZZZZZZZZ	SAMP	HS23031748-13	X040415.D	04/04/23	5
16:00	ZZZZZZZZZZ	SAMP	HS23031748-14	X040416.D	04/04/23	5
16:21	ZZZZZZZZZZ	SAMP	HS23031748-16	X040417.D	04/04/23	5
16:43	ZZZZZZZZZZ	SAMP	HS23031748-20	X040418.D	04/04/23	5
17:04	ZZZZZZZZZZ	SAMP	HS23040022-01	X040419.D	04/04/23	1
18:28	ZZZZZZZZZZ	SAMP	HS23031748-26	X040423.D	04/04/23	1
18:49	ZZZZZZZZZZ	SAMP	HS23031748-27	X040424.D	04/04/23	1
19:10	ZZZZZZZZZZ	SAMP	HS23040022-02	X040425.D	04/04/23	1
19:31	ZZZZZZZZZZ	SAMP	HS23040022-03	X040426.D	04/04/23	1
19:52	ZZZZZZZZZZ	SAMP	HS23031748-24	X040427.D	04/04/23	1
20:13	ZZZZZZZZZZ	SAMP	HS23031748-23	X040428.D	04/04/23	10
20:34	ZZZZZZZZZZ	SAMP	HS23031748-23	X040429.D	04/04/23	100
20:55	ZZZZZZZZZZ	SAMP	HS23031748-28	X040430.D	04/04/23	1
21:16	CCV-END	CCV_END	CCV-END	X040431.D	04/04/23	1

01186152

right solutions.
right partner.

Raw Data VOA6 430425

Volatiles by EPA 8260

Workorder

HS23031739

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

04/10/2023

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 Page 1

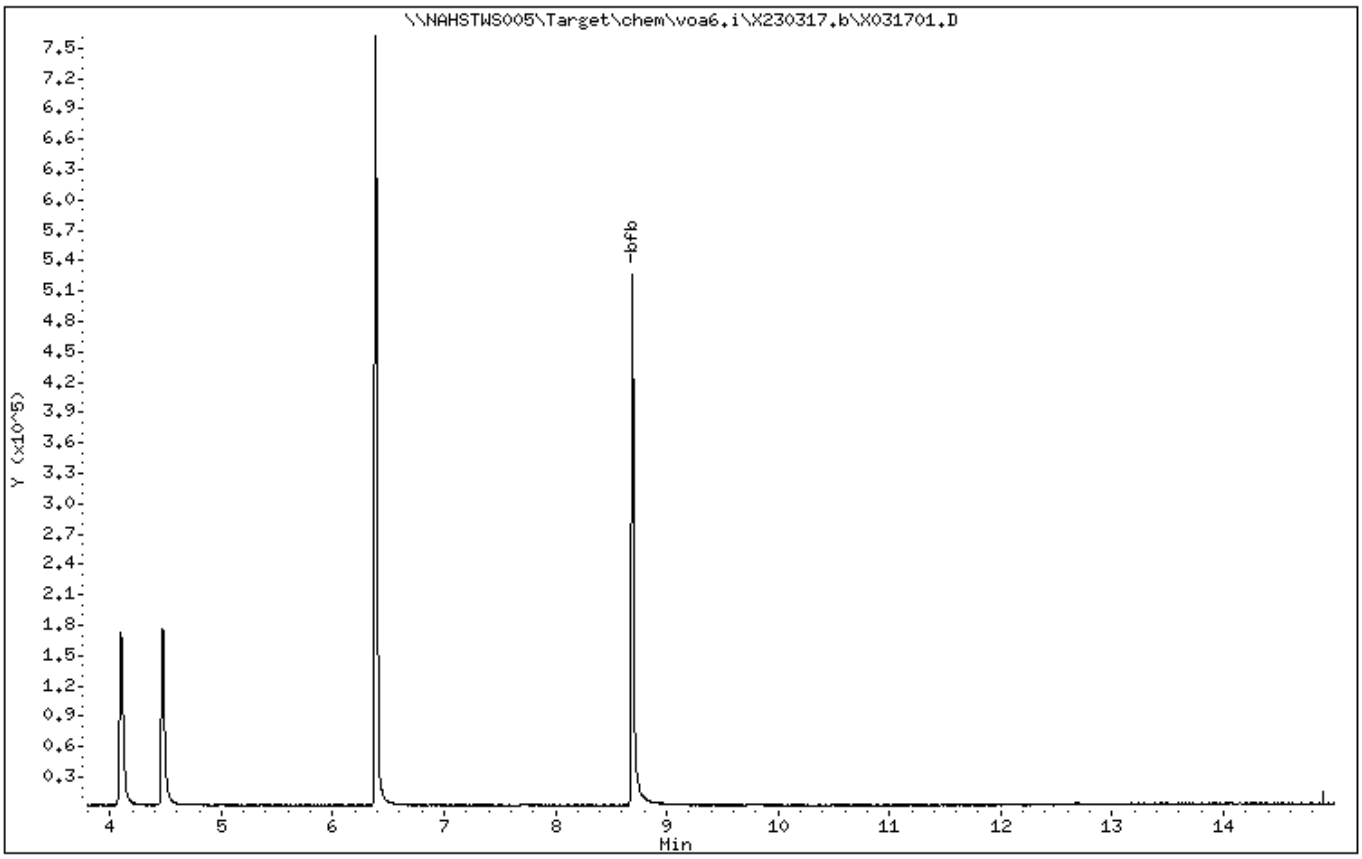
Date : 17-MAR-2023 11:08

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

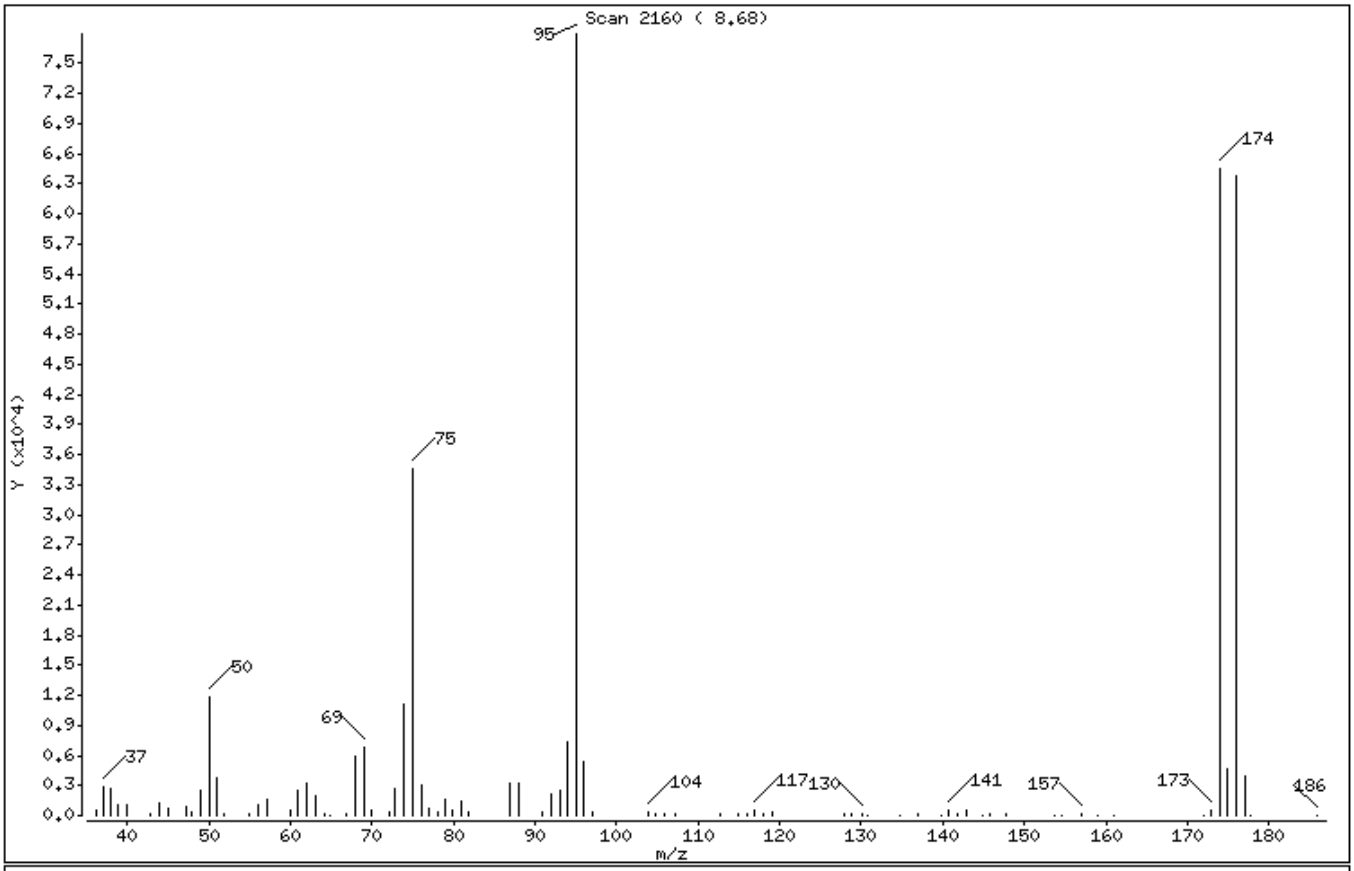
Client ID: BFB Instrument: voa6.i

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

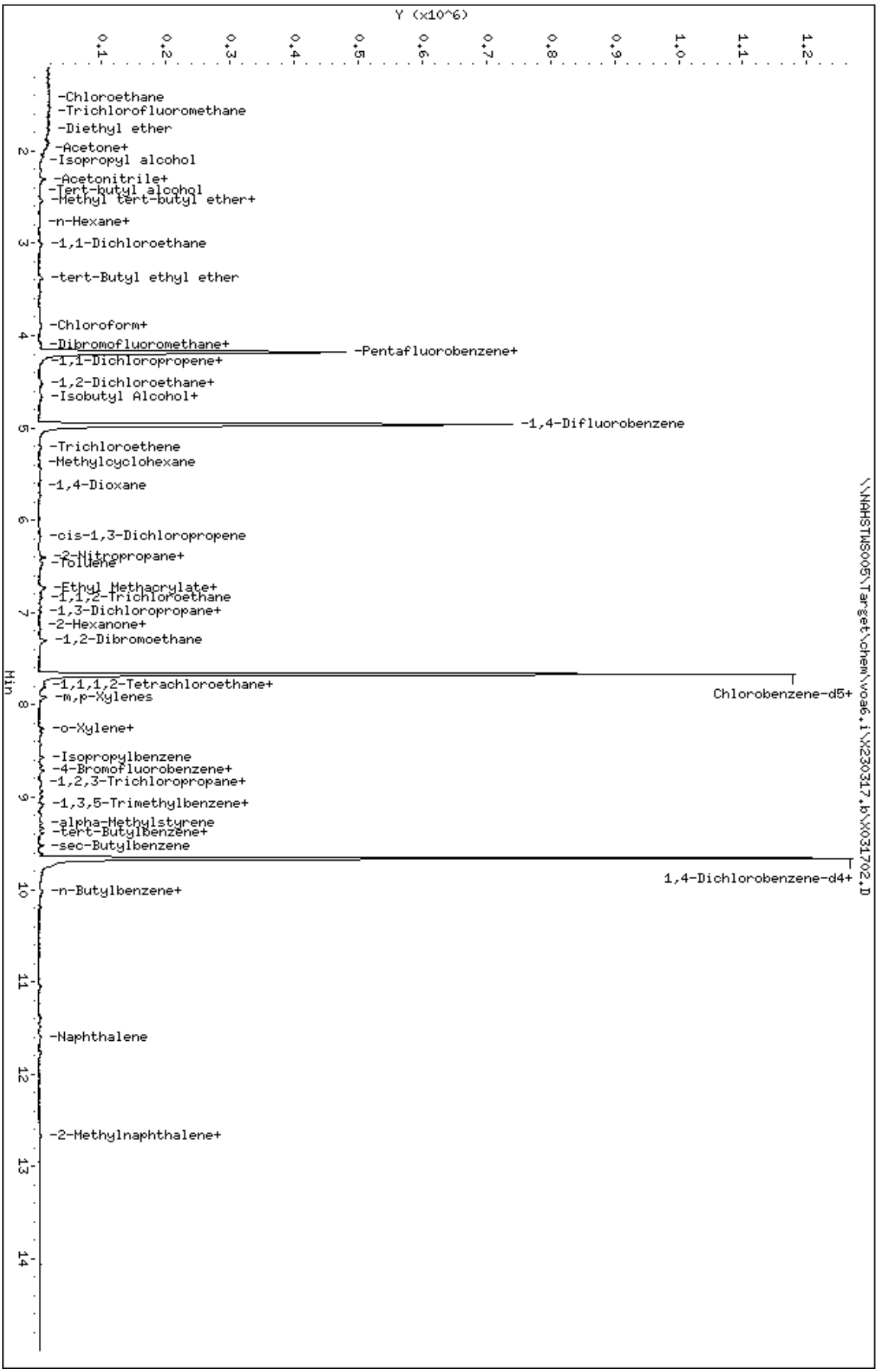
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.177	4.177	(1.000)	400786	50.0000	
	7 Chloroethane	64	1.422	1.422	(0.341)	10096	0.25000	4.50
	13 Acetonitrile	39	2.209	2.209	(0.529)	1322	2.50000	3.54(a)
	15 Iodomethane	142	2.018	2.018	(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.



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

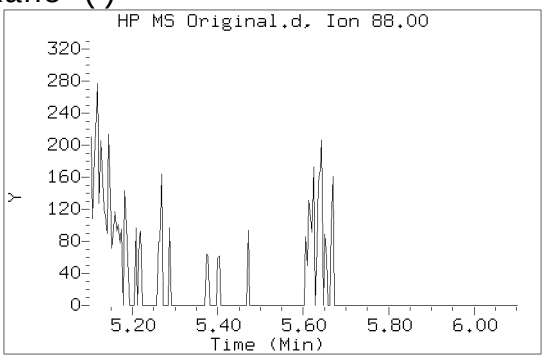
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031702.D
Inj Date : 17-MAR-2023 11:29
InstruID : voa6.i
LabSampID : VSTD000.25

1,4-Dioxane ()

Reason Code:

BEFORE

MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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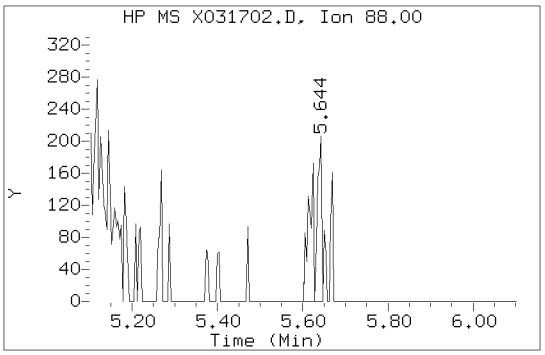
AREA
279
HEIGHT
207
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
58
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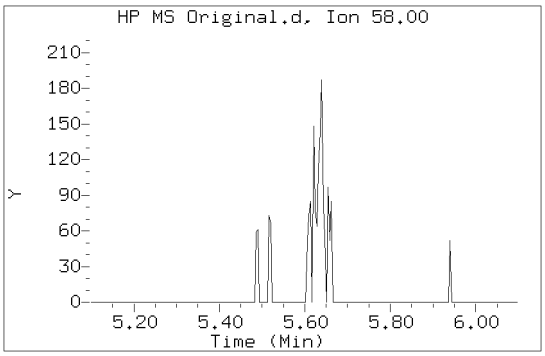

AFTER

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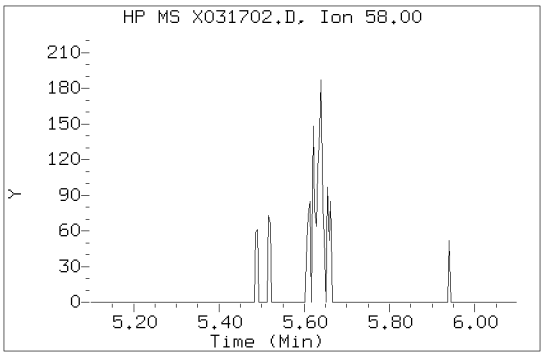


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D Page 1
Report Date: 30-Mar-2023 12:41

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)

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)

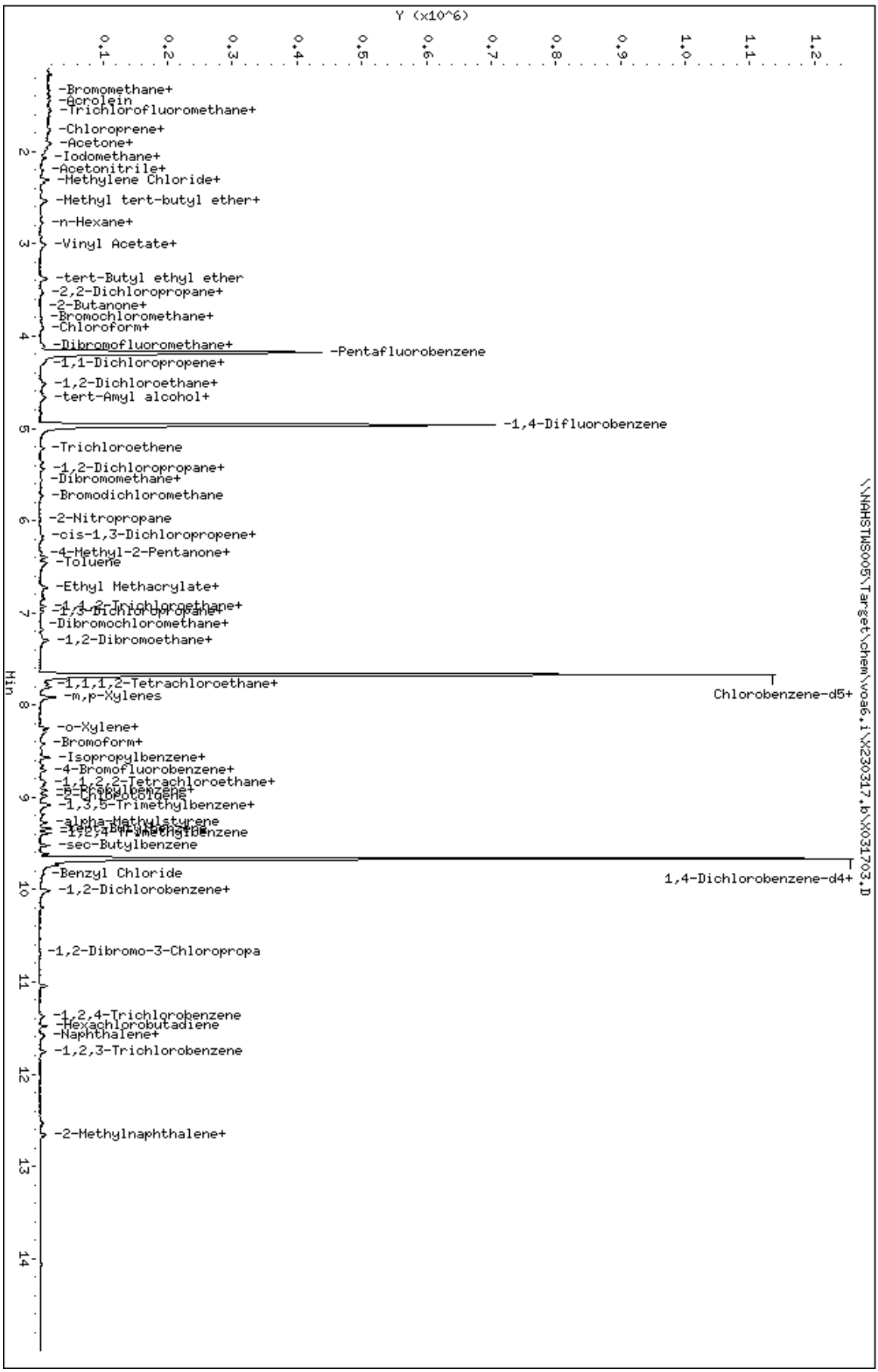
QC Flag Legend

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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Sample Info: VSTD000.5;VSTD000.5;1;2;
Purge Volume: 5.0
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Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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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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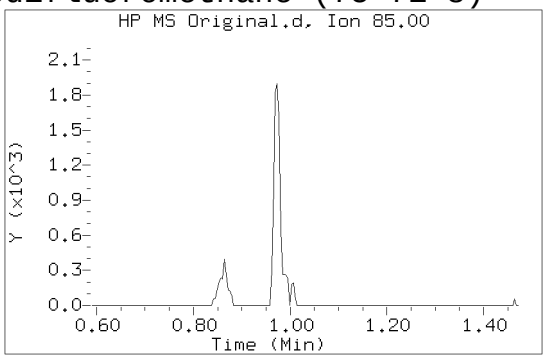
pham



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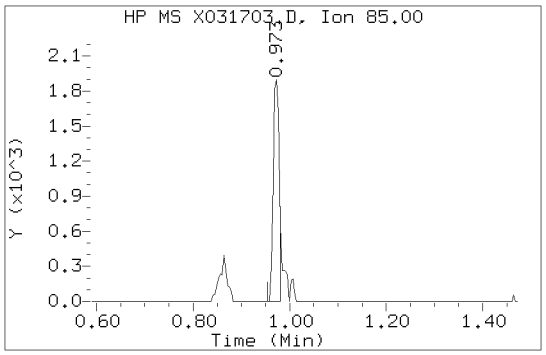

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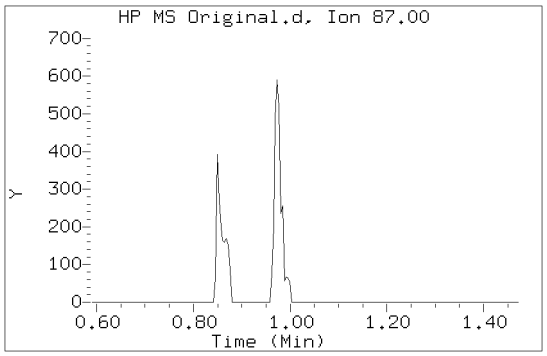

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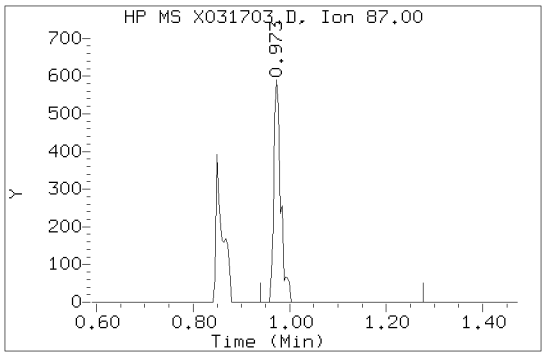

Chloromethane (74-87-3)

Reason Code:

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30-Mar-2023
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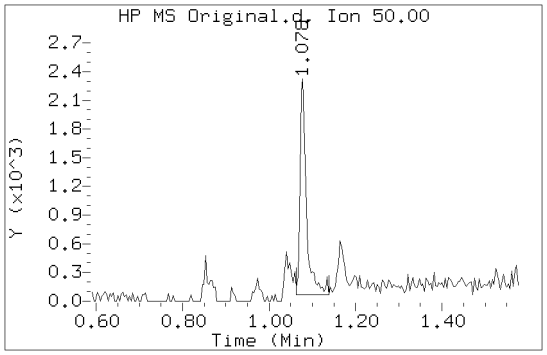

AFTER
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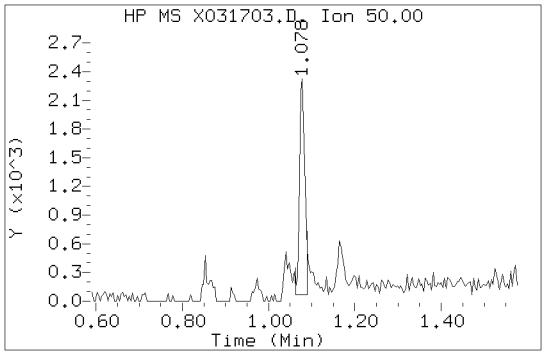

BEFORE
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12:33
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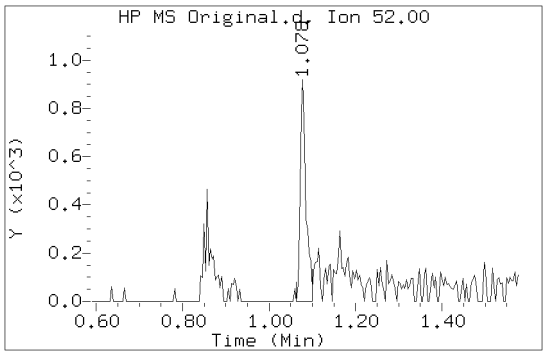

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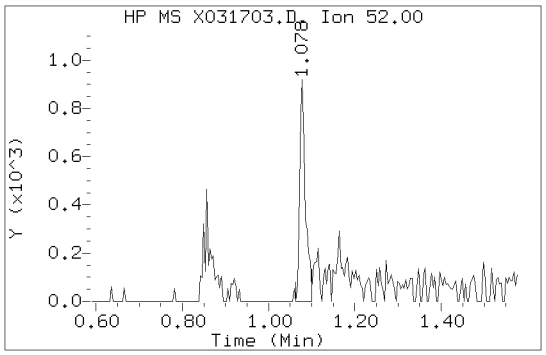

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Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Vinyl Chloride (75-01-4)

Reason Code:

BEFORE

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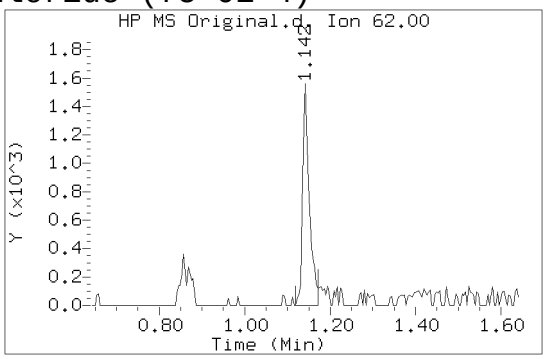
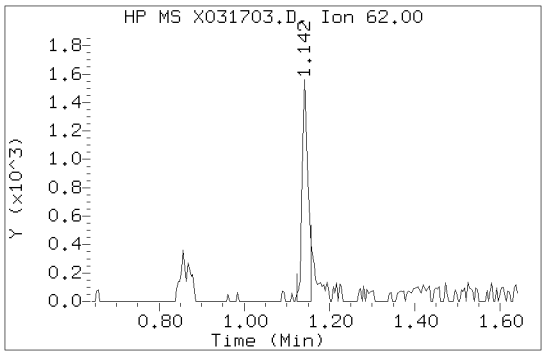
AREA
1767
HEIGHT
1561
30-Mar-2023
12:33
linh
pham



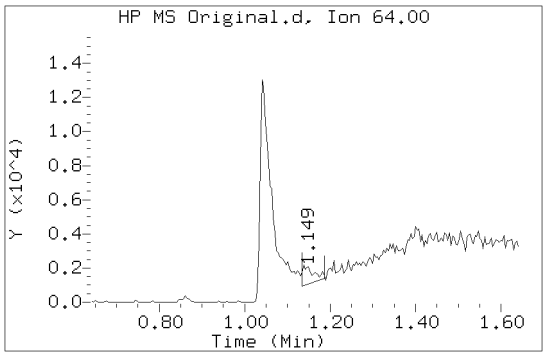
AFTER

MASS
62
AREA
1572
HEIGHT
1561
30-Mar-2023
12:41
linh
pham



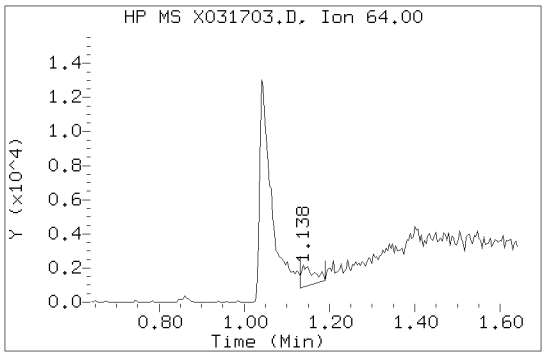
BEFORE

MASS
64
AREA
2020
HEIGHT
989
30-Mar-2023
12:33
linh
pham



AFTER

MASS
64
AREA
2509
HEIGHT
1287
30-Mar-2023
12:41
linh
pham

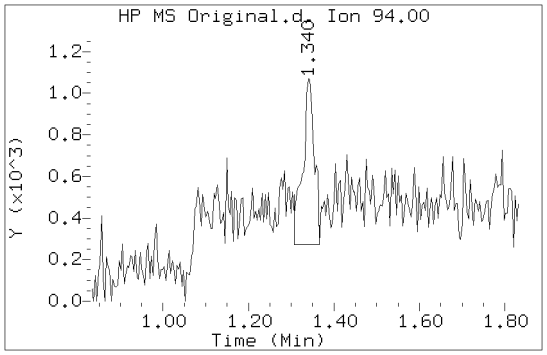


Bromomethane (74-83-9)

Reason Code:

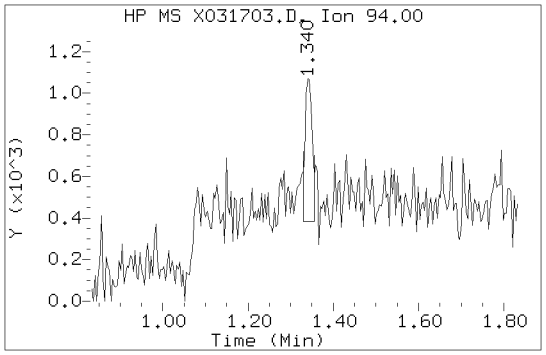
BEFORE

MASS
94
AREA
1545
HEIGHT
797
30-Mar-2023
12:33
linh
pham



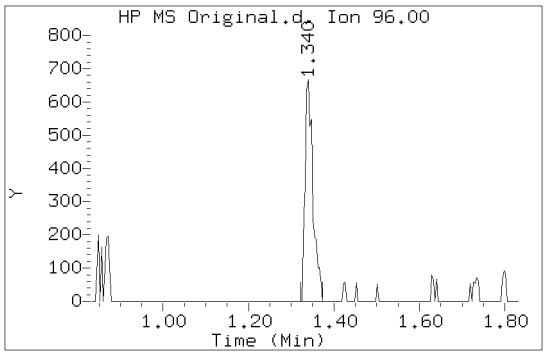
AFTER

MASS
94
AREA
833
HEIGHT
685
30-Mar-2023
12:41
linh
pham



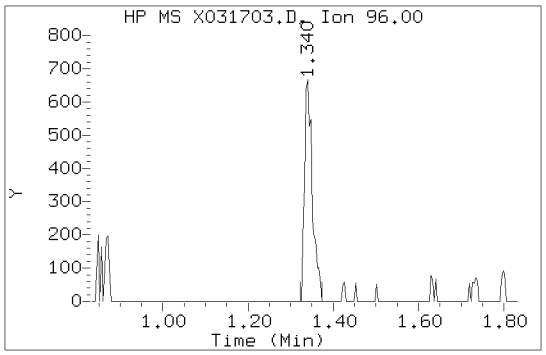
BEFORE

MASS
96
AREA
869
HEIGHT
667
30-Mar-2023
12:33
linh
pham



AFTER

MASS
96
AREA
869
HEIGHT
667
30-Mar-2023
12:41
linh
pham



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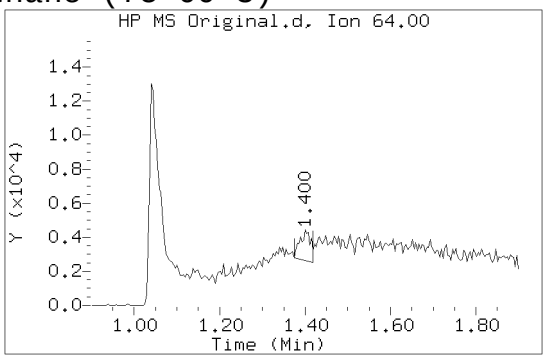
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

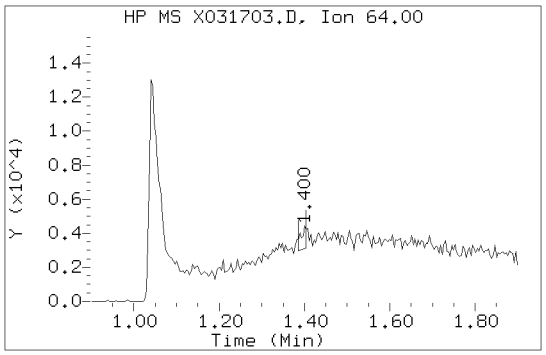
Chloroethane (75-00-3)

Reason Code:

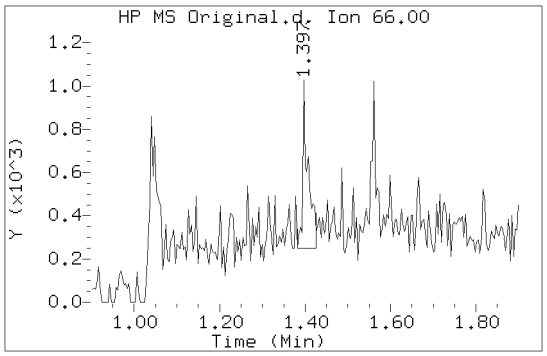
BEFORE
MASS
64
AREA
3174
HEIGHT
1811
30-Mar-2023
12:33
linh
pham



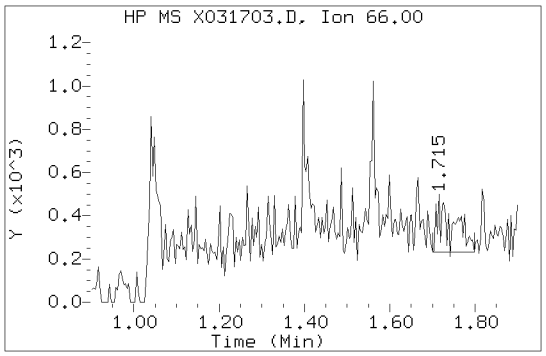
AFTER
MASS
64
AREA
1227
HEIGHT
1330
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
66
AREA
696
HEIGHT
778
30-Mar-2023
12:33
linh
pham



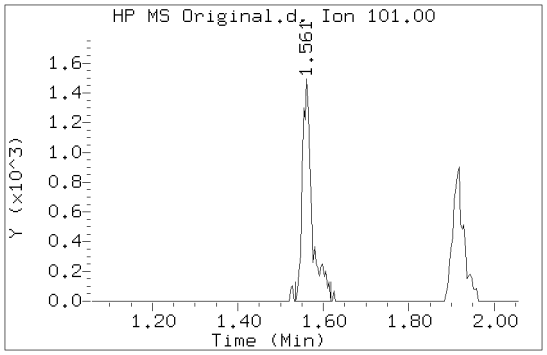
AFTER
MASS
66
AREA
666
HEIGHT
269
30-Mar-2023
12:41
linh
pham



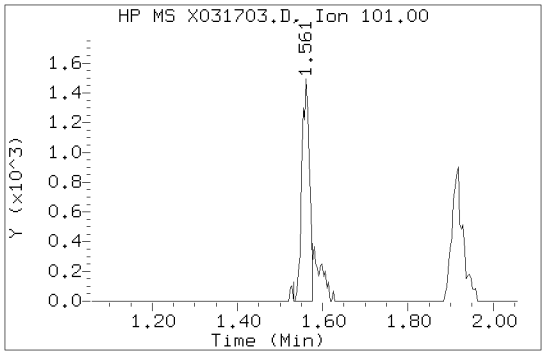
Trichlorofluoromethane (75-69-4)

Reason Code:

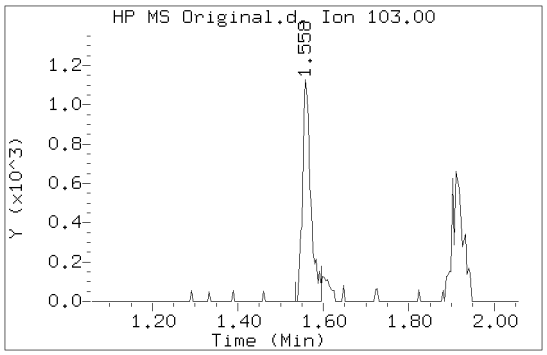
BEFORE
MASS
101
AREA
2389
HEIGHT
1494
30-Mar-2023
12:33
linh
pham



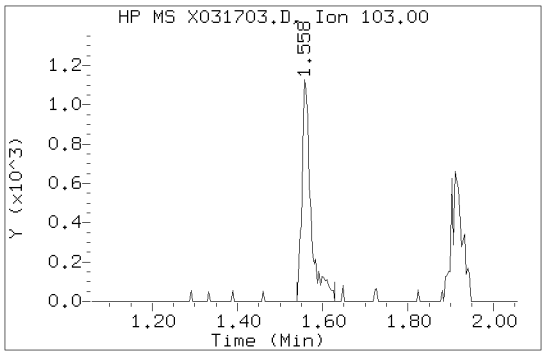
AFTER
MASS
101
AREA
1920
HEIGHT
1494
30-Mar-2023
12:41
linh
pham



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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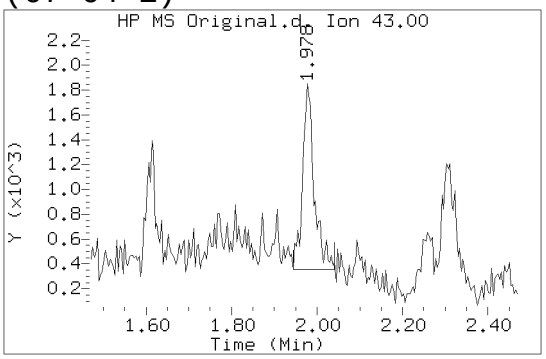
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

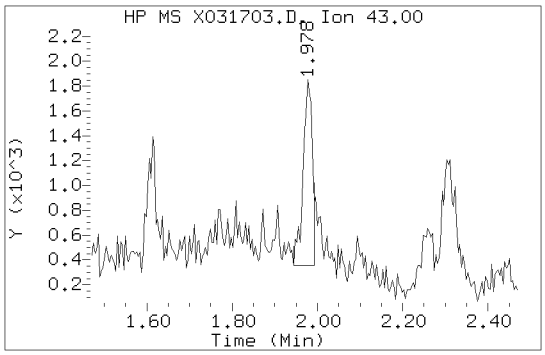
Acetone (67-64-1)

Reason Code:

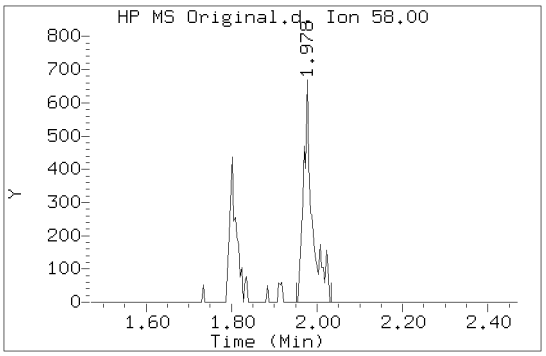
BEFORE
MASS
43
AREA
2850
HEIGHT
1495
30-Mar-2023
12:33
linh
pham



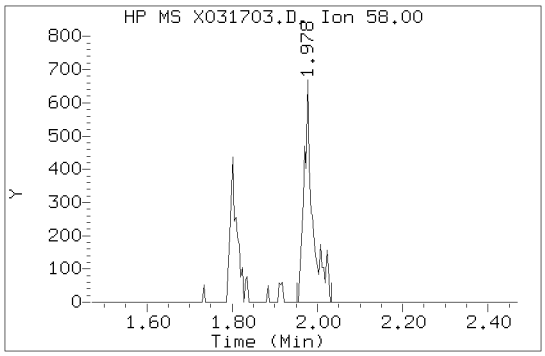
AFTER
MASS
43
AREA
2266
HEIGHT
1495
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
58
AREA
967
HEIGHT
669
30-Mar-2023
12:33
linh
pham



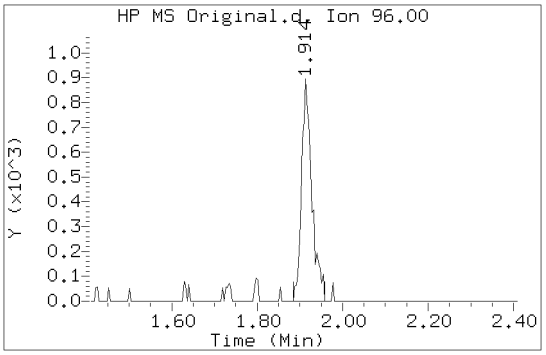
AFTER
MASS
58
AREA
967
HEIGHT
669
30-Mar-2023
12:41
linh
pham



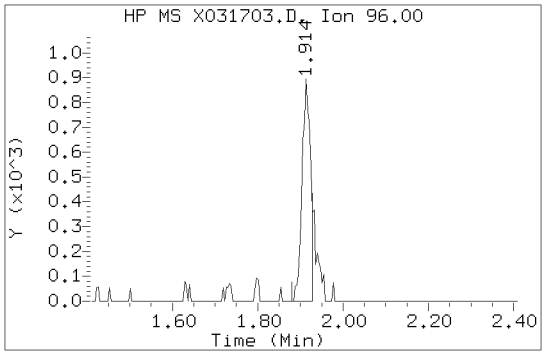
1,1-Dichloroethene (75-35-4)

Reason Code:

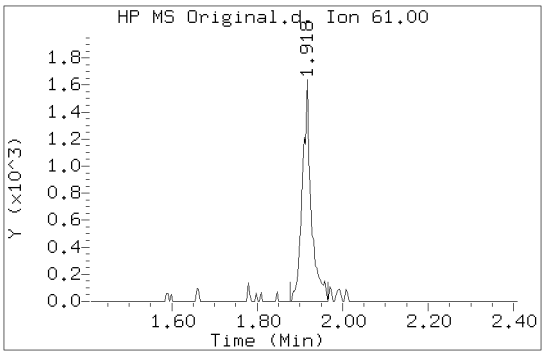
BEFORE
MASS
96
AREA
1510
HEIGHT
895
30-Mar-2023
12:33
linh
pham



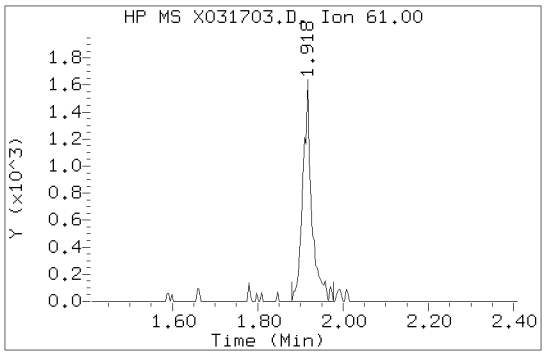
AFTER
MASS
96
AREA
1244
HEIGHT
895
30-Mar-2023
12:41
linh
pham



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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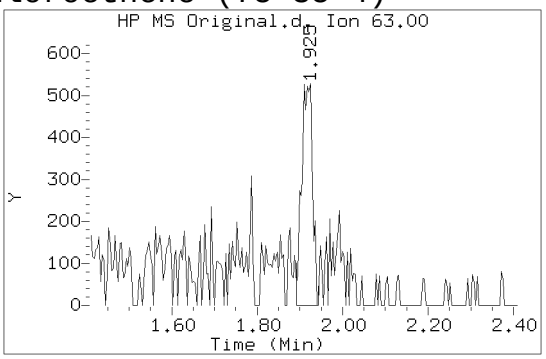
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,1-Dichloroethene (75-35-4)

Reason Code:

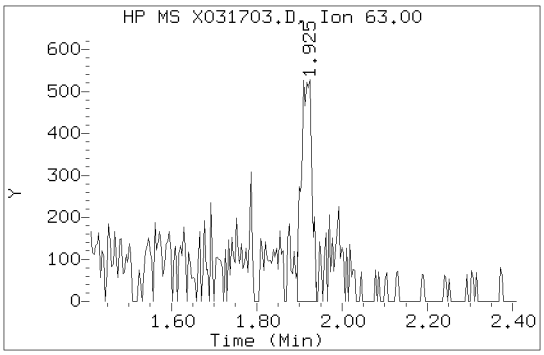
BEFORE

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

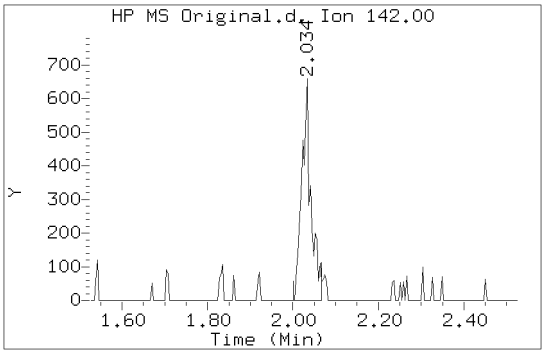


Iodomethane (74-88-4)

Reason Code:

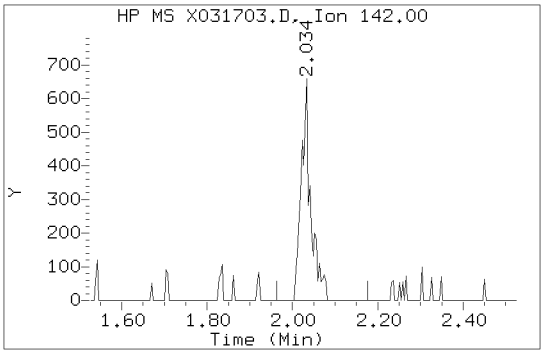
BEFORE

MASS
142
AREA
993
HEIGHT
659
30-Mar-2023
12:33
linh
pham



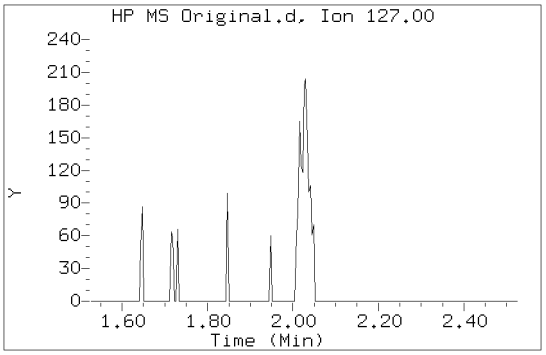
AFTER

MASS
142
AREA
1037
HEIGHT
659
30-Mar-2023
12:41
linh
pham



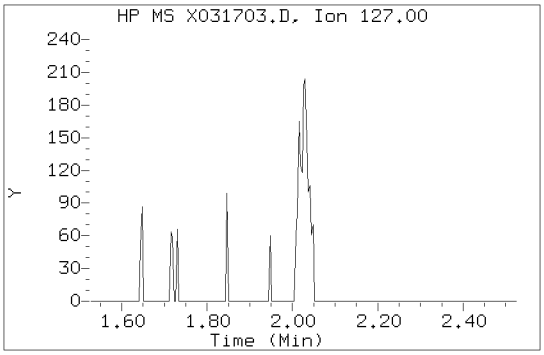
BEFORE

MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



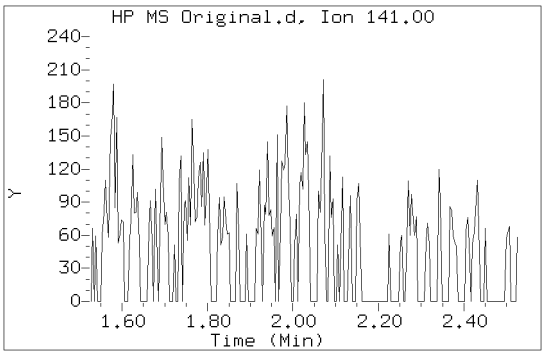
AFTER

MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



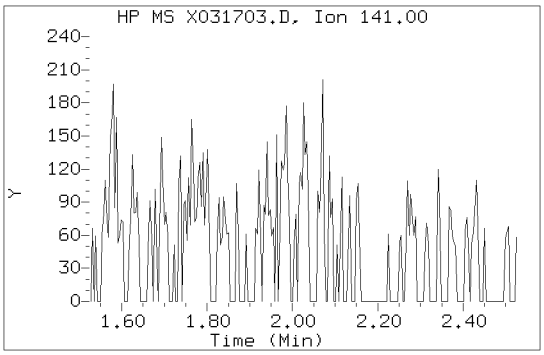
BEFORE

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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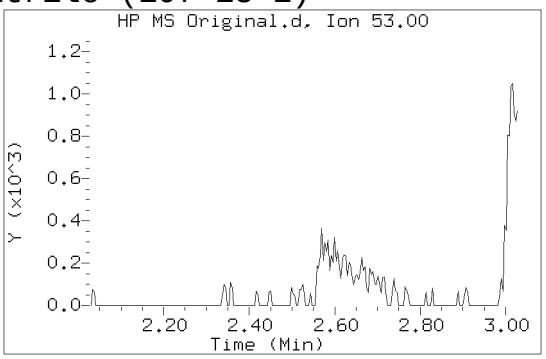
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

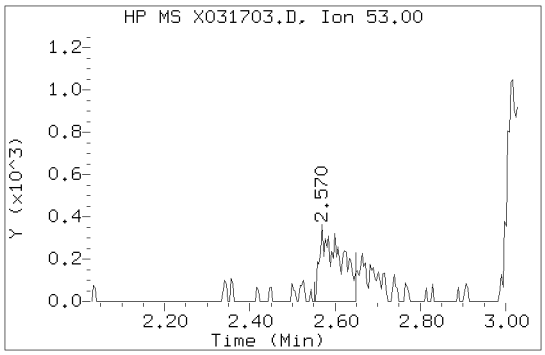
Acrylonitrile (107-13-1)

Reason Code:

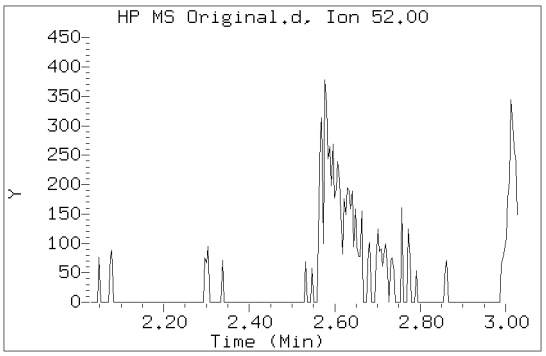
BEFORE
MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



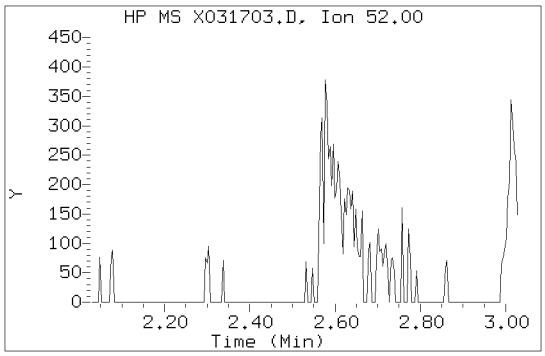
AFTER
MASS
53
AREA
1196
HEIGHT
364
30-Mar-2023
12:41
linh
pham



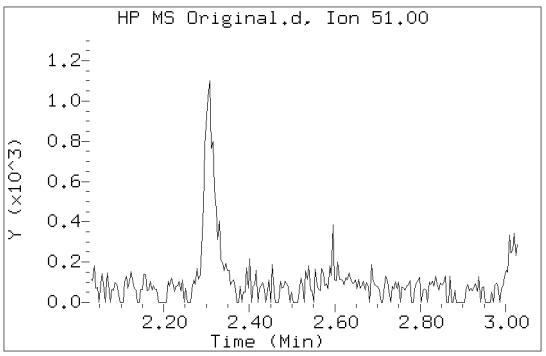
BEFORE
MASS
52
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



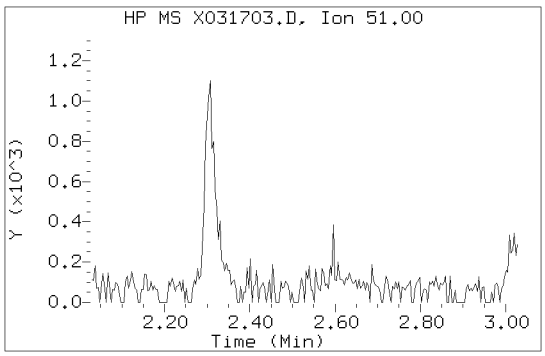
AFTER
MASS
52
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
51
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



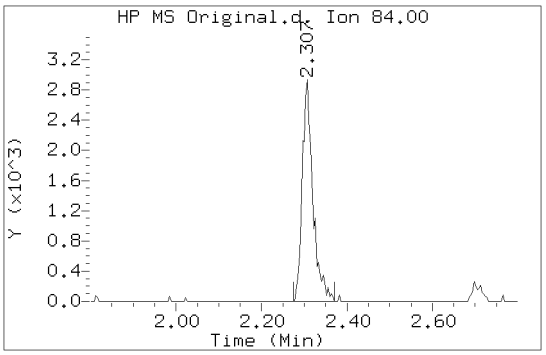
AFTER
MASS
51
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



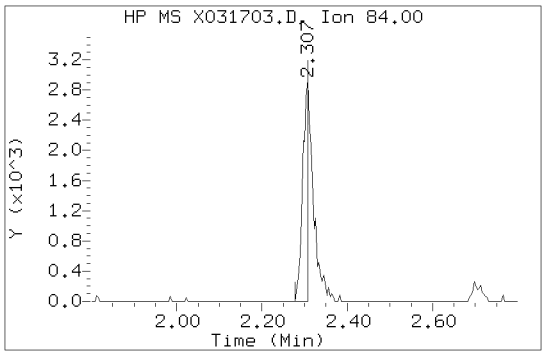
Methylene Chloride (75-09-2)

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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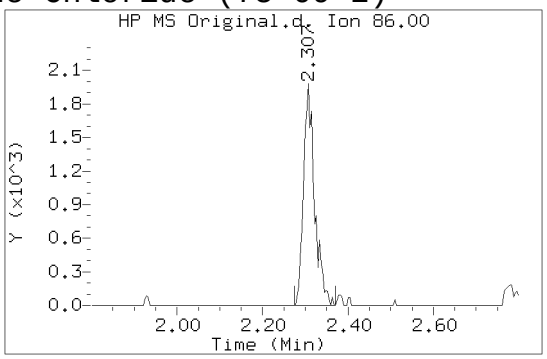
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methylene Chloride (75-09-2)

Reason Code:

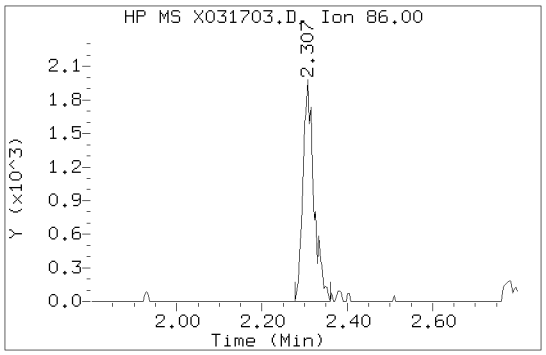
BEFORE

MASS
86
AREA
3619
HEIGHT
1981
30-Mar-2023
12:33
linh
pham



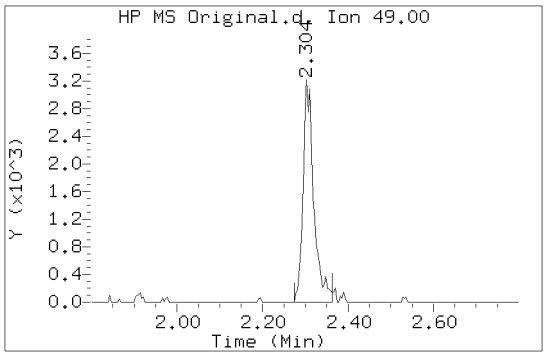
AFTER

MASS
86
AREA
3603
HEIGHT
1981
30-Mar-2023
12:41
linh
pham



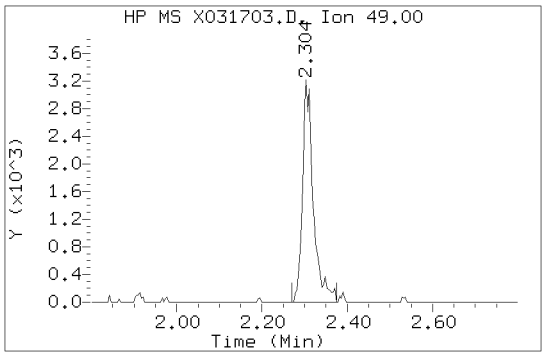
BEFORE

MASS
49
AREA
5693
HEIGHT
3215
30-Mar-2023
12:33
linh
pham



AFTER

MASS
49
AREA
5772
HEIGHT
3215
30-Mar-2023
12:41
linh
pham

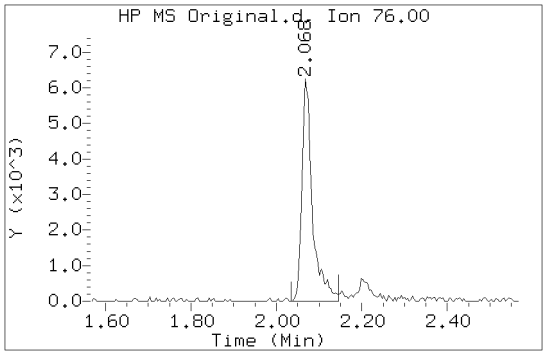


Carbon Disulfide (75-15-0)

Reason Code:

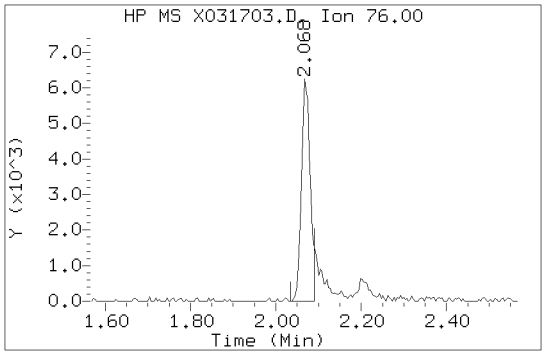
BEFORE

MASS
76
AREA
11053
HEIGHT
6252
30-Mar-2023
12:33
linh
pham



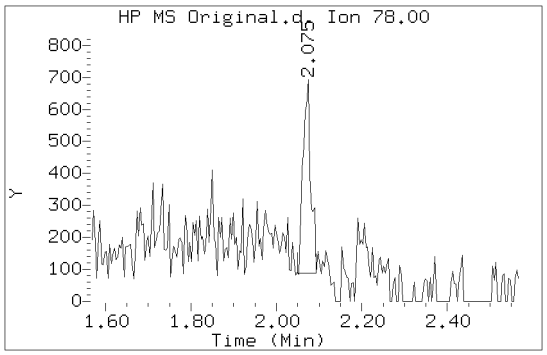
AFTER

MASS
76
AREA
9182
HEIGHT
6252
30-Mar-2023
12:41
linh
pham



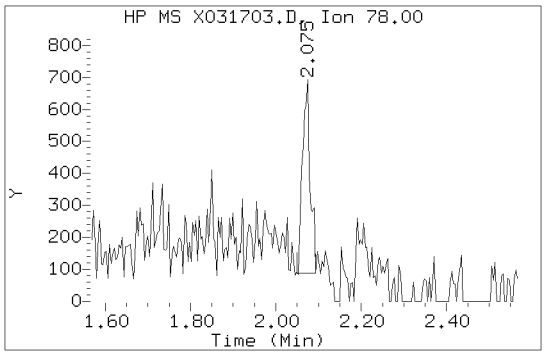
BEFORE

MASS
78
AREA
773
HEIGHT
605
30-Mar-2023
12:33
linh
pham



AFTER

MASS
78
AREA
773
HEIGHT
605
30-Mar-2023
12:41
linh
pham



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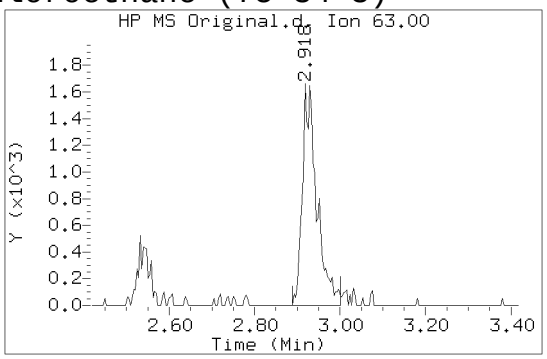
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,1-Dichloroethane (75-34-3)

Reason Code:

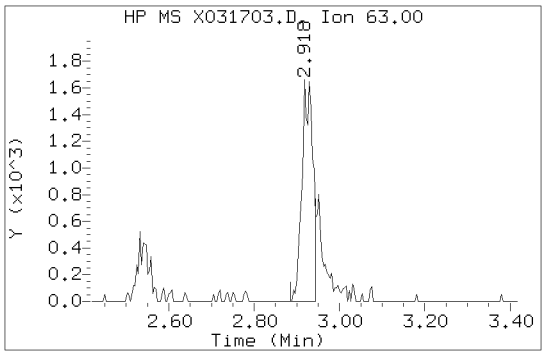
BEFORE

MASS
63
AREA
3888
HEIGHT
1662
30-Mar-2023
12:33
linh
pham



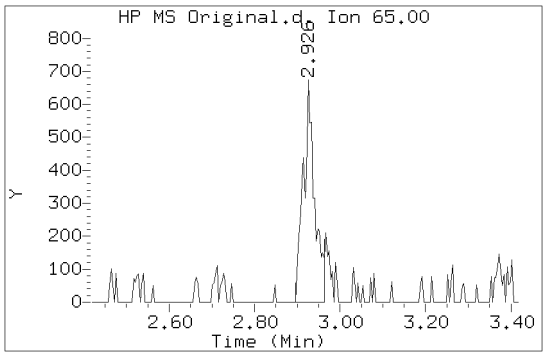
AFTER

MASS
63
AREA
2973
HEIGHT
1662
30-Mar-2023
12:41
linh
pham



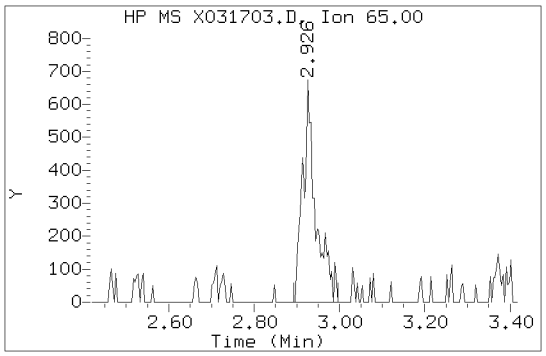
BEFORE

MASS
65
AREA
1248
HEIGHT
674
30-Mar-2023
12:33
linh
pham



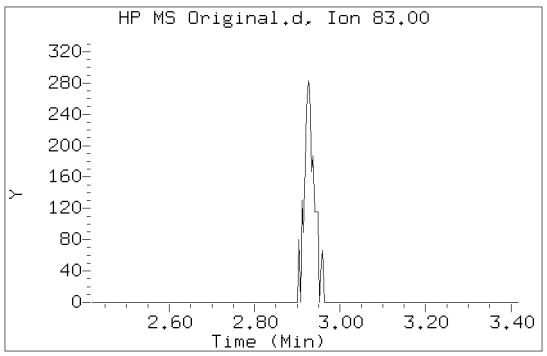
AFTER

MASS
65
AREA
1438
HEIGHT
674
30-Mar-2023
12:41
linh
pham



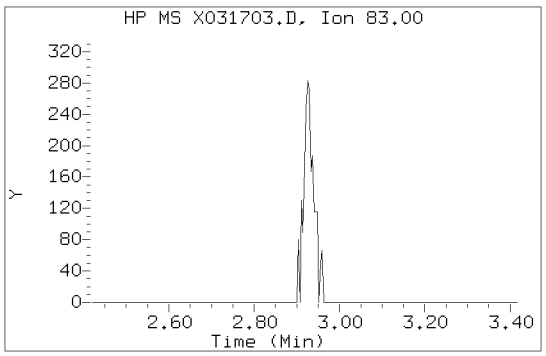
BEFORE

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

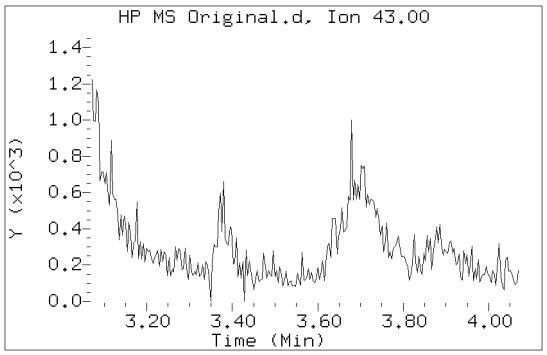


2-Butanone (78-93-3)

Reason Code:

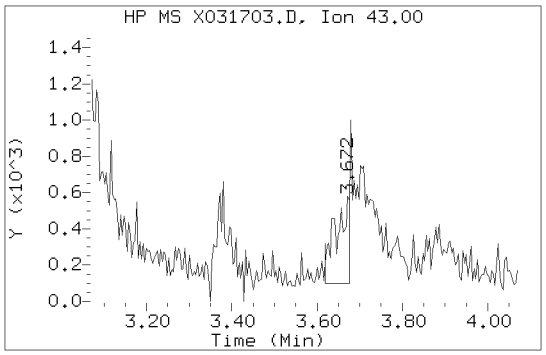
BEFORE

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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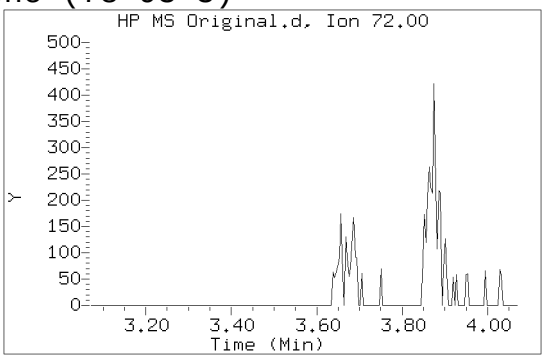
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

2-Butanone (78-93-3)

Reason Code:

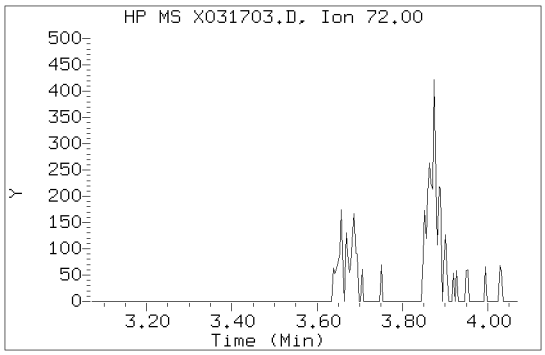
BEFORE

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

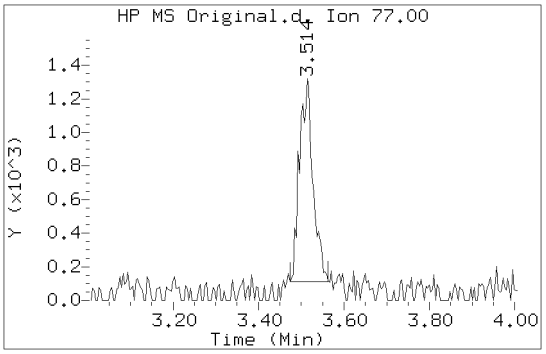


2,2-Dichloropropane (594-20-7)

Reason Code:

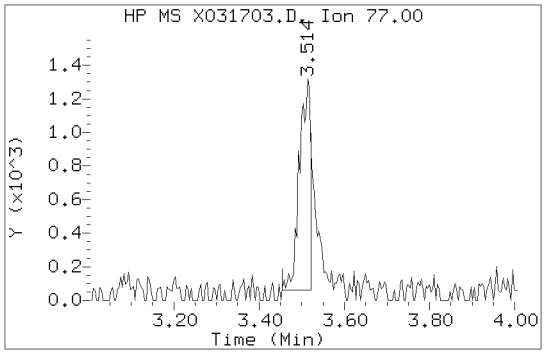
BEFORE

MASS
77
AREA
2693
HEIGHT
1211
30-Mar-2023
12:33
linh
pham



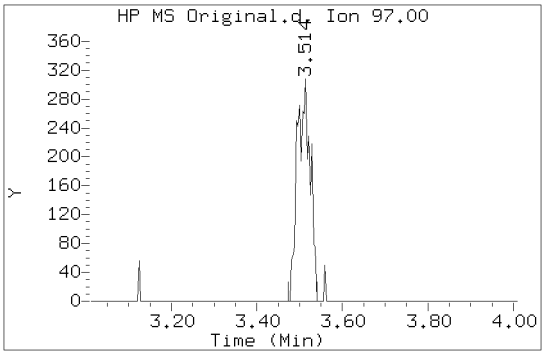
AFTER

MASS
77
AREA
2270
HEIGHT
1258
30-Mar-2023
12:41
linh
pham



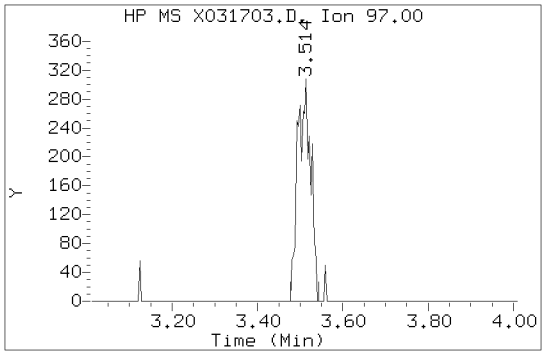
BEFORE

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

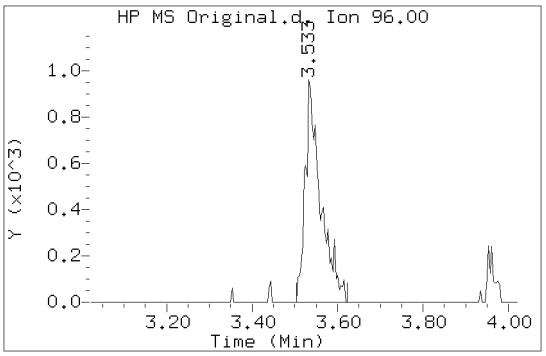


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

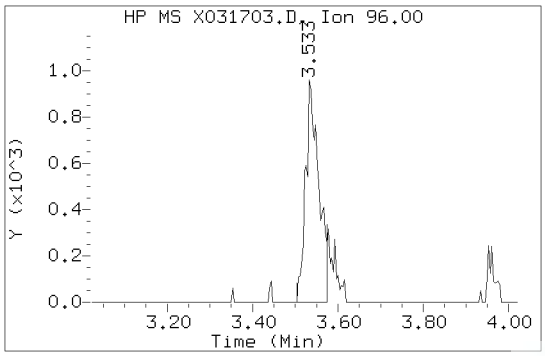
BEFORE

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



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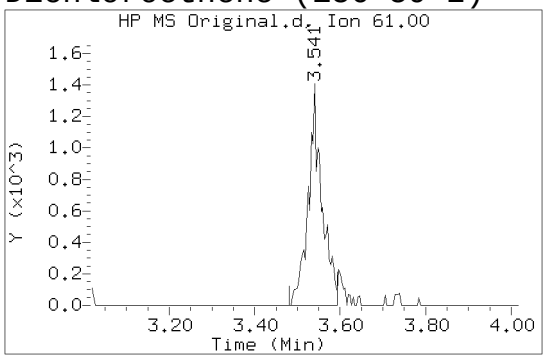
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

cis-1,2-Dichloroethene (156-59-2)

Reason Code:

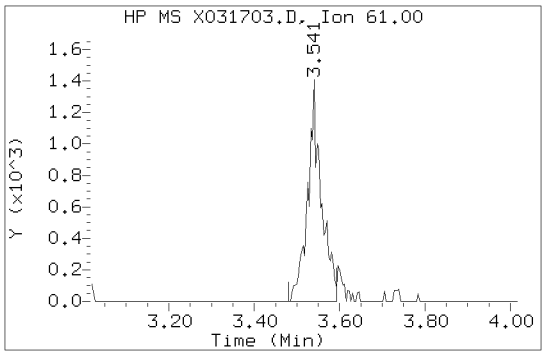
BEFORE

MASS
61
AREA
3124
HEIGHT
1408
30-Mar-2023
12:33
linh
pham



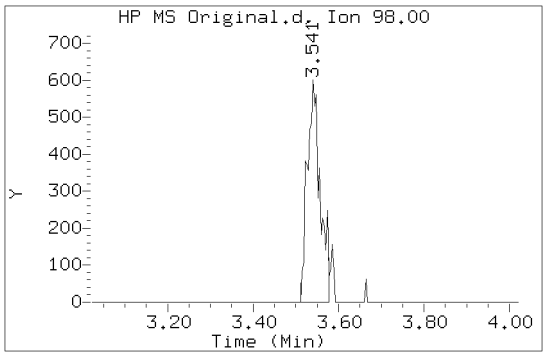
AFTER

MASS
61
AREA
3124
HEIGHT
1408
30-Mar-2023
12:41
linh
pham



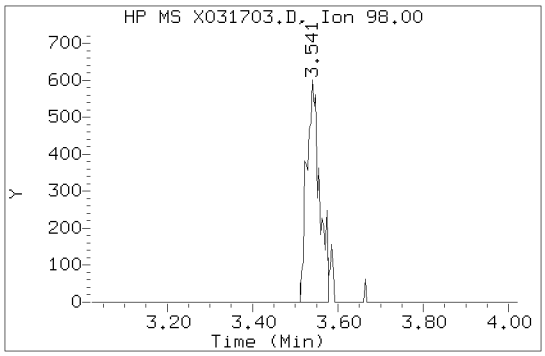
BEFORE

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

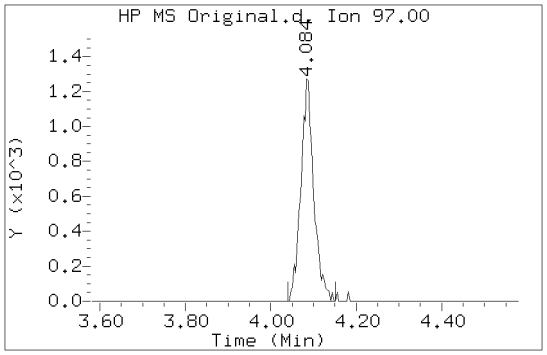


1,1,1-Trichloroethane (71-55-6)

Reason Code:

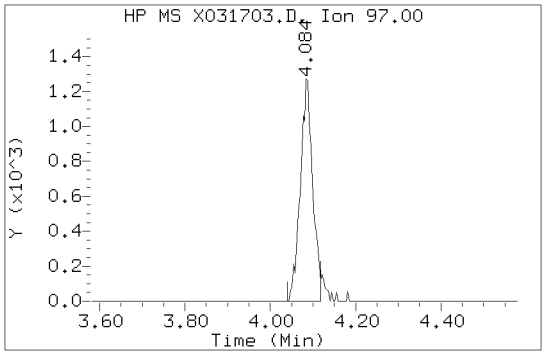
BEFORE

MASS
97
AREA
2725
HEIGHT
1272
30-Mar-2023
12:33
linh
pham



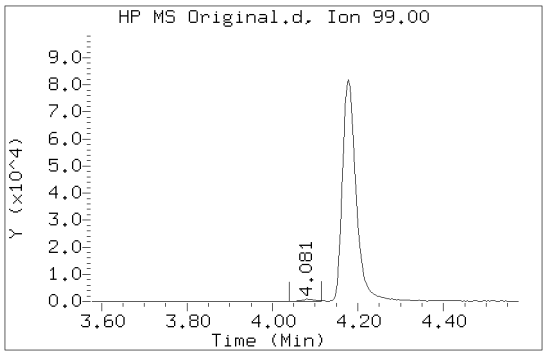
AFTER

MASS
97
AREA
2607
HEIGHT
1272
30-Mar-2023
12:41
linh
pham



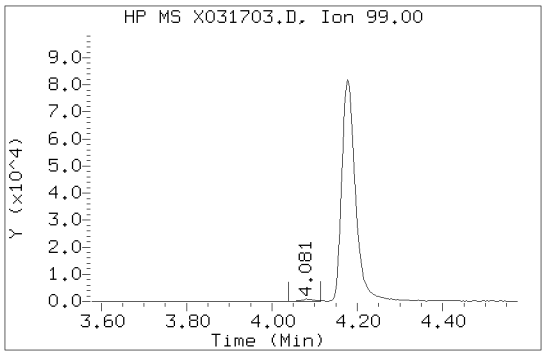
BEFORE

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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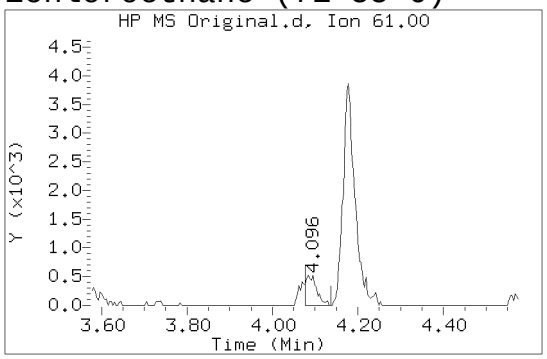
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,1,1-Trichloroethane (71-55-6)

Reason Code:

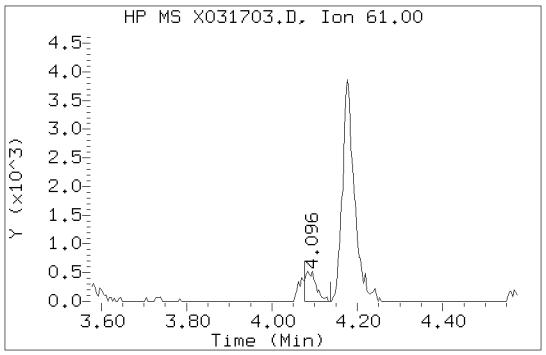
BEFORE

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

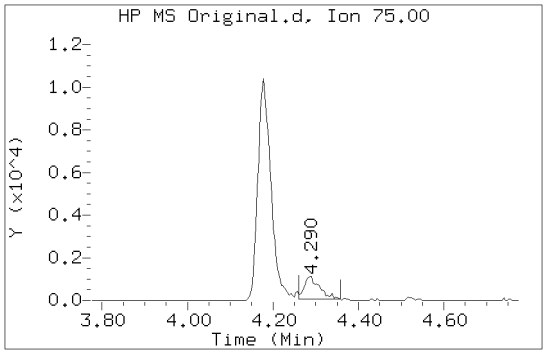


1,1-Dichloropropene (563-58-6)

Reason Code:

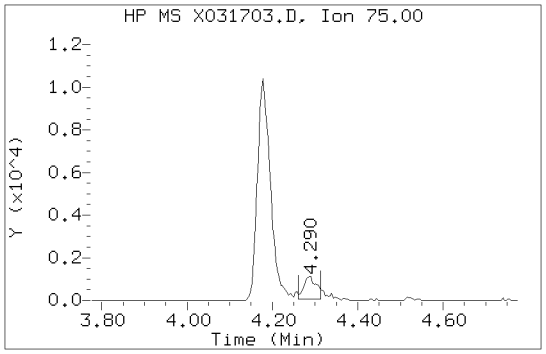
BEFORE

MASS
75
AREA
2621
HEIGHT
1062
30-Mar-2023
12:33
linh
pham



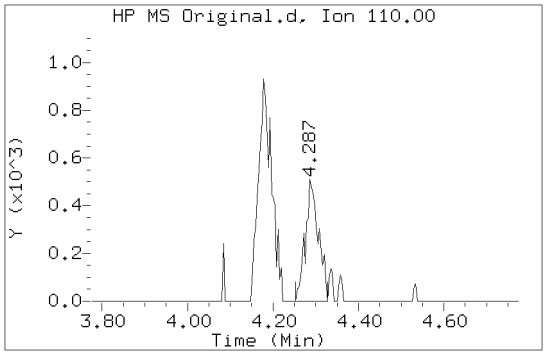
AFTER

MASS
75
AREA
2227
HEIGHT
1062
30-Mar-2023
12:41
linh
pham



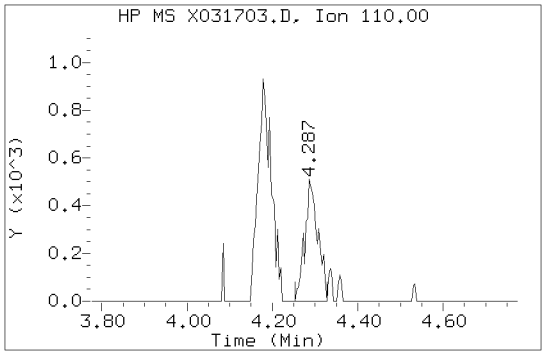
BEFORE

MASS
110
AREA
1088
HEIGHT
511
30-Mar-2023
12:33
linh
pham



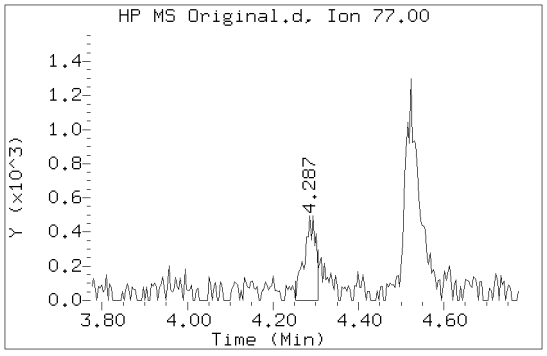
AFTER

MASS
110
AREA
1088
HEIGHT
511
30-Mar-2023
12:41
linh
pham



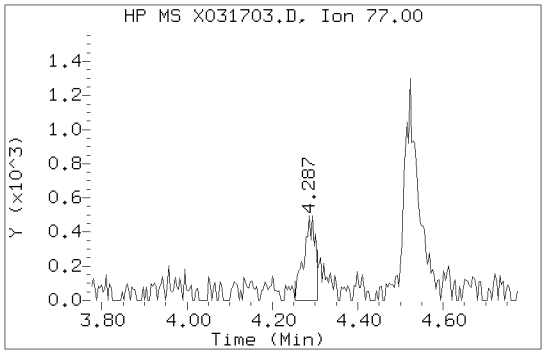
BEFORE

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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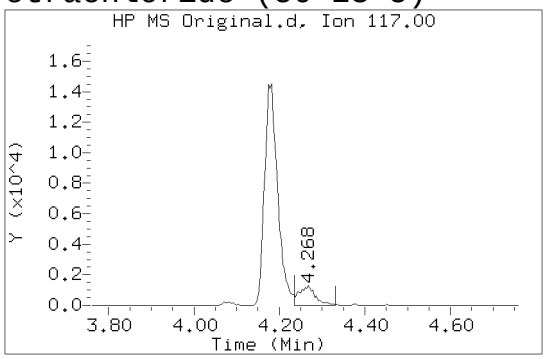
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Carbon Tetrachloride (56-23-5)

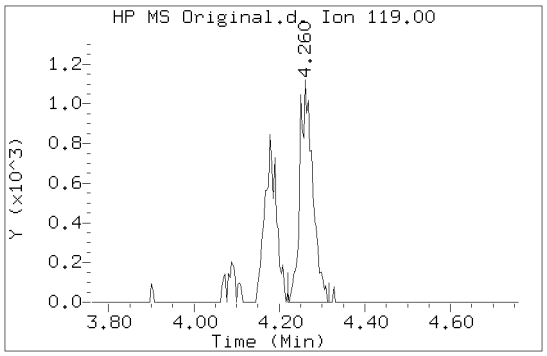
BEFORE

MASS
117
AREA
3507
HEIGHT
1289
30-Mar-2023
12:33
linh
pham



BEFORE

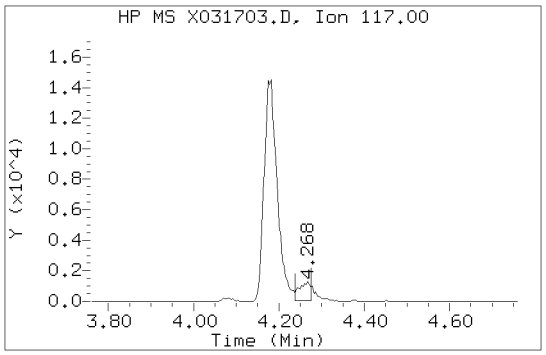
MASS
119
AREA
2388
HEIGHT
1121
30-Mar-2023
12:33
linh
pham



Reason Code:

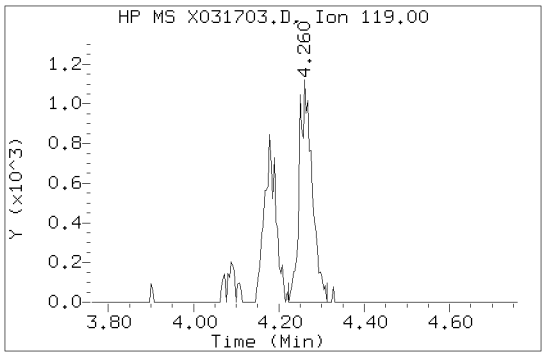
AFTER

MASS
117
AREA
2318
HEIGHT
1241
30-Mar-2023
12:41
linh
pham



AFTER

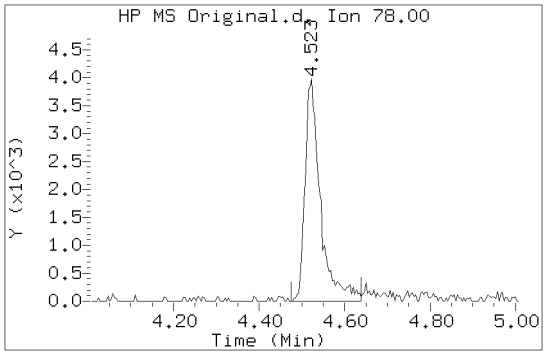
MASS
119
AREA
2377
HEIGHT
1121
30-Mar-2023
12:41
linh
pham



Benzene (71-43-2)

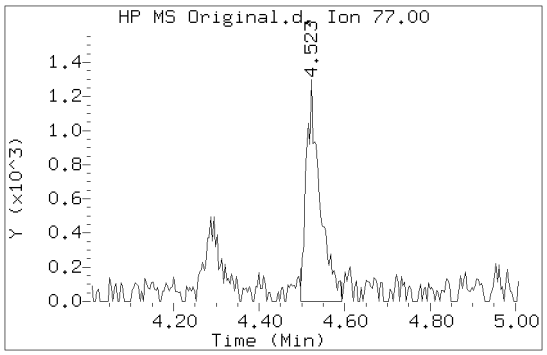
BEFORE

MASS
78
AREA
10052
HEIGHT
3980
30-Mar-2023
12:33
linh
pham



BEFORE

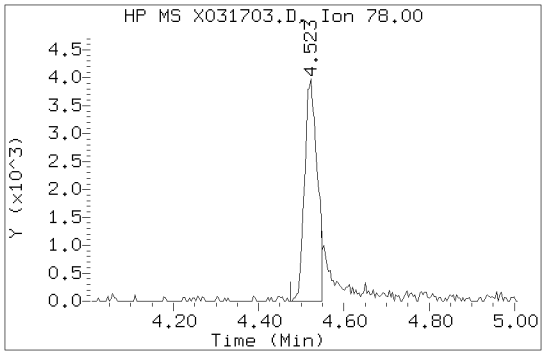
MASS
77
AREA
2911
HEIGHT
1298
30-Mar-2023
12:33
linh
pham



Reason Code:

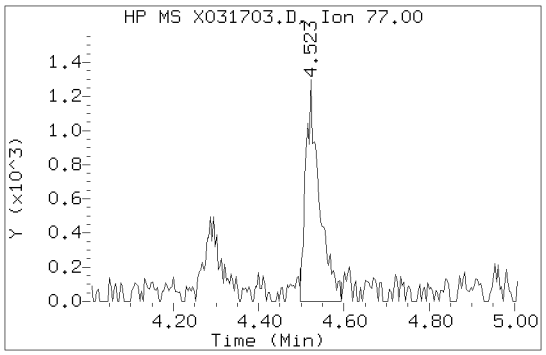
AFTER

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



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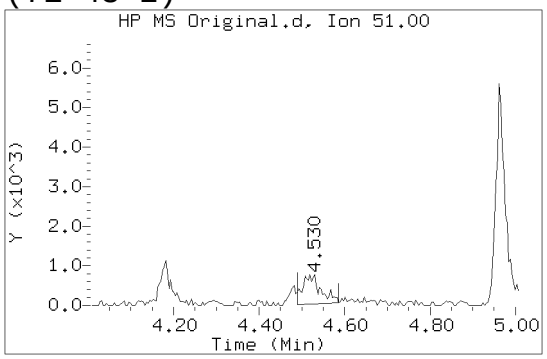
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Benzene (71-43-2)

Reason Code:

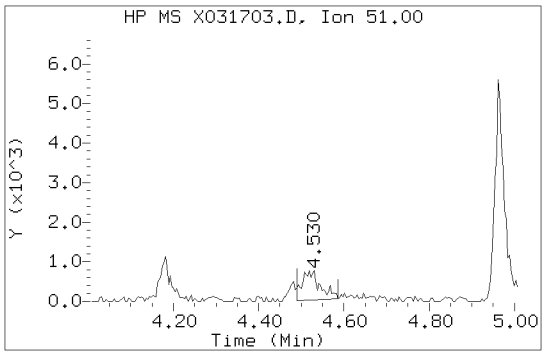
BEFORE

MASS
51
AREA
2203
HEIGHT
738
30-Mar-2023
12:33
linh
pham



AFTER

MASS
51
AREA
2203
HEIGHT
738
30-Mar-2023
12:41
linh
pham

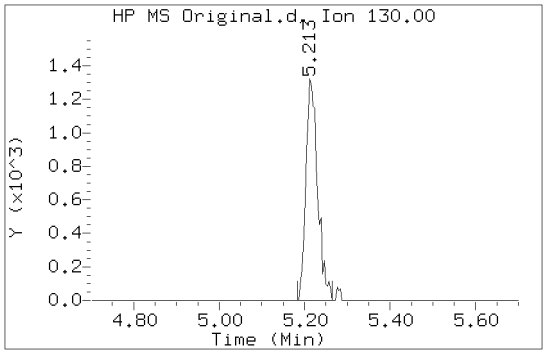


Trichloroethene (79-01-6)

Reason Code:

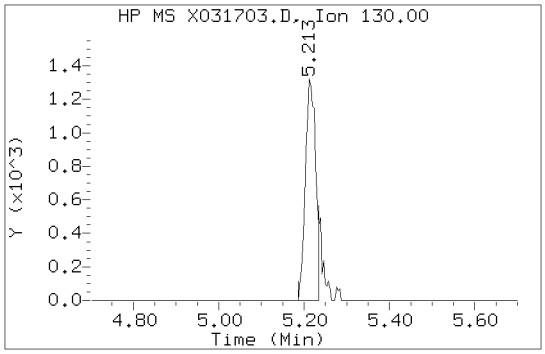
BEFORE

MASS
130
AREA
2536
HEIGHT
1323
30-Mar-2023
12:33
linh
pham



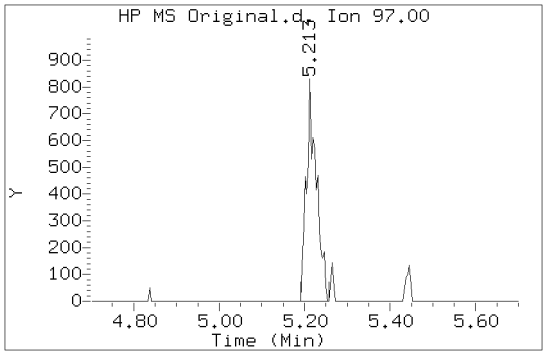
AFTER

MASS
130
AREA
2257
HEIGHT
1323
30-Mar-2023
12:41
linh
pham



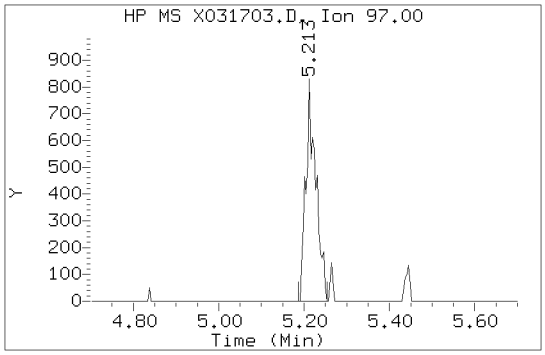
BEFORE

MASS
97
AREA
1364
HEIGHT
830
30-Mar-2023
12:33
linh
pham



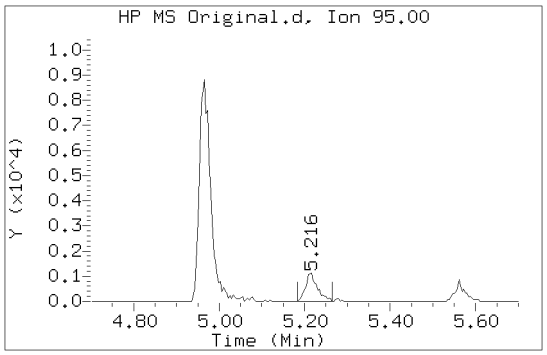
AFTER

MASS
97
AREA
1364
HEIGHT
830
30-Mar-2023
12:41
linh
pham



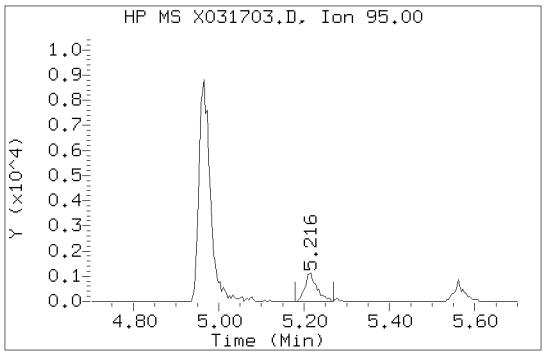
BEFORE

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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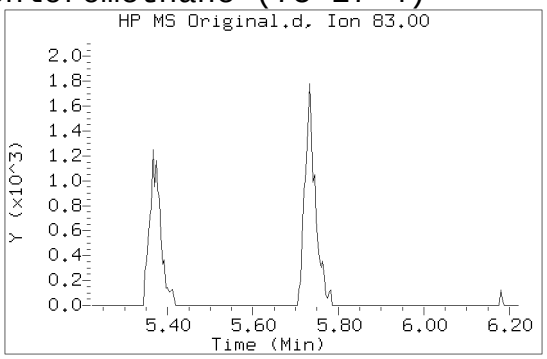
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

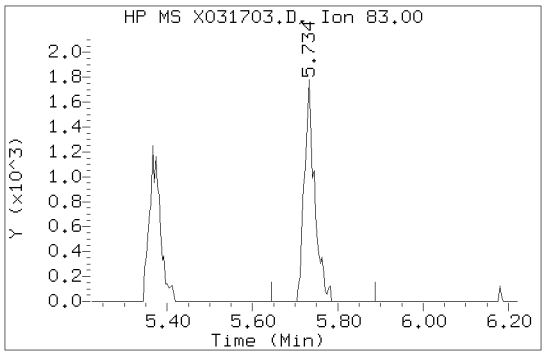
Bromodichloromethane (75-27-4)

Reason Code:

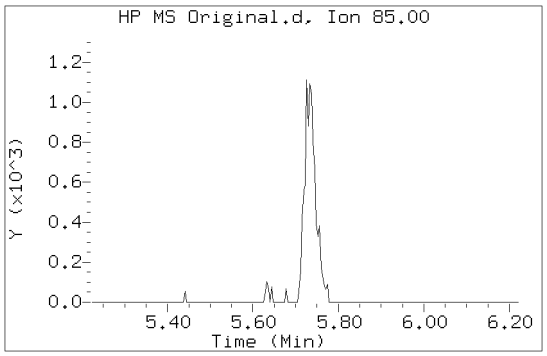
BEFORE
MASS
83
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



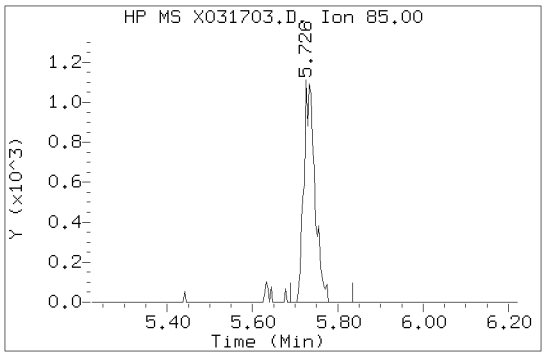
AFTER
MASS
83
AREA
3021
HEIGHT
1780
30-Mar-2023
12:41
linh
pham



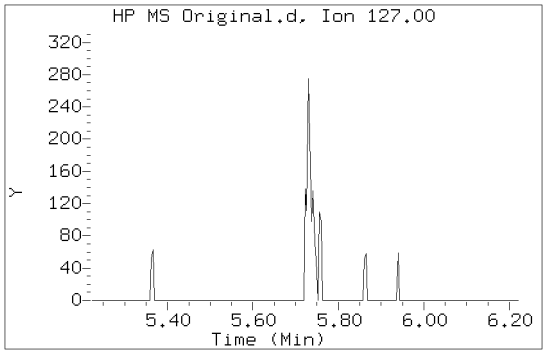
BEFORE
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



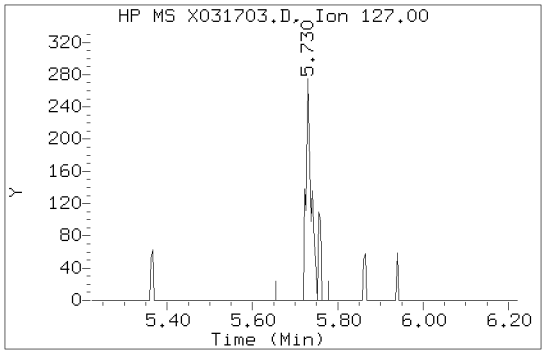
AFTER
MASS
85
AREA
2028
HEIGHT
1112
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



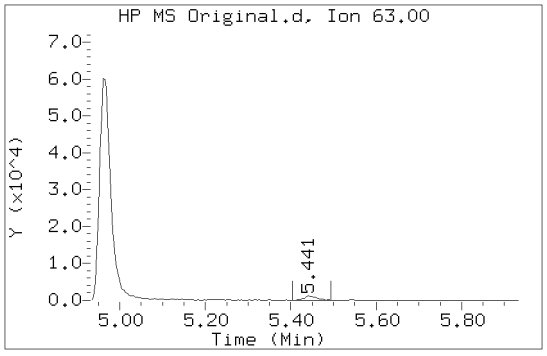
AFTER
MASS
127
AREA
290
HEIGHT
275
30-Mar-2023
12:41
linh
pham



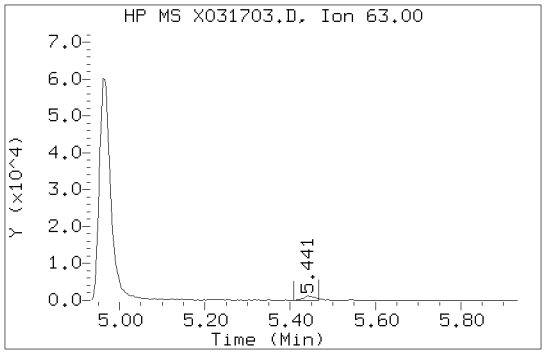
1,2-Dichloropropane (78-87-5)

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



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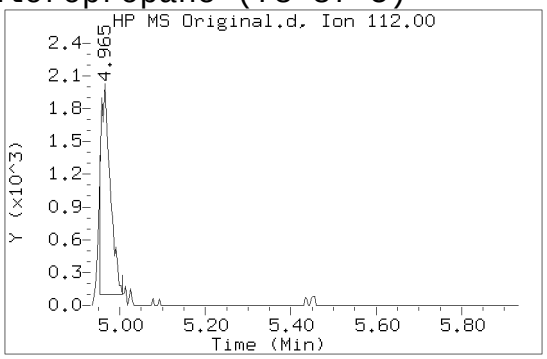
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichloropropane (78-87-5)

Reason Code:

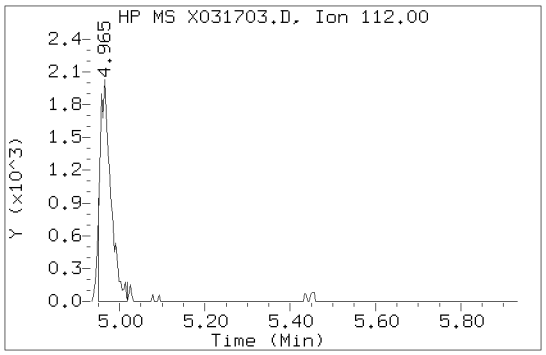
BEFORE

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

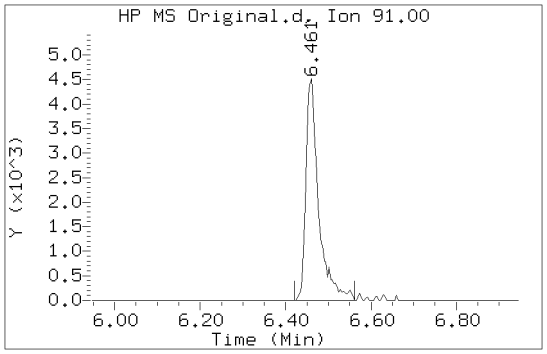


Toluene (108-88-3)

Reason Code:

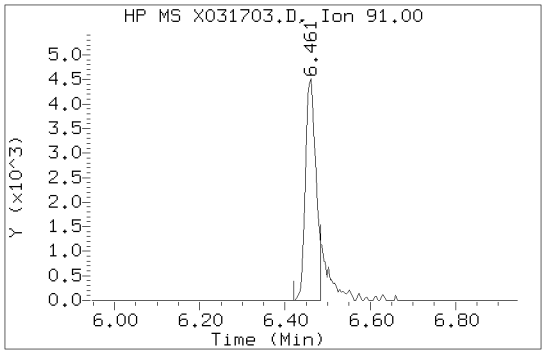
BEFORE

MASS
91
AREA
9464
HEIGHT
4516
30-Mar-2023
12:33
linh
pham



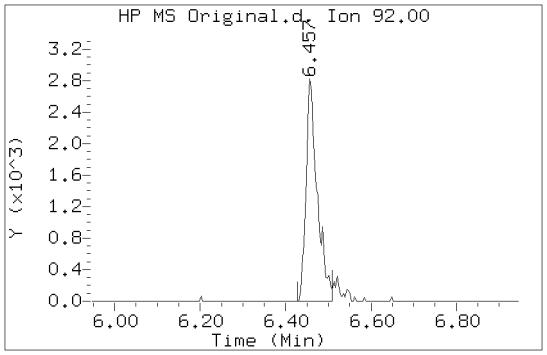
AFTER

MASS
91
AREA
7835
HEIGHT
4516
30-Mar-2023
12:41
linh
pham



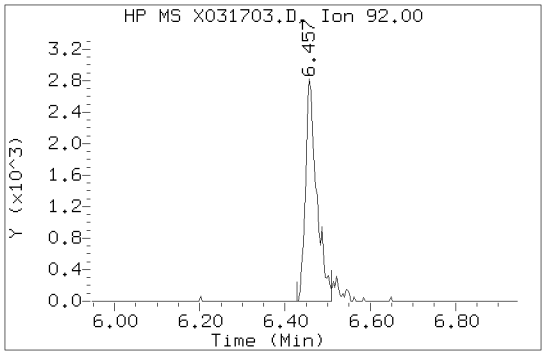
BEFORE

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

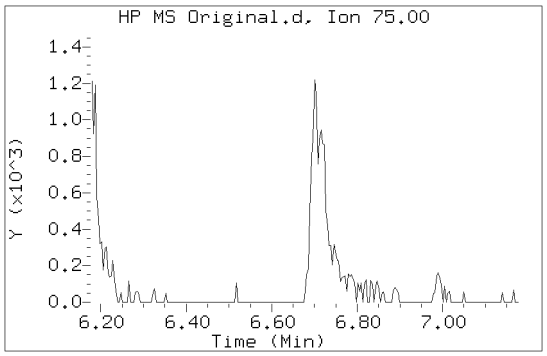


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

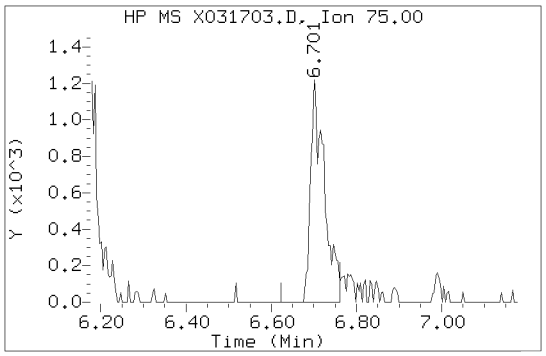
BEFORE

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



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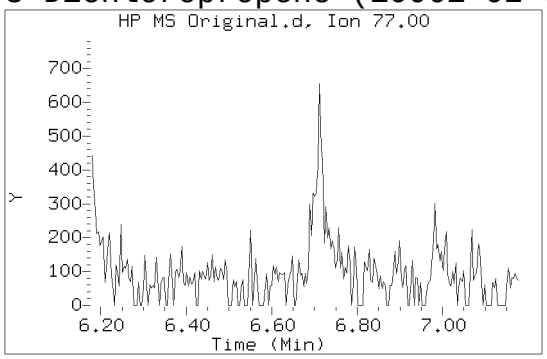
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

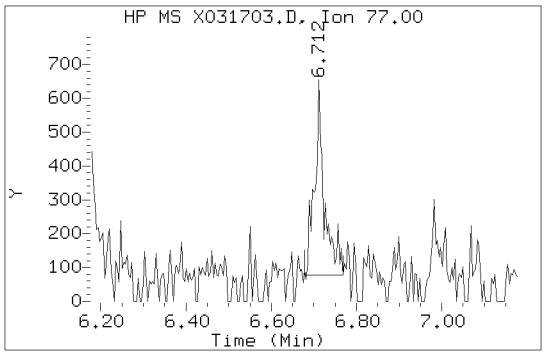
BEFORE

MASS
77
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



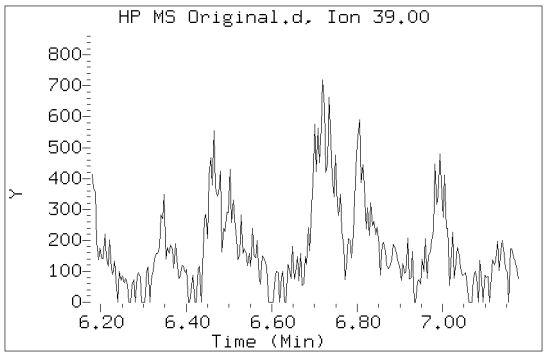
AFTER

MASS
77
AREA
910
HEIGHT
578
30-Mar-2023
12:41
linh
pham



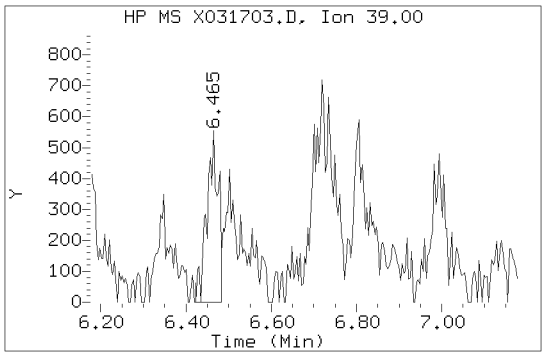
BEFORE

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

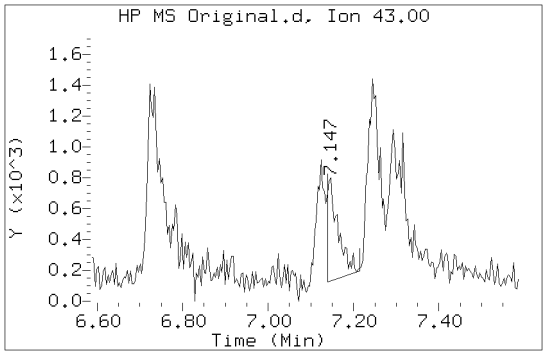


2-Hexanone (591-78-6)

Reason Code:

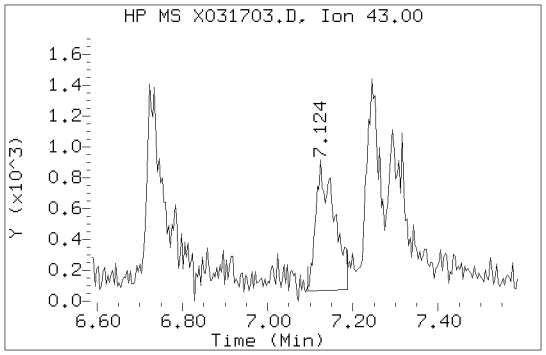
BEFORE

MASS
43
AREA
1168
HEIGHT
670
30-Mar-2023
12:33
linh
pham



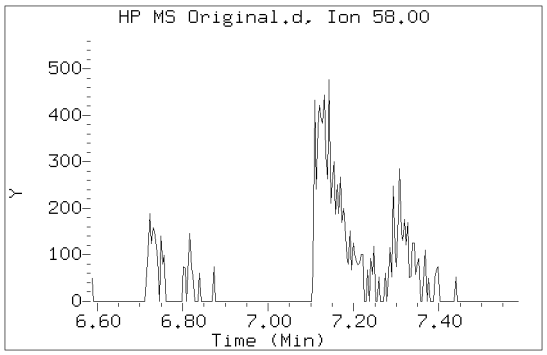
AFTER

MASS
43
AREA
2519
HEIGHT
845
30-Mar-2023
12:41
linh
pham



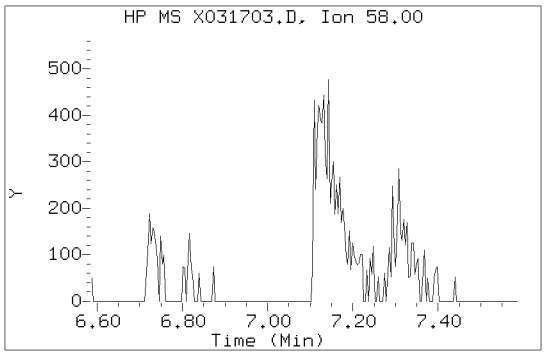
BEFORE

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



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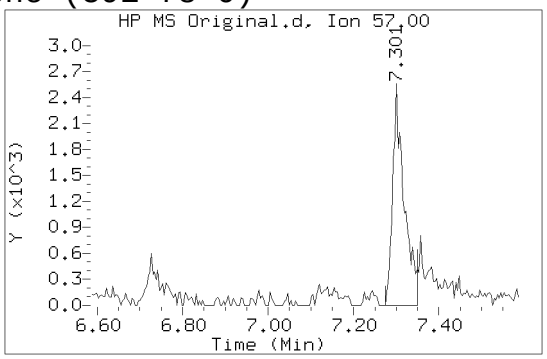
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

2-Hexanone (591-78-6)

Reason Code:

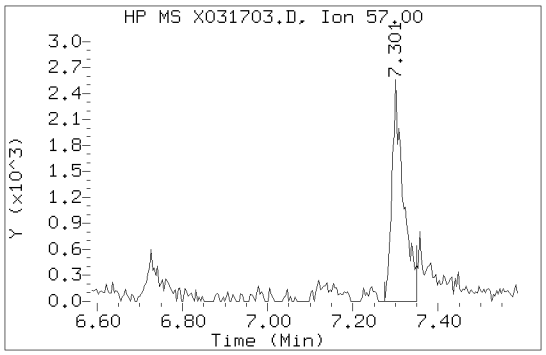
BEFORE

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

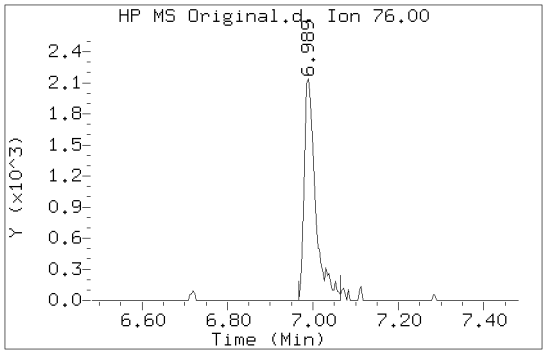


1,3-Dichloropropane (142-28-9)

Reason Code:

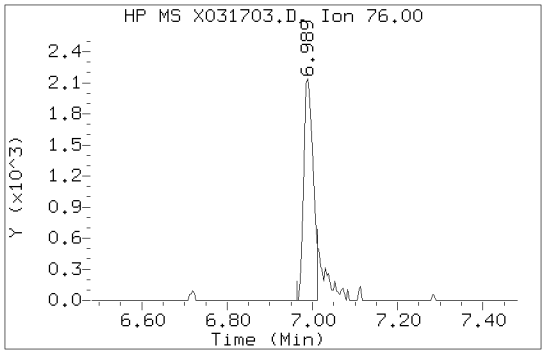
BEFORE

MASS
76
AREA
4020
HEIGHT
2140
30-Mar-2023
12:33
linh
pham



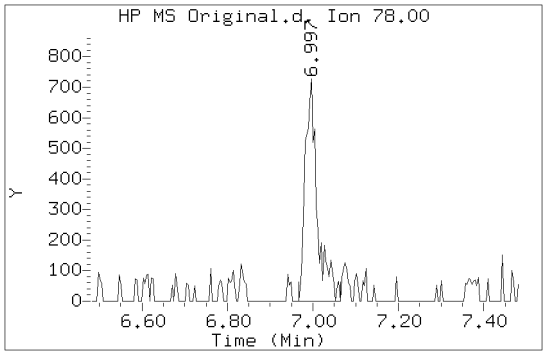
AFTER

MASS
76
AREA
3374
HEIGHT
2140
30-Mar-2023
12:41
linh
pham



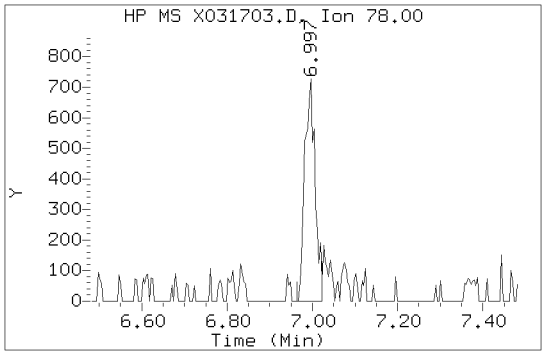
BEFORE

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

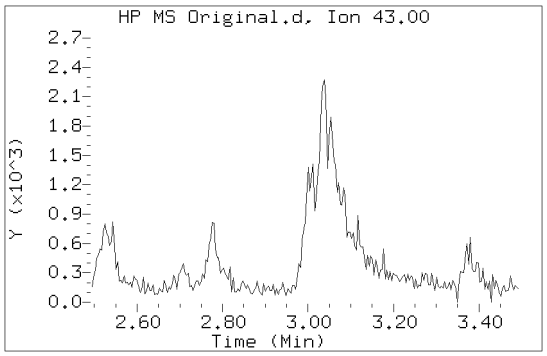


Vinyl Acetate (108-05-4)

Reason Code:

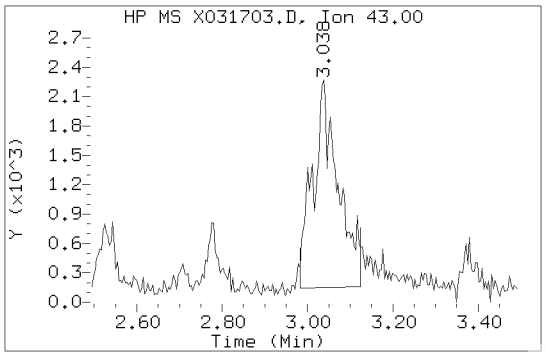
BEFORE

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



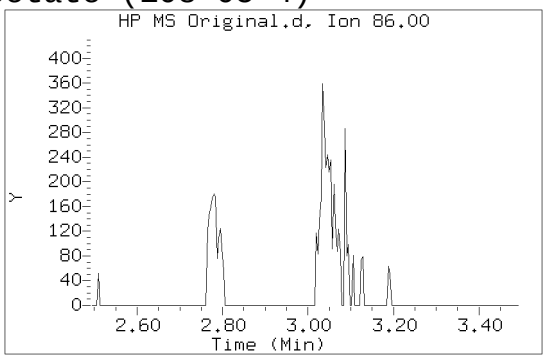
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Vinyl Acetate (108-05-4)

Reason Code:

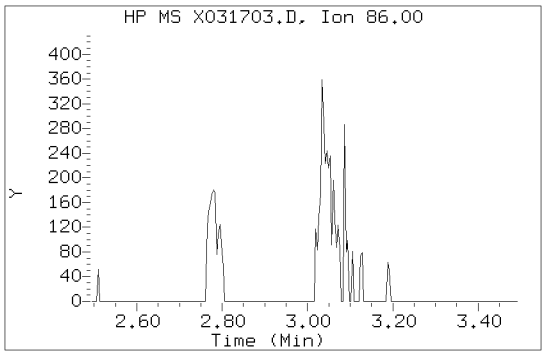
BEFORE

MASS
86
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
86
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

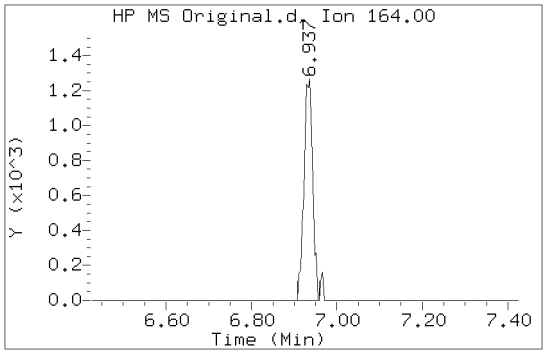


Tetrachloroethene (127-18-4)

Reason Code:

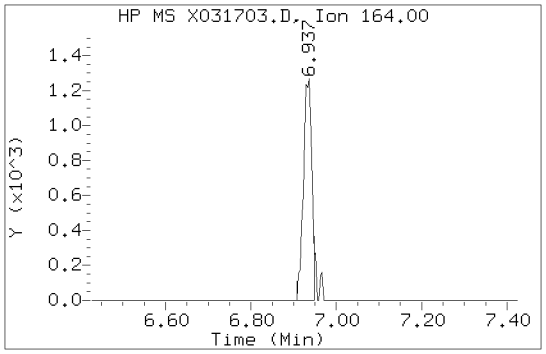
BEFORE

MASS
164
AREA
1838
HEIGHT
1268
30-Mar-2023
12:33
linh
pham



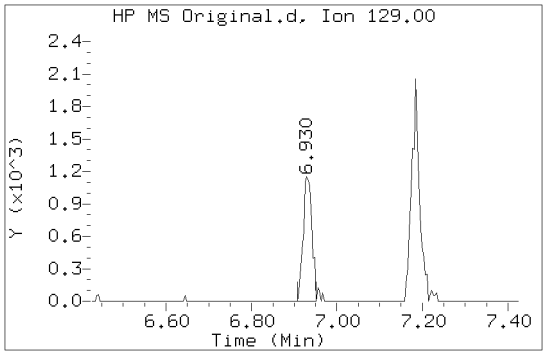
AFTER

MASS
164
AREA
1777
HEIGHT
1268
30-Mar-2023
12:41
linh
pham



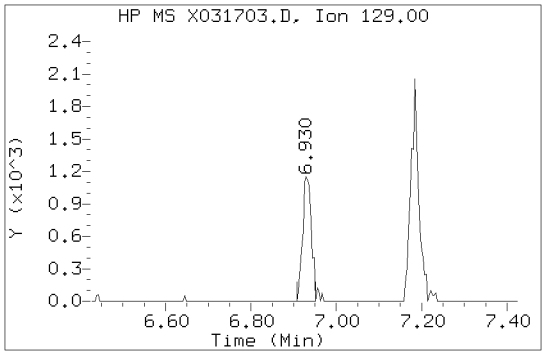
BEFORE

MASS
129
AREA
1687
HEIGHT
1152
30-Mar-2023
12:33
linh
pham



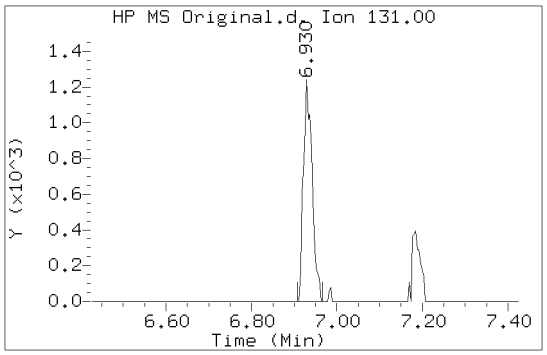
AFTER

MASS
129
AREA
1687
HEIGHT
1152
30-Mar-2023
12:41
linh
pham



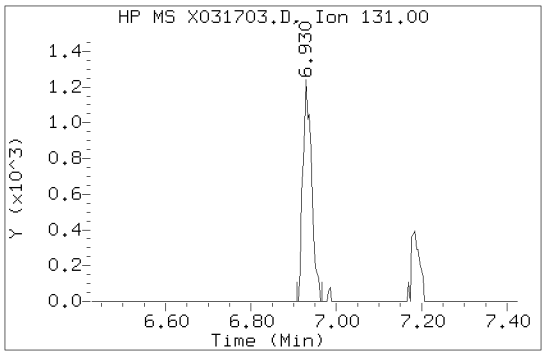
BEFORE

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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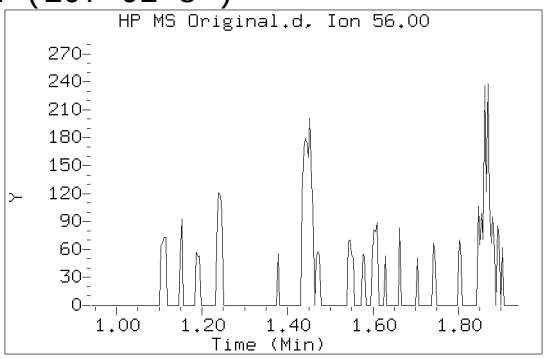
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

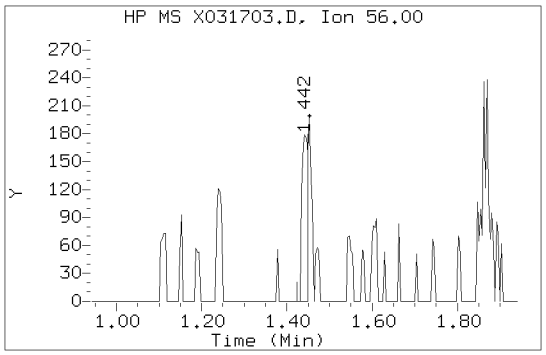
Acrolein (107-02-8)

Reason Code:

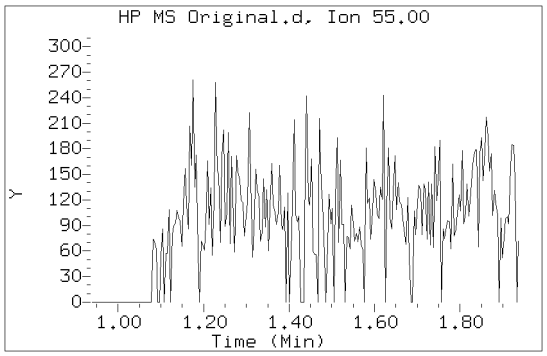
BEFORE
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



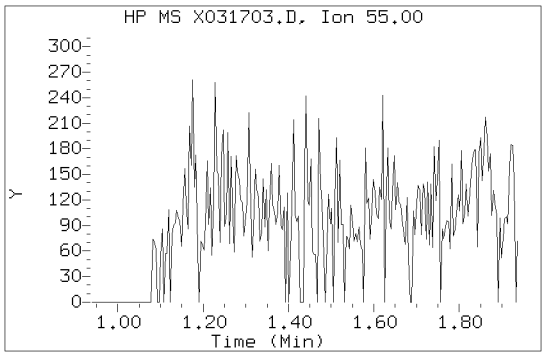
AFTER
MASS
56
AREA
179
HEIGHT
179
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



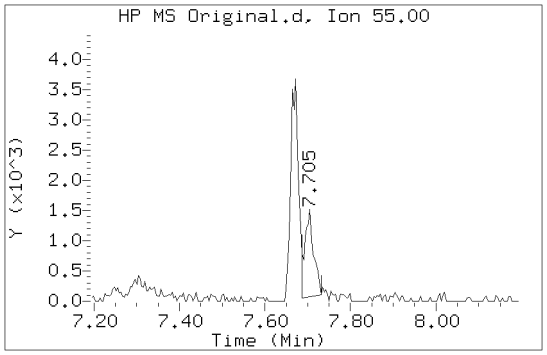
AFTER
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



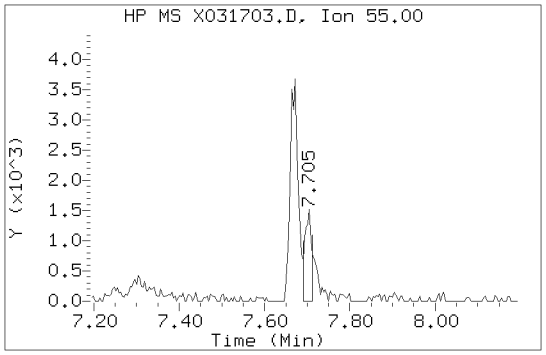
1-Chlorohexane (544-10-5)

Reason Code:

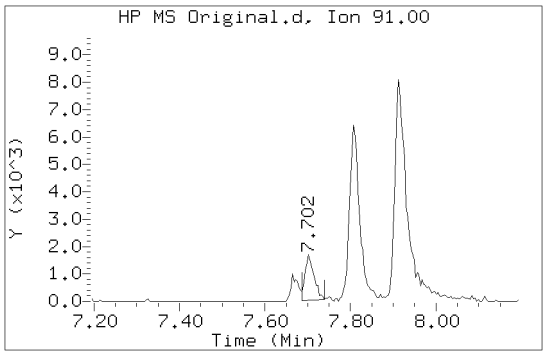
BEFORE
MASS
55
AREA
2152
HEIGHT
1452
30-Mar-2023
12:33
linh
pham



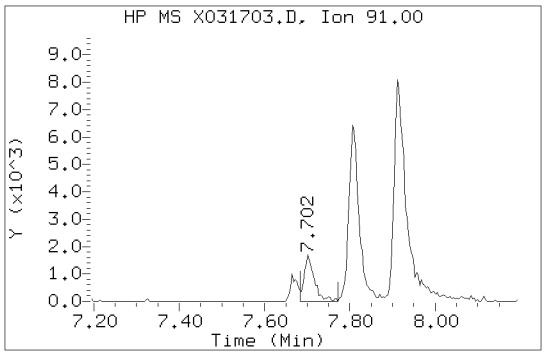
AFTER
MASS
55
AREA
1701
HEIGHT
1525
30-Mar-2023
12:41
linh
pham



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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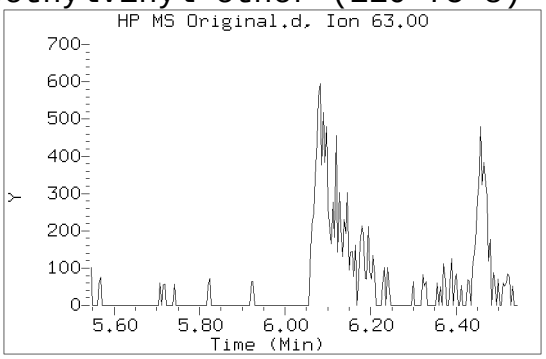
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

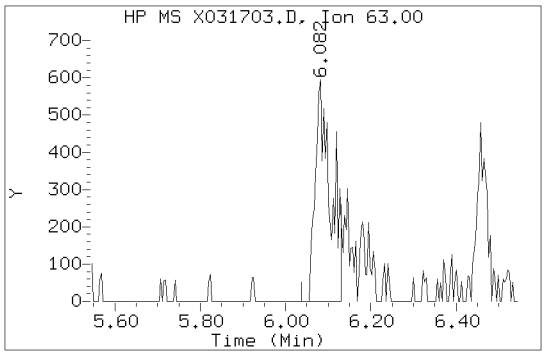
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

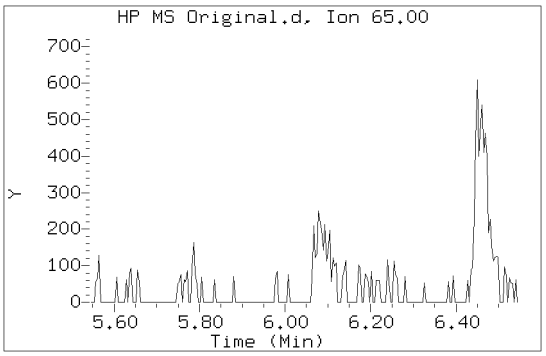
BEFORE
MASS
63
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



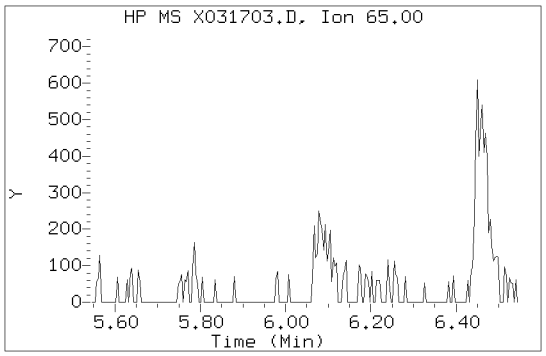
AFTER
MASS
63
AREA
1463
HEIGHT
595
30-Mar-2023
12:41
linh
pham



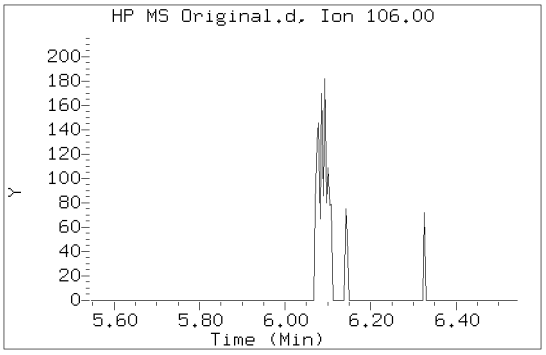
BEFORE
MASS
65
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



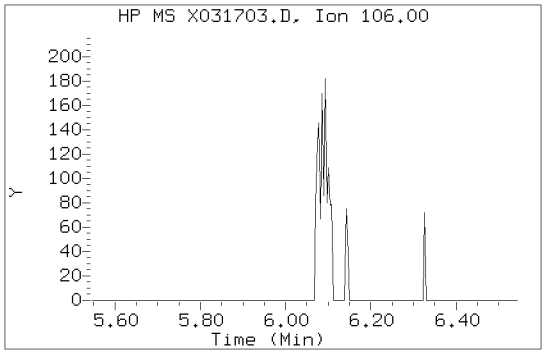
AFTER
MASS
65
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
106
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



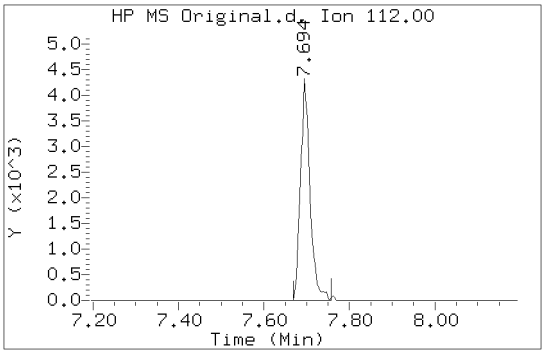
AFTER
MASS
106
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



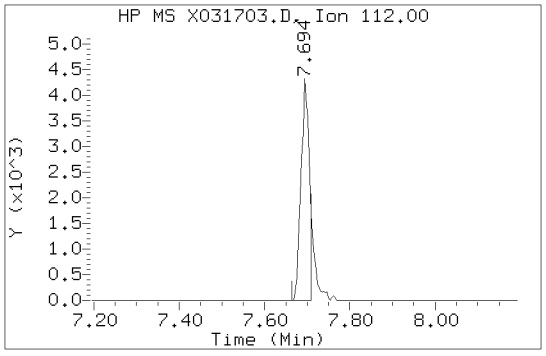
Chlorobenzene (108-90-7)

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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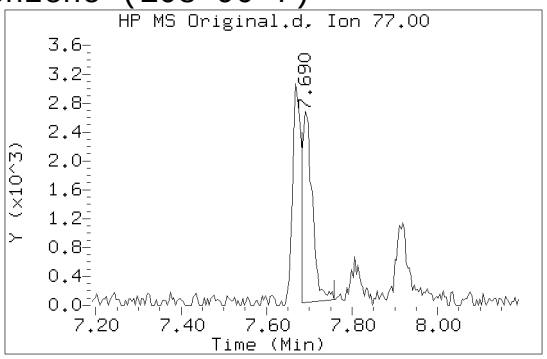
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Chlorobenzene (108-90-7)

Reason Code:

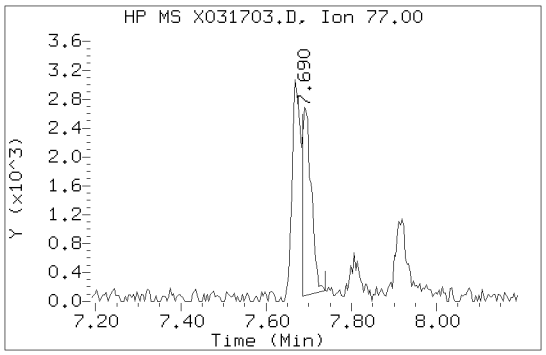
BEFORE

MASS
77
AREA
4396
HEIGHT
2653
30-Mar-2023
12:33
linh
pham



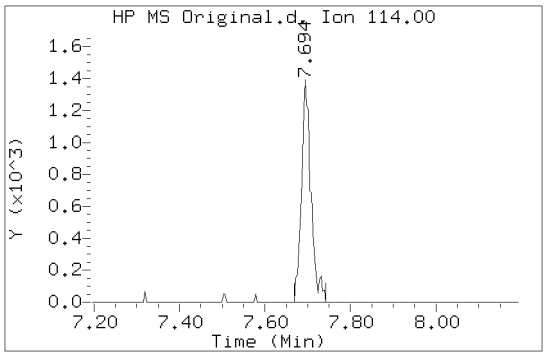
AFTER

MASS
77
AREA
3627
HEIGHT
2613
30-Mar-2023
12:41
linh
pham



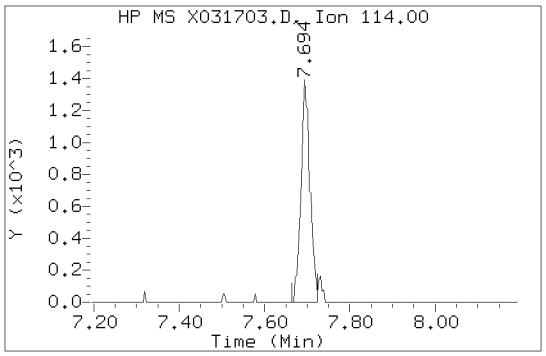
BEFORE

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

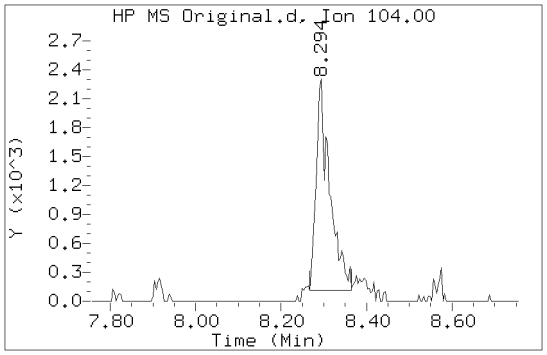


Styrene (100-42-5)

Reason Code:

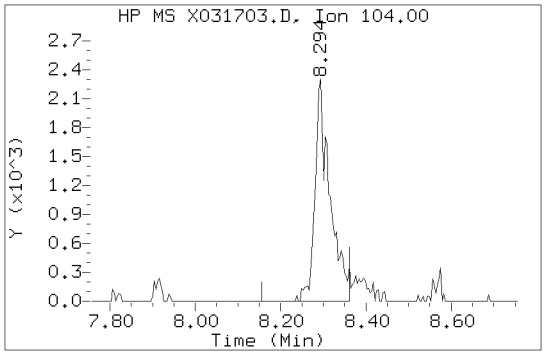
BEFORE

MASS
104
AREA
4816
HEIGHT
2195
30-Mar-2023
12:33
linh
pham



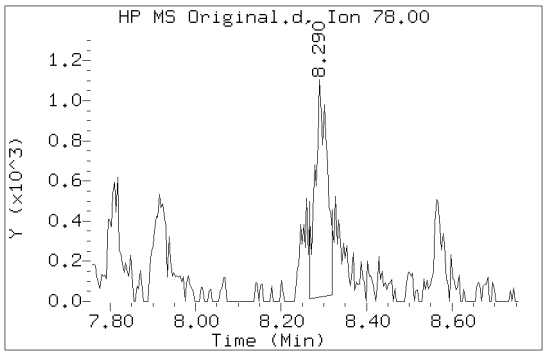
AFTER

MASS
104
AREA
5629
HEIGHT
2306
30-Mar-2023
12:41
linh
pham



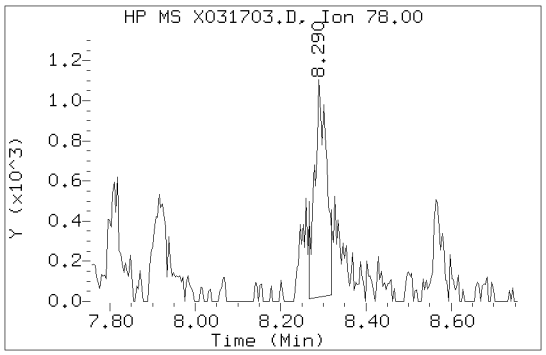
BEFORE

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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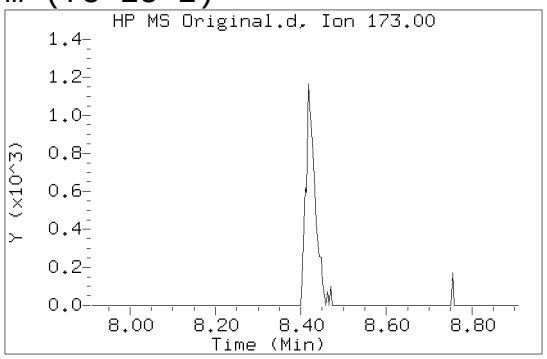
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Bromoform (75-25-2)

Reason Code:

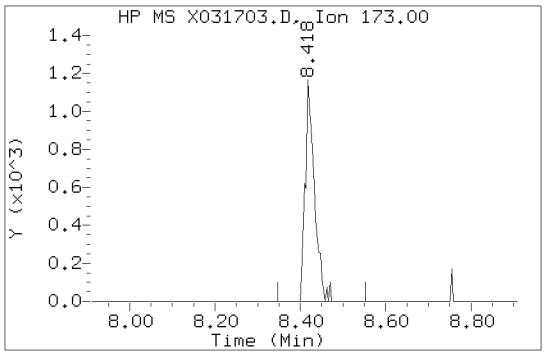
BEFORE

MASS
173
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



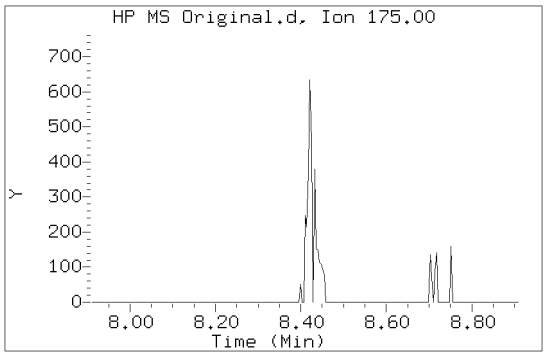
AFTER

MASS
173
AREA
1781
HEIGHT
1167
30-Mar-2023
12:41
linh
pham



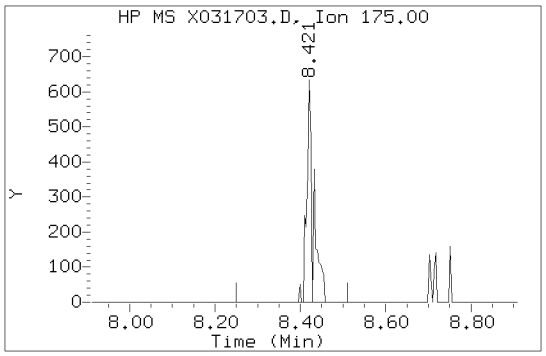
BEFORE

MASS
175
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



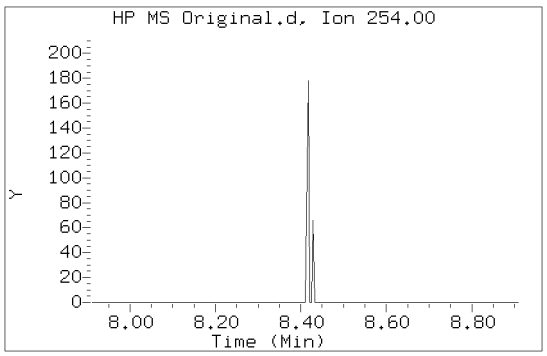
AFTER

MASS
175
AREA
685
HEIGHT
634
30-Mar-2023
12:41
linh
pham



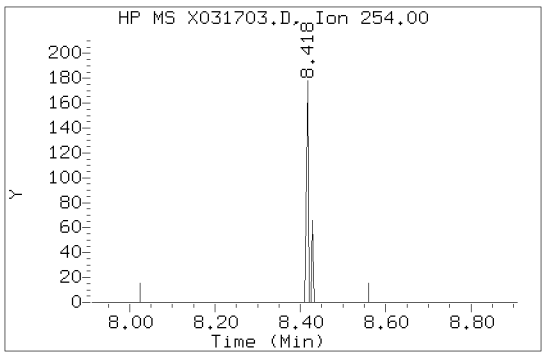
BEFORE

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

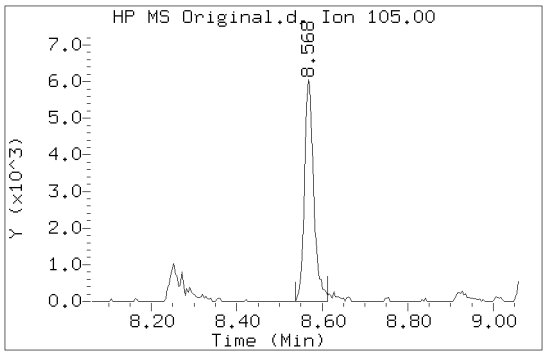


Isopropylbenzene (98-82-8)

Reason Code:

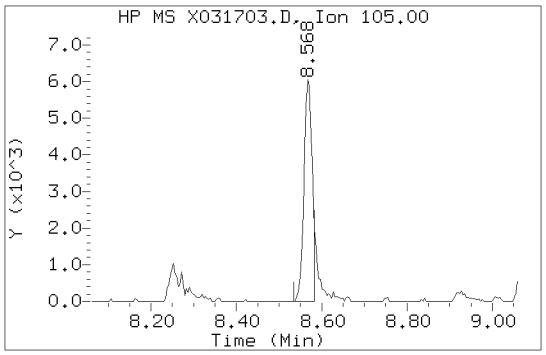
BEFORE

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



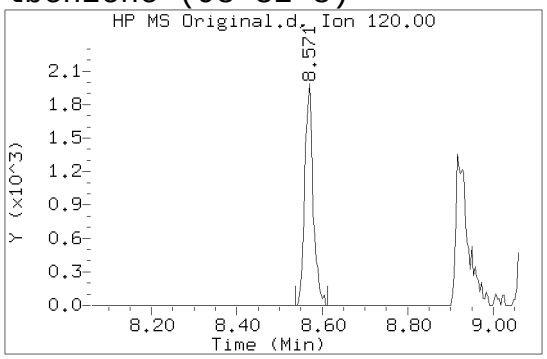
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Isopropylbenzene (98-82-8)

Reason Code:

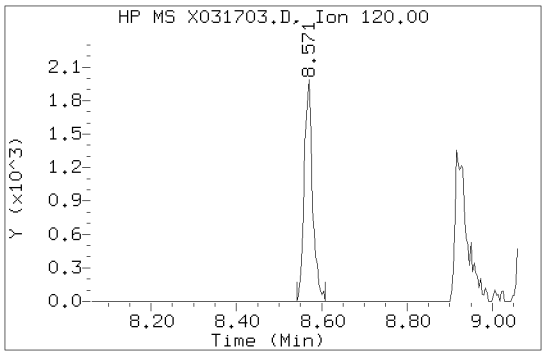
BEFORE

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

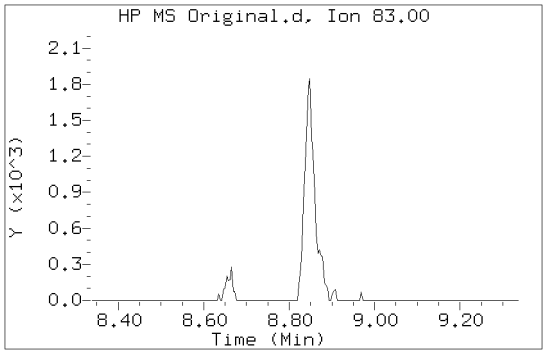


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

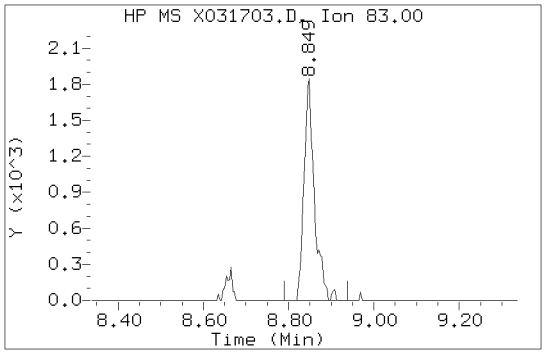
BEFORE

MASS
83
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



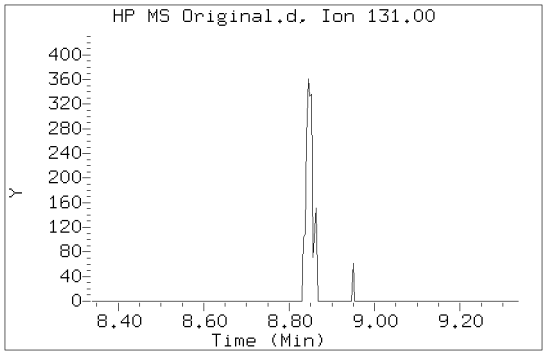
AFTER

MASS
83
AREA
3141
HEIGHT
1846
30-Mar-2023
12:41
linh
pham



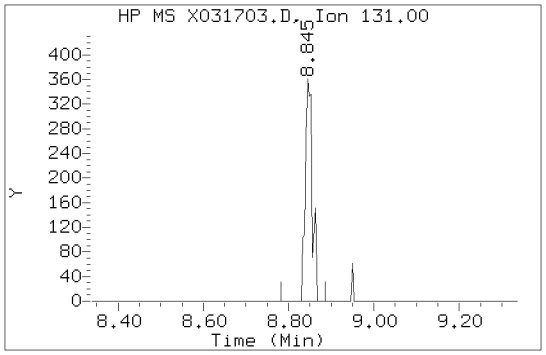
BEFORE

MASS
131
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



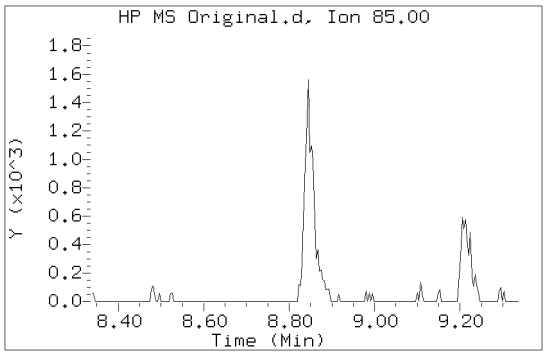
AFTER

MASS
131
AREA
415
HEIGHT
361
30-Mar-2023
12:41
linh
pham



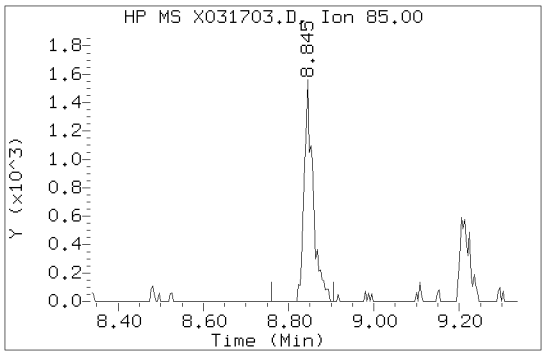
BEFORE

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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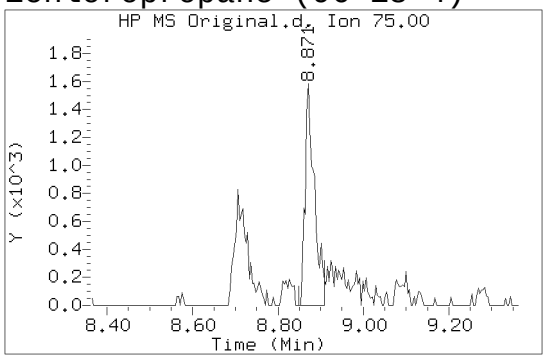
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,3-Trichloropropane (96-18-4)

Reason Code:

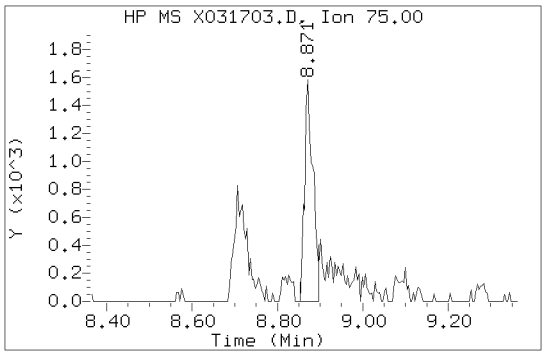
BEFORE

MASS
75
AREA
2415
HEIGHT
1584
30-Mar-2023
12:33
linh
pham



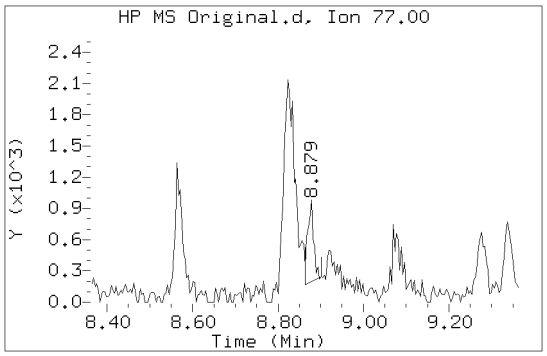
AFTER

MASS
75
AREA
2211
HEIGHT
1584
30-Mar-2023
12:41
linh
pham



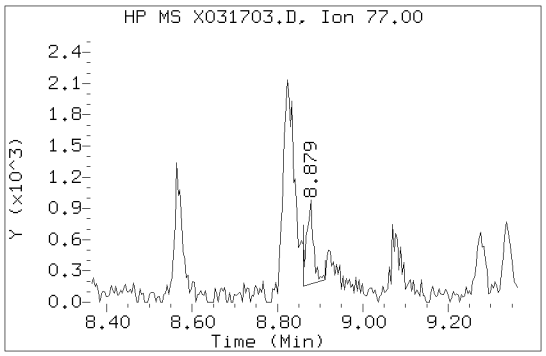
BEFORE

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

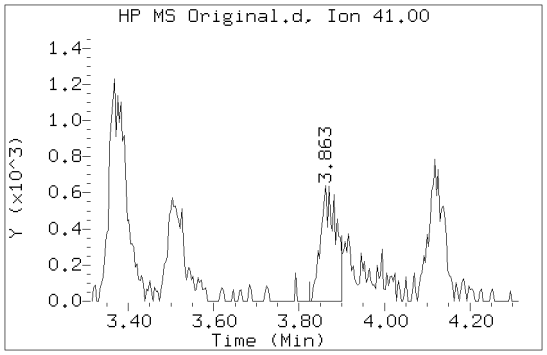


Methacrylonitrile (126-98-7)

Reason Code:

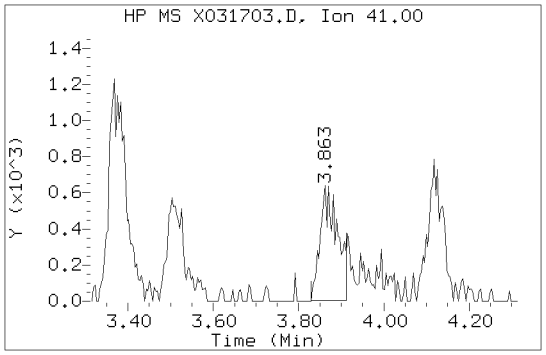
BEFORE

MASS
41
AREA
1593
HEIGHT
639
30-Mar-2023
12:33
linh
pham



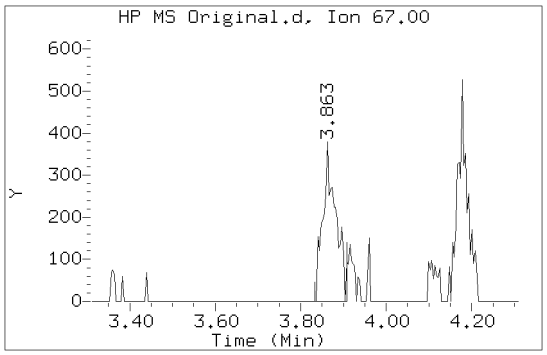
AFTER

MASS
41
AREA
1764
HEIGHT
634
30-Mar-2023
12:41
linh
pham



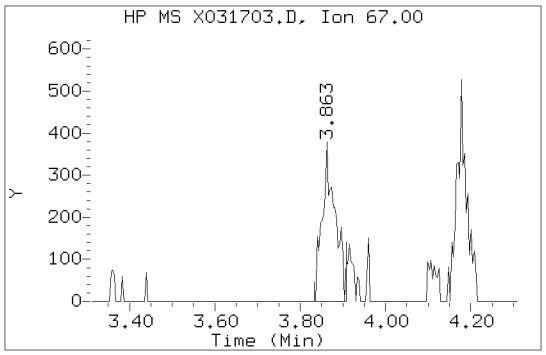
BEFORE

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



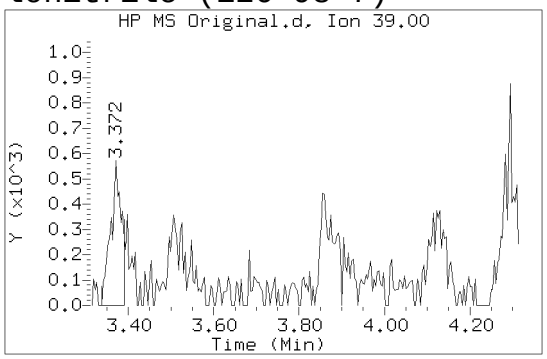
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methacrylonitrile (126-98-7)

Reason Code:

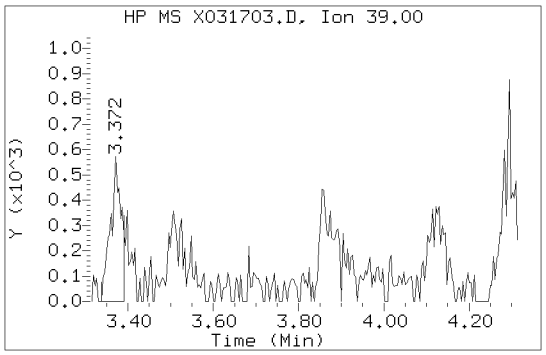
BEFORE

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

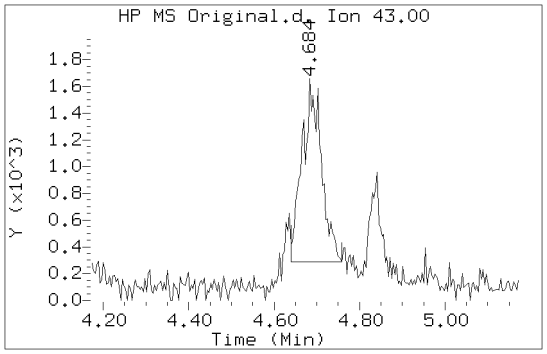


Isobutyl Alcohol (78-83-1)

Reason Code:

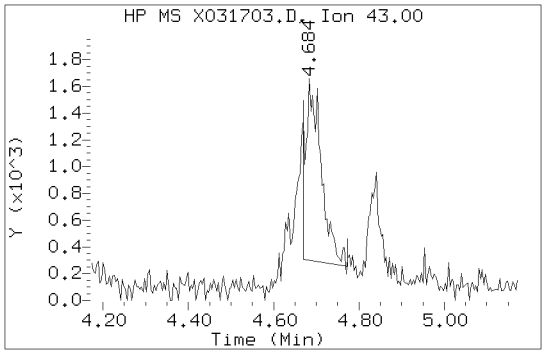
BEFORE

MASS
43
AREA
4301
HEIGHT
1369
30-Mar-2023
12:33
linh
pham



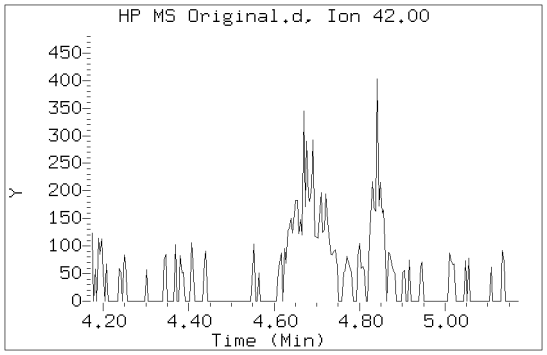
AFTER

MASS
43
AREA
3536
HEIGHT
1356
30-Mar-2023
12:41
linh
pham



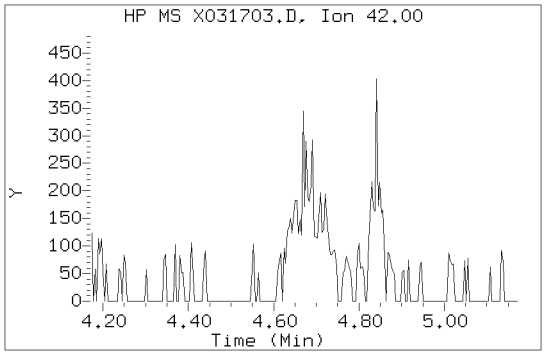
BEFORE

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



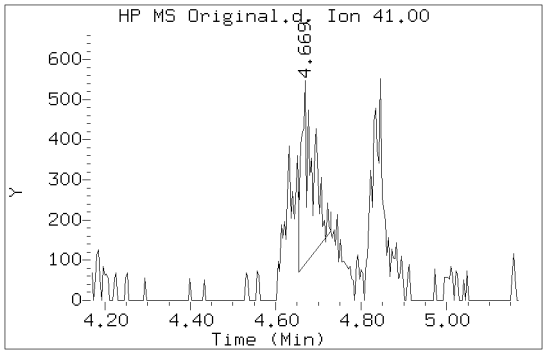
AFTER

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



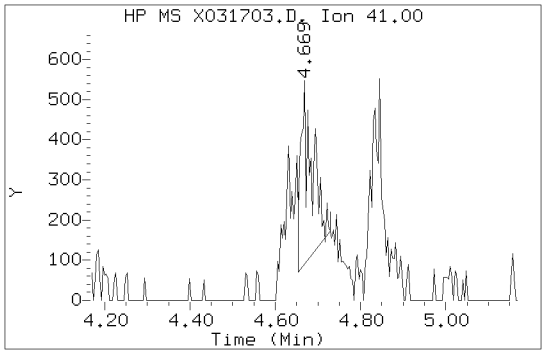
BEFORE

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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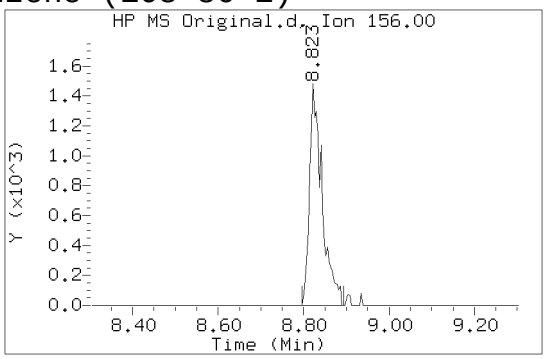
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

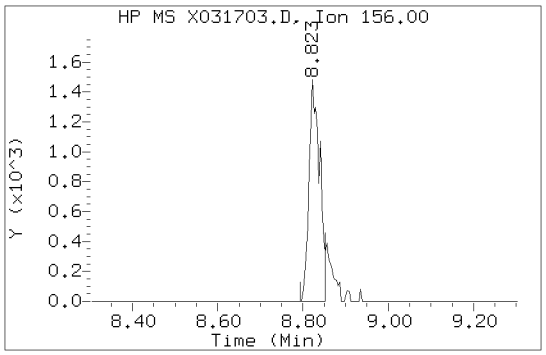
Bromobenzene (108-86-1)

Reason Code:

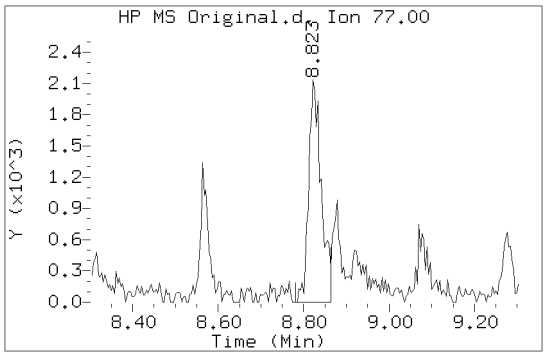
BEFORE
MASS
156
AREA
3020
HEIGHT
1482
30-Mar-2023
12:33
linh
pham



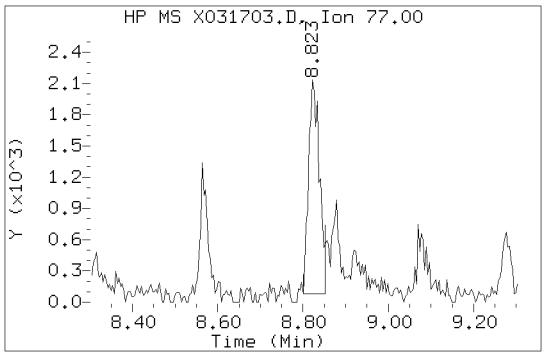
AFTER
MASS
156
AREA
2604
HEIGHT
1482
30-Mar-2023
12:41
linh
pham



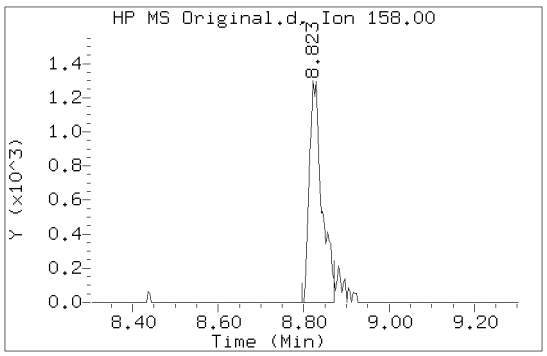
BEFORE
MASS
77
AREA
4369
HEIGHT
2135
30-Mar-2023
12:33
linh
pham



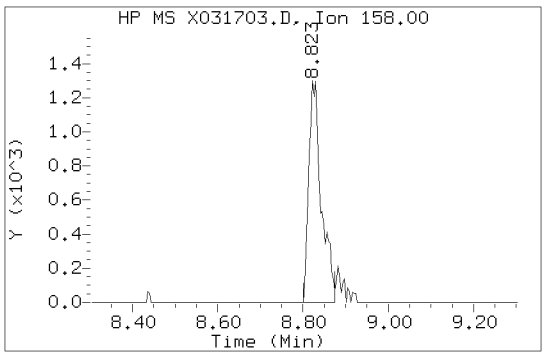
AFTER
MASS
77
AREA
3655
HEIGHT
2052
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
158
AREA
2647
HEIGHT
1300
30-Mar-2023
12:33
linh
pham



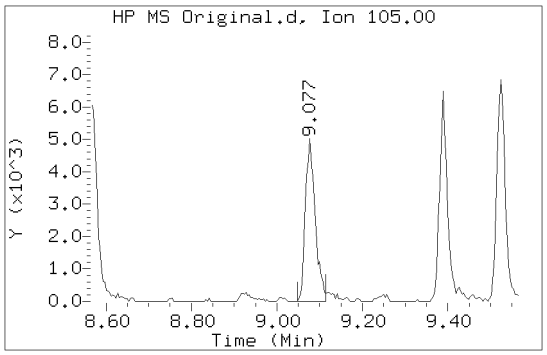
AFTER
MASS
158
AREA
2662
HEIGHT
1300
30-Mar-2023
12:41
linh
pham



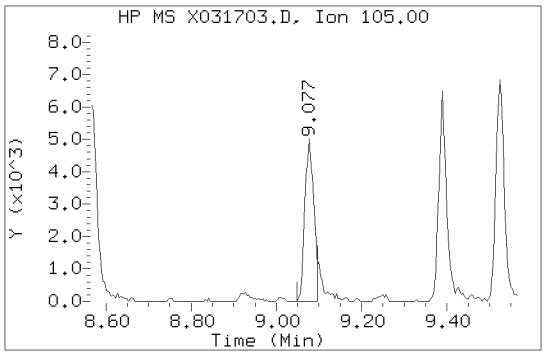
1,3,5-Trimethylbenzene (108-67-8)

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



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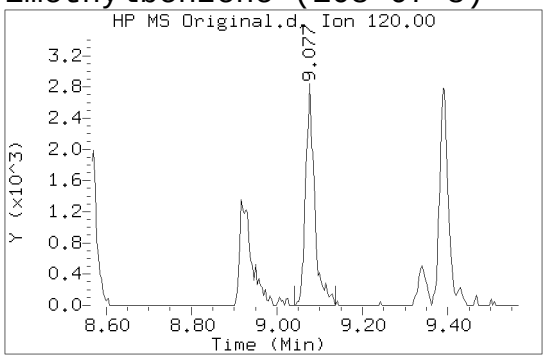
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,3,5-Trimethylbenzene (108-67-8)

BEFORE

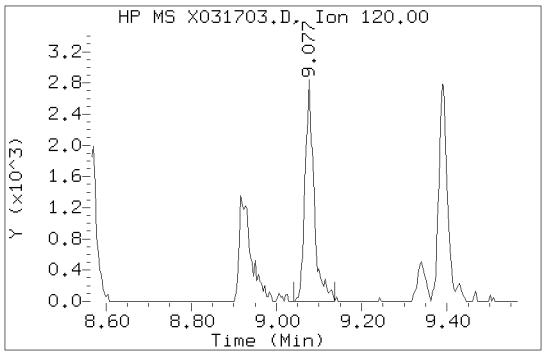
MASS
120
AREA
4167
HEIGHT
2842
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

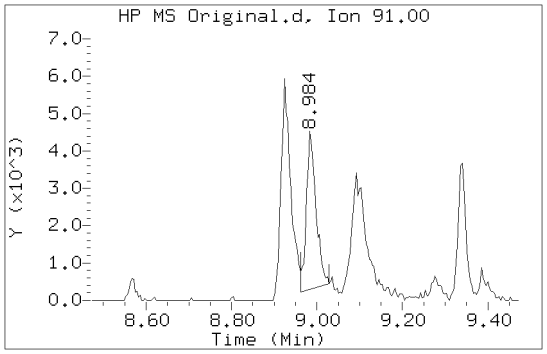
MASS
120
AREA
4167
HEIGHT
2842
30-Mar-2023
12:41
linh
pham



2-Chlorotoluene (95-49-8)

BEFORE

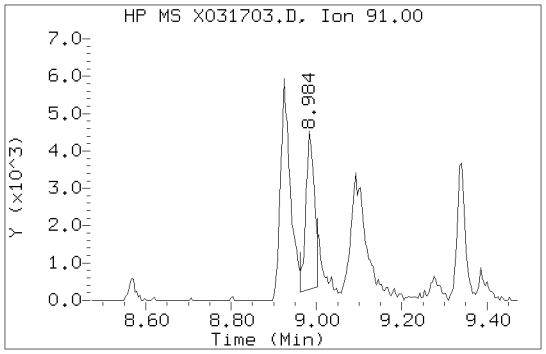
MASS
91
AREA
6692
HEIGHT
4231
30-Mar-2023
12:33
linh
pham



Reason Code:

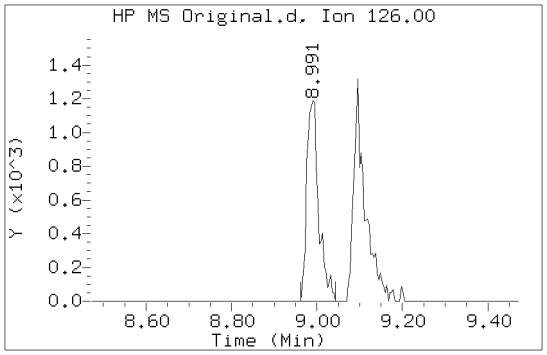
AFTER

MASS
91
AREA
5959
HEIGHT
4231
30-Mar-2023
12:41
linh
pham



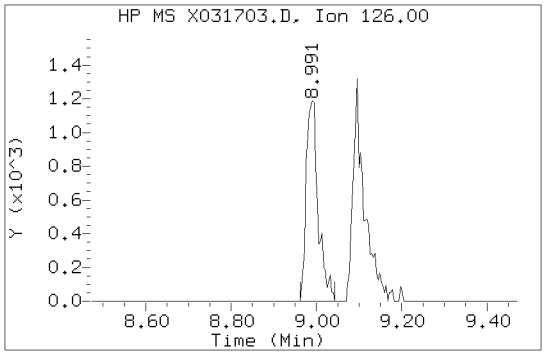
BEFORE

MASS
126
AREA
2327
HEIGHT
1189
30-Mar-2023
12:33
linh
pham



AFTER

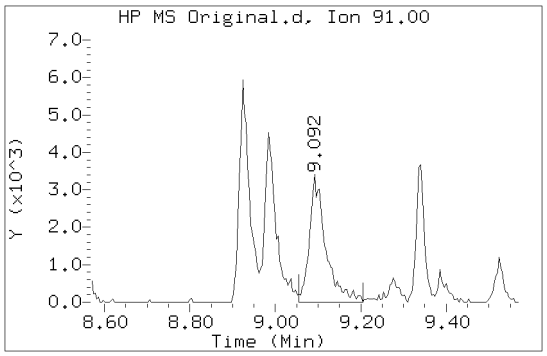
MASS
126
AREA
2327
HEIGHT
1189
30-Mar-2023
12:41
linh
pham



4-Chlorotoluene (106-43-4)

BEFORE

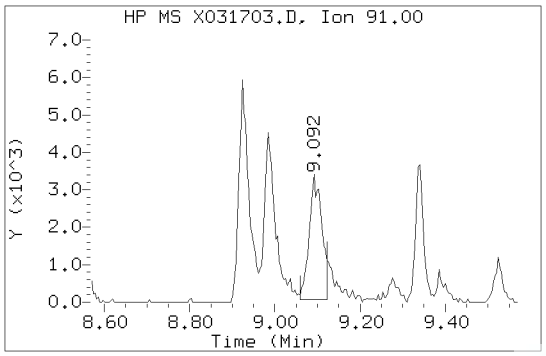
MASS
91
AREA
9062
HEIGHT
3419
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
91
AREA
6930
HEIGHT
3355
30-Mar-2023
12:41
linh
pham



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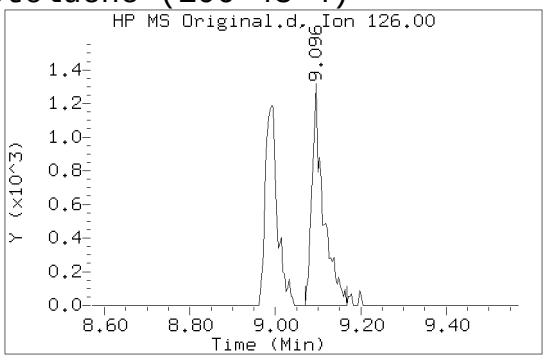
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

4-Chlorotoluene (106-43-4)

Reason Code:

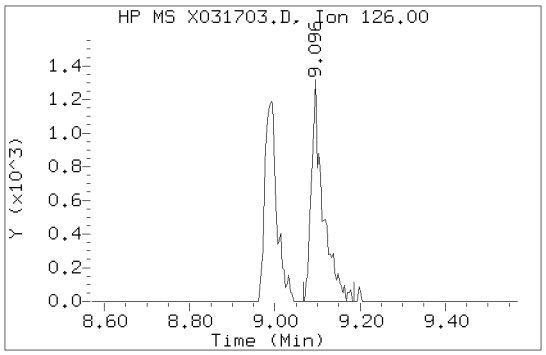
BEFORE

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

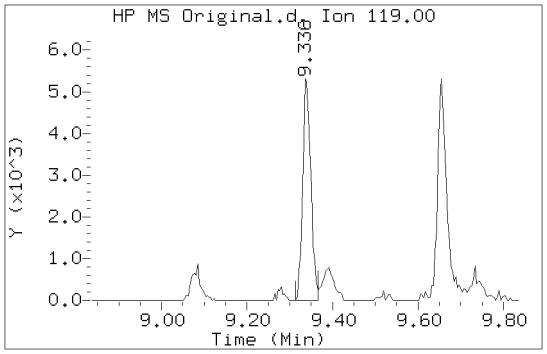


tert-Butylbenzene (98-06-6)

Reason Code:

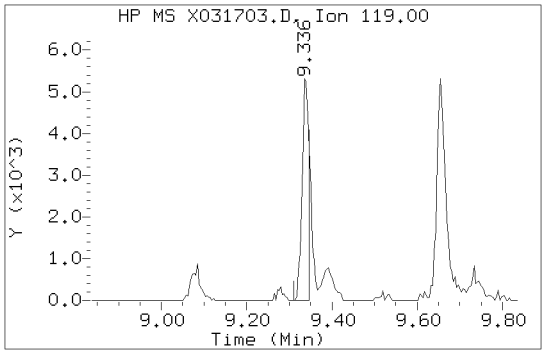
BEFORE

MASS
119
AREA
7255
HEIGHT
5313
30-Mar-2023
12:33
linh
pham



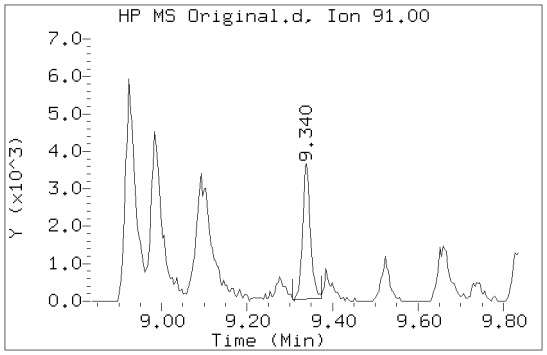
AFTER

MASS
119
AREA
5974
HEIGHT
5313
30-Mar-2023
12:41
linh
pham



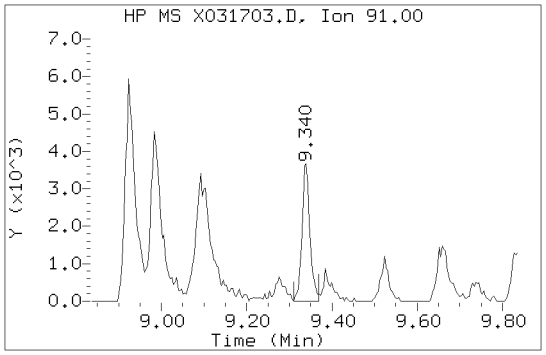
BEFORE

MASS
91
AREA
4684
HEIGHT
3604
30-Mar-2023
12:33
linh
pham



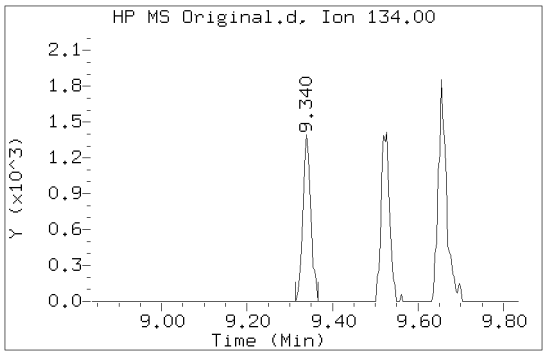
AFTER

MASS
91
AREA
4890
HEIGHT
3664
30-Mar-2023
12:41
linh
pham



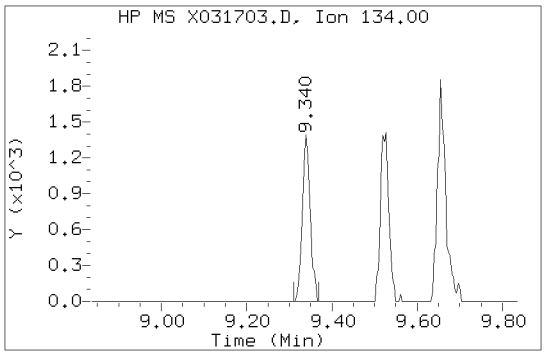
BEFORE

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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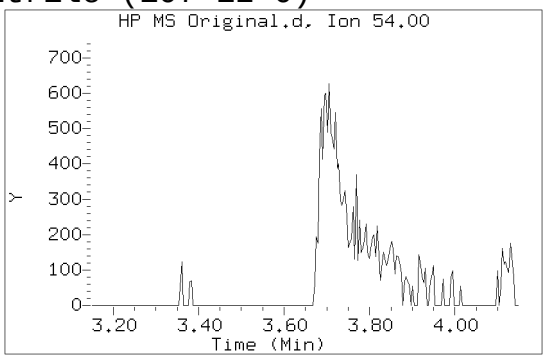
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Propionitrile (107-12-0)

Reason Code:

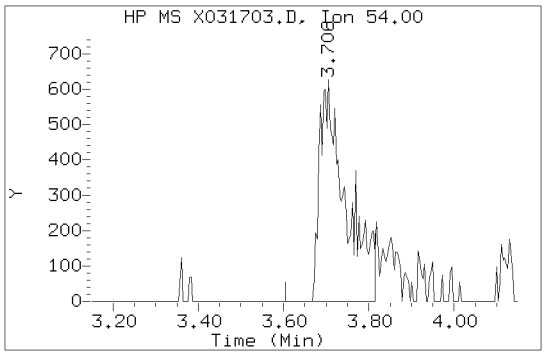
BEFORE

MASS
54
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



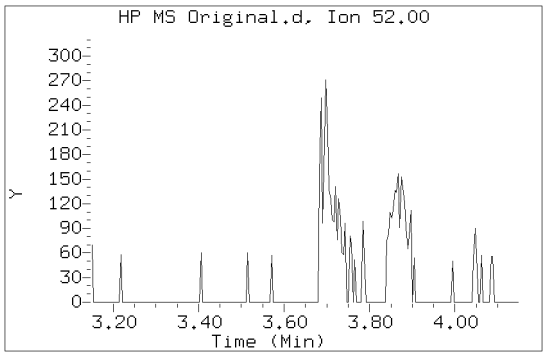
AFTER

MASS
54
AREA
2634
HEIGHT
627
30-Mar-2023
12:41
linh
pham



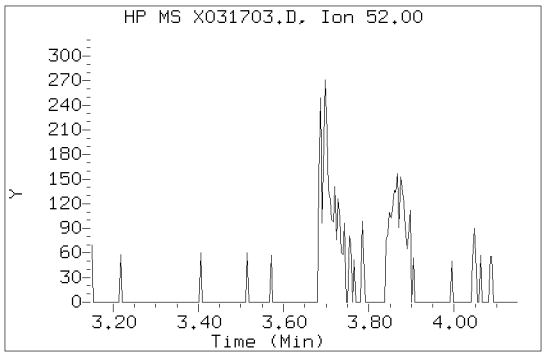
BEFORE

MASS
52
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



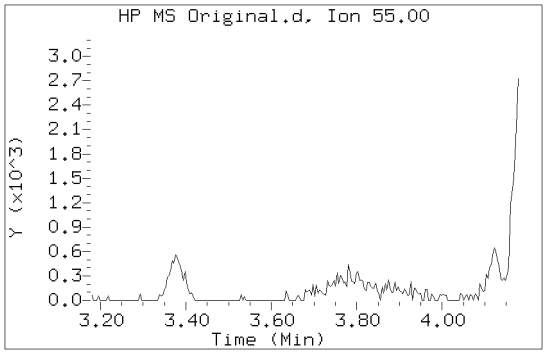
AFTER

MASS
52
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



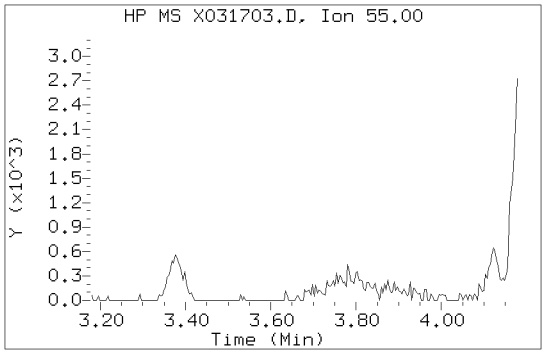
BEFORE

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

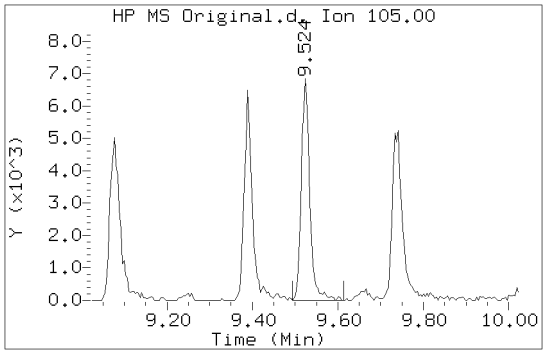


sec-Butylbenzene (135-98-8)

Reason Code:

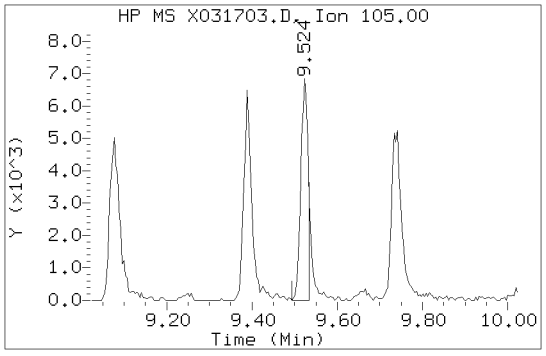
BEFORE

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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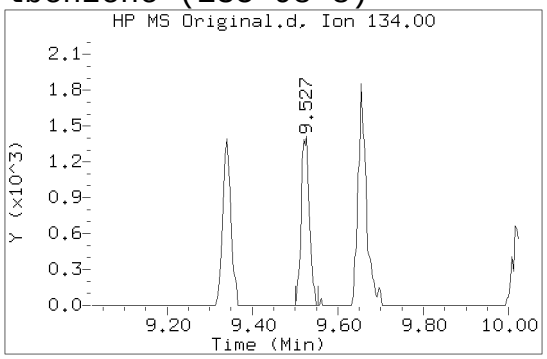
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

sec-Butylbenzene (135-98-8)

Reason Code:

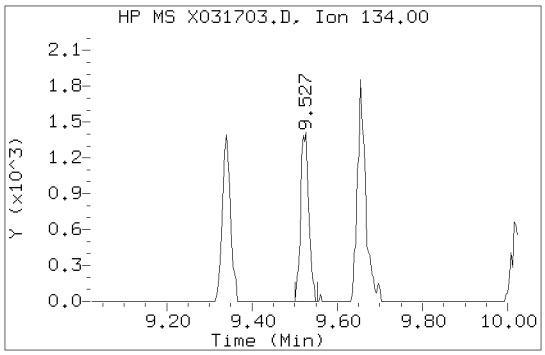
BEFORE

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

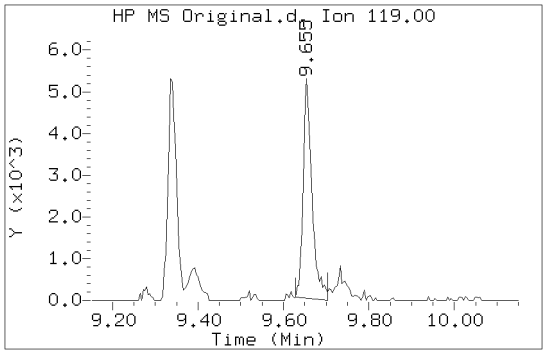


p-Isopropyltoluene (99-87-6)

Reason Code:

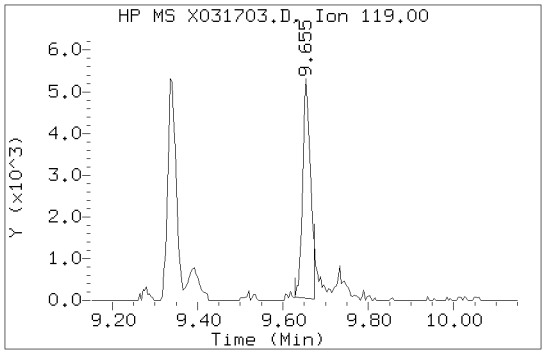
BEFORE

MASS
119
AREA
7728
HEIGHT
5256
30-Mar-2023
12:33
linh
pham



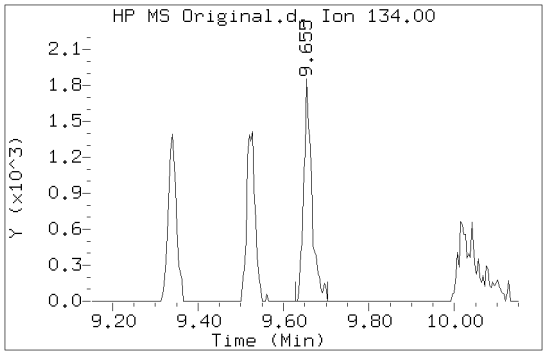
AFTER

MASS
119
AREA
6920
HEIGHT
5256
30-Mar-2023
12:41
linh
pham



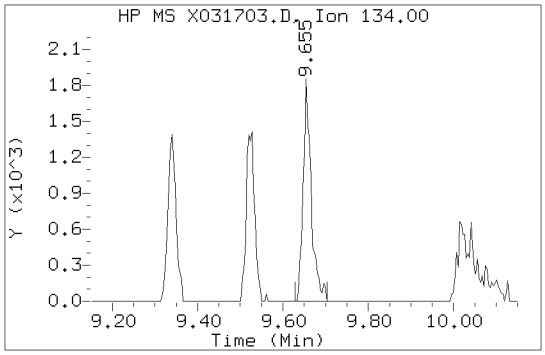
BEFORE

MASS
134
AREA
2501
HEIGHT
1854
30-Mar-2023
12:33
linh
pham



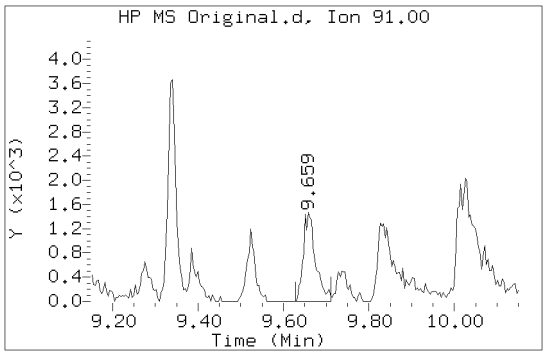
AFTER

MASS
134
AREA
2501
HEIGHT
1854
30-Mar-2023
12:41
linh
pham



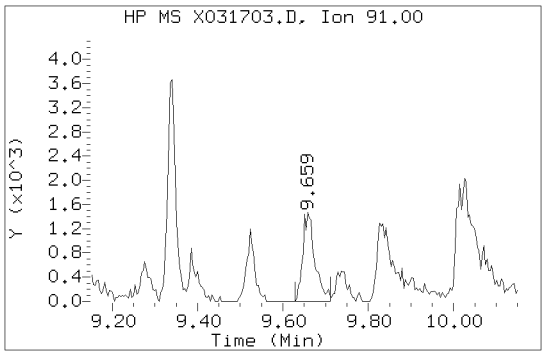
BEFORE

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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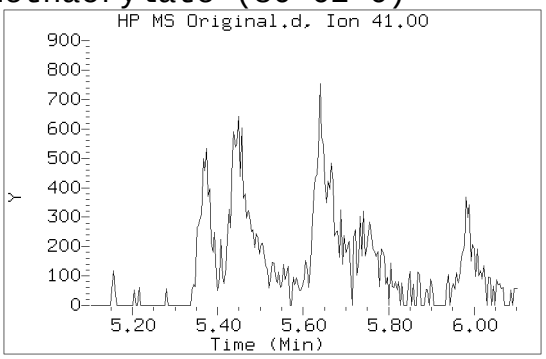
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

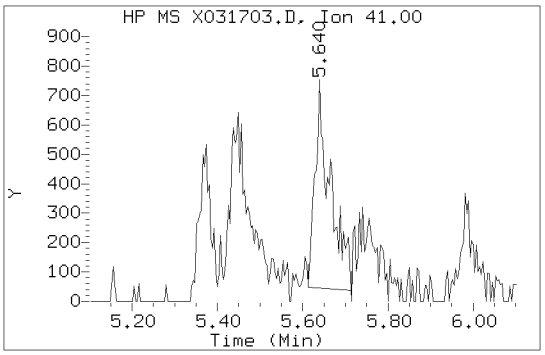
Methyl Methacrylate (80-62-6)

Reason Code:

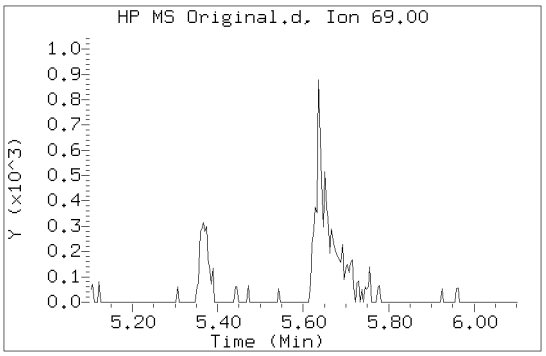
BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



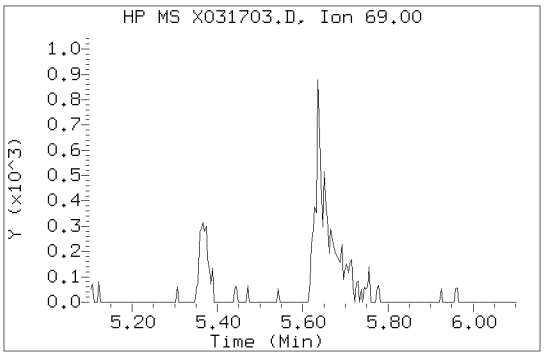
AFTER
MASS
41
AREA
1737
HEIGHT
709
30-Mar-2023
12:41
linh
pham



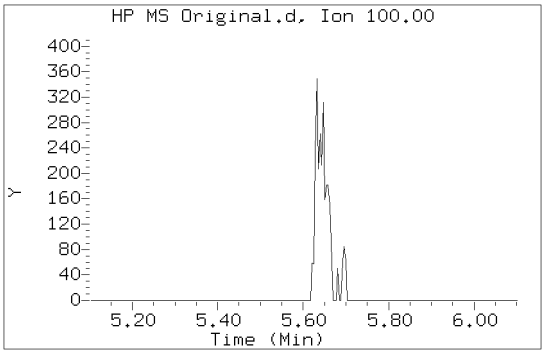
BEFORE
MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



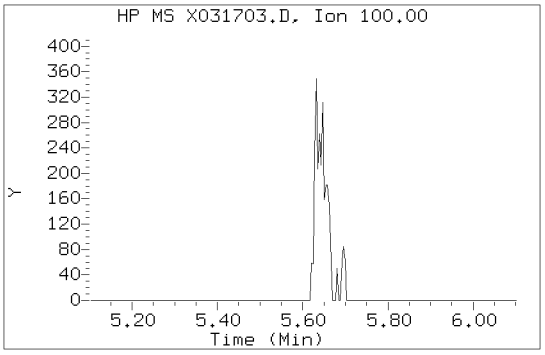
AFTER
MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
100
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



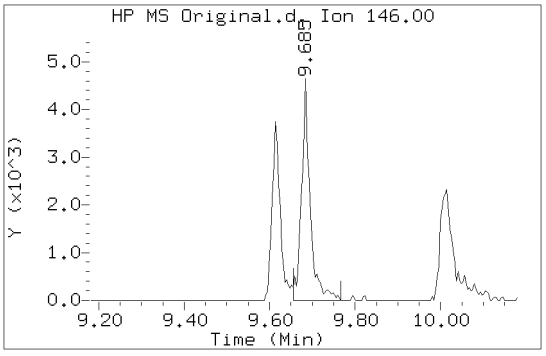
AFTER
MASS
100
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



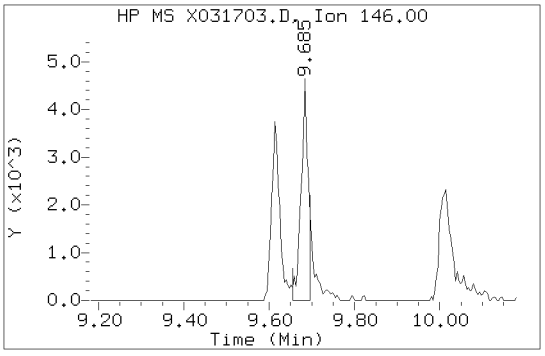
1,4-Dichlorobenzene (106-46-7)

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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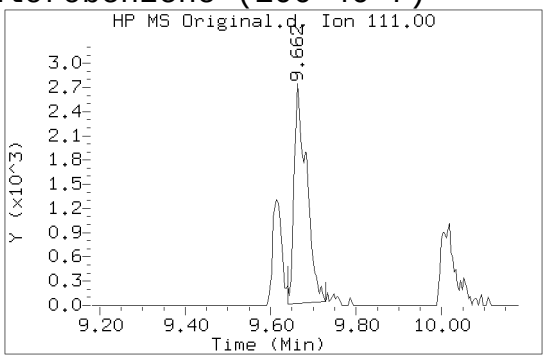
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

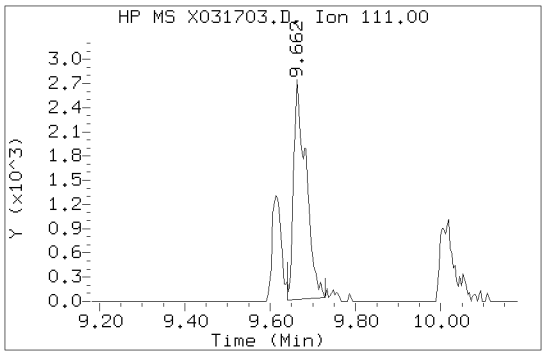
1,4-Dichlorobenzene (106-46-7)

Reason Code:

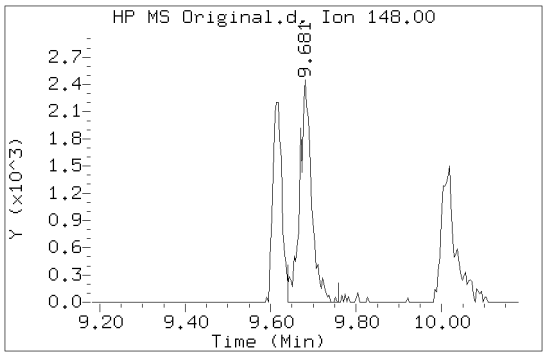
BEFORE
MASS
111
AREA
5585
HEIGHT
2720
30-Mar-2023
12:33
linh
pham



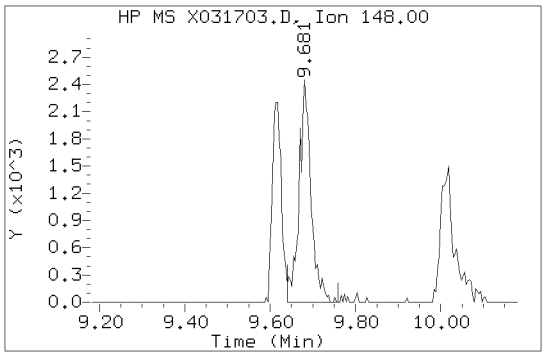
AFTER
MASS
111
AREA
5585
HEIGHT
2720
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
148
AREA
4886
HEIGHT
2449
30-Mar-2023
12:33
linh
pham



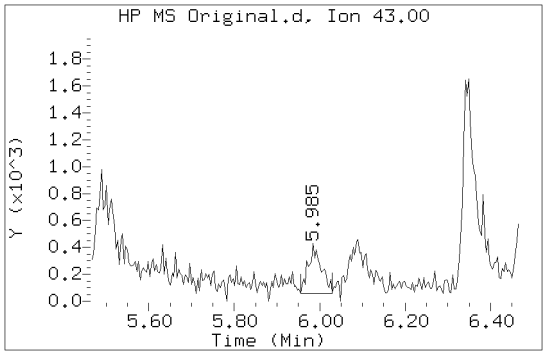
AFTER
MASS
148
AREA
4886
HEIGHT
2449
30-Mar-2023
12:41
linh
pham



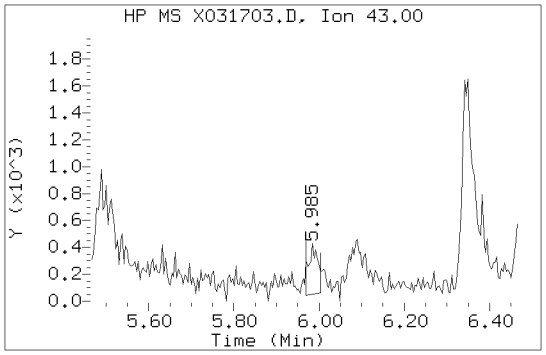
2-Nitropropane (79-46-9)

Reason Code:

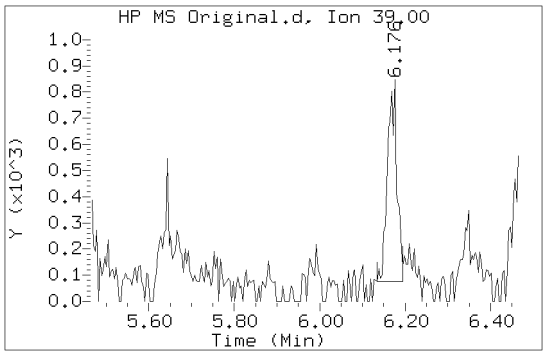
BEFORE
MASS
43
AREA
770
HEIGHT
369
30-Mar-2023
12:33
linh
pham



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
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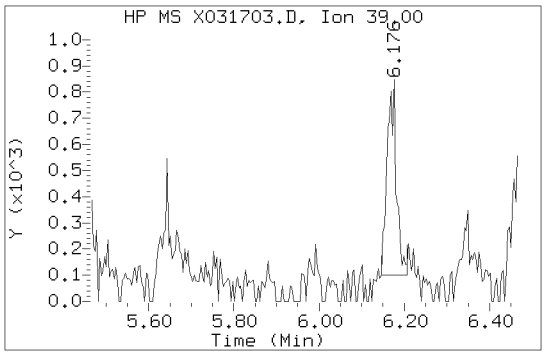

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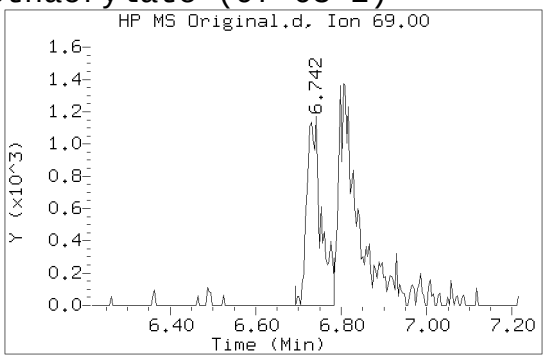
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Methacrylate (97-63-2)

Reason Code:

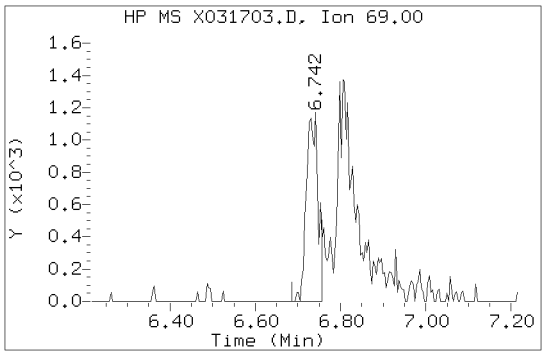
BEFORE

MASS
69
AREA
2745
HEIGHT
1173
30-Mar-2023
12:33
linh
pham



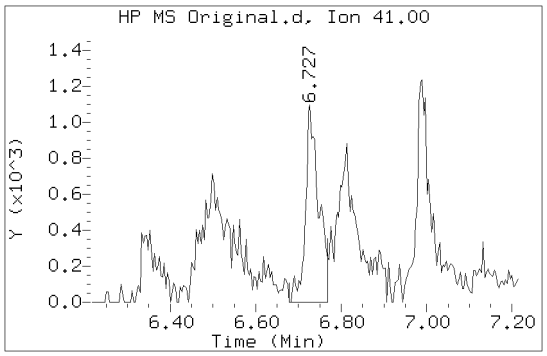
AFTER

MASS
69
AREA
2259
HEIGHT
1173
30-Mar-2023
12:41
linh
pham



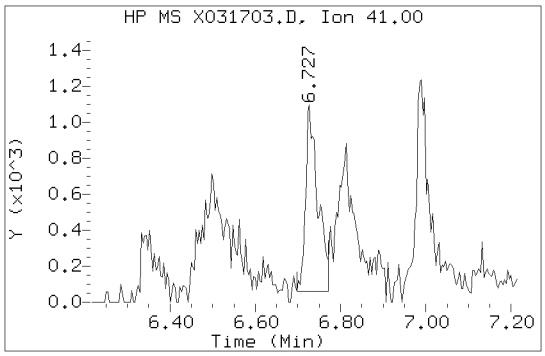
BEFORE

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

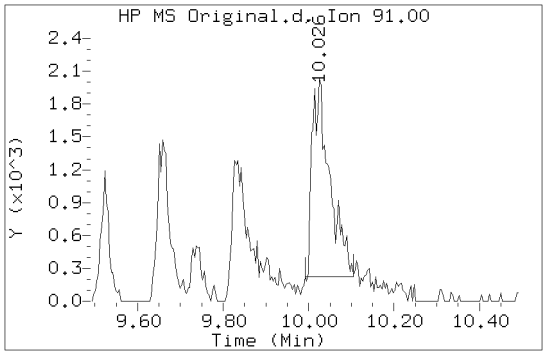


n-Butylbenzene (104-51-8)

Reason Code:

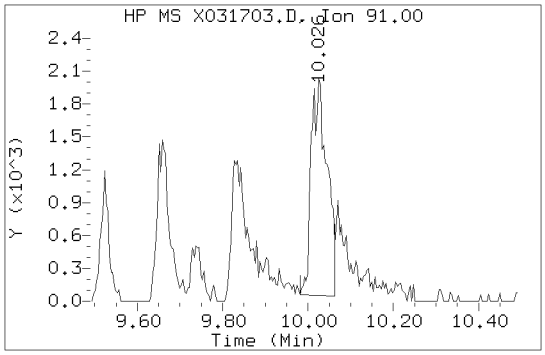
BEFORE

MASS
91
AREA
5090
HEIGHT
1805
30-Mar-2023
12:33
linh
pham



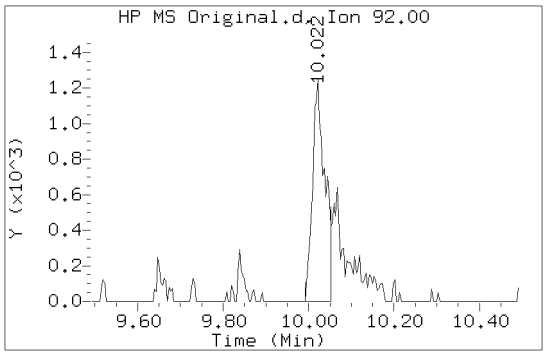
AFTER

MASS
91
AREA
5143
HEIGHT
1977
30-Mar-2023
12:41
linh
pham



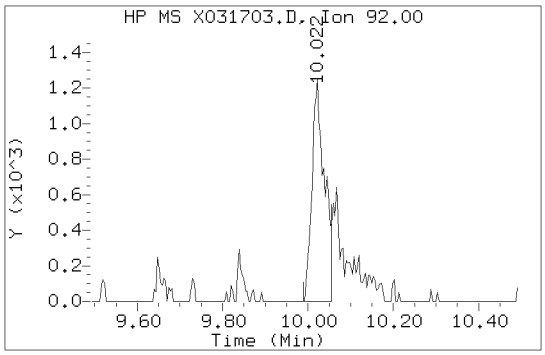
BEFORE

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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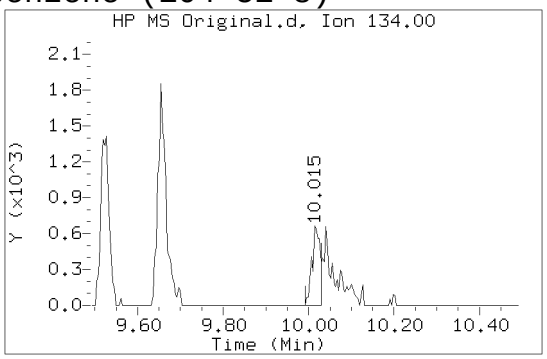
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

n-Butylbenzene (104-51-8)

Reason Code:

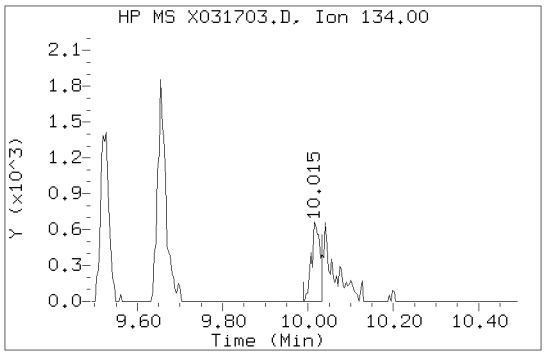
BEFORE

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

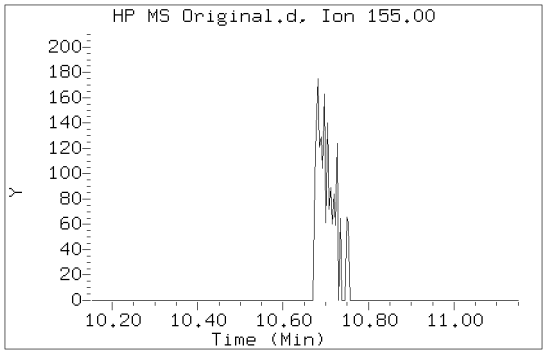


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

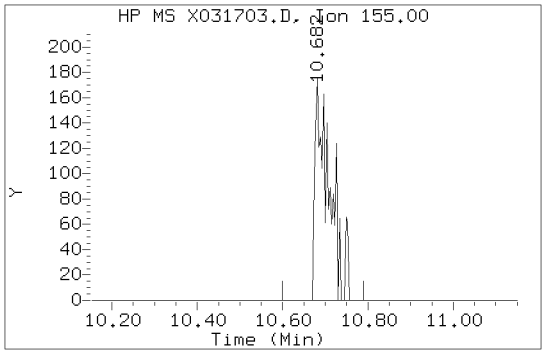
BEFORE

MASS
155
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



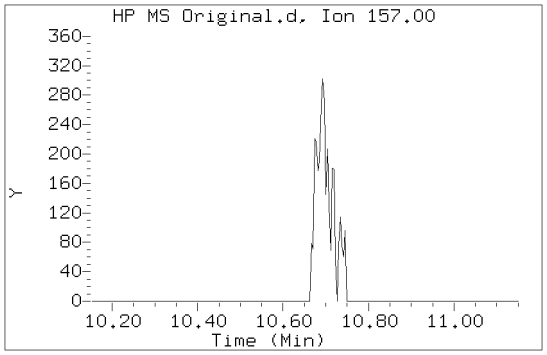
AFTER

MASS
155
AREA
405
HEIGHT
175
30-Mar-2023
12:41
linh
pham



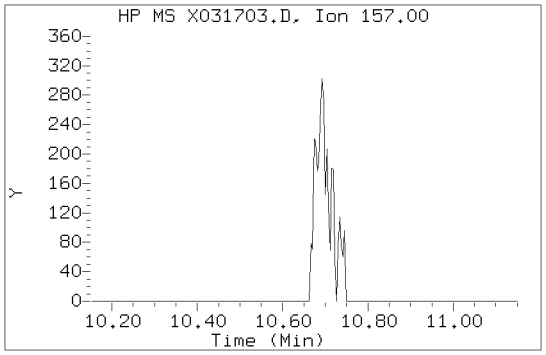
BEFORE

MASS
157
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



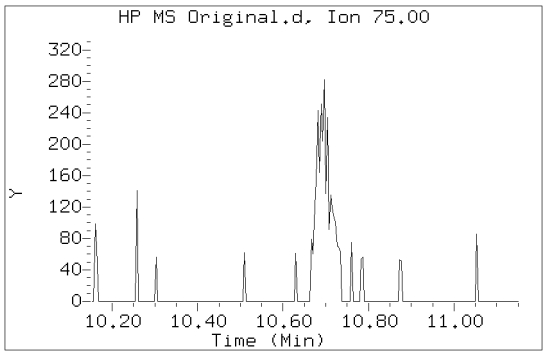
AFTER

MASS
157
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



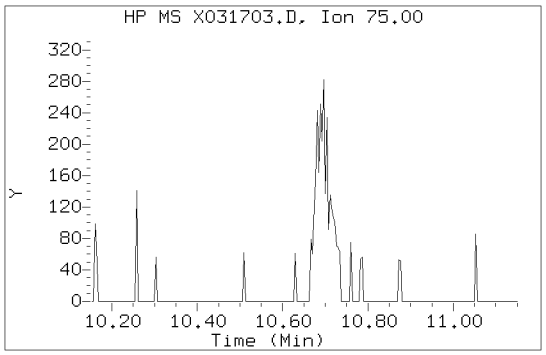
BEFORE

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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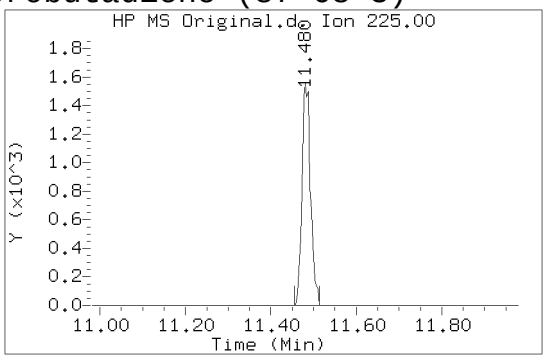
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Hexachlorobutadiene (87-68-3)

Reason Code:

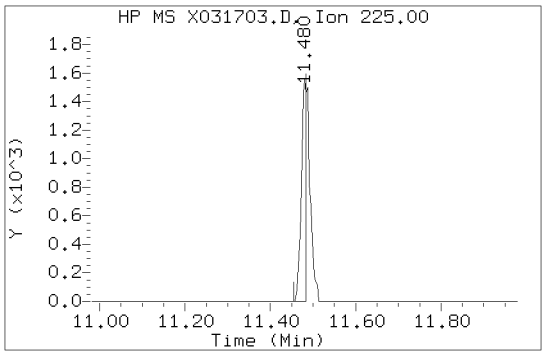
BEFORE

MASS
225
AREA
2232
HEIGHT
1553
30-Mar-2023
12:33
linh
pham



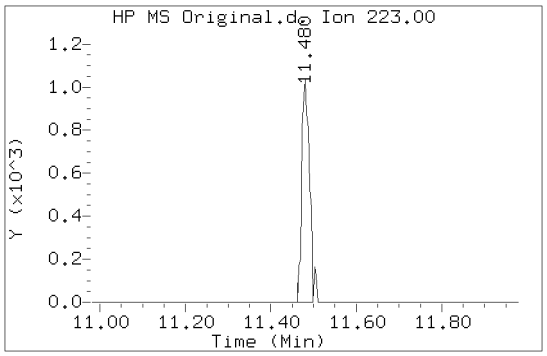
AFTER

MASS
225
AREA
1367
HEIGHT
1553
30-Mar-2023
12:41
linh
pham



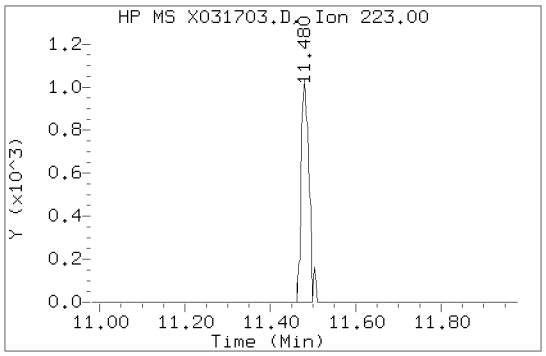
BEFORE

MASS
223
AREA
1310
HEIGHT
1034
30-Mar-2023
12:33
linh
pham



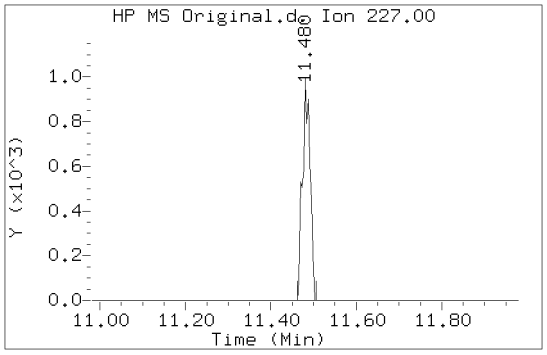
AFTER

MASS
223
AREA
1310
HEIGHT
1034
30-Mar-2023
12:41
linh
pham



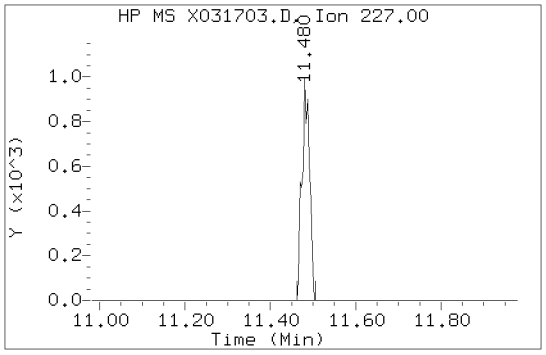
BEFORE

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

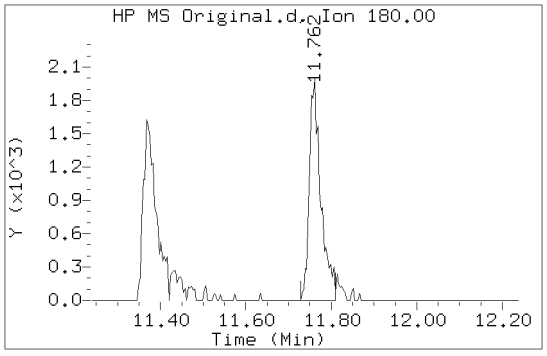


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

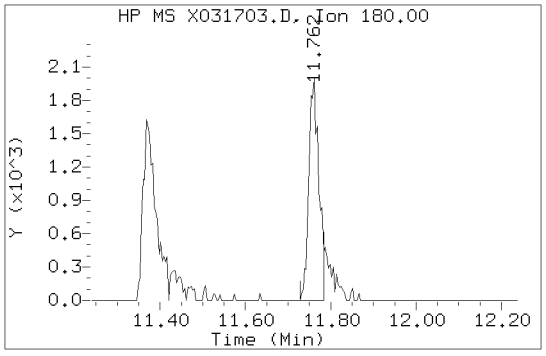
BEFORE

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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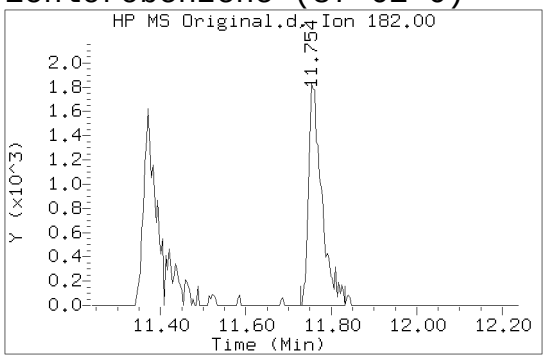
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

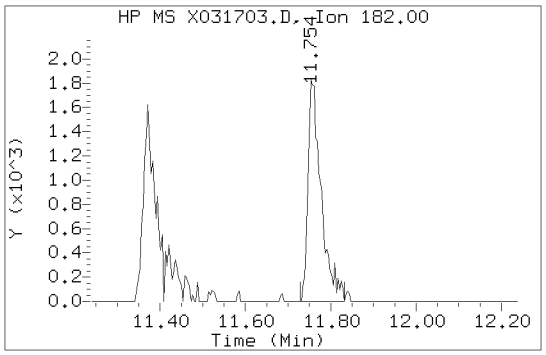
BEFORE

MASS
182
AREA
3920
HEIGHT
1829
30-Mar-2023
12:33
linh
pham



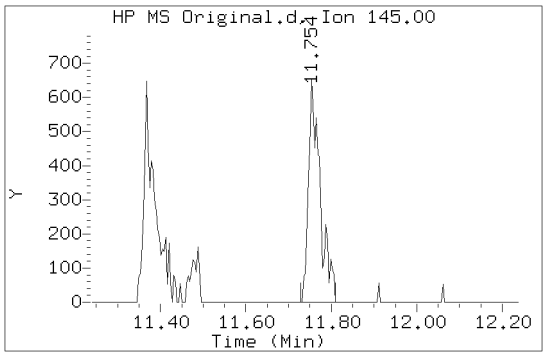
AFTER

MASS
182
AREA
3920
HEIGHT
1829
30-Mar-2023
12:41
linh
pham



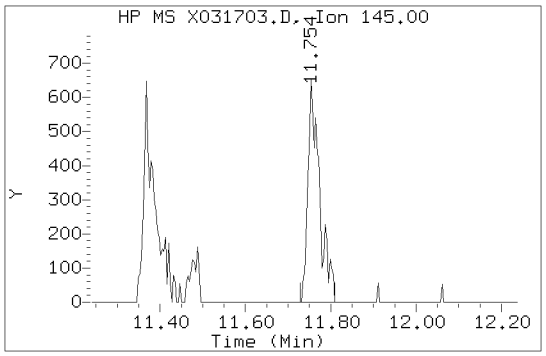
BEFORE

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

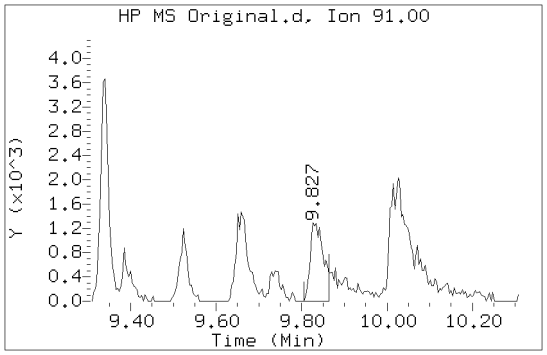


Benzyl Chloride (100-44-7)

Reason Code:

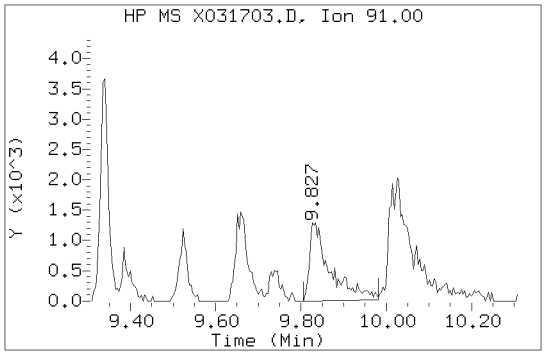
BEFORE

MASS
91
AREA
2784
HEIGHT
1288
30-Mar-2023
12:33
linh
pham



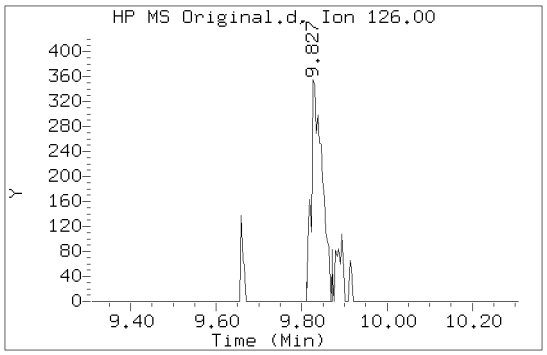
AFTER

MASS
91
AREA
4324
HEIGHT
1287
30-Mar-2023
12:41
linh
pham



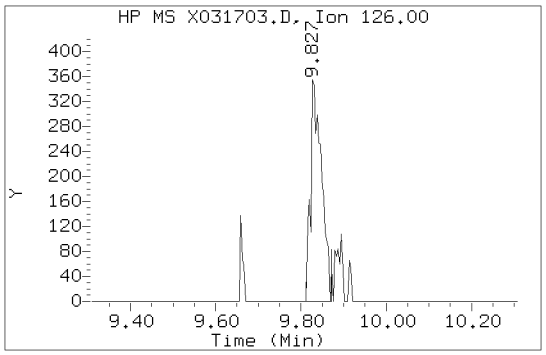
BEFORE

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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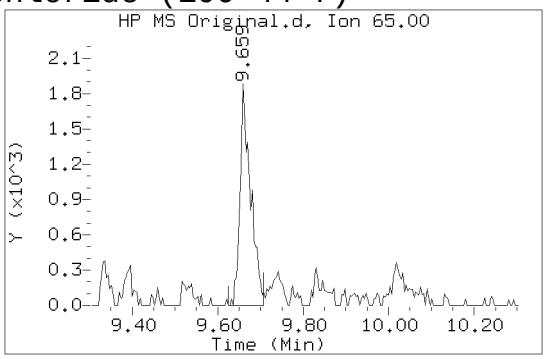
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Benzyl Chloride (100-44-7)

Reason Code:

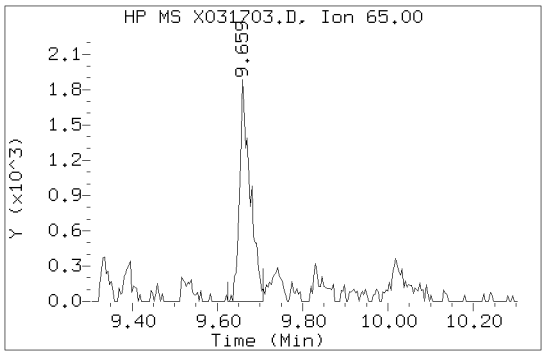
BEFORE

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

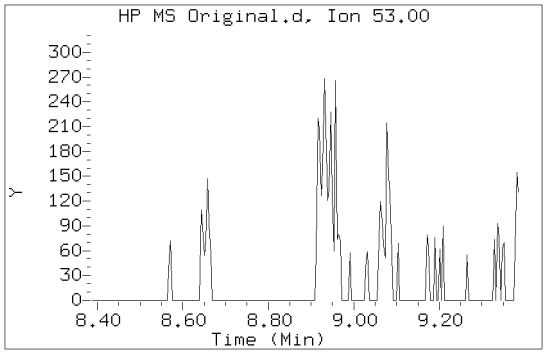


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

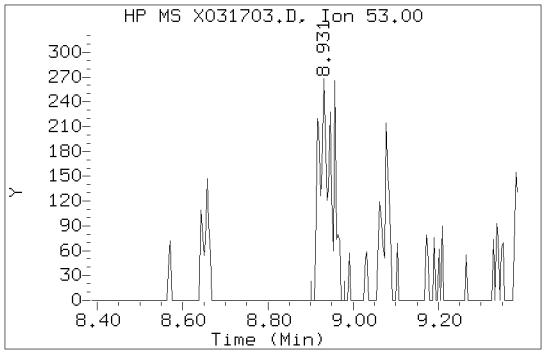
BEFORE

MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



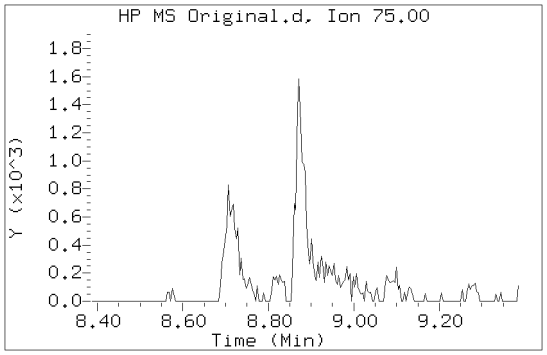
AFTER

MASS
53
AREA
541
HEIGHT
268
30-Mar-2023
12:41
linh
pham



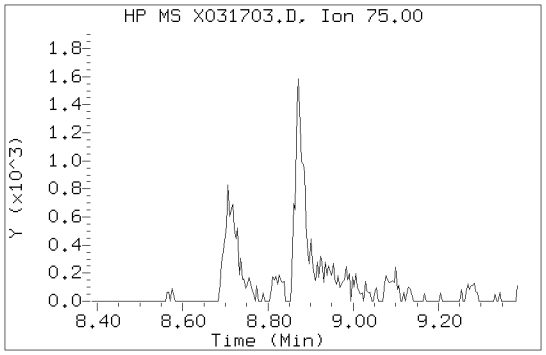
BEFORE

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

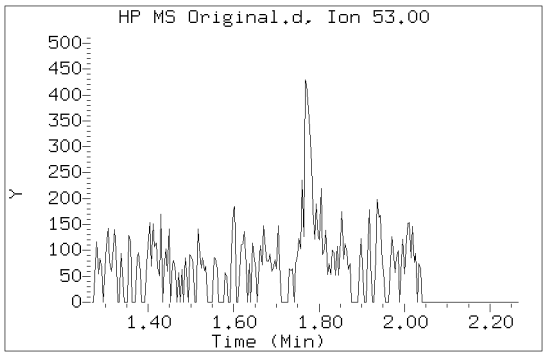


Chloroprene (126-99-8)

Reason Code:

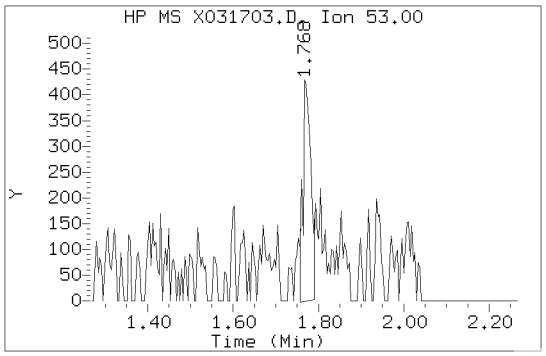
BEFORE

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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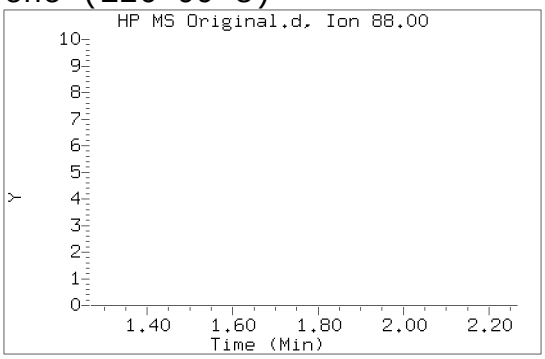
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Chloroprene (126-99-8)

Reason Code:

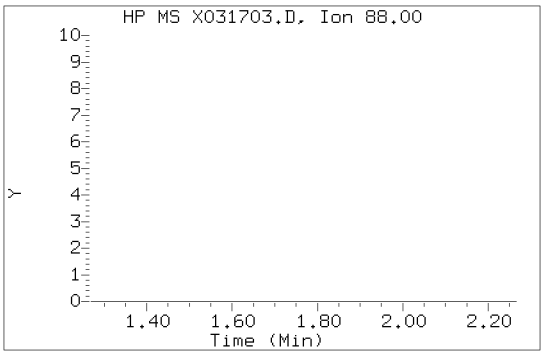
BEFORE

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

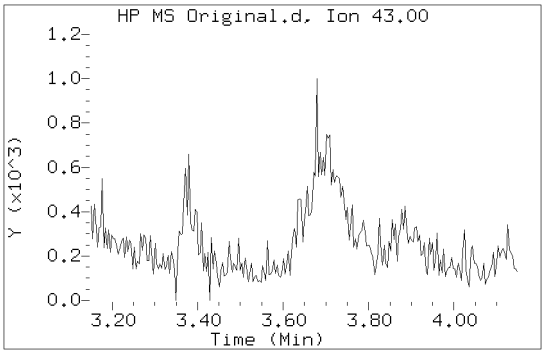


Ethyl Acetate (141-78-6)

Reason Code:

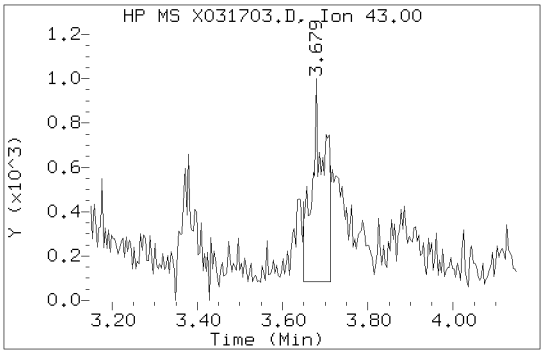
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



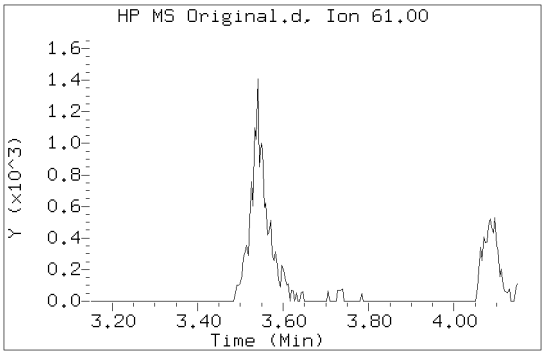
AFTER

MASS
43
AREA
1988
HEIGHT
916
30-Mar-2023
12:41
linh
pham



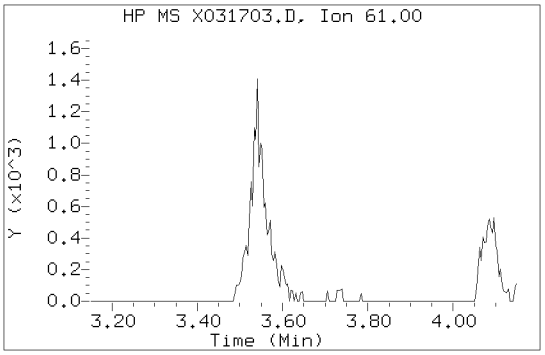
BEFORE

MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



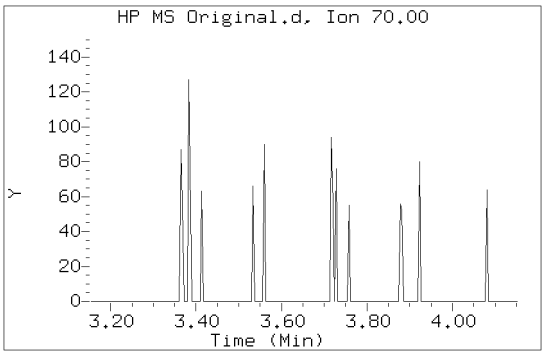
AFTER

MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



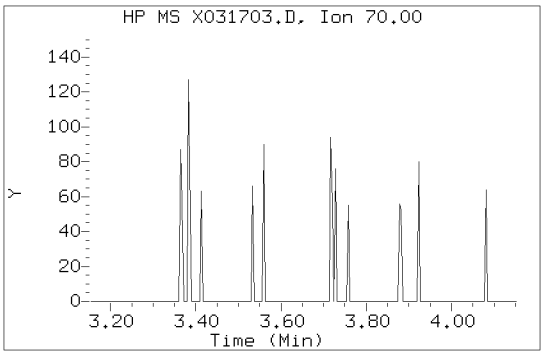
BEFORE

MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

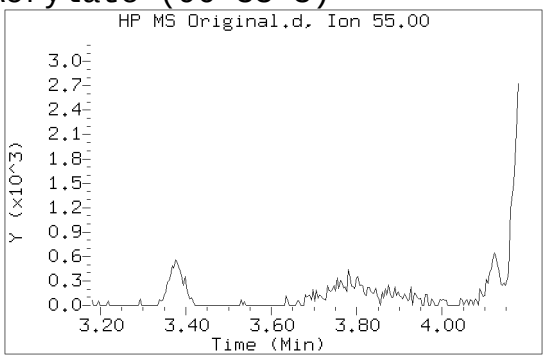
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

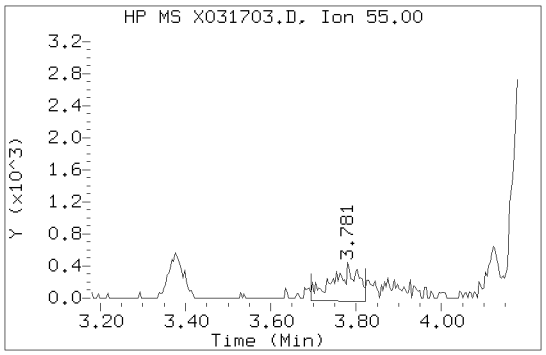
Methyl Acrylate (96-33-3)

BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

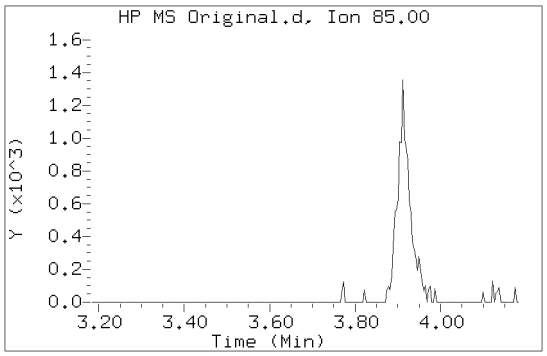


Reason Code:

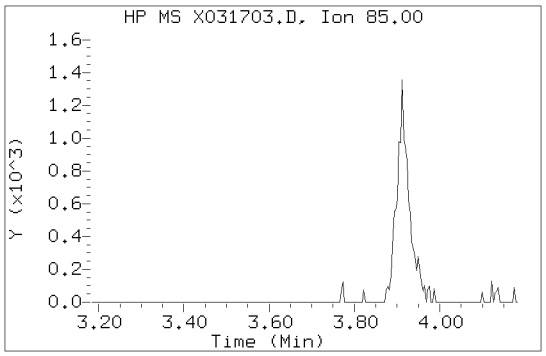
AFTER
MASS
55
AREA
1927
HEIGHT
487
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

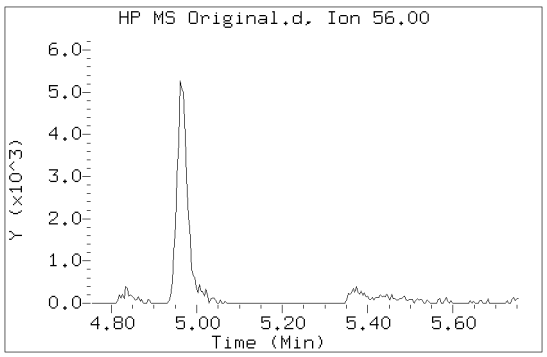


AFTER
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



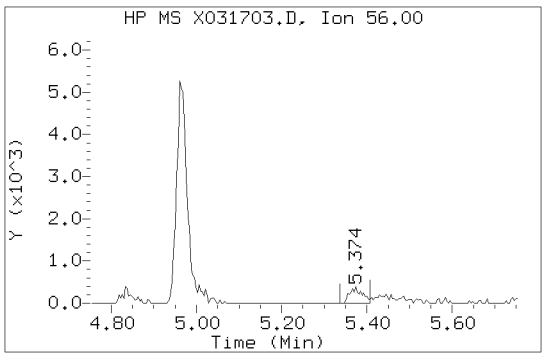
n-Butanol (71-36-3)

BEFORE
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

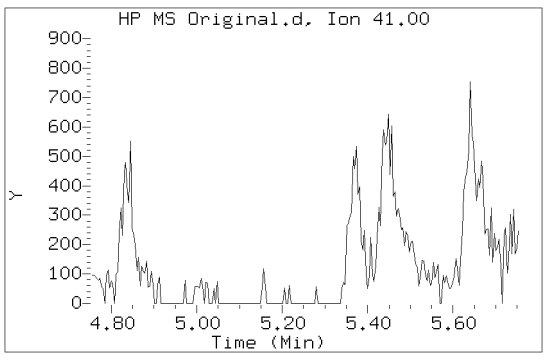


Reason Code:

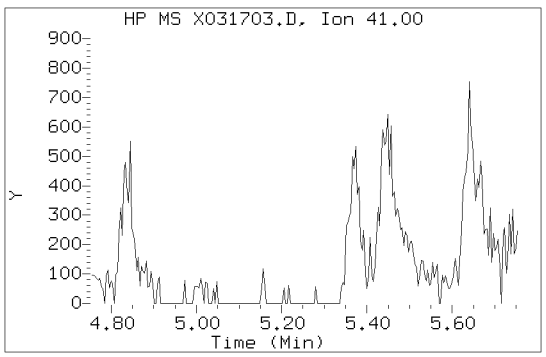
AFTER
MASS
56
AREA
783
HEIGHT
391
30-Mar-2023
12:41
linh
pham



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



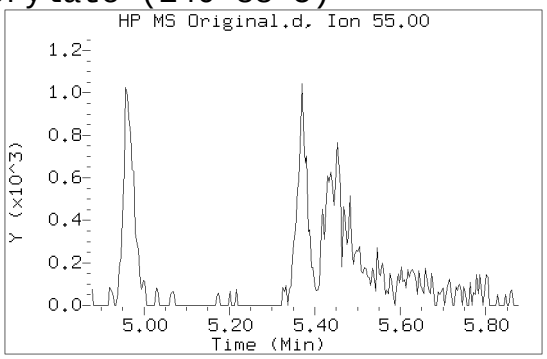
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Ethyl Acrylate (140-88-5)

Reason Code:

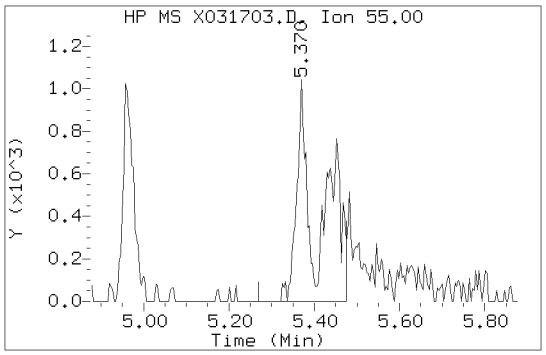
BEFORE

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



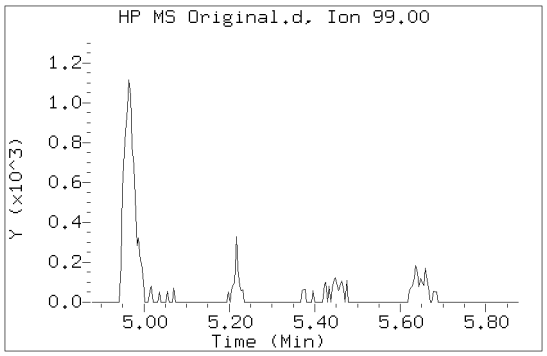
AFTER

MASS
55
AREA
3644
HEIGHT
1043
30-Mar-2023
12:41
linh
pham



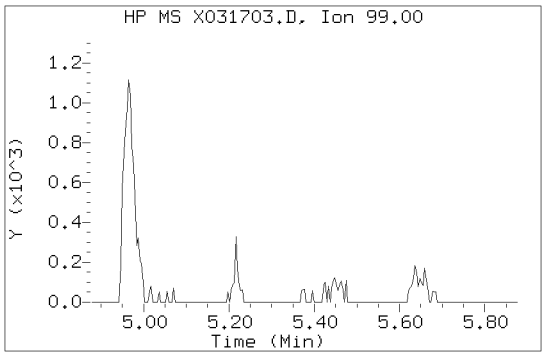
BEFORE

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

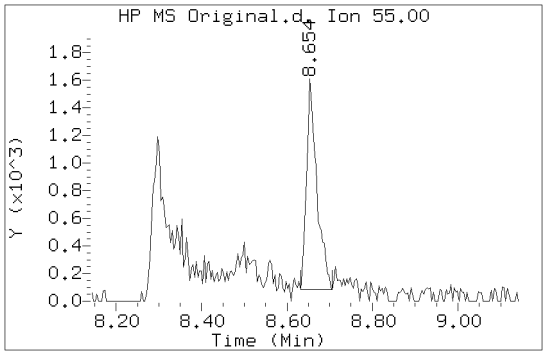


Cyclohexanone (108-94-1)

Reason Code:

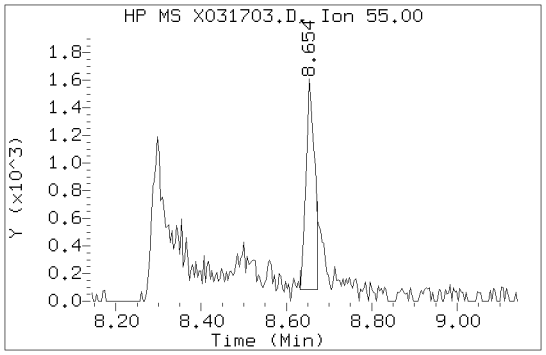
BEFORE

MASS
55
AREA
2583
HEIGHT
1526
30-Mar-2023
12:33
linh
pham



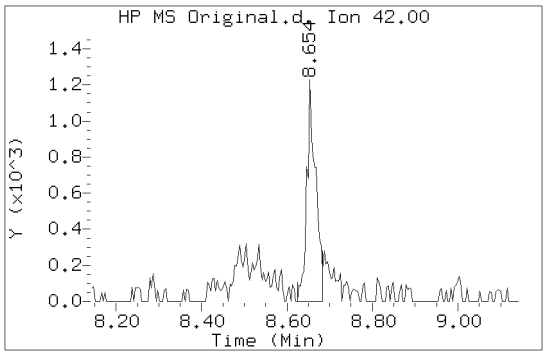
AFTER

MASS
55
AREA
2126
HEIGHT
1526
30-Mar-2023
12:41
linh
pham



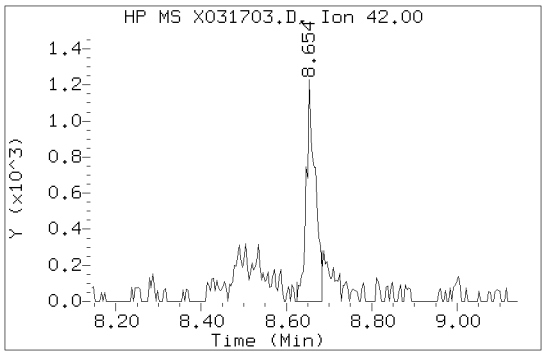
BEFORE

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

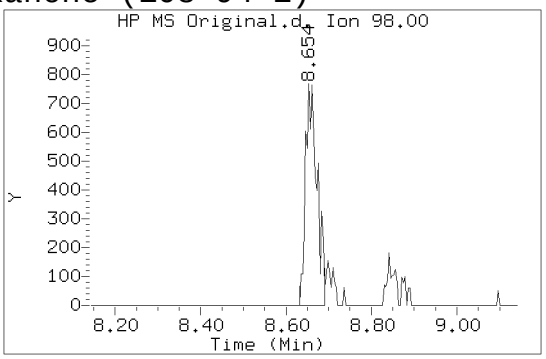


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Cyclohexanone (108-94-1)

BEFORE

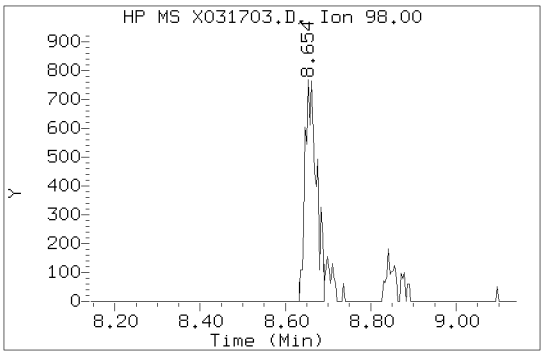
MASS
98
AREA
1442
HEIGHT
769
30-Mar-2023
12:33
linh
pham



AFTER

MASS
98
AREA
1442
HEIGHT
769
30-Mar-2023
12:41
linh
pham

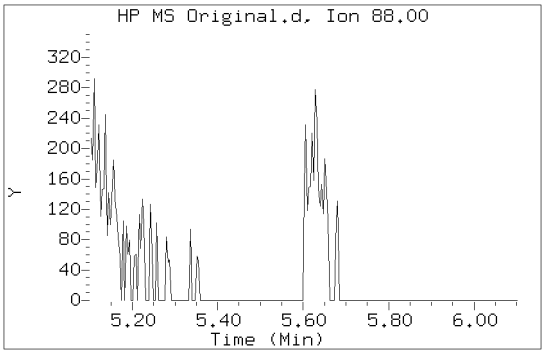
Reason Code:



1,4-Dioxane ()

BEFORE

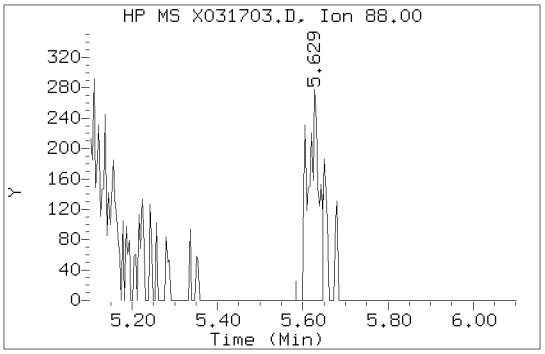
MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

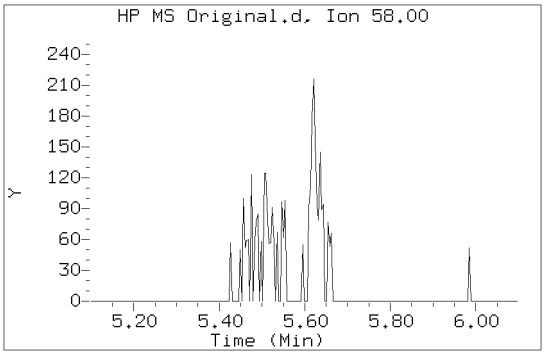
MASS
88
AREA
500
HEIGHT
278
30-Mar-2023
12:41
linh
pham

Reason Code:



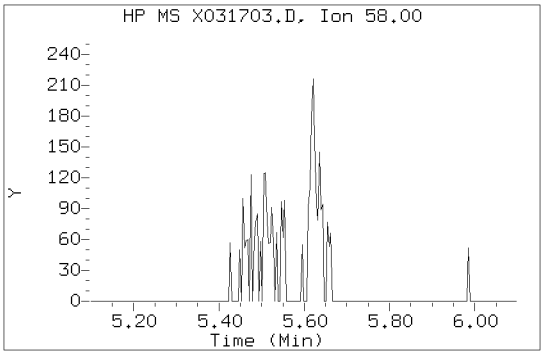
BEFORE

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

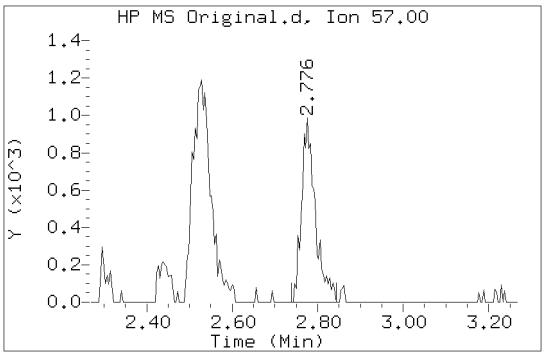
MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



n-Hexane (110-54-3)

BEFORE

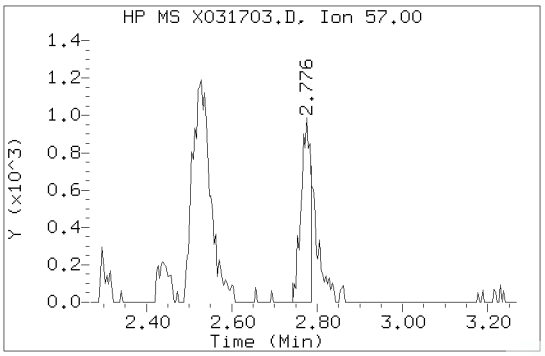
MASS
57
AREA
2232
HEIGHT
989
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
1555
HEIGHT
989
30-Mar-2023
12:41
linh
pham

Reason Code:



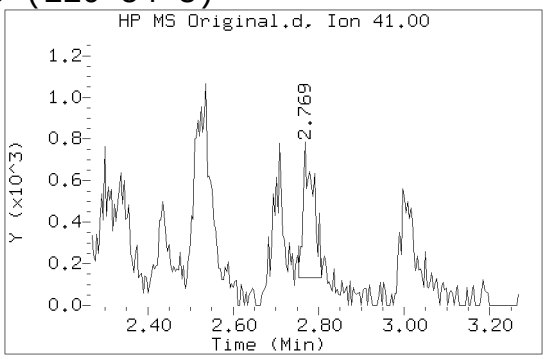
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

n-Hexane (110-54-3)

Reason Code:

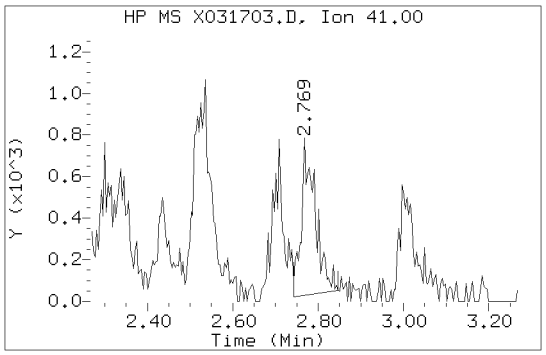
BEFORE

MASS
41
AREA
1101
HEIGHT
653
30-Mar-2023
12:33
linh
pham



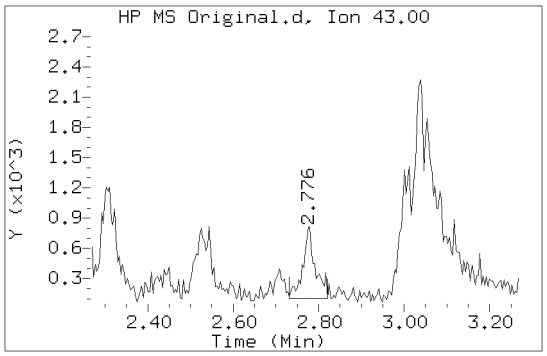
AFTER

MASS
41
AREA
1729
HEIGHT
755
30-Mar-2023
12:41
linh
pham



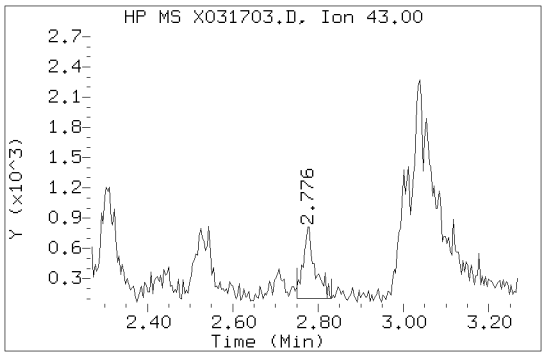
BEFORE

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

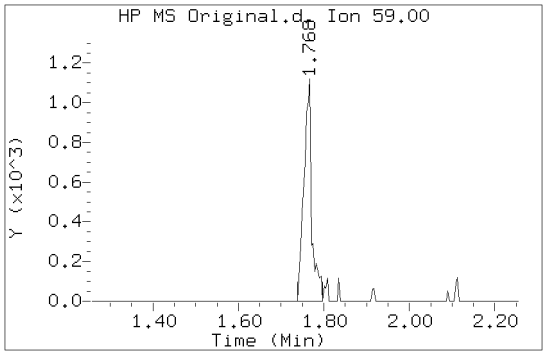


Diethyl ether (60-29-7)

Reason Code:

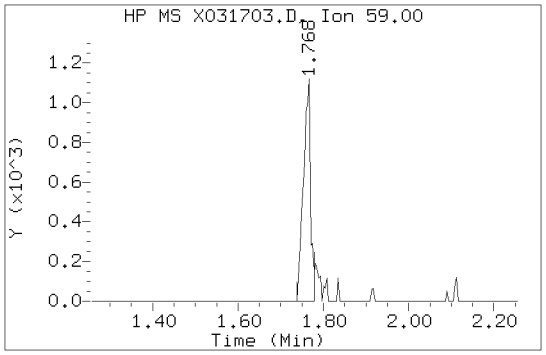
BEFORE

MASS
59
AREA
1465
HEIGHT
1120
30-Mar-2023
12:33
linh
pham



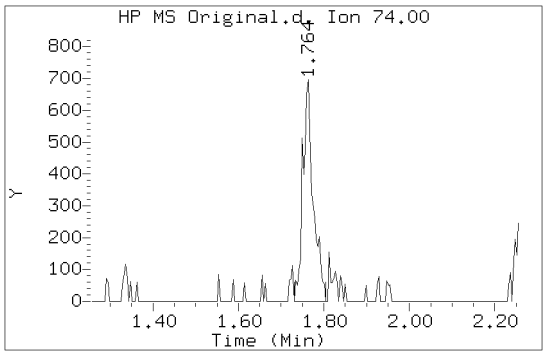
AFTER

MASS
59
AREA
1334
HEIGHT
1120
30-Mar-2023
12:41
linh
pham



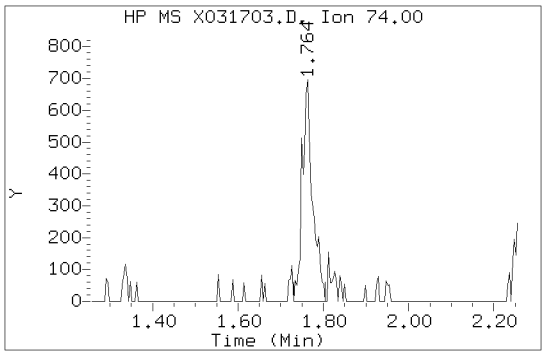
BEFORE

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

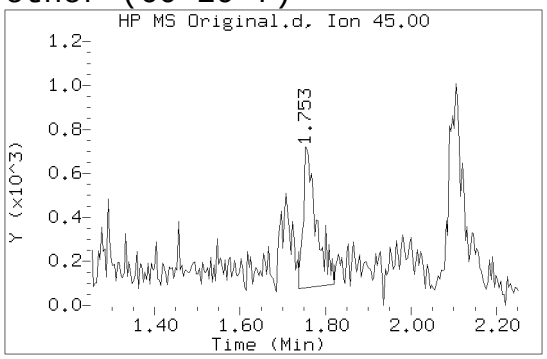


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Diethyl ether (60-29-7)

BEFORE

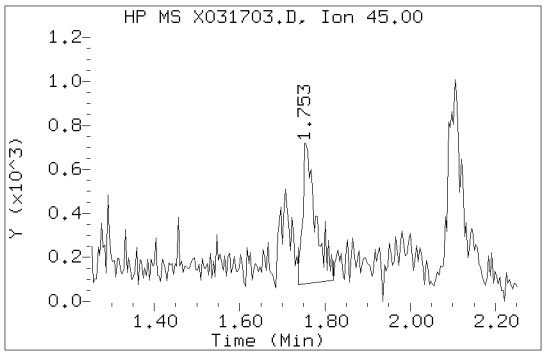
MASS
45
AREA
1387
HEIGHT
641
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

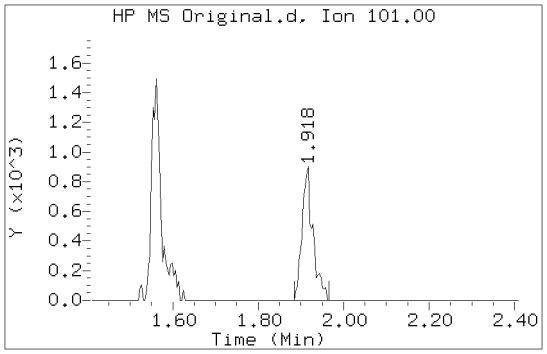
MASS
45
AREA
1387
HEIGHT
641
30-Mar-2023
12:41
linh
pham



Freon TF (76-13-1)

BEFORE

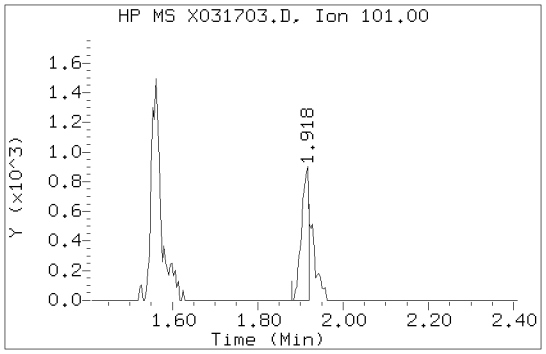
MASS
101
AREA
1607
HEIGHT
902
30-Mar-2023
12:33
linh
pham



Reason Code:

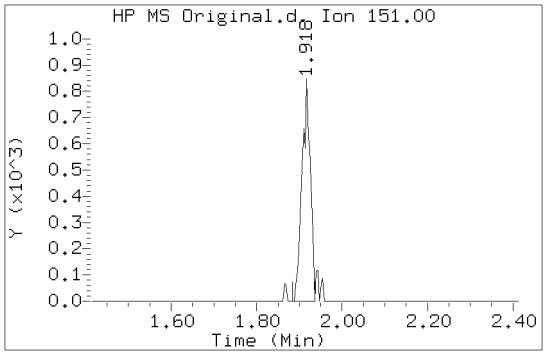
AFTER

MASS
101
AREA
1102
HEIGHT
902
30-Mar-2023
12:41
linh
pham



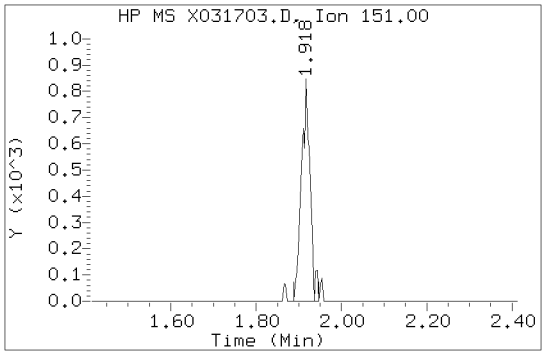
BEFORE

MASS
151
AREA
1172
HEIGHT
847
30-Mar-2023
12:33
linh
pham



AFTER

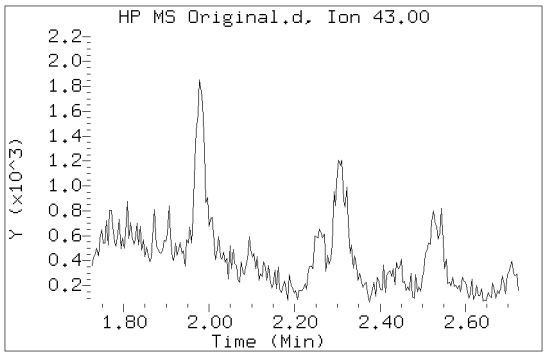
MASS
151
AREA
1224
HEIGHT
847
30-Mar-2023
12:41
linh
pham



Methyl acetate (79-20-9)

BEFORE

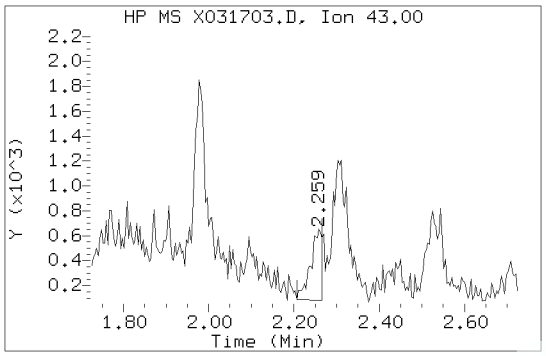
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
43
AREA
1057
HEIGHT
572
30-Mar-2023
12:41
linh
pham



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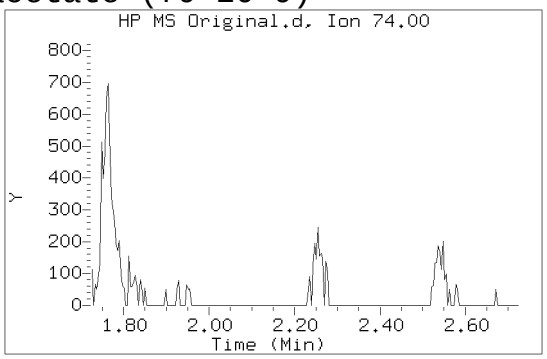
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methyl acetate (79-20-9)

Reason Code:

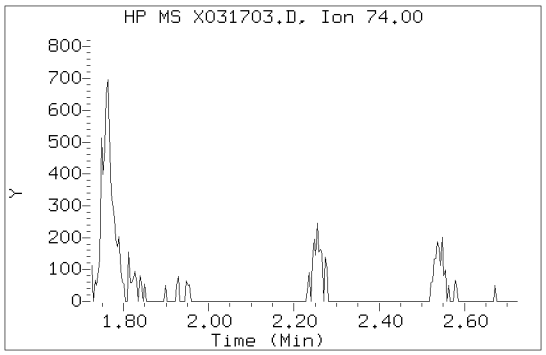
BEFORE

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

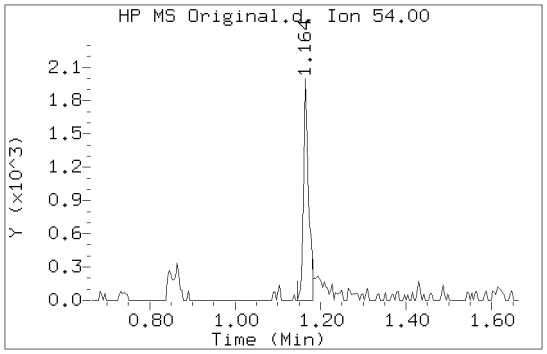


1,3-Butadiene (106-99-0)

Reason Code:

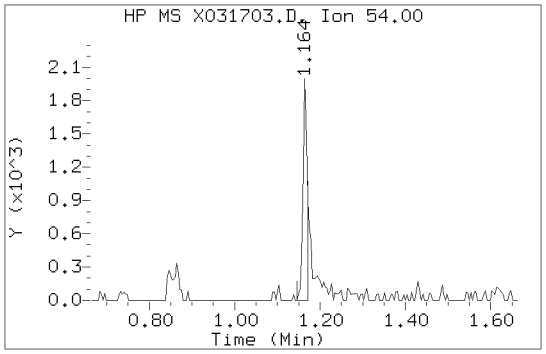
BEFORE

MASS
54
AREA
1678
HEIGHT
1998
30-Mar-2023
12:33
linh
pham



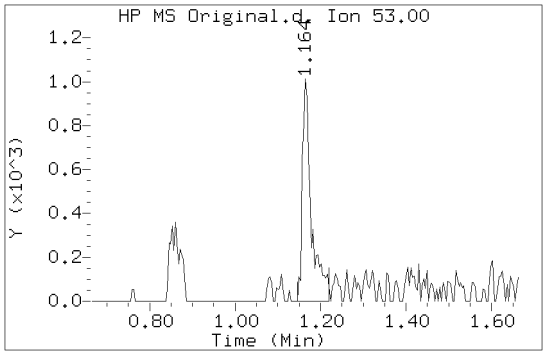
AFTER

MASS
54
AREA
1361
HEIGHT
1998
30-Mar-2023
12:41
linh
pham



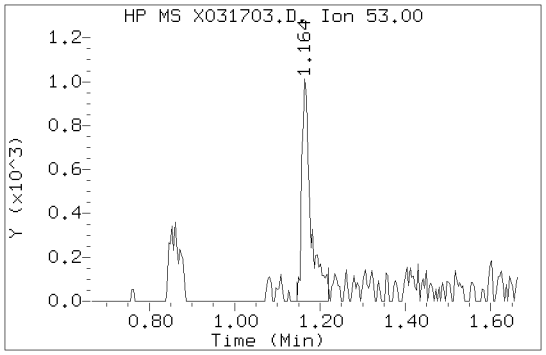
BEFORE

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

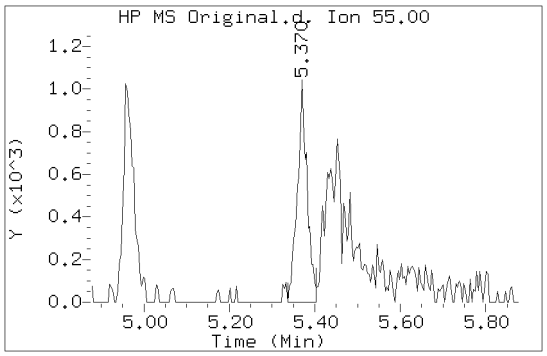


Methylcyclohexane (108-87-2)

Reason Code:

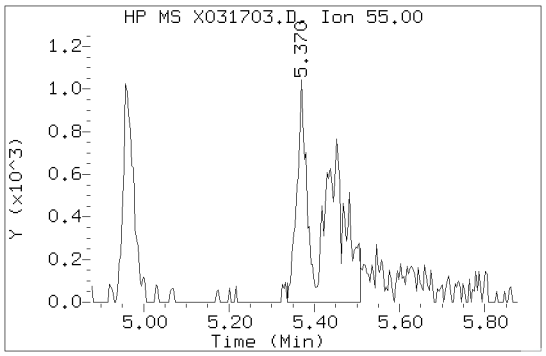
BEFORE

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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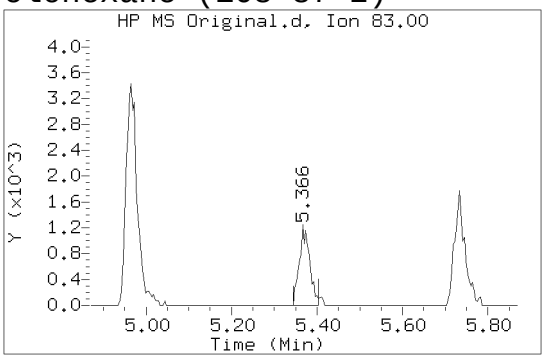
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Methylcyclohexane (108-87-2)

Reason Code:

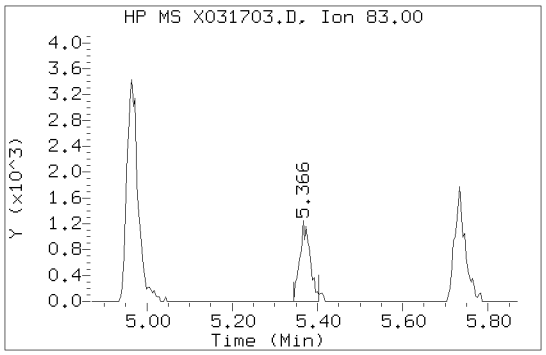
BEFORE

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

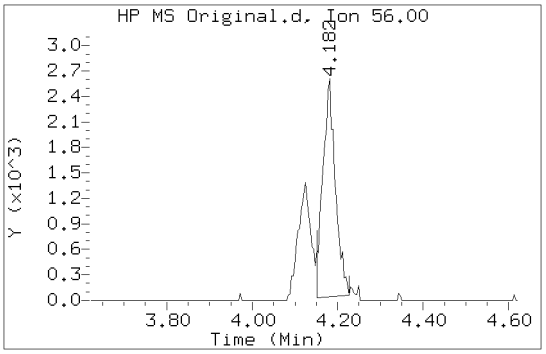


Cyclohexane (110-82-7)

Reason Code:

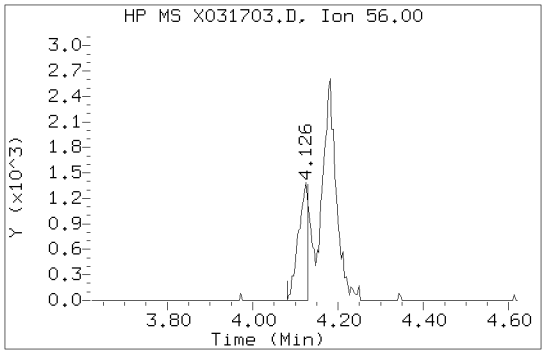
BEFORE

MASS
56
AREA
5280
HEIGHT
2569
30-Mar-2023
12:33
linh
pham



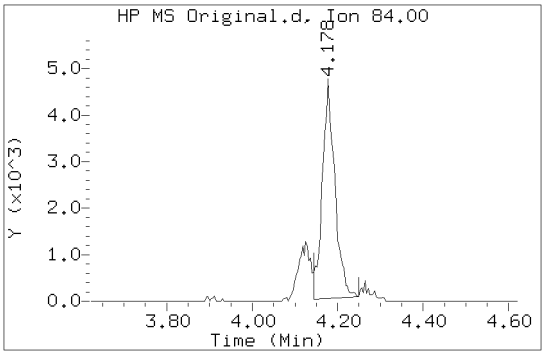
AFTER

MASS
56
AREA
2139
HEIGHT
1387
30-Mar-2023
12:41
linh
pham



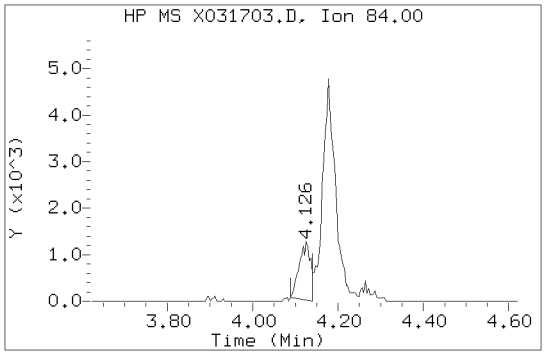
BEFORE

MASS
84
AREA
9592
HEIGHT
4720
30-Mar-2023
12:33
linh
pham



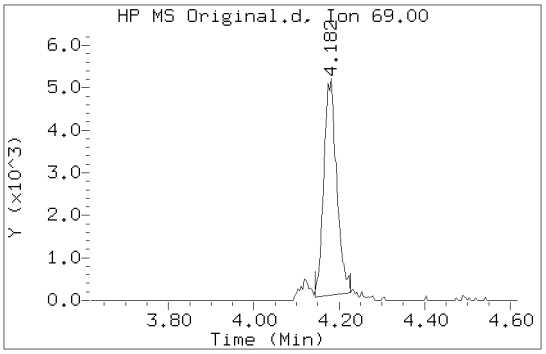
AFTER

MASS
84
AREA
2339
HEIGHT
1264
30-Mar-2023
12:41
linh
pham



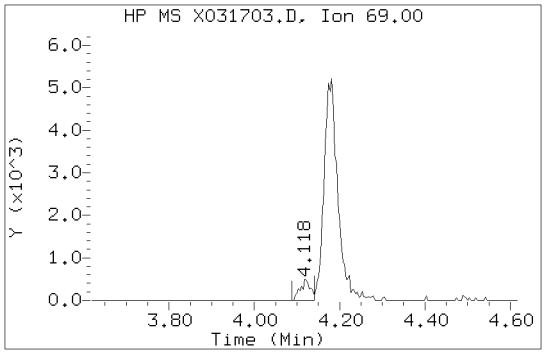
BEFORE

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

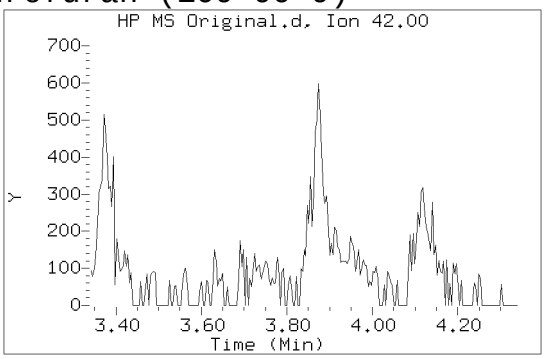


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

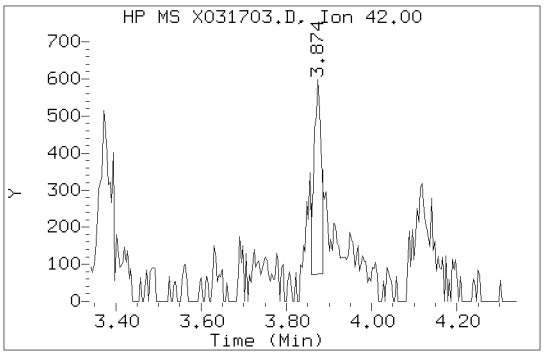
Tetrahydrofuran (109-99-9)

Reason Code:

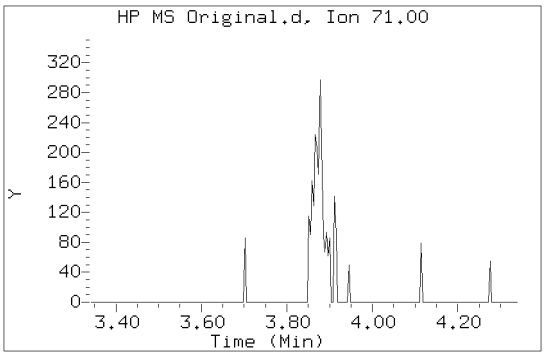
BEFORE
MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



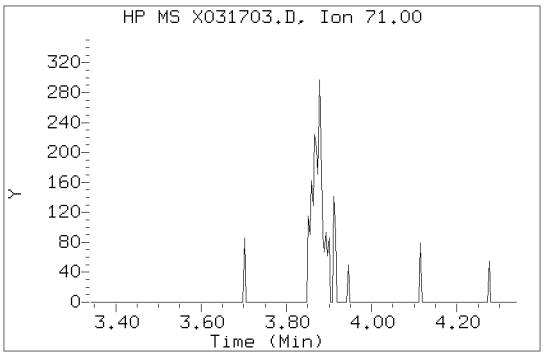
AFTER
MASS
42
AREA
614
HEIGHT
524
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
71
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



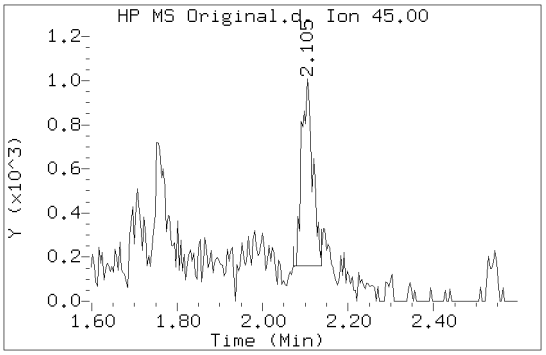
AFTER
MASS
71
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



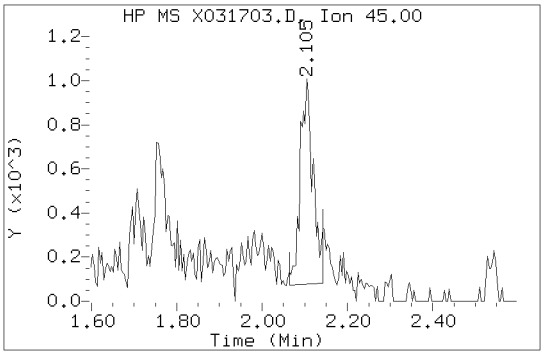
Isopropyl alcohol (67-63-0)

Reason Code:

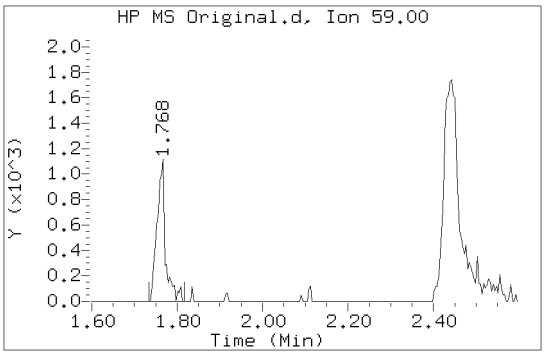
BEFORE
MASS
45
AREA
1548
HEIGHT
848
30-Mar-2023
12:33
linh
pham



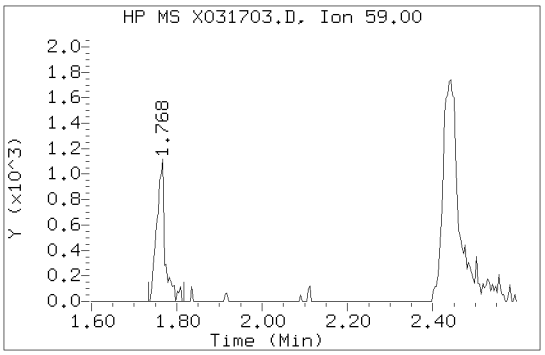
AFTER
MASS
45
AREA
1979
HEIGHT
930
30-Mar-2023
12:41
linh
pham



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



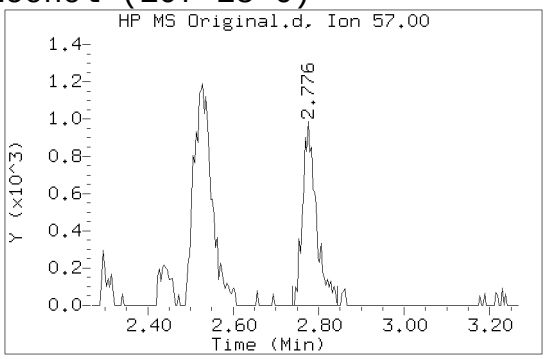
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Allyl alcohol (107-18-6)

Reason Code:

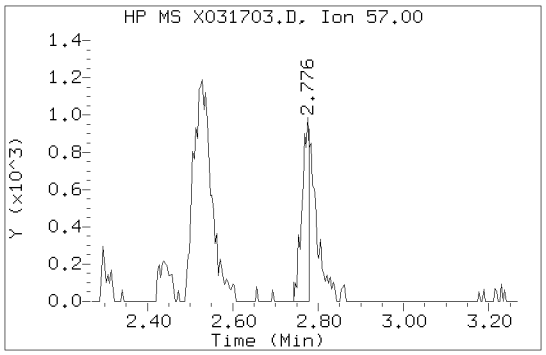
BEFORE

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

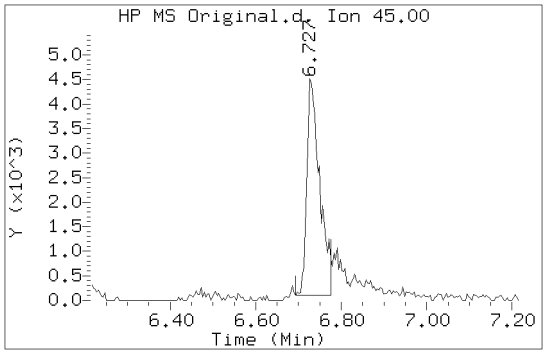


4-Methyl-2-pentanol (108-11-2)

Reason Code:

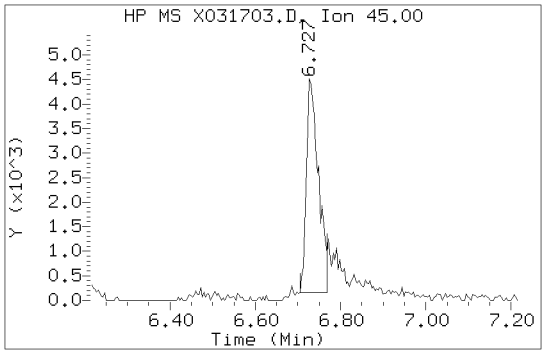
BEFORE

MASS
45
AREA
9346
HEIGHT
4407
30-Mar-2023
12:33
linh
pham



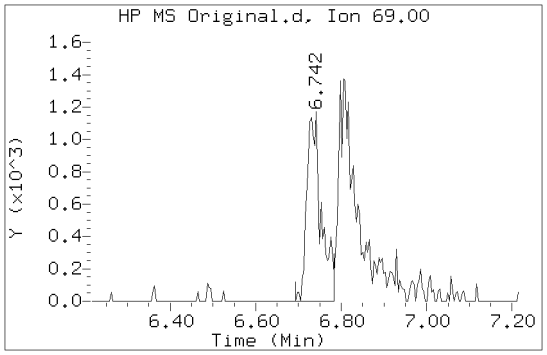
AFTER

MASS
45
AREA
8689
HEIGHT
4355
30-Mar-2023
12:41
linh
pham



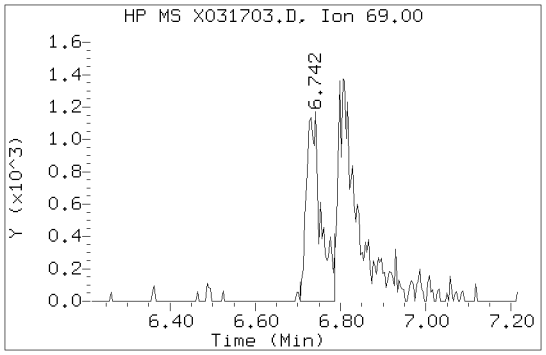
BEFORE

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

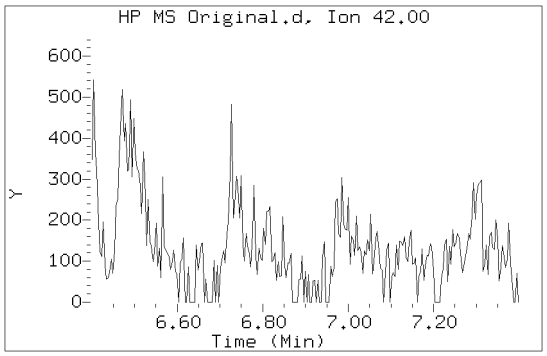


Amyl alcohol (71-41-0)

Reason Code:

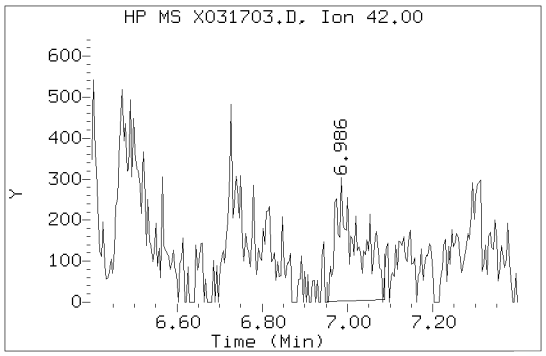
BEFORE

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

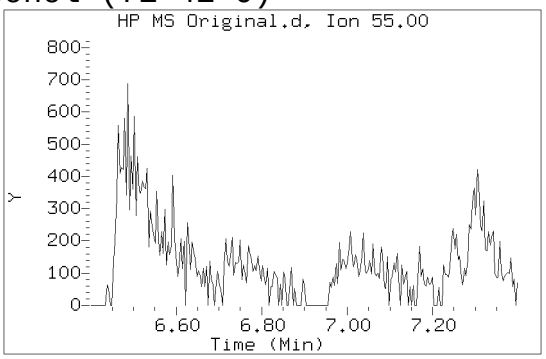


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Amyl alcohol (71-41-0)

BEFORE

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

MASS
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HEIGHT
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30-Mar-2023
12:33
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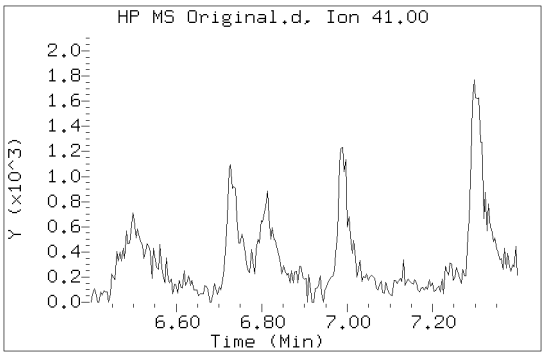

Reason Code:

AFTER

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30-Mar-2023
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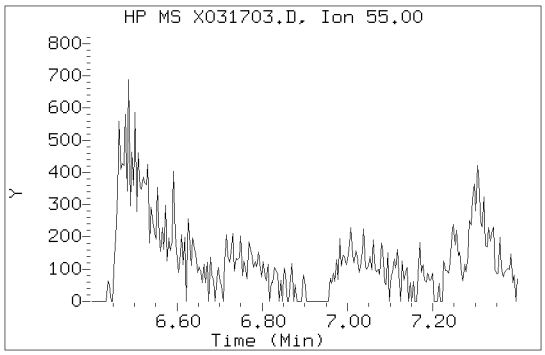

AFTER

MASS
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30-Mar-2023
12:41
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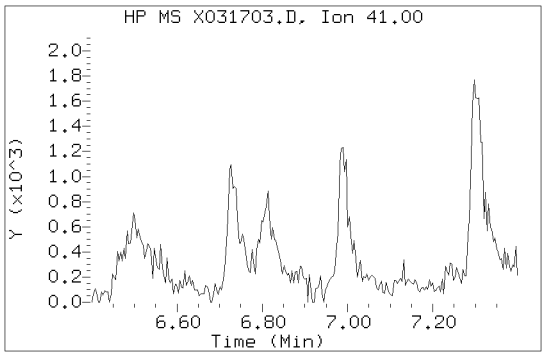
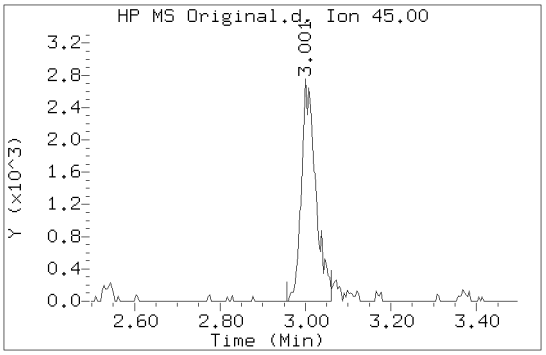


Diisopropyl ether (108-20-3)

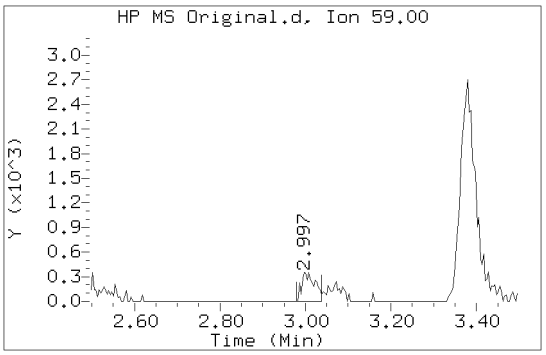
BEFORE

MASS
45
AREA
6493
HEIGHT
2756
30-Mar-2023
12:33
linh
pham



BEFORE

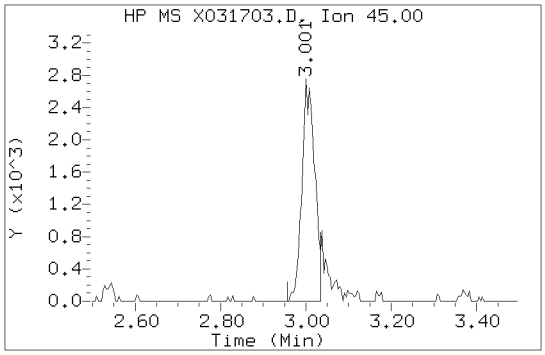
MASS
59
AREA
777
HEIGHT
355
30-Mar-2023
12:33
linh
pham



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
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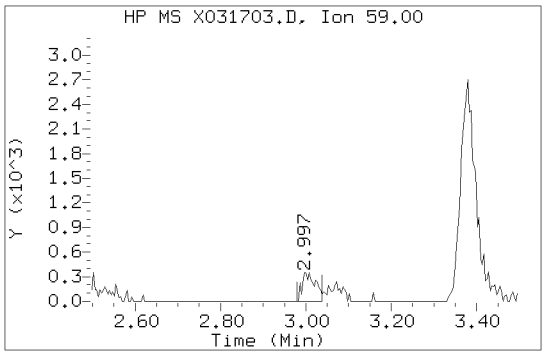

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Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Diisopropyl ether (108-20-3)

Reason Code:

BEFORE
MASS
72
AREA
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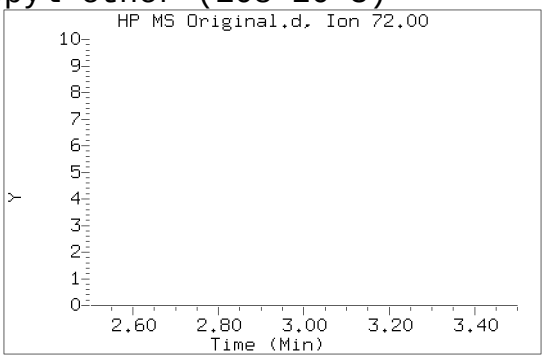
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
72
AREA
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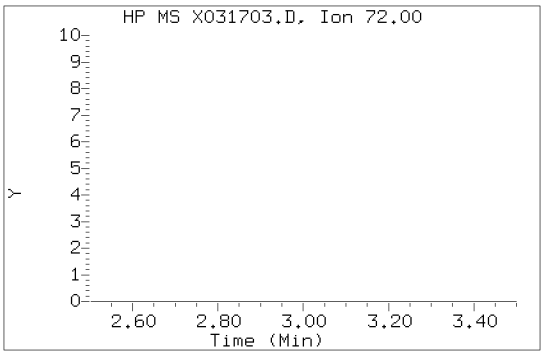
HEIGHT
0
30-Mar-2023
12:41
linh
pham



Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE
MASS
67
AREA
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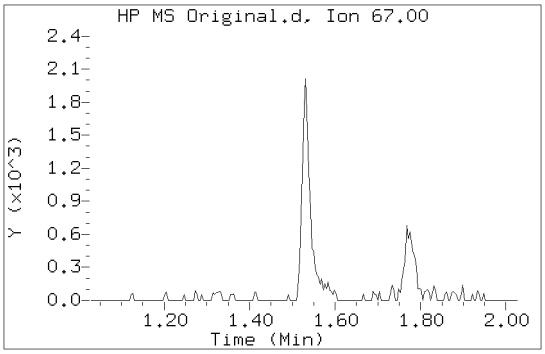
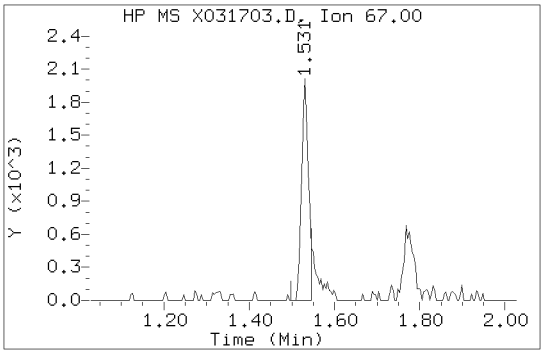
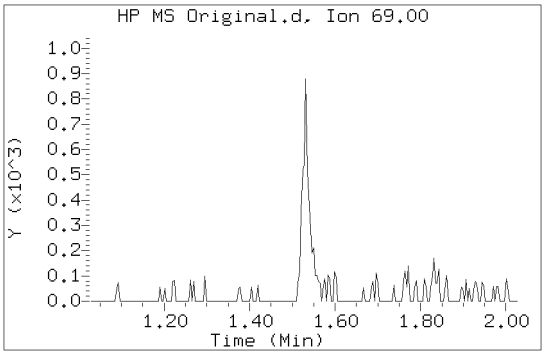
HEIGHT
0
30-Mar-2023
12:33
linh
pham



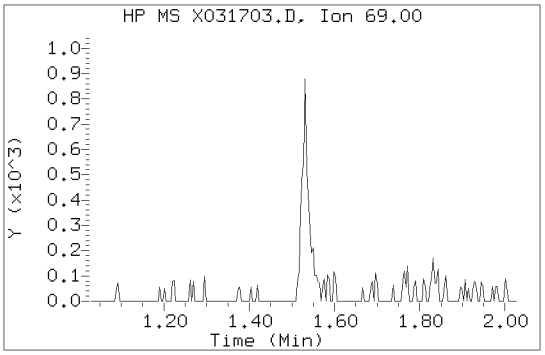
AFTER
MASS
67
AREA
2337
HEIGHT
2013
30-Mar-2023
12:41
linh
pham



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
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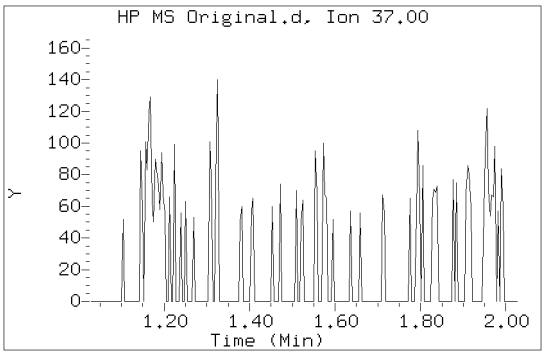
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
37
AREA
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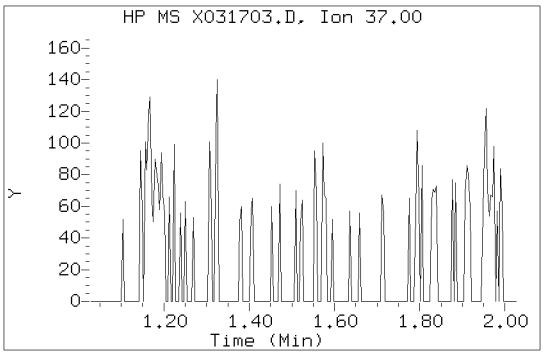
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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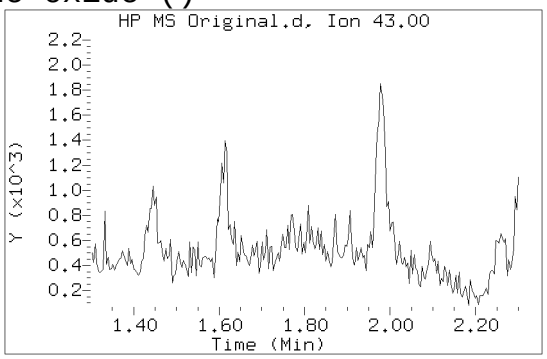
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

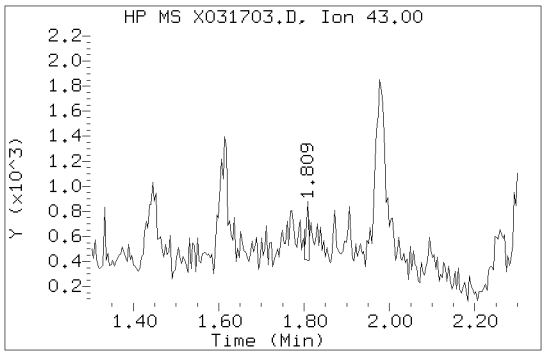
Propylene oxide ()

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
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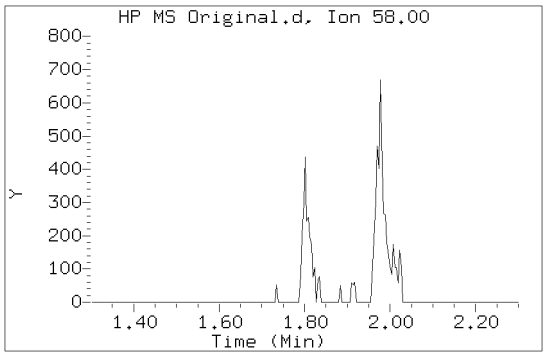
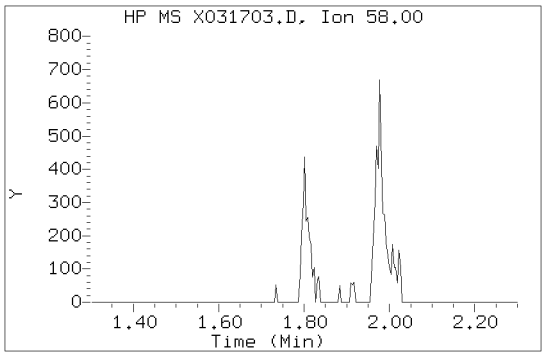
HEIGHT
0
30-Mar-2023
12:33
linh
pham



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
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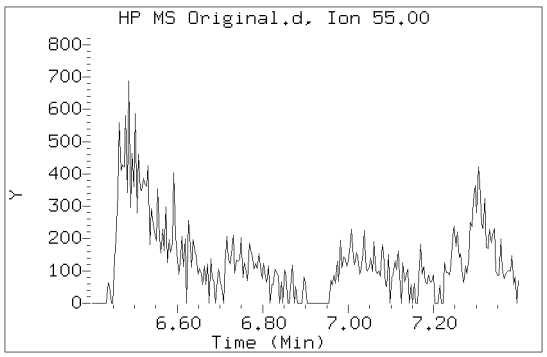
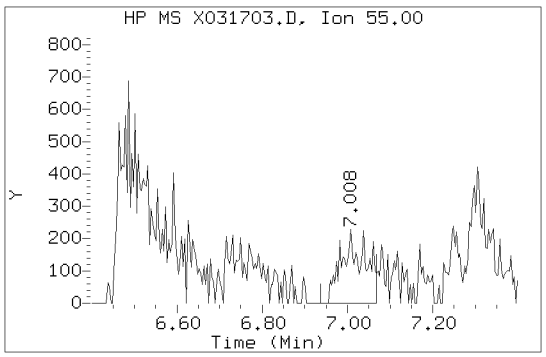
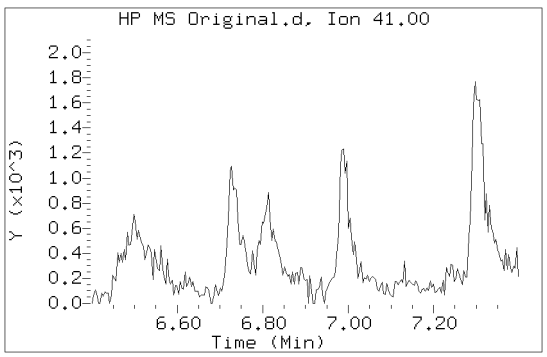
HEIGHT
0
30-Mar-2023
12:33
linh
pham



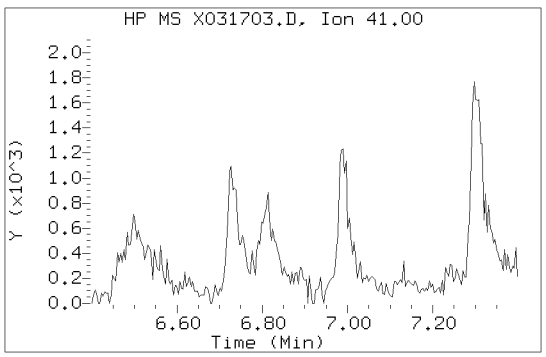
AFTER
MASS
55
AREA
851
HEIGHT
229
30-Mar-2023
12:41
linh
pham



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



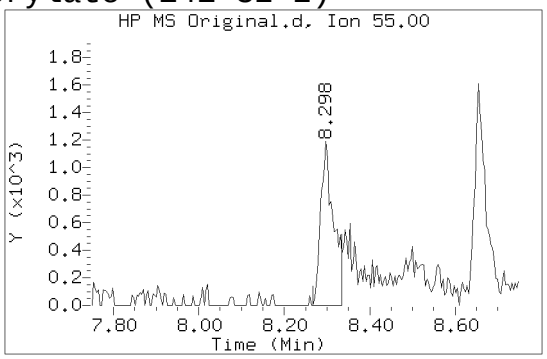
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Butyl acrylate (141-32-2)

Reason Code:

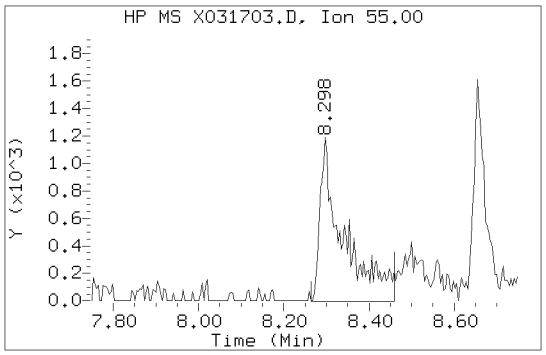
BEFORE

MASS
55
AREA
2500
HEIGHT
1190
30-Mar-2023
12:33
linh
pham



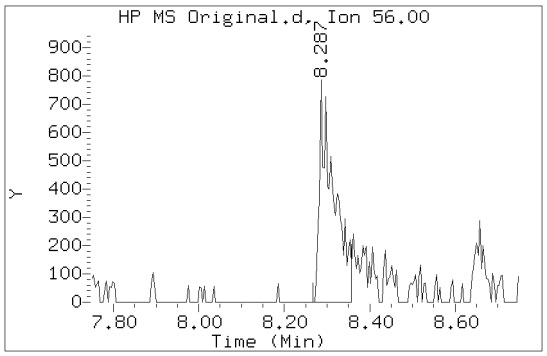
AFTER

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
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HEIGHT
786
30-Mar-2023
12:41
linh
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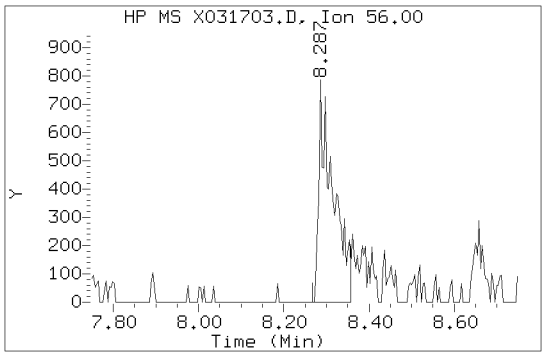
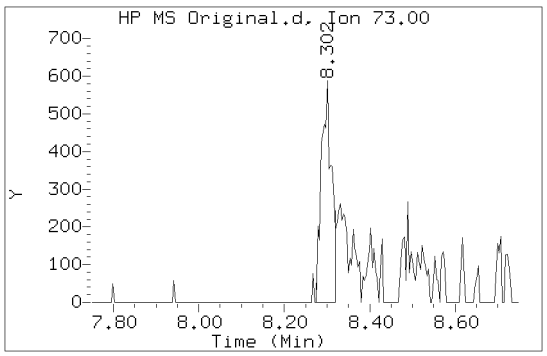


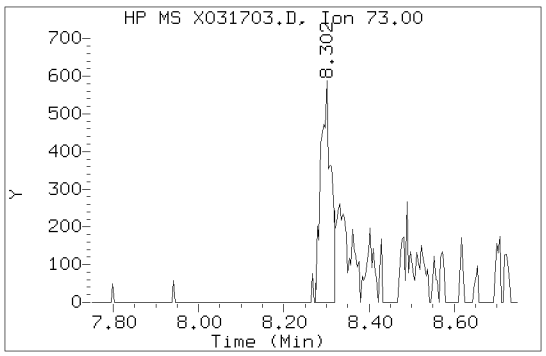
BEFORE

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

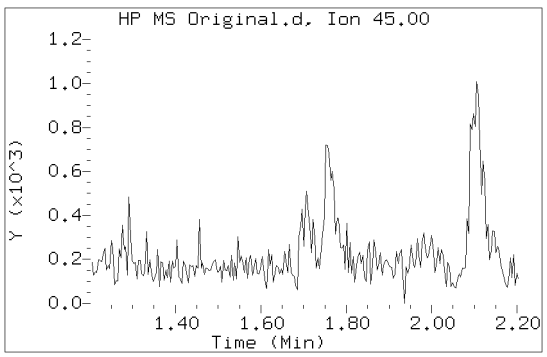


Ethanol (64-17-5)

Reason Code:

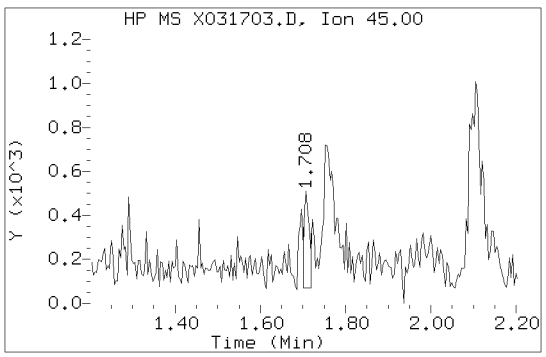
BEFORE

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

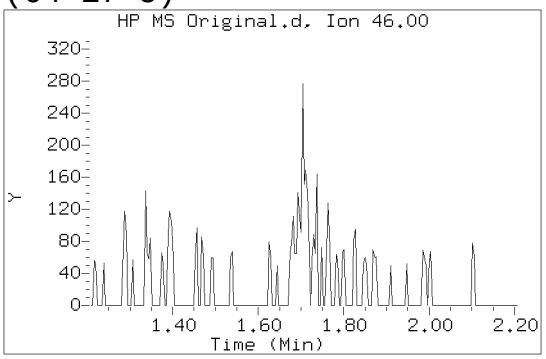


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031703.D
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Ethanol (64-17-5)

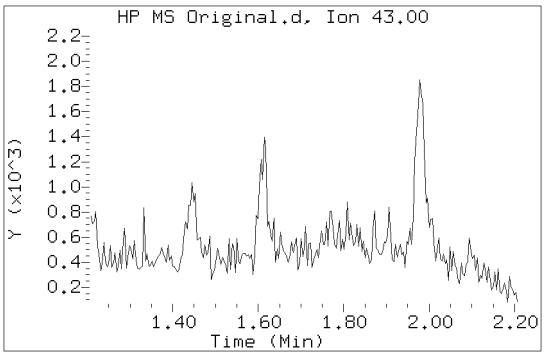
BEFORE

MASS
46
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

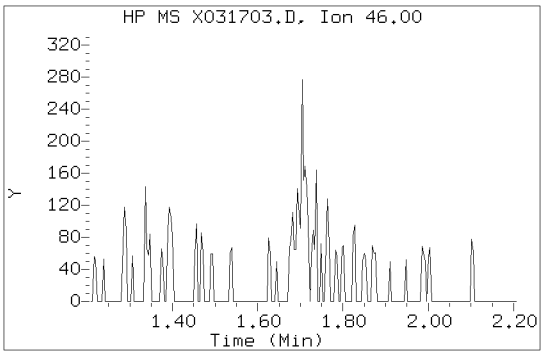
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

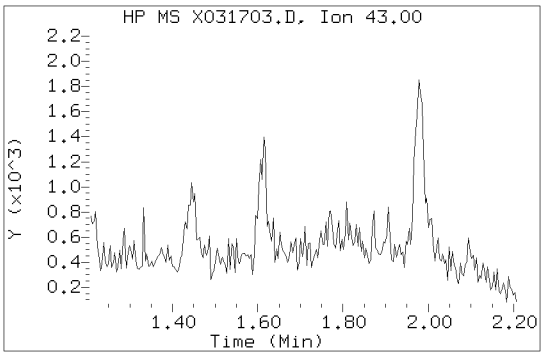
AFTER

MASS
46
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



AFTER

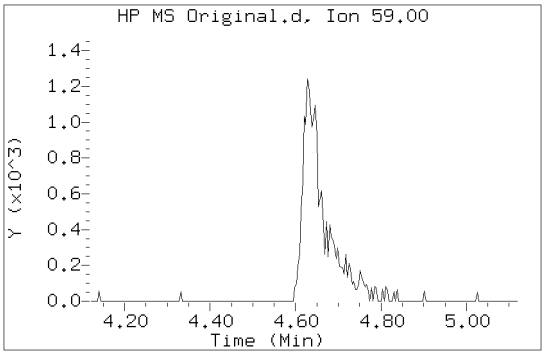
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



tert-Butyl formate (762-75-4)

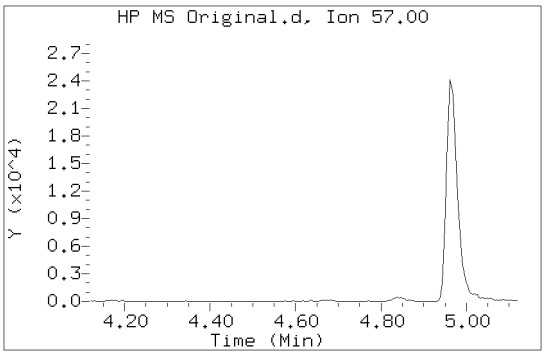
BEFORE

MASS
59
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

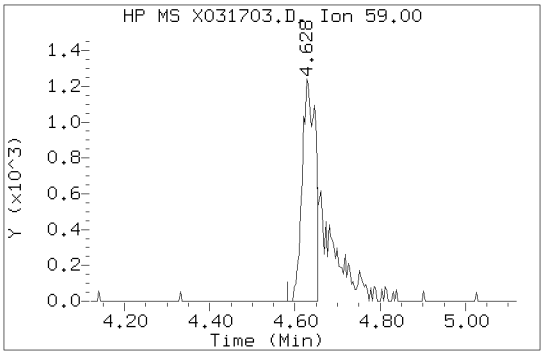
MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

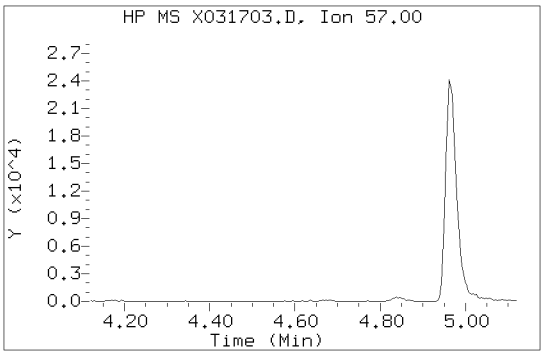
AFTER

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



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 formate (762-75-4)

Reason Code:

BEFORE

MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
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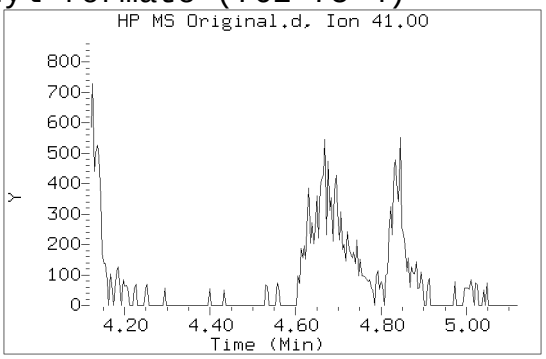

AFTER

MASS
41
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HEIGHT
0
30-Mar-2023
12:41
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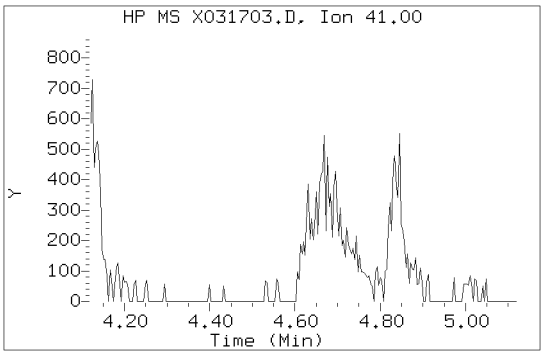

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE

MASS
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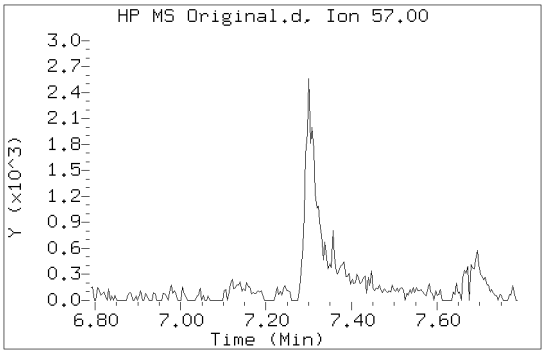
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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2561
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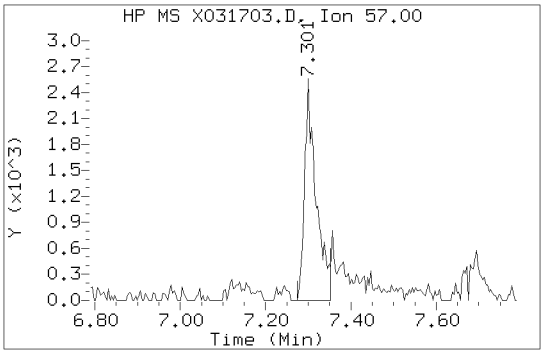
pham



BEFORE

MASS
67
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0
30-Mar-2023
12:33
linh
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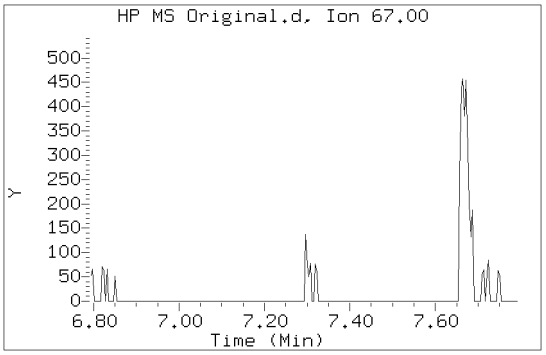

AFTER

MASS
67
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HEIGHT
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30-Mar-2023
12:41
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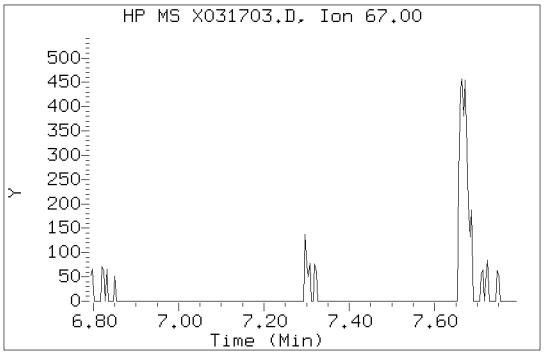

BEFORE

MASS
56
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HEIGHT
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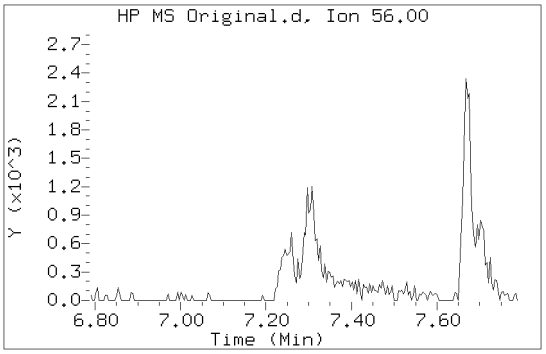
30-Mar-2023
12:33
linh
pham



AFTER

MASS
56
AREA
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HEIGHT
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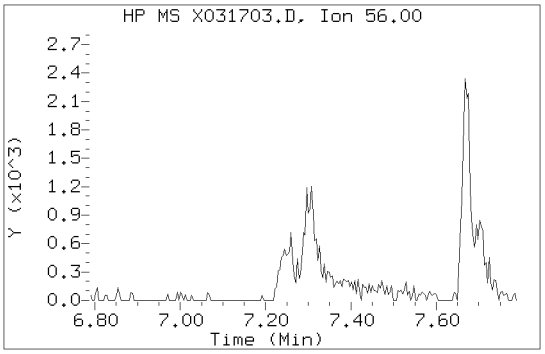
30-Mar-2023
12:41
linh
pham



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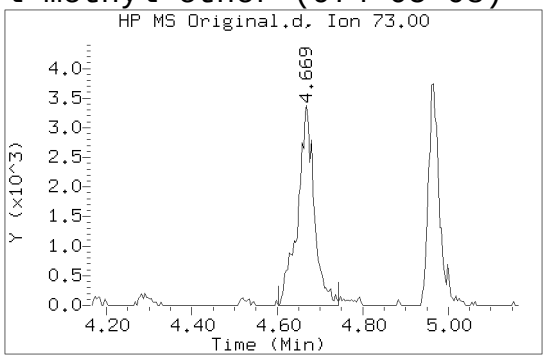
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Amyl methyl ether (974-05-08)

Reason Code:

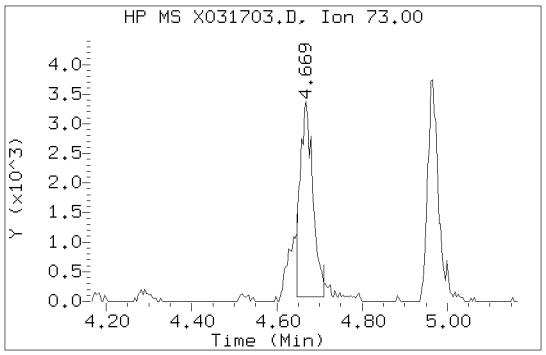
BEFORE

MASS
73
AREA
9221
HEIGHT
3379
30-Mar-2023
12:33
linh
pham



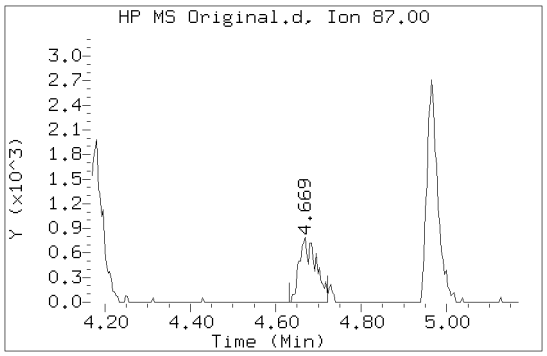
AFTER

MASS
73
AREA
7050
HEIGHT
3307
30-Mar-2023
12:41
linh
pham



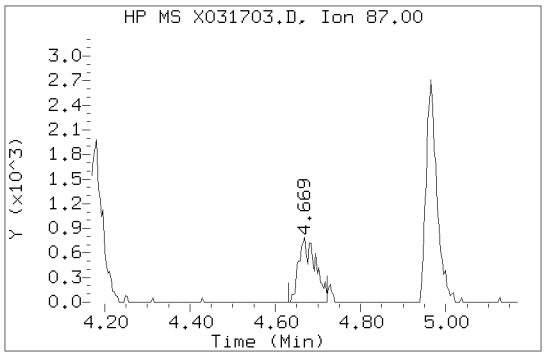
BEFORE

MASS
87
AREA
2185
HEIGHT
790
30-Mar-2023
12:33
linh
pham



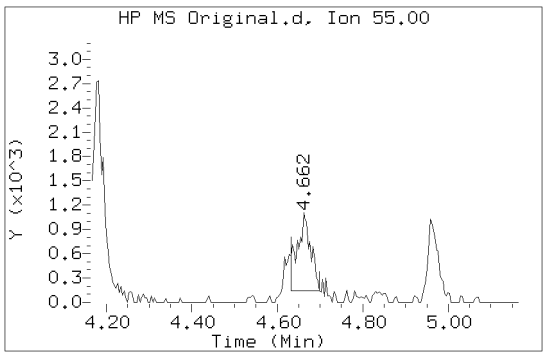
AFTER

MASS
87
AREA
2185
HEIGHT
790
30-Mar-2023
12:41
linh
pham



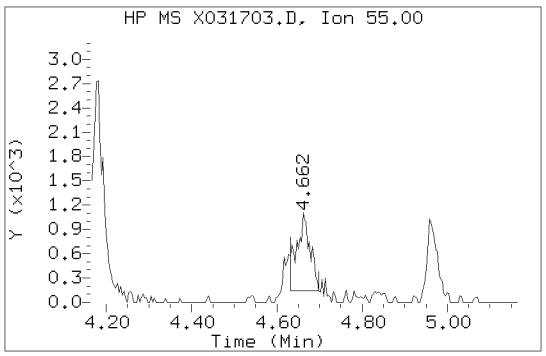
BEFORE

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

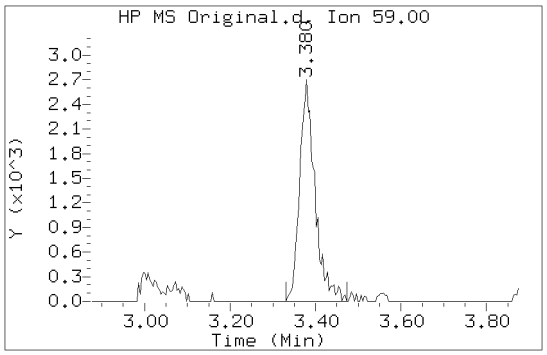


tert-Butyl ethyl ether (637-92-3)

Reason Code:

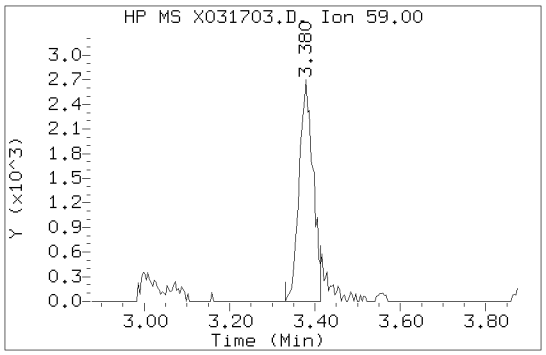
BEFORE

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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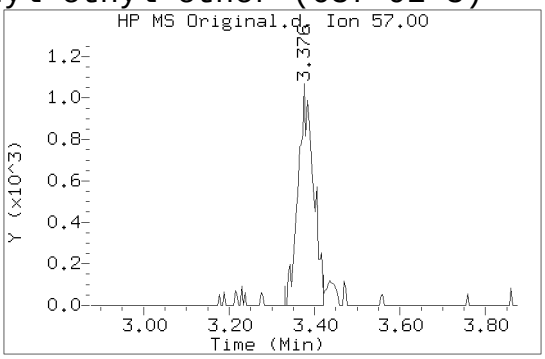
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

tert-Butyl ethyl ether (637-92-3)

Reason Code:

BEFORE

MASS
57
AREA
2669
HEIGHT
1069
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
2669
HEIGHT
1069
30-Mar-2023
12:41
linh
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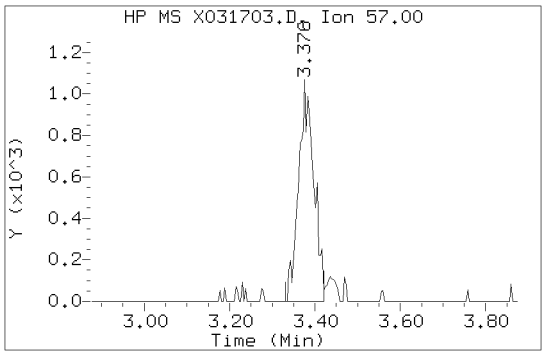
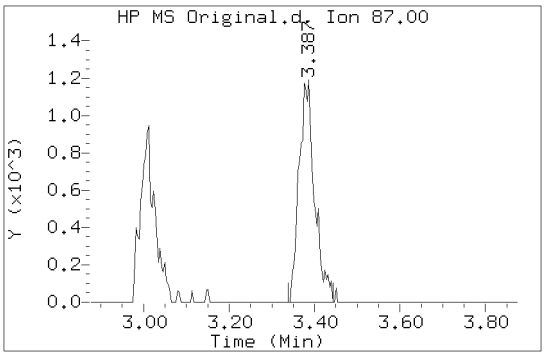


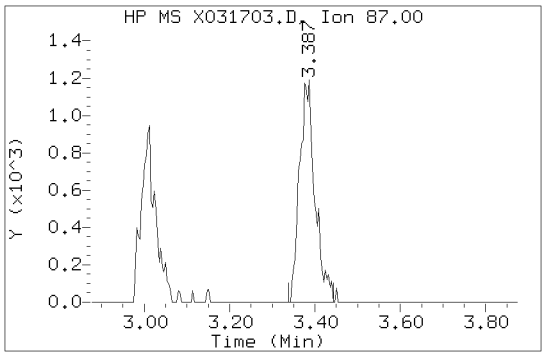
BEFORE

MASS
87
AREA
3036
HEIGHT
1191
30-Mar-2023
12:33
linh
pham



AFTER

MASS
87
AREA
3036
HEIGHT
1191
30-Mar-2023
12:41
linh
pham

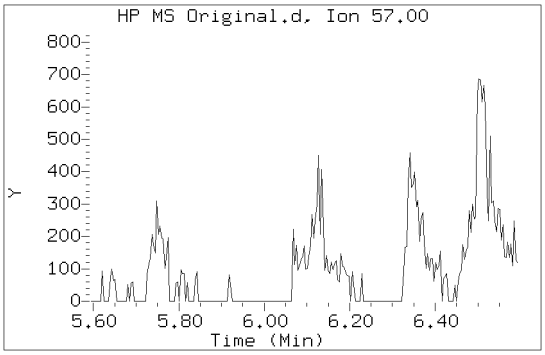


Epichlorohydrin (106-89-8)

Reason Code:

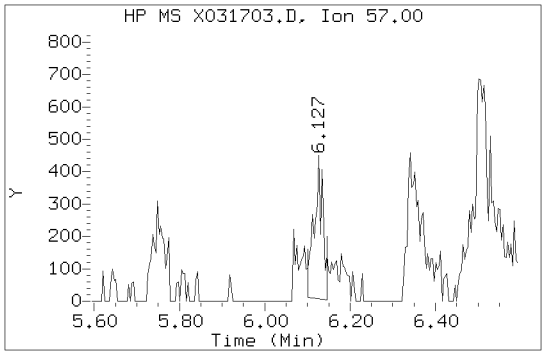
BEFORE

MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
57
AREA
641
HEIGHT
443
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
49
AREA
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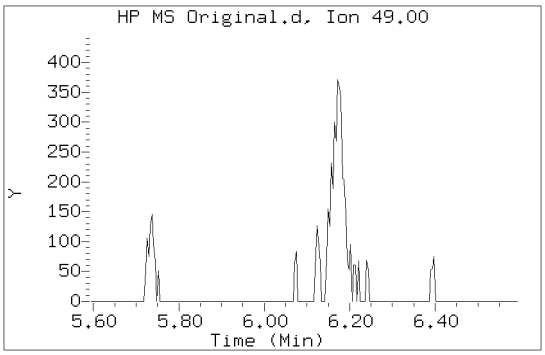
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
49
AREA
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HEIGHT
0
30-Mar-2023
12:41
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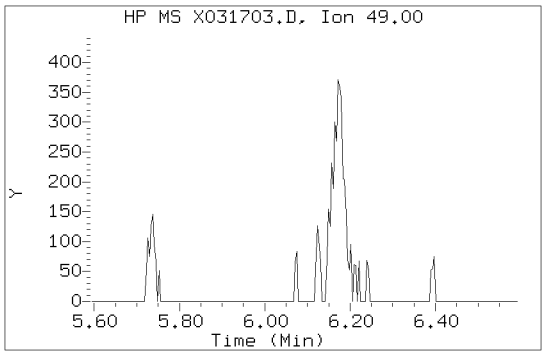
pham



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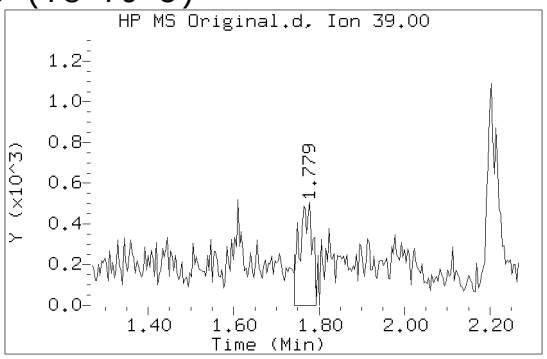
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Isoprene (78-79-5)

Reason Code:

BEFORE

MASS
39
AREA
1078
HEIGHT
508
30-Mar-2023
12:33
linh
pham



AFTER

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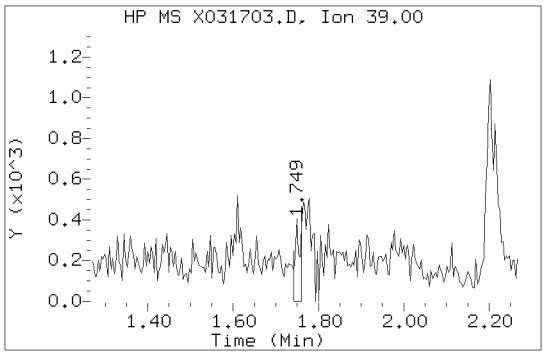
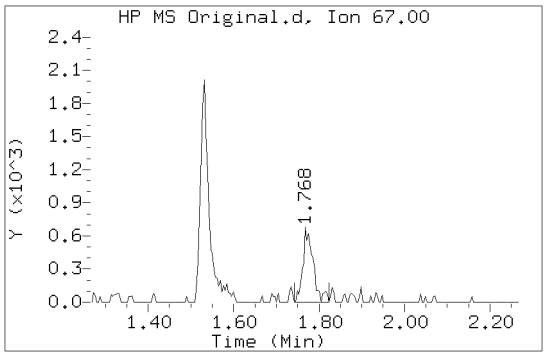
AREA
361
HEIGHT
407
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
67
AREA
1162
HEIGHT
679
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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12:41
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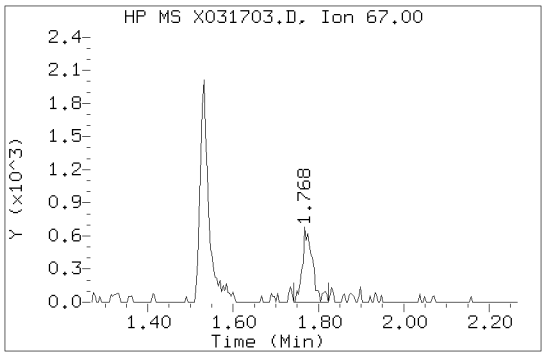

BEFORE

MASS
53
AREA
632
HEIGHT
377
30-Mar-2023
12:33
linh
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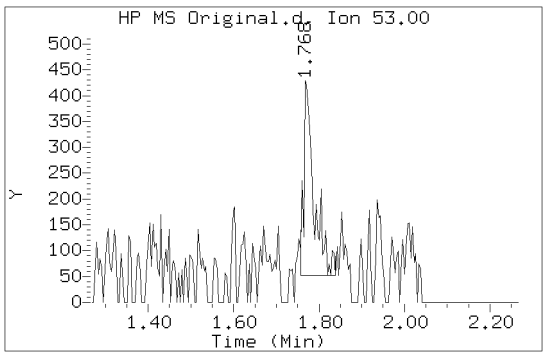

AFTER

MASS
53
AREA
632
HEIGHT
377
30-Mar-2023
12:41
linh
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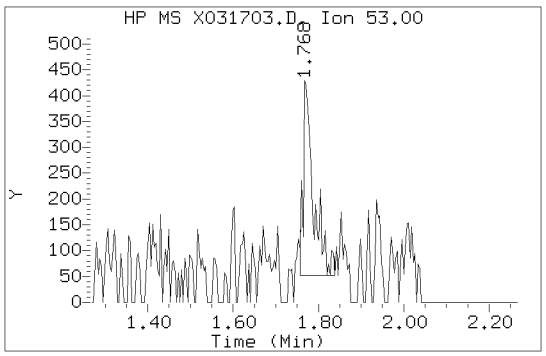
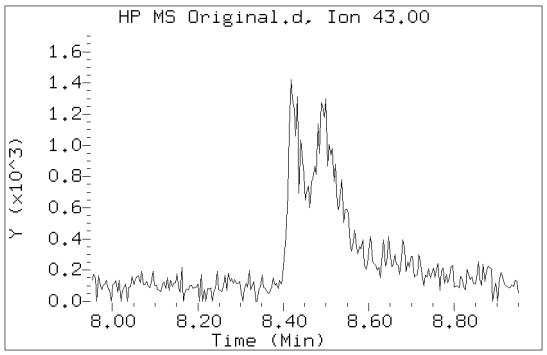


n-Amyl acetate (628-63-7)

Reason Code:

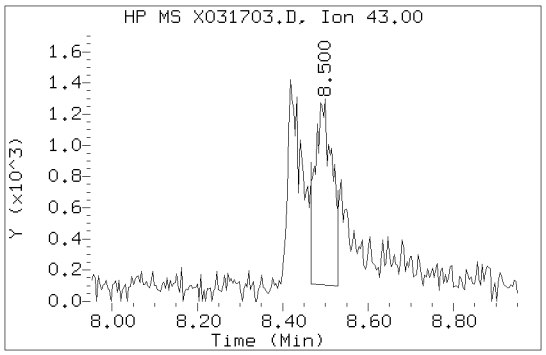
BEFORE

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
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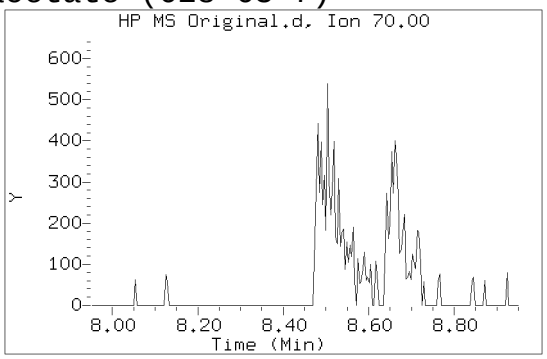
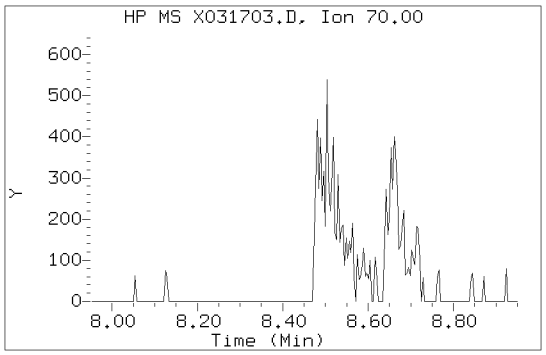
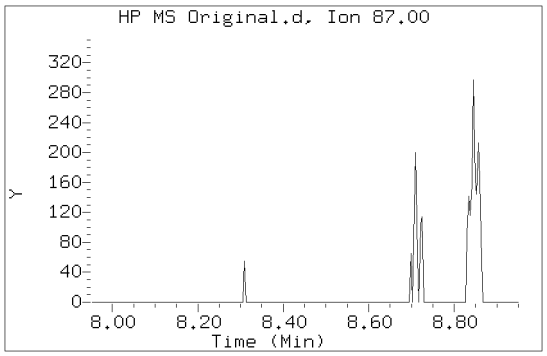
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



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
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HEIGHT
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30-Mar-2023
12:41
linh
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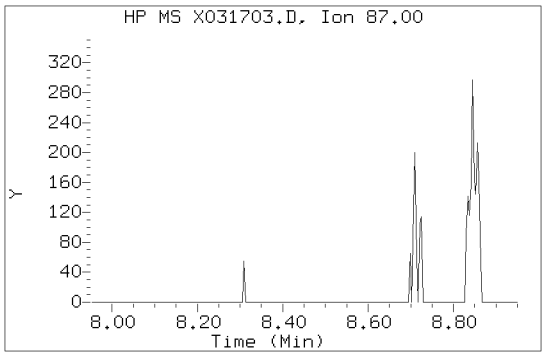
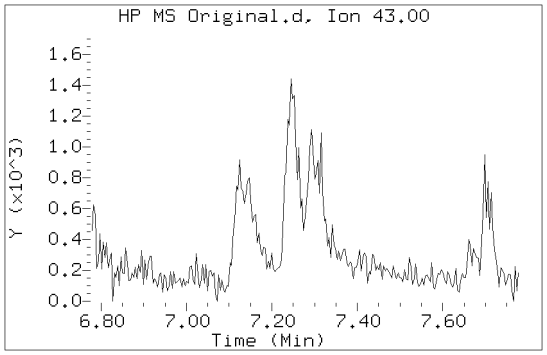


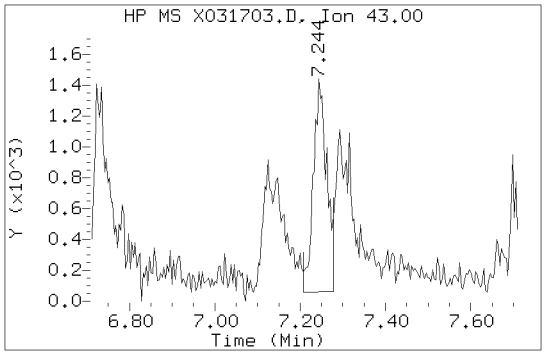
n-Butyl acetate (123-86-4)

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
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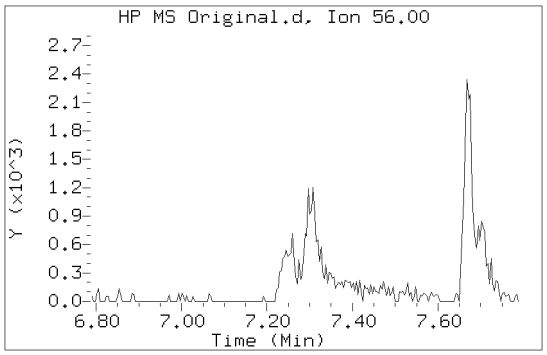
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
56
AREA
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HEIGHT
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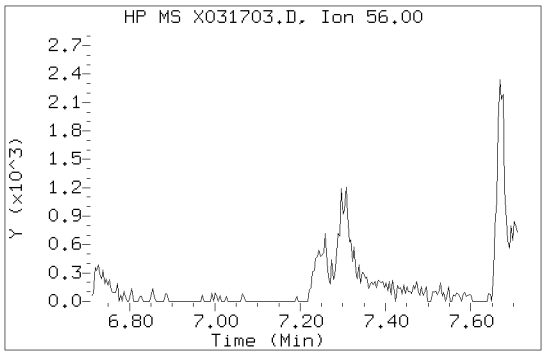
30-Mar-2023
12:41
linh
pham



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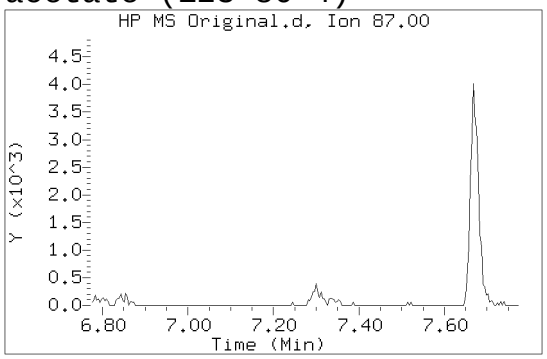
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

n-Butyl acetate (123-86-4)

Reason Code:

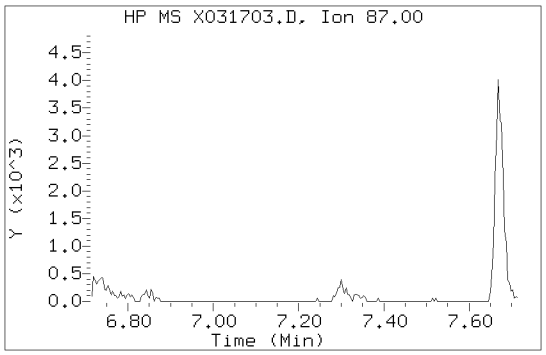
BEFORE

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

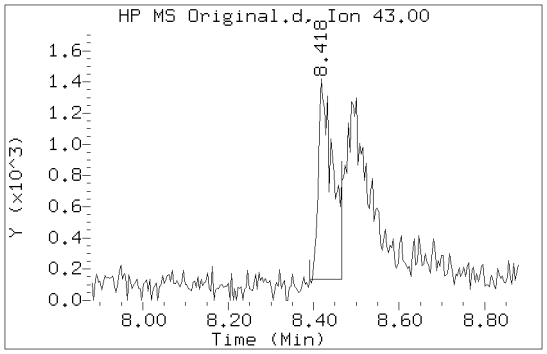


Methyl Amyl Ketone (110-43-0)

Reason Code:

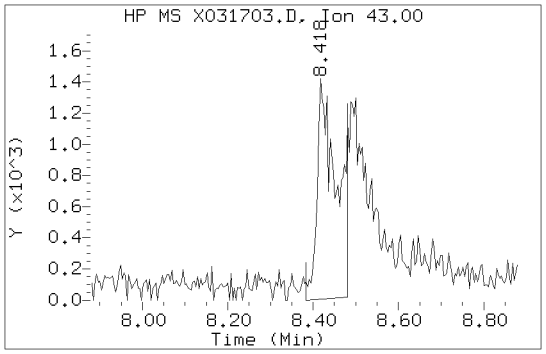
BEFORE

MASS
43
AREA
3008
HEIGHT
1286
30-Mar-2023
12:33
linh
pham



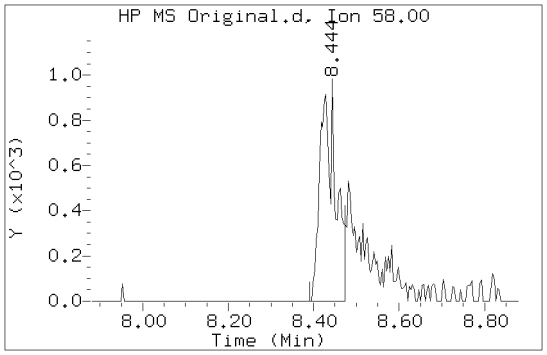
AFTER

MASS
43
AREA
4445
HEIGHT
1414
30-Mar-2023
12:41
linh
pham



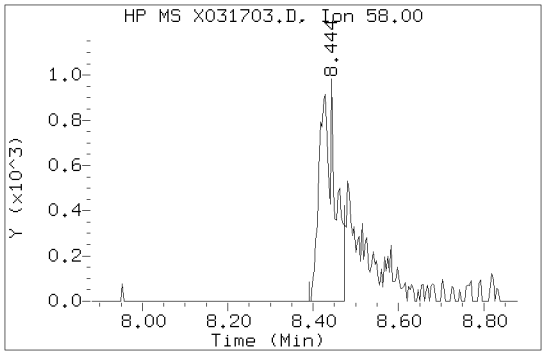
BEFORE

MASS
58
AREA
2410
HEIGHT
983
30-Mar-2023
12:33
linh
pham



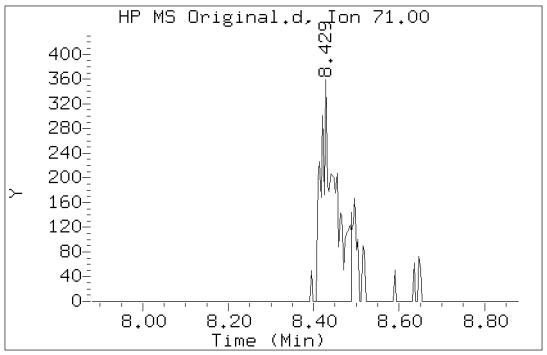
AFTER

MASS
58
AREA
2410
HEIGHT
983
30-Mar-2023
12:41
linh
pham



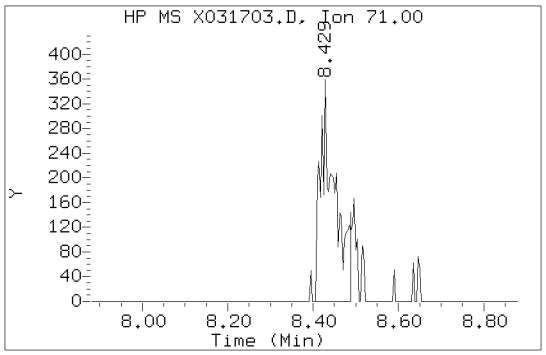
BEFORE

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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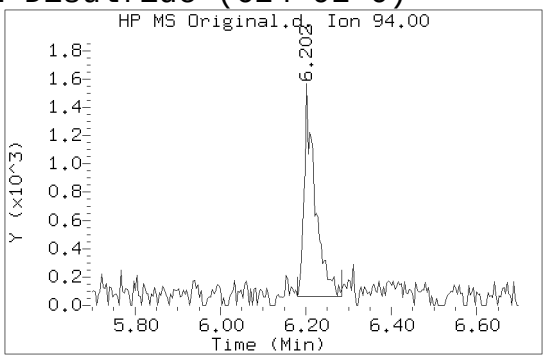
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Dimethyl Disulfide (624-92-0)

Reason Code:

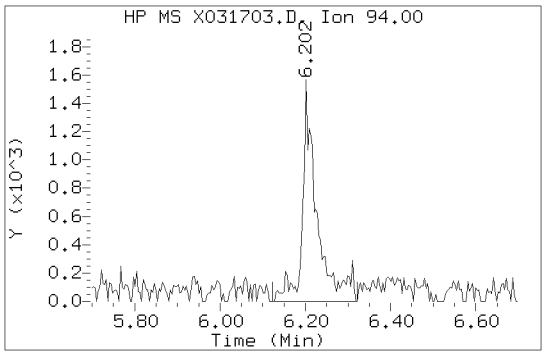
BEFORE

MASS
94
AREA
2708
HEIGHT
1503
30-Mar-2023
12:33
linh
pham



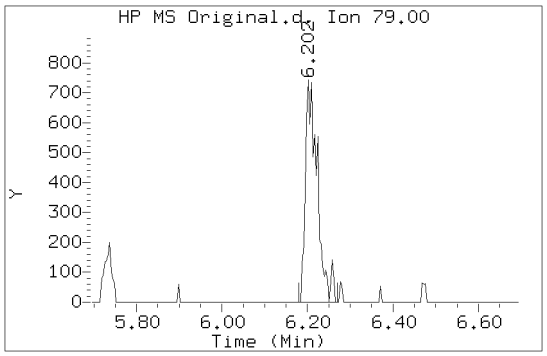
AFTER

MASS
94
AREA
3700
HEIGHT
1567
30-Mar-2023
12:41
linh
pham



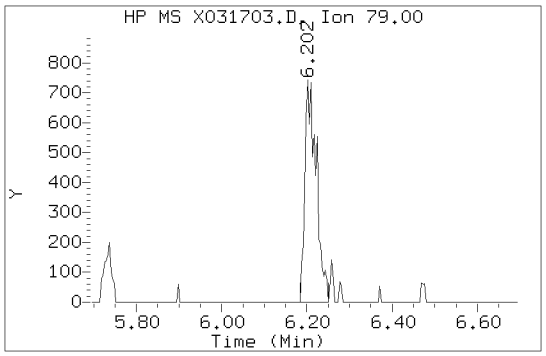
BEFORE

MASS
79
AREA
1457
HEIGHT
743
30-Mar-2023
12:33
linh
pham



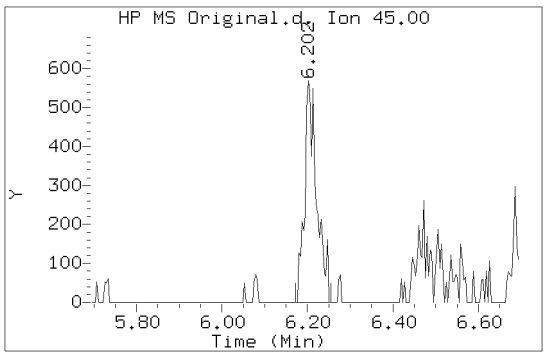
AFTER

MASS
79
AREA
1393
HEIGHT
743
30-Mar-2023
12:41
linh
pham



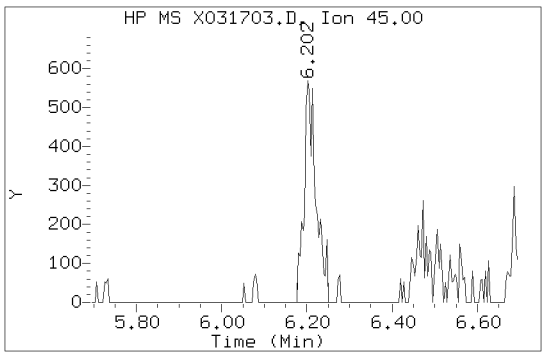
BEFORE

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

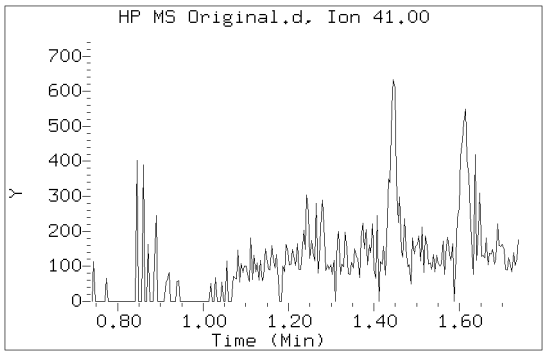


Isobutylene (115-11-7)

Reason Code:

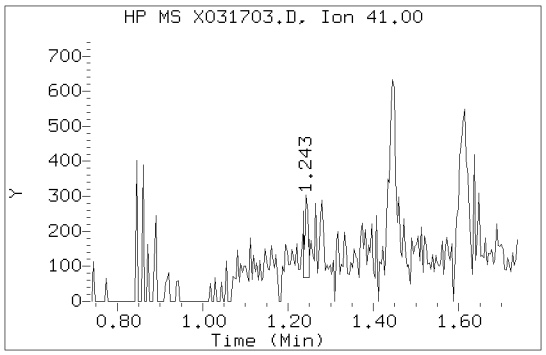
BEFORE

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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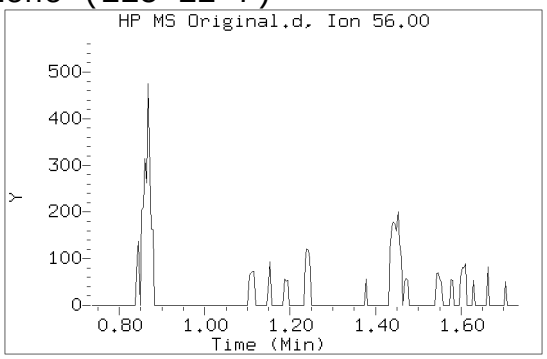
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

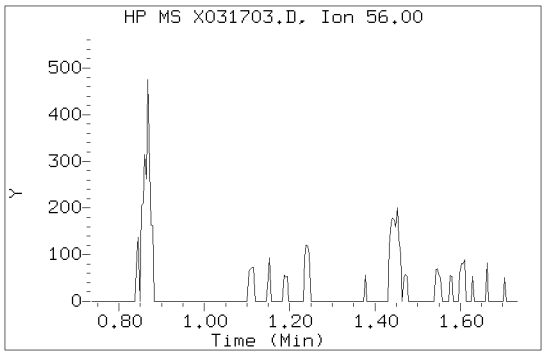
Isobutylene (115-11-7)

Reason Code:

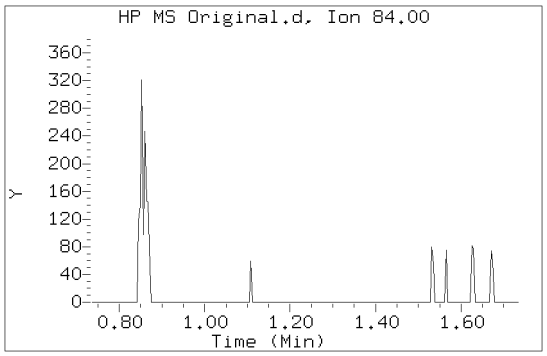
BEFORE
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



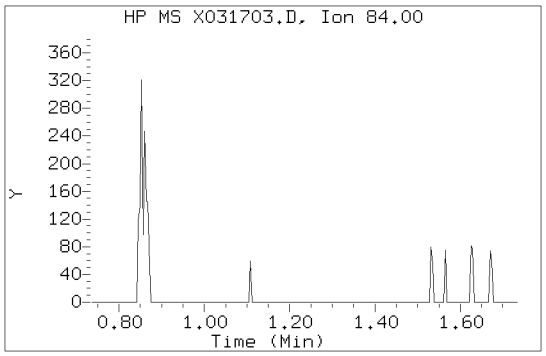
AFTER
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



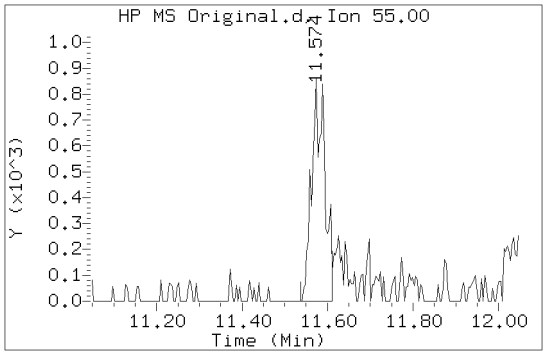
AFTER
MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



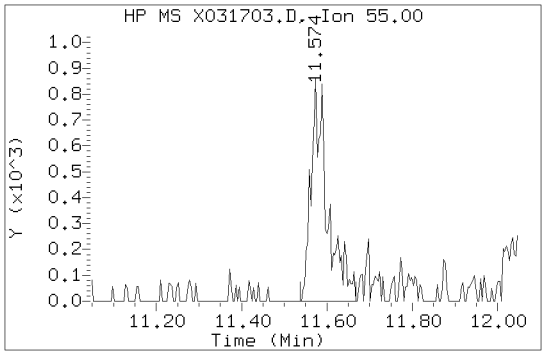
2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

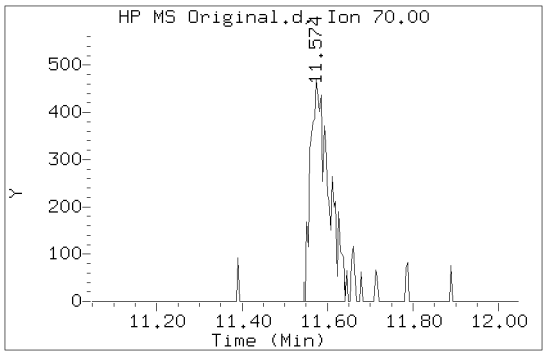
BEFORE
MASS
55
AREA
1818
HEIGHT
859
30-Mar-2023
12:33
linh
pham



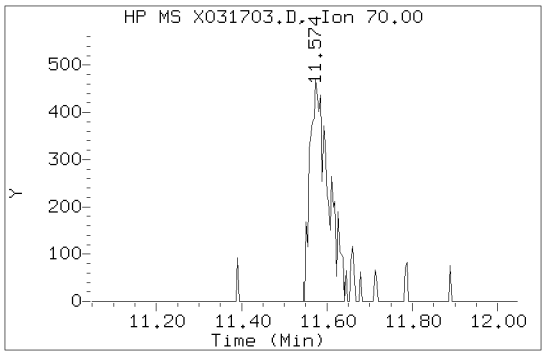
AFTER
MASS
55
AREA
2268
HEIGHT
859
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
70
AREA
1400
HEIGHT
469
30-Mar-2023
12:33
linh
pham



AFTER
MASS
70
AREA
1400
HEIGHT
469
30-Mar-2023
12:41
linh
pham



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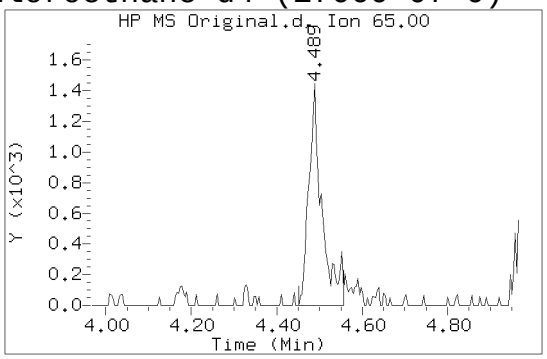
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

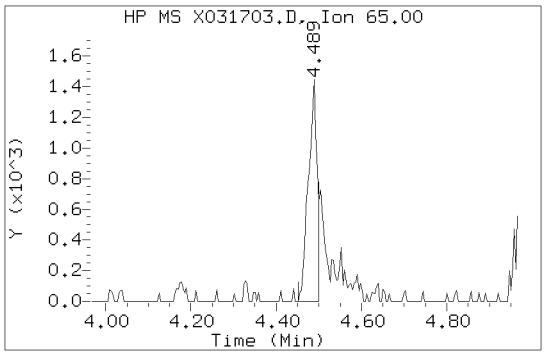
BEFORE

MASS
65
AREA
3081
HEIGHT
1446
30-Mar-2023
12:33
linh
pham



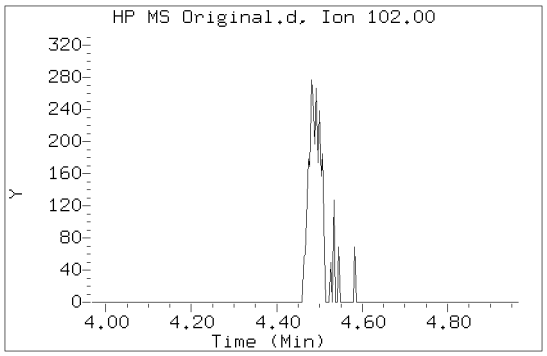
AFTER

MASS
65
AREA
2080
HEIGHT
1446
30-Mar-2023
12:41
linh
pham



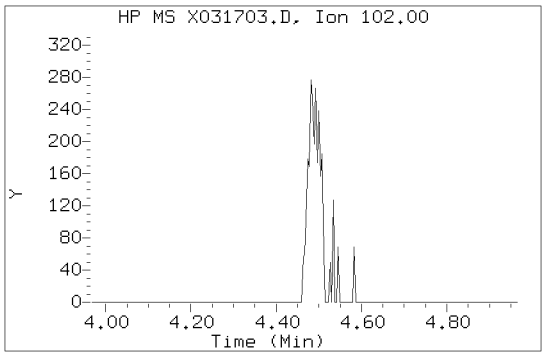
BEFORE

MASS
102
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
102
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

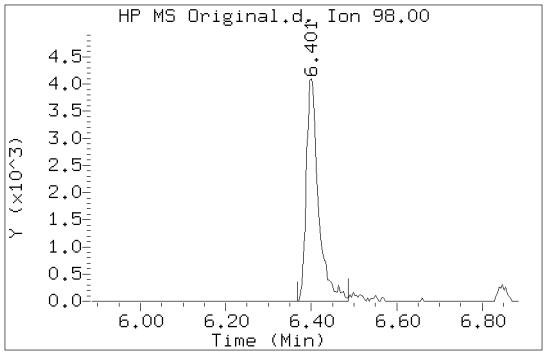


Toluene-d8 (2037-26-5)

Reason Code:

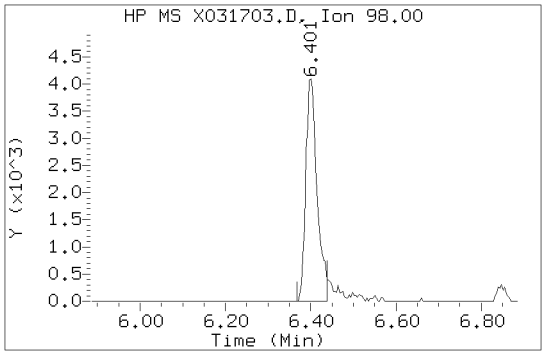
BEFORE

MASS
98
AREA
8177
HEIGHT
4094
30-Mar-2023
12:33
linh
pham



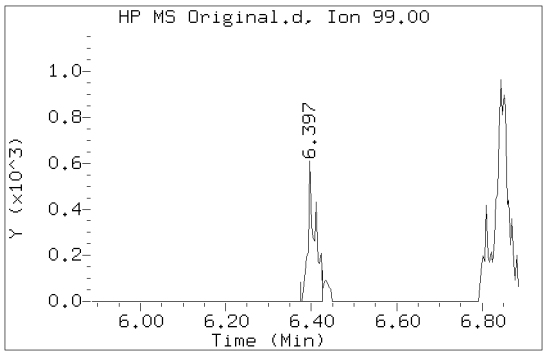
AFTER

MASS
98
AREA
7591
HEIGHT
4094
30-Mar-2023
12:41
linh
pham



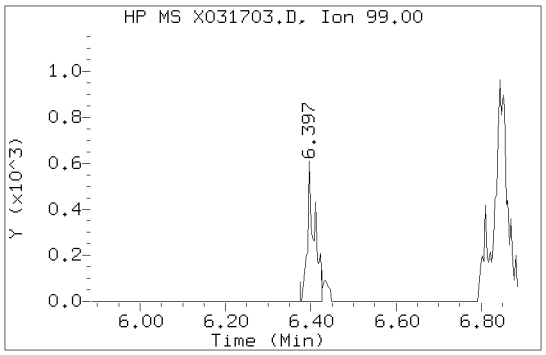
BEFORE

MASS
99
AREA
702
HEIGHT
610
30-Mar-2023
12:33
linh
pham



AFTER

MASS
99
AREA
702
HEIGHT
610
30-Mar-2023
12:41
linh
pham



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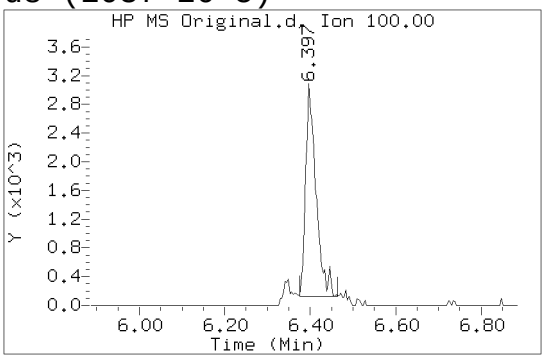
Inj Date : 17-MAR-2023 12:11
InstruID : voa6.i
LabSampID : VSTD000.5

Toluene-d8 (2037-26-5)

Reason Code:

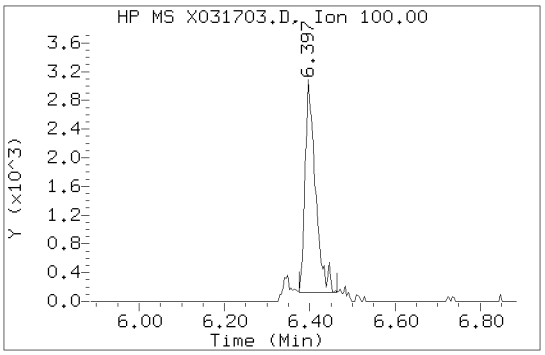
BEFORE

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

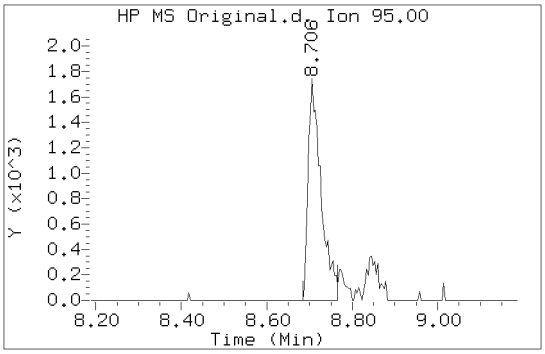


4-Bromofluorobenzene (460-00-4)

Reason Code:

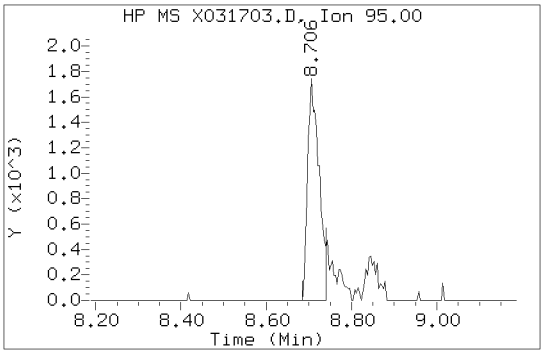
BEFORE

MASS
95
AREA
3649
HEIGHT
1743
30-Mar-2023
12:33
linh
pham



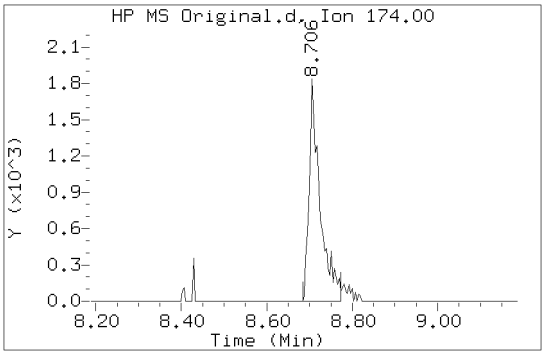
AFTER

MASS
95
AREA
3243
HEIGHT
1743
30-Mar-2023
12:41
linh
pham



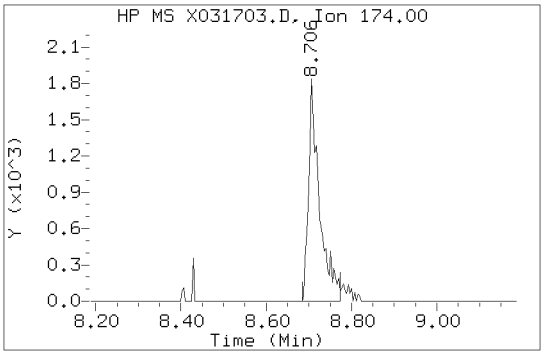
BEFORE

MASS
174
AREA
3271
HEIGHT
1837
30-Mar-2023
12:33
linh
pham



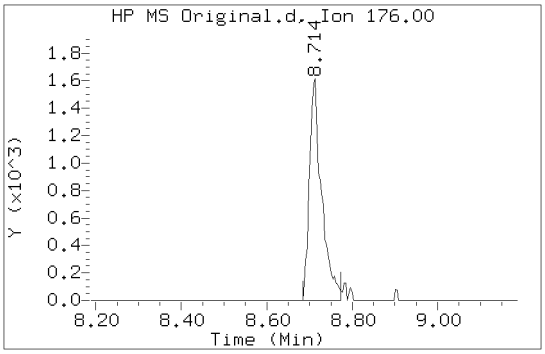
AFTER

MASS
174
AREA
3271
HEIGHT
1837
30-Mar-2023
12:41
linh
pham



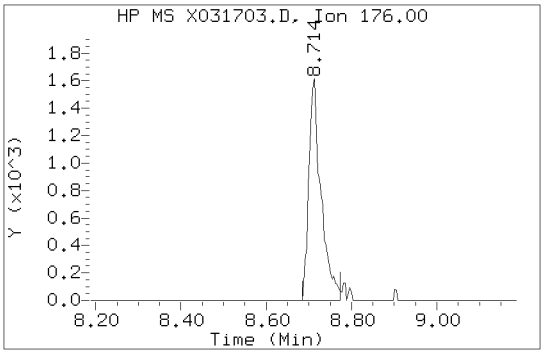
BEFORE

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
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
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)

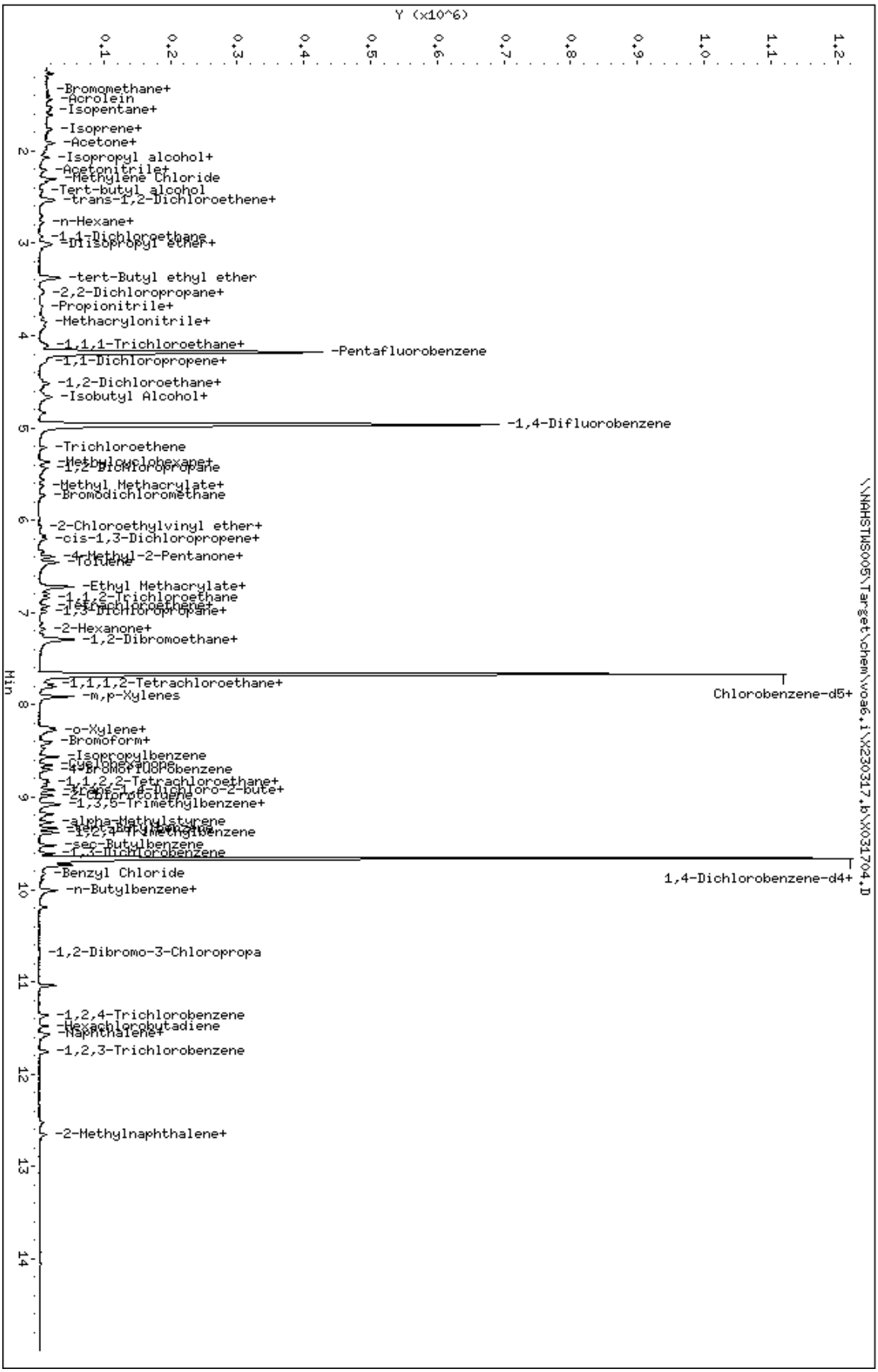
79 1,2,4-Trimethylbenzene	105	9.384	9.384 (0.971)	13929	1.00000	1.00(a)
81 sec-Butylbenzene	105	9.523	9.523 (0.986)	15472	1.00000	1.06(a)

	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

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

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30-Mar-2023
12:33
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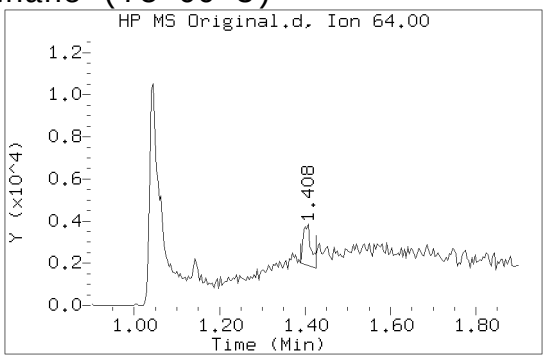

AFTER

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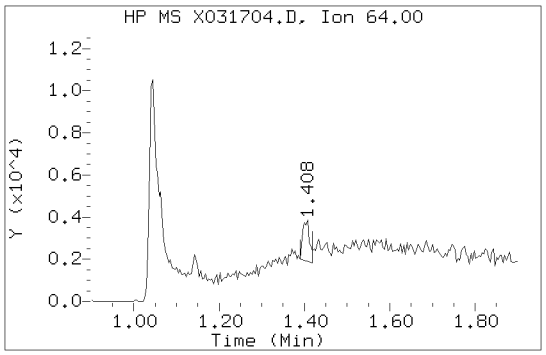

BEFORE

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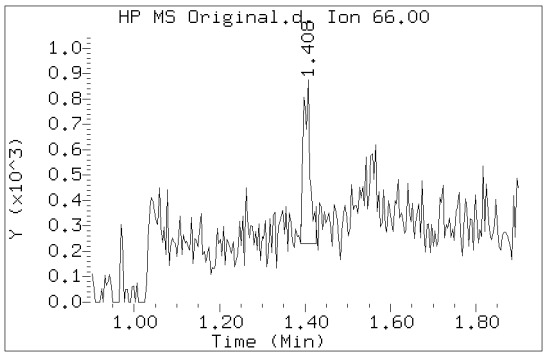

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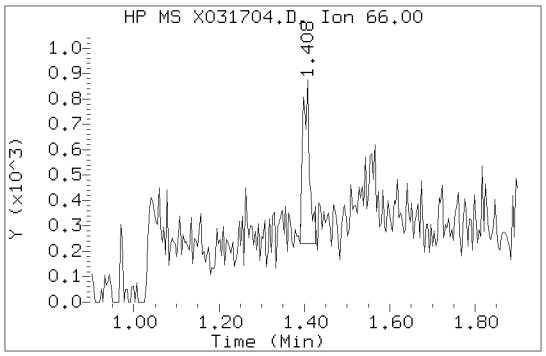

Trichlorofluoromethane (75-69-4)

Reason Code:

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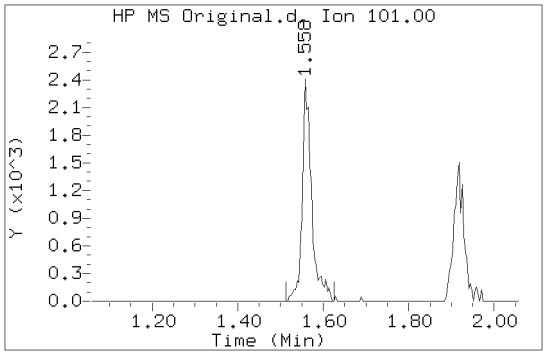

AFTER

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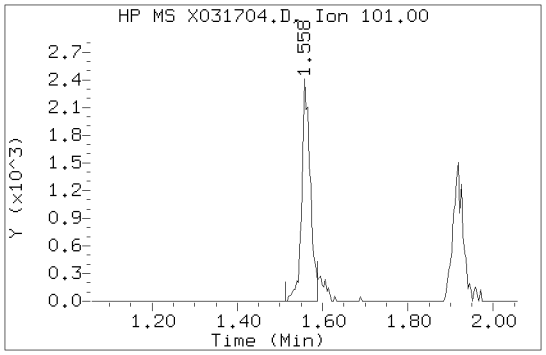

BEFORE

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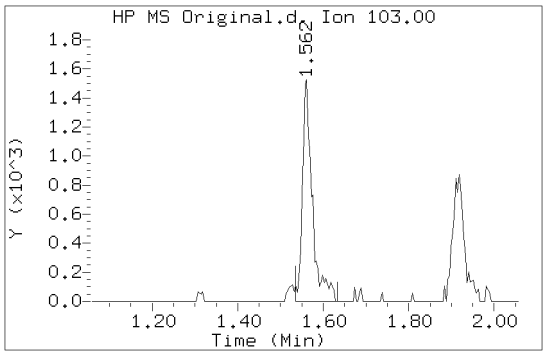

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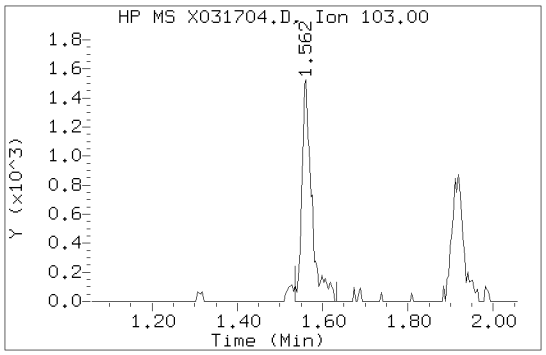

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LabSampID : VSTD001

Acetone (67-64-1)

Reason Code:

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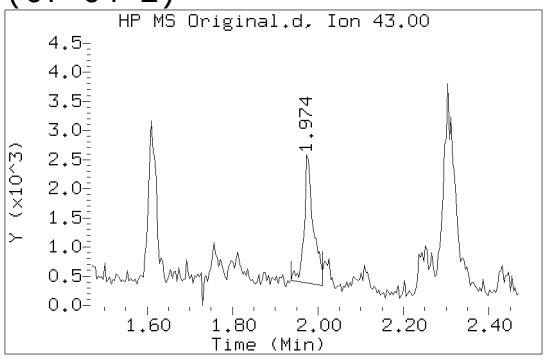

AFTER

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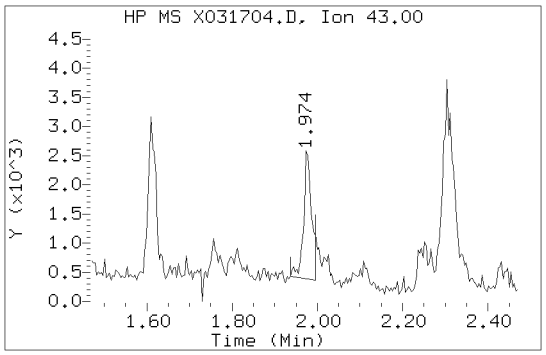

BEFORE

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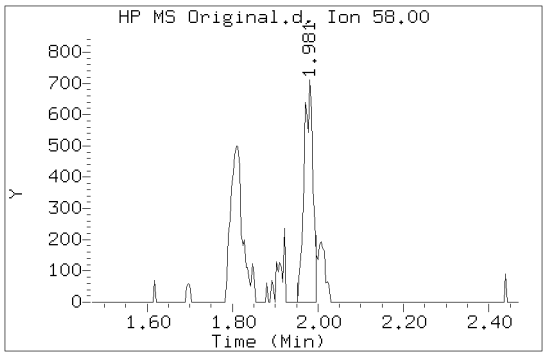

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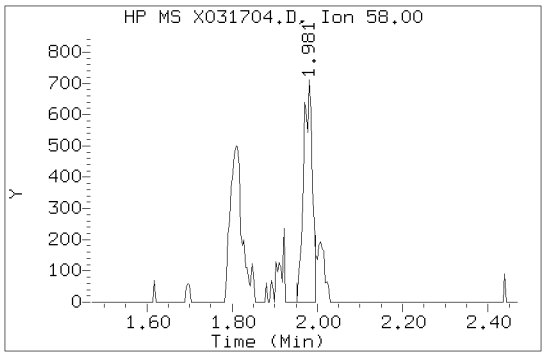

1,1-Dichloroethene (75-35-4)

Reason Code:

BEFORE

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30-Mar-2023
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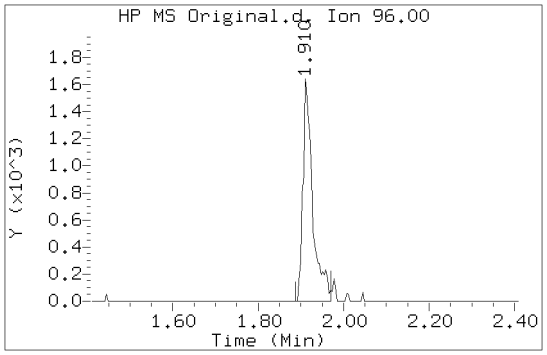
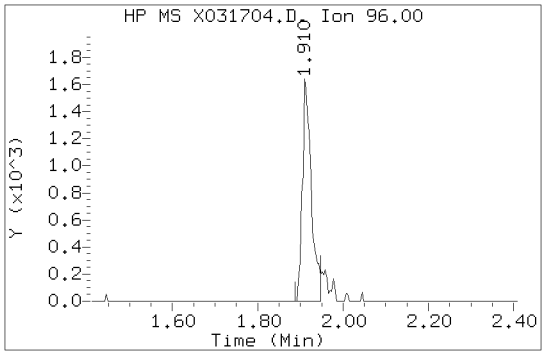
linh
pham



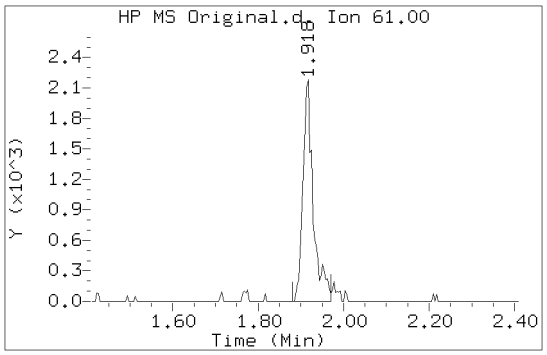
AFTER

MASS
96
AREA
2453
HEIGHT
1642
30-Mar-2023
12:41
linh
pham



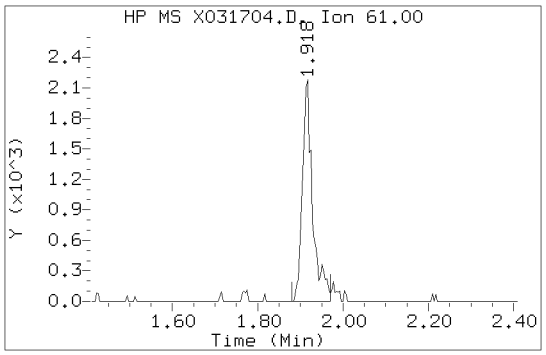
BEFORE

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



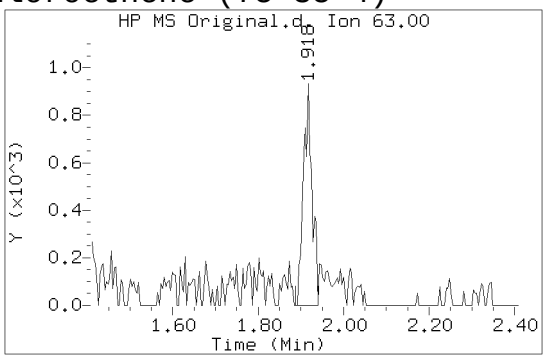
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,1-Dichloroethene (75-35-4)

Reason Code:

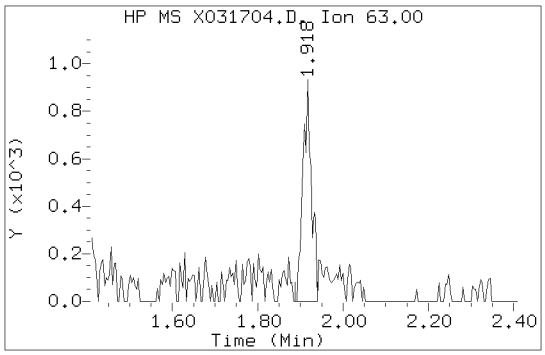
BEFORE

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

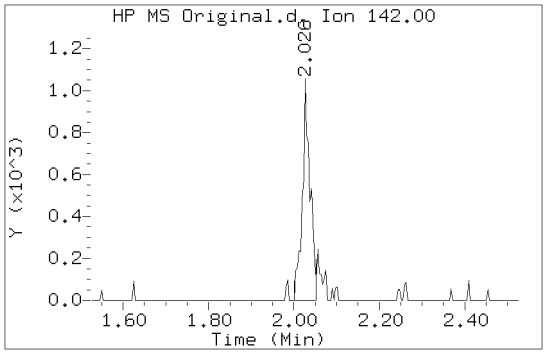


Iodomethane (74-88-4)

Reason Code:

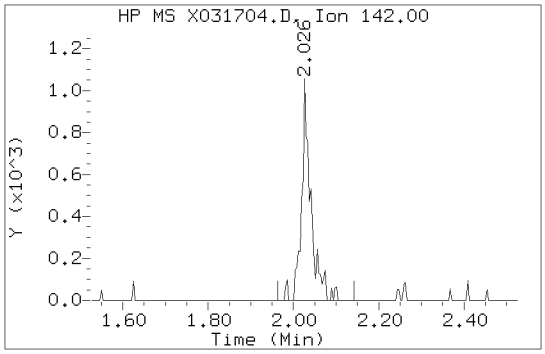
BEFORE

MASS
142
AREA
1366
HEIGHT
1057
30-Mar-2023
12:33
linh
pham



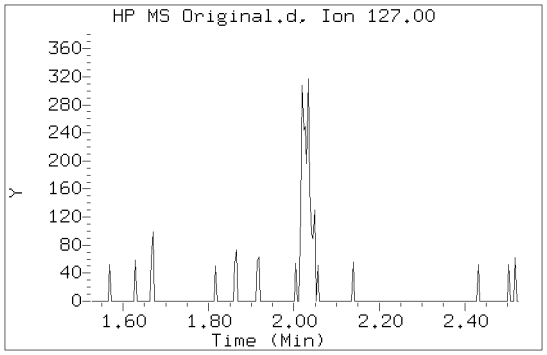
AFTER

MASS
142
AREA
1627
HEIGHT
1057
30-Mar-2023
12:41
linh
pham



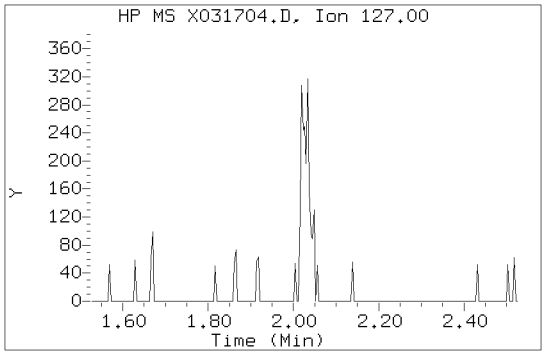
BEFORE

MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



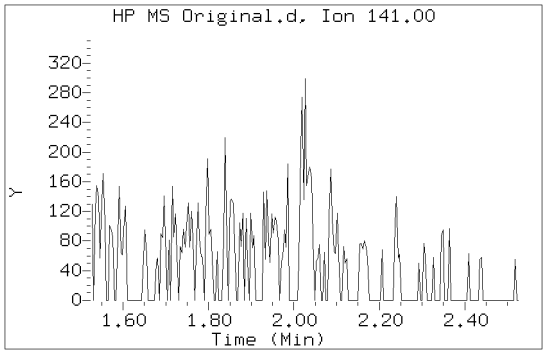
AFTER

MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



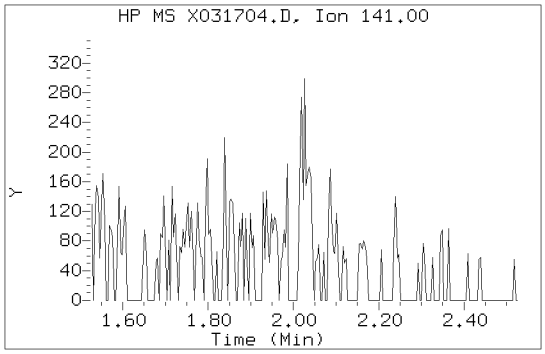
BEFORE

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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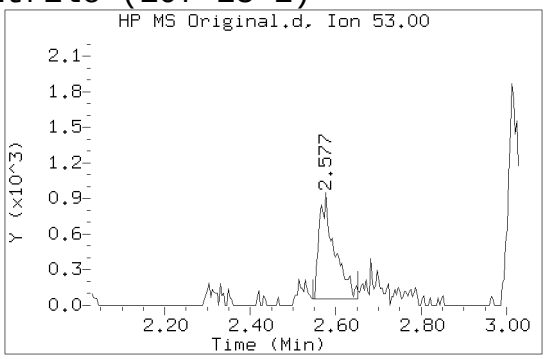
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Acrylonitrile (107-13-1)

Reason Code:

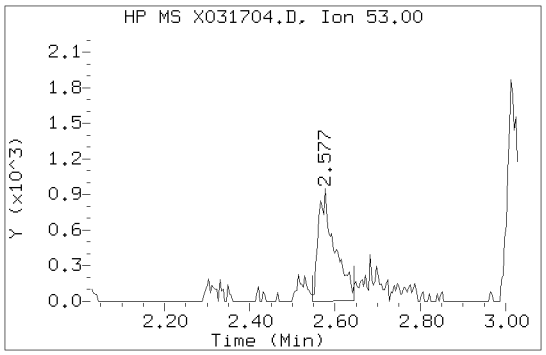
BEFORE

MASS
53
AREA
2233
HEIGHT
896
30-Mar-2023
12:33
linh
pham



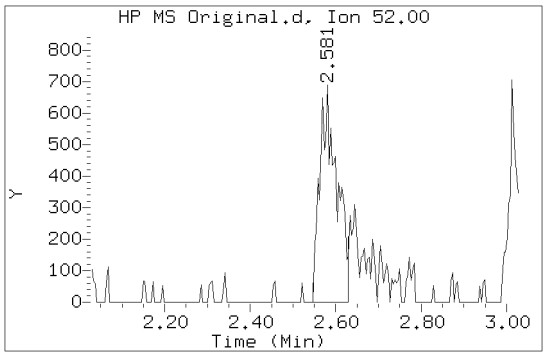
AFTER

MASS
53
AREA
2507
HEIGHT
949
30-Mar-2023
12:41
linh
pham



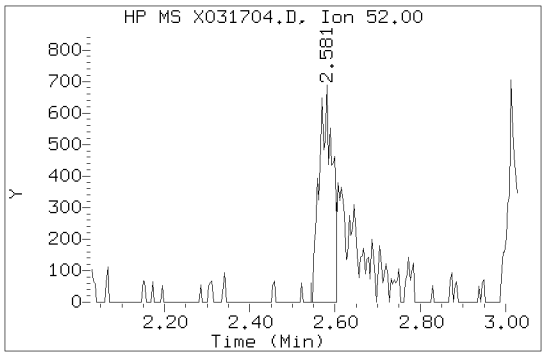
BEFORE

MASS
52
AREA
1908
HEIGHT
690
30-Mar-2023
12:33
linh
pham



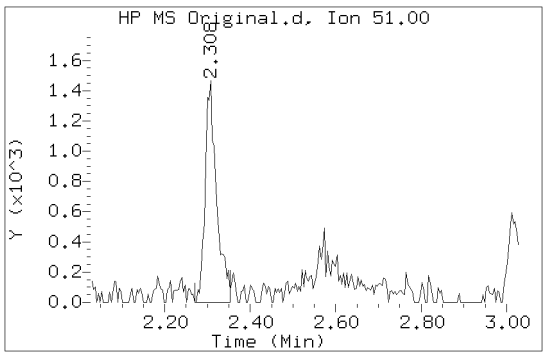
AFTER

MASS
52
AREA
1471
HEIGHT
690
30-Mar-2023
12:41
linh
pham



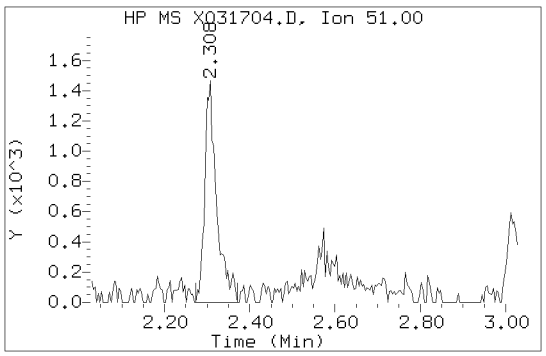
BEFORE

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

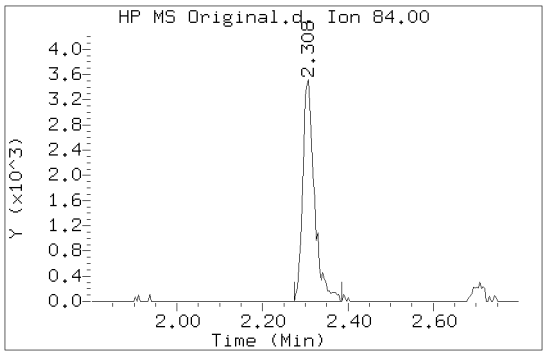


Methylene Chloride (75-09-2)

Reason Code:

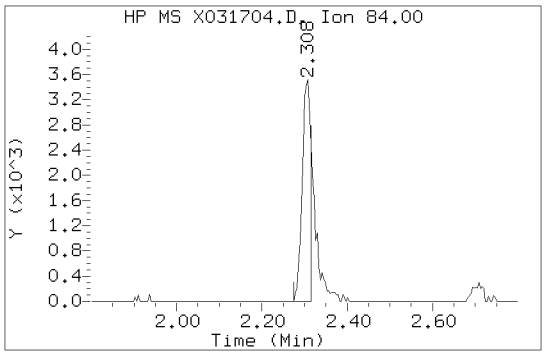
BEFORE

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



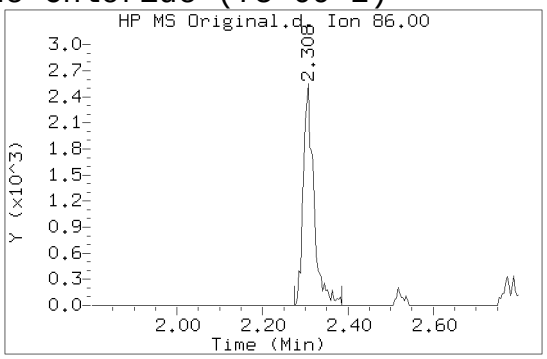
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Methylene Chloride (75-09-2)

Reason Code:

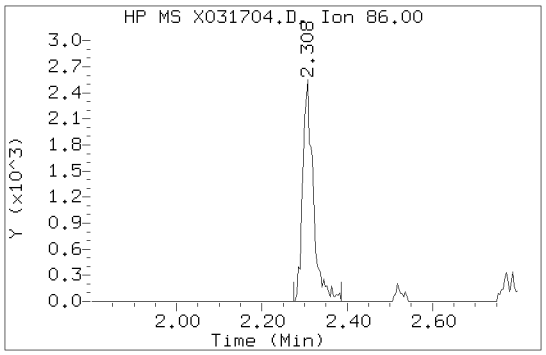
BEFORE

MASS
86
AREA
4483
HEIGHT
2551
30-Mar-2023
12:33
linh
pham



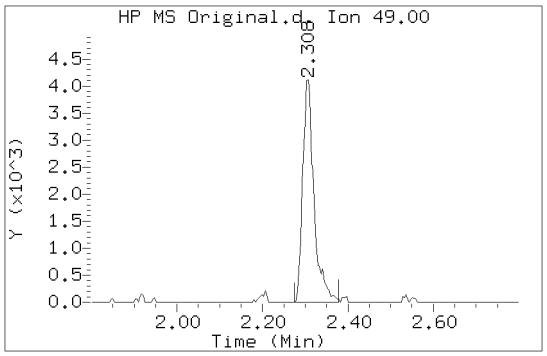
AFTER

MASS
86
AREA
4483
HEIGHT
2551
30-Mar-2023
12:41
linh
pham



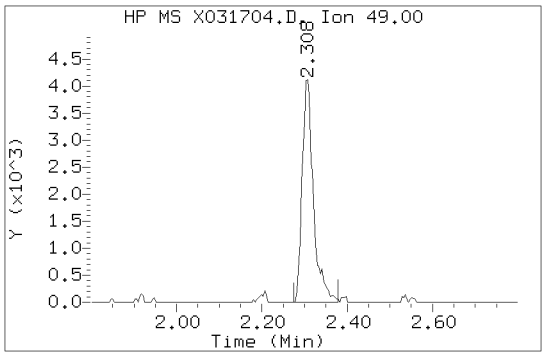
BEFORE

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

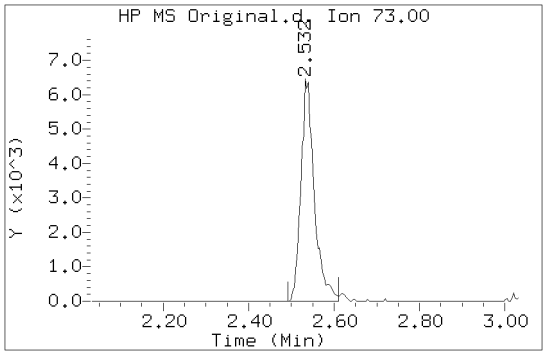


Methyl tert-butyl ether (1634-04-4)

Reason Code:

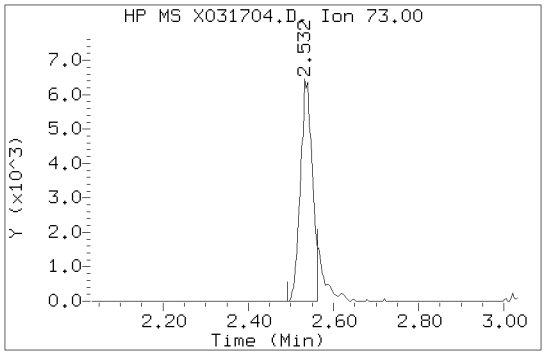
BEFORE

MASS
73
AREA
14389
HEIGHT
6459
30-Mar-2023
12:33
linh
pham



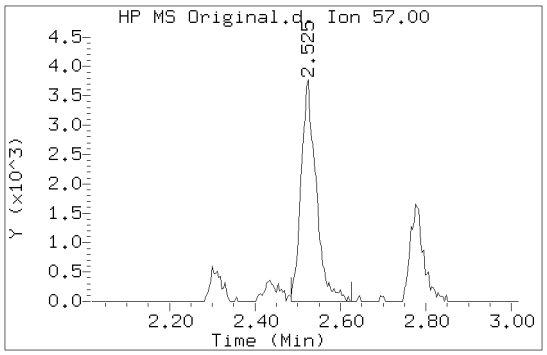
AFTER

MASS
73
AREA
12777
HEIGHT
6459
30-Mar-2023
12:41
linh
pham



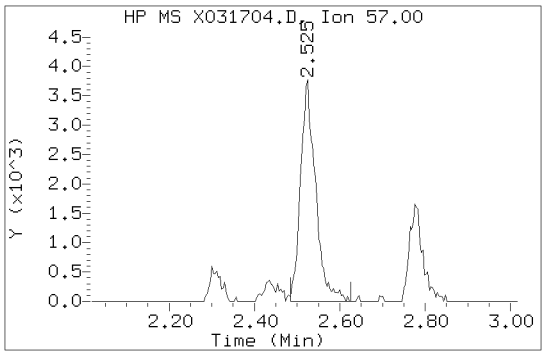
BEFORE

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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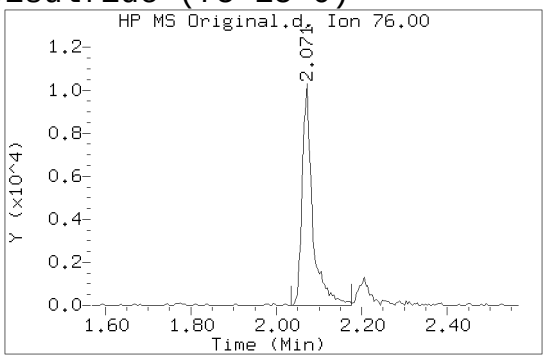
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

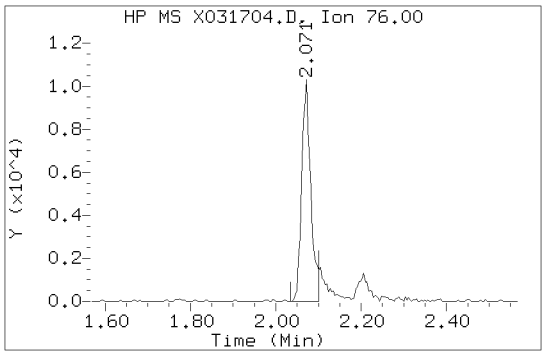
Carbon Disulfide (75-15-0)

BEFORE
MASS
76
AREA
17735
HEIGHT
10310
30-Mar-2023
12:33
linh
pham

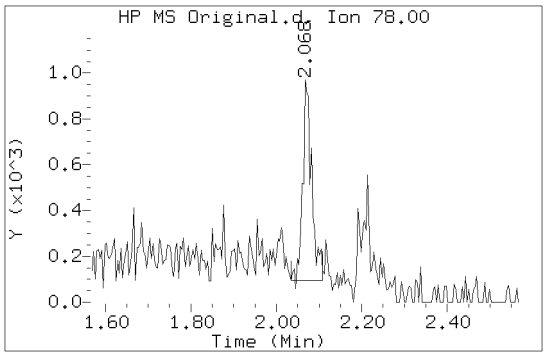


Reason Code:

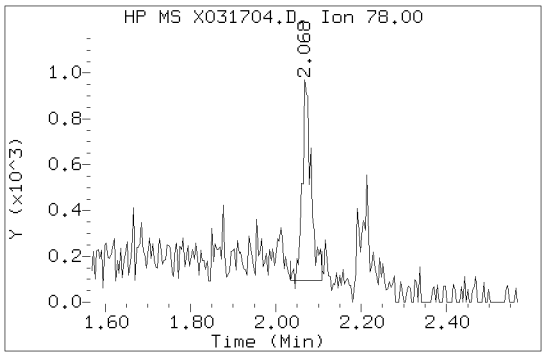
AFTER
MASS
76
AREA
15617
HEIGHT
10310
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
78
AREA
1293
HEIGHT
874
30-Mar-2023
12:33
linh
pham

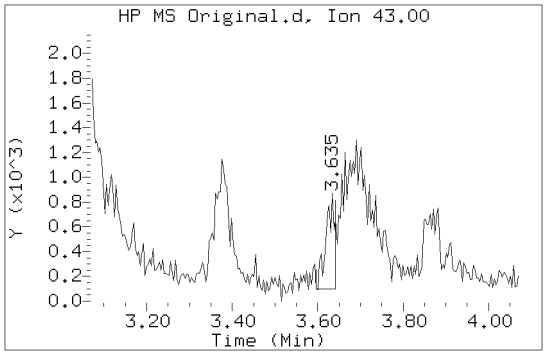


AFTER
MASS
78
AREA
1293
HEIGHT
874
30-Mar-2023
12:41
linh
pham



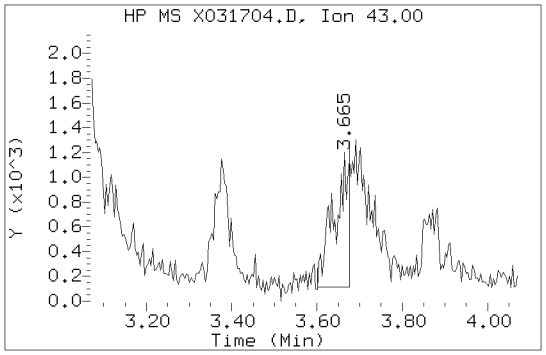
2-Butanone (78-93-3)

BEFORE
MASS
43
AREA
1071
HEIGHT
774
30-Mar-2023
12:33
linh
pham

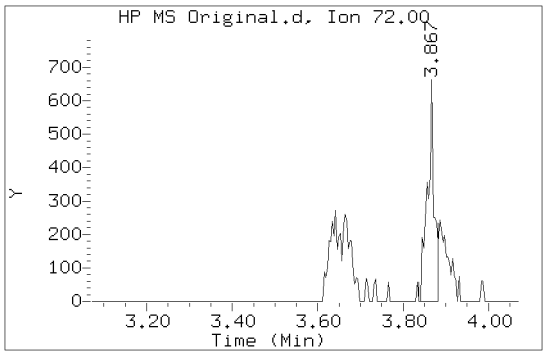


Reason Code:

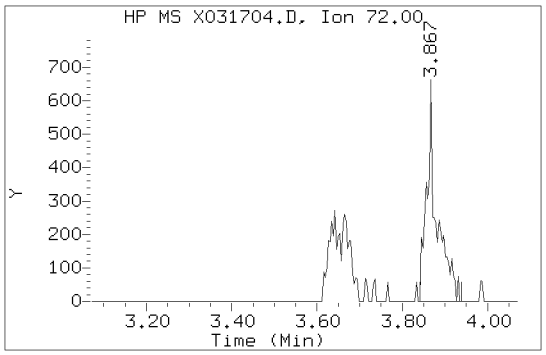
AFTER
MASS
43
AREA
2545
HEIGHT
1088
30-Mar-2023
12:41
linh
pham



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

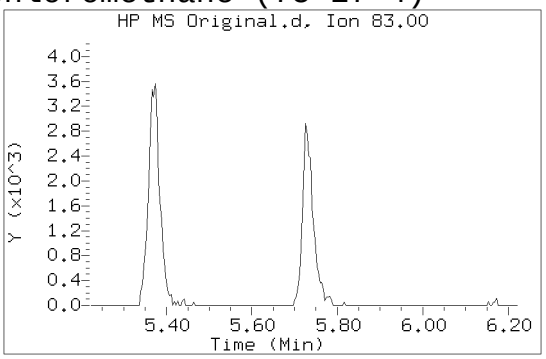


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

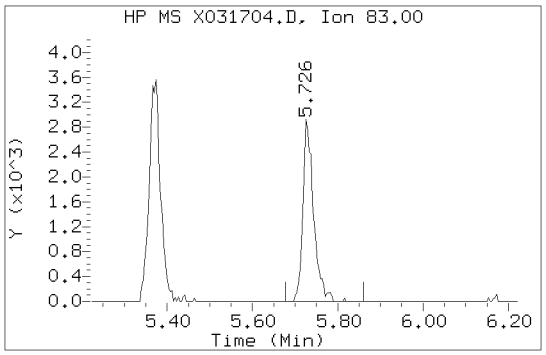
Bromodichloromethane (75-27-4)

Reason Code:

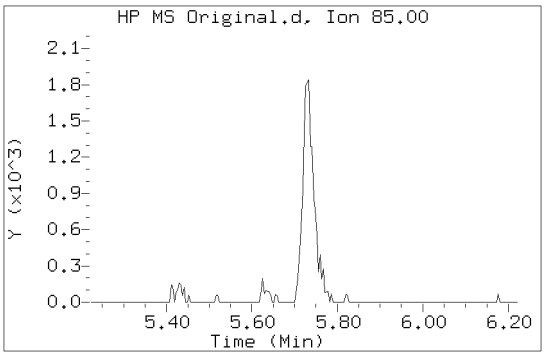
BEFORE
MASS
83
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



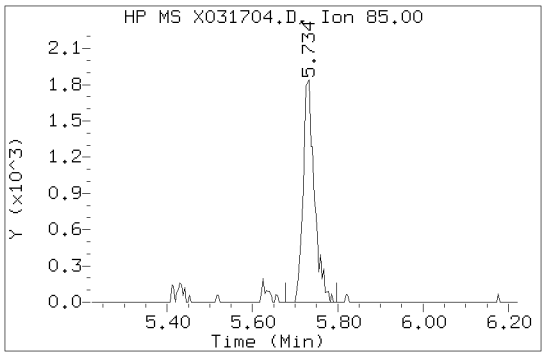
AFTER
MASS
83
AREA
5190
HEIGHT
2922
30-Mar-2023
12:41
linh
pham



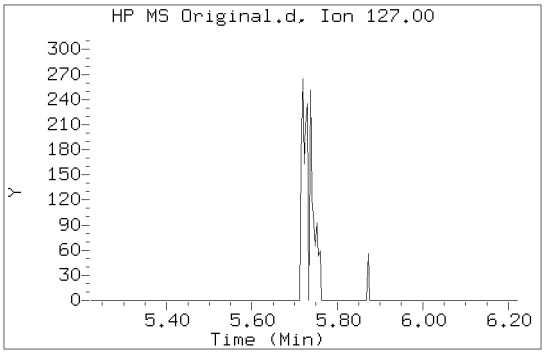
BEFORE
MASS
85
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



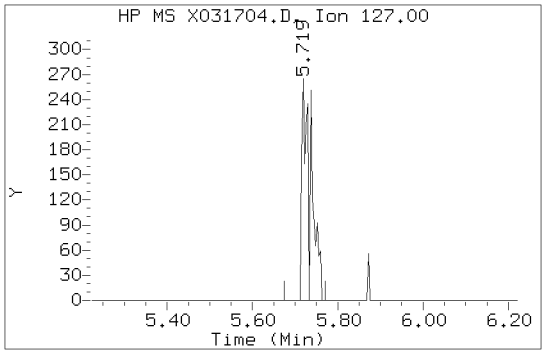
AFTER
MASS
85
AREA
3444
HEIGHT
1839
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
127
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



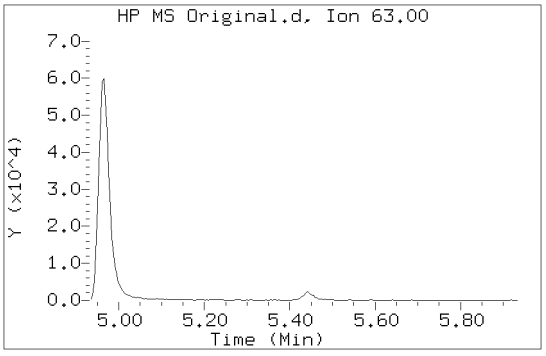
AFTER
MASS
127
AREA
399
HEIGHT
265
30-Mar-2023
12:41
linh
pham



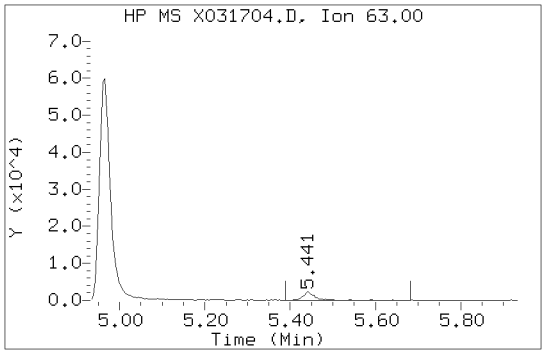
1,2-Dichloropropane (78-87-5)

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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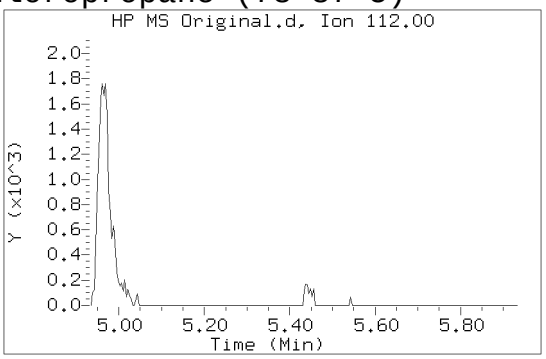
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dichloropropane (78-87-5)

Reason Code:

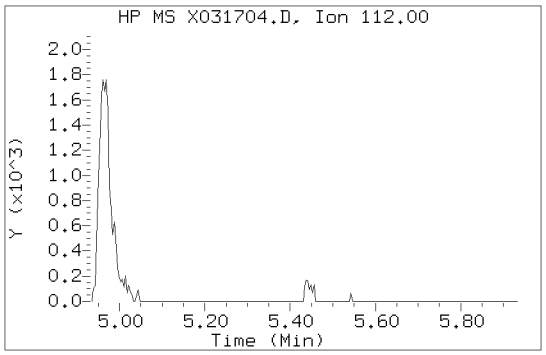
BEFORE

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

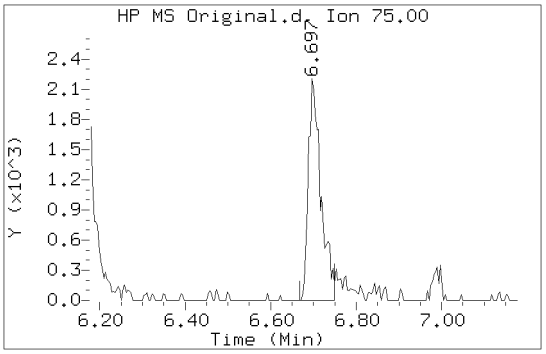


trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

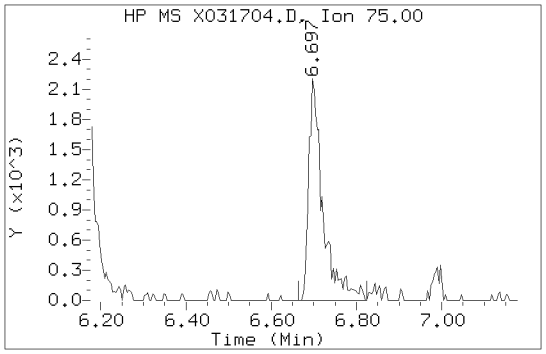
BEFORE

MASS
75
AREA
4512
HEIGHT
2206
30-Mar-2023
12:33
linh
pham



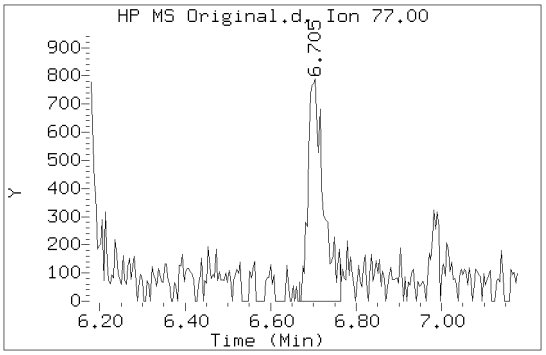
AFTER

MASS
75
AREA
5091
HEIGHT
2206
30-Mar-2023
12:41
linh
pham



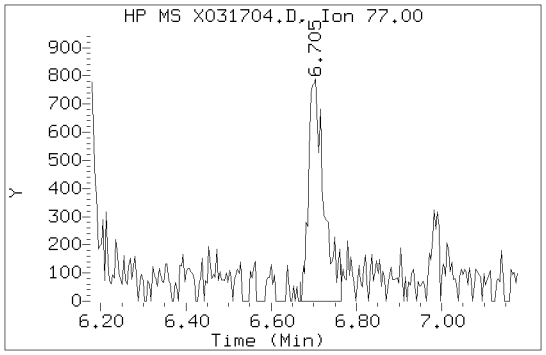
BEFORE

MASS
77
AREA
1993
HEIGHT
789
30-Mar-2023
12:33
linh
pham



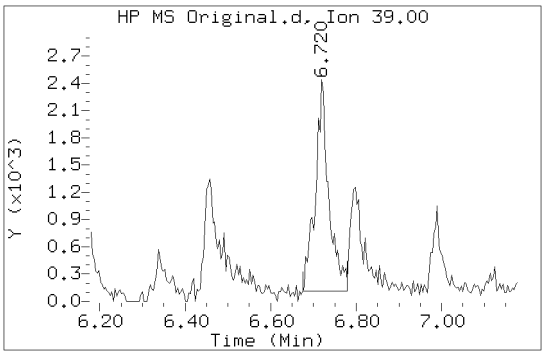
AFTER

MASS
77
AREA
1993
HEIGHT
789
30-Mar-2023
12:41
linh
pham



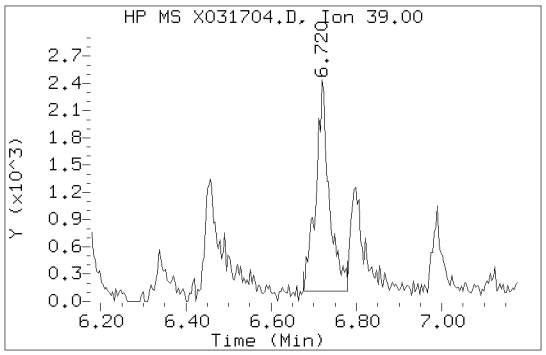
BEFORE

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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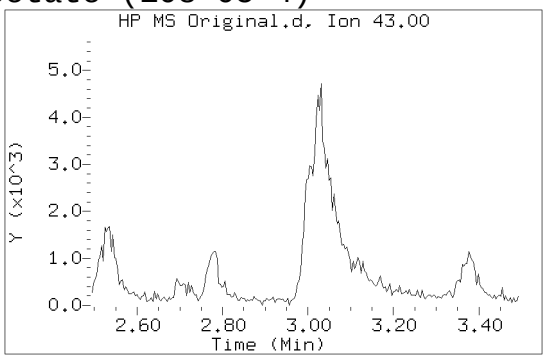
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Vinyl Acetate (108-05-4)

Reason Code:

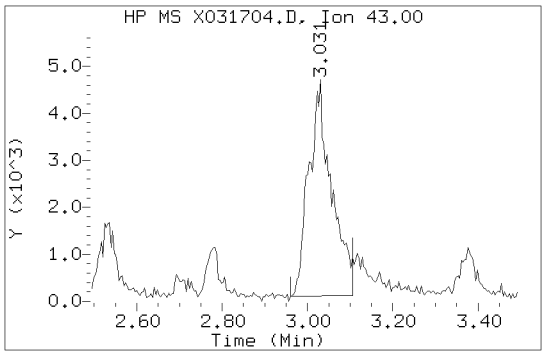
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



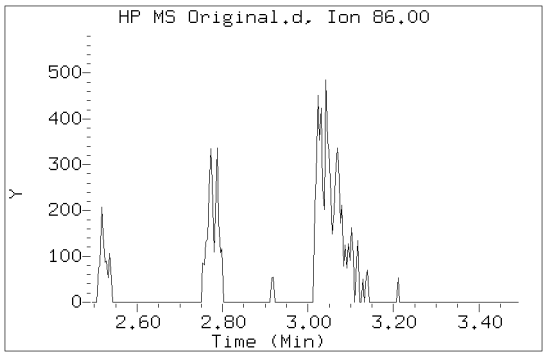
AFTER

MASS
43
AREA
17097
HEIGHT
4603
30-Mar-2023
12:41
linh
pham



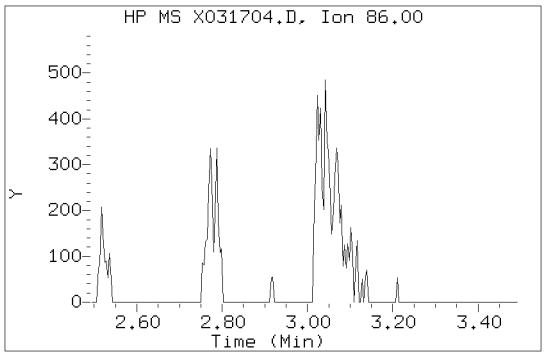
BEFORE

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

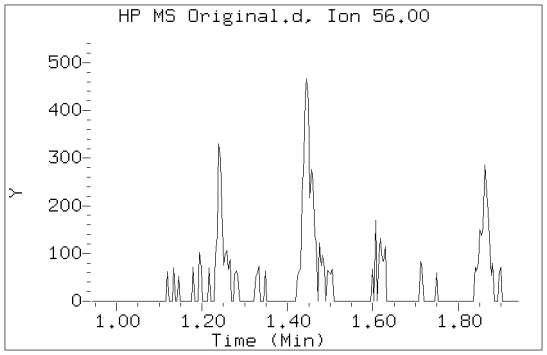


Acrolein (107-02-8)

Reason Code:

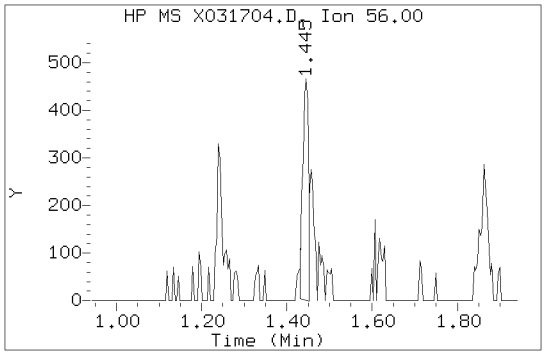
BEFORE

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



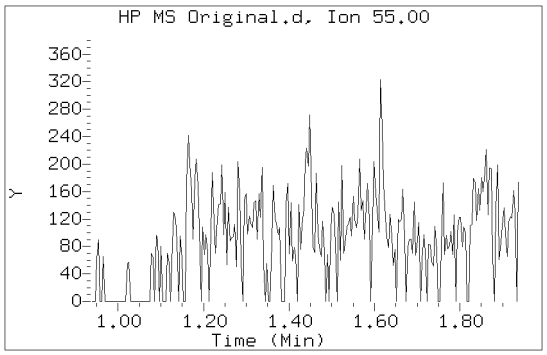
AFTER

MASS
56
AREA
474
HEIGHT
464
30-Mar-2023
12:41
linh
pham



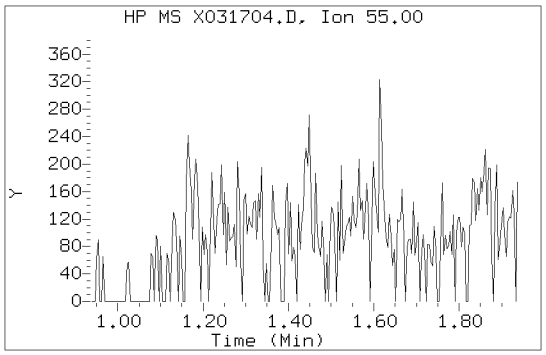
BEFORE

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



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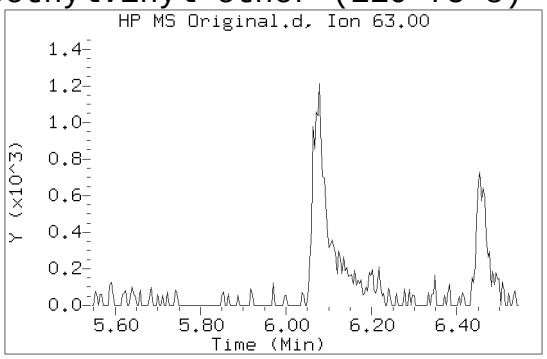
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

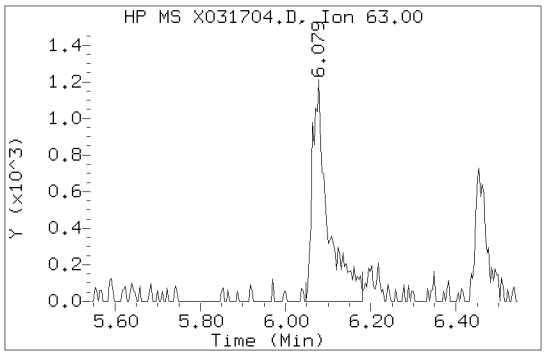
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

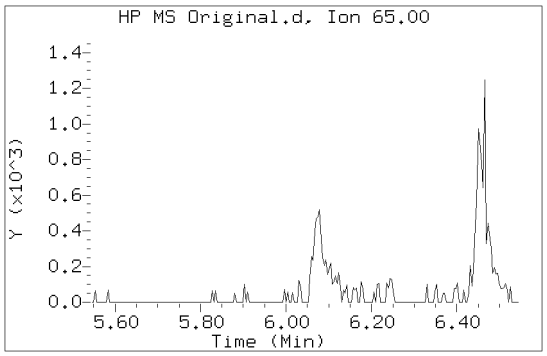
BEFORE
MASS
63
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



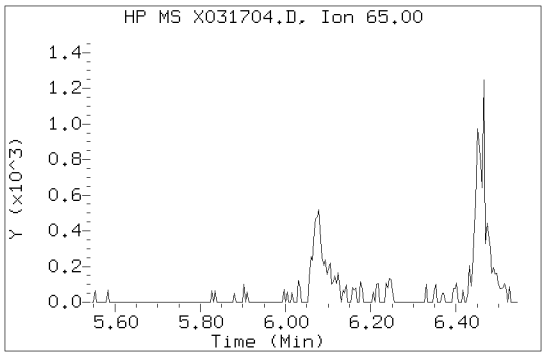
AFTER
MASS
63
AREA
3065
HEIGHT
1212
30-Mar-2023
12:41
linh
pham



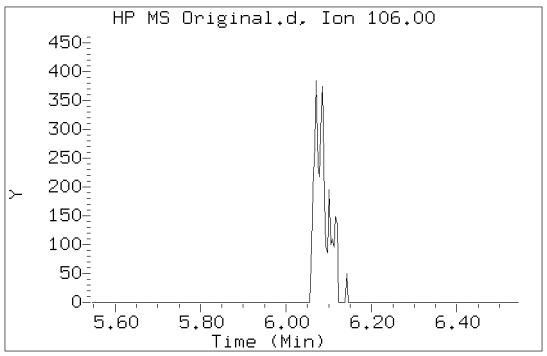
BEFORE
MASS
65
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



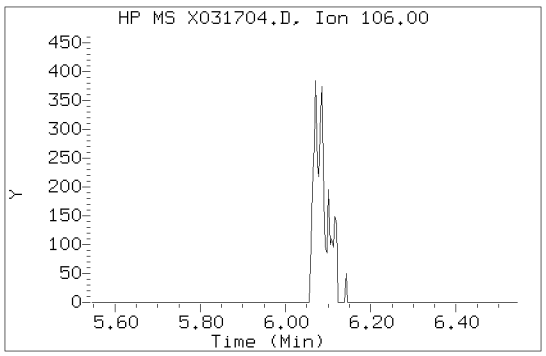
AFTER
MASS
65
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
106
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



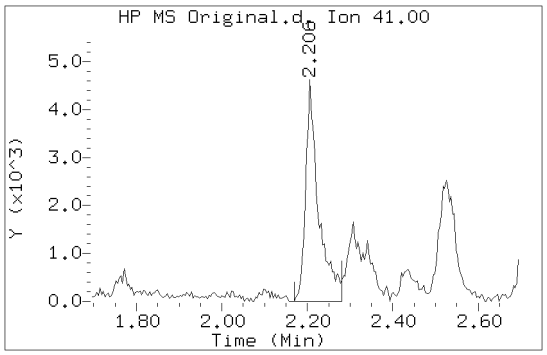
AFTER
MASS
106
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



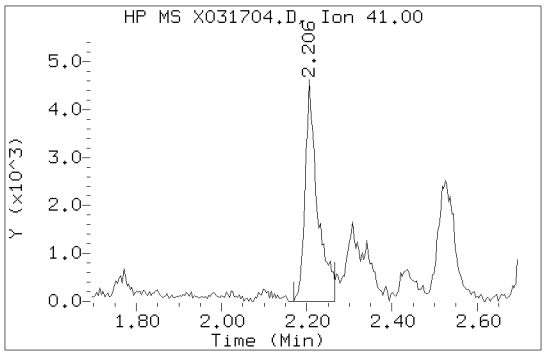
Allyl Chloride (107-05-1)

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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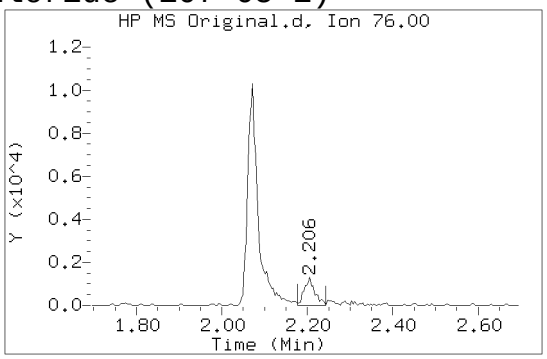
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Allyl Chloride (107-05-1)

Reason Code:

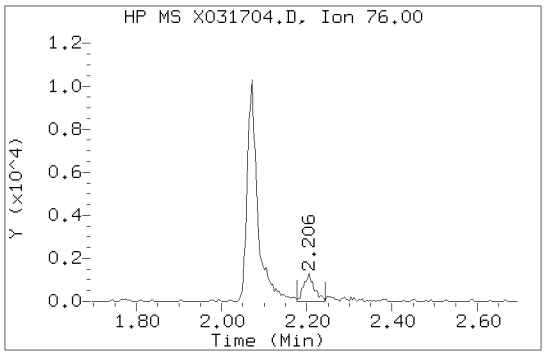
BEFORE

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

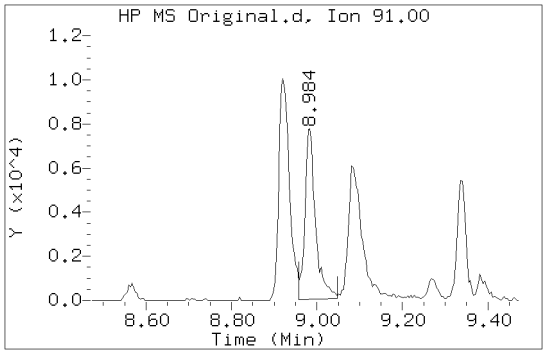


2-Chlorotoluene (95-49-8)

Reason Code:

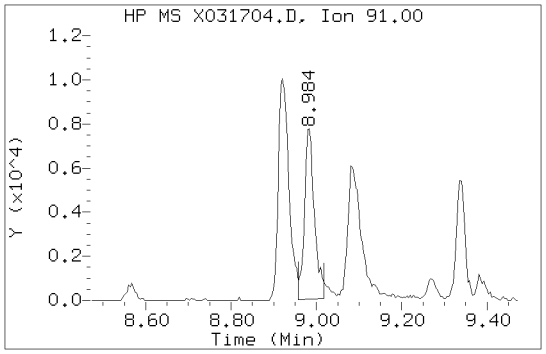
BEFORE

MASS
91
AREA
13436
HEIGHT
7740
30-Mar-2023
12:33
linh
pham



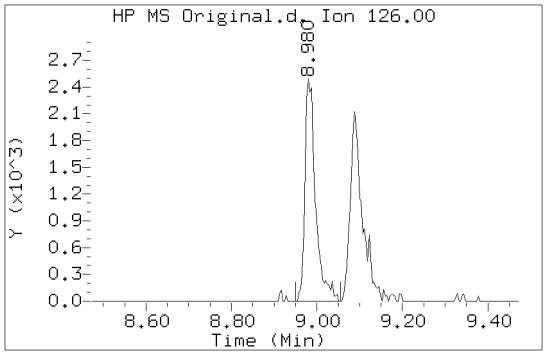
AFTER

MASS
91
AREA
12773
HEIGHT
7740
30-Mar-2023
12:41
linh
pham



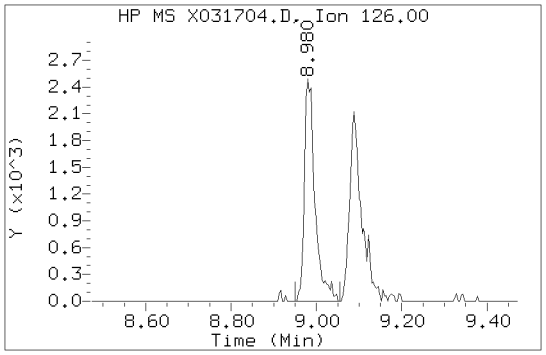
BEFORE

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

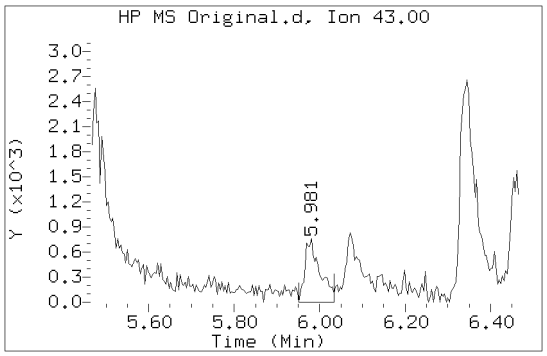


2-Nitropropane (79-46-9)

Reason Code:

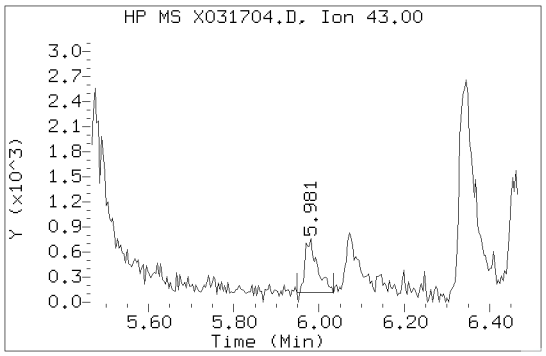
BEFORE

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



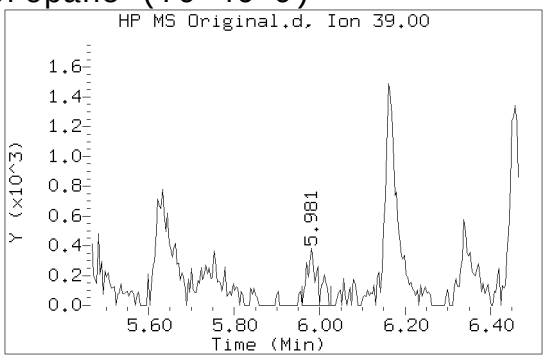
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

2-Nitropropane (79-46-9)

Reason Code:

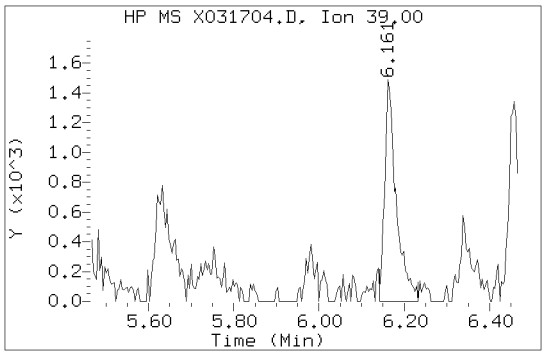
BEFORE

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

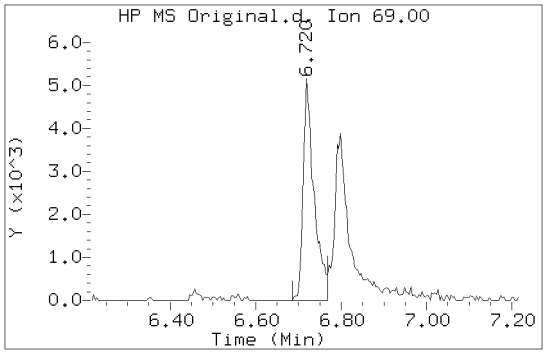


Ethyl Methacrylate (97-63-2)

Reason Code:

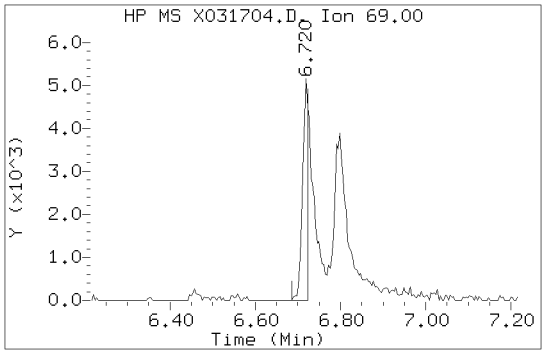
BEFORE

MASS
69
AREA
9311
HEIGHT
5158
30-Mar-2023
12:33
linh
pham



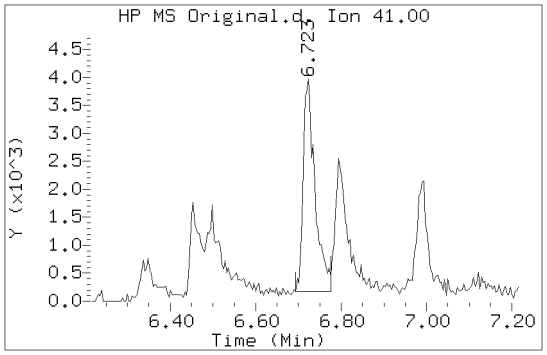
AFTER

MASS
69
AREA
4689
HEIGHT
5158
30-Mar-2023
12:41
linh
pham



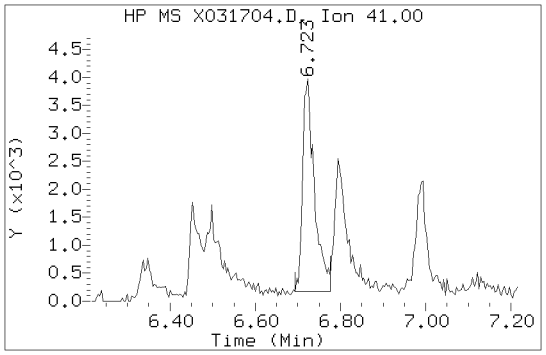
BEFORE

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

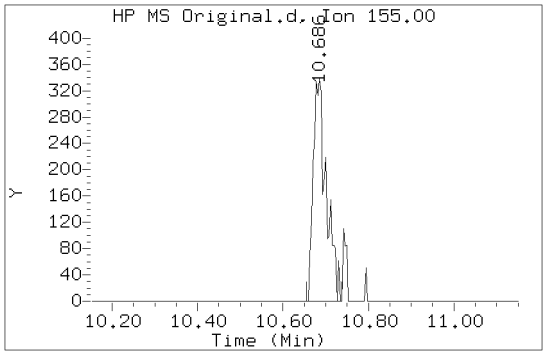


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

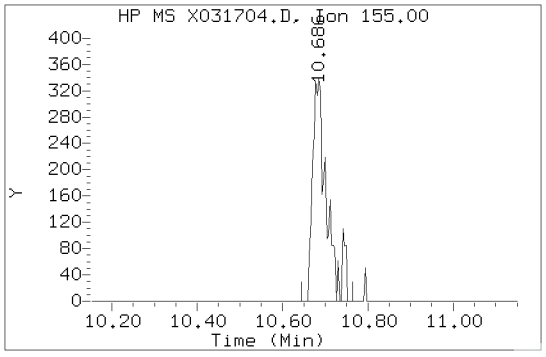
BEFORE

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



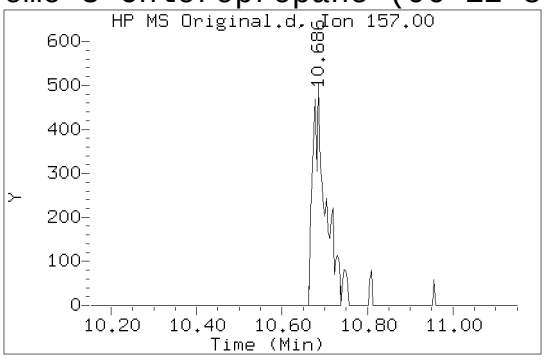
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

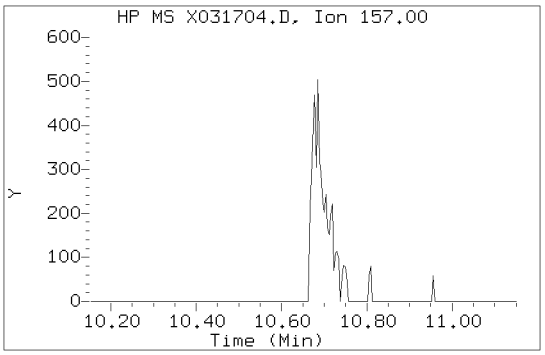
BEFORE

MASS
157
AREA
1030
HEIGHT
504
30-Mar-2023
12:33
linh
pham



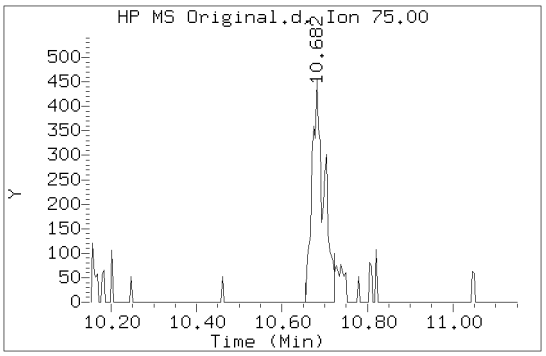
AFTER

MASS
157
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



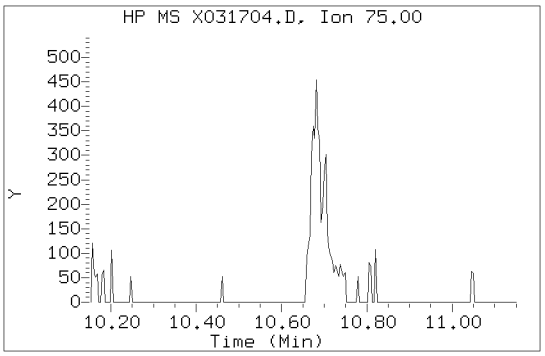
BEFORE

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

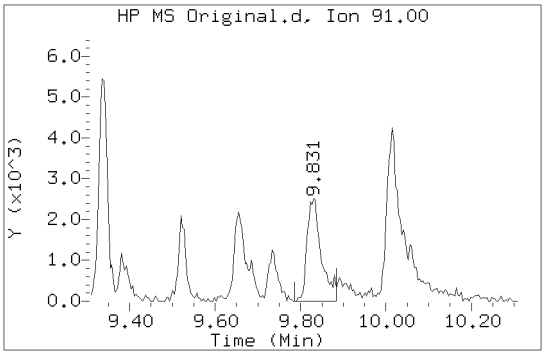


Benzyl Chloride (100-44-7)

Reason Code:

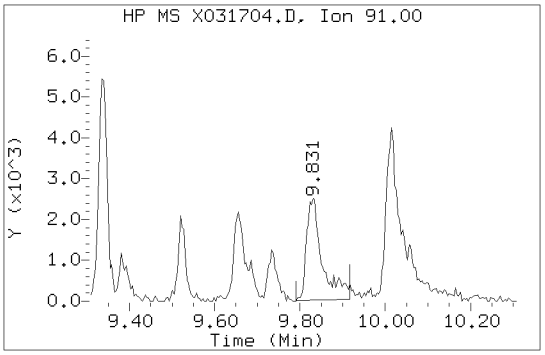
BEFORE

MASS
91
AREA
5843
HEIGHT
2513
30-Mar-2023
12:33
linh
pham



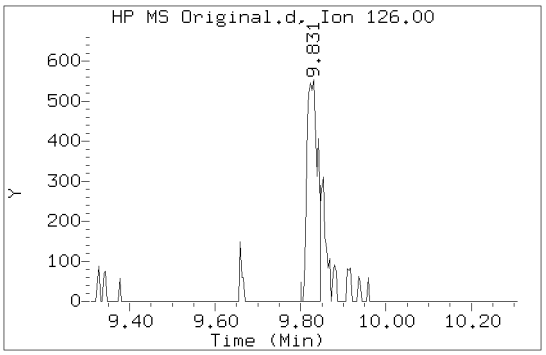
AFTER

MASS
91
AREA
6470
HEIGHT
2487
30-Mar-2023
12:41
linh
pham



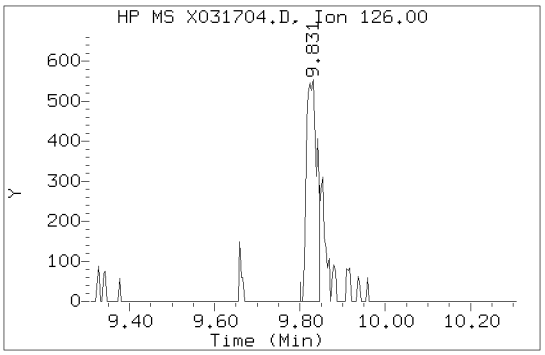
BEFORE

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



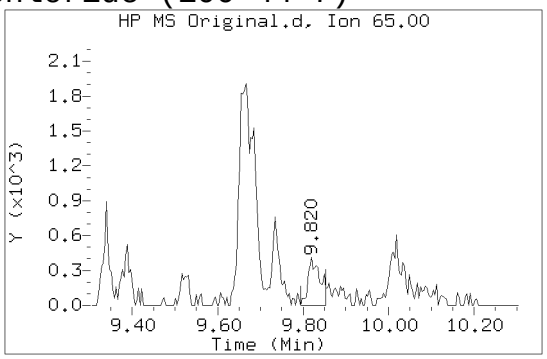
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Benzyl Chloride (100-44-7)

Reason Code:

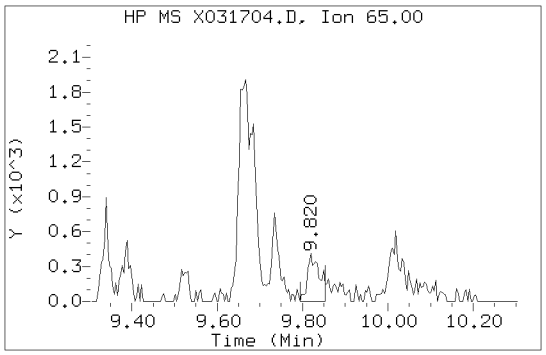
BEFORE

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

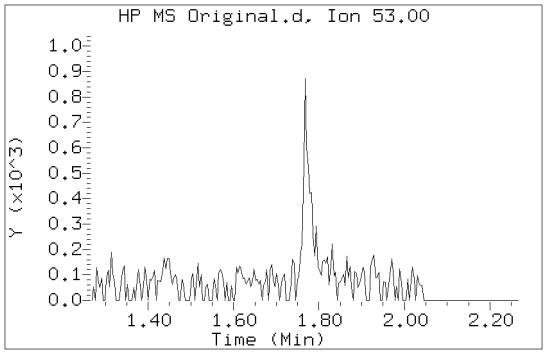


Chloroprene (126-99-8)

Reason Code:

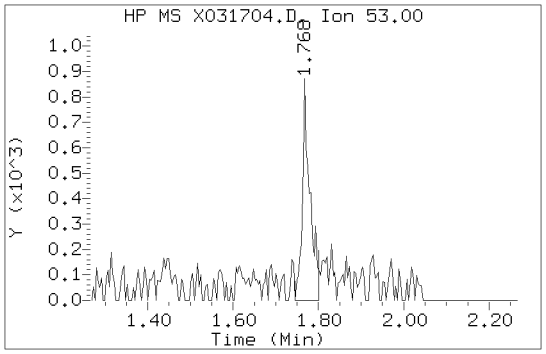
BEFORE

MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



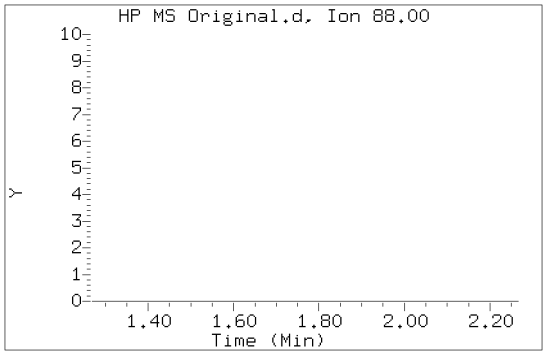
AFTER

MASS
53
AREA
1110
HEIGHT
872
30-Mar-2023
12:41
linh
pham



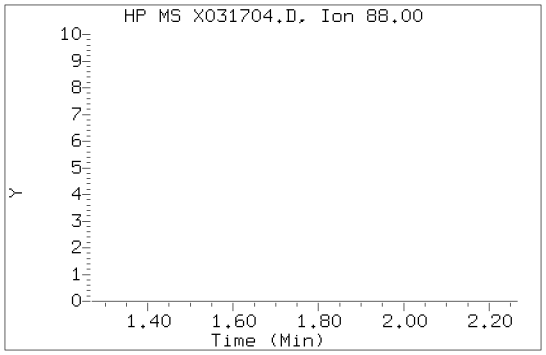
BEFORE

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

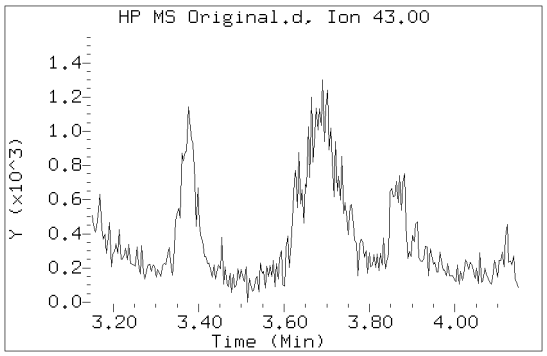


Ethyl Acetate (141-78-6)

Reason Code:

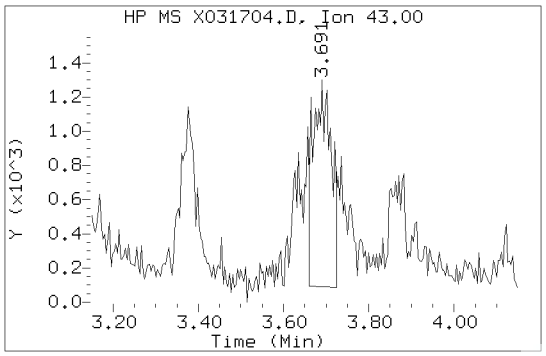
BEFORE

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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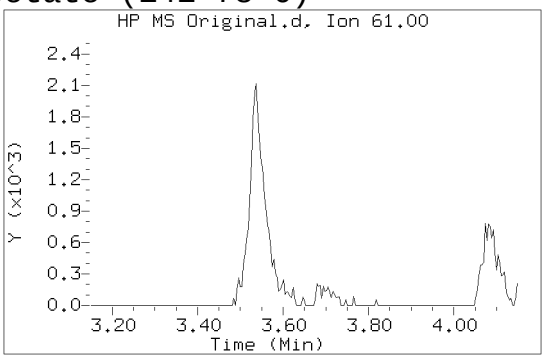
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

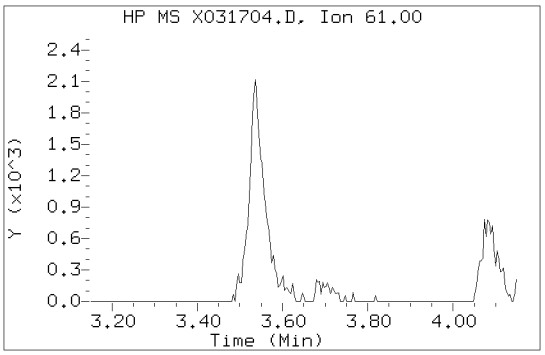
Ethyl Acetate (141-78-6)

BEFORE
MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

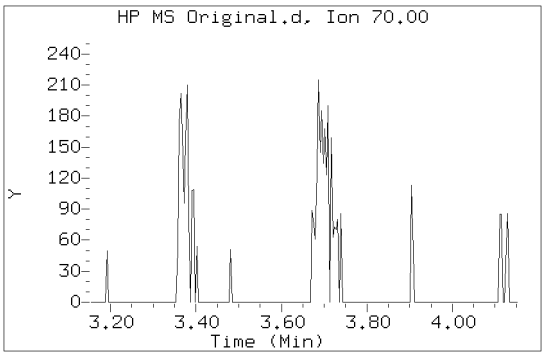


AFTER
MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

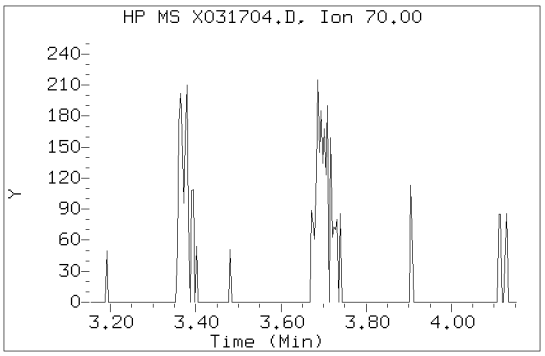
Reason Code:



BEFORE
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

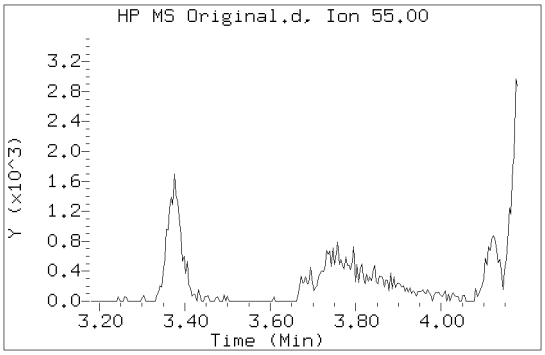


AFTER
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



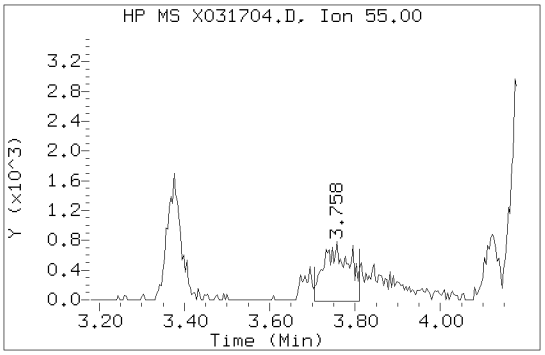
Methyl Acrylate (96-33-3)

BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

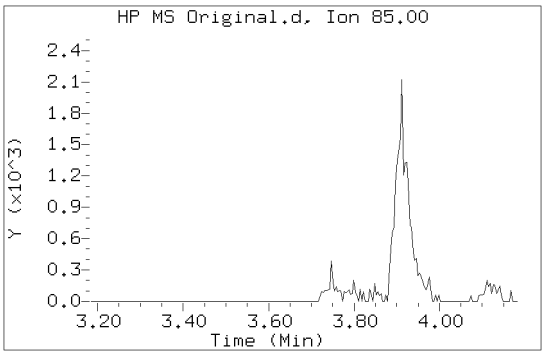


AFTER
MASS
55
AREA
3267
HEIGHT
805
30-Mar-2023
12:41
linh
pham

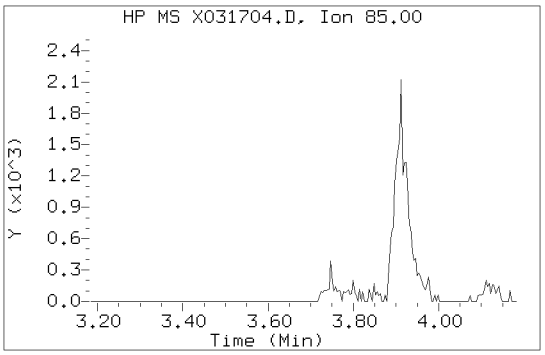
Reason Code:



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



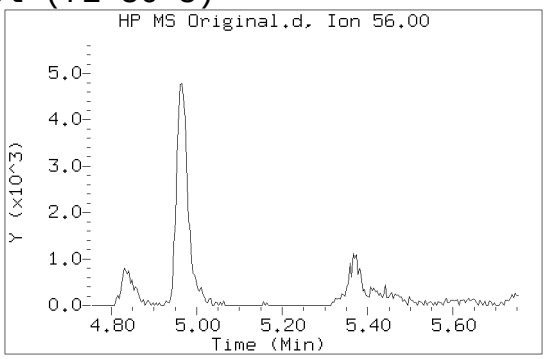
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

n-Butanol (71-36-3)

Reason Code:

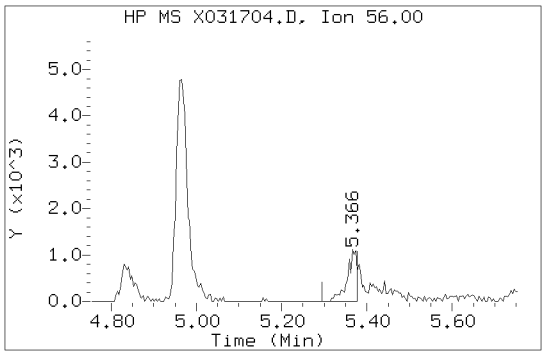
BEFORE

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



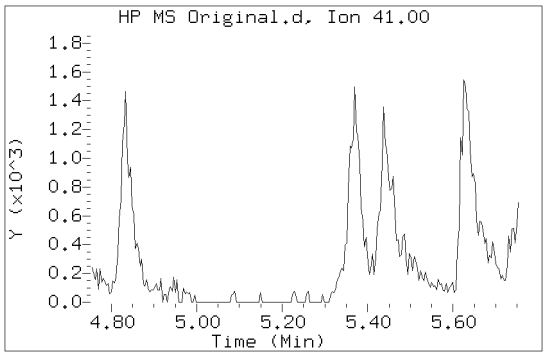
AFTER

MASS
56
AREA
1715
HEIGHT
1125
30-Mar-2023
12:41
linh
pham



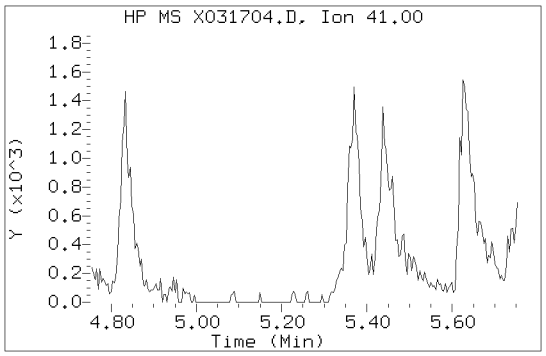
BEFORE

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

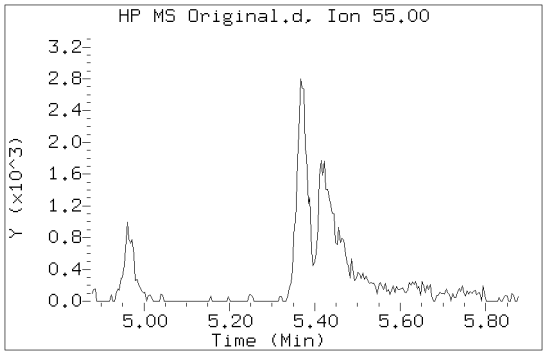


Ethyl Acrylate (140-88-5)

Reason Code:

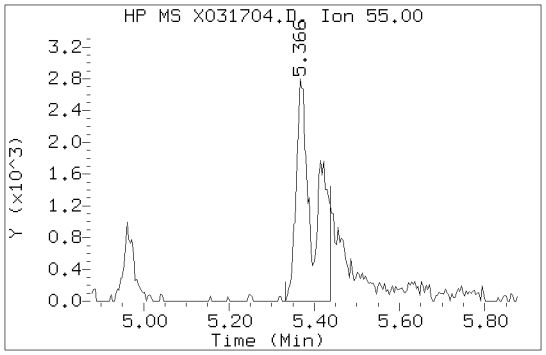
BEFORE

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



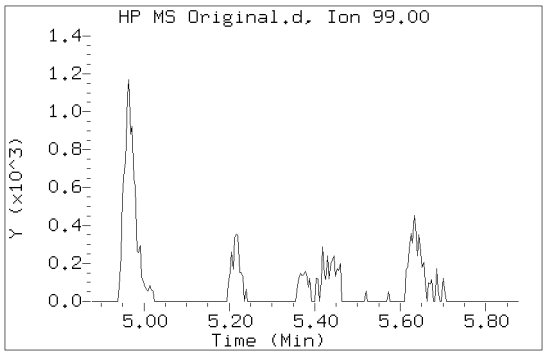
AFTER

MASS
55
AREA
8164
HEIGHT
2799
30-Mar-2023
12:41
linh
pham



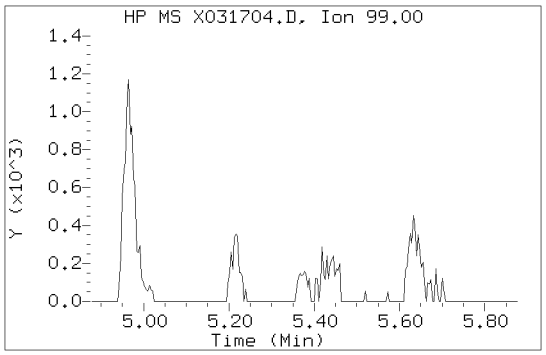
BEFORE

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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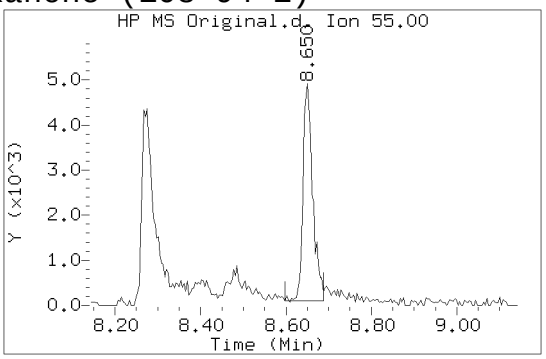
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Cyclohexanone (108-94-1)

Reason Code:

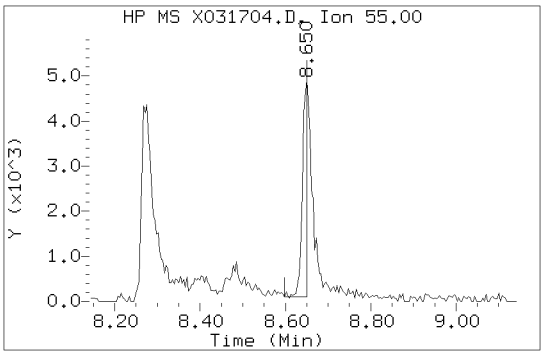
BEFORE

MASS
55
AREA
7784
HEIGHT
4818
30-Mar-2023
12:33
linh
pham



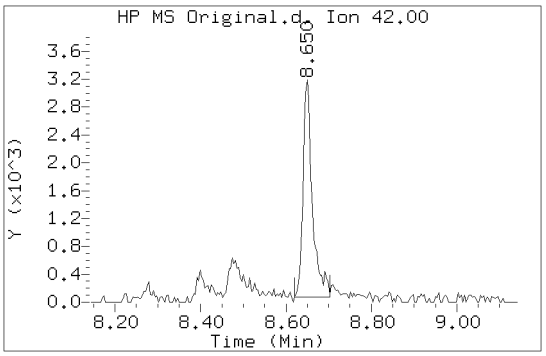
AFTER

MASS
55
AREA
3987
HEIGHT
4818
30-Mar-2023
12:41
linh
pham



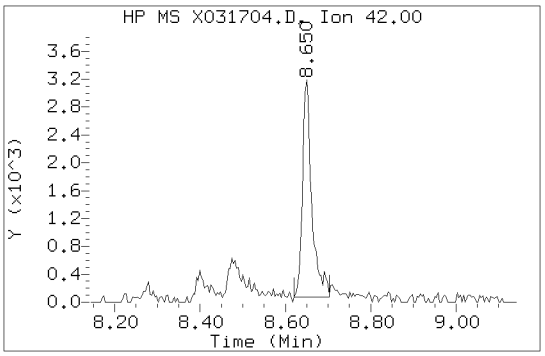
BEFORE

MASS
42
AREA
4854
HEIGHT
3120
30-Mar-2023
12:33
linh
pham



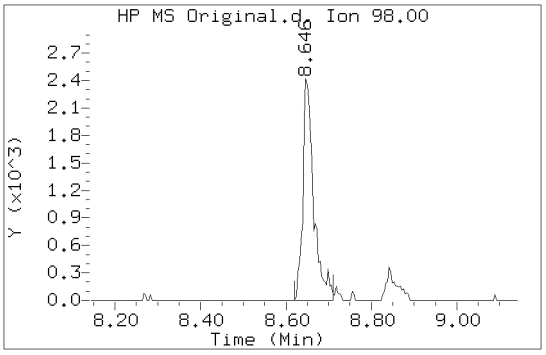
AFTER

MASS
42
AREA
4854
HEIGHT
3120
30-Mar-2023
12:41
linh
pham



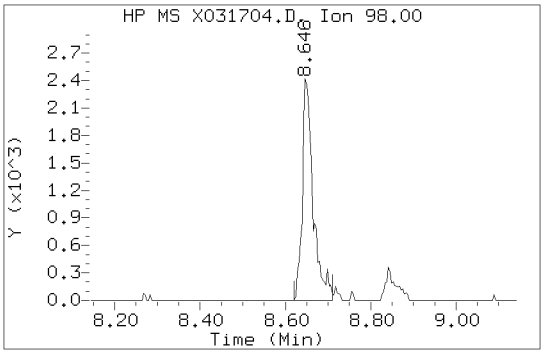
BEFORE

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

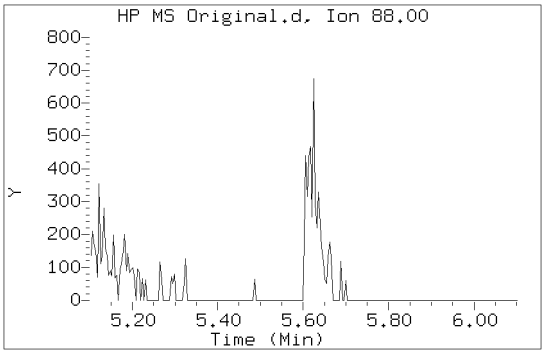


1,4-Dioxane ()

Reason Code:

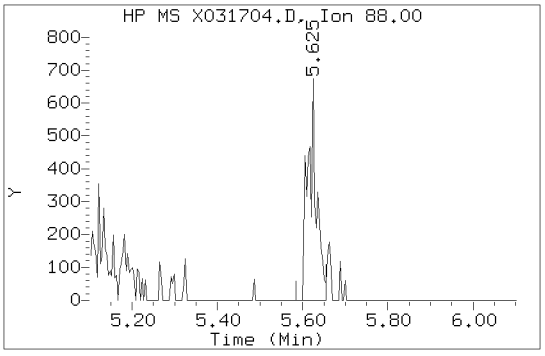
BEFORE

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



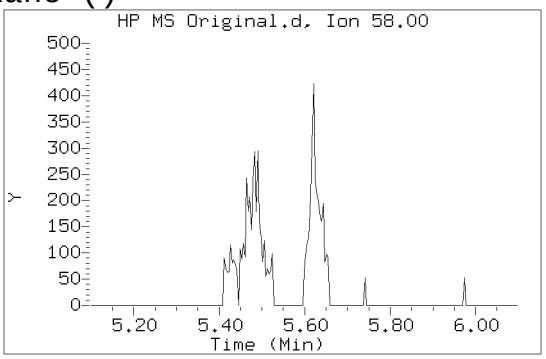
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,4-Dioxane ()

Reason Code:

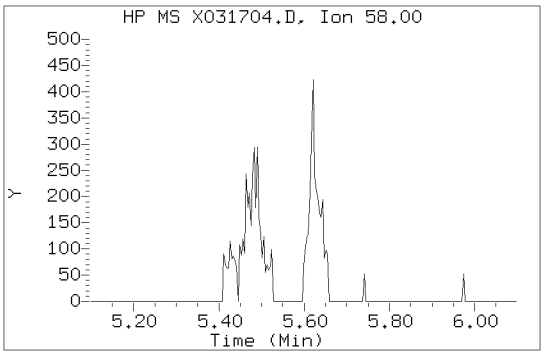
BEFORE

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
58
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

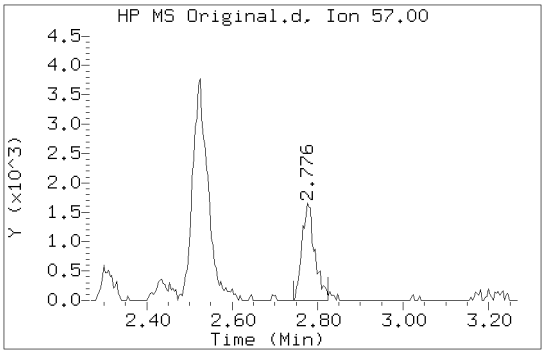


n-Hexane (110-54-3)

Reason Code:

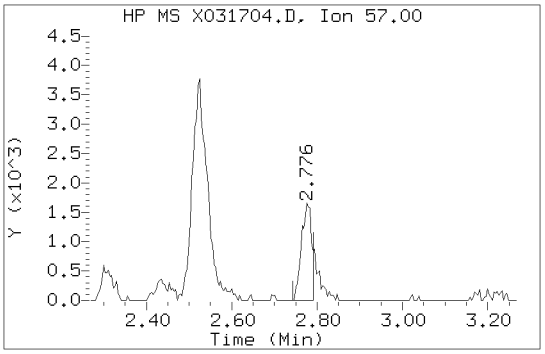
BEFORE

MASS
57
AREA
3493
HEIGHT
1662
30-Mar-2023
12:33
linh
pham



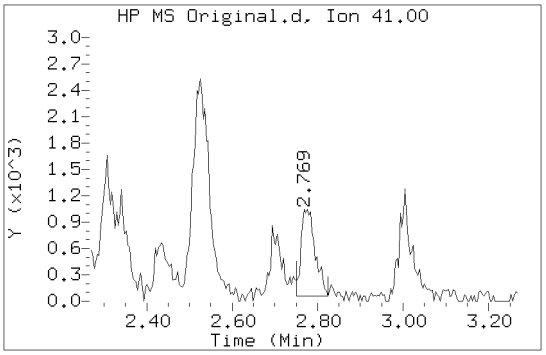
AFTER

MASS
57
AREA
2771
HEIGHT
1662
30-Mar-2023
12:41
linh
pham



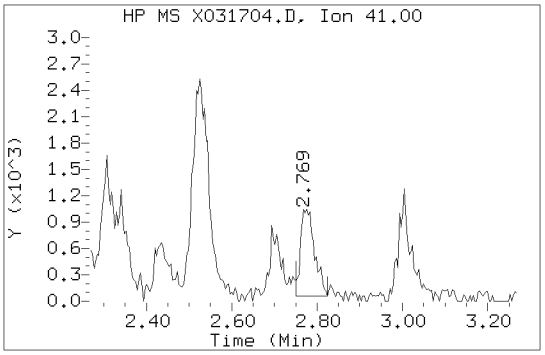
BEFORE

MASS
41
AREA
2298
HEIGHT
985
30-Mar-2023
12:33
linh
pham



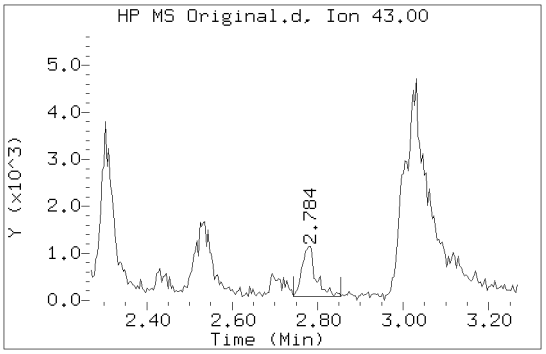
AFTER

MASS
41
AREA
2298
HEIGHT
985
30-Mar-2023
12:41
linh
pham



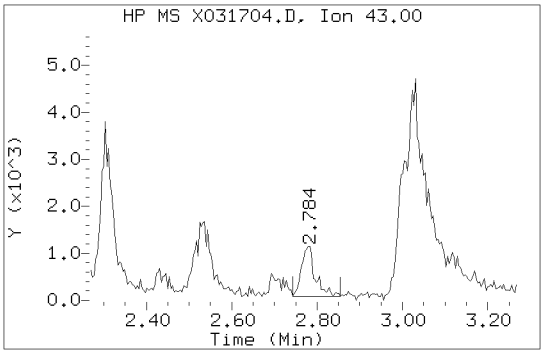
BEFORE

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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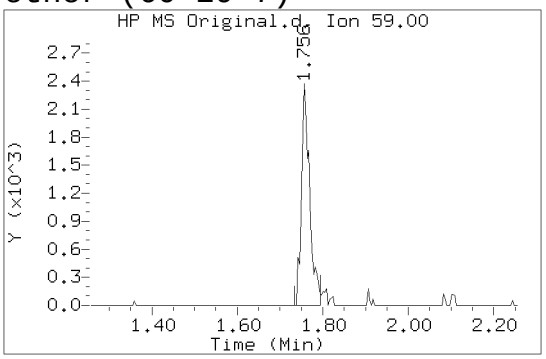
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Diethyl ether (60-29-7)

Reason Code:

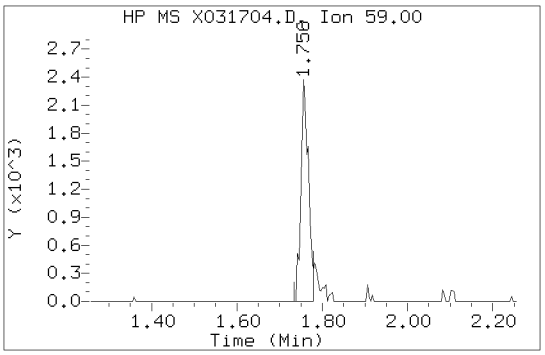
BEFORE

MASS
59
AREA
3185
HEIGHT
2372
30-Mar-2023
12:33
linh
pham



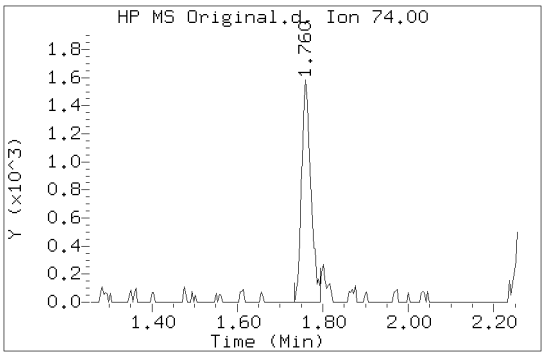
AFTER

MASS
59
AREA
2934
HEIGHT
2372
30-Mar-2023
12:41
linh
pham



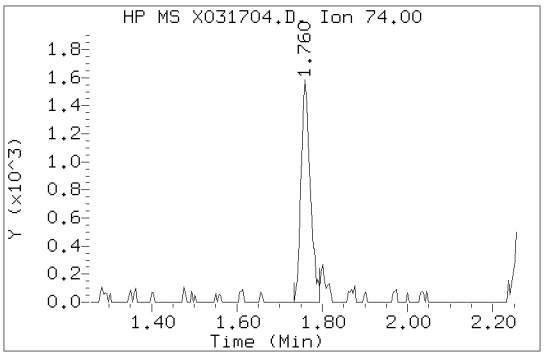
BEFORE

MASS
74
AREA
2425
HEIGHT
1584
30-Mar-2023
12:33
linh
pham



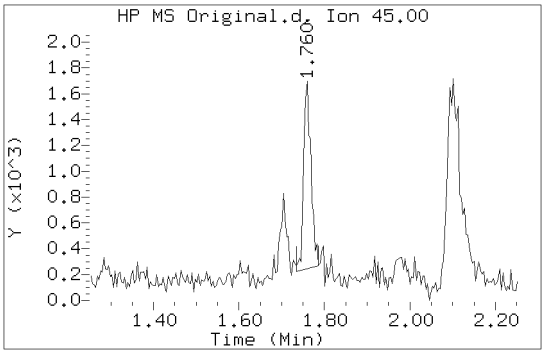
AFTER

MASS
74
AREA
2425
HEIGHT
1584
30-Mar-2023
12:41
linh
pham



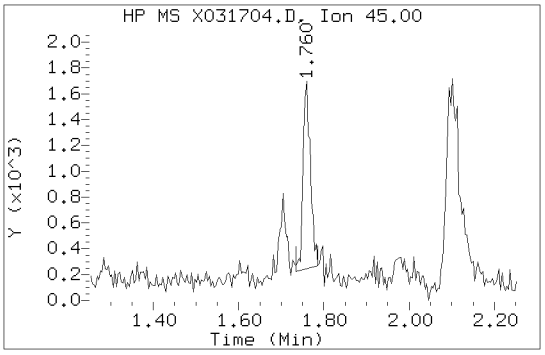
BEFORE

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

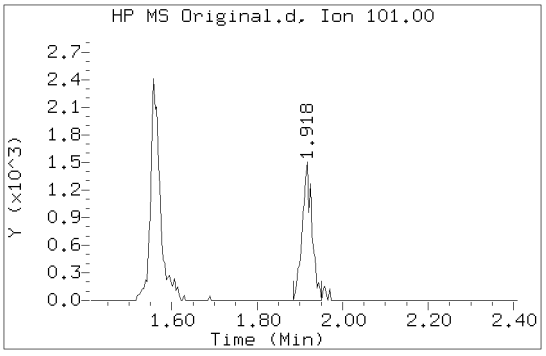


Freon TF (76-13-1)

Reason Code:

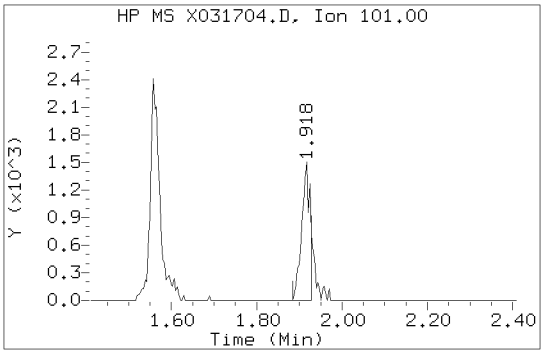
BEFORE

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

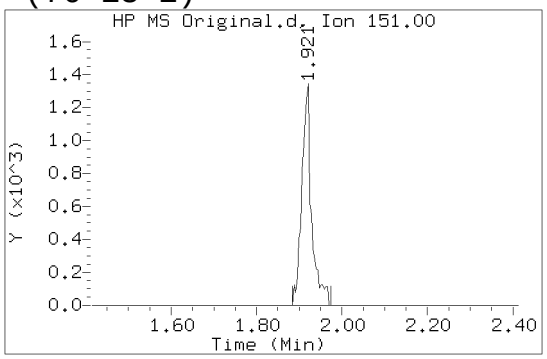


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Freon TF (76-13-1)

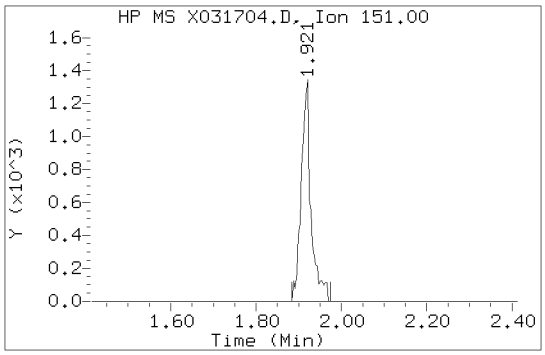
BEFORE

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

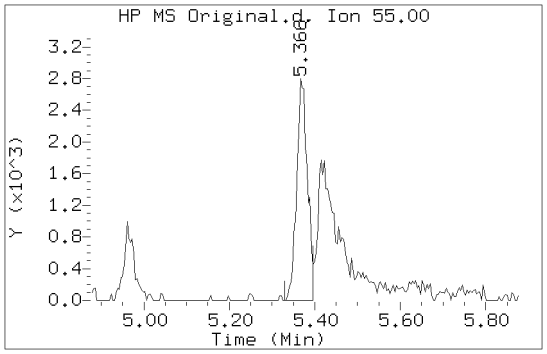


Reason Code:

Methylcyclohexane (108-87-2)

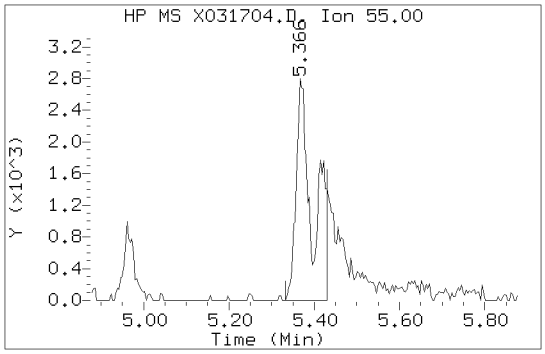
BEFORE

MASS
55
AREA
4999
HEIGHT
2799
30-Mar-2023
12:33
linh
pham



AFTER

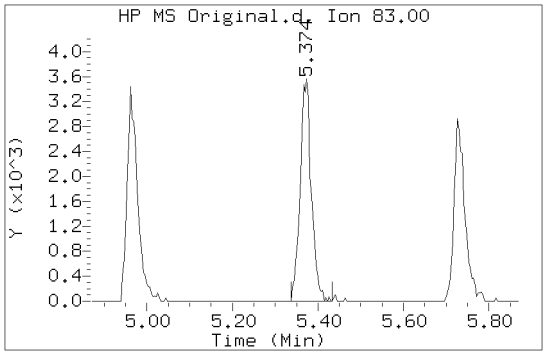
MASS
55
AREA
7595
HEIGHT
2799
30-Mar-2023
12:41
linh
pham



Reason Code:

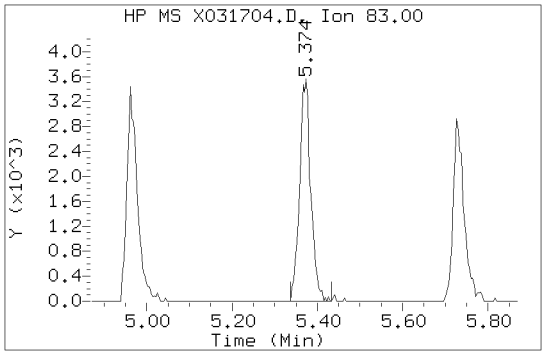
BEFORE

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

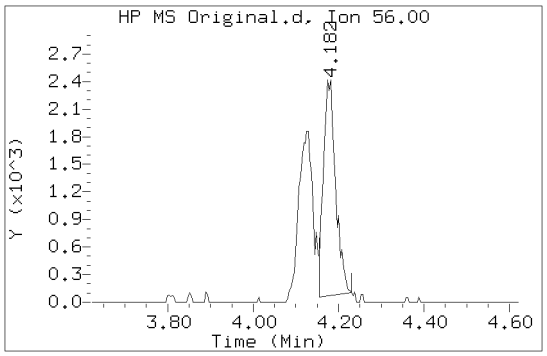


Reason Code:

Cyclohexane (110-82-7)

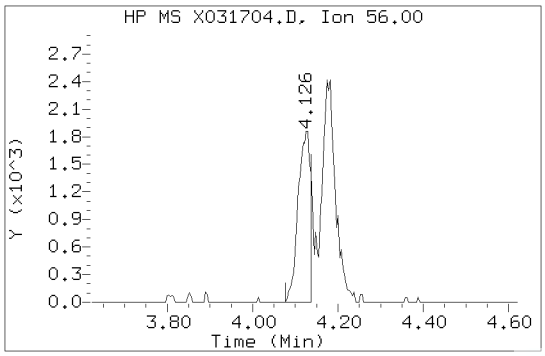
BEFORE

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



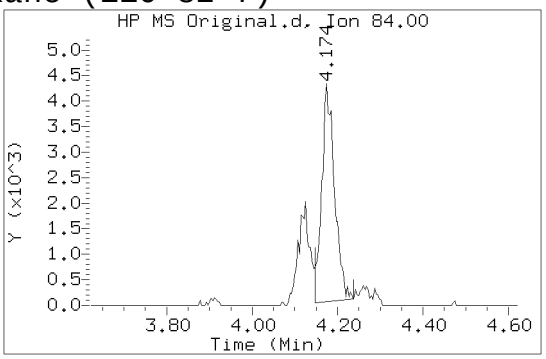
Reason Code:

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)

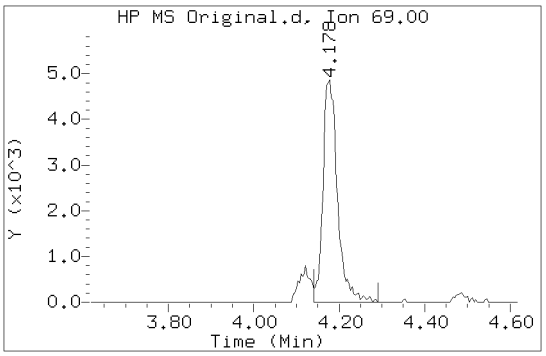
BEFORE

MASS
84
AREA
8833
HEIGHT
4266
30-Mar-2023
12:33
linh
pham



BEFORE

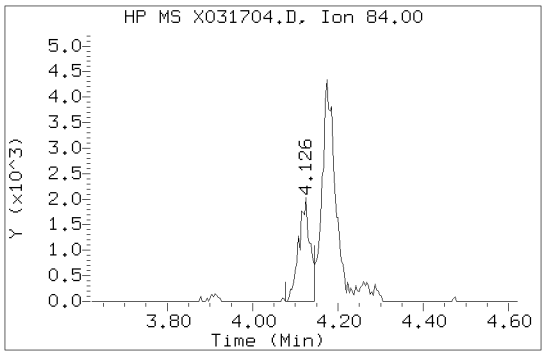
MASS
69
AREA
11518
HEIGHT
4862
30-Mar-2023
12:33
linh
pham



Reason Code:

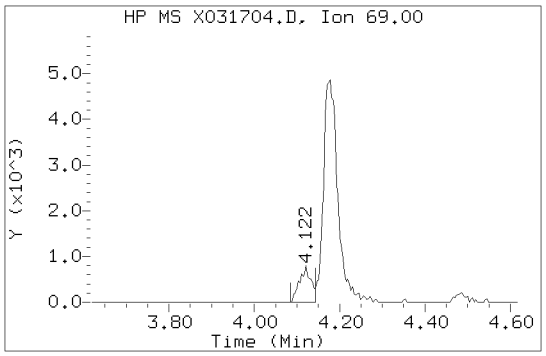
AFTER

MASS
84
AREA
3798
HEIGHT
2028
30-Mar-2023
12:41
linh
pham



AFTER

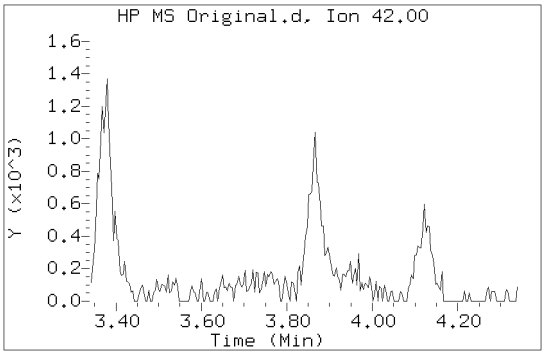
MASS
69
AREA
1536
HEIGHT
806
30-Mar-2023
12:41
linh
pham



Tetrahydrofuran (109-99-9)

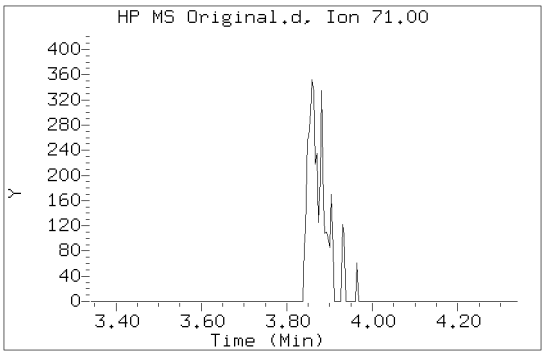
BEFORE

MASS
42
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



BEFORE

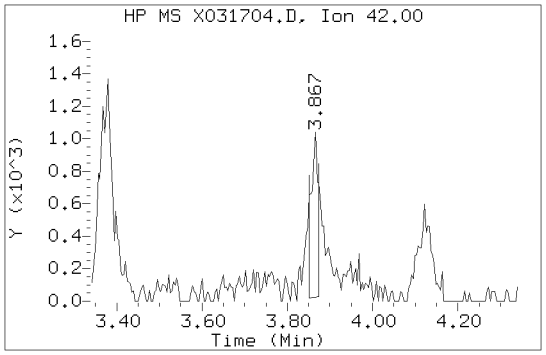
MASS
71
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

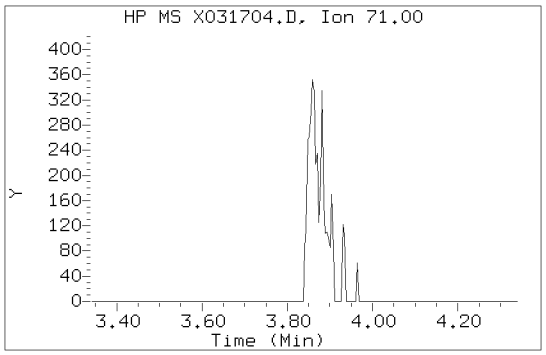
AFTER

MASS
42
AREA
1179
HEIGHT
1015
30-Mar-2023
12:41
linh
pham



AFTER

MASS
71
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



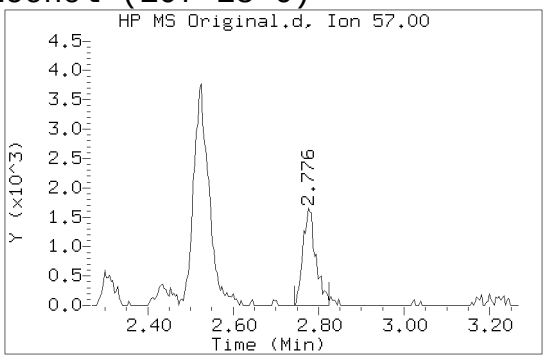
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Allyl alcohol (107-18-6)

Reason Code:

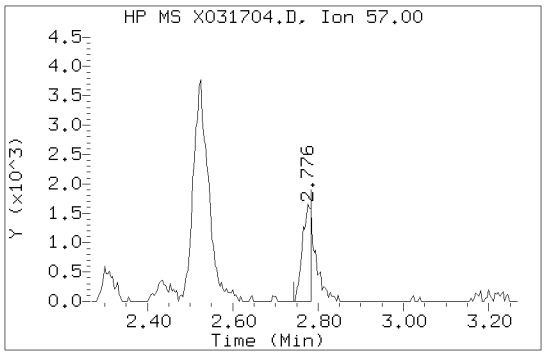
BEFORE

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

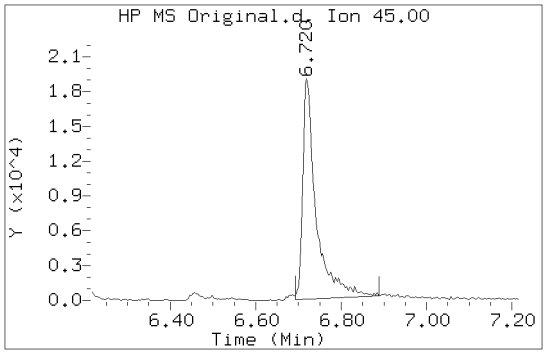


4-Methyl-2-pentanol (108-11-2)

Reason Code:

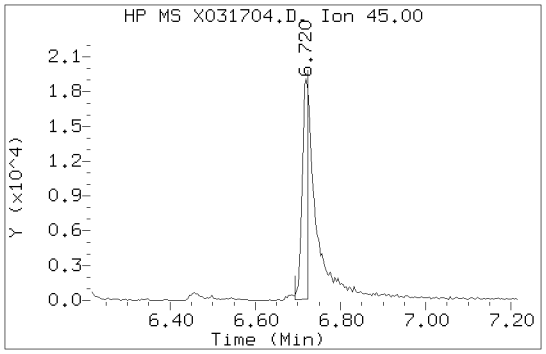
BEFORE

MASS
45
AREA
42281
HEIGHT
19018
30-Mar-2023
12:33
linh
pham



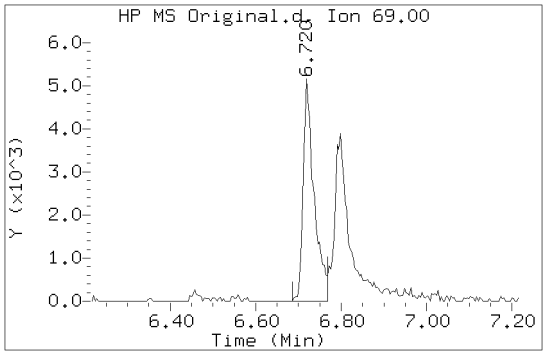
AFTER

MASS
45
AREA
18895
HEIGHT
19018
30-Mar-2023
12:41
linh
pham



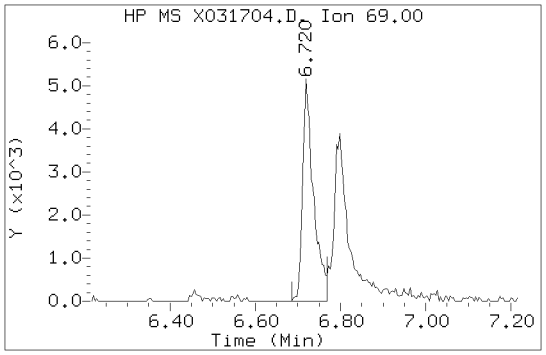
BEFORE

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

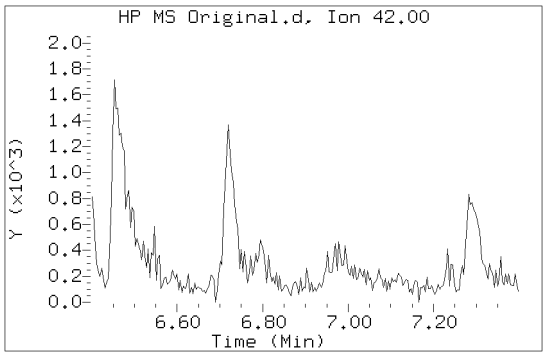


Amyl alcohol (71-41-0)

Reason Code:

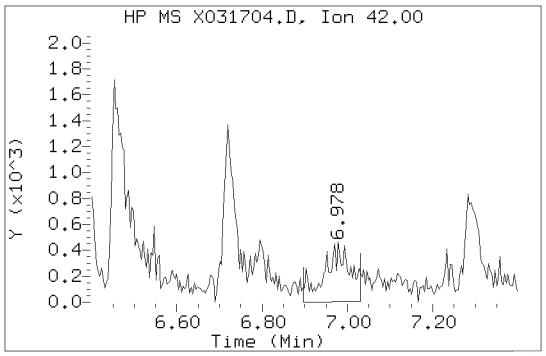
BEFORE

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

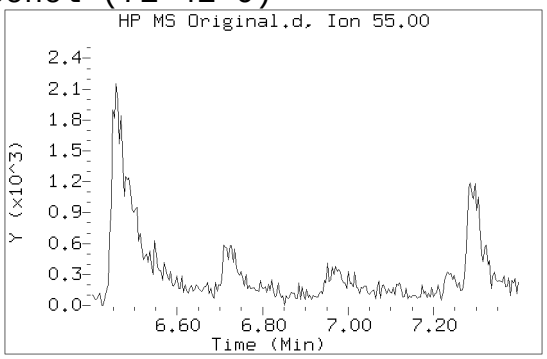


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

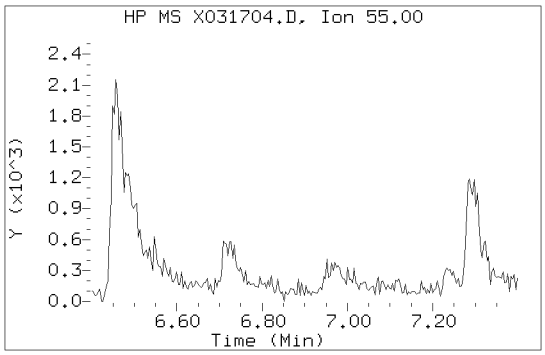
Amyl alcohol (71-41-0)

Reason Code:

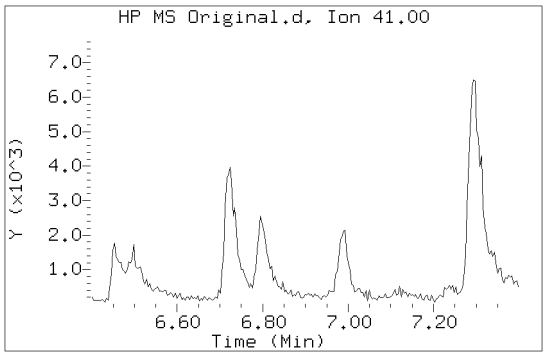
BEFORE
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



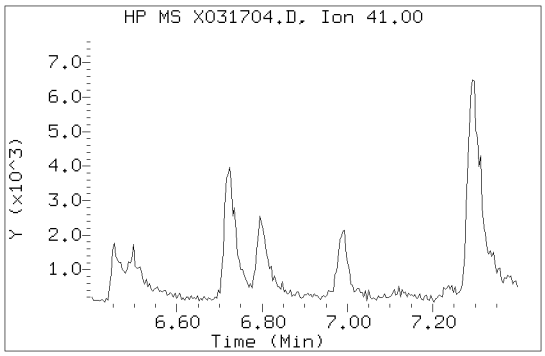
AFTER
MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



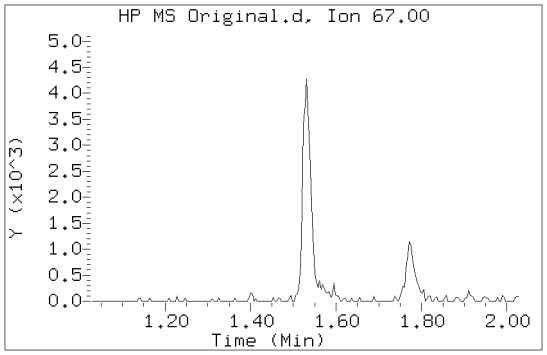
AFTER
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



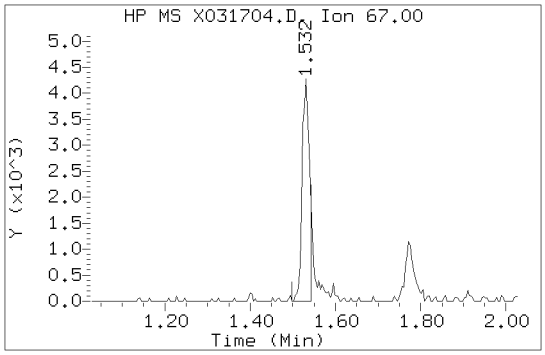
Dichlorofluoromethane (75-43-4)

Reason Code:

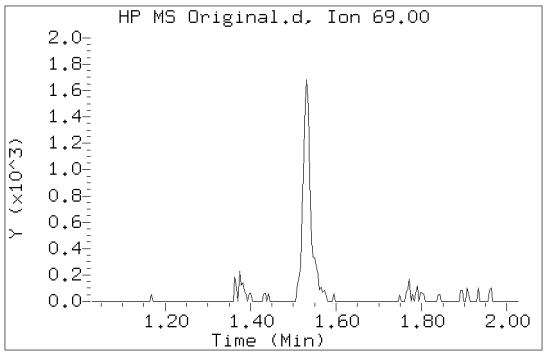
BEFORE
MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



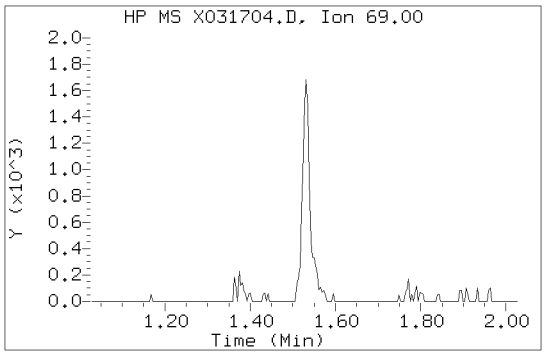
AFTER
MASS
67
AREA
5093
HEIGHT
4276
30-Mar-2023
12:41
linh
pham



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



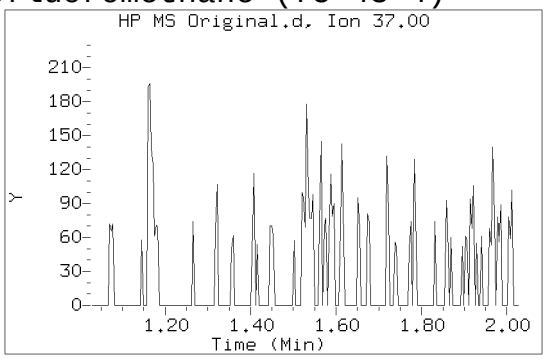
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Dichlorofluoromethane (75-43-4)

Reason Code:

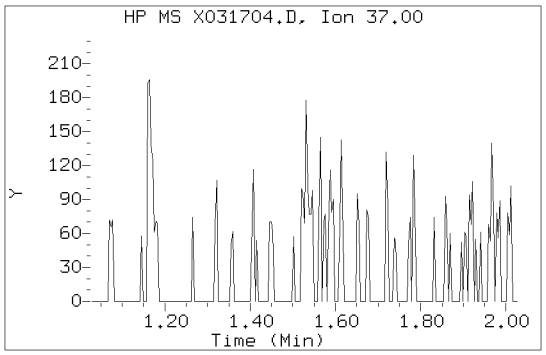
BEFORE

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

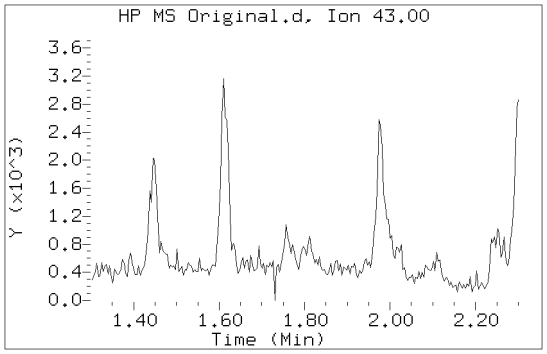


Propylene oxide ()

Reason Code:

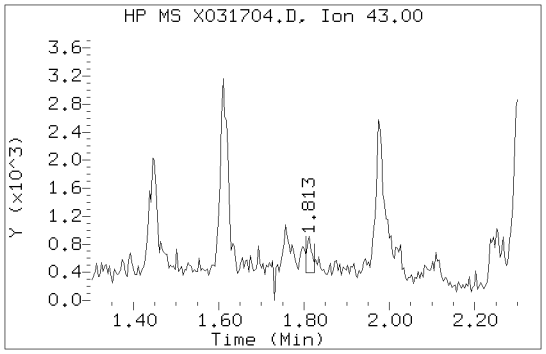
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



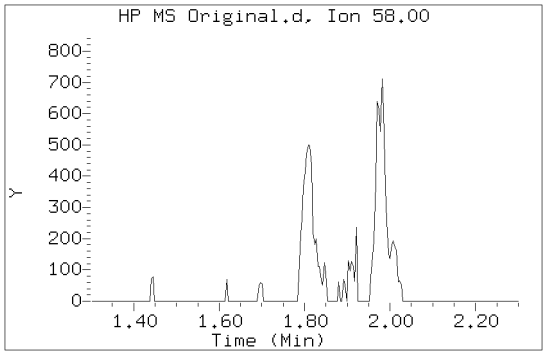
AFTER

MASS
43
AREA
432
HEIGHT
520
30-Mar-2023
12:41
linh
pham



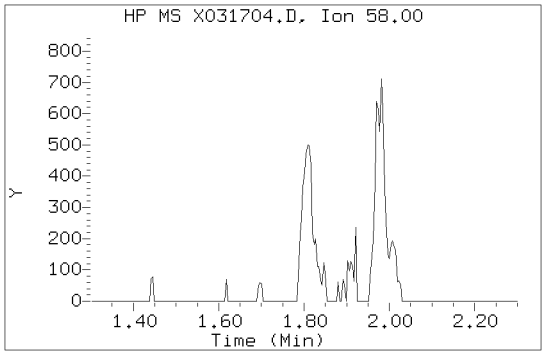
BEFORE

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

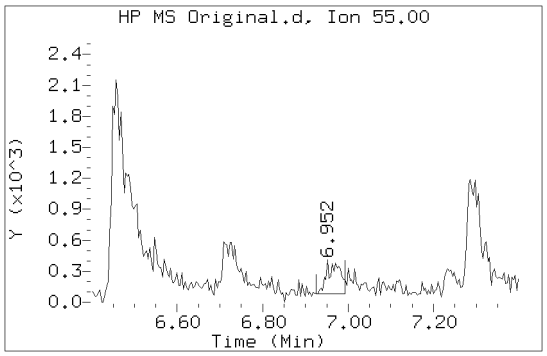


3-Methyl-1-butanol (123-51-3)

Reason Code:

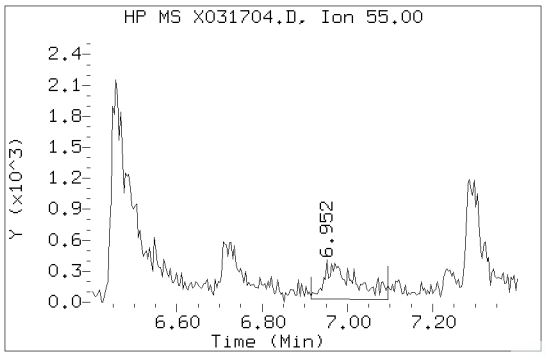
BEFORE

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



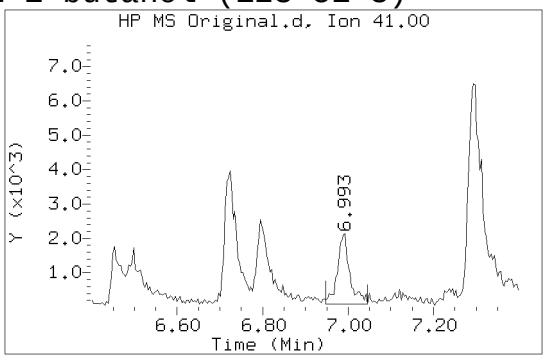
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

3-Methyl-1-butanol (123-51-3)

Reason Code:

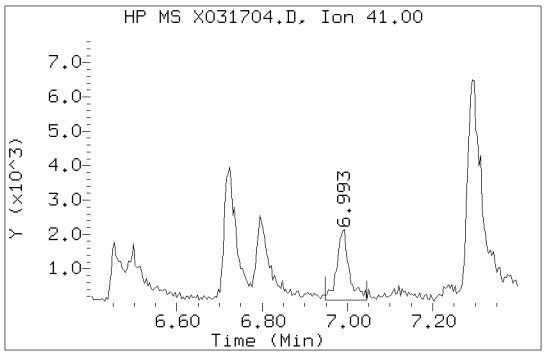
BEFORE

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

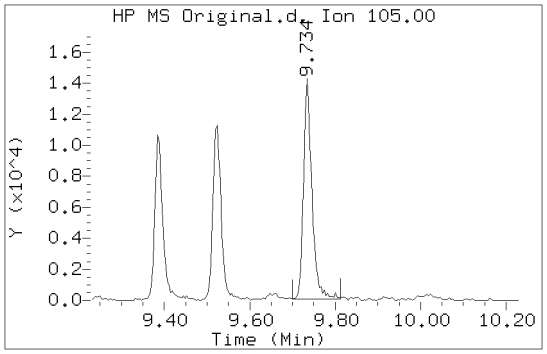


1,2,3-Trimethylbenzene (526-73-8)

Reason Code:

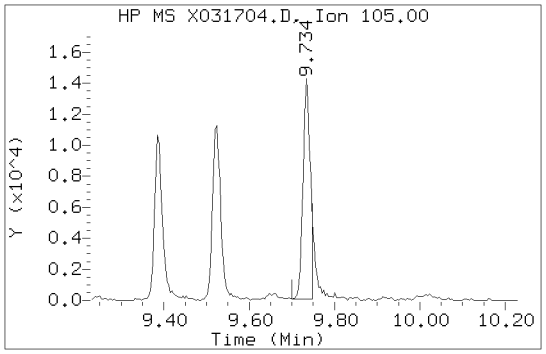
BEFORE

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

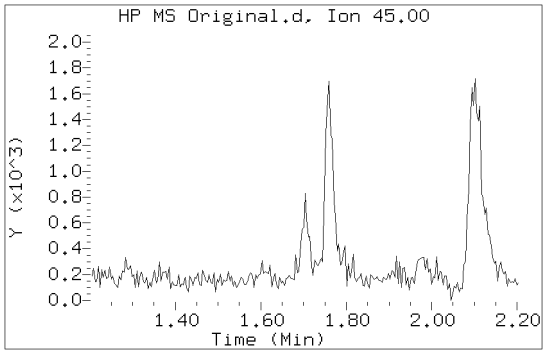


Ethanol (64-17-5)

Reason Code:

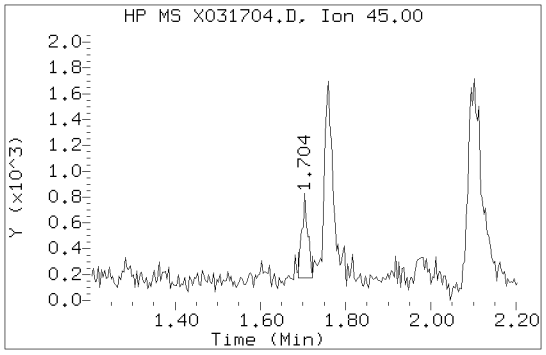
BEFORE

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

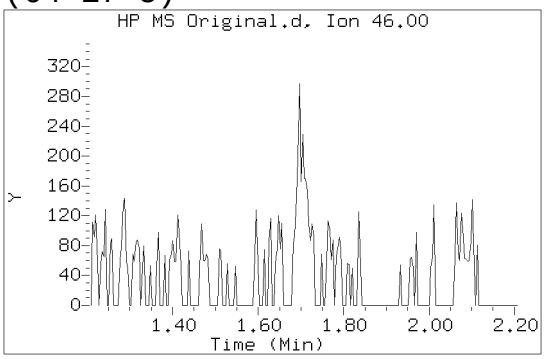


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

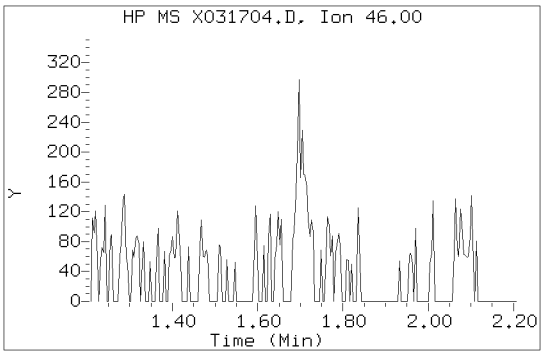
Ethanol (64-17-5)

Reason Code:

BEFORE
MASS
46
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
46
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
43
AREA
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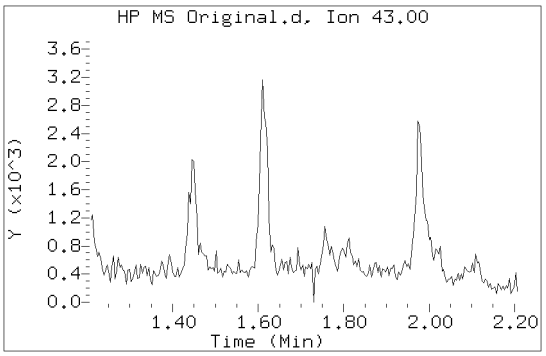
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
43
AREA
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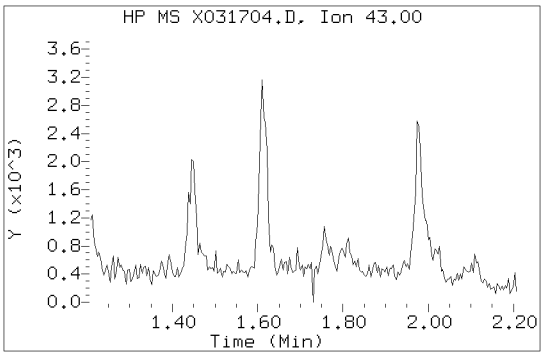
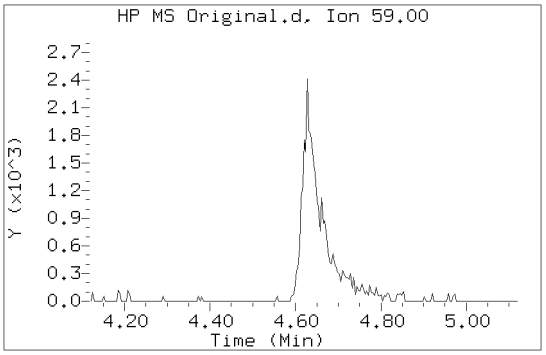
HEIGHT
0
30-Mar-2023
12:41
linh
pham



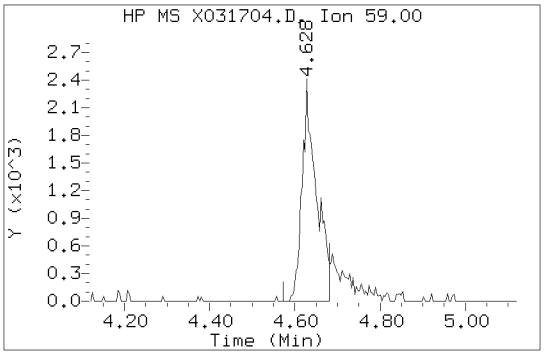
tert-Butyl formate (762-75-4)

Reason Code:

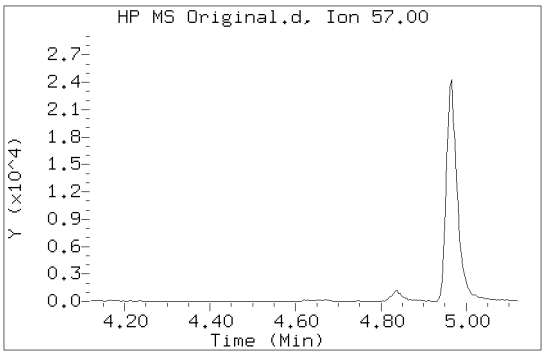
BEFORE
MASS
59
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



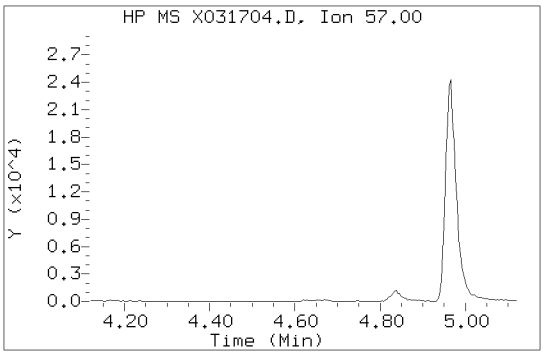
AFTER
MASS
59
AREA
5691
HEIGHT
2413
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham

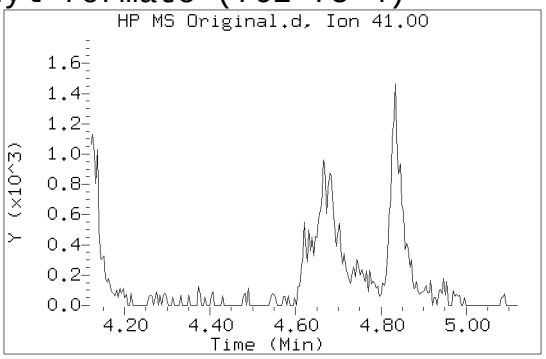


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

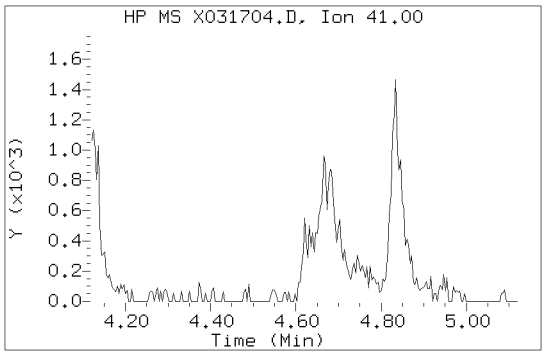
tert-Butyl formate (762-75-4)

Reason Code:

BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



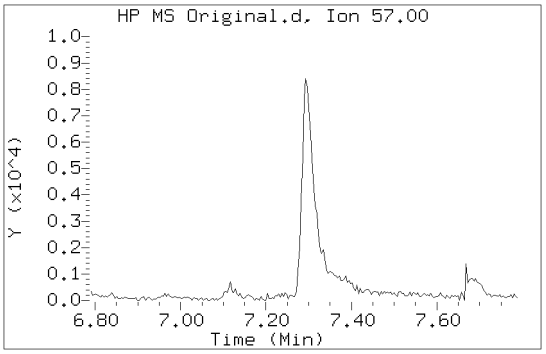
AFTER
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



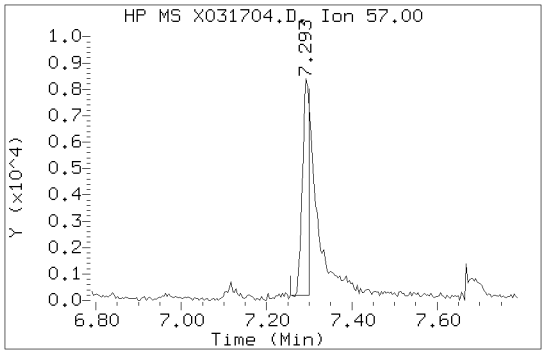
3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

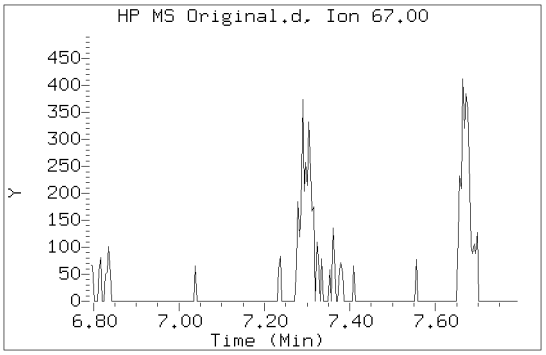
BEFORE
MASS
57
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



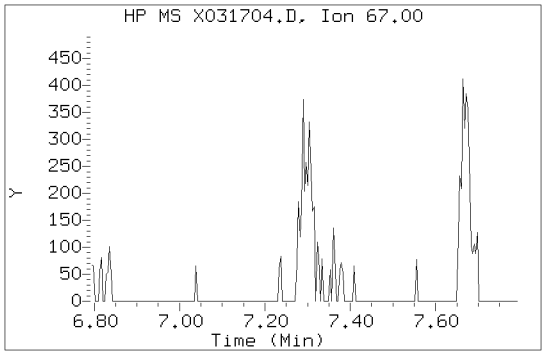
AFTER
MASS
57
AREA
9512
HEIGHT
8210
30-Mar-2023
12:41
linh
pham



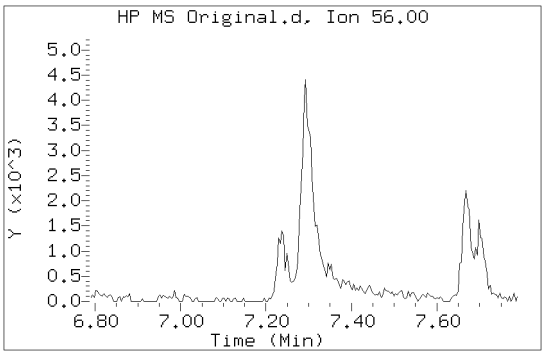
BEFORE
MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



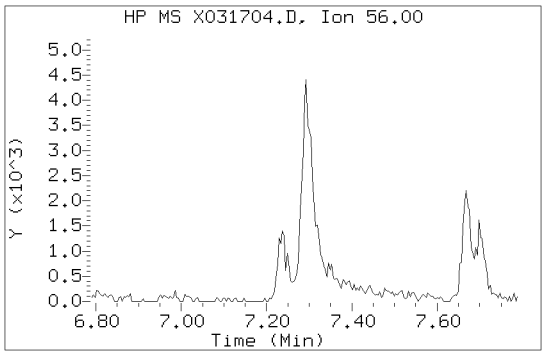
AFTER
MASS
67
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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

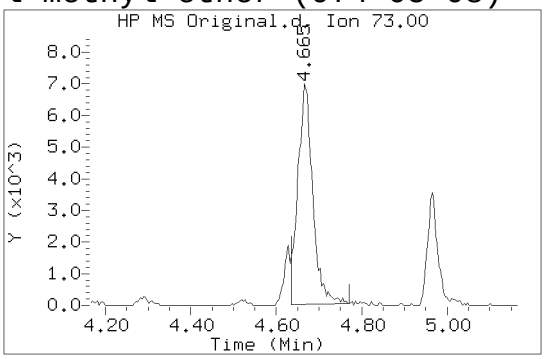


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031704.D
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

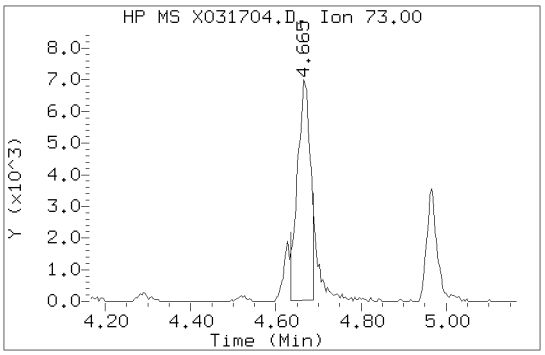
tert-Amyl methyl ether (974-05-08)

Reason Code:

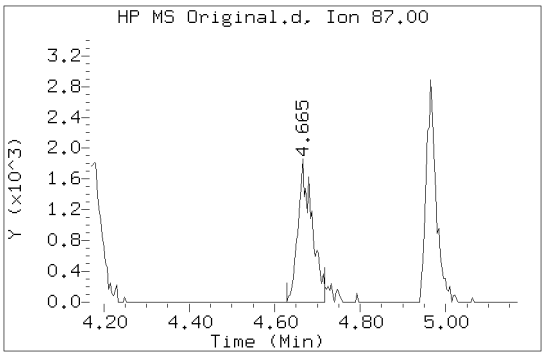
BEFORE
MASS
73
AREA
17196
HEIGHT
6981
30-Mar-2023
12:33
linh
pham



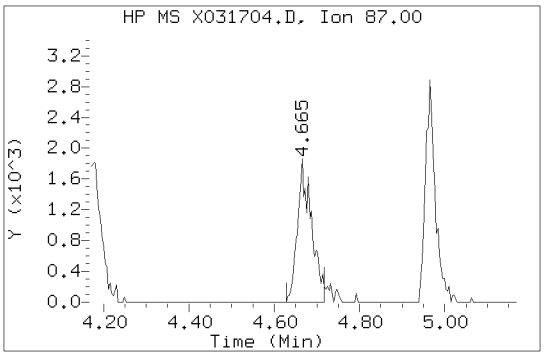
AFTER
MASS
73
AREA
14951
HEIGHT
6982
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
87
AREA
4319
HEIGHT
1864
30-Mar-2023
12:33
linh
pham



AFTER
MASS
87
AREA
4319
HEIGHT
1864
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
55
AREA
4389
HEIGHT
1902
30-Mar-2023
12:33
linh
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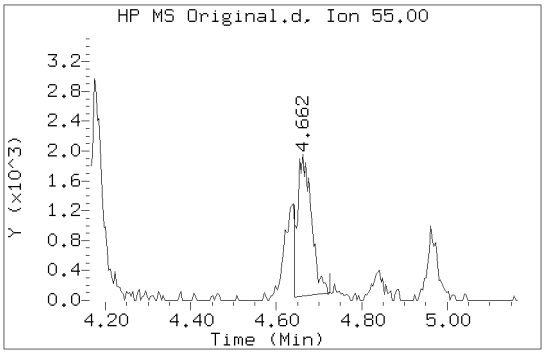

AFTER
MASS
55
AREA
4389
HEIGHT
1902
30-Mar-2023
12:41
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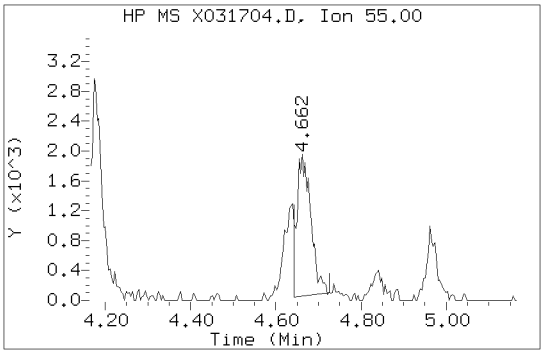
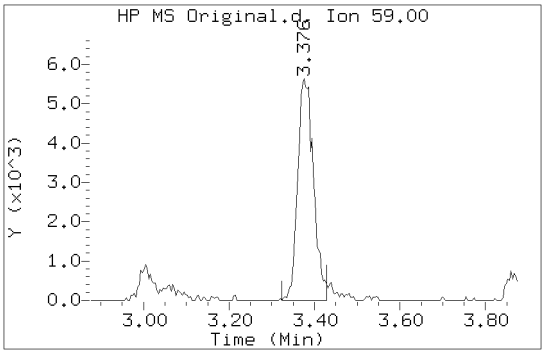


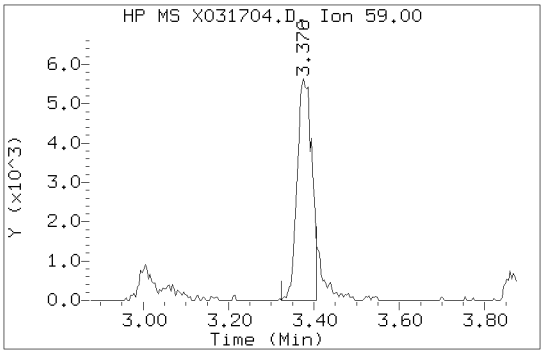
tert-Butyl ethyl ether (637-92-3)

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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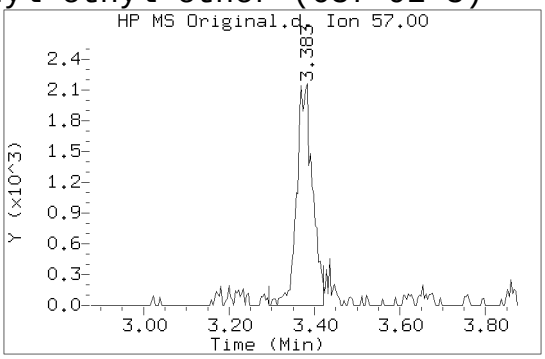
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

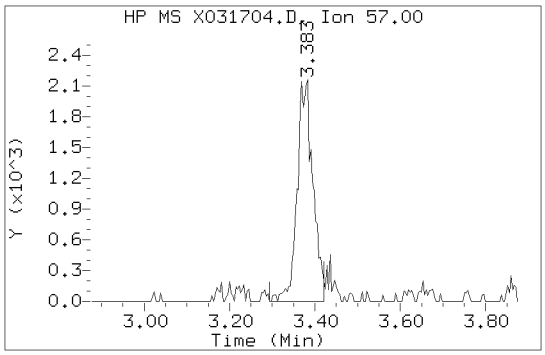
tert-Butyl ethyl ether (637-92-3)

Reason Code:

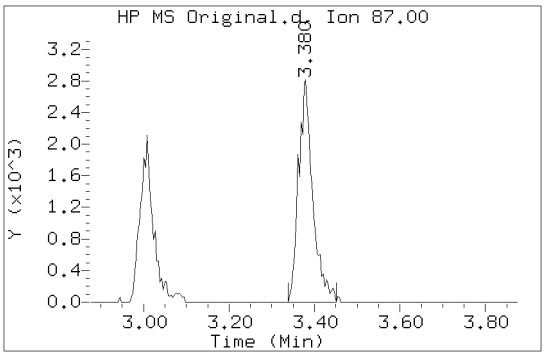
BEFORE
MASS
57
AREA
5639
HEIGHT
2164
30-Mar-2023
12:33
linh
pham



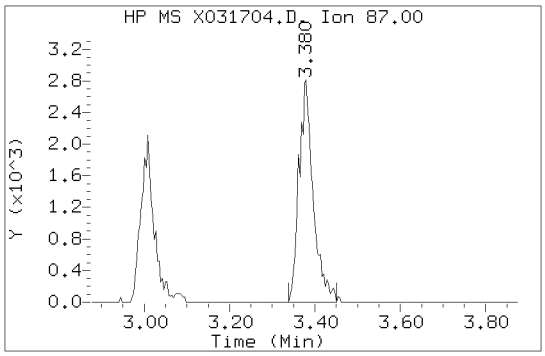
AFTER
MASS
57
AREA
5639
HEIGHT
2164
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
87
AREA
6630
HEIGHT
2813
30-Mar-2023
12:33
linh
pham



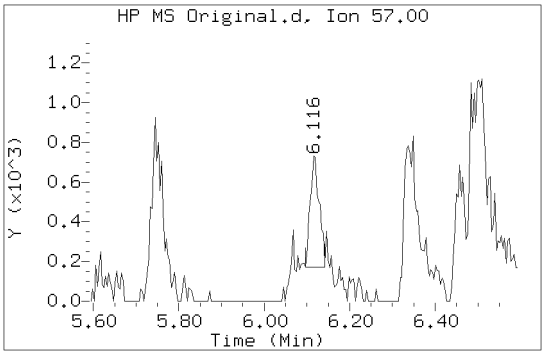
AFTER
MASS
87
AREA
6630
HEIGHT
2813
30-Mar-2023
12:41
linh
pham



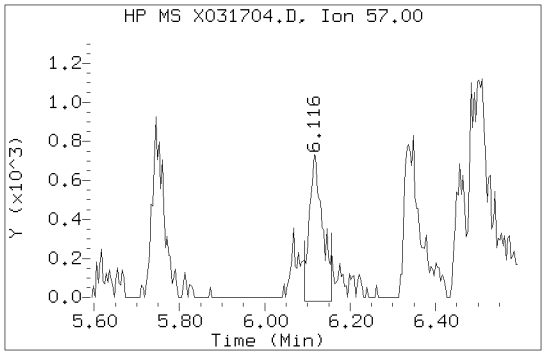
Epichlorohydrin (106-89-8)

Reason Code:

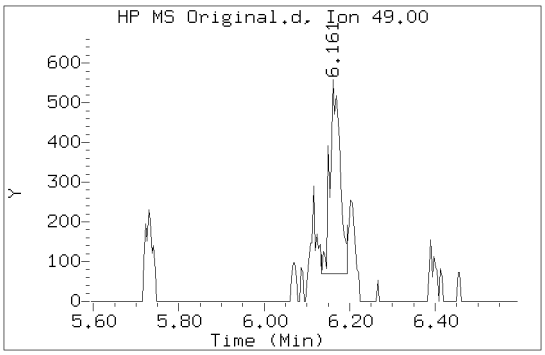
BEFORE
MASS
57
AREA
816
HEIGHT
558
30-Mar-2023
12:33
linh
pham



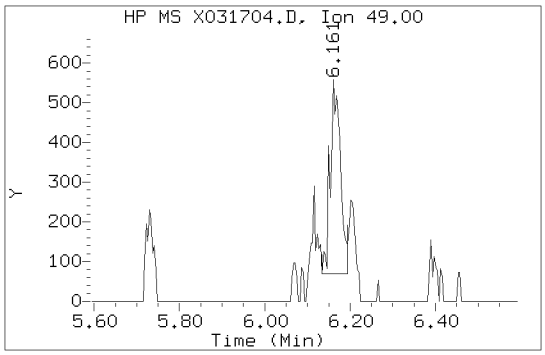
AFTER
MASS
57
AREA
1658
HEIGHT
750
30-Mar-2023
12:41
linh
pham



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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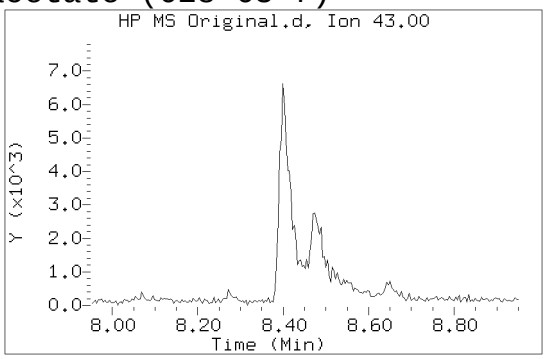
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

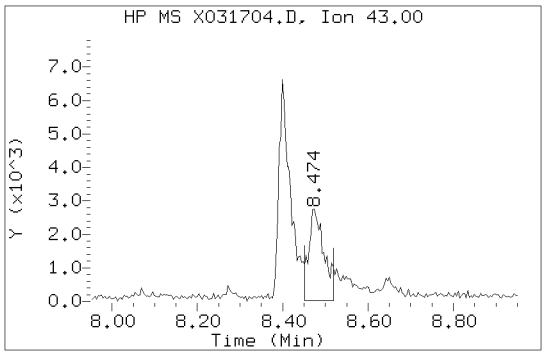
n-Amyl acetate (628-63-7)

Reason Code:

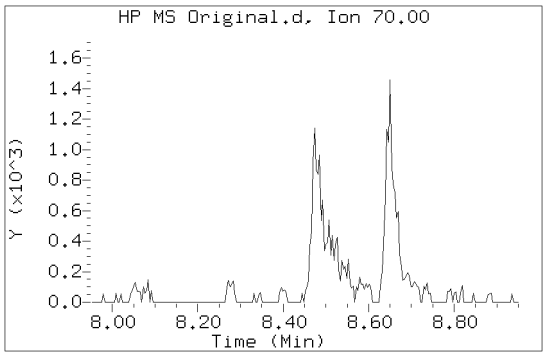
BEFORE
MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



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
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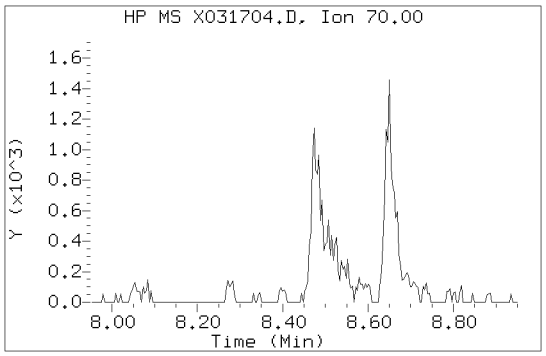
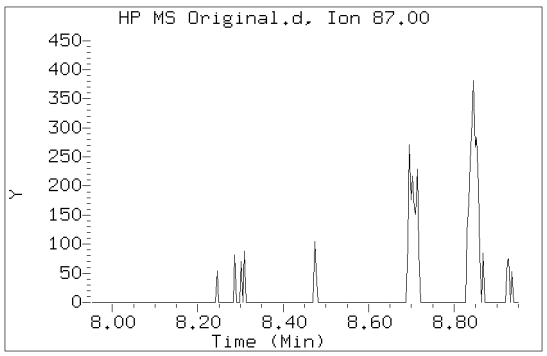
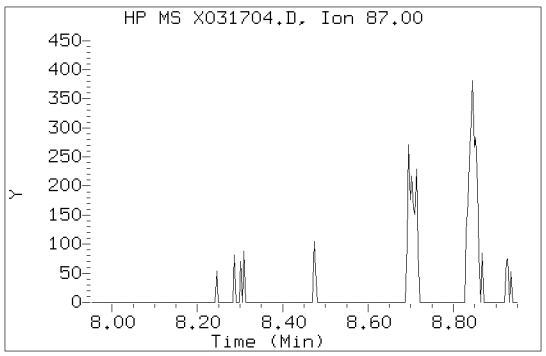
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



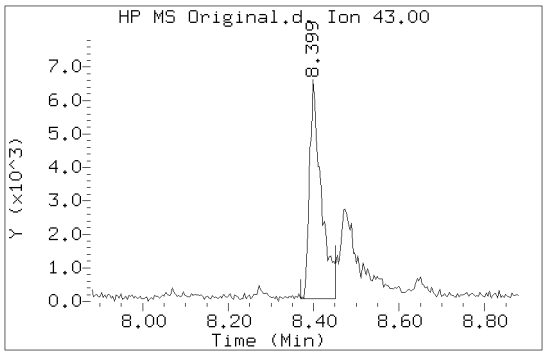
AFTER
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



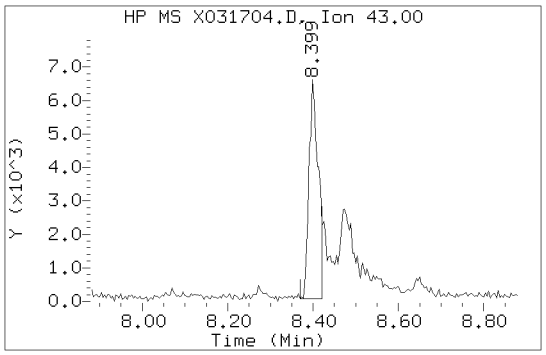
Methyl Amyl Ketone (110-43-0)

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
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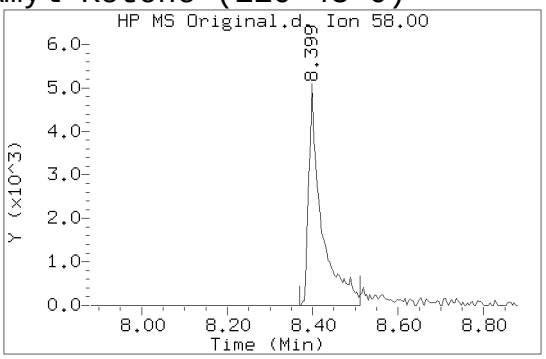
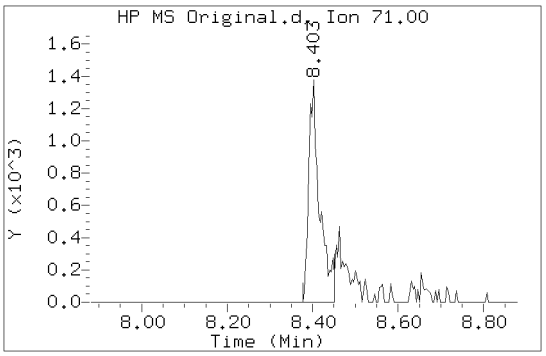
AREA
10632
HEIGHT
5098
30-Mar-2023
12:33
linh
pham



BEFORE

MASS
71
AREA
2444
HEIGHT
1378
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

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AREA
10632
HEIGHT
5098
30-Mar-2023
12:41
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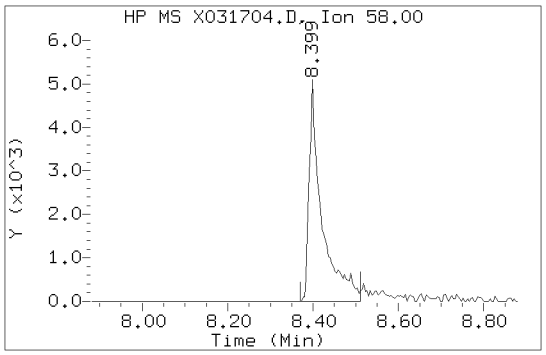
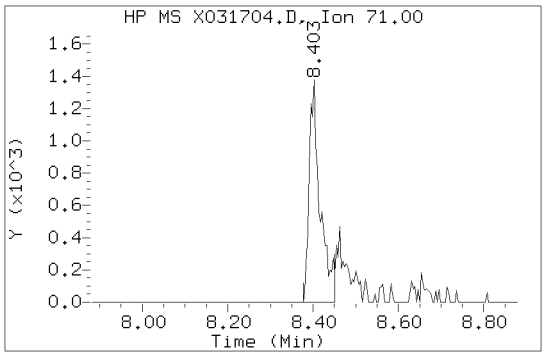
pham



AFTER

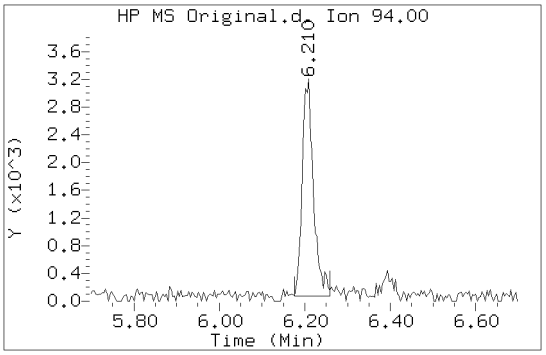
MASS
71
AREA
2444
HEIGHT
1378
30-Mar-2023
12:41
linh
pham



Dimethyl Disulfide (624-92-0)

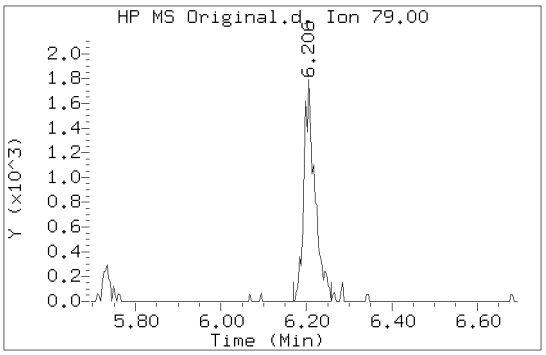
BEFORE

MASS
94
AREA
5811
HEIGHT
3131
30-Mar-2023
12:33
linh
pham



BEFORE

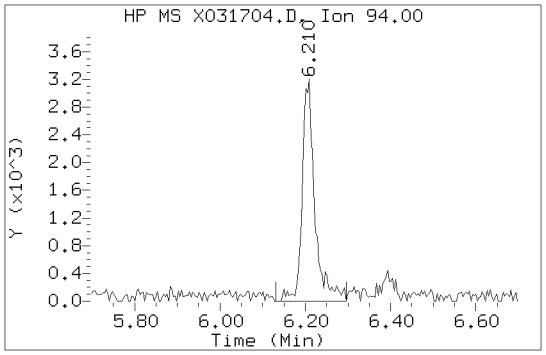
MASS
79
AREA
3238
HEIGHT
1790
30-Mar-2023
12:33
linh
pham



Reason Code:

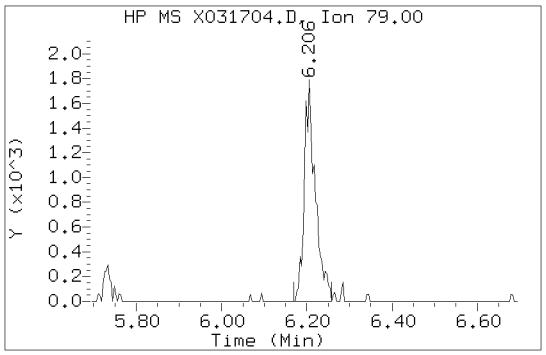
AFTER

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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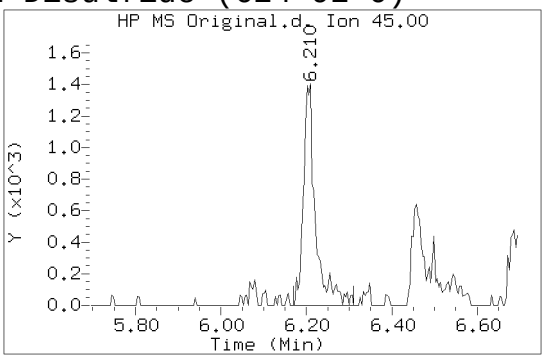
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

Dimethyl Disulfide (624-92-0)

Reason Code:

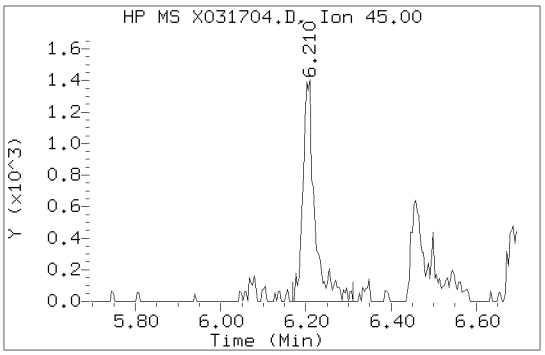
BEFORE

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

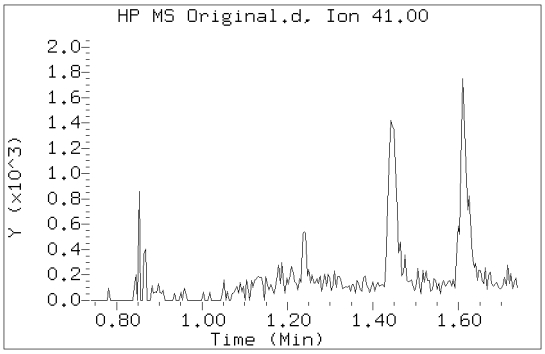


Isobutylene (115-11-7)

Reason Code:

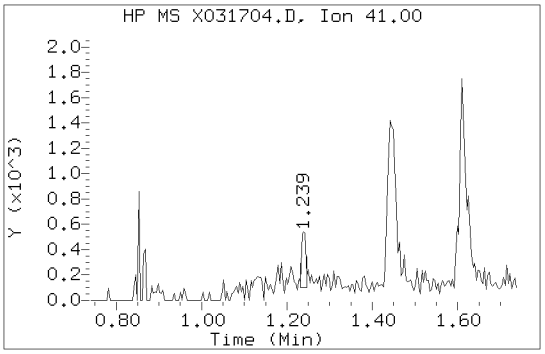
BEFORE

MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



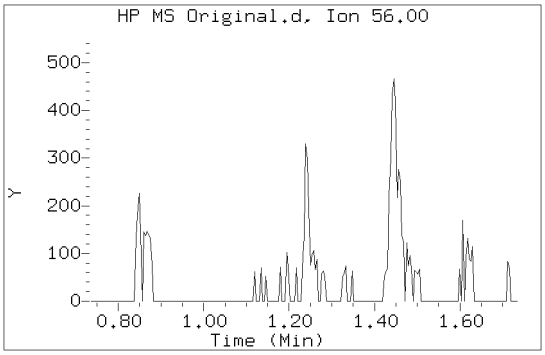
AFTER

MASS
41
AREA
321
HEIGHT
439
30-Mar-2023
12:41
linh
pham



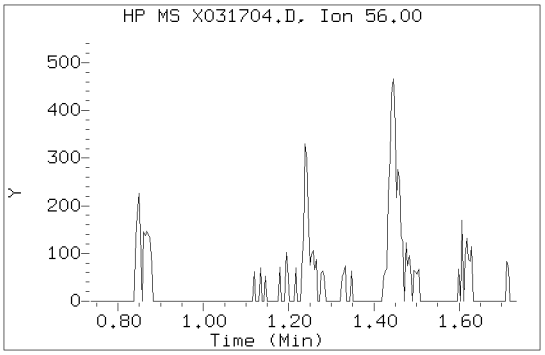
BEFORE

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



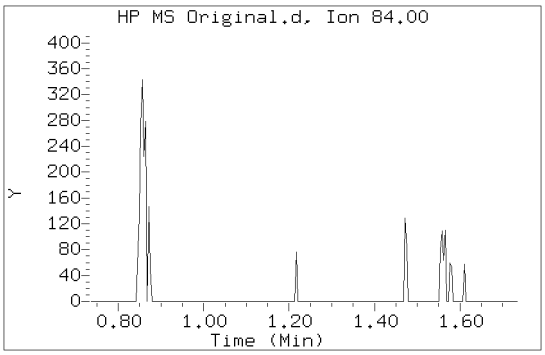
AFTER

MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



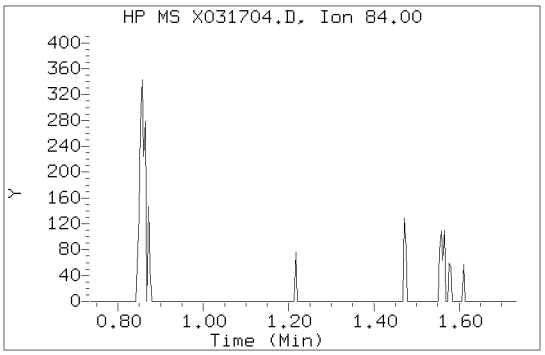
BEFORE

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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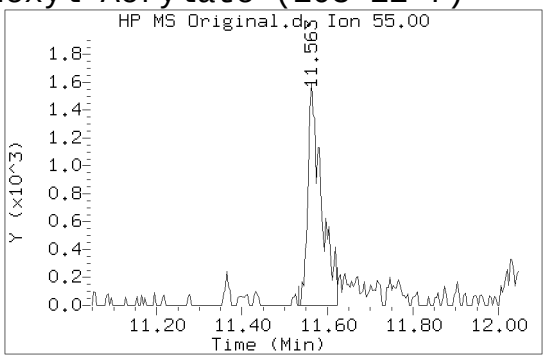
Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

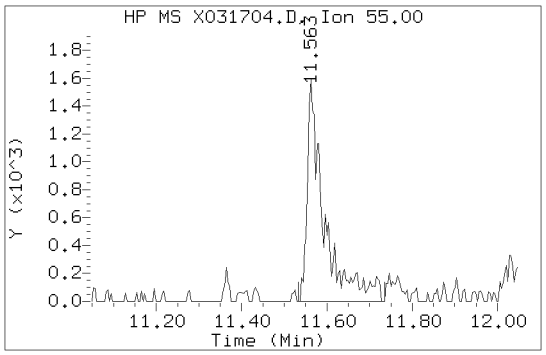
BEFORE

MASS
55
AREA
3508
HEIGHT
1590
30-Mar-2023
12:33
linh
pham



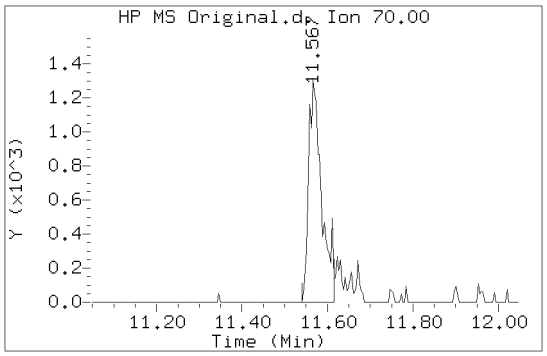
AFTER

MASS
55
AREA
4375
HEIGHT
1590
30-Mar-2023
12:41
linh
pham



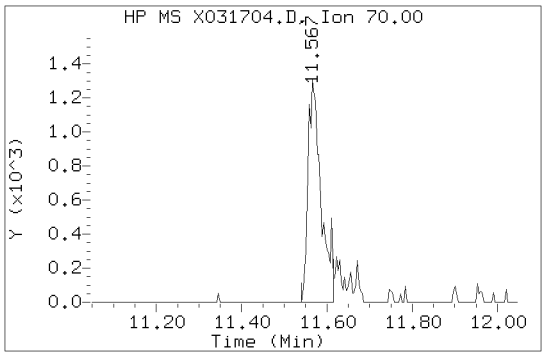
BEFORE

MASS
70
AREA
2764
HEIGHT
1306
30-Mar-2023
12:33
linh
pham



AFTER

MASS
70
AREA
2764
HEIGHT
1306
30-Mar-2023
12:41
linh
pham



Dibromofluoromethane (1868-53-7)

Reason Code:

BEFORE

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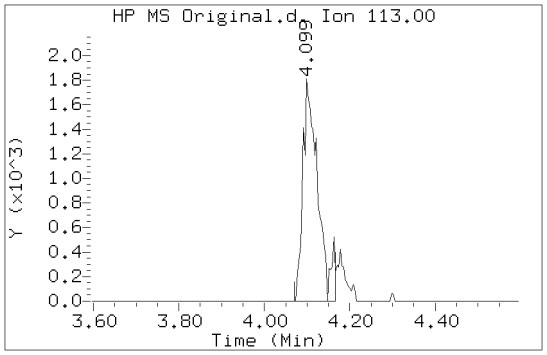

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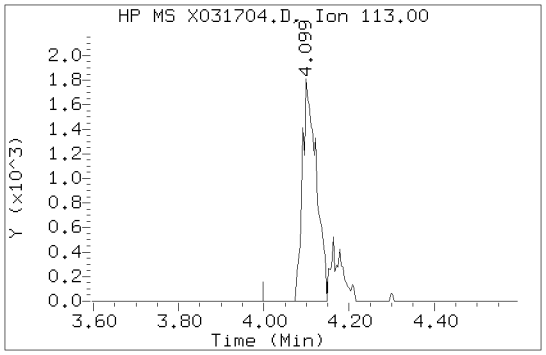

BEFORE

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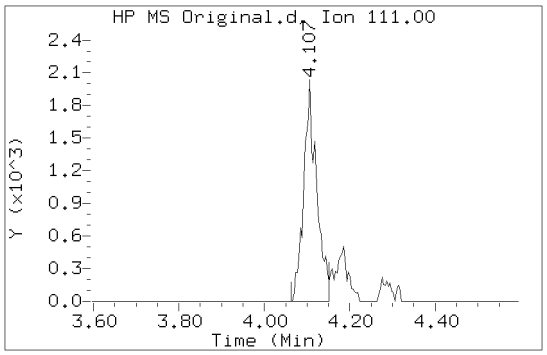

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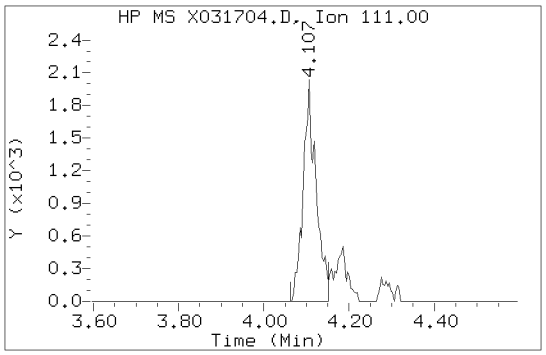

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Inj Date : 17-MAR-2023 12:32
InstruID : voa6.i
LabSampID : VSTD001

1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

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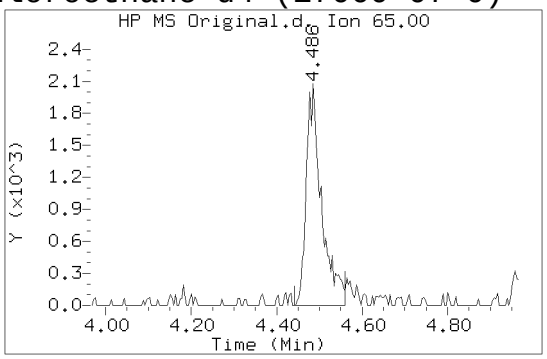

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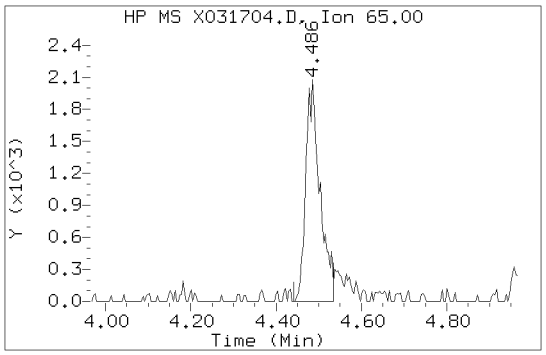

BEFORE

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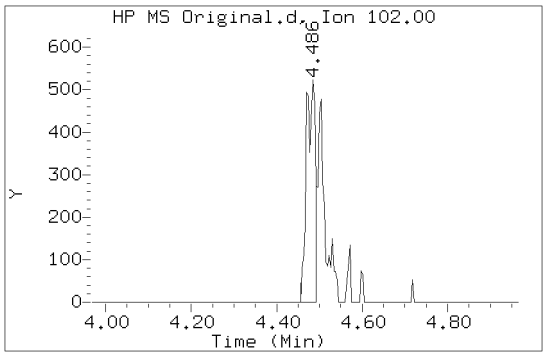

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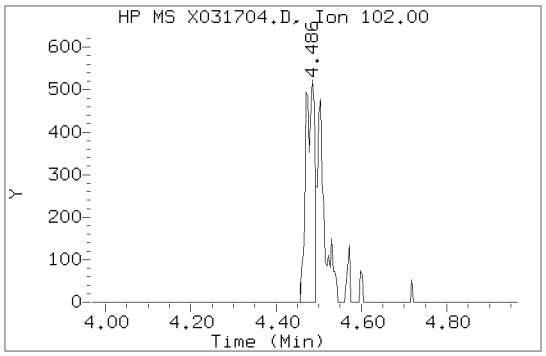

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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
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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   :
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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)

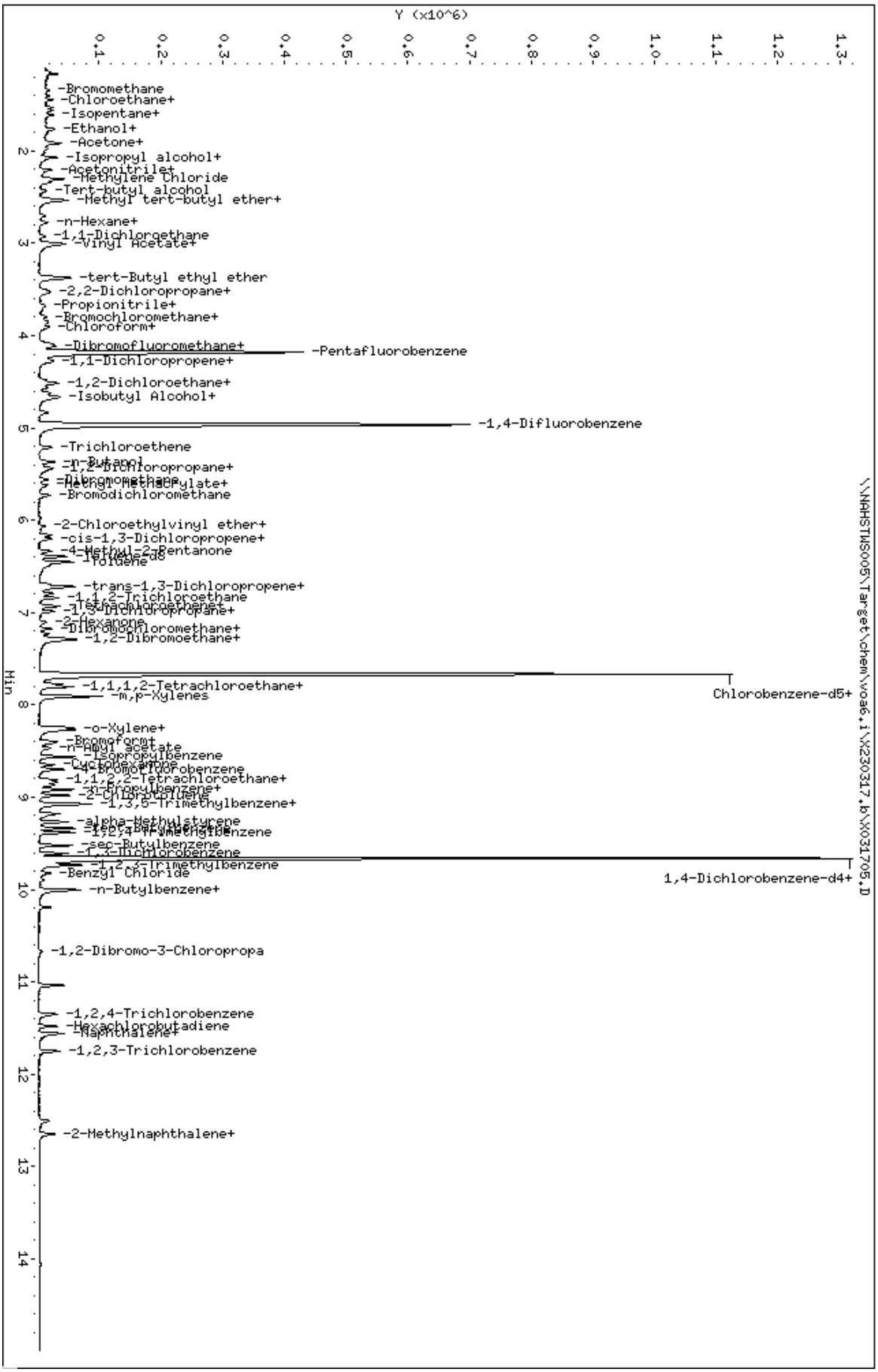
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.384	9.384	(0.971)	28719	2.00000	2.05(aM)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	32067	2.00000	2.18(aM)
82	p-Isopropyltoluene	119	9.651	9.651	(0.999)	27213	2.00000	2.07(aM)
83	1,3-Dichlorobenzene	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;VSTD00201;4;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6,i
Operator: PC
Column diameter: 0.18

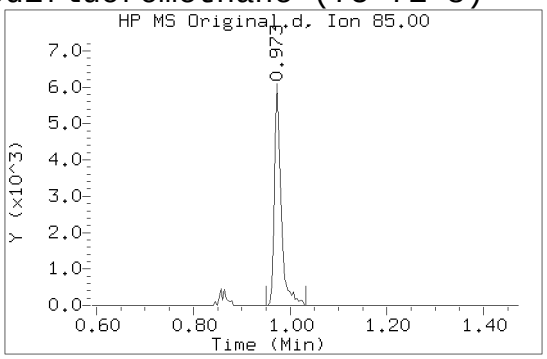
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

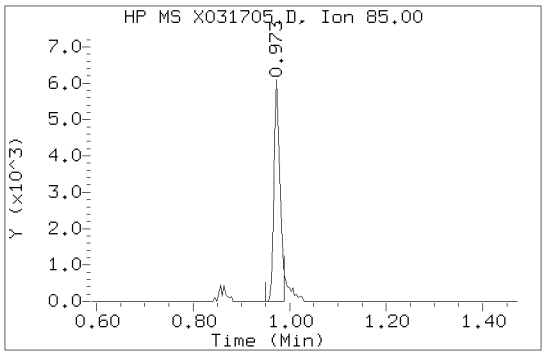
BEFORE

MASS
85
AREA
5866
HEIGHT
6097
30-Mar-2023
12:33
linh
pham



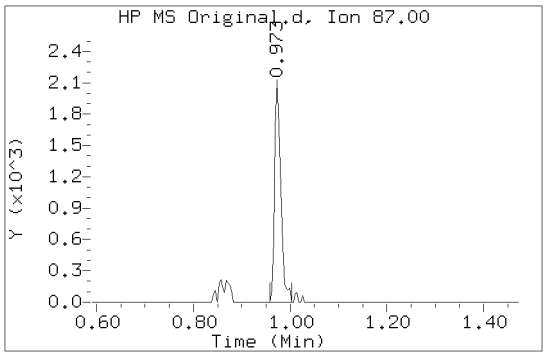
AFTER

MASS
85
AREA
5239
HEIGHT
6097
30-Mar-2023
12:41
linh
pham



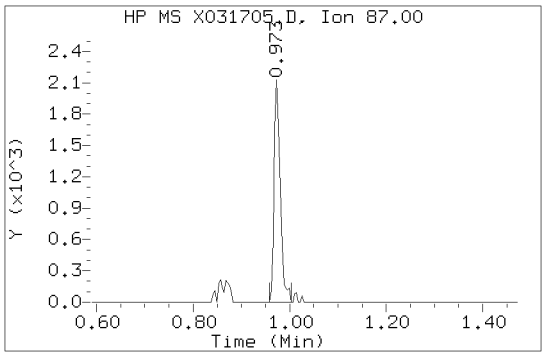
BEFORE

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

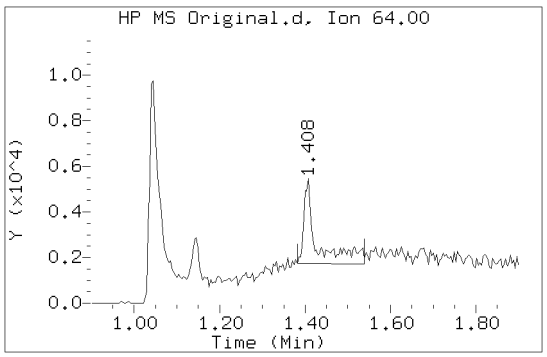


Chloroethane (75-00-3)

Reason Code:

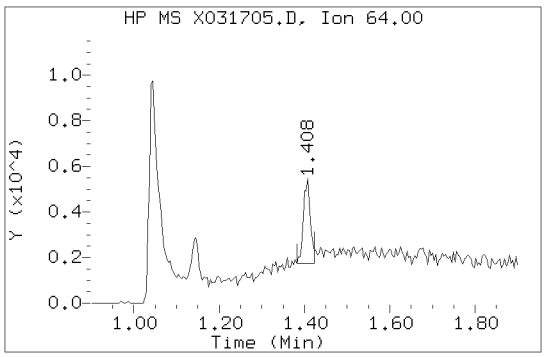
BEFORE

MASS
64
AREA
7910
HEIGHT
3723
30-Mar-2023
12:33
linh
pham



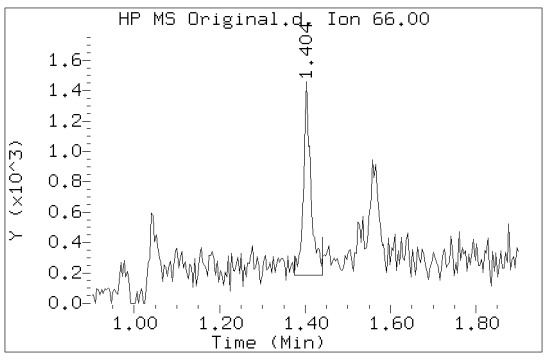
AFTER

MASS
64
AREA
4308
HEIGHT
3722
30-Mar-2023
12:41
linh
pham



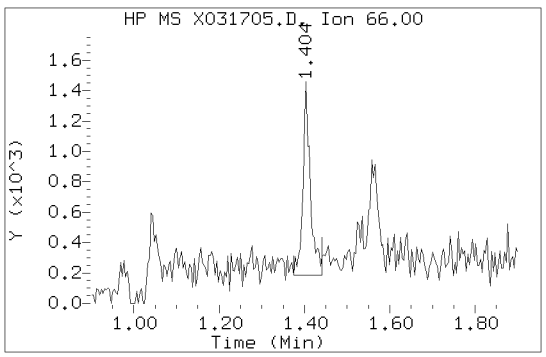
BEFORE

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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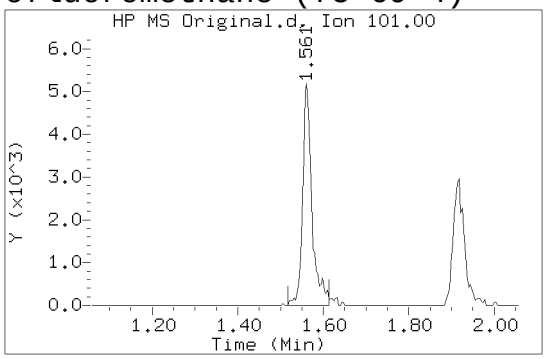
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Trichlorofluoromethane (75-69-4)

Reason Code:

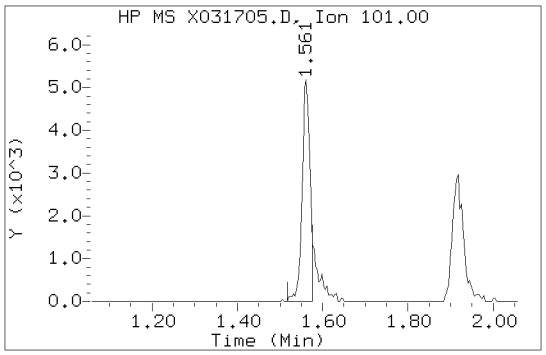
BEFORE

MASS
101
AREA
8073
HEIGHT
5182
30-Mar-2023
12:33
linh
pham



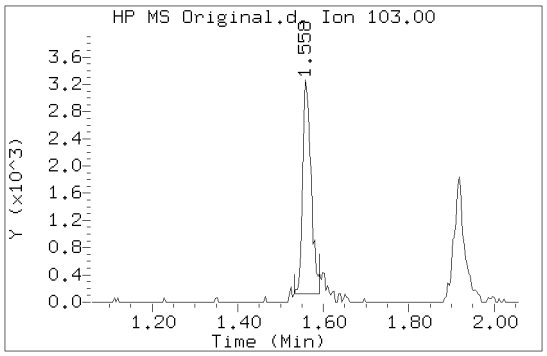
AFTER

MASS
101
AREA
6844
HEIGHT
5182
30-Mar-2023
12:41
linh
pham



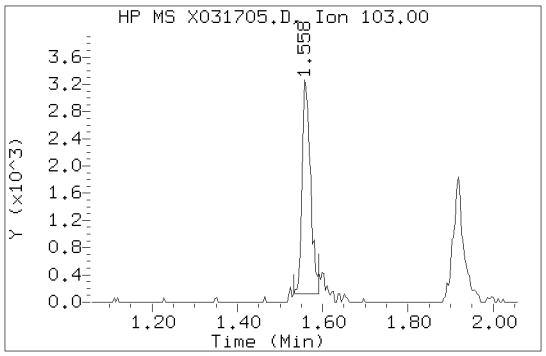
BEFORE

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

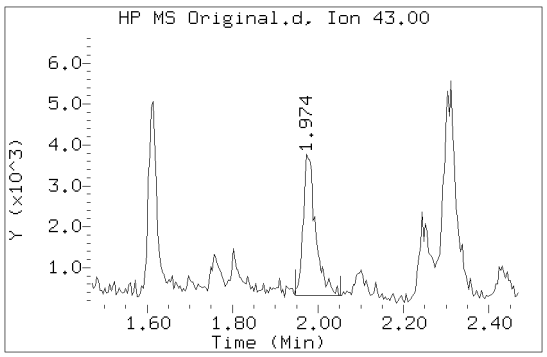


Acetone (67-64-1)

Reason Code:

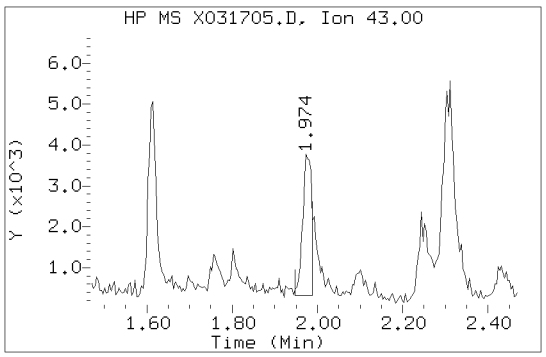
BEFORE

MASS
43
AREA
7079
HEIGHT
3457
30-Mar-2023
12:33
linh
pham



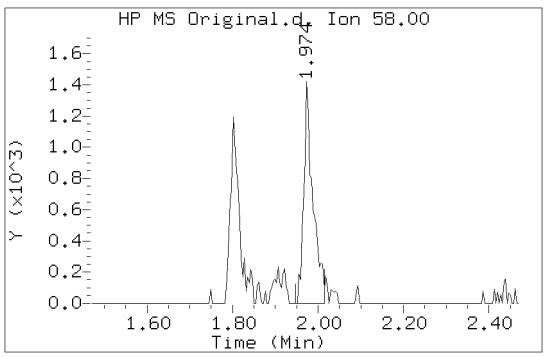
AFTER

MASS
43
AREA
5122
HEIGHT
3457
30-Mar-2023
12:41
linh
pham



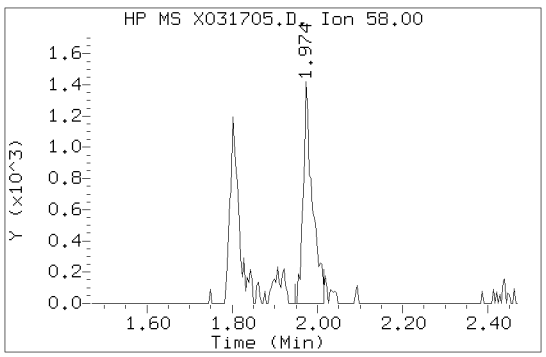
BEFORE

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



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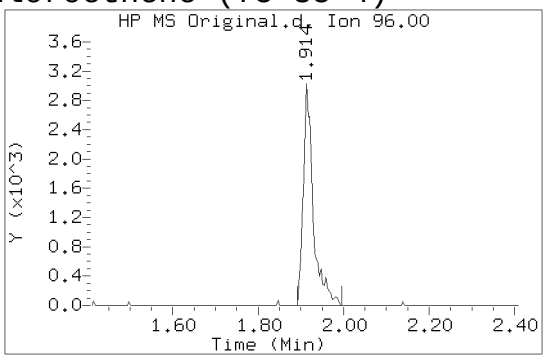
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

1,1-Dichloroethene (75-35-4)

Reason Code:

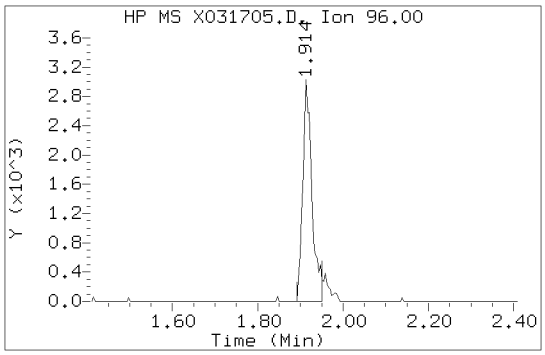
BEFORE

MASS
96
AREA
5031
HEIGHT
3028
30-Mar-2023
12:33
linh
pham



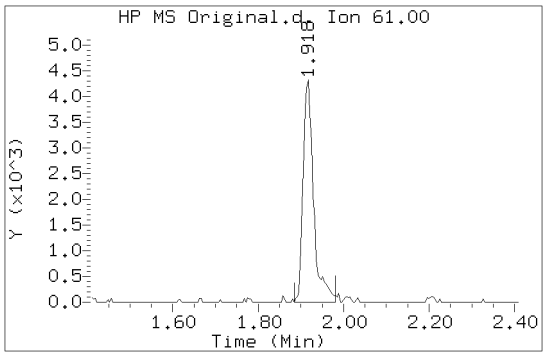
AFTER

MASS
96
AREA
4645
HEIGHT
3028
30-Mar-2023
12:41
linh
pham



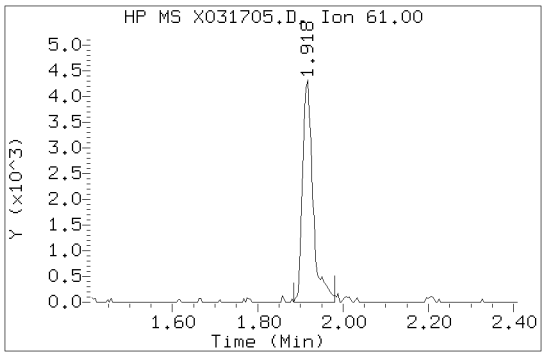
BEFORE

MASS
61
AREA
7573
HEIGHT
4320
30-Mar-2023
12:33
linh
pham



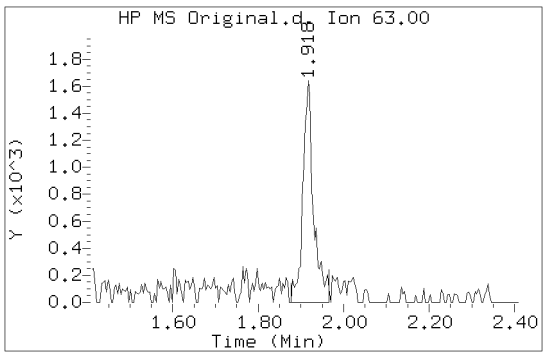
AFTER

MASS
61
AREA
7573
HEIGHT
4320
30-Mar-2023
12:41
linh
pham



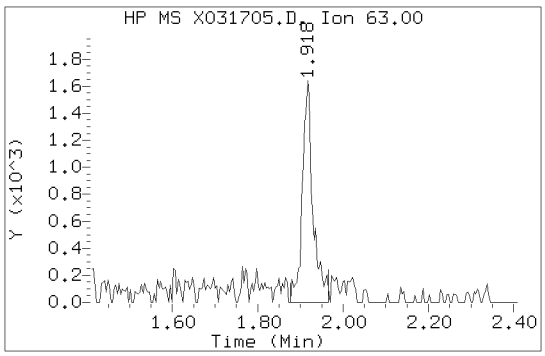
BEFORE

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

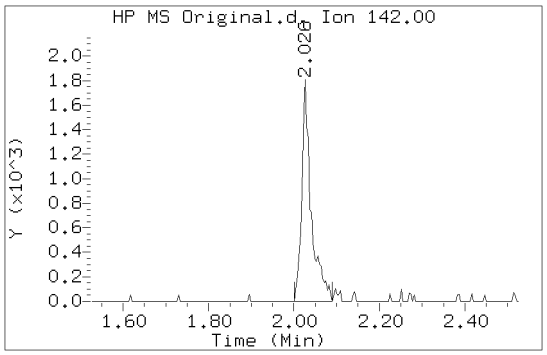


Iodomethane (74-88-4)

Reason Code:

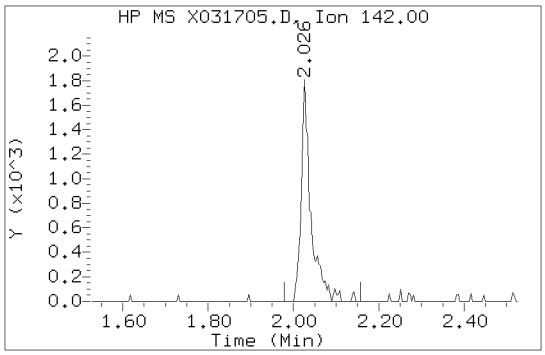
BEFORE

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



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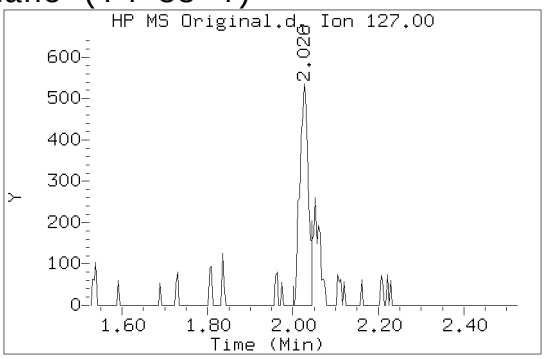
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Iodomethane (74-88-4)

Reason Code:

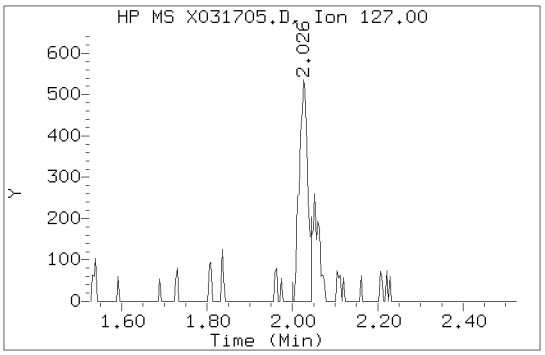
BEFORE

MASS
127
AREA
774
HEIGHT
536
30-Mar-2023
12:33
linh
pham



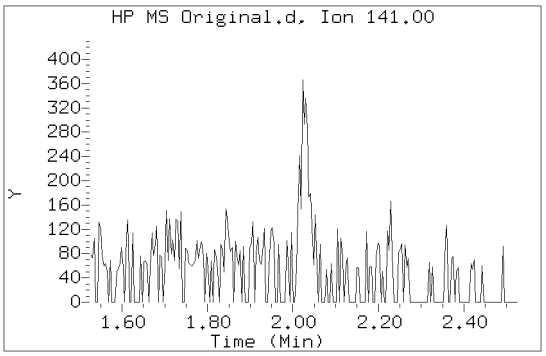
AFTER

MASS
127
AREA
774
HEIGHT
536
30-Mar-2023
12:41
linh
pham



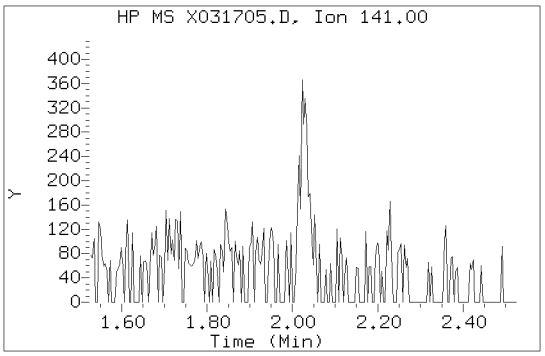
BEFORE

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

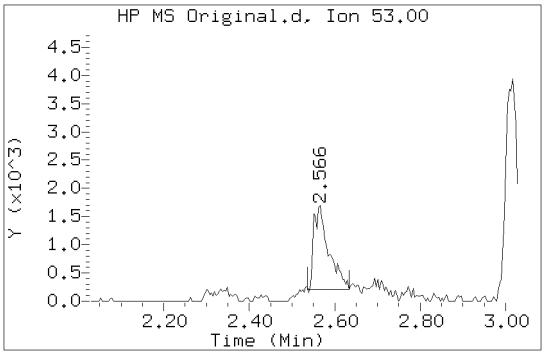


Acrylonitrile (107-13-1)

Reason Code:

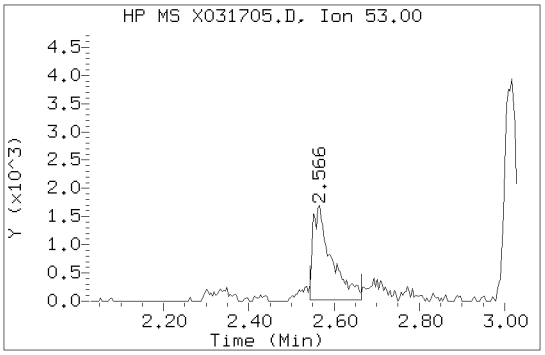
BEFORE

MASS
53
AREA
3622
HEIGHT
1489
30-Mar-2023
12:33
linh
pham



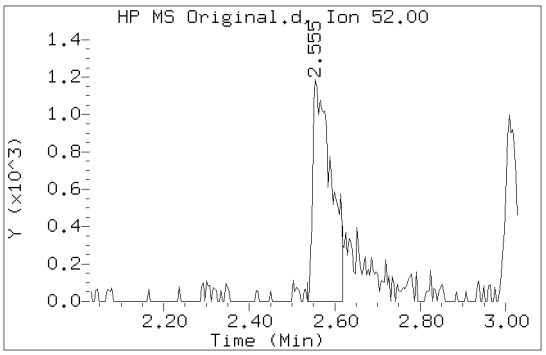
AFTER

MASS
53
AREA
5007
HEIGHT
1665
30-Mar-2023
12:41
linh
pham



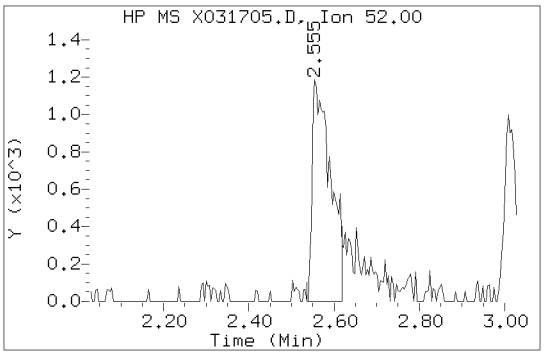
BEFORE

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



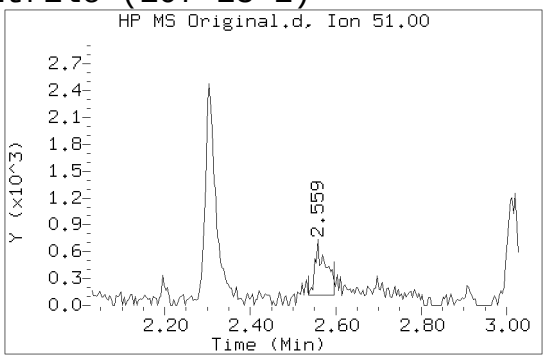
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Acrylonitrile (107-13-1)

Reason Code:

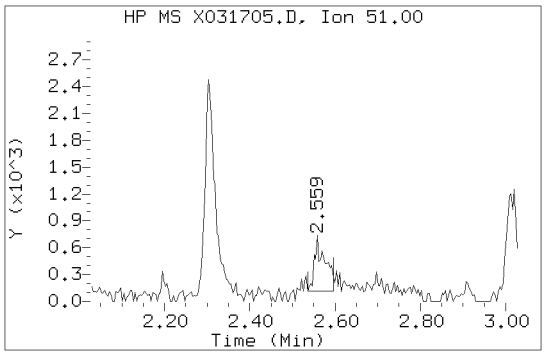
BEFORE

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

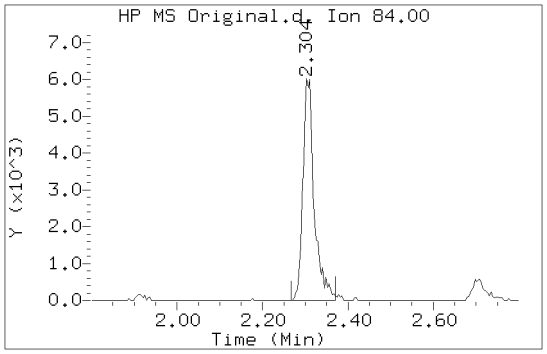


Methylene Chloride (75-09-2)

Reason Code:

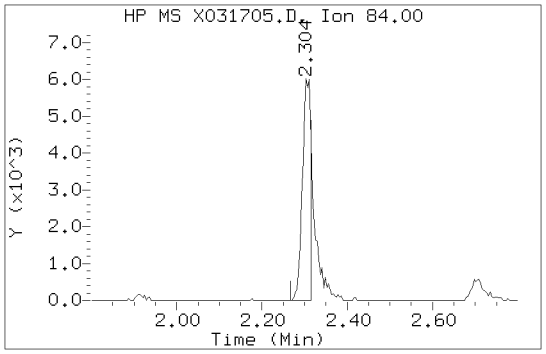
BEFORE

MASS
84
AREA
11285
HEIGHT
6022
30-Mar-2023
12:33
linh
pham



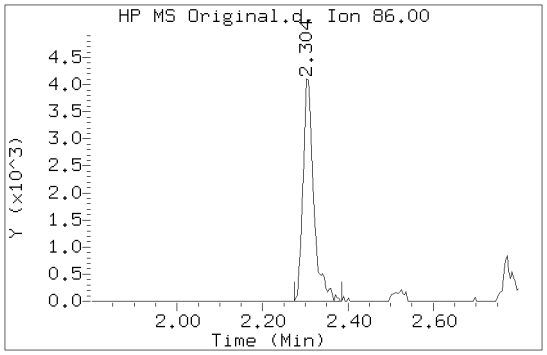
AFTER

MASS
84
AREA
8273
HEIGHT
6022
30-Mar-2023
12:41
linh
pham



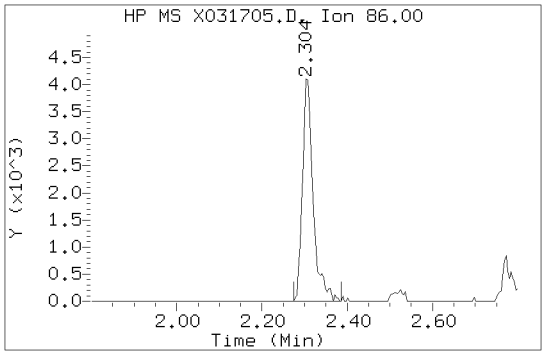
BEFORE

MASS
86
AREA
7326
HEIGHT
4107
30-Mar-2023
12:33
linh
pham



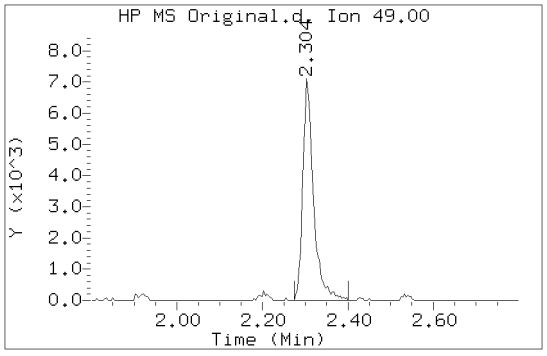
AFTER

MASS
86
AREA
7326
HEIGHT
4107
30-Mar-2023
12:41
linh
pham



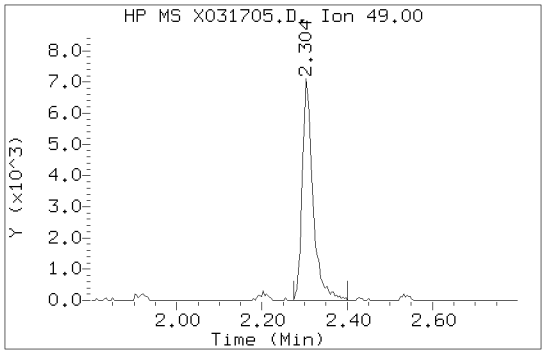
BEFORE

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



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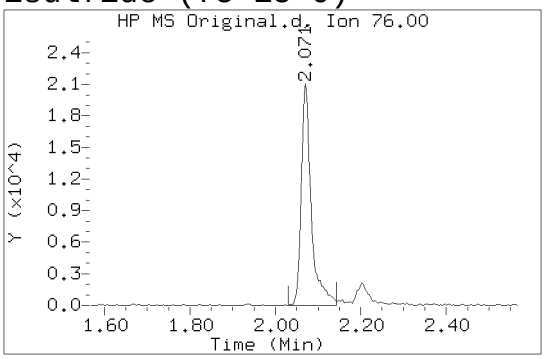
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

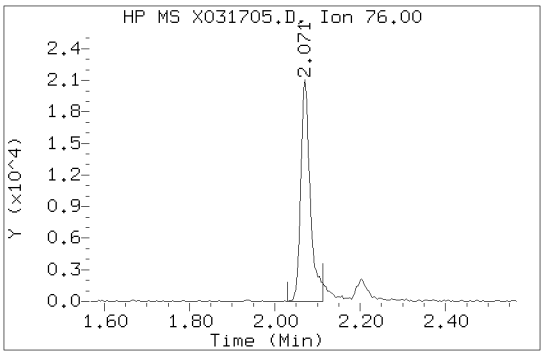
Carbon Disulfide (75-15-0)

BEFORE
MASS
76
AREA
35108
HEIGHT
21056
30-Mar-2023
12:33
linh
pham

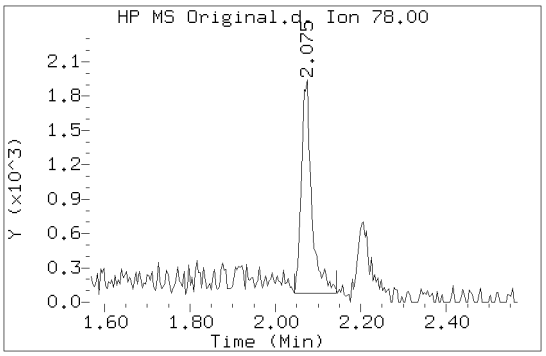


Reason Code:

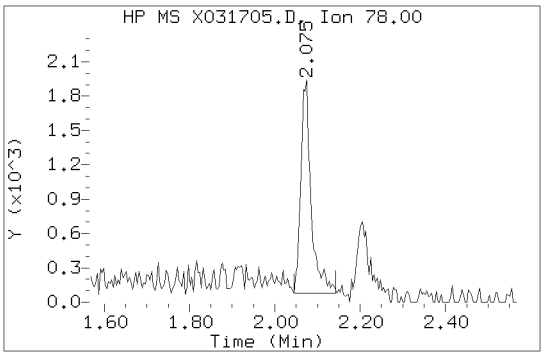
AFTER
MASS
76
AREA
33469
HEIGHT
21056
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
78
AREA
3221
HEIGHT
1865
30-Mar-2023
12:33
linh
pham

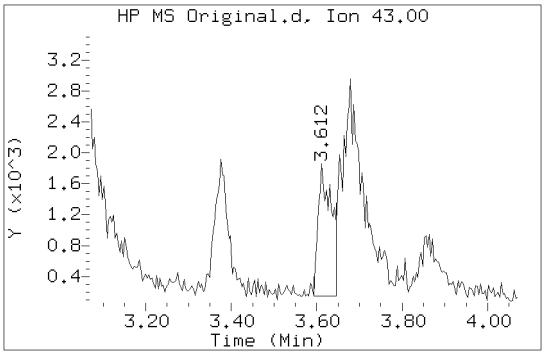


AFTER
MASS
78
AREA
3221
HEIGHT
1865
30-Mar-2023
12:41
linh
pham



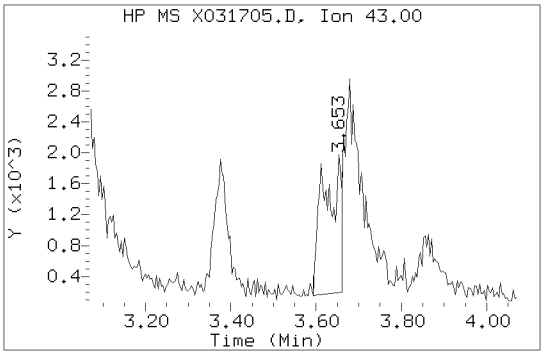
2-Butanone (78-93-3)

BEFORE
MASS
43
AREA
3635
HEIGHT
1711
30-Mar-2023
12:33
linh
pham

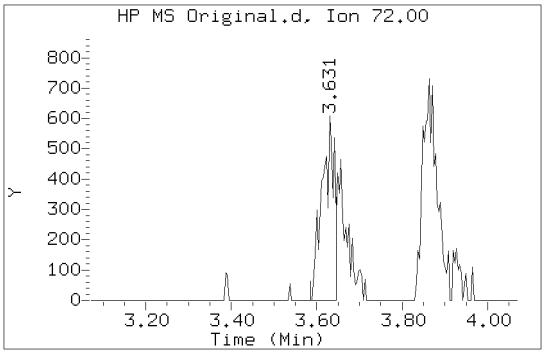


Reason Code:

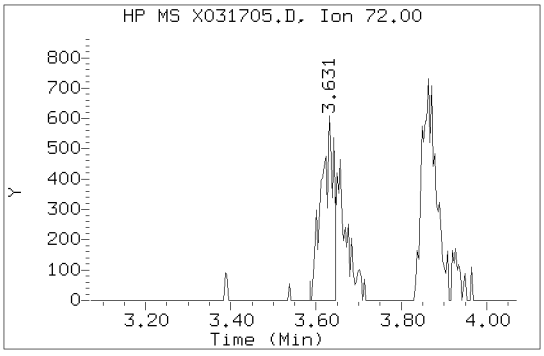
AFTER
MASS
43
AREA
4883
HEIGHT
1780
30-Mar-2023
12:41
linh
pham



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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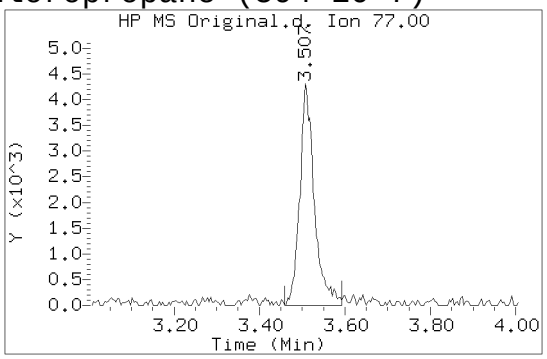
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

2,2-Dichloropropane (594-20-7)

Reason Code:

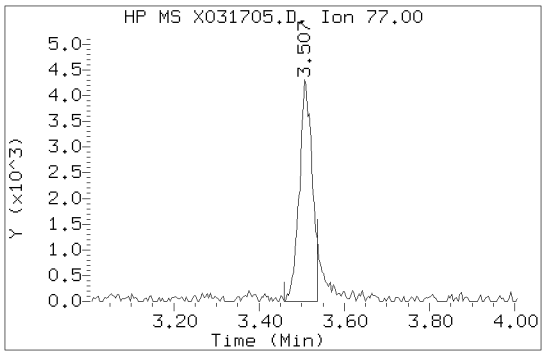
BEFORE

MASS
77
AREA
10396
HEIGHT
4310
30-Mar-2023
12:33
linh
pham



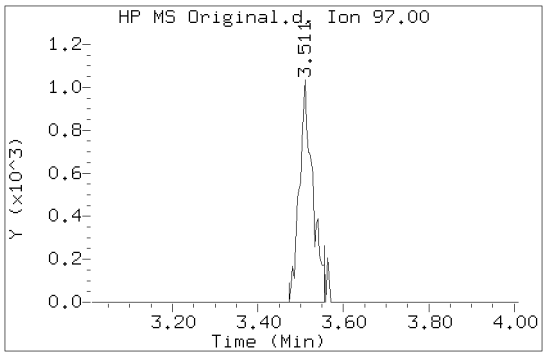
AFTER

MASS
77
AREA
9195
HEIGHT
4310
30-Mar-2023
12:41
linh
pham



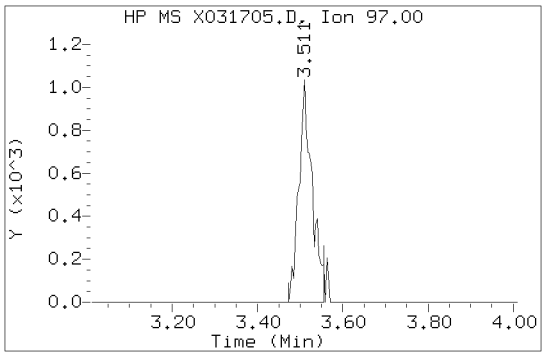
BEFORE

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

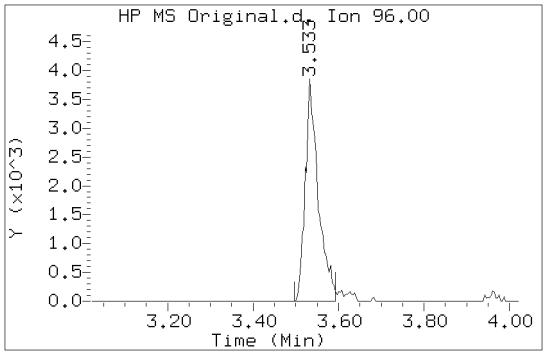


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

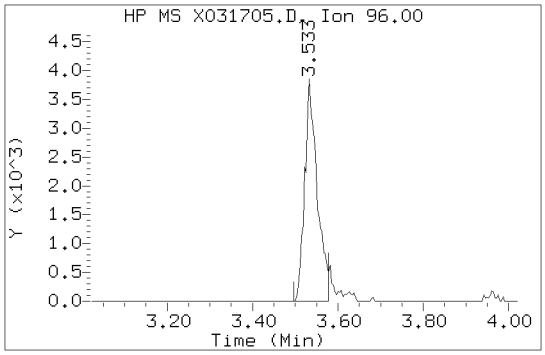
BEFORE

MASS
96
AREA
8249
HEIGHT
3854
30-Mar-2023
12:33
linh
pham



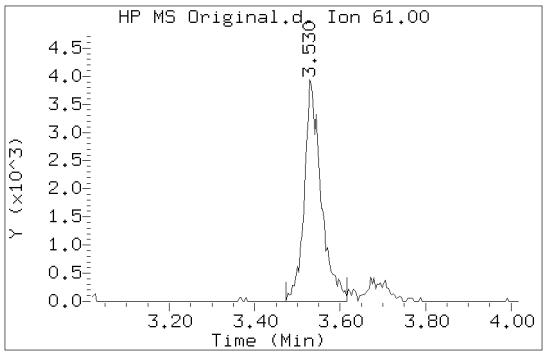
AFTER

MASS
96
AREA
7938
HEIGHT
3854
30-Mar-2023
12:41
linh
pham



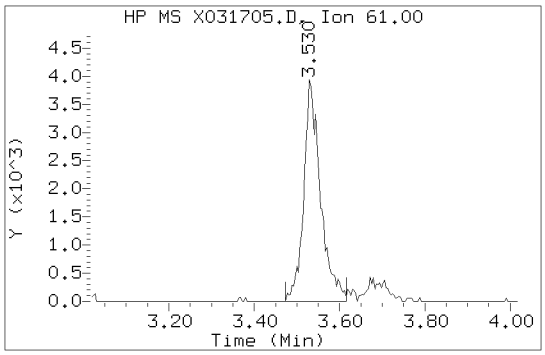
BEFORE

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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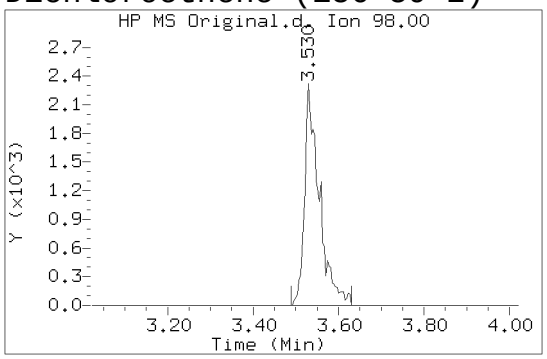
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

cis-1,2-Dichloroethene (156-59-2)

BEFORE

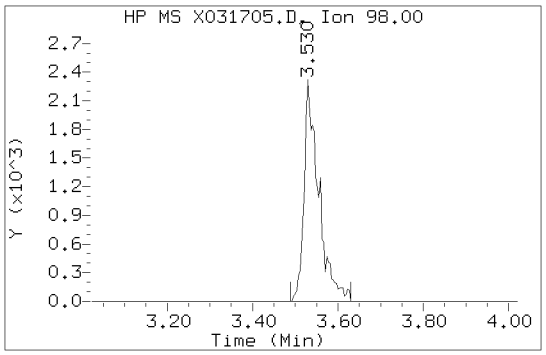
MASS
98
AREA
5559
HEIGHT
2321
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

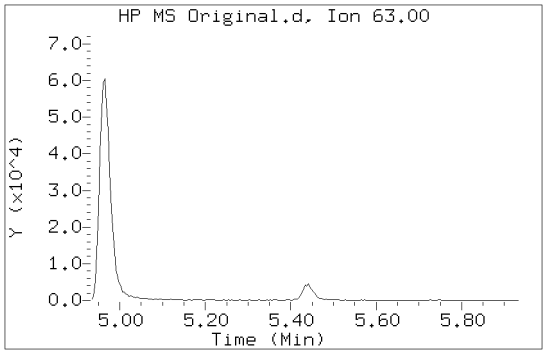
MASS
98
AREA
5559
HEIGHT
2321
30-Mar-2023
12:41
linh
pham



1,2-Dichloropropane (78-87-5)

BEFORE

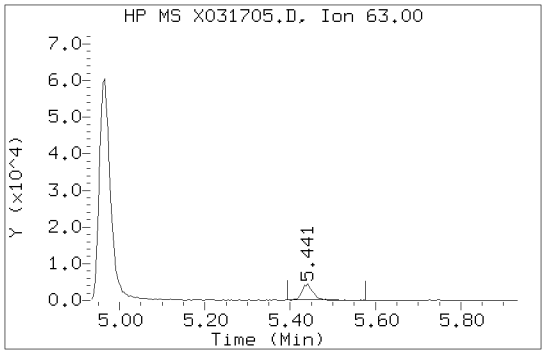
MASS
63
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



Reason Code:

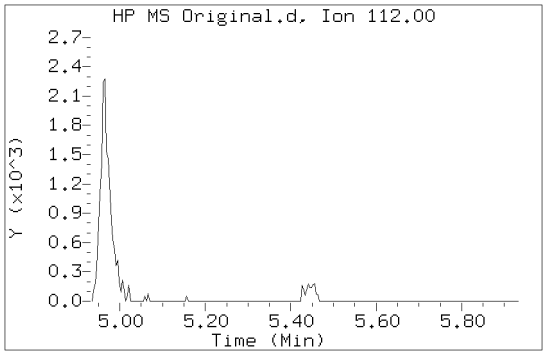
AFTER

MASS
63
AREA
7975
HEIGHT
4520
30-Mar-2023
12:41
linh
pham



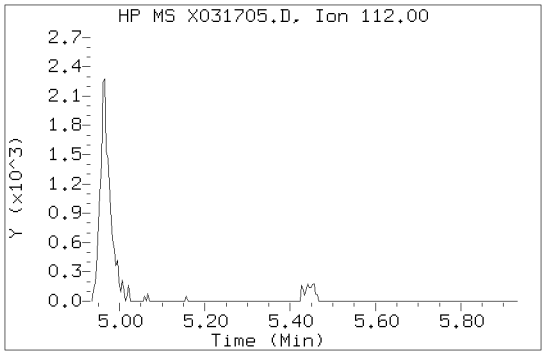
BEFORE

MASS
112
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

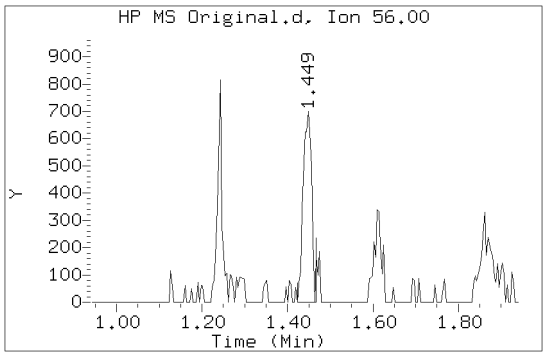
MASS
112
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



Acrolein (107-02-8)

BEFORE

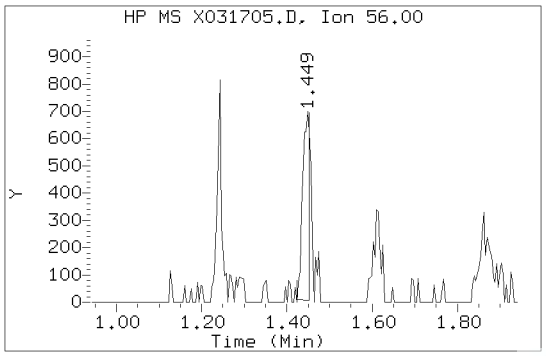
MASS
56
AREA
1011
HEIGHT
699
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
56
AREA
794
HEIGHT
691
30-Mar-2023
12:41
linh
pham



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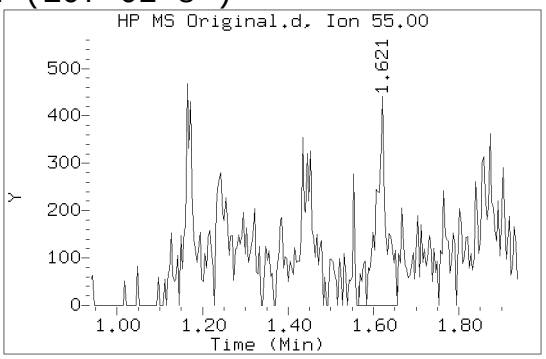
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

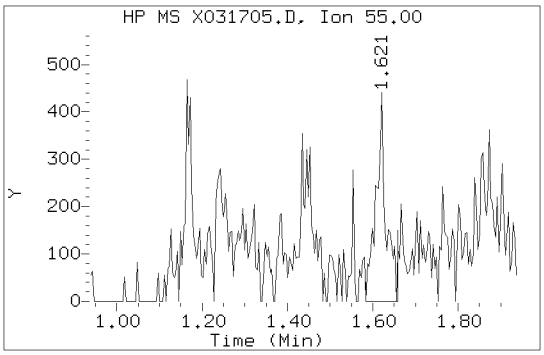
Acrolein (107-02-8)

Reason Code:

BEFORE
MASS
55
AREA
771
HEIGHT
441
30-Mar-2023
12:33
linh
pham



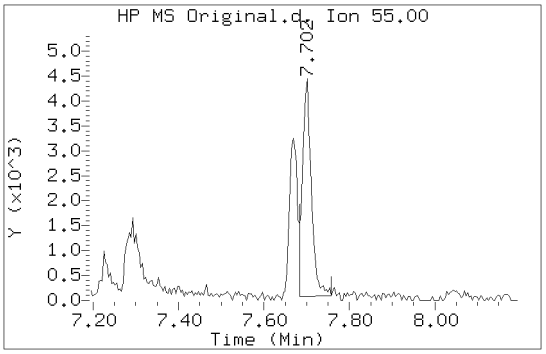
AFTER
MASS
55
AREA
728
HEIGHT
441
30-Mar-2023
12:41
linh
pham



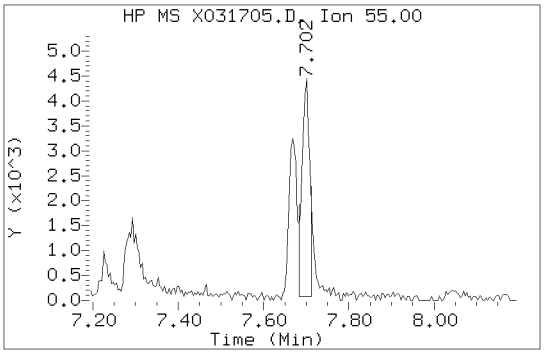
1-Chlorohexane (544-10-5)

Reason Code:

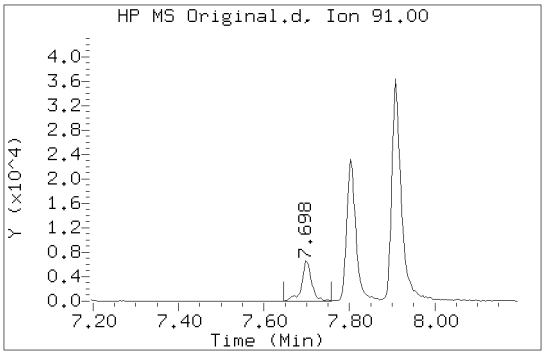
BEFORE
MASS
55
AREA
6571
HEIGHT
4369
30-Mar-2023
12:33
linh
pham



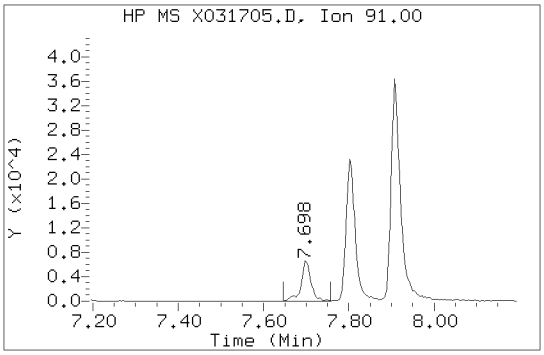
AFTER
MASS
55
AREA
5763
HEIGHT
4369
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
91
AREA
10956
HEIGHT
6612
30-Mar-2023
12:33
linh
pham



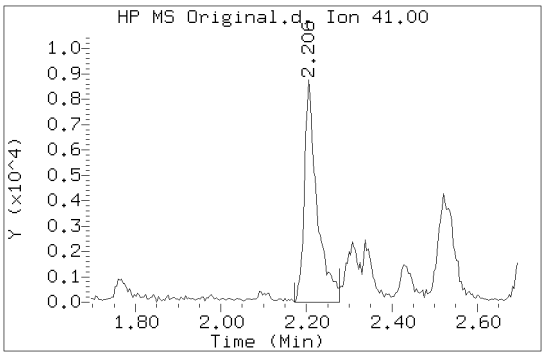
AFTER
MASS
91
AREA
10956
HEIGHT
6612
30-Mar-2023
12:41
linh
pham



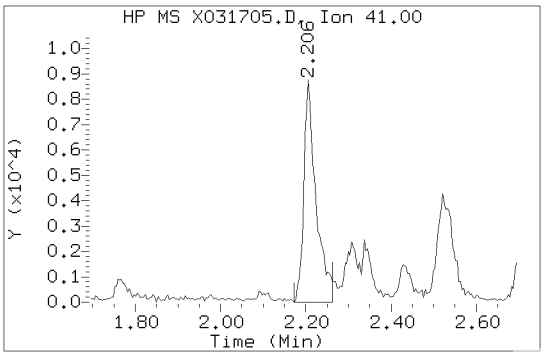
Allyl Chloride (107-05-1)

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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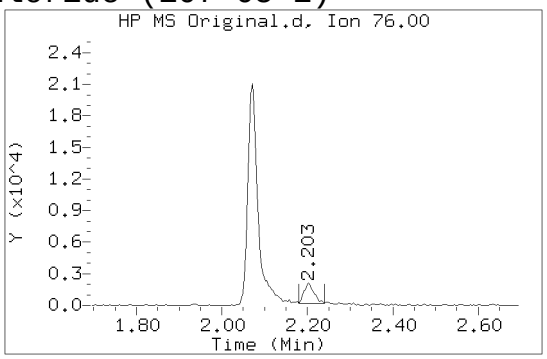
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Allyl Chloride (107-05-1)

BEFORE

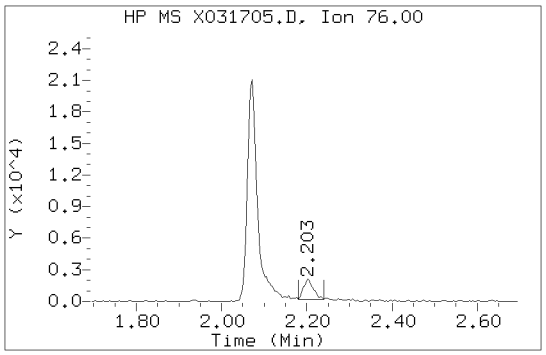
MASS
76
AREA
3083
HEIGHT
1935
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

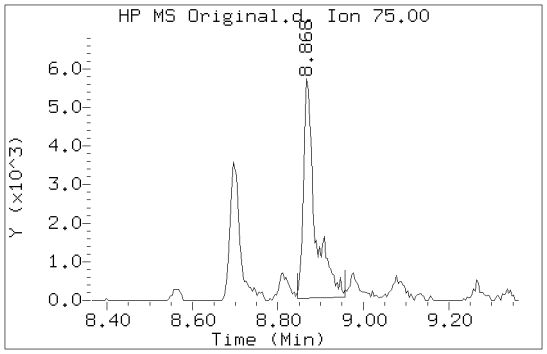
MASS
76
AREA
3083
HEIGHT
1935
30-Mar-2023
12:41
linh
pham



1,2,3-Trichloropropane (96-18-4)

BEFORE

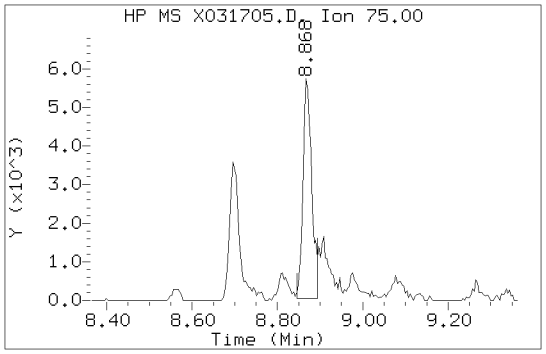
MASS
75
AREA
11042
HEIGHT
5692
30-Mar-2023
12:33
linh
pham



Reason Code:

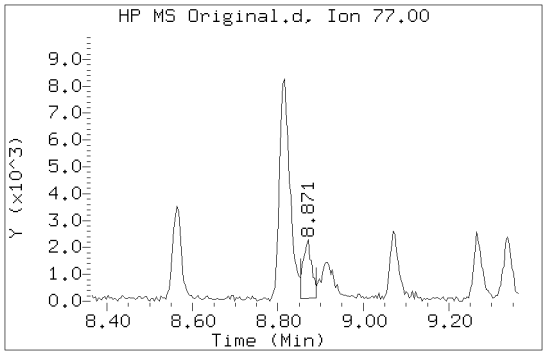
AFTER

MASS
75
AREA
8328
HEIGHT
5692
30-Mar-2023
12:41
linh
pham



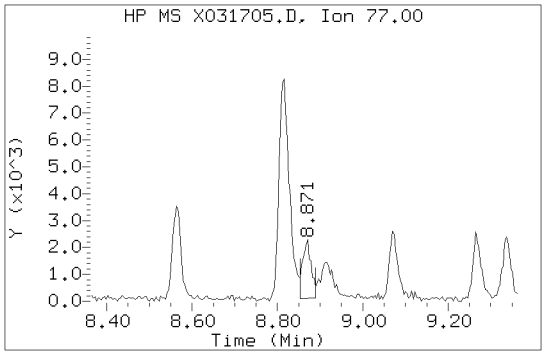
BEFORE

MASS
77
AREA
3185
HEIGHT
2179
30-Mar-2023
12:33
linh
pham



AFTER

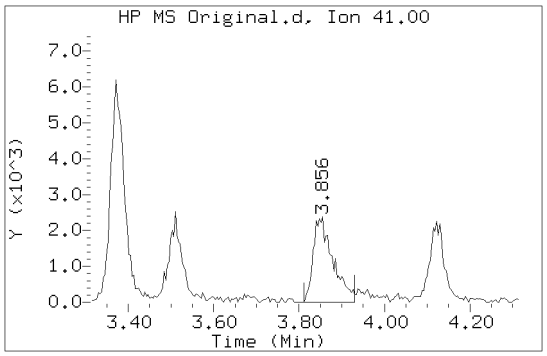
MASS
77
AREA
3185
HEIGHT
2179
30-Mar-2023
12:41
linh
pham



Methacrylonitrile (126-98-7)

BEFORE

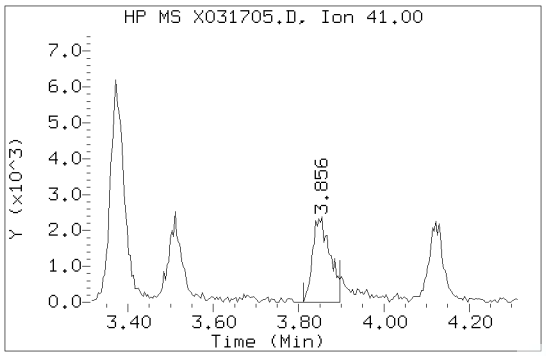
MASS
41
AREA
7606
HEIGHT
2390
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
41
AREA
6754
HEIGHT
2390
30-Mar-2023
12:41
linh
pham



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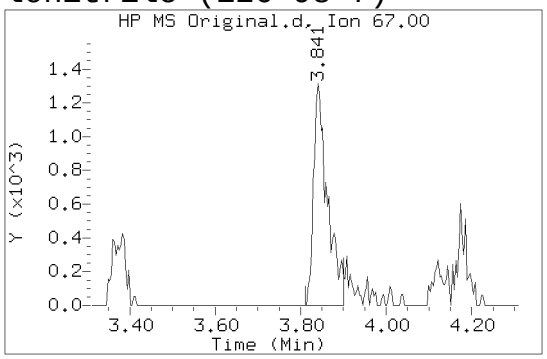
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

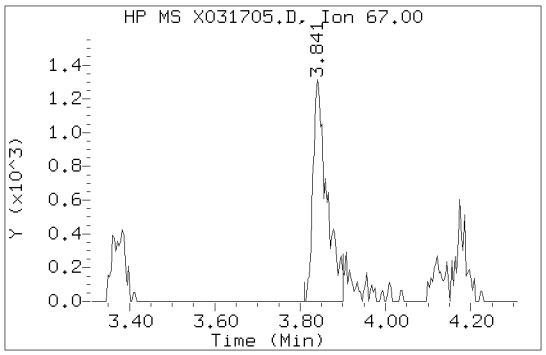
Methacrylonitrile (126-98-7)

Reason Code:

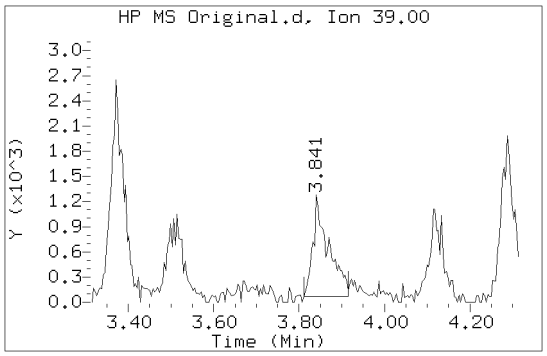
BEFORE
MASS
67
AREA
2973
HEIGHT
1314
30-Mar-2023
12:33
linh
pham



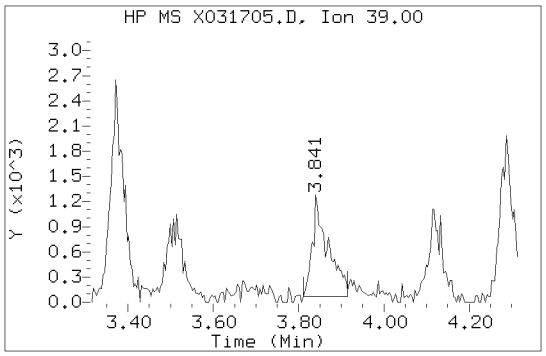
AFTER
MASS
67
AREA
2973
HEIGHT
1314
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
39
AREA
3073
HEIGHT
1215
30-Mar-2023
12:33
linh
pham



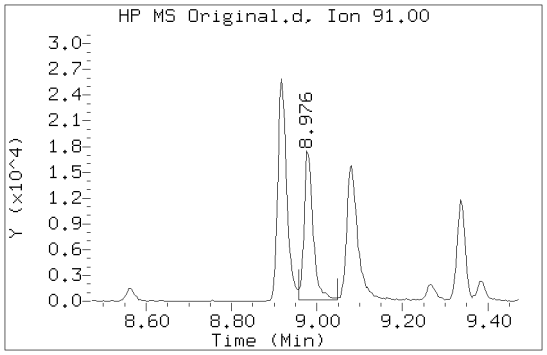
AFTER
MASS
39
AREA
3073
HEIGHT
1215
30-Mar-2023
12:41
linh
pham



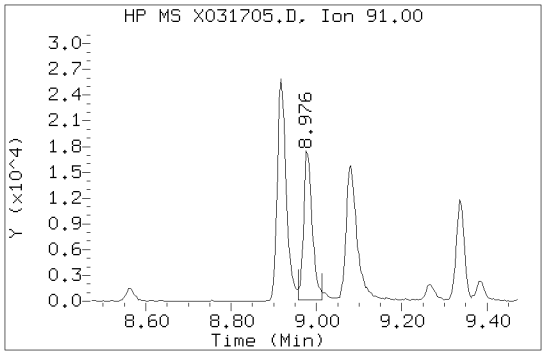
2-Chlorotoluene (95-49-8)

Reason Code:

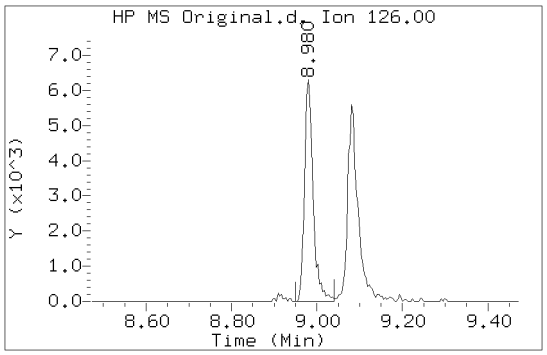
BEFORE
MASS
91
AREA
26022
HEIGHT
17363
30-Mar-2023
12:33
linh
pham



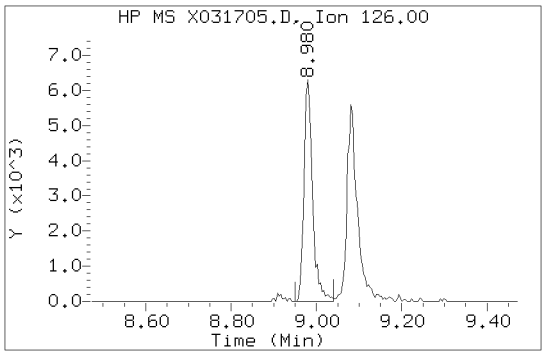
AFTER
MASS
91
AREA
25156
HEIGHT
17363
30-Mar-2023
12:41
linh
pham



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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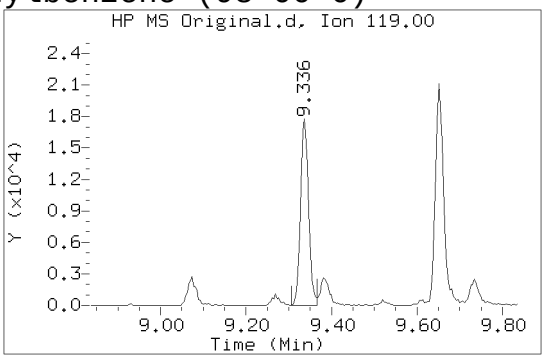
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

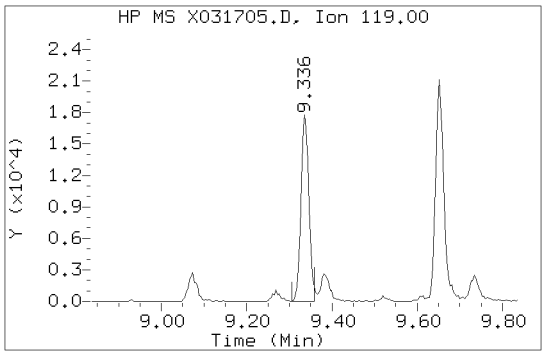
tert-Butylbenzene (98-06-6)

Reason Code:

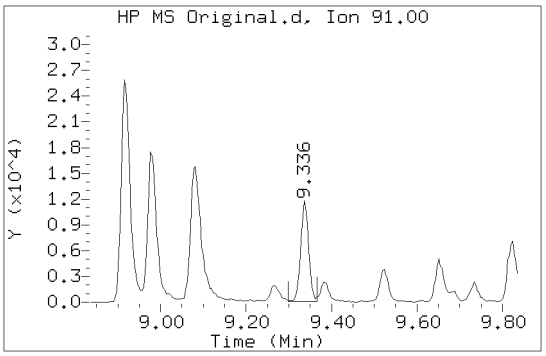
BEFORE
MASS
119
AREA
24014
HEIGHT
17752
30-Mar-2023
12:33
linh
pham



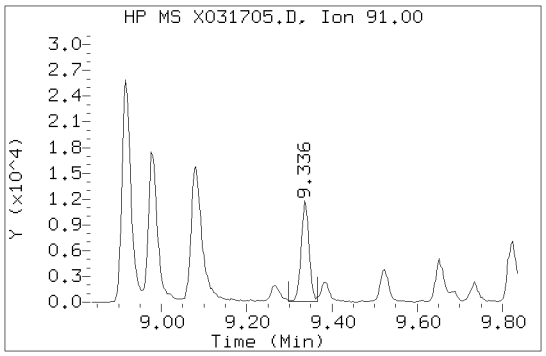
AFTER
MASS
119
AREA
23670
HEIGHT
17752
30-Mar-2023
12:41
linh
pham



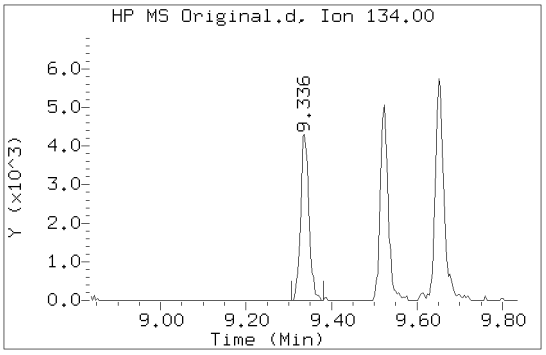
BEFORE
MASS
91
AREA
15633
HEIGHT
11777
30-Mar-2023
12:33
linh
pham



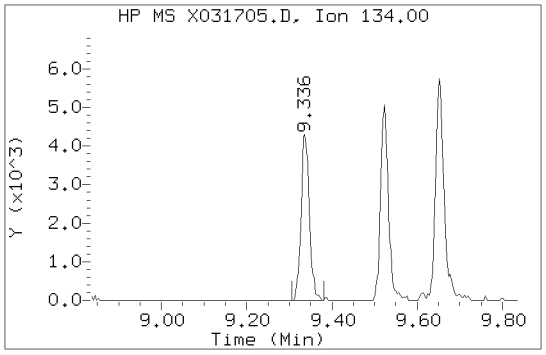
AFTER
MASS
91
AREA
15633
HEIGHT
11777
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
134
AREA
6015
HEIGHT
4311
30-Mar-2023
12:33
linh
pham



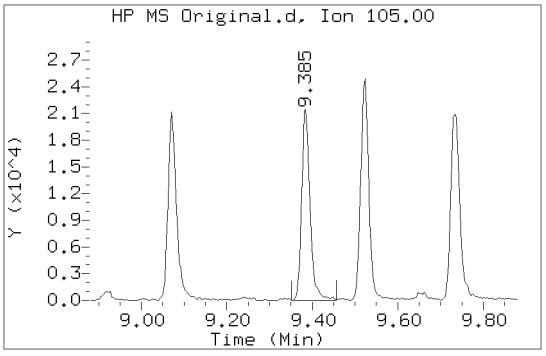
AFTER
MASS
134
AREA
6015
HEIGHT
4311
30-Mar-2023
12:41
linh
pham



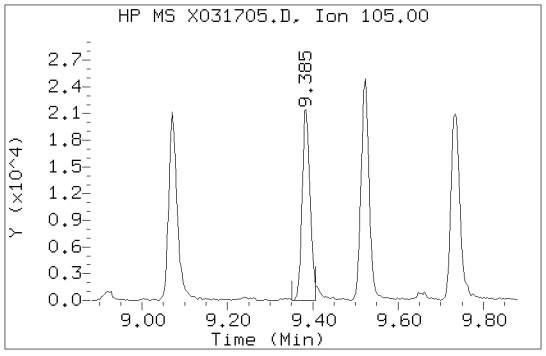
1,2,4-Trimethylbenzene (95-63-6)

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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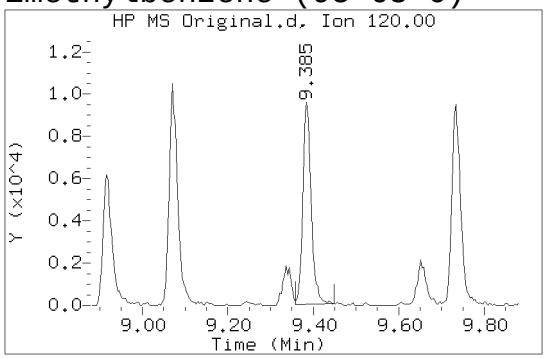
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

1,2,4-Trimethylbenzene (95-63-6)

Reason Code:

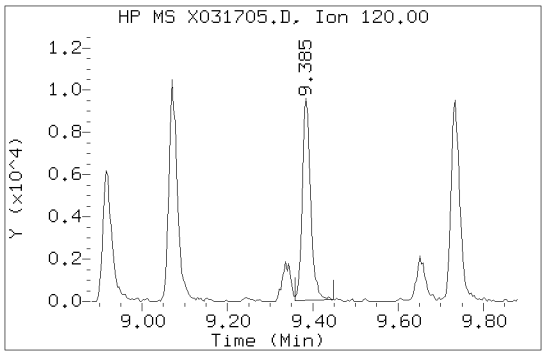
BEFORE

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

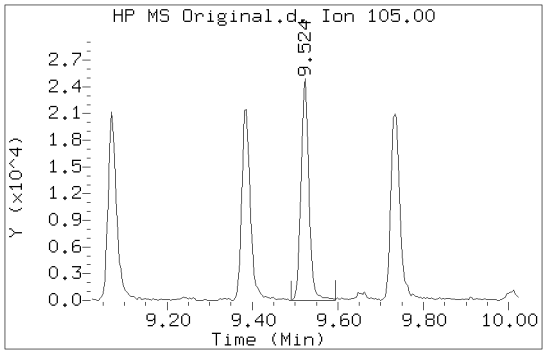


sec-Butylbenzene (135-98-8)

Reason Code:

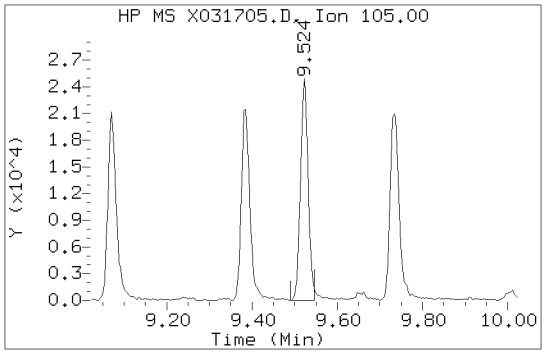
BEFORE

MASS
105
AREA
33044
HEIGHT
24912
30-Mar-2023
12:33
linh
pham



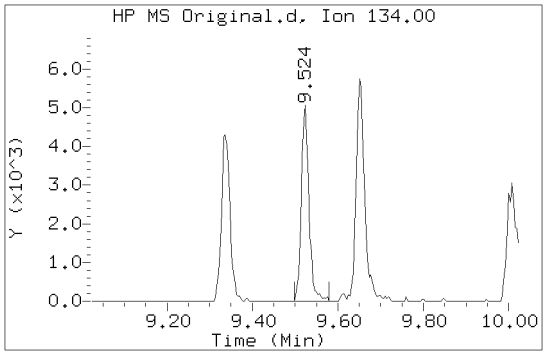
AFTER

MASS
105
AREA
32067
HEIGHT
24912
30-Mar-2023
12:41
linh
pham



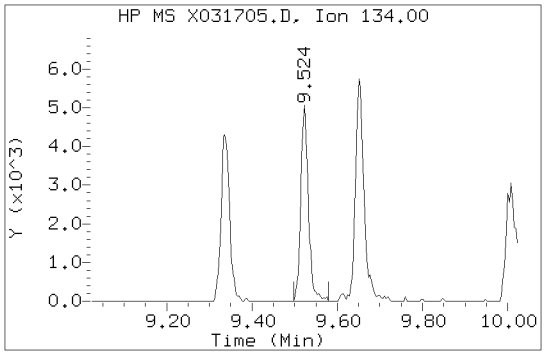
BEFORE

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

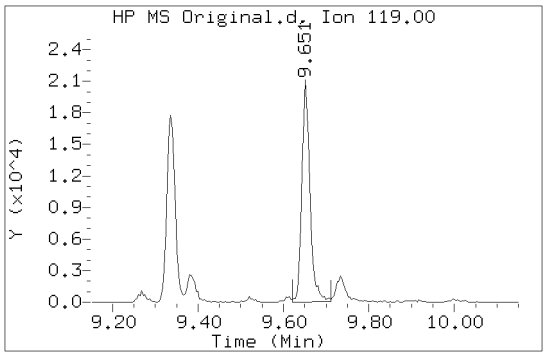


p-Isopropyltoluene (99-87-6)

Reason Code:

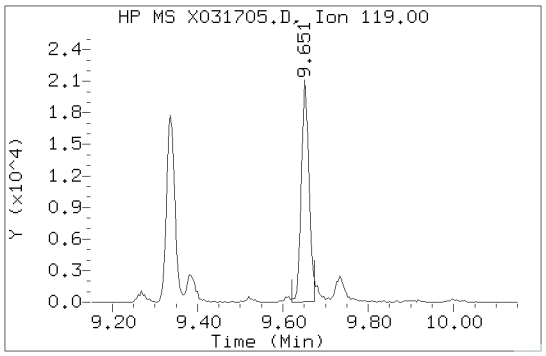
BEFORE

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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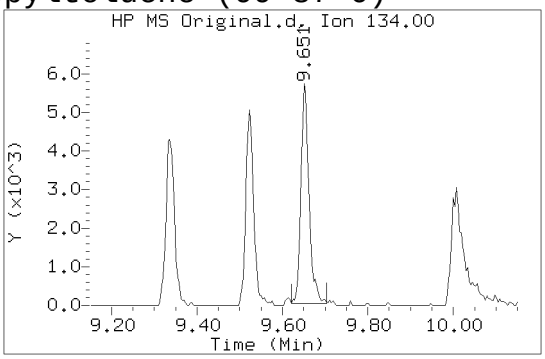
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

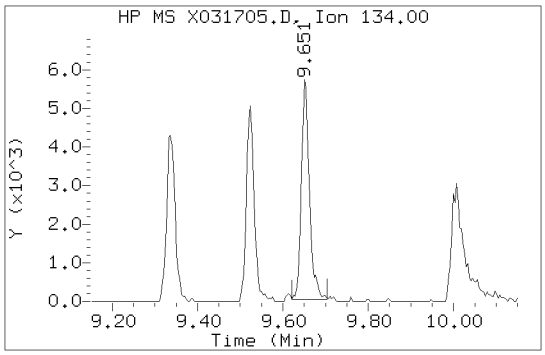
p-Isopropyltoluene (99-87-6)

BEFORE
MASS
134
AREA
7684
HEIGHT
5691
30-Mar-2023
12:33
linh
pham

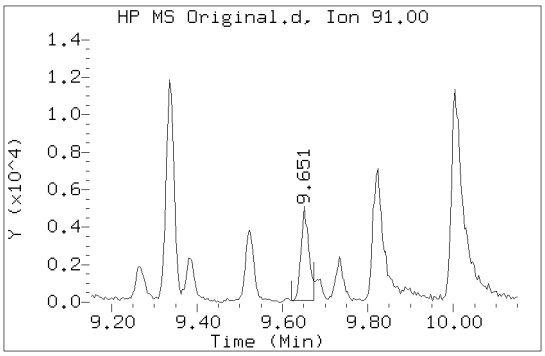


Reason Code:

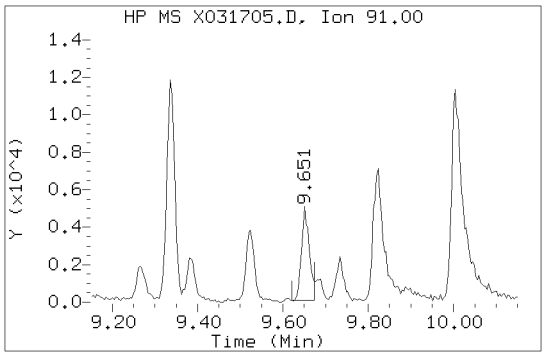
AFTER
MASS
134
AREA
7684
HEIGHT
5691
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
91
AREA
6592
HEIGHT
5018
30-Mar-2023
12:33
linh
pham



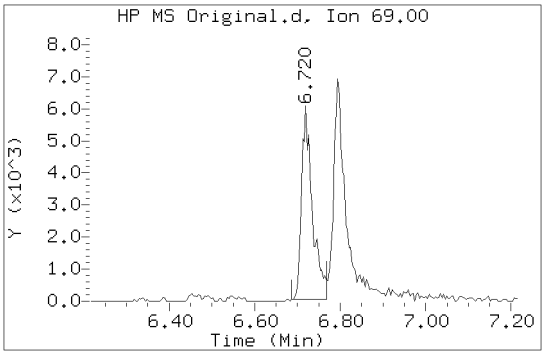
AFTER
MASS
91
AREA
6592
HEIGHT
5018
30-Mar-2023
12:41
linh
pham



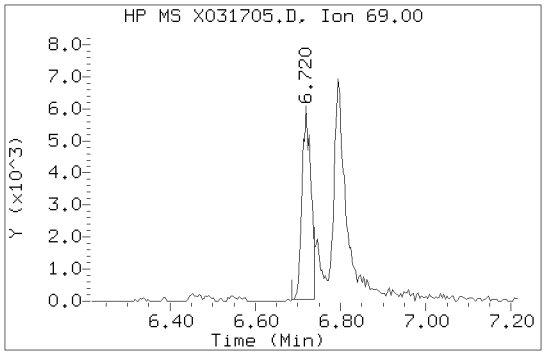
Ethyl Methacrylate (97-63-2)

Reason Code:

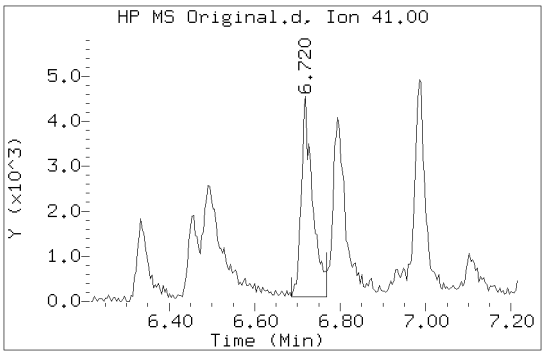
BEFORE
MASS
69
AREA
10752
HEIGHT
6028
30-Mar-2023
12:33
linh
pham



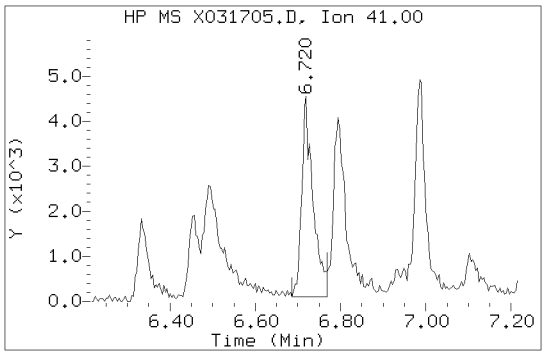
AFTER
MASS
69
AREA
8792
HEIGHT
6028
30-Mar-2023
12:41
linh
pham



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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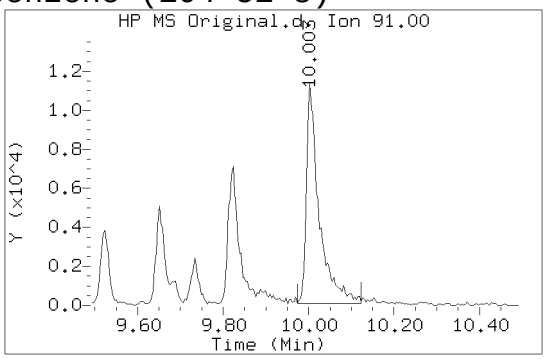
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

n-Butylbenzene (104-51-8)

Reason Code:

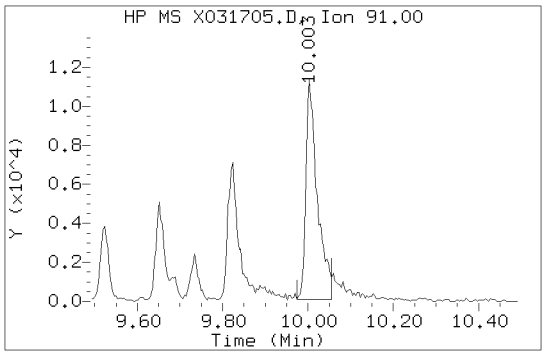
BEFORE

MASS
91
AREA
23510
HEIGHT
11276
30-Mar-2023
12:33
linh
pham



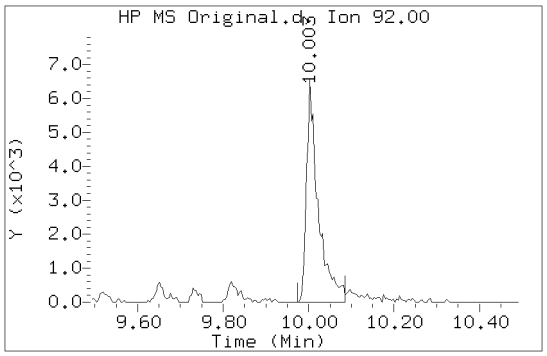
AFTER

MASS
91
AREA
21203
HEIGHT
11276
30-Mar-2023
12:41
linh
pham



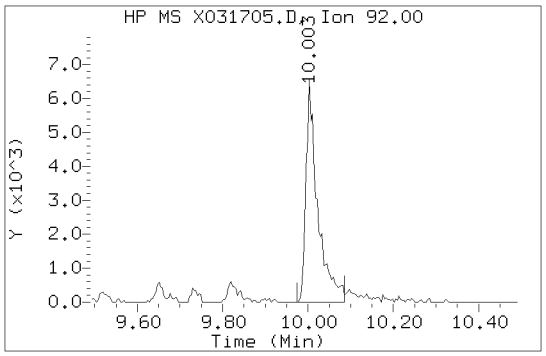
BEFORE

MASS
92
AREA
12533
HEIGHT
6547
30-Mar-2023
12:33
linh
pham



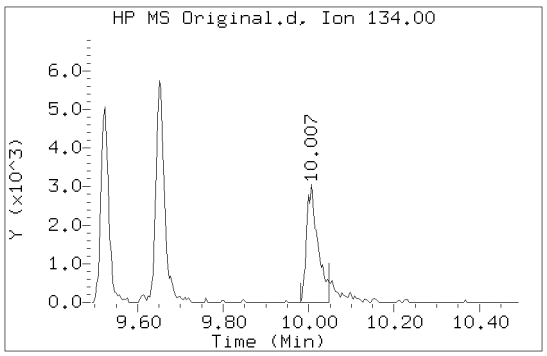
AFTER

MASS
92
AREA
12533
HEIGHT
6547
30-Mar-2023
12:41
linh
pham



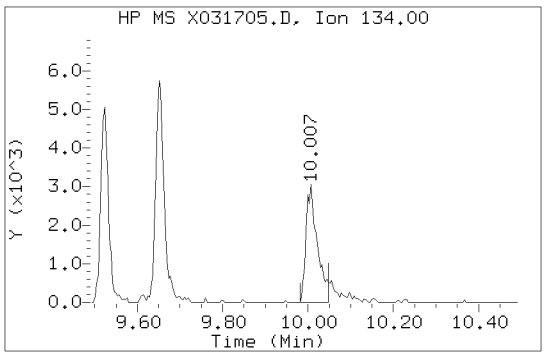
BEFORE

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

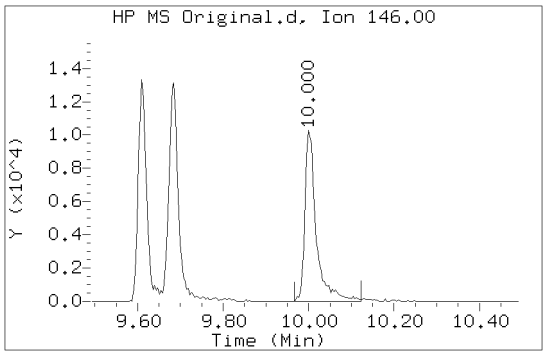


1,2-Dichlorobenzene (95-50-1)

Reason Code:

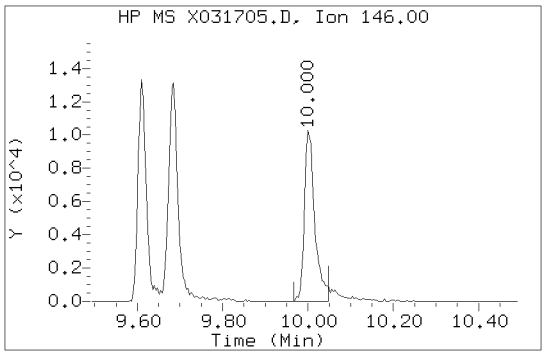
BEFORE

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

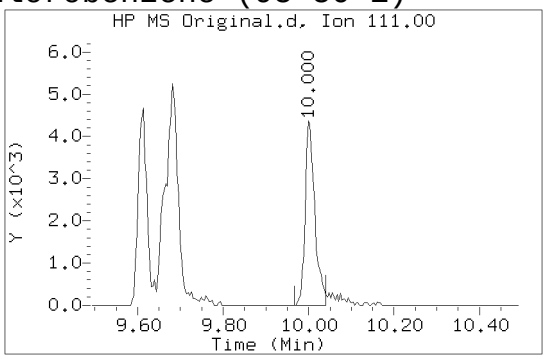


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

1,2-Dichlorobenzene (95-50-1)

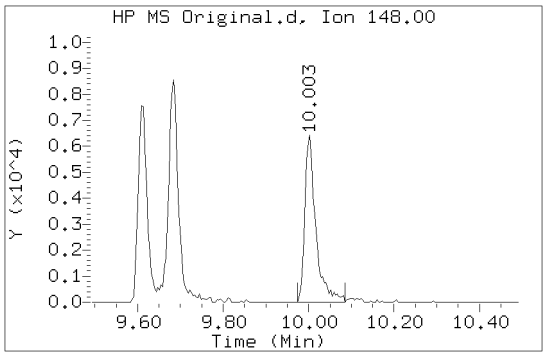
BEFORE

MASS
111
AREA
6944
HEIGHT
4376
30-Mar-2023
12:33
linh
pham



BEFORE

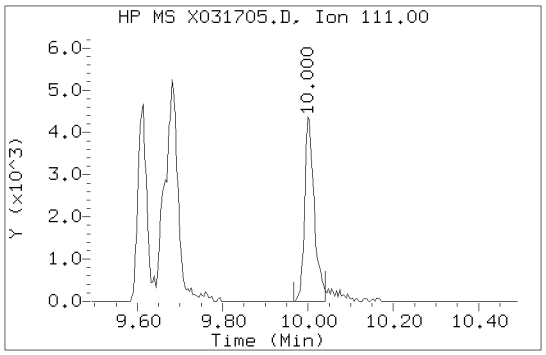
MASS
148
AREA
11682
HEIGHT
6424
30-Mar-2023
12:33
linh
pham



Reason Code:

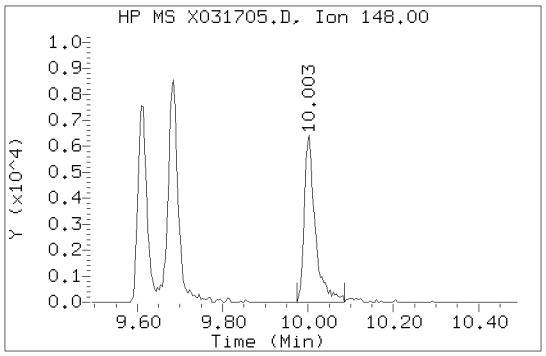
AFTER

MASS
111
AREA
6944
HEIGHT
4376
30-Mar-2023
12:41
linh
pham



AFTER

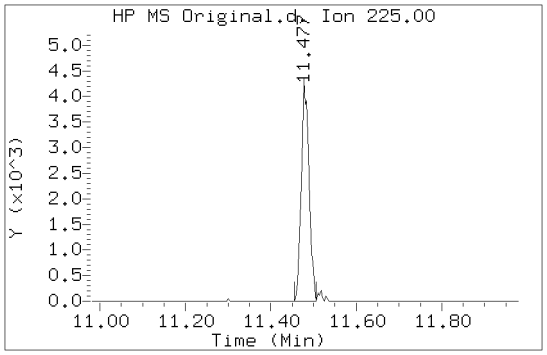
MASS
148
AREA
11682
HEIGHT
6424
30-Mar-2023
12:41
linh
pham



Hexachlorobutadiene (87-68-3)

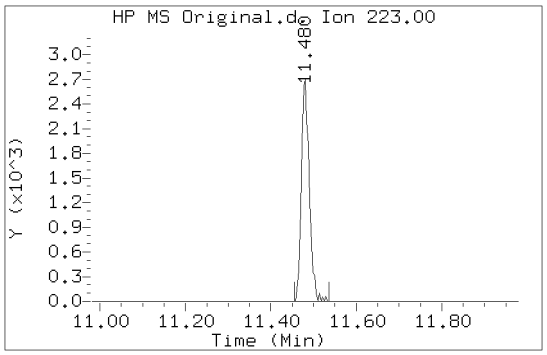
BEFORE

MASS
225
AREA
5604
HEIGHT
4343
30-Mar-2023
12:33
linh
pham



BEFORE

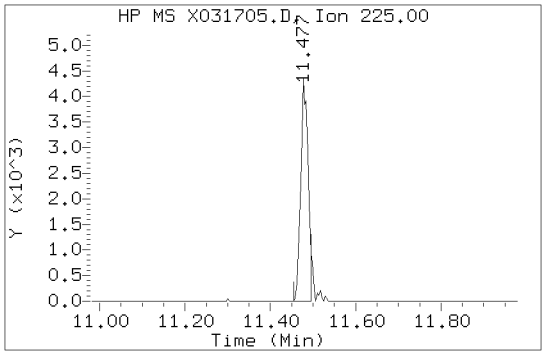
MASS
223
AREA
3589
HEIGHT
2696
30-Mar-2023
12:33
linh
pham



Reason Code:

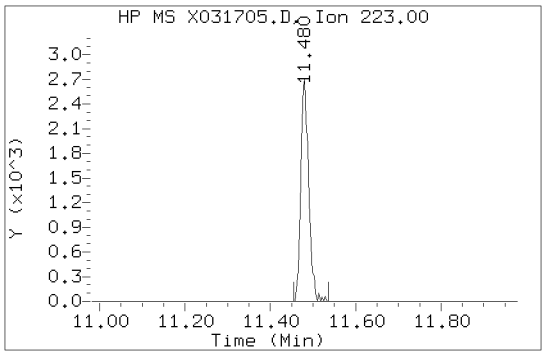
AFTER

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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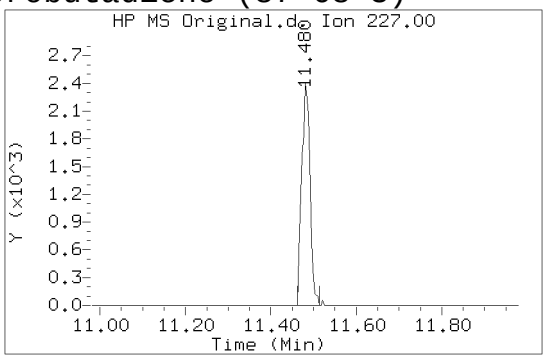
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Hexachlorobutadiene (87-68-3)

Reason Code:

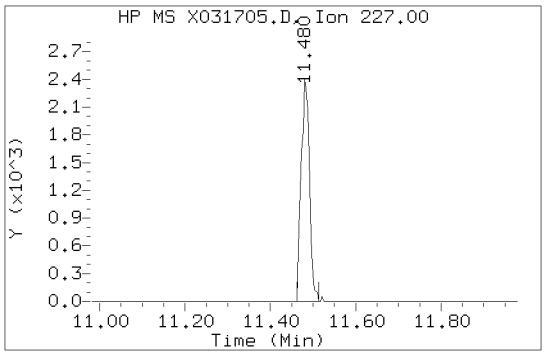
BEFORE

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

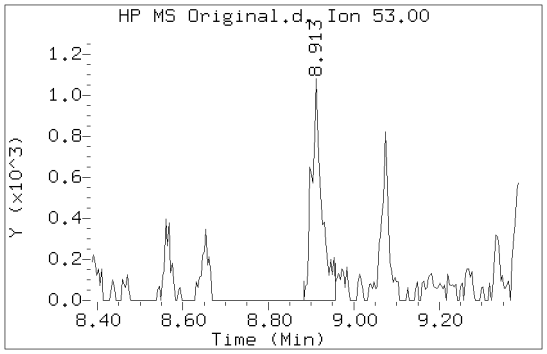


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

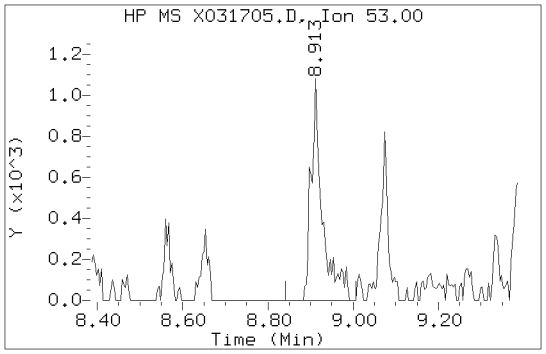
BEFORE

MASS
53
AREA
1786
HEIGHT
1081
30-Mar-2023
12:33
linh
pham



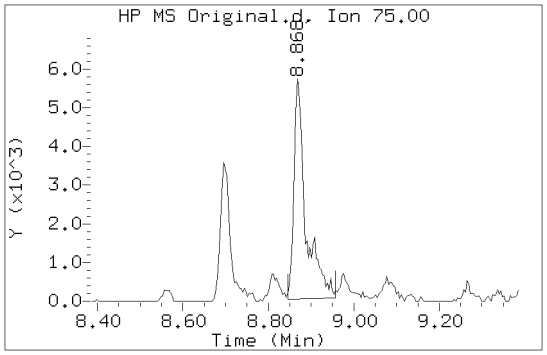
AFTER

MASS
53
AREA
1998
HEIGHT
1081
30-Mar-2023
12:41
linh
pham



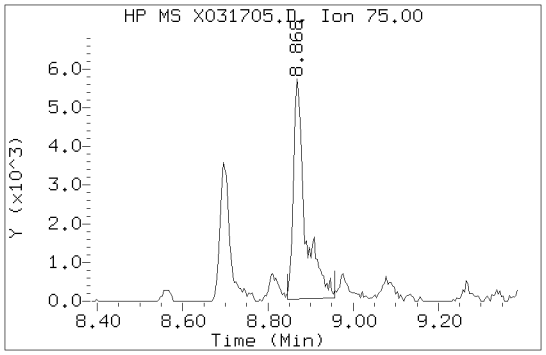
BEFORE

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

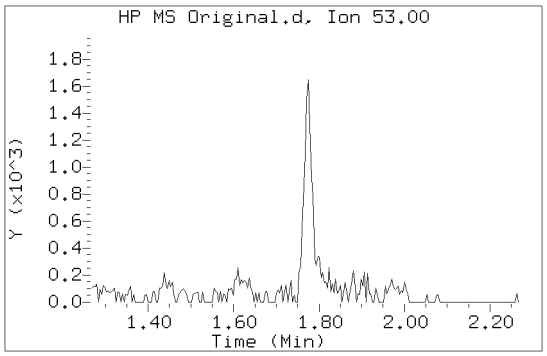


Chloroprene (126-99-8)

Reason Code:

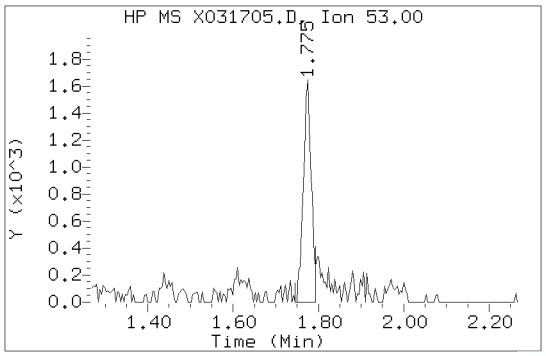
BEFORE

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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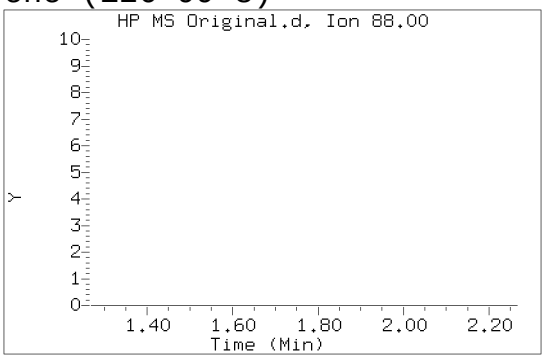
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Chloroprene (126-99-8)

Reason Code:

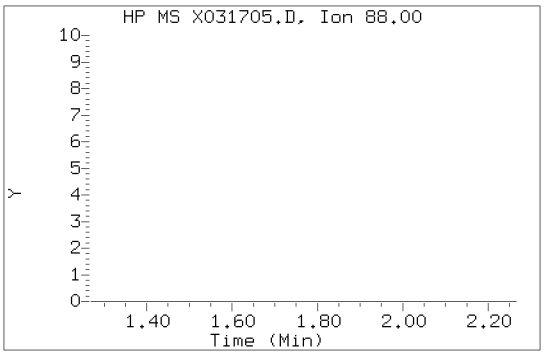
BEFORE

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

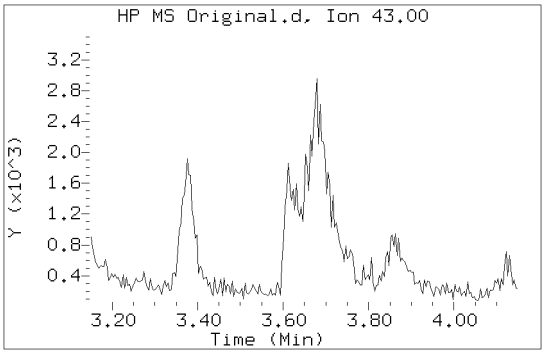


Ethyl Acetate (141-78-6)

Reason Code:

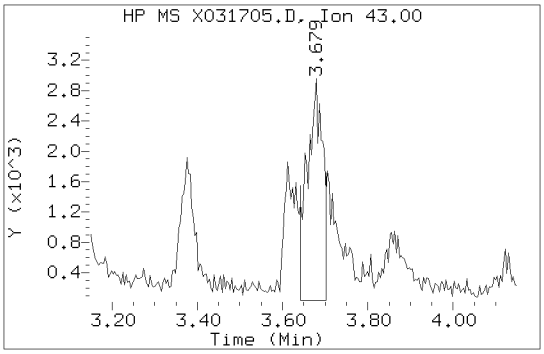
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



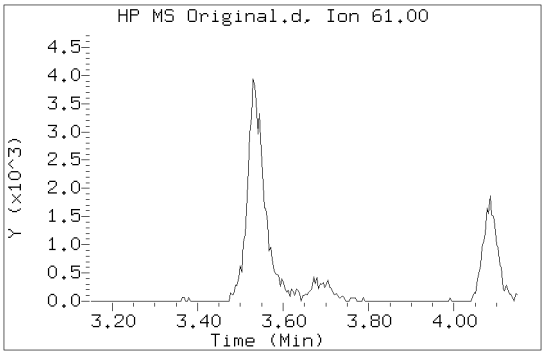
AFTER

MASS
43
AREA
7453
HEIGHT
2920
30-Mar-2023
12:41
linh
pham



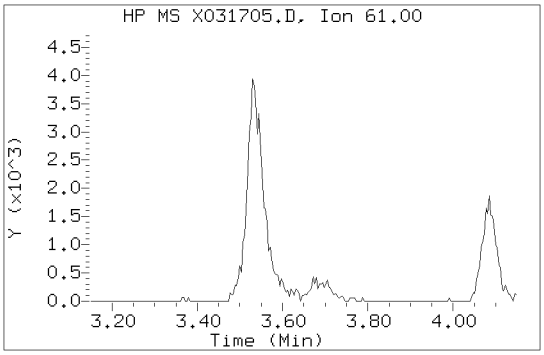
BEFORE

MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



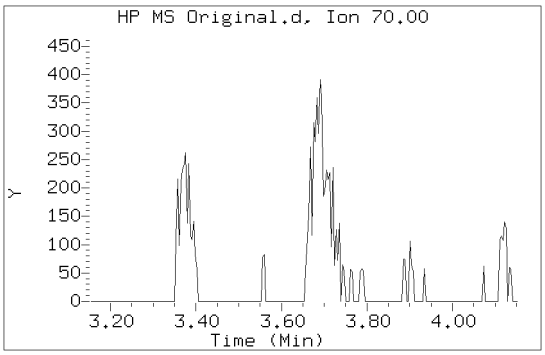
AFTER

MASS
61
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



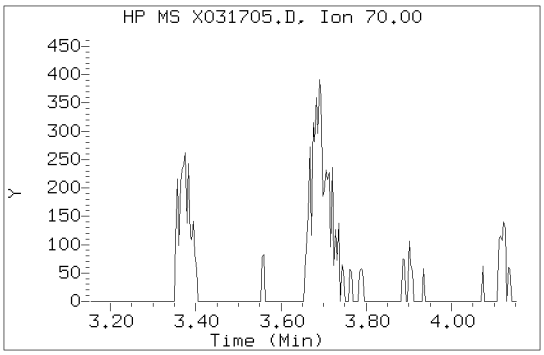
BEFORE

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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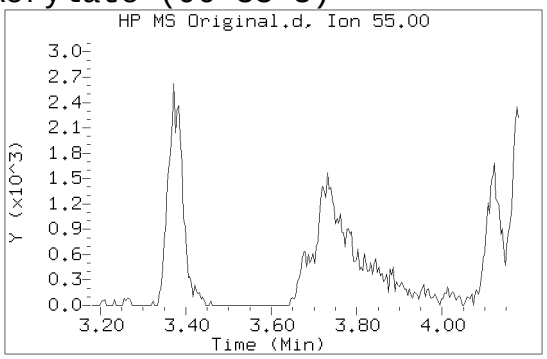
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Methyl Acrylate (96-33-3)

Reason Code:

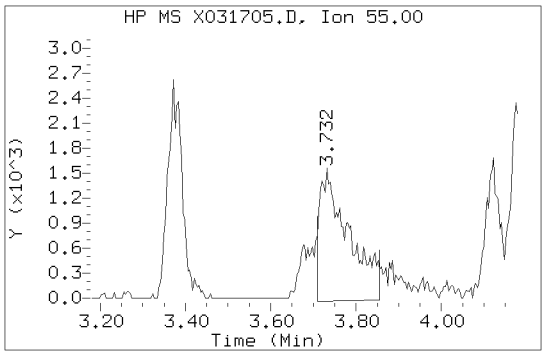
BEFORE

MASS
55
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



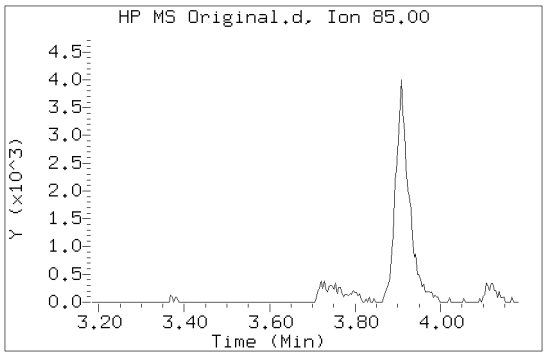
AFTER

MASS
55
AREA
7555
HEIGHT
1599
30-Mar-2023
12:41
linh
pham



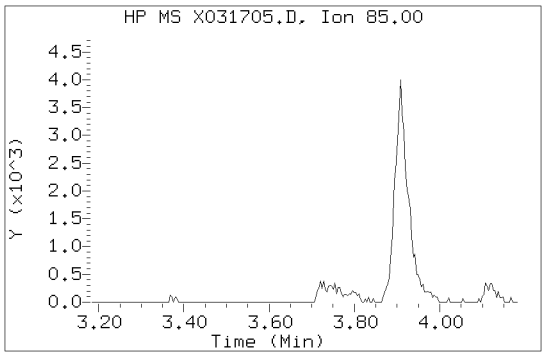
BEFORE

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

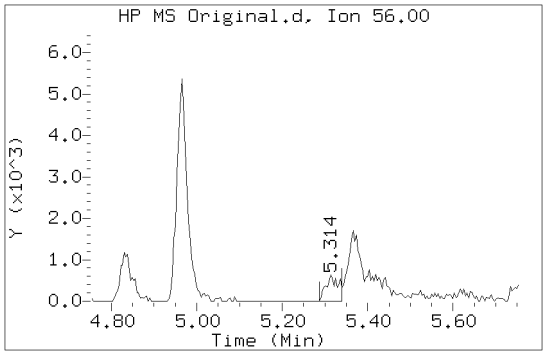


n-Butanol (71-36-3)

Reason Code:

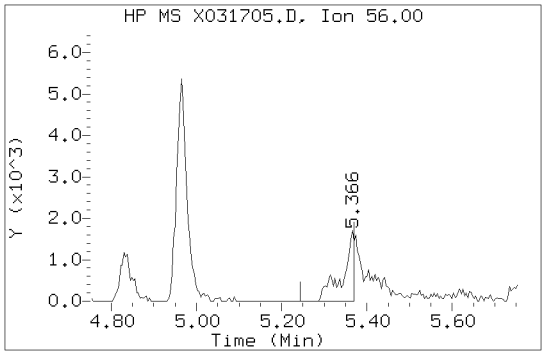
BEFORE

MASS
56
AREA
1263
HEIGHT
640
30-Mar-2023
12:33
linh
pham



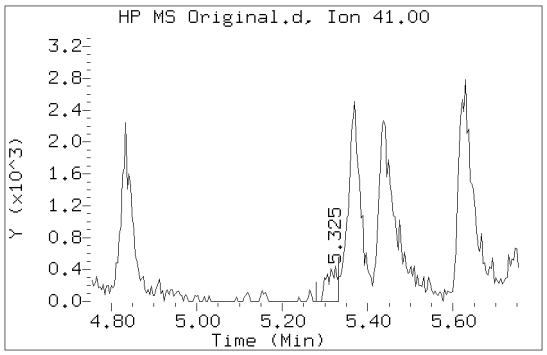
AFTER

MASS
56
AREA
3165
HEIGHT
1712
30-Mar-2023
12:41
linh
pham



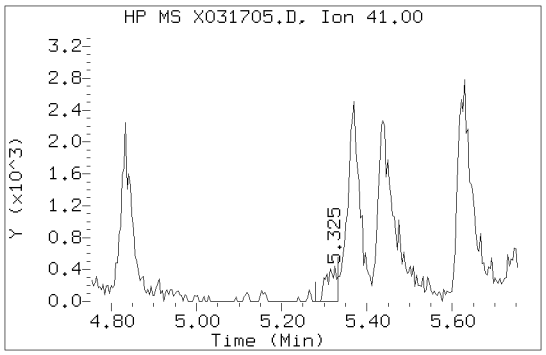
BEFORE

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

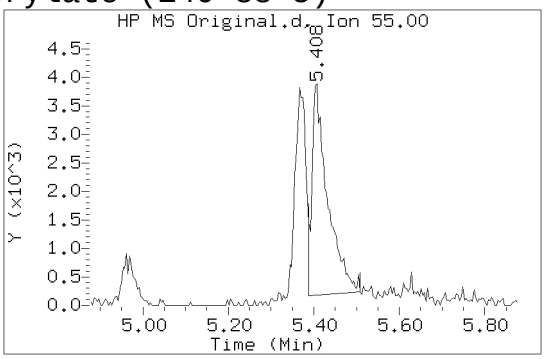


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Ethyl Acrylate (140-88-5)

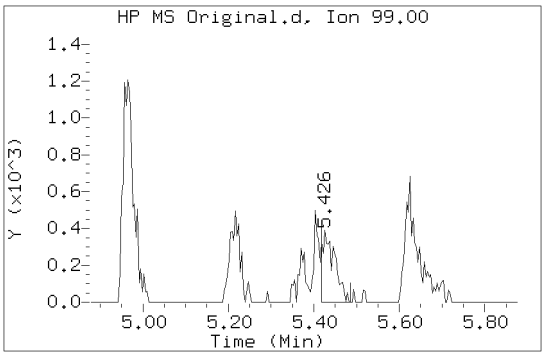
BEFORE

MASS
55
AREA
9501
HEIGHT
3708
30-Mar-2023
12:33
linh
pham



BEFORE

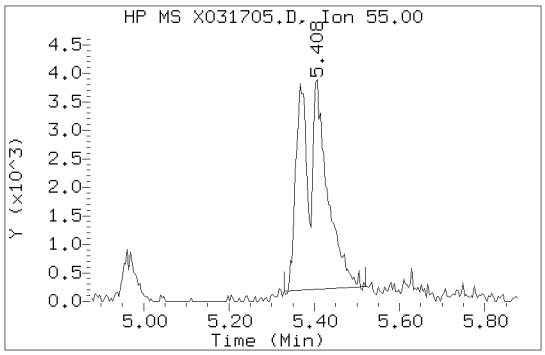
MASS
99
AREA
787
HEIGHT
391
30-Mar-2023
12:33
linh
pham



Reason Code:

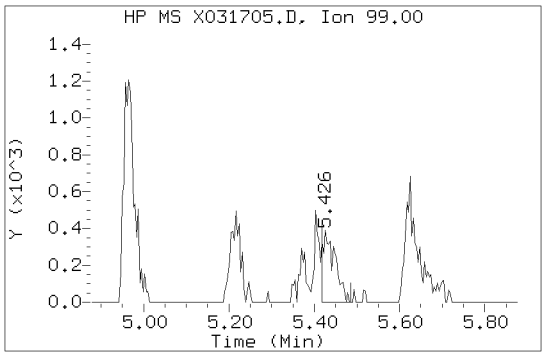
AFTER

MASS
55
AREA
15497
HEIGHT
3674
30-Mar-2023
12:41
linh
pham



AFTER

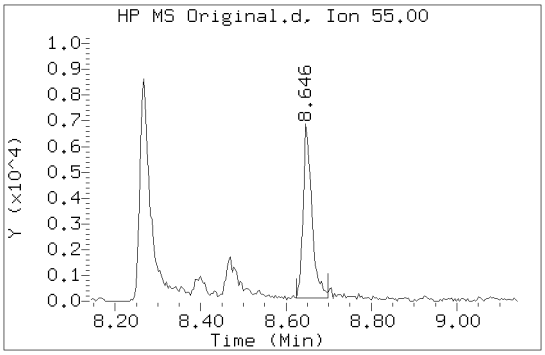
MASS
99
AREA
787
HEIGHT
391
30-Mar-2023
12:41
linh
pham



Cyclohexanone (108-94-1)

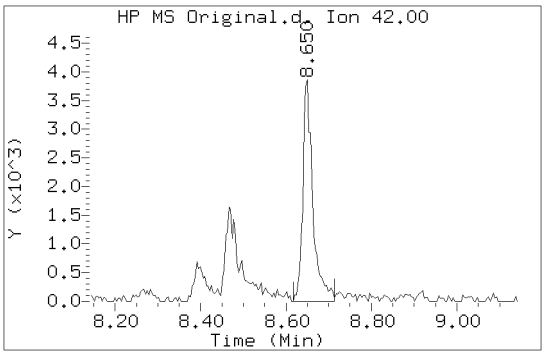
BEFORE

MASS
55
AREA
9770
HEIGHT
6746
30-Mar-2023
12:33
linh
pham



BEFORE

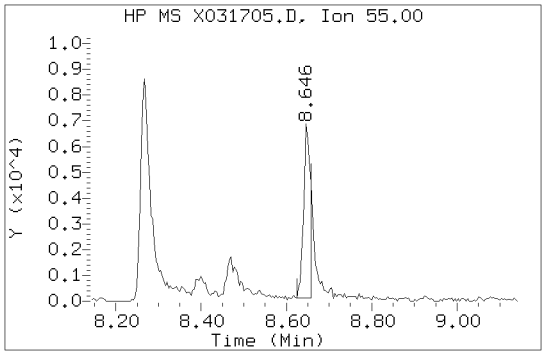
MASS
42
AREA
6426
HEIGHT
3864
30-Mar-2023
12:33
linh
pham



Reason Code:

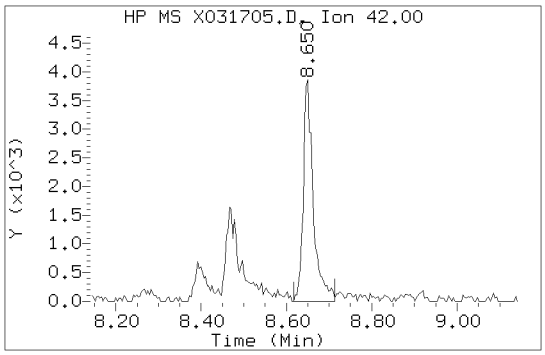
AFTER

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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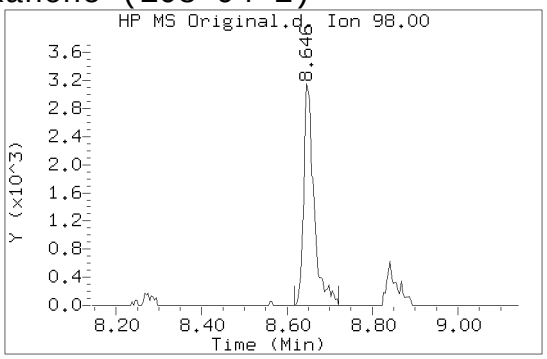
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Cyclohexanone (108-94-1)

BEFORE

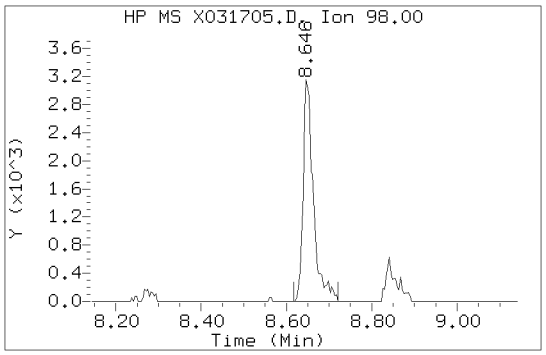
MASS
98
AREA
5390
HEIGHT
3154
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

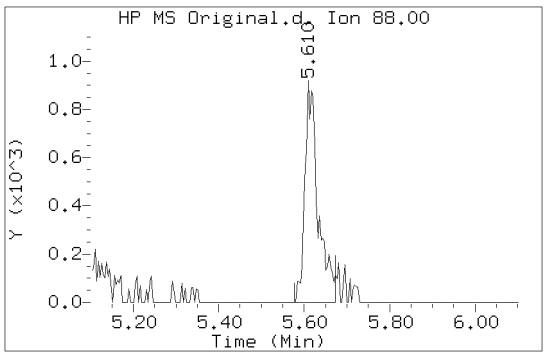
MASS
98
AREA
5390
HEIGHT
3154
30-Mar-2023
12:41
linh
pham



1,4-Dioxane ()

BEFORE

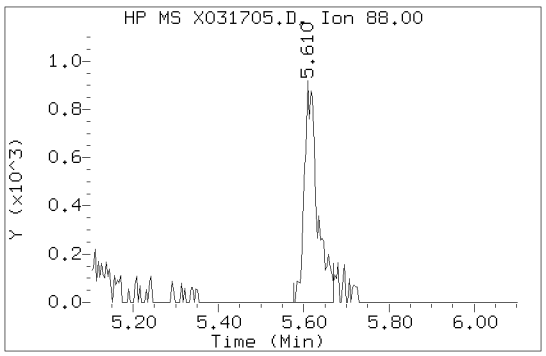
MASS
88
AREA
1992
HEIGHT
919
30-Mar-2023
12:33
linh
pham



Reason Code:

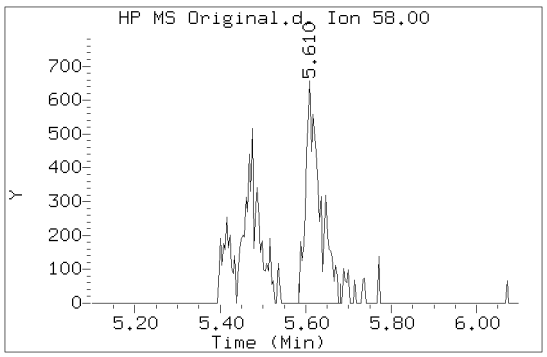
AFTER

MASS
88
AREA
1966
HEIGHT
919
30-Mar-2023
12:41
linh
pham



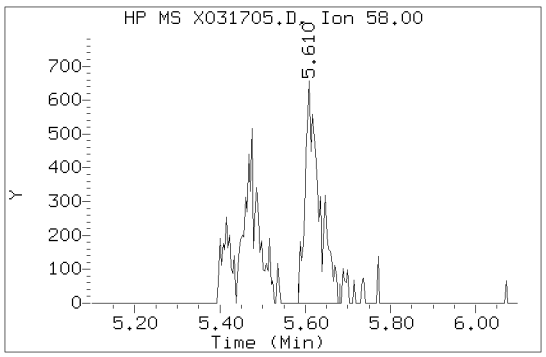
BEFORE

MASS
58
AREA
1530
HEIGHT
657
30-Mar-2023
12:33
linh
pham



AFTER

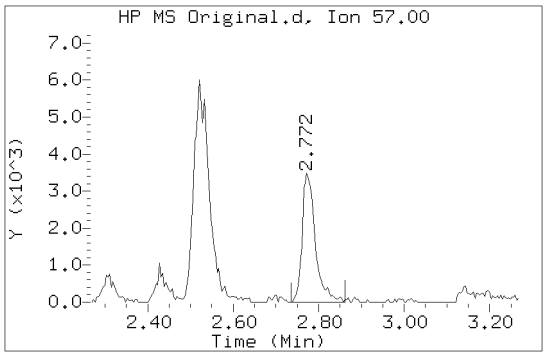
MASS
58
AREA
1530
HEIGHT
657
30-Mar-2023
12:41
linh
pham



n-Hexane (110-54-3)

BEFORE

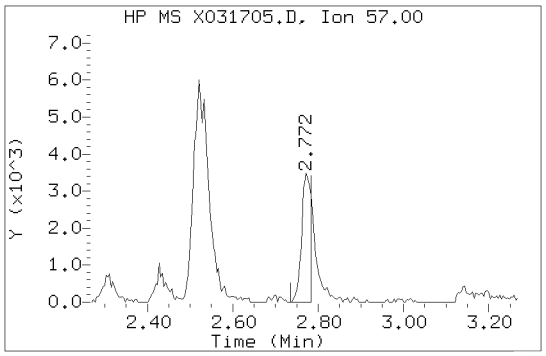
MASS
57
AREA
7617
HEIGHT
3483
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

MASS
57
AREA
5204
HEIGHT
3483
30-Mar-2023
12:41
linh
pham



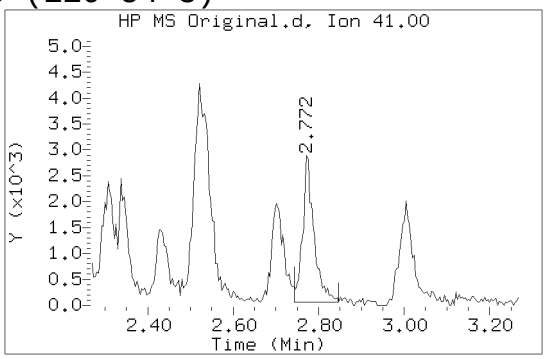
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031705.D
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

n-Hexane (110-54-3)

Reason Code:

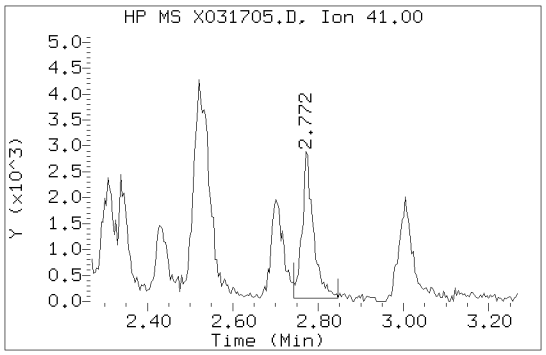
BEFORE

MASS
41
AREA
5361
HEIGHT
2834
30-Mar-2023
12:33
linh
pham



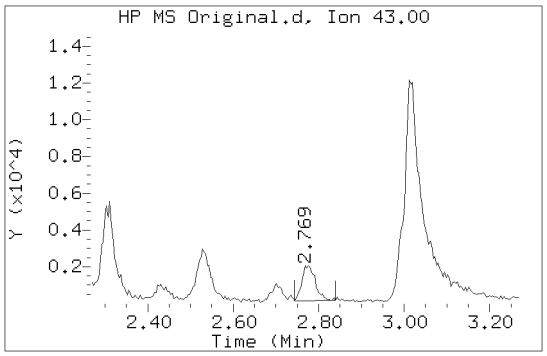
AFTER

MASS
41
AREA
5361
HEIGHT
2834
30-Mar-2023
12:41
linh
pham



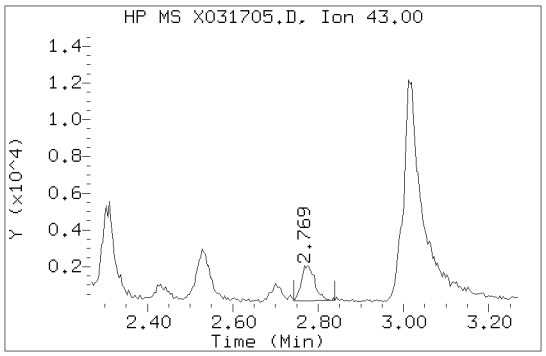
BEFORE

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

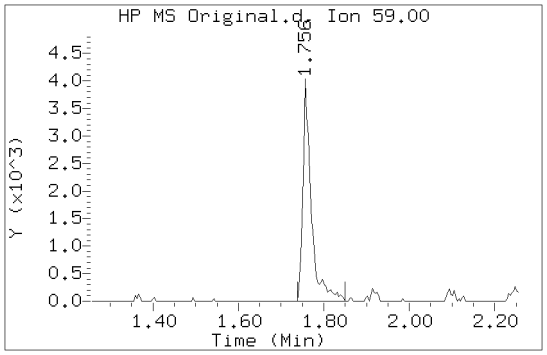


Diethyl ether (60-29-7)

Reason Code:

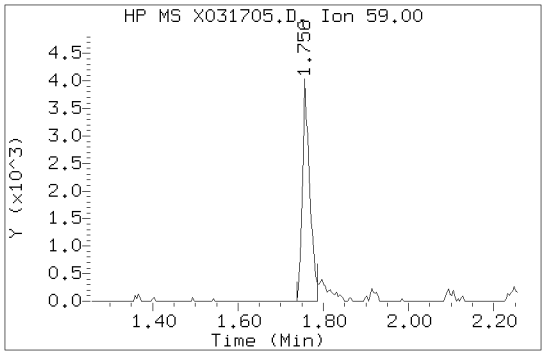
BEFORE

MASS
59
AREA
5680
HEIGHT
4036
30-Mar-2023
12:33
linh
pham



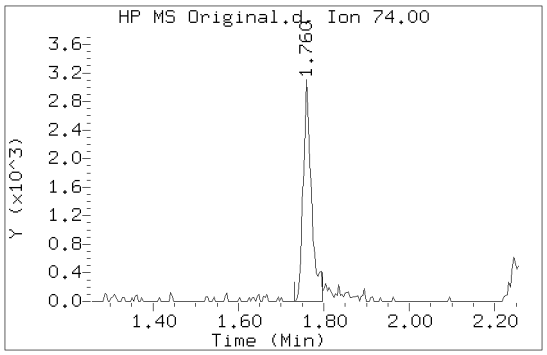
AFTER

MASS
59
AREA
4986
HEIGHT
4036
30-Mar-2023
12:41
linh
pham



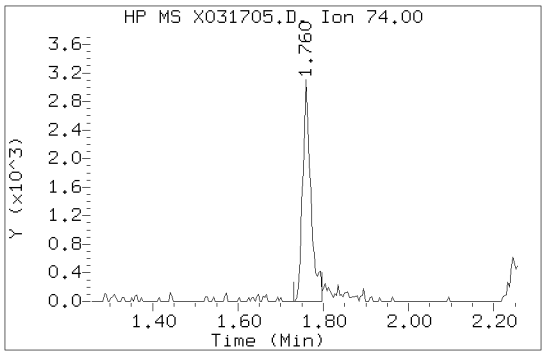
BEFORE

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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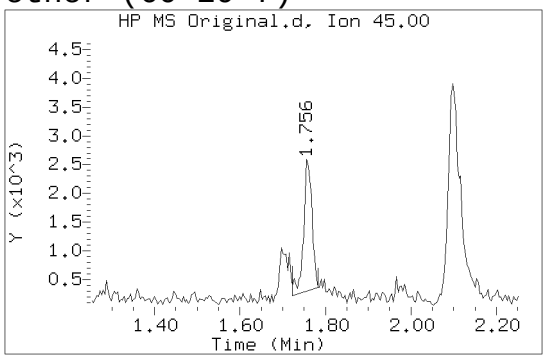
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Diethyl ether (60-29-7)

Reason Code:

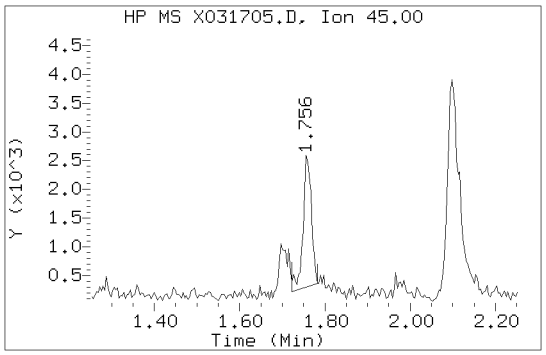
BEFORE

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

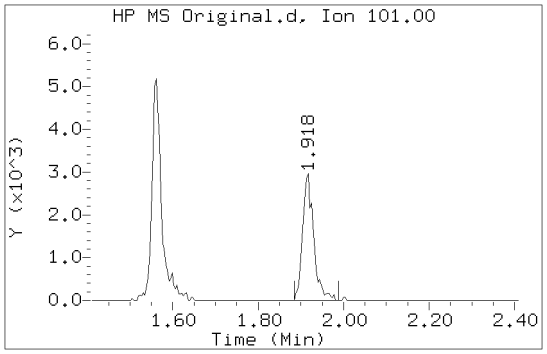


Freon TF (76-13-1)

Reason Code:

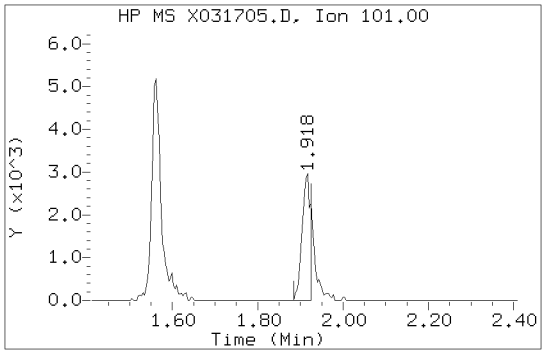
BEFORE

MASS
101
AREA
5432
HEIGHT
2973
30-Mar-2023
12:33
linh
pham



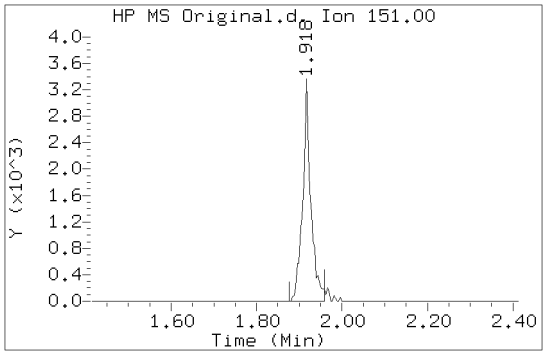
AFTER

MASS
101
AREA
4071
HEIGHT
2973
30-Mar-2023
12:41
linh
pham



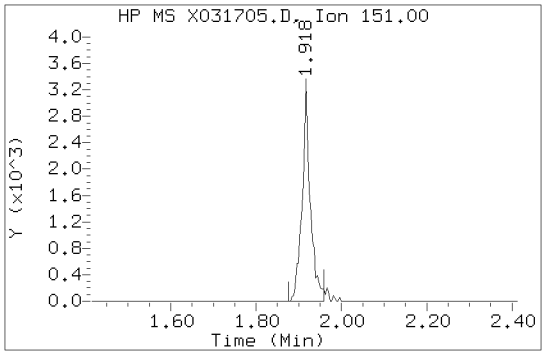
BEFORE

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

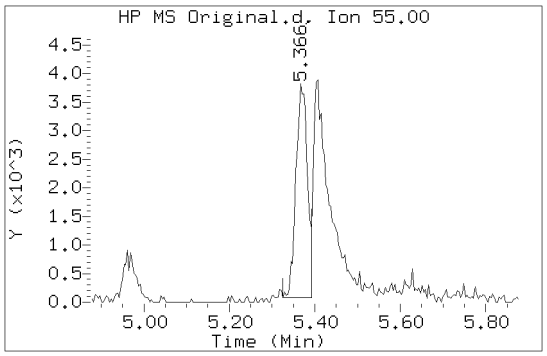


Methylcyclohexane (108-87-2)

Reason Code:

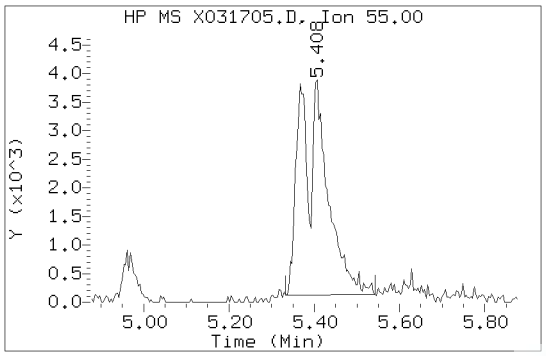
BEFORE

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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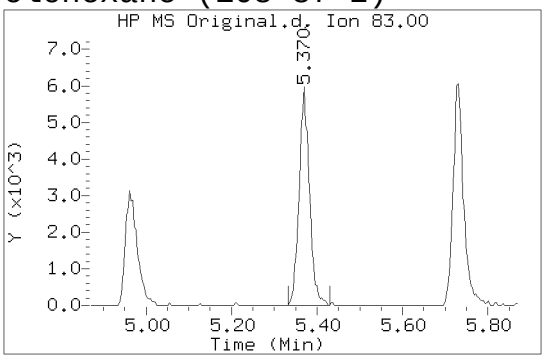
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Methylcyclohexane (108-87-2)

BEFORE

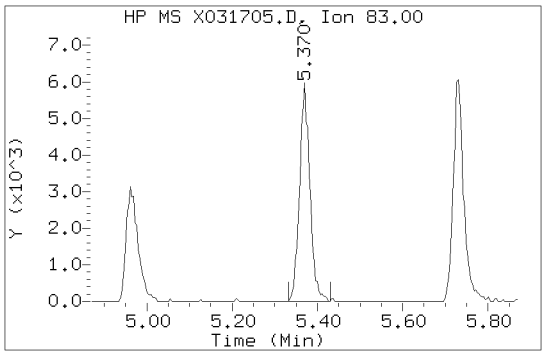
MASS
83
AREA
10272
HEIGHT
5978
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

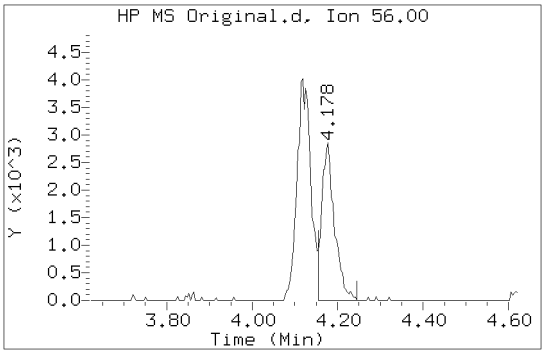
MASS
83
AREA
10272
HEIGHT
5978
30-Mar-2023
12:41
linh
pham



Cyclohexane (110-82-7)

BEFORE

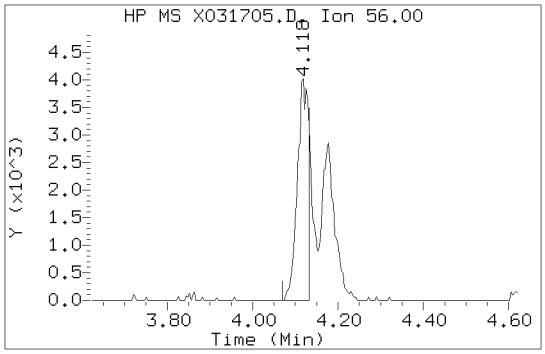
MASS
56
AREA
5934
HEIGHT
2865
30-Mar-2023
12:33
linh
pham



Reason Code:

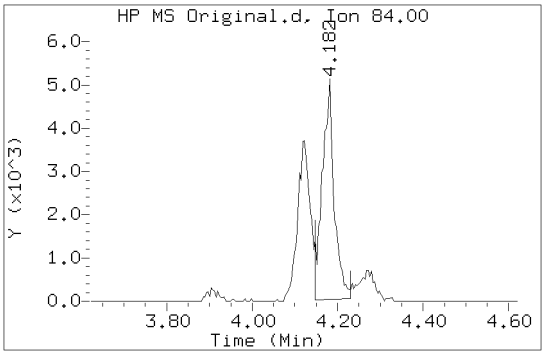
AFTER

MASS
56
AREA
7493
HEIGHT
4022
30-Mar-2023
12:41
linh
pham



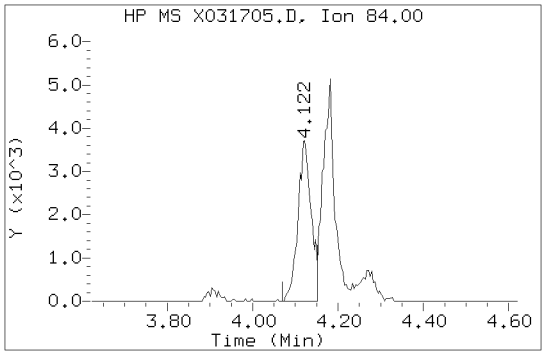
BEFORE

MASS
84
AREA
9905
HEIGHT
5100
30-Mar-2023
12:33
linh
pham



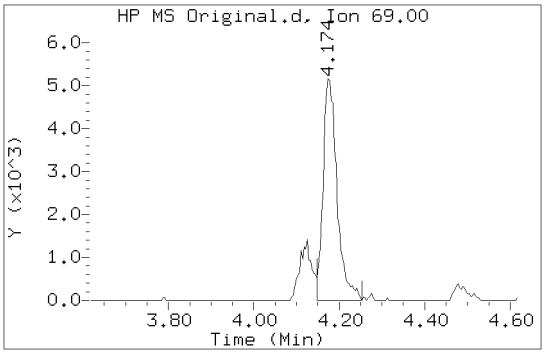
AFTER

MASS
84
AREA
8172
HEIGHT
3709
30-Mar-2023
12:41
linh
pham



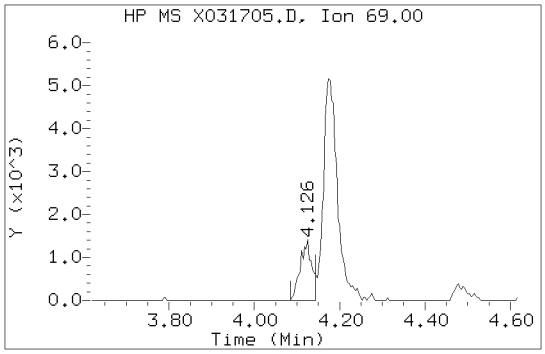
BEFORE

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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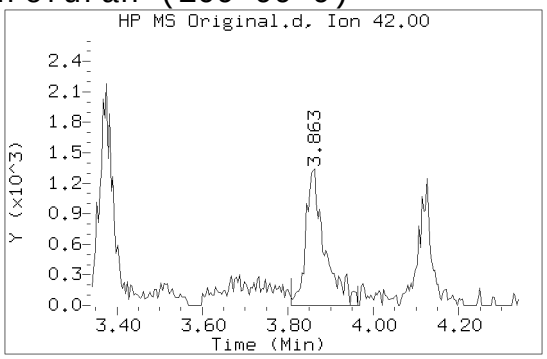
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

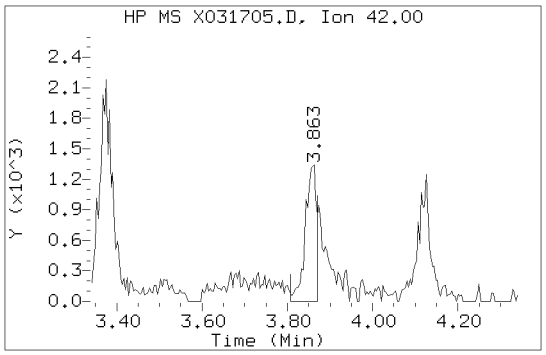
Tetrahydrofuran (109-99-9)

Reason Code:

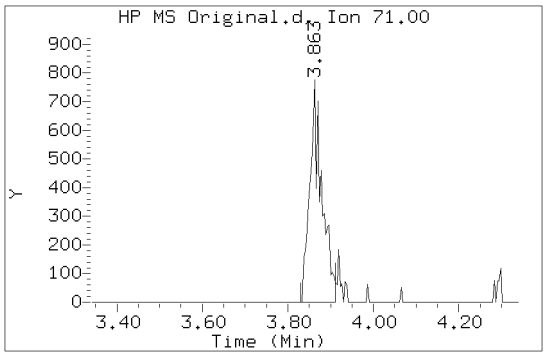
BEFORE
MASS
42
AREA
4203
HEIGHT
1345
30-Mar-2023
12:33
linh
pham



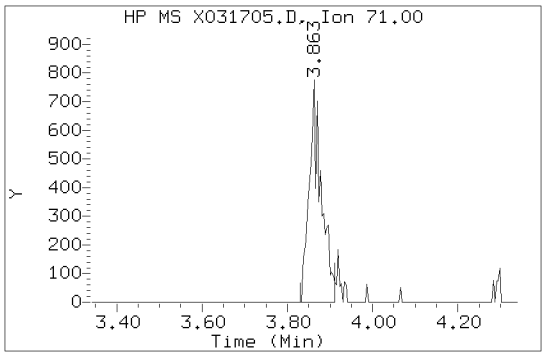
AFTER
MASS
42
AREA
2463
HEIGHT
1345
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
71
AREA
1529
HEIGHT
776
30-Mar-2023
12:33
linh
pham



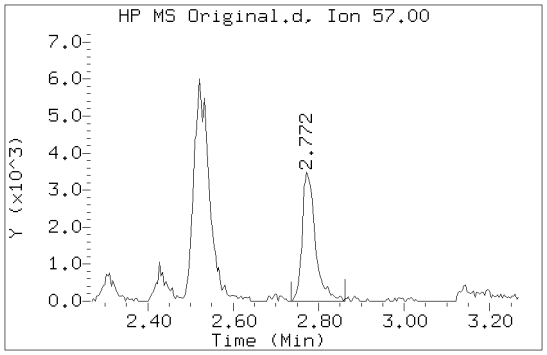
AFTER
MASS
71
AREA
1529
HEIGHT
776
30-Mar-2023
12:41
linh
pham



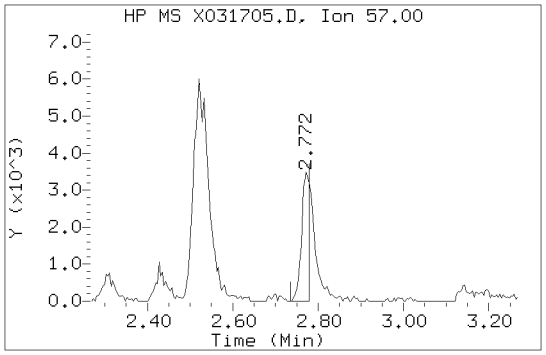
Allyl alcohol (107-18-6)

Reason Code:

BEFORE
MASS
57
AREA
7617
HEIGHT
3483
30-Mar-2023
12:33
linh
pham



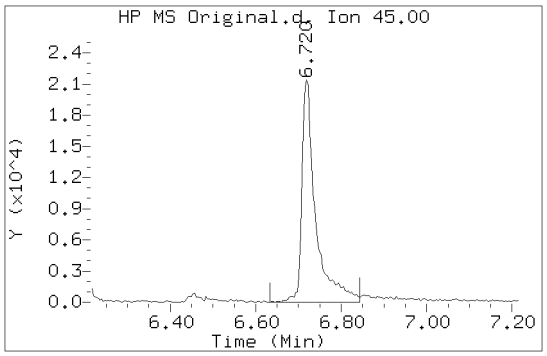
AFTER
MASS
57
AREA
4552
HEIGHT
3483
30-Mar-2023
12:41
linh
pham



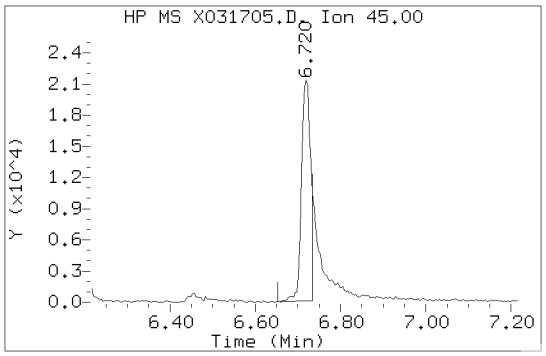
4-Methyl-2-pentanol (108-11-2)

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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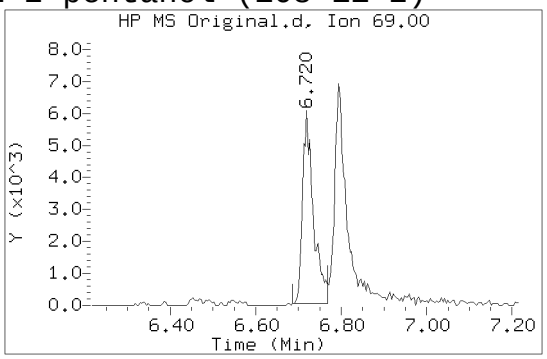
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

4-Methyl-2-pentanol (108-11-2)

Reason Code:

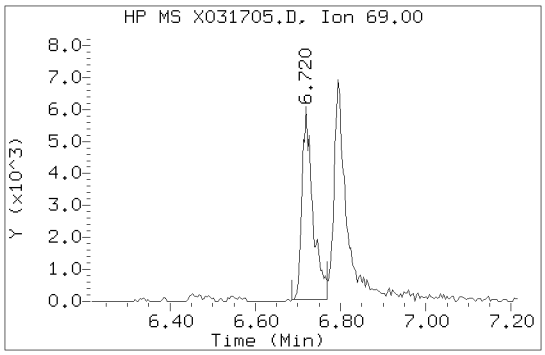
BEFORE

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

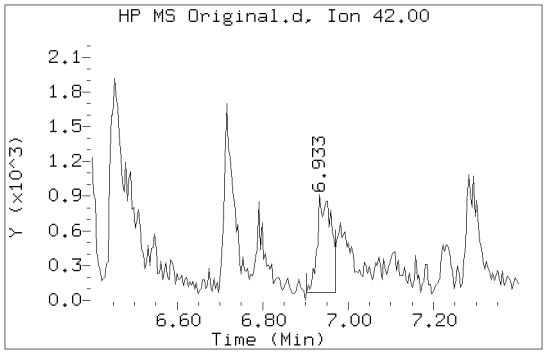


Amyl alcohol (71-41-0)

Reason Code:

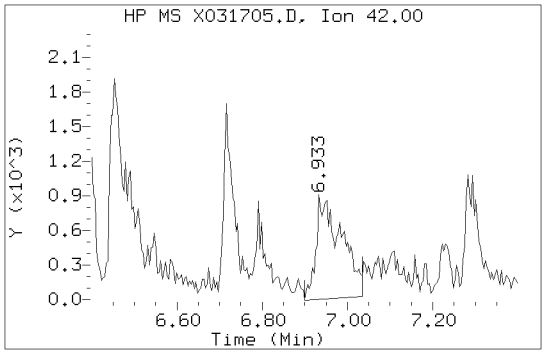
BEFORE

MASS
42
AREA
1896
HEIGHT
843
30-Mar-2023
12:33
linh
pham



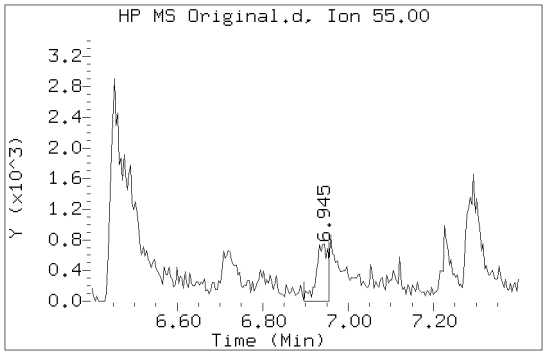
AFTER

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
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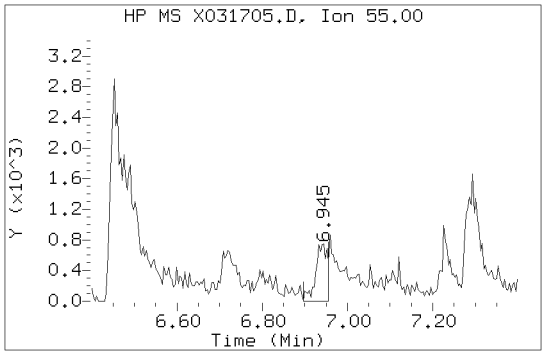

BEFORE

MASS
41
AREA
883
HEIGHT
515
30-Mar-2023
12:33
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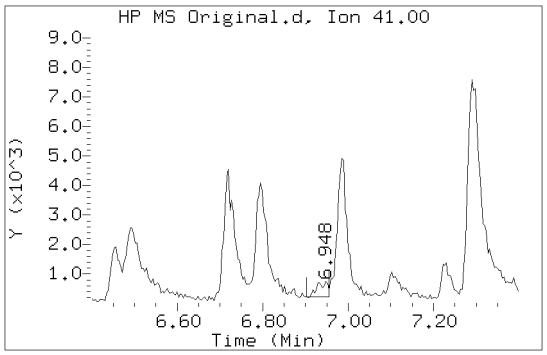

AFTER

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12:41
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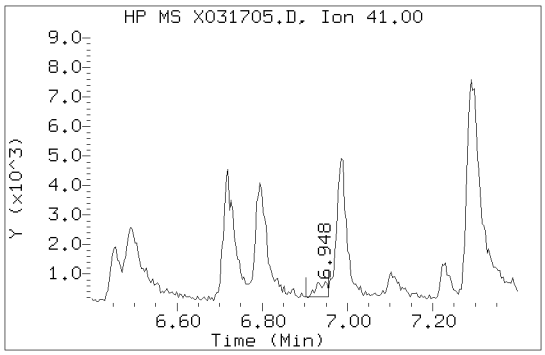

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Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

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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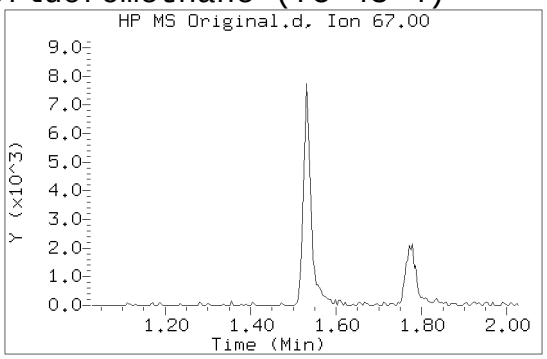
pham



AFTER
MASS
67
AREA
9922
HEIGHT
7742
30-Mar-2023
12:41
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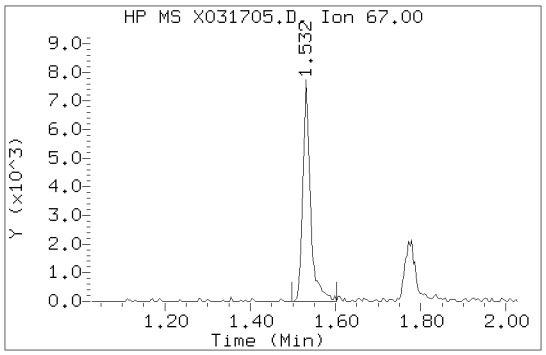

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30-Mar-2023
12:33
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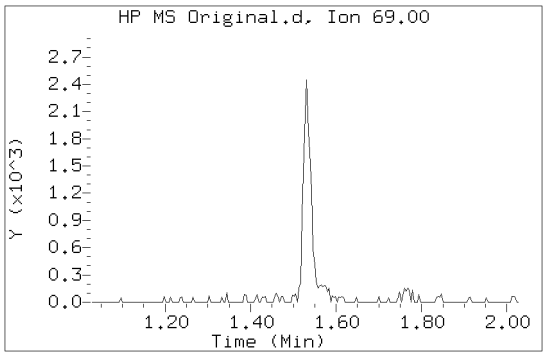

AFTER
MASS
69
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30-Mar-2023
12:41
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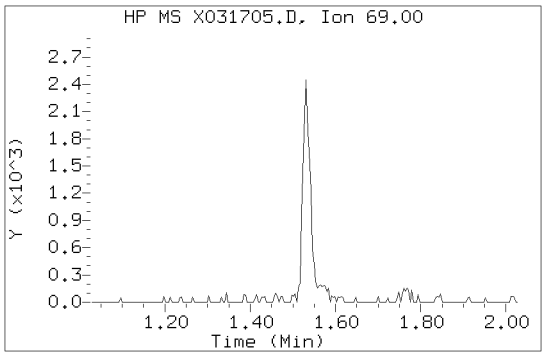

BEFORE
MASS
37
AREA
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HEIGHT
0
30-Mar-2023
12:33
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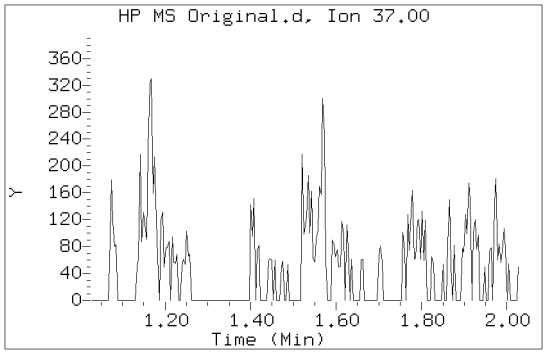

AFTER
MASS
37
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HEIGHT
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30-Mar-2023
12:41
linh
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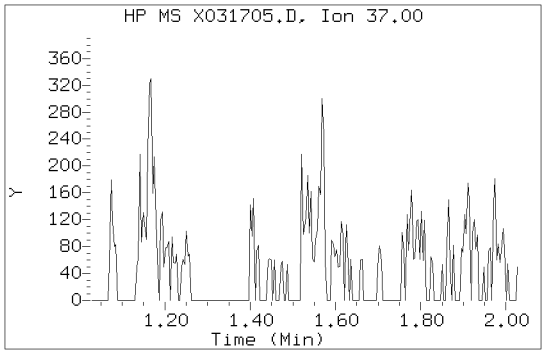

3-Methyl-1-butanol (123-51-3)

Reason Code:

BEFORE
MASS
55
AREA
1444
HEIGHT
744
30-Mar-2023
12:33
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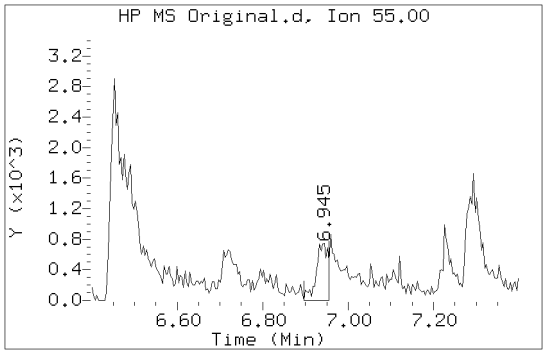

AFTER
MASS
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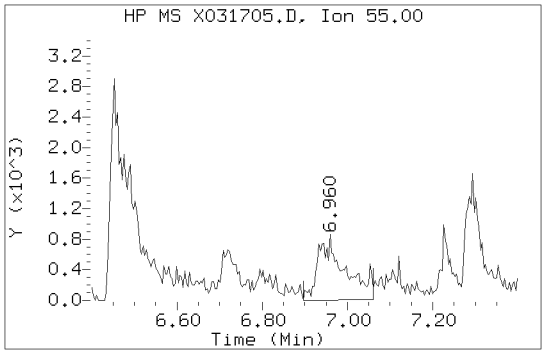
AREA
3723
HEIGHT
862
30-Mar-2023
12:41
linh
pham



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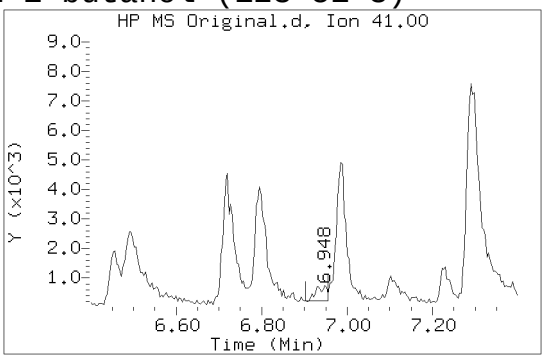
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

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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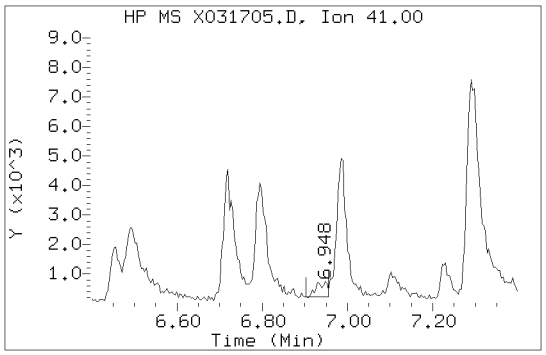

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

MASS
59
AREA
15126
HEIGHT
5602
30-Mar-2023
12:33
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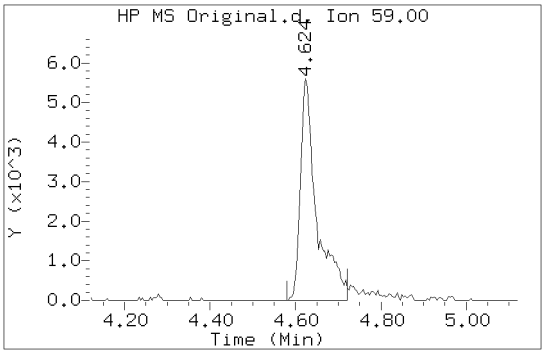

AFTER

MASS
59
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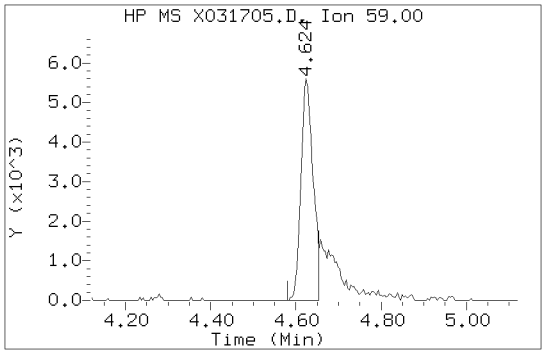
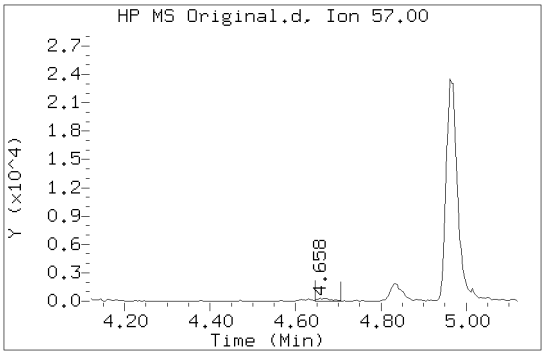
5602
30-Mar-2023
12:41
linh
pham



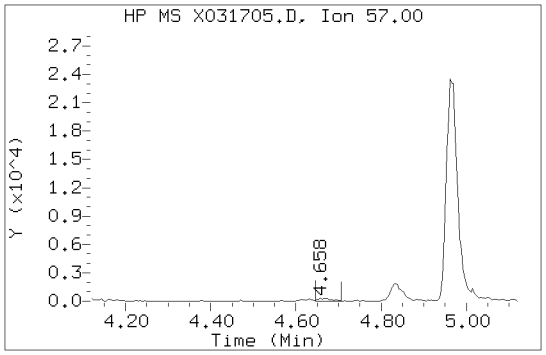
BEFORE

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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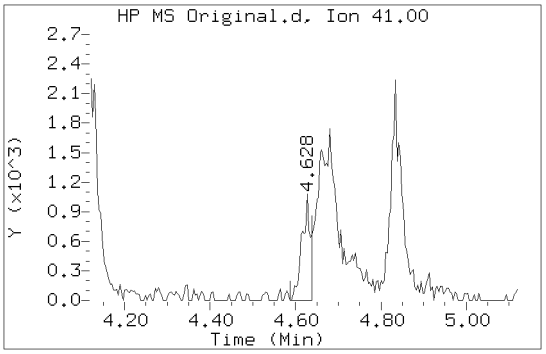
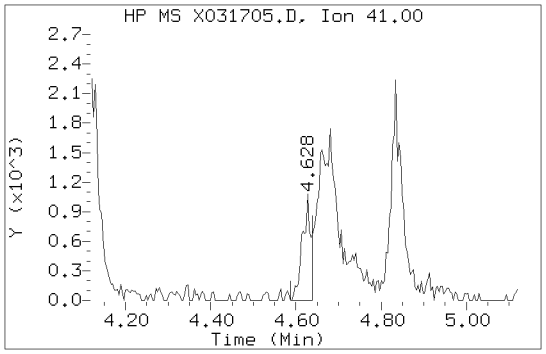
1513
HEIGHT
1083
30-Mar-2023
12:33
linh
pham



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
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AREA
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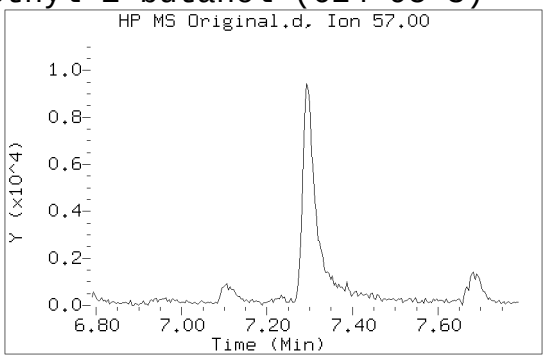
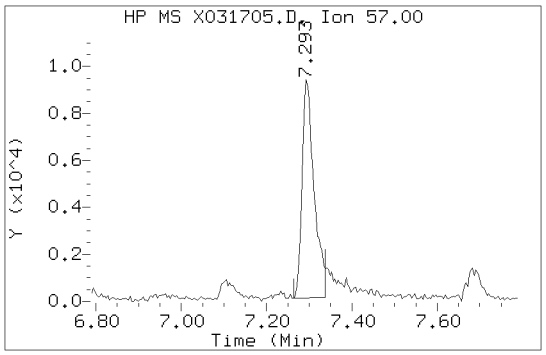
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
57
AREA
18400
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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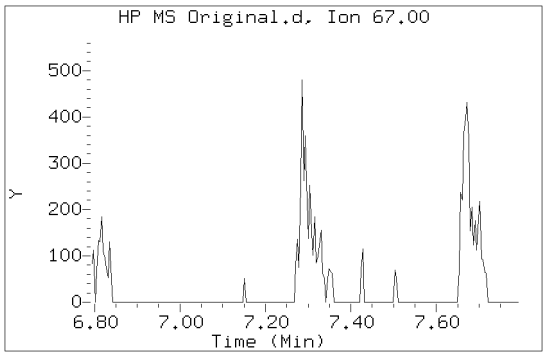

AFTER
MASS
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HEIGHT
0
30-Mar-2023
12:41
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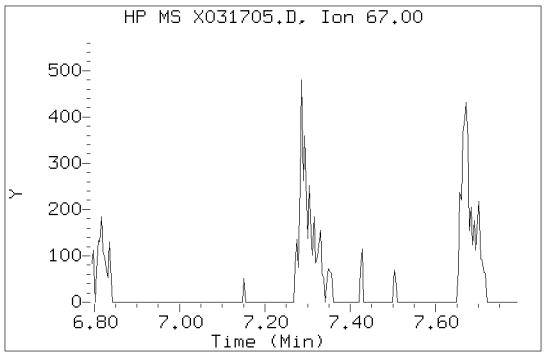
pham



BEFORE
MASS
56
AREA
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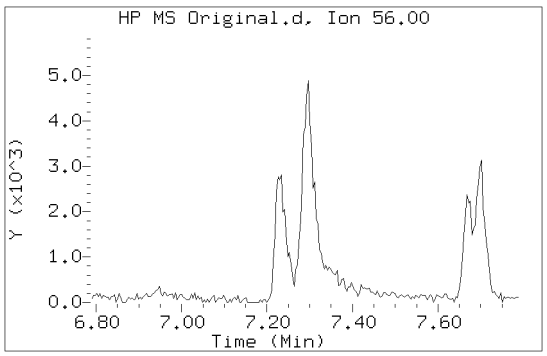
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
56
AREA
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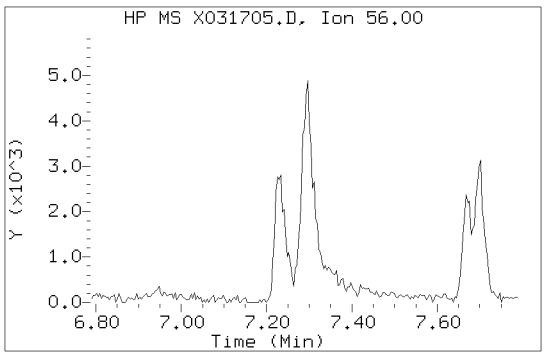
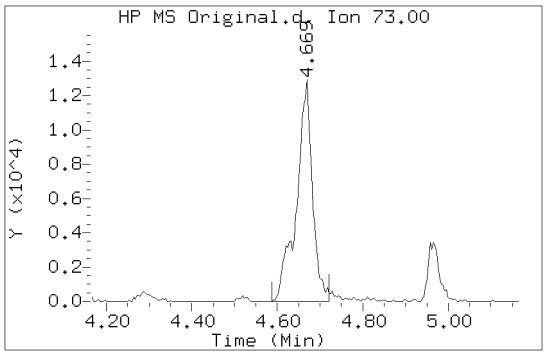
HEIGHT
0
30-Mar-2023
12:41
linh
pham



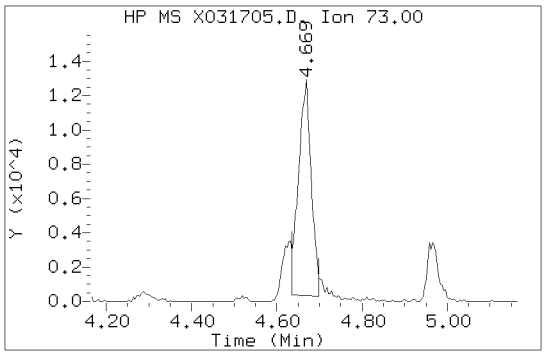
tert-Amyl methyl ether (974-05-08)

Reason Code:

BEFORE
MASS
73
AREA
34081
HEIGHT
12932
30-Mar-2023
12:33
linh
pham



AFTER
MASS
73
AREA
26677
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
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AREA
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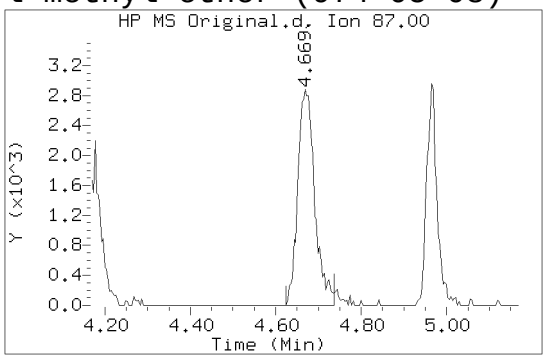
HEIGHT
2884
30-Mar-2023
12:33
linh
pham



AFTER

MASS
87
AREA
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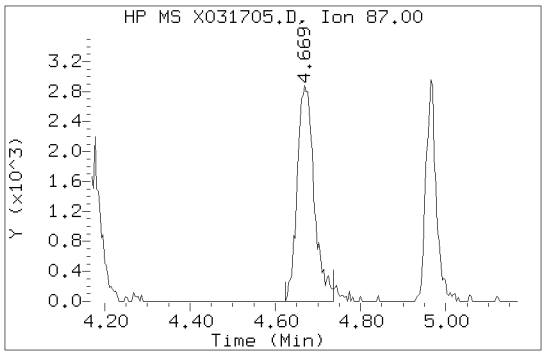
HEIGHT
2884
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
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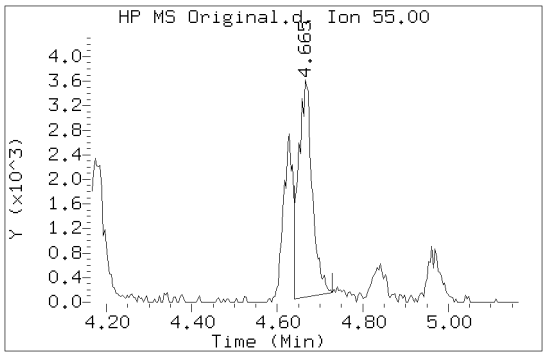
AREA
8190
HEIGHT
3535
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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AREA
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HEIGHT
3535
30-Mar-2023
12:41
linh
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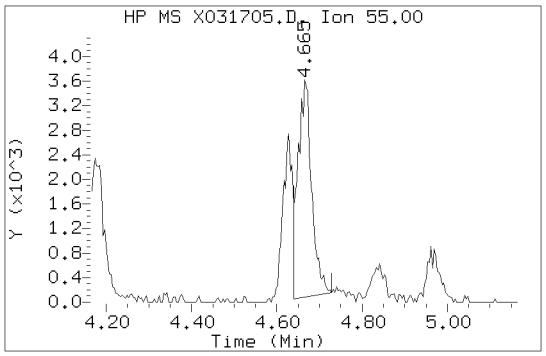

tert-Butyl ethyl ether (637-92-3)

Reason Code:

BEFORE

MASS
59
AREA
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HEIGHT
10481
30-Mar-2023
12:33
linh
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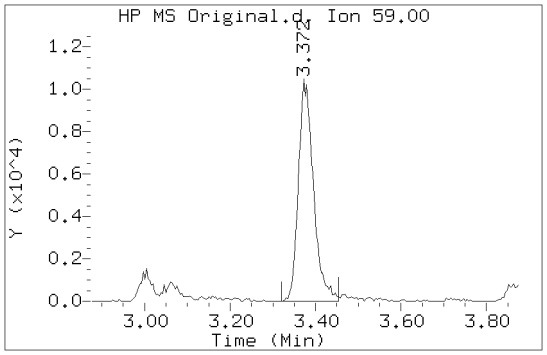
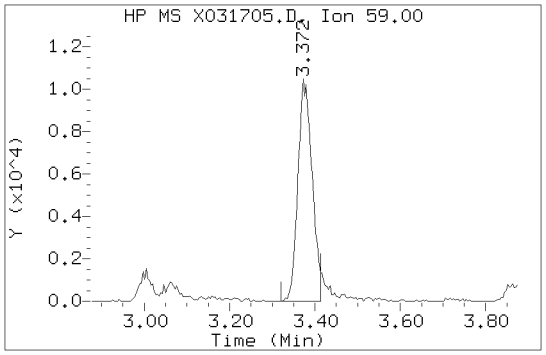


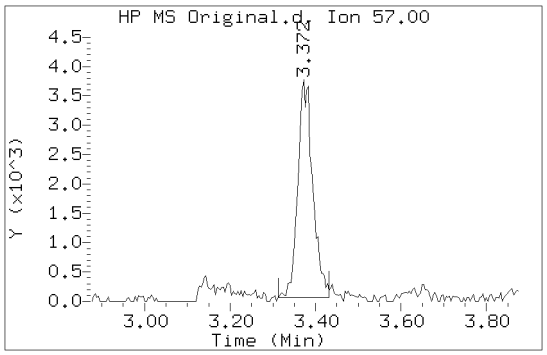
AFTER

MASS
59
AREA
24578
HEIGHT
10481
30-Mar-2023
12:41
linh
pham



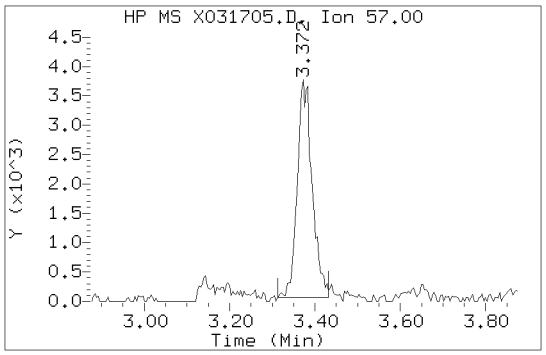
BEFORE

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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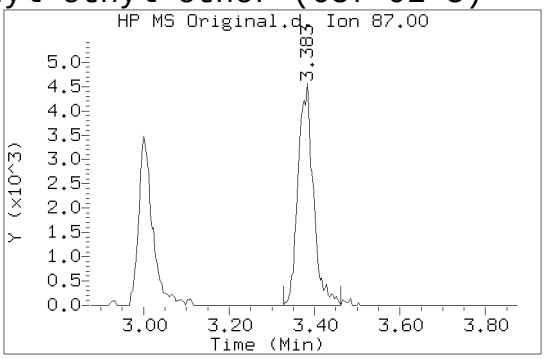
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

tert-Butyl ethyl ether (637-92-3)

Reason Code:

BEFORE

MASS
87
AREA
11488
HEIGHT
4560
30-Mar-2023
12:33
linh
pham



AFTER

MASS
87
AREA
11488
HEIGHT
4560
30-Mar-2023
12:41
linh
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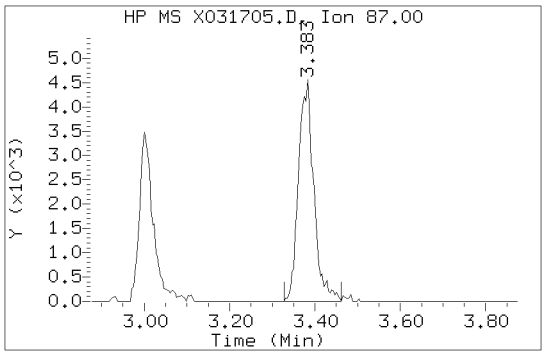

tert-Amyl alcohol (75-85-4)

Reason Code:

BEFORE

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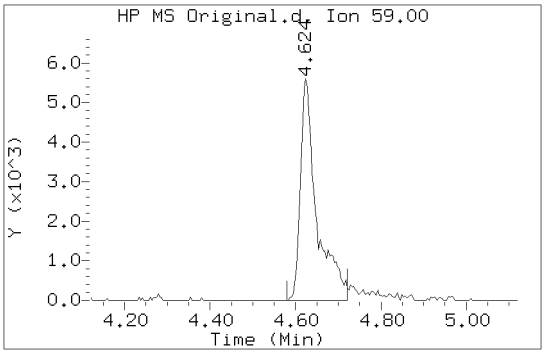
59
AREA
15126
HEIGHT
5602
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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AREA
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5602
30-Mar-2023
12:41
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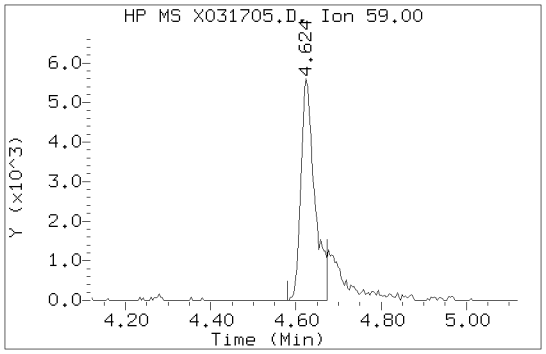

BEFORE

MASS
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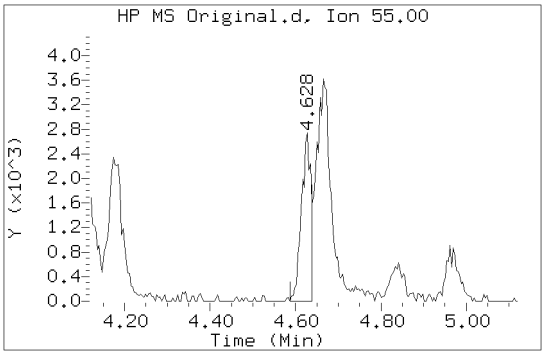
2742
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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AREA
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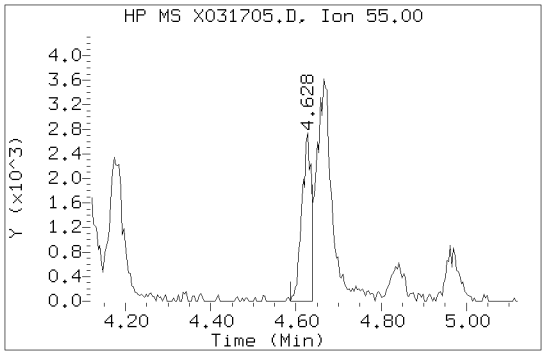
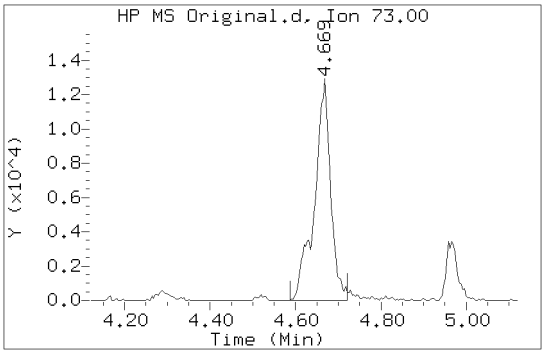
HEIGHT
2742
30-Mar-2023
12:41
linh
pham



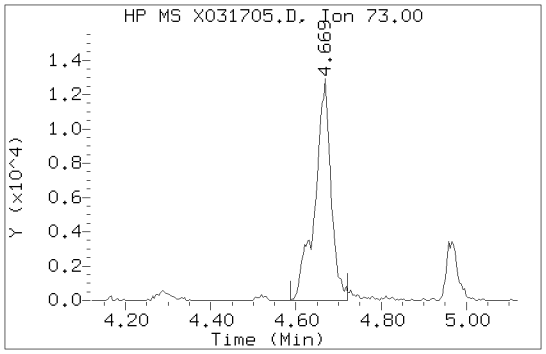
BEFORE

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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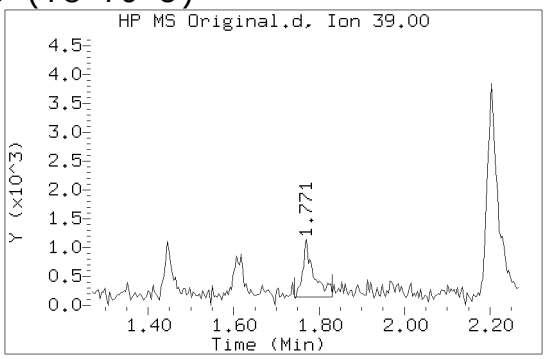
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

Isoprene (78-79-5)

Reason Code:

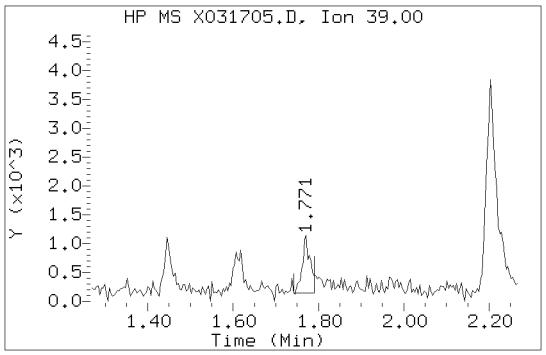
BEFORE

MASS
39
AREA
1808
HEIGHT
999
30-Mar-2023
12:33
linh
pham



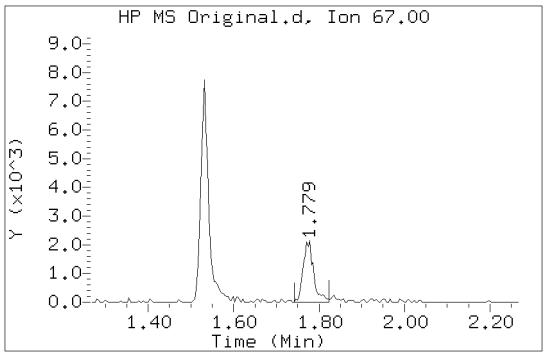
AFTER

MASS
39
AREA
1305
HEIGHT
999
30-Mar-2023
12:41
linh
pham



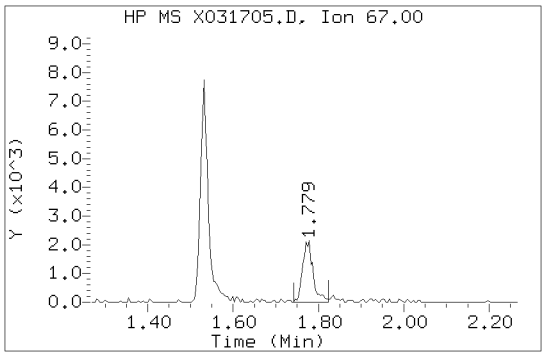
BEFORE

MASS
67
AREA
3708
HEIGHT
2160
30-Mar-2023
12:33
linh
pham



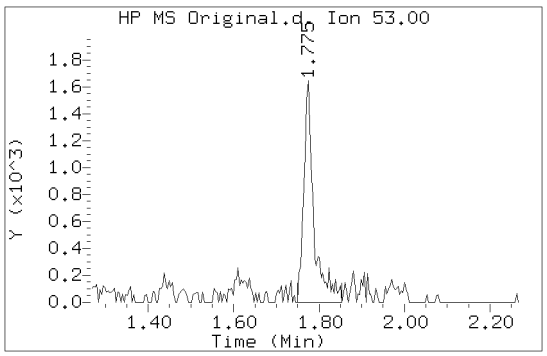
AFTER

MASS
67
AREA
3708
HEIGHT
2160
30-Mar-2023
12:41
linh
pham



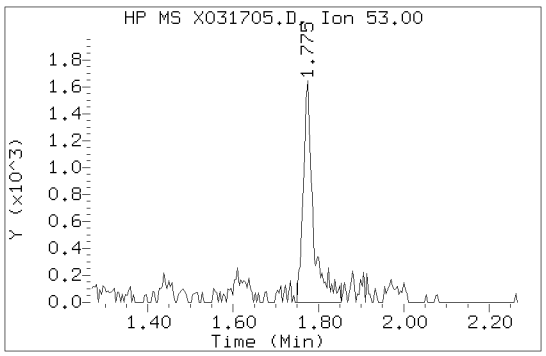
BEFORE

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

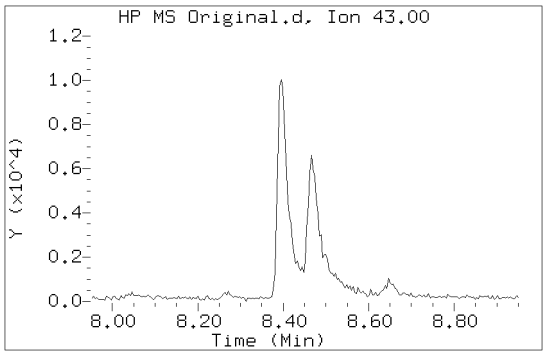


n-Amyl acetate (628-63-7)

Reason Code:

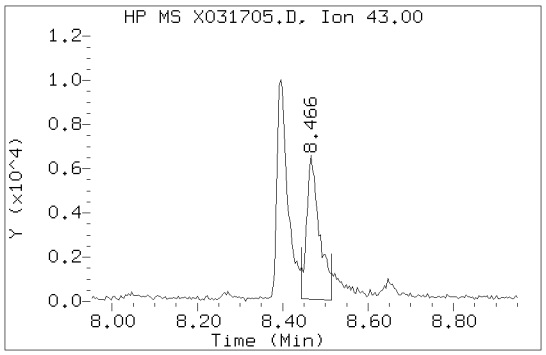
BEFORE

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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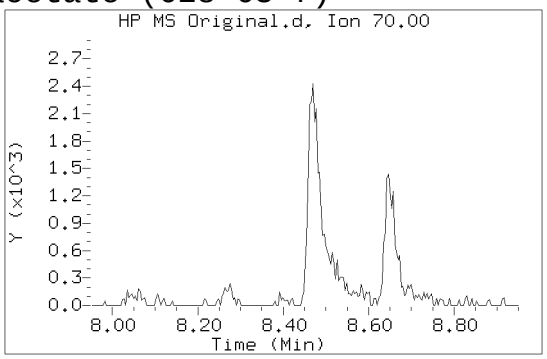
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

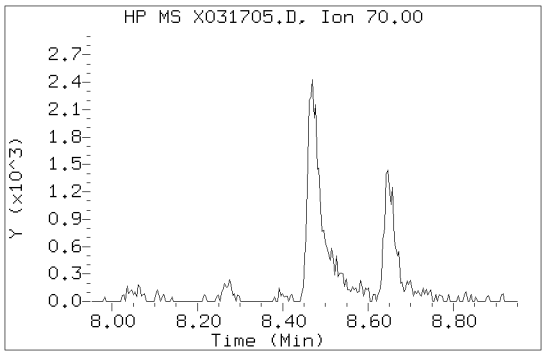
n-Amyl acetate (628-63-7)

Reason Code:

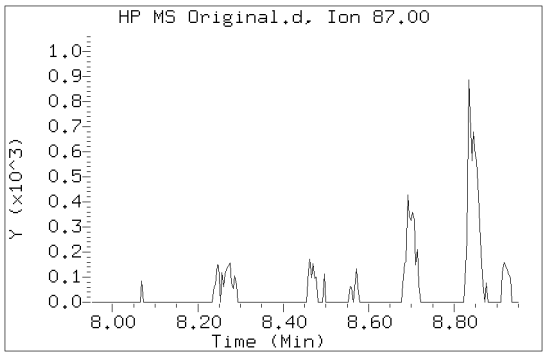
BEFORE
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



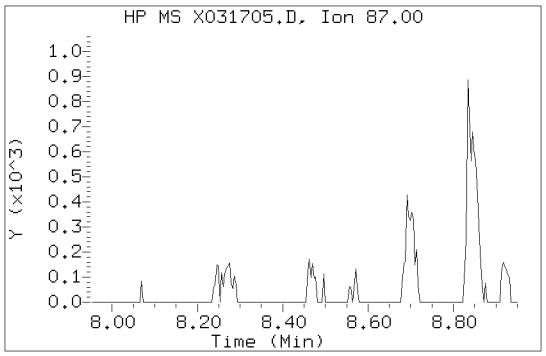
AFTER
MASS
70
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



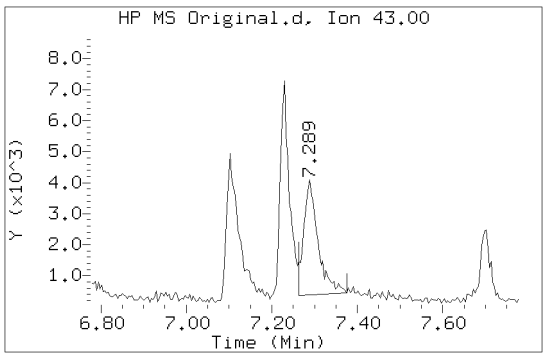
AFTER
MASS
87
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



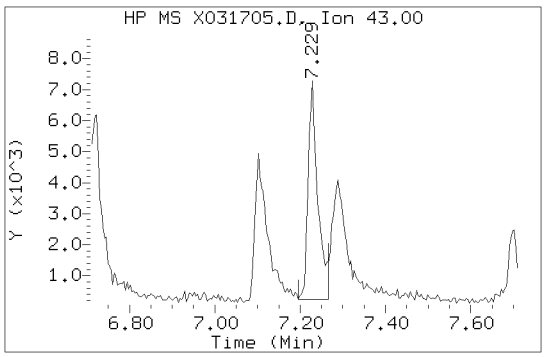
n-Butyl acetate (123-86-4)

Reason Code:

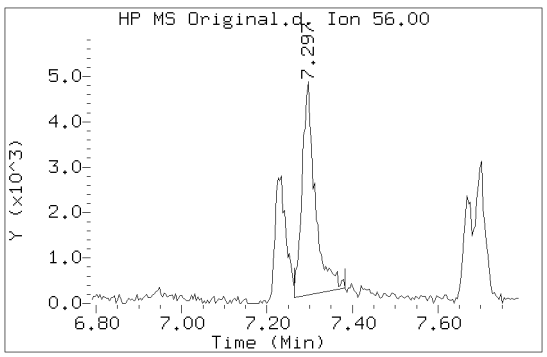
BEFORE
MASS
43
AREA
8781
HEIGHT
3708
30-Mar-2023
12:33
linh
pham



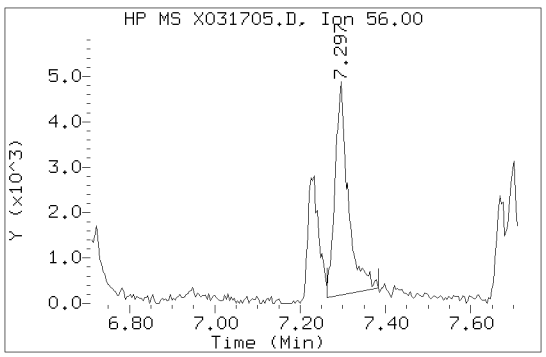
AFTER
MASS
43
AREA
11156
HEIGHT
7031
30-Mar-2023
12:41
linh
pham



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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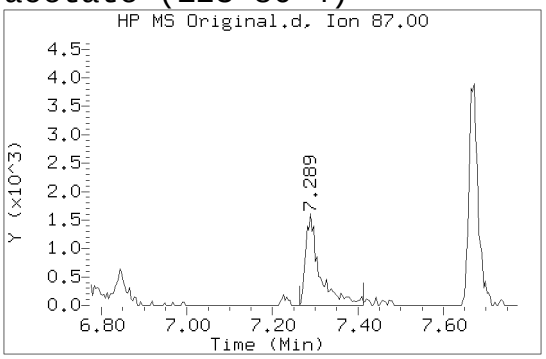
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

n-Butyl acetate (123-86-4)

Reason Code:

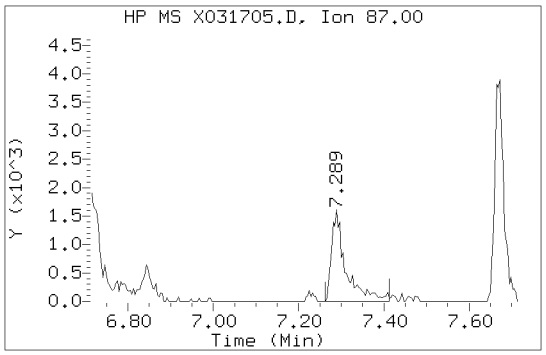
BEFORE

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

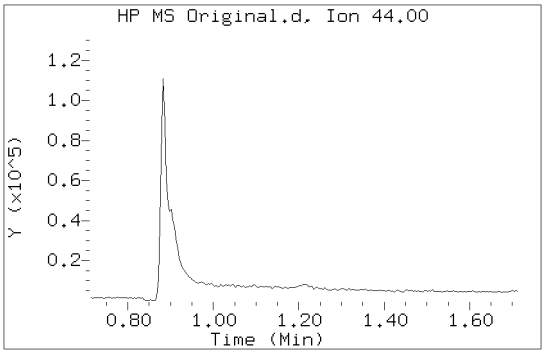


Acetaldehyde (75-07-0)

Reason Code:

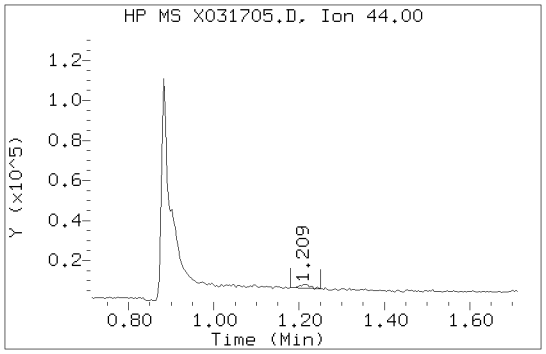
BEFORE

MASS
44
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



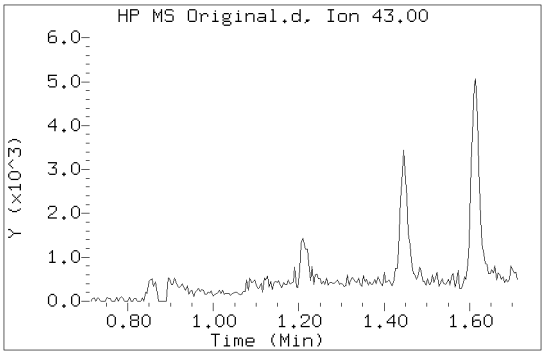
AFTER

MASS
44
AREA
3379
HEIGHT
1961
30-Mar-2023
12:41
linh
pham



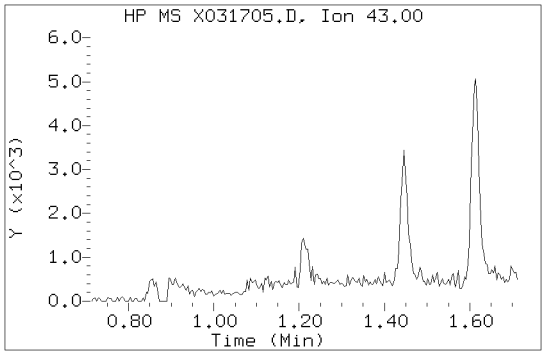
BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



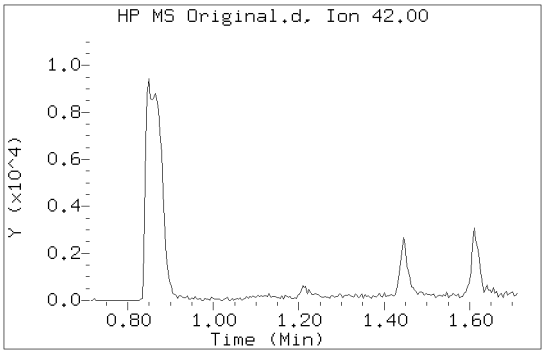
AFTER

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



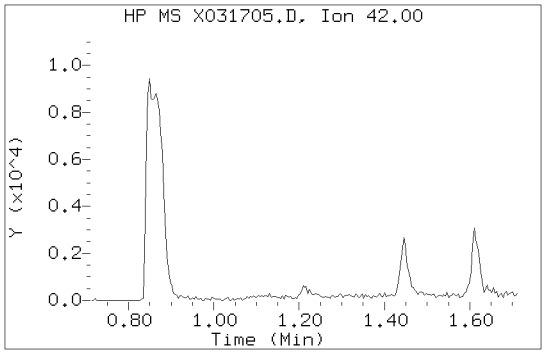
BEFORE

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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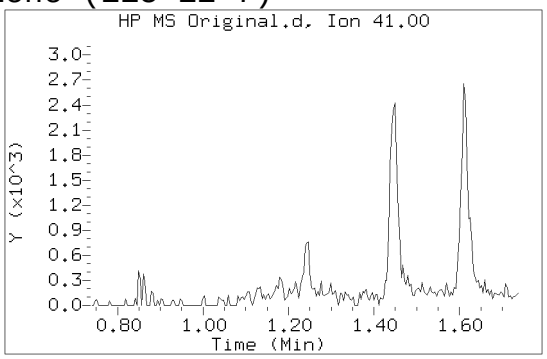
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

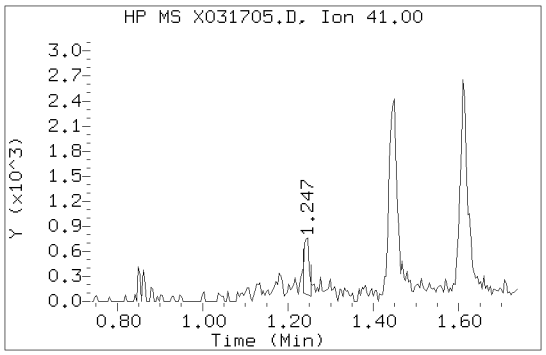
Isobutylene (115-11-7)

Reason Code:

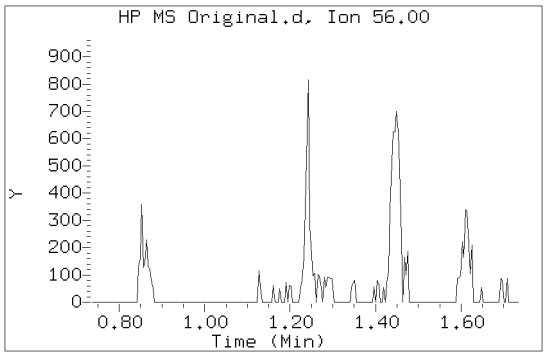
BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



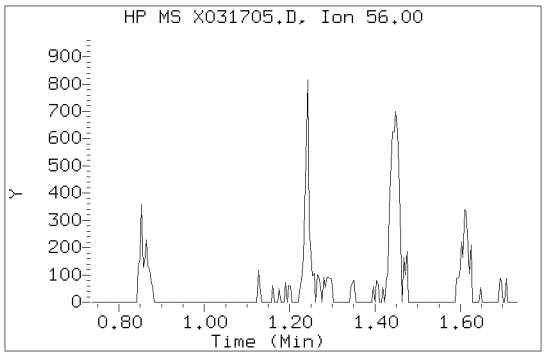
AFTER
MASS
41
AREA
607
HEIGHT
678
30-Mar-2023
12:41
linh
pham



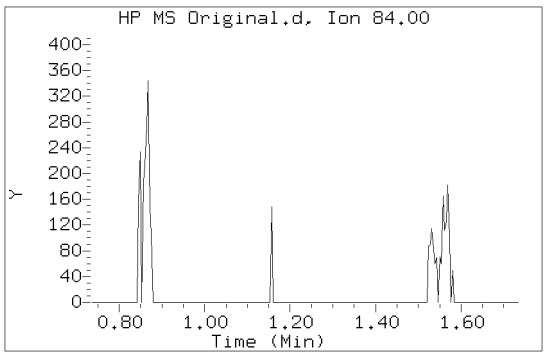
BEFORE
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



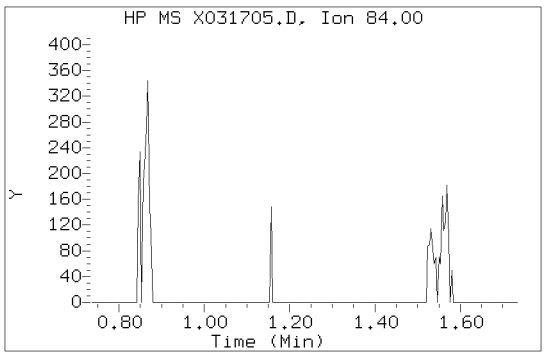
AFTER
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



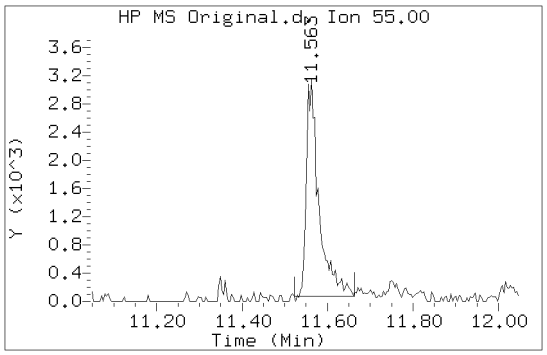
AFTER
MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



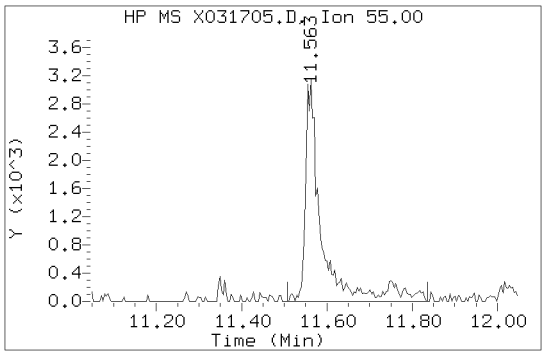
2-Ethylhexyl Acrylate (103-11-7)

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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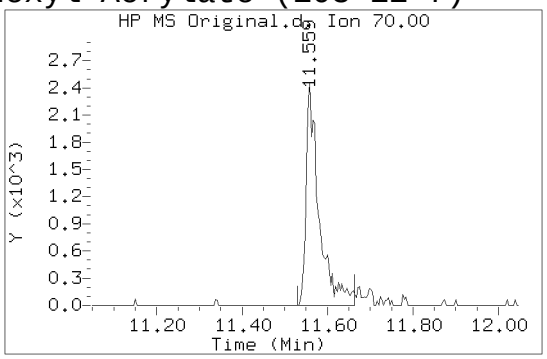
Inj Date : 17-MAR-2023 12:53
InstruID : voa6.i
LabSampID : VSTD002

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

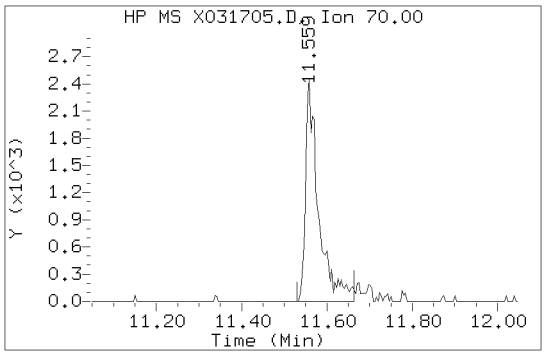
BEFORE

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

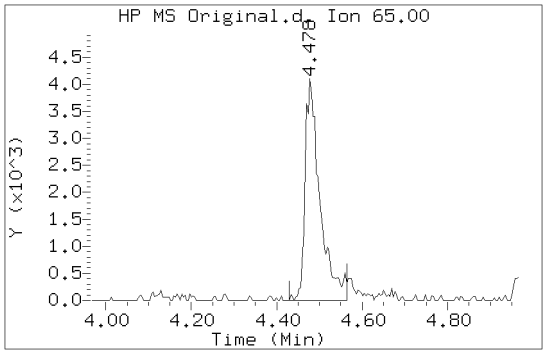


1,2-Dichloroethane-d4 (17060-07-0)

Reason Code:

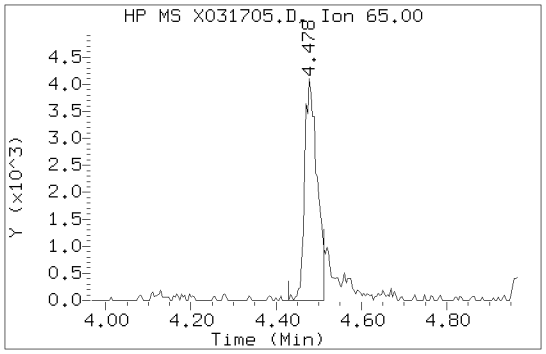
BEFORE

MASS
65
AREA
10036
HEIGHT
4103
30-Mar-2023
12:33
linh
pham



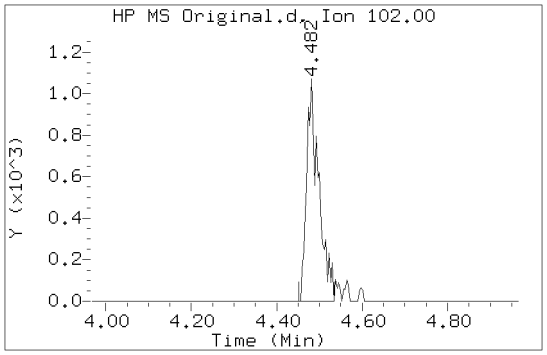
AFTER

MASS
65
AREA
8436
HEIGHT
4103
30-Mar-2023
12:41
linh
pham



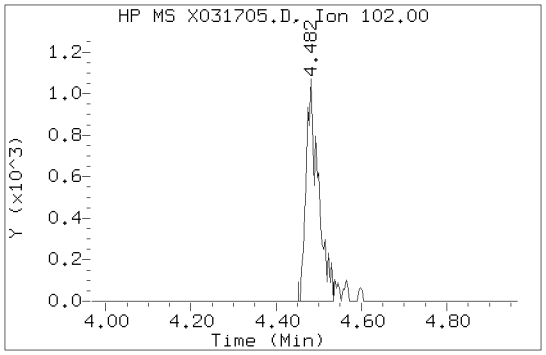
BEFORE

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



ALS Laboratory Group

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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)

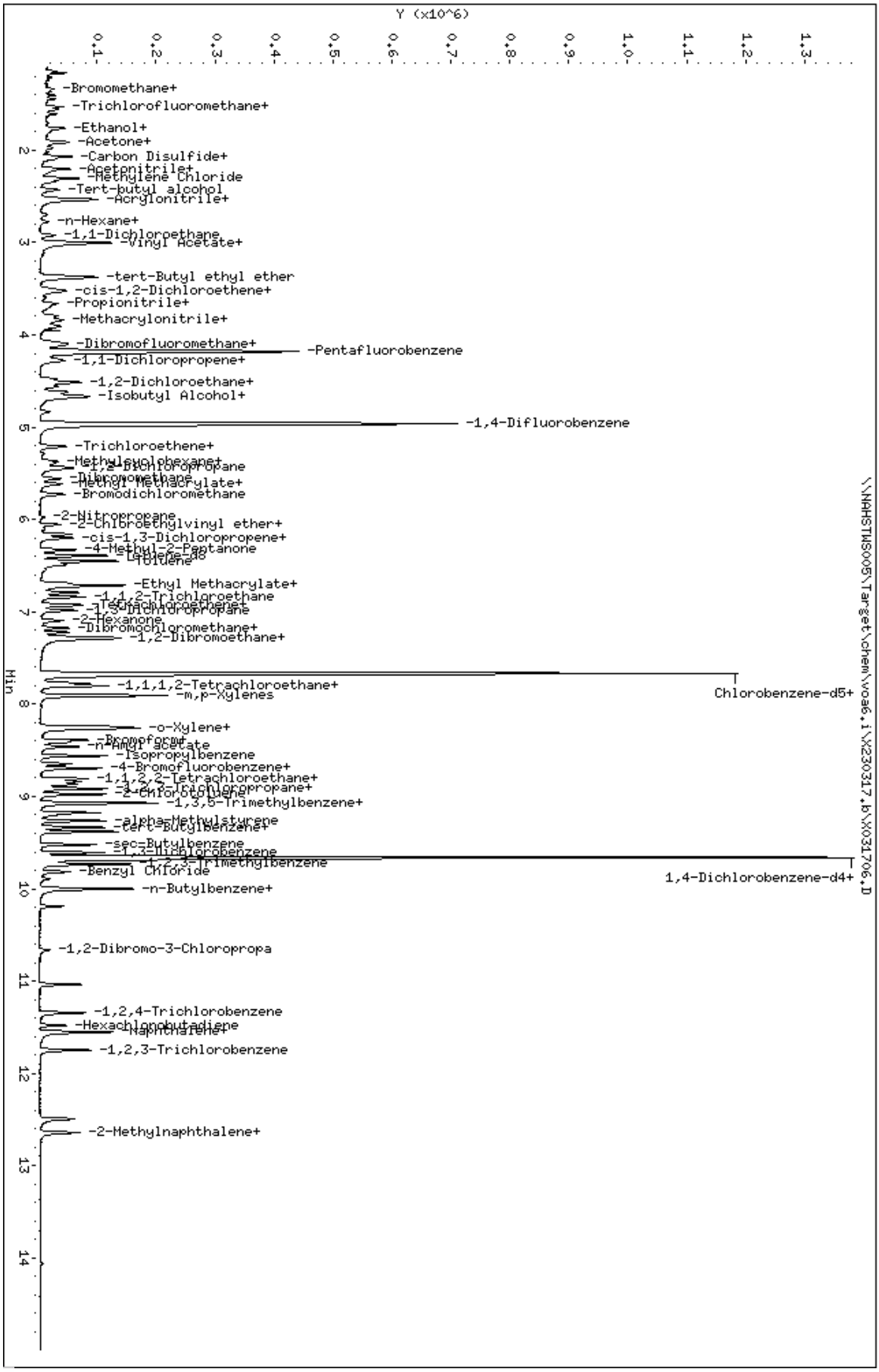
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	44588	5.00000	4.02(a)
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	62250	5.00000	4.36(a)
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	55893	5.00000	3.72(a)
82	p-Isopropyltoluene	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)	AMOUNTS 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
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LabSampID : VSTD005

Bromomethane (74-83-9)

BEFORE

MASS
94
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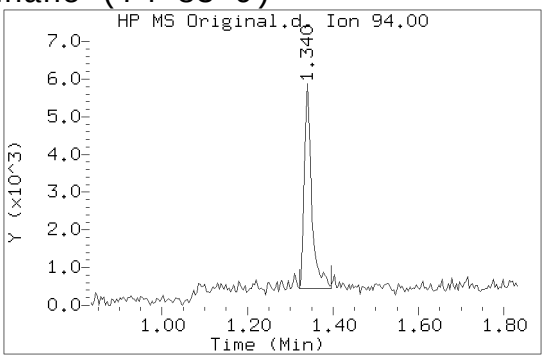
6797
HEIGHT
5434
30-Mar-2023
12:33
linh
pham



BEFORE

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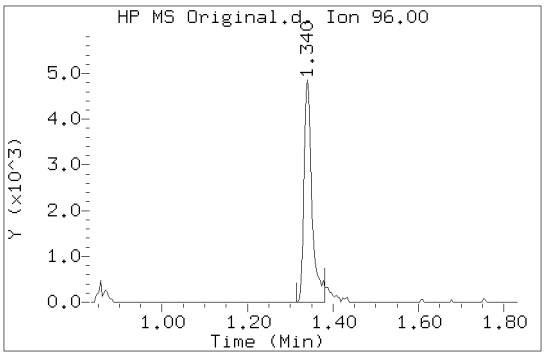
AREA
6541
HEIGHT
4858
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

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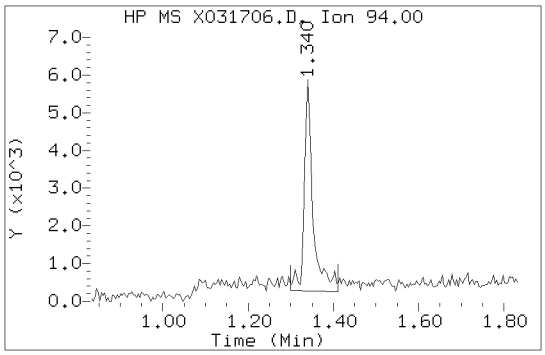
12:41
linh
pham



AFTER

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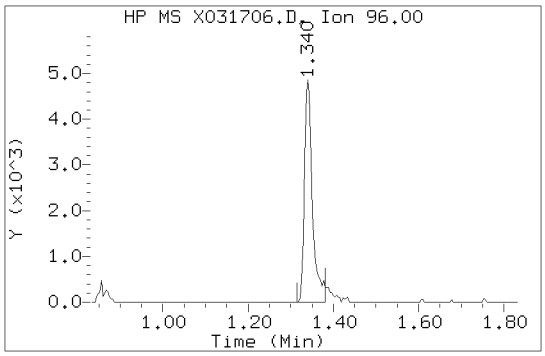

Chloroethane (75-00-3)

BEFORE

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AREA
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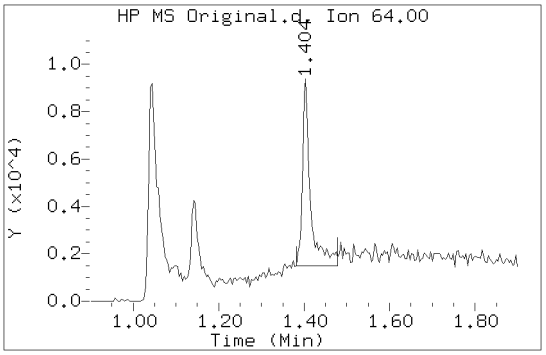
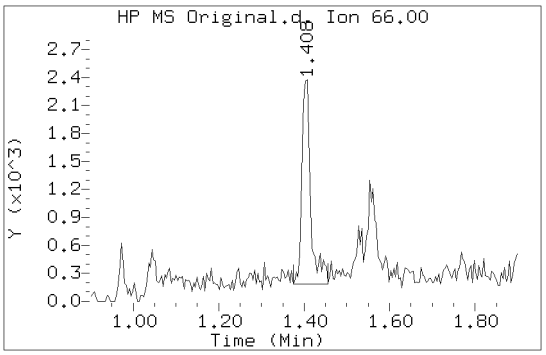
HEIGHT
7902
30-Mar-2023
12:33
linh
pham



BEFORE

MASS
66
AREA
3257
HEIGHT
2194
30-Mar-2023
12:33
linh
pham



Reason Code:

AFTER

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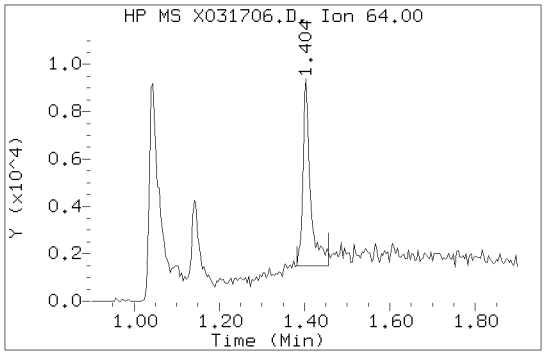

AFTER

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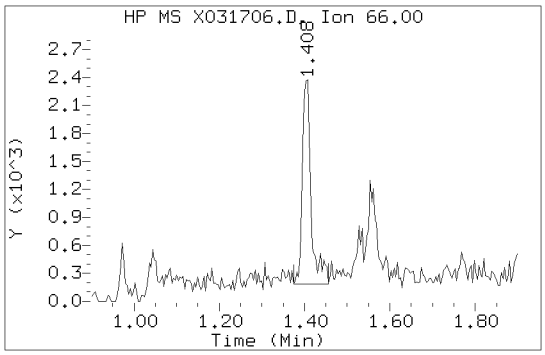
12:41
linh
pham



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Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Iodomethane (74-88-4)

Reason Code:

BEFORE

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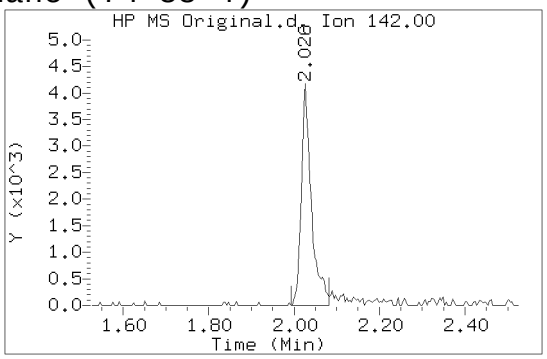
AREA
7012
HEIGHT
4175
30-Mar-2023
12:33
linh
pham



AFTER

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AREA
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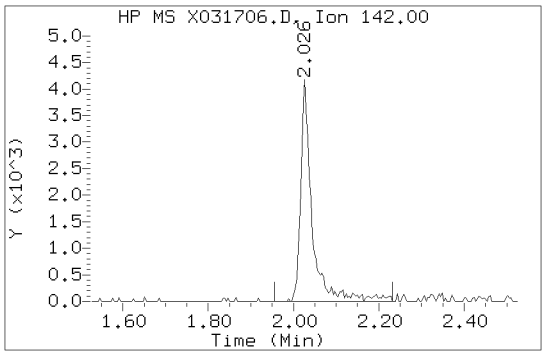
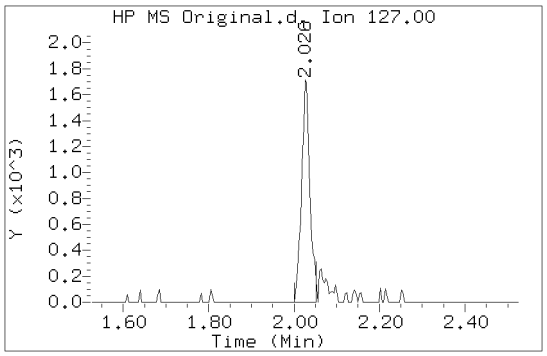
HEIGHT
4175
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
127
AREA
2404
HEIGHT
1714
30-Mar-2023
12:33
linh
pham



AFTER

MASS
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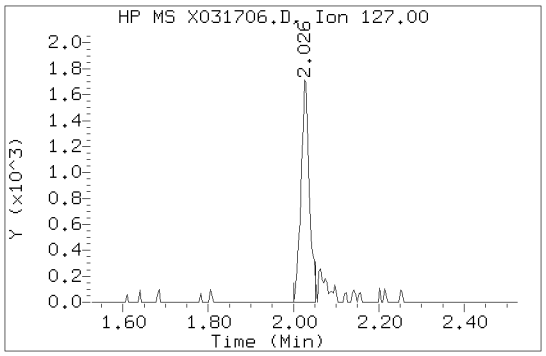
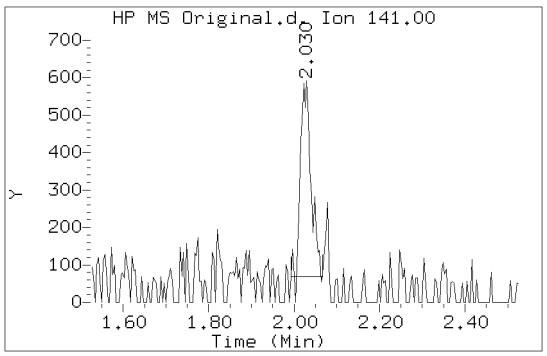
HEIGHT
1714
30-Mar-2023
12:41
linh
pham



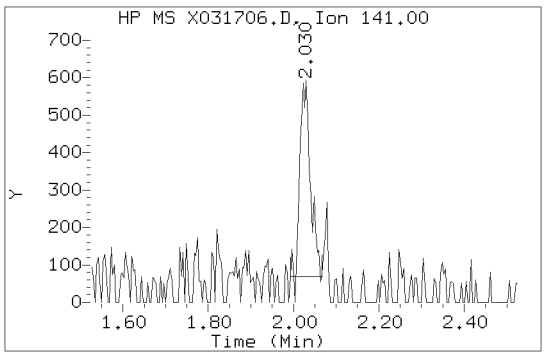
BEFORE

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

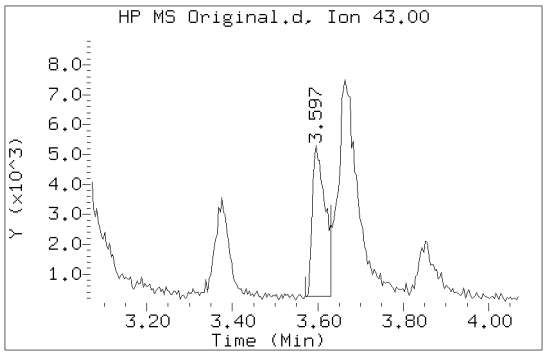


2-Butanone (78-93-3)

Reason Code:

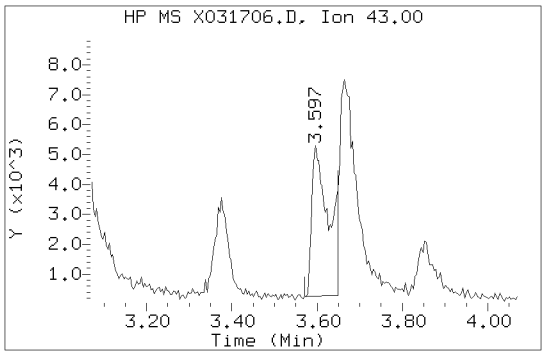
BEFORE

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



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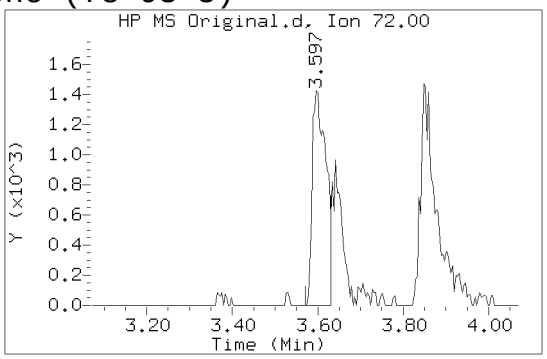
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

2-Butanone (78-93-3)

Reason Code:

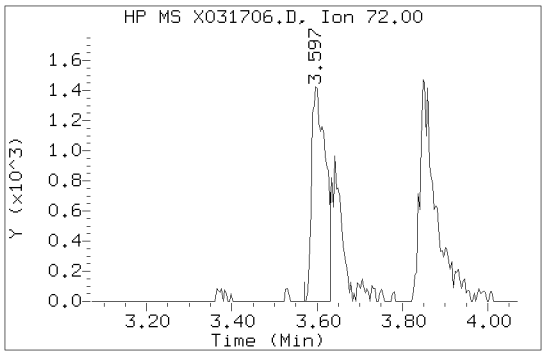
BEFORE

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

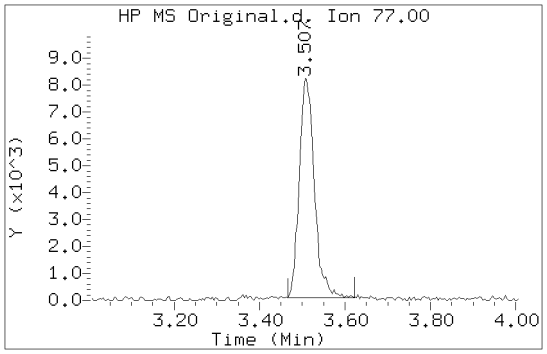


2,2-Dichloropropane (594-20-7)

Reason Code:

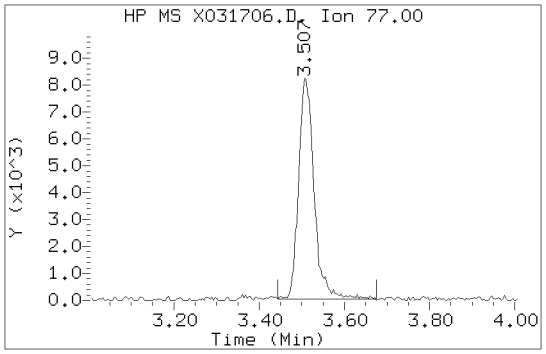
BEFORE

MASS
77
AREA
20361
HEIGHT
8142
30-Mar-2023
12:33
linh
pham



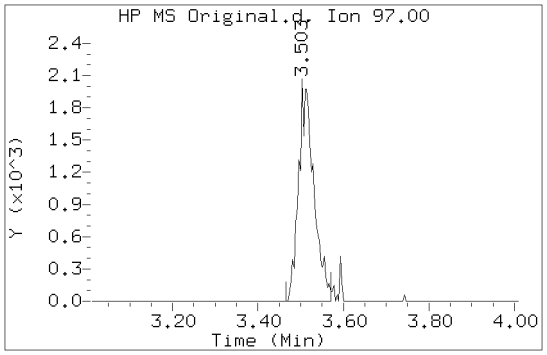
AFTER

MASS
77
AREA
21125
HEIGHT
8195
30-Mar-2023
12:41
linh
pham



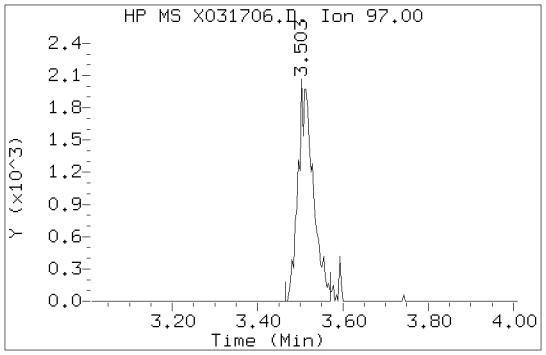
BEFORE

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

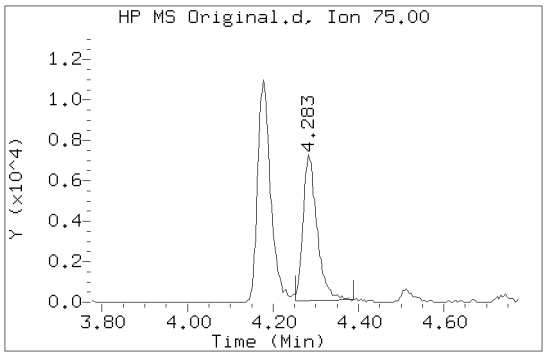


1,1-Dichloropropene (563-58-6)

Reason Code:

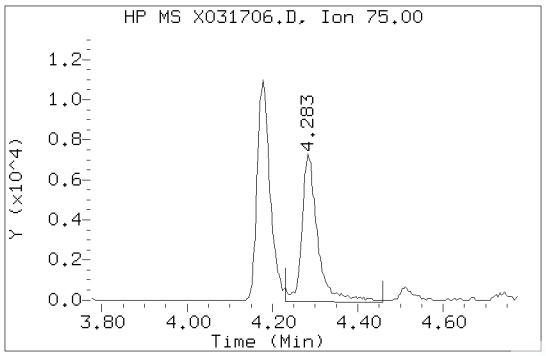
BEFORE

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

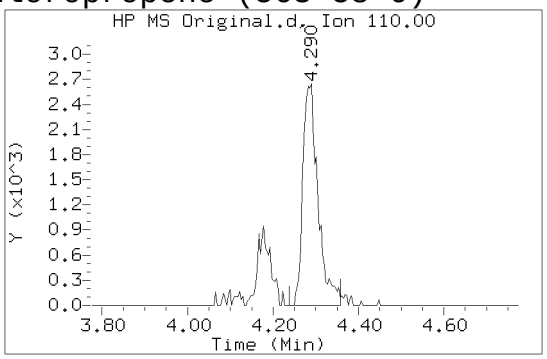


Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031706.D
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

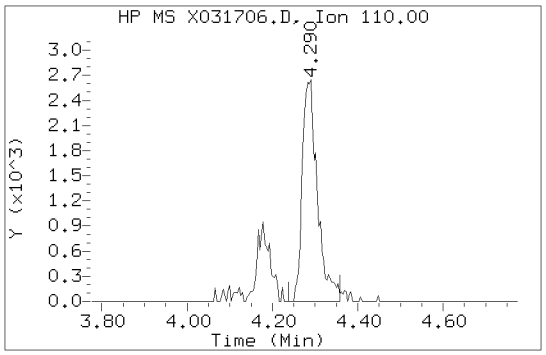
1,1-Dichloropropene (563-58-6)

Reason Code:

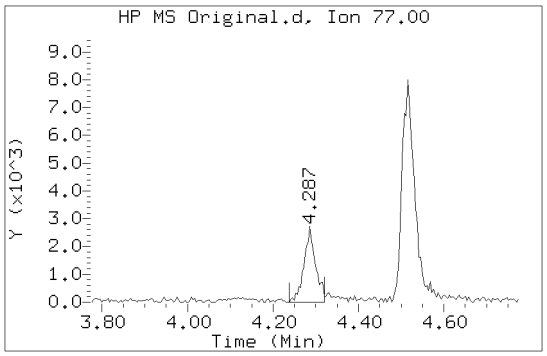
BEFORE
MASS
110
AREA
6613
HEIGHT
2648
30-Mar-2023
12:33
linh
pham



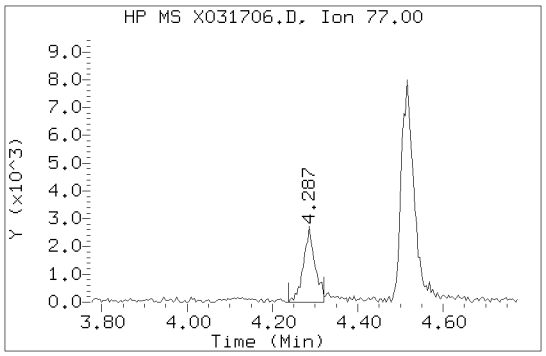
AFTER
MASS
110
AREA
6613
HEIGHT
2648
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
77
AREA
5175
HEIGHT
2721
30-Mar-2023
12:33
linh
pham



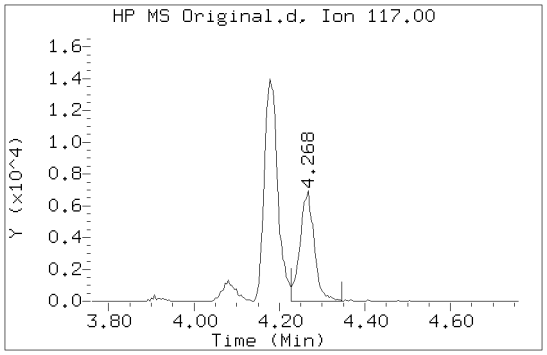
AFTER
MASS
77
AREA
5175
HEIGHT
2721
30-Mar-2023
12:41
linh
pham



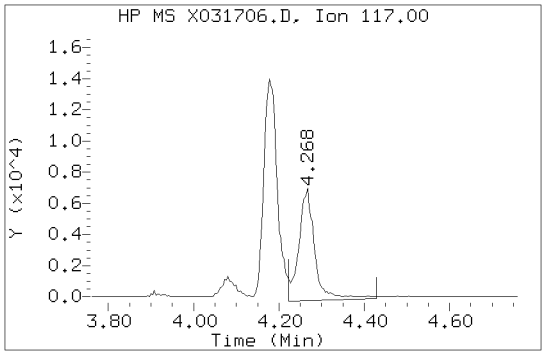
Carbon Tetrachloride (56-23-5)

Reason Code:

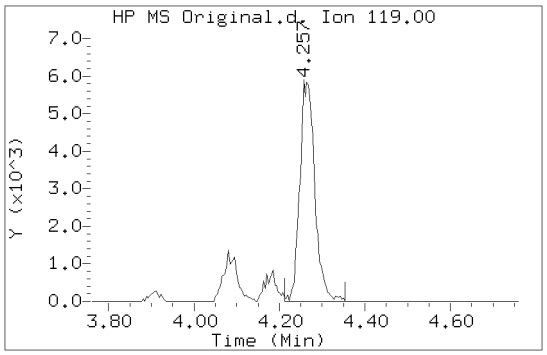
BEFORE
MASS
117
AREA
16351
HEIGHT
6971
30-Mar-2023
12:33
linh
pham



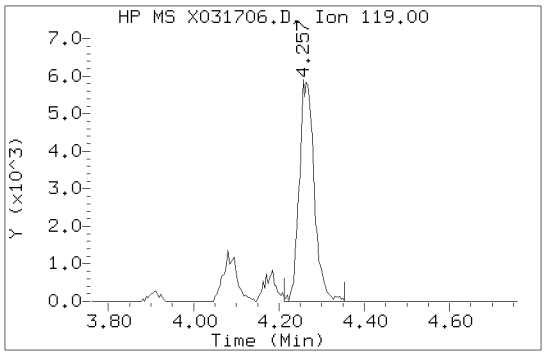
AFTER
MASS
117
AREA
19275
HEIGHT
7216
30-Mar-2023
12:41
linh
pham



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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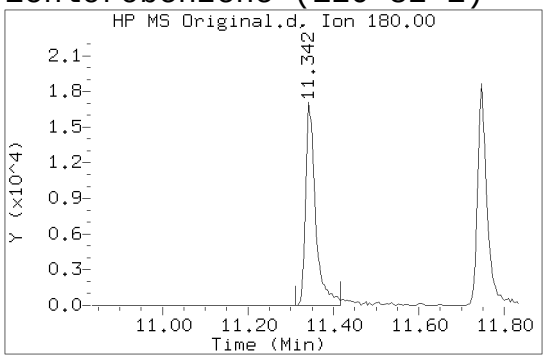
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

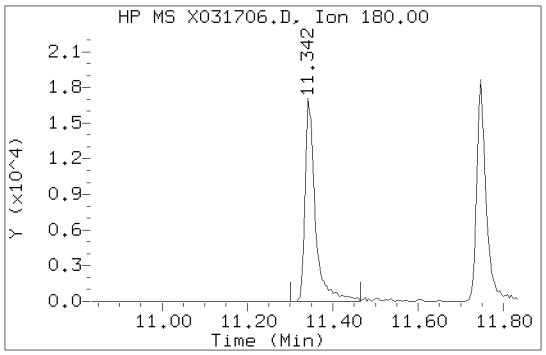
1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

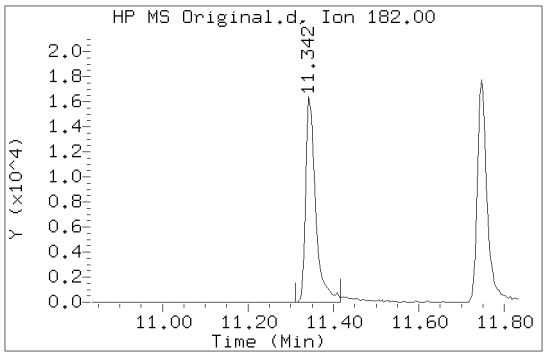
BEFORE
MASS
180
AREA
28022
HEIGHT
17112
30-Mar-2023
12:33
linh
pham



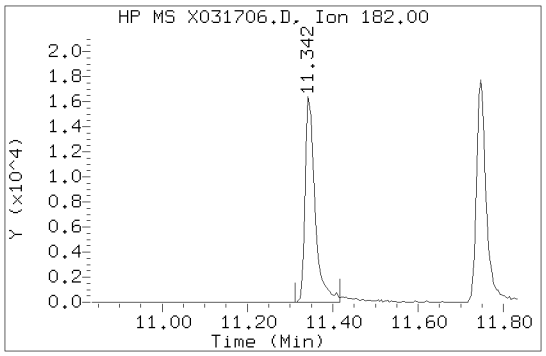
AFTER
MASS
180
AREA
28955
HEIGHT
17112
30-Mar-2023
12:41
linh
pham



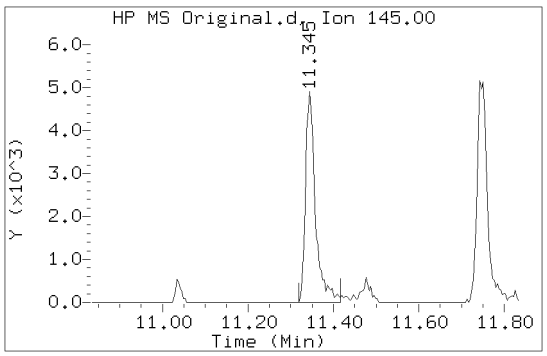
BEFORE
MASS
182
AREA
27031
HEIGHT
16424
30-Mar-2023
12:33
linh
pham



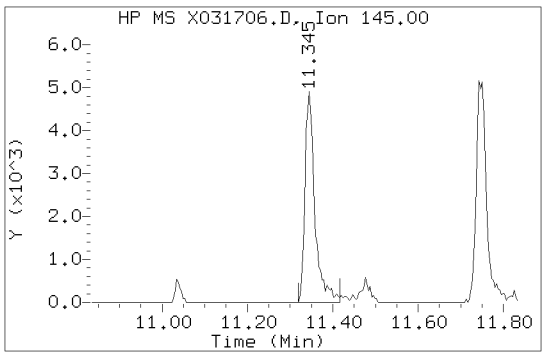
AFTER
MASS
182
AREA
27031
HEIGHT
16424
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
145
AREA
8041
HEIGHT
4909
30-Mar-2023
12:33
linh
pham



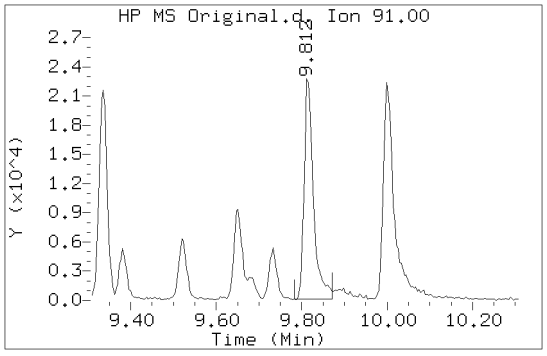
AFTER
MASS
145
AREA
8041
HEIGHT
4909
30-Mar-2023
12:41
linh
pham



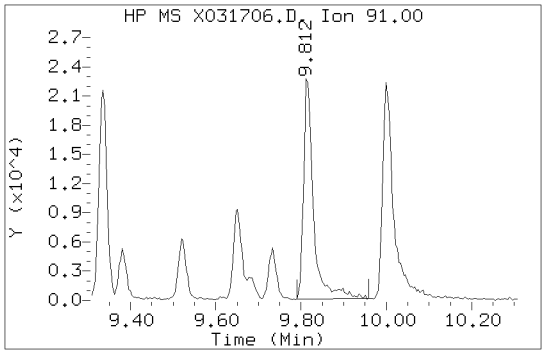
Benzyl Chloride (100-44-7)

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



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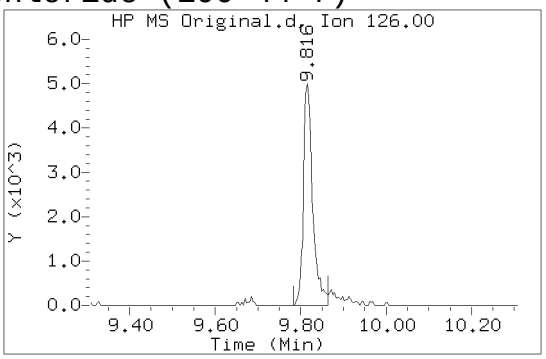
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

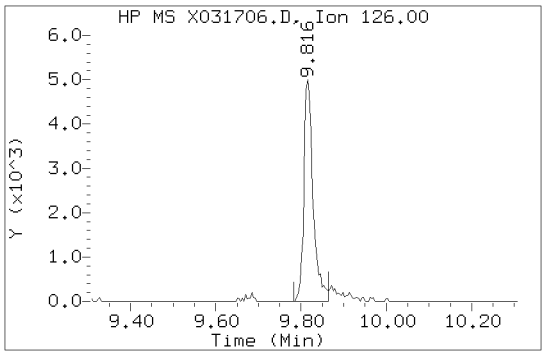
Benzyl Chloride (100-44-7)

BEFORE
MASS
126
AREA
7737
HEIGHT
5001
30-Mar-2023
12:33
linh
pham

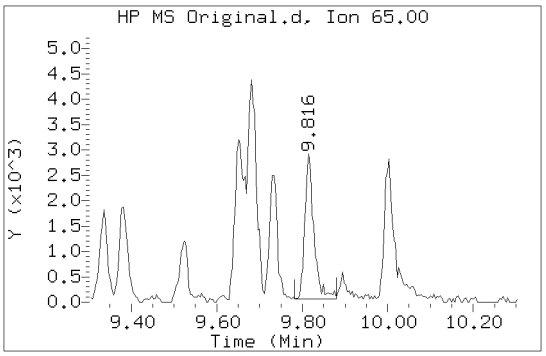


Reason Code:

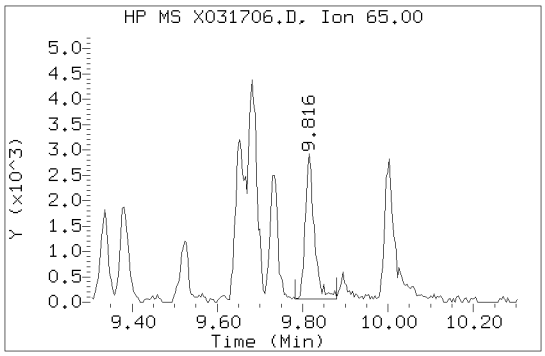
AFTER
MASS
126
AREA
7737
HEIGHT
5001
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
65
AREA
4286
HEIGHT
2873
30-Mar-2023
12:33
linh
pham

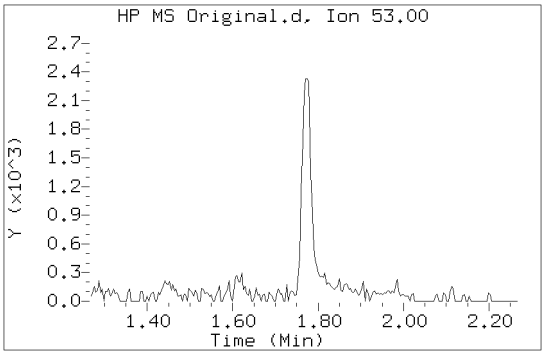


AFTER
MASS
65
AREA
4286
HEIGHT
2873
30-Mar-2023
12:41
linh
pham



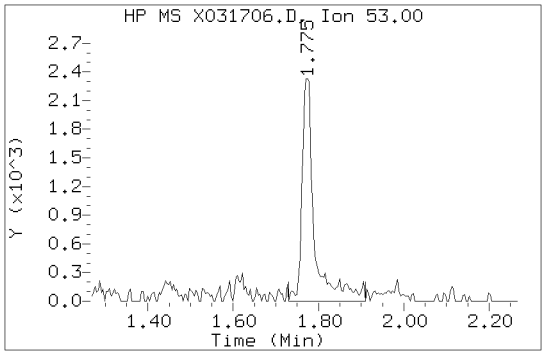
Chloroprene (126-99-8)

BEFORE
MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham

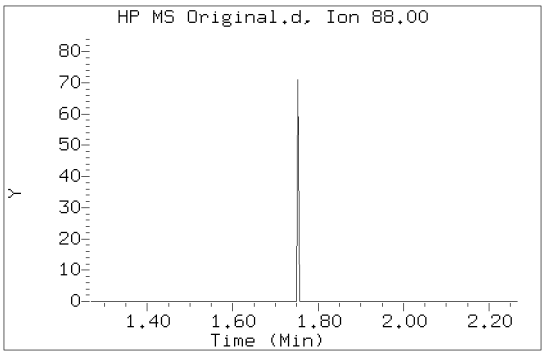


Reason Code:

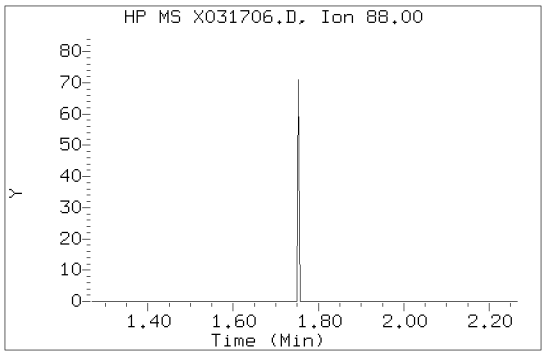
AFTER
MASS
53
AREA
4844
HEIGHT
2327
30-Mar-2023
12:41
linh
pham



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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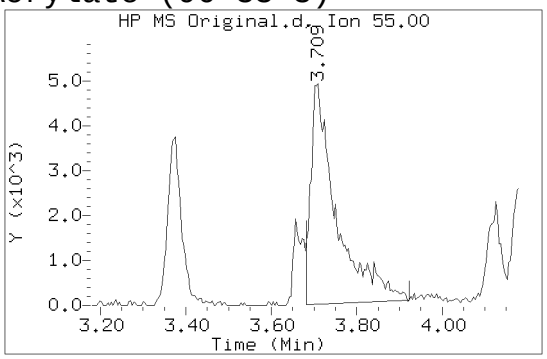
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Methyl Acrylate (96-33-3)

Reason Code:

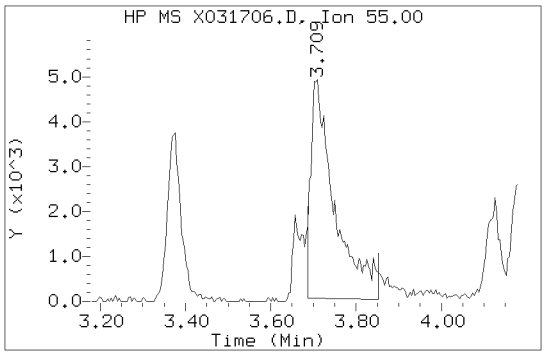
BEFORE

MASS
55
AREA
20445
HEIGHT
4902
30-Mar-2023
12:33
linh
pham



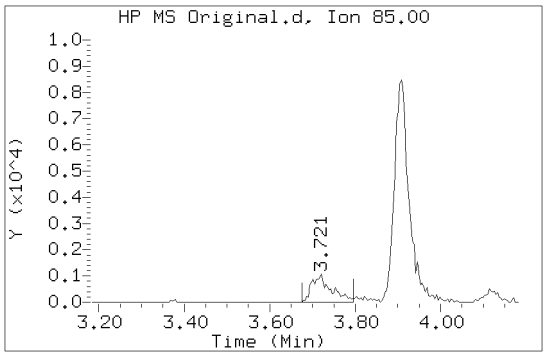
AFTER

MASS
55
AREA
19084
HEIGHT
4863
30-Mar-2023
12:41
linh
pham



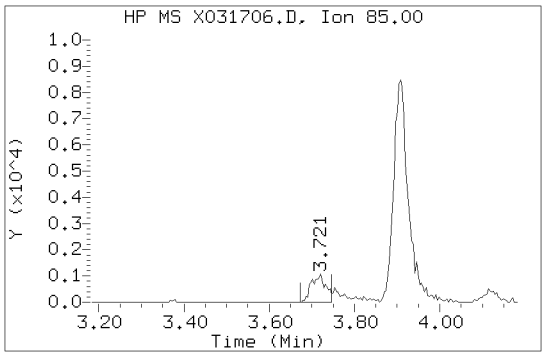
BEFORE

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

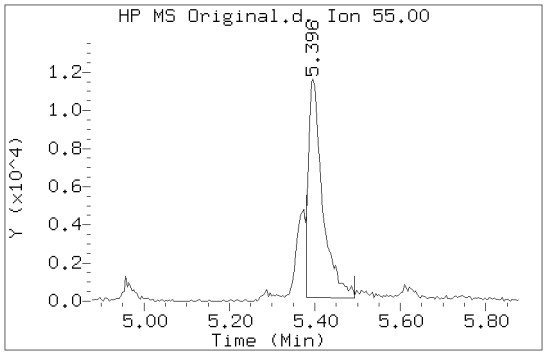


Ethyl Acrylate (140-88-5)

Reason Code:

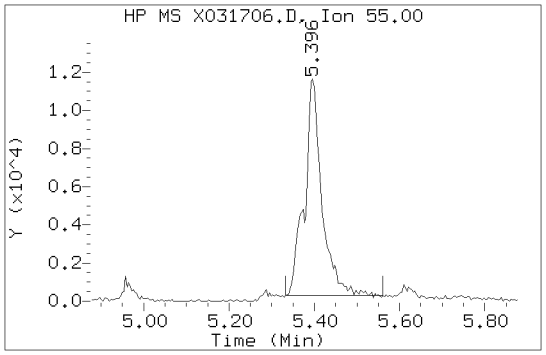
BEFORE

MASS
55
AREA
26481
HEIGHT
11465
30-Mar-2023
12:33
linh
pham



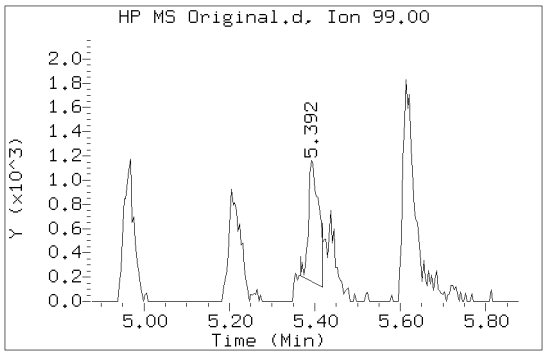
AFTER

MASS
55
AREA
32422
HEIGHT
11347
30-Mar-2023
12:41
linh
pham



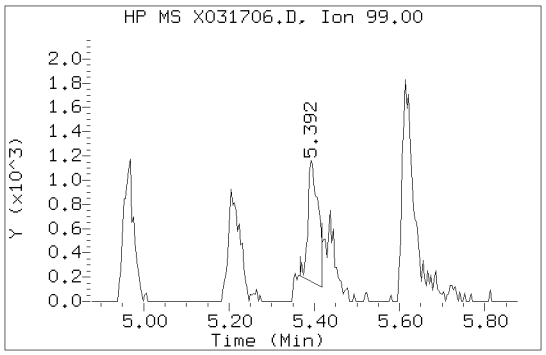
BEFORE

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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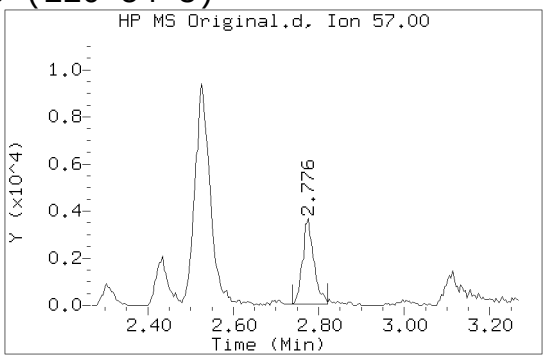
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

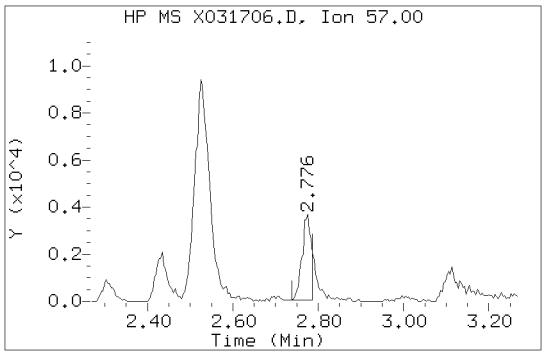
n-Hexane (110-54-3)

Reason Code:

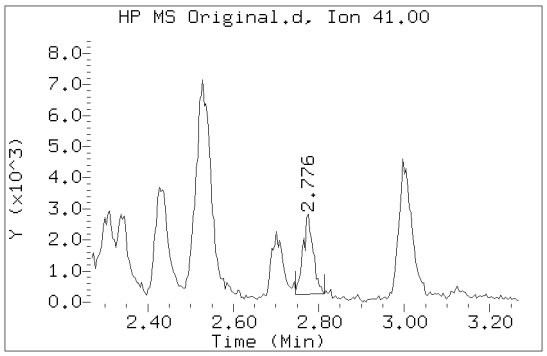
BEFORE
MASS
57
AREA
6747
HEIGHT
3646
30-Mar-2023
12:33
linh
pham



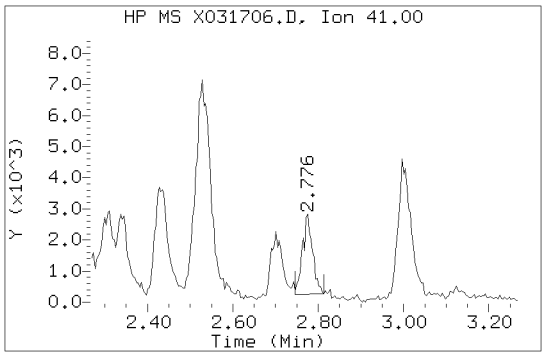
AFTER
MASS
57
AREA
5476
HEIGHT
3646
30-Mar-2023
12:41
linh
pham



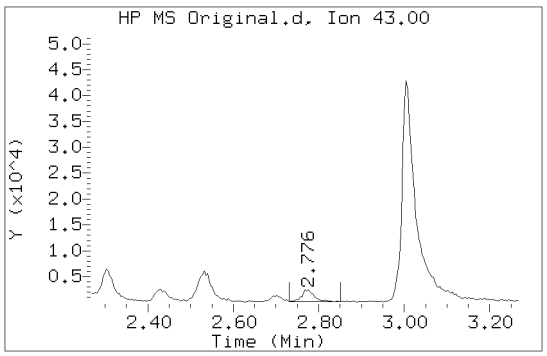
BEFORE
MASS
41
AREA
4280
HEIGHT
2559
30-Mar-2023
12:33
linh
pham



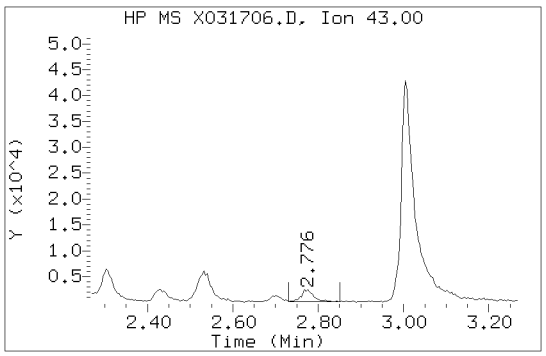
AFTER
MASS
41
AREA
4280
HEIGHT
2559
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
43
AREA
5026
HEIGHT
2432
30-Mar-2023
12:33
linh
pham



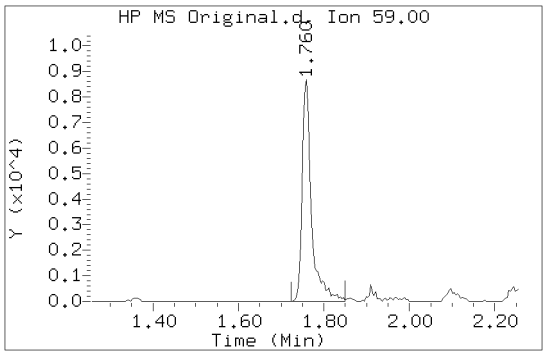
AFTER
MASS
43
AREA
5026
HEIGHT
2432
30-Mar-2023
12:41
linh
pham



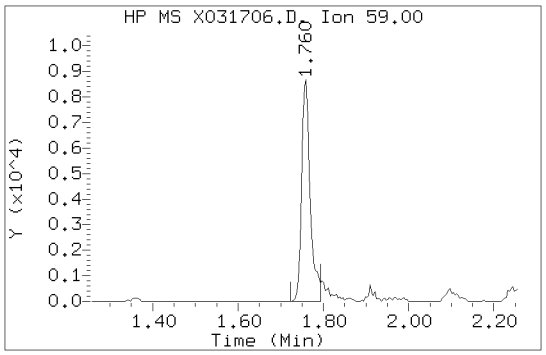
Diethyl ether (60-29-7)

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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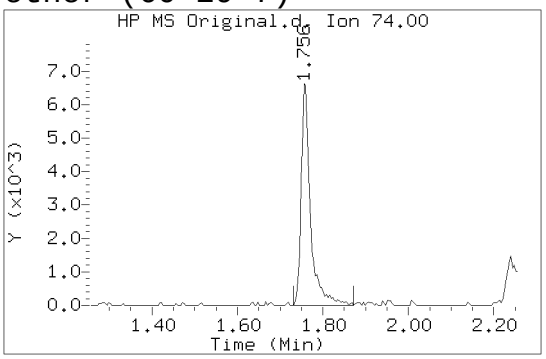
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Diethyl ether (60-29-7)

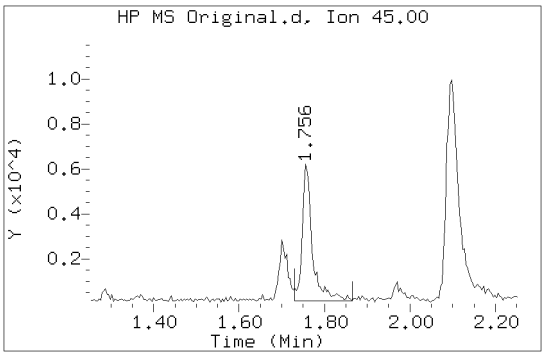
BEFORE

MASS
74
AREA
10195
HEIGHT
6625
30-Mar-2023
12:33
linh
pham



BEFORE

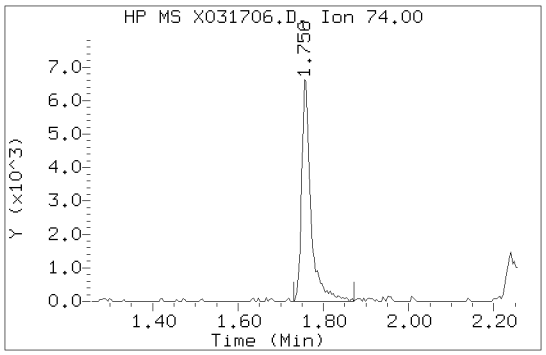
MASS
45
AREA
10306
HEIGHT
6079
30-Mar-2023
12:33
linh
pham



Reason Code:

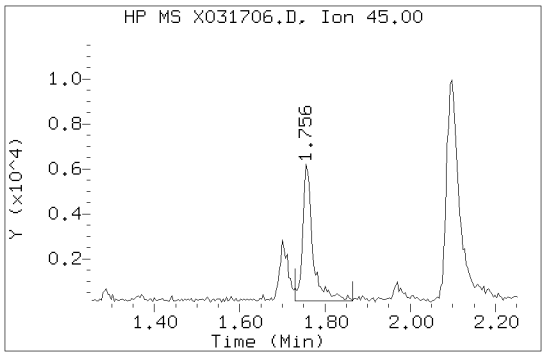
AFTER

MASS
74
AREA
10195
HEIGHT
6625
30-Mar-2023
12:41
linh
pham



AFTER

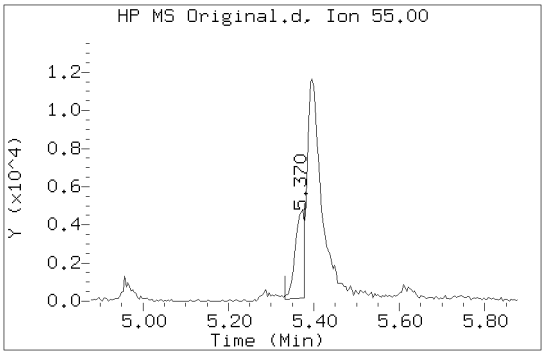
MASS
45
AREA
10306
HEIGHT
6079
30-Mar-2023
12:41
linh
pham



Methylcyclohexane (108-87-2)

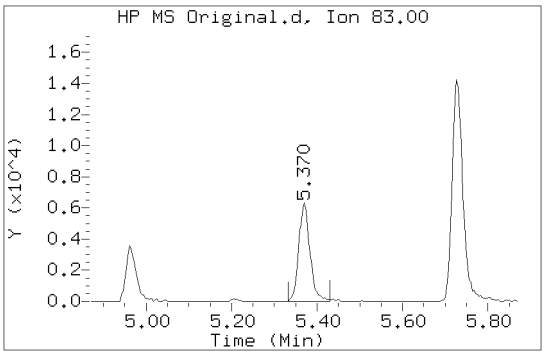
BEFORE

MASS
55
AREA
6879
HEIGHT
4485
30-Mar-2023
12:33
linh
pham



BEFORE

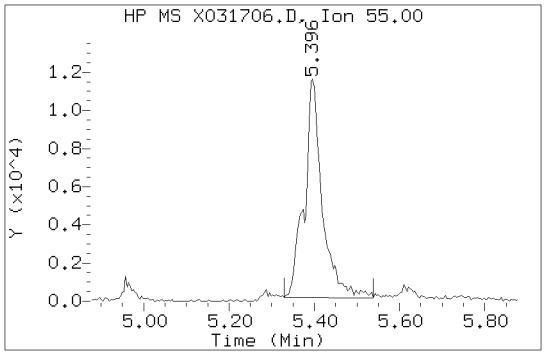
MASS
83
AREA
11711
HEIGHT
6349
30-Mar-2023
12:33
linh
pham



Reason Code:

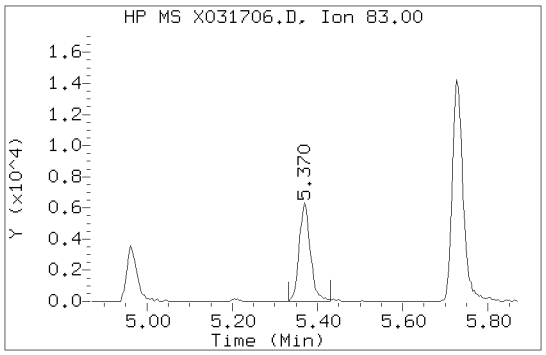
AFTER

MASS
55
AREA
33923
HEIGHT
11464
30-Mar-2023
12:41
linh
pham



AFTER

MASS
83
AREA
11711
HEIGHT
6349
30-Mar-2023
12:41
linh
pham



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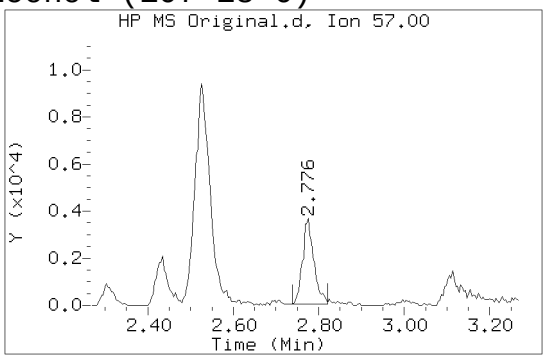
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

Allyl alcohol (107-18-6)

Reason Code:

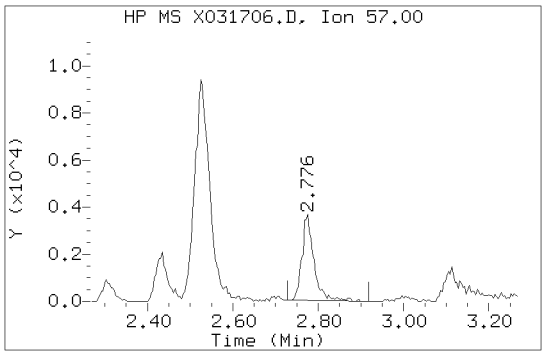
BEFORE

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

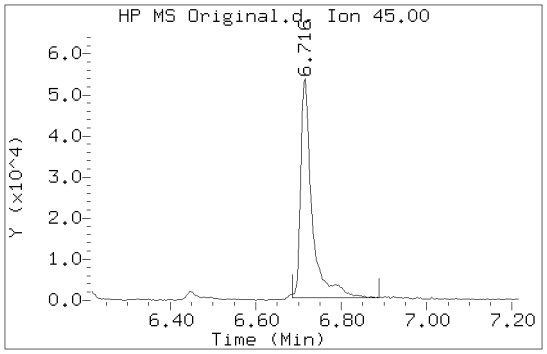


4-Methyl-2-pentanol (108-11-2)

Reason Code:

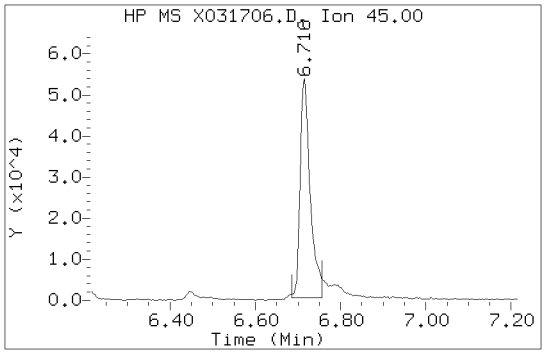
BEFORE

MASS
45
AREA
101213
HEIGHT
53312
30-Mar-2023
12:33
linh
pham



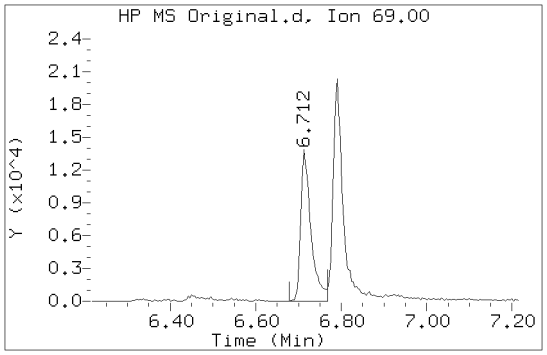
AFTER

MASS
45
AREA
90297
HEIGHT
53312
30-Mar-2023
12:41
linh
pham



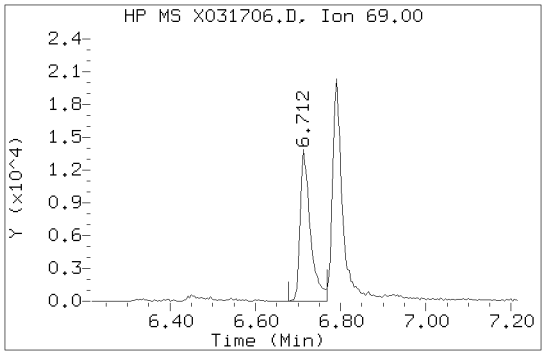
BEFORE

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

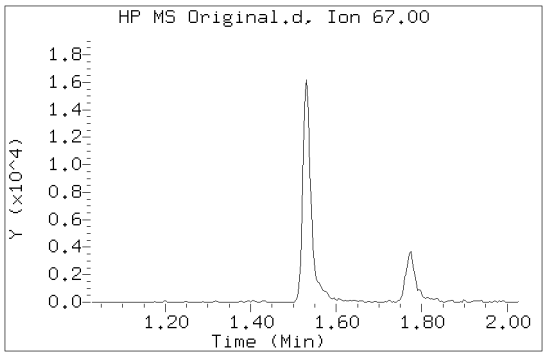


Dichlorofluoromethane (75-43-4)

Reason Code:

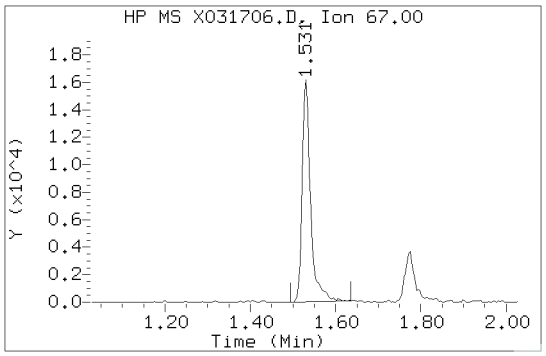
BEFORE

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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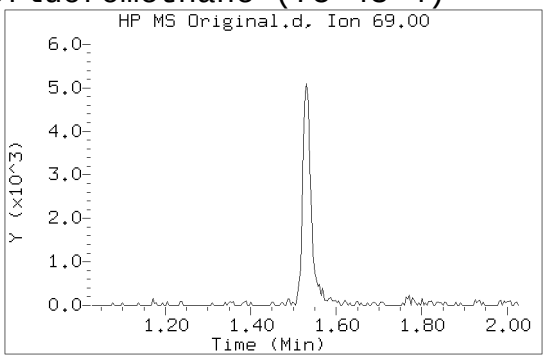
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

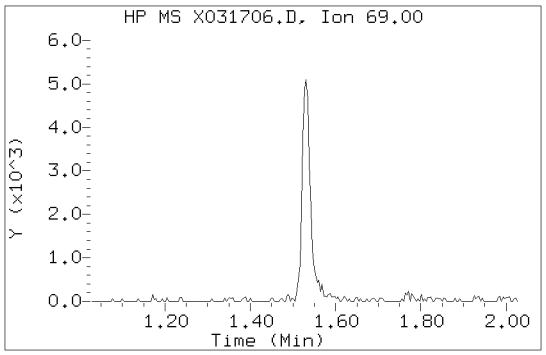
Dichlorofluoromethane (75-43-4)

Reason Code:

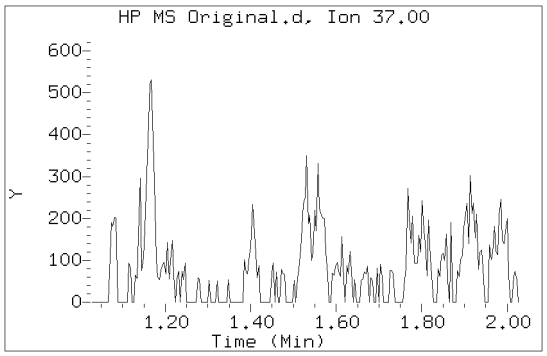
BEFORE
MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



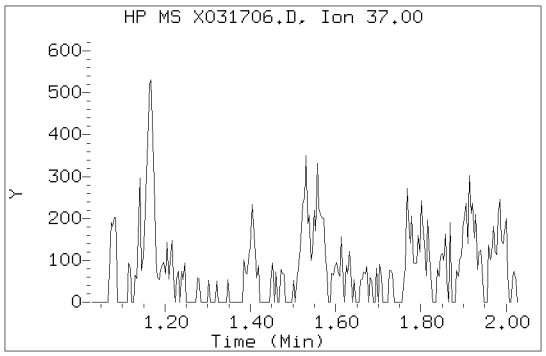
AFTER
MASS
69
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



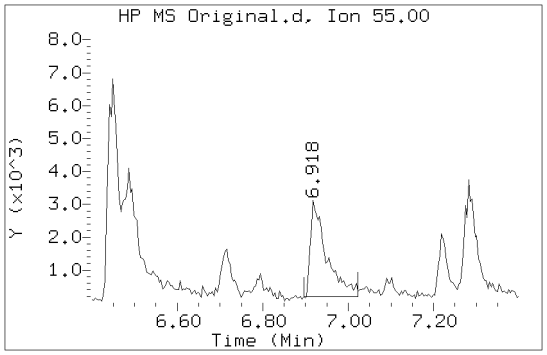
AFTER
MASS
37
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



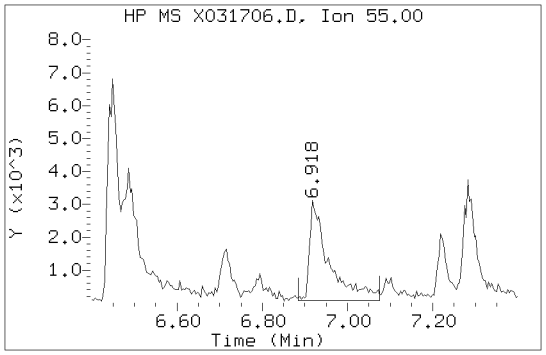
3-Methyl-1-butanol (123-51-3)

Reason Code:

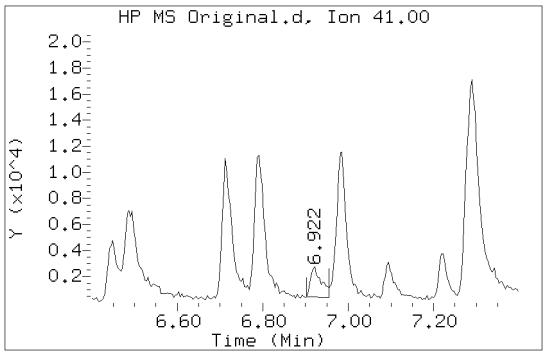
BEFORE
MASS
55
AREA
7748
HEIGHT
2940
30-Mar-2023
12:33
linh
pham



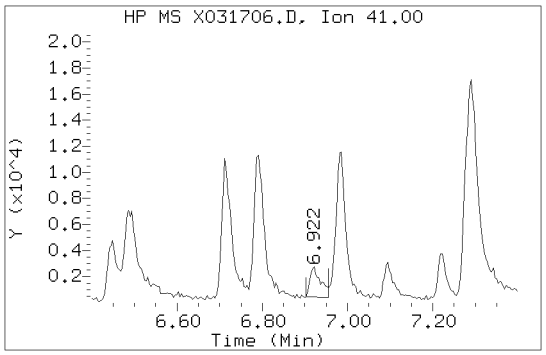
AFTER
MASS
55
AREA
9604
HEIGHT
3048
30-Mar-2023
12:41
linh
pham



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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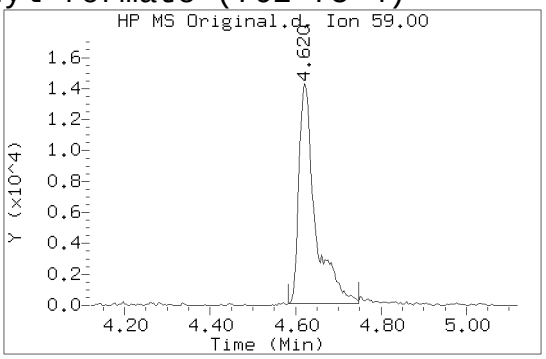
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

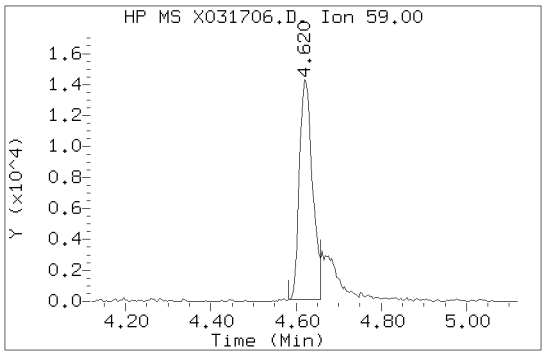
tert-Butyl formate (762-75-4)

Reason Code:

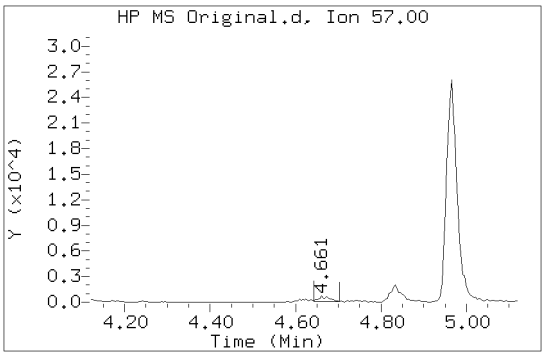
BEFORE
MASS
59
AREA
38602
HEIGHT
14207
30-Mar-2023
12:33
linh
pham



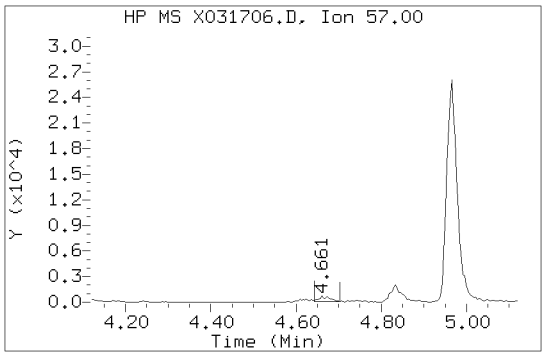
AFTER
MASS
59
AREA
30990
HEIGHT
14207
30-Mar-2023
12:41
linh
pham



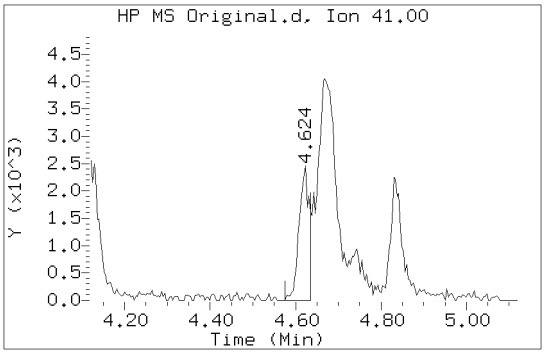
BEFORE
MASS
57
AREA
1147
HEIGHT
668
30-Mar-2023
12:33
linh
pham



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
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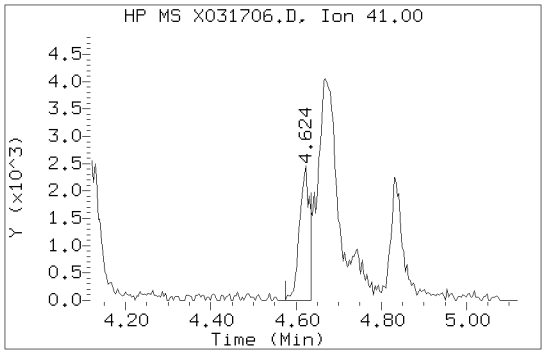

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
MASS
57
AREA
45819
HEIGHT
23547
30-Mar-2023
12:33
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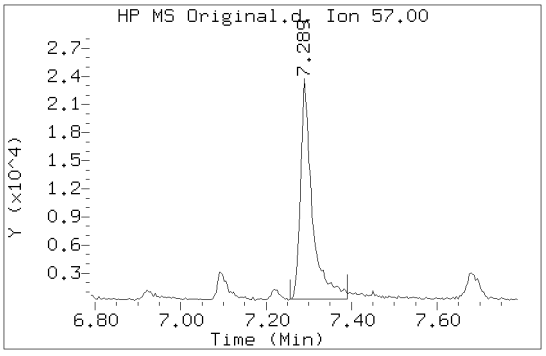

AFTER
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23667
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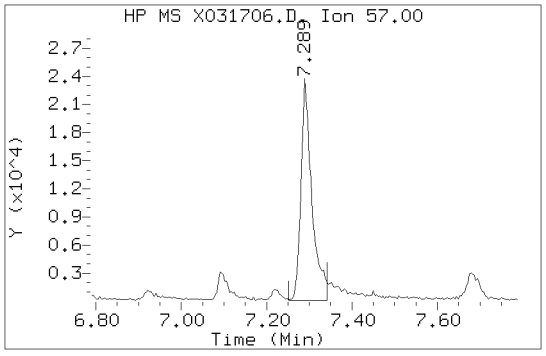

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Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE

MASS
67
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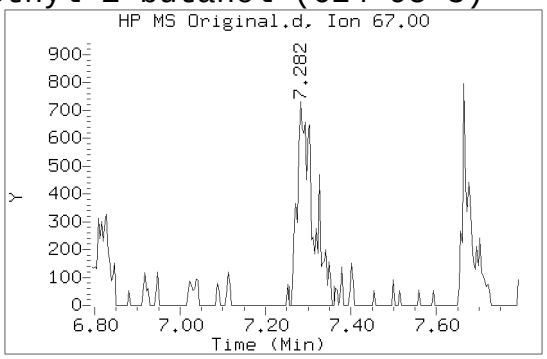
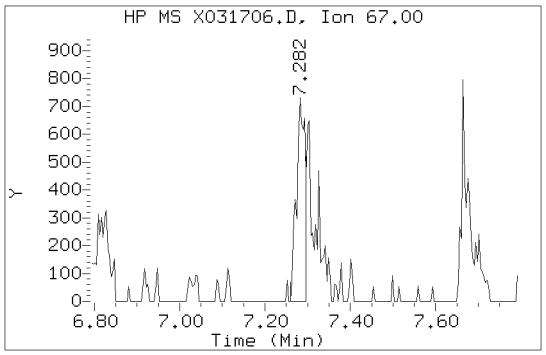
HEIGHT
732
30-Mar-2023
12:33
linh
pham



AFTER

MASS
67
AREA
1055
HEIGHT
732
30-Mar-2023
12:41
linh
pham



BEFORE

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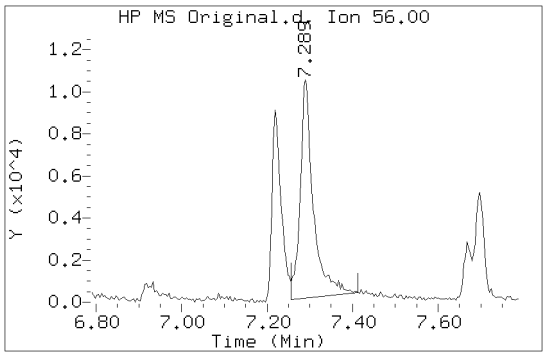

AFTER

MASS
56
AREA
22816
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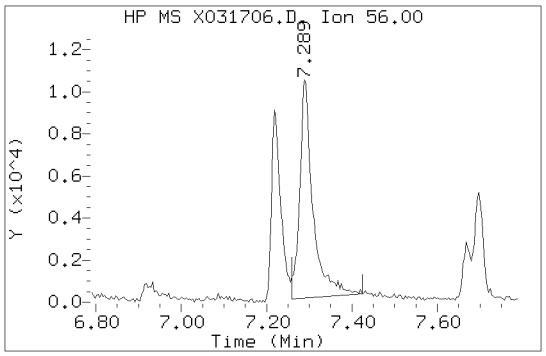
10362
30-Mar-2023
12:41
linh
pham

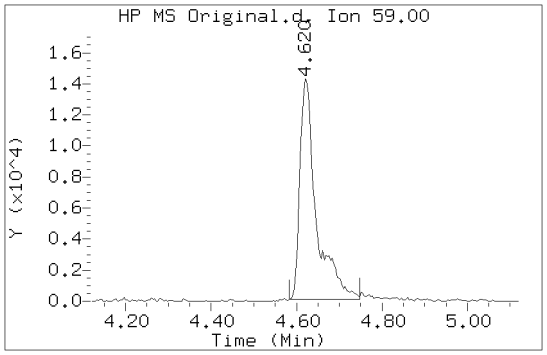


tert-Amyl alcohol (75-85-4)

Reason Code:

BEFORE

MASS
59
AREA
38602
HEIGHT
14207
30-Mar-2023
12:33
linh
pham



AFTER

MASS
59
AREA
32276
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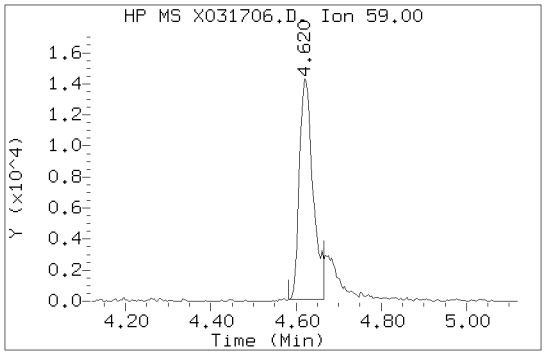
14207
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
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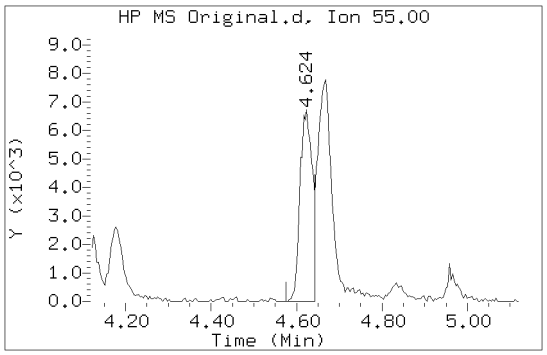
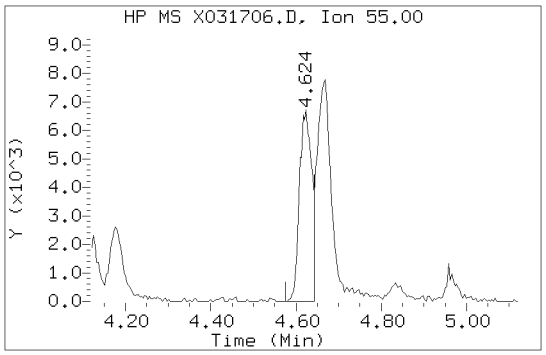
AREA
13691
HEIGHT
6713
30-Mar-2023
12:33
linh
pham



AFTER

MASS
55
AREA
13691
HEIGHT
6713
30-Mar-2023
12:41
linh
pham



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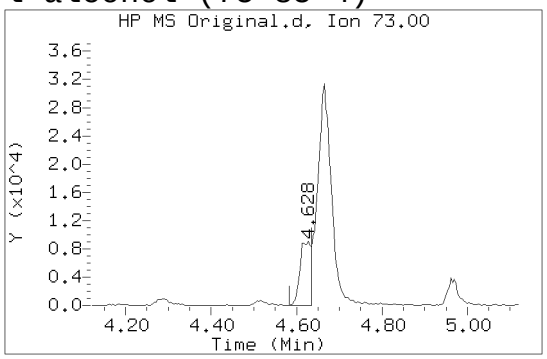
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

tert-Amyl alcohol (75-85-4)

Reason Code:

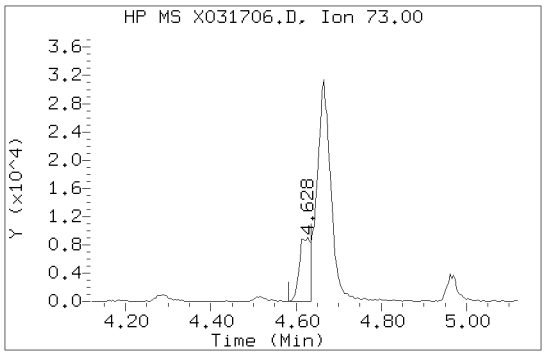
BEFORE

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
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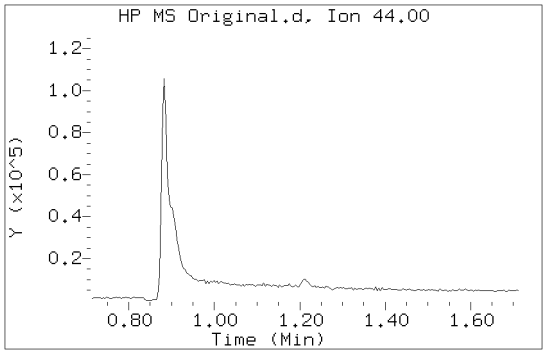
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
44
AREA
4487
HEIGHT
3800
30-Mar-2023
12:41
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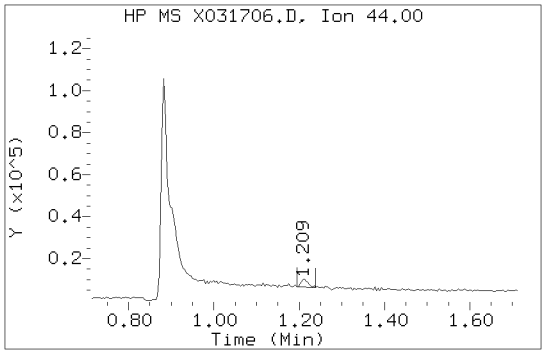
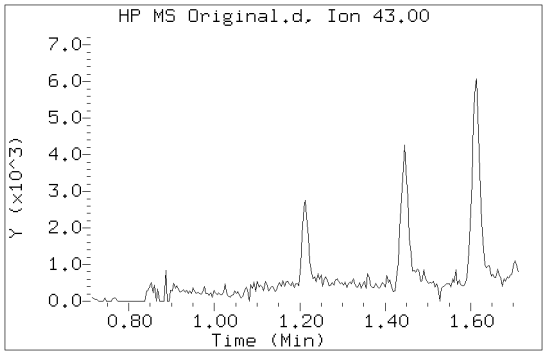


BEFORE

MASS
43
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER

MASS
43
AREA
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HEIGHT
0
30-Mar-2023
12:41
linh
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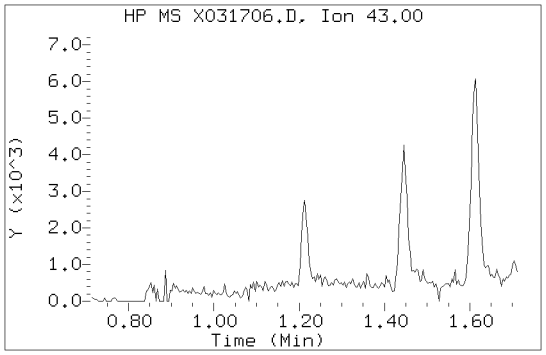

BEFORE

MASS
42
AREA
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HEIGHT
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30-Mar-2023
12:33
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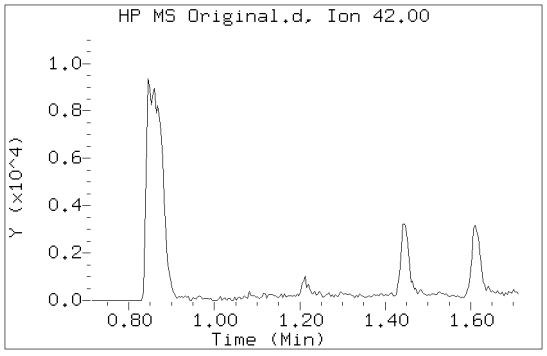

AFTER

MASS
42
AREA
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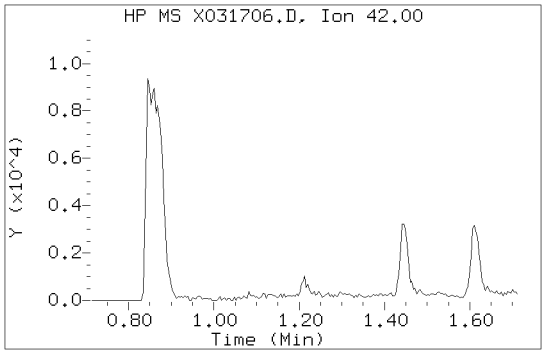
HEIGHT
0
30-Mar-2023
12:41
linh
pham



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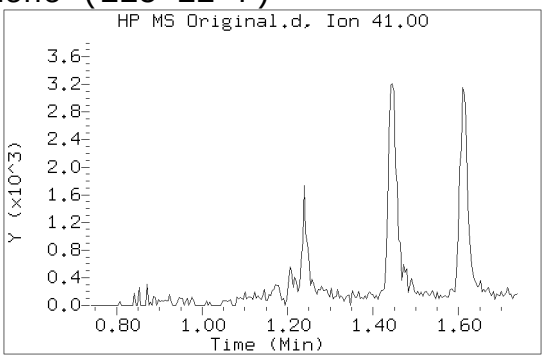
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

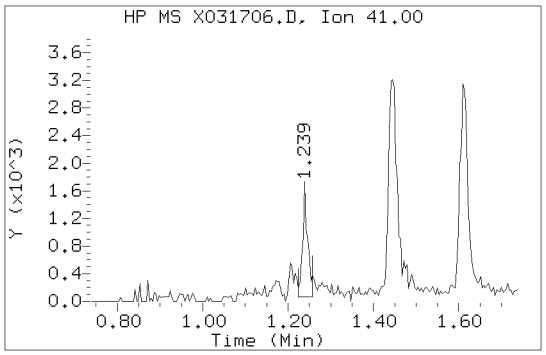
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:33
linh
pham



AFTER
MASS
41
AREA
1462
HEIGHT
1677
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
56
AREA
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HEIGHT
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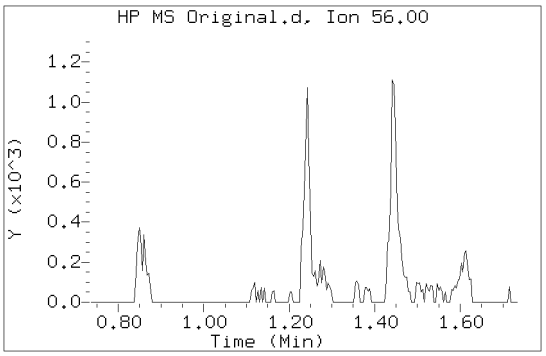
30-Mar-2023
12:33
linh
pham



AFTER
MASS
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AREA
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HEIGHT
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30-Mar-2023
12:41
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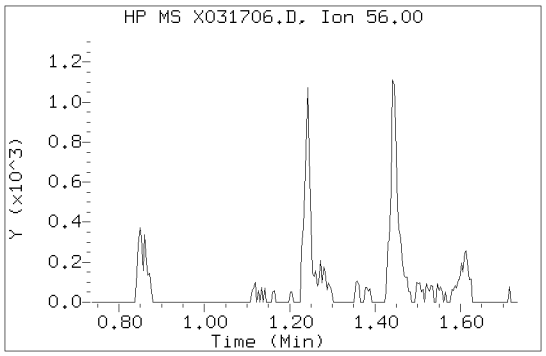
pham



BEFORE
MASS
84
AREA
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HEIGHT
0
30-Mar-2023
12:33
linh
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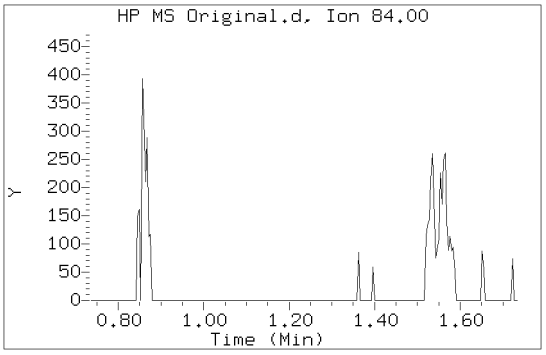
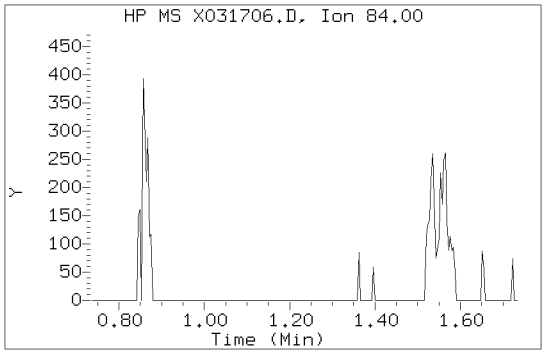


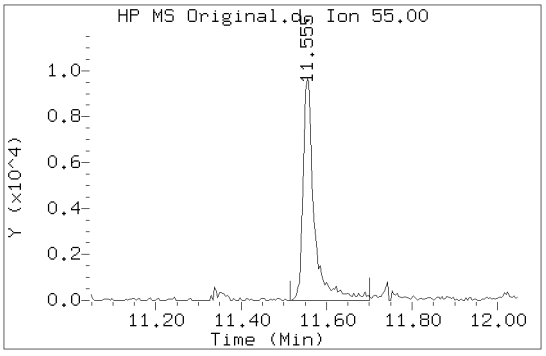
AFTER
MASS
84
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

BEFORE
MASS
55
AREA
18080
HEIGHT
9652
30-Mar-2023
12:33
linh
pham



AFTER
MASS
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AREA
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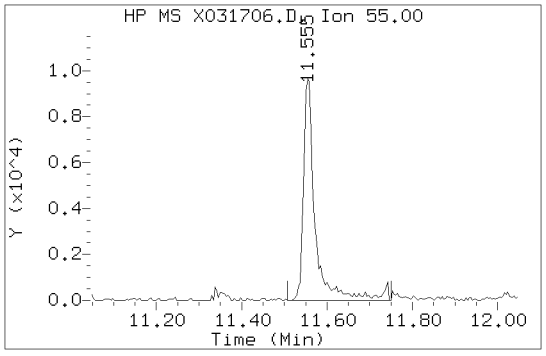
HEIGHT
9652
30-Mar-2023
12:41
linh
pham



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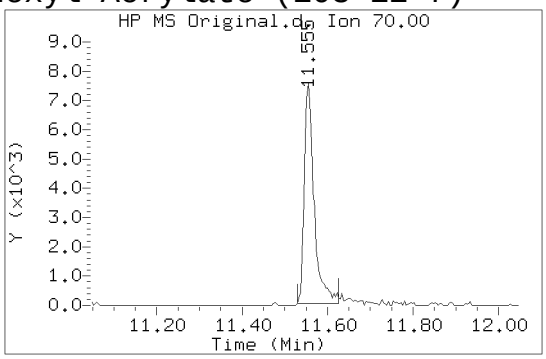
Inj Date : 17-MAR-2023 13:14
InstruID : voa6.i
LabSampID : VSTD005

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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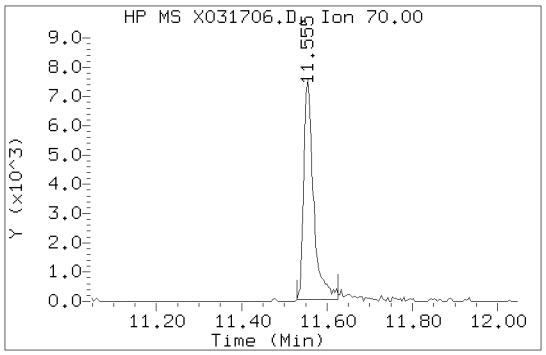
AREA
12386
HEIGHT
7514
30-Mar-2023
12:41
linh
pham



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

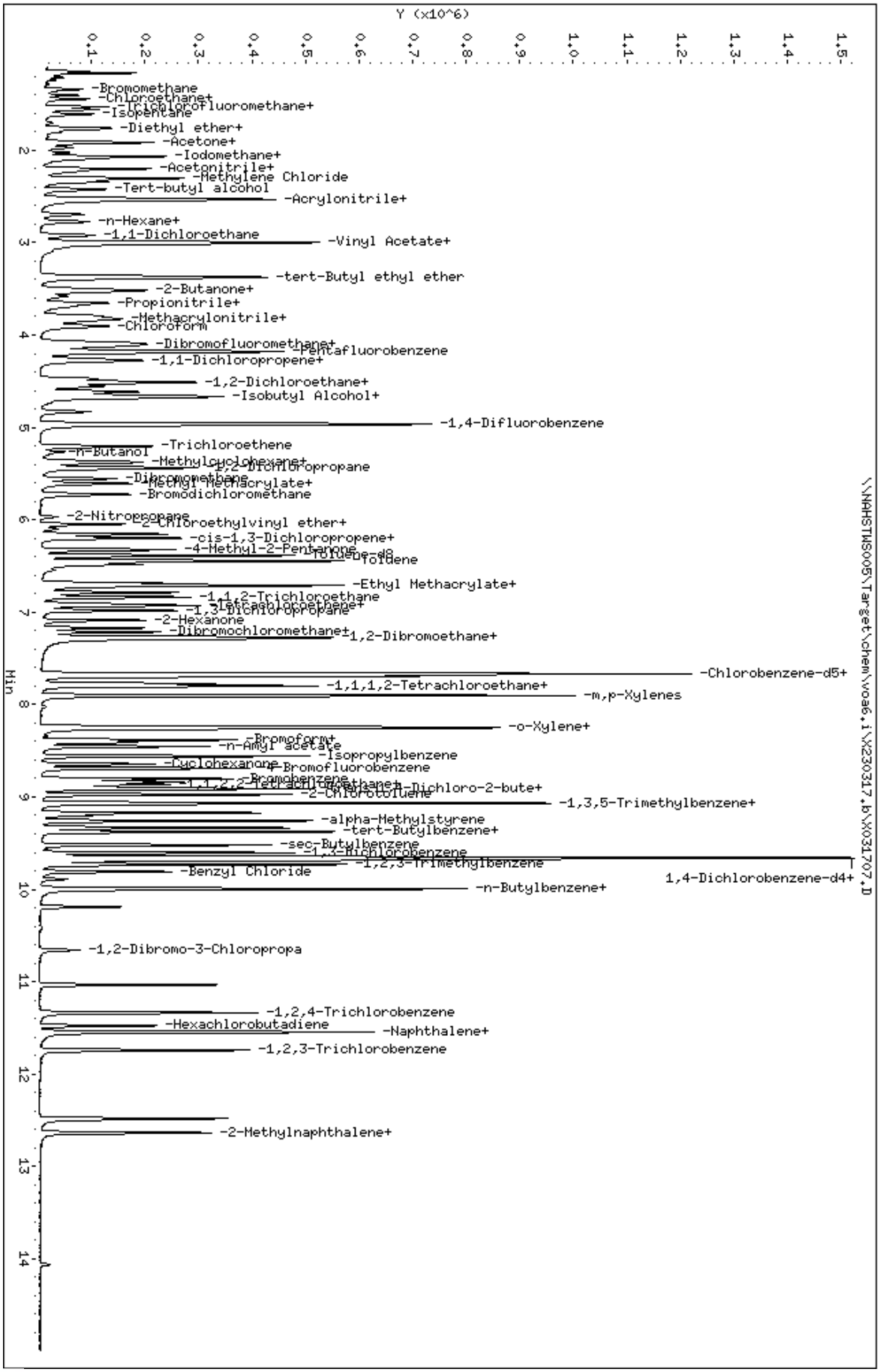
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	191973	20.0000	17.42
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	261695	20.0000	18.44
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	246714	20.0000	16.52
82	p-Isopropyltoluene	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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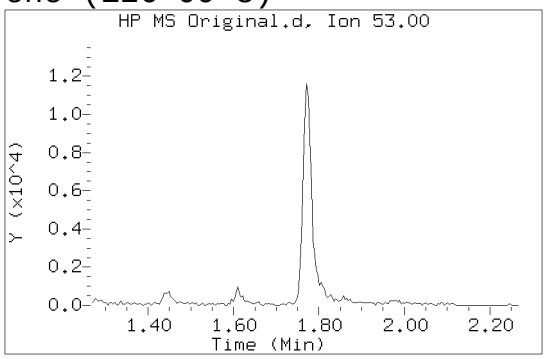
Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

Chloroprene (126-99-8)

BEFORE
MASS
53
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
pham



Reason Code:

AFTER
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HEIGHT
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30-Mar-2023
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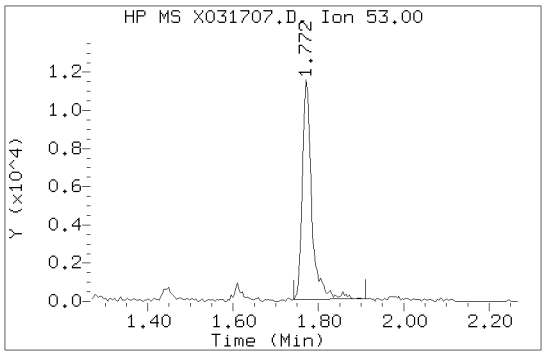

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30-Mar-2023
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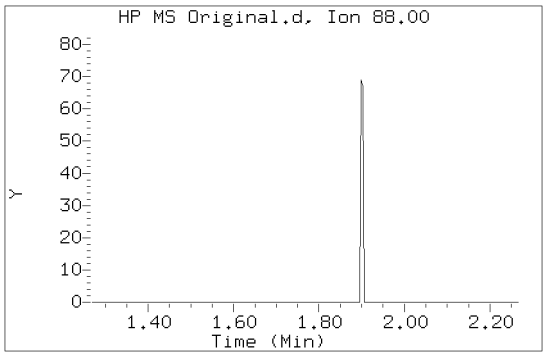

AFTER
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30-Mar-2023
12:41
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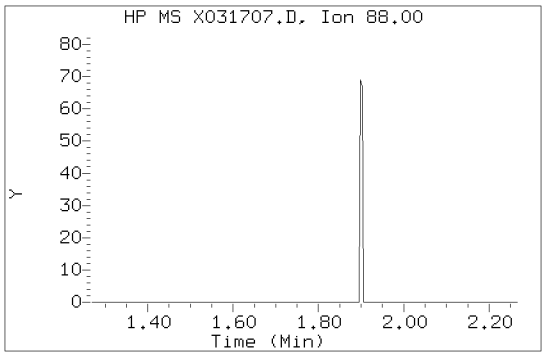

Cyclohexane (110-82-7)

BEFORE
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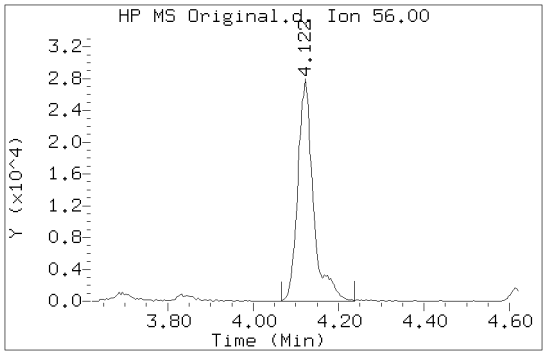

Reason Code:

AFTER
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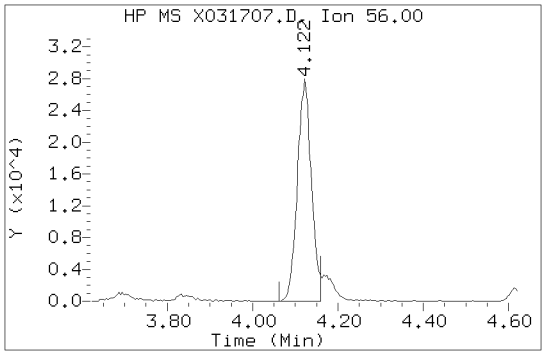

BEFORE
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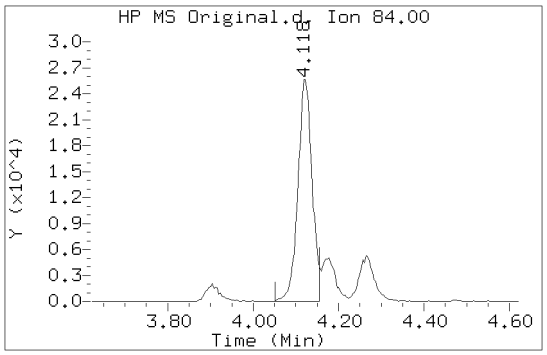

AFTER
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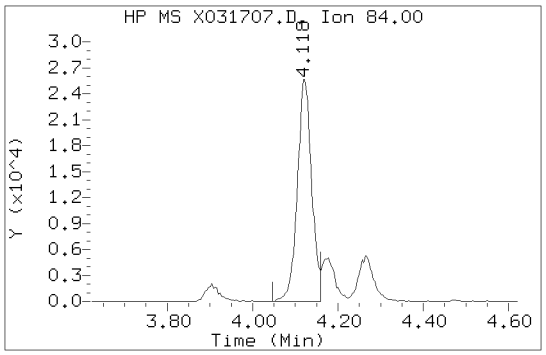

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Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

Cyclohexane (110-82-7)

BEFORE

MASS
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HEIGHT
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12:34
linh
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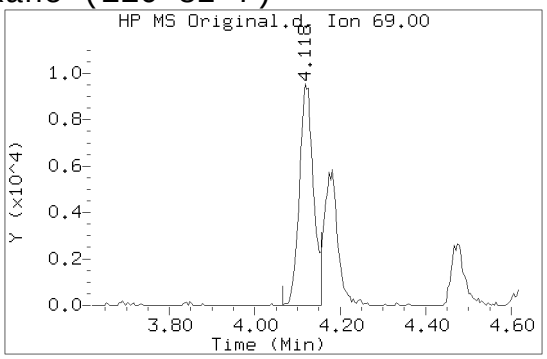

AFTER

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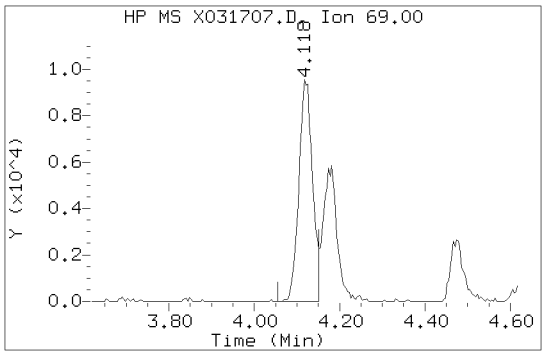

Reason Code:

4-Methyl-2-pentanol (108-11-2)

BEFORE

MASS
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AREA
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HEIGHT
222018
30-Mar-2023
12:34
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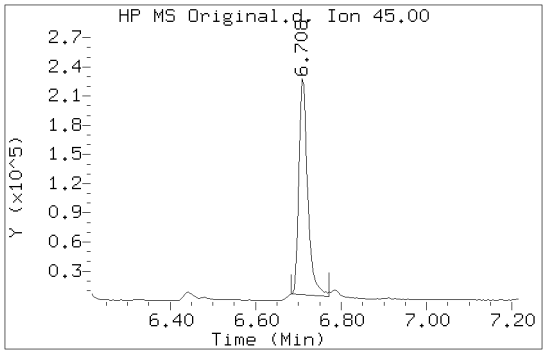

AFTER

MASS
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AREA
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30-Mar-2023
12:41
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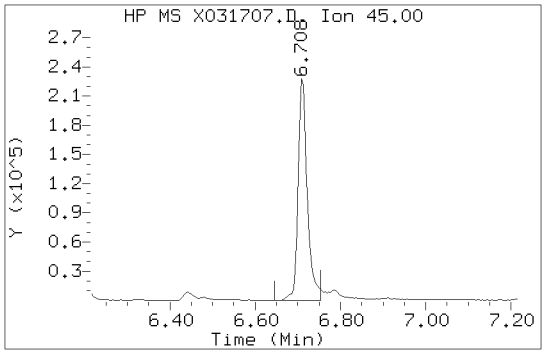

Reason Code:

BEFORE

MASS
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HEIGHT
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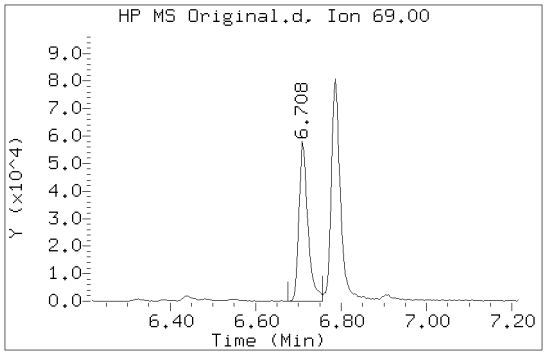

AFTER

MASS
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30-Mar-2023
12:41
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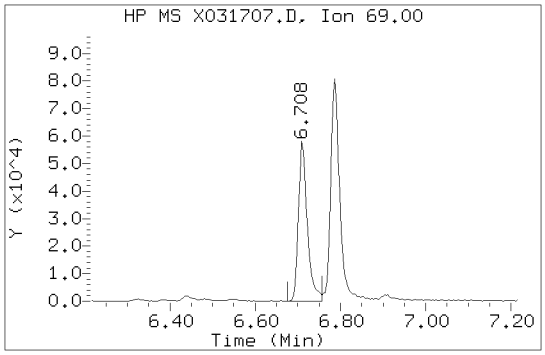

Amyl alcohol (71-41-0)

BEFORE

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HEIGHT
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30-Mar-2023
12:34
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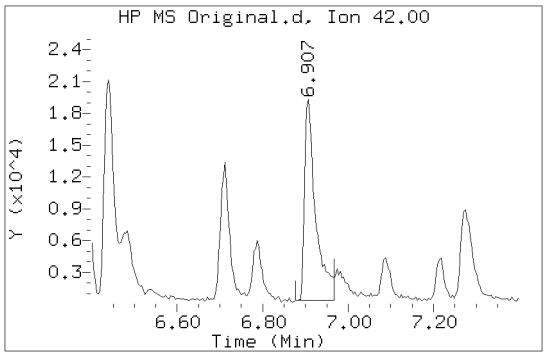

AFTER

MASS
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AREA
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12:41
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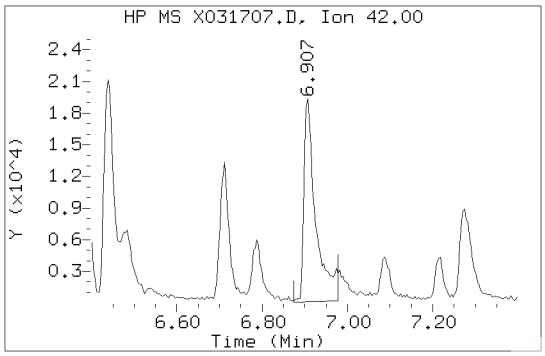

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Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

Amyl alcohol (71-41-0)

Reason Code:

BEFORE

MASS
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AREA
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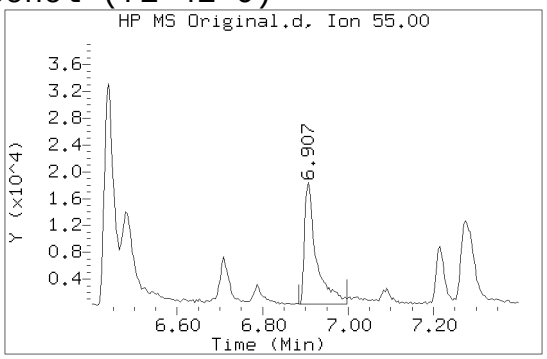
HEIGHT
18139
30-Mar-2023
12:34
linh
pham



AFTER

MASS
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30-Mar-2023
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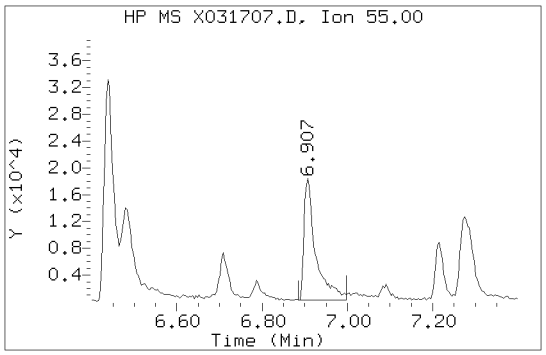

BEFORE

MASS
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AREA
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30-Mar-2023
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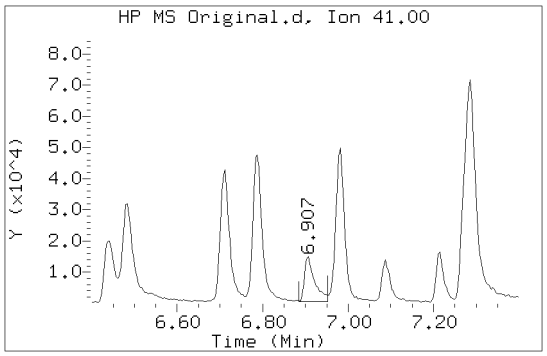

AFTER

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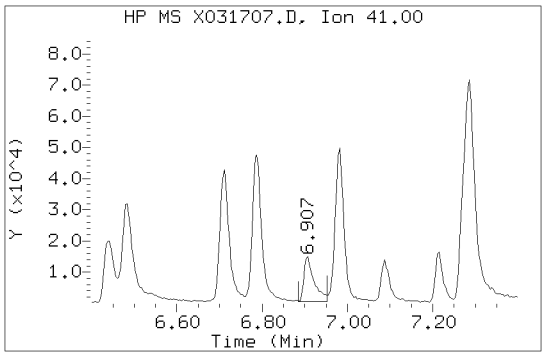

Propylene oxide ()

Reason Code:

BEFORE

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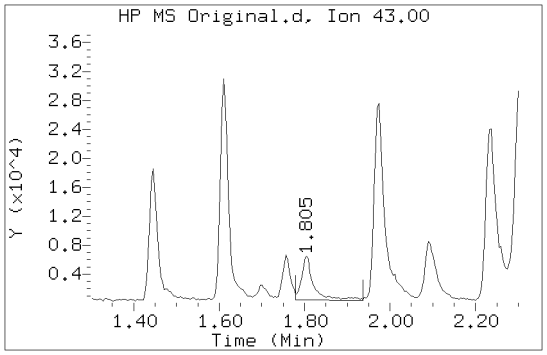

AFTER

MASS
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AREA
9637
HEIGHT
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30-Mar-2023
12:41
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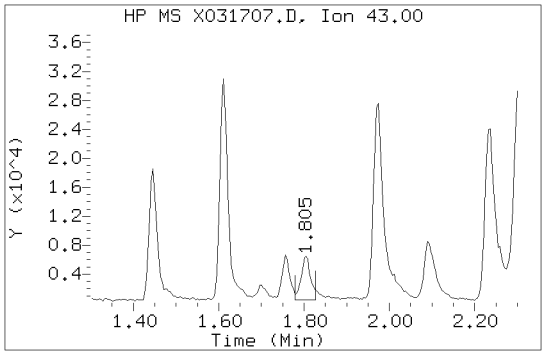

BEFORE

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8060
30-Mar-2023
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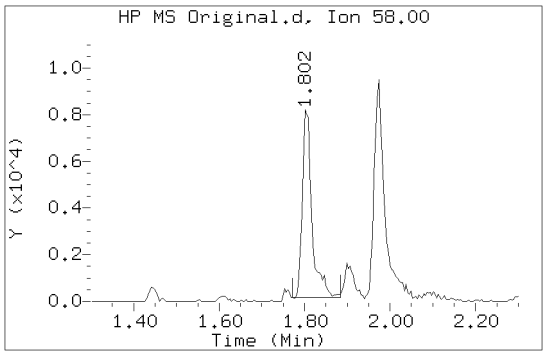

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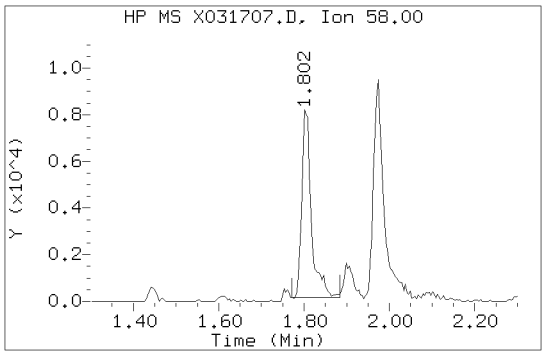

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Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

3-Methyl-1-butanol (123-51-3)

Reason Code:

BEFORE

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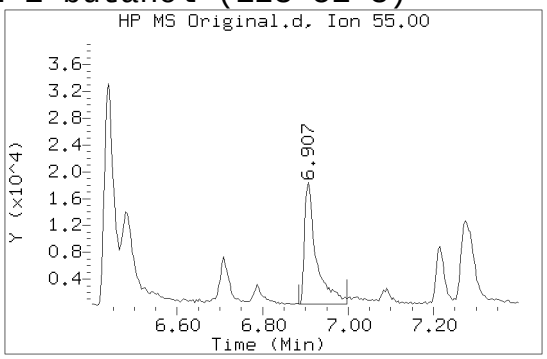

AFTER

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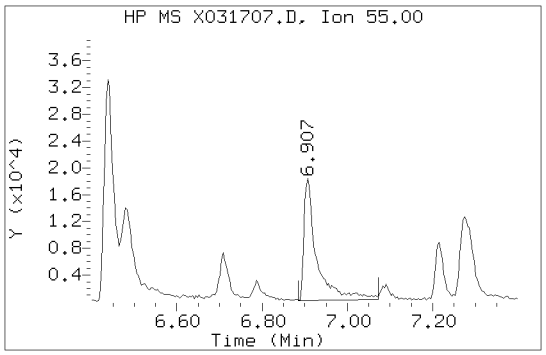

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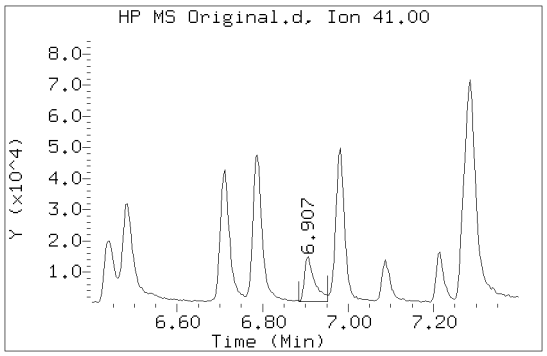

AFTER

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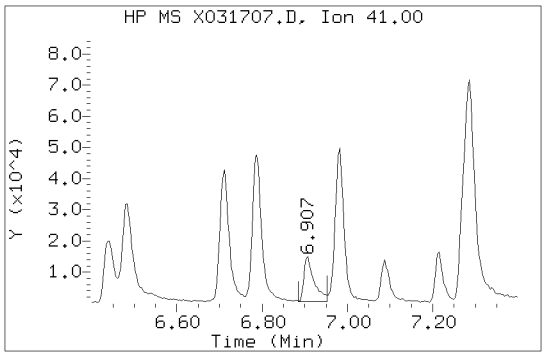

Acetaldehyde (75-07-0)

Reason Code:

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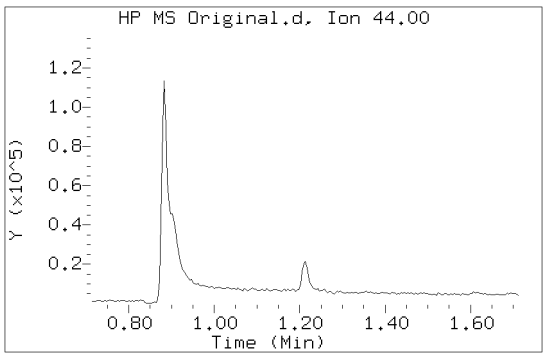

AFTER

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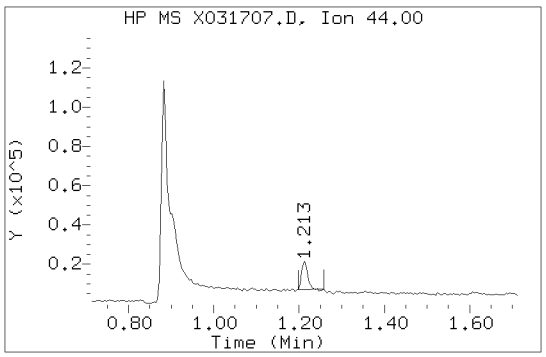

BEFORE

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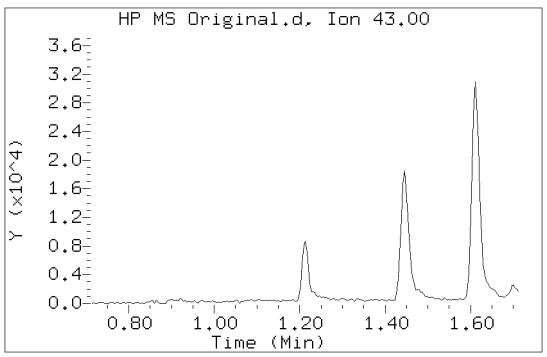

AFTER

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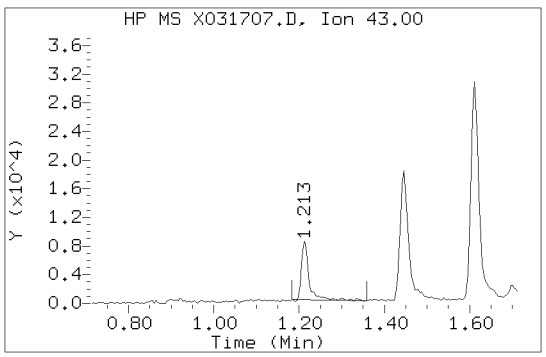

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Inj Date : 17-MAR-2023 13:35
InstruID : voa6.i
LabSampID : VSTD020

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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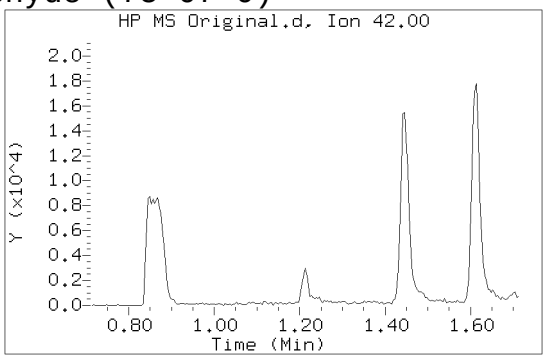

AFTER

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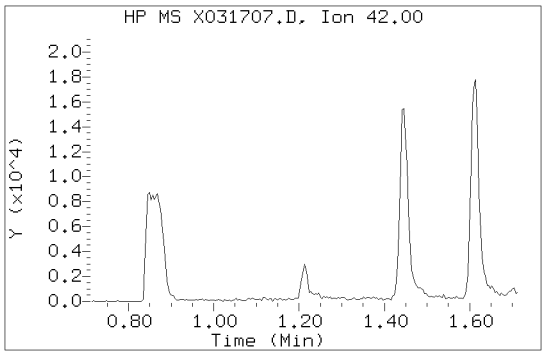

Isobutylene (115-11-7)

Reason Code:

BEFORE

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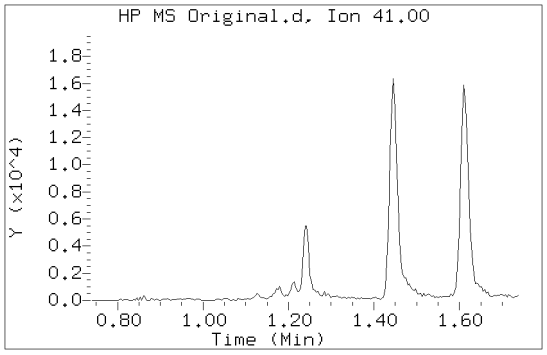

AFTER

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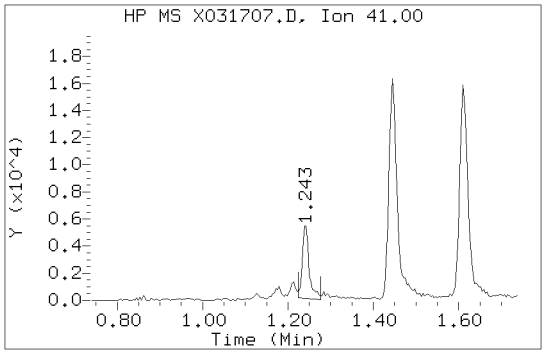

BEFORE

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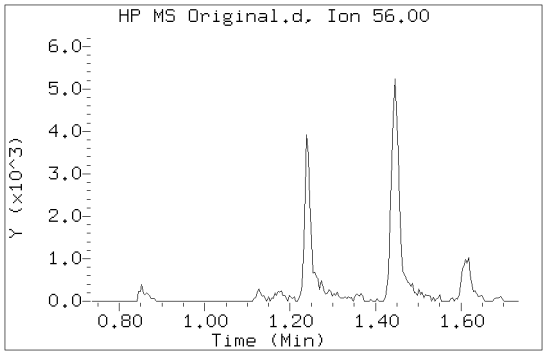

AFTER

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30-Mar-2023
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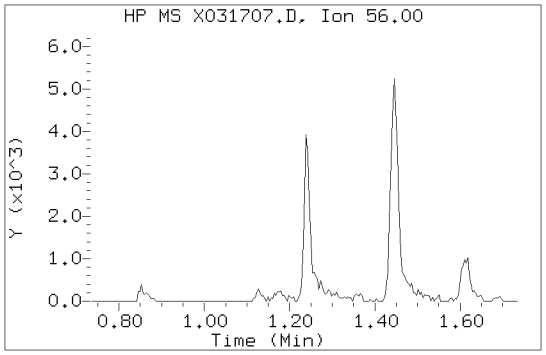

BEFORE

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30-Mar-2023
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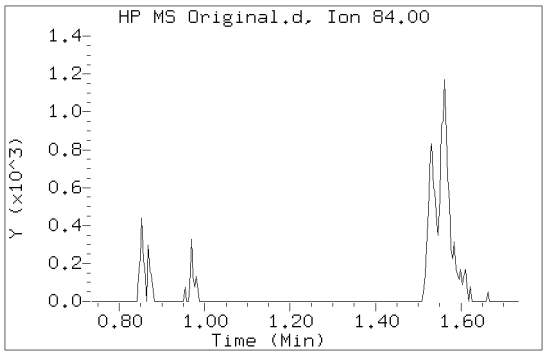

AFTER

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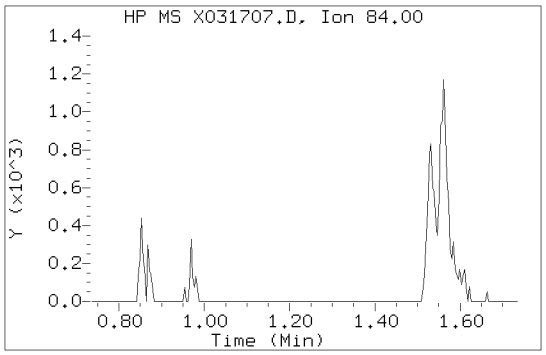

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Report Date: 30-Mar-2023 12:41

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

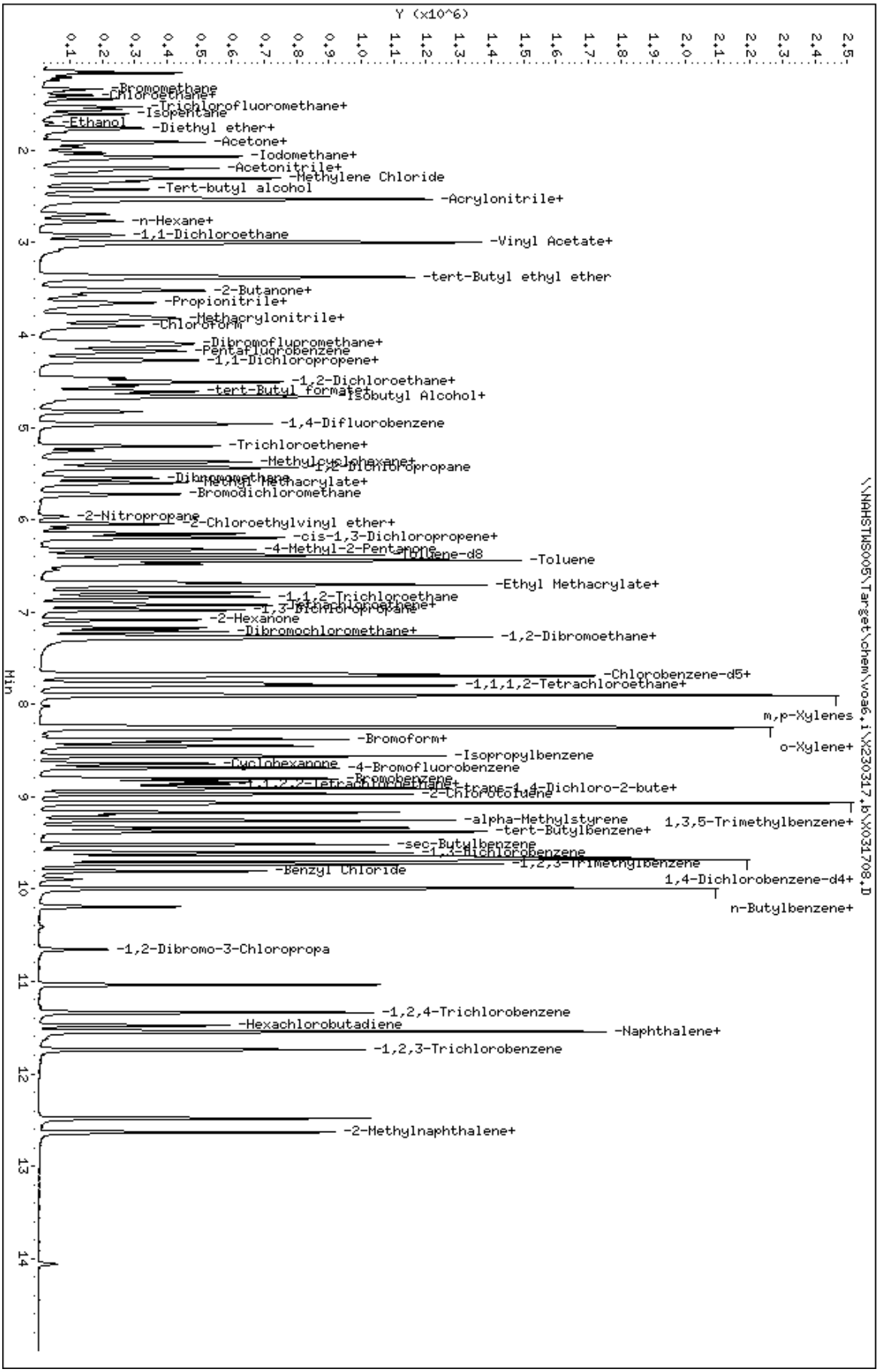
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	479849	50.0000	45.37	
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	647040	50.0000	47.51	
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	635488	50.0000	44.33	
82	p-Isopropyltoluene	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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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
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AREA
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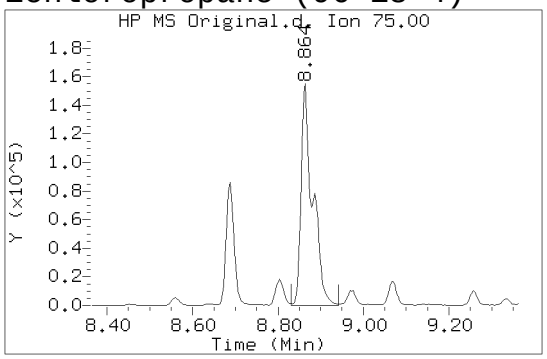
HEIGHT
155088
30-Mar-2023
12:34
linh
pham



AFTER

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12:41
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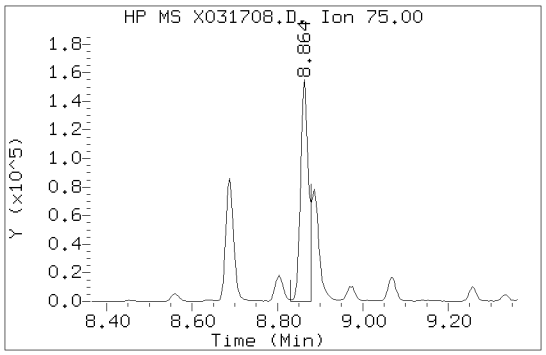

BEFORE

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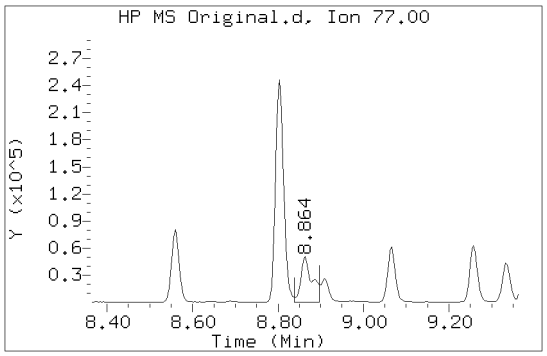

AFTER

MASS
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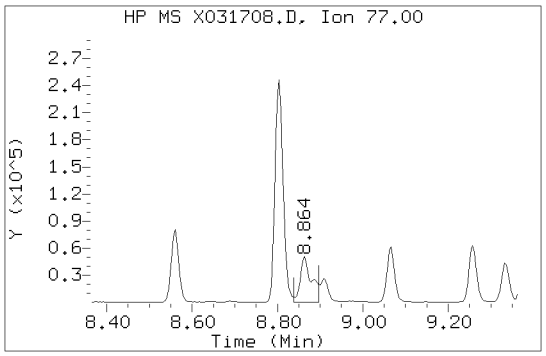

Chloroprene (126-99-8)

Reason Code:

BEFORE

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HEIGHT
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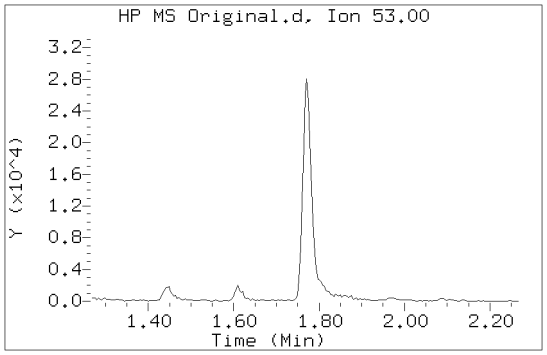

AFTER

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HEIGHT
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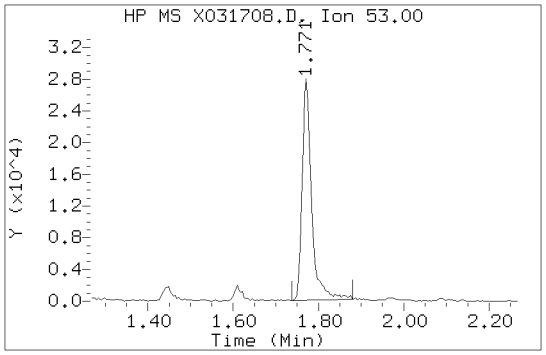

BEFORE

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12:34
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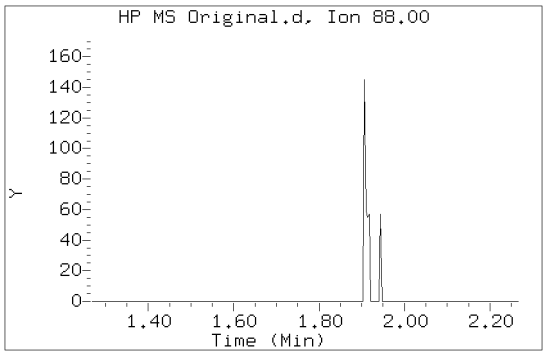

AFTER

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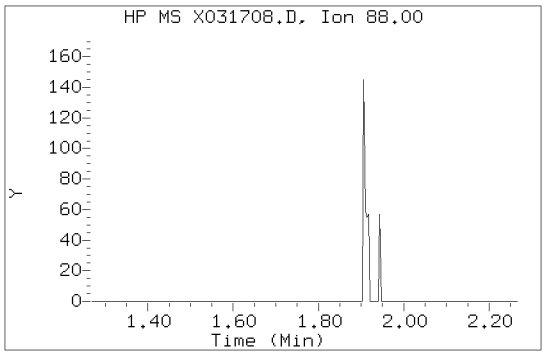

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Inj Date : 17-MAR-2023 13:55
InstruID : voa6.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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AREA
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HEIGHT
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30-Mar-2023
12:34
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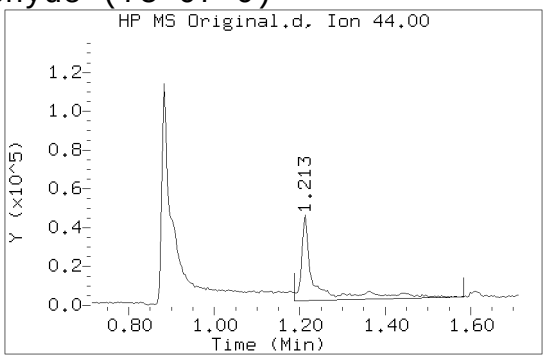

AFTER

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AREA
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12:41
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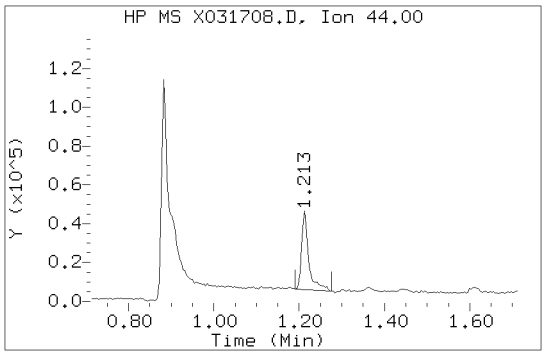

BEFORE

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AREA
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HEIGHT
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30-Mar-2023
12:34
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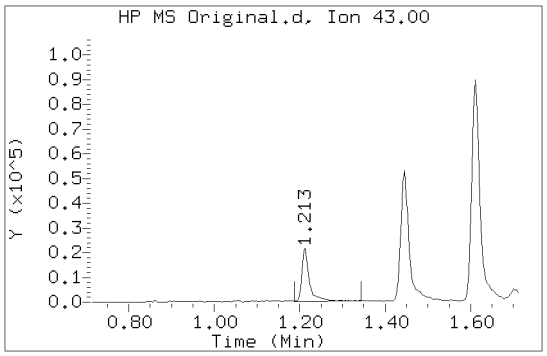

AFTER

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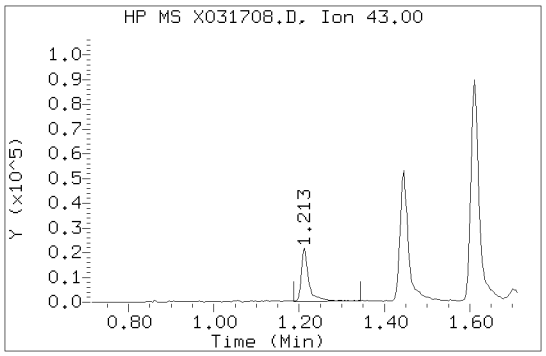

BEFORE

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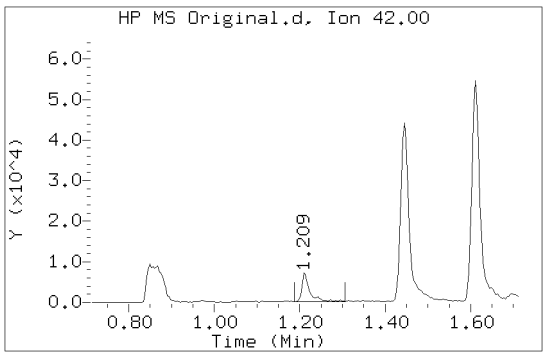

AFTER

MASS
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HEIGHT
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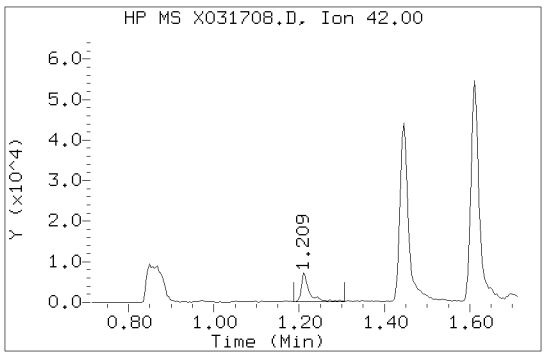

Isobutylene (115-11-7)

Reason Code:

BEFORE

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HEIGHT
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30-Mar-2023
12:34
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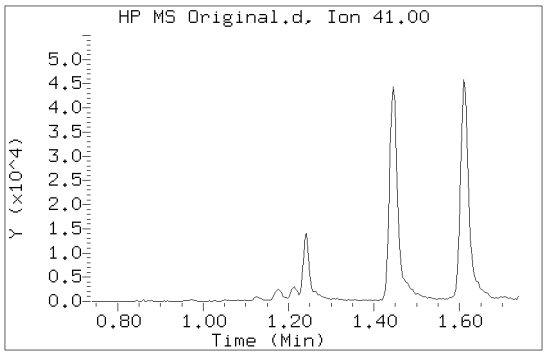

AFTER

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HEIGHT
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30-Mar-2023
12:41
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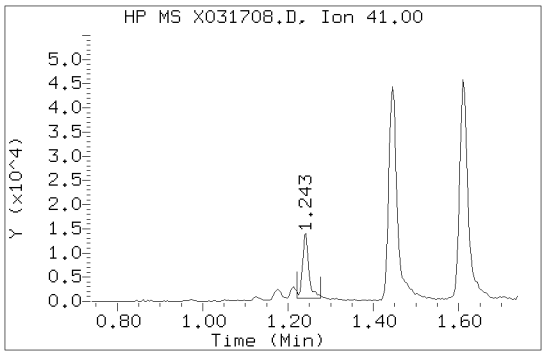

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Inj Date : 17-MAR-2023 13:55
InstruID : voa6.i
LabSampID : VSTD050

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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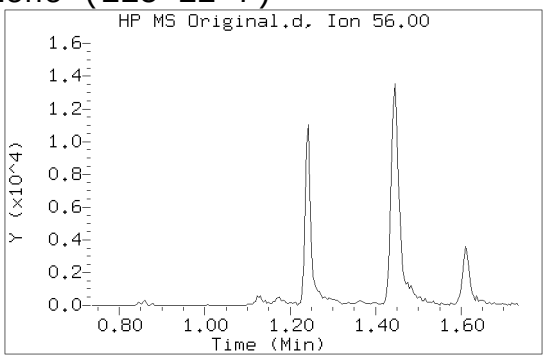

AFTER
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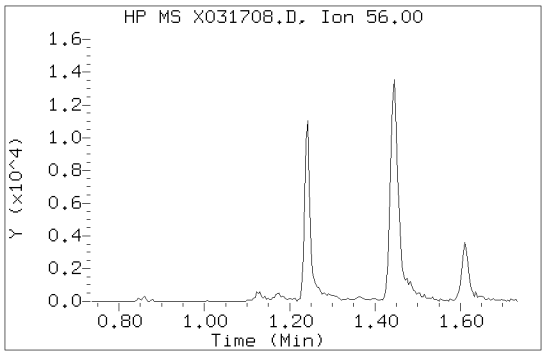

BEFORE
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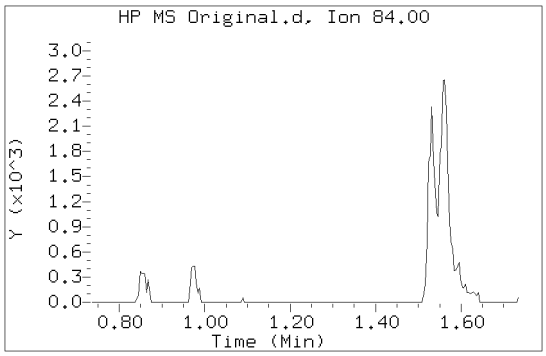

AFTER
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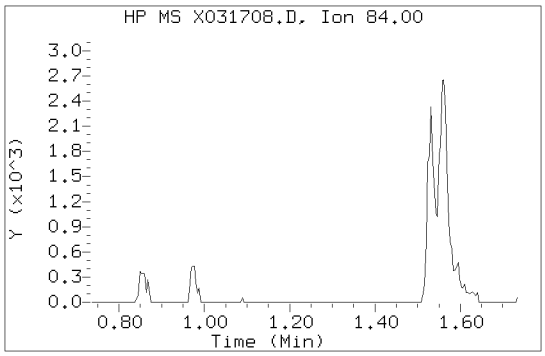

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031709.D Page 1
Report Date: 30-Mar-2023 12:41

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

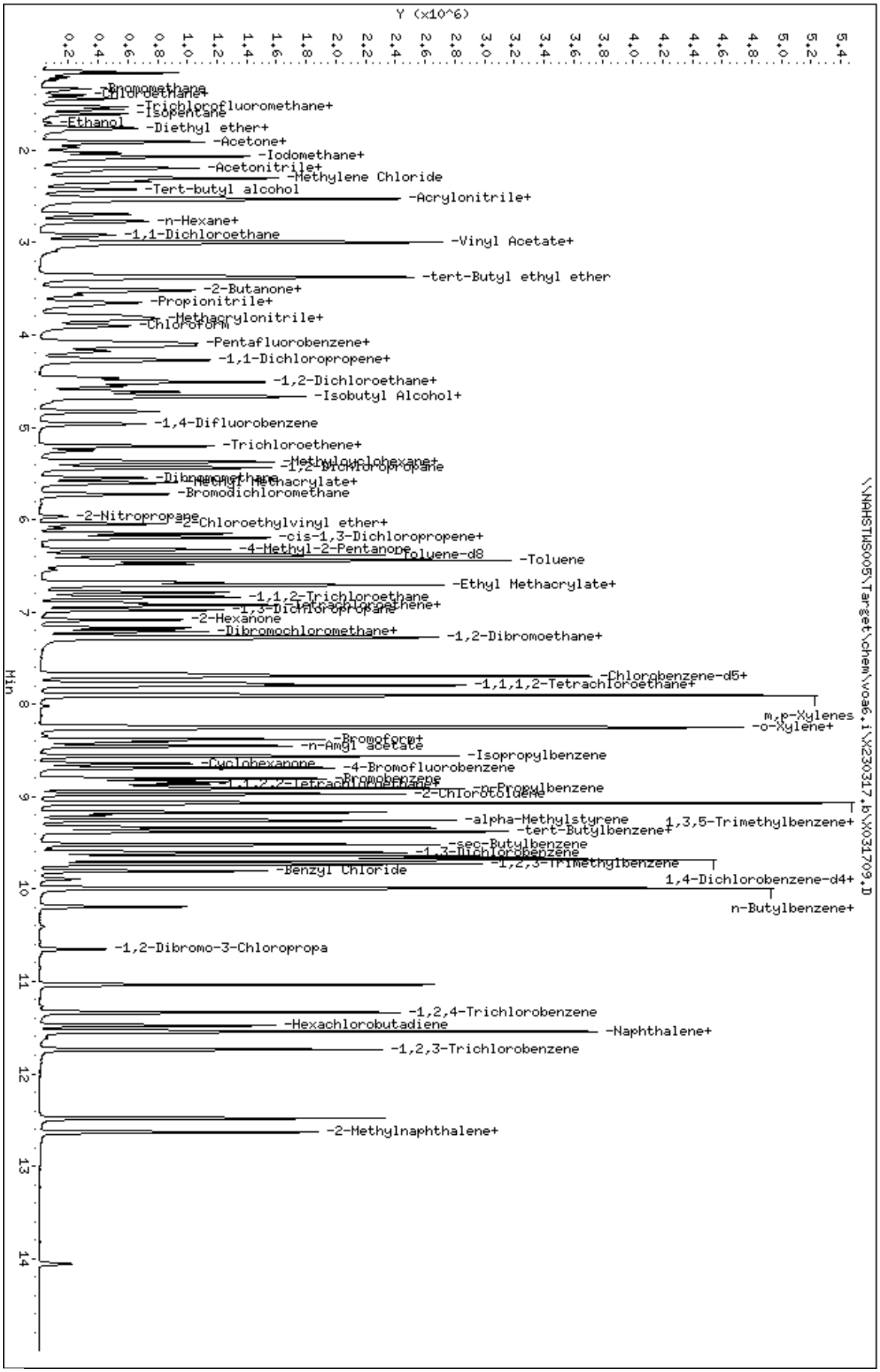
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	1129372	100.000	107.51
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	1408896	100.000	104.16
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	1542474	100.000	108.34
82	p-Isopropyltoluene	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

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:

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30-Mar-2023
12:34
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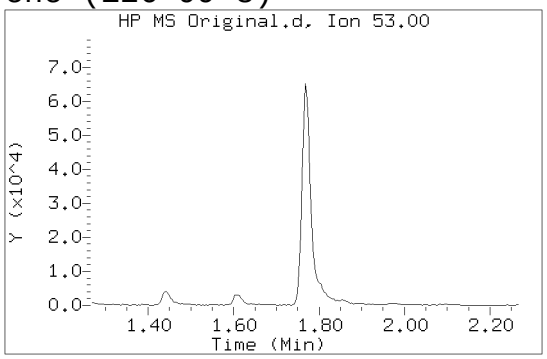
pham



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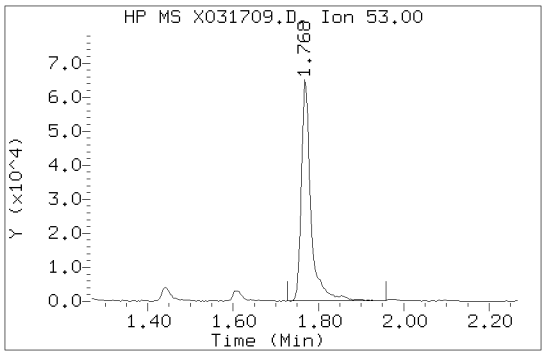

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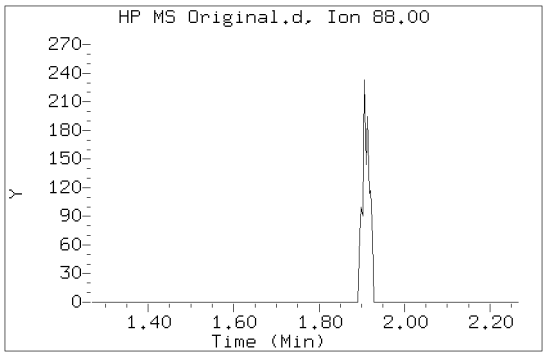

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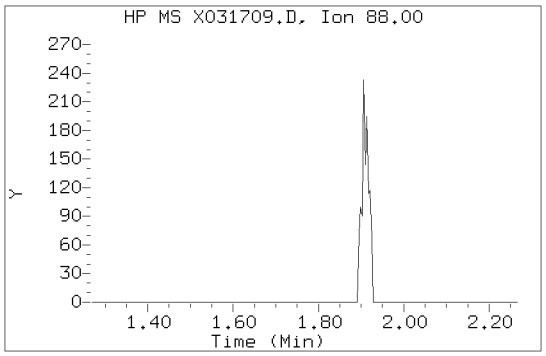

Acetaldehyde (75-07-0)

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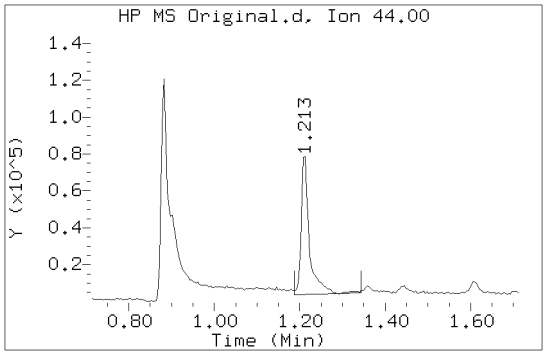

AFTER
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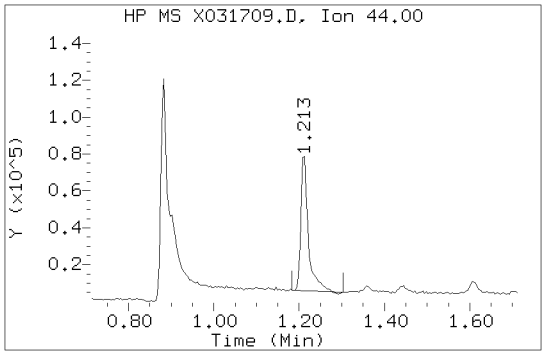

BEFORE
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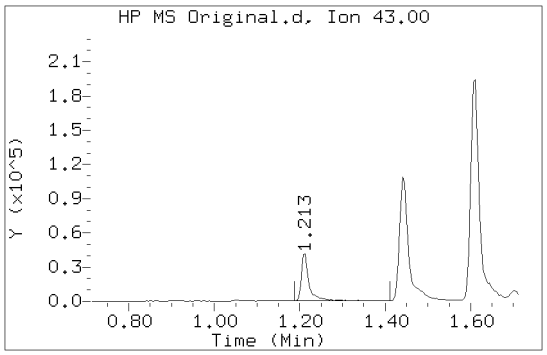

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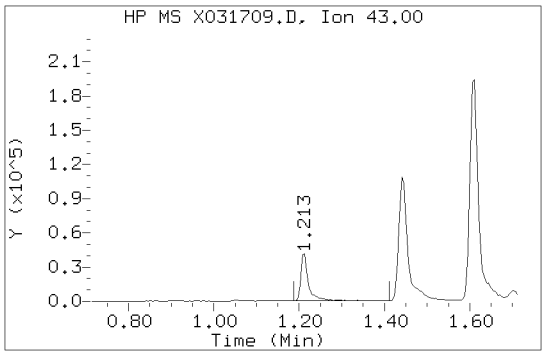

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InstruID : voa6.i
LabSampID : VSTD100

Acetaldehyde (75-07-0)

Reason Code:

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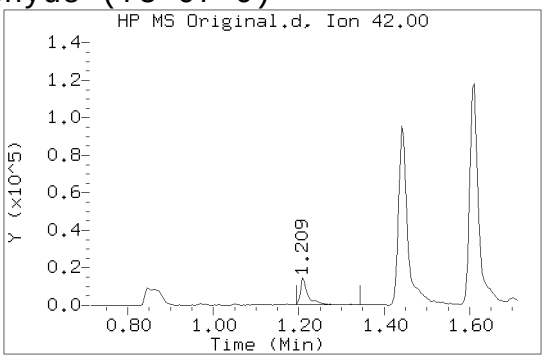

AFTER

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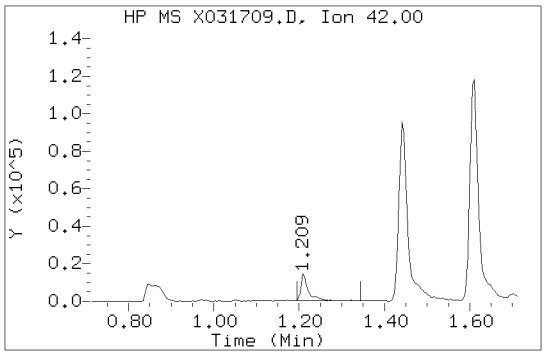

Isobutylene (115-11-7)

Reason Code:

BEFORE

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HEIGHT
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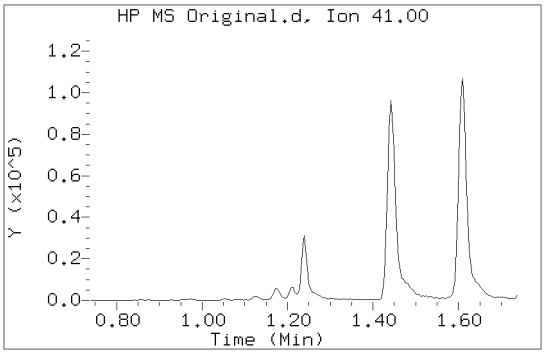

AFTER

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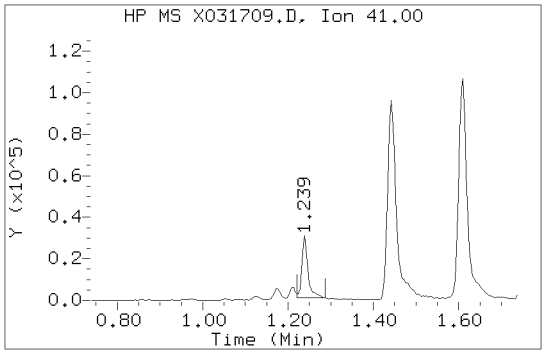

BEFORE

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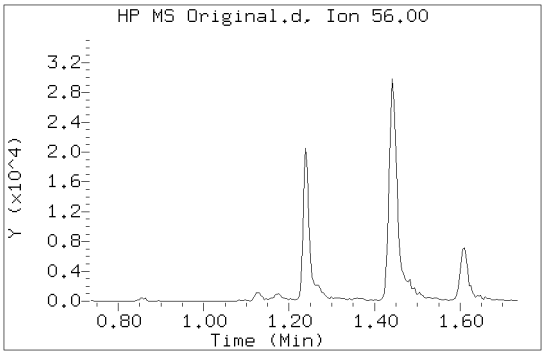

AFTER

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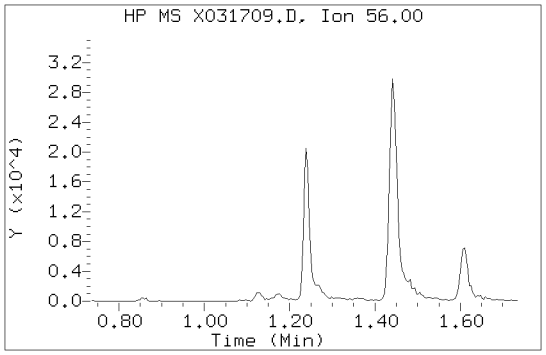

BEFORE

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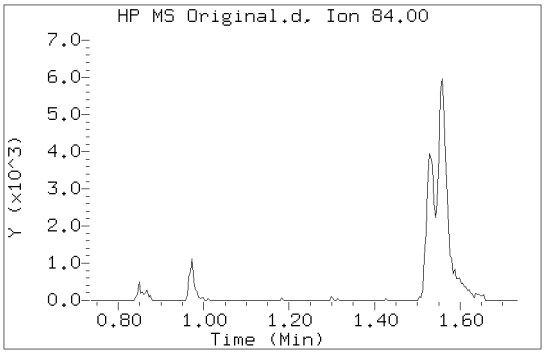

AFTER

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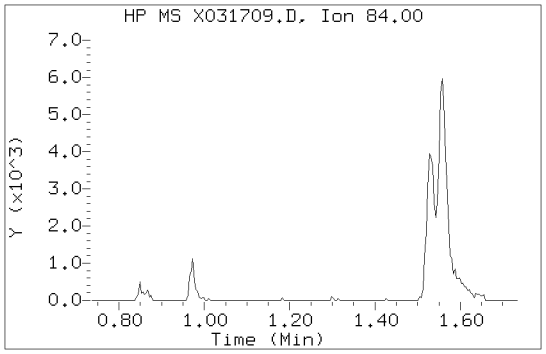

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Report Date: 30-Mar-2023 12:41

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031710.D
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Inj Date : 17-MAR-2023 14:37
Operator : PC Inst ID: voa6.i
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

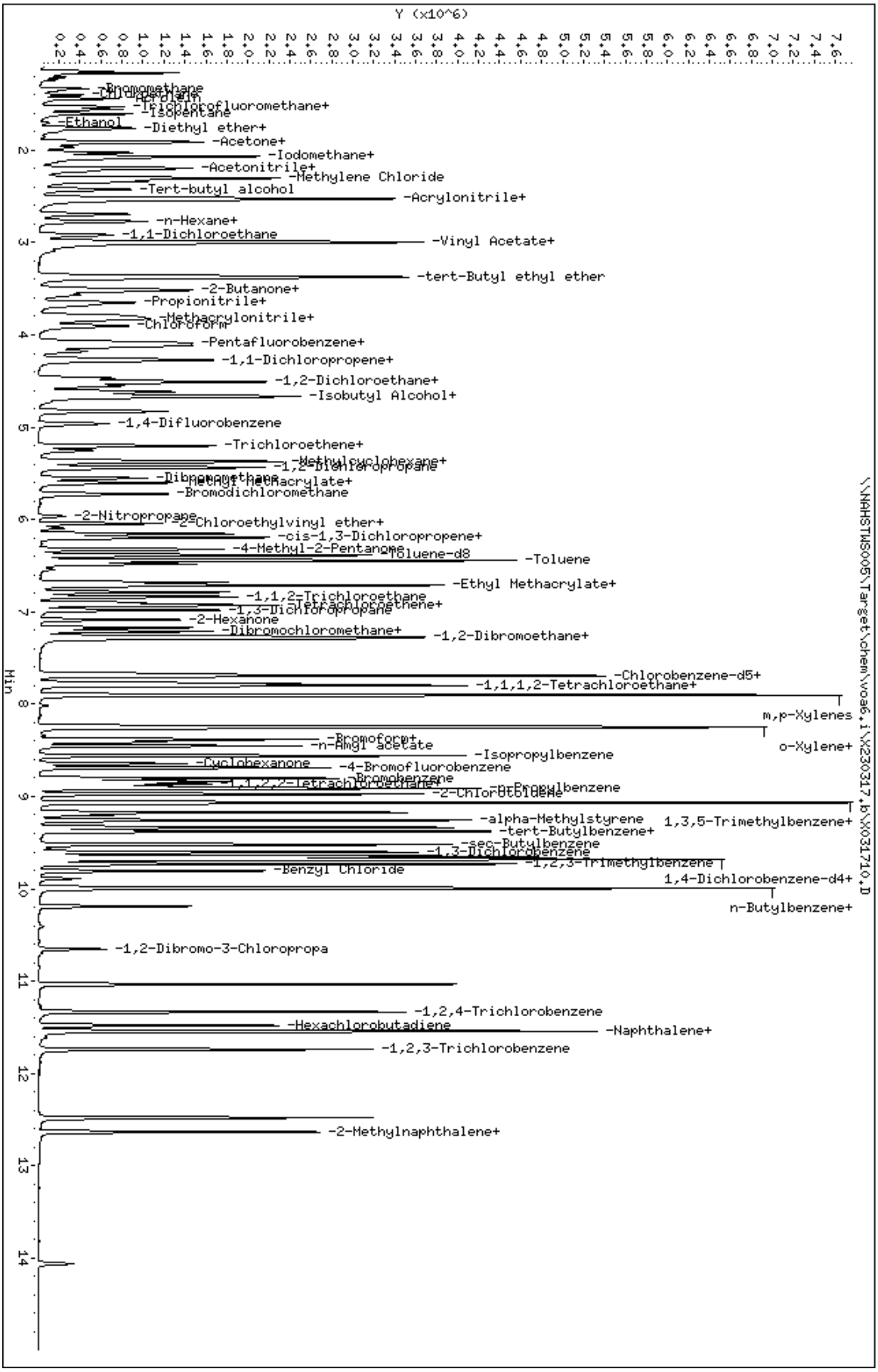
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	1627651	150.000	159.77
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	2043656	150.000	155.79
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	2257002	150.000	163.45
82	p-Isopropyltoluene	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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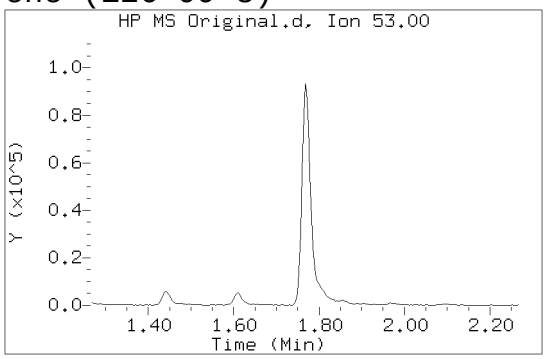

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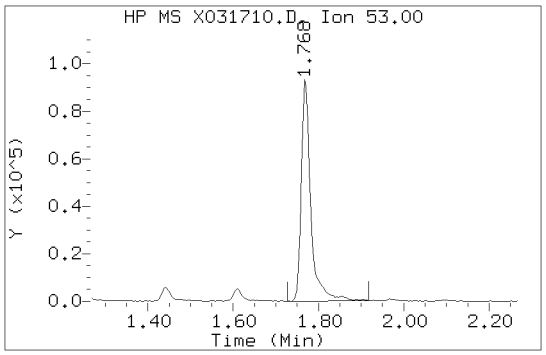

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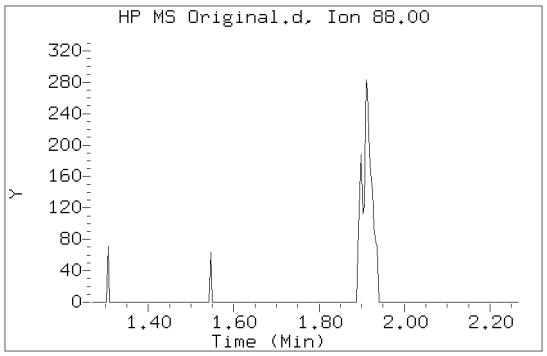

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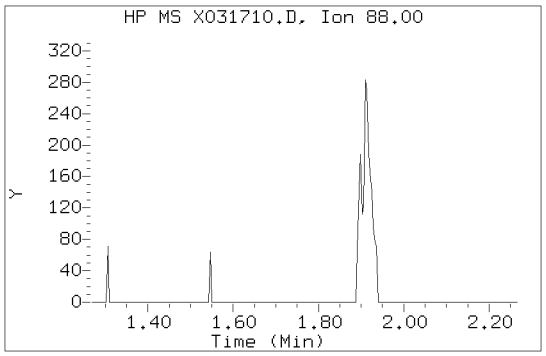

Propylene oxide ()

Reason Code:

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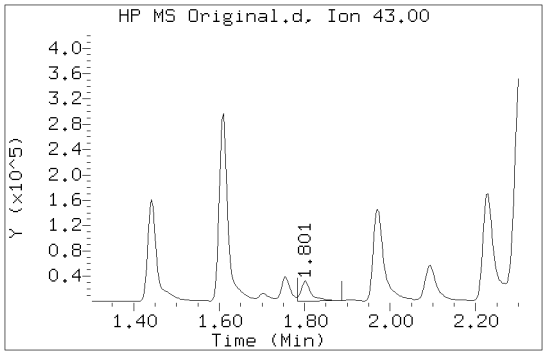

AFTER
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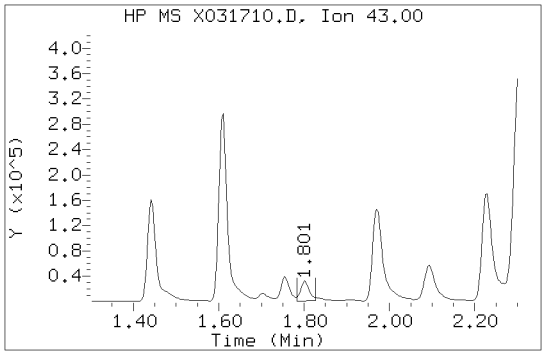

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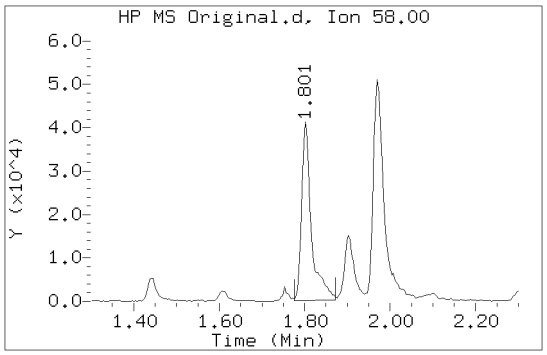

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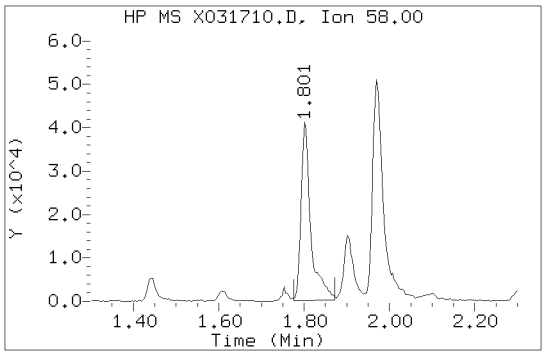

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LabSampID : VSTD150

Acetaldehyde (75-07-0)

Reason Code:

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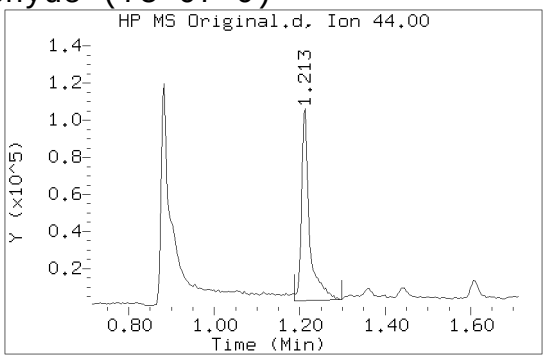

AFTER

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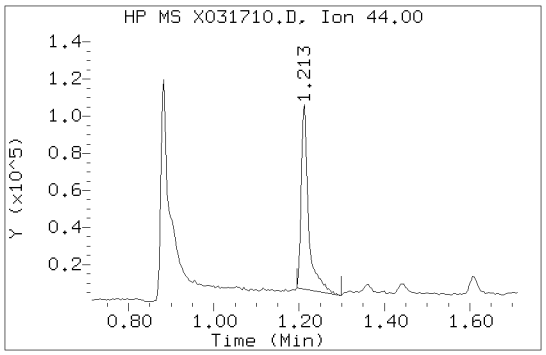

BEFORE

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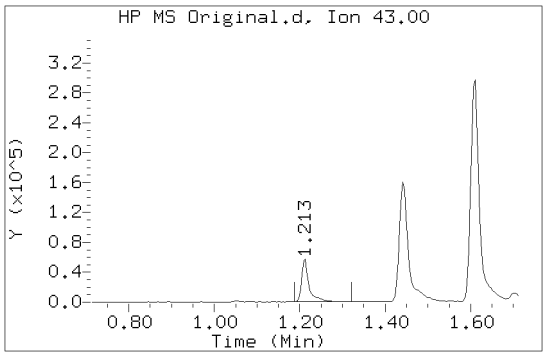

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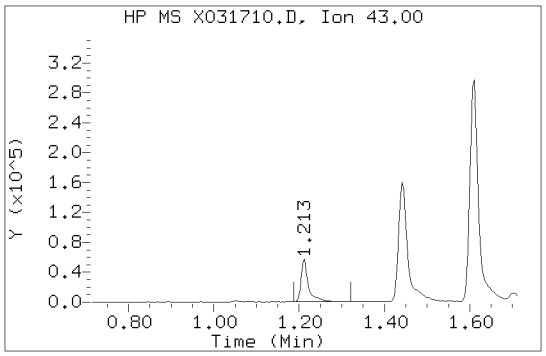

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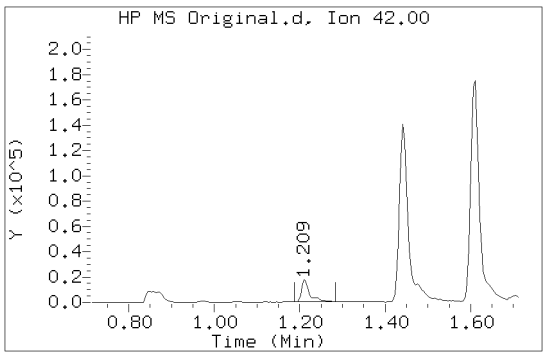

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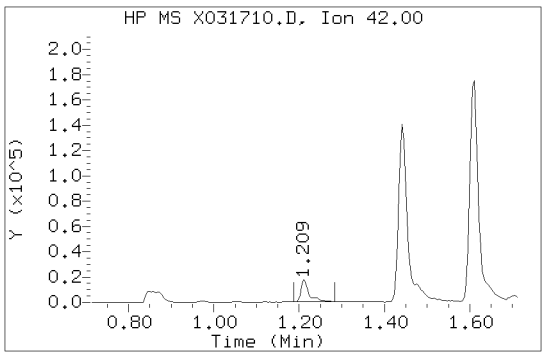

Isobutylene (115-11-7)

Reason Code:

BEFORE

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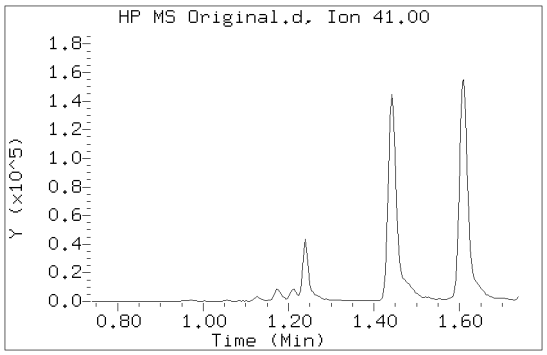

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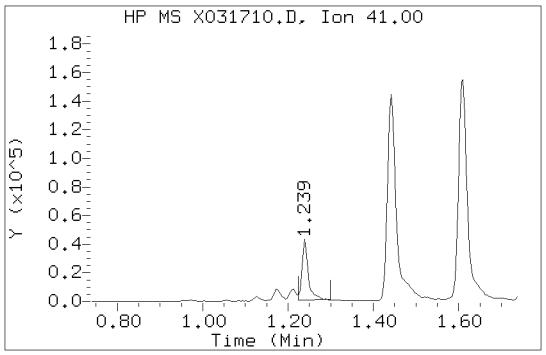

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Inj Date : 17-MAR-2023 14:37
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LabSampID : VSTD150

Isobutylene (115-11-7)

Reason Code:

BEFORE

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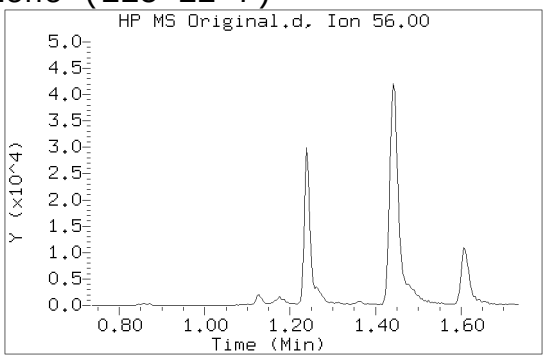

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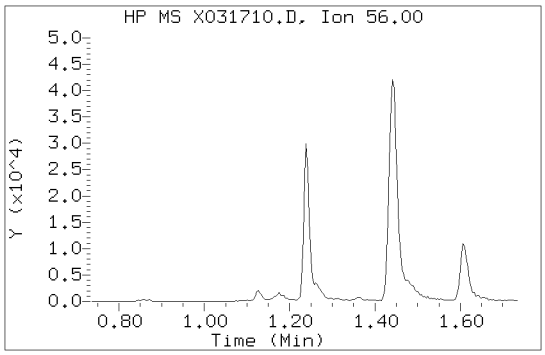

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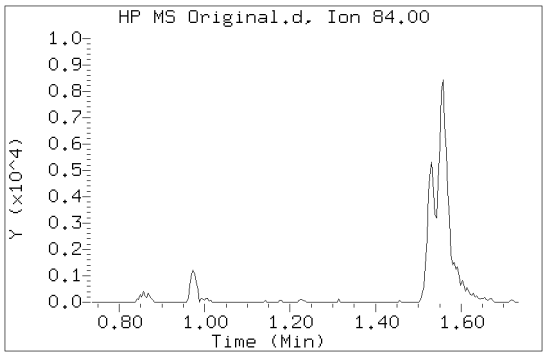

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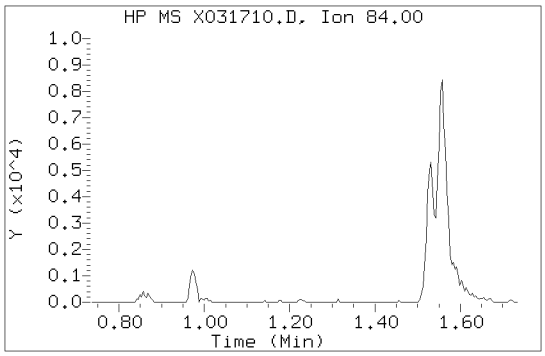

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Report Date: 30-Mar-2023 12:41

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   :
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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)

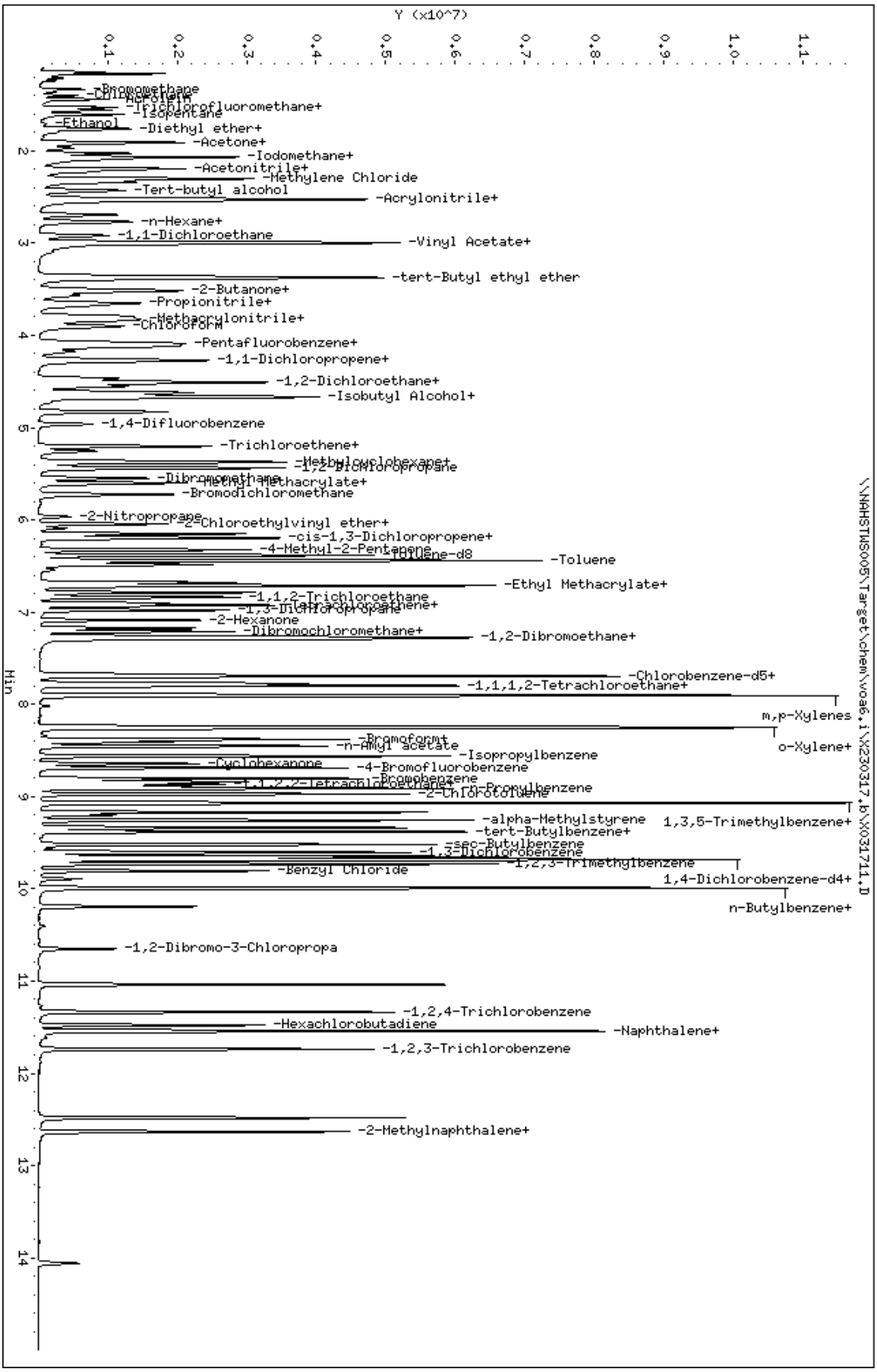
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	2279547	200.000	197.45
79	1,2,4-Trimethylbenzene	105	9.381	9.381	(0.971)	2919311	200.000	196.38
81	sec-Butylbenzene	105	9.523	9.523	(0.986)	3349438	200.000	214.06(A)
82	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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Sample Info: VSTD200;VSTD200;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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30-Mar-2023
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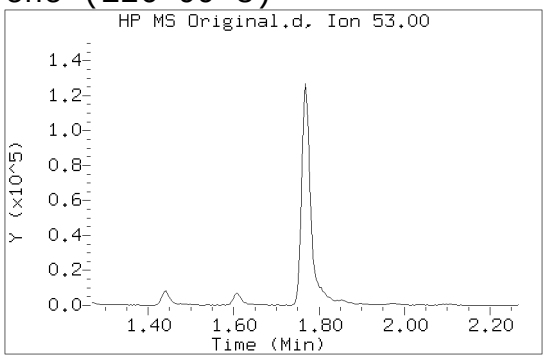

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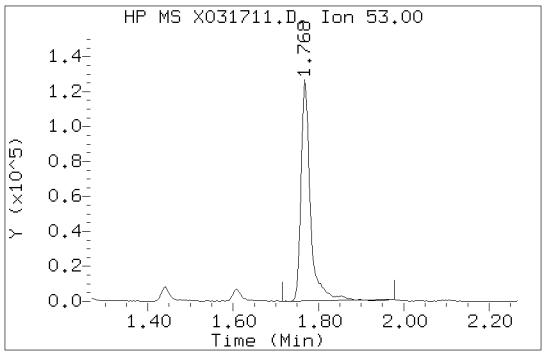

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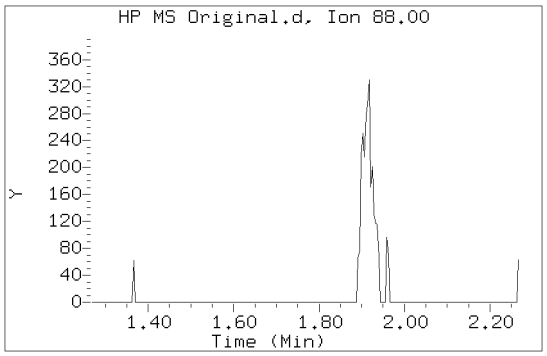

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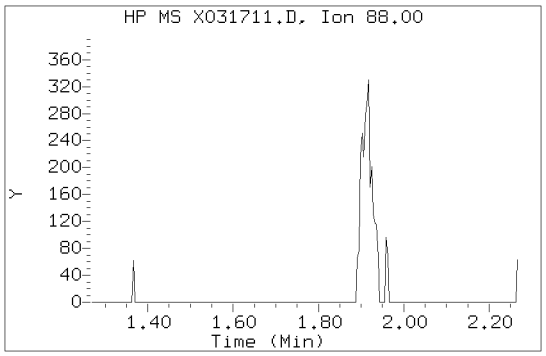

Propylene oxide ()

Reason Code:

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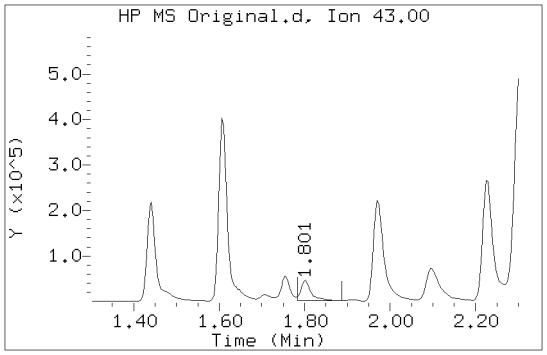

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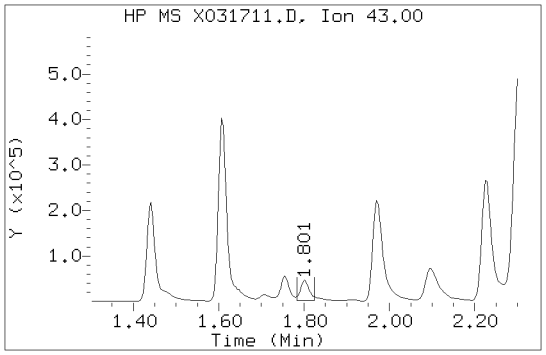

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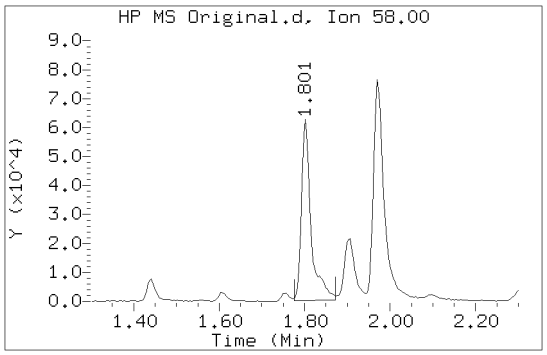

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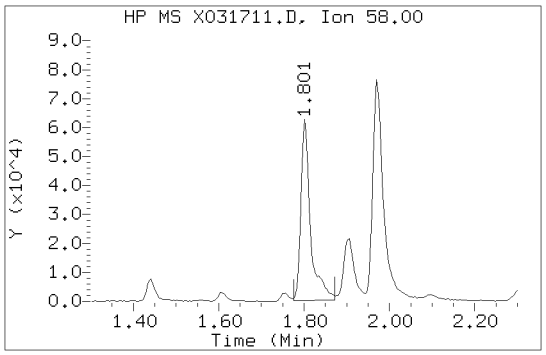

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Inj Date : 17-MAR-2023 14:58
InstruID : voa6.i
LabSampID : VSTD200

Acetaldehyde (75-07-0)

Reason Code:

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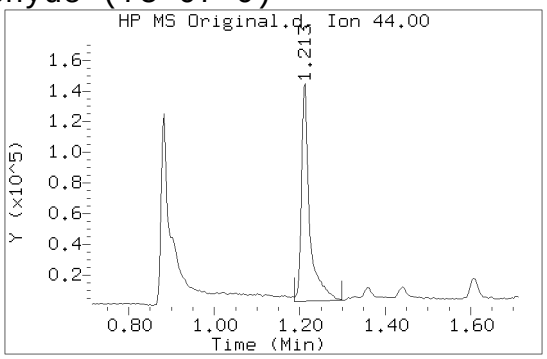

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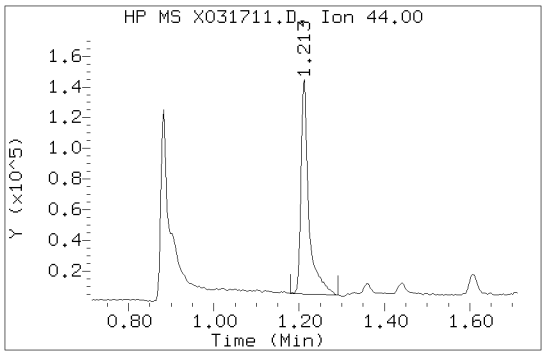

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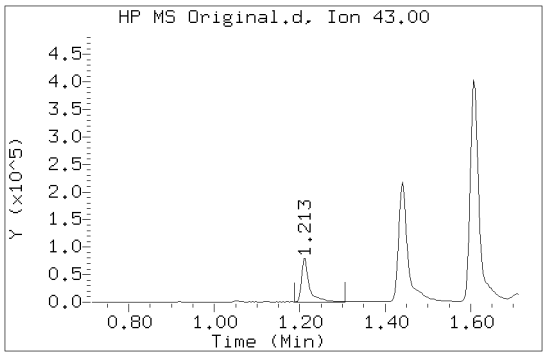

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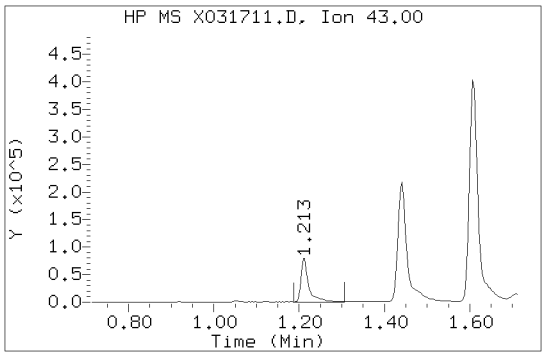

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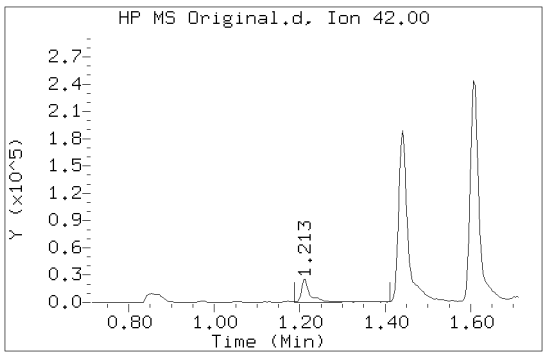

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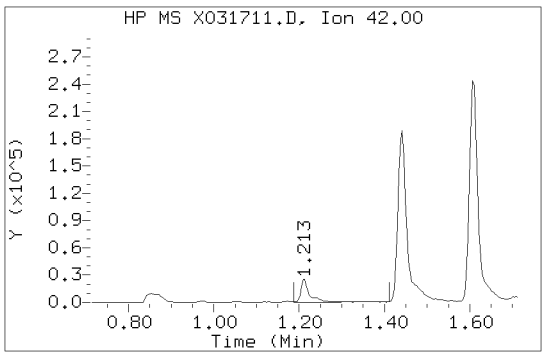

Isobutylene (115-11-7)

Reason Code:

BEFORE

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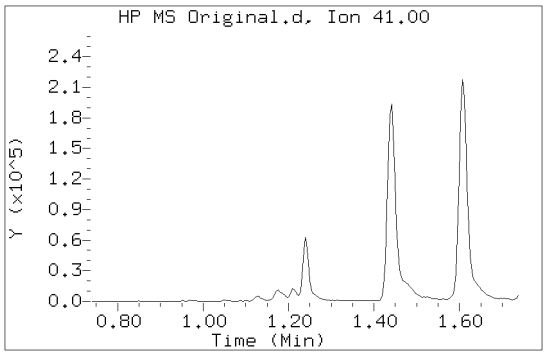

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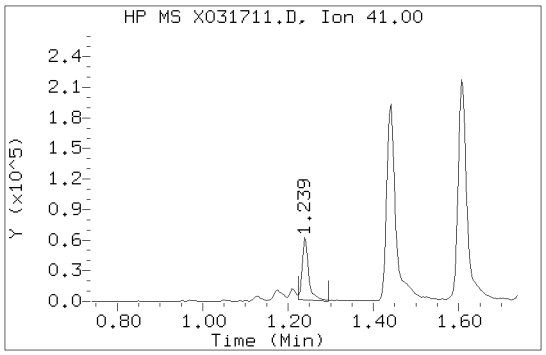

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Inj Date : 17-MAR-2023 14:58
InstruID : voa6.i
LabSampID : VSTD200

Isobutylene (115-11-7)

Reason Code:

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12:34
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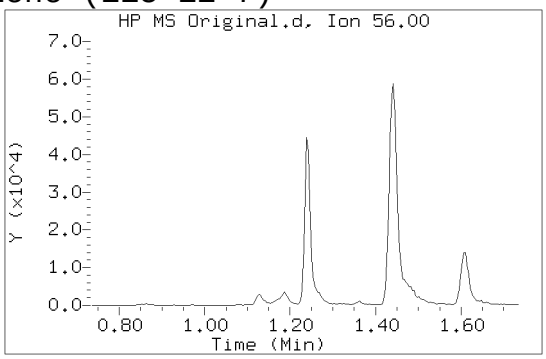

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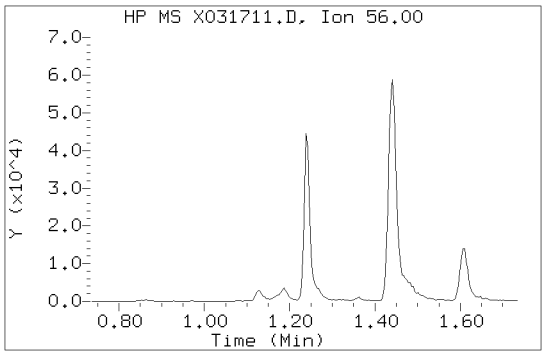

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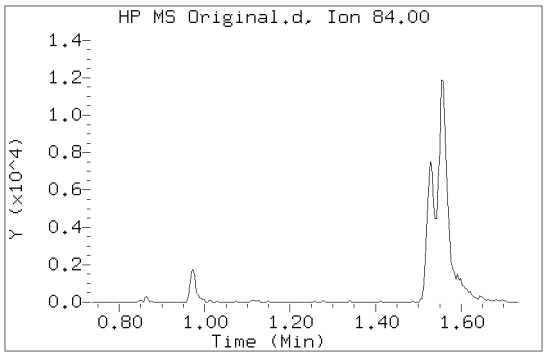

AFTER
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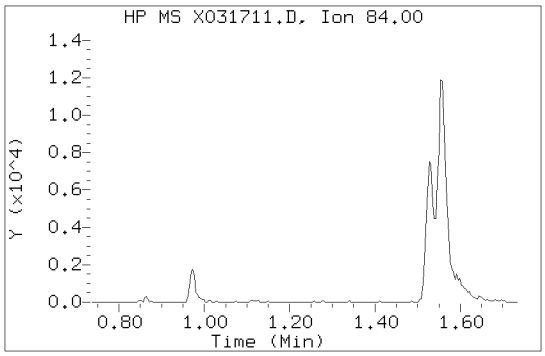

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Report Date: 30-Mar-2023 12:41

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

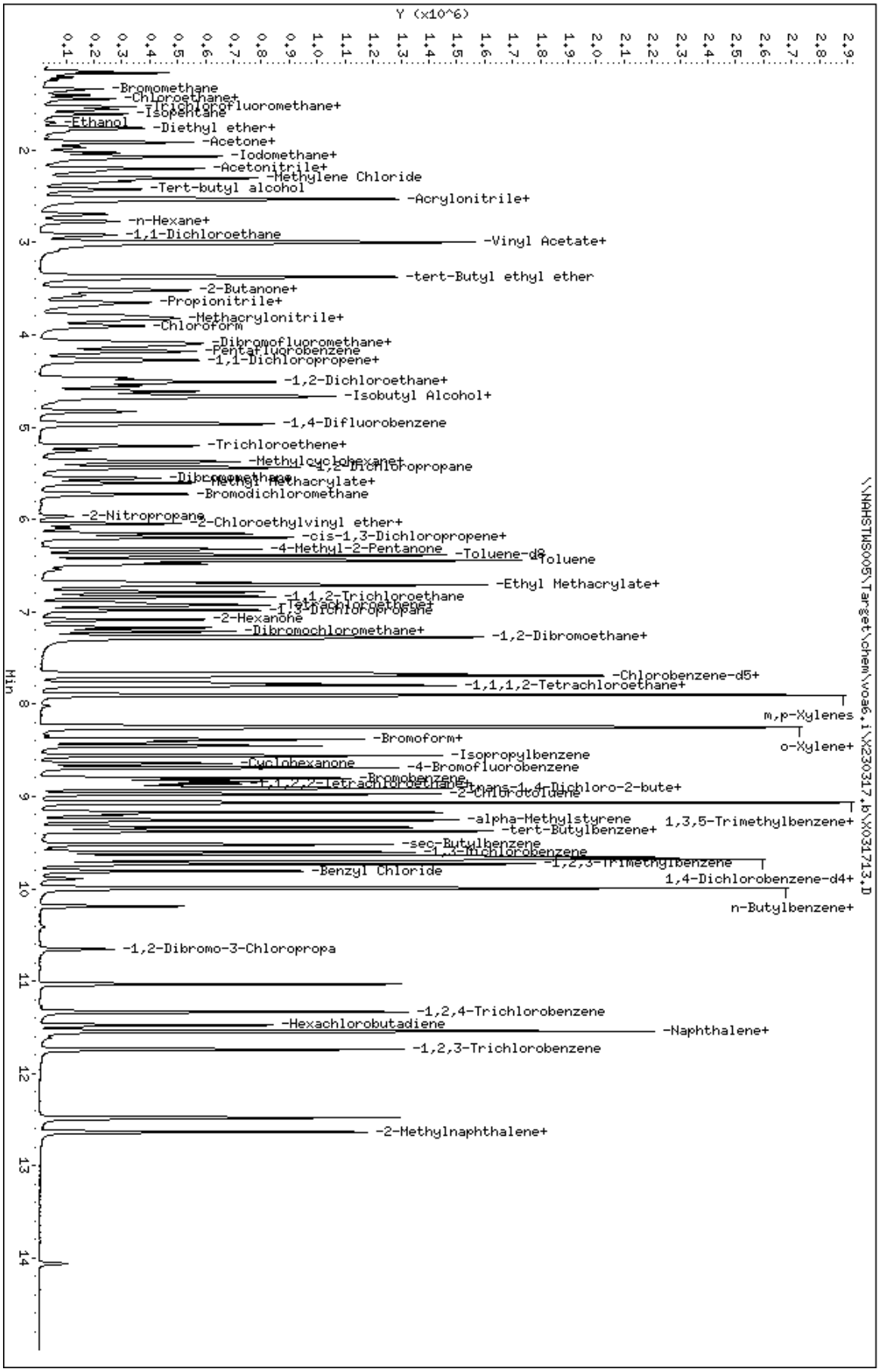
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.336	9.336	(0.966)	539588	42.9532	42.95
79	1,2,4-Trimethylbenzene	105	9.377	9.381	(0.971)	738107	45.6311	45.63
81	sec-Butylbenzene	105	9.519	9.523	(0.985)	716233	42.0655	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.



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

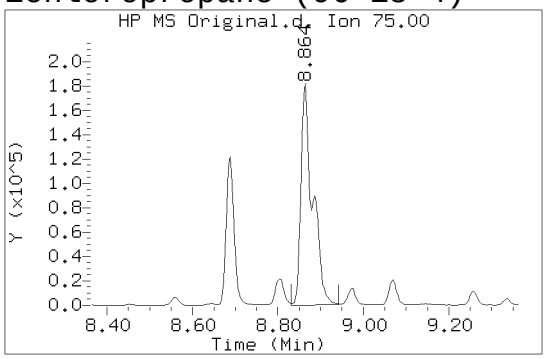
Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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)

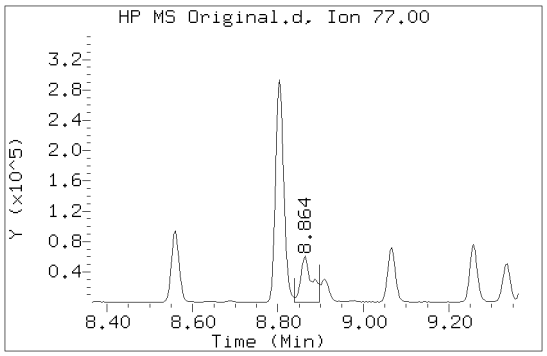
BEFORE

MASS
75
AREA
352133
HEIGHT
181625
30-Mar-2023
12:34
linh
pham



BEFORE

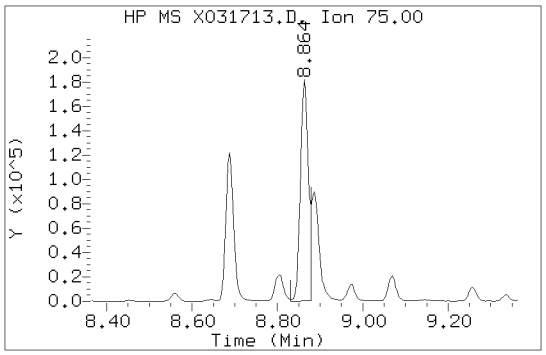
MASS
77
AREA
115864
HEIGHT
60650
30-Mar-2023
12:34
linh
pham



Reason Code:

AFTER

MASS
75
AREA
247298
HEIGHT
181625
30-Mar-2023
12:41
linh
pham



AFTER

MASS
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30-Mar-2023
12:41
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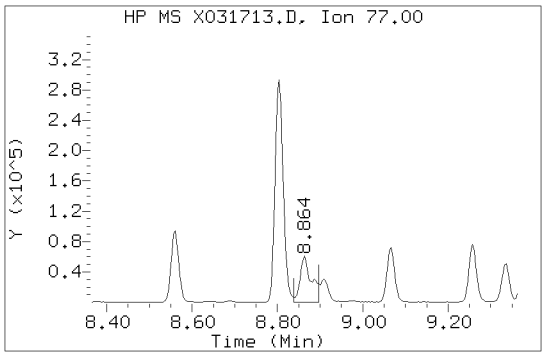

Chloroprene (126-99-8)

BEFORE

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AREA
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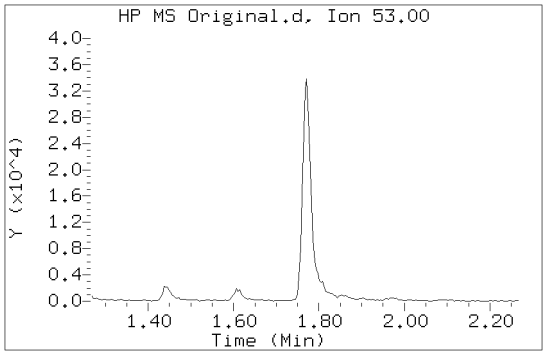
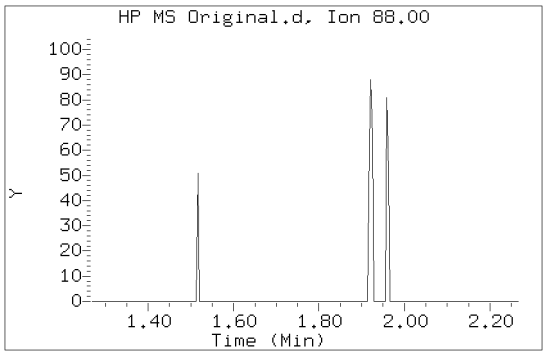
HEIGHT
0
30-Mar-2023
12:34
linh
pham



BEFORE

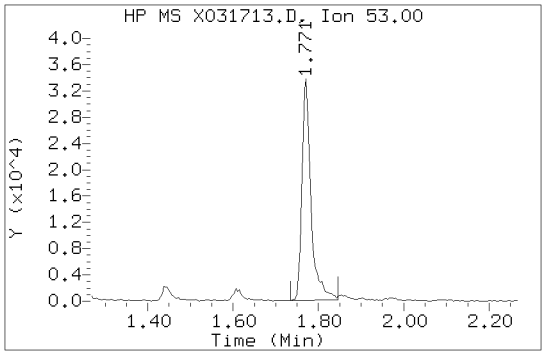
MASS
88
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
pham



Reason Code:

AFTER

MASS
53
AREA
51295
HEIGHT
33689
30-Mar-2023
12:41
linh
pham



AFTER

MASS
88
AREA
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HEIGHT
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30-Mar-2023
12:41
linh
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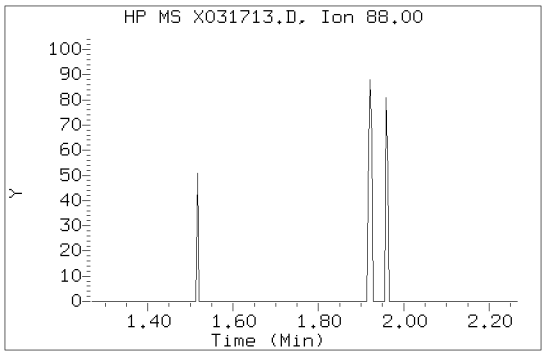

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Inj Date : 17-MAR-2023 15:40
InstruID : voa6.i
LabSampID : ICV

Isoprene (78-79-5)

Reason Code:

BEFORE

MASS
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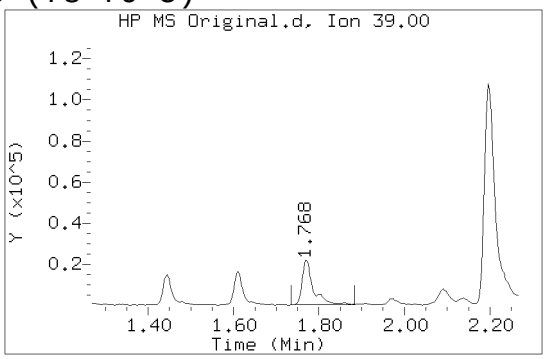
AREA
41500
HEIGHT
21731
30-Mar-2023
12:34
linh
pham



AFTER

MASS
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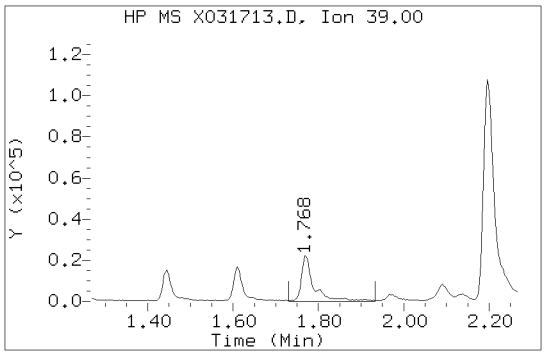
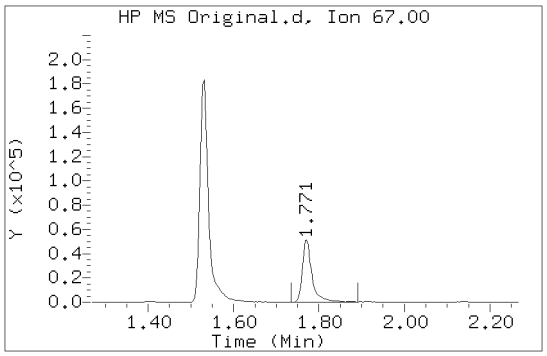
AREA
46906
HEIGHT
22080
30-Mar-2023
12:41
linh
pham



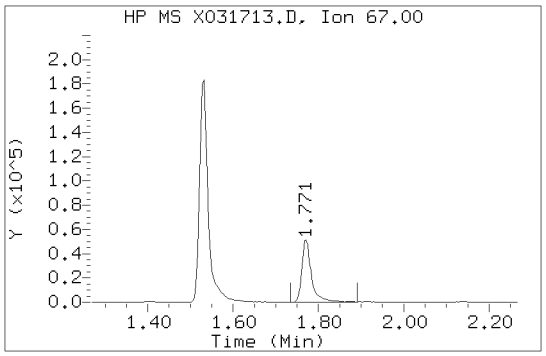
BEFORE

MASS
67
AREA
82608
HEIGHT
51480
30-Mar-2023
12:34
linh
pham



AFTER

MASS
67
AREA
82608
HEIGHT
51480
30-Mar-2023
12:41
linh
pham



BEFORE

MASS
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AREA
52548
HEIGHT
33655
30-Mar-2023
12:34
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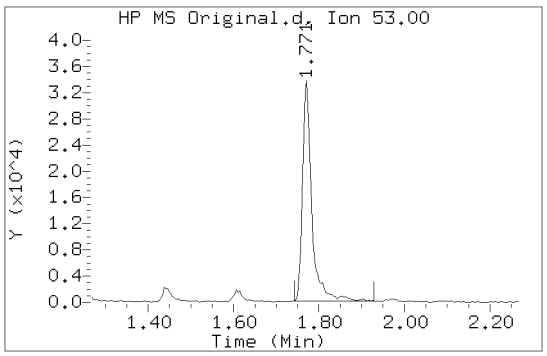
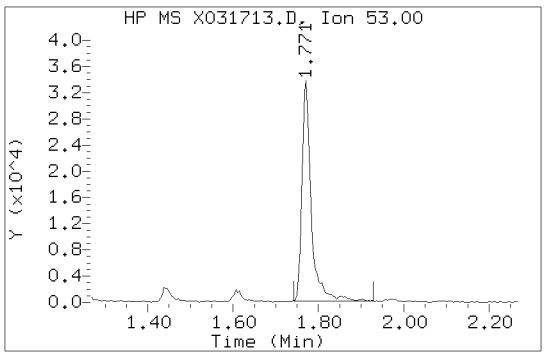
pham



AFTER

MASS
53
AREA
52548
HEIGHT
33655
30-Mar-2023
12:41
linh
pham



Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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AREA
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HEIGHT
50125
30-Mar-2023
12:34
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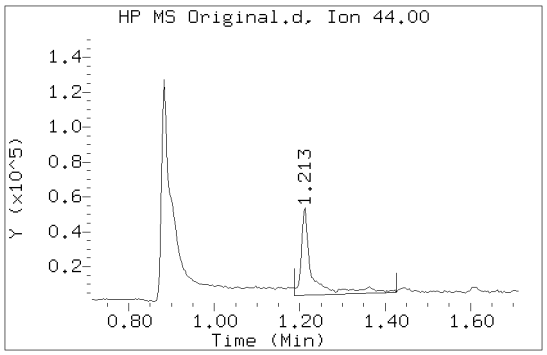
pham



AFTER

MASS
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AREA
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HEIGHT
46607
30-Mar-2023
12:41
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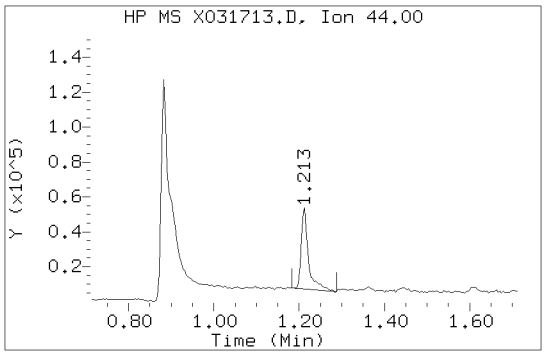
pham



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
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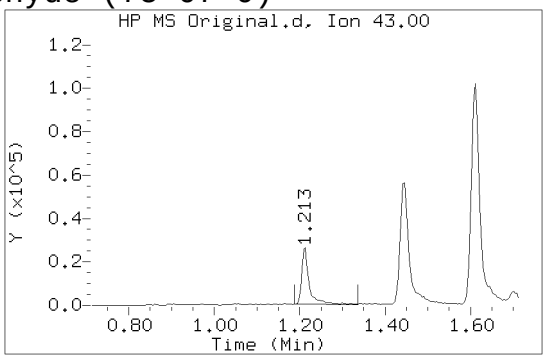
AREA
32748
HEIGHT
26025
30-Mar-2023
12:34
linh
pham



AFTER
MASS
43
AREA
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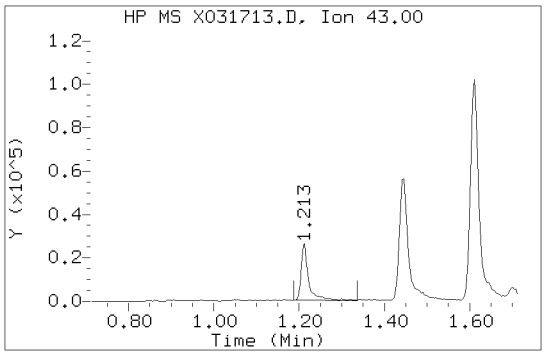
HEIGHT
26025
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
42
AREA
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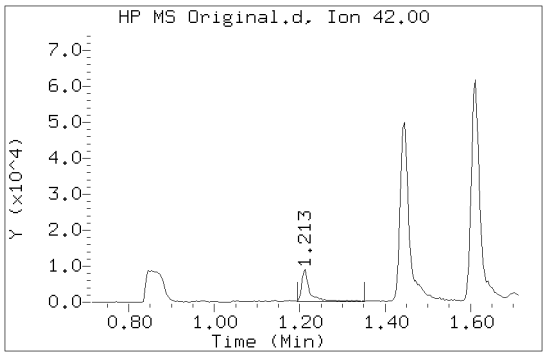
HEIGHT
8969
30-Mar-2023
12:34
linh
pham



AFTER
MASS
42
AREA
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HEIGHT
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30-Mar-2023
12:41
linh
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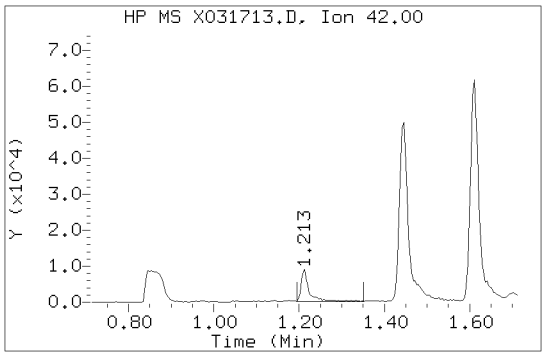
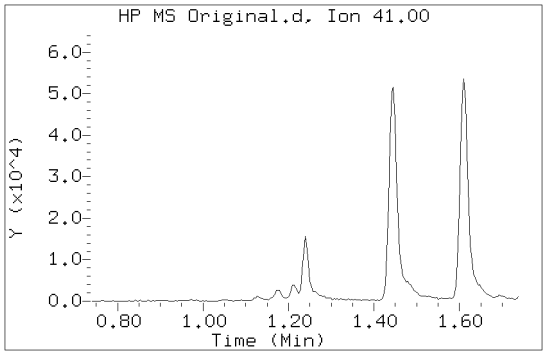


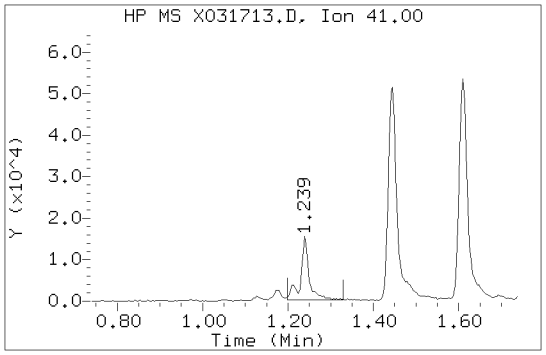
Isobutylene (115-11-7)

Reason Code:

BEFORE
MASS
41
AREA
0
HEIGHT
0
30-Mar-2023
12:34
linh
pham



AFTER
MASS
41
AREA
22110
HEIGHT
15254
30-Mar-2023
12:41
linh
pham



BEFORE
MASS
56
AREA
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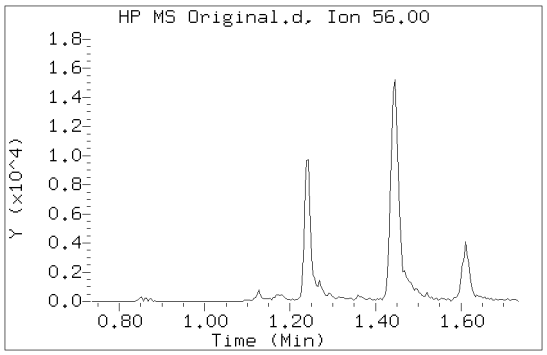
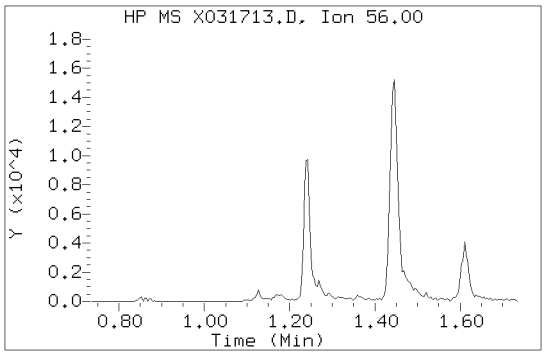
HEIGHT
0
30-Mar-2023
12:34
linh
pham



AFTER
MASS
56
AREA
0
HEIGHT
0
30-Mar-2023
12:41
linh
pham



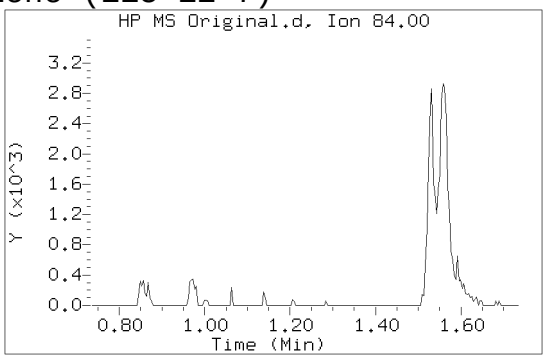
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230317.b\X031713.D
Inj Date : 17-MAR-2023 15:40
InstruID : voa6.i
LabSampID : ICV

Isobutylene (115-11-7)

Reason Code:

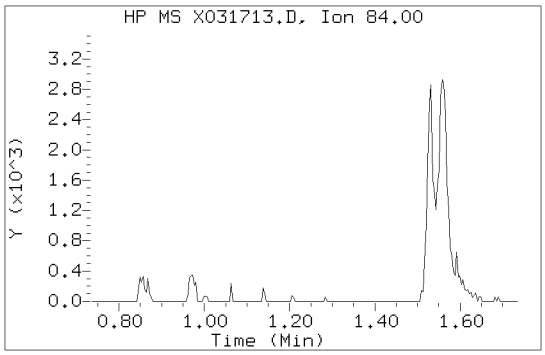
BEFORE

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



right solutions.
right partner.

Raw Data VOA6 431748

Volatiles by EPA 8260

Workorder

HS23031739

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Bi-Weekly Samples

04/10/2023

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\X230404.b\X040401.D Page 1
Report Date: 04-Apr-2023 11:08

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040401.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 04-APR-2023 10:45
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\X230404.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	148864			0.00- 100.00	100.00
8.687	8.889	(0.000)	50	23224			15.00- 40.00	15.60
8.687	8.889	(0.000)	75	66536			30.00- 60.00	44.70
8.687	8.889	(0.000)	96	9625			5.00- 9.00	6.47
8.687	8.889	(0.000)	173	666			0.00- 2.00	0.51
8.687	8.889	(0.000)	174	131048			50.00- 0.00	88.03
8.687	8.889	(0.000)	175	9462			5.00- 9.00	7.22
8.687	8.889	(0.000)	176	124736			95.00- 101.00	95.18
8.687	8.889	(0.000)	177	8628			5.00- 9.00	6.92

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.60
75	30.00 - 60.00% of mass 95	44.70
96	5.00 - 9.00% of mass 95	6.47
173	Less than 2.00% of mass 174	0.45 (0.51)
174	Greater than 50.00% of mass 95	88.03
175	5.00 - 9.00% of mass 174	6.36 (7.22)
176	95.00 - 101.00% of mass 174	83.79 (95.18)
177	5.00 - 9.00% of mass 176	5.80 (6.92)

Data File: X040401.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1011	65.00	95	96.00	9625	141.90	137
37.00	5745	65.80	83	97.00	319	142.80	1148
38.00	4459	67.00	487	98.10	925	143.90	97
39.10	2446	68.00	12835	98.80	65	144.90	123
40.00	1191	69.00	14039	102.90	98	145.60	257
41.00	1004	69.90	1546	103.80	496	146.50	60
42.00	1030	71.00	261	105.00	276	147.90	410
43.00	1035	72.10	578	105.80	510	149.00	107
44.00	1363	73.00	5863	106.90	563	149.70	112
45.10	1157	74.00	21472	108.90	217	151.90	94
45.90	74	75.00	66536	109.90	71	152.80	87
47.00	1260	76.00	6201	112.80	77	154.90	352
47.90	778	77.00	863	115.00	245	156.90	269
49.00	4747	77.90	569	116.00	417	158.70	141
50.00	23224	78.90	3403	117.00	750	160.70	105
51.00	7318	80.00	1174	117.80	418	161.10	87
52.00	465	81.00	2823	118.80	541	172.90	666
53.00	97	81.90	663	119.90	111	173.90	131048
54.00	94	82.90	324	123.90	114	174.90	9462
54.90	1882	84.90	123	126.80	164	175.90	124736
56.10	2307	85.60	120	127.80	439	176.90	8628
57.10	3439	87.00	5689	128.90	263	177.90	360
58.00	319	88.00	5604	129.70	581	186.00	56
60.00	1216	90.90	613	130.80	148	233.80	70
61.00	6356	92.00	3641	134.80	278	236.00	50
62.10	6135	93.00	5875	136.80	165		
63.00	4260	94.00	15024	138.90	69		
63.90	335	95.00	148864	141.00	988		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040401.D

Date : 04-APR-2023 10:45

Client ID: BFB

Instrument: voa6.i

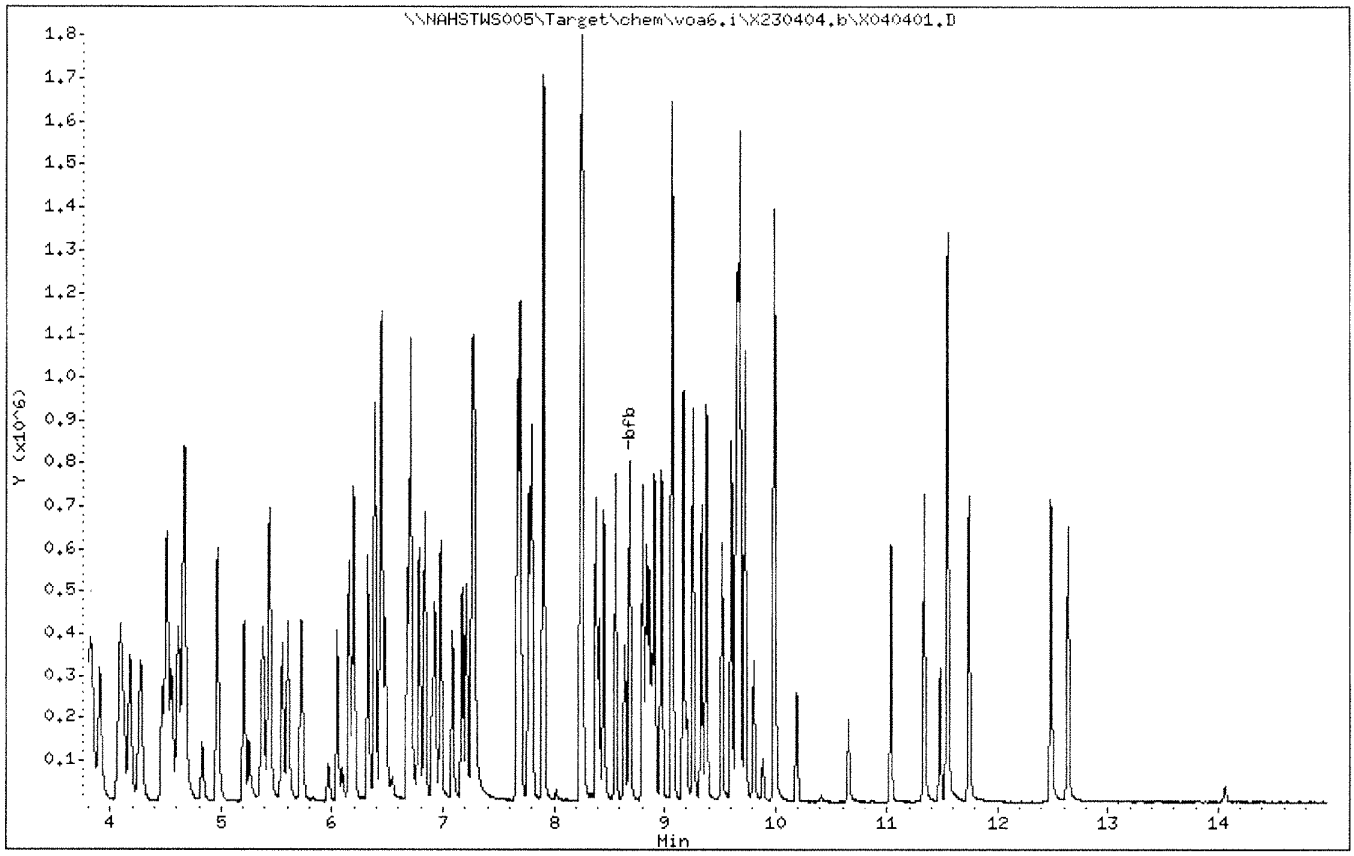
Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0

Operator: PC

Column phase: DB624

Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040401.D

Date : 04-APR-2023 10:45

Client ID: BFB

Instrument: voa6.i

Sample Info: BFB;BFB;3;;BFB

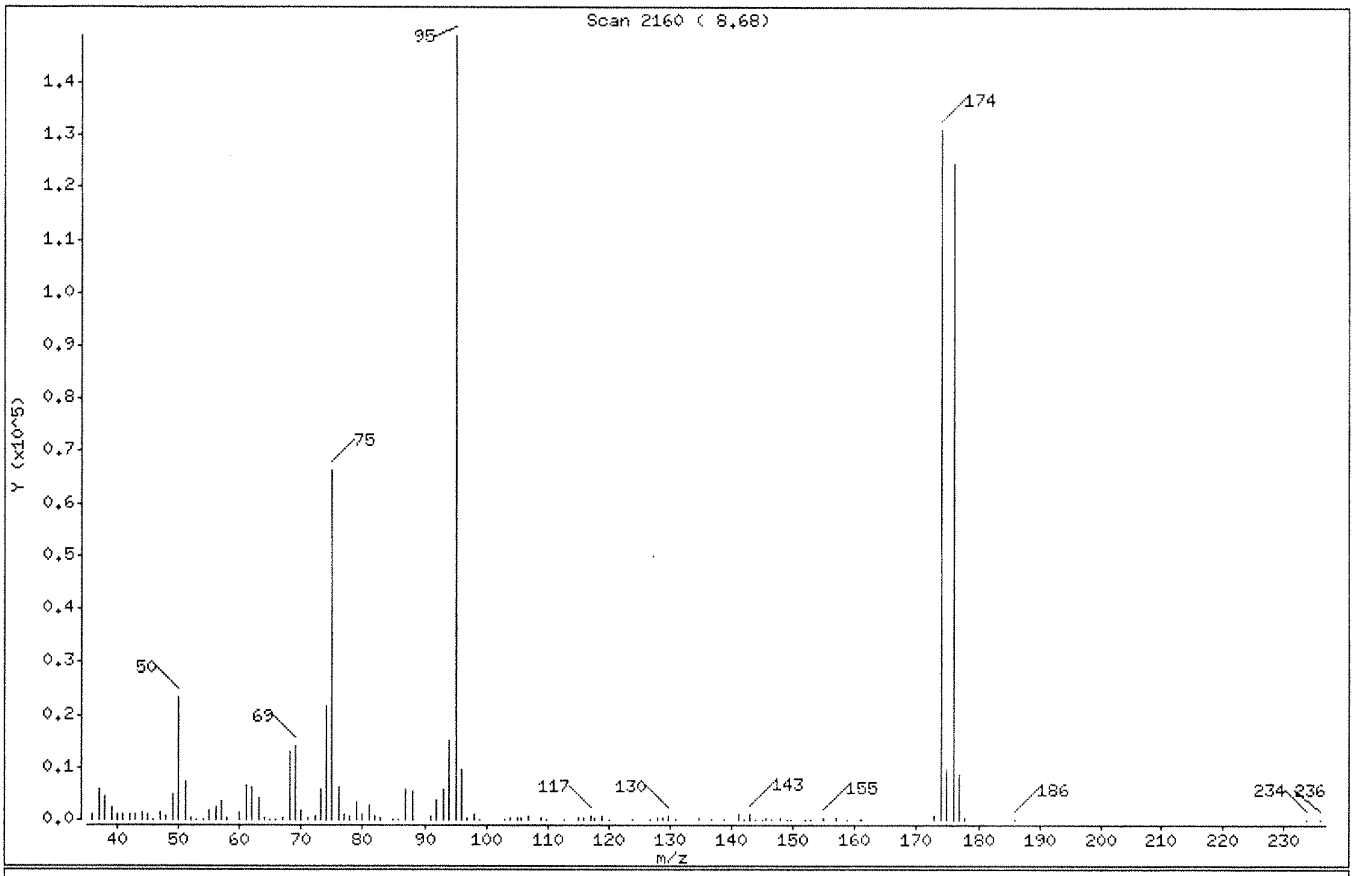
Volume Injected (uL): 2.0

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	15.60
75	30.00 - 60.00% of mass 95	44.70
96	5.00 - 9.00% of mass 95	6.47
173	Less than 2.00% of mass 174	0.45 (0.51)
174	Greater than 50.00% of mass 95	88.03
175	5.00 - 9.00% of mass 174	6.36 (7.22)
176	95.00 - 101.00% of mass 174	83.79 (95.18)
177	5.00 - 9.00% of mass 176	5.80 (6.92)

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040401.D

Date : 04-APR-2023 10:45

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: X040401.D
Spectrum: Scan 2160 (8.68)
Location of Maximum: 95.00
Number of points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1011	65.00	95	96.00	9625	141.90	137
37.00	5745	65.80	83	97.00	319	142.80	1148
38.00	4459	67.00	487	98.10	925	143.90	97
39.10	2446	68.00	12835	98.80	65	144.90	123
40.00	1191	69.00	14039	102.90	98	145.60	257
41.00	1004	69.90	1546	103.80	496	146.50	60
42.00	1030	71.00	261	105.00	276	147.90	410
43.00	1035	72.10	578	105.80	510	149.00	107
44.00	1363	73.00	5863	106.90	563	149.70	112
45.10	1157	74.00	21472	108.90	217	151.90	94
45.90	74	75.00	66536	109.90	71	152.80	87
47.00	1260	76.00	6201	112.80	77	154.90	352
47.90	778	77.00	863	115.00	245	156.90	269
49.00	4747	77.90	569	116.00	417	158.70	141
50.00	23224	78.90	3403	117.00	750	160.70	105
51.00	7318	80.00	1174	117.80	418	161.10	87
52.00	465	81.00	2823	118.80	541	172.90	666
53.00	97	81.90	663	119.90	111	173.90	131048
54.00	94	82.90	324	123.90	114	174.90	9462
54.90	1882	84.90	123	126.80	164	175.90	124736
56.10	2307	85.60	120	127.80	439	176.90	8628
57.10	3439	87.00	5689	128.90	263	177.90	360
58.00	319	88.00	5604	129.70	581	186.00	56
60.00	1216	90.90	613	130.80	148	233.80	70
61.00	6356	92.00	3641	134.80	278	236.00	50
62.10	6135	93.00	5875	136.80	165		
63.00	4260	94.00	15024	138.90	69		
63.90	335	95.00	148864	141.00	988		

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040403.D Page 1
Report Date: 10-Apr-2023 15:09

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040403.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 04-APR-2023 11:27
Operator : PC Inst ID: voa6.i
Smp Info : CCV;CCV;2;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\8260W.m
Meth Date : 10-Apr-2023 15:09 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	4.177	4.177	(1.000)	346342	50.0000	
135 1,4-Dioxane	88	5.598	5.598	(1.340)	48341	1000.00	1051.88
140 1,3-Butadiene	54	1.167	1.167	(0.280)	103135	50.0000	43.90
25 Methacrylonitrile	41	3.818	3.818	(0.914)	155484	50.0000	48.70
12 Isobutyl Alcohol	43	4.672	4.672	(1.118)	463998	1000.00	981.94
13 Acetonitrile	39	2.194	2.194	(0.525)	121405	500.000	376.63
14 Allyl Chloride	41	2.194	2.194	(0.525)	287333	50.0000	36.03
4 Propionitrile	54	3.649	3.649	(0.873)	225650	500.000	462.39
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	64038	50.0000	57.88
194 Acetaldehyde	44	1.212	1.212	(0.290)	37616	200.000	181.95(M)
23 Chloroprene	53	1.775	1.775	(0.425)	40844	50.0000	43.00(M)
156 Diisopropyl ether	45	3.000	3.000	(0.718)	484323	50.0000	45.04
2 Dichlorodifluoromethane	85	0.976	0.976	(0.234)	128817	50.0000	54.19
3 Chloromethane	50	1.081	1.081	(0.259)	157403	50.0000	49.40
5 Vinyl Chloride	62	1.145	1.145	(0.274)	133354	50.0000	48.88
6 Bromomethane	94	1.343	1.343	(0.322)	81205	50.0000	51.77
7 Chloroethane	64	1.403	1.403	(0.336)	77396	50.0000	40.00(M)
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	162869	50.0000	50.33
9 Acrolein	56	1.448	1.448	(0.347)	15120	100.000	77.54(M)
10 Acetone	43	1.973	1.973	(0.472)	73643	100.000	80.28(M)

11 1,1-Dichloroethene	96	1.917	1.917 (0.459)	96068	50.0000	46.19
15 Iodomethane	142	2.029	2.029 (0.486)	323522	100.000	127.53

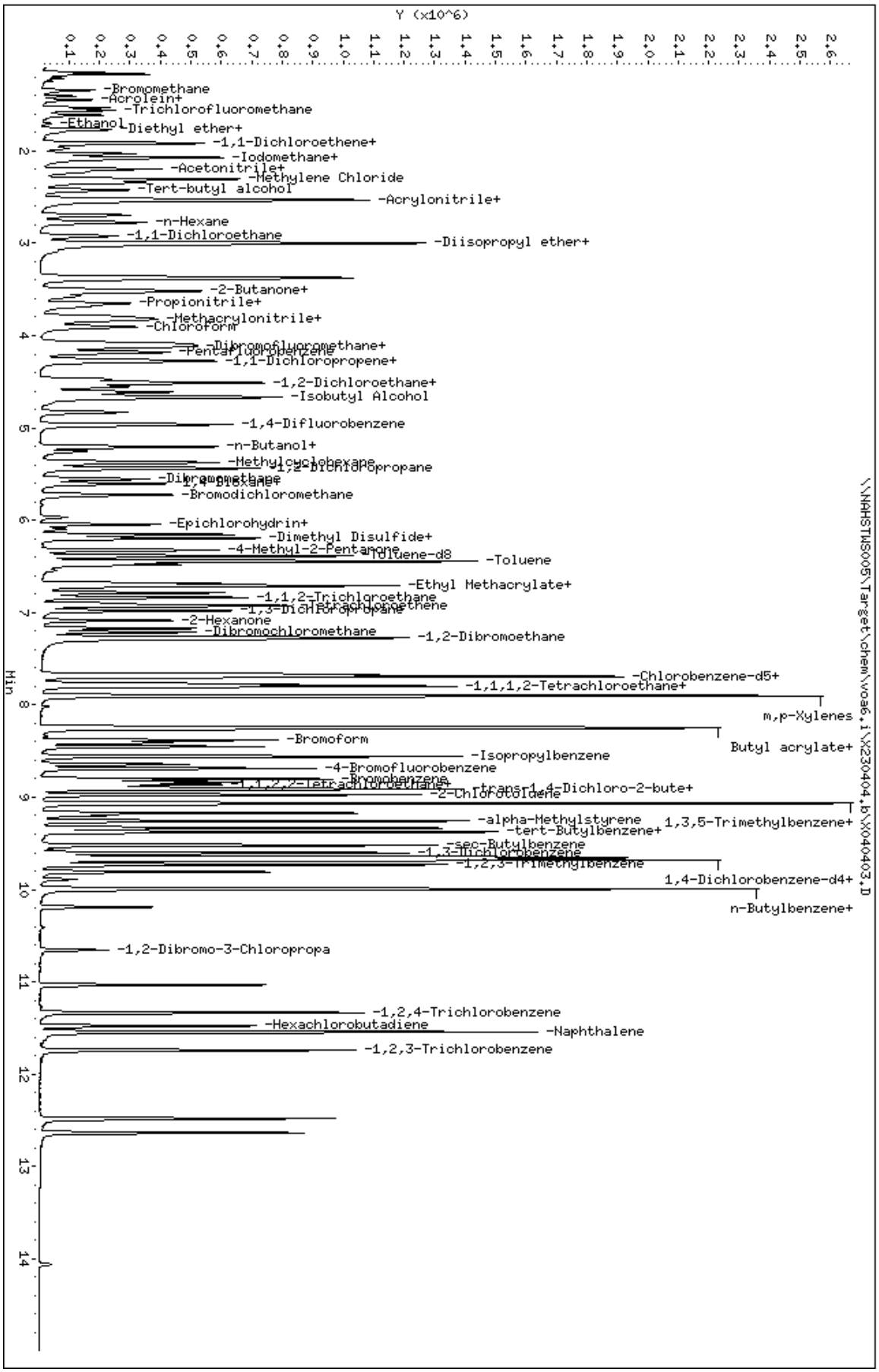
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	16 Acrylonitrile	53	2.532	2.532	(0.606)	111347	100.000	96.33
	17 Methylene Chloride	84	2.303	2.303	(0.551)	175972	50.0000	52.03
	18 Methyl tert-butyl ether	73	2.532	2.532	(0.606)	495677	50.0000	45.26
	19 Carbon Disulfide	76	2.071	2.071	(0.496)	739914	100.000	96.82
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	154152	50.0000	52.54
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	929115	100.000	105.11
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	273295	50.0000	51.44
	24 2-Butanone	43	3.574	3.574	(0.856)	128097	100.000	103.29
	26 2,2-Dichloropropane	77	3.510	3.510	(0.840)	247659	50.0000	59.22
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	184145	50.0000	51.87
	28 Chloroform	83	3.904	3.904	(0.935)	302095	50.0000	51.23
	29 Bromochloromethane	128	3.795	3.795	(0.908)	97820	50.0000	48.69
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	158406	50.0000	49.06
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	253711	50.0000	57.53
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	218669	50.0000	58.05
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	238083	50.0000	54.25
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	210304	50.0000	58.32
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	178843	50.0000	47.93
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	527899	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	684972	50.0000	52.76
	38 Trichloroethene	130	5.205	5.205	(1.048)	197334	50.0000	56.44
	39 Bromodichloromethane	83	5.726	5.726	(1.153)	250216	50.0000	54.30
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	154624	100.000	110.37
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	184117	50.0000	52.63
	44 Dibromomethane	93	5.553	5.553	(1.119)	120672	50.0000	54.08
	45 4-Methyl-2-Pentanone	43	6.322	6.322	(0.824)	328024	100.000	104.46
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	317768	50.0000	54.60
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	496292	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	596480	50.0000	48.48
	50 Toluene	91	6.445	6.445	(0.841)	735046	50.0000	56.45
	51 trans-1,3-Dichloropropene	75	6.678	6.678	(1.345)	272612	50.0000	56.42
	52 2-Hexanone	43	7.086	7.086	(0.924)	223825	100.000	103.85
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	150450	50.0000	53.14
	54 1,3-Dichloropropane	76	6.981	6.981	(0.911)	310852	50.0000	55.25
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	221848	50.0000	55.47
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	156593	50.0000	59.99
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	198805	50.0000	56.81
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	146959	50.0000	57.93
	59 Chlorobenzene	112	7.694	7.694	(1.003)	512418	50.0000	55.06
	60 1,1,1,2-Tetrachloroethane	131	7.772	7.772	(1.014)	199066	50.0000	55.51
	61 Ethylbenzene	106	7.799	7.799	(1.017)	255039	50.0000	55.69
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	647090	100.000	112.27
	63 o-Xylene	106	8.241	8.241	(1.075)	319091	50.0000	55.10
	64 Styrene	104	8.256	8.256	(1.077)	549267	50.0000	57.40
	66 Bromoform	173	8.410	8.410	(1.097)	158094	50.0000	57.17
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	763458	50.0000	57.56
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	255260	50.0000	53.25
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	234328	50.0000	49.87
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	275066	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	213192	50.0000	59.18
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	902143	50.0000	59.01
	74 Bromobenzene	156	8.803	8.803	(0.911)	250940	50.0000	56.74

75	1,3,5-Trimethylbenzene	105	9.066	9.066 (0.938)	675159	50.0000	56.93
76	2-Chlorotoluene	91	8.972	8.972 (0.929)	577186	50.0000	56.15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
	77 4-Chlorotoluene	91	9.069	9.069	(0.939)	671619	50.0000	57.97	
	78 tert-Butylbenzene	119	9.336	9.336	(0.966)	551758	50.0000	58.42	
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	693039	50.0000	56.98	
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	754320	50.0000	58.92	
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	683887	50.0000	59.87	
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	429929	50.0000	56.20	
	84 1,4-Dichlorobenzene	146	9.680	9.680	(1.002)	446720	50.0000	54.34	
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	583558	50.0000	63.38	
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	432161	50.0000	56.49	
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	47527	50.0000	53.72	
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	309270	50.0000	55.29	
	91 Hexachlorobutadiene	225	11.476	11.476	(1.188)	125371	50.0000	56.72	
	92 Naphthalene	128	11.540	11.540	(1.194)	728324	50.0000	54.25	
	93 1,2,3-Trichlorobenzene	180	11.738	11.738	(1.215)	296313	50.0000	55.36	
M	94 1,2-Dichloroethylene (total)	96				338297	100.000	(a)	
	141 Cyclohexane	56	4.121	4.121	(0.987)	220659	50.0000	58.77	
	138 Freon TF	101	1.917	1.917	(0.459)	106551	50.0000	55.00	
	147 Methylcyclohexane	55	5.381	5.381	(1.084)	372227	50.0000	51.06	
	146 Methyl Acetate	43	2.232	2.232	(0.534)	89833	50.0000	45.12	
	148 Tert-Butyl alcohol	59	2.427	2.427	(0.581)	341880	1000.00	942.59	
	149 Isopropyl Alcohol	45	2.093	2.093	(0.501)	177520	1000.00	915.95	

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 : 04-APR-2023 11:27
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\X230404.b\X040403.D
Inj Date : 04-APR-2023 11:27
InstruID : voa6.i
LabSampID : CCV

Chloroethane (75-00-3)

Reason Code:

BEFORE

MASS
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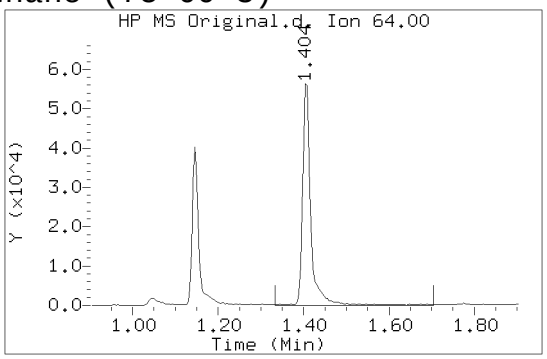
AREA
77396
HEIGHT
56357
10-Apr-2023
15:09
linh
pham



AFTER

MASS
64
AREA
77396
HEIGHT
56357
10-Apr-2023
15:09
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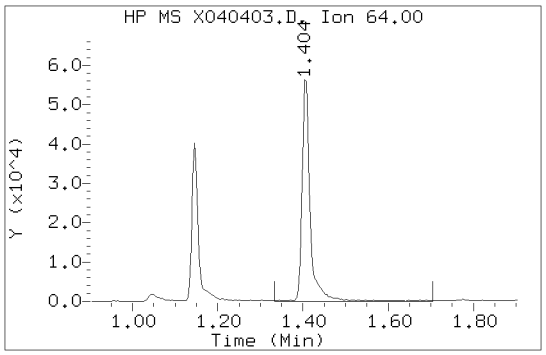
pham



BEFORE

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AREA
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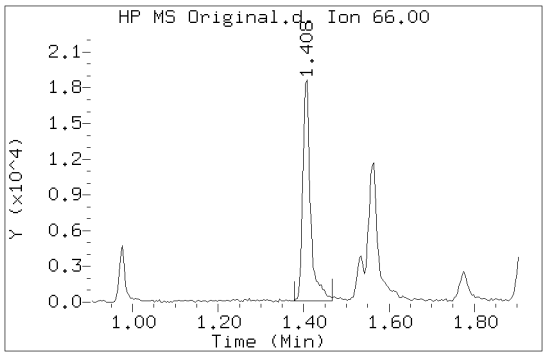
HEIGHT
18551
10-Apr-2023
15:09
linh
pham



AFTER

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AREA
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10-Apr-2023
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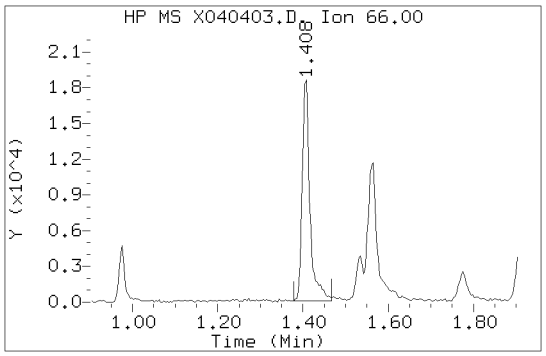

Acrolein (107-02-8)

Reason Code:

BEFORE

MASS
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AREA
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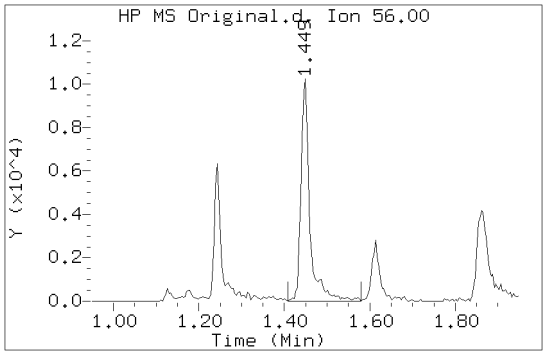
HEIGHT
10246
10-Apr-2023
15:09
linh
pham



AFTER

MASS
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AREA
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10246
10-Apr-2023
15:09
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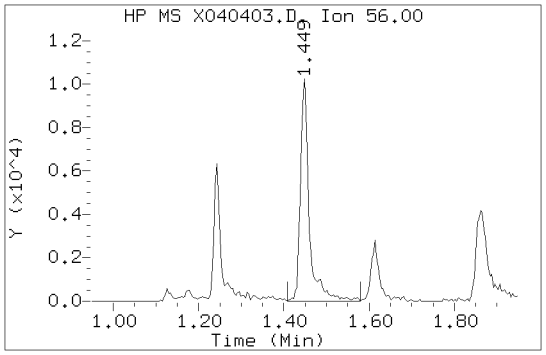

BEFORE

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AREA
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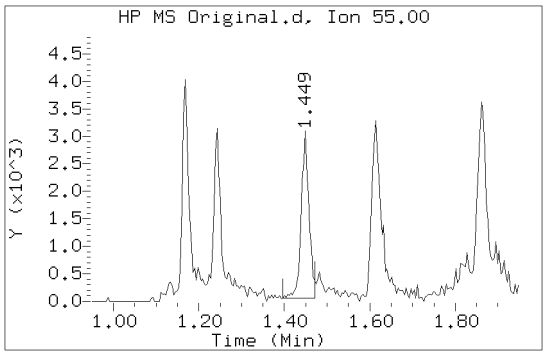
HEIGHT
3041
10-Apr-2023
15:09
linh
pham



AFTER

MASS
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3917
HEIGHT
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10-Apr-2023
15:09
linh
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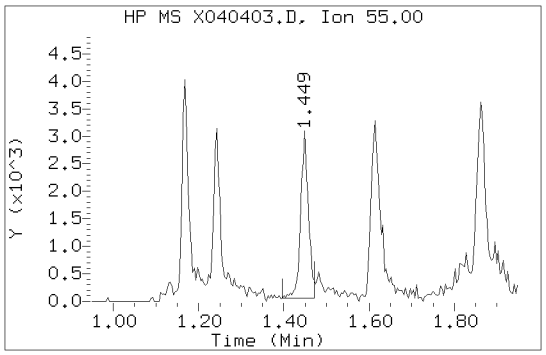

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Inj Date : 04-APR-2023 11:27
InstruID : voa6.i
LabSampID : CCV

Acetone (67-64-1)

Reason Code:

BEFORE
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AREA
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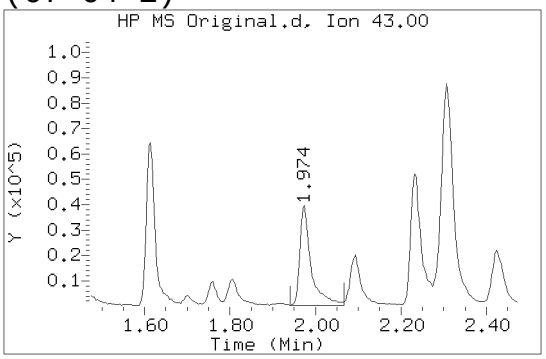
HEIGHT
39469
10-Apr-2023
15:09
linh
pham



AFTER
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39469
10-Apr-2023
15:09
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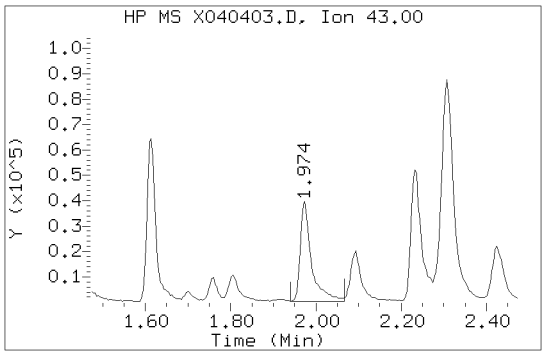

BEFORE
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AREA
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HEIGHT
13802
10-Apr-2023
15:09
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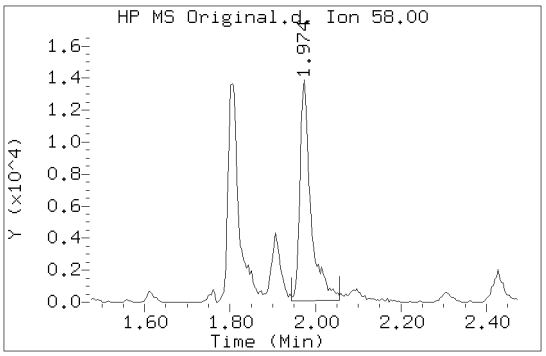
pham



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HEIGHT
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10-Apr-2023
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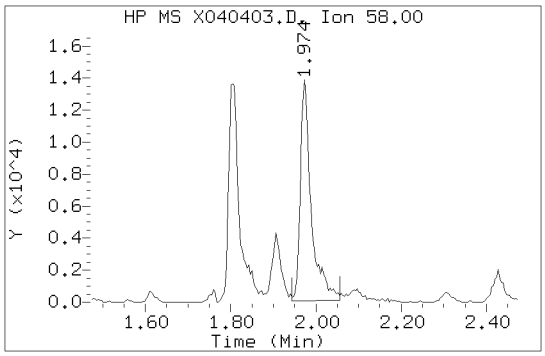

Chloroprene (126-99-8)

Reason Code:

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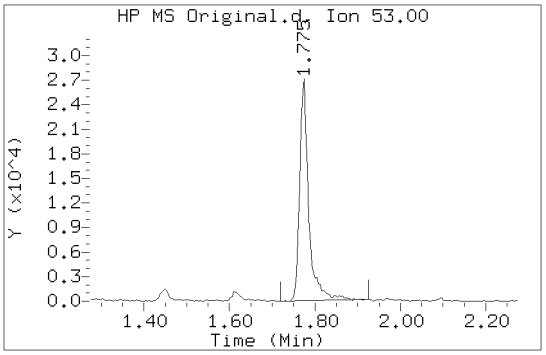

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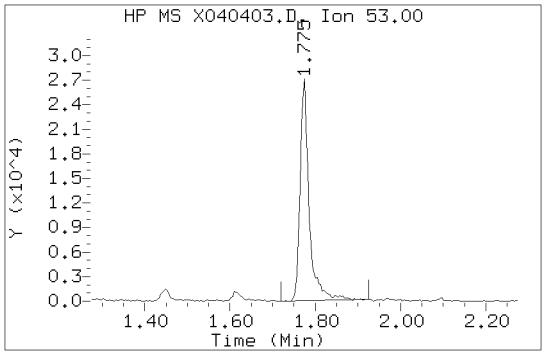

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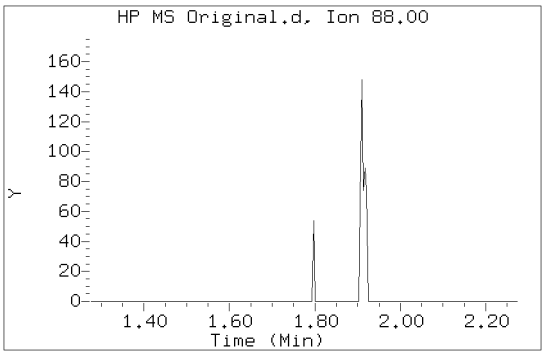

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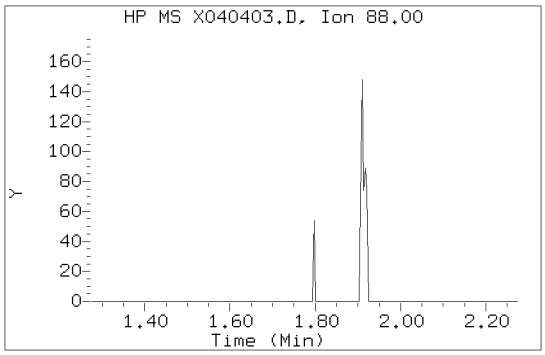

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Inj Date : 04-APR-2023 11:27
InstruID : voa6.i
LabSampID : CCV

Acetaldehyde (75-07-0)

Reason Code:

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10-Apr-2023
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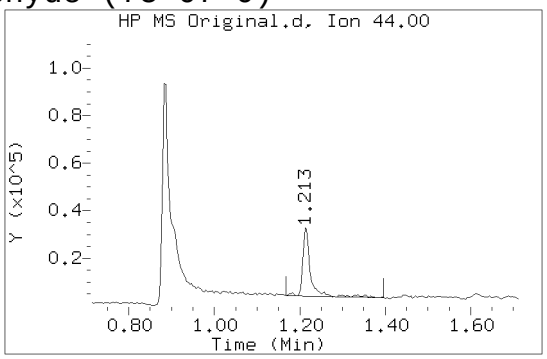

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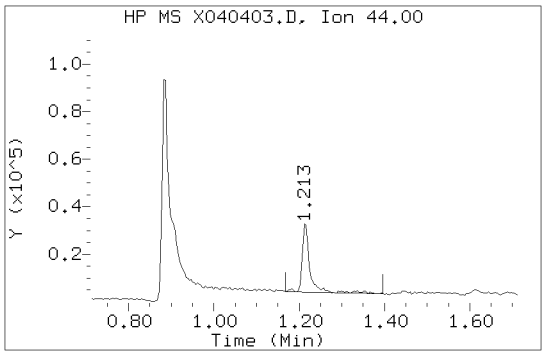

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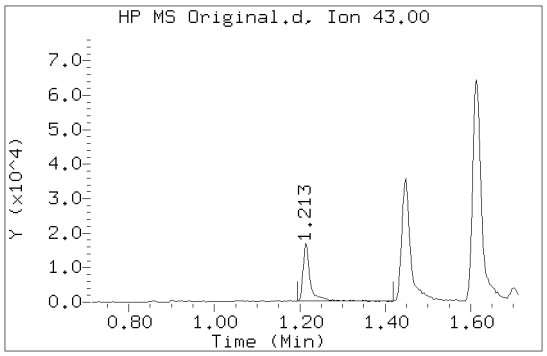

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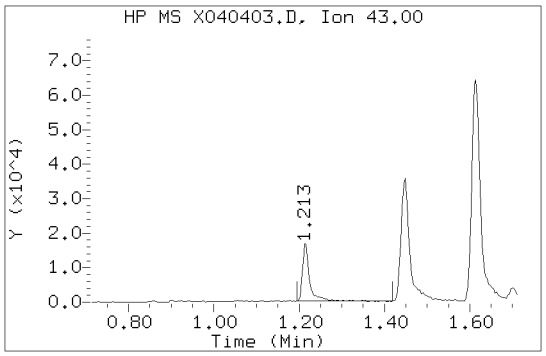

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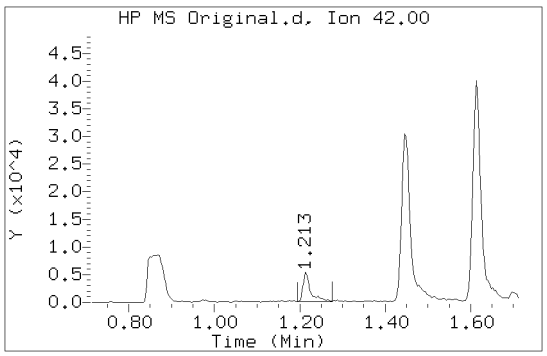

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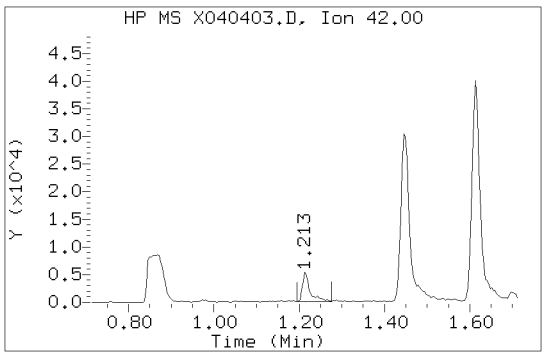


Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040404.D Page 1
Report Date: 04-Apr-2023 18:48

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040404.D
Lab Smp Id: CCB Client Smp ID: CCB
Inj Date : 04-APR-2023 11:48
Operator : PC Inst ID: voa6.i
Smp Info : CCB;CCB;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa6.i\X230404.b\8260W.m
Meth Date : 04-Apr-2023 11:47 pcabasca 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: NAHSTWS005

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	4.177	(1.000)	416971	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	176565	45.3729	45.37
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	206836	46.0927	46.09
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	643454	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	568666	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	743608	52.7483	52.74
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	252215	46.8363	46.83
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	239911	50.0000	

01186429

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040404.D

Page 1

Date : 04-APR-2023 11:48

Client ID: CCB

Instrument: voa6.i

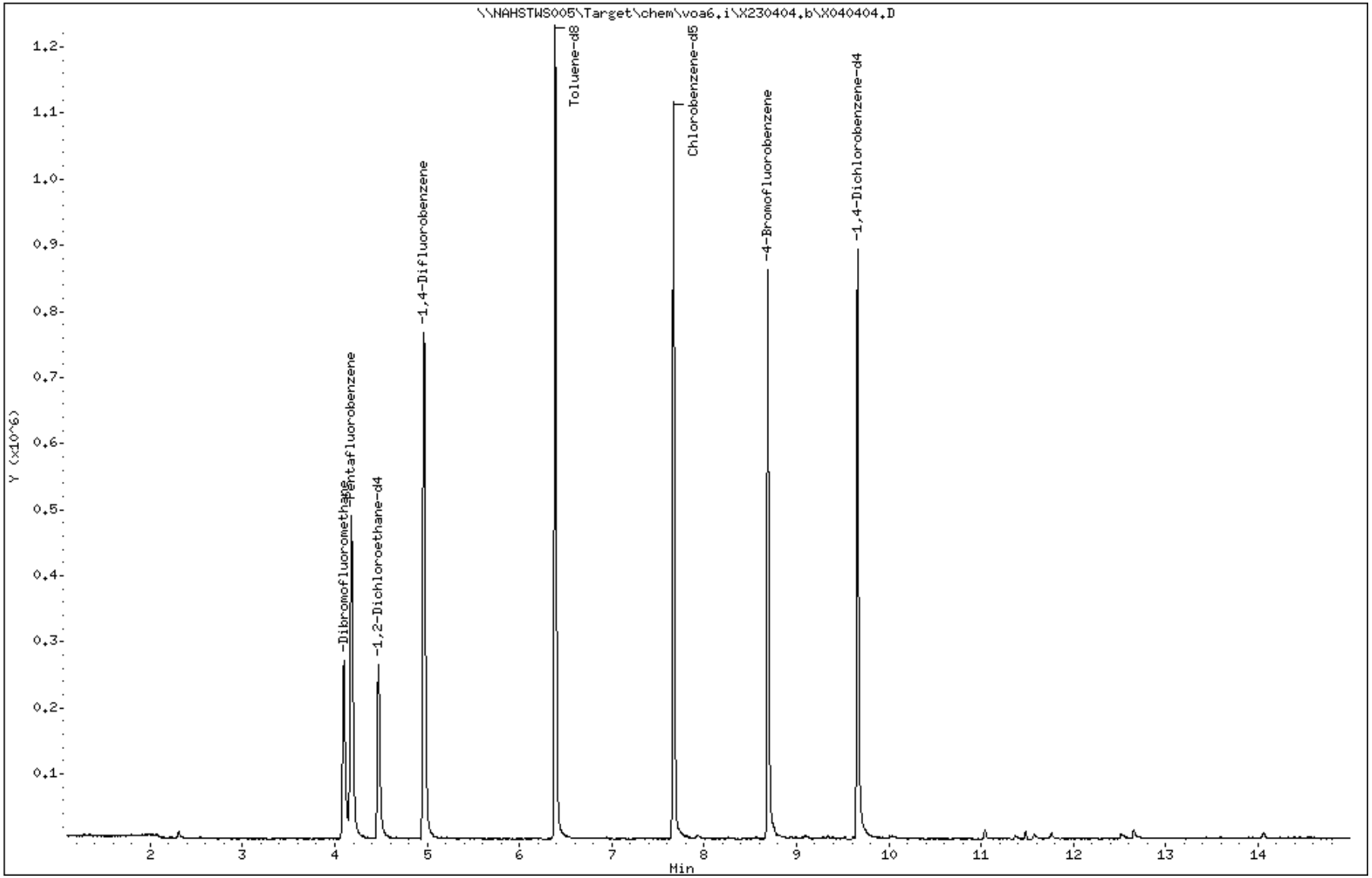
Sample Info: CCB;CCB;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040405.D
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Inj Date : 04-APR-2023 12:09
Operator : PC Inst ID: voa6.i
Smp Info : VLCSW-230404;VLCSW-230404;3;;LCS
Misc Info : V6;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\8260W.m
Meth Date : 10-Apr-2023 15:15 Linh.Pham 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)	319263	50.0000	
135	1,4-Dioxane	88	5.598	5.595	(1.340)	18322	432.497	432.49(a)
140	1,3-Butadiene	54	1.167	1.164	(0.280)	27432	12.6698	12.66
25	Methacrylonitrile	41	3.825	3.818	(0.916)	67701	23.0082	23.00
12	Isobutyl Alcohol	43	4.676	4.672	(1.119)	194791	447.197	447.19
13	Acetonitrile	39	2.198	2.198	(0.526)	57704	194.200	194.20
14	Allyl Chloride	41	2.202	2.198	(0.527)	138942	18.9048	18.90
4	Propionitrile	54	3.653	3.649	(0.874)	97733	217.256	217.25(a)
72	trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	25730	26.1356	26.13
194	Acetaldehyde	44	1.212	1.212	(0.290)	12352	64.2924	64.29(M)
23	Chloroprene	53	1.775	1.771	(0.425)	14363	16.4049	16.40(M)
156	Diisopropyl ether	45	3.001	2.997	(0.718)	198750	20.0520	20.05
2	Dichlorodifluoromethane	85	0.976	0.973	(0.234)	43557	20.7705	20.77
3	Chloromethane	50	1.081	1.077	(0.259)	52759	17.9652	17.96
5	Vinyl Chloride	62	1.145	1.145	(0.274)	40762	16.2098	16.20
6	Bromomethane	94	1.344	1.340	(0.322)	29897	20.6781	20.67
7	Chloroethane	64	1.404	1.404	(0.336)	25883	14.5136	14.51
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	49586	16.6245	16.62
9	Acrolein	56	1.445	1.445	(0.346)	5897	34.6054	34.60
10	Acetone	43	1.973	1.970	(0.472)	36764	41.0918	41.09

11 1,1-Dichloroethene	96	1.917	1.913 (0.459)	33632	17.5421	17.54
15 Iodomethane	142	2.030	2.030 (0.486)	96410	49.2064	49.20

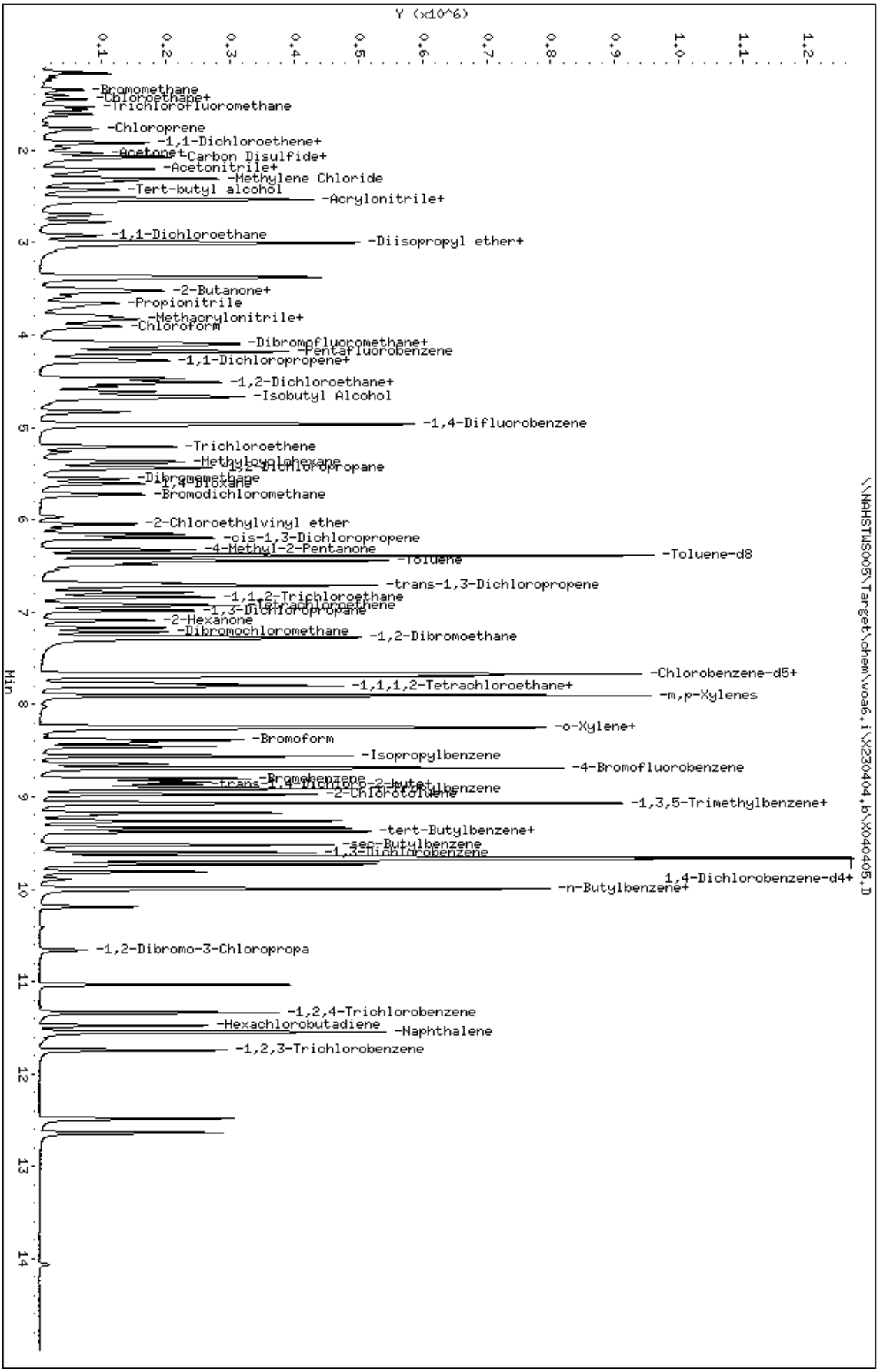
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	16 Acrylonitrile	53	2.539	2.532	(0.608)	43355	40.6934	40.69
	17 Methylene Chloride	84	2.307	2.303	(0.552)	69938	21.4506	21.45
	18 Methyl tert-butyl ether	73	2.536	2.532	(0.607)	205817	20.3881	20.38
	19 Carbon Disulfide	76	2.071	2.067	(0.496)	257822	36.6008	36.60
	20 trans-1,2-Dichloroethene	96	2.532	2.528	(0.606)	58209	21.5263	21.52
	21 Vinyl Acetate	43	3.001	2.997	(0.718)	373952	45.8941	45.89
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	105050	21.4503	21.45
	24 2-Butanone	43	3.582	3.574	(0.857)	50194	43.9096	43.90
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	93902	24.2103	24.21
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.845)	71060	21.7152	21.71
	28 Chloroform	83	3.904	3.904	(0.935)	115906	21.3237	21.32
	29 Bromochloromethane	128	3.799	3.795	(0.909)	37846	20.4370	20.43
$	30 Dibromofluoromethane	113	4.099	4.095	(0.981)	150710	50.6703	50.67
	31 1,1,1-Trichloroethane	97	4.084	4.080	(0.978)	93507	23.0046	23.00
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	78045	22.5637	22.56
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	99911	24.7921	24.79
	34 Carbon Tetrachloride	117	4.268	4.264	(0.860)	74799	22.5902	22.59
$	35 1,2-Dichloroethane-d4	65	4.474	4.470	(1.071)	172896	50.2247	50.22
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	484770	50.0000	
	37 Benzene	78	4.511	4.508	(0.909)	258634	21.6973	21.69
	38 Trichloroethene	130	5.209	5.205	(1.049)	71871	22.3849	22.38
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	95779	22.6359	22.63
	41 2-Chloroethylvinyl ether	63	6.048	6.044	(1.218)	62016	48.2069	48.20
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	70439	21.9277	21.92
	44 Dibromomethane	93	5.553	5.550	(1.119)	47389	23.1275	23.12
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	140984	49.8921	49.89
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	118601	22.1916	22.19
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	446610	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	555499	50.1738	50.17
	50 Toluene	91	6.446	6.446	(0.841)	273358	23.3291	23.32
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	103409	23.3069	23.30
	52 2-Hexanone	43	7.087	7.083	(0.924)	97572	50.3098	50.30
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	59159	23.2222	23.22
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	120781	23.8556	23.85
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	83030	23.0717	23.07
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	54829	23.3421	23.34
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	76586	24.3218	24.32
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	51203	23.3721	23.37
	59 Chlorobenzene	112	7.694	7.690	(1.003)	186236	22.2406	22.24
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	71898	22.2812	22.28
	61 Ethylbenzene	106	7.799	7.799	(1.017)	89999	21.8391	21.83
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	232238	44.7794	44.77
	63 o-Xylene	106	8.241	8.237	(1.075)	116428	22.3412	22.34
	64 Styrene	104	8.260	8.256	(1.077)	199376	23.1535	23.15
	66 Bromoform	173	8.410	8.406	(1.097)	61966	24.9018	24.90
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	268899	22.5289	22.52
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	104542	23.8914	23.89
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	218538	51.6919	51.69
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	251125	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	79607	24.2074	24.20(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	312806	22.4118	22.41
	74 Bromobenzene	156	8.803	8.803	(0.911)	91092	22.5620	22.56

75	1,3,5-Trimethylbenzene	105	9.066	9.066 (0.938)	234765	21.6859	21.68
76	2-Chlorotoluene	91	8.972	8.972 (0.929)	210603	22.4427	22.44

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	77	4-Chlorotoluene	91	9.070	9.070	(0.939)	243052	22.9797	22.97
	78	tert-Butylbenzene	119	9.336	9.332	(0.966)	193223	22.4093	22.40
	79	1,2,4-Trimethylbenzene	105	9.381	9.377	(0.971)	243889	21.9670	21.96
	81	sec-Butylbenzene	105	9.519	9.519	(0.985)	257656	22.0470	22.04
	82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	237827	22.8062	22.80
	83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	155306	22.2409	22.24
	84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	160317	21.3612	21.36
	87	n-Butylbenzene	91	9.996	9.992	(1.035)	200513	23.8571	23.85
	88	1,2-Dichlorobenzene	146	9.996	9.992	(1.035)	157282	22.5192	22.51
	89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	19265	24.6774	24.67
	90	1,2,4-Trichlorobenzene	180	11.338	11.334	(1.173)	108462	21.2411	21.24
	91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	44660	24.0616	24.06
	92	Naphthalene	128	11.544	11.540	(1.195)	266914	21.7792	21.77
	93	1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	91270	18.6792	18.67
M	94	1,2-Dichloroethylene (total)	96				129269	43.2415	43.24
M	95	Xylenes (total)	106				348666	67.1206	67.12
	141	Cyclohexane	56	4.121	4.121	(0.987)	77381	24.0964	24.09
	138	Freon TF	101	1.917	1.913	(0.459)	34427	20.6323	20.63
	147	Methylcyclohexane	55	5.381	5.381	(1.084)	161186	24.0814	24.08
	146	Methyl Acetate	43	2.232	2.232	(0.534)	38080	20.7514	20.75
	148	Tert-Butyl alcohol	59	2.427	2.427	(0.581)	143122	428.071	428.07
	149	Isopropyl Alcohol	45	2.093	2.093	(0.501)	70696	395.710	395.70

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-230404
Sample Info: VLCSW-230404;VLCSW-230404;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa6.i
Operator: PC
Column diameter: 0.18

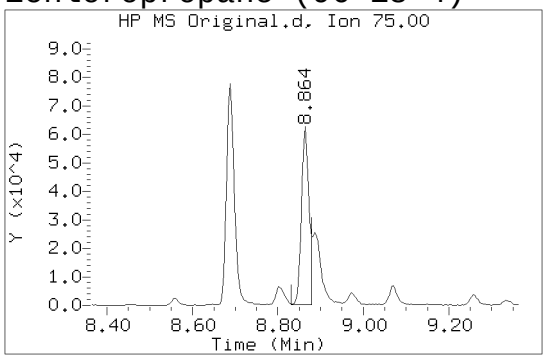
Data File : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040405.D
Inj Date : 04-APR-2023 12:09
InstruID : voa6.i
LabSampID : VLCSW-230404

1,2,3-Trichloropropane (96-18-4)

Reason Code:

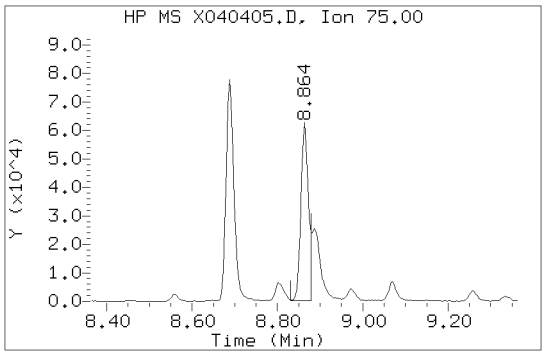
BEFORE

MASS
75
AREA
79607
HEIGHT
62531
10-Apr-2023
15:09
linh
pham



AFTER

MASS
75
AREA
79607
HEIGHT
62531
10-Apr-2023
15:15
linh
pham



BEFORE

MASS
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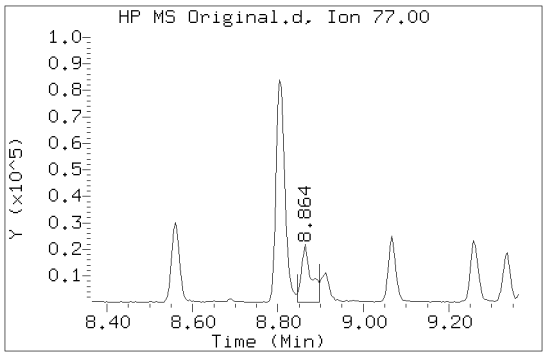
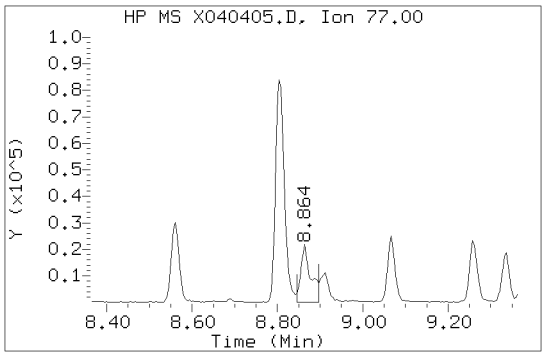
AREA
36492
HEIGHT
21818
10-Apr-2023
15:09
linh
pham



AFTER

MASS
77
AREA
36492
HEIGHT
21818
10-Apr-2023
15:15
linh
pham



Chloroprene (126-99-8)

Reason Code:

BEFORE

MASS
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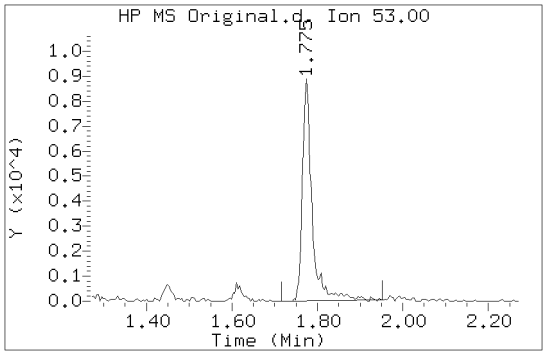
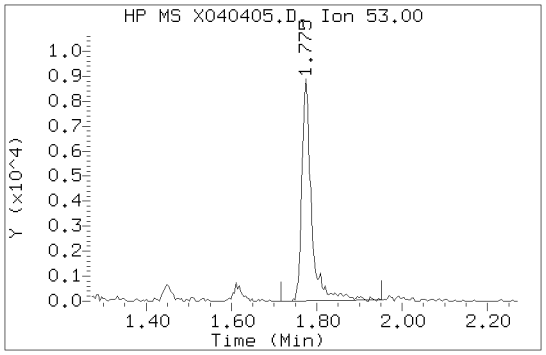
AREA
14363
HEIGHT
8876
10-Apr-2023
15:09
linh
pham



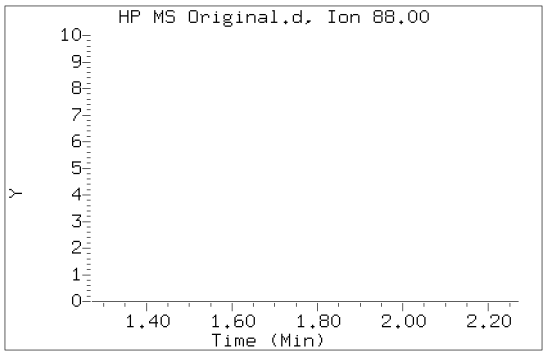
AFTER

MASS
53
AREA
14363
HEIGHT
8876
10-Apr-2023
15:15
linh
pham



BEFORE

MASS
88
AREA
0
HEIGHT
0
10-Apr-2023
15:09
linh
pham



AFTER

MASS
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AREA
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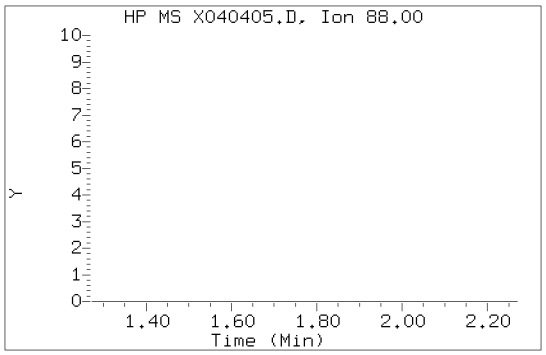
HEIGHT
0
10-Apr-2023
15:15
linh
pham



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040405.D
Inj Date : 04-APR-2023 12:09
InstruID : voa6.i
LabSampID : VLCSW-230404

Acetaldehyde (75-07-0)

Reason Code:

BEFORE
MASS
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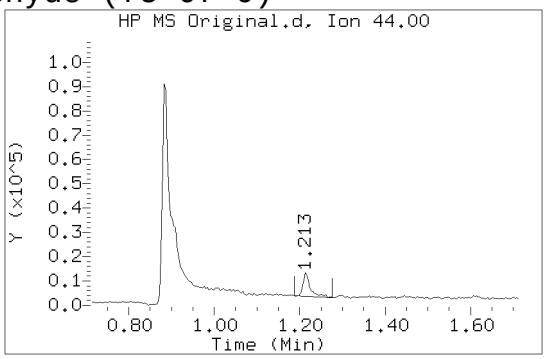
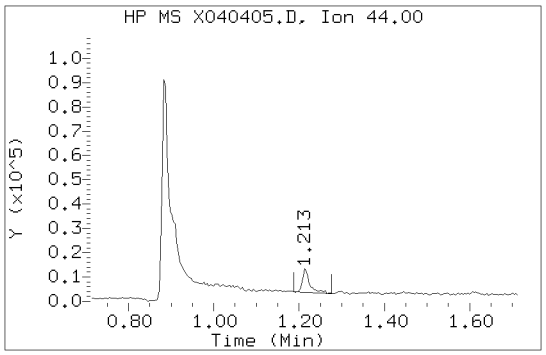
AREA
12352
HEIGHT
9714
10-Apr-2023
15:09
linh
pham



AFTER
MASS
44
AREA
12352
HEIGHT
9714
10-Apr-2023
15:15
linh
pham



BEFORE
MASS
43
AREA
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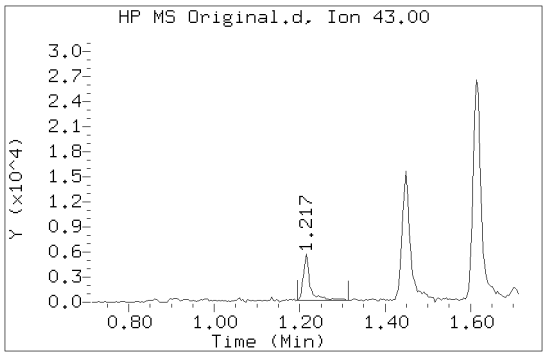
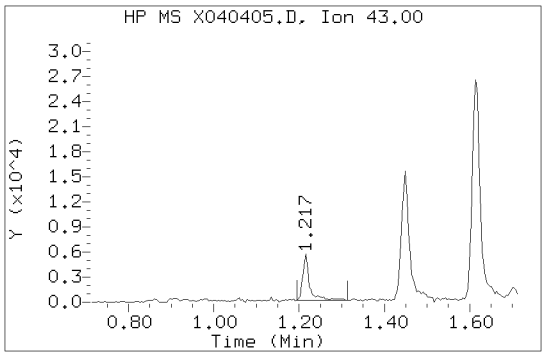
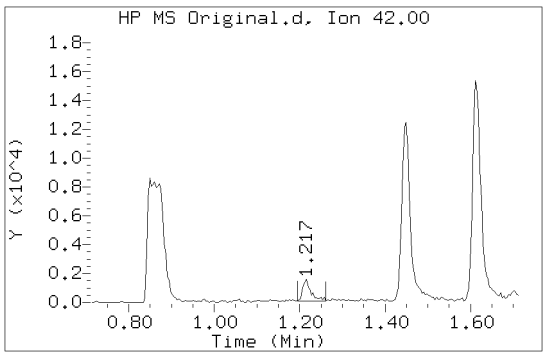
HEIGHT
5539
10-Apr-2023
15:09
linh
pham



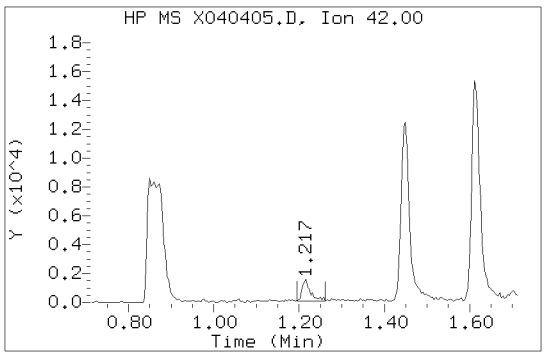
AFTER
MASS
43
AREA
6300
HEIGHT
5539
10-Apr-2023
15:15
linh
pham



BEFORE
MASS
42
AREA
2066
HEIGHT
1498
10-Apr-2023
15:09
linh
pham



AFTER
MASS
42
AREA
2066
HEIGHT
1498
10-Apr-2023
15:15
linh
pham



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040407.D Page 1
Report Date: 10-Apr-2023 15:09

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040407.D
Lab Smp Id: VBLKW-230404 Client Smp ID: VBLKW-230404
Inj Date : 04-APR-2023 12:51
Operator : PC Inst ID: voa6.i
Smp Info : VBLKW-230404;VBLKW-230404;3;;BLANK
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\8260W.m
Meth Date : 10-Apr-2023 15:09 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	4.178	4.177	(1.000)	503298	50.0000	
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.981)	215699	45.9314	45.93
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	246562	45.5341	45.53
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	714678	50.0000	
* 47 Chlorobenzene-d5	117	7.668	7.667	(1.000)	620360	50.0000	
$ 48 Toluene-d8	98	6.386	6.385	(0.833)	819245	53.2711	53.27
$ 69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	291854	49.6919	49.69
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	316433	50.0000	

01186439

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040407.D

Date : 04-APR-2023 12:51

Client ID: VBLKW-230404

Instrument: voa6.i

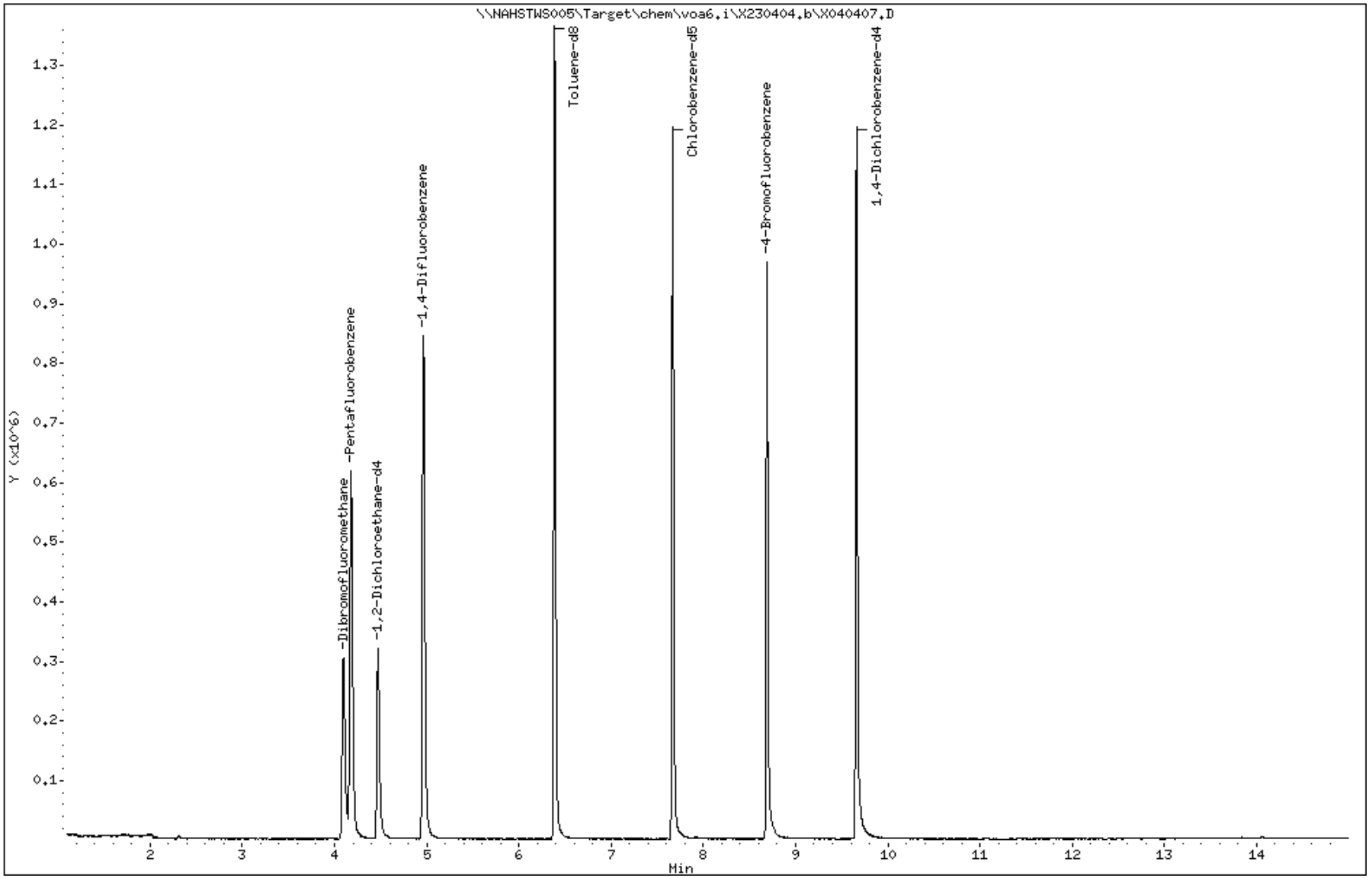
Sample Info: VBLKW-230404;VBLKW-230404;3;;BLANK

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040407.D
Inj Date : 04-APR-2023 12:51
InstruID : voa6.i
LabSampID : VBLKW-230404

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040408.D Page 1
Report Date: 10-Apr-2023 15:09

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040408.D
Lab Smp Id: HS23031739-02 Client Smp ID: HS23031739-02
Inj Date : 04-APR-2023 13:12
Operator : PC Inst ID: voa6.i
Smp Info : HS23031739-02;HS23031739-02;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\8260W.m
Meth Date : 10-Apr-2023 15:09 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: 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	4.181	4.177	(1.000)	521747	50.0000	
8 Trichlorofluoromethane	101	1.561	1.561	(0.373)	9292	1.90628	1.90(a)
$ 30 Dibromofluoromethane	113	4.099	4.099	(0.980)	220719	45.3284	45.32
$ 35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	254121	45.2767	45.27
* 36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	735783	50.0000	
* 47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	641579	50.0000	
$ 48 Toluene-d8	98	6.385	6.385	(0.833)	841637	52.9172	52.91
$ 69 4-Bromofluorobenzene	95	8.691	8.687	(1.133)	302664	49.8286	49.82
* 70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	333775	50.0000	

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01186442

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040408.D

Page 1

Date : 04-APR-2023 13:12

Client ID: HS23031739-02

Instrument: voa6.i

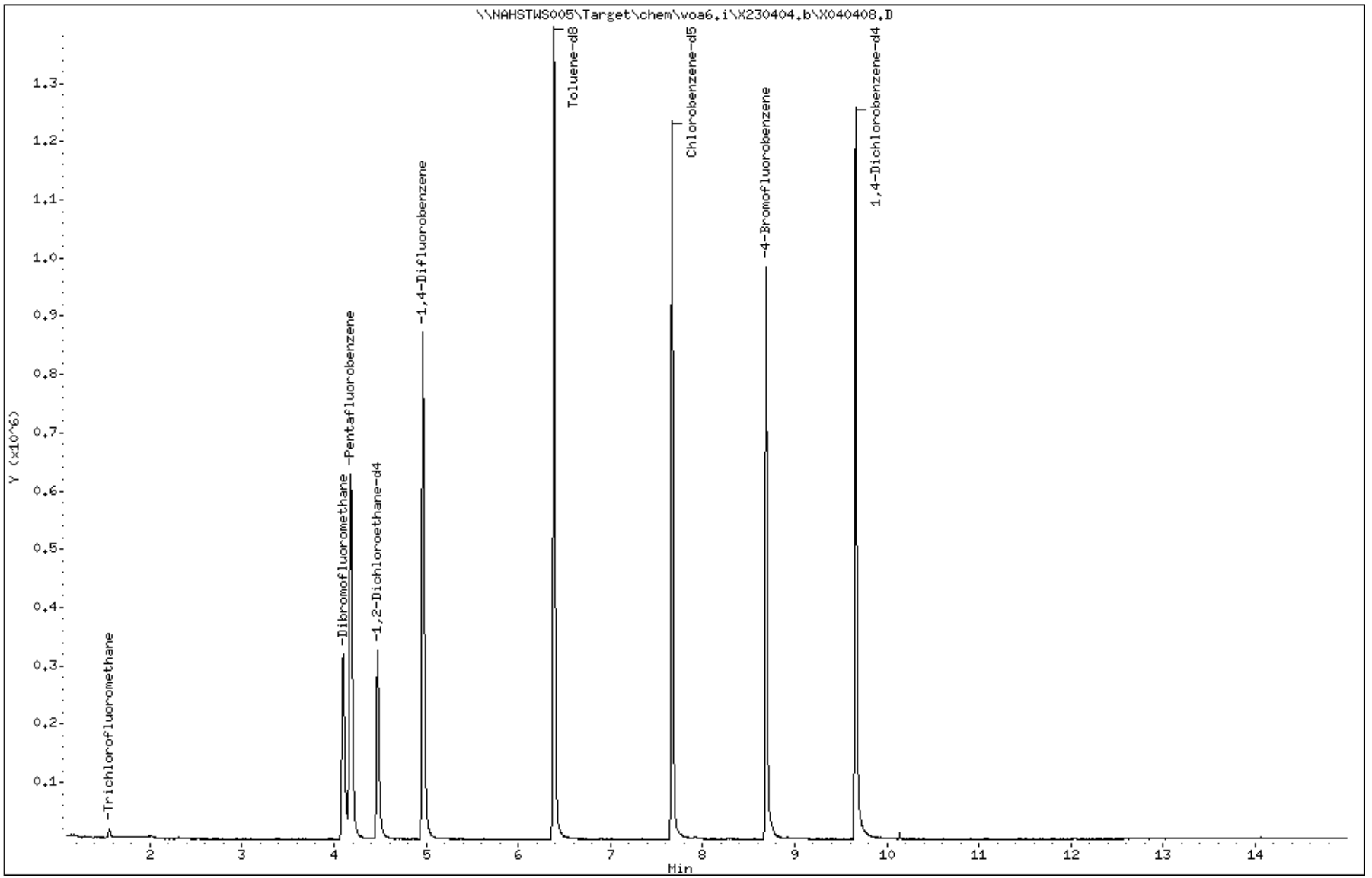
Sample Info: HS23031739-02;HS23031739-02;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040408.D

Date : 04-APR-2023 13:12

Client ID: HS23031739-02

Instrument: voa6.i

Sample Info: HS23031739-02;HS23031739-02;;;

Purge Volume: 5.0

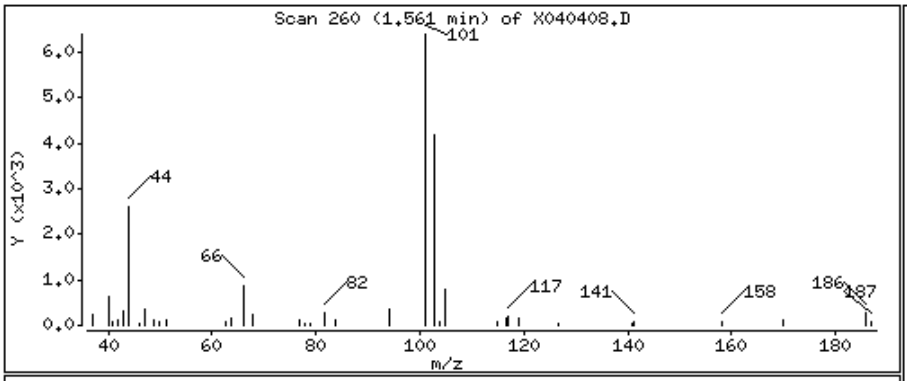
Operator: PC

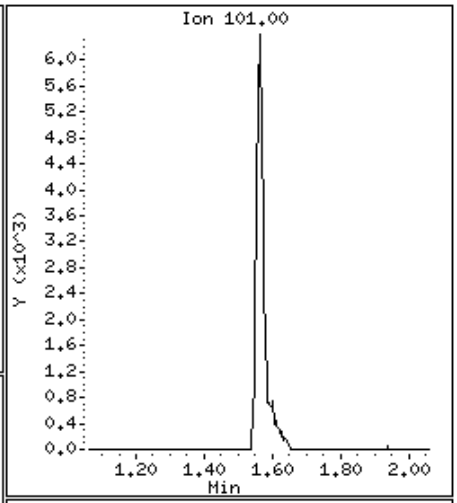
Column phase: DB624

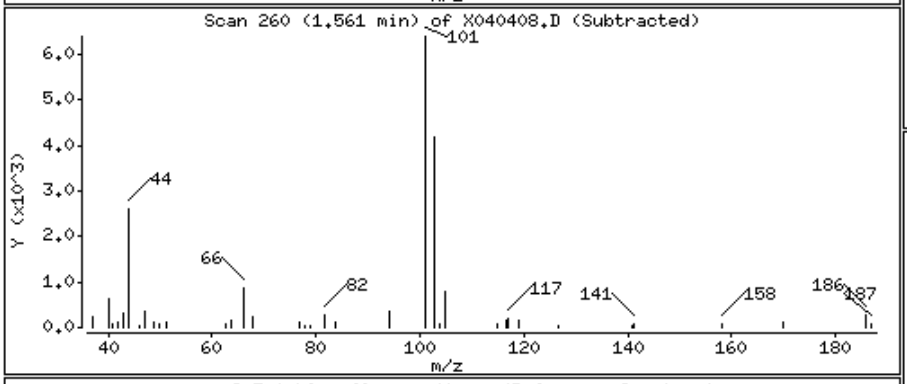
Column diameter: 0.18

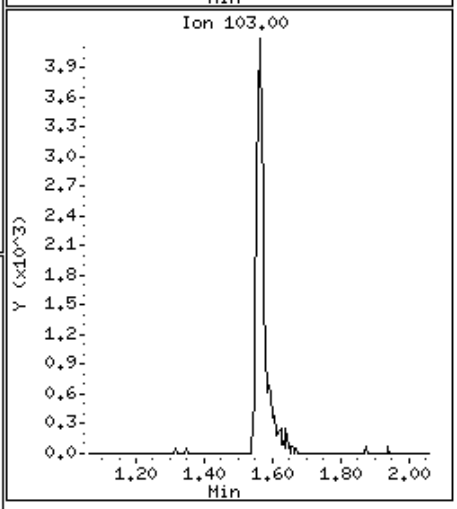
8 Trichlorofluoromethane

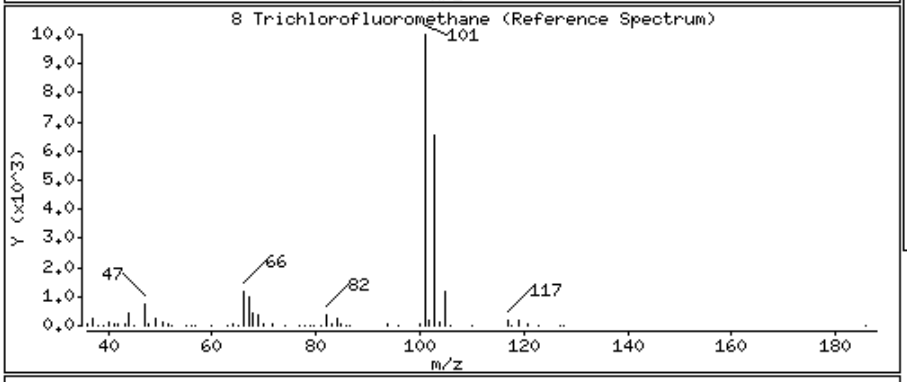
Concentration: 1.90 ug/l

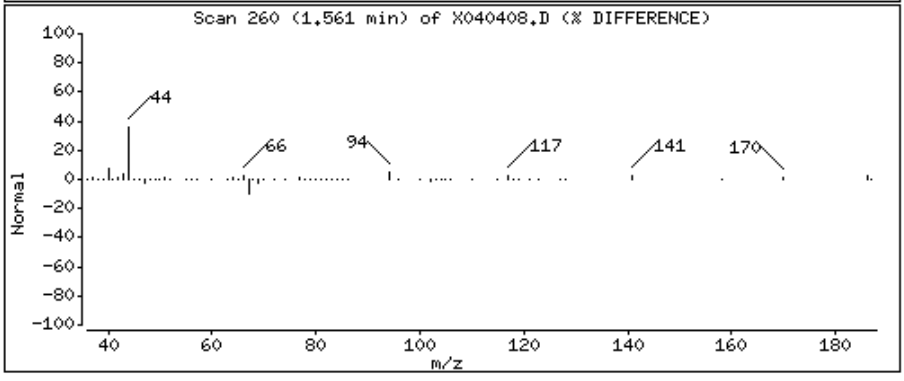












Data File : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040408.D
Inj Date : 04-APR-2023 13:12
InstruID : voa6.i
LabSampID : HS23031739-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040409.D Page 1
Report Date: 10-Apr-2023 15:09

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040409.D
Lab Smp Id: HS23031739-01 Client Smp ID: HS23031739-01
Inj Date : 04-APR-2023 13:33
Operator : PC Inst ID: voa6.i
Smp Info : HS23031739-01;HS23031739-01;;;
Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\8260W.m
Meth Date : 10-Apr-2023 15:09 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	4.177	4.177	(1.000)	499152	50.0000	
	27 cis-1,2-Dichloroethene	96	3.533	3.525	(0.846)	6272	1.22591	1.22(a)
$	30 Dibromofluoromethane	113	4.099	4.099	(0.981)	213500	45.8392	45.83
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	241622	45.0049	45.00
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	709979	50.0000	
*	47 Chlorobenzene-d5	117	7.667	7.667	(1.000)	612828	50.0000	
$	48 Toluene-d8	98	6.385	6.385	(0.833)	817380	53.8031	53.80
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	290022	49.9880	49.98
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	317290	50.0000	
M	94 1,2-Dichloroethylene (total)	96				6272	1.22591	1.22(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).

01186446

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040409.D

Date : 04-APR-2023 13:33

Client ID: HS23031739-01

Instrument: voa6.i

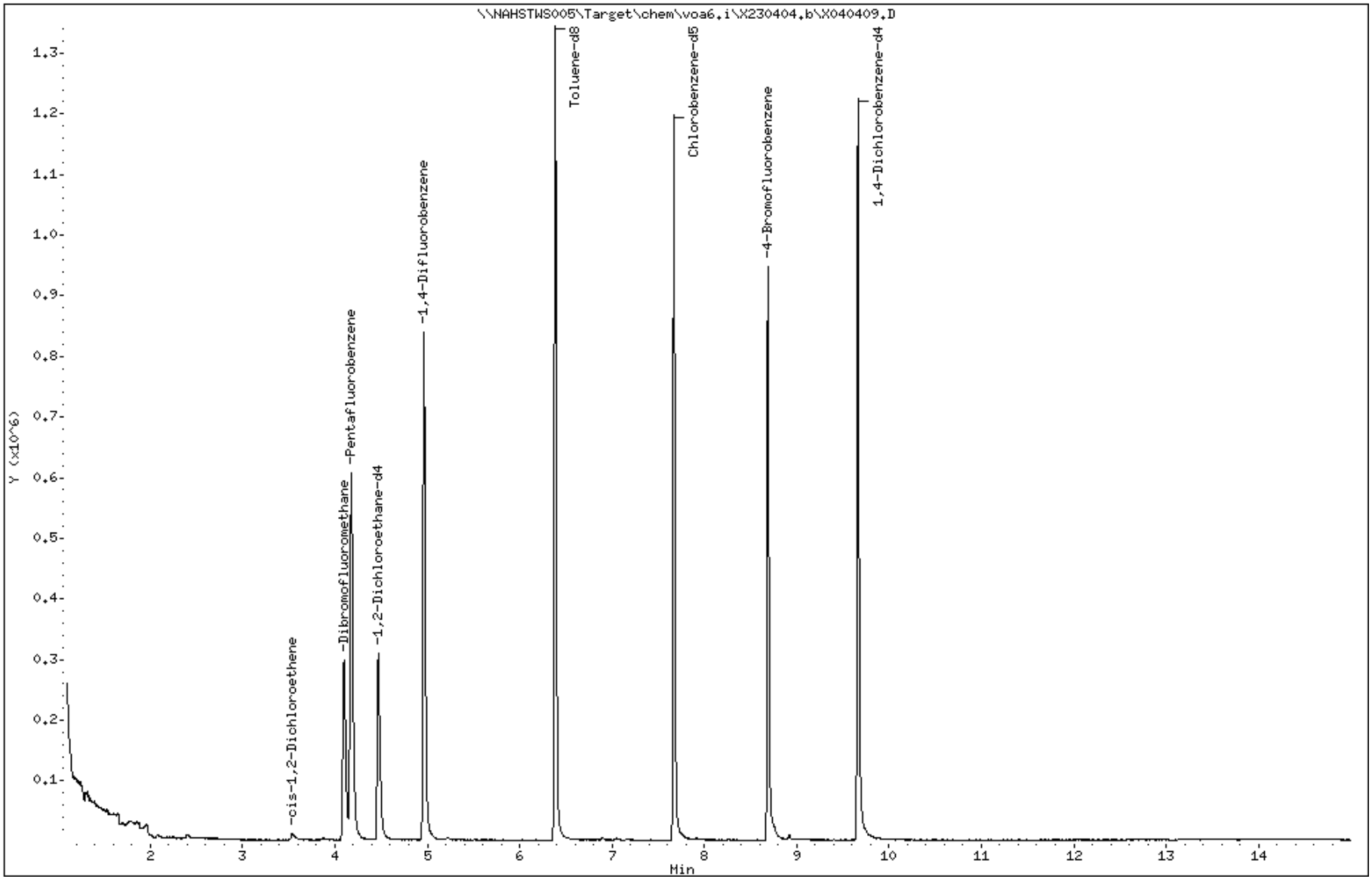
Sample Info: HS23031739-01;HS23031739-01;;;

Purge Volume: 5.0

Operator: PC

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040409.D

Date : 04-APR-2023 13:33

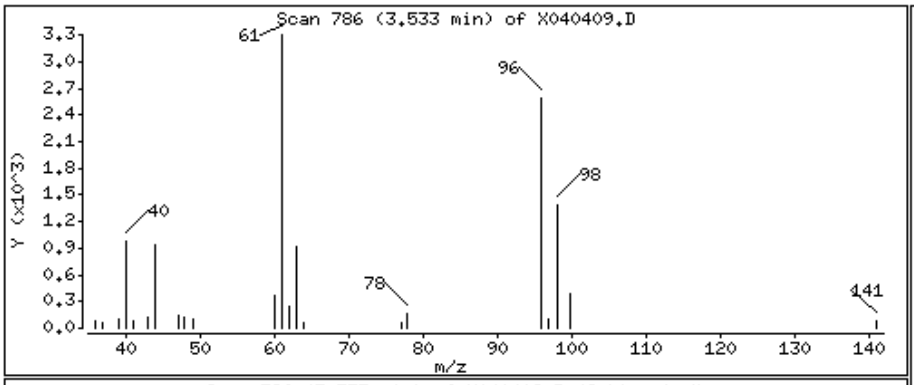
Client ID: HS23031739-01 Instrument: voa6.i

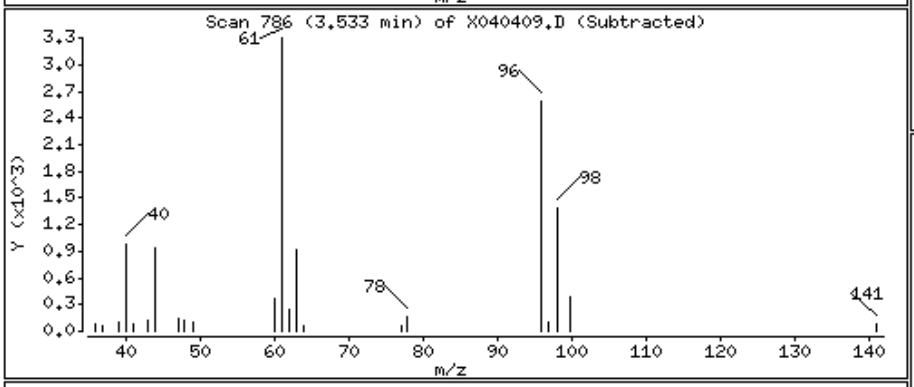
Sample Info: HS23031739-01;HS23031739-01;;;

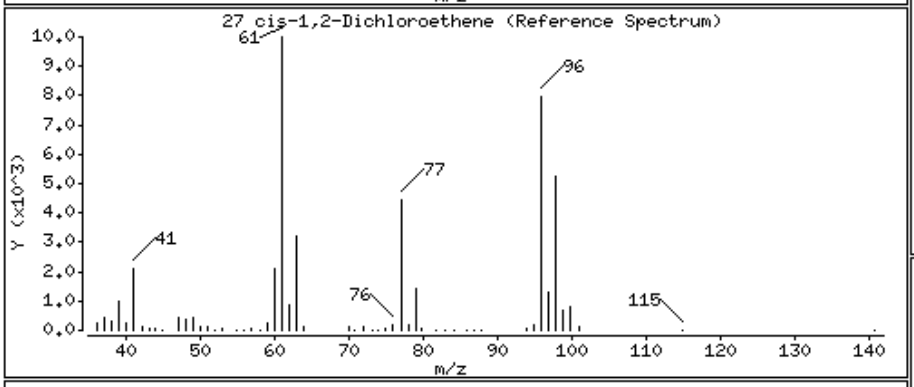
Purge Volume: 5.0 Operator: PC

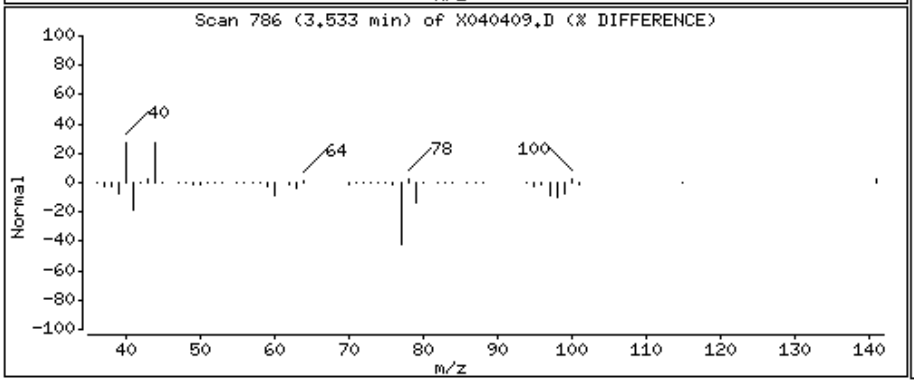
Column phase: DB624 Column diameter: 0.18

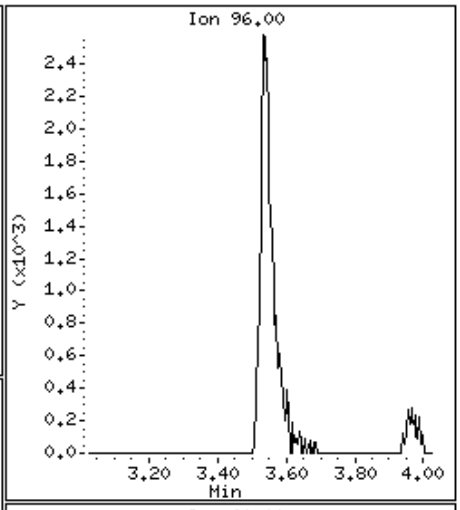
27 cis-1,2-Dichloroethene Concentration: 1.22 ug/l

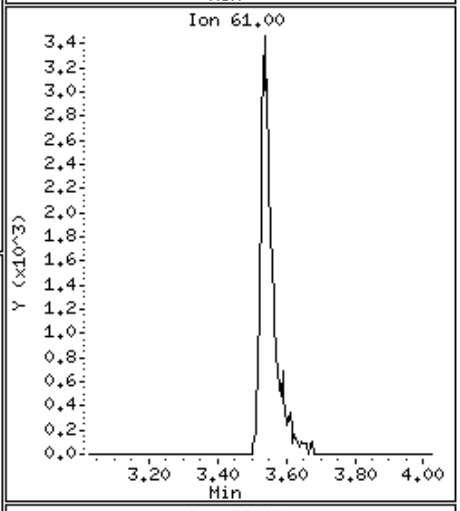


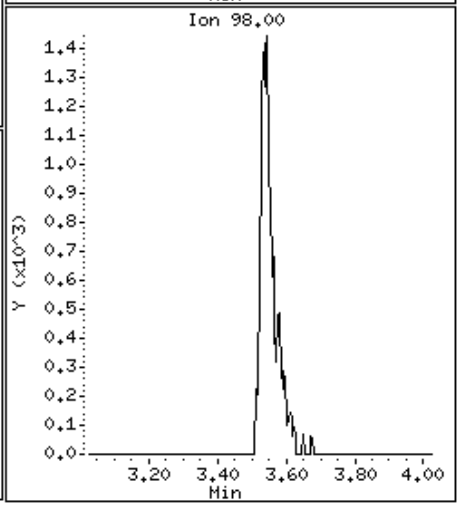












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NO MANUAL INTEGRATIONS

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Report Date: 10-Apr-2023 15:15

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040413.D
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Inj Date : 04-APR-2023 14:57
Operator : PC Inst ID: voa6.i
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Misc Info : V6;WATER;0;1;
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Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 13 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)	499287	50.0000	
135	1,4-Dioxane	88	5.602	5.595	(1.341)	18860	284.676	284.67(a)
140	1,3-Butadiene	54	1.167	1.164	(0.280)	33985	10.0369	10.03
25	Methacrylonitrile	41	3.821	3.818	(0.915)	69097	15.0157	15.01
12	Isobutyl Alcohol	43	4.676	4.672	(1.119)	200527	294.375	294.37
13	Acetonitrile	39	2.202	2.198	(0.527)	49963	107.520	107.52
14	Allyl Chloride	41	2.198	2.198	(0.526)	118168	10.2810	10.28
4	Propionitrile	54	3.653	3.649	(0.874)	99615	141.597	141.59(a)
72	trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	22530	16.9870	16.98
194	Acetaldehyde	44	1.212	1.212	(0.290)	43313	145.173	145.17
23	Chloroprene	53	1.771	1.771	(0.424)	14269	10.4213	10.42(M)
156	Diisopropyl ether	45	3.001	2.997	(0.718)	220676	14.2365	14.23
2	Dichlorodifluoromethane	85	0.972	0.973	(0.233)	35495	11.1783	11.17
3	Chloromethane	50	1.081	1.077	(0.259)	64165	13.9711	13.97
5	Vinyl Chloride	62	1.145	1.145	(0.274)	47812	12.1579	12.15
6	Bromomethane	94	1.340	1.340	(0.321)	24309	10.7510	10.75
7	Chloroethane	64	1.336	1.404	(0.320)	74603	26.7495	26.74
8	Trichlorofluoromethane	101	1.561	1.561	(0.374)	67562	14.4840	14.48
9	Acrolein	56	1.445	1.445	(0.346)	7309	28.0729	28.07
10	Acetone	43	1.977	1.970	(0.473)	18528	9.71656	9.71

11 1,1-Dichloroethene	96	1.917	1.913 (0.459)	33314	11.1110	11.11
15 Iodomethane	142	2.030	2.030 (0.486)	88093	32.8008	32.80

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040413.D Page 2
Report Date: 10-Apr-2023 15:15

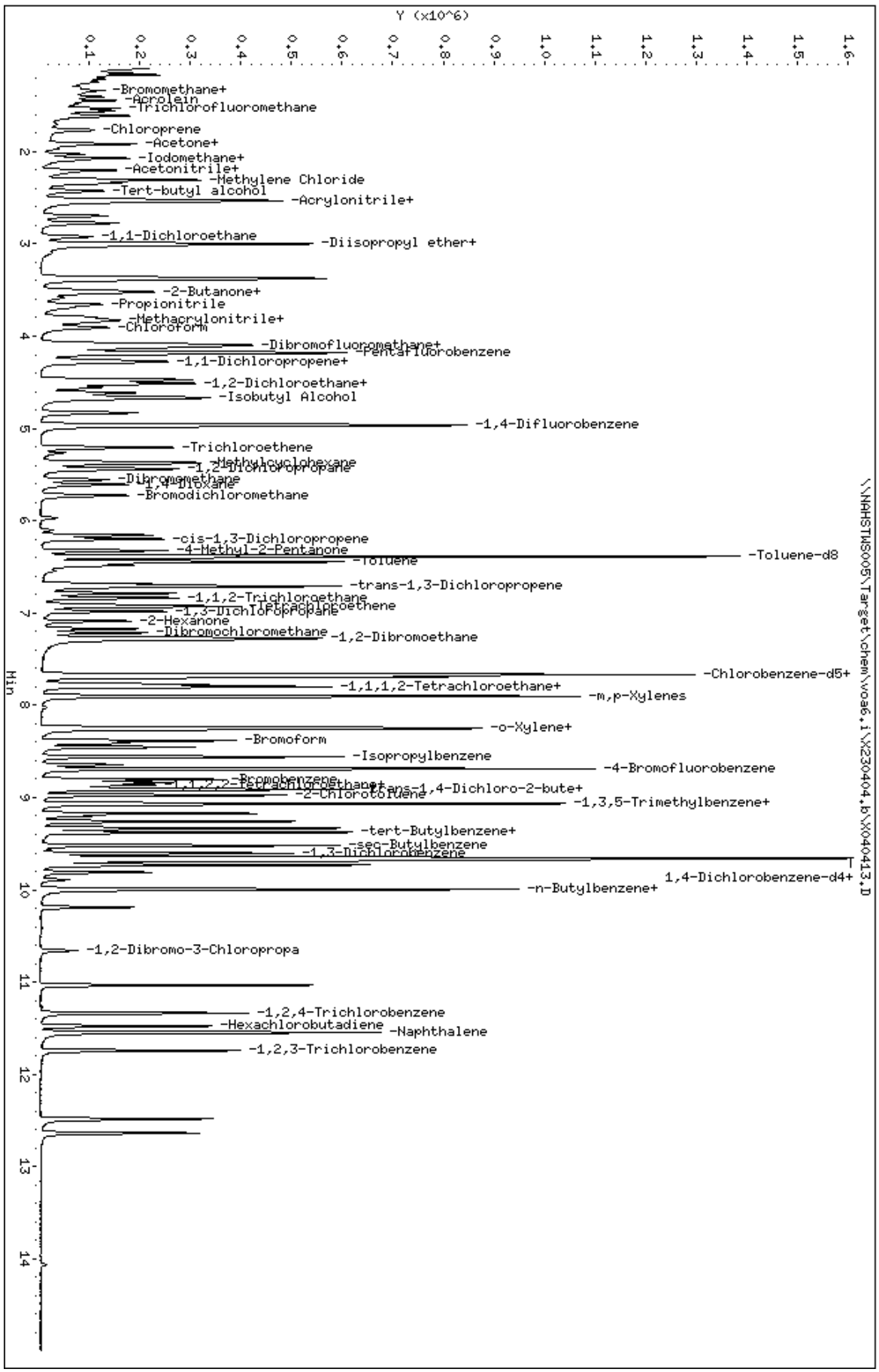
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	16 Acrylonitrile	53	2.536	2.532	(0.607)	48098	28.8675	28.86
	17 Methylene Chloride	84	2.307	2.303	(0.552)	64267	11.8907	11.89
	18 Methyl tert-butyl ether	73	2.536	2.532	(0.607)	217915	13.8033	13.80
	19 Carbon Disulfide	76	2.071	2.067	(0.496)	241681	21.9387	21.93
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	63802	15.0873	15.08
	21 Vinyl Acetate	43	3.001	2.997	(0.718)	371794	29.1770	29.17
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	111234	14.5236	14.52
	24 2-Butanone	43	3.582	3.574	(0.857)	43117	24.1188	24.11
	26 2,2-Dichloropropane	77	3.510	3.507	(0.840)	108494	17.8204	17.82
	27 cis-1,2-Dichloroethene	96	3.529	3.525	(0.845)	82112	16.0451	16.04
	28 Chloroform	83	3.904	3.904	(0.934)	124220	14.6133	14.61
	29 Bromochloromethane	128	3.795	3.795	(0.908)	38317	13.2309	13.23
$	30 Dibromofluoromethane	113	4.099	4.095	(0.981)	207808	44.5842	44.58
	31 1,1,1-Trichloroethane	97	4.084	4.080	(0.978)	111626	17.5604	17.56
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	94068	19.0179	19.01
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	97858	16.9806	16.98
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	96016	20.2779	20.27
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	237206	44.1898	44.18
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	693235	50.0000	
	37 Benzene	78	4.511	4.508	(0.909)	275845	16.1823	16.18
	38 Trichloroethene	130	5.208	5.205	(1.049)	90600	19.7326	19.73
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	99501	16.4441	16.44
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	71990	15.6714	15.67
	44 Dibromomethane	93	5.553	5.550	(1.119)	47632	16.2557	16.25
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	142053	36.8994	36.89
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	119014	15.5723	15.57
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	608445	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	807329	53.5243	53.52
	50 Toluene	91	6.446	6.446	(0.841)	303153	18.9904	18.99
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	103010	16.2353	16.23
	52 2-Hexanone	43	7.087	7.083	(0.924)	96121	36.3792	36.37
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	60198	17.3449	17.34
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	120503	17.4701	17.47
	55 Dibromochloromethane	129	7.176	7.173	(0.936)	84394	17.2132	17.21
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	72486	22.6512	22.65
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	78248	18.2401	18.24
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	68191	21.9201	21.92
	59 Chlorobenzene	112	7.694	7.690	(1.003)	205517	18.0152	18.01
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	78371	17.8272	17.82
	61 Ethylbenzene	106	7.799	7.799	(1.017)	105703	18.8274	18.82
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	267447	37.8521	37.85
	63 o-Xylene	106	8.241	8.237	(1.075)	132066	18.6015	18.60
	64 Styrene	104	8.260	8.256	(1.077)	217161	18.5111	18.51
	66 Bromoform	173	8.410	8.406	(1.097)	60366	17.8065	17.80
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	331790	20.4043	20.40
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	102927	18.1667	18.16
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	294611	51.1489	51.14
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	325159	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	79273	18.6173	18.61(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	381944	21.1346	21.13
	74 Bromobenzene	156	8.803	8.803	(0.911)	98273	18.7986	18.79
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	283434	20.2205	20.22

76	2-Chlorotoluene	91	8.972	8.972 (0.929)	240937	19.8293	19.82
77	4-Chlorotoluene	91	9.070	9.070 (0.939)	278165	20.3115	20.31

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.336	9.332	(0.966)	242910	21.7575	21.75
79	1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	288233	20.0501	20.05
81	sec-Butylbenzene	105	9.519	9.519	(0.985)	332730	21.9884	21.98
82	p-Isopropyltoluene	119	9.647	9.647	(0.998)	292440	21.6582	21.65
83	1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	173798	19.2222	19.22
84	1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	181681	18.6961	18.69
87	n-Butylbenzene	91	9.992	9.992	(1.034)	247692	22.7605	22.76
88	1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	172313	19.0540	19.05
89	1,2-Dibromo-3-Chloropropane	155	10.659	10.655	(1.103)	18016	18.2339	18.23
90	1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	123097	18.6184	18.61
91	Hexachlorobutadiene	225	11.480	11.480	(1.188)	57588	23.9721	23.97
92	Naphthalene	128	11.544	11.540	(1.195)	292802	18.4518	18.45
93	1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	117715	18.6061	18.60
M 94	1,2-Dichloroethylene (total)	96				145914	31.1324	31.13
M 95	Xylenes (total)	106				399513	56.4536	56.45
141	Cyclohexane	56	4.121	4.121	(0.987)	109299	21.9686	21.96
138	Freon TF	101	1.917	1.913	(0.459)	36999	14.6229	14.62
147	Methylcyclohexane	55	5.381	5.381	(1.084)	191223	19.9779	19.97
146	Methyl Acetate	43	2.236	2.232	(0.535)	30071	10.4784	10.47
148	Tert-Butyl alcohol	59	2.427	2.427	(0.581)	144795	276.925	276.92
149	Isopropyl Alcohol	45	2.093	2.093	(0.501)	49126	175.829	175.82

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Purge Volume: 5.0
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Instrument: voa6.i
Operator: PC
Column diameter: 0.18

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Inj Date : 04-APR-2023 14:57
InstruID : voa6.i
LabSampID : HS23031739-01MS

1,2,3-Trichloropropane (96-18-4)

Reason Code:

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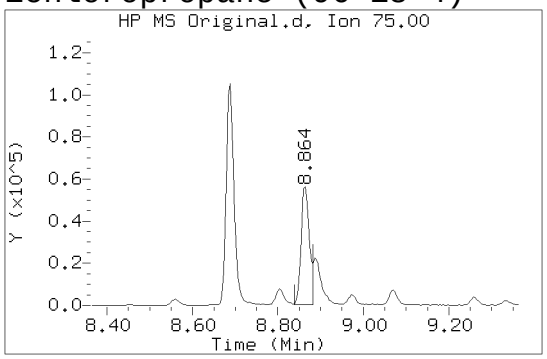
HEIGHT
56128
10-Apr-2023
15:09
linh
pham



AFTER

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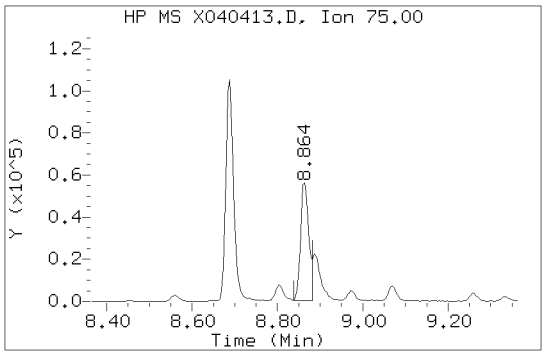

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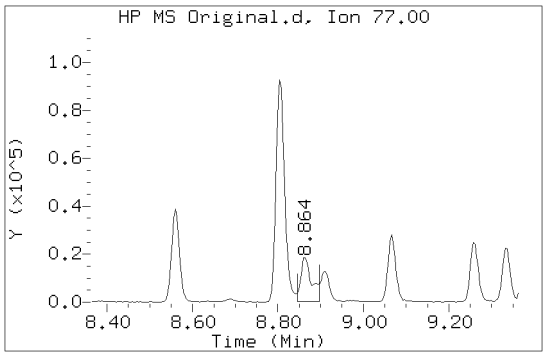

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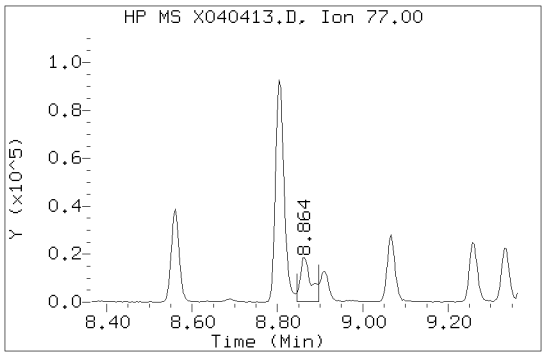

Chloroprene (126-99-8)

Reason Code:

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HEIGHT
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10-Apr-2023
15:09
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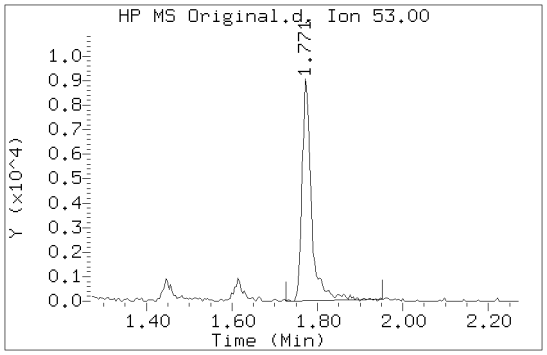
pham



AFTER

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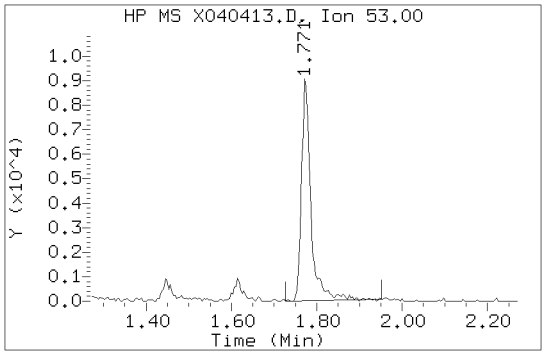

BEFORE

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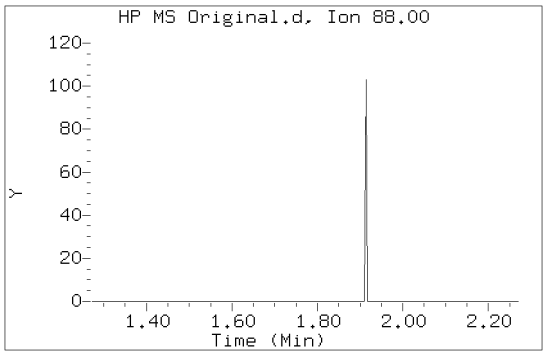

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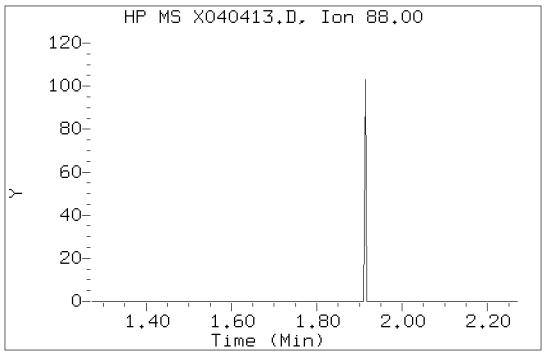

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Report Date: 10-Apr-2023 15:15

ALS Laboratory Group

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Inj Date : 04-APR-2023 15:18
Operator : PC Inst ID: voa6.i
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Misc Info : V6;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa6.i\X230404.b\8260W.m
Meth Date : 10-Apr-2023 15:15 Linh.Pham Quant Type: ISTD
Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 13 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)	501776	50.0000	
135 1,4-Dioxane	88	5.606	5.595	(1.342)	17974	269.957	269.95(a)
140 1,3-Butadiene	54	1.167	1.164	(0.280)	36304	10.6686	10.66
25 Methacrylonitrile	41	3.825	3.818	(0.916)	66812	14.4471	14.44
12 Isobutyl Alcohol	43	4.676	4.672	(1.119)	219388	320.465	320.46
13 Acetonitrile	39	2.198	2.198	(0.526)	75309	161.261	161.26
14 Allyl Chloride	41	2.198	2.198	(0.526)	163679	14.1700	14.17
4 Propionitrile	54	3.649	3.649	(0.873)	97759	138.270	138.26(a)
72 trans-1,4-Dichloro-2-butene	53	8.890	8.886	(1.159)	23113	16.5839	16.58
23 Chloroprene	53	1.775	1.771	(0.425)	19093	13.8753	13.87(M)
156 Diisopropyl ether	45	3.001	2.997	(0.718)	258582	16.5992	16.59
2 Dichlorodifluoromethane	85	0.976	0.973	(0.234)	29939	9.48683	9.48
3 Chloromethane	50	1.081	1.077	(0.259)	62101	13.4546	13.45
5 Vinyl Chloride	62	1.145	1.145	(0.274)	44835	11.3443	11.34
6 Bromomethane	94	1.340	1.340	(0.321)	23190	10.2052	10.20
7 Chloroethane	64	1.325	1.404	(0.317)	50532	18.0288	18.02
8 Trichlorofluoromethane	101	1.561	1.561	(0.374)	63372	13.5184	13.51
9 Acrolein	56	1.449	1.445	(0.347)	7183	27.5210	27.52
10 Acetone	43	1.977	1.970	(0.473)	27216	16.6034	16.60
11 1,1-Dichloroethene	96	1.913	1.913	(0.458)	47293	15.6951	15.69

15 Iodomethane	142	2.030	2.030 (0.486)	142139	46.7799	46.77
16 Acrylonitrile	53	2.539	2.532 (0.608)	42249	25.2313	25.23

Data File: \\NAHSTWS005\Target\chem\voa6.i\X230404.b\X040414.D Page 2
Report Date: 10-Apr-2023 15:15

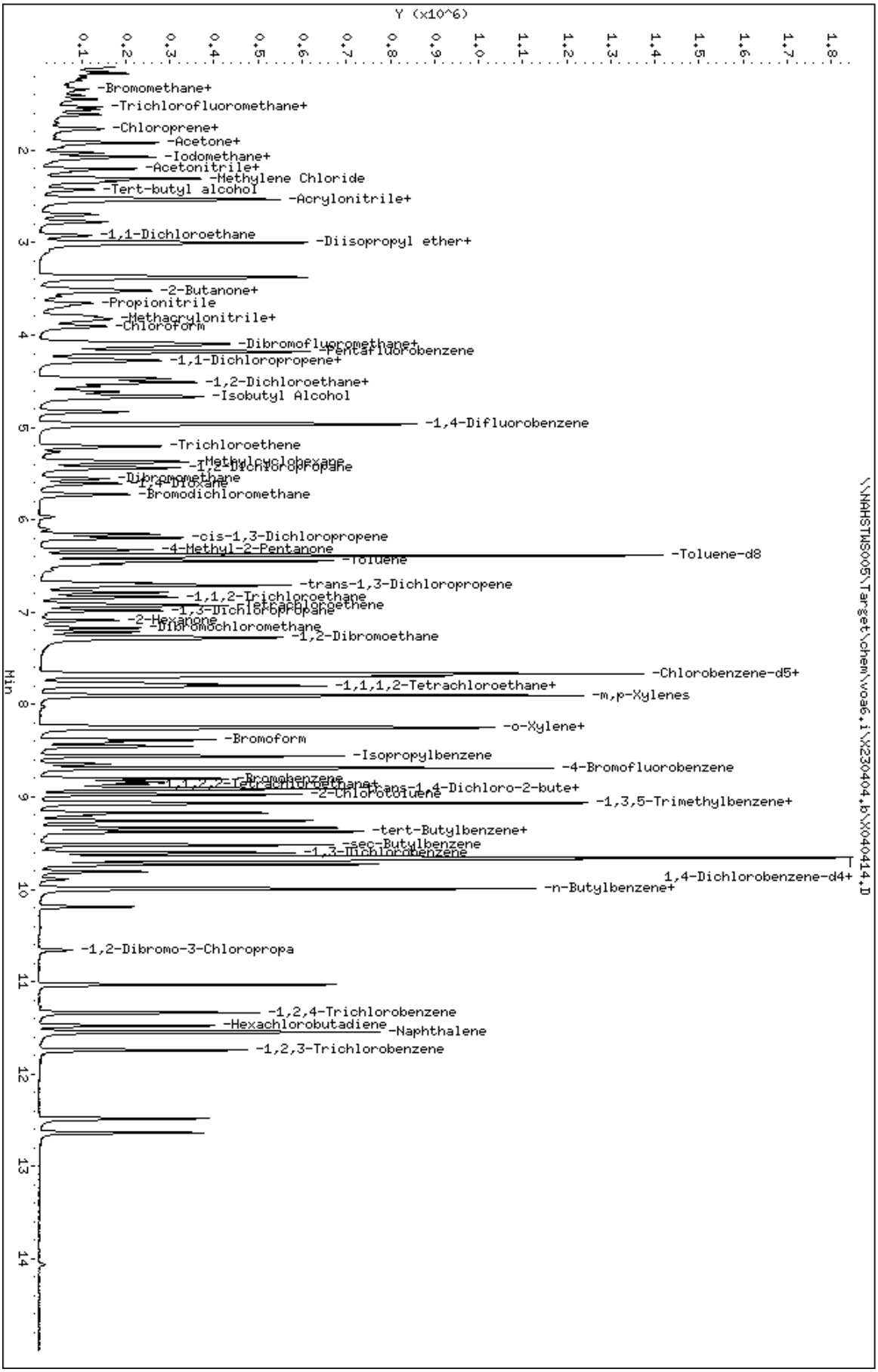
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	17 Methylene Chloride	84	2.303	2.303	(0.551)	80808	15.3114	15.31
	18 Methyl tert-butyl ether	73	2.536	2.532	(0.607)	250092	15.7629	15.76
	19 Carbon Disulfide	76	2.071	2.067	(0.496)	344188	31.0889	31.08
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	71675	16.8650	16.86
	21 Vinyl Acetate	43	3.001	2.997	(0.718)	413952	32.3243	32.32
	22 1,1-Dichloroethane	63	2.926	2.922	(0.700)	129235	16.7902	16.79
	24 2-Butanone	43	3.578	3.574	(0.856)	44874	24.9771	24.97
	26 2,2-Dichloropropane	77	3.510	3.507	(0.840)	116084	18.9889	18.98
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.844)	94950	18.4617	18.46
	28 Chloroform	83	3.904	3.904	(0.935)	143739	16.8256	16.82
	29 Bromochloromethane	128	3.795	3.795	(0.908)	45398	15.5982	15.59
$	30 Dibromofluoromethane	113	4.095	4.095	(0.980)	208287	44.4633	44.46
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.977)	122331	19.1490	19.14
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	104549	20.6292	20.62
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	114803	19.4424	19.44
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	105759	21.7991	21.79
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.070)	226705	42.0755	42.07
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	710295	50.0000	
	37 Benzene	78	4.511	4.508	(0.909)	320116	18.3284	18.32
	38 Trichloroethene	130	5.208	5.205	(1.049)	96398	20.4912	20.49
	39 Bromodichloromethane	83	5.726	5.722	(1.153)	116168	18.7375	18.73
	42 1,2-Dichloropropane	63	5.437	5.433	(1.095)	83392	17.7174	17.71
	44 Dibromomethane	93	5.553	5.550	(1.119)	54356	18.1049	18.10
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	148528	36.6871	36.68
	46 cis-1,3-Dichloropropene	75	6.157	6.153	(1.240)	142131	18.1504	18.15
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	639861	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	826872	52.1284	52.12
	50 Toluene	91	6.446	6.446	(0.841)	347335	20.6898	20.68
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	119531	18.3867	18.38
	52 2-Hexanone	43	7.087	7.083	(0.924)	95970	34.5387	34.53
	53 1,1,2-Trichloroethane	83	6.839	6.835	(0.892)	66642	18.2588	18.25
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	138783	19.1324	19.13
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	100605	19.5122	19.51
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	79667	23.6729	23.67
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	86223	19.1123	19.11
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	72862	22.7631	22.76
	59 Chlorobenzene	112	7.694	7.690	(1.003)	240915	20.0812	20.08
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	92329	19.9711	19.97
	61 Ethylbenzene	106	7.799	7.799	(1.017)	122762	20.7924	20.79
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	311406	41.9097	41.90
	63 o-Xylene	106	8.241	8.237	(1.075)	151780	20.3286	20.32
	64 Styrene	104	8.260	8.256	(1.077)	256227	20.7688	20.76
	66 Bromoform	173	8.410	8.406	(1.097)	67424	18.9119	18.91
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	376232	22.0014	22.00
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	111245	17.8369	17.83
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	316299	52.2218	52.22
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	357934	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	79700	17.0037	17.00(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	442260	22.2314	22.23
	74 Bromobenzene	156	8.803	8.803	(0.911)	115739	20.1124	20.11
	75 1,3,5-Trimethylbenzene	105	9.066	9.066	(0.938)	332298	21.5357	21.53
	76 2-Chlorotoluene	91	8.972	8.972	(0.929)	284022	21.2349	21.23

77	4-Chlorotoluene	91	9.070	9.070 (0.939)	327015	21.6920	21.69
78	tert-Butylbenzene	119	9.332	9.332 (0.966)	276086	22.4648	22.46

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	337751	21.3433	21.34
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	378018	22.6938	22.69
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	340576	22.9135	22.91
	83 1,3-Dichlorobenzene	146	9.606	9.602	(0.994)	205591	20.6564	20.65
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	214058	20.0108	20.01
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	292606	24.4256	24.42
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	204194	20.5118	20.51
	89 1,2-Dibromo-3-Chloropropane	155	10.663	10.655	(1.104)	18377	17.0046	17.00
	90 1,2,4-Trichlorobenzene	180	11.337	11.334	(1.173)	148242	20.3685	20.36
	91 Hexachlorobutadiene	225	11.476	11.480	(1.188)	68586	25.7416	25.74
	92 Naphthalene	128	11.544	11.540	(1.195)	325737	18.6477	18.64
	93 1,2,3-Trichlorobenzene	180	11.742	11.739	(1.215)	137701	19.7722	19.77
M	94 1,2-Dichloroethylene (total)	96				166625	35.3267	35.32
M	95 Xylenes (total)	106				463186	62.2383	62.23
	141 Cyclohexane	56	4.125	4.121	(0.987)	111121	22.1998	22.19
	138 Freon TF	101	1.917	1.913	(0.459)	49110	18.8639	18.86
	147 Methylcyclohexane	55	5.381	5.381	(1.084)	199900	20.3828	20.38
	146 Methyl Acetate	43	2.236	2.232	(0.535)	36942	12.8088	12.80
	148 Tert-Butyl alcohol	59	2.427	2.427	(0.581)	145057	276.050	276.04
	149 Isopropyl Alcohol	45	2.090	2.093	(0.500)	68617	244.372	244.37

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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Inj Date : 04-APR-2023 15:18
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1,2,3-Trichloropropane (96-18-4)

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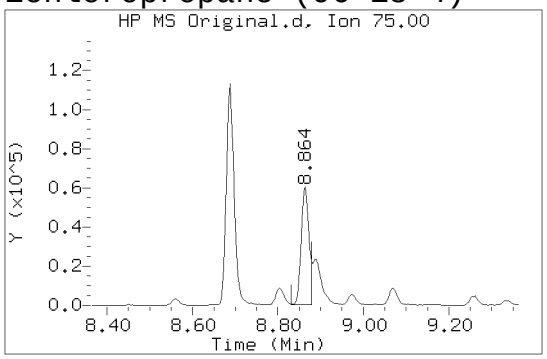

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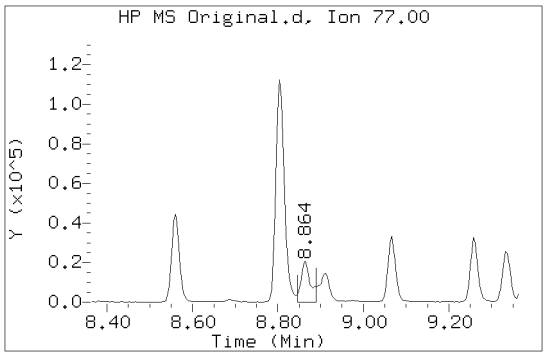

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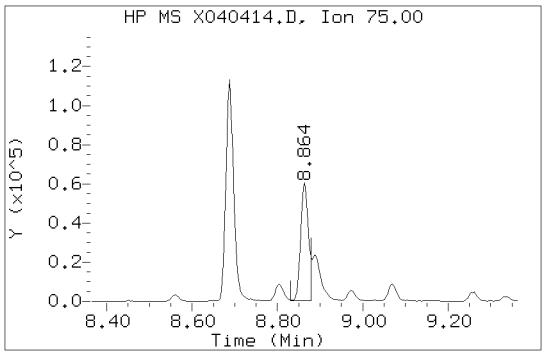

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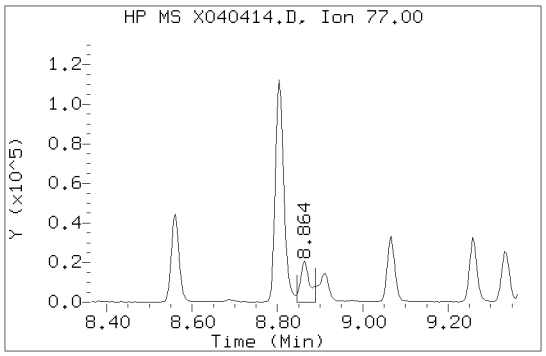

Chloroprene (126-99-8)

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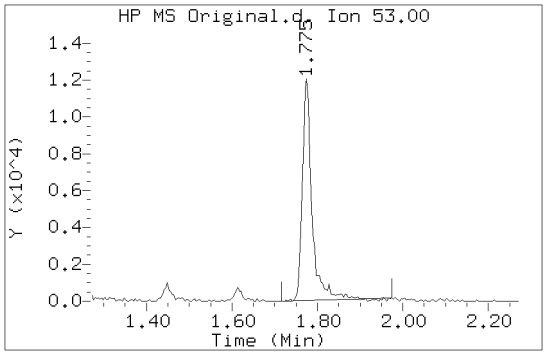

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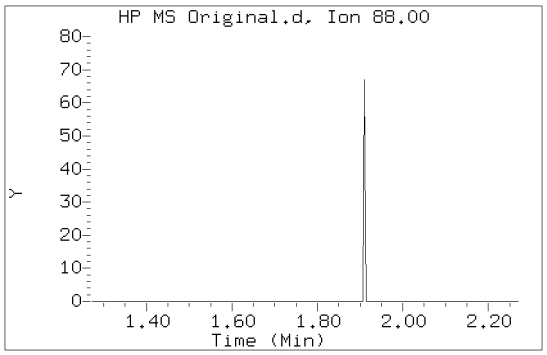

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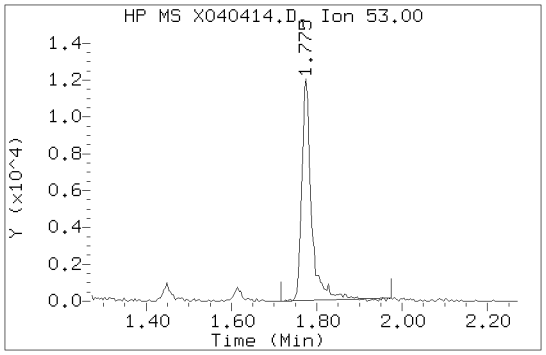

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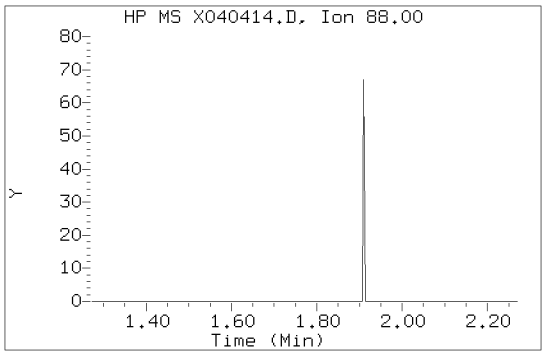

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Report Date: 10-Apr-2023 15:10

ALS Laboratory Group

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Inj Date : 04-APR-2023 21:16
Operator : PC Inst ID: voa6.i
Smp Info : CCV-END;CCV-END;2;;
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Cal Date : 17-MAR-2023 13:55 Cal File: X031708.D
Als bottle: 30 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	4.181	4.181	(1.000)	336730	50.0000	
135 1,4-Dioxane	88	5.595	5.595	(1.338)	47646	1000.00	1066.35
140 1,3-Butadiene	54	1.164	1.164	(0.278)	76979	50.0000	33.70
25 Methacrylonitrile	41	3.818	3.818	(0.913)	162233	50.0000	52.27
12 Isobutyl Alcohol	43	4.672	4.672	(1.117)	450564	1000.00	980.73
13 Acetonitrile	39	2.198	2.198	(0.526)	144402	500.000	460.76
14 Allyl Chloride	41	2.198	2.198	(0.526)	338978	50.0000	43.72
4 Propionitrile	54	3.649	3.649	(0.873)	227137	500.000	478.72
72 trans-1,4-Dichloro-2-butene	53	8.886	8.886	(1.159)	59757	50.0000	54.25
194 Acetaldehyde	44	1.212	1.212	(0.290)	27994	200.000	139.08(M)
23 Chloroprene	53	1.771	1.771	(0.424)	35012	50.0000	37.91(M)
156 Diisopropyl ether	45	2.997	2.997	(0.717)	460029	50.0000	44.00
2 Dichlorodifluoromethane	85	0.973	0.973	(0.233)	113321	50.0000	49.28
3 Chloromethane	50	1.077	1.077	(0.258)	141760	50.0000	45.76
5 Vinyl Chloride	62	1.145	1.145	(0.274)	104245	50.0000	39.30
6 Bromomethane	94	1.340	1.340	(0.321)	65428	50.0000	42.90
7 Chloroethane	64	1.404	1.404	(0.336)	56350	50.0000	29.95
8 Trichlorofluoromethane	101	1.561	1.561	(0.373)	118560	50.0000	37.68
9 Acrolein	56	1.445	1.445	(0.346)	10452	100.000	56.03
10 Acetone	43	1.970	1.970	(0.471)	65446	100.000	72.93

11 1,1-Dichloroethene	96	1.913	1.913 (0.458)	82586	50.0000	40.84
15 Iodomethane	142	2.030	2.030 (0.485)	186796	100.000	81.38

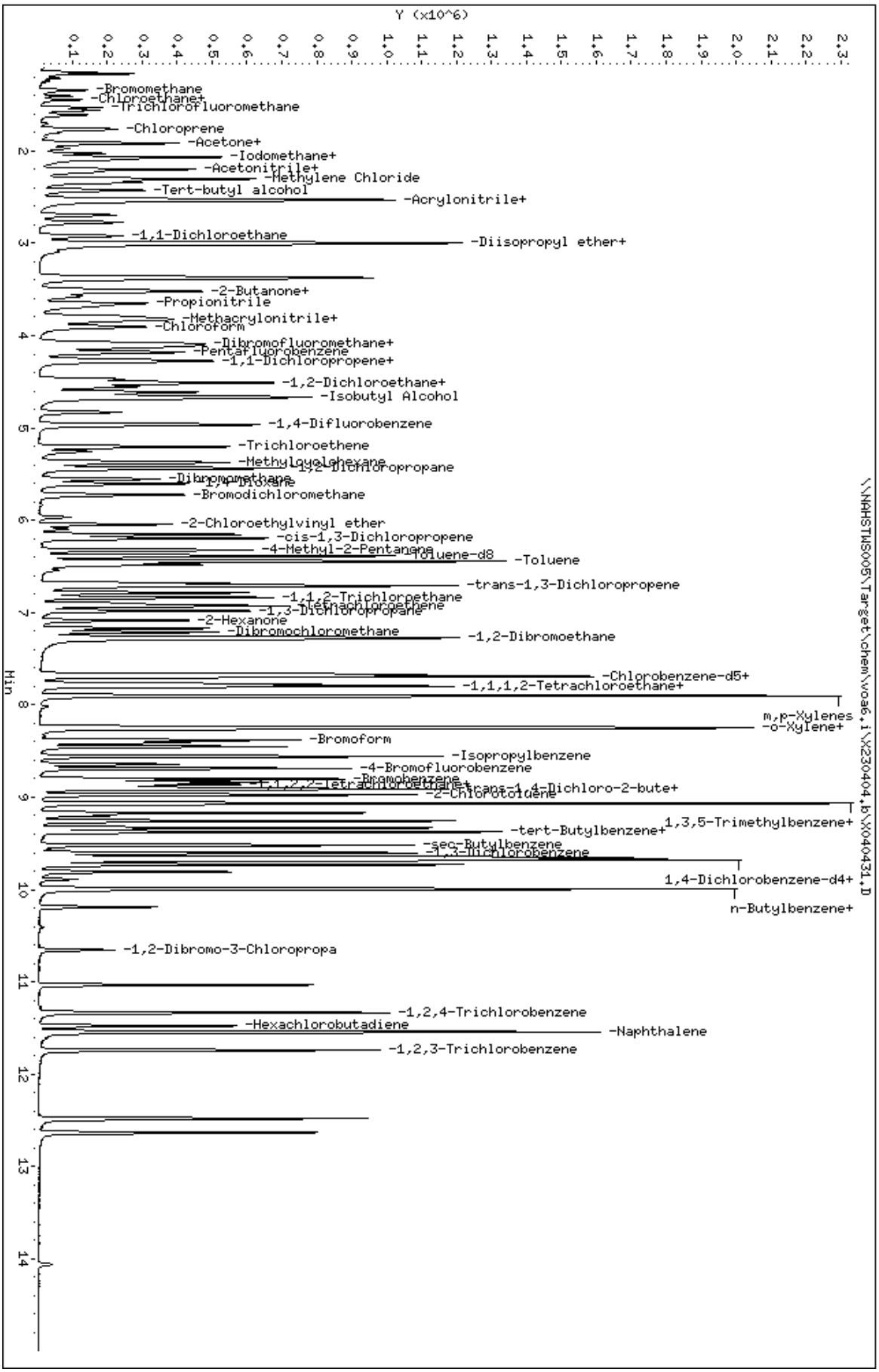
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	16 Acrylonitrile	53	2.532	2.532	(0.606)	114718	100.000	102.08
	17 Methylene Chloride	84	2.303	2.303	(0.551)	170538	50.0000	51.86
	18 Methyl tert-butyl ether	73	2.536	2.536	(0.606)	485115	50.0000	45.56
	19 Carbon Disulfide	76	2.067	2.067	(0.494)	659604	100.000	88.78
	20 trans-1,2-Dichloroethene	96	2.528	2.528	(0.605)	142452	50.0000	49.94
	21 Vinyl Acetate	43	2.997	2.997	(0.717)	903711	100.000	105.15
	22 1,1-Dichloroethane	63	2.922	2.922	(0.699)	258823	50.0000	50.10
	24 2-Butanone	43	3.574	3.574	(0.855)	123226	100.000	102.20
	26 2,2-Dichloropropane	77	3.507	3.507	(0.839)	199466	50.0000	49.01
	27 cis-1,2-Dichloroethene	96	3.525	3.525	(0.843)	171747	50.0000	49.76
	28 Chloroform	83	3.904	3.904	(0.934)	286682	50.0000	50.00
	29 Bromochloromethane	128	3.795	3.795	(0.908)	94991	50.0000	48.63
$	30 Dibromofluoromethane	113	4.095	4.095	(0.979)	163187	50.0000	52.03
	31 1,1,1-Trichloroethane	97	4.080	4.080	(0.976)	228094	50.0000	53.20
	32 1,1-Dichloropropene	75	4.279	4.279	(0.862)	184362	50.0000	49.11
	33 1,2-Dichloroethane	62	4.556	4.556	(0.918)	235984	50.0000	53.95
	34 Carbon Tetrachloride	117	4.264	4.264	(0.859)	182018	50.0000	50.65
$	35 1,2-Dichloroethane-d4	65	4.470	4.470	(1.069)	185439	50.0000	51.05
*	36 1,4-Difluorobenzene	114	4.965	4.965	(1.000)	526084	50.0000	
	37 Benzene	78	4.511	4.511	(0.909)	631188	50.0000	48.79
	38 Trichloroethene	130	5.205	5.205	(1.048)	183157	50.0000	52.56
	39 Bromodichloromethane	83	5.722	5.722	(1.153)	237099	50.0000	51.63
	41 2-Chloroethylvinyl ether	63	6.044	6.044	(1.217)	145869	100.000	104.48
	42 1,2-Dichloropropane	63	5.433	5.433	(1.094)	170725	50.0000	48.97
	44 Dibromomethane	93	5.550	5.550	(1.118)	116980	50.0000	52.60
	45 4-Methyl-2-Pentanone	43	6.326	6.326	(0.825)	335769	100.000	107.34
	46 cis-1,3-Dichloropropene	75	6.153	6.153	(1.239)	292691	50.0000	50.46
*	47 Chlorobenzene-d5	117	7.668	7.668	(1.000)	494359	50.0000	
$	48 Toluene-d8	98	6.386	6.386	(0.833)	593859	50.0000	48.45
	50 Toluene	91	6.446	6.446	(0.841)	662106	50.0000	51.04
	51 trans-1,3-Dichloropropene	75	6.682	6.682	(1.346)	247190	50.0000	51.33
	52 2-Hexanone	43	7.083	7.083	(0.924)	223970	100.000	104.32
	53 1,1,2-Trichloroethane	83	6.835	6.835	(0.891)	145527	50.0000	51.60
	54 1,3-Dichloropropane	76	6.982	6.982	(0.911)	298517	50.0000	53.26
	55 Dibromochloromethane	129	7.173	7.173	(0.935)	210987	50.0000	52.96
	56 Tetrachloroethene	164	6.925	6.925	(0.903)	131264	50.0000	50.48
	57 1,2-Dibromoethane	107	7.259	7.259	(0.947)	192924	50.0000	55.35
	58 1-Chlorohexane	55	7.694	7.694	(1.550)	116408	50.0000	46.51
	59 Chlorobenzene	112	7.690	7.690	(1.003)	464460	50.0000	50.10
	60 1,1,1,2-Tetrachloroethane	131	7.773	7.773	(1.014)	183806	50.0000	51.45
	61 Ethylbenzene	106	7.799	7.799	(1.017)	223632	50.0000	49.02
	62 m,p-Xylenes	106	7.904	7.904	(1.031)	563926	100.000	98.23
	63 o-Xylene	106	8.241	8.241	(1.075)	285009	50.0000	49.40
	64 Styrene	104	8.256	8.256	(1.077)	498474	50.0000	52.29
	66 Bromoform	173	8.406	8.406	(1.096)	156219	50.0000	56.71
	67 Isopropylbenzene	105	8.560	8.560	(1.116)	642706	50.0000	48.64
	68 1,1,2,2-Tetrachloroethane	83	8.837	8.837	(0.915)	253075	50.0000	53.90
$	69 4-Bromofluorobenzene	95	8.687	8.687	(1.133)	235302	50.0000	50.27
*	70 1,4-Dichlorobenzene-d4	152	9.662	9.662	(1.000)	269464	50.0000	
	71 1,2,3-Trichloropropane	75	8.863	8.863	(0.917)	197861	50.0000	56.07(M)
	73 n-Propylbenzene	91	8.912	8.912	(0.922)	750365	50.0000	50.10
	74 Bromobenzene	156	8.803	8.803	(0.911)	226902	50.0000	52.37

75	1,3,5-Trimethylbenzene	105	9.066	9.066 (0.938)	575514	50.0000	49.54
76	2-Chlorotoluene	91	8.972	8.972 (0.929)	509780	50.0000	50.62

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	
	77 4-Chlorotoluene	91	9.070	9.070	(0.939)	587912	50.0000	51.80	
	78 tert-Butylbenzene	119	9.332	9.332	(0.966)	461064	50.0000	49.83	
	79 1,2,4-Trimethylbenzene	105	9.377	9.377	(0.971)	599045	50.0000	50.28	
	81 sec-Butylbenzene	105	9.519	9.519	(0.985)	610550	50.0000	48.68	
	82 p-Isopropyltoluene	119	9.647	9.647	(0.998)	553362	50.0000	49.45	
	83 1,3-Dichlorobenzene	146	9.602	9.602	(0.994)	381420	50.0000	50.90	
	84 1,4-Dichlorobenzene	146	9.681	9.681	(1.002)	402748	50.0000	50.01	
	87 n-Butylbenzene	91	9.992	9.992	(1.034)	461896	50.0000	51.21	
	88 1,2-Dichlorobenzene	146	9.992	9.992	(1.034)	393004	50.0000	52.43	
	89 1,2-Dibromo-3-Chloropropane	155	10.655	10.655	(1.103)	47746	50.0000	55.06	
	90 1,2,4-Trichlorobenzene	180	11.334	11.334	(1.173)	287511	50.0000	52.47	
	91 Hexachlorobutadiene	225	11.480	11.480	(1.188)	97884	50.0000	46.13	
	92 Naphthalene	128	11.540	11.540	(1.194)	753248	50.0000	57.27	
	93 1,2,3-Trichlorobenzene	180	11.739	11.739	(1.215)	281437	50.0000	53.67	
M	94 1,2-Dichloroethylene (total)	96				314199	100.000		(a)
	141 Cyclohexane	56	4.121	4.121	(0.986)	172747	50.0000	48.10	
	138 Freon TF	101	1.913	1.913	(0.458)	77800	50.0000	42.07	
	147 Methylcyclohexane	55	5.381	5.381	(1.084)	357504	50.0000	49.21	
	146 Methyl Acetate	43	2.232	2.232	(0.534)	102612	50.0000	53.01	
	148 Tert-Butyl alcohol	59	2.427	2.427	(0.580)	351628	1000.00	997.14	
	149 Isopropyl Alcohol	45	2.093	2.093	(0.501)	193273	1000.00	1025.69	

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\X230404.b\X040431.D
Date : 04-APR-2023 21:16
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\X230404.b\X040431.D
Inj Date : 04-APR-2023 21:16
InstruID : voa6.i
LabSampID : CCV-END

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

MASS
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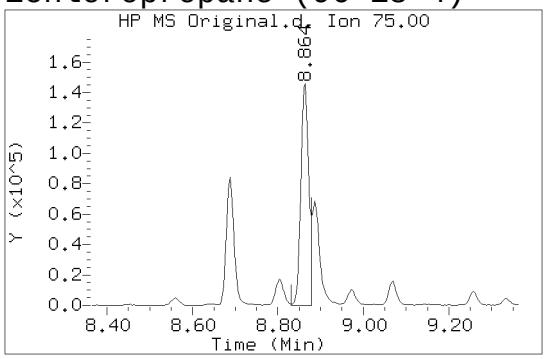
AREA
197861
HEIGHT
145779
10-Apr-2023
15:09
linh
pham



AFTER

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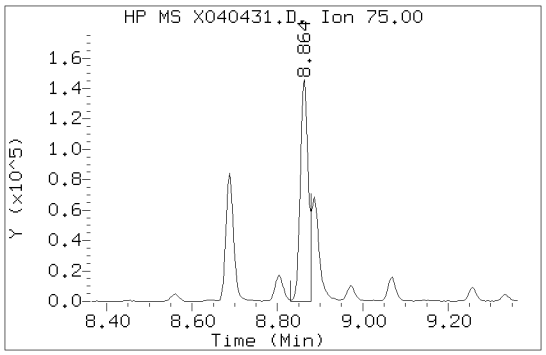

BEFORE

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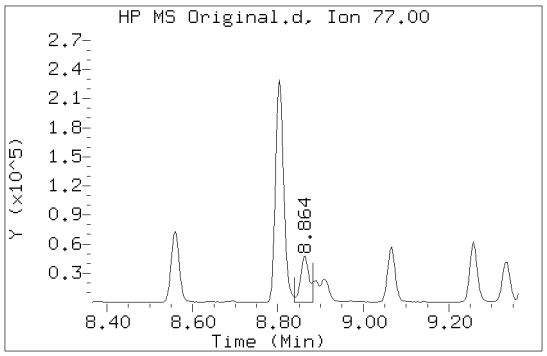
47916
10-Apr-2023
15:09
linh
pham



AFTER

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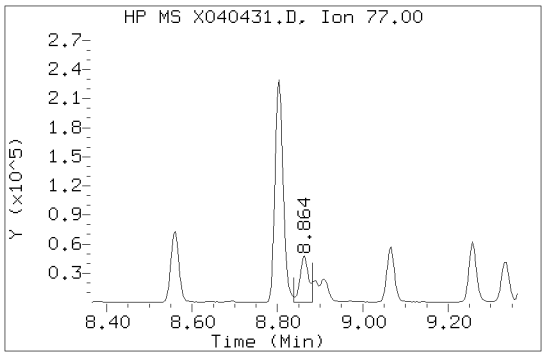

Chloroprene (126-99-8)

Reason Code:

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HEIGHT
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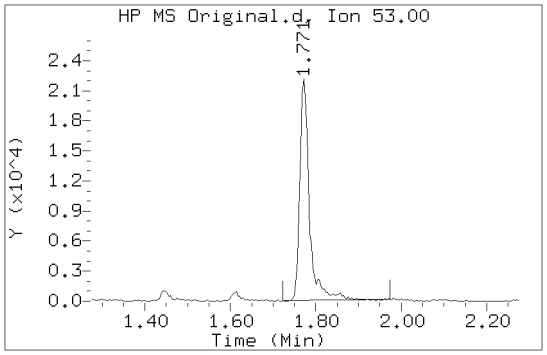
10-Apr-2023
15:09
linh
pham



AFTER

MASS
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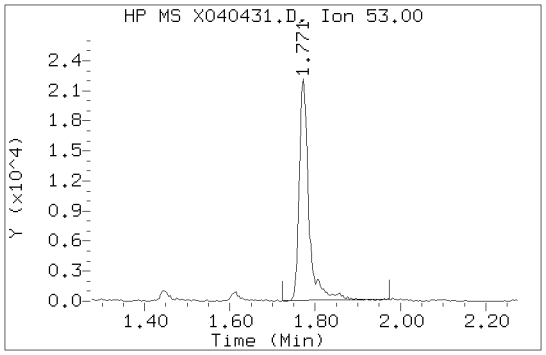
AREA
35012
HEIGHT
22089
10-Apr-2023
15:09
linh
pham



BEFORE

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AREA
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HEIGHT
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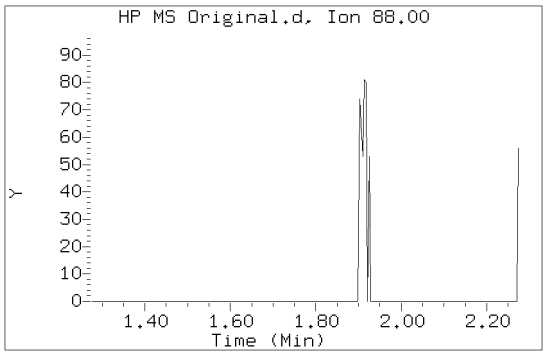
10-Apr-2023
15:09
linh
pham



AFTER

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AREA
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HEIGHT
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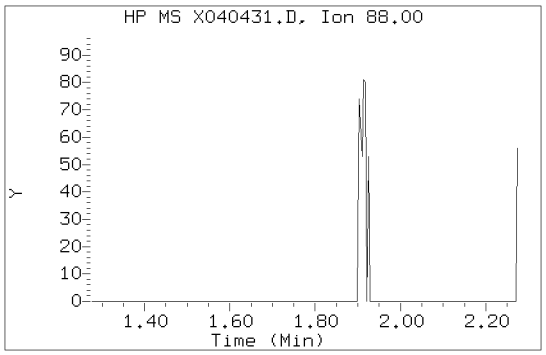
10-Apr-2023
15:09
linh
pham



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Inj Date : 04-APR-2023 21:16
InstruID : voa6.i
LabSampID : CCV-END

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

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HEIGHT
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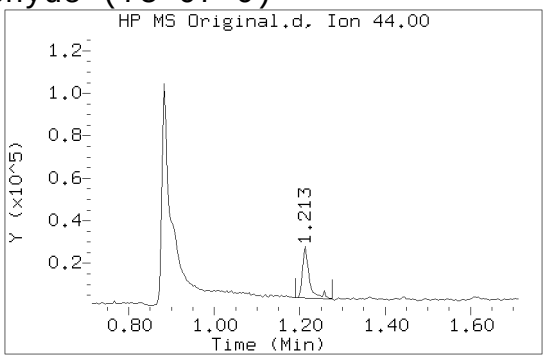
10-Apr-2023
15:09
linh
pham



AFTER

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AREA
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HEIGHT
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10-Apr-2023
15:09
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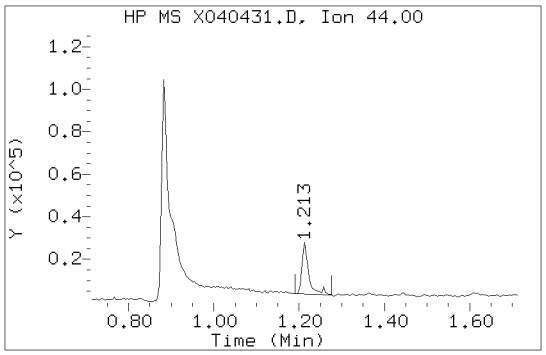

BEFORE

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AREA
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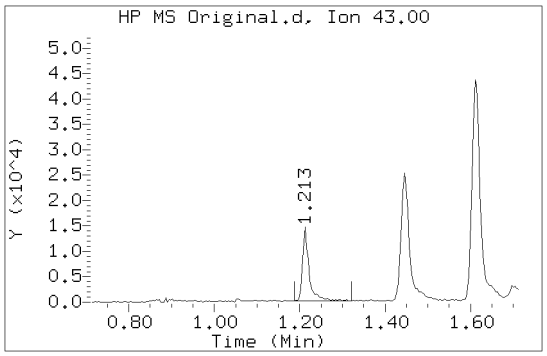
HEIGHT
14625
10-Apr-2023
15:09
linh
pham



AFTER

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HEIGHT
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10-Apr-2023
15:09
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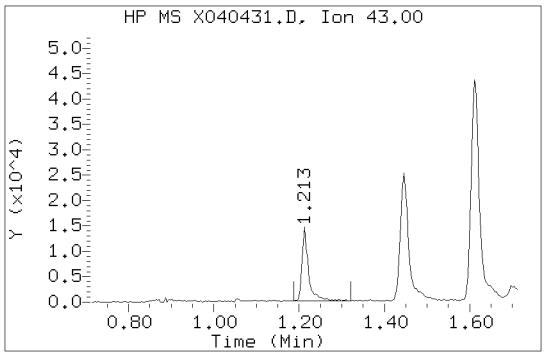
pham



BEFORE

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AREA
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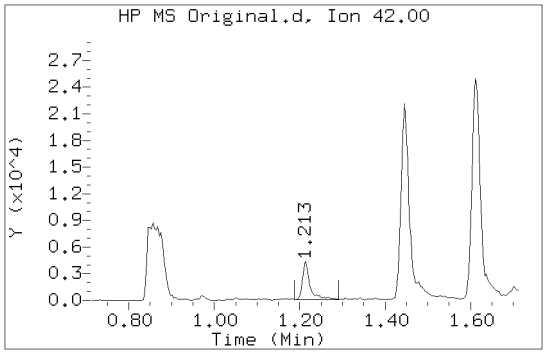
4290
10-Apr-2023
15:09
linh
pham



AFTER

MASS
42
AREA
5449
HEIGHT
4290
10-Apr-2023
15:09
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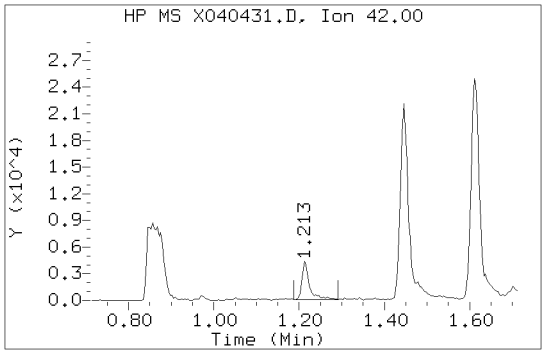
pham



HS23031739 9056_W IC

ALS WO# HS23031739

Sequence: 033123
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
	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
	MBLK	9086-W-SH-2	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
	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
	HS23031739-01		Unknown	GD4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23031739-01MS		Unknown	GD5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23031739-01MSD		Unknown	GD6	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS23031739-01DF20		Unknown	GD7	20.00		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	G7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 033123
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		CCV1	5.0	Finished	3/31/2023 6:56:56 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	3/31/2023 7:08:31 PM -05:00
Anions Processing Method ISO		MBLK	5.0	Finished	3/31/2023 8:06:26 PM -05:00
Anions Processing Method ISO		LCS	5.0	Finished	3/31/2023 8:12:14 PM -05:00
Anions Processing Method ISO		CCV	5.0	Finished	3/31/2023 8:23:48 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	3/31/2023 8:35:23 PM -05:00
Anions Processing Method ISO		HS23031739-01	5.0	Finished	3/31/2023 8:41:11 PM -05:00
Anions Processing Method ISO		HS23031739-01MS	5.0	Finished	3/31/2023 8:46:58 PM -05:00
Anions Processing Method ISO		HS23031739-01MSD	5.0	Finished	3/31/2023 8:52:45 PM -05:00
Anions Processing Method ISO		HS23031739-01DF20	5.0	Finished	3/31/2023 8:58:33 PM -05:00
Anions Processing Method ISO		CCV1	5.0	Finished	3/31/2023 9:39:05 PM -05:00
Anions Processing Method ISO		CCB	5.0	Finished	3/31/2023 10:08:03 PM -05:00

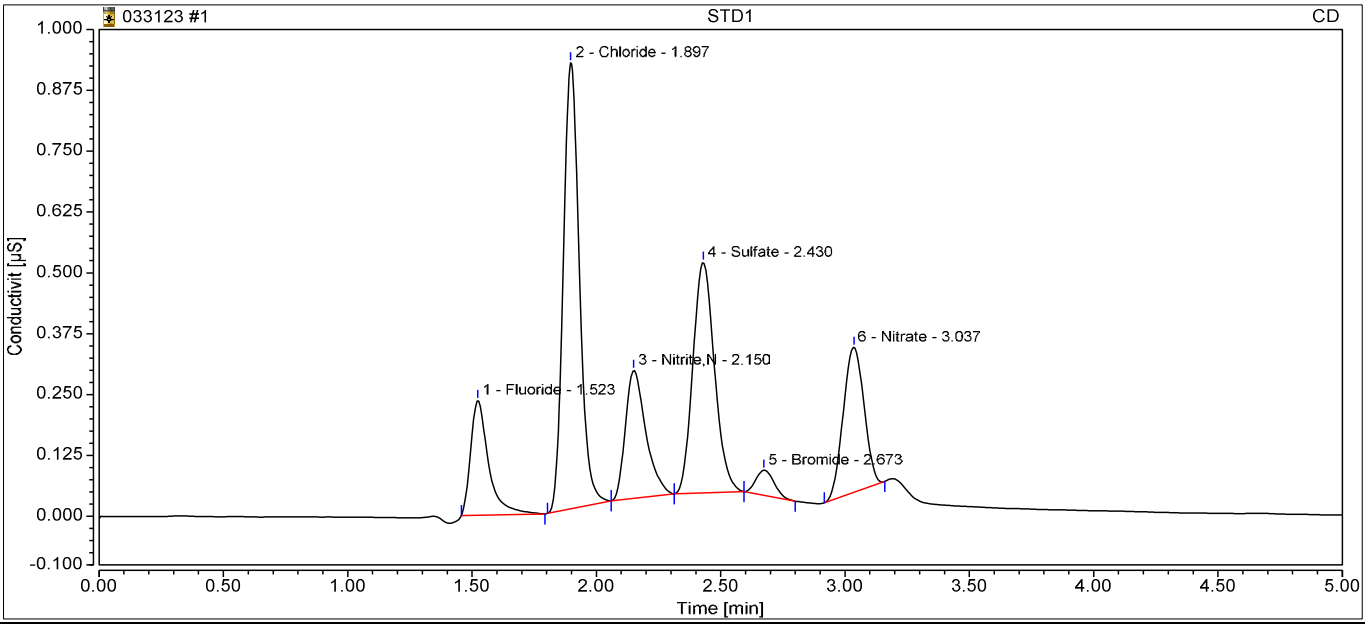
Sequence: 032723
Injection #6: STD6

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:



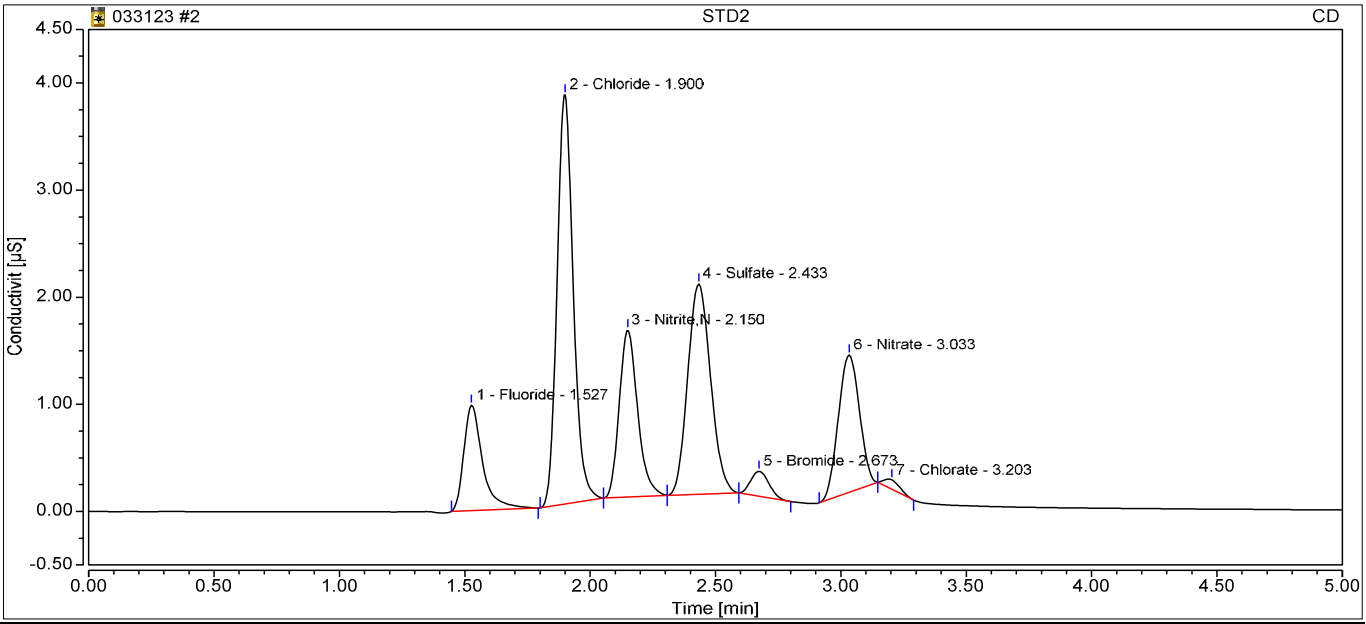
Integration Results

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:

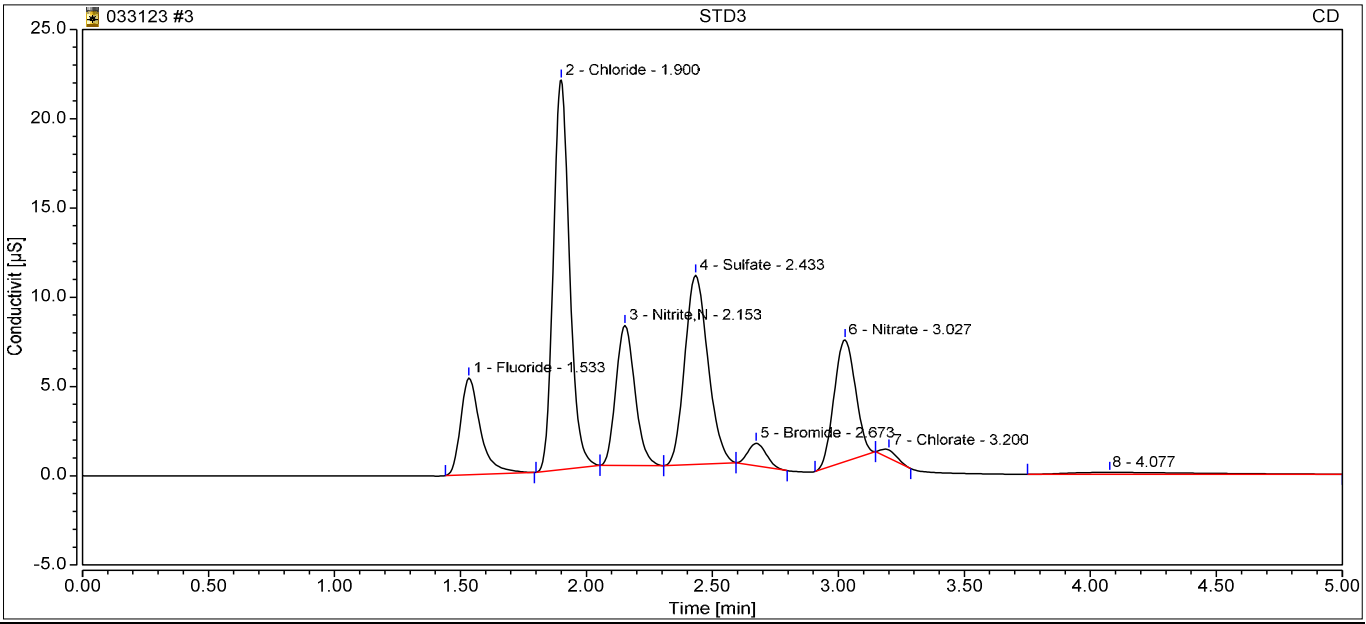


Integration Results

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:



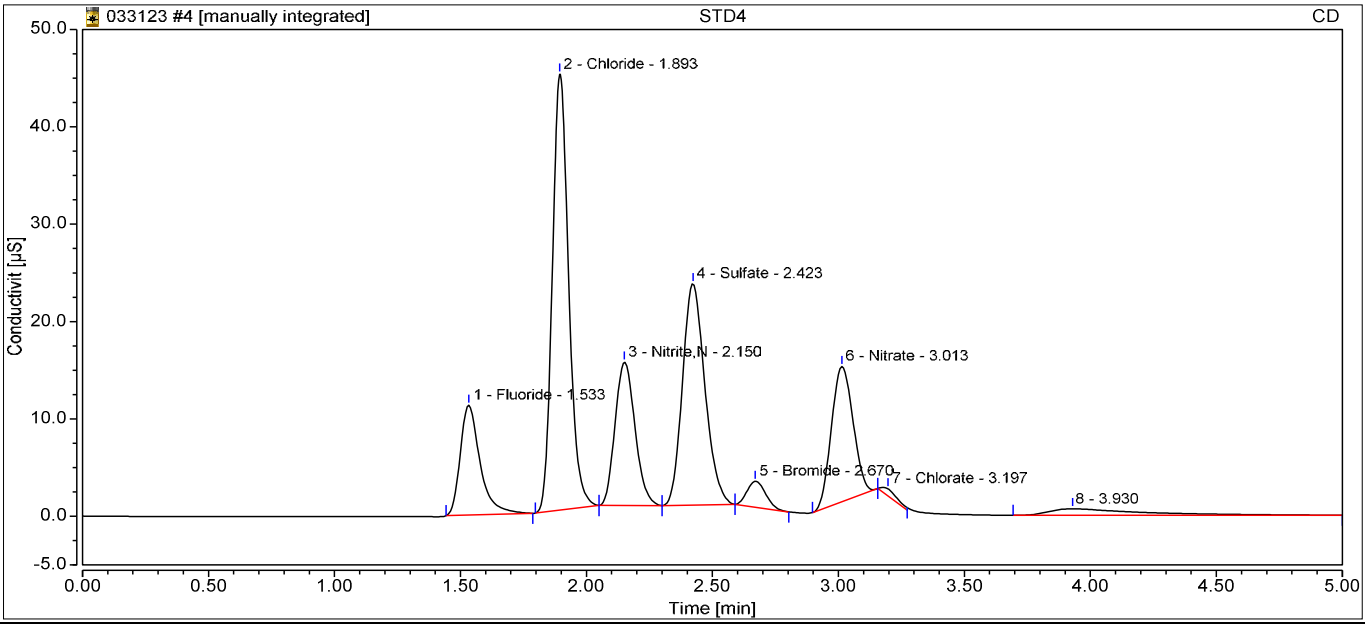
Integration Results

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:



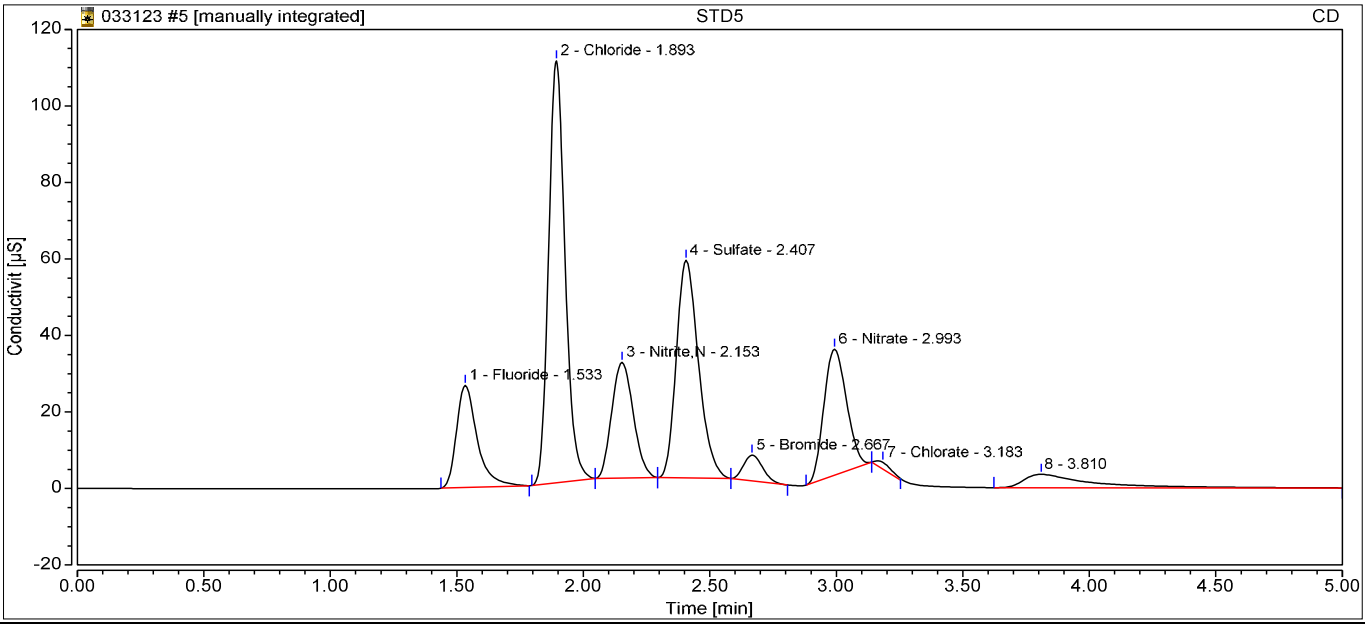
Integration Results

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:

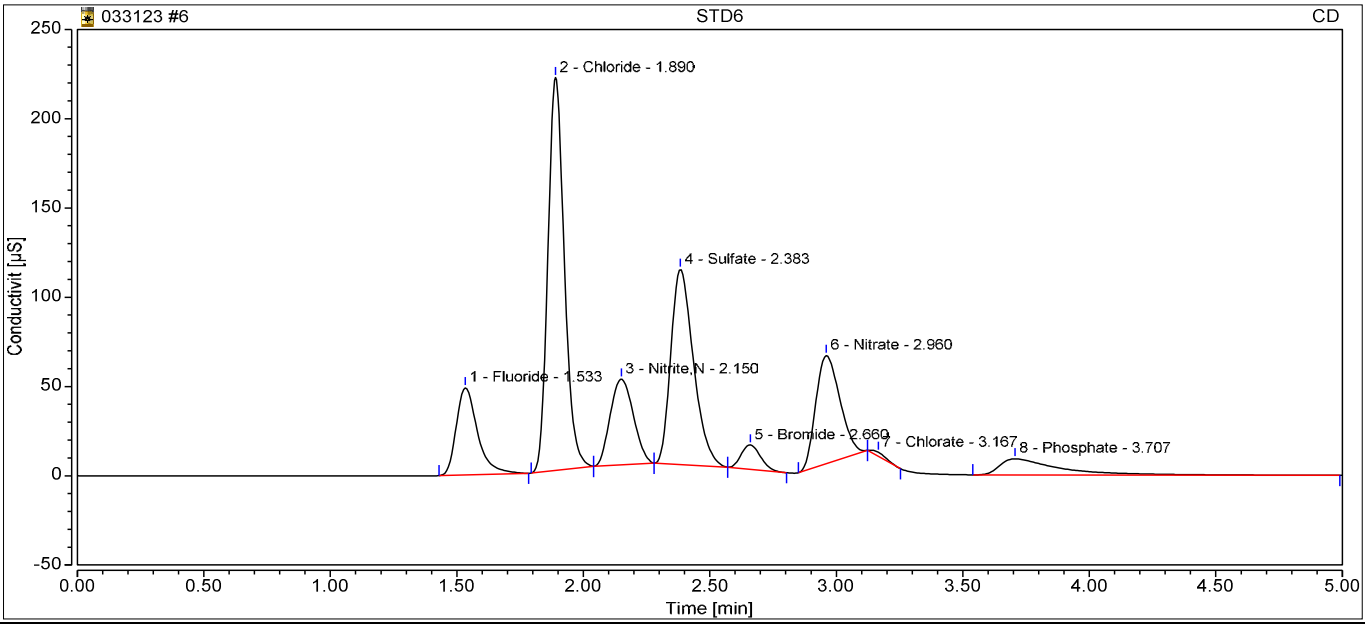


Integration Results

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:



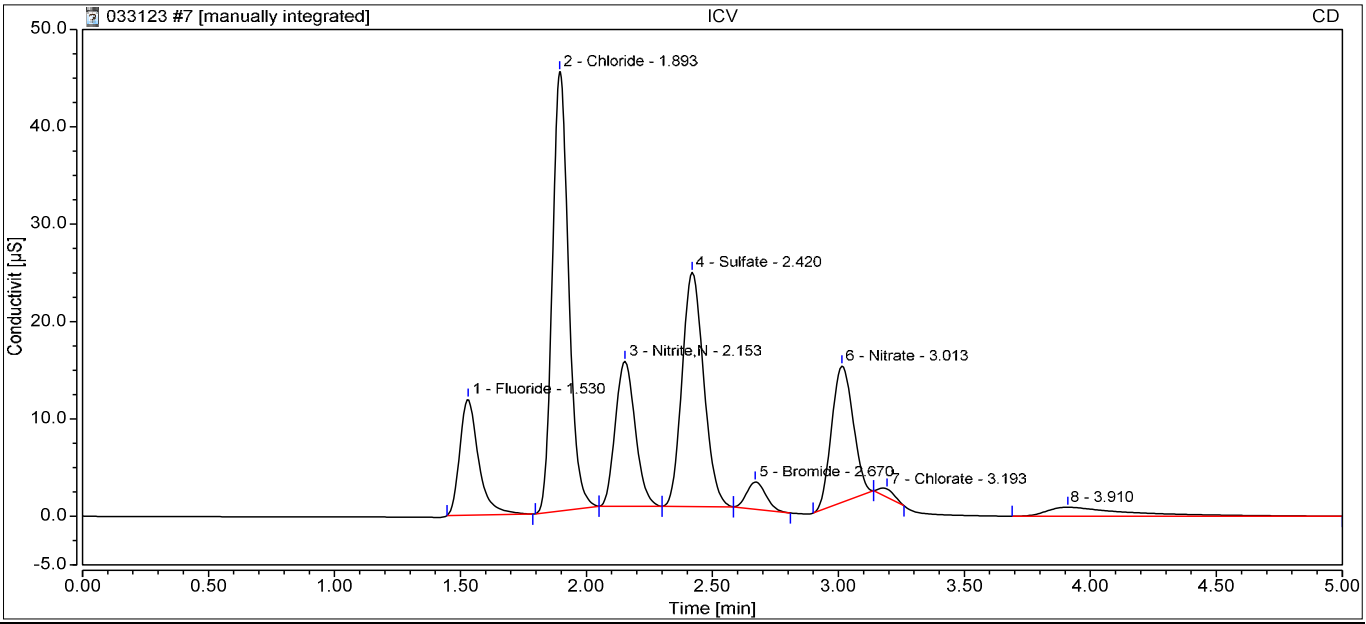
Integration Results

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:



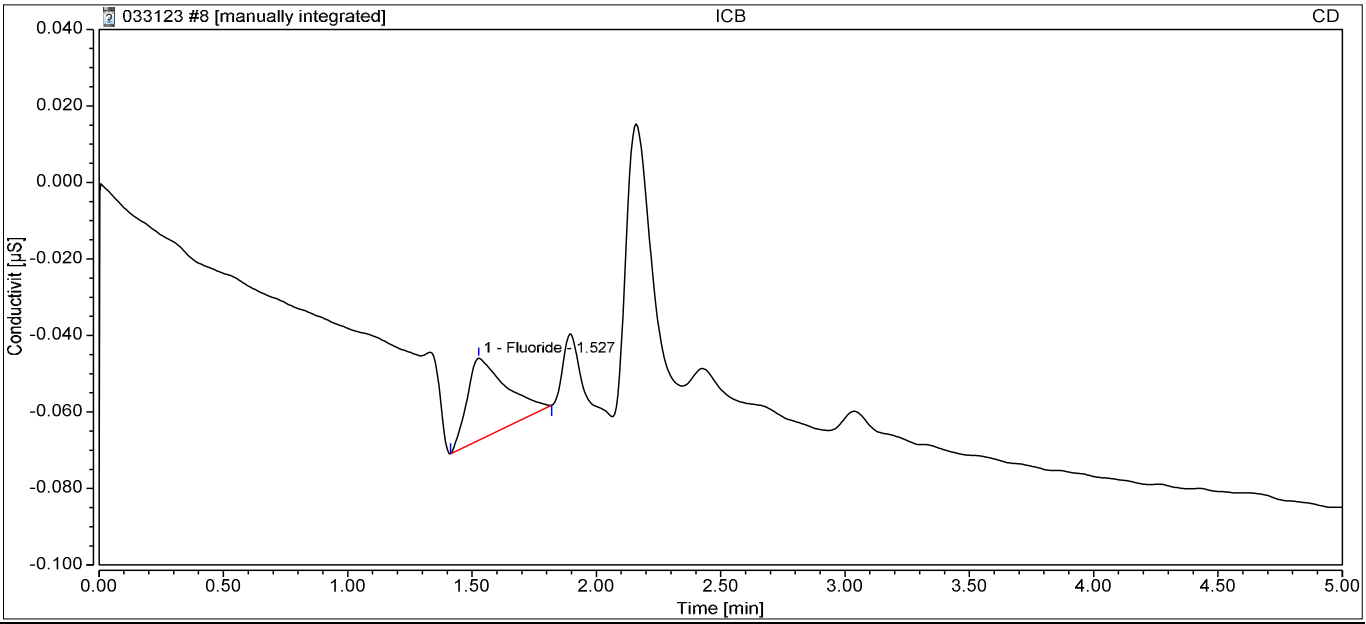
Integration Results

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:



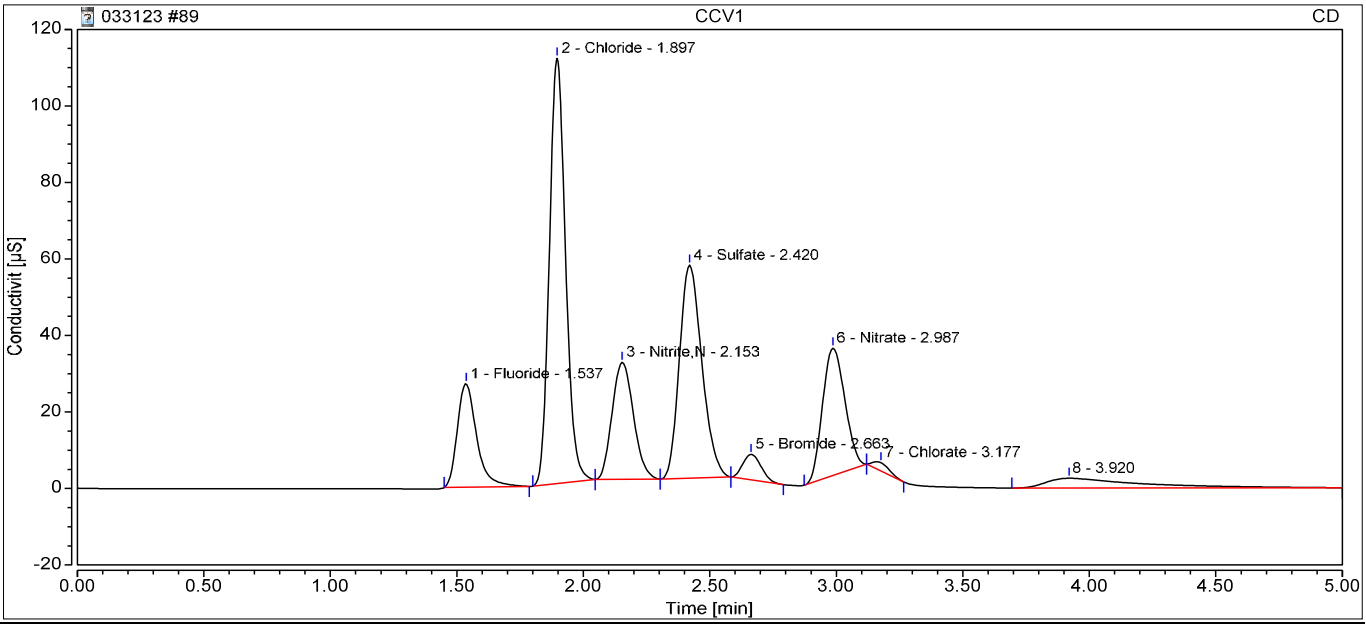
Integration Results

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**	

89 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:	**03/31/2023 18:56**	*Sample Weight:*	**1.0000**

Run Time:

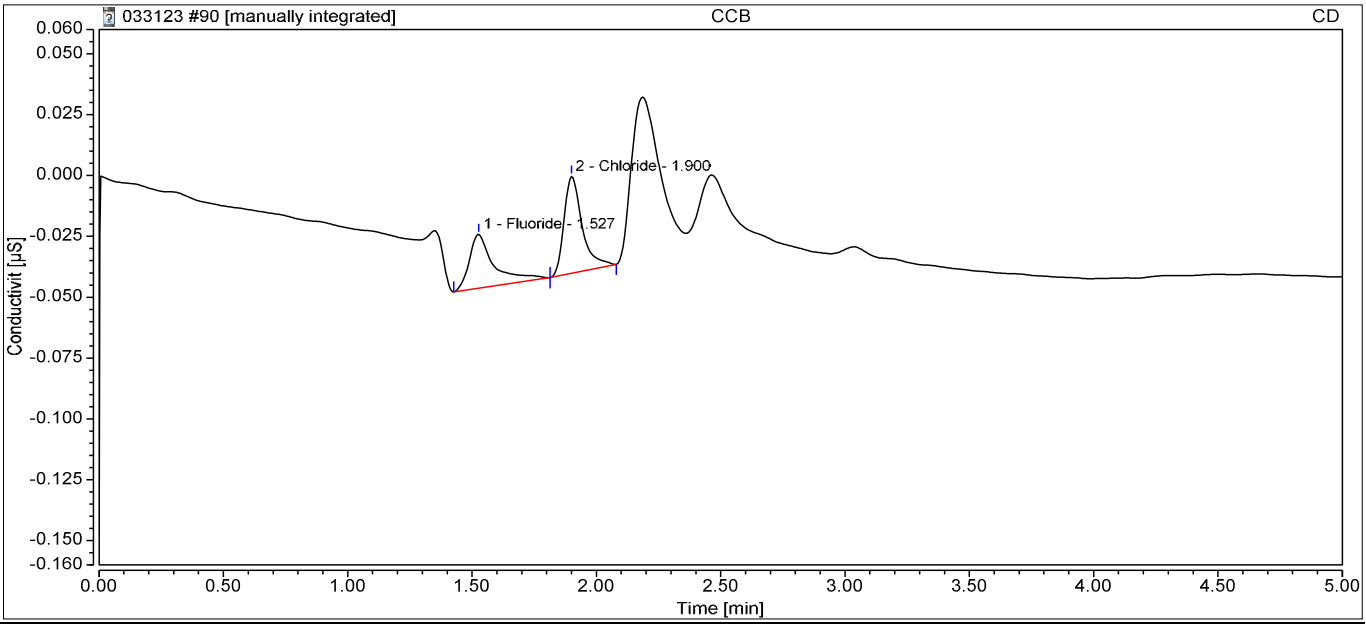


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.54	Fluoride	BMB	2.398	9.7832	9.7832	1.0000
2	1.90	Chloride	BMB	8.211	49.5405	49.5405	1.0000
3	2.15	Nitrite,N	BMB	2.989	9.8177	9.8177	1.0000
4	2.42	Sulfate	BMB	5.725	50.0212	50.0212	1.0000
5	2.66	Bromide	BMB	0.566	9.4959	9.4959	1.0000
6	2.99	Nitrate	BMB	3.404	10.0632	10.0632	1.0000
7	3.18	Chlorate	BMB	0.162	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**23.454**		**138.72**	

90 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:	**03/31/2023 19:08**	*Sample Weight:*	**1.0000**

Run Time:



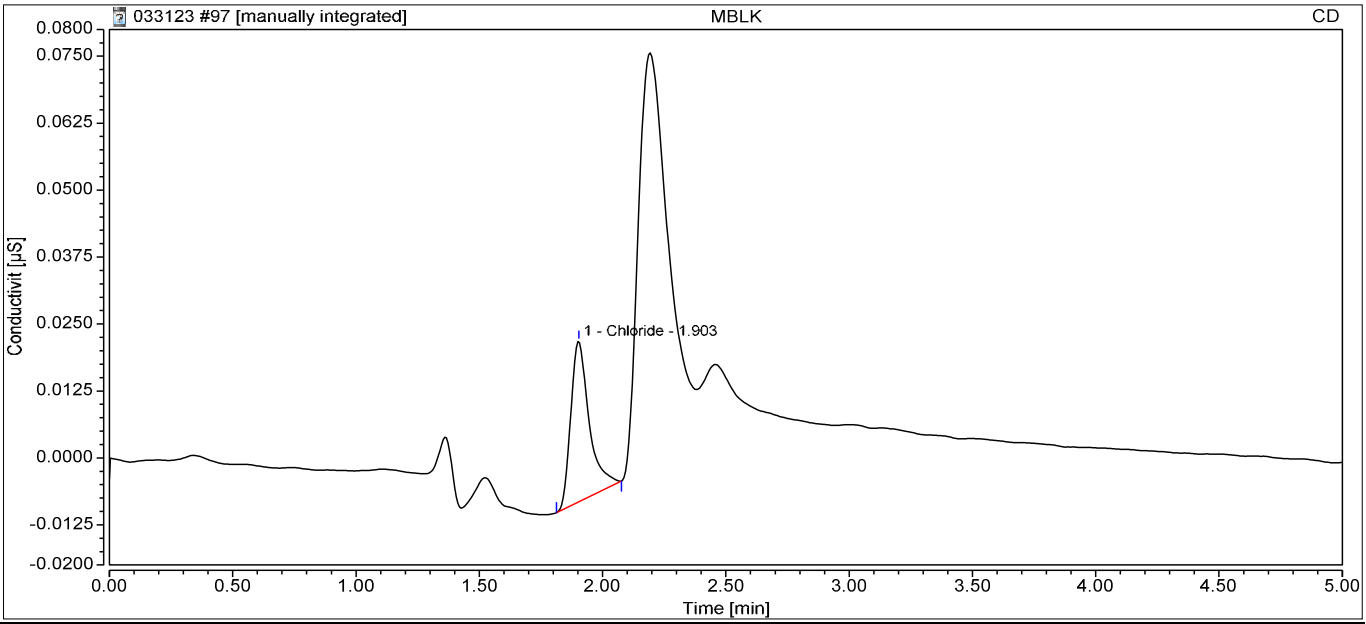
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.003	0.0303	0.0303	1.0000
2	1.90	Chloride	BMB	0.003	0.1439	0.1439	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**	**0.006**		**0.17**	

97 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:	**03/31/2023 20:06**	*Sample Weight:*	**1.0000**

Run Time:

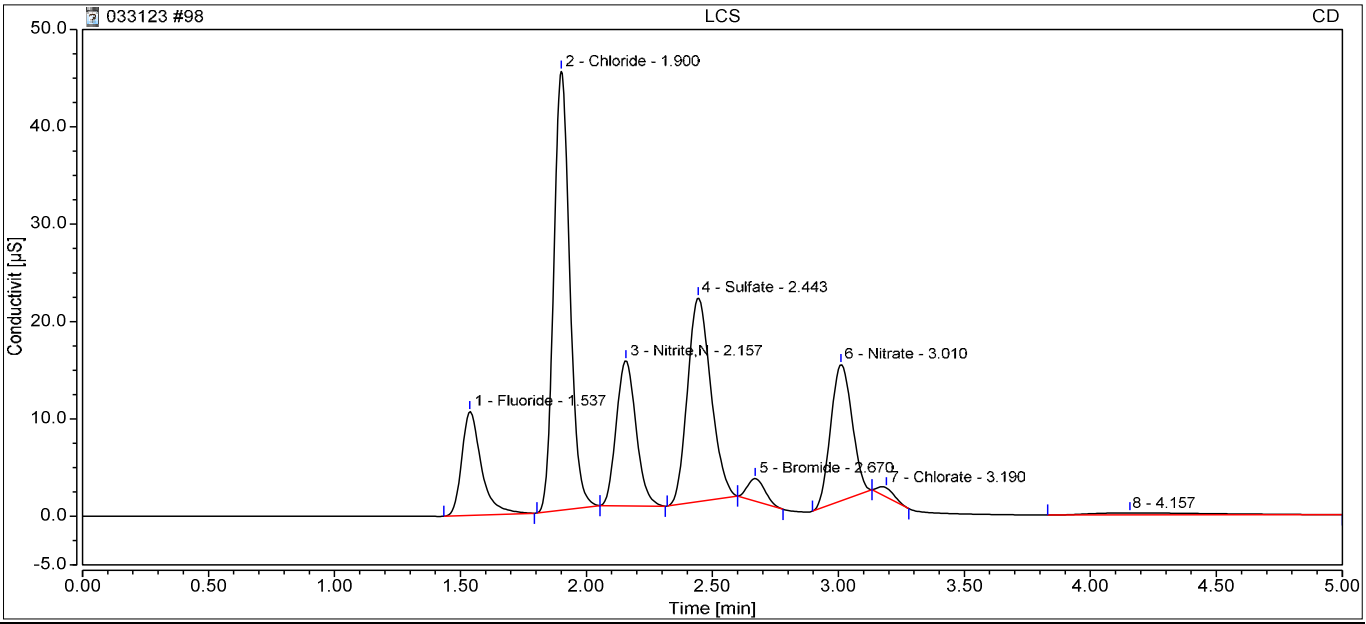


Integration Results

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
1	1.90	Chloride	BMB	0.003	0.1393	0.1393	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**		**0.14**	

98 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:	**03/31/2023 20:12**	*Sample Weight:*	**1.0000**

Run Time:



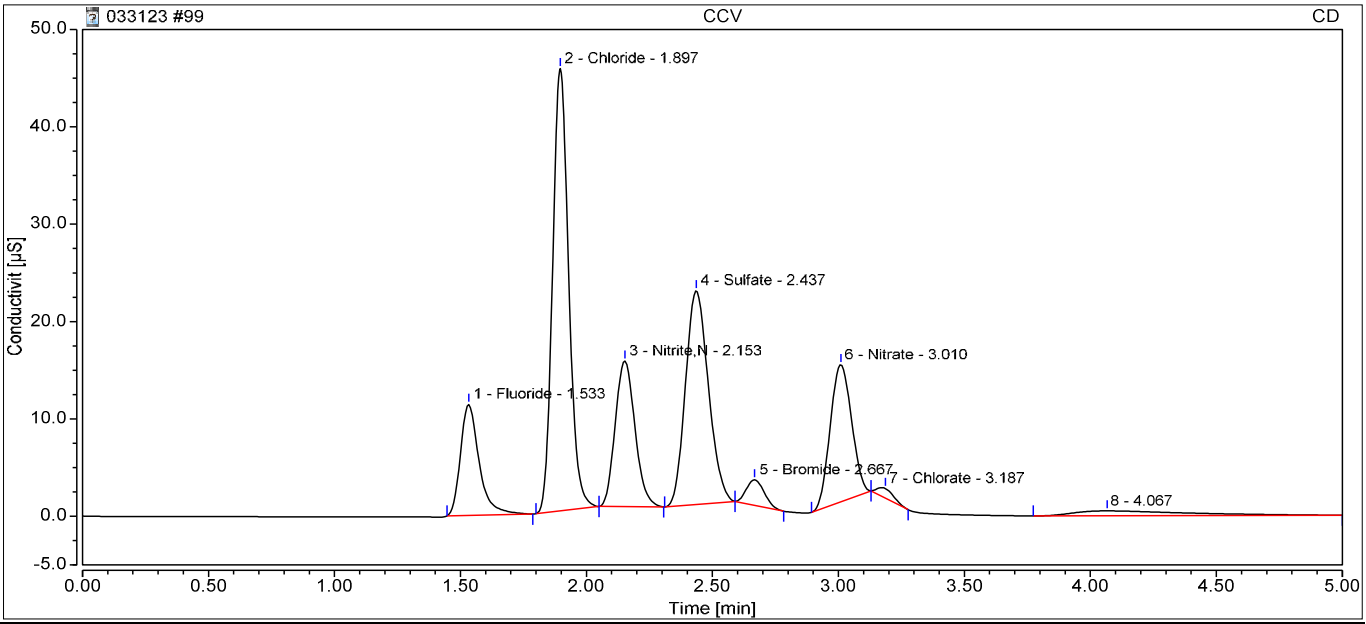
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.54	Fluoride	BMB	0.964	3.9461	3.9461	1.0000
2	1.90	Chloride	BMB	3.329	20.1610	20.1610	1.0000
3	2.16	Nitrite,N	BMB	1.355	4.0849	4.0849	1.0000
4	2.44	Sulfate	BMB	2.252	19.7397	19.7397	1.0000
5	2.67	Bromide	BMB	0.187	3.1618	3.1618	1.0000
6	3.01	Nitrate	BMB	1.378	4.0835	4.0835	1.0000
7	3.19	Chlorate	BMB	0.070	4.9659	4.9659	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.536**		**60.14**	

99 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:	**03/31/2023 20:23**	*Sample Weight:*	**1.0000**

Run Time:



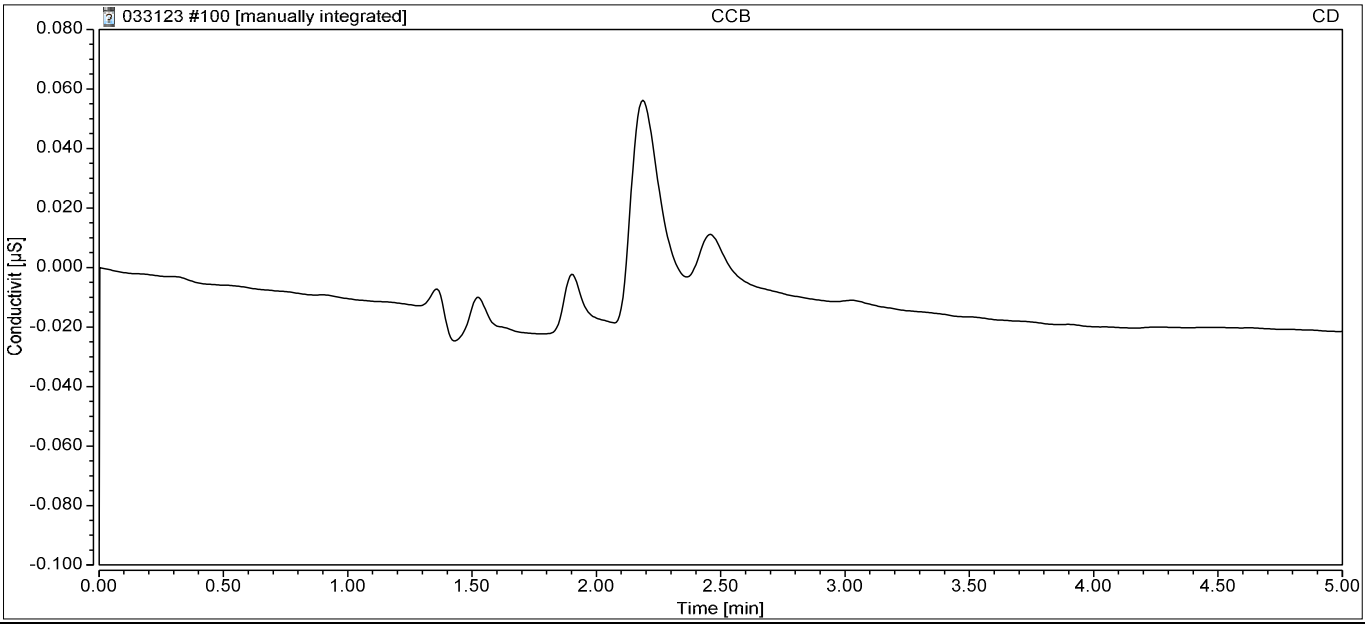
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.985	4.0284	4.0284	1.0000
2	1.90	Chloride	BMB	3.349	20.2774	20.2774	1.0000
3	2.15	Nitrite,N	BMB	1.360	4.0987	4.0987	1.0000
4	2.44	Sulfate	BMB	2.316	20.2974	20.2974	1.0000
5	2.67	Bromide	BMB	0.216	3.6467	3.6467	1.0000
6	3.01	Nitrate	BMB	1.386	4.1078	4.1078	1.0000
7	3.19	Chlorate	BMB	0.072	5.1705	5.1705	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**9.684**		**61.63**	

100 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:	**03/31/2023 20:35**	*Sample Weight:*	**1.0000**

Run Time:



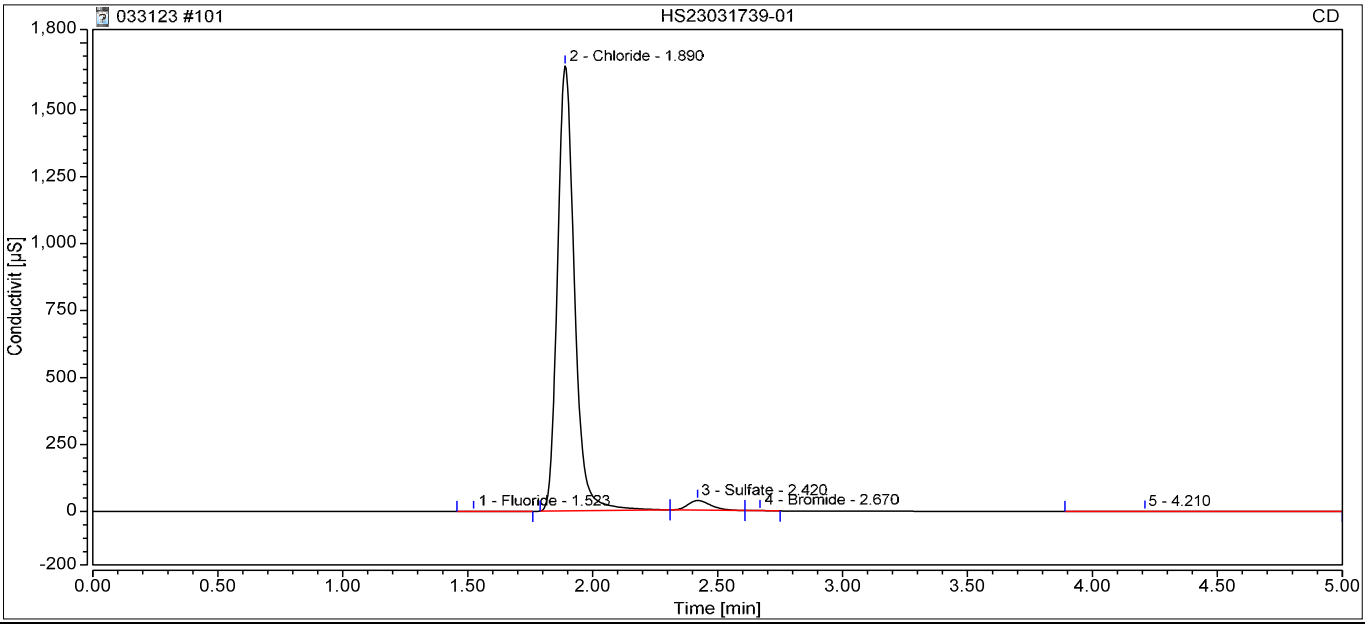
Integration Results

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**	

101 HS23031739-01

Sample Name:	**HS23031739-01**	*Injection Volume:*	**5.00**
Vial Number:	**GD4**	*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:	**03/31/2023 20:41**	*Sample Weight:*	**1.0000**

Run Time:



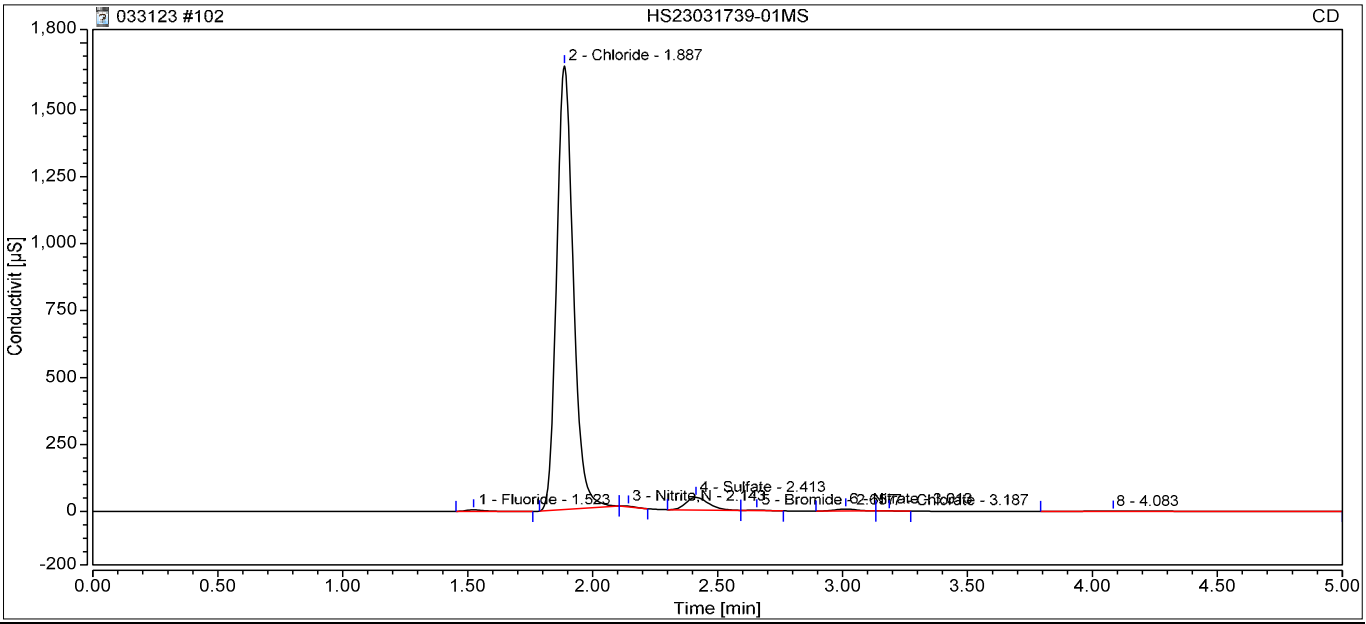
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.034	0.1596	0.1596	1.0000
2	1.89	Chloride	BMB	131.144	789.3797	789.3797	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.42	Sulfate	BMB	3.779	33.0529	33.0529	1.0000
4	2.67	Bromide	BMB	0.040	0.7052	0.7052	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**	**134.997**		**823.30**	

102 HS23031739-01MS

Sample Name:	**HS23031739-01MS**	*Injection Volume:*	**5.00**
Vial Number:	**GD5**	*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:	**03/31/2023 20:46**	*Sample Weight:*	**1.0000**

Run Time:



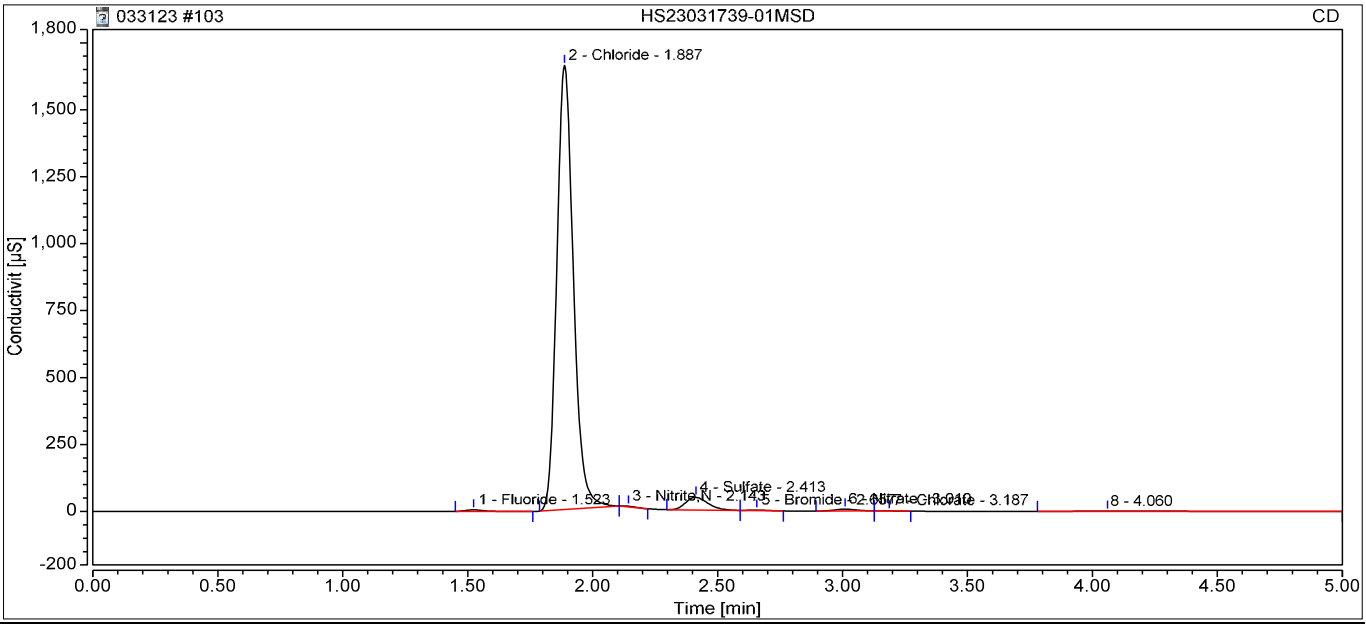
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.486	1.9989	1.9989	1.0000
2	1.89	Chloride	BMB	127.737	768.8763	768.8763	1.0000
3	2.14	Nitrite,N	BMB	0.125	0.3819	0.3819	1.0000
4	2.41	Sulfate	BMB	4.873	42.5939	42.5939	1.0000
5	2.66	Bromide	BMB	0.147	2.5080	2.5080	1.0000
6	3.01	Nitrate	BMB	0.689	2.0504	2.0504	1.0000
7	3.19	Chlorate	BMB	0.033	2.1671	2.1671	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**134.091**		**820.58**	

103 HS23031739-01MSD

Sample Name:	**HS23031739-01MSD**	*Injection Volume:*	**5.00**
Vial Number:	**GD6**	*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:	**03/31/2023 20:52**	*Sample Weight:*	**1.0000**

Run Time:



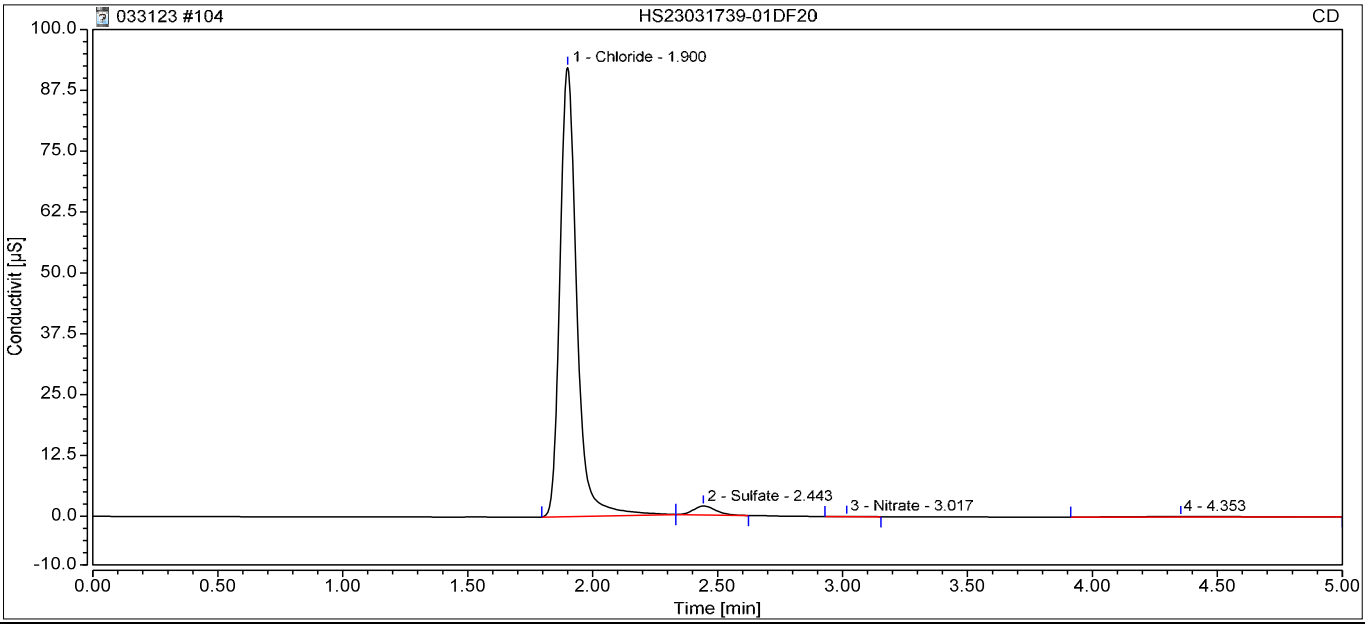
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB	0.506	2.0810	2.0810	1.0000
2	1.89	Chloride	BMB	127.863	769.6341	769.6341	1.0000
3	2.14	Nitrite,N	BMB	0.124	0.3786	0.3786	1.0000
4	2.41	Sulfate	BMB	4.903	42.8580	42.8580	1.0000
5	2.66	Bromide	BMB	0.154	2.6251	2.6251	1.0000
6	3.01	Nitrate	BMB	0.689	2.0488	2.0488	1.0000
7	3.19	Chlorate	BMB	0.036	2.4049	2.4049	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**134.276**		**822.03**	

104 HS23031739-01DF20

Sample Name:	**HS23031739-01DF20**	*Injection Volume:*	**5.00**
Vial Number:	**GD7**	*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:	**03/31/2023 20:58**	*Sample Weight:*	**1.0000**

Run Time:



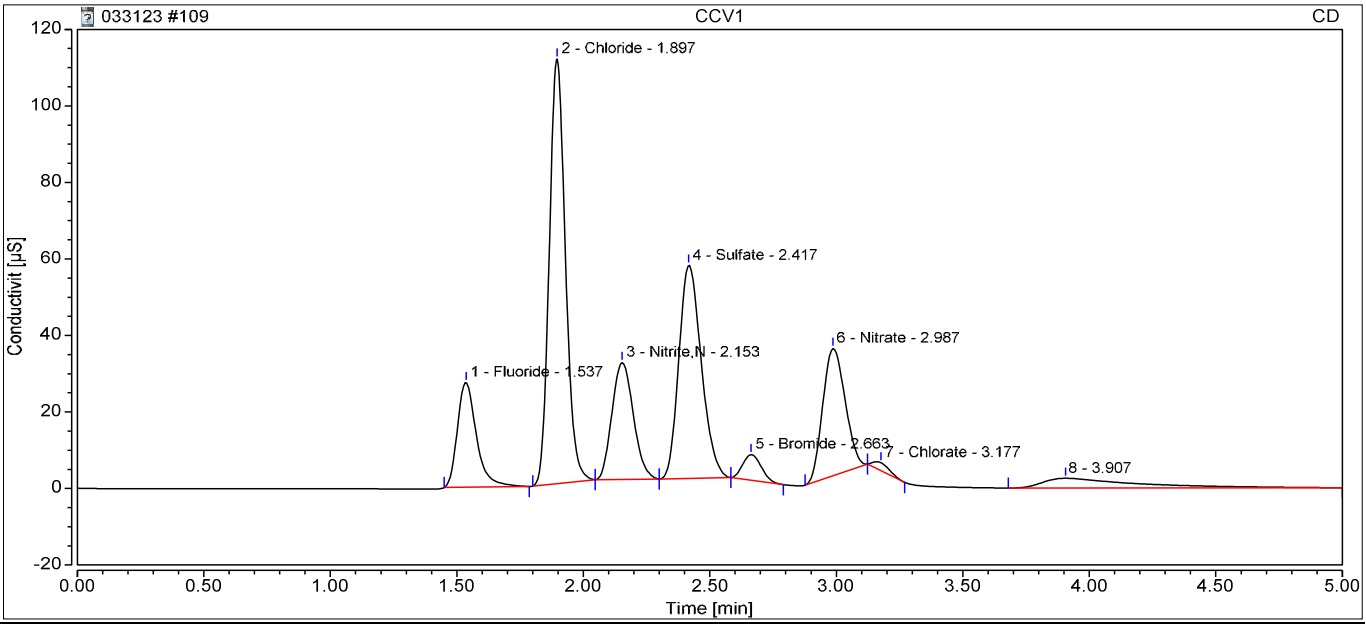
Integration Results

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	7.212	43.5286	870.5716	20.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	20.0000
2	2.44	Sulfate	BMB	0.187	1.7232	34.4632	20.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	20.0000
3	3.02	Nitrate	BMB	0.003	0.0232	0.4636	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**	**7.401**		**905.50**	

109 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:	**03/31/2023 21:39**	*Sample Weight:*	**1.0000**

Run Time:



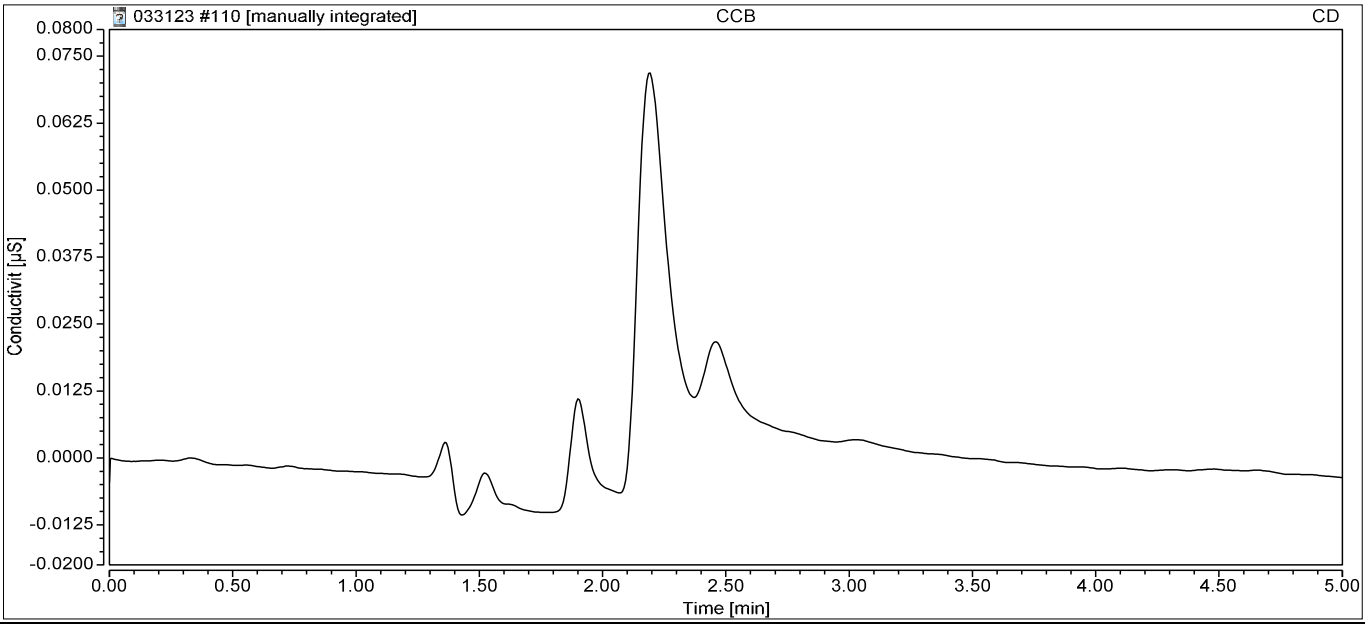
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.54	Fluoride	BMB	2.394	9.7638	9.7638	1.0000
2	1.90	Chloride	BMB	8.196	49.4497	49.4497	1.0000
3	2.15	Nitrite,N	BMB	2.986	9.8050	9.8050	1.0000
4	2.42	Sulfate	BMB	5.727	50.0407	50.0407	1.0000
5	2.66	Bromide	BMB	0.572	9.6126	9.6126	1.0000
6	2.99	Nitrate	BMB	3.402	10.0586	10.0586	1.0000
7	3.18	Chlorate	BMB	0.152	n.a.	n.a.	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**23.430**		**138.73**	

110 CCB

Sample Name:	**CCB**	*Injection Volume:*	**5.00**
Vial Number:	**G7**	*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:	**03/31/2023 22:08**	*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**	

Subject: **Final Monthly Managers' Meeting (MMM), Longhorn Army Ammunition Plant (LHAAP)**
Location of Meeting: **WebEx**
Date of Meeting: **19 July 2023 – 10:00 AM Central Daylight Time (CDT)**

Attendees:

USAEC:	Lena Sierocinski (LS)
USEPA:	Brian Follin (BF)
USGS:	Tim Bartos
BRAC:	Kyle Russell (KR)
USACE:	Aaron Williams (AW)
TCEQ:	April Palmie (AP) (remote call in)
PCI/Bhate JV:	Scott Beesinger (SB) and Kim Nemmers (KN)
APTIM:	William Foss (WF)
HDR:	Gregory Kelly (GK) and Phillip Werner (PW)
TLI:	Jonathan Tatman (JT)

Defense Environmental Restoration Program (DERP) Performance-Based Remediation Update

There were no outstanding action items to discuss.

Groundwater Treatment Plant (GWTP) – KN discussed the status of the sand filter and actions being taken to increase the flow through the sand filter. She explained that the reason for the decreased flow caused by hardening of the sand was partially due to the polymer and clarifier pumps not properly operating prior to the GWTP shut-down at the end of March 2023. KN said that the sand filter is currently being backwashed and air sparged to improve flow, which currently allows approximately 100 gallons per minute (gpm). She explained that there was a storm on Sunday that created flow in the bayou, allowing discharge from the GWTP to the bayou. The increase in discharge will allow for increasing flow and ultimately flushing of the sand. However, KN explained that the sand may need to be replaced in its entirety if backwashing and air sparging does not further increase the flow. KN explained that there has been some issues with availability of the pumps and that different vendors are being evaluated. KN explained that the pumps needed to be replaced before sand would be replaced to eliminate potential polymer issue now being observed.

LS asked about the standard flow for the sand filter. SB indicated that the flow through the sand filter is typically about 200 gpm but we are currently at 100 gpm. LS asked how often the sparging is occurring and asked for an estimate to get the flow up to 200 gpm. SB said that sparging is being done twice a week and that he could not provide a definitive answer as to when the sand filter will be back to normal flows. KN reiterated that being able to discharge to the bayou will allow for increase flushing and flow through the GWTP but a decision will need to be made in the next 30 days with regards to replacing the sand if air sparging and backwashing does not improve the flow.

BF asked if the reduction in flow was impacting hydraulic control and asked for additional sampling or similar actions to ensure that plume migration is not occurring. BF stated that the EPA had concerns about hydraulic control even with the improvement of the flow to 100 gpm. AW reminded KN of the new monitoring well installed in June 2023. KN agreed that a new monitoring well (1824DPTMW07) was installed downgradient of 18WW08 to help define the shallow zone contaminants of concern between the Interceptor Collection Trench (ICT) boundary and Harrison

Bayou. KN explained that the new well needs to be surveyed and will then be sampled. SB stated that surface water samples at three locations had been completed the day before. KN suggested that the hydraulic control is unlikely to be significantly impacted regardless of the flow through the sand filter because the water extracted is able to be stored in 300,000 gallon influent tank. To that end, KN offered to provide the July 2023 potentiometric map to the team earlier than in the 3rd quarter GWTP Report. KN also agreed to provide updates as the pump replacements and progress of the GWTP repairs and optimizations.

Field Work – SB said that performance monitoring at LHAAP-16 was almost complete. He explained that sampling of LHAAP-04 and LHAAP-29 was planned for August 2023. SB also explained that there are some leaks along the potable water line that are going to need to be repaired.

KN asked everyone to refer to the Document and Issues (DI) Tracking Table for July 2023.

- **Tasks 1 -5** (Project Management) –KN said that the May and June 2023 minutes were final. KN said that the Restoration Advisory Board (RAB) minutes were currently under Army/AEC review, which AW confirmed. KN stated that the next RAB meeting would be 18 November 2023. AP indicated that she would have the remedial design engineer that has been helping her with reviews attending the RAB meeting in November 2023.
- **Task 6** (LHAAP-04) – KN said that the Year 4, 2nd semiannual RA-O sampling event is scheduled for August 2023, with the validated data to be presented at the September 2023 MMM.
- **Task 7** (LHAAP-12) – KN said that the LHAAP-12 2022 Annual RAO Report was considered final as of the beginning of July 2023.
- **Task 8** (LHAAP-16) –WF said that the Year 4, 1st Semiannual RA-O Sampling is being completed in July 2023, with the validated data package to be provided for the September 2023 MMM. WF said that the Year 2 RA-O Report was finalized in May 2023. WF said that the Year 3 RA-O Report would be submitted to the Regulators in Late August or Early September 2023.
- **Task 9** (LHAAP-18/24/GWTP) – KN said the semiannual sampling event was completed in June 2023 with the validated data package will be provided at the August 2023 MMM. KN said that the 1st Quarter 2023 GWTP Report is under Army review and will be submitted to the Regulators in July 2023.
- **Task 10** (LHAAP-37) –WF said that the Draft Year 6 Annual RA-O Report is under preparation with a tentative delivery date in August 2023.
- **Task 11** (LHAAP-46) – WF stated that the Year 8 RA-O report is considered final as of the beginning of July 2023.
- **Task 12** (LHAAP-50) **–** KN said that the Year 9 semi-annual RA-O sampling was completed in May 2023 and the validated data deliverable was included in the July 2023 MMM validated data. She also said that the Year 9 RA-O Report is in progress for submittal for submittal in September 2023.
- **Task 13** (LHAAP-58) – KN said that the Year 9 2nd semiannual RA-O Sampling event was completed June 2023 with the validated data deliverable to be presented at the August 2023 MMM. KN said that the Year 9 RA-Report will be prepared following the December 2023 sampling event.
- **Task 14** (LHAAP-67) – WF said that comments were received on 3 July 2023 from the EPA on the Draft Year 9 Annual RA-O Report and are being addressed.

- **Task 16** (Surface Water) –KN restated that the 2nd Quarter 2023 sampling was completed on 18 July 2023 and validated data should be presented at the August 2023 MMM.
- **Task 17** (2023 Land Use Control [LUC] Management Plan) – KN said that the 2023 LUC Management Plan Update will commence in August 2023 is scheduled for regulatory submittal in November 2023.
- **Task 18** (Administrative Record [AR]) –WF said the January through March 2023 AR is being compiled and Bates stamped for printing.

Update on other DERP Sites:

- **LHAAP 18/24 –** PW stated that TCEQ (AP) had provided comments on the 100 percent (%) design, which had been submitted to the Regulators on 28 June 2023. PW stated that comments from EPA were still pending but not due until the end of July 2023.
- **LHAAP-29** – PW stated that 100% RD had been reviewed by USACE/AEC including a review of the response to comments. PW said the submittal is on schedule for submission to the Regulators on or before 15 August 2023.
- **LHAAP-47** – GK said that the field work was completed in June 2023 with the final data package received. GK said the data was being validated and the Pre-Design Investigation (PDI) Report was on schedule for the 19 October 2023 submittal date. AP referenced the technical memorandum for the installation of the additional wells and asked if the wells would be discussed in the PDI Report. GK said that the additional wells will be installed in the next fiscal year such that the information would need to be included in an update of the PDI Report, once that report was completed. AP clarified that an addendum to the PDI Report or technical memorandum would be prepared. GK said that he would discuss with AW but that an Addendum may be a good approach for incorporation of the new wells.
- **LHAAP-17** – JT stated that comments were received on the Draft Interim Remedial Action Completion Report (IRACR) from the regulators the week prior. JT said that the comments were being addressed and that the text was being revised using a redline-track changes to assist the Regulators with backcheck. JT said that he expected the revisions to be provided the first week in August 2023. JT said that discussion on an Explanation of Significant Difference and/or LUCs may occur following resolution of the comments on the IRACR. JT said that the Year 1 RA-O Report is in progress with a tentative delivery data in September 2023. JT stated that the 7th performance monitoring event was completed in June 2023, with the validated data to be presented at the August 2023 MMM. JT said that the Year 1 RA-O Report was on schedule for delivery to the Regulators in September 2023.

  AP asked that the IRACR responses and revisions be clearly presented due to the size of the document. KN then noted that the extraction system is supposed to operate for 18 months to reduce the perchlorate. She noted that the Record of Decision includes a contingent action but that the extraction system is performing well. KN suggested that a discussion of the LHAAP-17 results and system performance be included in the November 2023 MMM when everyone is together.

Per- and polyfluoroalkyl substances (PFAS) Update:

LS stated that the Final Preliminary Assessment (PA)/Site Inspection (SI) Report for PFAS was submitted to the Regulators. Comments on the PA/SI Report were received by the TCEQ. EPA comments are due by the end of the day. BF said that he would submit comments in the next few hours. AP asked about next steps. AW indicated that the plan is to include the follow-on PFAS work into the five-year contract for LHAAP.

Transfer Update:

KR said that the Environmental Condition of Property (ECP) is under review with comments anticipated next week. If there are no comments, then the ECP will be submitted up to BRAC for signature. The transfer package will then be submitted to United States Fish and Wildlife and General Services Administration.

Schedule Next Managers' Meeting: KN said the next MMM will be held via WebEx on Wednesday 16 August 2023 at 10:00 AM CDT.

Meeting concluded at approximately 10:45 AM CDT.

ACRONYM LIST

%	percent
AP	April Palmie
AR	Administrative Record
AW	Aaron Williams
BF	Brian Follin
BRAC	Base Realignment and Closure
CDT	Central Daylight Time
DERP	Defense Environmental Restoration Program
DI	Documents and Issues
ECP	Environmental Condition of Property
GK	Gregory Kelly
gpm	gallons per minute
GWTP	Groundwater Treatment Plant
ICT	Interceptor Collection Trench
IRACR	Interim Remedial Action Completion Report
JT	Jonathan Tatman
KN	Kim Nemmers
KR	Kyle Russell
LHAAP	Longhorn Army Ammunition Plant
LS	Lena Sierocinski
LUC	Land Use Control
MMM	Monthly Managers' Meeting
PA	Preliminary Assessment
PBJV	Poarch Creek Indians, Governmental Services, LLC /Bhate Environmental Associates Joint Venture
PDI	Pre-Design Investigation
RAB	Restoration Advisory Board
RA-O	Remedial Action – Operation
RD	Remedial Design
SB	Scott Beesinger
SI	Site Inspection
TCEQ	Texas Commission on Environmental Quality
USACE	United States Army Corps of Engineers
USAEC	United States Army Environmental Command
USEPA	United States Environmental Protection Agency
WF	William (Bill) Foss

LHAAP Validated Data
July 2023 MMM

LHAAP-50

Semi-Annual Sampling Event - May 2023
Volatile Organic Compounds (8260C)
Perchlorate (6850)
Dissolved Gases (RSK-175)
Anion (9056A)
Total Organic Carbon (415.1)

GWTP Effluent

Weekly, Biweekly and Perchlorate Sampling –June 2023
Perchlorate (6850)
Ortho-Phosphate (365.3)
Total Organic Carbon (415.1)
Ammonia (350.3)
VOC (8260C)
Anions (9056A)

LHAAP-50 Year 9 Remedial Action Operation Validated Data - May 2023

Location ID: Sample Date:	Units	MCL/MSC	50WW05_052523 5/25/23	50WW06_052423 5/24/23	50WW08_052423 5/24/23	50WW09_052423 5/24/23	50WW11_052423 5/24/23	50WW12_052523 5/25/23	50WW12_052523_a 5/25/23	50WW13_052423 5/24/23	50WW14_052523 5/25/23
Location Description			Upper, cross gradient	Lower, in plume	Upper, on-site	Lower, on-site upgradient	Upper, in plume	Upper, in plume	Upper, in plume Field Duplicate	Upper, in plume	Lower, in plume
Location Depth			Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Lab Package			HS23051834	HS23051708	HS23051708	HS23051708	HS23051708	HS23051834	HS23051834	HS23051708	HS23051834
Total Organic Carbon (415.1/SM5310C)											
Total Organic Carbon	mg/L	NV	NA	**1.83**	NA	NA	**1.50**	**2.05**	**1.96**	**1.59**	**1.41**
Volatile Organic Compounds (8260C)											
1,1-Dichloroethene	µg/L	7	**3.1**	< 0.50 U	**1.1**	< 0.50 U	**2.1**	**19**	**19**	**1.5**	< 0.50 U
1,2-Dichloroethane	µg/L	5	**1.2**	< 0.50 U	**1.5**	< 0.50 U	**1.9**	**6.3**	**6.6**	**3.0**	< 0.50 U
cis-1,2-Dichloroethene	µg/L	70	**130**	< 0.50 U	**85**	**1.1**	**8.5**	**1.6**	**1.6**	**30**	**2.1**
Tetrachloroethene	µg/L	5	**0.65 J**	< 0.50 U	**1.8**	< 0.50 U	**0.82 J**	< 0.50 U	< 0.50 U	**2.2**	< 0.50 U
Trichloroethene	µg/L	5	**130**	**13**	**650**	**11**	**250**	**1,100**	**1,100**	**490**	**20**
Vinyl chloride	µg/L	2	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Anions (9056A)											
Chloride	mg/L	NV	NA	**3.89**	NA	NA	335	**1,150**	**1,150**	**401**	**409**
Nitrate	mg/L	10	NA	**0.144**	NA	NA	< 0.0500 U	**0.164**	**0.157**	**0.119**	< 0.0500 U
Sulfate	mg/L	NV	NA	**12.1**	NA	NA	**324**	**616**	**613**	**374**	**408**
Dissolved Gases (RSK-175)											
Carbon Dioxide	µg/L	NV	NA	**30,000**	NA	NA	**42,000**	**64,000**	**64,000**	**38,000**	**49,000 J**
Ethane	µg/L	NV	NA	< 0.500 U	NA	NA	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
Ethene	µg/L	NV	NA	< 0.500 U	NA	NA	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U	< 0.500 U
Methane	µg/L	NV	NA	**0.821**	NA	NA	**4.07**	**14,800**	**12,100**	**1.55**	**6.76**
Perchlorate 6850											
Perchlorate	µg/L	17*	**0.130**	**5.79**	**81.1**	**0.712**	**570**	**79,100**	**84,500**	**186**	**0.168**

Blue Highlighting Indicates concentrations above the MCL/MSC

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations

NA - Not Analyzed

µg/L - micrograms per liter

mg/L - milligrams per liter

J - Estimated: Between the method detection limit and reporting limit and/or due to discrepancies in meeting certain analyte-specific quality control criteria.

U - Undetected: The analyte was analyzed for, but not detected.

UJ - estimated non-detect due to discrepancies in meeting certain analyte-specific quality control criteria.

NV - No Value

Bold values are detected analytes

*Perchlorate compared to the (PCL) – Texas Risk Reduction Program (TRRP) Tier 1 Groundwater Residential Protective Concentration Level

LHAAP-50 Year 9 Remedial Action Operation Validated Data - May 2023

Location ID: Sample Date:	Units	MCL/MSC	50WW15_052523 5/25/23	50WW16_052523 5/25/23	50WW16_052523_a 5/25/23	50WW18_052523 5/25/23	50WW22_052423 5/24/23	50WW23_052523 5/25/23	50WW29_052423 5/24/23
Location Description			Upper, cross gradient North	Upper, cross gradient North	Upper, cross gradient North Field Duplicate	Upper, down gradient NE	Upper, upgradient SE	Upper, cross gradient SW	Upper
Location Depth			Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow
Lab Package			HS23051834	HS23051834	HS23051834	HS23051834	HS23051708	HS23051834	HS23051708
Total Organic Carbon (415.1/SM5310C)									
Total Organic Carbon	mg/L	NV	NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds (8260C)									
1,1-Dichloroethene	µg/L	7	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
1,2-Dichloroethane	µg/L	5	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
cis-1,2-Dichloroethene	µg/L	70	**3.2**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Tetrachloroethene	µg/L	5	**1.4**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Trichloroethene	µg/L	5	**6.1**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Vinyl chloride	µg/L	2	**0.52 J**	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U	< 0.50 U
Anions (9056A)									
Chloride	mg/L	NV	NA	NA	NA	NA	NA	NA	NA
Nitrate	mg/L	10	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/L	NV	NA	NA	NA	NA	NA	NA	NA
Dissolved Gases (RSK-175)									
Carbon Dioxide	µg/L	NV	NA	NA	NA	NA	NA	NA	NA
Ethane	µg/L	NV	NA	NA	NA	NA	NA	NA	NA
Ethene	µg/L	NV	NA	NA	NA	NA	NA	NA	NA
Methane	µg/L	NV	NA	NA	NA	NA	NA	NA	NA
Perchlorate 6850									
Perchlorate	µg/L	17*	**0.113**	**0.0369 J**	< 0.0500 U	< 0.0500 U	**0.981**	**0.0857 J**	**0.0701 J**

Blue Highlighting Indicates concentrations above the MCL/MSC

MCL/MSC - Maximum Contaminant Limit/Medium-Specific Concentrations

NA - Not Analyzed

µg/L - micrograms per liter

mg/L - milligrams per liter

J - Estimated: Between the method detection limit and reporting limit and/or due to discrepancies control criteria.

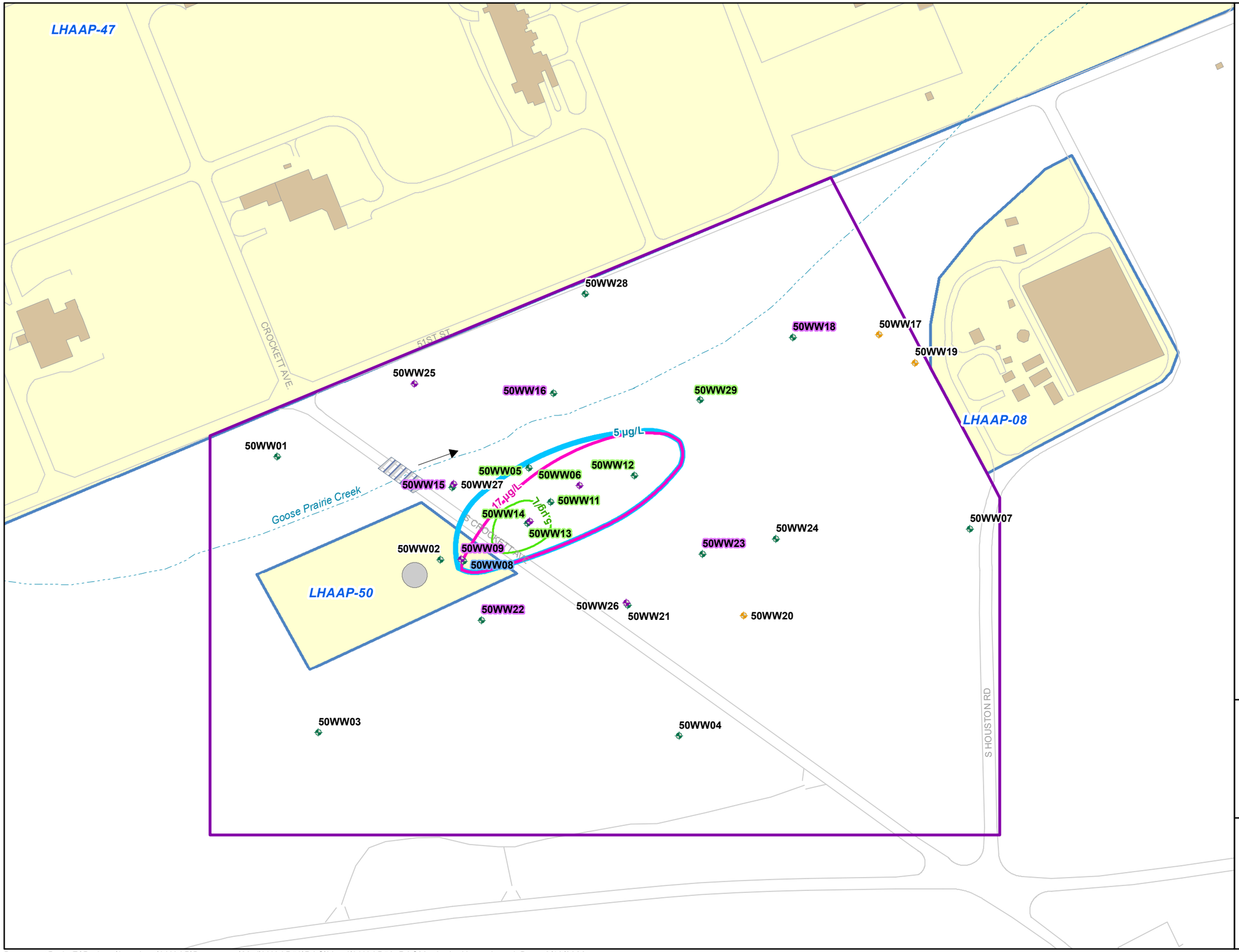
U - Undetected: The analyte was analyzed for, but not detected.

UJ - estimated non-detect due to discrepancies in meeting certain analyte-specific quality control

NV - No Value

Bold values are detected analytes

*Perchlorate compared to the (PCL) – Texas Risk Reduction Program (TRRP) Tier 1 Groundwater R



- Lower Shallow Monitoring Well
- Upper Shallow Monitoring Well
- Fully Penetrating Shallow Monitoring Well
- 1,2-DCA Contour
- Perchlorate Contour (*Dashed where inferred*)
- TCE Contour
- Goose Praire Creek Flow Direction
- Goose Prairie Creek
- Roads
- Land Use Control Boundary
- Bridges
- Former Storage Tank Location
- Buildings
- Site Boundaries

50WW22 = Annual LTM Well

50WW08 = RA-O Monitoring Well

50WW13 = Both Annual LTM Well and RA-O Monitoring Well

0 75 150 Feet

U.S. ARMY CORP OF ENGINEERS
TULSA DISTRICT
TULSA, OKLAHOMA

bhate APTIM

Figure 2-1

RA-O Monitoring Network
LHAAP-50 Eighth Annual RA-O Report

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS

Document Path: F:\Projects\Longhorn\LHAAP\Documents\Mxd\LHAAP50\RAO\Year8\LHAAP50_RAOMonitoringNetwork.mxd Date: 8/10/2022

GWTP Weekly/Effluent Perchlorate Sampling - June 2023

Location ID: Sample Date:	Units	Daily Maximum Conc	PCL	LH18/24-SP650_061223_BIX 6/12/23	LH18/24-SP650_061223_AIX 6/12/23	LH18/24-SP650_062723_BIX 6/27/23	LH18/24-SP650_062723_AIX 6/27/23
Location Description				Weekly	Weekly	Weekly	Weekly
Perchlorate (6850)							
Perchlorate	µg/L	589	17	**28.0**	**0.226**	**2540**	**2.58**

µg/L - micrograms per liter

BIX - before ion exchange/AIX - after ion exchange

J - estimated detection between the detection limit and limit of quantitation

Bold values are detected analytes

Blue Highlighting Indicates concentrations above the Daily Maximum Concentration and PCL

During the Reporting period all treated groundwarer was discharged through the ion exchange vessels

GWTP Weekly Sampling - June 2023

Location ID: Sample Date:	Units	Daily Maximum Conc	LH18/24-SP650_061223 6/12/23	LH18/24-SP650_062723 6/27/23
Location Description			**GWTP–Collected from a spigot on the discharge of effluent TK-650. Sampled Weekly.**	
Ammonia as N (350.3)				
Ammonia as N	mg/L	NV	**96**	**340**
Ortho-Phosphate (365.3)				
Ortho-Phosphate	mg/L	NV	**1.84**	**2.25**
Organic Carbon (415.1)				
Total Organic Carbon (TOC)	mg/L	NV	**498**	**919**

mg/L - milligrams per liter

NV - No Value

Bold values are detected analytes

GWTP Bi-Weekly Sampling - June 2023

Location ID: Sample Date:	Units	(Bayou) Daily Maximum Conc	(INF pond) MCL	LH18/24-SP650_061223 6/12/23	LH18/24-SP650_062723 6/27/23
Location Description				**GWTP – Collected from a spigot on the discharge of effluent TK-650. Sampled Biweekly.**	**GWTP – Collected from a spigot on the discharge of effluent TK-650. Sampled Biweekly.**
Volatile Organic Compounds (8260C)					
1,1,1-Trichloroethane	µg/L	7,230	200	< 0.50 U	< 0.50 U
1,1,2-Trichloroethane	µg/L	216.9	5	< 0.50 U	< 0.50 U
1,1-Dichloroethane	µg/L	14,032	NV	< 0.50 U	< 0.50 U
1,1-Dichloroethene	µg/L	253	7	< 0.50 U	< 0.50 U
1,2-Dichloroethane	µg/L	181	5	< 0.50 U	< 0.50 U
1,2-Dichloropropane	µg/L	5	5	< 0.50 U	< 0.50 U
Acetone	µg/L	2,395	NV	< 0.50 U	< 0.50 U
Benzene	µg/L	181	5	< 0.50 U	< 0.50 U
Carbon tetrachloride	µg/L	181	5	< 0.50 U	< 0.50 U
Chlorobenzene	µg/L	47,180	100	< 0.50 U	< 0.50 U
Chloroform	µg/L	3,615	NV	< 0.50 U	< 0.50 U
cis-1,2-Dichloroethene	µg/L	NV	70	**1.1**	**1.2**
Ethylbenzene	µg/L	57,025	700	< 0.50 U	< 0.50 U
m,p-Xylene	µg/L	83.6	NV	< 0.50 U	< 1.0 U
Methylene chloride	µg/L	1,699	5	< 0.50 U	< 0.50 U
o-Xylene	µg/L	83.6	NV	< 0.50 U	< 0.50 U
Styrene	µg/L	5,987	100	< 0.50 U	< 0.50 U
Tetrachloroethene	µg/L	180.7	5	< 0.50 U	< 0.50 U
Toluene	µg/L	4,189	10	< 0.50 U	< 0.50 U
Trichloroethene	µg/L	181	5	< 0.50 U	< 0.50 U
Vinyl chloride	µg/L	72	2	< 0.50 U	**2.7**
Anions (9056)					
Chloride	mg/L	NV	NV	**1,100**	**1,270**
Sulfate	mg/L	NV	NV	**19.8**	**35.4**

µg/L - micrograms per liter

mg/L - milligrams per liter

U- Undetected: The analyte was analyzed for, but not detected and reported to the limit of detection.

NV - No Value

Bold values are detected analytes

Blue Highlighting Indicates concentrations above the Maximum Contaminant Level (MCL)

During the Reporting period all treated groundwarer was discharged through the ion exchange vessels

FINAL PRELIMINARY ASSESSMENT AND SITE INSPECTION OF PER- AND POLYFLUOROALKYL SUBSTANCES

Former Longhorn Army Ammunition Plant, Texas

Prepared For:
U.S. Army Corps of Engineers, Baltimore District
2 Hopkins Plaza
Baltimore, Maryland 21201

August 2023

ARCADIS

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Preliminary Assessment and Site Inspection of Per- and Polyfluoroalkyl Substances

Former Longhorn Army Ammunition Plant, Texas

Prepared for:

U.S. Army Corps of Engineers

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EXECUTIVE SUMMARY

The United States Army (Army) is performing preliminary assessments (PAs) and site inspections (SIs) on the current or potential historical use of per- and polyfluoroalkyl substances (PFAS) with a focus on perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA), perfluorobutanesulfonic acid (PFBS), perfluorononanoic acid (PFNA), perfluorohexane sulfonate (PFHxS), and hexafluoropropylene oxide dimer acid (HFPO-DA) at Army installations nationwide. The PA identifies areas of potential interest (AOPIs) where PFAS-containing materials were used, stored, and/or disposed, or areas where known or suspected releases to the environment occurred. The SI includes multi-media sampling at AOPIs to determine whether or not a release has occurred. The SI may conclude further investigation is warranted, a removal action is required to address immediate threats, or no further action is required. This Former Longhorn Army Ammunition Plant (LHAAP) PA/SI was completed in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), National Oil and Hazardous Substances Pollution Contingency Plan, and Army/Department of Defense policy and guidance.

The Former LHAAP is in central-east Texas in the northeastern corner of Harrison County, between State Highway 43 at Karnack, Texas and the western shore of Caddo Lake. The former installation's original footprint consisted of 8,416 acres. At the time of this report, approximately 7,200 acres out of the 8,416 acres have been transferred from the Army to the United States Fish and Wildlife Service and the Caddo Lake National Wildlife Refuge has been established within the perimeter fence of the former installation. The area surrounding the Former LHAAP is primarily rural and consists of forest lands, the small towns of Karnack and Uncertain, Caddo Lake, and Caddo Lake State Park.

The Former LHAAP PA identified 12 AOPIs for investigation during the SI phase. SI sampling results from the 12 AOPIs were compared to risk-based screening levels calculated by the Office of the Secretary of Defense (OSD) for PFOS, PFOA, PFBS, PFNA, and PFHxS. Of the six PFAS compounds presented in the 06 July 2022 OSD memorandum, HFPO-DA (commonly referred to as GenX) was not included as an analyte at the time of this SI. Based on the conceptual site model (CSM) developed during the PA and revised based on SI findings, the presence of HFPO-DA is not anticipated at the Former LHAAP because HFPO-DA is generally not a component of military specification (MIL-SPEC) aqueous film forming foam (AFFF) and based on its history including distribution limitations that restricted use of GenX, it is generally not a component of other products the military used. In addition, it is unlikely that GenX would be an individual chemical of concern in the absence of other PFAS. PFOS, PFOA, PFBS, PFNA and/or PFHxS were detected in soil and/or groundwater at nine of the 12 AOPIs; eight of the nine AOPIs had PFOS, PFOA, PFBS, PFNA, and/or PFHxS present at concentrations greater than the risk-based screening levels. The Former LHAAP PA/SI identified the need for further study in a CERCLA remedial investigation. **Table ES-1** below summarizes the PA/SI sampling results and provides recommendations for further study in a remedial investigation or no action at this time at each AOPI.

Table ES-1. Summary of AOPIs Identified during the PA, PFOS, PFOA, PFBS, PFNA, and PFHxS Sampling at Former Longhorn Army Ammunition Plant, and Recommendations

AOPI Name	PFOS, PFOA, PFBS, PFNA, and/or PFHxS detected greater than OSD Risk Screening Levels? (Yes/No/ND/NS)		Recommendation
	GW	SO	
Old and New Fire Stations (Buildings 709 and 710)	Yes	No	Further study in a remedial investigation
Building 744-A Vehicle Wash Rack (LHAAP-056)	No	ND	No further action at this time
Plant Area 2 (LHAAP-046)	Yes	ND	Further study in a remedial investigation
Plant Area 3 (LHAAP-047)	Yes	No	Further study in a remedial investigation
Pilot Wastewater Treatment Plant (LHAAP-004)	ND	ND	No further action at this time
Former Waste Disposal Facility (LHAAP-050)	Yes	ND	Further study in a remedial investigation
Building 811-1 Hazardous Waste Storage Area (LHAAP-045)	ND	ND	No further action at this time
Building 31-W Container Storage Area (LHAAP-009)	ND	ND	No further action at this time
Burning Ground No. 3 (LHAAP-018)	Yes	ND	Further study in a remedial investigation
Unlined Evaporation Pond (LHAAP-024)	Yes	NS	Further study in a remedial investigation
Landfill 12 (LHAAP-012)	Yes	NS	Further study in a remedial investigation
Landfill 16 (LHAAP-016)	Yes	NS	Further study in a remedial investigation

Notes:
Light gray shading – detection greater than the OSD risk screening level
GW – groundwater
ND – non-detect
No – detection less than the OSD risk screening level
NS – not sampled
SO – soil

1 INTRODUCTION

The United States (U.S.) Army (Army) is performing preliminary assessments (PAs) and site inspections (SIs) on the current or potential historical use of per- and polyfluoroalkyl substances (PFAS) with a focus on perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA), perfluorobutanesulfonic acid (PFBS), perfluorononanoic acid (PFNA), perfluorohexane sulfonate (PFHxS), and hexafluoropropylene oxide dimer acid (HFPO-DA) at Army installations (installations) nationwide. The Army is the lead agency under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and Executive Order 12580 and is conducting the PA/SI consistent with its authority under CERCLA, 42 United States Code §§ 9600, et seq. (as amended), and the Defense Environmental Restoration Program, 10 United States Code §§ 2701, et seq. The PFAS PA/SI included two distinct efforts. The PA identified locations that are areas of potential interest (AOPIs) at the Former Longhorn Army Ammunition Plant (LHAAP) based on the use, storage and/or disposal of PFAS-containing materials, in accordance with the 2018 Army Guidance for Addressing Releases of Per-and Polyfluoroalkyl Substances (Army 2018). The SI included multi-media sampling at AOPIs to determine whether or not a release has occurred, and the analytical results were compared to the Office of the Secretary of Defense (OSD) PFOS, PFOA, PFBS, PFNA, and PFHxS risk screening levels to determine whether further investigation is warranted. HFPO-DA was not in the suite of PFAS compounds analyzed during the SI; therefore, there are no HFPO-DA SI analytical results to screen against the OSD risk screening levels. This report provides the PA/SI for the Former LHAAP and was completed in accordance with CERCLA and The National Oil and Hazardous Substances Pollution Contingency Plan.

1.1 Project Background

PFAS are a class of compounds that have been used in a wide range of industrial applications and commercial products due to their unique surface tension/leveling properties. Due to industry and regulatory concerns about the potential health effects and adverse environmental impacts, there has been a reduction in the manufacture and use of PFAS worldwide. In the U.S., significant reductions in the production, importation, and use of PFOS and PFOA (two individual compounds in the PFAS class) occurred between 2001 and 2015 (Interstate Technology Regulatory Council 2017). PFBS replaced PFOS in some applications and is currently used and manufactured in the U.S.

In 2016, the United States Environmental Protection Agency (USEPA) established a lifetime health advisory of 70 nanograms per liter (ng/L) in drinking water for PFOS or PFOA and for the sum of PFOS and PFOA when both are present (USEPA 2016). On 15 October 2019, the OSD provided guidance on the investigation of PFOS, PFOA, and PFBS at Department of Defense (DoD) restoration sites (OSD 2019). The DoD guidance provides risk screening levels for PFOS, PFOA, and PFBS in tap water and soil, calculated using the USEPA's Regional Screening Level (RSL) calculator for residential and industrial/commercial worker receptor scenarios. Following the issuance of the 2019 OSD memo, on 08 April 2021, USEPA published an updated toxicity assessment for PFBS (USEPA 2021). Based on the updated toxicity assessment for PFBS, the OSD issued a memorandum on 15 September 2021 to include updated PFBS risk screening levels (OSD 2021). On 18 May 2022, the USEPA published an update to the RSLs table. The May 2022 RSL table included six PFAS constituents: PFOS, PFOA, PFBS, PFNA, PFHxS, and HFPO-DA (USEPA 2022). On 06 July 2022, the OSD issued a memorandum to include

revised risk screening levels based on the May 2022 USEPA RSLs (OSD 2022). The July 2022 Memorandum: Investigating Per- and Polyfluoroalkyl Substances within the Department of Defense Cleanup Program is provided for reference as **Appendix A**. These screening criteria are discussed further in **Section 6.5**. The Army recognizes that PFAS is an emerging contaminant and decisions regarding the need for rescreening will be evaluated with evolving DoD policies and guidance at appropriate junctures.

1.2 PA/SI Objectives

This PA/SI was conducted consecutively because the results of the PA yielded AOPIs that necessitated continuing onto the SI phase in accordance with CERCLA. Consequently, this report provides the combined objectives of both PA and SI reports.

1.2.1 PA Objectives

During the PA, investigators collect readily available information and conduct site reconnaissance. This PA will evaluate and document areas where PFAS-containing materials were used, stored, and/or disposed, so the Army can distinguish between sites that pose little or no threat to human health and the environment and sites that require further investigation.

1.2.2 SI Objectives

An SI is conducted when the PA determines an AOPI exists based on probable use, storage, and/or disposal of PFAS-containing materials. The SI includes multi-media sampling at AOPIs to determine whether or not a release has occurred. The SI may conclude further investigation is warranted, a removal action is required to address immediate threats, or no further action is required.

Site-specific data quality objectives (DQOs) and the sampling design and rationale are summarized in **Sections 6.1** and **6.2**.

1.3 PA/SI Process Description

For the Former LHAAP, PA/SI development followed the process as described below. **Section 3** provides a summary of the PA activities completed, and **Section 6** provides a summary of the SI activities completed for the Former LHAAP. The PA and SI processes are documented in the PA/SI Quality Control Checklist included as **Appendix B**.

1.3.1 Pre-Site Visit

First, a site kickoff teleconference was held between applicable points of contact (POCs) for United States Army Environmental Command (USAEC), United States Army Corps of Engineers (USACE), Former LHAAP, and Arcadis U.S., Inc. (Arcadis). The kickoff call occurred on 26 January 2021, 6 weeks before the site visit to discuss the goals and scope of the PA, project scheduling, site access, timeline for the site visit, access to site-specific databases, and to request available records.

Records review was conducted before the site visit to obtain electronically available documents from the former installation and external sources for review. The purpose of the records research was to identify any area on the former installation that may have been a location where PFAS-containing materials were used, stored, and/or disposed, as well as to gather information on the physical setting and site history at the Former LHAAP.

A read-ahead package was prepared and submitted to the appropriate POCs 1 week before the site visit. The read-ahead package contains the following information:

- The Army Materiel Command operation order
- The Army PA Operations Security requirements package, which includes the antiterrorism/operations security review cover sheet
- The PFAS PA kickoff call minutes
- An information paper on the PA portion of the Army's PFAS PA/SI
- Contact information for key POCs
- A list of the data sources requested and reviewed
- A list of preliminary locations identified during the kickoff call and pre-site visit records review to be evaluated for use, storage, and/or disposal of PFAS-containing materials, where additional information on those areas will be collected through personnel interviews, additional document review, and site reconnaissance.
- A list of roles for the former installation POC to consider when recommending potential interviewees.

1.3.2 Preliminary Assessment Site Visit

The site visit was conducted on 08 March 2021. An in-brief meeting was held to provide former installation staff with the objectives of the site visit and team introductions. **Section 3** includes information regarding personnel interviewed.

Personnel interviews were conducted with individuals having significant historical knowledge at the Former LHAAP. The interviews focused on confirming information discussed in historical documents, collecting information that may not have been in historical documents, corroborating other interviewees' information.

Site reconnaissance included visual surveys that assessed the points of potential use, storage, and/or disposal of PFAS-containing materials, as well as potential secondary impacts, and the migration potential from each AOPI (e.g., stormwater drains, building drains and sumps, cracks in the floor/pavement). Physical attributes of the preliminary locations were documented, including local slope and ground and floor conditions (i.e., paved, unpaved, visual staining), surface water bodies and surface flow, potential receptors, and the distance to the former installation boundary. Access to existing groundwater monitoring wells, if present, were also noted during the site reconnaissance in case the monitoring wells could be proposed for SI sampling. Photo documentation of the preliminary locations was collected, and access limitations or advantages related to potential future sampling activities were noted.

An exit briefing was offered to former installation POCs at the conclusion of the site visit to raise any items identified during the site visit, discuss any follow-up items, and review the schedule for submitting deliverables. The exit briefing was conducted on 15 March 2021 with the former installation POC, USAEC, and USACE to discuss preliminary findings of the PA site visit.

1.3.3 Post-Site Visit

Information collected before, during, and after the site visit was reviewed and corroborated by cross-referencing records and reviewing interview details and observations noted during site visit reconnaissance. A site visit trip report was completed and provided to the former installation POC, applicable USAEC POCs, and USACE regional POCs following the site visit. The information collected during the pre-site visit and site visit activities was compiled to develop the site-specific PA portion of the PA/SI report (**Section 3**). Site data obtained during the PA were used to develop preliminary conceptual site models (CSMs) for each AOPI, which serve as the basis for developing the SI scope of work presented in a site-specific Quality Assurance Project Plan (QAPP) Addendum.

1.3.4 Site Inspection Planning and Field Work

The SI process was initiated at the former installation to evaluate PFOS, PFOA, PFBS, PFNA, and PFHxS presence or absence at each AOPI and determine whether further investigation is warranted. An SI kickoff and scoping teleconference was held between the Army PA team and the Former LHAAP to obtain concurrence on the SI sampling plan from USAEC, USACE, and the former installation.

The objectives of the SI kickoff/scoping teleconference were to:

- discuss the AOPIs selected for sampling and the proposed sampling plan for each AOPI
- gauge regulatory involvement preferences
- identify overlapping unexploded ordnance or cultural resource areas
- confirm the plan for investigation derived waste (IDW) handling and disposal
- identify specific site access requirements and potential schedule conflicts
- discuss general SI deliverable and field work schedule information and logistics.

A Programmatic Uniform Federal Policy-Quality Assurance Project Plan (PQAPP) was developed and finalized in October 2019 for the USAEC PFAS PA/SI (Arcadis 2019). The PQAPP details general planning processes for collecting data and describes the implementation of quality assurance (QA) and quality control (QC) activities for the SI portion for Army installations nationwide. Additionally, a site-specific QAPP Addendum was developed to define the DQOs, present the sampling design and rationale, and provide qualifications for project personnel. The SI field work was completed in accordance with the PQAPP (Arcadis 2019) and the approved site-specific QAPP Addendum. A Site Safety and Health Plan (SSHP) was also developed as an attachment to the QAPP Addendum to identify specific health and safety hazards that may be encountered at the former installation during sampling. The SSHP was designed to supplement the Accident Prevention Plan (Arcadis 2018), which was developed for Army installations nationwide. The QAPP Addendum and SSHP were submitted to the former installation and finalized before commencement of field work.

The DQOs, sampling design and rationale, and field methods employed for the SI are summarized from the QAPP Addendum developed for the Former LHAAP POC (Arcadis 2022) in **Sections 6.1** through **6.3**.

After finalization of the QAPP Addendum and SSHP, field planning and coordination with the former installation and subcontractors was completed. Once the schedule was determined, field teams mobilized to the former installation to complete the scope of work defined in the QAPP Addendum.

1.3.5 Data Analysis, Validation, and Reporting

Environmental samples collected during the SI were submitted to a laboratory which is DoD Environmental Laboratory Accreditation Program (ELAP)-accredited for PFOS, PFOA, PFBS, PFNA, and PFHxS analysis by liquid chromatography with tandem mass spectrometry and compliant with the DoD Quality Systems Manual (QSM) 5.3 (DoD and Department of Energy 2019). Laboratory analytical results were then validated and verified by a project chemist to assess the usability of the data collected. Validated analytical results were summarized in the context of OSD risk screening levels (defined in **Section 6.5**).

2 FORMER INSTALLATION OVERVIEW

The following subsections provide general information about the Former LHAAP, including the location and layout, the former installation mission(s) over time, a brief site history, current and projected land use, climate, topography, geology, hydrogeology, surface water hydrology, potable wells within a 5-mile radius of the former installation, and applicable ecological receptors.

2.1 Site Location

The Former LHAAP is in central-east Texas in the northeastern corner of Harrison County, between State Highway 43 at Karnack, Texas and the western shore of Caddo Lake. The eastern side of the former installation boundary is located approximately 3.5 miles from the Texas-Louisiana state border. The former installation's original footprint consisted of 8,416 acres. The area surrounding the Former LHAAP is primarily rural and consists of forest lands, the small towns of Karnack and Uncertain, Caddo Lake, and Caddo Lake State Park (USACE 2016; Plexus Scientific 2005). The location and layout of the former installation are depicted on **Figure 2-1** and **Figure 2-2**, respectively.

2.2 Mission and Brief Site History

Before the existence of the Former LHAAP, the site was primarily used for agricultural purposes, such as cotton farming, until 1941 when the government acquired the site and constructed a war materials production plant. The Former LHAAP consisted of three major production areas: the Trinitrotoluene (TNT) Production Area, which operated only during World War II; Plant Area 2, which operated from 1952 until 1956 and from 1965 to the 1990s to produce pyrotechnic items; and Plant Area 3, which operated from the 1950s through the 1980s to produce rocket motors and pyrotechnic items. Additionally, smaller facilities were present for component (Igniter Area) and pilot-scale (High Melting Explosive Area) manufacture. The main production areas were supported by buildings for plant maintenance, a water treatment plant, a sewage treatment plant (STP), warehouses, X-ray facilities, a chemistry laboratory, administration, waste disposal, testing grounds, and finished product storage (Plexus Scientific 2005).

2.3 Current and Projected Land Use

The Former LHAAP was classified by the U.S. Army Armament, Munitions, and Chemical Command as excess property in 1997 and the Army removed most of the buildings soon after. In 2000, through a memorandum of agreement, the Army authorized the United States Fish and Wildlife Service (USFWS) to establish an overlay refuge, the Caddo Lake National Wildlife Refuge (NWR), on the Former LHAAP. In October 2002, administrative control of the Former LHAAP was transferred from the Army Materiel Command to the Base Realignment and Closure (BRAC) Division to be managed as excess property. In April 2004, the Army and USFWS approved a Memorandum of Agreement that sets forth the LHAAP property transfer process (Army 2020). At the time of this report, approximately 7,200 acres out of the 8,416 acres have been transferred from the Army to the USFWS and the Caddo Lake NWR has been established within the perimeter fence of the former installation (USACE 2016). The Caddo Lake NWR has been opened to the public since September 2009. Although the Former LHAAP is closed, approximately 1,200 acres remain under Army control while being addressed through USACE and

USAEC contracts to undergo environmental restoration before they can be transferred. The Army provides oversight of facilities maintenance and operation, property accountability, and local interface with community leaders. USAEC provides oversight of on-site coordination of the environmental cleanup. Installation Services Environmental-BRAC Branch provides oversight of property conveyance efforts (Army 2020). **Figure 2-2** shows the portion of the Former LHAAP which was transferred to the USFWS and the portion that was retained by the Army. The status of land ownership at the time of this report for each AOPI included in this PA/SI is detailed in **Section 5.2**.

2.4 Climate

The Former LHAAP is located near Karnack, Texas, and this geographical location experiences mild winters and hot summers, with an average relative humidity of 73 percent (%). In winter, the average temperature is 50 degrees Fahrenheit (°F), and the average daily minimum temperature is 40°F. In summer, the average temperature is 85°F, and the average daily maximum temperature is 91°F. Precipitation is uniformly distributed throughout the year, although summer and fall are frequently drought seasons, and December to May are often the wettest months. The total average annual precipitation is 55.1 inches. Snowfalls are infrequent with an average seasonal snowfall of 0.71 inches (Weather U.S. 2022).

2.5 Topography

The Former LHAAP is characterized by mixed pine-hardwood forests covering gently rolling to hilly terrain that has an average slope of 3% to the northeast. Most of the terrain has slopes of 3% or less but slopes as steep as 12% are common in the western and northwestern portions of the former installation and along the Harrison Bayou floodplain. Land surrounding the facility is a mixture of forest and agricultural land. Ground surface elevations at the Former LHAAP vary from 170 to 335 feet above mean sea level. Surface water from the Former LHAAP drains to the northeast into Caddo Lake through Saunders Branch, Harrison Bayou, Central Creek, and Goose Prairie Creek (Plexus Scientific 2005). **Figure 2-3** shows the topography of the Former LHAAP.

2.6 Geology

The Former LHAAP area is on the northwest flank of the Sabine uplift, which is an area where the broad doming of the strata causes exposure of the Midway and Wilcox Groups in an area of about 80 miles in diameter. Outcropping strata at the Former LHAAP dip at a low angle (roughly 0.3 degrees) to the west towards the East Texas basin (Plexus Scientific 2005).

The age of the strata is Cretaceous and Tertiary. These strata include, in ascending order, the Navarro and Midway Groups, which are only found in the subsurface at the Former LHAAP, and the Wilcox Group and Reklaw Formation. The Wilcox Group and Reklaw Formation make up the outcrops and shallow subsurface throughout the Former LHAAP (**Figure 2-4**). The Navarro is Cretaceous in age, whereas the others are Tertiary. The Midway is Paleocene while the Wilcox and Reklaw are Eocene (Plexus Scientific 2005).

The Navarro Group consists of marine clay, marl, and some sandstone for a total thickness of about 300 feet. The Nacatoch sand is the marker bed or near the top of the group and it is laterally persistent in

northeast Harrison County. The overlying Midway Group is about 650 feet thick beneath the Former LHAAP and consists mainly of dark-gray marine clay and shale. Thick clay in the Midway and Navarro Groups is present only in the subsurface throughout the Former LHAAP and constitutes an aquiclude that underlies the main aquifer (Wilcox Group or Cypress Aquifer) (Plexus Scientific 2005).

The Wilcox Group consists of fine- to medium-grained sands interbedded with clay and seams of lignite (AECOM Technical Services 2016). The base of the Wilcox Group is defined as the base of the thick freshwater sands, which overlies the Midway clays and silts. Wilcox strata are a maximum of 350 feet thick in the northwest corner of the Former LHAAP, but anywhere else, the upper and/or middle parts are eroded. The unit thins progressively to the east and is roughly 135 feet thick along the east side of the Former LHAAP. The group consists of interbedded sands, silts, and clays that are variously light gray, red, brown, and tan. Sands were deposited mainly in alluvial channels that flowed to the south and south-southwest across eastern Harrison County (Plexus Scientific 2005).

The Reklaw Formation, consisting of sand and interbedded clay, overlies the Wilcox Group in the northwest corner of the Former LHAAP. The formation is approximately 100 feet thick, however, most of the formation has been eroded away leaving only the lower strata present. The Carrizo Sand separates the Wilcox Group from the Reklaw Formation. The youngest sedimentary units at the Former LHAAP are Quaternary-age alluvial and low-level trace deposits associated with present-day streams within the Former LHAAP. These deposits consist mainly of clay, silt, and sand deposited in channels and flood plains (Plexus Scientific 2005).

2.7 Hydrogeology

Groundwater and geologic data collected during previous investigations at the Former LHAAP indicate varying degrees of heterogeneity within the subsurface hydrogeology across the former installation. This is a result of the fluvial-deltaic depositional environment of the Wilcox Group sediments that underlie the Former LHAAP. The unconsolidated sediments of the Wilcox Group are composed primarily of elongated, interconnected, channel-fill sand deposits within alluvial belts interbedded with less permeable inter-channel sediments. These interbedded, less permeable deposits tend to form aquitards that limit the flow between saturated zones. The Former LHAAP can generally be characterized as consisting of three-water bearing zones within the Wilcox Group deposits: a shallow saturated zone, an intermediate saturated sand zone, and a deep saturated sand zone separated by semi-confining clay aquitard units. These three water-bearing units overlay the relatively impermeable Midway Group (Shaw Environmental, Inc. 2007).

Groundwater generally occurs under semi-confined to confined conditions within the Wilcox Group deposits that make up the primary aquifer material underlying the former installation. Perched and local confining conditions frequently occur within these Wilcox Group deposits due to the high clay content and highly variable stratigraphy. Due to this high degree of heterogeneity within the former installation, the level of interconnection between the shallow, intermediate, and deep water-bearing zones identified in the Wilcox Group deposits is highly variable. The base of the Wilcox water-bearing zones beneath the Former LHAAP is defined by the contact of the Wilcox Group with the underlying Midway Group. The Midway Group consists predominantly of very low permeability clay that yields little or no water. The Wilcox Group is considered the base of fresh water in the area (Shaw Environmental, Inc. 2007). At the

time of this report, groundwater originating on the former installation is not used as a drinking water source within the Former LHAAP (HDR, Inc. 2019).

The depth to groundwater in the region ranges generally from 1 to 70 feet below ground surface (bgs), with the typical depth being 12 to 16 feet (Shaw Environmental, Inc. 2007). Regionally, the groundwater of the water-bearing zones in the Wilcox Formation flows east-northeast toward Caddo Lake (**Figure 2-4**; Shaw Environmental, Inc. 2007). The groundwater flow direction of these water-bearing zones varies locally between site locations.

2.8 Surface Water Hydrology

Surface water at the Former LHAAP drains into Caddo Lake, which is a manmade lake that is part of the Big Cypress Bayou and was originally created due to a logjam in the bayou. Once the logjam was removed, the lake was re-established by the construction of Caddo Dam in 1914. Surface water at the Former LHAAP drains into Caddo Lake via four drainage systems: Saunders Branch, Harrison Bayou, Central Creek, and Goose Prairie Creek (**Figure 2-4**). Caddo Lake is a drinking water supply for multiple cities in Louisiana including Vivian, Oil City, Mooringsport, South Shore, Blanchard, Shreveport, and Bossier City (HDR, Inc. 2019). Historically, surface water was not used as a drinking water source at the Former LHAAP during active installation years.

Saunders Branch flows onto the Former LHAAP near the southeastern corner of the former installation and flows north into Caddo Lake. Approximately 2.25 square miles of the drainage area was part of the former installation. Saunders Branch captures approximately 10% of the Former LHAAP surface drainage transported to Caddo Lake. Harrison Bayou enters the Former LHAAP on the southern edge of the former installation and approximately 6.25 square miles of the drainage area was part of the former installation. The bayou captures approximately 30% of the Former LHAAP surface drainage and bisects the Former LHAAP in a northeasterly direction (Plexus Scientific 2005). Treated effluent from the Groundwater Treatment Plant (GWTP) is discharged into Harrison Bayou.

Central Creek enters the Former LHAAP on the western edge just south of Karnack and approximately 6 square miles of the drainage area was part of the former installation. Central Creek captures approximately 30% of the Former LHAAP surface drainage transported to Caddo Lake. The headwaters of Goose Prairie Creek are located near the northwestern corner of the Former LHAAP across the northern edge of the former installation and approximately 6.5 square miles of the drainage area was part of the former installation. Goose Prairie Creek captures approximately 30% of the Former LHAAP surface drainage transported to Caddo Lake. The flow for both drainage systems is intermittent (Plexus Scientific 2005).

2.9 Relevant Utility Infrastructure

The following subsections provide general information regarding the installation's stormwater and wastewater management systems, as well as information on how the utility infrastructures may influence the fate and transport of PFAS constituents at the Former LHAAP.

2.9.1 Stormwater Management System Description

Stormwater generated at the Former LHAAP consists of the runoff from road and sidewalk surfaces, together with the runoff from the roofs and paved parking lots. Stormwater discharges by sheet flow to surrounding vegetated surfaces and enters drainage ditches or infiltrates into surrounding soils. There is a network of approximately 100 miles of small roadside drainage ditches and channels, which flow into unnamed tributaries and empty into four drainage systems. The drainage systems eventually empty into Goose Prairie Bay, Caddo Lake, and estuaries that border the northeast corner of the facility (Plexus Scientific 2005).

2.9.2 Sewer System Description

The sanitary sewer system initially consisted of 7.4 miles of collection and outfall lines. Septic tanks were installed at the staff houses and the river pump station. By 1970, the system had been expanded to approximately 15.5 miles of underground collection mains, four lift stations, a treatment plant, and 15 septic tanks. The septic tanks were installed in the 1950s to serve various remote groups and buildings. The STP was constructed in 1942 and served the main production areas (**Figure 2-2**). Primary treatment was in an Imhoff Digester and secondary treatment in Dunbar Filters. Effluent from the STP was discharged to surface water. Five sewage lift stations were present throughout the plant. The septic tanks allowed for sedimentation and bacterial decomposition before discharge to the field lines. The field lines consisted of sand and gravel to disperse the wastewater and facilitate aerobic digestion of the waste. Beneath the field lines was a series of collection pipes, which collected the wastewater and transported it to the outfalls. Each outfall was equipped with a chlorinating device. In 1991, an STP rehabilitation was completed, and previously unconnected areas were tied into the STP (Plexus Scientific 2005).

2.10 Potable Water Supply and Drinking Water Receptors

At the time of this report, there are no potable water supply wells located within the boundary of the Former LHAAP. Three water supply wells are located within the boundary of the Former LHAAP but do not supply potable water . One well is located at the Old and New Fire Stations (Buildings 709 and 710) and provides water for non-potable use at the GWTP. The second well is located approximately 0.35 mile southwest of the Old and New Fire Stations (Buildings 709 and 710). The third well is located north of the USFWS administration building for the Caddo Lake NWR, near the main entrance to the Former LHAAP. The Caddo Lake NWR obtains its water from an off-site public water supply well: Caddo Lake Water Supply Corporation Well 3 (**Figure 2-5**; HDR, Inc. 2019).

Groundwater in the drinking water aquifer (250 to 430 feet bgs) upgradient and off-site of the Former LHAAP is within the Wilcox Group and used as a drinking water source at the time of this report. The drinking water aquifer should not be confused with the deep zone groundwater, which extends only to a depth of approximately 151 feet bgs. The deep zone groundwater and the drinking water aquifer are distinct from each other, separated by a clay confining layer that is approximately 80 to 100 feet thick (Bhate Environmental Associates, Inc. 2018b). There are five active public supply wells located off-site, near the Former LHAAP, that are completed in the drinking water aquifer (**Figure 2-5**). One well is located in and owned by Caddo Lake State Park. The well is completed to a depth of 315 feet bgs and has been in use since 1935. A second well owned by the Karnack Water Supply Corporation services the town of

Karnack and is located approximately 0.3 mile northwest of town. This well is completed to approximately 430 feet bgs and has been in use since 1942. The other three wells are owned by The Caddo Lake Water Supply Corporation, located north and northwest of the Former LHAAP. These wells are identified as Caddo Lake Water Supply Corporation Wells 1, 2, and 3. All five of these potable supply wells are hydraulically upgradient of the Former LHAAP. Water extraction from these wells is not anticipated to impact groundwater flow at any of the AOPIs (HDR, Inc. 2019).

An Environmental Data Resources, Inc. (EDR) report includes search results from a variety of environmental, state, city, and other publicly available databases for a referenced property. An EDR report was generated for the Former LHAAP, which along with state and county geographic information system provided by the former installation identified several off-post public and private wells within 5 miles of the former installation boundary (**Figure 2-5**). The EDR report providing well search results is provided as **Appendix C**.

There are approximately five public water systems located on the eastern portion of Caddo Lake that withdraw surface water. However, these water systems are located more than 5 miles away from the former installation boundary. These systems are: Blanchard Water System (Public Water System [PWS] ID: LA1017006), Caddo Waterworks – Oil City Water System (PWS ID: LA1017026), East Cove Utilities Water System (PWS ID: LA1017050), East Mooringsport Water System (PWS ID: LA1017010), Town of Greenwood (PWS ID: LA1017014), and Mooringsport Water System (PWS ID: LA1017023).

2.11 Ecological Receptors

The PA team collected information regarding ecological receptors that was available in the former installation documents. The following information is provided for future reference should the Army decide to evaluate exposure pathways relevant to the ecological receptors.

The entire Former LHAAP is part of the Cypress Bayou Basin occurring in the Piney Woods ecological region of Texas. The gentle topography and mild climate support an abundant and diverse plant community with a diversity of habitats. This diversity suggests the potential for a large variety of animal species to inhabit the Former LHAAP. As the buildings have been demolished, more and more of the facility has been left to nature with pine trees growing among concrete remnants. Common mammals found at the Former LHAAP include white-tailed deer, red and gray foxes, rabbits, squirrels, opossums, skunks, armadillos, beavers, and raccoons. In addition to mammals, a total of 334 bird species have been documented as inhabiting Caddo Lake's drainage system and potentially inhabiting the Former LHAAP sometime during the year. A reported 53 different reptile species inhabit the Cypress Bayou Basin. Up to 22 federal and/or state endangered or threatened species potentially inhabit the Former LHAAP although only nine of the species have been confirmed (Jacobs Engineering Group, Inc. 2002).

2.12 Previous PFAS Investigations

Previous (i.e., pre-PA) PFAS investigations relative to the Former LHAAP, including both those conducted and not conducted by the PA/SI team, are summarized to provide full context of available PFAS data for the Former LHAAP. However, only data collected by the PA/SI team will be used to make recommendations for further investigation.

In 2021, an existing contract order was used to evaluate PFAS in groundwater samples collected from the influent and effluent ports of the GWTP, which has historically received wastewater from the Burning Ground No. 3 and Unlined Evaporation Pond AOPIs. The GWTP began operating in the 1990s and was still active at the time of this report. PFAS constituents analyzed included PFOS, PFOA, PFBS, PFNA, and PFHxS. Three samples were collected, and the results are as follows: PFOS, PFOA, PFBS, and PFHxS were detected at concentrations below their respective OSD risk screening levels at the time of the sampling event. PFNA was not detected above the laboratory limit of quantitation (LOQ) in any of the samples (MMG-TLI Joint Venture 2021). When rescreening the historical data against the revised OSD risk screening levels published on 06 July 2022, PFOS and PFOA were detected above the OSD risk screening level for tap water (4 ng/L and 6 ng/L, respectively), in both parent and field duplicate samples with the highest concentrations being at 27.0 ng/L and 39.3 ng/L, respectively (OSD 2022). The GWTP is shown on **Figure 2-2** and the historical data are presented in **Table 2-1**.

3 SUMMARY OF PA ACTIVITIES

To document areas where any potential current and/or historical PFAS-containing materials were used, stored and/or disposed at the Former LHAAP, data was collected from three principal sources of information and are described in the subsections below:

1. Records review
2. Personnel interviews
3. Site reconnaissance

Preliminary locations of potential use, storage, and/or disposal of PFAS-containing materials were then evaluated in the PA (during records review, personnel interviews, and/or site reconnaissance) and were categorized as AOPIs or as areas not retained for further investigation at this time based on a combination of information collected (e.g., records reviewed, personnel interviews, internet searches). A summary of the observations made, and data collected through records reviews (**Appendix D**), former installation personnel interviews (**Appendix E**), site reconnaissance photos (**Appendix F**) and site reconnaissance logs (**Appendix G**) during the PA process for the Former LHAAP is presented in **Section 4**. Further discussion regarding rationale for not retaining areas for further investigation is presented in **Section 5.1**, and further discussion regarding categorizing areas as AOPIs is presented in **Section 5.2**.

3.1 Records Review

The records reviewed for this PA included, but were not limited to, various Installation Restoration Program (IRP) administrative record documents, compliance documents, the Former LHAAP fire department documents, the Former LHAAP directorate of public works documents, and geographic information system files. Internet searches were also conducted to identify publicly available and other relevant information. A list of the specific documents reviewed for the Former LHAAP is provided in **Appendix D**.

3.2 Personnel Interviews

Interviews were conducted during the site visit. The list of roles for the former installation personnel interviewed during the PA process for the Former LHAAP is presented below (affiliation is with the Former LHAAP unless otherwise noted).

- GWTP worker and production area/vehicle maintenance area personnel
- Fire Department and production area personnel
- Production area personnel
- USFWS Contaminant Biologist

The compiled interview logs are provided in **Appendix E**.

3.3 Site Reconnaissance

Site reconnaissance and visual surveys were conducted at the preliminary locations identified at the Former LHAAP during the records review process, the former installation in-brief meeting, and/or during the former installation personnel interviews. A photo log from the site reconnaissance is provided in **Appendix F**; photos were used to assist in verification of qualitative data collected in the field. The site reconnaissance logs are provided in **Appendix G**.

Access to existing groundwater monitoring wells, if present, were also noted during the site reconnaissance in case the monitoring wells could be proposed for SI sampling.

4 POTENTIAL PFAS USE, STORAGE, AND/OR DISPOSAL AREAS

The Former LHAAP was evaluated for all potential current and historical use, storage, and/or disposal of PFAS-containing materials. As such, this section is organized to summarize the aqueous film-forming foam (AFFF)-related uses first, and all remaining potential PFAS-containing materials in the subsequent section.

4.1 AFFF Use, Storage, and Disposal Areas

AFFF Storage Areas

AFFF was developed in the mid-1960s in response to a need for firefighting foams better suited to extinguish Class B, fuel-based fires. AFFF formulations consist of water, an organic solvent, up to 5% hydrocarbon surfactants, and 1 to 3% PFAS (Interstate Technology Regulatory Council 2020). AFFF concentrate is designed to be diluted with water to become a 1, 3, or 6% foam. AFFF releases at DoD facilities may have occurred during firefighter training, emergency response actions, equipment testing, or accidental releases. The military still primarily uses AFFF for Class B fires; however, the current formulations of AFFF contain significantly lower amounts of PFOS, PFOA, and their precursors, and significant operational changes have been implemented to restrict uncontrolled releases and non-essential use of PFAS-containing foams. Army installations may still house AFFF, commonly stored in closed containers (e.g., 55-gallon drums, 5-gallon buckets), within designated storage buildings or at firehouses.

AFFF used by fire department personnel was stored at the Old Fire Station (Building 709) and the New Fire Station (Building 710). In a 2005 Environmental Site Assessment (ESA), a 1945 inventory was referenced which stated that a Foamite Storage Shed (709-C) existed in the TNT Production Area; however, this building was not listed in any available documents going back to 1983 (Plexus Scientific 2005). Foamite is a firefighting foam that predates the use of AFFF. The content of Foamite is not known; however, it is not anticipated to contain PFAS because it predates the use of AFFF.

Fire Stations

There were two fire stations at the Former LHAAP: the Old Fire Station (Building 709) and the New Fire Station (Building 710). The Old Fire Station (Building 709) was constructed in the 1940s and was host to the Thiokol Chemical Fire Department for the majority of the former installation's activity until 1997. The New Fire Station (Building 710) was host to the fire department from 1990 to 1997, before the former installation was found to be excess. Nozzle testing occurred at both buildings.

Fire Truck Maintenance Area

Fire vehicle maintenance occurred at the Building 744-A Vehicle Wash Rack and Oil/Water Separator Building (LHAAP-056) from 1957 to 1997. AFFF was stored in buckets on fire trucks that underwent maintenance at this location. Vehicle maintenance and fueling occurred at the Vehicle Maintenance Shop and Service Station (Buildings 714 and 744) from 1942 to 1997. Effluent from vehicle washdowns went through an oil trap where oil was separated from water. The separated oil was taken by a vacuum truck to Burning Ground No. 3.

Fire Response Activities

Five documented fire response activities occurred at the former LHAAP. A fire occurred in March 1964 at Plant Area 2 – Building B-12 during processing of signal flare illuminant in a granulator. A fire occurred in October 1966 at Plant Area 2 – Building 403 in the pyrotechnic production operations area. A fire also occurred in 1993 at Plant Area 3 – Building 54-H where 20 gallons of hexane were spilled as a result of activation of the deluge fire suppression system. It is undetermined whether AFFF was used in any of these responses; however, due to the hazards presented in a munitions-related fire, it is unlikely that firefighters approached these fires and more likely that the fires were left to burn themselves out. One interviewee described the use of foam on a gas line fire near an inspector building between Plant Area 2 and Plant Area 3. However, the exact location of this leak, quantity of AFFF used, and date of application are unknown. Another fire occurred at an unknown date in the Inspection Area when a contractor hit a gas line. It was reported that water and AFFF were used in response. The fire occurred in the Inspection Area between Plant Area 2 and Plant Area 3; however, the exact location of the incident is unknown.

Fire Training Activities

During personnel interviews, non-fire department personnel suggested that fire training activities may have been conducted at the Ground Signal Test Area (LHAAP-054) while the Former LHAAP Fire Department staff were monitoring testing to ensure any resulting fires were controlled. However, historical imagery does not indicate any fire training equipment existing in the area and retired fire department personnel did not recall these activities taking place at the Ground Signal Test Area (LHAAP-054). Nozzle testing also occurred at the Old Fire Station (Building 709) and the New Fire Station (Building 710), as mentioned above.

Fuel Spill Response Sites

An oil tank spill occurred at Building 813 (LHAAP-071) in December 1978 that was then contained. Interviewees did not recall whether AFFF was used during this response. Records available for review do not describe the materials used during the response.

4.2 Other PFAS Use, Storage, and/or Disposal Areas

Following document research, personnel interviews, and site reconnaissance at the Former LHAAP operation/production areas, water/wastewater treatment plants, burn areas, landfills and waste disposal areas, pesticide/herbicide storage areas, and maintenance areas were identified as preliminary locations for use, storage, and/or disposal of PFAS-containing materials. A summary of information gathered in the PA for each of these preliminary locations is described below. Specific discussion regarding areas not retained for further investigation is presented in **Section 5.1** and specific discussion regarding areas retained as AOPIs is presented in **Section 5.2**.

Operational / Production Areas

Plant Area 2 (LHAAP-046) and Plant Area 3 (LHAAP-047) were in operation from the 1950s to 1997 and had buildings that were used for a multitude of activities involving the aqueous dispersion of Teflon®, including illuminant mixing, consolidation, curing, and drying, pyrotechnic mix pressing, pellet and case assembly, dipping, pellet coating, and drying. The Igniter Area (Y-Area; LHAAP-048) was in operation from 1955 to 1990 and was used for the production of igniters, illuminating devices, and smoke signal

flares. The Laundry/Dry Cleaning Facility (Building 723) was in operation from 1945 to 1997 where standard laundry services along with flame-proofing treatments occurred.

In the 1970s, the Former LHAAP became the leading producer of infrared (IR) flares for the Army and U.S. Airforce. At the time of closure, the Former LHAAP manufactured at least 20 different types of pyrotechnics, explosives, and propellant mixes. These were used in four general groups of ammunitions including illuminating mortars, signals and simulations, IR flares, and base burners for the 155 Howitzer. According to the ESA, all of these mixes were similarly prepared and mixed by adding an oxidizer, fuel, binder, and sometimes other chemicals. Some pyrotechnic, explosive, and propellant mixes required the preparation of binders, which involved mixing resins, epoxies, dissolved rubber, and other compounds with solvents. After pressing, some IR flare pellets underwent dip coating.

Fluoropolymers can be found in munitions as oxidizers, binders, and lubricants. Aqueous dispersion of fluoropolymers like Teflon® is often conducted using PFOA, PFNA, and other PFAS. Records explicitly describing the types of oxidizers, binders, and lubricants used in munitions are not common; instead, records generally refer to rubbers, polymers, binders, oxidizers, and solvents. However, it is known that fluoropolymers can be applied to munitions in these aqueous dispersions, resulting in the presence of related PFAS in wastewater and final products. Fluoropolymers typically have higher carbon/low fluorine content combined with higher decomposition temperatures. Polytetrafluoroethylene (PTFE, also known as Teflon®) is commonly used as an oxidizer in pyrotechnic formulations, as well as Viton® (vinylidene fluoride, hexafluoropropylene), tetrafluoroethylene, and polychlorotrifluoroethylene (PCTFE, also known as KEL-F®). PTFE and PCTFE are known to have been used in pyrotechnic compositions as early as 1963, as oxidizing agents in incendiaries as early as 1967 and PTFE was used as a binder before 1966 (Headquarters, Department of the Army [HQDA] 1963, HQDA 1966, HQDA 1967).

Locations where oxidizers and binders were prepared and mixed were of particular interest in this investigation because of the potential for aqueous dispersions of fluoropolymers (and as a result, PFOA and PFNA) to be present. Teflon® is named in historical records as one type of oxidizer used at LHAAP. LHAAP records indicate fluoroelastomer solutions were anticipated to be present in production area sumps, as well as in IR flares. Aqueous fluoroelastomer copolymer solutions were identified as being used in Buildings 212-37 and 212-35 for the production of the ALA-17B IR flare. Building 11 at Plant Area 2 hosted the production of MJU-7A/B flares, which were described to include a Viton® solution. Flares that contained magnesium and Teflon® were mixed together with unnamed binders. Records from the 2005 ESA also state that at Plant Area 2, mixers were used for the production of a Teflon® hot catalyst-acetone paste mix, which may have been a form of aqueous fluoropolymer dispersion.

PTFE is also known to be used as a lubricant to coat cannisters to increase field longevity and reduce friction. Aluminum pistons and tubes in propellants were known to have been coated with Teflon® to reduce friction between sliding members of propellant-actuated devices (Departments of the Army and Airforce 1965). The U.S. military specified a lubricant for use with ammunition that had a 20% fluorocarbon telomer dispersion in 1,1,2-trichloro-1,2,2-trilfluoroethane. This specification existed from 1965 to 1998 (Army 1965). “Teflon® coating” is another term that indicates a process involving the aqueous dispersion of fluoropolymers. Records state that Teflon® coating was performed in various locations within Plant Area 2, as well as Plant Area 3. Metal parts were described as being coated with Teflon® in Building 32-H, which is within Plant Area 3. They were then cured in Plant Area 3. Teflon® molds were also coated in spray booths that were equipped with a curing oven.

Buildings in Plant Area 2 and Plant Area 3 were utilized for a multitude of activities involving the aqueous dispersion of Teflon®, including illuminant mixing, consolidation, curing, drying, pyrotechnic mix pressing, pellet and case assembly, dipping, pellet coating, drying, coating, propellant mixing, and cleaning casting equipment. Industrial wastewater was generated at LHAAP from floor washing and flushing of manufacturing buildings. This water was directed through floor drains to sumps that were pumped out. A 1965 article described in the 2005 ESA stated that if contamination was determined to have been negligible, sumps were allowed to overflow and drain by their natural course into drainage ditches. Sump waste produced at the Plant Areas was pumped out into 5,000-gallon vacuum tank trucks and hauled to several locations, including the Pilot Wastewater Treatment Plant (LHAAP-004), Former Waste Disposal Facility (LHAAP-050), Burning Ground No. 3 (LHAAP-018), and Unlined Evaporation Pond (LHAAP-024). During sump closure, the sump contents and surrounding soil were taken to Landfill 12 (LHAAP-012) and Landfill 16 (LHAAP-016).

Waste Disposal

From 1955 to 1988, some sump waste from Plant Area 2 and Plant Area 3 was taken via sump truck to a 47,000-gallon aboveground storage tank at the Former Waste Disposal Facility (LHAAP-050). After settling, liquid was discharged into Goose Prairie Creek. In cases where undefined amounts of contaminants or unknown substances were present in the sumps, contents were hauled to Burning Ground No. 3 (LHAAP-018). Historical documents do not describe where solids from the aboveground storage tank were disposed.

Burning Ground No. 3 (LHAAP-018) was in operation from 1955 to 1997 and was used for the treatment, storage, and disposal of solid and liquid explosives, pyrotechnics, and combustible solvent waste by open burning, open detonation, and burial. The Unlined Evaporation Pond (LHAAP-024), also known as the Rocket Motor Washout Lagoon, was constructed at Burning Ground No. 3 in 1963 as a holding pond to store the flammable, volatile, and pyrotechnic wastes resulting from the washout of rocket motor casings. From 1963 until 1984, some production wastes from Plant Area 2 and some sump wastes from Plant Areas 2 and 3 were brought to the Unlined Evaporation Pond (LHAAP-024). Sump waste from the Former Waste Disposal Facility was hauled and placed into Burning Ground No. 3 and/or the Unlined Evaporation Pond (LHAAP-018/024). In 1973, the Unlined Evaporation Pond (LHAAP-024) also began receiving wash water containing solvent residues and solids collected from operations involving pyrotechnic material preparation. Beginning in 1984, the water from this evaporation pond was removed and disposed of offsite using deep well injection. Contaminated sludges and soil were removed and disposed of off-site at a hazardous waste landfill. Approximately 8,116 cubic yards of sludge were removed and sent to an off-site permitted landfill owned and operated by Chemical Waste Management, in Carlyss, Louisiana. In 1997, 30,000 cubic yards of soil were excavated and thermally treated. Some of the thermally treated soil was placed in Landfill 12 and Landfill 16. The excavated area of the evaporation pond was backfilled with 6 feet of clean common fill. Then, an impervious 4-foot thick layer (i.e., cap) was placed on top of the fill, as well as a 1-foot thick layer of filter and then a 1-foot layer of topsoil and turf was placed on top.

A 5,000-foot long French drain interception-collection trench was installed around the tip of the filter cap to control the migration of contaminated groundwater at the Burning Ground No. 3 (LHAAP-018) and the Unlined Evaporation Pond (LHAAP-024). Groundwater from Burning Ground No. 3 and the Unlined Evaporation Pond (LHAAP-018/024) is routed to the GWTP at the time of this report. The extracted

groundwater is discharged into Harrison Bayou after treatment. The GWTP effluent is discharged to the lined Intermediate-Range Nuclear Force Holding Pond in the Static Test Area for temporary storage when flow in Harrison Bayou is not sufficient. Following the detection of perchlorate in 2001, a fluidized bed reactor treatment system was installed (Plexus Scientific 2005).

In 1984, the Pilot Wastewater Treatment Plant (LHAAP-004) replaced the Unlined Evaporation Ponds (LHAAP-024) and was in operation until 1997. At the Pilot Wastewater Treatment Plant, sump waste from throughout LHAAP potentially containing PFAS constituents from throughout the former installation was separated into liquids and solids via settling and evaporative reduction. From 1984 to 1986, solid waste was drummed, stored (likely at Building 31-W), and then disposed of offsite. Starting in 1986, solid waste from the Pilot Wastewater Treatment Plant was transported to LHAAP-018 for thermal destruction.

Building 31-W (LHAAP-009) was used for liquid hazardous waste storage from the 1950s until 1995. The building was originally an enclosed 100 by 50 foot warehouse area, which was constructed in the late 1950s and underwent an addition of an 80 by 50 foot area in 1986. It had a structural steel roof and eight bays. Wastes stored here initially included waste oils, chromium contaminated wastes, silver wastes, brine sludge, diesel, resins, adhesives, and more. Waste from oil sumps was also drummed and brought here for storage. Due to the large volume of containers received and processed through the Building 31-W storage area, spill events were described as being common within containment areas. Drums that began leaking were routinely overpacked or the contents were transferred to other containers. Spills were promptly cleaned up. Starting in the late 1980s, the building was used to store hazardous waste from manufacturing activities (Plant Area 2 and Plant Area 3). Building 31-W was known to have been used to store fluoroelastomer waste from flares.

Building 811-1 was constructed in 1944 and used for the storage of expired munitions. Sludge from explosive waste was stored here prior to off-site disposal. Site closure activities, including decontamination and sampling, were conducted under an approved closure plan in 1998 and 1999.

Landfill 12 (LHAAP-012) was used for disposal of non-hazardous waste. It was consistently used beginning in 1978. Drummed waste and reject chemicals that were produced in the Production Areas were disposed of at Landfill 16 (LHAAP-016) (Texas Water Commission 1988). Rocket motor casings were known to have been buried on the western side of Landfill 16 in the mid to late 1950s. A portion of the 30,000 cubic yards of soil excavated from the Unlined Evaporation Pond was taken to Landfill 12 and Landfill 16 after being thermally treated in 1997. When the sumps from Plant Area 2 and Plant Area 3 were removed and closed, they were disposed of in Landfill 12 and Landfill 16. The landfills were closed, and their caps were completed in 1998. Groundwater extracted from the Landfill 16 containment system was historically routed to the GWTP for treatment; this ceased in September 2019.

Waste at the Former LHAAP was also treated and/or disposed of at the Explosive Waste Pads (LHAAP-036), the Flashing Area/Burning Ground No. 2 (LHAAP-017), and Former Burial Pits (LHAAP-063).

Pesticide/Herbicide Storage Areas

Pesticides were stored at the Pesticide Storage Buildings 411 and 714 (LHAAP-060) from 1942 to 1997 and at the Insecticide Storage Building 725 (LHAAP-059) from 1984 to 1997. During a telephonic interview with the Installation Management Command Pest Management Consultant, it was noted that products containing Sulfluramid (i.e., associated with insecticides) may have contained PFAS and were phased out in 1996. During the PA records review, the Installation Management Command Pest

Management Consultant provided records of potentially PFAS-containing pesticides and insecticides used at and/or stored at Army installations and did not identify the Former LHAAP as an installation having used or stored PFAS-containing pesticides/insecticides. Additionally, the PA team reviewed available pesticide use inventory documentation provided by the installation and did not identify PFAS-containing pesticides use, storage, or disposal.

Maintenance Areas

Building 717 housed the Maintenance Area (LHAAP-35A [58]) where metalworking was stated to have occurred from 1942 to 1997. This metalworking was unknown to be related to metal plating.

4.3 Readily Identifiable Off-Post PFAS Sources

An exhaustive search to identify all potential off-post PFAS sources (i.e., not related to operations at the Former LHAAP) is not part of the PA/SI. However, potential off-post PFAS sources within a 5-mile radius of the installation that were identified during the records search and site visit are described below.

PFAS is known to be used in specific industries. The USEPA has identified sectors under the North American Industry Classification System and Standard Industrial Classification system that are associated with PFAS in their operations. There are no facilities within 5 miles of the Former LHAAP that are categorized under these industrial classification sectors.

There are three fire stations located within 5 miles of the Former LHAAP. None of these fire departments were confirmed to have historically stored or used AFFF. The Karnack Volunteer Fire Department, Uncertain Volunteer Fire Department, and Gray Volunteer Fire Departments are located 400 feet west, 0.75 mile north, and 3.4 miles northeast of the Former LHAAP boundary, respectively.

5 SUMMARY AND DISCUSSION OF PA RESULTS

The preliminary locations evaluated for potential use, storage, and/or disposal of PFAS-containing materials at the Former LHAAP, were further refined during the PA process and identified either as an area not retained for further investigation or as an AOPI. In accordance with the established process for the PA/SI, 12 areas have been identified as AOPIs. The process used for refining these areas is presented on **Figure 5-1**, below.

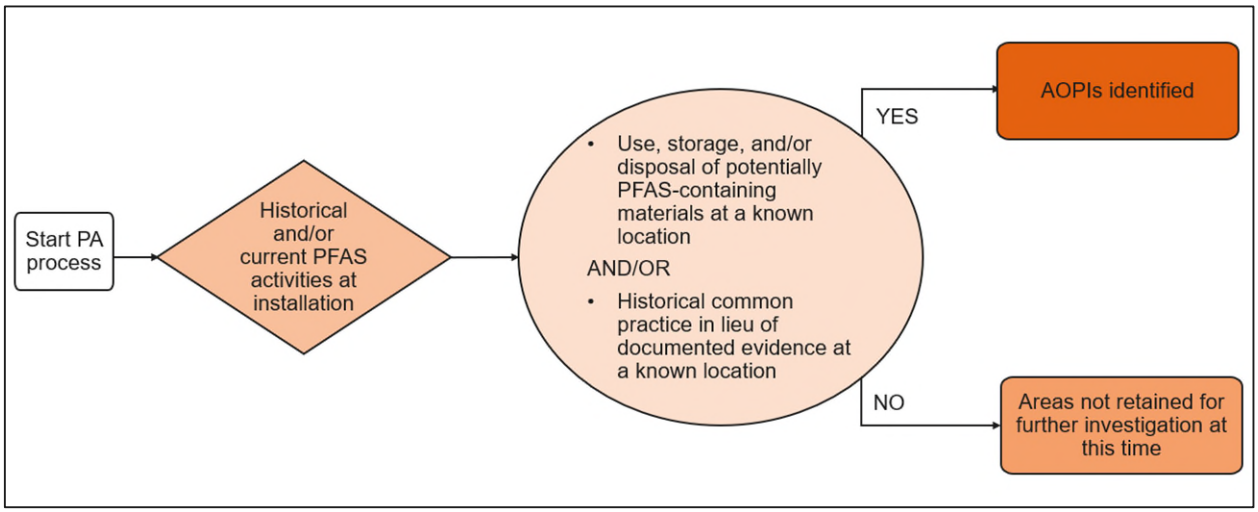

Figure 5-1: AOPI Decision Flowchart

The areas not retained for further investigation are presented in **Section 5.1**. The areas retained as AOPIs are presented in **Section 5.2**.

Data limitations for this PA/SI at the Former LHAAP are presented in **Section 8**.

5.1 Areas Not Retained for Further Investigation

Through the evaluation of information obtained during records review, personnel interviews, and/or site reconnaissance, the areas described below were categorized as areas not retained for further investigation at this time.

A brief site history and rationale for areas not retained for further investigation are presented in **Table 5-1**, below.

Table 5-1. Former Installation Areas Not Retained for Further Investigation

Area Description	Date(s) of Relevant Release and/or Operation	Relevant Site History	Rationale
Oil Spill at Building 813 (LHAAP-071)	1978	An oil tank spill occurred at Building 813 in December 1978. The spill was contained.	No specific evidence was identified confirming AFFF was used in response to this spill.
Foamite Storage Shed (709-C)	1945 to 1970s	In a 2005 ESA, a 1954 and 1945 inventory was referenced which stated that a Foamite Storage Shed existed in the TNT Production Area. This building was not referenced on any available documents or in building references going back to 1983. Foamite is a firefighting foam that predates the use of AFFF. As production activities in the TNT Production Area ceased in the 1970s, it is unlikely that AFFF was ever stored in this Foamite storage shed.	No evidence of PFAS-containing materials used, stored, and/or disposed of at this location.
Ground Signal Test Area (LHAAP-054)	1950s to 1997	Non-fire department personnel suggested that fire training may have been conducted in this area while the Fire Department staff were monitoring testing to ensure any resulting fires were controlled. Historical imagery does not indicate any fire training equipment existed in the area. Retired fire department personnel did not recall this activity having taken place here.	No evidence of PFAS-containing materials used, stored, and/or disposed of at this location.
Vehicle Maintenance Shop and Service Station (Building 714; 744)	1942 to 1997	A single-story wood-frame building where vehicle maintenance activities were conducted. Vehicle fueling was also known to occur here.	No evidence of PFAS-containing materials used, stored, and/or disposed of at this location.
Maintenance Area Building 717 (LHAAP-35A [58])	1942 to 1997	“Metalworking” was stated as having occurred at Building 717 (the Maintenance Complex). This metalworking was unknown to be related to metal plating.	No evidence of PFAS-containing materials used, stored, and/or disposed of at this location.
Pesticide Storage Buildings 411 & 714 (LHAAP-060)	1942 to 1997	This site consists of two buildings formerly used for storage of pesticides and herbicides. Pesticides were originally stored in Building 714 until 1970 and subsequently moved to Building 411.	No evidence of PFAS-containing materials used, stored, and/or disposed of at this location.

Area Description	Date(s) of Relevant Release and/or Operation	Relevant Site History	Rationale
		The pesticide chemical list for the Former LHAAP does not include any PFAS-containing chemicals (e.g., potassium N-ethyl-N- [(heptadecafluorooctyl)sulfonyl] glycinate, 3-(((heptadecafluorooctyl) sulfonyl)amino)-N,N,N- trimethyl-1-propanaminium iodide, 1-octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, lithium salt, perfluorooctane sulfonate, sulfluramid, chlorpyrifos, or lithium (perfluorooctane)sulfonate).	
Laundry/Dry Cleaning Facility (723)	1945 to 1997	Laundry and dry-cleaning activities occurred here. Laundry was treated with flame-proofing. Flame-proofing in dry cleaning facilities is not associated with PFAS-containing materials. Waterproofing was not conducted at this facility.	No evidence of PFAS-containing materials used, stored, and/or disposed of at this location.
Insecticide Storage Building (725) (LHAAP-059)	1984 to 1997	Building 725 was constructed to support maintenance activities at the plant as a pesticide storage building. The pesticide chemical list for the Former LHAAP does not include any PFAS-containing chemicals (e.g. potassium N-ethyl-N-[(heptadecafluorooctyl)sulfonyl] glycinate, 3-(((heptadecafluorooctyl) sulfonyl)amino)-N,N,N- trimethyl-1-propanaminium iodide, 1-octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-, lithium salt, perfluorooctane sulfonate, sulfluramid, chlorpyrifos, or lithium (perfluorooctane)sulfonate).	No evidence of PFAS-containing materials used, stored, and/or disposed of at this location.
Flashing Area/Burning Ground No. 2 (LHAAP-017)	1959 to 1980	Used for burning bulk TNT, photoflash powder, and reject material from Universal Match Corporation's production processes. Interviews and additional document research did not provide evidence that activities involving aqueous dispersions of fluoropolymers were conducted here.	No evidence of PFAS-containing materials used, stored, and/or disposed of at this location.

Area Description	Date(s) of Relevant Release and/or Operation	Relevant Site History	Rationale
Explosive Waste Pads (LHAAP-036)	1985 to 1990	There were 20 waste pads across the installation. These pads have a galvanized metal roof set over concrete 4 by 8-foot pads with a 6-inch curb drained by a concrete trough into a sump. Explosive waste was kept here and desensitized. Pails were collected for disposal at LHAAP-018/024. Interviews and additional document research did not provide evidence that activities involving aqueous dispersions of fluoropolymers were conducted here.	No evidence of PFAS-containing materials used, stored, and/or disposed of at this location
Former Burial Pits (LHAAP-063)	1950s	These pits are located along Bobby Jones Road, east of the explosive burning ground. These pits were used in the late 1950s for the detonation of Plant Area 3 reject materials. Activity dates predate those of interest at this installation when Thiokol began production.	No evidence of PFAS-containing materials used, stored, and/or disposed of at this location.
Plant Area 2 – Building 403 Fire	1966	Constructed in 1945 as a pyrotechnic production operations building. A fire occurred here in October 1966, which predates common AFFF use by the DoD.	No evidence of PFAS-containing materials used, stored, and/or disposed of at this location
Plant Area 2 – Building B-12 Fire	1964	Constructed in 1953 as a blender building. In March 1964, a fire occurred during processing of signal flare illuminant in a granulator. The fire predates common AFFF use by the DoD.	No evidence of PFAS-containing materials used, stored, and/or disposed of at this location.
Plant Area 3 – Building 54-H Fire	1993	Constructed as a motor casting building. In 1993, 20 gallons of hexane were spilled as a result of activation of the deluge fire suppression system. Hexane, not consumed in the fire, was collected in the wastewater collection system. Deluge system was not confirmed to contain AFFF. The only known deluge system on the installation used only water.	No evidence of PFAS-containing materials used, stored, and/or disposed of at this location.

Area Description	Date(s) of Relevant Release and/or Operation	Relevant Site History	Rationale
Inspection Area Fire	Unknown	Contractor in a building hit a gas line. Water and AFFF were used in response to this fire. Pipe fitter came in to seal the pipe. This happened near an inspector building between Plant Area 2 and 3. Exact location of incident is unknown.	No specific location of AFFF use was identified.

5.2 AOPIs

Overviews for each AOPI identified during the PA process are presented in this section. Eleven of the twelve AOPIs overlap with Former LHAAP IRP sites (**Figure 5-2**). The AOPI, overlapping IRP site identifier, and current site status are discussed within each AOPI subsection presented below. At the time of this PA, none of the Former LHAAP IRP sites have historically been investigated or are currently being investigated for the possible presence of PFAS. However, as described in **Section 2.12**, the GWTP historically received wastewater from two of the Former LHAAP IRP sites. The influent and effluent at the GWTP were sampled for PFAS in 2021 and had detections lower than OSD risk screening levels (**Table 2-1**).

The AOPI locations are shown on **Figure 5-2**. Aerial photographs of each AOPI that also show the approximate extent of AFFF use (if applicable) are presented on **Figures 5-3** through **5-13** and include active monitoring wells in the vicinity of each AOPI.

5.2.1 Old and New Fire Stations (Buildings 709 and 710)

The Old and New Fire Stations (Buildings 709 and 710) are identified as a single AOPI following records research, personnel interviews, and site reconnaissance due to historical use and storage of AFFF. The Old Fire Station was host to the Thiokol Chemical Fire Department for the majority of the former installation's activity (1940s to 1997). Nozzle testing occurred at this building. After the New Fire Station (Building 710) was opened, AFFF was still stored in this building. The New Fire Station, neighboring the Old Fire Station to the south, was host to the fire department for a relatively short time before the former installation was found to be excess (1990 to 1997). During this time, AFFF was stored in the building. The site is closed. This area has been transferred to the USFWS (**Figure 5-3**).

5.2.2 Building 744-A Vehicle Wash Rack (LHAAP-056)

Building 744-A Vehicle Wash Rack (LHAAP-056) is identified as an AOPI following records research, personnel interviews, and site reconnaissance due to potential historical release of residual AFFF during fire truck washing. From 1957 to 1997, vehicle washing, including fire trucks, was conducted here. AFFF was stored in buckets on fire trucks on the former installation and the AFFF-containing buckets were observed by interviewees on the trucks while they underwent maintenance. Effluent containing residual AFFF from fire department application activities may have washed off here. Effluent from vehicle washdowns was directed through an oil trap, where oil was separated from water. The separated oil was

taken by a vacuum truck to Burning Ground No. 3. This area has been transferred to the USFWS (**Figure 5-4**).

5.2.3 Plant Area 2 (LHAAP-046)

Plant Area 2 (LHAAP-046) is identified as an AOPI following records research, personnel interviews, and site reconnaissance due to historical operations using potentially PFAS-containing materials. This area is 227 acres in size and was in operation from the 1950s to 1997. Buildings here were used for a multitude of activities involving the aqueous dispersion of Teflon®, including illuminant mixing, consolidation, curing, and drying, pyrotechnic mix pressing, pellet and case assembly, dipping, pellet coating, and drying. Building 409 hosted a spray booth and Building B-7 housed a wash rack. Coating of ALA-17 pellets in Building 409 caused skin rashes in two workers according to historical documents (Plexus Scientific 2005). Skin rash is a common side effect of contact with aqueous Teflon®. Potentially PFAS-containing wastes from these buildings were routed to nearby sumps and pumped out using a vacuum truck for disposal. Sumps were known to have been allowed to overflow and drain by their natural courses to drainage ditches. Potentially PFAS-containing production area waste would also have been disposed of at the Unlined Evaporation Pond, Burning Ground No. 3, and off site. Plant Area 2 has been partially retained by the Army until suitable for transfer and partially transferred to USFWS (**Figure 5-5**).

5.2.4 Plant Area 3 (LHAAP-047)

Plant Area 3 (LHAAP-047) is identified as an AOPI following records research, personnel interviews, and site reconnaissance due to historical operations using potentially PFAS-containing materials. This area is 402 acres in size and was in operation from the 1950s to 1997. Buildings here were used for a multitude of activities involving the aqueous dispersion of Teflon®, including coating, casting, drying, propellant mixing, and cleaning casting equipment. A spray booth, located in Buildings 32-H and 54-G, was used for spray-coating metal parts with Teflon®. Potentially PFAS-containing wastes from these buildings were routed to nearby sumps and pumped out using a vacuum truck for disposal. Sumps were known to have been allowed to overflow and drain by their natural courses to drainage ditches. Potentially PFAS-containing production area waste would also have been disposed of at the Unlined Evaporation Pond, Burning Ground No. 3, and off site. Plant Area 3 has been partially retained by the Army until suitable for transfer and partially transferred to USFWS (**Figure 5-6**).

5.2.5 Pilot Wastewater Treatment Plant (LHAAP-004)

The Pilot Wastewater Treatment Plant (LHAAP-004) is identified as an AOPI following records research, personnel interviews, and site reconnaissance due to historical storage and treatment of potentially PFAS-containing wastewater. Potentially PFAS-containing sump waste from throughout the Former LHAAP was treated here from 1984 to 1997. Sump waste was placed into a 12,000-gallon cone bottom-settling tank and was subsequently transferred to one of two 42,000-gallon storage tanks. From the storage tanks, the wastewater was continuously fed through a heat exchanger to an evaporation tower. After the water evaporation, the concentrated brine in the bottom of the flash evaporator was allowed to mix with the primary sludge. Sludge from settling tanks was burned at Burning Ground No. 3. From 1984 to 1986, solids were shipped off site for disposal. In 1986, solid waste was also disposed of at Burning Ground No. 3. Waste was sometimes kept intermediately at Building 31-W Container Storage Area or

Building 811-1 Hazardous Waste Storage Area prior to off-site disposal. Removal of an area of soil contaminated with mercury and perchlorate was conducted in 2009 under CERCLA removal authority. Approximately 3,406 cubic yards of soil along the southern edge of the slab was excavated and disposed off-site. The depths of excavation ranged from 4 to 14 feet bgs with an average excavation depth of approximately 10 feet bgs. All contaminated soil exceeding cleanup levels in the vadose zone was removed during the soil removal action. This area has been retained by the Army until suitable for transfer (**Figure 5-7**).

5.2.6 Former Waste Disposal Facility (LHAAP-050)

The Former Waste Disposal Facility (LHAAP-050) is identified as an AOPI following records research, personnel interviews, and site reconnaissance due to historical storage, treatment, and disposal of potentially PFAS-containing waste. From 1955 to 1988, potentially PFAS-containing sump waste was pumped into a 47,000-gallon aboveground storage tank at the Former Waste Disposal Facility. After settling, liquid was discharged into Goose Prairie Creek. Sump waste was hauled to Burning Ground No. 3. Historical documents do not describe where solid waste was disposed. In 1963, sump waste was also brought to the Unlined Evaporation Pond. Excavation and off-site disposal of approximately 183 cubic yards of perchlorate-contaminated soil was conducted in September 2013. This area has been retained by the Army until suitable for transfer (**Figure 5-8**).

5.2.7 Building 811-1 Hazardous Waste Storage Area (LHAAP-045)

Building 811-1 Hazardous Waste Storage Area (LHAAP-045) is identified as an AOPI following records research, personnel interviews, and site reconnaissance due to historical storage of potentially PFAS-containing waste. The building was used to store and process potentially PFAS-containing waste from sumps at the Pilot Wastewater Treatment Plant and other explosive waste from the production areas. Waste was then taken to off-site disposal facilities or burned at Burning Ground No. 3. The dates of operation are unknown. This area has been transferred to the USFWS (**Figure 5-9**).

5.2.8 Building 31-W Container Storage Area (LHAAP-009)

Building 31-W Container Storage Area (LHAAP-009) is identified as an AOPI following records research, personnel interviews, and site reconnaissance due to historical storage of potentially PFAS-containing waste. The building was used for storage of containers of potentially PFAS-containing liquids including solid Teflon®, waste fluoroelastomer, and waste photographic developer. It was used for liquid waste storage in the early 1950s and for hazardous waste storage from 1984 until 1999. Potentially PFAS-containing sludge from the Pilot Wastewater Treatment Plant was also taken here. Waste from this area was eventually disposed of offsite. This area has been transferred to the USFWS (**Figure 5-10**).

5.2.9 Burning Ground No. 3 (LHAAP-018)

Burning Ground No. 3 (LHAAP-018) is identified as an AOPI following records research, personnel interviews, and site reconnaissance due to historical treatment, storage, and disposal of potentially PFAS-containing material. From 1955 to 1997, this area was used for treatment, storage, and disposal of solid and liquid explosives, pyrotechnics, and combustible solvent waste (which potentially contained PFAS) by

open burning, open detonation, and burial. Potentially PFAS-containing sump sludge was disposed of here as well. A wash rack, three burning pads, a demolition pit, air curtain destroyer, and several flash pits were incorporated into this area. The Unlined Evaporation Pond (LHAAP-024) was constructed at Burning Ground No. 3; the limits of the Unlined Evaporation Pond (LHAAP-024) AOPI are wholly contained withing the Burning Ground No. 3 AOPI boundary. Groundwater from a French drain interception-collection trench at the Burning Ground No. 3 (LHAAP-018) is routed to the GWTP at the time of this report. This area has been retained by the Army until suitable for transfer (**Figure 5-11**).

5.2.10 Unlined Evaporation Pond (LHAAP-024)

The Unlined Evaporation Pond (LHAAP-024) is identified as an AOPI following records research, personnel interviews, and site reconnaissance due to historical storage and treatment of potentially PFAS-containing waste. The evaporation pond was constructed at Burning Ground No. 3 in 1963 as a holding pond to store flammable, volatile, and pyrotechnic wastes resulting from the washout of rocket motor casings. These wastes potentially contained PFAS. In 1973, the pond also began receiving wash water containing solvent residues and solids collected from operations involving pyrotechnic material preparation. These wastes also potentially contained PFAS. The pond was closed in 1985 when the water was pumped out and sent for disposal at a deep injection well. Approximately 8,116 cubic yards of sludge was removed and sent to a permitted landfill owned and operated by Chemical Waste Management in Carlyss, Louisiana. In 1997, 30,000 cubic yards of soil were excavated and thermally treated. Some of this soil was placed in Landfill 12 (LHAAP-012) and some in Landfill 16 (LHAAP-016). Groundwater from the Unlined Evaporation Pond (LHAAP-024) is routed to the GWTP at the time of this report. This area has been retained by the Army until suitable for transfer (**Figure 5-11**).

5.2.11 Landfill 12 (LHAAP-012)

Landfill 12 (LHAAP-012) (formerly identified as Active Landfill) is identified as an AOPI following records research, personnel interviews, and site reconnaissance due to historical disposal of potentially PFAS-containing wastewater. It was used for disposal of non-hazardous waste, which potentially contained PFAS, starting in 1963. It began consistent use in 1978. It also received potentially PFAS-containing waste from Burning Ground No. 3. A portion of the 30,000 cubic yards of soil excavated from the Unlined Evaporation Pond was taken to this landfill after being thermally treated in 1997 and may have contained PFAS. The cap was completed in 1998. This area has been transferred to the USFWS; however, it is in the Remedial Action Operation phase at the time of this report, which includes monitored natural attenuation, long-term monitoring for groundwater, cap maintenance, well maintenance, inspections, land use control documentation (landfill cap maintenance and restriction of groundwater use), and reporting (including Five-Year Reviews). Site closeout will be the next phase of work (**Figure 5-12**).

5.2.12 Landfill 16 (LHAAP-016)

Landfill 16 (LHAAP-016) (formerly identified as Old Landfill) is identified as an AOPI following records research, personnel interviews, and site reconnaissance due to historical disposal of potentially PFAS-containing wastewater. It was used for disposal of wastes including rocket motor casings, oil, scrap iron, and barrels containing various chemicals starting in 1942. A portion of the 30,000 cubic yards of soil excavated from the Unlined Evaporation Pond was taken to this landfill after being thermally treated in

1997. These wastes potentially contained PFAS. Groundwater from this landfill was piped to the GWTP until September 2019. The cap was completed in 1998. This area has been retained by the Army until suitable for transfer (**Figure 5-13**).

6 SUMMARY OF SI ACTIVITIES

Based on the results of the PA at the Former LHAAP, an SI for PFOS, PFOA, PFBS, PFNA, and PFHxS was conducted in accordance with CERCLA. SI sampling was completed at the Former LHAAP at all 12 AOPIs to evaluate presence or absence of PFOS, PFOA, PFBS, PFNA, and PFHxS in comparison with the OSD risk screening levels. As such, a site-specific QAPP Addendum (Arcadis 2022) was developed to supplement the general information provided in the PQAPP (Arcadis 2019) and to detail the site-specific proposed scopes of work for the SI. A preliminary CSM was prepared for each of the former installation's AOPIs in accordance with the USACE Engineer Manual on Conceptual Site Models, EM 200-1-12 (USACE 2012). The preliminary CSMs identified potential human receptors and chemical exposure pathways based on current and/or reasonably anticipated future land uses. The preliminary CSMs identified soil, groundwater, surface water, and/or sediment pathways as complete or potentially complete which guided the SI sampling. The QAPP Addendum details the sampling design and rationale based on each AOPI's preliminary CSM. The SI scope of work was completed in November and December 2022 through the collection of field data and analytical samples.

The SI field work was completed in accordance with the standard operating procedures (SOPs), technical guidance instructions (TGIs), sampling design, and QA/QC requirements as detailed in the QAPP Addendum (Arcadis 2022) and PQAPP (Arcadis 2019). The subsections below summarize the DQOs, sampling design and rationale, sampling activities and methods, and data analyses procedures for the SI phase at the Former LHAAP. Non-conformances to the prescribed procedures in the PQAPP and QAPP Addendum are described in **Section 6.3.4**. Analytical results obtained through SI field activities are summarized in **Section 7**.

6.1 Data Quality Objectives

As identified during the DQO process and outlined in the site-specific QAPP Addendum (Arcadis 2022), the objective of the SI is to identify whether there has been a release to the environment at the AOPIs identified in the PA and to determine if further investigation is warranted. This SI evaluated groundwater and soil for PFOS, PFOA, PFBS, PFNA, and PFHxS presence or absence at each of the sampled AOPIs.

6.2 Sampling Design and Rationale

The rationale for sampling at each AOPI is illustrated on **Figure 6-1** below.

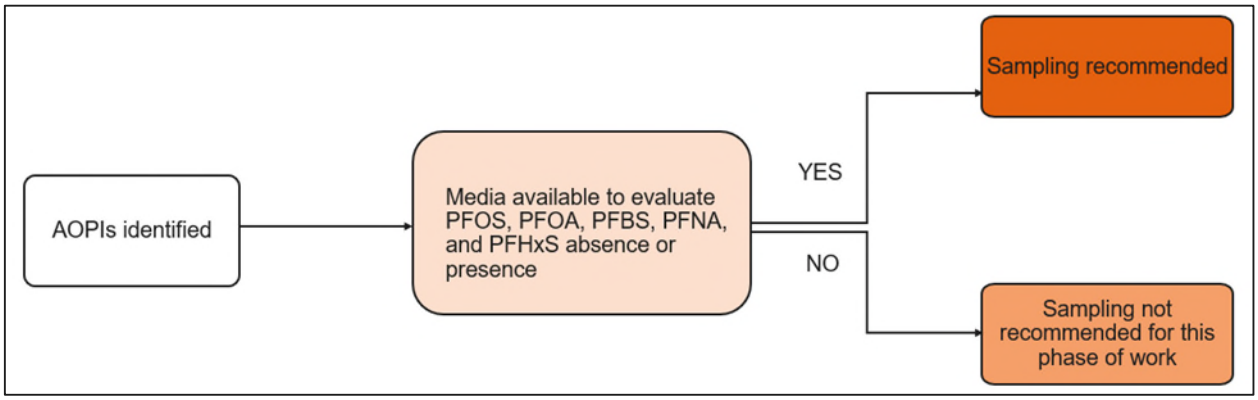

Figure 6-1: AOPI Sampling Decision Tree

The sampling design for SI sampling activities at the Former LHAAP is detailed in Worksheet #17 of the QAPP Addendum (Arcadis 2022). Briefly, soil and groundwater samples were collected from areas at the AOPIs with known or suspected use, storage, and/or disposal of PFAS-containing materials, locations of surface runoff collection, and downgradient locations if exact use, storage, or disposal locations are unknown. Sample locations were selected based on site-specific historical evidence, known or inferred groundwater flow conditions, and surface runoff conditions observed in the field at each sampled AOPI. Sample media types (i.e., surface soil and groundwater) collected for each sampled AOPI were based on media most likely to confirm the presence or absence of PFAS constituents. Soil samples were not collected at the Pilot Wastewater Treatment Plant (LHAAP-004), Unlined Evaporation Pond (LHAAP-024), Landfill 12, or Landfill 16 due to historical excavation and removal and/or capping activities. Surface water and sediment were not sampled during the SI because of the historical nature of potential PFAS-containing material use, storage, and disposal. Where surface water and sediment are present immediately adjacent to an AOPI, it is not expected that PFAS-containing material would still be present.

The focus of the soil sampling was the top 2 feet of native soil, as determined by the field geologist. The first encountered groundwater was the focus of groundwater sampling. Where available, groundwater samples were collected from existing monitoring wells. Temporary wells were installed within/downgradient of the suspected source area to collect groundwater samples at AOPIs where no existing monitoring wells were present to assess groundwater conditions within/downgradient of the AOPIs. **Table 6-1** includes the monitoring well construction details for the wells sampled during the SI (if available).

6.3 Sampling Methods and Procedures

Environmental data was collected and analyzed in accordance with the PQAPP (Arcadis 2019), the SOPs and TGIs included as Appendix A to the PQAPP, the QA/QC requirements identified in Worksheet #20 of the PQAPP, the approved scope and sampling methods outlined in the site-specific QAPP Addendum (Arcadis 2022), and the safety procedures specified in the Accident Prevention Plan (Arcadis 2018) and SSHP (Arcadis 2022). The sampling methods described in the SOPs and TGIs establish equipment requirements, procedures for preparing equipment and containers before sampling, sampling procedures under various conditions, and procedures for storing samples to ensure that sample contamination does

not occur during collection and transport. In general, sampling techniques used in the SI were consistent with conventional sampling techniques used in the environmental industry, but special considerations were made regarding PFAS-containing materials and equipment and cross-contamination potential.

The sampling methods employed during the SI are detailed in the PQAPP (Arcadis 2019) and QAPP Addendum (Arcadis 2022). The subsections below provide a summary of the field methods and procedures utilized to complete the SI scope of work. Field notes and field forms (i.e., soil boring logs, groundwater purging logs, equipment calibration forms, tailgate health and safety forms, and sample collection logs) documenting the SI sampling activities are included in **Appendices H** and **I**, respectively. Photographs of the sampling activities are included in **Appendix J**.

6.3.1 Field Methods

Grab groundwater samples were collected following the installation of temporary well screens using direct push technology (DPT) (six locations) and from existing monitoring wells (37 locations) where available. For the temporary wells, first-encountered groundwater was sampled through a decontaminated stainless-steel screen point sampler in boreholes using PFAS-free equipment (i.e., decontaminated portable bladder pumps and disposable high-density polyethylene bladders/tubing). For existing monitoring wells, groundwater samples were collected from the center of the saturated screened interval using similar equipment to that used to collect the samples from the temporary wells. Groundwater samples were collected via low-flow purging methods. Field parameters (temperature, pH, specific conductivity, dissolved oxygen, turbidity, and oxidation-reduction potential) were measured during purging and allowed to stabilize in accordance with the TGI for PFAS Sampling Procedures and Low-Flow Groundwater Purging for Monitoring Wells (P-11 in Appendix A to the PQAPP; Arcadis 2019) (or purged for a maximum of 20 minutes, whichever occurred first) before groundwater sampling to ensure a representative sample was collected. Temporary monitoring wells were abandoned by a licensed Texas driller by removing the well casing and adding bentonite chips to fill the boring within 1 foot of ground surface. The remainder of the borehole was completed with material consistent with the surrounding ground surface (e.g., topsoil, gravel).

Soil samples were collected at a total of 48 locations via a decontaminated stainless-steel hand auger from the top 2 feet of soil. At each soil sampling point, the 0 to 2 feet soil interval was homogenized on PFAS-free high-density polyethylene plastic sheeting before bottling for analysis.

Decontamination procedures for non-dedicated equipment used during sampling are described in **Section 6.3.5**.

6.3.2 Quality Assurance/Quality Control

Worksheets #20 of the PQAPP and QAPP Addendum provide QA/QC requirements for field duplicates, matrix spike/matrix spike duplicates, equipment blanks (EBs), source blanks for water used in the initial decontamination step for drill tooling, and field blanks for laboratory-supplied water used in the final decontamination step.

QA/QC samples were collected at the frequencies specified in the QAPP Addendum (Arcadis 2022), typically at a rate of 1 per 20 parent samples. Field duplicates and matrix spike/matrix spike duplicate samples were collected for media sampled for PFOS, PFOA, PFBS, PFNA, and PFHxS, and total organic

carbon (TOC) only. EBs were collected for media sampled for PFOS, PFOA, PFBS, PFNA, and PFHxS, at a frequency of one per piece of relevant equipment for each sampling event, as specified in the QAPP Addendum (Arcadis 2022). The decontaminated reusable equipment from which EBs were collected include tubing, hand augers, water-level meters, acetate liners, drilling equipment, and bailers as applicable to the sampled media. Source blanks were collected from the water used to pressure-wash drill tooling. Analytical results for blank samples are discussed in **Section 7.16**.

6.3.3 Dedicated Equipment Background

Dedicated equipment background (DEB) samples were collected at a frequency of one DEB per AOPI at AOPIs where groundwater sampling was conducted at existing monitoring wells that contained dedicated, down-hole equipment (e.g., tubing). When collecting samples from monitoring wells with dedicated, down-hole equipment, two water samples were collected from one monitoring well at each AOPI. One DEB sample was collected from the first water produced through the pump and tubing and was used to evaluate whether the dedicated equipment may be impacting the PFOS, PFOA, PFBS, PFNA, and/or PFHxS results, as it is unknown if the dedicated equipment was comprised of PFAS-containing components. PFOS, PFOA, PFBS, PFNA, and/or PFHxS concentrations in the DEBs reflect concentrations of stagnant groundwater, and they may be biased high by contributions from equipment that contains PFOS, PFOA, PFBS, PFNA, and/or PFHxS components. The parent sample was collected after the well was purged until the field parameters stabilized. Further DEB analysis is included in **Section 7.13**.

6.3.4 Field Change Reports

No instances of major scope modifications (i.e., those that may have had a significant impact on the project scope and/or data usability/quality, or required stop-work, and warranted discussion with USACE) were encountered during the Former LHAAP SI work.

In some cases, clarifications to the established scope of work were needed but do not necessarily constitute a non-conformance from the sampling plans described in the QAPP Addendum. Minor modifications from and clarifications for the procedures and scope of work detailed in the QAPP Addendum and PQAPP and that did not affect DQOs are documented in Field Change Reports (FCRs) included as **Appendix K** and are summarized below:

- FCR-LHAAP-01: Existing monitoring well LHAAP-47WW49 was purged using a bailer instead of a bladder pump due to an insufficient amount of water supply.
- FCR-LHAAP-02: Eight existing monitoring wells were dry upon gauging. Five were replaced with alternate wells and three were not replaced due to the next most suitable monitoring wells already being sampled.
- FCR-LHAAP-03: Two EBs were collected from pieces of equipment that differed from what was planned in the QAPP Addendum due to no hand shovels or check valves being used during the sampling event.
- FCR-LHAAP-04: Borings LHAAP-ONFS-GW-01, LHAAP-ONFS-GW-02, LHAAP-ONFS-GW-03, and LHAAP-ONFS-GW-04 were advanced on 16 November 2022 to depths of 29 feet, 30 feet, 25

feet, and 39 feet, respectively when refusal was hit. Temporary wells were allowed to set overnight. Groundwater recharged at LHAAP-ONFS-GW-02 and LHAAP-ONFS-GW-03 temporary wells; however, LHAAP-ONFS-GW-01 did not recharge and was subsequently plugged and abandoned. The boring for LHAAP-ONFS-GW-01 was subsequently moved 15 feet to the south of the original boring and advanced 6 feet. Tooling was stuck in the boring for LHAAP-ONFS-GW-04. The drill company returned on 28 November 2022 with tooling to further advance the boring. The boring for LHAAP-ONFS-GW-04 was moved 10 feet to the south of the original boring and advanced 45 feet. Sampling was completed as scoped.

- FCR-LHAAP-05: One ice chest containing 18 samples collected during the original sampling event was lost by FedEx in transit to the lab. A second mobilization was coordinated to recollect necessary samples. It was agreed upon with the Former LHAAP POCs that resampling AOPIs where PFAS had already been detected above the OSD risk screening levels was not necessary. This is because the purpose of the SI is to confirm presence/absence and this had already been accomplished at some AOPIs with data obtained from samples submitted in different coolers that were properly delivered to the laboratory.

6.3.5 Decontamination

Non-dedicated reusable sampling equipment (e.g., stainless-steel trowels, hand augers, drill cutting shoes and casing, screen-point samplers, water-level meters) that came into direct contact with sampling media was decontaminated before first use, between sampling locations/intervals, and before demobilization in accordance with P-09, TGI - Groundwater and Soil Sampling Equipment Decontamination (Arcadis 2019, Appendix A).

6.3.6 Investigation-Derived Waste

IDW, including soil cuttings, groundwater and decontamination fluids were collected and placed in Department of Transportation-approved 55-gallon drums, labeled as non-hazardous, segregated by medium: waters and soil, transported to a staging area pending analysis, and subsequently disposed of. The soil IDW was spread on the ground at the Old and New Fire Stations. The water IDW was disposed of at the GWTP. Equipment IDW was collected in bags and disposed in municipal waste receptacles. Equipment IDW includes personal protective equipment and other disposable materials (e.g., gloves, plastic sheeting, polycarbonate tubes, and high density polyethylene and silicon tubing) that may come in contact with sampling media. Analytical results for IDW samples collected during the SI are discussed in **Section 7.14**.

6.4 Data Analysis

The subsections below summarize the laboratory analytical methods and the methodology used to evaluate data collected during the SI through data verification and usability assessments (as completed by a project chemist, independent of the project team).

6.4.1 Laboratory Analytical Methods

Analytical samples collected during the SI were submitted to Pace South Carolina (formerly Shealy Environmental Services, Inc.), an ELAP-accredited laboratory for PFAS analysis, including PFOS, PFOA, PFBS, PFNA, and PFHxS, by liquid chromatography with tandem mass spectrometry. Laboratory analyses associated with the SI were completed in accordance with Worksheets #12.1 through #12.5 in the PQAPP (Arcadis 2019). Eighteen PFAS-related compounds, including PFOS, PFOA, PFBS, PFNA, and PFHxS, were analyzed for in groundwater and soil samples using an analytical method that is ELAP-accredited and compliant with QSM 5.3 (DoD and Department of Energy 2019), Table B-15.

Additionally, the following general chemistry and physical characteristic analyses were completed for select soil samples in accordance with Worksheet #18 of the QAPP Addendum (Arcadis 2022) by the analytical method noted:

- TOC by Solid Waste Test Method 846 9060A
- Grain size analysis by American Society for Testing and Materials D422-63
- pH by Solid Waste Test Method 846 9045D.

These data are collected as they may be useful in future fate and transport studies.

The laboratory limit of detection (LOD) is defined as “the lowest concentration for reliable reporting of a non-detect of a specific analyte in a specific matrix with a specific method at 99 percent confidence” (DoD 2017). The lowest concentration of a substance that produces a quantitative result within specified limits of precision and bias is known as the LOQ (DoD 2017). Concentrations detected between the LOD and LOQ, therefore, are considered estimates and are qualified as such on laboratory analytical reports. Instrument-specific detection limits (e.g., the smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration with 99 percent confidence; DoD 2017), as provided for each analyte by the laboratory, are reported along with the LODs and LOQs in the laboratory analytical reports included in the Data Usability Summary Report (DUSR) (**Appendix L**).

6.4.2 Data Validation

All analytical data generated during the SI, except grain size and data generated from IDW profiling, were verified and validated in accordance with the data verification procedures described in Worksheets #34 through #36 of the PQAPP (Arcadis 2019). Each laboratory data package/sample delivery group underwent Stage 3 data validation in accordance with DoD QSM 5.3 (DoD and Department of Energy 2019). Additionally, 10% of the data underwent Stage 4 data validation. Copies of the data validation reports for each sample delivery group are included as attachments to the DUSR in **Appendix L**. The Level IV analytical reports are included within **Appendix L** in the final electronic deliverable only.

6.4.3 Data Usability Assessment and Summary

A data usability assessment was completed for all analytical data associated with SI sampling at the Former LHAAP. Documentation generated during the data usability assessments, which were compiled into a DUSR (**Appendix L**), was prepared in accordance with the USACE Engineer Manual 200-1-10 (USACE 2005), the Final DoD General Data Validation Guidelines (DoD 2019) and the Final DoD Data

Validation Guidelines Module 3: Data Validation Procedure for Per-and Polyfluoroalkyl Substances Analysis by QSM Table B-15 (DoD 2020), that reviewed precision, accuracy, completeness, representativeness, comparability, and sensitivity. A statement of overall data usability is included in the DUSR.

Based on the final data usability assessment, the environmental data collected at the Former LHAAP during the SI were found to be acceptable and usable for this SI evaluation with the qualifications documented in the DUSR and its associated data validation reports (**Appendix L**), and as indicated in the full analytical tables (**Appendix M**) provided for the SI results. These data are of sufficient quality to meet the objectives and requirements of the PQAPP (Arcadis 2019) and the Former LHAAP QAPP Addendum (Arcadis 2022). Data qualifiers applied to laboratory analytical results for samples collected during the SI at the Former LHAAP are provided in the data tables, data validation reports, and the Data Usability Summary Table located at the end of DUSR. Qualifiers for data shown on figures are defined in the notes of figures.

6.5 Office of the Secretary of Defense Risk Screening Levels

The OSD risk screening levels for PFOS, PFOA, PFBS, PFNA, PFHxS, and HFPO-DA in groundwater (tap water) and soil were calculated using the USEPA's RSL calculator for residential and industrial/commercial worker receptor scenarios and current toxicity values. These risk screening levels are shown in **Table 6-2**, below.

Table 6-2 OSD Risk Screening Levels Calculated for PFOS, PFOA, PFBS, PFNA, PFHxS, and HFPO-DA in Tap Water and Soil Using USEPA's Regional Screening Level Calculator

Chemical	Residential Scenario Risk Screening Levels Calculated Using USEPA RSL Calculator		Industrial/Commercial Scenario Risk Screening Levels Calculated Using USEPA RSL Calculator
	Tap Water (ng/L or ppt) [1]	Soil (mg/kg or ppm) [1,2]	Soil (mg/kg or ppm) [1,2]
PFOS	4	0.013	0.16
PFOA	6	0.019	0.25
PFBS	601	1.9	25
PFNA	6	0.019	0.25
PFHxS	39	0.13	1.6
HFPO-DA[3]	6	0.023	0.35

Notes:
1. Risk screening levels for tap water and soil provided by the OSD. 2022. Memorandum: Investigating Per- and Polyfluoroalkyl Substances within the Department of Defense Cleanup Program. July 06 (**Appendix A**).
2. All soil data will be screened against both the Residential Scenario and Industrial/Commercial risk screening levels (if collected from less than 2 feet bgs), regardless of the current and projected land use of the AOPI.
3. Of the six PFAS compounds presented in the 06 July 2022 OSD memorandum, HFPO-DA (commonly referred to as GenX) was not included as an analyte at the time of this SI. Based on the CSM developed during the PA and revised based on SI findings, the

presence of HFPO-DA is not anticipated at the Former LHAAP because HFPO-DA is generally not a component of MIL-SPEC AFFF and based on its history including distribution limitations that restricted use of GenX, it is generally not a component of other products the military used. In addition, it is unlikely that GenX would be an individual chemical of concern in the absence of other PFAS.
mg/kg = milligram per kilogram
ng/L = nanograms per liter
ppm = parts per million
ppt = parts per trillion

The OSD residential tap water risk screening levels will be used to compare all groundwater for this Army PFAS PA/SI. While the current and most likely future land uses of the AOPIs at the Former LHAAP are for recreational use by the USFWS, both residential and industrial/commercial soil risk screening levels for PFOS, PFOA, PFBS, PFNA, and PFHxS will be used to evaluate detected soil concentrations. The data from the SI sampling event are compared to the OSD risk screening levels in **Section 7**. If concentrations of PFOS, PFOA, PFBS, PFNA, or PFHxS are detected greater than the applicable OSD risk screening levels, further study in a remedial investigation is recommended in **Section 8**.

7 SUMMARY AND DISCUSSION OF SI RESULTS

This section summarizes the analytical results obtained from samples collected during the SI at the Former LHAAP (field duplicate results are provided in the associated tables). Sampled media and QA/QC samples were analyzed for the constituents prescribed per Worksheet #18 of the QAPP Addendum (Arcadis 2022). As discussed in **Appendix K** and **Appendix M**, five groundwater samples from existing monitoring wells were collected from alternate existing monitoring well locations due to field conditions at the time of the sampling event. The sample results discussion below focuses on the PFOS, PFOA, PFBS, PFNA, and PFHxS analytical results because they have OSD risk screening levels. The Army will make subsequent investigation decisions based on these constituents' concentrations relative to the OSD risk screening levels.

Tables 7-1 and **7-2** provide a summary of the groundwater and soil analytical results for PFOS, PFOA, PFBS, PFNA, and PFHxS. **Table 7-3**, below, summarizes AOPIs and whether their SI results exceed the OSD risk screening levels. **Appendix M** includes the full suite of analytical results for these media, as well as for the QA/QC samples. An overview of AOPIs at the Former LHAAP with OSD risk screening level exceedances is depicted on **Figure 7-1**. **Figures 7-2** through **7-12** show the PFOS, PFOA, PFBS, PFNA, and PFHxS analytical results in groundwater and soil for each AOPI. Non-detected results are reported as less than the LOQ. Detections of PFOS, PFOA, PFBS, PFNA, and/or PFHxS greater than the applicable OSD risk screening levels are highlighted in summary tables and on figures. Final qualifiers applied to the data by the laboratory and the project chemist (as defined in **Section 6.4.3**) are presented on the analytical tables. Groundwater data collected during the SI are reported in ng/L, or parts per trillion, and soil data are reported in mg/kg, or parts per million.

Field parameters measured for groundwater during low-flow purging and sample collection are provided on the field forms in **Appendix I**. Soil descriptions are provided on the field forms in **Appendix I**. The results of the SI are grouped by AOPI and discussed for each medium as applicable. Groundwater was generally first encountered at depths of approximately 5 to 37 feet bgs in the grab groundwater samples and at depths of approximately 9 to 43 feet bgs in the existing monitoring wells.

Table 7-3 AOPIs and OSD Risk Screening Level Exceedances

AOPI Name	OSD Exceedances (Yes/No)
Old and New Fire Station (Buildings 709 and 710)	Yes
Building 744-A Vehicle Wash Rack (LHAAP-056)	No
Plant Area 2 (LHAAP-046)	Yes
Plant Area 3 (LHAAP-047)	Yes
Pilot Wastewater Treatment Plant (LHAAP-004)	No
Former Waste Disposal Facility (LHAAP-050)	Yes
Building 811-1 Hazardous Waste Storage Area (LHAAP-045)	No
Building 31-W Container Storage Area (LHAAP-009)	No
Burning Ground No. 3 (LHAAP-018)	Yes

AOPI Name	OSD Exceedances (Yes/No)
Unlined Evaporation Pond (LHAAP-024)	Yes
Landfill 12 (LHAAP-012)	Yes
Landfill 16 (LHAAP-016)	Yes

7.1 Old and New Fire Station (Buildings 709 and 710)

The subsections below summarize the groundwater and soil PFOS, PFOA, PFBS, PFNA, and PFHxS analytical results associated with the Old and New Fire Station (Buildings 709 and 710) AOPI shown on **Figure 7-2** and **Tables 7-1** and **7-2**.

7.1.1 Groundwater

Five groundwater samples were collected at the Old and New Fire Station (Buildings 709 and 710) AOPI. One groundwater sample was collected from an existing monitoring well (LHAAP-LHSMW01). Four grab groundwater samples were collected from four borings via DPT at first-encountered groundwater, in the shallow groundwater zone at depths detailed in **Appendix I** (LHAAP-ONFS-GW-01, LHAAP-ONFS-GW-02, LHAAP-ONFS-GW-03, and LHAAP-ONFS-GW-04). The groundwater analytical results are as follows:

PFOS was detected at a concentration greater than the OSD risk screening level of 4 ng/L in three groundwater samples: LHAAP-LHSMW01-111122 (4.8 ng/L), LHAAP-ONFS-GW-01-112822 (11 J+ ng/L), and LHAAP-ONFS-GW-03-111622 (4.4 ng/L). The J qualifier indicates that the analyte was positively identified, however the result is an estimated concentration only. The '+' qualifier indicates that the estimated result may be biased high.

PFOA was detected at a concentration greater than the OSD risk screening level of 6 ng/L in all five groundwater samples: LHAAP-LHSMW01-111122 (29 ng/L), LHAAP-ONFS-GW-01-112822 (25 ng/L), LHAAP-ONFS-GW-02-111622 (160 ng/L), LHAAP-ONFS-GW-03-111622 (33 ng/L), and LHAAP-ONFS-GW-04-112822 (17 ng/L).

PFBS was detected at a concentration less than the OSD risk screening level of 601 ng/L in two groundwater samples: LHAAP-ONFS-GW-02-111622 (6.5 ng/L) and LHAAP-ONFS-GW-03-111622 (2.2 J ng/L).

PFNA was detected at a concentration greater than the OSD risk screening level of 6 ng/L in three groundwater samples: LHAAP-LHSMW01-111122 (700 ng/L), LHAAP-ONFS-GW-02-111622 (18 ng/L), and LHAAP-ONFS-GW-03-111622 (24 ng/L) and at a concentration less than the OSD risk screening level of 6 ng/L in one groundwater sample: LHAAP-ONFS-GW-01-112822 (5.6 ng/L).

PFHxS was detected at a concentration less than the OSD risk screening level of 39 ng/L in three groundwater samples: LHAAP-LHSMW01-111122 (5.2 ng/L), LHAAP-ONFS-GW-02-111622 (5.7 ng/L), and LHAAP-ONFS-GW-03-111622 (2.2 J ng/L)

These groundwater analytical results are presented on **Figure 7-2** and in **Table 7-1.**

7.1.2 Soil

Soil samples were collected from six locations at the Old and New Fire Station (Buildings 709 and 710) AOPI (LHAAP-ONFS-SO-01, LHAAP-ONFS-SO-02, LHAAP-ONFS-SO-03, LHAAP-ONFS-SO-04, LHAAP-ONFS-SO-05, and LHAAP-ONFS-SO-06). The soil analytical results are as follows:

PFOS was detected at a concentration less than the residential OSD risk screening level of 0.013 mg/kg in soil sample LHAAP-ONFS-SO-02-111522 (0.0013 mg/kg).

PFNA was detected at a concentration less than the OSD risk screening level of 0.019 mg/kg in soil sample LHAAP-ONFS-SO-06-110822 (0.0022 mg/kg).

PFOA, PFBS, and PFHxS were not detected in any of the soil samples collected.

These soil analytical results are presented on **Figure 7-2** and in **Table 7-2.**

7.2 Building 744-A Vehicle Wash Rack (LHAAP-056)

The subsections below summarize the groundwater and soil PFOS, PFOA, PFBS, PFNA, and PFHxS analytical results associated with the Building 744-A Vehicle Wash Rack (LHAAP-056) AOPI shown on **Figure 7-3** and **Tables 7-1** and **7-2**.

7.2.1 Groundwater

Three groundwater samples were collected from three existing monitoring wells at the Building 744-A Vehicle Wash Rack (LHAAP-056) AOPI (LHAAP-35AWW06, LHAAP-35AWW16, and LHAAP-35AWW20 [duplicate sample collected at LHAAP-35AWW06]). The groundwater analytical results are as follows:

PFOA was detected at a concentration less than the OSD risk screening level of 6 ng/L in one groundwater sample: LHAAP-35AWW20-111122 (2.3 J ng/L).

PFOS, PFBS, PFNA, and PFHxS were not detected in any of the groundwater samples collected.

These groundwater analytical results are presented on **Figure 7-3** and in **Table 7-1**.

7.2.2 Soil

Soil samples were collected from three locations at the Building 744-A Vehicle Wash Rack (LHAAP-056) AOPI (LHAAP-VWR-SO-01, LHAAP-VWR-SO-02, and LHAAP-VWR-SO-03 [duplicate sample collected at LHAAP-VWR-SO-02]). The soil analytical results are as follows:

PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in any of the soil samples collected.

These soil analytical results are presented on **Figure 7-3** and in **Table 7-2**.

7.3 Plant Area 2 (LHAAP-046)

The subsections below summarize the groundwater and soil PFOS, PFOA, PFBS, PFNA, and PFHxS analytical results associated with the Plant Area 2 (LHAAP-046) AOPI shown on **Figure 7-4** and **Tables 7-1** and **7-2**.

7.3.1 Groundwater

Six groundwater samples were collected from six existing monitoring wells at the Plant Area 2 (LHAAP-046) AOPI (LHAAP-46WW02, LHAAP-46WW06, LHAAP-LHSMW19, LHAAP-LHSMW21, LHAAP-LHSMW23R, and LHAAP-LHSMW25). The groundwater analytical results are as follows:

PFOS was detected at a concentration greater than the OSD risk screening level of 4 ng/L in one groundwater sample: LHAAP-46WW02-113022 (17 ng/L). PFOS was detected at a concentration less than the OSD risk screening level of 4 ng/L in one groundwater sample: LHAAP-LHSMW19-111222 (2.6 J ng/L)

PFOA was detected at a concentration greater than the OSD risk screening level of 6 ng/L in one groundwater sample: LHAAP-46WW02-113022 (29 ng/L)

PFBS was detected at a concentration less than the OSD risk screening level of 601 ng/L in one groundwater sample: LHAAP-LHSWM19-111222 (2.6 J ng/L).

PFNA was not detected in any of the groundwater samples collected.

PFHxS was detected at a concentration less than the OSD risk screening level of 39 ng/L in one groundwater sample: LHAAP-46WW02-113022 (4.4 ng/L).

These groundwater analytical results are presented on **Figure 7-4** and in **Table 7-1.**

7.3.2 Soil

Soil samples were collected from 13 locations at the Plant Area 2 (LHAAP-046) AOPI (LHAAP-PA2-SO-01 through LHAAP-PA2-SO-13). The soil analytical results are as follows:

PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in any of the soil samples collected.

These soil analytical results are presented on **Figure 7-4** and in **Table 7-2.**

7.4 Plant Area 3 (LHAAP-047)

The subsections below summarize the groundwater and soil PFOS, PFOA, PFBS, PFNA, and PFHxS analytical results associated with the Plant Area 3 (LHAAP-047) AOPI shown on **Figure 7-5** and **Tables 7-1** and **7-2**.

7.4.1 Groundwater

Ten groundwater samples were collected from ten existing monitoring wells at the Plant Area 3 (LHAAP-047) AOPI (LHAAP-LHSMW41, LHAAP-LHSMW44, LHAAP-LHSMW45, LHAAP-LHSMW54, LHAAP-LHSMW56R, LHAAP-35BWW07, LHAAP-47WW19, LHAAP-47WW42, LHAAP-47WW48, and LHAAP-47WW49 [duplicate samples collected at LHAAP-LHSMW54, LHAAP-35BWW07, and LHAAP-47WW42]). The groundwater analytical results are as follows:

PFOA was detected at a concentration greater than the OSD risk screening level of 6 ng/L in two groundwater samples: LHAAP-LHSMW56R-112922 (85 ng/L) and LHAAP-47WW42-113022 (6.2 ng/L) and at a concentration less than the OSD risk screening level of 6 ng/L in two groundwater samples: the

field duplicate associated with LHAAP-47WW42-113022 (5.3 ng/L) and LHAAP-47WW48-112922 (2.5 J ng/L).

PFOS, PFBS, PFNA, and PFHxS were not detected in any of the groundwater samples collected.

These groundwater analytical results are presented on **Figure 7-5** and in **Table 7-1.**

7.4.2 Soil

Soil samples were collected from 12 locations at the Plant Area 3 (LHAAP-047) AOPI (LHAAP-PA3-SO-01 through LHAAP-PA3-SO-12). The soil analytical results are as follows:

PFOA was detected at a concentration less than the residential OSD risk screening level of 0.019 mg/kg in two soil samples: LHAAP-PA3-SO-04-110922 (0.0014 mg/kg) and LHAAP-PA3-SO-04-112822 (0.0011 mg/kg).

PFOS, PFBS, PFNA, and PFHxS were not detected in any of the soil samples collected.

These soil analytical results are presented on **Figure 7-5** and in **Table 7-2.**

7.5 Pilot Wastewater Treatment Plant (LHAAP-004)

The subsection below summarizes the groundwater PFOS, PFOA, PFBS, PFNA, and PFHxS analytical results associated with the Pilot Wastewater Treatment Plant (LHAAP-004) AOPI shown on **Figure 7-6** and **Table 7-1**. Soil samples were not collected at this AOPI because it has been excavated and transported offsite.

7.5.1 Groundwater

Three groundwater samples were collected from three existing monitoring wells at the Pilot Wastewater Treatment Plant (LHAAP-004) AOPI (LHAAP-04WW01, LHAAP-04WW07, and LHAAP-04WW08). The groundwater analytical results are as follows:

PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in any of the groundwater samples collected.

These groundwater analytical results are presented on **Figure 7-6** and in **Table 7-1.**

7.6 Former Waste Disposal Facility (LHAAP-050)

The subsections below summarize the groundwater and soil PFOS, PFOA, PFBS, PFNA, and PFHxS analytical results associated with the Former Waste Disposal Facility (LHAAP-050) AOPI shown on **Figure 7-7** and **Tables 7-1** and **7-2**.

7.6.1 Groundwater

Two groundwater samples were collected from two existing monitoring wells at the Former Waste Disposal Facility (LHAAP-050) AOPI (LHAAP-50WW12 and LHAAP-50WW13). The groundwater analytical results are as follows:

PFOA was detected at a concentration greater than the OSD risk screening level of 6 ng/L in one groundwater sample: LHAAP-50WW13-111422 (22 ng/L).

PFOS, PFBS, PFNA, and PFHxS were not detected in either of the groundwater samples collected.

These groundwater analytical results are presented on **Figure 7-7** and in **Table 7-1.**

7.6.2 Soil

Soil samples were collected from three locations at the Former Waste Disposal Facility (LHAAP-050) AOPI (LHAAP-FWDF-SO-01, LHAAP-FWDF-SO-02, and LHAAP-FWDF-SO-03). The soil analytical results are as follows:

PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in any of the soil samples collected.

These soil analytical results are presented on **Figure 7-7** and in **Table 7-2.**

7.7 Building 811-1 Hazardous Waste Storage Area (LHAAP-045)

The subsections below summarize the groundwater and soil PFOS, PFOA, PFBS, PFNA, and PFHxS analytical results associated with the Building 811-1 Hazardous Waste Storage Area (LHAAP-045) AOPI shown on **Figure 7-8** and **Tables 7-1** and **7-2**.

7.7.1 Groundwater

One grab groundwater sample was collected from one boring via DPT at first-encountered groundwater at the Building 811-1 Hazardous Waste Storage Area (LHAAP-045) AOPI (LHAAP-HWSA-GW-01 [duplicate sample collected at LHAAP-HWSA-GW-01]). The groundwater analytical results are as follows:

PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in either of the groundwater samples collected.

These groundwater analytical results are presented on **Figure 7-8** and in **Table 7-1.**

7.7.2 Soil

Soil samples were collected from three locations at the Building 811-1 Hazardous Waste Storage Area (LHAAP-045) AOPI (LHAAP-HWSA-SO-01, LHAAP-HWSA-SO-02, and LHAAP-HWSA-SO-03). The soil analytical results are as follows:

PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in any of the soil samples collected.

These soil analytical results are presented on **Figure 7-8** and in **Table 7-2.**

7.8 Building 31-W Container Storage Area (LHAAP-009)

The subsections below summarize the groundwater and soil PFOS, PFOA, PFBS, PFNA, and PFHxS analytical results associated with the Building 31-W Container Storage Area (LHAAP-009) AOPI shown on **Figure 7-9** and **Tables 7-1** and **7-2**.

7.8.1 Groundwater

One grab groundwater sample was collected from one boring via DPT at first-encountered groundwater at the Building 31-W Container Storage Area (LHAAP-009) AOPI (LHAAP-CSA-GW-01 [duplicate sample collected at LHAAP-CSA-GW-01]). The groundwater analytical results are as follows:

PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in either of the groundwater samples collected.

These groundwater analytical results are presented on **Figure 7-9** and in **Table 7-1.**

7.8.2 Soil

Soil samples were collected from three locations at the Building 31-W Container Storage Area (LHAAP-009) AOPI (LHAAP-CSA-SO-01, LHAAP-CSA-SO-02, and LHAAP-CSA-SO-03 [duplicate sample collected at LHAAP-CSA-SO-02]). The soil analytical results are as follows:

PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in any of the soil samples collected.

These soil analytical results are presented on **Figure 7-9** and in **Table 7-2.**

7.9 Burning Ground No. 3 (LHAAP-018)

The subsections below summarize the groundwater and soil PFOS, PFOA, PFBS, PFNA, and PFHxS analytical results associated with the Burning Ground No. 3 (LHAAP-018) AOPI shown on **Figure 7-10** and **Tables 7-1** and **7-2**.

7.9.1 Groundwater

Three groundwater samples were collected from three existing monitoring wells at the Burning Ground No. 3 (LHAAP-018) AOPI (LHAAP-120, LHAAP-18CPTMW04, and LHAAP-18CPTMW23). The groundwater analytical results are as follows:

PFOS was detected at a concentration less than the OSD risk screening level of 4 ng/L in two groundwater samples: LHAAP-120-111522 (3.4 J ng/L) and LHAAP-18CPTMW04-111622 (2.8 J- ng/L). The '-' qualifier indicates that the estimated result may be biased low.

PFOA was detected at a concentration greater than the OSD risk screening level of 6 ng/L in two groundwater samples: LHAAP-120-111522 (7.1 ng/L) and LHAAP-18CPTMW04-111622 (22 J- ng/L) and at a concentration less than the OSD risk screening level of 6 ng/L in one groundwater sample: LHAAP-18CPTMW23-111522 (5.2 ng/L)

PFBS was detected at a concentration less than the OSD risk screening level of 601 ng/L in one groundwater sample: LHAAP-18CPTMW04-111622 (3.5 J- ng/L).

PFNA was not detected in any of the groundwater samples collected.

PFHxS was detected at a concentration less than the OSD risk screening level of 39 ng/L in one groundwater sample: LHAAP-18CPTMW04-111622 (2.4 J- ng/L).

These groundwater analytical results are presented on **Figure 7-10** and in **Table 7-1.**

7.9.2 Soil

Soil samples were collected from five locations at the Burning Ground No. 3 (LHAAP-018) AOPI (LHAAP-BG3-SO-01, LHAAP-BG3-SO-02, LHAAP-BG3-SO-03, LHAAP-BG3-SO-04, and LHAAP-BG3-SO-05). The soil analytical results are as follows:

PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in any of the soil samples collected.

These soil analytical results are presented on **Figure 7-10** and in **Table 7-2.**

7.10 Unlined Evaporation Pond (LHAAP-024)

The subsection below summarizes the groundwater PFOS, PFOA, PFBS, PFNA, and PFHxS analytical results associated with the Unlined Evaporation Pond (LHAAP-024) AOPI shown on **Figure 7-10** and **Table 7-1**. Soil samples were not collected from this AOPI because the evaporation pond was closed in 1985 when the water was pumped out and sent for disposal at a deep, off-site permitted waste injection well, and sludge was removed and disposed offsite. In 1997, soil at the Unlined Evaporation Pond AOPI was excavated and thermally treated.

7.10.1 Groundwater

Three groundwater samples were collected from three existing monitoring wells at the Unlined Evaporation Pond (LHAAP-024) AOPI (LHAAP-MW1, LHAAP-MW2, and LHAAP-MW3). The groundwater analytical results are as follows:

PFOS was detected at a concentration greater than the OSD risk screening level of 4 ng/L in two groundwater samples: LHAAP-MW2-111622 (29 ng/L) and LHAAP-MW3-111622 (42 ng/L) and at a concentration less than the OSD risk screening level of 4 ng/L in one groundwater sample: LHAAP-MW1-111522 (2.9 J).

PFOA was detected at a concentration greater than the OSD risk screening level of 6 ng/L in all three groundwater samples: LHAAP-MW1-111522 (23 ng/L), LHAAP-MW2-111622 (24 ng/L), and LHAAP-MW3-111622 (9.3 ng/L)

PFBS was detected at a concentration less than the OSD risk screening level of 601 ng/L in all three groundwater samples: LHAAP-MW1-111522 (9.5 ng/L), LHAAP-MW2-111622 (11 ng/L), and LHAAP-MW3-111622 (1.9 J ng/L)

PFNA was not detected in any of the groundwater samples collected.

PFHxS was detected at a concentration less than the OSD risk screening level of 39 ng/L in all three groundwater samples: LHAAP-MW1-111522 (2.2 J ng/L), LHAAP-MW2-111622 (5.3 ng/L), and LHAAP-MW3-111622 (5.6 ng/L).

These groundwater analytical results are presented on **Figure 7-10** and in **Table 7-1.**

7.11 Landfill 12 (LHAAP-012)

The subsection below summarizes the groundwater PFOS, PFOA, PFBS, PFNA, and PFHxS analytical results associated with the Landfill 12 (LHAAP-012) AOPI shown on **Figure 7-11** and **Table 7-1.** Soil

samples were not collected this AOPI because the landfill is capped to prevent erosion and redistribution of landfill materials and human exposure.

7.11.1 Groundwater

Three groundwater samples were collected from three existing monitoring wells at the Landfill 12 (LHAAP-012) AOPI (LHAAP-12WW01, LHAAP-12WW02, and LHAAP-12WW24). The groundwater analytical results are as follows:

PFOA was detected at a concentration greater than the OSD risk screening level of 6 ng/L in two groundwater samples: LHAAP-12WW01-111522 (17 ng/L) and LHAAP-12WW24-111622 (10 J- ng/L) and at a concentration less than the OSD risk screening level of 6 ng/L in one groundwater sample: LHAAP-12WW02-111522 (3.8 ng/L)

PFOS, PFBS, PFNA, and PFHxS were not detected in any of the groundwater samples collected.

These groundwater analytical results are presented on **Figure 7-11** and in **Table 7-1.**

7.12 Landfill 16 (LHAAP-016)

The subsection below summarizes the groundwater PFOS, PFOA, PFBS, PFNA, and PFHxS analytical results associated with the Landfill 16 (LHAAP-016) AOPI shown on **Figure 7-12** and **Table 7-1**. Soil samples were not collected from this AOPI because the landfill is capped to prevent erosion and redistribution of landfill materials and human exposure.

7.12.1 Groundwater

Three groundwater samples were collected from three existing monitoring wells at the Landfill 16 (LHAAP-016) AOPI (LHAAP-16WW13, LHAAP-16WW16, and LHAAP-16WW36). The groundwater analytical results are as follows:

PFOA was detected at a concentration greater than the OSD risk screening level of 6 ng/L in two groundwater samples: LHAAP-16WW13-111622 (620 ng/L) and LHAAP-16WW36-111622 (95 ng/L) and at a concentration less than the OSD risk screening level of 6 ng/L in one groundwater sample: LHAAP-16WW16-111622 (2.1 J ng/L).

PFOS was detected at a concentration greater than the OSD risk screening level of 4 ng/L in one groundwater sample: LHAAP-16WW13-111622 (8.2 ng/L).

PFBS and PFNA were not detected in any of the groundwater samples collected.

Pace South Carolina was not able to achieve an LOQ below OSD risk screening levels for PFOS and PFNA in one groundwater sample (LHAAP-16WW36). The OSD risk screening level for PFOS and PFNA are 4 ng/L and 6 ng/L, respectively. The LOQ for both PFOS and PFNA was 40 ng/L. As a result, PFOS and PFNA cannot be evaluated against OSD risk screening levels for this sample.

PFHxS was detected at a concentration less than the OSD risk screening level of 39 ng/L in one groundwater sample: LHAAP-16WW13-111622 (4.6 ng/L).

These groundwater analytical results are presented on **Figure 7-12** and in **Table 7-1**.

7.13 Dedicated Equipment Background Samples

A total of nine DEBs were collected from the existing tubing located within wells at each AOPI where existing equipment was present. Three of the parent sample and DEB pairs had detections for PFOS, PFOA, PFBS, PFNA, and/or PFHxS constituents in both the parent and DEB sample (**Appendix M**). All parent samples had lower PFOS, PFOA, PFBS, PFNA, and/or PFHxS detections, if any, compared to their associated DEB samples with detections. Normal purging of the equipment resulted in PFOS, PFOA, PFBS, PFNA, and/or PFHxS levels in the associated parent sample below the OSD Risk Screening Levels in all wells. Thus, purging appeared to largely remove any residual PFOS, PFOA, PFBS, PFNA, and/or PFHxS related to the equipment and any significant bias it might have imparted on the sample concentrations. The nine DEB sample pairs collected at the Former LHAAP suggest that sampling using the dedicated downhole sampling equipment did not bias sample PFOS, PFOA, PFBS, PFNA, and/or PFHxS results.

7.14 Investigation Derived Waste

IDW consisted of soil and groundwater and was stored in Department of Transportation approved 55-gallon drums. Non-hazardous labels were used for the storage of the IDW. A total of two 55-gallon drums, one for groundwater and one for soil were filled and staged outside of the GWTP prior to waste profiling and disposal. The results indicated the following concentrations in the wastewater: 3.7 ng/L PFOS, 24 ng/L PFOA, 9.1 ng/L PFNA, and non-detect for PFBS and PFHxS (**Appendix M**). PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in the soil IDW sample. The soil IDW was spread on the ground at the Old and New Fire Stations. The water IDW was disposed of at the GWTP for treatment. The full analytical results (i.e., for all constituents analyzed) for IDW samples collected during the SI are included in **Appendix M**.

7.15 TOC, pH, and Grain Size

In addition to sampling soil for PFOS, PFOA, PFBS, PFNA, and PFHxS, one soil sample per AOPI was analyzed for TOC, pH, moisture content, and grain size data as they may be useful in future fate and transport studies (**Appendix M**). The TOC in the soil samples ranged from 349 to 2,400 mg/kg. The TOC at this former installation was within range of what is typically observed in desert soil (less than 5,000 mg/kg). The combined percentage of fines (i.e., silt and clay) in soils at the Former LHAAP ranged from 43.2 to 83.9% with an average of 55.49%. In general, PFAS constituents tend to be more mobile in soils with less than 20% fines (silt and clay) and lower TOC. The percent moisture of the soil (an average of approximately 15%) was typical for clay (0 to 20%). The pH of the soil was neutral (approximately 7 standard units). While PFAS constituents are relatively less mobile in soils with high percentages of fines, depleted TOC may allow for enhanced mobility of the constituents in soil.

7.16 Blank Samples

PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in any of the blank samples collected during the SI work.

The full analytical results for blank samples collected during the SI are included in **Appendix M**.

7.17 Conceptual Site Models

The preliminary CSMs presented in the QAPP Addendum (Arcadis 2022) were re-evaluated and updated, if necessary, based on the SI sampling results. The CSMs presented on **Figures 7-13** through **7-21** and in this section therefore represent the current understanding of the potential for human exposure. For some AOPIs, the CSM is the same and thus shown on the same figure.

Many of the PFAS constituents found in AFFF are surfactants (which do not volatilize) and are found in a charged or ionic state at environmentally-relevant pH (i.e., pH 5 to 9 standard units). PFOS, PFOA, PFBS, PFNA, and PFHxS are each negatively charged at environmentally-relevant pH. The media potentially affected by PFOS, PFOA, PFBS, PFNA, and PFHxS releases at Army installations are soil, groundwater, surface water, and sediment. Once released to the environment, a primary factor that inhibits the movement of PFAS constituents is the presence of organic matter and organic co-constituents in soils and sediments. Generally, PFAS constituents are mobile in the potentially affected media, and they are not known to be fully broken down by natural processes.

Based on the use, storage, and/or disposal of PFAS-containing materials at the AOPIs, affected media are likely to consist of soil and groundwater and could include surface water and sediment. Release and transport mechanisms include dissolution/desorption from soil to groundwater, transport via sediment carried in and dissolution to stormwater and surface water, discharge/recharge between groundwater and surface water, and adsorption/desorption between surface water and sediment. Generic categories of potential human receptors and their associated exposure scenarios that are typically evaluated in a CERCLA human health risk assessment were considered and include on-site workers (e.g., industrial/commercial workers, utility workers, or future construction workers who could be exposed to chemicals in soil at an AOPI or to chemicals in tap water in an industrial/commercial building), on-site residents (e.g., adults and children who could be exposed to chemicals in tap water in a residence), and on-site recreational users (e.g., hikers or hunters who could be exposed to chemicals in soil and/or waterways). Off-site receptor types could include drinking water receptors (i.e., commercial/industrial workers or residents) and recreational users.

Human exposure pathways are shown as “complete”, “potentially complete”, or “incomplete” on the CSM figures. A complete exposure pathway consists of a constituent source and release mechanism, a transport or retention medium, an exposure point where human contact with the contaminated medium could occur, and an exposure route at the exposure point. If any of these elements is missing, the exposure pathway is incomplete. Pathways are “potentially complete” where data are insufficient to conclude the pathway is either “complete” or “incomplete”. Additionally, the CSMs do not include ecological receptors and exposure pathways. The potential for ecological exposures to PFOS, PFOA, PFBS, PFNA, and PFHxS may be evaluated at a future date if those pathways warrant further consideration.

CSMs were developed for each individual AOPI and were combined where source media, potential migration pathways and exposure media, and human exposure pathway determinations are congruent. The following exposure pathway determinations apply to all CSMs:

- The AOPIs are not residential sites at the time of this report and are unlikely to be used for residential purposes in the future. As previously stated, transferred portions of the Former LHAAP are utilized as a wildlife refuge at the time of this report, and those portions yet to be transferred

are planned to be used as such when transfer is complete. Therefore, all exposure pathways for on-site residents are incomplete.

- It is not anticipated that recreational users would contact groundwater during outdoor recreational activities. Therefore, the groundwater exposure pathway for on-site recreational users is incomplete.

Additional exposure pathway descriptions for each CSM are listed below by figure.

Figure 7-13 shows the CSM for the Old and New Fire Stations (Buildings 709 and 710) AOPI. Potential releases of AFFF to soil and/or paved surfaces at the fire stations are associated with historical nozzle testing, AFFF storage, or vehicle washing.

- PFOS and PFNA were detected in soil at the Old and New Fire Stations (Buildings 709 and 710) AOPI. On-site workers, on-site recreational users, and off-site receptors (i.e., visitors to the USFWS property who are not necessarily engaging in recreational activities) could contact constituents in soil via incidental ingestion, dermal contact, and inhalation of dust. Therefore, the soil exposure pathways for these receptors are complete.
- PFOS, PFOA, PFBS, PFNA, and PFHxS were detected in groundwater at the Old and New Fire Stations (Buildings 709 and 710) AOPI. Three water supply wells are located within the boundary of the Former LHAAP. None of these wells are used for drinking water or other potable uses at the time of this report. However, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for on-site workers is potentially complete to account for potential future use of the downgradient on-site groundwater as a potable water source.
- Shallow groundwater originating at the AOPIs may migrate outside the boundary of the Former LHAAP, where groundwater may be used as a potable water source. Therefore, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for off-site receptors is potentially complete.
- PFAS originating at the AOPIs may be transported to perennial or intermittent on-site surface water features via surface runoff and/or shallow groundwater discharge. On-site workers and on-site recreational users could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways are potentially complete.
- Surface water originating on the Former LHAAP flows to Caddo Lake, a local drinking water supply and recreational area. Therefore, the surface water exposure pathway for off-site drinking water receptors is potentially complete. Additionally, recreational users using Caddo Lake could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways for off-site receptors are potentially complete.

Figure 7-14 shows the CSM for the Building 744-A Vehicle Wash Rack (LHAAP-056) AOPI. Potential releases of AFFF to soil and/or paved surfaces may have occurred at the vehicle wash rack.

- PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in soil at the AOPI. Based on the SI sample results, the soil exposure pathways for on-site workers, on-site recreational users, and off-site receptors are incomplete.
- PFOA was detected in groundwater at the AOPIs. Three water supply wells are located within the boundary of the Former LHAAP. None of these wells are used for drinking water or other potable

uses at the time of this report. However, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for on-site workers is potentially complete to account for potential future use of the downgradient on-site groundwater as a potable water source.

- Shallow groundwater originating at the AOPIs may migrate outside the boundary of the Former LHAAP, where groundwater may be used as a potable water source. Therefore, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for off-site receptors is potentially complete.
- PFAS originating at the AOPI may be transported to perennial or intermittent on-site surface water features via surface runoff and/or shallow groundwater discharge. On-site workers and on-site recreational users could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways are potentially complete.
- Surface water originating on the Former LHAAP flows to Caddo Lake, a local drinking water supply and recreational area. Therefore, the surface water exposure pathway for off-site drinking water receptors is potentially complete. Additionally, recreational users using Caddo Lake could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways for off-site receptors are potentially complete.

Figure 7-15 shows the CSM for the Plant Area 2 (LHAAP-046) AOPI, where releases of PFAS-containing wastewater to soil and/or paved surfaces may have occurred.

- PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in soil at the Plant Area 2 (LHAAP-046) AOPI. Based on the SI sample results, the soil exposure pathways for on-site workers, on-site recreational users, and off-site receptors are considered to be incomplete at Plant Area 2.
- PFOS, PFOA, PFBS, and/or PFHxS were detected in groundwater at the AOPIs. Three water supply wells are located within the boundary of the Former LHAAP. None of these wells are used for drinking water or other potable uses at the time of this report. However, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for on-site workers is potentially complete to account for potential future use of the downgradient on-site groundwater as a potable water source.
- Shallow groundwater originating at the AOPIs may migrate outside the boundary of the Former LHAAP, where groundwater may be used as a potable water source. Therefore, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for off-site receptors is potentially complete.
- PFAS originating at the AOPIs may be transported to perennial or intermittent on-site surface water features via surface runoff and/or shallow groundwater discharge. On-site workers and on-site recreational users could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways are potentially complete.
- Surface water originating on the Former LHAAP flows to Caddo Lake, a local drinking water supply and recreational area. Therefore, the surface water exposure pathway for off-site drinking water receptors is potentially complete. Additionally, recreational users using Caddo Lake could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways for off-site receptors are potentially complete.

Figures 7-16 shows the CSM for the Plant Area 3 (LHAAP-047) AOPI, where releases of PFAS-containing wastewater to soil and/or paved surfaces may have occurred.

- PFOA was detected in soil at the Plant Area 3 (LHAAP-047) AOPI. Based on the SI sample results, the soil exposure pathways for on-site workers, on-site recreational users, and off-site receptors are considered to be complete at Plant Area 3.
- PFOS, PFOA, PFBS, and/or PFHxS were detected in groundwater at the AOPIs. Three water supply wells are located within the boundary of the Former LHAAP. None of these wells are used for drinking water or other potable uses at the time of this report. However, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for on-site workers is potentially complete to account for potential future use of the downgradient on-site groundwater as a potable water source.
- Shallow groundwater originating at the AOPIs may migrate outside the boundary of the Former LHAAP, where groundwater may be used as a potable water source. Therefore, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for off-site receptors is potentially complete.
- PFAS originating at the AOPIs may be transported to perennial or intermittent on-site surface water features via surface runoff and/or shallow groundwater discharge. On-site workers and on-site recreational users could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways are potentially complete.
- Surface water originating on the Former LHAAP flows to Caddo Lake, a local drinking water supply and recreational area. Therefore, the surface water exposure pathway for off-site drinking water receptors is potentially complete. Additionally, recreational users using Caddo Lake could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways for off-site receptors are potentially complete.

Figure 7-17 shows the CSM for the Pilot Wastewater Treatment Plant (LHAAP-004), Building 811-1 Hazardous Waste Storage Area (LHAAP-045), and Building 31-W Container Storage Area (LHAAP-009) AOPIs. Wastewater with potentially PFAS-containing material from sumps throughout the Former LHAAP was treated at the Pilot Wastewater Treatment Plant (LHAAP-004) AOPI. There is a potential for historical spills to the ground surface; however, soil at this AOPI has been excavated and transported offsite. Potential releases of PFAS-containing materials to soil and/or paved surfaces may have occurred at the Building 811-1 Hazardous Waste Storage Area (LHAAP-045) and Building 31-W Container Storage Area (LHAAP-009) AOPIs. However, PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in soil and groundwater samples collected at these three AOPIs. Based on the SI sample results, the soil, groundwater, surface water, and sediment exposure pathways are incomplete for all potential receptors.

Figure 7-18 shows the CSM for the Former Waste Disposal Facility (LHAAP-050) AOPI. This AOPI historically contained an aboveground storage tank that received industrial wastewater from various industrial waste production sumps throughout the Former LHAAP. After the solids were settled out, the storage tank contents were discharged directly into Goose Prairie Creek. Although soil around these tanks has been excavated and transported offsite, SI soil samples were collected from elevated portions of the Goose Prairie Creek bed, where residuals of discharged wastes may still remain.

- PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in soil at the Former Waste Disposal Facility (LHAAP-050) AOPI. Based on the SI sample results, the soil exposure pathways for on-site workers, on-site recreational users, and off-site receptors are incomplete.
- PFOA was detected in groundwater at the AOPI. Three water supply wells are located within the boundary of the Former LHAAP. None of these wells are used for drinking water or other potable uses at the time of this report. However, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for on-site workers is potentially complete to account for potential future use of the downgradient on-site groundwater as a potable water source.
- Shallow groundwater originating at the AOPIs may migrate outside the boundary of the Former LHAAP, where groundwater may be used as a potable water source. Therefore, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for off-site receptors is potentially complete.
- Wastewater potentially containing PFOS, PFOA, PFBS, PFNA, and/or PFHxS as historically discharged to Goose Creek. On-site workers and on-site recreational users could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways are potentially complete.
- Surface water originating on the Former LHAAP flows to Caddo Lake, a local drinking water supply and recreational area. Therefore, the surface water exposure pathway for off-site drinking water receptors is potentially complete. Additionally, recreational users using Caddo Lake could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways for off-site receptors are potentially complete.

Figure 7-19 shows the CSM for the Burning Ground No. 3 (LHAAP-018) AOPI. At the Burning Ground No. 3 (LHAAP-018) AOPI, PFAS-containing waste may have been treated, stored, and/or disposed.

- PFOS, PFOA, PFBS, PFNA, and PFHxS were not detected in soil at the AOPI. Based on the SI sample results, the soil exposure pathways for on-site workers, on-site recreational users, and off-site receptors are incomplete.
- PFOA was detected in groundwater at the AOPIs. Three water supply wells are located within the boundary of the Former LHAAP. None of these wells are used for drinking water or other potable uses at the time of this report. However, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for on-site workers is potentially complete to account for potential future use of the downgradient on-site groundwater as a potable water source.
- Shallow groundwater originating at the AOPIs may migrate outside the boundary of the Former LHAAP, where groundwater may be used as a potable water source. Therefore, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for off-site receptors is potentially complete.
- PFAS originating at the AOPIs may be transported to perennial or intermittent on-site surface water features via surface runoff and/or shallow groundwater discharge. Additionally, groundwater from Burning Ground No. 3 (LHAAP-018) is conveyed to the GWTP, which releases into Harrison Bayou and subsequently Caddo Lake. On-site workers and on-site recreational users could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways are potentially complete.
- Surface water originating on the Former LHAAP flows to Caddo Lake, a local drinking water supply and recreational area. Therefore, the surface water exposure pathway for off-site drinking

water receptors is potentially complete. Additionally, recreational users using Caddo Lake could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways for off-site receptors are potentially complete.

Figure 7-20 shows the CSM for the Unlined Evaporation Pond (LHAAP-024) AOPI, which historically received PFAS-containing wastewater.

- Soil samples were not collected from this AOPI. The evaporation pond was closed in 1985 when the water was pumped out and sent for disposal at a deep, off-site permitted waste injection well, and sludge was removed and disposed offsite. In 1997, soil at the Unlined Evaporation Pond AOPI was excavated and thermally treated. Therefore, the soil exposure pathways for all potential human receptors are considered to be incomplete.
- PFOS, PFOA, PFBS, and/or PFHxS were detected in groundwater at the AOPI. Three water supply wells are located within the boundary of the Former LHAAP. None of these wells are used for drinking water or other potable uses at the time of this report. However, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for on-site workers is potentially complete to account for potential future use of the downgradient on-site groundwater as a potable water source.
- Shallow groundwater originating at the AOPI may migrate outside the boundary of the Former LHAAP, where groundwater may be used as a potable water source. Therefore, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for off-site receptors is potentially complete.
- PFAS originating at the AOPI may be transported to perennial or intermittent on-site surface water features via surface runoff and/or shallow groundwater discharge. Groundwater at the AOPI is conveyed to the GWTP, which releases into Harrison Bayou and subsequently Caddo Lake. On-site workers and on-site recreational users could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways are potentially complete.
- Surface water originating on the Former LHAAP flows to Caddo Lake, a local drinking water supply and recreational area. Therefore, the surface water exposure pathway for off-site drinking water receptors is potentially complete. Additionally, recreational users using Caddo Lake could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways for off-site receptors are potentially complete.

Figure 7-21 shows the CSM for the Landfill 12 (LHAAP-012) and Landfill 16 (LHAAP-016) AOPIs, where PFAS-containing materials may have been disposed.

- Soil samples were not collected from these two AOPIs. The landfills are capped to prevent erosion and redistribution of landfill materials and human exposure. Therefore, the soil exposure pathways for all potential human receptors are considered to be incomplete.
- PFOS, PFOA, PFBS, and/or PFHxS were detected in groundwater at the AOPIs. Three water supply wells are located within the boundary of the Former LHAAP. None of these wells are used for drinking water or other potable uses at the time of this report. However, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for on-site workers is potentially complete to account for potential future use of the downgradient on-site groundwater as a potable water source.

- Shallow groundwater originating at the AOPIs may migrate outside the boundary of the Former LHAAP, where groundwater may be used as a potable water source. Therefore, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for off-site receptors is potentially complete.
- PFAS originating at the AOPIs may be transported to perennial or intermittent on-site surface water features via surface runoff and/or shallow groundwater discharge. Groundwater from Landfill 16 (LHAAP-016) was historically conveyed to the GWTP, however ceased conveyance in September 2019. On-site workers and on-site recreational users could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways are potentially complete.
- Surface water originating on the Former LHAAP flows to Caddo Lake, a local drinking water supply and recreational area. Therefore, the surface water exposure pathway for off-site drinking water receptors is potentially complete. Additionally, recreational users using Caddo Lake could contact constituents in surface water and sediment through incidental ingestion and dermal contact; therefore, these exposure pathways for off-site receptors are potentially complete.

Following the SI sampling, nine out of the twelve AOPIs were considered to have complete or potentially complete exposure pathways. Although the CSMs indicate complete or potentially complete exposure pathways may exist, the recommendation for remedial investigation is based on the comparison of analytical results for PFOS, PFOA, PFBS, PFNA, and PFHxS to the OSD risk screening levels (**Table 6-2**).

8 CONCLUSIONS AND RECOMMENDATIONS

The PFAS PA/SI included two distinct efforts. The PA identified AOPIs at the Former LHAAP based on the use, storage, and/or disposal of PFAS-containing materials, in accordance with the 2018 Army Guidance for Addressing Releases of Per-and Polyfluoroalkyl Substances (Army 2018). The SI included multi-media sampling at AOPIs to determine whether or not a release of PFOS, PFOA, PFBS, PFNA, and PFHxS to the environment occurred.

OSD provided residential risk screening levels based on the USEPA oral reference dose for PFOS, PFOA, PFBS, PFNA, and PFHxS in soil and groundwater (tap water) and industrial/commercial risk screening levels for PFOS, PFOA, PFBS, PFNA, and PFHxS in soil (**Appendix A**). A combination of document review, internet searches, interviews with former installation personnel, and a site visit were used to identify specific areas of suspected PFOS, PFOA, PFBS, PFNA, and PFHxS use, storage, and/or disposal at the Former LHAAP. Following the evaluation, 12 AOPIs were identified.

At the time of this report there are no current potable water supply sources located within the boundary of the Former LHAAP that are in use. Three previously used water supply wells are located within the boundary of the Former LHAAP but do not supply potable water. Potable water is supplied by the off-site Caddo Lake Water Supply Corporation Well 3.

All AOPIs were sampled during the SI at the Former LHAAP to identify presence or absence of PFOS, PFOA, PFBS, PFNA, and PFHxS at each AOPI. Of the six PFAS compounds presented in the 06 July 2022 OSD memorandum, HFPO-DA (commonly referred to as GenX) was not included as an analyte at the time of this SI. Based on the CSM developed during the PA and revised based on SI findings, the presence of HFPO-DA is not anticipated at the Former LHAAP because HFPO-DA is generally not a component of MIL-SPEC AFFF and based on its history including distribution limitations that restricted use of GenX, it is generally not a component of other products the military used. In addition, it is unlikely that GenX would be an individual chemical of concern in the absence of other PFAS. The SI scope of work was completed in accordance with the Final PQAPP (Arcadis 2019) and the Former LHAAP QAPP Addendum (Arcadis 2022).

Nine AOPIs had detections of PFOS, PFOA, PFBS, PFNA, and PFHxS in groundwater and/or soil, and eight AOPIs exceeded OSD risk screening levels. The maximum concentrations of PFOS, PFOA, PFBS, PFNA, and PFHxS detected in soil and groundwater are summarized below by media.

Groundwater

PFOS was detected at 42 ng/L, above the OSD risk screening level for tap water (4 ng/L), in sample LHAAP-MW3-111622 at the Unlined Evaporation Pond (LHAAP-024) AOPI.

PFOA was detected at 620 ng/L, above the OSD risk screening level for tap water (6 ng/L), in sample LHAAP-16WW13-111622 at the Landfill 16 (LHAAP-016) AOPI.

PFBS was detected at 11 ng/L, below the OSD risk screening level for tap water (601 ng/L), in sample LHAAP-MW2-111622 at the Unlined Evaporation Pond (LHAAP-024) AOPI.

PFNA was detected at 700 ng/L, above the OSD risk screening level for tap water (6 ng/L), in sample LHAAP-LHSMW01-111122 at the Old and New Fire Stations (Buildings 709 and 710) AOPI.

PFHxS was detected at 5.7 ng/L, below the OSD risk screening level for tap water (39 ng/L), in sample LHAAP-ONFS-GW-02-111622 at the Old and New Fire Stations (Buildings 709 and 710) AOPI.

Soil

PFOS was detected at 0.0013 mg/kg, below the residential OSD risk screening level for soil (0.013 mg/kg), in sample LHAAP-ONFS-SO-02-111522 at the Old and New Fire Stations (Buildings 709 and 710) AOPI.

PFOA was detected at 0.0014 mg/kg, below the residential OSD risk screening level for soil (0.019 mg/kg), in sample LHAAP-PA3-SO-04-110922 at the Plant Area 3 (LHAAP-047) AOPI.

PFNA was detected at 0.0022 mg/kg, below the residential OSD risk screening level for soil (0.019 mg/kg), in sample LHAAP-ONFS-SO-06-110822 at the Old and New Fire Stations (Buildings 709 and 710) AOPI.

PFBS and PFHxS were not detected in any of the soil samples collected.

Following the SI sampling, all nine AOPIs with confirmed PFOS, PFOA, PFBS, PFNA, and/or PFHxS presence were considered to have complete or potentially complete exposure pathways. Soil exposure pathways for on-site workers, on-site recreational users, and off-site receptors (i.e., visitors to the USFWS property who are not necessarily engaging in recreational activities) are complete at two AOPIs. Although there are no drinking water wells at the Former LHAAP at the time of this report, the groundwater exposure pathway (via drinking water ingestion and dermal contact) for on-site workers is potentially complete at nine AOPIs to account for potential future use of the downgradient on-site groundwater as a potable water source. Due to a lack of land use controls off-site and downgradient of the Former LHAAP, the groundwater exposure pathway for off-site receptors is also potentially complete at nine AOPIs. Surface water is not used for drinking water at the Former LHAAP; however, on-site workers, on-site recreational users, and off-site receptors could contact constituents in surface water and sediment via incidental ingestion and dermal contact. Therefore, the surface water and sediment exposure pathways are potentially complete.

Although the CSMs indicate complete or potentially complete exposure pathways may exist, the recommendation for future study in a remedial investigation or no action at this time is based on the comparison of the SI analytical results for PFOS, PFOA, PFBS, PFNA, and PFHxS to the OSD risk screening levels (**Table 6-2**). **Table 8-1**, below, summarizes the AOPIs identified at the Former LHAAP, PFOS, PFOA, PFBS, PFNA, and PFHxS sampling and recommendations for each AOPI; further investigation is warranted at the Former LHAAP. In accordance with CERCLA, site-specific risk will be assessed during a future phase to evaluate whether remedial actions are required.

Table 8-1 Summary of AOPIs Identified during the PA, PFOS, PFOA, PFBS, PFNA, and PFHxS Sampling at Former Longhorn Army Ammunition Plant, and Recommendations

AOPI Name	PFOS, PFOA, PFBS, PFNA, and/or PFHxS detected greater than OSD Risk Screening Levels? (Yes/No/ND/NS)		Recommendation
	GW	SO	
Old and New Fire Stations (Buildings 709 and 710)	Yes	No	Further study in a remedial investigation
Building 744-A Vehicle Wash Rack (LHAAP-056)	No	ND	No further action at this time
Plant Area 2 (LHAAP-046)	Yes	ND	Further study in a remedial investigation
Plant Area 3 (LHAAP-047)	Yes	No	Further study in a remedial investigation
Pilot Wastewater Treatment Plant (LHAAP-004)	ND	ND	No further action at this time
Former Waste Disposal Facility (LHAAP-050)	Yes	ND	Further study in a remedial investigation
Building 811-1 Hazardous Waste Storage Area (LHAAP-045)	ND	ND	No further action at this time
Building 31-W Container Storage Area (LHAAP-009)	ND	ND	No further action at this time
Burning Ground No. 3 (LHAAP-018)	Yes	ND	Further study in a remedial investigation
Unlined Evaporation Pond (LHAAP-024)	Yes	NS	Further study in a remedial investigation
Landfill 12 (LHAAP-012)	Yes	NS	Further study in a remedial investigation
Landfill 16 (LHAAP-016)	Yes	NS	Further study in a remedial investigation

Notes:
Light gray shading – detection greater than the OSD risk screening level
GW – groundwater
ND – non-detect
No – detection less than the OSD risk screening level
NS – not sampled
SO – soil

Data collected during the PA (**Sections 3** through **5**) and SI (**Sections 6** and **7**) were sufficient to draw conclusions and recommendations summarized above. The data limitations relevant to the development of this PA/SI for PFOS, PFOA, PFBS, PFNA, and PFHxS at the Former LHAAP are discussed below.

Available records were gathered for the use, storage and/or disposal of PFAS-containing materials and reviewed during the PA process. Documentation specific to AFFF may have been limited (e.g., each

AFFF use; procurement records, documentation of AFFF used during crash responses or fire training activities) due to lack of recordkeeping requirements for the full timeline of common AFFF practices. Anecdotal accounts of AFFF use (and therefore likely PFOS, PFOA, PFBS, PFNA, and PFHxS use) were limited to available former installation personnel, whose knowledge of AFFF use may have been restricted by their time spent at the former installation or previous roles held that limited their relevant knowledge of potential AFFF (or other PFAS-containing material) use.

A comprehensive well survey was not completed as part of this PA; therefore, the information reviewed regarding off-post wells is limited to what is contained in the off post well search results (**Appendix C**).

The searches for ecological receptors and off-post PFOS, PFOA, PFBS, PFNA, and PFHxS sources were not exhaustive and were limited to easily identifiable and readily available information evaluated during the relevant documents research, former installation personnel interviews, and site reconnaissance.

Finally, the available PFOS, PFOA, PFBS, PFNA, and PFHxS analytical data are limited to historical analytical results collected from the GWTP and results from groundwater samples and surface soil samples from twelve AOPIs collected during this SI. Available data, including PFOS, PFOA, PFBS, PFNA, and PFHxS, are listed in **Appendix M**, which were analyzed per the selected analytical method. HFPO-DA was not in the suite of PFAS compounds analyzed during the SI at the Former LHAAP; therefore, there are no HFPO-DA SI analytical results to screen against the 2022 OSD risk screening levels.

Results from this PA/SI indicate further study in a remedial investigation is warranted at the Former LHAAP in accordance with the guidance provided by the OSD.

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ACRONYMS

°F	degrees Fahrenheit
%	percent
AFFF	aqueous film-forming foam
AOPI	area of potential interest
Arcadis	Arcadis U.S., Inc.
Army	United States Army
bgs	below ground surface
BRAC	Base Realignment and Closure
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CSM	conceptual site model
DEB	dedicated equipment background
DoD	Department of Defense
DPT	direct push technology
DQO	data quality objective
DUSR	Data Usability Summary Report
EB	equipment blank
EDR	Environmental Data Resources, Inc.
ELAP	Environmental Laboratory Accreditation Program
ESA	Environmental Site Assessment
FCR	field change report
GIS	geographic information system
GWTP	Groundwater Treatment Plant
HFPO-DA	hexafluoropropylene oxide dimer acid
IDW	investigation-derived waste
installation	United States Army or Reserve installation
IR	infrared
IRP	Installation Restoration Program
LHAAP	Longhorn Army Ammunition Plant
LOD	limit of detection

LOQ	limit of quantitation
mg/kg	milligrams per kilogram (parts per million)
MIL-SPEC	military specification
ng/L	nanograms per liter (parts per trillion)
NWR	National Wildlife Refuge
OSD	Office of the Secretary of Defense
PA	preliminary assessment
PCTFE	polychlorotrifluoroethylene
PFAS	per- and polyfluoroalkyl substances
PFBS	perfluorobutanesulfonic acid
PFHxS	perfluorohexane sulfonate
PFNA	perfluorononanoic acid
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonate
POC	point of contact
ppm	parts per million
ppt	parts per trillion
PQAPP	Programmatic Uniform Federal Policy-Quality Assurance Project Plan
PTFE	polytetrafluoroethylene
PWS	Public Water System
QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
QSM	Quality Systems Manual
RSL	Regional Screening Level
SI	site inspection
SOP	standard operating procedure
SSHP	Site Safety and Health Plan
STP	sewage treatment plant
TGI	technical guidance instruction
TNT	trinitrotoluene

TOC	total organic carbon
U.S.	United States
USACE	United States Army Corps of Engineers
USAEC	United States Army Environmental Command
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service

TABLES

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Table 2-1
Historical PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results
USAEC PFAS Preliminary Assessment/Site Inspection Report
Former Longhorn Army Ammunition Plant, Texas

			PFOS (ng/L)		PFOA (ng/L)		PFBS (ng/L)		PFNA (ng/L)		PFHxS (ng/L)	
		Screening Criteria[1]	4		6		601		6		39	
Sample ID	Sample Type	Sample Date	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
LHAAP_GWTP_PFAS_SP140	N	7/20/2021	**13.1**		**9.5**		4.0	U	4.0	U	4.0	U
LHAAP_GWTP_PFAS_SP140_FD	FD	7/20/2021	**13.0**		**9.5**		4.0	U	4.0	U	4.0	U
LHAAP_GWTP_PFAS_SP650	N	7/20/2021	**25.7**		**39.3**		4.0	U	4.0	U	**5.5**	J
LHAAP_GWTP_PFAS_SP650_FD	FD	7/20/2021	**27.0**		**39.3**		**3.3**	J	4.0	U	**6.0**	J
200721AB01	Ambient Blank	7/20/2021	4.0	U	4.0	U	4.0	U	4.0	U	4.0	U

Notes:
1. **Bolded** values indicate the result was detected greater than the limit of detection.
2. Gray shaded values indicate the result was detected greater than the 2022 Office of the Secretary of Defense (OSD) risk screening levels, (OSD. 2022. Memorandum: Investigating Per- and Polyfluoroalkyl Substances within the Department of Defense Cleanup Program. July).

Acronyms/Abbreviations:
FD = field duplicate sample
GWTP = Groundwater Treatment Plant
LHAAP = Longhorn Army Ammunition Plant
N = parent sample
ng/L = nanograms per liter (parts per trillion)
PA/SI = Preliminary Assessment/Site Inpsection
PFAS = per- and polyfluoroalkyl substances
PFBS = perfluorobutanesulfonic acid
PFHxS = perfluorohexane sulfonic acid
PFNA = perfluorononanoic acid
PFOA = perfluorooctanoic acid
PFOS = perfluorooctane sulfonate
Qual = qualifier

Sources:
2021. Draft LHAAP Perchlorate & PFAS Sampling Summary Report. August 20.

Qualifier	Description
J	The analyte was positively identified; however the associated numerical value is an estimated concentration
U	Not detected at or above the detection limit

Table 6-1 Monitoring Well Construction Details
USAEC PFAS Preliminary Assessment/Site Inspection
Former Longhorn Army Ammunition Plant, Texas

Area of Potential Interest	Sampling Location ID	Zone (Shallow / Intermediate)	Total Well Depth (ft btoc)	MP Elevation (ft amsl)	MP	Depth to Groundwater from MP (ft)	Groundwater Elevation (ft amsl)	Screened Interval (ft btoc)	Dedicated Bladder Pump (Y/N)
Old and New Fire Stations (Buildings 709 and 710)	LHSMW01	Shallow	19.10	214.43	TOC	13.53	201.9	7.18 - 17.18	N
Building 744-A Vehicle Wash Rack (LHAAP-056)	35AWW06	Shallow	NM	220.43	TOC	18.45	202.0	19.05 - 29.05	N
	35AWW16	Shallow	NM	220.88	TOC	16.68	204.2	21.75 - 36.45	N
	35AWW20	Shallow	NM	223.05	TOC	18.65	204.4	20.94 - 35.64	N
Plant Area 2 (LHAAP-046)	LHSMW19	Shallow	30.16	212.96	TOC	25.35	187.6	19.76 - 29.76	N
	LHSMW21	Shallow	30.01	207.67	TOC	21.30	186.4	19.61 - 29.61	N
	LHSMW23R	Intermediate	43.09	208.84	TOC	35.90	172.9	23.09 - 43.09	N
	LHSMW25	Intermediate	42.5	201.97	TOC	31.22	170.8	22.10 - 42.10	N
	46WW06	Intermediate	50.6	213.84	TOC	41.77	172.1	40.6 - 50.6	N
Plant Area 3 (LHAAP-047)	35BWW07	Shallow	28	203.53	TOC	22.73	178.3	18 - 28	N
	47WW19	Intermediate	64.46	198.93	TOC	25.7	173.2	NA	N
	47WW48	Shallow	36.25	208.02	TOC	30.52	177.5	22 - 32	N
	47WW49	Shallow	31.7	207.31	TOC	30.21	177.1	19 - 29	N
	LHSMW41	Shallow/Intermediate	38.1	199.85	TOC	27.10	172.75	NA	N
	LHSMW44	Shallow	39.34	200.36	TOC	27.05	173.31	NA	N
	LHSMW54	Intermediate	45.45	191.08	TOC	20.22	170.86	NA	N
Pilot Wastewater Treatment Plant (LHAAP-004)	04WW01	Shallow	27.22	212.51	TOC	27.22	203.01	16.73 - 26.73	N
	04WW07	Shallow	22.63	214.64	TOC	8.39	206.25	12.98 - 22.98	N
	04WW08	Intermediate	43.65	214.82	TOC	16.63	198.19	33.75 - 43.75	N
Former Waste Disposal Facility (LHAAP-050)	50WW12	Shallow	35.15	195.66	TOC	18.93	176.73	22.5 - 37	N
	50WW13	Shallow	38.79	197.45	TOC	20.12	177.33	22.44 - 36.94	N
Unlined Evaporation Pond (LHAAP-024)	MW1	NR	NM	199.22	TOC	26.91	172.62	NA	N
	MW2	NR	NM	196.73	TOC	26.04	170.43	NA	N
Burning Ground No. 3 (LHAAP-018)	MW3	NR	NM	196.54	TOC	25.29	172.76	NA	N
	MW23	NR	NM	198.79	TOC	25.94	172.85	NA	N
	120	NR	NM	184.19	TOC	11.54	172.65	NA	N
	18CPTMW04	NR	NM	190.6	TOC	24.21	172.39	NA	N
	18CPTMW23	NR	NM	177.47	TOC	7.63	169.84	NA	N
Landfill 12 (LHAAP-012)	12WW01	Shallow	26.5	204.19	TOC	22.10	182.09	14.50 - 26.50	N
	12WW02	Shallow	28.5	202.45	TOC	20.50	181.95	13.50 - 28.50	N
	12WW24	Shallow	26.00	203.17	TOC	21.10	182.07	15.50 - 25.50	N
Landfill 16 (LHAAP-016)	16WW13	Intermediate	26.73	178.47	TOC	2.86	175.61	16.73 - 26.73	N
	16WW16	Shallow	31.62	196.64	TOC	20.47	175.17	21.62 - 31.62	N
	16WW36	Shallow	24.49	190.94	TOC	16.02	174.92	19.49 - 29.49	N

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Table 6-1 Monitoring Well Construction Details
USAEC PFAS Preliminary Assessment/Site Inspection
Former Longhorn Army Ammunition Plant, Texas

Notes:
* Groundwater depth based on most recently identified gauging information where well was not dry. An attempt was made to sample previously dry wells. If dry, sampling of nearby monitoring wells was attemped.

Acronyms/Abreviations:
amsl - above mean sea level
btoc - below top of casing
ft - feet
ID - identification
MP - measuring point
N - no
NA - not available
NM - not measured (not surveyed)
NR - not recorded
TOC - top of casing
Y - yes

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Table 7-1 Groundwater PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results
USAEC PFAS Preliminary Assessment/Site Inspection
Former Longhorn Army Ammuntion Plant, Texas

AOPI	Location	Sample/ Duplicate ID	Sample Date	Analyte	PFOS (ng/L)		PFOA (ng/L)		PFBS (ng/L)		PFNA (ng/L)		PFHxS (ng/L)	
				OSD Tapwater Risk Screening Level	4		6		601		6		39	
				Sample Type	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Old and New Fire Stations (Buildings 709 and 710)	LHAAP-LHSMW01	LHAAP-LHSMW01-111122	11/11/2022	N	**4.8**		**29**		3.5	U	**700**		**5.2**	
	LHAAP-ONFS-GW-01	LHAAP-ONFS-GW-01-112822	11/28/2022	N	**11**	J+	**25**		3.4	U	**5.6**		3.4	U
	LHAAP-ONFS-GW-02	LHAAP-ONFS-GW-02-111622	11/16/2022	N	4.3	U	**160**		**6.5**		**18**		**5.7**	
	LHAAP-ONFS-GW-03	LHAAP-ONFS-GW-03-111622	11/16/2022	N	**4.4**		**33**		**2.2**	J	**24**		**2.2**	J
	LHAAP-ONFS-GW-04	LHAAP-ONFS-GW-04-112822	11/28/2022	N	3.5	U	**17**		3.5	U	3.5	U	3.5	U
Building 744-A Vehicle Wash Rack (LHAAP-056)	LHAAP-35AWW06	LHAAP-35AWW06-111422	11/14/2022	N	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
			11/14/2022	FD	3.5	U	3.5	U	3.5	U	3.5	U	3.5	U
	LHAAP-35AWW16	LHAAP-35AWW16-111122	11/11/2022	N	3.4	U	3.4	U	3.4	U	3.4	U	3.4	U
	LHAAP-35AWW20	LHAAP-35AWW20-111122	11/11/2022	N	3.7	U	**2.3**	J	3.7	U	3.7	U	3.7	U
Plant Area 2 (LHAAP-046)	LHAAP-46WW02	LHAAP-46WW02-113022	11/30/2022	N	**17**		**29**		3.8	U	3.8	U	**4.4**	
	LHAAP-46WW06	LHAAP-46WW06-112822	11/28/2022	N	3.6	U	3.6	U	3.6	U	3.6	U	3.6	U
	LHAAP-LHSMW19	LHAAP-LHSMW19-111222	11/12/2022	N	**2.6**	J	3.9	U	**2.6**	J	3.9	U	3.9	U
	LHAAP-LHSMW21	LHAAP-LHSMW21-111222	11/12/2022	N	3.9	U	3.9	U	3.9	U	3.9	U	3.9	U
	LHAAP-LHSMW23R	LHAAP-LHSMW23R-112822	11/28/2022	N	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U
	LHAAP-LHSMW25	LHAAP-LHSMW25-112822	11/28/2022	N	3.5	U	3.5	U	3.5	U	3.5	U	3.5	U
Plant Area 3 (LHAAP-047)	LHAAP-LHSMW41	LHAAP-LHSMW41-112922	11/29/2022	N	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
	LHAAP-LHSMW44	LHAAP-LHSMW44-112922	11/29/2022	N	3.6	U	3.6	U	3.6	U	3.6	U	3.6	U
	LHAAP-LHSMW45	LHAAP-LHSMW45-113022	11/30/2022	N	3.9	U	3.9	U	3.9	U	3.9	U	3.9	U
	LHAAP-LHSMW54	LHAAP-LHSMW54-112922	11/29/2022	N	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
			11/29/2022	FD	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U
	LHAAP-LHSMW56R	LHAAP-LHSMW56R-112922	11/29/2022	N	3.6	U	**85**		3.6	U	3.6	U	3.6	U
	LHAAP-35BWW07	LHAAP-35BWW07-112922	11/29/2022	N	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
			11/29/2022	FD	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
	LHAAP-47WW19	LHAAP-47WW19-113022	11/30/2022	N	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
	LHAAP-47WW42	LHAAP-47WW42-113022	11/30/2022	N	3.7	U	**6.2**		3.7	U	3.7	U	3.7	U
			11/30/2022	FD	3.8	U	**5.3**		3.8	U	3.8	U	3.8	U
	LHAAP-47WW48	LHAAP-47WW48-112922	11/29/2022	N	3.6	U	**2.5**	J	3.6	U	3.6	U	3.6	U
	LHAAP-47WW49	LHAAP-47WW49-113022	11/30/2022	N	5.4	U	5.4	U	5.4	U	5.4	U	5.4	U

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Table 7-1 Groundwater PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results
USAEC PFAS Preliminary Assessment/Site Inspection
Former Longhorn Army Ammuntion Plant, Texas

AOPI	Location	Sample/ Duplicate ID	Sample Date	Analyte	PFOS (ng/L)		PFOA (ng/L)		PFBS (ng/L)		PFNA (ng/L)		PFHxS (ng/L)	
				OSD Tapwater Risk Screening Level	4		6		601		6		39	
				Sample Type	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Pilot Wastewater Treatment Plant (LHAAP-004)	LHAAP-04WW01	LHAAP-04WW01-111122	11/11/2022	N	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U
	LHAAP-04WW07	LHAAP-04WW07-111122	11/11/2022	N	3.6	U	3.6	U	3.6	U	3.6	U	3.6	U
	LHAAP-04WW08	LHAAP-04WW08-010523	1/5/2023	N	3.9	U	3.9	U	3.9	U	3.9	U	3.9	U
Former Waste Disposal Facility (LHAAP-050)	LHAAP-50WW12	LHAAP-50WW12-111422	11/14/2022	N	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
	LHAAP-50WW13	LHAAP-50WW13-111422	11/14/2022	N	3.4	U	**22**		3.4	U	3.4	U	3.4	U
Building 811-1 Hazardous Waste Storage Area (LHAAP-045)	LHAAP-HWSA-GW-01	LHAAP-HWSA-GW-01-112922	11/29/2022	N	4.0	UJ	4.0	UJ	4.0	UJ	4.0	UJ	4.0	UJ
			11/29/2022	FD	5.3	UJ	5.3	UJ	5.3	UJ	5.3	UJ	5.3	UJ
Building 31-W Container Storage Area (LHAAP-009)	LHAAP-CSA-GW-01	LHAAP-CSA-GW-01-112922	11/29/2022	N	3.8	U	3.8	U	3.8	U	3.8	U	3.8	U
			11/29/2022	FD	3.7	U	3.7	U	3.7	U	3.7	U	3.7	U
Burning Ground No. 3 (LHAAP-018)	LHAAP-120	LHAAP-120-111522	11/15/2022	N	**3.4**	J	**7.1**		3.8	U	3.8	U	3.8	U
	LHAAP-18CPTMW04	LHAAP-18CPTMW04-111622	11/16/2022	N	**2.8**	J-	**22**	J-	**3.5**	J-	3.7	UJ-	**2.4**	J-
	LHAAP-18CPTMW23	LHAAP-18CPTMW23-111522	11/15/2022	N	3.5	U	**5.2**		3.5	U	3.5	U	3.5	U
Unlined Evaporation Pond (LHAAP-024)	LHAAP-MW1	LHAAP-MW1-111522	11/15/2022	N	**2.9**	J	**23**		**9.5**		3.5	U	**2.2**	J
	LHAAP-MW2	LHAAP-MW2-111622	11/16/2022	N	**29**		**24**		**11**		3.3	U	**5.3**	
	LHAAP-MW3	LHAAP-MW3-111622	11/16/2022	N	**42**		**9.3**		**1.9**	J	3.8	U	**5.6**	
Landfill 12 (LHAAP-012)	LHAAP-12WW01	LHAAP-12WW01-111522	11/15/2022	N	3.5	U	**17**		3.5	U	3.5	U	3.5	U
	LHAAP-12WW02	LHAAP-12WW02-111522	11/15/2022	N	3.5	U	**3.8**		3.5	U	3.5	U	3.5	U
	LHAAP-12WW24	LHAAP-12WW24-111622	11/16/2022	N	3.5	UJ-	**10**	J-	3.5	UJ-	3.5	UJ-	3.5	UJ-
Landfill 16 (LHAAP-016)	LHAAP-16WW13	LHAAP-16WW13-111622	11/16/2022	N	**8.2**		**620**		3.6	U	3.6	U	**4.6**	
	LHAAP-16WW16	LHAAP-16WW16-111622	11/16/2022	N	3.8	U	**2.1**	J	3.8	U	3.8	U	3.8	U
	LHAAP-16WW36	LHAAP-16WW36-111622	11/16/2022	N	40	U	**95**		40	U	40	U	40	U

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Table 7-1 Groundwater PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results
USAEC PFAS Preliminary Assessment/Site Inspection
Former Longhorn Army Ammuntion Plant, Texas

Notes:
1. **Bolded** values indicate the result was detected greater than the limit of detection.
2. Gray shaded values indicate the result was detected greater than the 2022 Office of the Secretary of Defense (OSD) risk screening levels, (OSD. 2022. Memorandum: Investigating Per- and Polyfluoroalkyl Substances within the Department of Defense Cleanup Program. July).

Acronyms/Abbreviations:
-- = not applicable
AOPI = area of potential interest
FD = field duplicate sample
ID = identification
N = primary sample
ng/L = nanograms per liter (parts per trillion)
PFAS = per- and polyfluoroalkyl substances
PFBS = perfluorobutanesulfonic acid
PFOA = perfluorooctanoic acid
PFOS = perfluorooctane sulfonate
PFNA = perfluorononanoic acid
PFHxS = perfluorohexane sulfonate
Qual = qualifier

Qualifier	Description
J	The analyte was positively identified; however the associated numerical value is an estimated concentration only.
J-	The result is an estimated quantity; the result may be biased low.
J+	The result is an estimated quantity; the result may be biased high.
U	The analyte was analyzed for but the result was not detected above the limit of quantitation (LOQ).
UJ	The analyte was analyzed for but was not detected. The reported limit of quantitation (LOQ) is approximate and may be inaccurate or imprecise.
UJ-	The analyte was analyzed for but was not detected. The reported limit of quantitation (LOQ) is approximate and may be inaccurate or imprecise.

Table 7-2 Soil PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results
USAEC PFAS Preliminary Assessment/Site Inspection
Former Longhorn Army Ammuntion Plant, Texas

AOPI	Location	Sample ID / Duplicate ID	Sample Date	Analyte	PFOS (mg/kg)		PFOA (mg/kg)		PFBS (mg/kg)		PFNA (mg/kg)		PFHxS (mg/kg)	
				OSD Industrial / Commercial Risk Screening Level	0.16		0.25		25		0.25		1.6	
				OSD Residential Risk Screening Level	0.013		0.019		1.9		0.019		0.13	
				Sample Type	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Old and New Fire Stations (Buildings 709 and 710)	LHAAP-ONFS-SO-01	LHAAP-ONFS-SO-01-111522	11/15/2022	N	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
	LHAAP-ONFS-SO-02	LHAAP-ONFS-SO-02-111522	11/15/2022	N	**0.0013**		0.0010	U	0.0010	U	0.0010	U	0.0010	U
	LHAAP-ONFS-SO-03	LHAAP-ONFS-SO-03-111522	11/15/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-ONFS-SO-04	LHAAP-ONFS-SO-04-111522	11/15/2022	N	0.00096	U	0.00096	U	0.00096	U	0.00096	U	0.00096	U
	LHAAP-ONFS-SO-05	LHAAP-ONFS-SO-05-110822	11/08/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-ONFS-SO-06	LHAAP-ONFS-SO-06-110822	11/08/2022	N	0.0010	U	0.0010	U	0.0010	U	**0.0022**		0.0010	U
Building 744-A Vehicle Wash Rack (LHAAP-056)	LHAAP-VWR-SO-01	LHAAP-VWR-SO-01-110822	11/08/2022	N	0.0010	U	0.0010	U	0.0010	U	0.0010	U	0.0010	U
	LHAAP-VWR-SO-02	LHAAP-VWR-SO-02-110822	11/08/2022	N	0.00096	U	0.00096	U	0.00096	U	0.00096	U	0.00096	U
		LHAAP-FD-1-SO-110822	11/08/2022	FD	0.00099	U	0.00099	U	0.00099	U	0.00099	U	0.00099	U
	LHAAP-VWR-SO-03	LHAAP-VWR-SO-03-111422	11/14/2022	N	0.0010	U	0.0010	U	0.0010	U	0.0010	U	0.0010	U
Plant Area 2 (LHAAP-046)	LHAAP-PA2-SO-01	LHAAP-PA2-SO-01-111522	11/15/2022	N	0.0013	U	0.0013	U	0.0013	U	0.0013	U	0.0013	U
	LHAAP-PA2-SO-02	LHAAP-PA2-SO-02-111022	11/10/2022	N	0.0010	U	0.0010	U	0.0010	U	0.0010	U	0.0010	U
	LHAAP-PA2-SO-03	LHAAP-PA2-SO-03-111522	11/15/2022	N	0.00098	U	0.00098	U	0.00098	U	0.00098	U	0.00098	U
	LHAAP-PA2-SO-04	LHAAP-PA2-SO-04-111522	11/15/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-PA2-SO-05	LHAAP-PA2-SO-05-111522	11/15/2022	N	0.0013	U	0.0013	U	0.0013	U	0.0013	U	0.0013	U
	LHAAP-PA2-SO-06	LHAAP-PA2-SO-06-111022	11/10/2022	N	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
	LHAAP-PA2-SO-07	LHAAP-PA2-SO-07-111122	11/11/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-PA2-SO-08	LHAAP-PA2-SO-08-111122	11/11/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-PA2-SO-09	LHAAP-PA2-SO-09-111122	11/11/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-PA2-SO-10	LHAAP-PA2-SO-10-111122	11/11/2022	N	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
	LHAAP-PA2-SO-11	LHAAP-PA2-SO-11-111022	11/10/2022	N	0.0010	U	0.0010	U	0.0010	U	0.0010	U	0.0010	U
	LHAAP-PA2-SO-12	LHAAP-PA2-SO-12-111022	11/10/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-PA2-SO-13	LHAAP-PA2-SO-13-111022	11/10/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
Plant Area 3 (LHAAP-047)	LHAAP-PA3-SO-01	LHAAP-PA3-SO-01-110922	11/09/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-PA3-SO-02	LHAAP-PA3-SO-02-110922	11/09/2022	N	0.00096	U	0.00096	U	0.00096	U	0.00096	U	0.00096	U
	LHAAP-PA3-SO-03	LHAAP-PA3-SO-03-110922	11/09/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-PA3-SO-04	LHAAP-PA3-SO-04-110922	11/09/2022	N	0.0010	U	**0.0014**		0.0010	U	0.0010	U	0.0010	U
		LHAAP-PA3-SO-04-112822	11/28/2022	N	0.0011	U	**0.0011**		0.0011	U	0.0011	U	0.0011	U
	LHAAP-PA3-SO-05	LHAAP-PA3-SO-05-110922	11/09/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-PA3-SO-06	LHAAP-PA3-SO-06-110922	11/09/2022	N	0.00095	U	0.00095	U	0.00095	U	0.00095	U	0.00095	U
	LHAAP-PA3-SO-07	LHAAP-PA3-SO-07-111422	11/14/2022	N	0.00097	U	0.00097	U	0.00097	U	0.00097	U	0.00097	U
	LHAAP-PA3-SO-08	LHAAP-PA3-SO-08-110822	11/08/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-PA3-SO-09	LHAAP-PA3-SO-09-110822	11/08/2022	N	0.00094	U	0.00094	U	0.00094	U	0.00094	U	0.00094	U
		LHAAP-FD-2-SO-110922	11/09/2022	FD	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
	LHAAP-PA3-SO-10	LHAAP-PA3-SO-10-110822	11/08/2022	N	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
	LHAAP-PA3-SO-11	LHAAP-PA3-SO-11-110922	11/09/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-PA3-SO-12	LHAAP-PA3-SO-12-110922	11/09/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U

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Table 7-2 Soil PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results
USAEC PFAS Preliminary Assessment/Site Inspection
Former Longhorn Army Ammuntion Plant, Texas

AOPI	Location	Sample ID / Duplicate ID	Sample Date	Analyte	PFOS (mg/kg)		PFOA (mg/kg)		PFBS (mg/kg)		PFNA (mg/kg)		PFHxS (mg/kg)	
				OSD Industrial / Commercial Risk Screening Level	0.16		0.25		25		0.25		1.6	
				OSD Residential Risk Screening Level	0.013		0.019		1.9		0.019		0.13	
				Sample Type	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Former Waste Disposal Facility (LHAAP-050)	LHAAP-FWDF-SO-01	LHAAP-FWDF-SO-01-111122	11/11/2022	N	0.0010	UJ	0.0010	U	0.0010	U	0.0010	U	0.0010	U
	LHAAP-FWDF-SO-02	LHAAP-FWDF-SO-02-110922	11/09/2022	N	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
	LHAAP-FWDF-SO-03	LHAAP-FWDF-SO-03-110922	11/09/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
Building 811-1 Hazardous Waste Storage Area (LHAAP-045)	LHAAP-HWSA-SO-01	LHAAP-HWSA-SO-01-111222	11/12/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-HWSA-SO-02	LHAAP-HWSA-SO-02-111222	11/12/2022	N	0.0010	U	0.0010	U	0.0010	U	0.0010	U	0.0010	U
	LHAAP-HWSA-SO-03	LHAAP-HWSA-SO-03-111222	11/12/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
Building 31-W Container Storage Area (LHAAP-009)	LHAAP-CSA-SO-01	LHAAP-CSA-SO-01-111422	11/14/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-CSA-SO-02	LHAAP-CSA-SO-02-111422	11/14/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
		LHAAP-FD-3-SO-111422	11/14/2022	FD	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-CSA-SO-03	LHAAP-CSA-SO-03-111422	11/14/2022	N	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
Burning Ground No. 3 (LHAAP-018)	LHAAP-BG3-SO-01	LHAAP-BG3-SO-01-111022	11/10/2022	N	0.0012	U	0.0012	U	0.0012	U	0.0012	U	0.0012	U
	LHAAP-BG3-SO-02	LHAAP-BG3-SO-02-111022	11/10/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-BG3-SO-03	LHAAP-BG3-SO-03-111022	11/10/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-BG3-SO-04	LHAAP-BG3-SO-04-111022	11/10/2022	N	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
	LHAAP-BG3-SO-05	LHAAP-BG3-SO-05-111022	11/10/2022	N	0.00097	U	0.00097	U	0.00097	U	0.00097	U	0.00097	U

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Table 7-2 Soil PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results
USAEC PFAS Preliminary Assessment/Site Inspection
Former Longhorn Army Ammuntion Plant, Texas

Notes:
1. **Bolded** values indicate the result was detected greater than the limit of detection
2. Data are compared to the Office of the Secretary of Defense (OSD) risk screening levels for both the residential as well as the industrial/commercial scenarios (OSD. 2022. Memorandum: Investigating Per- and Polyfluoroalkyl Substances within the Department of Defense Cleanup Program. July).

Acronyms/Abbreviations:
-- = not applicable
AOPI = area of potential interest
FD = field duplicate sample
ID = identification
mg/kg = milligrams per kilogram (parts per million)
N = primary sample
PFAS = per- and polyfluoroalkyl substances
PFBS = perfluorobutanesulfonic acid
PFOA = perfluorooctanoic acid
PFOS = perfluorooctane sulfonate
PFNA = perfluorononanoic acid
PFHxS = perfluorohexane sulfonate
Qual = qualifier

Qualifier	Description
U	The analyte was analyzed for but the result was not detected above the limit of quantitation (LOQ).
UJ	The analyte was analyzed for but was not detected. The reported limit of quantitation (LOQ) is approximate and may be inaccurate or imprecise.

FIGURES

USAEC PFAS
Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, TX

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Figure 2-1
Site Location

Legend

- Former Installation Boundary
- State Boundary
- River/Stream (Perennial)
- Stream (Intermittent)
- Water Body
- United States Fish and Wildlife Service (USFWS) Refuge Area

Data Sources:
USGS, NHD Data, 2021
ESRI ArcGIS Online, StreetMap Data

Coordinate System:
WGS 1984, UTM Zone 15 North

USAEC PFAS
Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, TX

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Figure 2-2
Site Layout

Legend

- Former Installation Boundary
- Former Potable Water Well
- Groundwater Treatment Plant
- Sewage Treatment Plant
- River/Stream (Perennial)
- Stream (Intermittent)
- Water Body
- Surface Water Flow Direction
- Regional Groundwater Flow Direction
- United States Fish and Wildlife Service (USFWS) Refuge Area

Notes:
1. Areas not shaded green within the Former Installation Boundary are retained by the Army.
2. Regional groundwater is associated with the Wilcox Formation.

Data Sources:
USGS, NHD Data, 2021;
Shaw Environmental, Inc.,
Final Installation-Wide Baseline Ecological Risk Assessment,
Groundwater Flow Direction, 2007;
ESRI ArcGIS Online, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North

N

Big Cypress Bayou

Benefield Pond

Caddo Lake

Pine Island

Goose Island

Goose Prairie Creek

Saunders Branch

Harrison Bayou

Central Creek

Karnack

0 0.2 0.4
Miles

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Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, TX

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Figure 2-3
Topographic Map

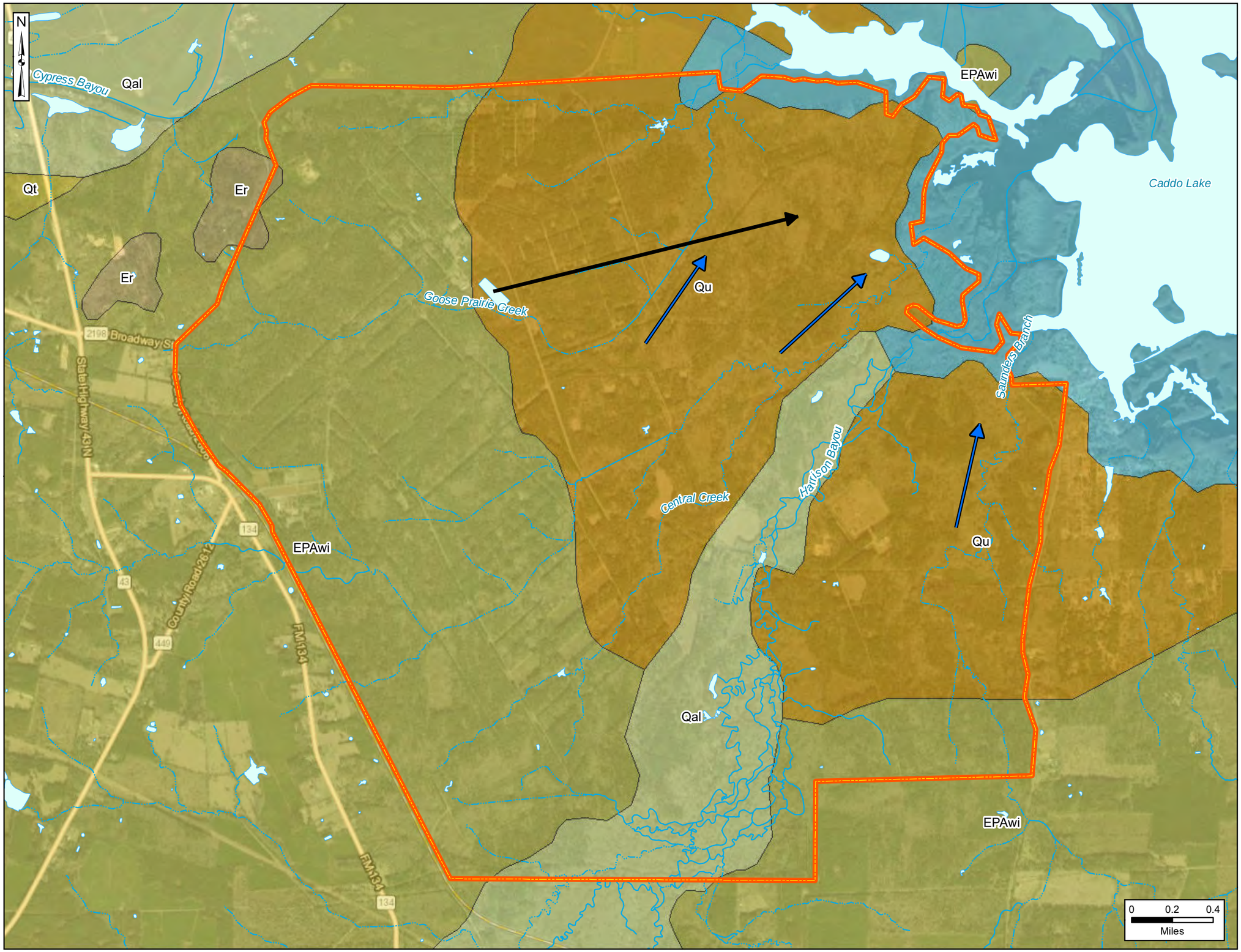
Legend

- Former Installation Boundary
- River/Stream (Perennial)
- Stream (Intermittent)
- Water Body
- Surface Water Flow Direction
- Regional Groundwater Flow Direction
- Elevation Contour (feet)

Note: Regional groundwater is associated with the Wilcox Formation.

Data Sources:
USGS, NHD Data, 2021
ESRI ArcGIS Online, USA Topo Maps

Coordinate System:
WGS 1984, UTM Zone 15 North



USAEC PFAS
Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, TX

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Figure 2-4
Geology and Hydrogeology

Legend

- Former Installation Boundary
- River/Stream (Perennial)
- Stream (Intermittent)
- Water Body
- Surface Water Flow Direction
- Regional Groundwater Flow Direction

Geologic Units

Quaternary

- Quaternary deposit, undivided (Qu)
- Alluvium (Qal)
- Terrace deposits (Qt)

Tertiary

- Reklaw Formation (Er)
- Wilcox Group, undivided (EPAwi)

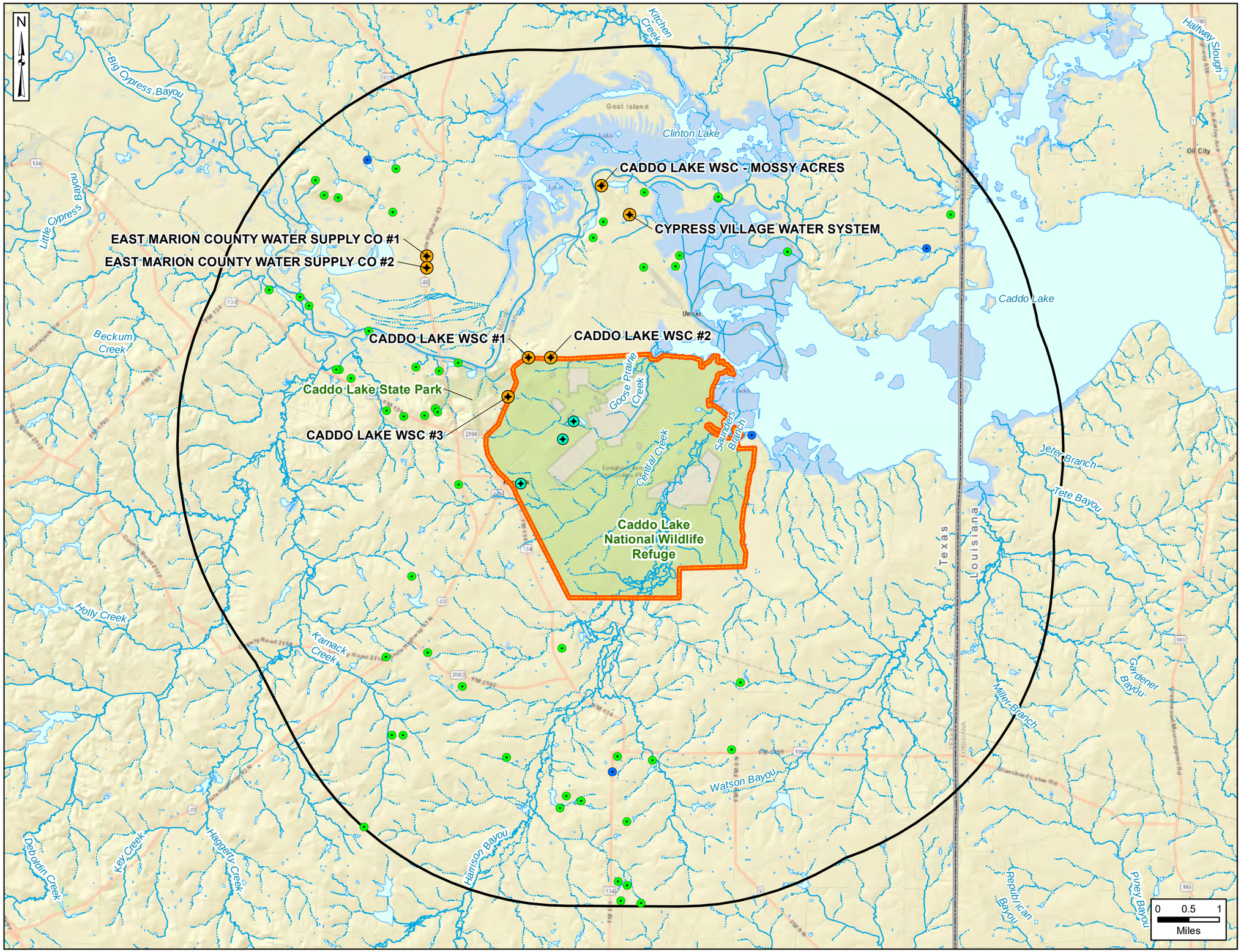
Other

- Water

Note: Regional groundwater is associated with the Wilcox Formation.

Data Sources:
USGS, NHD Data, 2021;
USGS, Geology, 2022;
Shaw Environmental, Inc., *Final Installation-Wide Baseline Ecological Risk Assessment*, Groundwater Flow Direction, 2007;
ESRI ArcGIS Online, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North



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Former Longhorn Army Ammunition Plant, TX

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Figure 2-5
Off-Post Potable Supply Wells

Legend

- Former Installation Boundary
- 5-Mile Radius
- State Boundary
- River/Stream (Perennial)
- Stream (Intermittent)
- Water Body
- United States Fish and Wildlife Service (USFWS) Refuge Area
- Public Supply Well
- Former Installation Water Supply Well
- Domestic Use Well
- Agricultural/Irrigation Use Well

Note: The functional status of the former installation water supply wells is unknown.

WSC = Water Supply Corporation

Data Sources:
TCEQ, Public Supply Wells, 2023
TWDB, Domestic Wells, 2023
USGS, NHD Data, 2021
ESRI ArcGIS Online, StreetMap Data

Coordinate System:
WGS 1984, UTM Zone 15 North

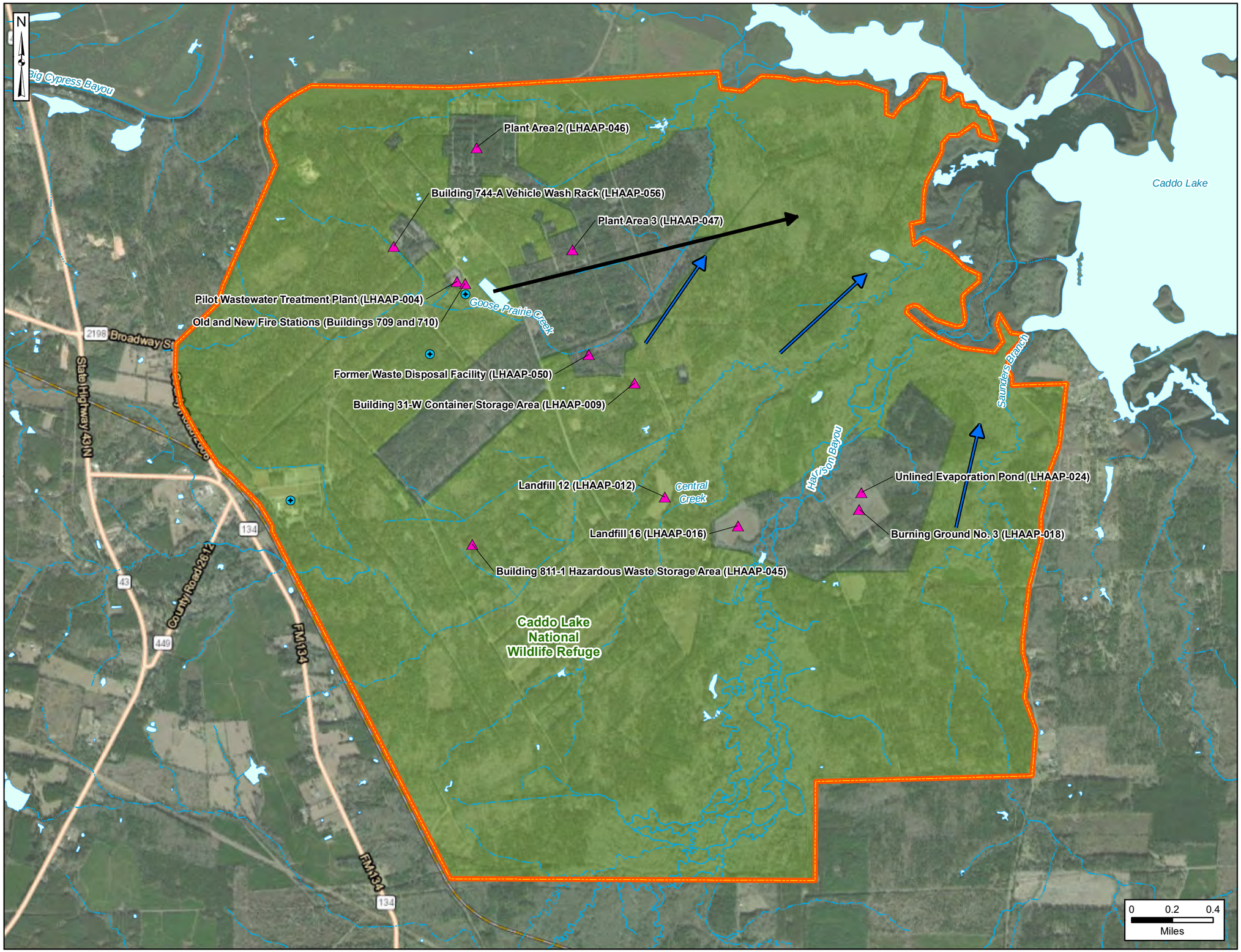

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Figure 5-2
AOPI Locations

Legend

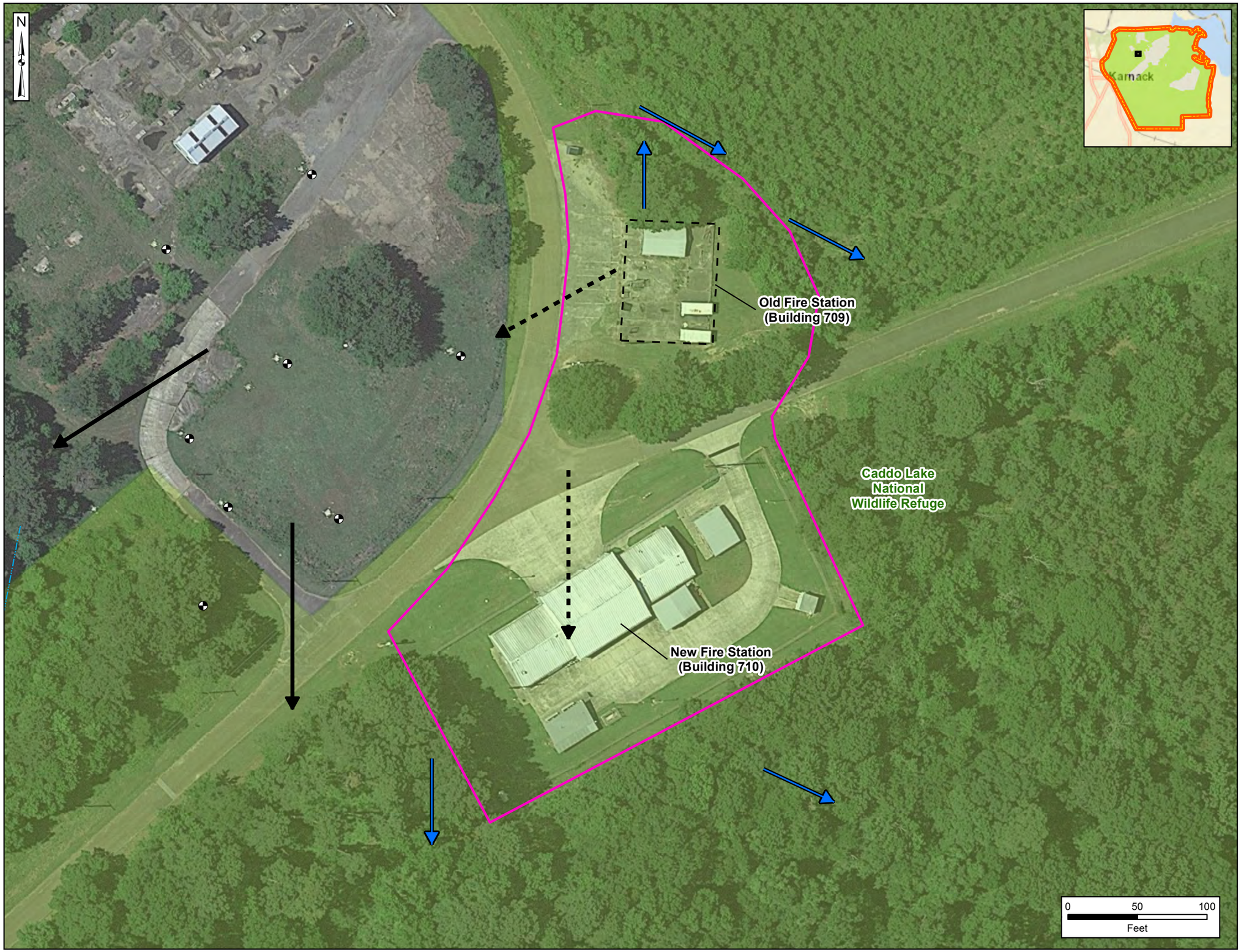
- Former Installation Boundary
- AOPI Location
- Former Potable Water Well
- River/Stream (Perennial)
- Stream (Intermittent)
- Water Body
- Surface Water Flow Direction
- Regional Groundwater Flow Direction
- United States Fish and Wildlife Service (USFWS) Refuge Area

Notes:
1. Areas not shaded green within the Former Installation Boundary are retained by the Army.
2. Regional groundwater is associated with the Wilcox Formation.

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant

Data Sources:
USGS, NHD Data, 2021;
Shaw Environmental, Inc., *Final Installation-Wide Baseline Ecological Risk Assessment*, Groundwater Flow Direction, 2007;
ESRI ArcGIS Online, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North



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Former Longhorn Army Ammunition Plant, TX

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Figure 5-3
Aerial Photo of
Old and New Fire Stations
(Buildings 709 and 710)

Legend

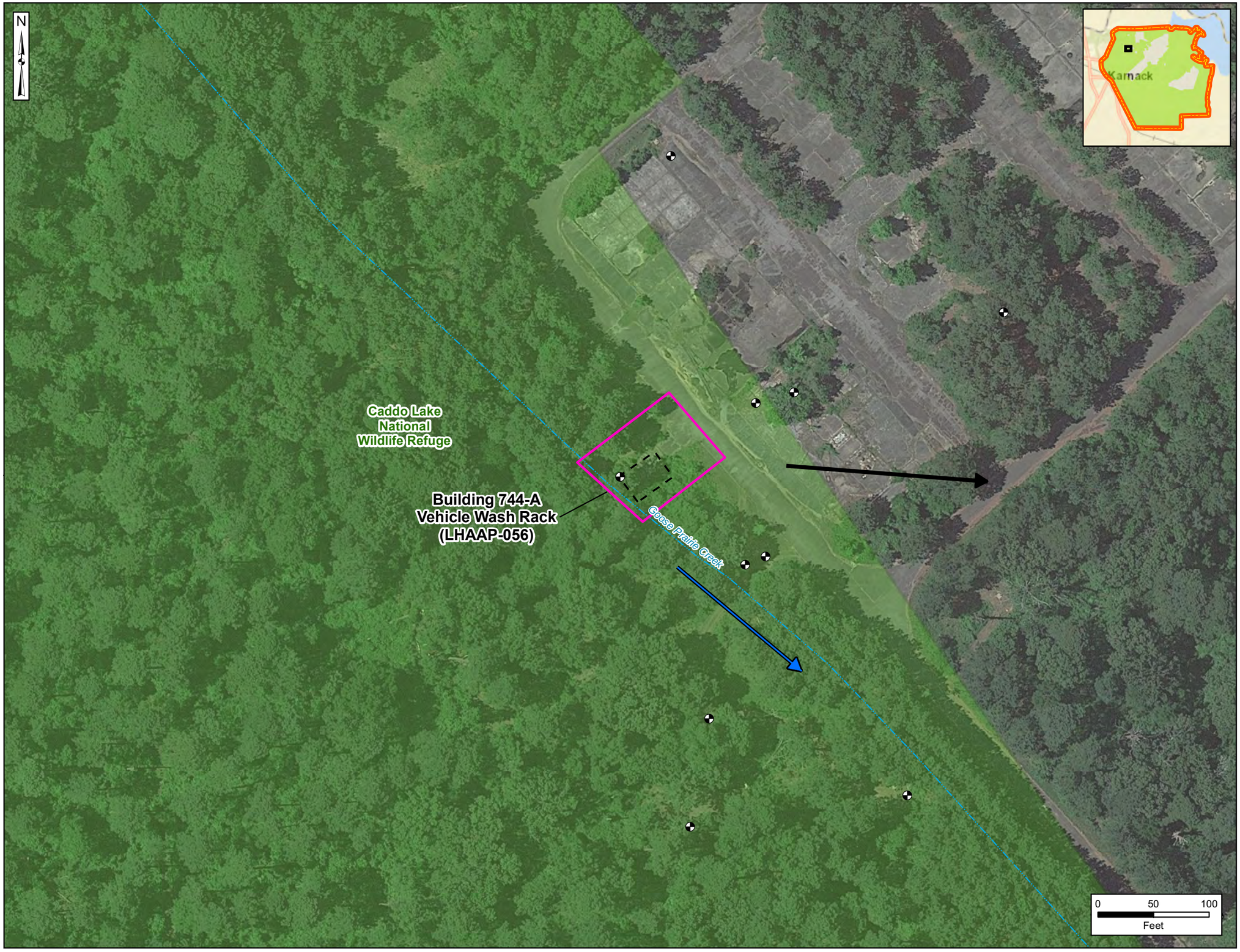
- Former Installation Boundary
- Historical Building Footprint
- AOPI
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Inferred Local Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Note: Areas not shaded green within the Former Installation Boundary are retained by the Army.

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant

Data Sources:
Bhate Environmental Associates, Inc., *First Annual Remediation Action Operation Report, LHAAP-04 Former Pilot Wastewater Treatment Plant (Shallow Zone)*, Groundwater Flow Direction, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North



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Former Longhorn Army Ammunition Plant, TX

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Figure 5-4
Aerial Photo of
Building 744-A Vehicle Wash Rack
(LHAAP-056)

Legend

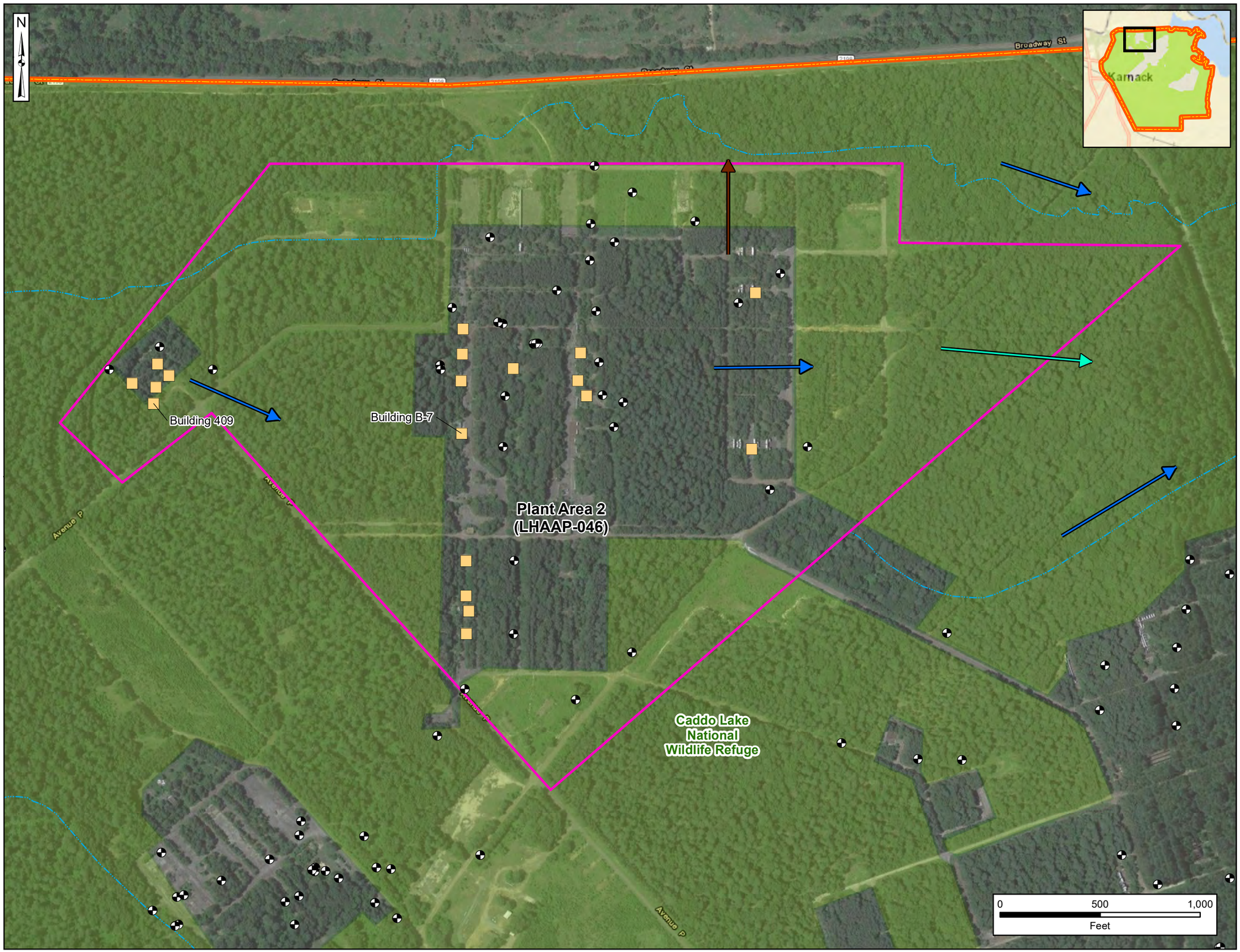
- Former Installation Boundary
- AOPI
- Historical Building Footprint
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Note: Areas not shaded green within the Former Installation Boundary are retained by the Army.

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant

Data Sources:
Bhate Environmental Associates, Inc., *Year 7 Annual Remedial Action Operation Report (Shallow Zone)*, Groundwater Flow Direction, 2022;
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North



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Former Longhorn Army Ammunition Plant, TX

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Figure 5-5
Aerial Photo of
Plant Area 2 (LHAAP-046)

Legend

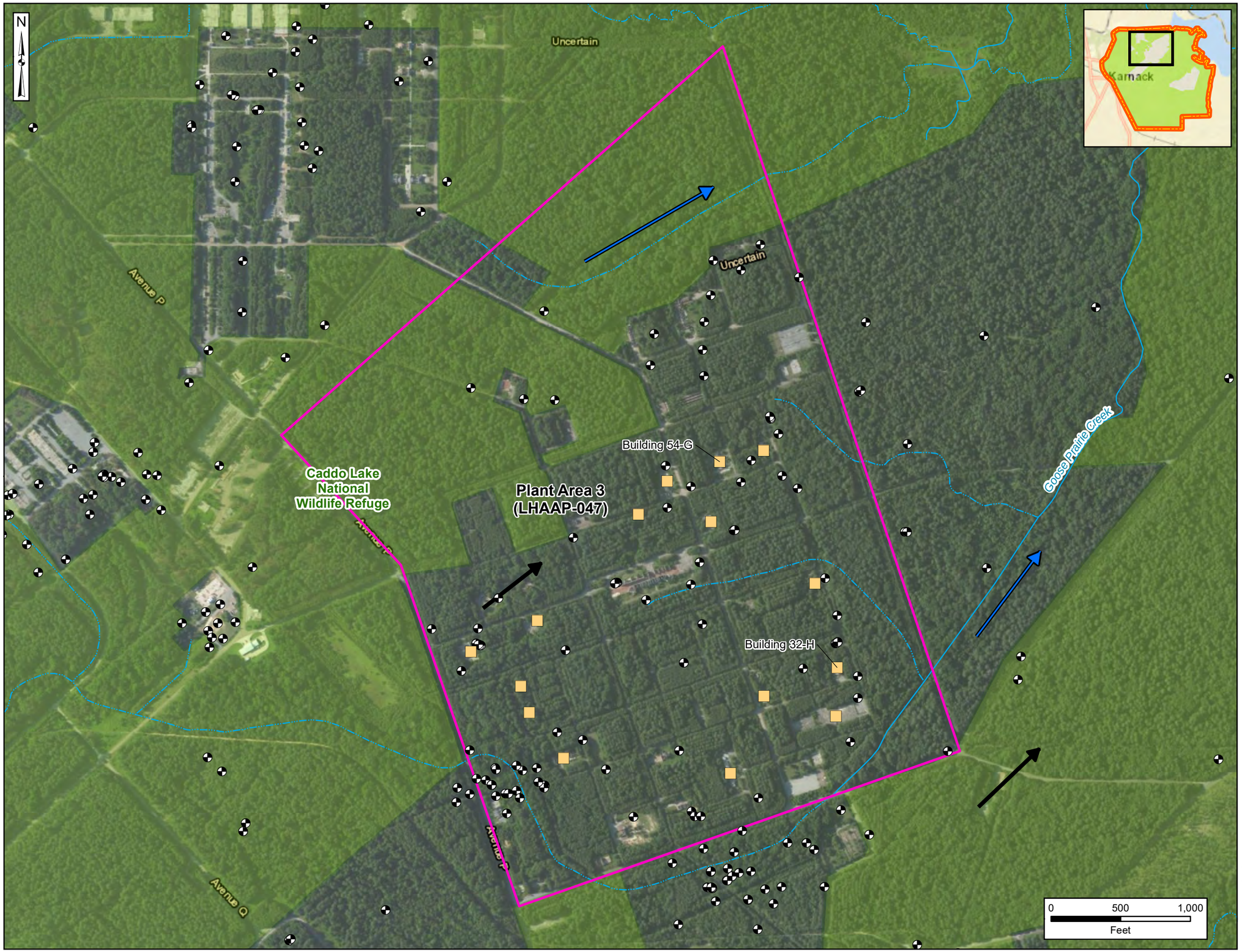
- Former Installation Boundary
- AOPI
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction (Shallow Zone)
- Local Groundwater Flow Direction (Intermediate Zone)
- Monitoring Well
- Former Building Used for Potentially PFAS-Containing Materials Activities
- United States Fish and Wildlife Service (USFWS) Refuge Area

Note: Areas not shaded green within the Former Installation Boundary are retained by the Army.

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant
PFAS = per- and polyfluoroalkyl substances

Data Sources:
Bhate Environmental Associates, Inc., *Fifth Annual Remedial Action Operation Report, LHAAP-46 (Shallow and Intermediate Zones)*. Groundwater Flow Direction, 2020;
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North



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Former Longhorn Army Ammunition Plant, TX

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Figure 5-6
Aerial Photo of
Plant Area 3 (LHAAP-047)

Legend

- Former Installation Boundary
- AOPI
- River/Stream (Perennial)
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Monitoring Well
- Former Building Used for Potentially PFAS-Containing Materials Activities
- United States Fish and Wildlife Service (USFWS) Refuge Area

Note: Areas not shaded green within the Former Installation Boundary are retained by the Army.

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant
PFAS = per- and polyfluoroalkyl substances

Data Sources:
HDR, *LHAAP-47 Post Screening Investigation Addendum No. 2 Report (Shallow and Intermediate Zones)*, Groundwater Flow Direction, 2021;.
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
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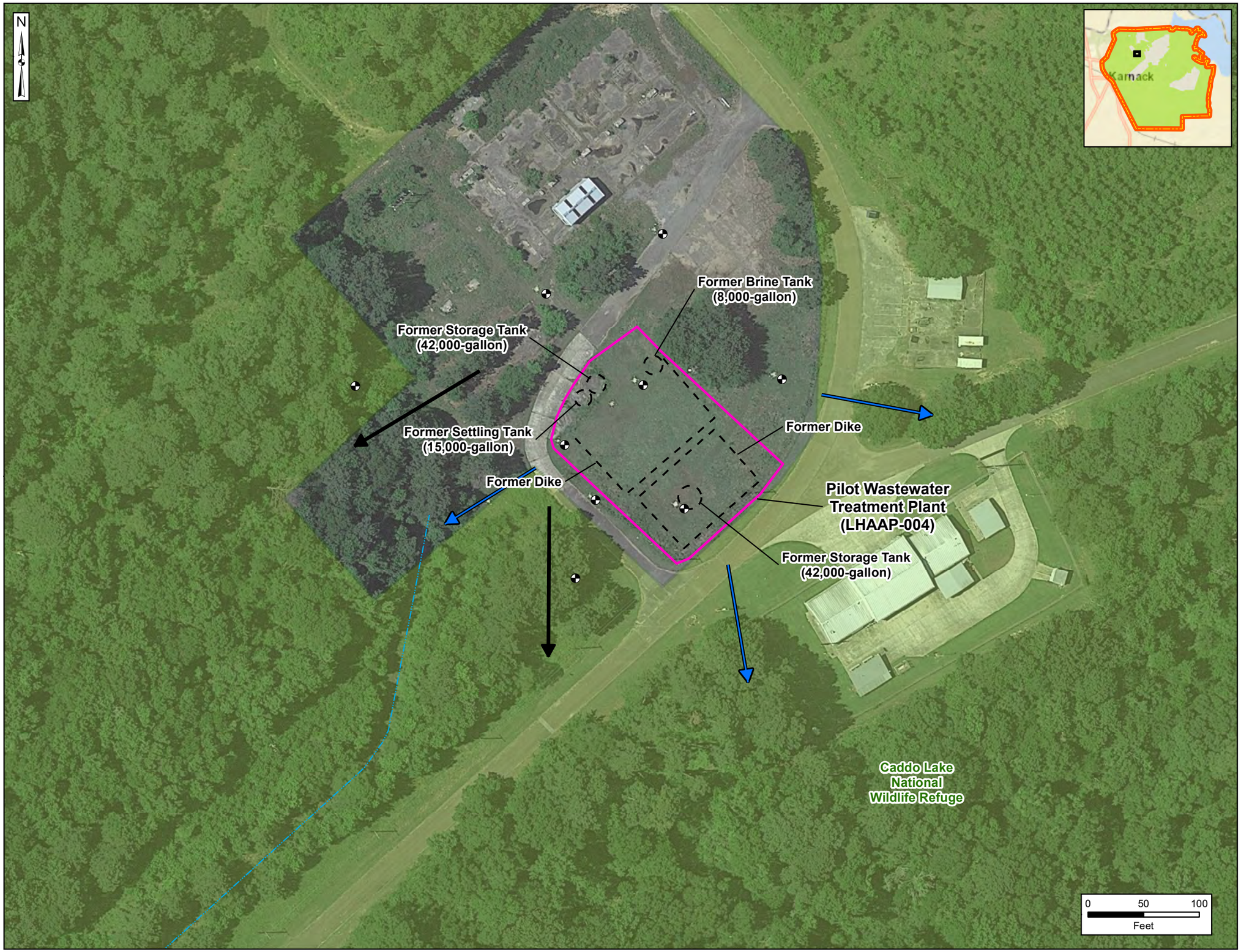

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Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, TX

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Figure 5-7
Aerial Photo of
Pilot Wastewater Treatment Plant
(LHAAP-004)

Legend

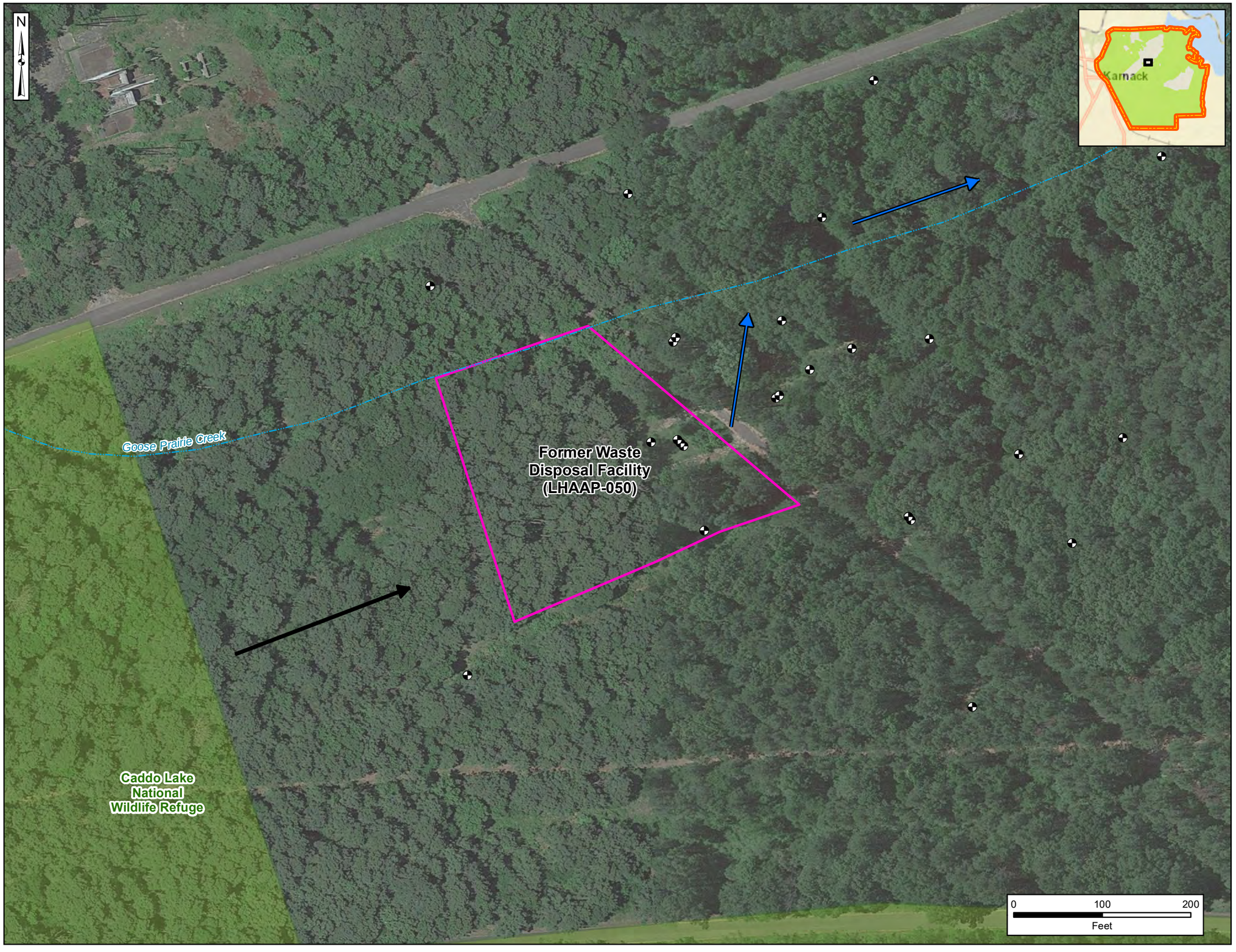
- Former Installation Boundary
- AOPI
- Historical Footprint
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Note: Areas not shaded green within the Former Installation Boundary are retained by the Army.

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant

Data Sources:
Bhate Environmental Associates, Inc., *First Annual Remediation Action Operation Report, LHAAP-04 Former Pilot Wastewater Treatment Plant (Shallow Zone)*, Groundwater Flow Direction, 2021
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North



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Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, TX

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Figure 5-8
Aerial Photo of
Former Waste Disposal Facility
(LHAAP-050)

Legend

- Former Installation Boundary
- AOPI
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Note: Areas not shaded green within the Former Installation Boundary are retained by the Army.

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant

Data Sources:
Bhate Environmental Associates, Inc., *Contingency Remedy for LHAAP-50 (Shallow Zone)*, Groundwater Flow Direction, 2020
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
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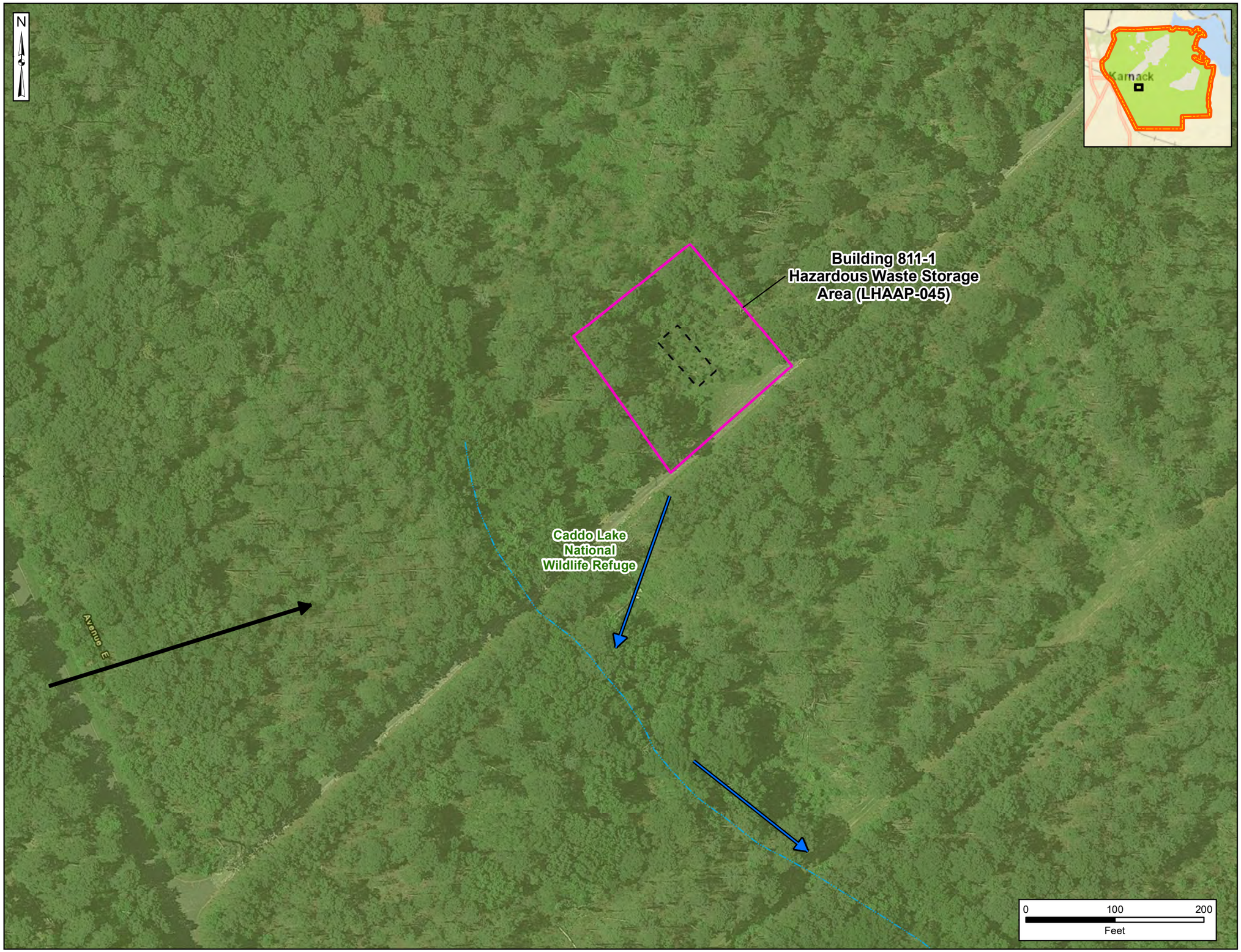

USAEC PFAS
Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, TX

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Figure 5-9
Aerial Photo of
Building 811-1
Hazardous Waste Storage Area
(LHAAP-045)

Legend

- Former Installation Boundary
- AOPI
- Historical Building Footprint
- Stream (Intermittent)
- Surface Water Flow Direction
- Regional Groundwater Flow Direction
- United States Fish and Wildlife Service (USFWS) Refuge Area

Notes:
1) Areas not shaded green within the Former Installation Boundary are retained by the Army.
2) Regional groundwater is associated with the Wilcox Formation.

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant

Data Sources:
Shaw Environmental, Inc., *Final Installation-Wide Baseline Ecological Risk Assessment*, Groundwater Flow Direction, 2007;
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
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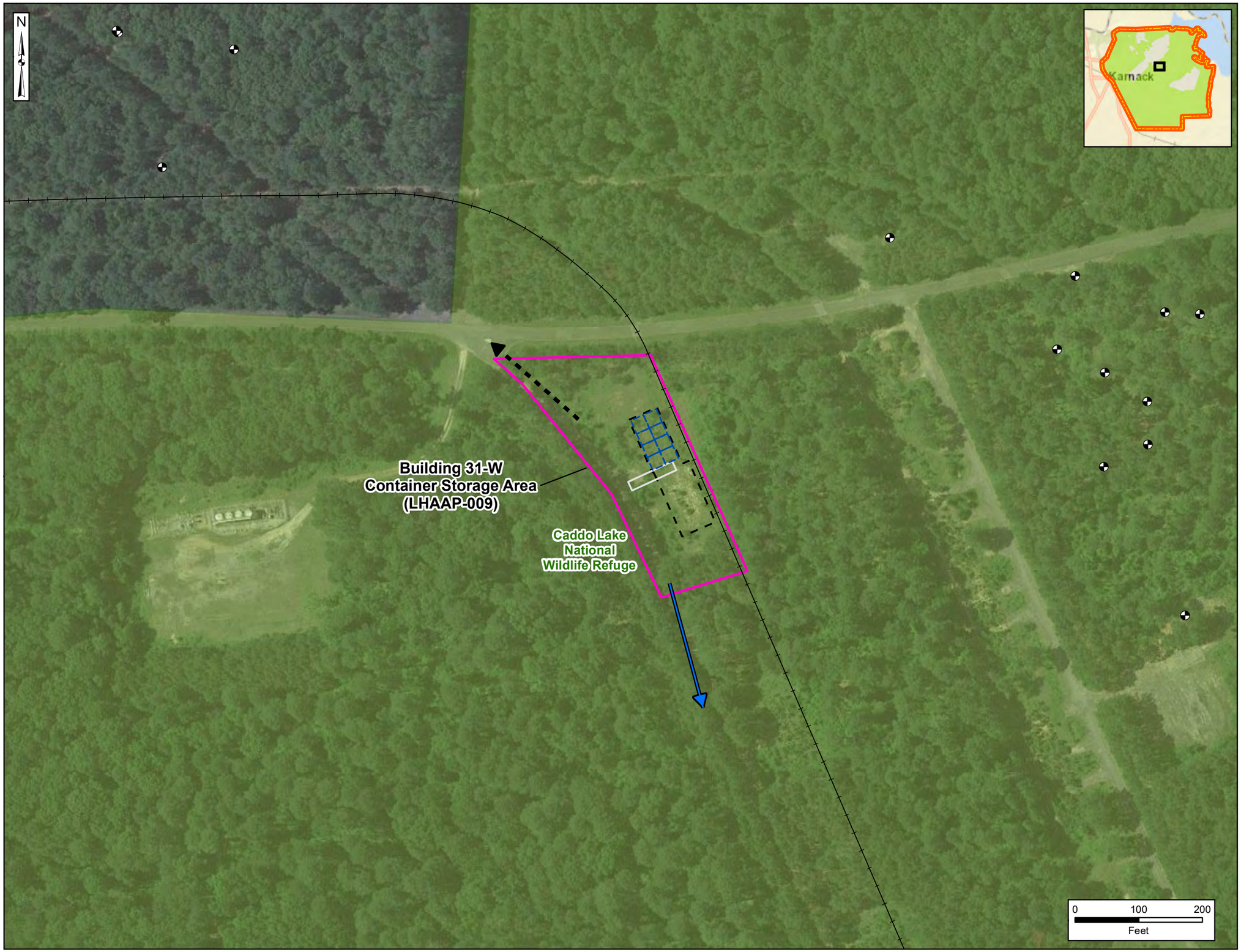

USAEC PFAS
Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, TX

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Figure 5-10
Aerial Photo of
Building 31-W
Container Storage Area
(LHAAP-009)

Legend

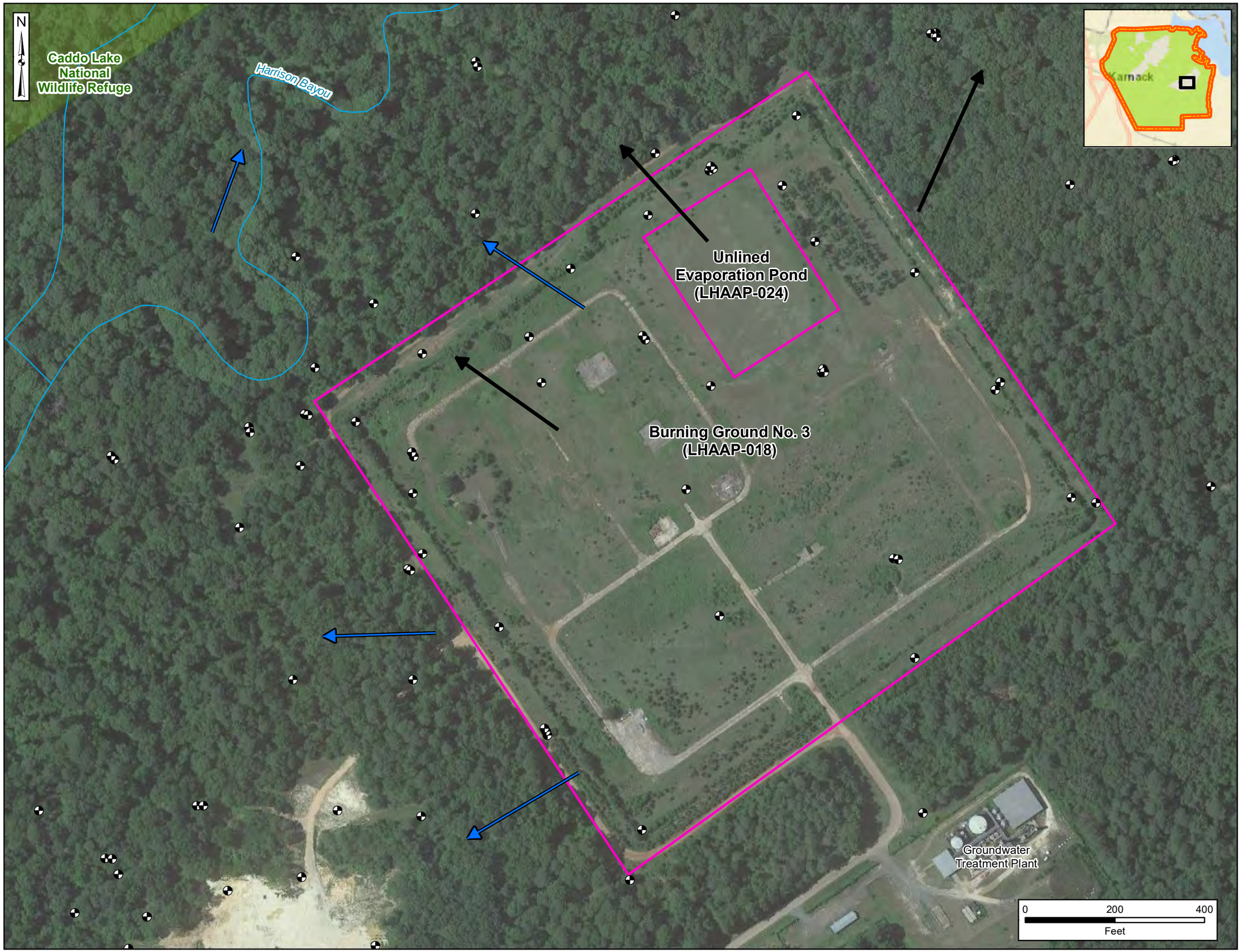
- Former Installation Boundary
- AOPI
- Historical Building Footprint
- Former Storage Cell
- Former Ramp
- Railroad
- Surface Water Flow Direction
- Inferred Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Notes:
1) Areas not shaded green within the Former Installation Boundary are retained by the Army.
2) Inferred Local Groundwater Flow Direction is based on potentiometric data of wells located to east of the AOPI (Bhate Environmental Associates, Inc., 2021.

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant

Data Sources:
Bhate Environmental Associates, Inc., *Seventh Annual Remedial Action Operation Report, LHAAP-67 (Shallow Zone)*, Groundwater Flow Direction, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North



USAEC PFAS
Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, TX

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Figure 5-11
Aerial Photo of
Burning Ground No. 3
(LHAAP-018) and
Unlined Evaporation Pond
(LHAAP-024)

Legend

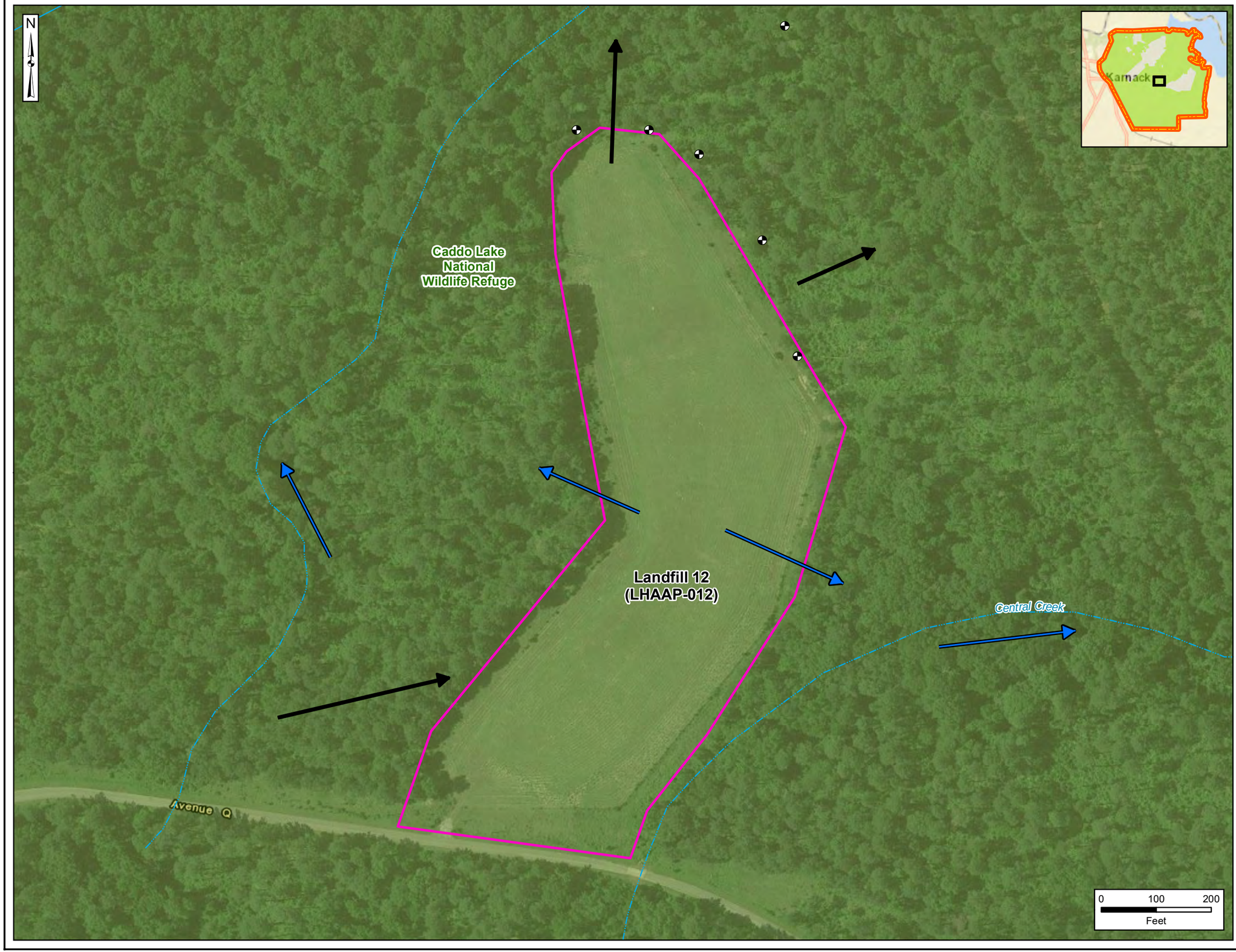
- Former Installation Boundary
- AOPI
- River/Stream (Perennial)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Note: Areas not shaded green within the Former Installation Boundary are retained by the Army.

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant

Data Sources:
HDR. *Record of Decision for LHAAP-18/24 (Shallow Zone)*, Groundwater Flow Direction, 2019;
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North



USAEC PFAS
Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, TX

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Figure 5-12
Aerial Photo of
Landfill 12 (LHAAP-012)

Legend

- Former Installation Boundary
- AOPI
- River/Stream (Perennial)
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Note: Areas not shaded green within the Former Installation Boundary are retained by the Army.

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant

Data Sources:
Bhate Environmental Associates, Inc., *2019 Remedial Action Operation Report, Landfill 12 (LHAAP-12) (Shallow Zone)*, Groundwater Flow Direction, 2020;
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
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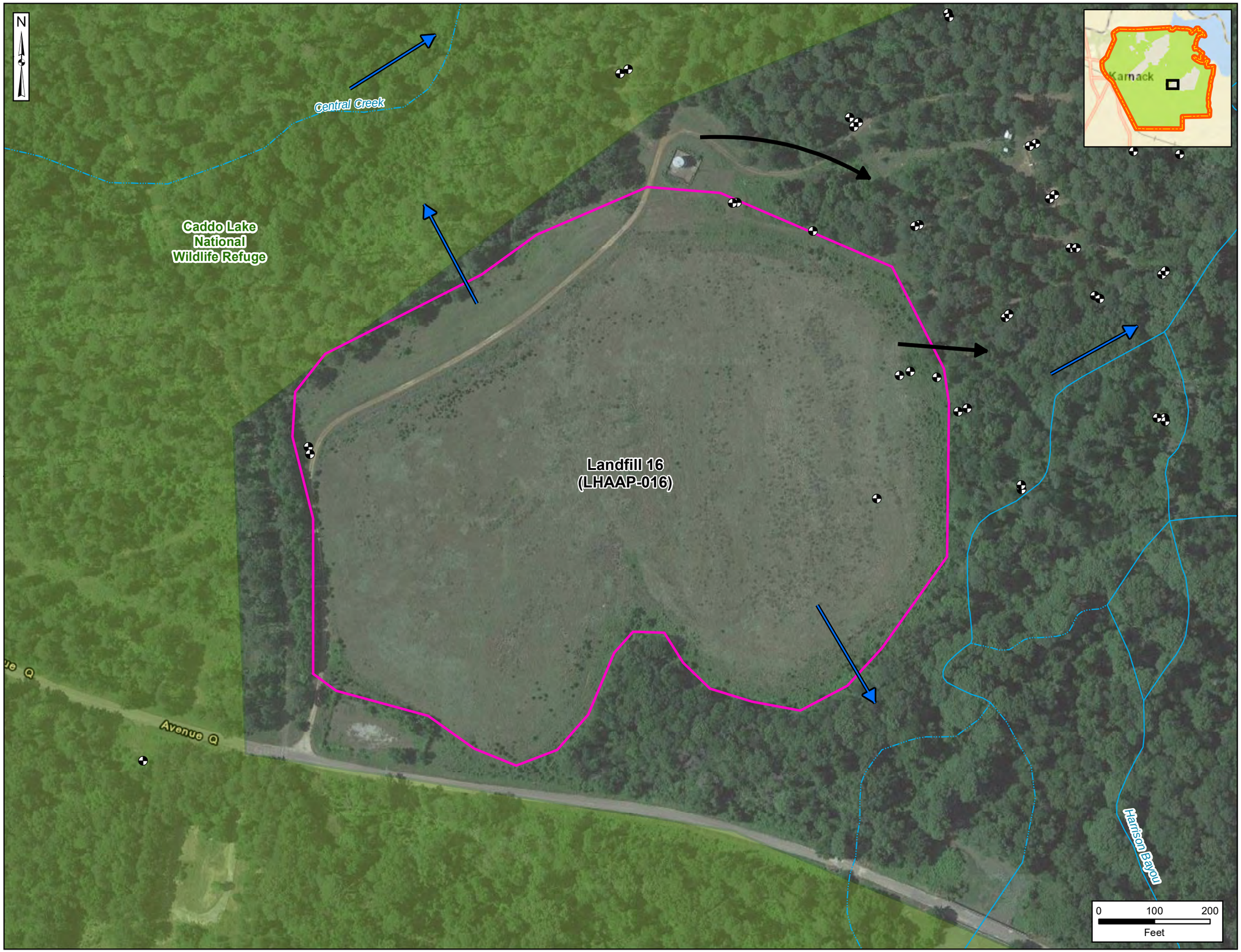

USAEC PFAS
Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, TX

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Figure 5-13
Aerial Photo of
Landfill 16 (LHAAP-016)

Legend

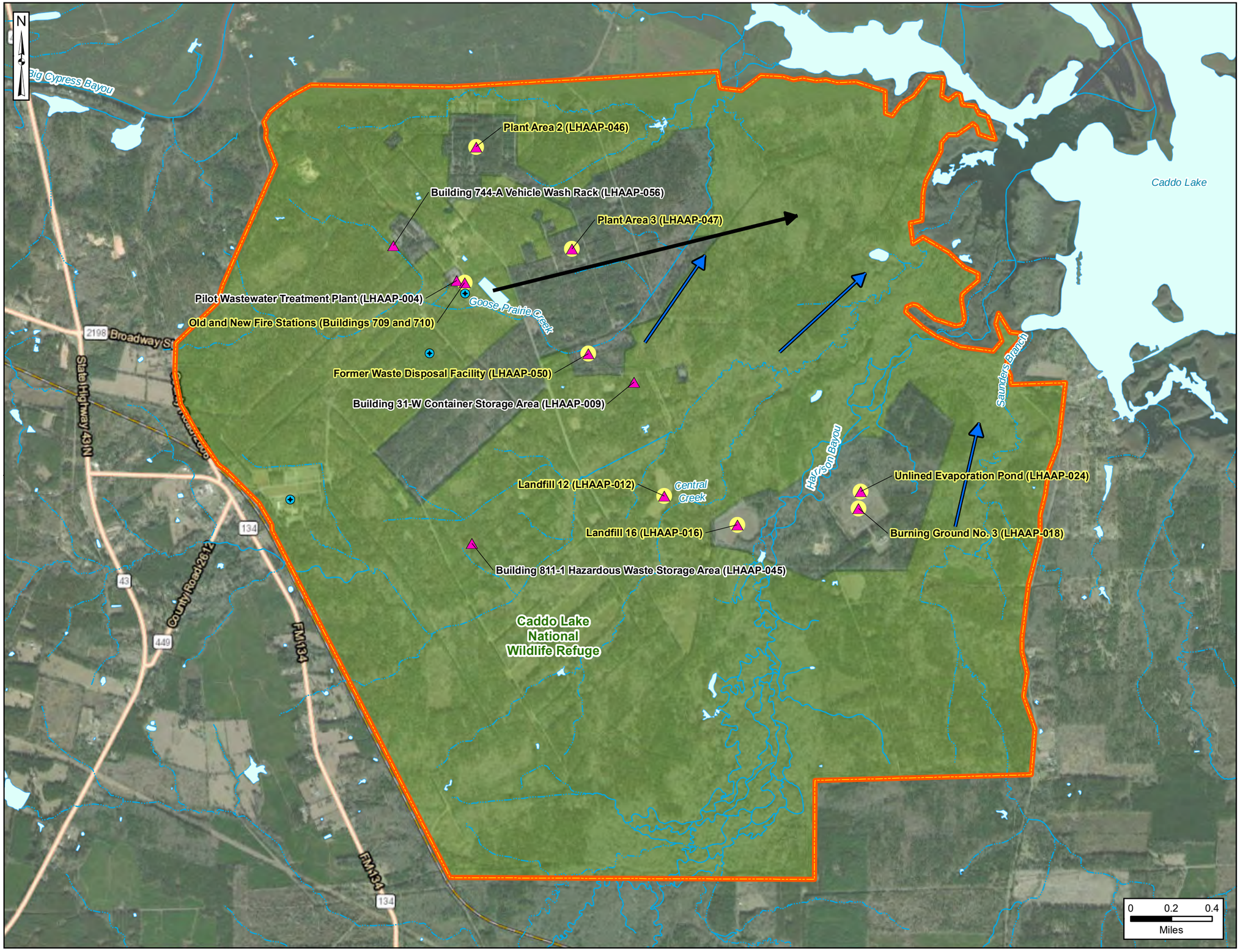
- Former Installation Boundary
- AOPI
- River/Stream (Perennial)
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Note: Areas not shaded green within the Former Installation Boundary are retained by the Army.

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant

Data Sources:
Bhate Environmental Associates, Inc., *First Annual Remedial Action Operation Report, LHAAP-16 Landfill (Shallow)*, Groundwater Flow Direction, 2022;
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North



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Former Longhorn Army Ammunition Plant, TX

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Figure 7-1
AOPI Locations and OSD Risk Screening Level Exceedances

Legend

- Former Installation Boundary
- AOPI Location
- AOPI with OSD Risk Screening Level Exceedance
- Former Potable Water Well
- River/Stream (Perennial)
- Stream (Intermittent)
- Water Body
- Surface Water Flow Direction
- Regional Groundwater Flow Direction
- United States Fish and Wildlife Service (USFWS) Refuge Area

Notes:
1. Areas not shaded green within the Former Installation Boundary are retained by the Army.
2. Regional groundwater is associated with the Wilcox Formation.

AOPI = area of potential interest
OSD = Office of the Secretary of Defense

Data Sources:
USGS, NHD Data, 2021;
Shaw Environmental, Inc., *Final Installation-Wide Baseline Ecological Risk Assessment*, Groundwater Flow Direction, 2007;
ESRI ArcGIS Online, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North

Chemical	Residential Scenario Risk Screening Level		Industrial/Commercial Scenario Risk Screening Level
	Tap Water (ng/L)	Soil (mg/kg)	Soil (mg/kg)
PFOS	4	0.013	0.16
PFOA	6	0.019	0.25
PFBS	601	1.9	25
PFNA	6	0.019	0.25
PFHxS	39	0.13	1.6

LHAAP-LHSMW01	
Date	11/11/2022
PFOS	**4.8**
PFOA	**29**
PFBS	3.5 U
PFNA	**700**
PFHxS	**5.2**

LHAAP-ONFS-SO-01	
Date	11/15/2022
Depth	0-2 ft bgs
PFOS	0.0012 U
PFOA	0.0012 U
PFBS	0.0012 U
PFNA	0.0012 U
PFHxS	0.0012 U
LHAAP-ONFS-GW-01	
Date	11/28/2022
PFOS	**11 J+**
PFOA	**25**
PFBS	3.4 U
PFNA	**5.6**
PFHxS	3.4 U

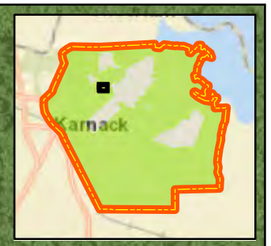
LHAAP-ONFS-SO-02	
Date	11/15/2022
Depth	0-2 ft bgs
PFOS	**0.0013**
PFOA	0.0010 U
PFBS	0.0010 U
PFNA	0.0010 U
PFHxS	0.0010 U
LHAAP-ONFS-GW-02	
Date	11/16/2022
PFOS	4.3 U
PFOA	**160**
PFBS	**6.5**
PFNA	**18**
PFHxS	**5.7**

LHAAP-ONFS-SO-06	
Date	11/08/2022
Depth	0-2 ft bgs
PFOS	0.0010 U
PFOA	0.0010 U
PFBS	0.0010 U
PFNA	**0.0022**
PFHxS	0.0010 U

LHAAP-ONFS-SO-04	
Date	11/15/2022
Depth	0-2 ft bgs
PFOS	0.00096 U
PFOA	0.00096 U
PFBS	0.00096 U
PFNA	0.00096 U
PFHxS	0.00096 U
LHAAP-ONFS-GW-04	
Date	11/28/2022
PFOS	3.5 U
PFOA	**17**
PFBS	3.5 U
PFNA	3.5 U
PFHxS	3.5 U

LHAAP-ONFS-SO-03	
Date	11/15/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U
LHAAP-ONFS-GW-03	
Date	11/16/2022
PFOS	**4.4**
PFOA	**33**
PFBS	**2.2 J**
PFNA	**24**
PFHxS	**2.2 J**

LHAAP-ONFS-SO-05	
Date	11/08/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U



Caddo Lake National Wildlife Refuge

Old Fire Station (Building 709)

New Fire Station (Building 710)

0 50 100 Feet

Notes:
1. Groundwater results are reported in nanograms/liter (ng/L), or parts per trillion.
2. Soil results are reported in milligrams per kilogram (mg/kg), or parts per million.
3. Bolded values indicate detections.
4. Results that exceed the Office of the Secretary of Defense (OSD) residential scenario risk screening levels (OSD 2022) are highlighted gray.
5. Areas not shaded green within the Former Installation Boundary are retained by the Army.

Qualifiers:
J = The analyte was positively identified; however the associated numerical value is an estimated concentration only.
J+ = The result is an estimated quantity; the result may be biased high.
U = The analyte was analyzed for, but was not detected above the limit of quantitation (LOQ).

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Figure 7-2
Old and New Fire Stations (Buildings 709 and 710) PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results

Legend

- Former Installation Boundary
- Historical Building Footprint
- AOPI
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Inferred Local Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Sampling Locations

- Groundwater (Monitoring Well)
- Soil/Groundwater Boring
- Surface Soil

AOPI = area of potential interest
ft bgs = feet below ground surface
GW = groundwater
LHAAP = Longhorn Army Ammunition Plant
PFBS = perfluorobutanesulfonic acid
PFHxS = perfluorohexane sulfonate
PFNA = perfluorononanoic acid
PFOA = perfluorooctanoic acid
PFOS = perfluorooctane sulfonate
SO = soil

Data Sources:
Bhate Environmental Associates, Inc., *First Annual Remediation Action Operation Report, LHAAP-04 Former Pilot Wastewater Treatment Plant (Shallow Zone)*, Groundwater Flow Direction, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North

Chemical	Residential Scenario Risk Screening Level		Industrial/Commercial Scenario Risk Screening Level
	Tap Water (ng/L)	Soil (mg/kg)	Soil (mg/kg)
PFOS	4	0.013	0.16
PFOA	6	0.019	0.25
PFBS	601	1.9	25
PFNA	6	0.019	0.25
PFHxS	39	0.13	1.6

LHAAP-35AWW16	
Date	11/11/2022
PFOS	3.4 U
PFOA	3.4 U
PFBS	3.4 U
PFNA	3.4 U
PFHxS	3.4 U

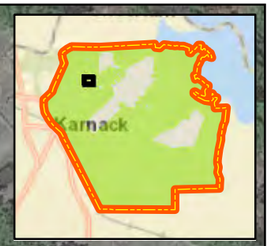
LHAAP-VWR-SO-01	
Date	11/08/2022
Depth	0-2 ft bgs
PFOS	0.0010 U
PFOA	0.0010 U
PFBS	0.0010 U
PFNA	0.0010 U
PFHxS	0.0010 U

LHAAP-35AWW20	
Date	11/11/2022
PFOS	3.7 U
PFOA	**2.3 J**
PFBS	3.7 U
PFNA	3.7 U
PFHxS	3.7 U

LHAAP-VWR-SO-02	
Date	11/08/2022
Depth	0-2 ft bgs
PFOS	0.00096 U [0.00099 U]
PFOA	0.00096 U [0.00099 U]
PFBS	0.00096 U [0.00099 U]
PFNA	0.00096 U [0.00099 U]
PFHxS	0.00096 U [0.00099 U]

LHAAP-VWR-SO-03	
Date	11/14/2022
Depth	0-2 ft bgs
PFOS	0.0010 U
PFOA	0.0010 U
PFBS	0.0010 U
PFNA	0.0010 U
PFHxS	0.0010 U

LHAAP-35AWW06	
Date	11/14/2022
PFOS	3.7 U [3.5 U]
PFOA	3.7 U [3.5 U]
PFBS	3.7 U [3.5 U]
PFNA	3.7 U [3.5 U]
PFHxS	3.7 U [3.5 U]



Caddo Lake National Wildlife Refuge

Building 744-A Vehicle Wash Rack (LHAAP-056)

Goose Prairie Creek

0 50 100
Feet

Notes:
1. Groundwater results are reported in nanograms/liter (ng/L), or parts per trillion.
2. Soil results are reported in milligrams per kilogram (mg/kg), or parts per million.
3. Results in brackets are field duplicate sample results.
4. Bolded values indicate detections.
5. Areas not shaded green within the Former Installation Boundary are retained by the Army.

Qualifiers:
J = The analyte was positively identified; however the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for, but was not detected above the limit of quantitation (LOQ).

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Former Longhorn Army Ammunition Plant, TX

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Figure 7-3
Building 744-A Vehicle Wash Rack (LHAAP-056)
PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results

Legend

- Former Installation Boundary
- AOPI
- Historical Building Footprint
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Sampling Locations

- Groundwater (Monitoring Well)
- Sump-Related Soil
- Surface Soil

AOPI = area of potential interest
ft bgs = feet below ground surface
LHAAP = Longhorn Army Ammunition Plant
PFBS = perfluorobutanesulfonic acid
PFHxS = perfluorohexane sulfonate
PFNA = perfluorononanoic acid
PFOA = perfluorooctanoic acid
PFOS = perfluorooctane sulfonate
SO = soil

Data Sources:
Bhate Environmental Associates, Inc., *Year 7 Annual Remedial Action Operation Report (Shallow Zone)*, Groundwater Flow Direction, 2022;
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North

Chemical	Residential Scenario Risk Screening Level		Industrial/Commercial Scenario Risk Screening Level
	Tap Water (ng/L)	Soil (mg/kg)	Soil (mg/kg)
PFOS	4	0.013	0.16
PFOA	6	0.019	0.25
PFBS	601	1.9	25
PFNA	6	0.019	0.25
PFHxS	39	0.13	1.6

LHAAP-46WW02	
Date	11/30/2022
PFOS	**17**
PFOA	**29**
PFBS	3.8 U
PFNA	3.8 U
PFHxS	**4.4**

LHAAP-LHSMW21	
Date	11/12/2022
PFOS	3.9 U
PFOA	3.9 U
PFBS	3.9 U
PFNA	3.9 U
PFHxS	3.9 U

LHAAP-PA2-SO-09	
Date	11/11/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-LHSMW25	
Date	11/28/2022
PFOS	3.5 U
PFOA	3.5 U
PFBS	3.5 U
PFNA	3.5 U
PFHxS	3.5 U

LHAAP-PA2-SO-01	
Date	11/15/2022
Depth	0-2 ft bgs
PFOS	0.0013 U
PFOA	0.0013 U
PFBS	0.0013 U
PFNA	0.0013 U
PFHxS	0.0013 U

LHAAP-PA2-SO-06	
Date	11/10/2022
Depth	0-2 ft bgs
PFOS	0.0012 U
PFOA	0.0012 U
PFBS	0.0012 U
PFNA	0.0012 U
PFHxS	0.0012 U

LHAAP-LHSMW19	
Date	11/12/2022
PFOS	**2.6 J**
PFOA	3.9 U
PFBS	**2.6 J**
PFNA	3.9 U
PFHxS	3.9 U

LHAAP-PA2-SO-08	
Date	11/11/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-PA2-SO-02	
Date	11/10/2022
Depth	0-2 ft bgs
PFOS	0.0010 U
PFOA	0.0010 U
PFBS	0.0010 U
PFNA	0.0010 U
PFHxS	0.0010 U

LHAAP-PA2-SO-03	
Date	11/15/2022
Depth	0-2 ft bgs
PFOS	0.00098 U
PFOA	0.00098 U
PFBS	0.00098 U
PFNA	0.00098 U
PFHxS	0.00098 U

LHAAP-PA2-SO-04	
Date	11/15/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-46WW06	
Date	11/28/2022
PFOS	3.6 U
PFOA	3.6 U
PFBS	3.6 U
PFNA	3.6 U
PFHxS	3.6 U

LHAAP-LHSMW23R	
Date	11/28/2022
PFOS	3.8 U
PFOA	3.8 U
PFBS	3.8 U
PFNA	3.8 U
PFHxS	3.8 U

LHAAP-PA2-SO-10	
Date	11/11/2022
Depth	0-2 ft bgs
PFOS	0.0012 U
PFOA	0.0012 U
PFBS	0.0012 U
PFNA	0.0012 U
PFHxS	0.0012 U

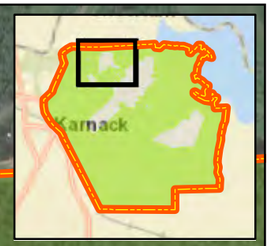
LHAAP-PA2-SO-05	
Date	11/15/2022
Depth	0-2 ft bgs
PFOS	0.0013 U
PFOA	0.0013 U
PFBS	0.0013 U
PFNA	0.0013 U
PFHxS	0.0013 U

LHAAP-PA2-SO-07	
Date	11/11/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-PA2-SO-11	
Date	11/10/2022
Depth	0-2 ft bgs
PFOS	0.0010 U
PFOA	0.0010 U
PFBS	0.0010 U
PFNA	0.0010 U
PFHxS	0.0010 U

LHAAP-PA2-SO-12	
Date	11/10/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-PA2-SO-13	
Date	11/10/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U



Building 409

Building B-7

Plant Area 2 (LHAAP-046)

Caddo Lake National Wildlife Refuge

0 500 1,000 Feet

Notes:
1. Groundwater results are reported in nanograms/liter (ng/L), or parts per trillion.
2. Soil results are reported in milligrams per kilogram (mg/kg), or parts per million.
3. Bolded values indicate detections.
4. Results that exceed the Office of the Secretary of Defense (OSD) residential scenario risk screening levels (OSD 2022) are highlighted gray.
5. Areas not shaded green within the Former Installation Boundary are retained by the Army.

Qualifiers:
J = The analyte was positively identified; however the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for, but was not detected above the limit of quantitation (LOQ).

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Figure 7-4
Plant Area 2 (LHAAP-046) PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results

Legend

- Former Installation Boundary
- AOPI
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction (Shallow Zone)
- Local Groundwater Flow Direction (Intermediate Zone)
- Monitoring Well
- Former Building Used for Potentially PFAS-Containing Materials Activities
- United States Fish and Wildlife Service (USFWS) Refuge Area

Sampling Locations

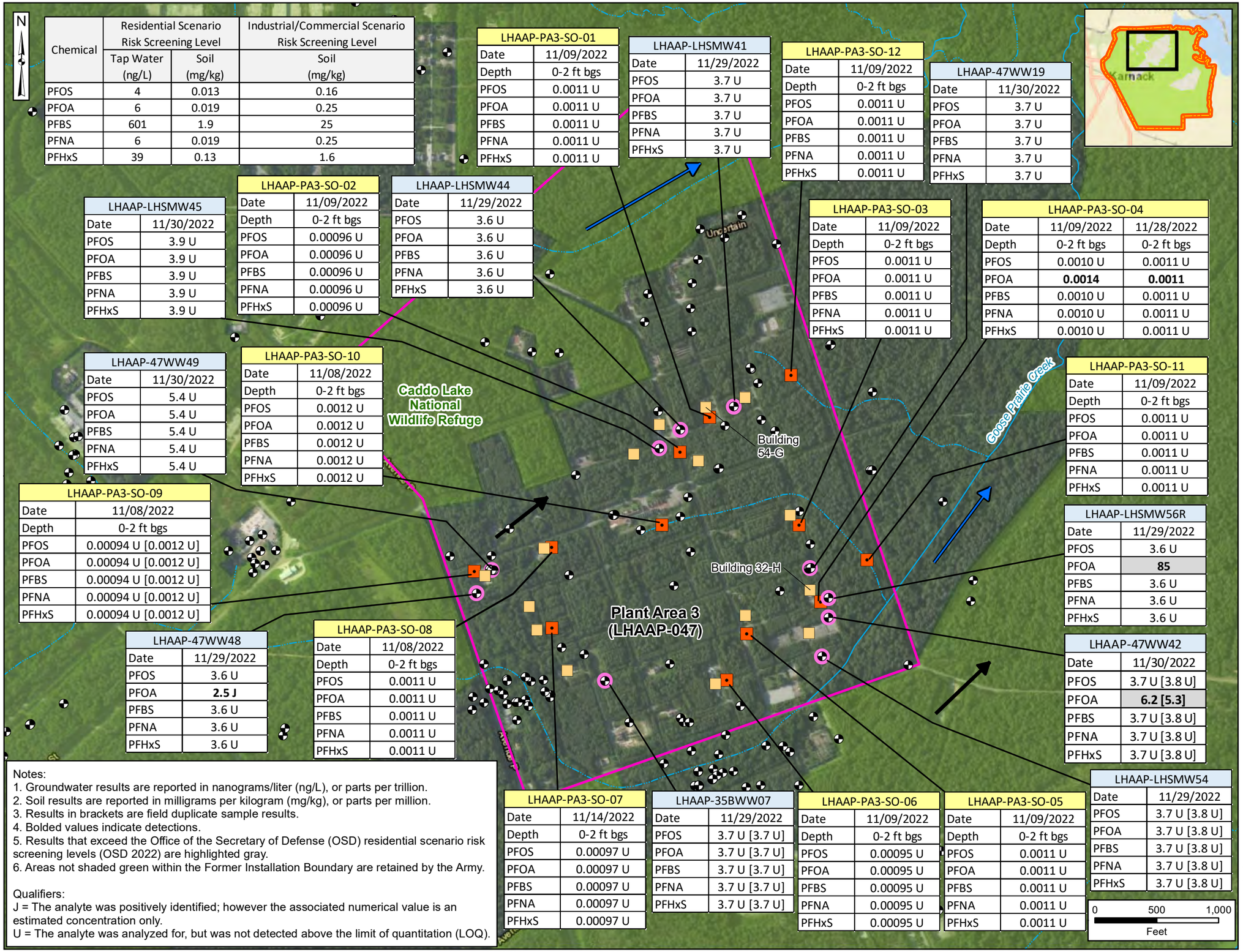
- Groundwater (Monitoring Well)
- Sump-Related Soil

* Alternate monitoring well groundwater sample location to be collected if any of the other wells are dry.

AOPI = area of potential interest
ft bgs = feet below ground surface
LHAAP = Longhorn Army Ammunition Plant
PFAS = per- and polyfluoroalkyl substances
PFBS = perfluorobutanesulfonic acid
PFHxS = perfluorohexane sulfonate
PFNA = perfluorononanoic acid
PFOA = perfluorooctanoic acid
PFOS = perfluorooctane sulfonate
SO = soil

Data Sources:
Bhate Environmental Associates, Inc., *Fifth Annual Remedial Action Operation Report, LHAAP-46 (Shallow and Intermediate Zones)*. Groundwater Flow Direction, 2020;
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North



Chemical	Residential Scenario Risk Screening Level		Industrial/Commercial Scenario Risk Screening Level
	Tap Water (ng/L)	Soil (mg/kg)	Soil (mg/kg)
PFOS	4	0.013	0.16
PFOA	6	0.019	0.25
PFBS	601	1.9	25
PFNA	6	0.019	0.25
PFHxS	39	0.13	1.6

LHAAP-PA3-SO-01	
Date	11/09/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-LHSMW41	
Date	11/29/2022
PFOS	3.7 U
PFOA	3.7 U
PFBS	3.7 U
PFNA	3.7 U
PFHxS	3.7 U

LHAAP-PA3-SO-12	
Date	11/09/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-47WW19	
Date	11/30/2022
PFOS	3.7 U
PFOA	3.7 U
PFBS	3.7 U
PFNA	3.7 U
PFHxS	3.7 U

LHAAP-LHSMW45	
Date	11/30/2022
PFOS	3.9 U
PFOA	3.9 U
PFBS	3.9 U
PFNA	3.9 U
PFHxS	3.9 U

LHAAP-PA3-SO-02	
Date	11/09/2022
Depth	0-2 ft bgs
PFOS	0.00096 U
PFOA	0.00096 U
PFBS	0.00096 U
PFNA	0.00096 U
PFHxS	0.00096 U

LHAAP-LHSMW44	
Date	11/29/2022
PFOS	3.6 U
PFOA	3.6 U
PFBS	3.6 U
PFNA	3.6 U
PFHxS	3.6 U

LHAAP-PA3-SO-03	
Date	11/09/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-PA3-SO-04		
Date	11/09/2022	11/28/2022
Depth	0-2 ft bgs	0-2 ft bgs
PFOS	0.0010 U	0.0011 U
PFOA	**0.0014**	**0.0011**
PFBS	0.0010 U	0.0011 U
PFNA	0.0010 U	0.0011 U
PFHxS	0.0010 U	0.0011 U

LHAAP-47WW49	
Date	11/30/2022
PFOS	5.4 U
PFOA	5.4 U
PFBS	5.4 U
PFNA	5.4 U
PFHxS	5.4 U

LHAAP-PA3-SO-10	
Date	11/08/2022
Depth	0-2 ft bgs
PFOS	0.0012 U
PFOA	0.0012 U
PFBS	0.0012 U
PFNA	0.0012 U
PFHxS	0.0012 U

LHAAP-PA3-SO-11	
Date	11/09/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-PA3-SO-09	
Date	11/08/2022
Depth	0-2 ft bgs
PFOS	0.00094 U [0.0012 U]
PFOA	0.00094 U [0.0012 U]
PFBS	0.00094 U [0.0012 U]
PFNA	0.00094 U [0.0012 U]
PFHxS	0.00094 U [0.0012 U]

LHAAP-LHSMW56R	
Date	11/29/2022
PFOS	3.6 U
PFOA	**85**
PFBS	3.6 U
PFNA	3.6 U
PFHxS	3.6 U

LHAAP-47WW48	
Date	11/29/2022
PFOS	3.6 U
PFOA	**2.5 J**
PFBS	3.6 U
PFNA	3.6 U
PFHxS	3.6 U

LHAAP-PA3-SO-08	
Date	11/08/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-47WW42	
Date	11/30/2022
PFOS	3.7 U [3.8 U]
PFOA	**6.2 [5.3]**
PFBS	3.7 U [3.8 U]
PFNA	3.7 U [3.8 U]
PFHxS	3.7 U [3.8 U]

LHAAP-PA3-SO-07	
Date	11/14/2022
Depth	0-2 ft bgs
PFOS	0.00097 U
PFOA	0.00097 U
PFBS	0.00097 U
PFNA	0.00097 U
PFHxS	0.00097 U

LHAAP-35BWW07	
Date	11/29/2022
PFOS	3.7 U [3.7 U]
PFOA	3.7 U [3.7 U]
PFBS	3.7 U [3.7 U]
PFNA	3.7 U [3.7 U]
PFHxS	3.7 U [3.7 U]

LHAAP-PA3-SO-06	
Date	11/09/2022
Depth	0-2 ft bgs
PFOS	0.00095 U
PFOA	0.00095 U
PFBS	0.00095 U
PFNA	0.00095 U
PFHxS	0.00095 U

LHAAP-PA3-SO-05	
Date	11/09/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-LHSMW54	
Date	11/29/2022
PFOS	3.7 U [3.8 U]
PFOA	3.7 U [3.8 U]
PFBS	3.7 U [3.8 U]
PFNA	3.7 U [3.8 U]
PFHxS	3.7 U [3.8 U]

0 500 1,000
Feet

Notes:
1. Groundwater results are reported in nanograms/liter (ng/L), or parts per trillion.
2. Soil results are reported in milligrams per kilogram (mg/kg), or parts per million.
3. Results in brackets are field duplicate sample results.
4. Bolded values indicate detections.
5. Results that exceed the Office of the Secretary of Defense (OSD) residential scenario risk screening levels (OSD 2022) are highlighted gray.
6. Areas not shaded green within the Former Installation Boundary are retained by the Army.

Qualifiers:
J = The analyte was positively identified; however the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for, but was not detected above the limit of quantitation (LOQ).

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Former Longhorn Army Ammunition Plant, TX

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Figure 7-5
Plant Area 3 (LHAAP-047) PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results

Legend

- Former Installation Boundary
- AOPI
- River/Stream (Perennial)
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Monitoring Well
- Former Building Used for Potentially PFAS-Containing Materials Activities
- United States Fish and Wildlife Service (USFWS) Refuge Area

Sampling Locations

- Groundwater (Monitoring Well)
- Sump-Related Soil

AOPI = area of potential interest
ft bgs = feet below ground surface
LHAAP = Longhorn Army Ammunition Plant
PFAS = per- and polyfluoroalkyl substances
PFBS = perfluorobutanesulfonic acid
PFHxS = perfluorohexane sulfonate
PFNA = perfluorononanoic acid
PFOA = perfluorooctanoic acid
PFOS = perfluorooctane sulfonate
SO = soil

Data Sources:
HDR, *LHAAP-47 Post Screening Investigation Addendum No. 2 Report (Shallow and Intermediate Zones)*, Groundwater Flow Direction, 2021;.
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North

Chemical	Residential Scenario Risk Screening Level
	Tap Water (ng/L)
PFOS	4
PFOA	6
PFBS	601
PFNA	6
PFHxS	39

LHAAP-04WW08	
Date	01/05/2023
PFOS	3.9 U
PFOA	3.9 U
PFBS	3.9 U
PFNA	3.9 U
PFHxS	3.9 U

LHAAP-04WW01	
Date	11/11/2022
PFOS	3.8 U
PFOA	3.8 U
PFBS	3.8 U
PFNA	3.8 U
PFHxS	3.8 U

LHAAP-04WW07	
Date	11/11/2022
PFOS	3.6 U
PFOA	3.6 U
PFBS	3.6 U
PFNA	3.6 U
PFHxS	3.6 U

Former Brine Tank (8,000-gallon)

Former Storage Tank (42,000-gallon)

Former Settling Tank (15,000-gallon)

Former Dike

Former Dike

Pilot Wastewater Treatment Plant (LHAAP-004)

Former Storage Tank (42,000-gallon)

Caddo Lake National Wildlife Refuge

Karnack

0 50 100 Feet

Notes:
1. Groundwater results are reported in nanograms/liter (ng/L), or parts per trillion.
2. Areas not shaded green within the Former Installation Boundary are retained by the Army.

Qualifiers:
U = The analyte was analyzed for, but was not detected above the limit of quantitation (LOQ).

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Figure 7-6
Pilot Wastewater Treatment Plant (LHAAP-004)
PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results

Legend

- Former Installation Boundary
- AOPI
- Historical Footprint
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Sampling Locations

- Groundwater (Monitoring Well)

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant
PFBS = perfluorobutanesulfonic acid
PFHxS = perfluorohexane sulfonate
PFNA = perfluorononanoic acid
PFOA = perfluorooctanoic acid
PFOS = perfluorooctane sulfonate

Data Sources:
Bhate Environmental Associates, Inc., *First Annual Remediation Action Operation Report, LHAAP-04 Former Pilot Wastewater Treatment Plant (Shallow Zone)*, Groundwater Flow Direction, 2021
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North

Chemical	Residential Scenario Risk Screening Level		Industrial/Commercial Scenario Risk Screening Level
	Tap Water (ng/L)	Soil (mg/kg)	Soil (mg/kg)
PFOS	4	0.013	0.16
PFOA	6	0.019	0.25
PFBS	601	1.9	25
PFNA	6	0.019	0.25
PFHxS	39	0.13	1.6

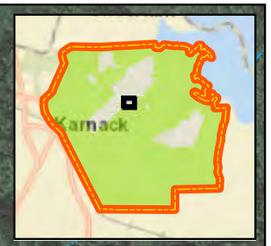
LHAAP-FWDF-SO-01	
Date	11/11/2022
Depth	0-2 ft bgs
PFOS	0.0010 UJ
PFOA	0.0010 UJ
PFBS	0.0010 UJ
PFNA	0.0010 UJ
PFHxS	0.0010 UJ

LHAAP-FWDF-SO-02	
Date	11/09/2022
Depth	0-2 ft bgs
PFOS	0.0012 U
PFOA	0.0012 U
PFBS	0.0012 U
PFNA	0.0012 U
PFHxS	0.0012 U

LHAAP-FWDF-SO-03	
Date	11/09/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-50WW12	
Date	11/14/2022
PFOS	3.7 U
PFOA	3.7 U
PFBS	3.7 U
PFNA	3.7 U
PFHxS	3.7 U

LHAAP-50WW13	
Date	11/14/2022
PFOS	3.4 U
PFOA	**22**
PFBS	3.4 U
PFNA	3.4 U
PFHxS	3.4 U



Goose Prairie Creek

Former Waste Disposal Facility (LHAAP-050)

Caddo Lake National Wildlife Refuge

0 100 200
Feet

Notes:
1. Groundwater results are reported in nanograms/liter (ng/L), or parts per trillion.
2. Soil results are reported in milligrams per kilogram (mg/kg), or parts per million.
3. Bolded values indicate detections.
4. Results that exceed the Office of the Secretary of Defense (OSD) residential scenario risk screening levels (OSD 2022) are highlighted gray.
5. Areas not shaded green within the Former Installation Boundary are retained by the Army.

Qualifiers:
U = The analyte was analyzed for, but was not detected above the limit of quantitation (LOQ).
UJ = The analyte was analyzed for but was not detected. The reported LOQ is approximate and may be inaccurate or imprecise.

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Figure 7-7
Former Waste Disposal Facility (LHAAP-050)
PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results

Legend

- Former Installation Boundary
- AOPI
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Sampling Locations

- Groundwater (Monitoring Well)
- Surface Soil

AOPI = area of potential interest
ft bgs = feet below ground surface
LHAAP = Longhorn Army Ammunition Plant
PFBS = perfluorobutanesulfonic acid
PFHxS = perfluorohexane sulfonate
PFNA = perfluorononanoic acid
PFOA = perfluorooctanoic acid
PFOS = perfluorooctane sulfonate
SO = soil

Data Sources:
Bhate Environmental Associates, Inc., *Contingency Remedy for LHAAP-50 (Shallow Zone)*, Groundwater Flow Direction, 2020
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North

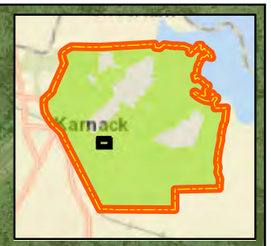
Chemical	Residential Scenario Risk Screening Level		Industrial/Commercial Scenario Risk Screening Level
	Tap Water (ng/L)	Soil (mg/kg)	Soil (mg/kg)
PFOS	4	0.013	0.16
PFOA	6	0.019	0.25
PFBS	601	1.9	25
PFNA	6	0.019	0.25
PFHxS	39	0.13	1.6

LHAAP-HWSA-SO-02	
Date	11/12/2022
Depth	0-2 ft bgs
PFOS	0.0010 U
PFOA	0.0010 U
PFBS	0.0010 U
PFNA	0.0010 U
PFHxS	0.0010 U

LHAAP-HWSA-SO-03	
Date	11/12/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-HWSA-SO-01	
Date	11/12/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-HWSA-GW-01	
Date	11/29/2022
PFOS	4.0 UJ [5.3 UJ]
PFOA	4.0 UJ [5.3 UJ]
PFBS	4.0 UJ [5.3 UJ]
PFNA	4.0 UJ [5.3 UJ]
PFHxS	4.0 UJ [5.3 UJ]



Building 811-1
Hazardous Waste Storage
Area (LHAAP-045)

Caddo Lake
National
Wildlife Refuge

Avenue E

0 100 200
Feet

Notes:
1. Groundwater results are reported in nanograms/liter (ng/L), or parts per trillion.
2. Soil results are reported in milligrams per kilogram (mg/kg), or parts per million.
3. Results in brackets are field duplicate sample results.
4. Areas not shaded green within the Former Installation Boundary are retained by the Army.
5. Regional groundwater is associated with the Wilcox Formation.

Qualifiers:
U = The analyte was analyzed for, but was not detected above the limit of quantitation (LOQ).
UJ = The analyte was analyzed for but was not detected. The reported LOQ is approximate and may be inaccurate or imprecise.

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Figure 7-8
Building 811-1
Hazardous Waste Storage Area (LHAAP-045)
PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results

Legend

- Former Installation Boundary
- AOPI
- Historical Building Footprint
- Stream (Intermittent)
- Surface Water Flow Direction
- Regional Groundwater Flow Direction
- United States Fish and Wildlife Service (USFWS) Refuge Area

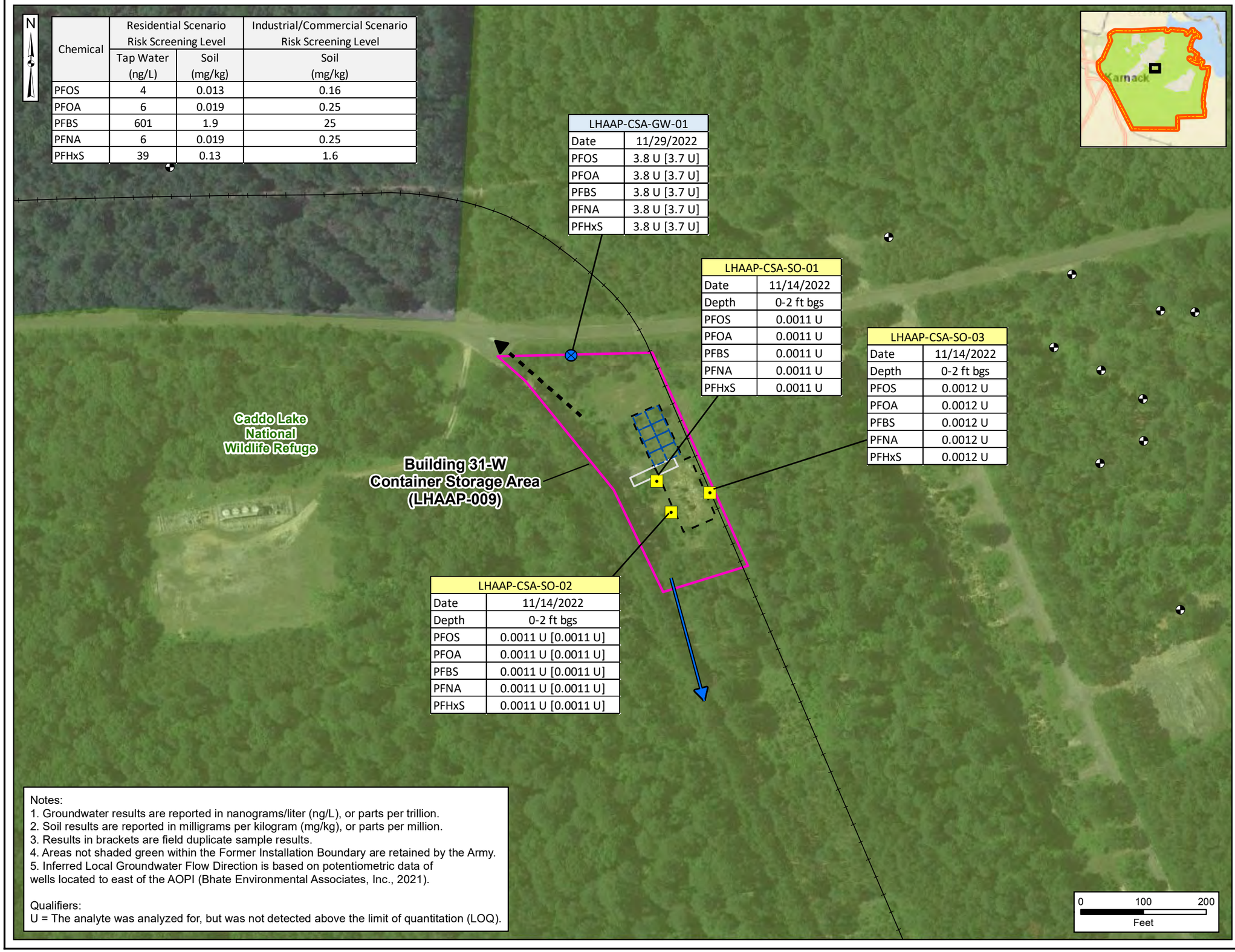
Sampling Locations

- Soil/Groundwater Boring
- Surface Soil

AOPI = area of potential interest
ft bgs = feet below ground surface
GW = groundwater
LHAAP = Longhorn Army Ammunition Plant
PFBS = perfluorobutanesulfonic acid
PFHxS = perfluorohexane sulfonate
PFNA = perfluorononanoic acid
PFOA = perfluorooctanoic acid
PFOS = perfluorooctane sulfonate
SO = soil

Data Sources:
Shaw Environmental, Inc., *Final Installation-Wide Baseline Ecological Risk Assessment*, Groundwater Flow Direction, 2007;
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North



Notes:
1. Groundwater results are reported in nanograms/liter (ng/L), or parts per trillion.
2. Soil results are reported in milligrams per kilogram (mg/kg), or parts per million.
3. Results in brackets are field duplicate sample results.
4. Areas not shaded green within the Former Installation Boundary are retained by the Army.
5. Inferred Local Groundwater Flow Direction is based on potentiometric data of wells located to east of the AOPI (Bhate Environmental Associates, Inc., 2021).

Qualifiers:
U = The analyte was analyzed for, but was not detected above the limit of quantitation (LOQ).

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Figure 7-9
Building 31-W Container Storage Area (LHAAP-009)
PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results

Legend

- Former Installation Boundary
- AOPI
- Historical Building Footprint
- Former Storage Cell
- Former Ramp
- Railroad
- Surface Water Flow Direction
- Inferred Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

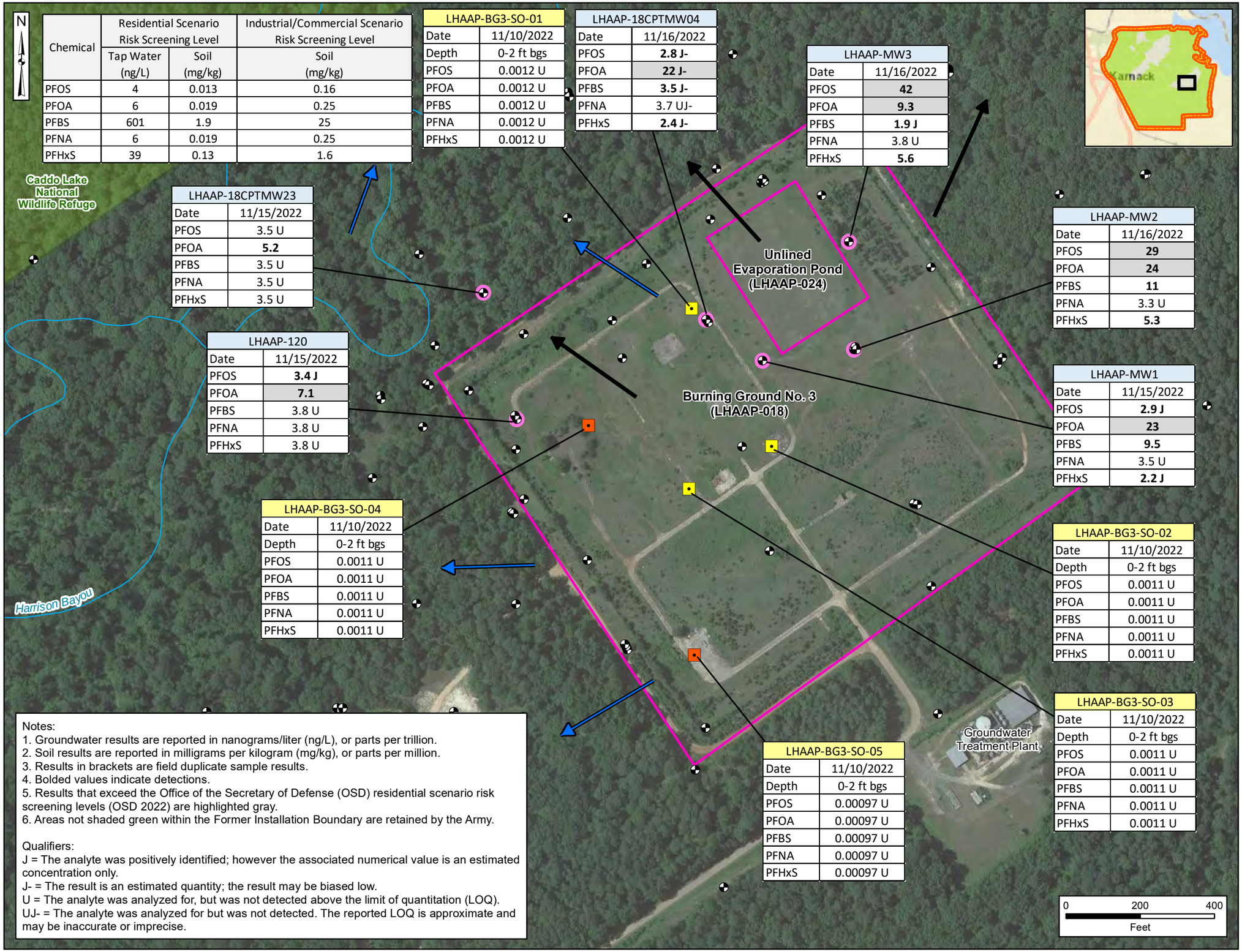
Sampling Locations

- Groundwater (Temporary Well)
- Surface Soil

AOPI = area of potential interest
ft bgs = feet below ground surface
GW = groundwater
LHAAP = Longhorn Army Ammunition Plant
PFBS = perfluorobutanesulfonic acid
PFHxS = perfluorohexane sulfonate
PFNA = perfluorononanoic acid
PFOA = perfluorooctanoic acid
PFOS = perfluorooctane sulfonate
SO = soil

Data Sources:
Bhate Environmental Associates, Inc., *Seventh Annual Remedial Action Operation Report, LHAAP-67 (Shallow Zone)*, Groundwater Flow Direction, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North



Chemical	Residential Scenario Risk Screening Level		Industrial/Commercial Scenario Risk Screening Level
	Tap Water (ng/L)	Soil (mg/kg)	Soil (mg/kg)
PFOS	4	0.013	0.16
PFOA	6	0.019	0.25
PFBS	601	1.9	25
PFNA	6	0.019	0.25
PFHxS	39	0.13	1.6

LHAAP-BG3-SO-01	
Date	11/10/2022
Depth	0-2 ft bgs
PFOS	0.0012 U
PFOA	0.0012 U
PFBS	0.0012 U
PFNA	0.0012 U
PFHxS	0.0012 U

LHAAP-18CPTMW04	
Date	11/16/2022
PFOS	**2.8 J-**
PFOA	**22 J-**
PFBS	**3.5 J-**
PFNA	3.7 UJ-
PFHxS	**2.4 J-**

LHAAP-MW3	
Date	11/16/2022
PFOS	**42**
PFOA	**9.3**
PFBS	**1.9 J**
PFNA	3.8 U
PFHxS	**5.6**

LHAAP-18CPTMW23	
Date	11/15/2022
PFOS	3.5 U
PFOA	**5.2**
PFBS	3.5 U
PFNA	3.5 U
PFHxS	3.5 U

LHAAP-MW2	
Date	11/16/2022
PFOS	**29**
PFOA	**24**
PFBS	**11**
PFNA	3.3 U
PFHxS	**5.3**

LHAAP-120	
Date	11/15/2022
PFOS	**3.4 J**
PFOA	**7.1**
PFBS	3.8 U
PFNA	3.8 U
PFHxS	3.8 U

LHAAP-MW1	
Date	11/15/2022
PFOS	**2.9 J**
PFOA	**23**
PFBS	**9.5**
PFNA	3.5 U
PFHxS	**2.2 J**

LHAAP-BG3-SO-04	
Date	11/10/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-BG3-SO-02	
Date	11/10/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-BG3-SO-03	
Date	11/10/2022
Depth	0-2 ft bgs
PFOS	0.0011 U
PFOA	0.0011 U
PFBS	0.0011 U
PFNA	0.0011 U
PFHxS	0.0011 U

LHAAP-BG3-SO-05	
Date	11/10/2022
Depth	0-2 ft bgs
PFOS	0.00097 U
PFOA	0.00097 U
PFBS	0.00097 U
PFNA	0.00097 U
PFHxS	0.00097 U

Notes:
1. Groundwater results are reported in nanograms/liter (ng/L), or parts per trillion.
2. Soil results are reported in milligrams per kilogram (mg/kg), or parts per million.
3. Results in brackets are field duplicate sample results.
4. Bolded values indicate detections.
5. Results that exceed the Office of the Secretary of Defense (OSD) residential scenario risk screening levels (OSD 2022) are highlighted gray.
6. Areas not shaded green within the Former Installation Boundary are retained by the Army.

Qualifiers:
J = The analyte was positively identified; however the associated numerical value is an estimated concentration only.
J- = The result is an estimated quantity; the result may be biased low.
U = The analyte was analyzed for, but was not detected above the limit of quantitation (LOQ).
UJ- = The analyte was analyzed for but was not detected. The reported LOQ is approximate and may be inaccurate or imprecise.

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Figure 7-10
Burning Ground No. 3 (LHAAP-018) and Unlined Evaporation Pond (LHAAP-024) PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results

Legend

- Former Installation Boundary
- AOPI
- River/Stream (Perennial)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Sampling Locations

- Groundwater (Monitoring Well)
- Sump-Related Soil
- Surface Soil

AOPI = area of potential interest
ft bgs = feet below ground surface
LHAAP = Longhorn Army Ammunition Plant
PFBS = perfluorobutanesulfonic acid
PFHxS = perfluorohexane sulfonate
PFNA = perfluorononanoic acid
PFOA = perfluorooctanoic acid
PFOS = perfluorooctane sulfonate
SO = soil

Data Sources:
HDR. *Record of Decision for LHAAP-18/24 (Shallow Zone)*, Groundwater Flow Direction, 2019;
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North

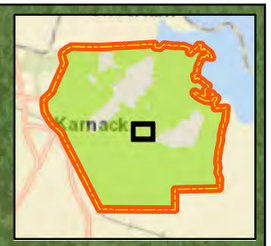
N

Chemical	Residential Scenario Risk Screening Level Tap Water (ng/L)
PFOS	4
PFOA	6
PFBS	601
PFNA	6
PFHxS	39

LHAAP-12WW24	
Date	11/16/2022
PFOS	3.5 UJ-
PFOA	**10 J-**
PFBS	3.5 UJ-
PFNA	3.5 UJ-
PFHxS	3.5 UJ-

LHAAP-12WW01	
Date	11/15/2022
PFOS	3.5 U
PFOA	**17**
PFBS	3.5 U
PFNA	3.5 U
PFHxS	3.5 U

LHAAP-12WW02	
Date	11/15/2022
PFOS	3.5 U
PFOA	**3.8**
PFBS	3.5 U
PFNA	3.5 U
PFHxS	3.5 U



Caddo Lake National Wildlife Refuge

Landfill 12 (LHAAP-012)

Central Creek

Avenue Q

0 150 300
Feet

Notes:
1. Groundwater results are reported in nanograms/liter (ng/L), or parts per trillion.
2. Bolded values indicate detections.
3. Results that exceed the Office of the Secretary of Defense (OSD) residential scenario risk screening levels (OSD 2022) are highlighted gray.
4. Areas not shaded green within the Former Installation Boundary are retained by the Army.

Qualifiers:
J- = The result is an estimated quantity; the result may be biased low.
U = The analyte was analyzed for, but was not detected above the limit of quantitation (LOQ).
UJ- = The analyte was analyzed for but was not detected. The reported LOQ is approximate and may be inaccurate or imprecise.

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Figure 7-11
Landfill 12 (LHAAP-012)
PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results

Legend

- Former Installation Boundary
- AOPI
- River/Stream (Perennial)
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Sampling Locations

- Groundwater (Monitoring Well)

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant
PFBS = perfluorobutanesulfonic acid
PFHxS = perfluorohexane sulfonate
PFNA = perfluorononanoic acid
PFOA = perfluorooctanoic acid

Data Sources:
Bhate Environmental Associates, Inc., *2019 Remedial Action Operation Report, Landfill 12 (LHAAP-12) (Shallow Zone)*, Groundwater Flow Direction, 2020;
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North

N

Chemical	Residential Scenario Risk Screening Level
	Tap Water (ng/L)
PFOS	4
PFOA	6
PFBS	601
PFNA	6
PFHxS	39

Central Creek

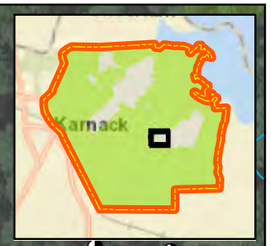
Caddo Lake National Wildlife Refuge

LHAAP-16WW16	
Date	11/16/2022
PFOS	3.8 U
PFOA	**2.1 J**
PFBS	3.8 U
PFNA	3.8 U
PFHxS	3.8 U

LHAAP-16WW36	
Date	11/16/2022
PFOS	40 U
PFOA	**95**
PFBS	40 U
PFNA	40 U
PFHxS	40 U

LHAAP-16WW13	
Date	11/16/2022
PFOS	**8.2**
PFOA	**620**
PFBS	3.6 U
PFNA	3.6 U
PFHxS	**4.6**

Landfill 16 (LHAAP-016)



Avenue Q

Harrison Bayou

0 100 200
Feet

Notes:
1. Groundwater results are reported in nanograms/liter (ng/L), or parts per trillion.
2. Bolded values indicate detections.
3. Results that exceed the Office of the Secretary of Defense (OSD) residential scenario risk screening levels (OSD 2022) are highlighted gray.
4. Areas not shaded green within the Former Installation Boundary are retained by the Army.

Qualifiers:
J = The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
U = The analyte was analyzed for, but was not detected above the limit of quantitation (LOQ).

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Figure 7-12
Landfill 16 (LHAAP-016) PFOS, PFOA, PFBS, PFNA, and PFHxS Analytical Results

Legend

- Former Installation Boundary
- AOPI
- River/Stream (Perennial)
- Stream (Intermittent)
- Surface Water Flow Direction
- Local Groundwater Flow Direction
- Monitoring Well
- United States Fish and Wildlife Service (USFWS) Refuge Area

Sampling Locations

- Groundwater (Monitoring Well)

AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant
PFBS = perfluorobutanesulfonic acid
PFHxS = perfluorohexane sulfonate
PFNA = perfluorononanoic acid
PFOA = perfluorooctanoic acid
PFOS = perfluorooctane sulfonate

Data Sources:
Bhate Environmental Associates, Inc., *First Annual Remedial Action Operation Report, LHAAP-16 Landfill (Shallow)*, Groundwater Flow Direction, 2022;
USGS, NHD Data, 2021;
Google Earth, Aerial Imagery

Coordinate System:
WGS 1984, UTM Zone 15 North

Source Medium	Release / Transport Mechanisms	Environmental Media	Release / Transport Mechanisms	Exposure Media	Exposure Route	Human Receptors: On-Site: Site Worker	On-Site: Resident	On-Site: Recreational User	Off-Site: All Types of Receptors [2]
Releases of AFFF to Soil and/or Paved Surfaces				Soil	Ingestion	●	○	●	●
					Dermal Contact	●	○	●	●
					Inhalation (dust)	●	○	●	●
	Desorption / Dissolution	Groundwater		Groundwater	Ingestion	◐	○	○	◐
					Dermal Contact	◐	○	○	◐
			Discharge / Recharge						
	Surface Runoff / Dissolution / Adsorption	Surface Water		Surface Water [1]	Ingestion	◐	○	◐	◐
					Dermal Contact	◐	○	◐	◐
			Adsorption / Desorption	Sediment	Ingestion	◐	○	◐	◐
					Dermal Contact	◐	○	◐	◐

Legend:

● = Complete Exposure Pathway

◐ = Potentially Complete Exposure Pathway

○ = Incomplete Exposure Pathway

Notes:
[1] Surface water exposure pathways for on-site workers and on-site recreational users describe incidental ingestion and dermal contact exposures. Surface water exposure pathway for off-site receptors describes a drinking water scenario as well as incidental ingestion and dermal contact during outdoor recreational activities.
[2] All types of off-site human receptors include drinking water receptors and recreational users.
AFFF = aqueous film-forming foam
AOPI = area of potential interest
PFAS = per- and polyfluoroalkyl substances
USAEC = United States Army Environmental Command

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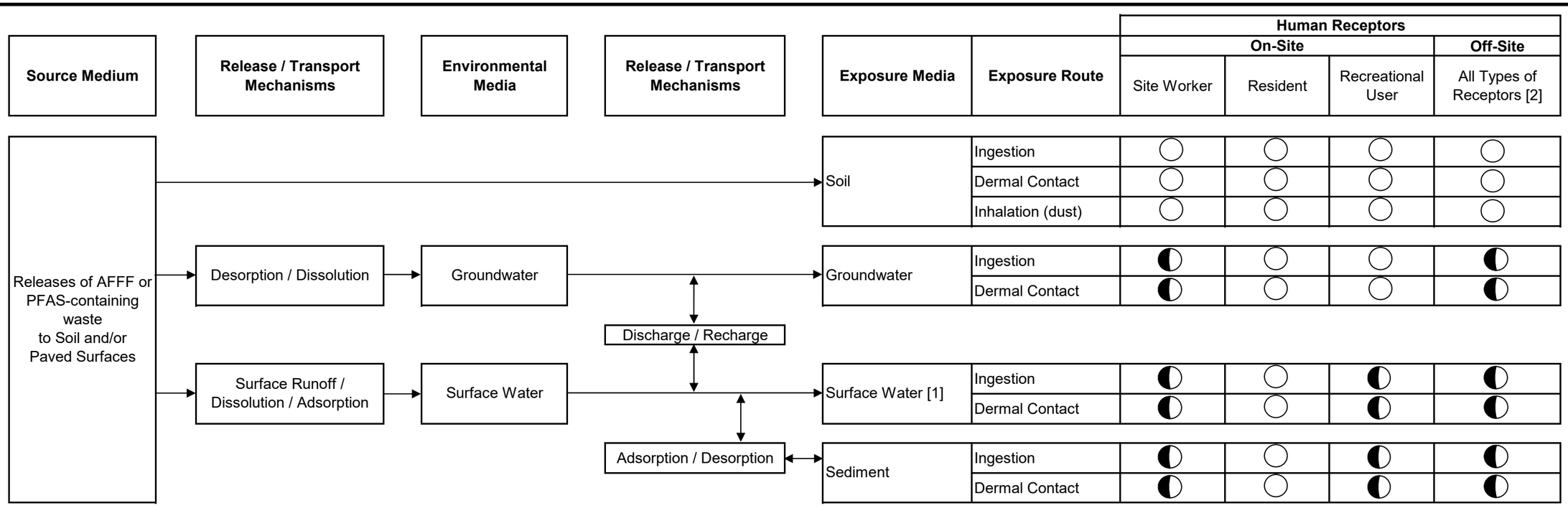
Conceptual Site Model for Old and New Fire Stations (Buildings 709 and 710) AOPI
USAEC PFAS Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, Texas

Figure 7-13



Source Medium	Release / Transport Mechanisms	Environmental Media	Release / Transport Mechanisms	Exposure Media	Exposure Route	Human Receptors: On-Site: Site Worker	On-Site: Resident	On-Site: Recreational User	Off-Site: All Types of Receptors [2]
Releases of AFFF or PFAS-containing waste to Soil and/or Paved Surfaces				Soil	Ingestion	○	○	○	○
					Dermal Contact	○	○	○	○
					Inhalation (dust)	○	○	○	○
	Desorption / Dissolution	Groundwater		Groundwater	Ingestion	◐	○	○	◐
					Dermal Contact	◐	○	○	◐
	Surface Runoff / Dissolution / Adsorption	Surface Water		Surface Water [1]	Ingestion	◐	○	◐	◐
					Dermal Contact	◐	○	◐	◐
			Adsorption / Desorption	Sediment	Ingestion	◐	○	◐	◐
					Dermal Contact	◐	○	◐	◐

Legend:

● = Complete Exposure Pathway
◐ = Potentially Complete Exposure Pathway
○ = Incomplete Exposure Pathway

Notes:
[1] Surface water exposure pathways for on-site workers and on-site recreational users describe incidental ingestion and dermal contact exposures. Surface water exposure pathway for off-site receptors describes a drinking water scenario as well as incidental ingestion and dermal contact during outdoor recreational activities.
[2] All types of off-site human receptors include drinking water receptors and recreational users.
AFFF = aqueous film-forming foam
AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant
PFAS = per- and polyfluoroalkyl substances
USAEC = United States Army Environmental Command

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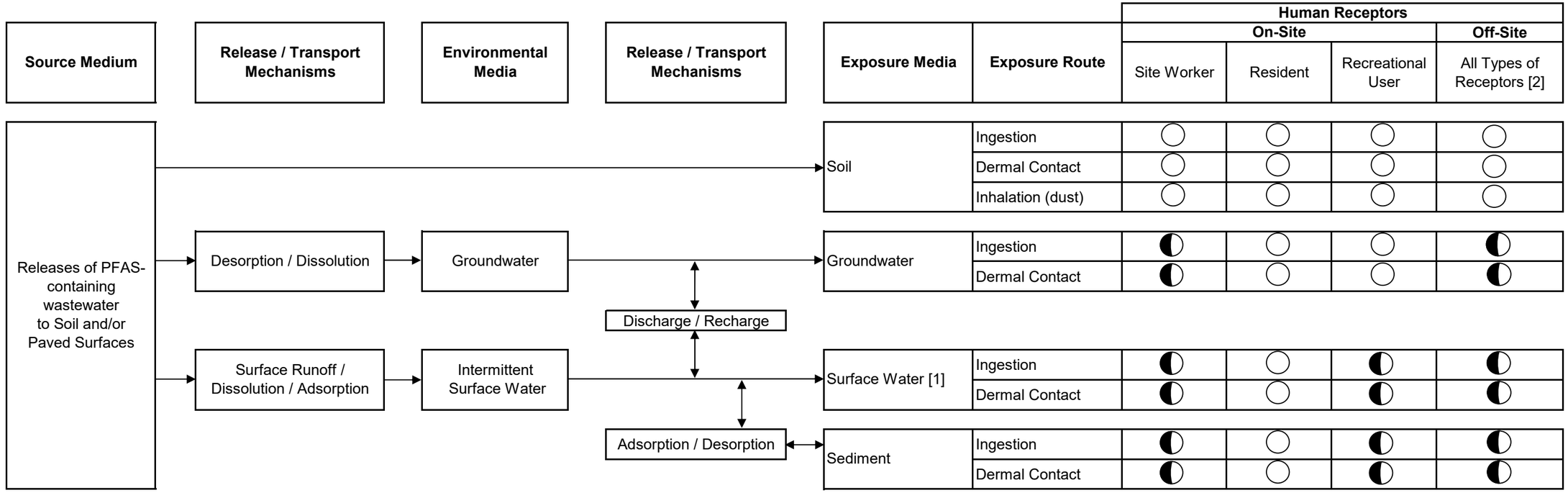
Conceptual Site Model for Building 744-A Vehicle Wash Rack (LHAAP-056) AOPI
USAEC PFAS Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, Texas

Figure 7-14



Legend:

- ● = Complete Exposure Pathway
- ◐ = Potentially Complete Exposure Pathway
- ○ = Incomplete Exposure Pathway

Notes:
[1] Surface water exposure pathways for on-site workers and on-site recreational users describe incidental ingestion and dermal contact exposures. Surface water exposure pathway for off-site receptors describes a drinking water scenario as well as incidental ingestion and dermal contact during outdoor recreational activities.
[2] All types of off-site human receptors include drinking water receptors and recreational users.
AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant
PFAS = per- and polyfluoroalkyl substances
USAEC = United States Army Environmental Command

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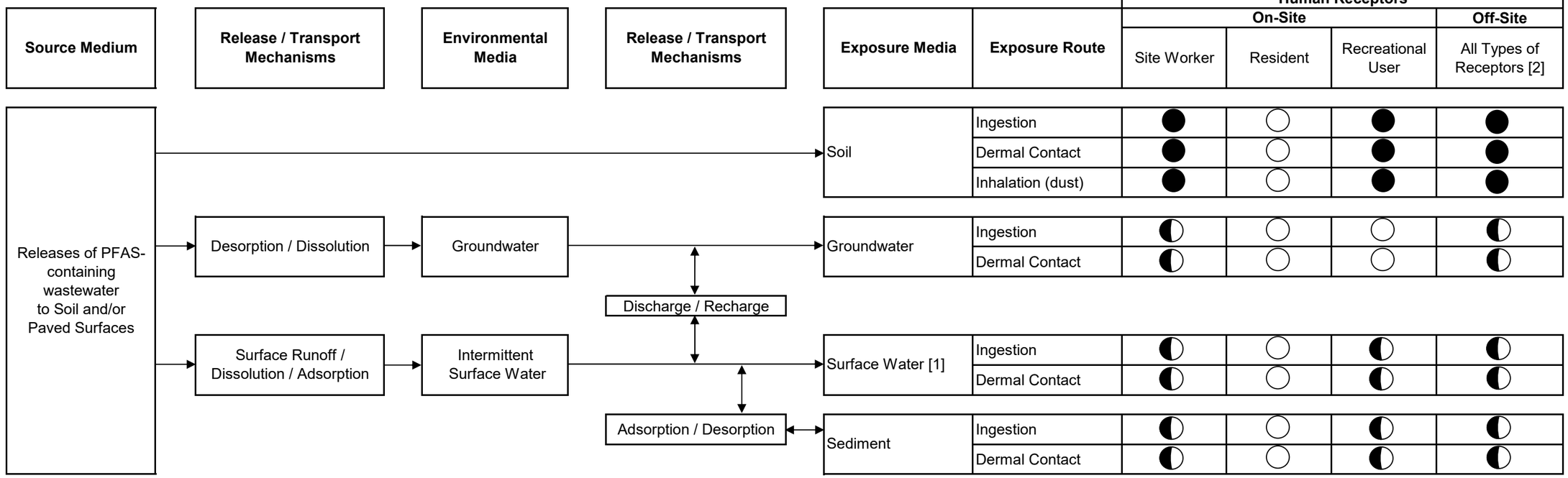
Conceptual Site Model for Plant Area 2 (LHAAP-046) AOPI
USAEC PFAS Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, Texas

Figure 7-15



Legend:

- ● = Complete Exposure Pathway
- ◐ = Potentially Complete Exposure Pathway
- ○ = Incomplete Exposure Pathway

Notes:
[1] Surface water exposure pathways for on-site workers and on-site recreational users describe incidental ingestion and dermal contact exposures. Surface water exposure pathway for off-site receptors describes a drinking water scenario as well as incidental ingestion and dermal contact during outdoor recreational activities.
[2] All types of off-site human receptors include drinking water receptors and recreational users.
AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant
PFAS = per- and polyfluoroalkyl substances
USAEC = United States Army Environmental Command

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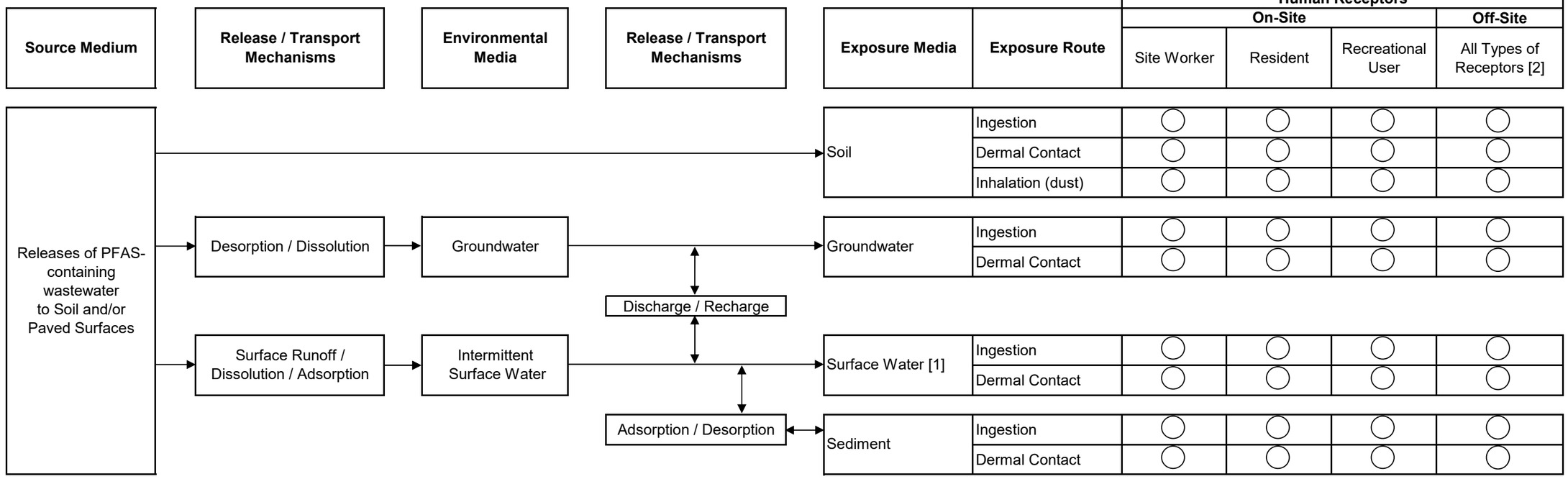
Conceptual Site Model for Plant Area 3 (LHAAP-047) AOPI
USAEC PFAS Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, Texas

Figure 7-16



Source Medium	Release / Transport Mechanisms	Environmental Media	Release / Transport Mechanisms	Exposure Media	Exposure Route	Human Receptors: On-Site: Site Worker	On-Site: Resident	On-Site: Recreational User	Off-Site: All Types of Receptors [2]
Releases of PFAS-containing wastewater to Soil and/or Paved Surfaces				Soil	Ingestion	◯	◯	◯	◯
					Dermal Contact	◯	◯	◯	◯
					Inhalation (dust)	◯	◯	◯	◯
	Desorption / Dissolution	Groundwater		Groundwater	Ingestion	◯	◯	◯	◯
					Dermal Contact	◯	◯	◯	◯
	Surface Runoff / Dissolution / Adsorption	Intermittent Surface Water		Surface Water [1]	Ingestion	◯	◯	◯	◯
					Dermal Contact	◯	◯	◯	◯
				Sediment	Ingestion	◯	◯	◯	◯
					Dermal Contact	◯	◯	◯	◯

Legend:

- ● = Complete Exposure Pathway
- ◐ = Potentially Complete Exposure Pathway
- ◯ = Incomplete Exposure Pathway

Notes:
[1] Surface water exposure pathways for on-site workers and on-site recreational users describe incidental ingestion and dermal contact exposures. Surface water exposure pathway for off-site receptors describes a drinking water scenario as well as incidental ingestion and dermal contact during outdoor recreational activities.
[2] All types of off-site human receptors include drinking water receptors and recreational users.
AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant
PFAS = per- and polyfluoroalkyl substances
USACE = United States Army Environmental Command

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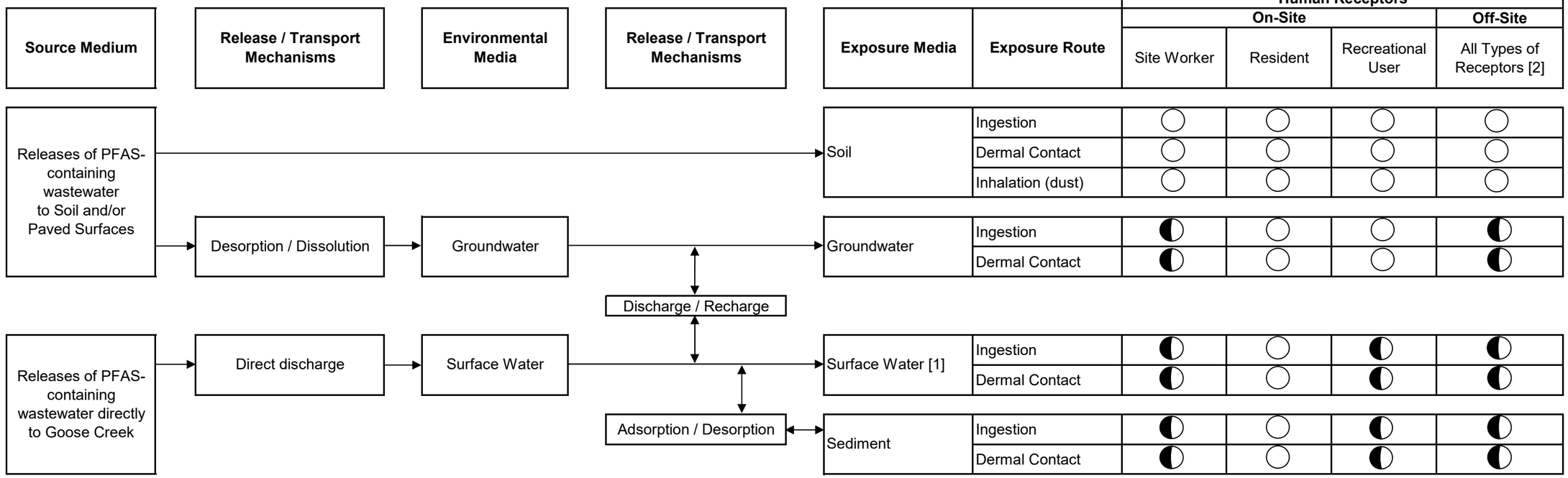
Conceptual Site Model for Pilot Wastewater Treatment Plant (LHAAP-004), Building 811-1 Hazardous Waste Storage Area (LHAAP-045), and Building 31-W Container Storage Area (LHAAP-009) AOPIs
USAEC PFAS Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, Texas

Figure 7-17



Legend:

- ● = Complete Exposure Pathway
- ◐ = Potentially Complete Exposure Pathway
- ○ = Incomplete Exposure Pathway

Notes:
[1] Surface water exposure pathways for on-site workers and on-site recreational users describe incidental ingestion and dermal contact exposures. Surface water exposure pathway for off-site receptors describes a drinking water scenario as well as incidental ingestion and dermal contact during outdoor recreational activities.
[2] All types of off-site human receptors include drinking water receptors and recreational users.
AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant
PFAS = per- and polyfluoroalkyl substances
USAEC = United States Army Environmental Command

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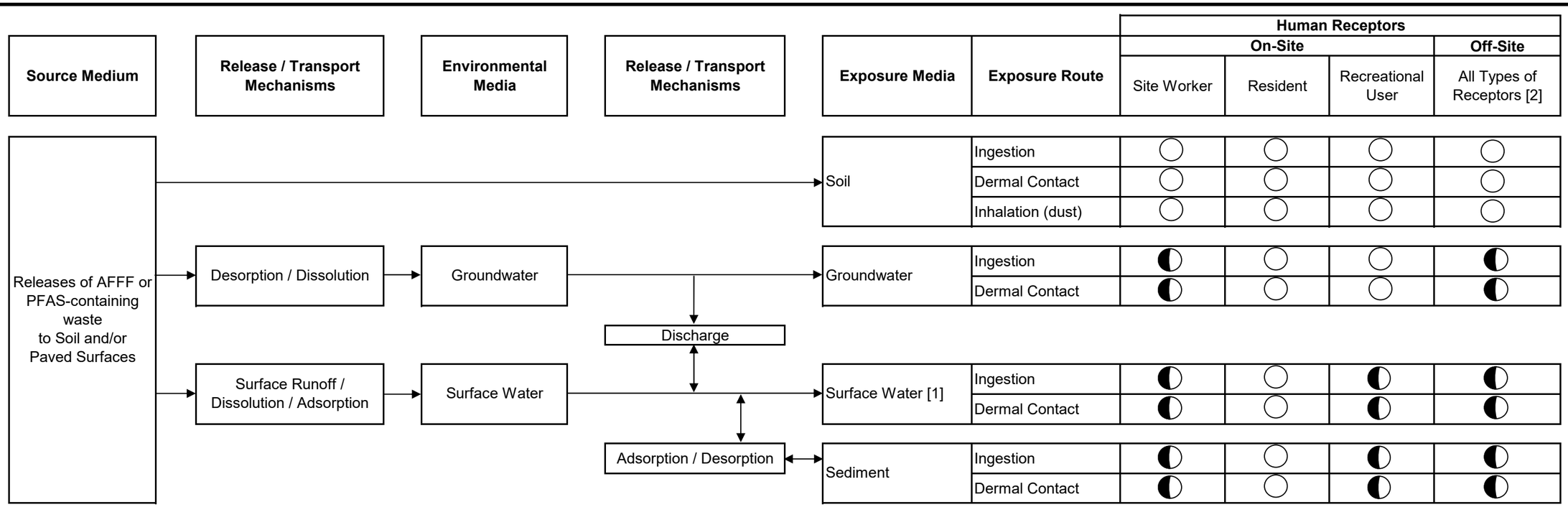
Conceptual Site Model for Former Waste Disposal Facility (LHAAP-050) AOPI
USAEC PFAS Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, Texas

Figure 7-18



Legend:

● = Complete Exposure Pathway

◐ = Potentially Complete Exposure Pathway

○ = Incomplete Exposure Pathway

Notes:
[1] Surface water exposure pathways for on-site workers and on-site recreational users describe incidental ingestion and dermal contact exposures. Surface water exposure pathway for off-site receptors describes a drinking water scenario as well as incidental ingestion and dermal contact during outdoor recreational activities.
[2] All types of off-site human receptors include drinking water receptors and recreational users.
AFFF = aqueous film-forming foam
AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant
PFAS = per- and polyfluoroalkyl substances
USAEC = United States Army Environmental Command

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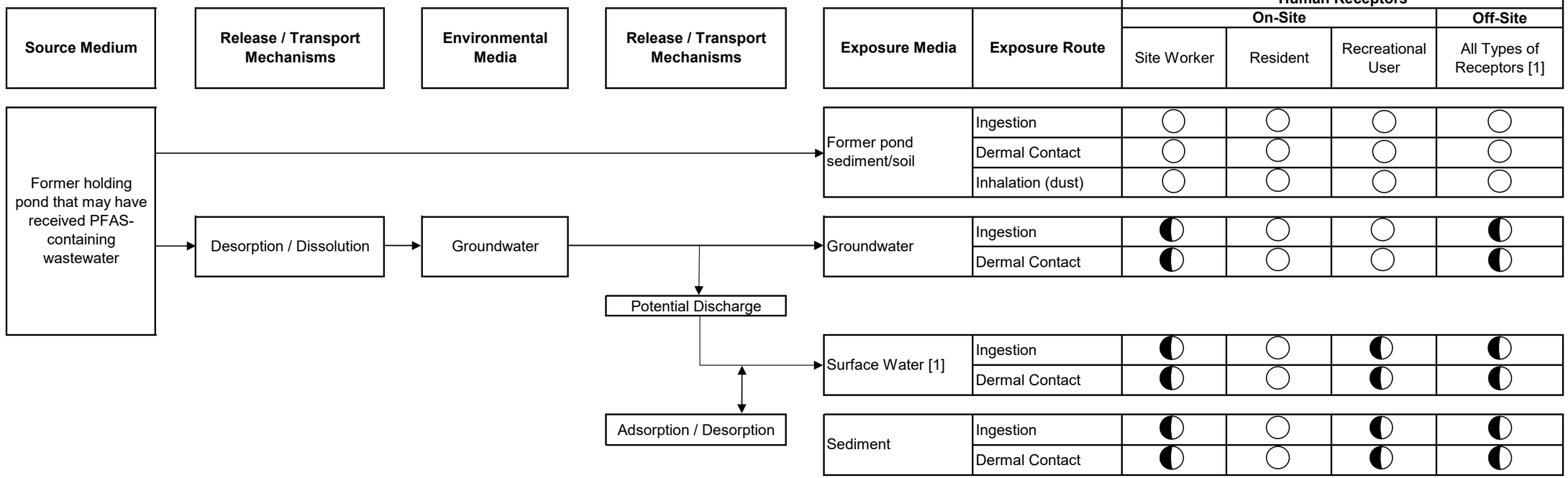
Conceptual Site Model for Burning Ground No. 3 (LHAAP-018) AOPI
USAEC PFAS Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, Texas

Figure 7-19



Exposure Media	Exposure Route	Human Receptors: On-Site: Site Worker	On-Site: Resident	On-Site: Recreational User	Off-Site: All Types of Receptors [1]
Former pond sediment/soil	Ingestion	○	○	○	○
	Dermal Contact	○	○	○	○
	Inhalation (dust)	○	○	○	○
Groundwater	Ingestion	◐	○	○	◐
	Dermal Contact	◐	○	○	◐
Surface Water [1]	Ingestion	◐	○	◐	◐
	Dermal Contact	◐	○	◐	◐
Sediment	Ingestion	◐	○	◐	◐
	Dermal Contact	◐	○	◐	◐

Legend:

- ● = Complete Exposure Pathway
- ◐ = Potentially Complete Exposure Pathway
- ○ = Incomplete Exposure Pathway

Notes:
[1] Surface water exposure pathways for on-site workers and on-site recreational users describe incidental ingestion and dermal contact exposures. Surface water exposure pathway for off-site receptors describes a drinking water scenario as well as incidental ingestion and dermal contact during outdoor recreational activities.
[2] All types of off-site human receptors include drinking water receptors and recreational users.
AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant
PFAS = per- and polyfluoroalkyl substances
USAEC = United States Army Environmental Command

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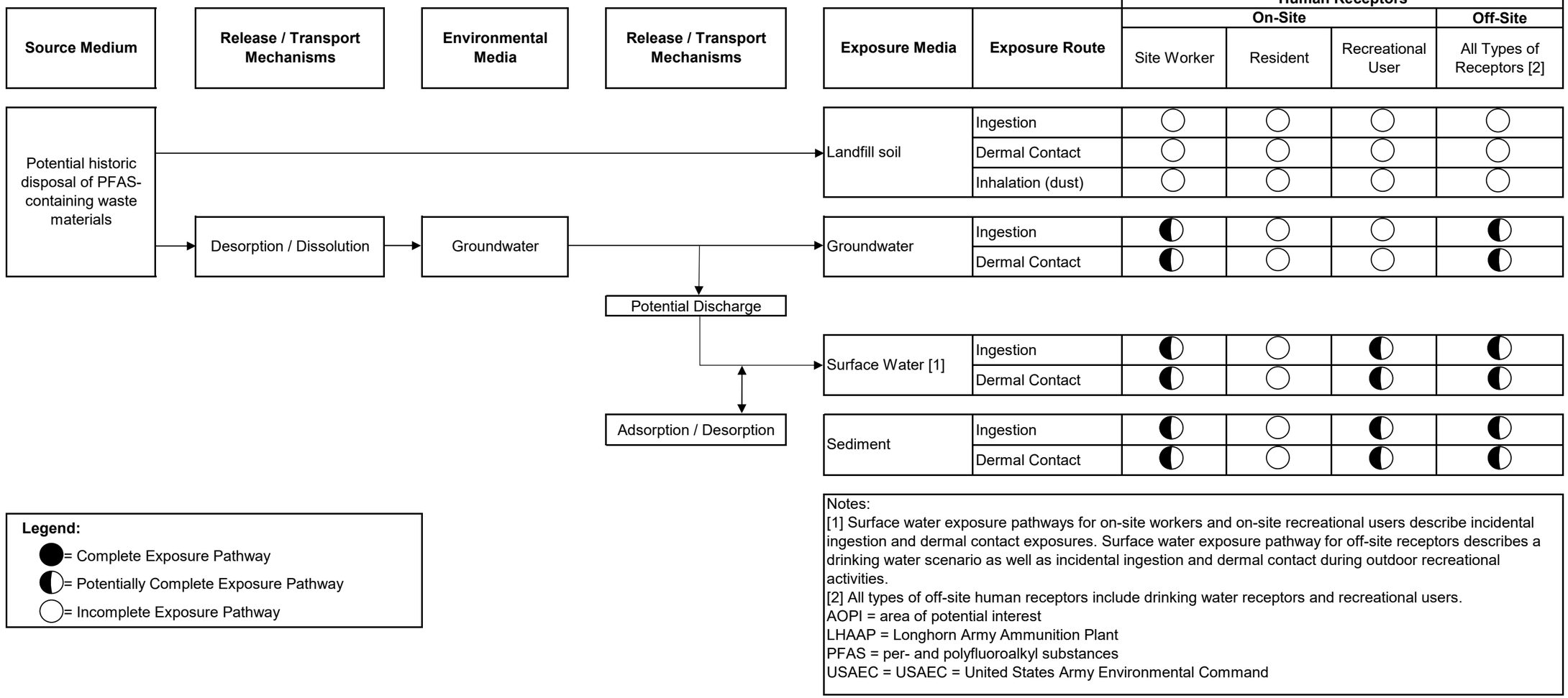
Conceptual Site Model for Unlined Evaporation Pond (LHAAP-024) AOPI
USAEC PFAS Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, Texas

Figure 7-20



Legend:

- ● = Complete Exposure Pathway
- ◐ = Potentially Complete Exposure Pathway
- ○ = Incomplete Exposure Pathway

Notes:
[1] Surface water exposure pathways for on-site workers and on-site recreational users describe incidental ingestion and dermal contact exposures. Surface water exposure pathway for off-site receptors describes a drinking water scenario as well as incidental ingestion and dermal contact during outdoor recreational activities.
[2] All types of off-site human receptors include drinking water receptors and recreational users.
AOPI = area of potential interest
LHAAP = Longhorn Army Ammunition Plant
PFAS = per- and polyfluoroalkyl substances
USAEC = USAEC = United States Army Environmental Command

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Conceptual Site Model for Landfill 12 (LHAAP-012) and Landfill 16 (LHAAP-016) AOPIs
USAEC PFAS Preliminary Assessment / Site Inspection
Former Longhorn Army Ammunition Plant, Texas

Figure 7-21

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Arcadis U.S., Inc.

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Suite 210

Hanover, Maryland 21076

Tel 410 987 0032

Fax 410 987 4392

www.arcadis.com

APPENDIX A

Office of the Secretary of Defense. 2022. Memorandum: Investigating Per- and Polyfluoroalkyl Substances within the Department of Defense Cleanup Program. July 06.

OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE
3400 DEFENSE PENTAGON
WASHINGTON, DC 20301-3400

ENERGY, INSTALLATIONS,
AND ENVIRONMENT

July 6, 2022

MEMORANDUM FOR ASSISTANT SECRETARY OF THE ARMY (INSTALLATIONS, ENERGY AND ENVIRONMENT)
ASSISTANT SECRETARY OF THE NAVY (ENERGY, INSTALLATIONS AND ENVIRONMENT)
ASSISTANT SECRETARY OF THE AIR FORCE (INSTALLATIONS, ENVIRONMENT AND ENERGY)
DIRECTOR, NATIONAL GUARD BUREAU (JOINT STAFF, J8)
DIRECTOR, DEFENSE LOGISTICS AGENCY (INSTALLATION MANAGEMENT)

SUBJECT: Investigating Per- and Polyfluoroalkyl Substances within the Department of Defense Cleanup Program

The Department of Defense (DoD) conducts cleanup under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), and the Defense Environmental Restoration Program (DERP). Our goal is protection of human health and the environment in a risk-based, fiscally-sound manner. This memorandum provides clarifying technical guidance on the investigation of perfluorooctane sulfonate (PFOS), perfluorooctanoic acid (PFOA), perfluorobutanesulfonic acid (PFBS), perfluorononanoic acid (PFNA), perfluorohexane sulfonate (PFHxS), and hexafluoropropylene oxide dimer acid (HFPO-DA, or GenX), based on recent U.S. Environmental Protection Agency (EPA) information. This guidance is applicable to investigating these chemicals at Environmental Restoration Account-funded, Base Realignment and Closure Account-funded, and federal Air and Army Guard Operation and Maintenance account-funded sites.

This revised memorandum accounts for the May 2022 EPA screening levels for PFOS, PFOA, PFNA, PFHxS and HFPO-DA. PFBS remains unchanged since the May 2021 update. EPA has provided screening levels for these PFAS compounds using, updated, final, peer-reviewed information from the Agency for Toxic Substances and Disease Registry[1]and the EPA Office of Water.[2]

PFOS, PFOA, PFBS, PFNA, PFHxS, and HFPO-DA are part of a larger class of chemicals known as per- and polyfluoroalkyl substances (PFAS). PFAS shall be addressed in the same manner as other contaminants of concern within the DERP. HFPO-DA has primarily

[1] Agency for Toxic Substances and Disease Registry (ATSDR), May 2021. *Toxicological Profile for Perfluoroalkyls*.

[2] U.S. Environmental Protection Agency (EPA), *Provisional Peer-Reviewed Toxicity Values for Perfluorobutane Sulfonic Acid (CASRN 375-73-5)* and October 2021. *Human Health Toxicity Values for Hexafluoropropylene Oxide (HFPO) Dimer Acid and Its Ammonium Salt (CASRN 13252-13-6 and CASRN 62037-80-3), Also Known as "GenX Chemicals."* Office of Water.

been used as a replacement for PFOA in the manufacture of fluoropolymers, so it is not likely to have been released at the vast majority of DoD properties. As with other chemicals, the conceptual site model should be used to determine the necessity for addressing HFPO-DA.

Under CERCLA, site-specific regional screening levels[3] (RSLs) for these chemicals are shown in the EPA RSL Tables or may be calculated using the EPA online calculator. The values are provided in the attachment. When multiple PFAS are encountered at a site, RSLs set at a hazard quotient of 0.1 are used for screening purposes. These RSLs should be used to determine if further investigation in the remedial investigation (RI) phase is warranted or if no further action is required. Consistent with the CERCLA process, DoD Components will incorporate these screening values into ongoing and future preliminary assessment/site inspections (PA/SI) and will reevaluate completed PA/SIs with a determination of "no further action," to assess if an RI is now necessary.

During the RI phase, the RfDs for PFOS, PFOA, PFBS, PFNA, PFHxS, and HPFO-DA and the oral cancer slope factor (CSF) for PFOA of 0.07 $(mg/kg\text{-}day)^{-1}$ will be used to conduct site specific risk assessments in accordance with Risk Assessment Guidance for Superfund Volume I, Part A (EPA/540/1-89/002, December 1989).[4] Site-specific risk assessment results will depend on the levels of PFAS found at each site, and will be used to determine if any necessary remedial actions are required in accordance with CERCLA, DERP, and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP).

This memorandum is effective immediately and supersedes and cancels the Assistant Secretary of Defense for Sustainment memorandum, "Investigating Per- and Polyfluoroalkyl Substances within the Department of Defense Cleanup Program," September 15, 2021. The point of contact for this matter is Ms. Alexandria Long, at 703-571-9061 or alexandria.d.long.civ@mail.mil.

MCANDREW.MICHAEL.1043243000
Digitally signed by MCANDREW.MICHAEL.1043243000
Date: 2022.07.06 13:39:15 -04'00'

Michael McAndrew
Deputy Assistant Secretary of Defense for Construction
Performing the Duties of Principal Deputy Assistant Secretary of Defense for Energy, Installations, and Environment

Attachment:
As stated

[3] For sites on the National Priorities List, the DoD Components will use the EPA site specific screening levels, if provided.
[4] Currently there are six PFAS – PFOS, PFOA, PFBS, PFNA, PFHxS, HPFO-DA (GenX) – with established toxicity values that DoD can use to perform a baseline risk assessment to determine whether remedial action is needed under CERCLA.

Attachment: Risk Screening Levels Calculated for PFOS, PFOA, PFBS, PFNA, PFHxA, HFPO-DA in Groundwater or Soil Using EPA's RSL Calculator

Chemical	Carcinogenic Slope Factor - Oral (SF) (mg/kg-day)-1	Non-Carcinogenic Reference Dose (RfD) (mg/kg-day)	Residential Scenario Screening Levels Calculated Using EPA RSL Calculator								Industrial/Commercial Composite Worker Screening Levels Calculated Using EPA RSL Calculator			
			Tap Water (ng/L or pptr)				Soil (mg/kg or ppm)				Soil (mg/kg or ppm)			
			HQ = 0.1	HQ = 1.0	ILCR = 1E-06	ILCR = 1E-04	HQ = 0.1	HQ = 1.0	ILCR = 1E-06	ILCR = 1E-04	HQ = 0.1	HQ = 1.0	ILCR = 1E-06	ILCR = 1E-04
PFOS	NA	2.00E-06	4	40	NA	NA	0.013	0.13	NA	NA	0.16	1.6	NA	NA
PFOA	7.00E-02	3.00E-06	6	60	1,100	111,000	0.019	0.19	7.8	775	0.25	2.5	33	3,280
PFBS	NA	3.00E-04	601	6010	NA	NA	1.9	19	NA	NA	25	250	NA	NA
PFNA	NA	3.00E-06	6	59	NA	NA	0.019	0.19	NA	NA	0.25	2.5	NA	NA
PFHxS	NA	2.00E-05	39	394	NA	NA	0.13	1.30	NA	NA	1.6	16	NA	NA
HFPO-DA	NA	3.00E-06	6	60	NA	NA	0.023	0.23	NA	NA	0.35	3.5	NA	NA

HQ=Hazard Quotient
ILCR=Incremental Lifetime Cancer Risk
NA=Not available/applicable

NOTES:

- Apply the Tap Water RSLs to groundwater used as drinking water.
- The table represents screening levels based on residential and industrial/commercial worker receptor scenarios for either direct ingestion of groundwater (residential scenario only) or incidental ingestion of soil (both residential and composite worker scenarios).
- Default exposure assumptions for each potential receptor scenario, contained in EPA's RSL Calculator on May 2022.
- Final peer reviewed toxicity values considered valid for risk assessment, and the screening levels may be found in EPA's RSL table or EPA's RSL calculator used to develop them.
- Other potential receptor scenarios (e.g., recreational user, site trespasser, construction worker) are not included in the above table, but could be relevant receptors at a site potentially containing PFAS. These receptors, and their associated exposure scenarios, should be further considered in the scoping phase and completion of the Baseline Human Health Risk Assessment typically completed during an RI.
- The shaded values represent conservative screening levels in groundwater or soil that when exceeded should be considered a contaminant of potential concern in the risk assessment process and calculations of site-specific risk posed.

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Appendix B
Installation Preliminary Assessment / Site Inspection Quality
Per- and Polyfluoroalkyl Substances Preliminary Assessment/Site Inspection
Former Longhorn Army Ammunition Plant, Texas

Action Item *(Target Date)*	Comments	Completed Date	Completed By
Preliminary Assessment			
Pre-Site Visit			
Kickoff teleconference *(2 months prior to site visit)*	Arcadis U.S., Inc. (Arcadis) hosted a teleconference to introduce the U.S. Army Environmental Command (USAEC) per- and polyfluoroalkyl substances program with the Former Longhorn Army Ammunition Plant (LHAAP), the U.S. Army Corps of Engineers (USACE), and the USAEC.	26 January 2021	D Schmidt, K Schrupp
Kickoff teleconference meeting minutes *(1 week after teleconference)*	Deliverable was reviewed by Arcadis Regional Lead and Technical Editor prior to distribution to the Former LHAAP, the USACE, and the USAEC.	03 February 2021	D Schmidt
Read-ahead package *(1 week prior to site visit)*	Deliverable was reviewed by Arcadis Regional Lead and Technical Editor prior to distribution to the Former LHAAP, the USACE, and the USAEC.	01 March 2021	D Schmidt
Site Visit			
Notification	Arcadis regional lead finalized site visit logistics and requested contact information for interviewees with submission of read-ahead package.	01 March 2021	D Schmidt
In-briefing	Arcadis hosted an in-briefing for several personnel, including USACE and USAEC representatives.	08 March 2021	D Schmidt
Site visit records search	Arcadis collected various documents and records during the site visit.	08 March 2021	D Schmidt, M Madl
Site visit personnel interviews	Arcadis interviewed several personnel during the site visit, completing interview logs for each interviewee.	08 March 2021	D Schmidt, M Madl
Site reconnaissance trips	Arcadis conducted site reconnaissance at eight areas during the site visit, completing a site reconnaissance logs for the area visited.	08 March 2021	D Schmidt, M Madl
Post-Site Visit			
Site Visit Trip Report *(submittal and closing of pending action items within 3 weeks of site visit)*	Deliverable was reviewed by Arcadis Regional Lead and Technical Editor prior to distribution to the Former LHAAP, the USACE, and the USAEC.	26 March 2021	D Schmidt
Post-site visit teleconference *(within 4 weeks of site visit)*	Arcadis hosted a discussion of proposed AOPIs with the Former LHAAP, the USACE, and USAEC staff.	20 April 2021	D Schmidt

Appendix B
Installation Preliminary Assessment / Site Inspection Quality
Per- and Polyfluoroalkyl Substances Preliminary Assessment/Site Inspection
Former Longhorn Army Ammunition Plant, Texas

Action Item *(Target Date)*	Comments	Completed Date	Completed By
Site Inspection			
Site inspection (SI) kickoff & scoping teleconference	Arcadis hosted a kickoff meeting with the Former LHAAP, USAEC and the USACE to discuss sampling options for the site inspection.	14 June 2022	D Schmidt, K Schrupp
SI kickoff & scoping teleconference meeting minutes	Deliverable was reviewed by Arcadis Regional Lead and Technical Editor prior to distribution to the Former LHAAP the USACE, and the USAEC.	20 June 2022	D Schmidt
Draft Quality Assurance Project Plan (QAPP) Addendum and Site Safety and Health Plan (SSHP)	Arcadis provided a draft proposed scope of work based on the determination of AOPIs discussed during the post-site-visit teleconference and the SI kickoff meeting. Deliverable was reviewed by the Arcadis Regional Lead, Technical Lead, Quality Control Reviewer, and Technical Editor prior to distribution to the Former LHAAP, the USACE, and the USAEC.	02 August 2022	D Schmidt, S Davis
Submittal of responses to comments	The comments were addressed as agreed upon and the response to comment matrix detailing the completed revisions was submitted to the Former LHAAP, the USACE, and the USAEC.	28 September 2022	D Schmidt, S Davis
Final QAPP Addendum and SSHP	Arcadis revised the draft document per comments from the Former LHAAP, the USACE, and the USAEC prior to finalizing the document.	11 November 2022	D Schmidt, S Davis
Site inspection planning	Arcadis regional lead finalized site inspection logistics and completed all access requirements, scheduling, and/or permits necessary.	September - November 2022	D Schmidt, S Davis
Site inspection field work *(timing dependent on availability of subcontractors)*	Arcadis completed the scope of work outlined in the QAPP Addendum with drilling subcontractors GSI Mid-Atlantic.	08 November 2022 - 01 December 2022	D Luneau, L Gloria
Data Usability Summary Report *(within 8 weeks of receipt of all laboratory data packages)*	An Arcadis chemist, independent of the project team, validated and verified all analytical data collected during the SI and summarized the data usability in a report to be included as an appendix to the Preliminary Assessment/Site Inspection Report (PA/SI Report).	02 March 2023	L Mott

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Appendix B
Installation Preliminary Assessment / Site Inspection Quality
Per- and Polyfluoroalkyl Substances Preliminary Assessment/Site Inspection
Former Longhorn Army Ammunition Plant, Texas

Action Item *(Target Date)*	Comments	Completed Date	Completed By
Preliminary Assessment/Site Inspection Report			
Draft PA/SI Report *(submittal within 90 days of site inspection data validation or 30 days after the site inspection results discussion, whichever is later)*	Deliverable was reviewed by Arcadis Regional Lead, Quality Control Reviewer, and Technical Editor prior to distribution to the Former LHAAP, the USACE, and the USAEC.	14 April 2023	D Schmidt, S Davis
Submittal of responses to comments	The comments were addressed and the response to comment matrix detailing the completed revisions was submitted to the Former LHAAP, the USACE, and the USAEC.	01 June 2023	D Schmidt, S Davis
Draft Final PA/SI Report	Deliverable was reviewed by Arcadis Regional Lead, Quality Control Reviewer, and Technical Editor prior to distribution to the Former LHAAP, the USACE, and the USAEC.	13 June 2023	D Schmidt, S Davis
Draft Final V2 PA/SI Report	Arcadis provided the second version of the draft final PA/SI Report agreed upon by the installation, USACE, and USAEC for the installation to provide to regulators.	28 June 2023	D Schmidt, S Davis
Draft Final V3 PA/SI Report	Arcadis provided the third version of the draft final PA/SI Report agreed upon by the installation, USACE, and USAEC for the installation to provide to regulators.	30 June 2023	D Schmidt, S Davis
Submittal of responses to comments *(within 2 weeks of concurrence from installation, USACE, and USAEC)*	Arcadis addressed the comments received from regulatory agencies, and the response to comment matrix detailing the completed revisions was submitted to the Former SFAAP, the USACE, and the USAEC. Concurrence on responses to comments was received on 09 August 2023.	09 August 2023	D Schmidt, S Davis
Final PA/SI Report *(submittal within 45 days of receipt of comments)*	Revised deliverable was reviewed by Arcadis Regional Lead, Quality Control Reviewer, and Technical Editor prior to distribution to the Former SFAAP, the USACE, and the USAEC.	15 August 2023	D Schmidt, S Davis

Preliminary assessment/site inspection complete at the Former LHAAP - Quality Control Reviewer signature Jessica Travis, Seres E&S

APPENDIX C

Former Installation EDR Survey Reports

Longhorn Army Ammunition Plant
Karnack, TX 75661

Inquiry Number: 6470488.2s
April 30, 2021

EDR DataMap™ Area Study

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Thank you for your business.
Please contact EDR at 1-800-352-0050
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EXECUTIVE SUMMARY

TARGET PROPERTY INFORMATION

ADDRESS

KARNACK, TX 75661
KARNACK, TX 75661

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records within the requested search area for the following databases:

FEDERAL RECORDS

Proposed NPL	Proposed National Priority List Sites
Delisted NPL	National Priority List Deletions
NPL LIENS	Federal Superfund Liens
SEMS-ARCHIVE	Superfund Enterprise Management System Archive
LIENS 2	CERCLA Lien Information
RCRA-LQG	RCRA - Large Quantity Generators
RCRA-SQG	RCRA - Small Quantity Generators
RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated
HMIRS	Hazardous Materials Information Reporting System
US CDL	National Clandestine Laboratory Register
US BROWNFIELDS	A Listing of Brownfields Sites
FUDS	Formerly Used Defense Sites
LUCIS	Land Use Control Information System
CONSENT	Superfund (CERCLA) Consent Decrees
UMTRA	Uranium Mill Tailings Sites
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
ODI	Open Dump Inventory
US MINES	Mines Master Index File
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
RAATS	RCRA Administrative Action Tracking System
RMP	Risk Management Plans
US AIRS	Aerometric Information Retrieval System Facility Subsystem
FUSRAP	Formerly Utilized Sites Remedial Action Program
2020 COR ACTION	2020 Corrective Action Program List
EPA WATCH LIST	EPA WATCH LIST
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing

EXECUTIVE SUMMARY

IHS OPEN DUMPS Open Dumps on Indian Land
PCB TRANSFORMER PCB Transformer Registration Database
ABANDONED MINES Abandoned Mines
US HIST CDL Delisted National Clandestine Laboratory Register
LEAD SMELTERS Lead Smelter Sites
FEDERAL FACILITY Federal Facility Site Information listing
MINES MRDS Mineral Resources Data System
US FIN ASSUR Financial Assurance Information
COAL ASH DOE Steam-Electric Plant Operation Data
FUELS PROGRAM EPA Fuels Program Registered Listing
FEMA UST Underground Storage Tank Listing

STATE AND LOCAL RECORDS

TX SHWS State Superfund Registry
LA SHWS Potential and Confirmed Sites List
TX IOP Innocent Owner/Operator Program
LA SWF/LF Landfill List
TX DEBRIS DEBRIS
LA DEBRIS LDEQ Approved Debris Sites
LA HIST DEBRIS LDEQ Approved Debris Sites
LA AUL Conveyance Notice Listing
TX SWRCY Recycling Facility Listing
LA SWRCY Recycling Directory
LA LUST Leaking Underground Storage Tanks
TX WASTE MGMT Commercial Hazardous & Solid Waste Management Facilities
LA HIST LUST Underground Storage Tank Case History Incidents
LA UST Louisiana Underground Storage Tank Database
TX DEL SHWS Deleted Superfund Registry Sites
LA LIENS Environmental Liens
LA DEL SHWS Deleted Potential & Confirmed Sites
TX AUL Sites with Controls
TX VCP Voluntary Cleanup Program Database
LA VCP Voluntary Remediation Program Sites
TX DRYCLEANERS Drycleaner Registration Database Listing
TX PRIORITYCLEANERS Dry Cleaner Remediation Program Prioritization List
LA DRYCLEANERS Drycleaner Facility Listing
TX BROWNFIELDS Brownfields Site Assessments
LA BROWNFIELDS Brownfields Inventory
TX CDL CDL
LA CDL Clandestine Drug Lab
TX ED AQUIF Edwards Aquifer Permits
LA NPDES LPDES Permits Database
TX MSD Municipal Settings Designations Database
TX HIST LIENS Environmental Liens Listing
TX LEAD LEAD
TX RWS Radioactive Waste Sites
TX APAR Affected Property Assessment Report Site Listing
TX COAL ASH Coal Ash Disposal Sites
TX PST STAGE 2 PST Stage 2
TX PFAS PFAS Contamination Site Location Listing
TX NON REGIST PST Petroleum Storage Tank Non Registered
LA REM Division of Remediation Services Database
LA COAL ASH Coal Ash Disposal Sites
LA PFAS Per- and Polyfluoroalkyl Substances (PFAS) Data

EXECUTIVE SUMMARY

LA ASBESTOS---------- Asbestos Projects List

TRIBAL RECORDS

INDIAN RESERV---------- Indian Reservations
INDIAN ODI---------- Report on the Status of Open Dumps on Indian Lands
INDIAN LUST---------- Leaking Underground Storage Tanks on Indian Land
INDIAN UST---------- Underground Storage Tanks on Indian Land
INDIAN VCP---------- Voluntary Cleanup Priority Listing

EDR PROPRIETARY RECORDS

EDR MGP---------- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto---------- EDR Exclusive Historical Auto Stations
TX RGA HWS---------- Recovered Government Archive State Hazardous Waste Facilities List
TX RGA LF---------- Recovered Government Archive Solid Waste Facilities List
LA RGA LF---------- Recovered Government Archive Solid Waste Facilities List
LA RGA HWS---------- Recovered Government Archive State Hazardous Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL RECORDS

NPL: Also known as Superfund, the National Priority List database is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund program. The source of this database is the U.S. EPA.

A review of the NPL list, as provided by EDR, and dated 12/30/2020 has revealed that there is 1 NPL site within the searched area.

Site	Address	Map ID	Page
LONGHORN ARMY AMMUNI	***HWY 43***	***0***	***4***
Cerclis ID:: 603606			
EPA Id: TX6213820529			

SEMS: SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the SEMS list, as provided by EDR, and dated 12/30/2020 has revealed that there is 1 SEMS

EXECUTIVE SUMMARY

site within the searched area.

Site	Address	Map ID	Page
LONGHORN ARMY AMMUNI	***HWY 43***	***0***	***4***
Site ID: 0603606			
EPA Id: TX6213820529			

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 12/14/2020 has revealed that there is 1 CORRACTS site within the searched area.

Site	Address	Map ID	Page
LONGHORN ARMY AMMUNI	***HWY 43***	***0***	***4***
EPA ID:: TX6213820529			

RCRA-TSDF: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-TSDF list, as provided by EDR, and dated 12/14/2020 has revealed that there is 1 RCRA-TSDF site within the searched area.

Site	Address	Map ID	Page
LONGHORN ARMY AMMUNI	***HWY 43***	***0***	***4***
EPA ID:: TX6213820529			

RCRA-VSQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 12/14/2020 has revealed that there is 1 RCRA-VSQG site within the searched area.

Site	Address	Map ID	Page
LONGHORN ARMY AMMUNI	***HWY 43***	***0***	***4***
EPA ID:: TX6213820529			

EXECUTIVE SUMMARY

US ENG CONTROLS: A listing of sites with engineering controls in place.

A review of the US ENG CONTROLS list, as provided by EDR, and dated 10/28/2020 has revealed that there is 1 US ENG CONTROLS site within the searched area.

Site	Address	Map ID	Page
LONGHORN ARMY AMMUNI	***HWY 43***	***0***	***4***
EPA ID:: TX6213820529			
EPA ID:: TX6213820529			

US INST CONTROLS: A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

A review of the US INST CONTROLS list, as provided by EDR, and dated 10/28/2020 has revealed that there is 1 US INST CONTROLS site within the searched area.

Site	Address	Map ID	Page
LONGHORN ARMY AMMUNI	***HWY 43***	***0***	***4***
EPA ID:: TX6213820529			

ERNS: The Emergency Response Notification System records and stores information on reported releases of oil and hazardous substances. The source of this database is the U.S. EPA.

A review of the ERNS list, as provided by EDR, and dated 12/14/2020 has revealed that there are 4 ERNS sites within the searched area.

Site	Address	Map ID	Page
Not reported	SEE LAT AND LONG	40	443
NRC Report #: 1175313			
Incident Date Time: 2017-04-10 02:15:00			
Not reported	COMPRESSOR STATION	40	444
NRC Report #: 1125165			
Incident Date Time: 2015-08-08 20:11:00			
Not reported	5540 NORTH STATE LIN	49	514
NRC Report #: 826257			
Incident Date Time: 2007-02-12 08:30:00			
Not reported		80	977
NRC Report #: 1263725			
Incident Date Time: 11/12/2019 7:30			

EXECUTIVE SUMMARY

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

A review of the DOT OPS list, as provided by EDR, and dated 01/02/2020 has revealed that there are 2 DOT OPS sites within the searched area.

Site	Address	Map ID	Page
MID-VALLEY PIPELINE		86	1019
MID - VALLEY PIPELIN		86	1020

DOD: Consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

A review of the DOD list, as provided by EDR, and dated 12/31/2005 has revealed that there are 2 DOD sites within the searched area.

Site	Address	Map ID	Page
LONGHORN ORDNANCE AR		0	103
CADDO LAKE		0	104

ROD: Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid the cleanup.

A review of the ROD list, as provided by EDR, and dated 12/30/2020 has revealed that there is 1 ROD site within the searched area.

Site	Address	Map ID	Page
LONGHORN ARMY AMMUNI EPA ID:: TX6213820529	***HWY 43***	***0***	***4***

ICIS: The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

A review of the ICIS list, as provided by EDR, and dated 11/18/2016 has revealed that there are 3 ICIS sites within the searched area.

Site	Address	Map ID	Page
CADDO LAKE STATE PAR FRS ID:: 110010920021	245 PARK RD 2	41	445
U.S. ARMY LONGHORN A FRS ID:: 110000619910	***15600 ST HWY 134***	***51***	***759***
WOODRIDGE LP WWTP FRS ID:: 110010131099	***1600' SE INTX FM 134***	***56***	***811***

EXECUTIVE SUMMARY

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 02/03/2021 has revealed that there are 20 FINDS sites within the searched area.

Site	Address	Map ID	Page
BAYOU RIVER RUN Registry ID:: 110033284283	398 PRIVATE ROAD 722	4	140
LIGHTHOUSE GROCERY Registry ID:: 110033834117	1805 BLAIRS LANDING	8	164
TAYLOR NO 2 UNIT TAN Registry ID:: 110037536743	FROM MARSHALL TAKE H	11	180
FLY-N-FISH LODGE Registry ID:: 110041485443	UNKNOWN	15	208
CADDO LAKE WSC Registry ID:: 110034535518	137 CYPRESS DR	20	261
TNT RAILCAR SERVICES Registry ID:: 110035053492	***21000 FM 134***	***23***	***275***
WEAVER PIT Registry ID:: 110040159752	EAST END OF LISA LAN	33	397
MUNDEN PIT Registry ID:: 110040353140	***LISA LANE***	***33***	***401***
FYFFES CORNER GROCER Registry ID:: 110034078851	623 FM 2198	38	440
HAGGERTY CREEK COMPR Registry ID:: 110033804907	FROM KARNACK TX 3 MI	40	443
CADDO LAKE STATE PAR Registry ID:: 110034523264	245 PARK ROAD 2	41	461
CADDO LAKE STATE PAR Registry ID:: 110010920021	***245 PARK RD 2***	***41***	***485***
BOOMER NO 3 BATTERY Registry ID:: 110033418521	TAKE HWY 43 N OUT OF	50	515
U.S. ARMY LONGHORN A Registry ID:: 110000619910	***15600 ST HWY 134***	***51***	***759***
NE OF SPUR 449 & HWY Registry ID:: 110020987850	HWY 134 & SPUR 449	51	794
JERRY JONES 1 UNIT B Registry ID:: 110033782752	FROM MARSHALL TAKE H	53	796
WOODRIDGE LP WWTP Registry ID:: 110010131099	1600' SE INTX FM 134	56	811
TJT MINERALS 7 UNIT Registry ID:: 110034220199	FROM MARSHALL TAKE S	61	827
TJT MINERALS 1 TANK	FROM MARSHALL TAKE H	67	833

EXECUTIVE SUMMARY

Registry ID:: 110034853157			
DAVES CORNER GROCERY Registry ID:: 110034584313	1889 FM 1999	88	1039

PRP: A listing of verified Potentially Responsible Parties

A review of the PRP list, as provided by EDR, and dated 12/30/2020 has revealed that there is 1 PRP site within the searched area.

Site	Address	Map ID	Page
LONGHORN ARMY AMMUNI	***HWY 43***	***0***	***4***

UXO: A listing of unexploded ordnance site locations

A review of the UXO list, as provided by EDR, and dated 12/31/2018 has revealed that there are 3 UXO sites within the searched area.

Site	Address	Map ID	Page
STATIC TEST AREA	HWY. 134AND HWY. 43	45	511
GROUND SIGNAL TEST A	HWY. 134AND HWY. 43	63	828
SOUTH TEST AREA / BO	HWY. 134AND HWY. 43	65	831

ECHO: ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

A review of the ECHO list, as provided by EDR, and dated 01/02/2021 has revealed that there are 5 ECHO sites within the searched area.

Site	Address	Map ID	Page
TNT RAILCAR SERVICES Registry ID: 110035053492	***21000 FM 134***	***23***	***275***
MUNDEN PIT Registry ID: 110040353140	***LISA LANE***	***33***	***401***
CADDO LAKE STATE PAR Registry ID: 110010920021	***245 PARK RD 2***	***41***	***485***
U.S. ARMY LONGHORN A Registry ID: 110000619910	***15600 ST HWY 134***	***51***	***759***
WOODRIDGE LP WWTP Registry ID: 110010131099	***1600' SE INTX FM 134***	***56***	***811***

EXECUTIVE SUMMARY

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

A review of the DOCKET HWC list, as provided by EDR, and dated 11/03/2020 has revealed that there is 1 DOCKET HWC site within the searched area.

Site	Address	Map ID	Page
LONGHORN ARMY AMMUNI	HIGHWAY 419 EAST	51	753

STATE AND LOCAL RECORDS

TX SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Texas Commission on Environmental Quality's permitted Solid Waste Facilities list.

A review of the TX SWF/LF list, as provided by EDR, and dated 01/22/2021 has revealed that there are 2 TX SWF/LF sites within the searched area.

Site	Address	Map ID	Page
HARRISON COUNTY PREC Facility Status: CLOSED Estimated Closure Date: 5/1/1985 Permit Number: 305	1.5 MILE NORTHWEST O	10	177
HARRISON COUNTY LAND Facility Status: CLOSED Estimated Closure Date: 4/1/1980 Permit Number: 480	NEXT TO BOIS D'ARC C	60	824

TX CLI: Closed and abandoned landfills (permitted as well as unauthorized) across the state of Texas. For current information regarding any of the sites included in this database, contact the appropriate Council of Governments agency.

A review of the TX CLI list, as provided by EDR, has revealed that there are 2 TX CLI sites within the searched area.

Site	Address	Map ID	Page
Not reported Database: CLI, Date of Government Version: 08/30/1999 Facility Id: 305 Last Date in Records Site Accepted Waste: 19891229 Permit Status: PC	1.5 NORTHWEST OF UNC	10	178
Not reported Database: CLI, Date of Government Version: 08/30/1999 Facility Id: 480 Last Date in Records Site Accepted Waste: 19810518 Permit Status: K	NEXT TO BOISD'ARC CO	60	824

EXECUTIVE SUMMARY

TX NPDES: Permitted wastewater outfalls.

A review of the TX NPDES list, as provided by EDR, and dated 01/29/2021 has revealed that there are 2 TX NPDES sites within the searched area.

Site	Address	Map ID	Page
CADDO LAKE STATE PAR	***245 PARK ROAD 2***	***41***	***453***
AI: WQ0014267001 Facility Id: 11977 EPA Id: TX0124125			
WOODRIDGE APARTMENTS	APPROX 1 600 FT SE O	56	810
AI: WQ0013474001 Facility Id: 11537 EPA Id: TX0104761			

TX UIC: Class V injection wells regulated by the TCEQ. Class V wells are used to inject non-hazardous fluids underground. Most Class V wells are used to dispose of wastes into or above underground sources of drinking water and can pose a threat to ground water quality, if not managed properly.

A review of the TX UIC list, as provided by EDR, and dated 10/14/2020 has revealed that there are 2 TX UIC sites within the searched area.

Site	Address	Map ID	Page
LONGHORN ARMY AMMUNI	***15600 ST HWY 134***	***51***	***557***
Status: ACTIVE Authorization Number: 5X2600643			
LONGHORN ARMY AMMUNI	15600 ST HWY 134	51	754
Status: ACTIVE Authorization Number: 5X2600464			

LA UIC: A listing of underground injection well locations.

A review of the LA UIC list, as provided by EDR, and dated 11/08/2020 has revealed that there are 19 LA UIC sites within the searched area.

Site	Address	Map ID	Page
STATE A SWD		5	141
PALA		7	162
CADDO LEVEE BOARD D		13	194
CADDO LEVEE BOARD H		39	440
LIEBMAN SWD		39	441
CADDO LEVEE BOARD H		43	508
SL 173 SWD		43	509
WILLER ETAL UNIT		47	512
HUNTER SWD		47	513
HALL ET AL SWD		55	809
THIGPEN-HEROLD SWD		58	815
HUNTER SWD		62	827
WILLIAMSON AND HALL		64	828
WILLIAMSON SWD		64	829

EXECUTIVE SUMMARY

Site	Address	Map ID	Page
WILLIAMSON & HALL SW		64	830
R B WILLIAMSON		66	831
HEAD SWD		69	913
GARDNER SWD		73	934
MONEYHAM SWD		94	1104

TX LPST: The Leaking Petroleum Storage Tank Incident Reports contain an inventory of reported leaking petroleum storage tank incidents. The data come from the Texas Commission on Environmental Quality's Leaking Petroleum Storage Tank Database.

A review of the TX LPST list, as provided by EDR, and dated 12/29/2020 has revealed that there are 6 TX LPST sites within the searched area.

Site	Address	Map ID	Page
MOTOR SUPPLY WAREHOU	1000 BROADWAY ST	20	260
LPST Id: 101447			
CA Status: 6A - FINAL CONCURRENCE ISSUED			
Facility ID: 0059823			
Status Code: FINAL CONCURRENCE ISSUED, CASE CLOSED			
BIG CYPRESS SHOP	***HWY 43***	***24***	***276***
LPST Id: 111246			
CA Status: 6A - FINAL CONCURRENCE ISSUED			
Facility ID: 0029772			
Status Code: FINAL CONCURRENCE ISSUED, CASE CLOSED			
BIG PINES LODGE	747 PINE ISLAND ROAD	25	304
LPST Id: 94910			
CA Status: 6A - FINAL CONCURRENCE ISSUED			
GROCERY BARN	HWY 134	42	493
LPST Id: 113599			
CA Status: 6A - FINAL CONCURRENCE ISSUED			
Facility ID: 0059822			
Status Code: FINAL CONCURRENCE ISSUED, CASE CLOSED			
LONGHORN ARMY AMMUNI	15600 ST HWY 134	51	518
LPST Id: 92925			
CA Status: 6A - FINAL CONCURRENCE ISSUED			
LONGHORN ARMY AMMUNI	15600 ST HWY 134	51	572
LPST Id: 105581			
CA Status: 6A - FINAL CONCURRENCE ISSUED			
Facility ID: 0005555			
Status Code: FINAL CONCURRENCE ISSUED, CASE CLOSED			

EXECUTIVE SUMMARY

TX UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Texas Commission on Environmental Quality's Petroleum Storage Tank Database.

A review of the TX UST list, as provided by EDR, and dated 12/04/2020 has revealed that there are 16 TX UST sites within the searched area.

Site	Address	Map ID	Page
MOTOR SUPPLY WHSE Facility Status: INACTIVE Facility Id: 59823 Facility Num: 90225 AI Number: 849424542002089	1000 BROADWAY ST	20	255
BIG CYPRESS SHOP Facility Status: INACTIVE Facility Id: 29772 Facility Num: 64426 AI Number: 719688372002149	***HWY 43***	***24***	***276***
M & R CONVENIENCE ST Facility Status: INACTIVE Facility Id: 44503 Facility Num: 67188 AI Number: 9057842002089	HWY 43	24	283
BIG PINES LODGE Facility Status: INACTIVE Facility Id: 38750 Facility Num: 69760 AI Number: 976152202002087	747 PINE ISLAND ROAD	25	299
SHADY GLADE CAMP Facility Status: INACTIVE Facility Id: 21924 Facility Num: 58607 AI Number: 538299892003020	CYPRESS	26	305
THE RUN-IN Facility Status: ACTIVE Facility Id: 69147 Facility Num: 104809 AI Number: 419402962003161	***17571 STATE HIGHWAY***	***33***	***383***
FYFFES CORNER GROCER Facility Status: ACTIVE Facility Id: 25827 Facility Num: 80446 AI Number: 597185982002139	623 FM 2198	38	426
CADDO LAKE STATE PAR Facility Status: INACTIVE Facility Id: 18767 Facility Num: 41914 AI Number: 761054482002156	PARK RD 2 OFF OF 219	41	445
THE HAIR CONNECTION Facility Status: INACTIVE Facility Id: 59519 Facility Num: 89901	FM 134 & TX HWY 43	42	494

EXECUTIVE SUMMARY

AI Number: 495714592002116			
THE GROCERY BARN Facility Status: INACTIVE Facility Id: 59822 Facility Num: 90226 AI Number: 468458432002089	HWY 134 & 43	42	499
LONGHORN ARMY AMMUNI Facility Status: INACTIVE Facility Id: 5555 Facility Num: 44113 AI Number: 763650132003073	15600 ST HWY 134	51	519
ROBERT G MACMURRAY J Facility Status: ACTIVE Facility Id: 24232 Facility Num: 60327 AI Number: 963697342002088	FM 134 & TAYLOR AVE	51	760
HAYNERS GROCERY Facility Status: ACTIVE Facility Id: 60272 Facility Num: 90735 AI Number: 191117482002087	FM 449 & FM 134	51	767
ERSKINS GROCERY Facility Status: INACTIVE Facility Id: 6771 Facility Num: 45802 AI Number: 253786792002086		77	953
D&M KORNER STORE Facility Status: ACTIVE Facility Id: 12110 Facility Num: 96607 AI Number: 541176202002139	1889 FM 1999	88	1039
T E GREEN GROCERY Facility Status: INACTIVE Facility Id: 38511 Facility Num: 77798 AI Number: 386634842003100	5325 FM 1999	91	1080

TX LIENS: The listing covers TCEQ liens placed against either State Superfund sites or Federal Superfund sites to recover cost incurred by TCEQ.

A review of the TX LIENS list, as provided by EDR, and dated 03/31/2021 has revealed that there is 1 TX LIENS site within the searched area.

Site	Address	Map ID	Page
LONGHORN ARMY AMMUNI SUP No: SUP126	***15600 ST HWY 134***	***51***	***557***

EXECUTIVE SUMMARY

TX AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Texas Commission on Environmental Quality's Petroleum Storage Tank Database.

A review of the TX AST list, as provided by EDR, and dated 12/04/2020 has revealed that there are 5 TX AST sites within the searched area.

Site	Address	Map ID	Page
SKEETERS MARINA Facility Id: 120461 Facility Id: 292387362007194 Facility Id: 78155 Facility Status: ACTIVE	398 PRIVATE ROAD 722	4	139
CIRCLE S COUNTRY STO Facility Id: 82488 Facility Id: 898072212002089 Facility Id: 51613 Facility Status: ACTIVE	17353 FM 134	42	505
SAM ROBBINS CONSTRUC Facility Id: 131011 Facility Id: 322345902013071 Facility Id: 85710 Facility Status: ACTIVE	15600 HWY 134	51	579
LONGHORN ARMY AMMUNI Facility Id: 44113 Facility Id: 763650132003073 Facility Id: 5555 Facility Status: INACTIVE	15600 ST HWY 134	51	755
C AND E GROCERY Facility Id: 96835 Facility Id: 493445682002088 Facility Id: 59527 Facility Status: INACTIVE	HWY 9 & 1999	88	1033

WI MANIFEST: Hazardous waste manifest information.

A review of the WI MANIFEST list, as provided by EDR, and dated 05/31/2018 has revealed that there is 1 WI MANIFEST site within the searched area.

Site	Address	Map ID	Page
LONGHORN AMMUNITION ACT Status: A FID: 0 EPA ID: TX6213820529	HWY 134 @ SPUR 449	57	815

EXECUTIVE SUMMARY

TX SPILLS: The Spills Database comes from the Texas Commission on Environmental Quality.

A review of the TX SPILLS list, as provided by EDR, has revealed that there is 1 TX SPILLS site within the searched area.

Site	Address	Map ID	Page
LIGHTHOUSE GROCERY	1805 BLAIRS LANDING,	8	163
Database: SPILLS, Date of Government Version: 10/21/2020 Incident Status: Closed Facility Id: RN104063466 Incident Number: 31382			

LA SPILLS: Spills and/or releases, to land, reported to the Emergency Response Section.

A review of the LA SPILLS list, as provided by EDR, and dated 11/09/2020 has revealed that there are 2 LA SPILLS sites within the searched area.

Site	Address	Map ID	Page
PELICAN LODGE - BURN	9754 PELICAN LODGE R	5	141
Incident Id: 179686 Incident Status: Pending Review			
EARL TODD	9754 PELICAN LODGE R	5	142
Incident Id: 101063 Incident Status: Closed			

TX ENF: Administrative Orders issued to Municipal Solid Waste, Petroleum Storage Tank and Multi-Media Sites

A review of the TX ENF list, as provided by EDR, and dated 04/15/2021 has revealed that there are 4 TX ENF sites within the searched area.

Site	Address	Map ID	Page
THE RUN-IN	***17571 STATE HIGHWAY***	***33***	***383***
Unique TCEQ Ref# of Reg Entity: RN103163762 Status Code: RESOLVED Status of NOV: DAPPROVED			
TPWD CADDO LAKE STAT	245 PARK ROAD 2	41	462
Unique TCEQ Ref# of Reg Entity: RN101181626 Status Code: RESOLVED Status of NOV: DAPPROVED			
CADDO LAKE STATE PAR	***245 PARK ROAD 2***	***41***	***486***
Unique TCEQ Ref# of Reg Entity: RN103016200 Status Code: URESOSCHED Status of NOV: ACTIVE Status of NOV: RESOLVED Status of NOV: DAPPROVED			
D & M KORNER STORE	***1889 FM 1999***	***88***	***1054***
Unique TCEQ Ref# of Reg Entity: RN102273646			

EXECUTIVE SUMMARY

Status Code: WITHDRAWN
Status Code: RESOLVED
Status of NOV: ACTIVE
Status of NOV: DAPPROVED

TX Ind. Haz Waste: The Industrial and Hazardous Waste Database contains summary reports by waste handlers, generators and shippers in Texas.

A review of the TX Ind. Haz Waste list, as provided by EDR, and dated 12/04/2020 has revealed that there is 1 TX Ind. Haz Waste site within the searched area.

Site	Address	Map ID	Page
SEE SUPERFUND LONGHO	***15600 ST HWY 134***	***51***	***590***
Registration Number: 30990			

TX AIRS: The database lists by company, along with their actual emissions, the Texas Commission on Environmental Quality's air accounts that emit EPA criteria pollutants.

A review of the TX AIRS list, as provided by EDR, and dated 12/15/2020 has revealed that there are 11 TX AIRS sites within the searched area.

Site	Address	Map ID	Page
TAYLOR NO 2 UNIT TAN		***11***	***179***
Permit Num: 86519			
Regulated Id: RN105640734			
Customer Id: CN602933681			
TNT RAILCAR SERVICES	***21000 FM 134***	***23***	***274***
Permit Num: 80516			
Regulated Id: RN104815824			
Customer Id: CN602961484			
HAGGERTY CREEK COMPR		***40***	***442***
Permit Num: 80999			
Regulated Id: RN105156160			
Customer Id: CN603573817			
BOOMER NO 3 BATTERY		***50***	***515***
Permit Num: 81100			
Regulated Id: RN105161491			
Customer Id: CN602933681			
JERRY JONES 1 UNIT B		***53***	***795***
Permit Num: 82269			
Regulated Id: RN105242101			
Customer Id: CN602933681			
TJT MINERALS 7 UNIT		***61***	***825***
Permit Num: 82182			
Regulated Id: RN105238091			
Customer Id: CN602933681			
TJT MINERALS 1 TANK		***67***	***832***

EXECUTIVE SUMMARY

Permit Num: 80924
Regulated Id: RN105148563
Customer Id: CN602933681

EAST WOODLAWN COMPRE ***79*** ***972***
Permit Num: 104188
Permit Num: 137124
Permit Num: 101321
Regulated Id: RN106354368
Customer Id: CN603580127

LONGWOOD CP ***82*** ***984***
Permit Num: 139339
Regulated Id: RN109131045
Customer Id: CN605425735

BLAKE CAROLINE 1H ***88*** ***1057***
Permit Num: 130930
Regulated Id: RN108157140
Customer Id: CN605425735

WINSTON HEIRS CDP ***102*** ***1161***
Permit Num: 105564
Regulated Id: RN106501372
Customer Id: CN600516587

LA AIRS: A listing of facilities with air permits issued by the Air Permits Division

A review of the LA AIRS list, as provided by EDR, and dated 05/01/2020 has revealed that there is 1 LA AIRS site within the searched area.

Site	Address	Map ID	Page
WASKOM MIDSTREAM LLC Permit Number: 0500-00104-01 Permit Number: 0500-00104-02 Permit Number: 0500-00104-03 Permit Number: 0500-00104-04	5 MI SW OF	68	912

TX TIER 2: A listing of facilities which store or manufacture hazardous materials and submit a chemical inventory report.

A review of the TX TIER 2 list, as provided by EDR, and dated 12/31/2012 has revealed that there are 115 TX TIER 2 sites within the searched area.

Site	Address	Map ID	Page
HASTY 1H Facility Id/Name: FATR20107R49ZK05C0XC Facility Id/Name: FATR20127R49ZK05C0XC Facility Id/Name: FATR20117R49ZK05C0XC	LAT 32.7596113 LONG	1	104
GREEN FOX DEEP Facility Id/Name: FATR201048T50E05YBZC	LAT 32.756694 LONG 9	2	117

EXECUTIVE SUMMARY

Facility Id/Name: FATR200648T50E05YBZC
Facility Id/Name: FATR201148T50E05YBZC

GREEN FOX DEEP LAT 32.756694 LONG 9 2 126
Facility Id/Name: FATR200948T50E05YBZC

GREEN FOX DEEP LAT 32.756694 LONG 9 2 131
Facility Id/Name: FATR201248T50E05YBZC
Facility Id/Name: FATR200848T50E05YBZC
Facility Id/Name: FATR200548T50E05YBZC

DAVIS (14868) 3 136
Facility Id/Name: FATR201293BBDA0548Z0

GREEN FOX DEEP UNIT LAT 32.738861 LONG 9 6 143
Facility Id/Name: FATR20104XTG1R01XZGT
Facility Id/Name: FATR20084XTG1R01XZGT
Facility Id/Name: FATR20124XTG1R01XZGT
Facility Id/Name: FATR20064XTG1R01XZGT
Facility Id/Name: FATR20114XTG1R01XZGT

GREEN FOX DEEP UNIT LAT 32.738861 LONG 9 6 157
Facility Id/Name: FATR20094XTG1R01XZGT

WALKER HEIRS 1H LAT 32.7288896 LONG 9 164
Facility Id/Name: FATR20127R49SL04J0C0
Facility Id/Name: FATR20107R49SL04J0C0
Facility Id/Name: FATR20117R49SL04J0C0

CLEAR LAKE 1H LAT 32.7197491 LONG 12 181
Facility Id/Name: FATR20127R48XG03QTJN
Facility Id/Name: FATR20117R48XG03QTJN
Facility Id/Name: FATR20107R48XG03QTJN

BENTON LAKE LAT 32.7193862 LONG 14 195
Facility Id/Name: FATR20127R47TA03ATC0
Facility Id/Name: FATR20117R47TA03ATC0
Facility Id/Name: FATR20107R47TA03ATC0

LITTLETON LAKE # 1 H LAT 32.714639 LONG 9 16 209
Facility Id/Name: FATR20104XTGBT02DPGP
Facility Id/Name: FATR20084XTGBT02DPGP
Facility Id/Name: FATR20064XTGBT02DPGP
Facility Id/Name: FATR20114XTGBT02DPGP

LITTLETON LAKE # 1 H LAT 32.714639 LONG 9 16 219
Facility Id/Name: FATR20124XTGBT02DPGP
Facility Id/Name: FATR20094XTGBT02DPGP

O.G. MURPHY HEIRS 1H LAT 32.7114142 LONG 17 228
Facility Id/Name: FATR20107R4913044YNC
Facility Id/Name: FATR20127R4913044YNC
Facility Id/Name: FATR20117R4913044YNC

TAYLOR 1 LAT32.7097123 LONG 9 18 241
Facility Id/Name: FATR20107R49WZ04YTEP
Facility Id/Name: FATR20127R49WZ04YTEP
Facility Id/Name: FATR20117R49WZ04YTEP

NFR ENERGY PILOT WOO 21 261
Facility Id/Name: FATR2012E00003295336

HAGGERTY CREEK NORTH 22 264
Facility Id/Name: FATR20096C8GKC028TEP

HAGGERTY CREEK NORTH 22 266

EXECUTIVE SUMMARY

Facility Id/Name: FATR20106C8GKC028TEP
Facility Id/Name: FATR20086C8GKC028TEP
Facility Id/Name: FATR20126C8GKC028TEP
Facility Id/Name: FATR20116C8GKC028TEP

NFR ENERGY KARNACK F 26 315
Facility Id/Name: FATR2012E00528358815

T.J. TAYLOR WELL NO. 27 318
Facility Id/Name: FATR200753TTDQ03YNLM

CHARLIE BELL WELL NO 27 319
Facility Id/Name: FATR2007542P650023KE

T.J. TAYLOR WELL NO. 28 319
Facility Id/Name: FATR200753TTRH04NUQ4

T.J. TAYLOR WELL NO. 28 320
Facility Id/Name: FATR200753TTKC04AJ3U

ROGERS GAS UNIT 1H LAT 32.692222 LONG 9 29 321
Facility Id/Name: FATR20107R47AA02W38U
Facility Id/Name: FATR20127R47AA02W38U
Facility Id/Name: FATR20117R47AA02W38U

COLLIER LAT 32.693028 LONG 9 29 334
Facility Id/Name: FATR200648T4NX05GDRC
Facility Id/Name: FATR201148T4NX05GDRC
Facility Id/Name: FATR201048T4NX05GDRC

COLLIER LAT 32.693028 LONG 9 29 343
Facility Id/Name: FATR200948T4NX05GDRC

COLLIER LAT 32.693028 LONG 9 29 347
Facility Id/Name: FATR200848T4NX05GDRC
Facility Id/Name: FATR200548T4NX05GDRC
Facility Id/Name: FATR201248T4NX05GDRC

JW HARRISON 1H LAT 32.6920527 LONG 30 353
Facility Id/Name: FATR20096AVQLY03TDGQ
Facility Id/Name: FATR20126AVQLY03TDGQ

JW HARRISON 1H LAT 32.6920527 LONG 30 362
Facility Id/Name: FATR20106AVQLY03TDGQ
Facility Id/Name: FATR20086AVQLY03TDGQ
Facility Id/Name: FATR20116AVQLY03TDGQ

HAGGERTY CREEK 31 371
Facility Id/Name: FATR201053TSZG038B9Y
Facility Id/Name: FATR200853TSZG038B9Y
Facility Id/Name: FATR201253TSZG038B9Y
Facility Id/Name: FATR201153TSZG038B9Y

HAGGERTY CREEK 31 379
Facility Id/Name: FATR200953TSZG038B9Y

BEATRICE KEY WELL NO 31 382
Facility Id/Name: FATR200753TSZG038B9Y

T.J. TAYLOR WELL NO. 32 382
Facility Id/Name: FATR200753TV3Y0500YT

MARION COUNTY FACILI 33 398
Facility Id/Name: FATR20096C3XTP01MPDG

MARION COUNTY FACILI 33 401

EXECUTIVE SUMMARY

Facility Id/Name: FATR20086C3XTP01MPDG			
HAGGERTY CREEK ENBRI Facility Id/Name: FATR200970QXPD00YZE9		34	402
HAGGERTY CREEK - ENB Facility Id/Name: FATR201270QXPD00YZE9		34	404
HAGGERTY CREEK - ENB Facility Id/Name: FATR201070QXPD00YZE9 Facility Id/Name: FATR201170QXPD00YZE9		34	406
T.J. TAYLOR WELL NO. Facility Id/Name: FATR20075MZPFF047VXD		35	411
T.J. TAYLOR WELL NO. Facility Id/Name: FATR200753TZ3N003ENA		36	411
ALFORD HEIRS WELL NO Facility Id/Name: FATR200753XYQ800E34A		36	412
STEPHENS WELL NO. 1 Facility Id/Name: FATR200753XYGV002QE2		36	413
ELDRIDGE BIVINS 1 Facility Id/Name: FATR2012E01441367683 Facility Id/Name: FATR2011E01441367683 Facility Id/Name: FATR2010E01441367683		37	413
ELDRIDGE BIVINS 1 Facility Id/Name: FATR2009E01441367683		37	422
T.J. TAYLOR WELL NO. Facility Id/Name: FATR200753U0AK00TU83		40	444
T.J. TAYLOR WELL NO. Facility Id/Name: FATR20075MZPA403X9Q9		44	510
ALFORD HEIRS WELL NO Facility Id/Name: FATR200753XYWC00SCX7		48	514
KARNACK WATER SUPPLY Facility Id/Name: FATR201291N684003PK0	943 TJ TAYLOR AVE.	51	517
LONGHORN ARMY AMMUNI Facility Id/Name: FATR201294ULFE002QLN	15600 FM 134	51	573
LONGHORN ARMY AMMUNI Facility Id/Name: FATR20104CC2SS002WL7 Facility Id/Name: FATR20084CC2SS002WL7 Facility Id/Name: FATR20064CC2SS002WL7	HWY 134 @ SPUR 449	51	774
LONGHORN ARMY AMMUNI Facility Id/Name: FATR20094CC2SS002WL7	HWY 134 @ SPUR 449	51	781
LONGHORN ARMY AMMUNI Facility Id/Name: FATR20114CC2SS002WL7 Facility Id/Name: FATR20074CC2SS002WL7	HWY 134 @ SPUR 449	51	787
T.J. TAYLOR WELL NO. Facility Id/Name: FATR200753TZCW00FE2W		52	794
BRIGGS GU 05 Facility Id/Name: FATR20086C7QH701D5HV Facility Id/Name: FATR20106C7QH701D5HV		54	796
BRIGGS GU 05		54	799

EXECUTIVE SUMMARY

Facility Id/Name: FATR20096C7QH701D5HV			
MCELROY 4		54	802
Facility Id/Name: FATR2010E01289594357			
Facility Id/Name: FATR2012E01289594357			
Facility Id/Name: FATR2011E01289594357			
WINDSTREAM KARNACK S		59	816
Facility Id/Name: FATR20106ZGX8600AZLM			
Facility Id/Name: FATR2012917DP30DSP8B			
Facility Id/Name: FATR20116ZGX8600AZLM			
BETHANY AREA 3		67	834
Facility Id/Name: FATR20095K33ZQ0085EP			
BETHANY AREA 3		67	854
Facility Id/Name: FATR20125K33ZQ0085EP			
Facility Id/Name: FATR20115K33ZQ0085EP			
Facility Id/Name: FATR20075K33ZQ0085EP			
Facility Id/Name: FATR20105K33ZQ0085EP			
Facility Id/Name: FATR20085K33ZQ0085EP			
SNIDER INDUSTRIES 1		70	914
Facility Id/Name: FATR200968XVKQ05B7KM			
Facility Id/Name: FATR201268XVKQ05B7KM			
SNIDER INDUSTRIES 1		70	919
Facility Id/Name: FATR201068XVKQ05B7KM			
Facility Id/Name: FATR200868XVKQ05B7KM			
Facility Id/Name: FATR201168XVKQ05B7KM			
MCLEOD GAS GATHERING	FROM I-20 N. ON FM 9	71	925
Facility Id/Name: FATR20107RKRPN0013KB			
Facility Id/Name: FATR20127RKRPN0013KB			
Facility Id/Name: FATR20117RKRPN0013KB			
A141 STATION	FROM I-20 HEAD NORTH	72	932
Facility Id/Name: FATR20084YQ90C00GTSU			
MCLEOD GAS GATHERING	FROM I-20 HEAD NORTH	72	933
Facility Id/Name: FATR20064YQ90C00GTSU			
MCLEOD GAS GATHERING	FROM I-20 HEAD NORTH	72	934
Facility Id/Name: FATR20074YQ90C00GTSU			
DEVON ENERGY - JONES		74	935
Facility Id/Name: FATR2012930AYZ7ZYKYE			
DAVIDSON & TWYMAN LE		75	939
Facility Id/Name: FATR20107RGKC80013KL			
JOHNSON 3		76	941
Facility Id/Name: FATR2009E00379244842			
JOHNSON 3		76	944
Facility Id/Name: FATR2010E00379244842			
Facility Id/Name: FATR2012E00379244842			
Facility Id/Name: FATR2011E00379244842			
DEVON ENERGY - TJT M		78	958
Facility Id/Name: FATR2012930B4GCYSBVE			
DEVON ENERGY - TJT M		78	961
Facility Id/Name: FATR2012930B4HCZ2C5Z			
DEVON ENERGY - TJT M		78	965

EXECUTIVE SUMMARY

Facility Id/Name: FATR2012930B4JCZYD36			
DEVON ENERGY - TJT M		78	968
Facility Id/Name: FATR2012930B4HCZNCSM			
DEVON ENERGY - TJT M		79	973
Facility Id/Name: FATR2012930B4HCZCCG2			
MYRTLE SPRINGS STATI	3237 VZCR 3204	81	977
Facility Id/Name: FATR20084YQ6HD03879B			
Facility Id/Name: FATR20094YQ6HD03879B			
Facility Id/Name: FATR20064YQ6HD03879B			
Facility Id/Name: FATR20074YQ6HD03879B			
SAUNDERS #1		82	985
Facility Id/Name: FATR20105MDU020AEXWR			
Facility Id/Name: FATR20085MDU020AEXWR			
Facility Id/Name: FATR20115MDU020AEXWR			
SAUNDERS #1		82	991
Facility Id/Name: FATR20095MDU020AEXWR			
Facility Id/Name: FATR20125MDU020AEXWR			
BIG SANDY FACILITY (		83	996
Facility Id/Name: FATR2009E00569107768			
BIG SANDY FACILITY	HWY. 155 AND PERSIMM	83	998
Facility Id/Name: FATR20064XNZPR02PHZ0			
Facility Id/Name: FATR20084XNZPR02PHZ0			
TAYLOR EST. #2		84	999
Facility Id/Name: FATR2009E01189940716			
TAYLOR EST. #2		84	1001
Facility Id/Name: FATR2007E01189940716			
TAYLOR EST. #2		84	1002
Facility Id/Name: FATR2010E01189940716			
Facility Id/Name: FATR2008E01189940716			
Facility Id/Name: FATR2006E01189940716			
Facility Id/Name: FATR2012E01189940716			
Facility Id/Name: FATR2011E01189940716			
C & E TRICE #2 H		85	1008
Facility Id/Name: FATR20096ZYJWE0BR88W			
C & E TRICE #2-H		85	1011
Facility Id/Name: FATR20126ZYJWE0BR88W			
Facility Id/Name: FATR20116ZYJWE0BR88W			
Facility Id/Name: FATR20106ZYJWE0BR88W			
OBRIEN ENERGY TEXAS	32.6093300 N 94.0437	87	1020
Facility Id/Name: FATR201027CD1Z01AQW7			
Facility Id/Name: FATR200827CD1Z01AQW7			
Facility Id/Name: FATR201227CD1Z01AQW7			
Facility Id/Name: FATR200927CD1Z01AQW7			
Facility Id/Name: FATR200627CD1Z01AQW7			
**Additional key fields are available in the Map Findings section*			
OBRIEN ENERGY TEXAS	32.6093300 N 94.0437	87	1032
Facility Id/Name: FATR200727CD1Z01AQW7			
LEIGH WATER SUPPLY C	2121 FM 1999	88	1034
Facility Id/Name: FATR201291LDS200R36V			

EXECUTIVE SUMMARY

Facility Id/Name: FATR20054QCCNV002TFX			
Facility Id/Name: FATR20064VV940002292			
Facility Id/Name: FATR20118EUC2W00M3KS			
AMERIGAS PROPANE	2771 FM 1999	89	1057
Facility Id/Name: FATR20095MG1AT002W1F			
Facility Id/Name: FATR200650C0LS025SLX			
Facility Id/Name: FATR20075MG1AT002W1F			
Facility Id/Name: FATR20115MG1AT002W1F			
Facility Id/Name: FATR20105MG1AT002W1F			
**Additional key fields are available in the Map Findings section*			
AMERIGAS PROPANE 247	2771 FM 1999	89	1068
Facility Id/Name: FATR20125MG1AT002W1F			
DEAN #1		90	1070
Facility Id/Name: FATR2007E01189940704			
DEAN #1		90	1071
Facility Id/Name: FATR2009E01189940704			
DEAN #1		90	1073
Facility Id/Name: FATR2008E01189940704			
Facility Id/Name: FATR2006E01189940704			
DEAN UNIT		90	1075
Facility Id/Name: FATR2012E01189940704			
Facility Id/Name: FATR2011E01189940704			
Facility Id/Name: FATR2010E01189940704			
LEIGH WATER SUPPLY C	9698 MARSHALL LEIGH	92	1085
Facility Id/Name: FATR201291LBPU002BHD			
Facility Id/Name: FATR20118ESKBM002J6Z			
RUDD GU 2 UNIT		93	1089
Facility Id/Name: FATR2009E01189940748			
RUDD GU 2 UNIT		93	1092
Facility Id/Name: FATR2007E01189940748			
RUDD GU 2 UNIT		93	1093
Facility Id/Name: FATR2010E01189940748			
Facility Id/Name: FATR2008E01189940748			
Facility Id/Name: FATR2006E01189940748			
Facility Id/Name: FATR2012E01189940748			
Facility Id/Name: FATR2011E01189940748			
WINSTON UNIT		95	1105
Facility Id/Name: FATR2009E01189940710			
WINSTON UNIT		95	1107
Facility Id/Name: FATR2010E01189940710			
Facility Id/Name: FATR2008E01189940710			
Facility Id/Name: FATR2006E01189940710			
Facility Id/Name: FATR2012E01189940710			
Facility Id/Name: FATR2011E01189940710			
WINSTON UNIT		95	1114
Facility Id/Name: FATR2007E01189940710			
BUCK SCOTT #1 & #2		96	1115
Facility Id/Name: FATR20086C3J6G02D1XF			
RIVERSTONE ENERGY BU		96	1115

EXECUTIVE SUMMARY

Facility Id/Name: FATR20096C3J6G02D1XF			
RUDD #1A	~15.3 MILES EAST OF	97	1118
Facility Id/Name: FATR20127QT4AX01REG6			
Facility Id/Name: FATR20117QT4AX01REG6			
HILLIARD E.L. #1		98	1125
Facility Id/Name: FATR201026DJBH0ASLF0			
Facility Id/Name: FATR201226DJBH0ASLF0			
Facility Id/Name: FATR201126DJBH0ASLF0			
HILLIARD E.L. #1	BLK 328-GD HARRISON	98	1132
Facility Id/Name: FATR200826DJBH0ASLF0			
Facility Id/Name: FATR200526DJBH0ASLF0			
HILLIARD E.L. #1	BLK 328-GD HARRISON	98	1133
Facility Id/Name: FATR200726DJBH0ASLF0			
HILLIARD E.L. #1	BLK 328-GD HARRISON	98	1134
Facility Id/Name: FATR200626DJBH0ASLF0			
HILLIARD E.L. #1		98	1135
Facility Id/Name: FATR200926DJBH0ASLF0			
NFR ENERGY MUSLOW OI		99	1137
Facility Id/Name: FATR2012E01912595154			
BLACKMAN 1	5.8 MILES NE OF MARS	100	1139
Facility Id/Name: FATR20127NN6HP00526H			
Facility Id/Name: FATR20117NN6HP00526H			
ANTHONY GU 1-1		101	1146
Facility Id/Name: FATR201268XNPW00UYCQ			
Facility Id/Name: FATR201168XNPW00UYCQ			
Facility Id/Name: FATR201068XNPW00UYCQ			
Facility Id/Name: FATR200868XNPW00UYCQ			
ANTHONY GU 1 1		101	1155
Facility Id/Name: FATR200968XNPW00UYCQ			
NFR ENERGY WINSTON H		102	1158
Facility Id/Name: FATR2012E01701994456			
M. GROGAN #1 & #2 LE		103	1161
Facility Id/Name: FATR20096879K001T2TZ			
M. GROGAN #1 & #2 LE		103	1164
Facility Id/Name: FATR20106879K001T2TZ			
Facility Id/Name: FATR20086879K001T2TZ			
DREYFUS, M.K.		104	1166
Facility Id/Name: FATR201248P0ML0D1061			
Facility Id/Name: FATR200948P0ML0D1061			

TX ASBESTOS: A listing of asbestos notification site locations.

A review of the TX ASBESTOS list, as provided by EDR, and dated 11/25/2020 has revealed that there are 2 TX ASBESTOS sites within the searched area.

Site	Address	Map ID	Page
CADDO LAKE STATE PAR	***245 PARK ROAD 2***	***41***	***453***
US FISH AND WILDLIFE	15600 HIGHWAY 134	51	580

EXECUTIVE SUMMARY

TX IHW CORR ACTION: Industrial hazardous waste facilities with corrective actions.

A review of the TX IHW CORR ACTION list, as provided by EDR, and dated 12/23/2021 has revealed that there is 1 TX IHW CORR ACTION site within the searched area.

Site	Address	Map ID	Page
SEE SUPERFUND LONGHO	***15600 ST HWY 134***	***51***	***590***
RN NUM: RN101264505			
Program Id: 30990			
Status: INACTIVE			

TX COMP HIST: A listing of compliance histories of regulated entities

A review of the TX COMP HIST list, as provided by EDR, and dated 11/23/2020 has revealed that there are 13 TX COMP HIST sites within the searched area.

Site	Address	Map ID	Page
TAYLOR NO 2 UNIT TAN		***11***	***179***
TNT RAILCAR SERVICES	***21000 FM 134***	***23***	***274***
HAGGERTY CREEK COMPR		***40***	***442***
CADDO LAKE STATE PAR	***245 PARK ROAD 2***	***41***	***486***
BOOMER NO 3 BATTERY		***50***	***515***
JERRY JONES 1 UNIT B		***53***	***795***
TJT MINERALS 7 UNIT		***61***	***825***
TJT MINERALS 1 TANK		***67***	***832***
EAST WOODLAWN COMPRE		***79***	***972***
LONGWOOD CP		***82***	***984***
D & M KORNER STORE	***1889 FM 1999***	***88***	***1054***
BLAKE CAROLINE 1H		***88***	***1057***
WINSTON HEIRS CDP		***102***	***1161***

TX CENTRAL REGISTRY: The Central Registry, a common record area of the TCEQ, maintains information about TCEQ customers and regulated activities, such as company names, addresses, and telephone numbers. This information is commonly referred to as a??core data.a?? The Central Registry provides the regulated community with a central access point within the agency to check core data and make changes when necessary.

A review of the TX CENTRAL REGISTRY list, as provided by EDR, and dated 02/26/2021 has revealed that there are 29 TX CENTRAL REGISTRY sites within the searched area.

Site	Address	Map ID	Page
OSSF 561 CYPRESS DRI	561 CYPRESS DR	15	208
OSSF 596 CYPRESS DR	596 CYPRESS DR	15	208
OSSF 635 AND 657 CYP	635 AND 657 CYPRESS	15	208
OSSF 707 CYPRESS DRI	707 CYPRESS DR	15	208
OSSF 764 CYPRESS DR	764 CYPRESS DR	15	208
OSSF 776 CYPRESS DR	776 CYPRESS DR	15	209
OSSF 926 CYPRESS DR	926 CYPRESS DR	15	209
OSSF 115 S MOSSY BRA	115 S MOSSY BRAKE RD	15	209
OSSF 4457 BROADWAY	4457 BROADWAY ST	19	254
OSSF 5447 EAST CYPRE	5447 E CYPRESS DR	20	254
OSSF 5375 EAST CYPRE	5375 E CYPRESS DR	20	254
OSSF 5235 CYPRESS DR	5235 E CYPRESS DR	20	254

EXECUTIVE SUMMARY

Site	Address	Map ID	Page
OSSF 5211 E CYPRESS	5211 E CYPRESS DR	20	254
MOTOR SUPPLY WHSE	1000 BROADWAY ST	20	255
OSSF 144 CYPRESS DR	144 CYPRESS DR	20	261
TNT RAILCAR SERVICES	***21000 FM 134***	***23***	***274***
BIG PINES LODGE	747 PINE ISLAND ROAD	25	299
FYFFES CORNER GROCER	623 FM 2198	38	440
CADDO LAKE STATE PAR	245 PARK ROAD 2	41	453
TPWD CADDO LAKE STAT	245 PARK ROAD 2	41	493
THE GROCERY BARN	HWY 134 & 43	42	493
CIRCLE S COUNTRY STO	17353 FM 134	42	504
ASERET RESTAURANT	17308 FM 134	42	508
SAM ROBBINS CONSTRUC	15600 HWY 134	51	758
LONGHORN ARMY AMMUNI	15600 ST HWY 134	51	758
OSSF 650 T J TAYLOR	650 T J TAYLOR AVE	59	823
C AND E GROCERY	HWY 9 & 1999	88	1034
D & M KORNER STORE	1889 FM 1999	88	1054
T E GREEN GROC	5325 FM 1999	91	1085

TX GCC: Texas Water Code, Section 26.406 requires the annual report to describe the current status of groundwater monitoring activities conducted or required by each agency at regulated facilities or associated with regulated activities. The report is required to contain a description of each case of groundwater contamination documented during the previous calendar year. Also to be included, is a description of each case of contamination documented during previous periods for which voluntary clean up action was incomplete at the time the preceding report was issued. The report is also required to indicate the status of enforcement action for each listed case.

A review of the TX GCC list, as provided by EDR, and dated 12/31/2019 has revealed that there is 1 TX GCC site within the searched area.

Site	Address	Map ID	Page
SEE SUPERFUND LONGHO	***15600 ST HWY 134***	***51***	***590***

EDR PROPRIETARY RECORDS

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within the searched area.

Site	Address	Map ID	Page
CADDO LAKE CLEANING	484 BUB HAYNER RD	46	511

EXECUTIVE SUMMARY

Please refer to the end of the findings report for unmapped orphan sites due to poor or inadequate address information.

MAP FINDINGS SUMMARY

Database	Total Plotted
FEDERAL RECORDS	
NPL	1
Proposed NPL	0
Delisted NPL	0
NPL LIENS	0
SEMS	1
SEMS-ARCHIVE	0
LIENS 2	0
CORRACTS	1
RCRA-TSDF	1
RCRA-LQG	0
RCRA-SQG	0
RCRA-VSQG	1
RCRA NonGen / NLR	0
US ENG CONTROLS	1
US INST CONTROLS	1
ERNS	4
HMIRS	0
DOT OPS	2
US CDL	0
US BROWNFIELDS	0
DOD	2
FUDS	0
LUCIS	0
CONSENT	0
ROD	1
UMTRA	0
DEBRIS REGION 9	0
ODI	0
US MINES	0
TRIS	0
TSCA	0
FTTS	0
HIST FTTS	0
SSTS	0
ICIS	3
PADS	0
MLTS	0
RADINFO	0
FINDS	20
RAATS	0
RMP	0
PRP	1
US AIRS	0
UXO	3
FUSRAP	0
2020 COR ACTION	0
EPA WATCH LIST	0
COAL ASH EPA	0

MAP FINDINGS SUMMARY

Database	Total Plotted
SCRD DRYCLEANERS	0
IHS OPEN DUMPS	0
PCB TRANSFORMER	0
ABANDONED MINES	0
US HIST CDL	0
LEAD SMELTERS	0
ECHO	5
FEDERAL FACILITY	0
DOCKET HWC	1
MINES MRDS	0
US FIN ASSUR	0
COAL ASH DOE	0
FUELS PROGRAM	0
FEMA UST	0

STATE AND LOCAL RECORDS

TX SHWS	0
LA SHWS	0
TX IOP	0
TX SWF/LF	2
LA SWF/LF	0
TX DEBRIS	0
TX CLI	2
LA DEBRIS	0
LA HIST DEBRIS	0
LA AUL	0
TX NPDES	2
TX UIC	2
LA UIC	19
TX SWRCY	0
LA SWRCY	0
LA LUST	0
TX WASTE MGMT	0
TX LPST	6
LA HIST LUST	0
TX UST	16
LA UST	0
TX LIENS	1
TX DEL SHWS	0
TX AST	5
LA LIENS	0
LA DEL SHWS	0
WI MANIFEST	1
TX SPILLS	1
LA SPILLS	2
TX AUL	0
TX VCP	0
LA VCP	0
TX DRYCLEANERS	0
TX PRIORITYCLEANERS	0

MAP FINDINGS SUMMARY

Database	Total Plotted
LA DRYCLEANERS	0
TX BROWNFIELDS	0
LA BROWNFIELDS	0
TX CDL	0
TX ENF	4
LA CDL	0
TX Ind. Haz Waste	1
TX ED AQUIF	0
LA NPDES	0
TX AIRS	11
LA AIRS	1
TX TIER 2	115
TX MSD	0
TX HIST LIENS	0
TX LEAD	0
TX ASBESTOS	2
TX RWS	0
TX APAR	0
TX COAL ASH	0
TX IHW CORR ACTION	1
TX PST STAGE 2	0
TX COMP HIST	13
TX CENTRAL REGISTRY	29
TX PFAS	0
TX NON REGIST PST	0
TX GCC	1
LA REM	0
LA COAL ASH	0
LA PFAS	0
LA ASBESTOS	0

TRIBAL RECORDS

INDIAN RESERV	0
INDIAN ODI	0
INDIAN LUST	0
INDIAN UST	0
INDIAN VCP	0

EDR PROPRIETARY RECORDS

EDR MGP	0
EDR Hist Auto	0
EDR Hist Cleaner	1
TX RGA HWS	0
TX RGA LF	0
LA RGA LF	0
LA RGA HWS	0

NOTES:

Sites may be listed in more than one database

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
NPL	**LONGHORN ARMY AMMUNITION PLANT**	**NPL**	**1009969436**
Region	**HWY 43**	**SEMS**	**TX6213820529**
	KARNACK, TX 75670	**CORRACTS**	
		RCRA-TSDF	
	Additional polygons located at: 1 ft.	**RCRA-VSQG**	
		US ENG CONTROLS	
		US INST CONTROLS	
		ROD	
		PRP	

NPL:

EPA Region:	6
EPA ID:	TX6213820529
Site ID:	603606
Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	HWY 43
City,State,Zip:	KARNACK, TX 75670
Federal:	Y
Final Date:	1990-08-30 00:00:00
Latitude:	32.665
Longitude:	-94.123339
Site Score:	39.829999999999998

NPL:

NPL Status:	Currently on the Final NPL
Substance ID:	Not reported
CAS Number:	Not reported
Substance:	Not reported
Pathway:	Not reported
Scoring:	Not reported

NPL Status:	Currently on the Final NPL
Substance ID:	A020
CAS Number:	Not reported
Substance:	CHROMIUM AND COMPOUNDS
Pathway:	GROUND WATER PATHWAY
Scoring:	2

NPL Status:	Currently on the Final NPL
Substance ID:	A032
CAS Number:	25154-54-5
Substance:	DINITROBENZENE
Pathway:	SURFACE WATER PATHWAY
Scoring:	2

NPL Status:	Currently on the Final NPL
Substance ID:	A074
CAS Number:	99-65-0
Substance:	DINITROBENZENE, 1,3-
Pathway:	GROUND WATER PATHWAY
Scoring:	2

NPL Status:	Currently on the Final NPL
Substance ID:	A074
CAS Number:	99-65-0
Substance:	DINITROBENZENE, 1,3-
Pathway:	SURFACE WATER PATHWAY
Scoring:	2

NPL Status:	Currently on the Final NPL

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Substance ID: C365
CAS Number: 118-96-7
Substance: TRINITROTOLUENE (TNT)
Pathway: SURFACE WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: D004
CAS Number: 7440-38-2
Substance: ARSENIC
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: D004
CAS Number: 7440-38-2
Substance: ARSENIC
Pathway: SURFACE WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: D005
CAS Number: 7440-39-3
Substance: BARIUM
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: D005
CAS Number: 7440-39-3
Substance: BARIUM
Pathway: SURFACE WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: D008
CAS Number: 7439-92-1
Substance: LEAD (PB)
Pathway: GROUND WATER PATHWAY
Scoring: 4

NPL Status: Currently on the Final NPL
Substance ID: D008
CAS Number: 7439-92-1
Substance: LEAD (PB)
Pathway: SURFACE WATER PATHWAY
Scoring: 3

NPL Status: Currently on the Final NPL
Substance ID: U080
CAS Number: 75-09-2
Substance: METHYLENE CHLORIDE
Pathway: GROUND WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U106

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

CAS Number: 606-20-2
Substance: DINITROTOLUENE, 2,6-
Pathway: SURFACE WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U169
CAS Number: 98-95-3
Substance: NITROBENZENE
Pathway: SURFACE WATER PATHWAY
Scoring: 2

NPL Status: Currently on the Final NPL
Substance ID: U234
CAS Number: 99-35-4
Substance: TRINITROBENZENE, 1,3,5-
Pathway: GROUND WATER PATHWAY
Scoring: 2

Summary Details:

Conditions at proposal July 14, l989): Longhorn Army Ammunition Plant LAAP) covers 8,490 acres between State Highway 43 and Caddo Lake in Karnack, Harrison County, Texas. The area is primarily rural. Established in 1941, LAAP has been operated since 1956 by Thiokol Corp. Its primary mission is to load, assemble, and pack solid propellant rocket motors and pyrotechnic and illuminating ammunition. Until about 1984, production wastes were washed into ponds or burned in landfills. At present, explosive residues, waste water treatment sludge from explosives, and brine sludge are burned in an incineration area. Liquid and solid wastes are now placed in drums and stored in separate areas until disposal is arranged.LAAP is participating in the Installation Restoration Program IRP), established in 1978. Under this program, the Department of Defense seeks to identify, investigate, and clean up contamination from ha ardous materials. Under IRP, the Army has identified 11 contaminated or potentially contaminated areas. Among them are the Active Burning Grounds, where flammable wastes have been burned since the early 1950s; the Unlined Evaporation Pond in the Active Burning Grounds), into whichan estimated 16,000 gallons per day of waste containing arsenic, barium, chromium, lead, inc, and organic nitrogen compounds were discharged during 1972-84; the Old Landfill, where trinitrotoluene TNT) wastes were disposed of during 1942-44; the Former TNT Production Area; and the Ground Signal Test Area and South Test Area, where various rocket motors and ammunition are tested. A 1984 IRP study reports barium, chromium, and lead in sediments from the Unlined Evaporation Pond,and barium in soil from the Old Landfill. The study also found that arsenic, barium, chromium, lead, inc, 1,3-dinitroben ene, and 1,3,5- trinitroben ene are present in on-site monitoring wells near the Active Burning Grounds. An estimated 1,900 people obtain drinking water from wells within 3 miles of ha ardous substances on LAAP. The nearest well is 500 feet from LAAP s northern boundary. Dinitroben ene, 2,4,6-trinitrotoluene, nitroben ene, 2,4- dinitroben ene, and 2,6-dinitrotoluene are present in surface waters, according to the 1984 IRP study. The contaminants originate from at least two areas in LAAP: the Old Landfill and the Former TNT Production Area. Harrison Bayou flows east of the Old Landfill; the Production Area is drained by Goose Prairie Creek and Central Creek. Goose Prairie Creek, Central Creek, and Harrison Bayou drain into Caddo Lake. Caddo Lake, a part of the Big Cypress Bayou, which flows into the Red River, is used for recreational activities. Status August 30, 1990): IRP activities continue.

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

NPL:
NPL Status: Currently on the Final NPL
Category Description: Depth To Aquifer-> 10 And <= 25 Feet
Category Value: 15

NPL Status: Currently on the Final NPL
Category Description: Distance To Nearest Population-> 0 And <= 1/4 Mile
Category Value: 10

NPL:
NPL Name: LONGHORN ARMY AMMUNITION PLANT

NPL:
EPA Region: 06
Site ID: 0603606
Site Status: F
Federal Site: Y
Date Deleted: Not reported
Date Finalized: 08/30/90
Date Proposed: 07/14/89

NPL:
Proposed Date: 07/14/1989
Final Date: 08/30/1990
Deleted Date: Not reported
NPL Status: Final

SEMS:
Site ID: 0603606
EPA ID: TX6213820529
Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
Cong District: 01
FIPS Code: 48203
Latitude: +32.665000
Longitude: -94.123339
FF: Y
NPL: Currently on the Final NPL
Non NPL Status: Not reported

SEMS Detail:
Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 00
Action Code: TA
Action Name: TECH ASSIST
SEQ: 1
Start Date: 1999-10-01 04:00:00

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	00
Action Code:	AR
Action Name:	ADMIN REC
SEQ:	1
Start Date:	1999-12-10 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	00
Action Code:	HR
Action Name:	HAZRANK
SEQ:	1
Start Date:	1989-07-14 04:00:00
Finish Date:	7/14/1989 4:00:00 AM
Qual:	O
Current Action Lead:	EPA Perf
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	00
Action Code:	NF
Action Name:	NPL FINL
SEQ:	1
Start Date:	1990-08-30 04:00:00
Finish Date:	8/30/1990 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	00
Action Code:	NP

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Action Name:	PROPOSED
SEQ:	1
Start Date:	1989-07-14 04:00:00
Finish Date:	7/14/1989 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	00
Action Code:	RS
Action Name:	RV ASSESS
SEQ:	1
Start Date:	1990-04-30 04:00:00
Finish Date:	5/16/1990 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	00
Action Code:	SS
Action Name:	ESI RI
SEQ:	1
Start Date:	1995-10-09 04:00:00
Finish Date:	5/11/1998 4:00:00 AM
Qual:	A
Current Action Lead:	EPA Perf
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	00
Action Code:	DS
Action Name:	DISCVRY
SEQ:	1
Start Date:	1980-09-01 04:00:00
Finish Date:	9/1/1980 4:00:00 AM
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

FF:	Y
OU:	23
Action Code:	GM
Action Name:	GWTRMON
SEQ:	1
Start Date:	2016-09-28 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	24
Action Code:	GM
Action Name:	GWTRMON
SEQ:	2
Start Date:	2016-09-28 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	EPA Perf
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	00
Action Code:	LZ
Action Name:	FF CR
SEQ:	1
Start Date:	1995-03-01 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	00
Action Code:	TG
Action Name:	TA GRANT
SEQ:	2
Start Date:	2001-03-22 05:00:00
Finish Date:	6/28/2004 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 04
Action Code: RO
Action Name: ROD
SEQ: 9
Start Date: 2006-07-24 04:00:00
Finish Date: 7/24/2006 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 23
Action Code: RO
Action Name: ROD
SEQ: 29
Start Date: 2011-08-19 04:00:00
Finish Date: 9/13/2016 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 24
Action Code: RO
Action Name: ROD
SEQ: 30
Start Date: 2011-08-19 04:00:00
Finish Date: 9/13/2016 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 12
Action Code: RO
Action Name: ROD
SEQ: 17
Start Date: 2011-06-27 05:00:00
Finish Date: 9/19/2019 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	00
Action Code:	TG
Action Name:	TA GRANT
SEQ:	3
Start Date:	1998-02-21 05:00:00
Finish Date:	2/20/2001 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	01
Action Code:	LW
Action Name:	FF RI/FS
SEQ:	6
Start Date:	1991-10-16 04:00:00
Finish Date:	9/29/2006 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	05
Action Code:	RO
Action Name:	ROD
SEQ:	11
Start Date:	1996-02-14 05:00:00
Finish Date:	2/14/1996 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	06
Action Code:	RO
Action Name:	ROD
SEQ:	28
Start Date:	1996-02-14 05:00:00
Finish Date:	2/14/1996 5:00:00 AM

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	07
Action Code:	RO
Action Name:	ROD
SEQ:	12
Start Date:	2011-06-21 05:00:00
Finish Date:	9/13/2016 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	08
Action Code:	RO
Action Name:	ROD
SEQ:	13
Start Date:	2011-01-26 05:00:00
Finish Date:	9/13/2016 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	11
Action Code:	RO
Action Name:	ROD
SEQ:	16
Start Date:	1998-01-23 05:00:00
Finish Date:	1/23/1998 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	13
Action Code:	RO
Action Name:	ROD

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

SEQ: 18
Start Date: 2008-08-07 05:00:00
Finish Date: 8/7/2008 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 14
Action Code: RO
Action Name: ROD
SEQ: 19
Start Date: 2010-06-28 05:00:00
Finish Date: 6/28/2010 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 15
Action Code: RO
Action Name: ROD
SEQ: 20
Start Date: 2010-09-30 04:00:00
Finish Date: 9/30/2010 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 17
Action Code: RO
Action Name: ROD
SEQ: 22
Start Date: 2010-09-07 04:00:00
Finish Date: 9/7/2010 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

OU:	18
Action Code:	RO
Action Name:	ROD
SEQ:	23
Start Date:	2010-09-30 04:00:00
Finish Date:	9/30/2010 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	19
Action Code:	RO
Action Name:	ROD
SEQ:	24
Start Date:	1998-01-23 05:00:00
Finish Date:	1/23/1998 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	20
Action Code:	RO
Action Name:	ROD
SEQ:	25
Start Date:	2010-09-30 04:00:00
Finish Date:	9/30/2010 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	21
Action Code:	RO
Action Name:	ROD
SEQ:	26
Start Date:	2010-06-28 05:00:00
Finish Date:	6/28/2010 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	22
Action Code:	RO
Action Name:	ROD
SEQ:	31
Start Date:	2010-09-07 04:00:00
Finish Date:	9/7/2010 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	00
Action Code:	TG
Action Name:	TA GRANT
SEQ:	4
Start Date:	2010-08-09 04:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	20
Action Code:	LX
Action Name:	FF RD
SEQ:	20
Start Date:	2010-11-18 05:00:00
Finish Date:	9/30/2011 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	21
Action Code:	LX
Action Name:	FF RD
SEQ:	21
Start Date:	2010-11-30 05:00:00
Finish Date:	8/24/2011 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	15
Action Code:	LX
Action Name:	FF RD
SEQ:	16
Start Date:	2010-10-04 04:00:00
Finish Date:	9/30/2011 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	18
Action Code:	LX
Action Name:	FF RD
SEQ:	19
Start Date:	2010-12-13 05:00:00
Finish Date:	9/30/2011 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	07
Action Code:	LX
Action Name:	FF RD
SEQ:	5
Start Date:	2016-10-14 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	14
Action Code:	LX
Action Name:	FF RD
SEQ:	15
Start Date:	2010-11-30 05:00:00
Finish Date:	8/24/2011 4:00:00 AM

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 02
Action Code: RO
Action Name: ROD
SEQ: 10
Start Date: 2013-03-29 04:00:00
Finish Date: 3/30/2017 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 03
Action Code: RO
Action Name: ROD
SEQ: 27
Start Date: 1998-01-23 05:00:00
Finish Date: 1/23/1998 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 01
Action Code: LW
Action Name: FF RI/FS
SEQ: 1
Start Date: 1991-10-16 04:00:00
Finish Date: 5/12/1995 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 01
Action Code: LW
Action Name: FF RI/FS

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

SEQ: 2
Start Date: 1991-10-16 04:00:00
Finish Date: 2/14/1996 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 01
Action Code: LW
Action Name: FF RI/FS
SEQ: 3
Start Date: 1991-10-16 04:00:00
Finish Date: 1/23/1998 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 01
Action Code: LW
Action Name: FF RI/FS
SEQ: 5
Start Date: 1991-10-16 04:00:00
Finish Date: 10/16/1991 4:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 01
Action Code: LX
Action Name: FF RD
SEQ: 1
Start Date: 1995-03-31 05:00:00
Finish Date: 12/16/1996 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

OU:	01
Action Code:	LY
Action Name:	FF RA
SEQ:	2
Start Date:	1997-02-12 05:00:00
Finish Date:	8/31/1999 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	01
Action Code:	LY
Action Name:	FF RA
SEQ:	4
Start Date:	1996-10-25 04:00:00
Finish Date:	8/31/1999 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	01
Action Code:	LX
Action Name:	FF RD
SEQ:	4
Start Date:	1995-09-21 04:00:00
Finish Date:	10/25/1996 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	00
Action Code:	PA
Action Name:	PA
SEQ:	1
Start Date:	1984-03-01 05:00:00
Finish Date:	3/1/1984 5:00:00 AM
Qual:	H
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	1
Start Date:	1995-05-12 04:00:00
Finish Date:	5/12/1995 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	3
Start Date:	1998-01-23 05:00:00
Finish Date:	1/23/1998 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	01
Action Code:	RO
Action Name:	ROD
SEQ:	7
Start Date:	1995-09-27 04:00:00
Finish Date:	9/27/1995 4:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	00
Action Code:	SI
Action Name:	SI
SEQ:	1
Start Date:	1985-10-01 05:00:00
Finish Date:	10/1/1985 5:00:00 AM
Qual:	H
Current Action Lead:	Fed Fac

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	00
Action Code:	TG
Action Name:	TA GRANT
SEQ:	1
Start Date:	1995-02-21 05:00:00
Finish Date:	2/20/1998 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	20
Action Code:	LY
Action Name:	FF RA
SEQ:	20
Start Date:	2011-09-30 04:00:00
Finish Date:	8/11/2015 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	21
Action Code:	LY
Action Name:	FF RA
SEQ:	21
Start Date:	2011-08-24 04:00:00
Finish Date:	9/14/2016 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	14
Action Code:	LY
Action Name:	FF RA
SEQ:	15
Start Date:	2011-08-24 04:00:00
Finish Date:	4/19/2017 5:00:00 AM

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	15
Action Code:	LY
Action Name:	FF RA
SEQ:	16
Start Date:	2011-09-30 04:00:00
Finish Date:	7/20/2015 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	18
Action Code:	LY
Action Name:	FF RA
SEQ:	19
Start Date:	2011-09-30 04:00:00
Finish Date:	9/24/2016 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	10
Action Code:	RO
Action Name:	ROD
SEQ:	15
Start Date:	2020-01-02 06:00:00
Finish Date:	2/25/2020 6:00:00 AM
Qual:	R
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	09
Action Code:	RO
Action Name:	ROD

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

SEQ: 14
Start Date: 2020-01-02 06:00:00
Finish Date: 2/25/2020 6:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 07
Action Code: LY
Action Name: FF RA
SEQ: 5
Start Date: 2018-05-23 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 16
Action Code: RO
Action Name: ROD
SEQ: 21
Start Date: 2013-07-22 04:00:00
Finish Date: Not reported
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y
OU: 08
Action Code: LX
Action Name: FF RD
SEQ: 10
Start Date: 2016-10-12 05:00:00
Finish Date: 3/14/2019 5:00:00 AM
Qual: Not reported
Current Action Lead: Fed Fac

Region: 06
Site ID: 0603606
EPA ID: TX6213820529
Site Name: LONGHORN ARMY AMMUNITION PLANT
NPL: F
FF: Y

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

OU:	08
Action Code:	LY
Action Name:	FF RA
SEQ:	10
Start Date:	2019-03-14 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	02
Action Code:	LX
Action Name:	FF RD
SEQ:	22
Start Date:	2018-01-09 05:00:00
Finish Date:	4/3/2019 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	14
Action Code:	OM
Action Name:	OM
SEQ:	1
Start Date:	2017-04-19 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	21
Action Code:	OM
Action Name:	OM
SEQ:	2
Start Date:	2016-09-14 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	15
Action Code:	OM
Action Name:	OM
SEQ:	3
Start Date:	2015-07-20 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	20
Action Code:	OM
Action Name:	OM
SEQ:	5
Start Date:	2015-08-11 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	18
Action Code:	OM
Action Name:	OM
SEQ:	4
Start Date:	2016-09-24 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac
Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	25
Action Code:	RO
Action Name:	ROD
SEQ:	32
Start Date:	2013-12-12 05:00:00
Finish Date:	8/10/2018 5:00:00 AM
Qual:	Not reported
Current Action Lead:	Fed Fac

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Region:	06
Site ID:	0603606
EPA ID:	TX6213820529
Site Name:	LONGHORN ARMY AMMUNITION PLANT
NPL:	F
FF:	Y
OU:	02
Action Code:	LY
Action Name:	FF RA
SEQ:	22
Start Date:	2019-04-03 05:00:00
Finish Date:	Not reported
Qual:	Not reported
Current Action Lead:	Fed Fac

CORRACTS:

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
Address 2:	Not reported
EPA ID:	TX6213820529
Area Name:	ENTIRE FACILITY
Corrective Action:	CA050
Actual Date:	1988-08-16 00:00:00.0
Air Release Indicator:	Not reported
Groundwater Release Indicator:	Y
Soil Release Indicator:	Not reported
Surface Water Release Indicator:	Y

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
Address 2:	Not reported
EPA ID:	TX6213820529
Area Name:	ENTIRE FACILITY
Corrective Action:	CA075HI
Actual Date:	1992-02-24 00:00:00.0
Air Release Indicator:	Not reported
Groundwater Release Indicator:	Y
Soil Release Indicator:	Not reported
Surface Water Release Indicator:	Y

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
Address 2:	Not reported
EPA ID:	TX6213820529
Area Name:	ENTIRE FACILITY
Corrective Action:	CA210SF
Actual Date:	1990-08-30 00:00:00.0
Air Release Indicator:	Not reported
Groundwater Release Indicator:	Y
Soil Release Indicator:	Not reported
Surface Water Release Indicator:	Y

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
Address 2:	Not reported
EPA ID:	TX6213820529

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Area Name: ENTIRE FACILITY
Corrective Action: CA225NR
Actual Date: 1992-04-17 00:00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Y
Soil Release Indicator: Not reported
Surface Water Release Indicator: Y

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
Address 2: Not reported
EPA ID: TX6213820529
Area Name: ENTIRE FACILITY
Corrective Action: CA070YE
Actual Date: 1988-08-16 00:00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Y
Soil Release Indicator: Not reported
Surface Water Release Indicator: Y

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
Address 2: Not reported
EPA ID: TX6213820529
Area Name: ENTIRE FACILITY
Corrective Action: CA100DC
Actual Date: 1992-03-25 00:00:00.0
Air Release Indicator: Not reported
Groundwater Release Indicator: Y
Soil Release Indicator: Not reported
Surface Water Release Indicator: Y

RCRA-VSQG:
Date Form Received by Agency: 2019-04-18 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Handler Address: 15600 ST HWY 134
Handler City,State,Zip: KARNACK, TX 75661
EPA ID: TX6213820529
Contact Name: ROSE ZEILER
Contact Address: 727 S BROOKLYN RD
Contact City,State,Zip: RATCLIFF, AR 72951-9083
Contact Telephone: 479-635-0110
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: ENVIRONMENTAL MANAGER
EPA Region: 06
Land Type: Federal
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities, Permitting Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 727 S BROOKLYN RD
Mailing City,State,Zip: RATCLIFF, AR 72951-9083
Owner Name: UNITED STATES ARMY DOD

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Owner Type:	Private
Operator Name:	UNITED STATES ARMY DOD
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Treatment
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	The land is federally-owned
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Land Disposal, Storage, Treatment
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Land Disposal, Storage, Treatment
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	Yes
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	Yes
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	High
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Treatment
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-05-01 16:01:04.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Sub-Part P Indicator: Not reported

Biennial: List of Years
Year: 2015

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:
Year: 2009

Click Here for Biennial Reporting System Data:
Year: 2005

Click Here for Biennial Reporting System Data:
Year: 2003

Click Here for Biennial Reporting System Data:
Year: 2001

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D000
Waste Description: Not Defined

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D003
Waste Description: REACTIVE WASTE

Waste Code: D005
Waste Description: BARIUM

Waste Code: D006
Waste Description: CADMIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D010
Waste Description: SELENIUM

MAP FINDINGS

Map ID
Direction
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Waste Code: D011
Waste Description: SILVER

Waste Code: D018
Waste Description: BENZENE

Waste Code: D022
Waste Description: CHLOROFORM

Waste Code: D029
Waste Description: 1,1-DICHLOROETHYLENE

Waste Code: D030
Waste Description: 2,4-DINITROTOLUENE

Waste Code: D032
Waste Description: HEXACHLOROBENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: D038
Waste Description: PYRIDINE

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

Waste Code: D040
Waste Description: TRICHLORETHYLENE

Waste Code: F001
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS USED IN DEGREASING: TETRACHLOROETHYLENE, TRICHLORETHYLENE, METHYLENE CHLORIDE, 1,1,1-TRICHLOROETHANE, CARBON TETRACHLORIDE AND CHLORINATED FLUOROCARBONS; ALL SPENT SOLVENT MIXTURES/BLENDS USED IN DEGREASING CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F002
Waste Description: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS

MAP FINDINGS

Map ID
Direction
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F004
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: CRESOLS, CRESYLIC ACID, AND NITROBENZENE; AND THE STILL BOTTOMS FROM THE RECOVERY OF THESE SOLVENTS; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F007
Waste Description: SPENT CYANIDE PLATING BATH SOLUTIONS FROM ELECTROPLATING OPERATIONS.

Waste Code: K002
Waste Description: WASTEWATER TREATMENT SLUDGE FROM THE PRODUCTION OF CHROME YELLOW AND ORANGE PIGMENTS.

Waste Code: K044
Waste Description: WASTEWATER TREATMENT SLUDGES FROM THE MANUFACTURING AND PROCESSING OF EXPLOSIVES.

Waste Code: P115
Waste Description: SULFURIC ACID, DITHALLIUM (1+) SALT (OR) THALLIUM(I) SULFATE

Waste Code: U003
Waste Description: ACETONITRILE (I,T)

Waste Code: U044
Waste Description: CHLOROFORM (OR) METHANE, TRICHLORO-

Waste Code: U051
Waste Description: CREOSOTE

Waste Code: U052
Waste Description: CRESOL (CRESYLIC ACID) (OR) PHENOL, METHYL-

Waste Code: U080
Waste Description: METHANE, DICHLORO- (OR) METHYLENE CHLORIDE

Waste Code: U088
Waste Description: 1,2-BENZENEDICARBOXYLIC ACID, DIETHYL ESTER (OR) DIETHYL PHTHALATE

Waste Code: U092

MAP FINDINGS

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Direction
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Waste Description: DIMETHYLAMINE (I) (OR) METHANAMINE, N-METHYL- (I)

Waste Code: U102
Waste Description: 1,2-BENZENEDICARBOXYLIC ACID, DIMETHYL ESTER (OR) DIMETHYL PHTHALATE

Waste Code: U103
Waste Description: DIMETHYL SULFATE (OR) SULFURIC ACID, DIMETHYL ESTER

Waste Code: U122
Waste Description: FORMALDEHYDE

Waste Code: U127
Waste Description: BENZENE, HEXACHLORO- (OR) HEXACHLOROBENZENE

Waste Code: U151
Waste Description: MERCURY

Waste Code: U158
Waste Description: 4,4'-METHYLENEBIS(2-CHLOROANILINE) (OR) BENZENAMINE, 4,4'-METHYLENEBIS[2-CHLORO-

Waste Code: U160
Waste Description: 2-BUTANONE, PEROXIDE (R,T) (OR) METHYL ETHYL KETONE PEROXIDE (R,T)

Waste Code: U217
Waste Description: NITRIC ACID, THALLIUM(1+) SALT (OR) THALLIUM(I) NITRATE

Waste Code: U220
Waste Description: BENZENE, METHYL- (OR) TOLUENE

Waste Code: U240
Waste Description: 2,4-D, SALTS & ESTERS (OR) ACETIC ACID, (2,4-DICHLOROPHENOXY)-, SALTS & ESTERS (OR) DICHLOROPHENOXYACETIC ACID 2,4-D

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Federal
Date Became Current: 1997-02-12 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055-8312
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Federal
Date Became Current: 1997-02-12 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Not reported
Date Became Current:	2004-02-23 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 658
Owner/Operator City,State,Zip:	DOYLINE, LA 71028
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Not reported
Date Became Current:	2004-02-23 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 658
Owner/Operator City,State,Zip:	DOYLINE, LA 71028
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	2005-11-29 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	2007-05-03 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 PO BOX 658
Owner/Operator City,State,Zip:	DOYLINE, LA 71028
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	1998-10-19 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055-8312

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 1998-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055-8312
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 1998-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055-8312
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 1998-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055-8312
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 1998-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055-8312
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Federal
Date Became Current: 1998-10-19 00:00:00.

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 658
Owner/Operator City,State,Zip:	DOYLINE, LA 71028-0658
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	2007-05-03 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 PO BOX 658
Owner/Operator City,State,Zip:	DOYLINE, LA 71028
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	2008-12-09 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNITED STATES ARMY DOD,
Legal Status:	Federal
Date Became Current:	1998-10-19 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 658
Owner/Operator City,State,Zip:	DOYLINE, LA 71028-0658
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	1998-10-19 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055-8312
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 1998-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055-8312
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Other
Date Became Current: 1997-02-12 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055-8312
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Federal
Date Became Current: 1997-02-12 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 2005-10-03 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 658
Owner/Operator City,State,Zip: DOYLINE, LA 71028
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Federal
Date Became Current: 2009-12-28 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 658
Owner/Operator City,State,Zip: DOYLINE, LA 71028
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	1998-10-19 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055-8312
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	1998-10-19 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055-8312
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	2005-10-03 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	2009-09-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 658
Owner/Operator City,State,Zip:	DOYLINE, LA 71028
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Federal
Date Became Current:	2009-12-28 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED STATES ARMY DOD,
Legal Status: Federal
Date Became Current: 1998-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 658
Owner/Operator City,State,Zip: DOYLINE, LA 71028-0658
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 1998-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055-8312
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 1998-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055-8312
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 2004-02-23 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 658
Owner/Operator City,State,Zip: DOYLINE, LA 71028
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 2005-11-29 00:00:00.

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 658
Owner/Operator City,State,Zip:	DOYLINE, LA 71028
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	1998-10-19 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055-8312
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	1998-10-19 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055-8312
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	1998-10-19 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055-8312
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	1998-10-19 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055-8312
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Federal
Date Became Current: 1997-02-12 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 2007-05-03 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 2009-09-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 1998-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055-8312
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 1998-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055-8312
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Private
Date Became Current:	1998-10-19 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055-8312
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Other
Date Became Current:	1997-02-12 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	DOYLINE, LA 71028-0658
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Federal
Date Became Current:	1997-02-12 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055-8312
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Federal
Date Became Current:	1997-02-12 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055-8312
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	US DEPT OF ARMY
Legal Status:	Federal
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	LONGHORN ARMY AMM PLNT
Owner/Operator City,State,Zip:	MARSHALL, TX 75671-1059

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Owner/Operator Telephone: 000-000-0000
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: THIOKOL CORPORATION
Legal Status: Federal
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 1149
Owner/Operator City,State,Zip: UNKNOWN, TX 00000-0000
Owner/Operator Telephone: 214-679-3181
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Not reported
Date Became Current: 2003-11-12 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 658
Owner/Operator City,State,Zip: DOYLINE, LA 71028
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 2007-05-03 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 2008-12-09 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 658
Owner/Operator City,State,Zip: DOYLINE, LA 71028
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 1998-10-19 00:00:00.

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055-8312
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Federal
Date Became Current:	1997-02-12 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	UNITED STATES ARMY DOD
Legal Status:	Not reported
Date Became Current:	2003-11-12 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 658
Owner/Operator City,State,Zip:	DOYLINE, LA 71028
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES ARMY DOD,
Legal Status:	Federal
Date Became Current:	1997-02-12 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055-8312
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	UNITED STATES ARMY DOD,
Legal Status:	Federal
Date Became Current:	1997-02-12 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	2629 YORK AVE
Owner/Operator City,State,Zip:	MINDEN, LA 71055-8312
Owner/Operator Telephone:	318-459-5100
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 1998-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055-8312
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 1998-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055-8312
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 1998-10-19 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2629 YORK AVE
Owner/Operator City,State,Zip: MINDEN, LA 71055-8312
Owner/Operator Telephone: 318-459-5100
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: UNITED STATES ARMY DOD
Legal Status: Private
Date Became Current: 2004-02-23 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: PO BOX 658
Owner/Operator City,State,Zip: DOYLINE, LA 71028
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2010-03-01 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2012-03-01 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2014-03-01 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2016-03-01 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1997-02-20 00:00:00.0
Handler Name: US ARMY LONGHORN ARMY AMMO PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: TX
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2003-11-12 00:00:00.0

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: TX
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2004-02-23 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: TX
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2005-10-03 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: TX
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2005-11-29 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: TX
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2007-05-08 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: TX
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2007-06-14 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: TX
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2008-12-09 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: TX
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2009-09-01 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: TX
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2009-12-28 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: TX
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Electronic Manifest Broker: Not reported

Receive Date: 2010-12-14 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2011-04-15 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2014-02-12 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2014-10-16 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2016-04-04 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2016-06-21 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2016-06-21 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2016-06-21 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2016-08-29 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2017-09-11 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2017-11-22 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2017-11-22 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2019-04-18 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Receive Date: 1990-03-01 00:00:00.0
Handler Name: US ARMY LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1992-09-22 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1994-01-31 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1996-03-01 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 1998-01-25 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT ATTN: SIO
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2000-01-25 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION PLANT ATTN: SIO
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2002-03-01 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: TX
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2004-03-01 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: TX
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2006-03-01 00:00:00.0
Handler Name: LONGHORN ARMY AMMUNITION
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 32592
NAICS Description: EXPLOSIVES MANUFACTURING

NAICS Code: 325998
NAICS Description: ALL OTHER MISCELLANEOUS CHEMICAL PRODUCT AND PREPARATION MANUFACTURING

NAICS Code: 332993
NAICS Description: AMMUNITION (EXCEPT SMALL ARMS) MANUFACTURING

NAICS Code: 336415
NAICS Description: GUIDED MISSILE AND SPACE VEHICLE PROPULSION UNIT AND PROPULSION UNIT PARTS MANUFACTURING

NAICS Code: 92811
NAICS Description: NATIONAL SECURITY

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Records/Reporting
Date Violation was Determined: 2016-07-06 00:00:00.0
Actual Return to Compliance Date: 2016-08-12 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 2
Date of Enforcement Action: 2016-08-31 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: VERBAL INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: 05
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 2005-09-20 00:00:00.0
Actual Return to Compliance Date: 2006-03-22 00:00:00.0
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: Not reported
Enforcement Identifier: 1
Date of Enforcement Action: 2005-12-30 00:00:00.0
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: 05
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	State Statute or Regulation
Date Violation was Determined:	2005-09-20 00:00:00.0
Actual Return to Compliance Date:	2006-03-22 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	1
Date of Enforcement Action:	2005-12-30 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	05
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Records/Reporting
Date Violation was Determined:	2016-07-06 00:00:00.0
Actual Return to Compliance Date:	2016-08-12 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	2
Date of Enforcement Action:	2016-08-31 00:00:00.0
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: VERBAL INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: 05
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 2016-07-06 00:00:00.0
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: 05
Actual Return to Compliance Date: 2016-08-12 00:00:00.0
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 2006-09-21 00:00:00.0
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE SCHEDULE EVALUATION
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: 05
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 1989-08-23 00:00:00.0
Evaluation Responsible Agency: EPA
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: R6CA
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 2017-06-22 00:00:00.0
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: 05
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 1988-05-31 00:00:00.0

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	NON-FINANCIAL RECORD REVIEW
Evaluation Responsible Person Identifier:	R6DPM
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2005-09-20 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	05
Actual Return to Compliance Date:	2006-03-22 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	1988-01-26 00:00:00.0
Evaluation Responsible Agency:	EPA
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2005-09-20 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	05
Actual Return to Compliance Date:	2006-03-22 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2016-07-06 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	05

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Actual Return to Compliance Date:	2016-08-12 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	2009-11-04 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	05
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

SIte:
Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
Event Code: Not reported
Action Taken Date: 03/30/2017
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 10
Operable Unit: 02
Contaminated Media: Groundwater
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2017
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Media:
EPA ID: TX6213820529
Contaminated Media: Surface Water
Action ID: 23
Operable Unit: 18
Action Name: Record of Decision
Action Taken Date: 09/30/2010
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Sediment
Action ID: 24
Operable Unit: 19
Action Name: Record of Decision
Action Taken Date: 01/23/1998
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1998
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

EPA ID:	TX6213820529
Contaminated Media:	Soil
Action ID:	24
Operable Unit:	19
Action Name:	Record of Decision
Action Taken Date:	01/23/1998
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1998
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	23
Operable Unit:	18
Action Name:	Record of Decision
Action Taken Date:	09/30/2010
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Soil
Action ID:	23
Operable Unit:	18
Action Name:	Record of Decision
Action Taken Date:	09/30/2010
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	26
Operable Unit:	21
Action Name:	Record of Decision
Action Taken Date:	06/28/2010

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Sediment
Action ID:	27
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	01/23/1998
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1998
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Soil
Action ID:	27
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	01/23/1998
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1998
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	23
Operable Unit:	18
Action Name:	Record of Decision
Action Taken Date:	09/30/2010
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Surface Water
Action ID:	23
Operable Unit:	18
Action Name:	Record of Decision
Action Taken Date:	09/30/2010
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	22
Operable Unit:	17
Action Name:	Record of Decision
Action Taken Date:	09/07/2010
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Soil
Action ID:	22
Operable Unit:	17
Action Name:	Record of Decision
Action Taken Date:	09/07/2010
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Contaminated Media: Soil
Action ID: 23
Operable Unit: 18
Action Name: Record of Decision
Action Taken Date: 09/30/2010
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Soil
Action ID: 23
Operable Unit: 18
Action Name: Record of Decision
Action Taken Date: 09/30/2010
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 05/12/1995
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1995
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 05/12/1995
Event Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1995
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 05/12/1995
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1995
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 05/12/1995
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1995
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 05/12/1995
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1995
NPL Status: Currently on the Final NPL

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 05/12/1995
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1995
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 05/12/1995
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1995
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 05/12/1995
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1995
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Soil

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	05/12/1995
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1995
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	1
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	05/12/1995
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1995
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Sediment
Action ID:	3
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	01/23/1998
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1998
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Soil
Action ID:	3
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	01/23/1998
Event Code:	Not reported
Contact Name:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1998
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 7
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 09/27/1995
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1995
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Soil
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 05/12/1995
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1995
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 1
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 05/12/1995
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1995
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Latitude:	+32.665000
Longitude:	-94.123339
EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	3
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	01/23/1998
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1998
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339
EPA ID:	TX6213820529
Contaminated Media:	Solid Waste
Action ID:	7
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/27/1995
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1995
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339
EPA ID:	TX6213820529
Contaminated Media:	Solid Waste
Action ID:	7
Operable Unit:	01
Action Name:	Record of Decision
Action Taken Date:	09/27/1995
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1995
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339
EPA ID:	TX6213820529
Contaminated Media:	Solid Waste
Action ID:	7

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 09/27/1995
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1995
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Solid Waste
Action ID: 7
Operable Unit: 01
Action Name: Record of Decision
Action Taken Date: 09/27/1995
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1995
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Soil
Action ID: 9
Operable Unit: 04
Action Name: Record of Decision
Action Taken Date: 07/24/2006
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2006
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 9
Operable Unit: 04
Action Name: Record of Decision
Action Taken Date: 07/24/2006
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2006
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	9
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	07/24/2006
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2006
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Soil
Action ID:	9
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	07/24/2006
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2006
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Sediment
Action ID:	9
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	07/24/2006
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2006
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Longitude:	-94.123339
EPA ID:	TX6213820529
Contaminated Media:	Surface Water
Action ID:	9
Operable Unit:	04
Action Name:	Record of Decision
Action Taken Date:	07/24/2006
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2006
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339
EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	10
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	03/30/2017
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2017
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339
EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	10
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	03/30/2017
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2017
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339
EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	10
Operable Unit:	02

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Action Name:	Record of Decision
Action Taken Date:	03/30/2017
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2017
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Soil
Action ID:	18
Operable Unit:	13
Action Name:	Record of Decision
Action Taken Date:	08/07/2008
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2008
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	19
Operable Unit:	14
Action Name:	Record of Decision
Action Taken Date:	06/28/2010
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	20
Operable Unit:	15
Action Name:	Record of Decision
Action Taken Date:	09/30/2010
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	10
Operable Unit:	02
Action Name:	Record of Decision
Action Taken Date:	03/30/2017
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2017
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	11
Operable Unit:	05
Action Name:	Record of Decision
Action Taken Date:	02/14/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Soil
Action ID:	11
Operable Unit:	05
Action Name:	Record of Decision
Action Taken Date:	02/14/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 12
Operable Unit: 07
Action Name: Record of Decision
Action Taken Date: 09/13/2016
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 12
Operable Unit: 07
Action Name: Record of Decision
Action Taken Date: 09/13/2016
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 12
Operable Unit: 07
Action Name: Record of Decision
Action Taken Date: 09/13/2016
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Solid Waste
Action ID: 12
Operable Unit: 07
Action Name: Record of Decision
Action Taken Date: 09/13/2016

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2016
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	12
Operable Unit:	07
Action Name:	Record of Decision
Action Taken Date:	09/13/2016
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2016
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Surface Water
Action ID:	12
Operable Unit:	07
Action Name:	Record of Decision
Action Taken Date:	09/13/2016
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2016
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	13
Operable Unit:	08
Action Name:	Record of Decision
Action Taken Date:	09/13/2016
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2016

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 13
Operable Unit: 08
Action Name: Record of Decision
Action Taken Date: 09/13/2016
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 13
Operable Unit: 08
Action Name: Record of Decision
Action Taken Date: 09/13/2016
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 13
Operable Unit: 08
Action Name: Record of Decision
Action Taken Date: 09/13/2016
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Contaminated Media: Groundwater
Action ID: 13
Operable Unit: 08
Action Name: Record of Decision
Action Taken Date: 09/13/2016
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Soil
Action ID: 13
Operable Unit: 08
Action Name: Record of Decision
Action Taken Date: 09/13/2016
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Soil
Action ID: 13
Operable Unit: 08
Action Name: Record of Decision
Action Taken Date: 09/13/2016
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Sediment
Action ID: 16
Operable Unit: 11
Action Name: Record of Decision
Action Taken Date: 01/23/1998
Event Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1998
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Soil
Action ID: 16
Operable Unit: 11
Action Name: Record of Decision
Action Taken Date: 01/23/1998
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1998
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 18
Operable Unit: 13
Action Name: Record of Decision
Action Taken Date: 08/07/2008
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2008
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 13
Operable Unit: 08
Action Name: Record of Decision
Action Taken Date: 09/13/2016
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 13
Operable Unit: 08
Action Name: Record of Decision
Action Taken Date: 09/13/2016
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 13
Operable Unit: 08
Action Name: Record of Decision
Action Taken Date: 09/13/2016
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 16
Operable Unit: 11
Action Name: Record of Decision
Action Taken Date: 01/23/1998
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1998
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Action ID:	19
Operable Unit:	14
Action Name:	Record of Decision
Action Taken Date:	06/28/2010
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	19
Operable Unit:	14
Action Name:	Record of Decision
Action Taken Date:	06/28/2010
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	20
Operable Unit:	15
Action Name:	Record of Decision
Action Taken Date:	09/30/2010
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	20
Operable Unit:	15
Action Name:	Record of Decision
Action Taken Date:	09/30/2010
Event Code:	Not reported
Contact Name:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 23
Operable Unit: 18
Action Name: Record of Decision
Action Taken Date: 09/30/2010
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 23
Operable Unit: 18
Action Name: Record of Decision
Action Taken Date: 09/30/2010
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 24
Operable Unit: 19
Action Name: Record of Decision
Action Taken Date: 01/23/1998
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1998
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 25
Operable Unit: 20
Action Name: Record of Decision
Action Taken Date: 09/30/2010
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 25
Operable Unit: 20
Action Name: Record of Decision
Action Taken Date: 09/30/2010
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 25
Operable Unit: 20
Action Name: Record of Decision
Action Taken Date: 09/30/2010
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 25

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Operable Unit: 20
Action Name: Record of Decision
Action Taken Date: 09/30/2010
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Soil
Action ID: 28
Operable Unit: 06
Action Name: Record of Decision
Action Taken Date: 02/14/1996
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1996
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Soil
Action ID: 31
Operable Unit: 22
Action Name: Record of Decision
Action Taken Date: 09/07/2010
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 26
Operable Unit: 21
Action Name: Record of Decision
Action Taken Date: 06/28/2010
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	26
Operable Unit:	21
Action Name:	Record of Decision
Action Taken Date:	06/28/2010
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	27
Operable Unit:	03
Action Name:	Record of Decision
Action Taken Date:	01/23/1998
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1998
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

EPA ID:	TX6213820529
Contaminated Media:	Groundwater
Action ID:	28
Operable Unit:	06
Action Name:	Record of Decision
Action Taken Date:	02/14/1996
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	1996
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 29
Operable Unit: 23
Action Name: Record of Decision
Action Taken Date: 09/13/2016
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

EPA ID: TX6213820529
Contaminated Media: Groundwater
Action ID: 30
Operable Unit: 24
Action Name: Record of Decision
Action Taken Date: 09/13/2016
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

US INST CONTROLS:
Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 25
Operable Unit: 20
Actual Date: 09/30/2010
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 26
Operable Unit: 21
Actual Date: 06/28/2010
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 29
Operable Unit: 23
Actual Date: 09/13/2016
Contaminated Media: Solid Waste
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 30
Operable Unit: 24
Actual Date: 09/13/2016
Contaminated Media: Solid Waste
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 7
Operable Unit: 01
Actual Date: 09/27/1995
Contaminated Media: Solid Waste
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 1995
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 9
Operable Unit: 04
Actual Date: 07/24/2006
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2006
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 9

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Operable Unit: 04
Actual Date: 07/24/2006
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2006
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 10
Operable Unit: 02
Actual Date: 03/30/2017
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2017
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 10
Operable Unit: 02
Actual Date: 03/30/2017
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2017
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 12
Operable Unit: 07
Actual Date: 09/13/2016
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 12
Operable Unit: 07
Actual Date: 09/13/2016
Contaminated Media: Solid Waste
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 13
Operable Unit: 08
Actual Date: 09/13/2016
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 13
Operable Unit: 08
Actual Date: 09/13/2016
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2016
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 19
Operable Unit: 14
Actual Date: 06/28/2010
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 20
Operable Unit: 15
Actual Date: 09/30/2010
Contaminated Media: Groundwater

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 22
Operable Unit: 17
Actual Date: 09/07/2010
Contaminated Media: Soil
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
Action Name: Record of Decision
Action ID: 23
Operable Unit: 18
Actual Date: 09/30/2010
Contaminated Media: Groundwater
Event Code: Not reported
Contact Name: Not reported
Contact Telephone: Not reported
Event: Not reported
Federal Facility: Y
Fiscal Year: 2010
NPL Status: Currently on the Final NPL
Superfund Alternative Agreement: N
Latitude: +32.665000
Longitude: -94.123339

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
Address 2: Not reported
City,State,Zip: KARNACK, TX 75670

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

EPA ID:	TX6213820529
Action Name:	Record of Decision
Action ID:	31
Operable Unit:	22
Actual Date:	09/07/2010
Contaminated Media:	Soil
Event Code:	Not reported
Contact Name:	Not reported
Contact Telephone:	Not reported
Event:	Not reported
Federal Facility:	Y
Fiscal Year:	2010
NPL Status:	Currently on the Final NPL
Superfund Alternative Agreement:	N
Latitude:	+32.665000
Longitude:	-94.123339

ROD:

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	HWY 43
City,State,Zip:	KARNACK, TX 75670
EPA ID:	TX6213820529
RG:	6
Site ID:	603606
Action:	FF ESD
Operable Unit Number:	L58-SHOPS AREA/MAINTENANCE COMPLEX
SEQ ID:	1
Action Completion:	2018-04-13 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	HWY 43
City,State,Zip:	KARNACK, TX 75670
EPA ID:	TX6213820529
RG:	6
Site ID:	603606
Action:	FF ESD
Operable Unit Number:	L58-SHOPS AREA/MAINTENANCE COMPLEX
SEQ ID:	2
Action Completion:	2018-09-05 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	HWY 43
City,State,Zip:	KARNACK, TX 75670
EPA ID:	TX6213820529
RG:	6
Site ID:	603606
Action:	FF ESD
Operable Unit Number:	L50-FORMER WASTE DISP FACILITY
SEQ ID:	3
Action Completion:	2019-08-29 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: L01-INERT BURNING GROUND
SEQ ID: 1
Action Completion: 1995-05-12 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: L01-INERT BURNING GROUND
SEQ ID: 3
Action Completion: 1998-01-23 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: FF ROD (RCRA Statement of Basis/RTC)
Operable Unit Number: L01-INERT BURNING GROUND
SEQ ID: 7
Action Completion: 1995-09-27 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L12-ACTIVE LANDFILL
SEQ ID: 9
Action Completion: 2006-07-24 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L04-PILOT WASTE WATER PLANT
SEQ ID: 10
Action Completion: 2017-03-30 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L13-TNT BURIAL SITE ACTIVE OLD
SEQ ID: 11
Action Completion: 1996-02-14 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L16-OLD LANDFILL
SEQ ID: 12
Action Completion: 2016-09-13 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L17-NO2 FLASHING AREA BG
SEQ ID: 13
Action Completion: 2016-09-13 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L27-SOUTH TEST AREA/BOMB TEST
SEQ ID: 16
Action Completion: 1998-01-23 00:00:00

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L29-FORMER TNT PRODUCTION AREA
SEQ ID: 17
Action Completion: 2019-09-19 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L32-FORMER TNT WASTE DISPOSAL
SEQ ID: 18
Action Completion: 2008-08-07 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L37-QUALITY ASSURANCE LAB BLDG
SEQ ID: 19
Action Completion: 2010-06-28 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L46-PLANT 2/PYROTECHNIC OPERAT
SEQ ID: 20
Action Completion: 2010-09-30 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L49-FORMER ACID PLANT
SEQ ID: 22
Action Completion: 2010-09-07 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L50-FORMER WASTE DISP FACILITY
SEQ ID: 23
Action Completion: 2010-09-30 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L54-GROUND SIGNAL TEST AREA
SEQ ID: 24
Action Completion: 1998-01-23 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L58-SHOPS AREA/MAINTENANCE COMPLEX
SEQ ID: 25
Action Completion: 2010-09-30 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Operable Unit Number: L67-ABOVE GROUND STORAGE TANK
SEQ ID: 26
Action Completion: 2010-06-28 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L11-TNT BURIAL SITE P&Q AVENUE
SEQ ID: 27
Action Completion: 1998-01-23 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L14-AREA 54W BURIAL SITE
SEQ ID: 28
Action Completion: 1996-02-14 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L001-R-MMRP-SOUTH TEST AREA/BOMB
SEQ ID: 29
Action Completion: 2016-09-13 00:00:00
NPL Status: Final
Non NPL Status: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: HWY 43
City,State,Zip: KARNACK, TX 75670
EPA ID: TX6213820529
RG: 6
Site ID: 603606
Action: GOVT Decision Document (ROD)
Operable Unit Number: L003-R-MMRP-GROUND SIGNAL TEST
SEQ ID: 30
Action Completion: 2016-09-13 00:00:00
NPL Status: Final
Non NPL Status: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **1009969436**

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	HWY 43
City,State,Zip:	KARNACK, TX 75670
EPA ID:	TX6213820529
RG:	6
Site ID:	603606
Action:	GOVT Decision Document (ROD)
Operable Unit Number:	L-PISTOL RANGE
SEQ ID:	31
Action Completion:	2010-09-07 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	HWY 43
City,State,Zip:	KARNACK, TX 75670
EPA ID:	TX6213820529
RG:	6
Site ID:	603606
Action:	GOVT Decision Document (ROD)
Operable Unit Number:	L03-BUILDING722 PAINT SHOP
SEQ ID:	32
Action Completion:	2018-08-10 00:00:00
NPL Status:	Final
Non NPL Status:	Not reported

PRP:

EPAID:	TX6213820529
Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	HWY 43
City,State,Zip:	KARNACK, TX 75670
NPL Status:	Currently on the Final NPL
NPL Status Short Name:	Not reported
PRP Name:	U.S. ARMY
PRP Address:	Not reported
PRP City,State,Zip:	Not reported
Data Type:	Not reported
Action Date:	Not reported
Settlement Code:	Not reported
Settlement:	Not reported

DOD Region **LONGHORN ORDNANCE ARMY AMMO PLANT** **DOD** **CUSA145694** **N/A**

LONGHORN ORDNANCE ARMY AM (County), TX

DOD:

Feature 1:	Army DOD
Feature 2:	Not reported
Feature 3:	Not reported
URL:	Not reported
Name 1:	Longhorn Ordnance Army Ammo Plant
Name 2:	Not reported
Name 3:	Not reported
State:	TX
DOD Site:	Yes
Tile name:	TXHARRISON

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
DOD Region	**CADDO LAKE**	**DOD**	**CUSA145607 N/A**

CADDO LAKE (County), TX

DOD:

Feature 1:	Army Corps of Engineers DOD
Feature 2:	Not reported
Feature 3:	Not reported
URL:	Not reported
Name 1:	Caddo Lake
Name 2:	Not reported
Name 3:	Not reported
State:	TX
DOD Site:	Yes
Tile name:	TXMARION

1	**HASTY 1H** **LAT 32.7596113 LONG 94.1947574** **KARNACK, TX 75670**	**TX TIER 2**	**S111054875 N/A**

TIER 2:

Facility Id/Name:	FATR20127R49ZK05C0XC/HASTY 1H
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/8/2013
Date Tier 2 Signed:	02/19/2013
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7596113
Longitude:	94.1947574
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20117R49ZK05C0XC/HASTY 1H
Reporting Year:	2011
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/16/2012
Date Tier 2 Signed:	02/21/2012
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HASTY 1H (Continued) **S111054875**

State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7596113
Longitude:	94.1947574
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20107R49ZK05C0XC/HASTY 1H
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	02/21/2011
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7596113
Longitude:	94.1947574
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/21/2011
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/21/2011

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HASTY 1H (Continued) **S111054875**

Contact:
Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HASTY 1H (Continued) **S111054875**

Title: Pumper
Modification Date: 3/8/2013

Chemical Inventory:
Facility Id: FATR20127R49ZK05C0XC
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR20127R49ZK05J0YQ
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/8/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20127R49ZK05K0Z6
Chemical Inventory Record Id: CVTR20127R49ZK05J0YQ
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT THE FACILITY
Last Modified: 3/8/2013

Facility Id: FATR20127R49ZK05C0XC
Chemical Name: GLYCOL
Chemical Inv Record Id: CVTR20127R49ZK05L11G
CAS Number: 107-21-1
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/8/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HASTY 1H (Continued) **S111054875**

Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R49ZK05M11G
Chemical Inventory Record Id:	CVTR20127R49ZK05L11G
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013

Facility Id:	FATR20127R49ZK05C0XC
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20127R49ZK05N12D
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R49ZK05P12V
Chemical Inventory Record Id:	CVTR20127R49ZK05N12D
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HASTY 1H (Continued) **S111054875**

Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/8/2013

Facility Id: FATR20127R49ZK05C0XC
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR20127R49ZK05Q13A
CAS Number: 64742-47-8
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/8/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20127R49ZK05R13S
Chemical Inventory Record Id: CVTR20127R49ZK05Q13A
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/8/2013

Notes: Not reported
Validation: Not reported

Facility Info:
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/21/2011
Id: 21111
Id Type: NAICS
Description: Oil and Gas Extraction
Last Modified: 2/21/2011

Contact:
Contact Email: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HASTY 1H (Continued) **S111054875**

Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HASTY 1H (Continued) **S111054875**

Chemical Inventory:

Facility Id:	FATR20117R49ZK05C0XC
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20117R49ZK05J0YQ
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R49ZK05K0Z6
Chemical Inventory Record Id:	CVTR20117R49ZK05J0YQ
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20117R49ZK05C0XC
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20117R49ZK05L11G
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HASTY 1H (Continued) **S111054875**

Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R49ZK05M11G
Chemical Inventory Record Id:	CVTR20117R49ZK05L11G
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20117R49ZK05C0XC
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20117R49ZK05N12D
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R49ZK05P12V
Chemical Inventory Record Id:	CVTR20117R49ZK05N12D
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HASTY 1H (Continued) **S111054875**

Facility Id:	FATR20117R49ZK05C0XC
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20117R49ZK05Q13A
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R49ZK05R13S
Chemical Inventory Record Id:	CVTR20117R49ZK05Q13A
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Notes:	Not reported
Validation:	Not reported

Facility Info:

Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/21/2011
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/21/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	P.O. BOX 1714
Contact City/State/Zip:	MIDLAND, TX 79702-1714
Contact Mail Country:	USA

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HASTY 1H (Continued) **S111054875**

Contact Type 1:	Owner / Operator
Contact Name:	WAGNER & BROWN
Title:	Not reported
Modification Date:	4/3/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	4/3/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Longview, TX
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	David Tadlock
Title:	MANAGER
Modification Date:	4/3/2011

Chemical Inventory:

Facility Id:	FATR20107R49ZK05C0XC
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20107R49ZK05J0YQ
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HASTY 1H (Continued) **S111054875**

Record Key:	CLTR20107R49ZK05K0Z6
Chemical Inventory Record Id:	CVTR20107R49ZK05J0YQ
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/9/2011
Facility Id:	FATR20107R49ZK05C0XC
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20107R49ZK05L11G
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R49ZK05M11G
Chemical Inventory Record Id:	CVTR20107R49ZK05L11G
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011
Facility Id:	FATR20107R49ZK05C0XC
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20107R49ZK05N12D
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HASTY 1H (Continued) **S111054875**

EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R49ZK05P12V
Chemical Inventory Record Id:	CVTR20107R49ZK05N12D
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011

Facility Id:	FATR20107R49ZK05C0XC
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20107R49ZK05Q13A
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R49ZK05R13S
Chemical Inventory Record Id:	CVTR20107R49ZK05Q13A

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number

HASTY 1H (Continued) **S111054875**

Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011

Notes: Not reported
Validation: Not reported

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2 **GREEN FOX DEEP** **TX TIER 2** **S108871190**
LAT 32.756694 LONG 94.199083 **N/A**
KARNACK, TX 75670

TIER 2:

Facility Id/Name:	FATR201148T50E05YBZC/GREEN FOX DEEP
Reporting Year:	2011
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/16/2012
Date Tier 2 Signed:	02/21/2012
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.756694
Longitude:	94.199083
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR201048T50E05YBZC/GREEN FOX DEEP
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	02/21/2011
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S108871190**

Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.756694
Longitude:	94.199083
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR200648T50E05YBZC/GREEN FOX DEEP
Reporting Year:	2006
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	10/10/2007
Date Tier 2 Signed:	2/08/2007
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Seleta M. Davis
Latitude:	32.756694
Longitude:	94.199083
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/17/2006
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/3/2009

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S108871190**

Contact:
Contact Email: Not reported
Contact Mail Address: P.O. BOX 1714
Contact City/State/Zip: MIDLAND, TX 79702-1714
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: WAGNER & BROWN
Title: Not reported
Modification Date: 4/3/2011

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 4/3/2011

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 4/3/2011

Chemical Inventory:
Facility Id: FATR201048T50E05YBZC
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR201048T50E064C16
CAS Number: 8002-05-9
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/9/2011
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S108871190**

Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201048T50E065C1N
Chemical Inventory Record Id: CVTR201048T50E064C16
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT THE FACILITY
Last Modified: 3/9/2011

Facility Id: FATR201048T50E05YBZC
Chemical Name: GLYCOL
Chemical Inv Record Id: CVTR201048T50E066C24
CAS Number: 107-21-1
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/9/2011
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201048T50E067C2K
Chemical Inventory Record Id: CVTR201048T50E066C24
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/9/2011

Facility Id: FATR201048T50E05YBZC
Chemical Name: METHANOL
Chemical Inv Record Id: CVTR201048T50E068C31
CAS Number: 67-56-1

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S108871190**

Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201048T50E069C3H
Chemical Inventory Record Id:	CVTR201048T50E068C31
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011

Facility Id:	FATR201048T50E05YBZC
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR201048T50E06CC4E
CAS Number:	64742-47-8
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S108871190**

Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201048T50E06DC4V
Chemical Inventory Record Id: CVTR201048T50E06CC4E
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/9/2011

Notes: Not reported
Validation: Not reported

Notes: Not reported
Validation: Not reported

Facility Info:
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/17/2006
Id: 21111
Id Type: NAICS
Description: Oil and Gas Extraction
Last Modified: 2/3/2009

Contact:
Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S108871190**

Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Chemical Inventory:
Facility Id: FATR201148T50E05YBZC
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR201148T50E064C16
CAS Number: 8002-05-9
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 2/24/2012
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: Not reported
Reactive Hazard: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S108871190**

Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201148T50E065C1N
Chemical Inventory Record Id:	CVTR201148T50E064C16
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR201148T50E05YBZC
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR201148T50E066C24
CAS Number:	107-21-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201148T50E067C2K
Chemical Inventory Record Id:	CVTR201148T50E066C24
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR201148T50E05YBZC
Chemical Name:	METHANOL

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S108871190**

Chemical Inv Record Id:	CVTR201148T50E068C31
CAS Number:	67-56-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201148T50E069C3H
Chemical Inventory Record Id:	CVTR201148T50E068C31
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR201148T50E05YBZC
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR201148T50E06CC4E
CAS Number:	64742-47-8
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S108871190**

Contact Label: Not reported
Label Code: TX2011
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201148T50E06DC4V
Chemical Inventory Record Id: CVTR201148T50E06CC4E
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 2/24/2012

Notes: Not reported
Validation: Not reported

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2 **GREEN FOX DEEP** **TX TIER 2** **S110395072**
LAT 32.756694 LONG 94.199083 **N/A**
KARNACK, TX 75670

TIER 2:
Facility Id/Name: FATR200948T50E05YBZC/GREEN FOX DEEP
Reporting Year: 2009
Facility Country: USA
Facility Department: Not reported
Facility Date Modified: 5/24/2010
Date Tier 2 Signed: 2/23/2010
Mailing Address: Not reported
Mailing City/State/Country: Not reported
Dikes/Other Safeguard Meas Emp: Not reported
All Chemicals Same As Last Year: Not reported
State Fees Total: Not reported
Number Of Employess On Site: Not reported
Site Map: Not reported
Fire District: Not reported
Submitted By: Phillip White
Latitude: 32.756694
Longitude: 94.199083
Lat/Long Location Desc: TB-Tank Battery
Lat/Long Method: G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted: Not reported
Number Of Emp. Required: Not reported
Fail Valid: Not reported
Site Coordinate Abbr Submitted: Not reported
Mail Address: Not reported
Mail City: Not reported
Mail State Req.: Not reported
Fire District: Not reported
Additional Mail Addr: Not reported

Facility Info:
Id: 1311
Id Type: SIC

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S110395072**

Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/17/2006
Id: 21111
Id Type: NAICS
Description: Oil and Gas Extraction
Last Modified: 2/3/2009

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: JERRY HAMILTON
Title: MANAGER
Modification Date: 3/1/2010

Contact:
Contact Email: Not reported
Contact Mail Address: P.O. BOX 6531
Contact City/State/Zip: LONGVIEW, TX 75608-6531
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: PAUL KAPASKO
Title: OPERATIONS MANAGER
Modification Date: 3/14/2010

Contact:
Contact Email: Not reported
Contact Mail Address: P.O. BOX 6531
Contact City/State/Zip: LONGVIEW, TX 75608-6531
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: C W RESOURCES, INC.
Title: Not reported
Modification Date: 3/14/2010

Contact:
Contact Email: Not reported
Contact Mail Address: P.O. BOX 6531
Contact City/State/Zip: LONGVIEW, TX 75608-6531
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: ROBERT WESTERMAN
Title: Not reported
Modification Date: 3/14/2010

Contact:
Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S110395072**

Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company
Title:	Not reported
Modification Date:	3/14/2010

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	KENNETH Doan
Title:	Production Foreman
Modification Date:	3/14/2010

Chemical Inventory:

Facility Id:	FATR200948T50E05YBZC
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR200948T50E064C16
CAS Number:	8002-05-9
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/1/2010
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR200948T50E065C1N
Chemical Inventory Record Id:	CVTR200948T50E064C16
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/1/2010

Facility Id:	FATR200948T50E05YBZC

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S110395072**

Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR200948T50E066C24
CAS Number:	107-21-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/1/2010
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR200948T50E067C2K
Chemical Inventory Record Id:	CVTR200948T50E066C24
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/1/2010

Facility Id:	FATR200948T50E05YBZC
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR200948T50E068C31
CAS Number:	67-56-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/1/2010
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S110395072**

Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2009
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR200948T50E069C3H
Chemical Inventory Record Id: CVTR200948T50E068C31
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/1/2010

Facility Id: FATR200948T50E05YBZC
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR200948T50E06CC4E
CAS Number: 64742-47-8
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/1/2010
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2009
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR200948T50E06DC4V
Chemical Inventory Record Id: CVTR200948T50E06CC4E
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/1/2010

Notes: Not reported

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
	GREEN FOX DEEP (Continued)		**S110395072**
	Validation: This facility passed all validation checks.		
2	**GREEN FOX DEEP** **LAT 32.756694 LONG 94.199083** **KARNACK, TX 75670**	**TX TIER 2**	**S108460014** **N/A**

TIER 2:

Facility Id/Name:	FATR201248T50E05YBZC/GREEN FOX DEEP
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/8/2013
Date Tier 2 Signed:	02/19/2013
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.756694
Longitude:	94.199083
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR200848T50E05YBZC/GREEN FOX DEEP
Reporting Year:	2008
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/30/2009
Date Tier 2 Signed:	2/03/2009
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	True
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.756694
Longitude:	94.199083
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S108460014**

Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported
Facility Id/Name:	FATR200548T50E05YBZC/GREEN FOX DEEP
Reporting Year:	2005
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	2/27/2007
Date Tier 2 Signed:	Not reported
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	SELETA M. DAVIS
Latitude:	32.756694
Longitude:	94.199083
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	T
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/3/2009
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/17/2006

Contact:

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company
Title:	Not reported
Modification Date:	3/9/2013

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S108460014**

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Chemical Inventory:
Facility Id: FATR201248T50E05YBZC
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR201248T50E064C16
CAS Number: 8002-05-9
Chemical Same As Last Year: T
Acute Health Risks: T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S108460014**

Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201248T50E065C1N
Chemical Inventory Record Id:	CVTR201248T50E064C16
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/8/2013

Facility Id:	FATR201248T50E05YBZC
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR201248T50E066C24
CAS Number:	107-21-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S108460014**

Chemical Inventory Location:

Record Key:	CLTR201248T50E067C2K
Chemical Inventory Record Id:	CVTR201248T50E066C24
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013
Facility Id:	FATR201248T50E05YBZC
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR201248T50E068C31
CAS Number:	67-56-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201248T50E069C3H
Chemical Inventory Record Id:	CVTR201248T50E068C31
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013
Facility Id:	FATR201248T50E05YBZC
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR201248T50E06CC4E
CAS Number:	64742-47-8
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP (Continued) **S108460014**

Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201248T50E06DC4V
Chemical Inventory Record Id:	CVTR201248T50E06CC4E
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013

Notes: Not reported
Validation: Not reported

Notes: Not reported
Validation: Not reported

Notes: Not reported

Validation: This facility passed all validation checks.

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3 **DAVIS (14868)** **TX TIER 2** **S113690904**
N/A

GRAY, TX 75657

TIER 2:

Facility Id/Name:	FATR201293BBDA0548Z0/DAVIS (14868)
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/8/2013
Date Tier 2 Signed:	2/11/2013
Mailing Address:	P.O.Box 3234
Mailing City/State/Country:	Abilene, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

DAVIS (14868) (Continued) **S113690904**

All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	1
Site Map:	Not reported
Fire District:	Gray
Submitted By:	Sheryl Minear
Latitude:	32.7518844
Longitude:	-94.0726379
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G1 - GPS (Static)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	1311
Id Type:	Dun & Bradstreet
Description:	Not reported
Last Modified:	2/5/2013
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/5/2013

Contact:

Contact Email:	gene@sojodrilling.com
Contact Mail Address:	P.O. Box 3234
Contact City/State/Zip:	Abilene, TX 79604
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	Gene Brady
Title:	Not reported
Modification Date:	2/24/2013

Contact:

Contact Email:	randy@sojodrilling.com
Contact Mail Address:	P.O. Box 3234
Contact City/State/Zip:	Abilene, TX 79604
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	Randy Davis
Title:	Not reported
Modification Date:	2/24/2013

Contact:

Contact Email:	txsis11357@aol.com
Contact Mail Address:	719 MA Co. Rd. 3500

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

DAVIS (14868) (Continued) **S113690904**

Contact City/State/Zip: Jefferson, TX 75657
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: Johnny McNeely
Title: Pumper
Modification Date: 2/23/2013

Contact:
Contact Email: william@sojodrilling.com
Contact Mail Address: P.O. Box 3234
Contact City/State/Zip: Abilene, TX 79604
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: William Sojourner
Title: President
Modification Date: 2/24/2013

Chemical Inventory:
Facility Id: FATR201293BBDA0548Z0
Chemical Name: CRUDE OIL, PETROLEUM, [COMBUSTIBLE LIQUID LABEL]
Chemical Inv Record Id: CVTR201293BBDA05B92P
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: 88200
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 2/22/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: Not reported
Sudden Release Of Pressure Haz: Not reported
Pure Form: T
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201293G4U2013K9P
Chemical Inventory Record Id: CVTR201293BBDA05B92P
Amt Of Sub Stored Or Transported: 300
Amount Units: barrels
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Tank Battery
Last Modified: 2/22/2013

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

DAVIS (14868) (Continued) **S113690904**

Record Key:	CLTR201293G4VT01427R
Chemical Inventory Record Id:	CVTR201293BBDA05B92P
Amt Of Sub Stored Or Transported:	147
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	Tank Battery
Last Modified:	2/22/2013

Notes: Not reported
Validation: Not reported

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4 **SKEETERS MARINA** **TX AST** **A100299294**
398 PRIVATE ROAD 7220 **N/A**
JEFFERSON, TX 75657

AST:

Name:	SKEETERS MARINA
Address:	398 PRIVATE ROAD 7220
City,State,Zip:	JEFFERSON, TX 756575383
Facility ID:	120461
Additional ID:	292387362007194
AI Number:	78155
Facility Type:	RETAIL
Facility Begin Date:	07/06/2003
Facility Status:	ACTIVE
Facility Exempt Status:	N
Records Off-Site:	N
UST Financial Assurance Required:	N
Number of Active ASTs:	1
Site Location Description:	LOT 19
Site Location (nearest city name):	Not reported
Site Location (county name):	MARION
Site Location (TCEQ region):	5
Site Location (location zip):	75657
Contact Name/Title:	ROBERT PEPPER/
Contact Organization Name:	SKEETERS MARINA
Contact Mailing Address1:	Not reported
Contact Mailing Address2:	Not reported
Contact CityStateZip:	Not reported
Contact Telephone:	9036653000
Contact Address Deliverable:	Not reported
Contact Fax Number:	Not reported
Contact Email Address:	Not reported
Signature Date on Earliest Reg Form:	08/14/2006
Signature First Name on Earliest Reg Form:	AARON
Application Received Date on Earliest Reg Form:	08/17/2006
Signature Middle Name on Earliest Reg Form:	Not reported
Signature Last Name on Earliest Reg Form:	NILSSON
Signature Title on Earliest Reg Form:	V PRESIDENT
Signature Role on Earliest Reg Form:	OWNER
Signature Company on Earliest Reg Form:	Not reported
Enforcement Action:	Not reported
Facility Not Inspectable:	N
Facility Not Inspectable Reason A:	Not reported

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.) | Site | Database(s) | EDR ID Number / EPA ID Number

SKEETERS MARINA (Continued) **A100299294**

Facility Not Inspectable Reason B: Not reported
Enforcement Action Date: Not reported

Facility:
Facility ID: 120461
Tank ID: L
AST ID: 207125
AI Number: 78155
Install Date: 07/06/2003
Tank Registration Date: 08/17/2006
Mult Comp: N
Tank Status: IN USE
Tank Status Date: 07/06/2003
Tank Reg Status: FULLY REGULATED
Tank Capacity: 2000
Substance: GASOLINE
Other Substance B: Not reported
Other Substance C: Not reported
Steel: Y
Fiber: N
Aluminum: N
Metal: N
Concrete: N
Dike: N
Liner: N
Contains CO: N
Contains NO: N
Vapor Rec: Not reported
Inst Stage Date: Not reported

---

4 **BAYOU RIVER RUN** **FINDS** **1010705712**
398 PRIVATE ROAD 7220 **N/A**
JEFFERSON, TX 75657

FINDS:
Registry ID: 110033284283

Click Here:

Environmental Interest/Information System:
Texas Commission on Environmental Quality - Agency Central Registry (TX-TCEQ ACR) is a computer application that allows the Texas Commission on Environmental Quality (TCEQ) to use a single, centralized area to record common information, such as the company names, addresses, and telephone numbers of those the TCEQ regulates. It also contains additional IDs (permits, registrations, authorizations, etc) and their status.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

5 PELICAN LODGE - BURN COMPLAINT — **LA SPILLS** — **S121205309** / **N/A**
9754 PELICAN LODGE ROAD
VIVIAN, LA 71082

SPILLS:

Name:	PELICAN LODGE - BURN COMPLAINT
Address:	9754 PELICAN LODGE ROAD
City,State,Zip:	VIVIAN, LA 71082
Receive Date:	08/23/2017
Incident Date:	08/23/2017
Quantity:	Not reported
Units:	Not reported
Parameter:	Not reported
Incident ID:	179686
Other Description:	Burning Solid Waste
AI ID:	207991
Incident Status:	Pending Review
Media Desc:	Soil/Air
Location Description:	9700 blk. of Pelican Lodge Rd. ; Vivian
Start Date:	Not reported
Region:	NW
Reporter Name:	Carolyn Allen
Mailing Address:	9727 Pelican Lodge Road
Mailing City:	Vivian
Mailing State:	LA
Mailing Zip:	71082
Organization Name:	Not reported
Incident Desc:	c17-101389 individuals burning solid waste on property CML
Incident Type Desc:	Complaint, Open Burning
Comments:	AOC - Y A citizen complaint was received regarding the demolition and burning of a trailer that was flooded last year. The complainant was concerned about possible asbestos in the trailer and the smoke causing breathing problems. At the time of inspection, a large burn pile was located in the middle of the property, and flames and smoke were present. Metal, wood, concrete, plastic, glass, drywall and ceramic material were observed by Andrew Sherman and myself in the burn pile. No suspect asbestos-containing materials were observed. The burn area was recently bulldozed to consolidate the material; fresh tread tracks were observed. The owner was not on site, but called me later in the day. Joe Humphries stated he had recently purchased the property and was getting rid of the flooded trailer so he could move a new one onto the property. Mr. Humphries stated he had removed most of the material from the trailer before burning it. Mr. Humphries stated only wood and metal should have been left. Mr. Humphries stated he would recycle the remaining metal. I informed Mr. Humphries the remaining waste would need to be disposed of properly, and manifest provided. Referred to Enforcement KSM

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5 STATE A SWD — **LA UIC** — **S109977530** / **N/A**

, LA

UIC:

Name:	STATE A SWD
Address:	Not reported
City,State,Zip:	LA
Location:	Not reported
Org Id:	F107
Org Oper Name:	FROG ISLAND, L.L.C.
Field Id:	2152

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

STATE A SWD (Continued) **S109977530**

Field Name:	CADDO PINE ISLAND
Well Class:	II
Well Class Type Code Description:	COMMUNITY SALT WATER DISPOSAL
API Num:	17017880170000
Wells Serial Num:	970255
Well Num:	001
Section:	008
Township:	20N
Well Range:	16W
Parish Code:	09
Well Status Code:	09
Well Status Code Description:	ACTIVE- INJECTION
Well Status Date:	05/01/1966
Address1:	Not reported
Address2:	Not reported
Address2:	Not reported
Permit Date:	04/05/1966
Effective Date:	05/01/2001
Meridian:	W
Field District Name:	Shreveport
Field Area Code:	Onshore
Product Type Code:	00
Product Type Code Description:	NO PRODUCT SPECIFIED
Measured Depth:	1040
Longitude Degrees:	Not reported
Longitude Minutes:	Not reported
Longitude Seconds:	Not reported
Latitude Degrees:	Not reported
Latitude Minutes:	Not reported
Latitude Seconds:	Not reported
G UTMX:	Not reported
G UTMY:	Not reported
G LATY:	32.7392609
G LONGX:	-94.040716
Legend:	09II5-C
Hyperlink:	http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=970255
Doc Access:	http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=970255
Upper Perf:	975;975
Lower Perf:	990;990

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5 **EARL TODD** **LA SPILLS** **S109558147**
9754 PELICAN LODGE RD **N/A**
CADDO (County), LA

SPILLS:

Name:	EARL TODD
Address:	9754 PELICAN LODGE RD
City,State,Zip:	LA
Receive Date:	11/15/2007
Incident Date:	11/14/2007
Quantity:	Not reported
Units:	Not reported
Parameter:	Not reported
Incident ID:	101063
Other Description:	Not reported
AI ID:	83553
Incident Status:	Closed

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

EARL TODD (Continued) **S109558147**

Media Desc:	Soil
Location Description:	Earl Todd 9754 Pelican Lodge Rd Vivian
Start Date:	Not reported
Region:	Not reported
Reporter Name:	Not reported
Mailing Address:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Organization Name:	Caddo Parish
Incident Desc:	s07-4012 Salt water came out of the side of the well head and ran out onto the ground...jd
Incident Type Desc:	Not reported
Comments:	Not reported

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6 **GREEN FOX DEEP UNIT 2 WELL # 1** **TX TIER 2** **S108871191**
LAT 32.738861 LONG 94.202250 **N/A**
KARNACK, TX 75670

TIER 2:

Facility Id:	FATR20124XTG1R01XZGT
Facility Name:	GREEN FOX DEEP UNIT 2 WELL # 1
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/8/2013
Date Tier 2 Signed:	02/19/2013
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.738861
Longitude:	94.202250
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id:	FATR20114XTG1R01XZGT
Facility Name:	GREEN FOX DEEP UNIT 2 WELL # 1
Reporting Year:	2011
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/16/2012
Date Tier 2 Signed:	02/21/2012
Mailing Address:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S108871191**

Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.738861
Longitude:	94.202250
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id:	FATR20104XTG1R01XZGT
Facility Name:	GREEN FOX DEEP UNIT 2 WELL # 1
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	02/21/2011
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.738861
Longitude:	94.202250
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id:	FATR20084XTG1R01XZGT
Facility Name:	GREEN FOX DEEP UNIT 2 WELL # 1
Reporting Year:	2008
Facility Country:	USA
Facility Department:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S108871191**

Facility Date Modified:	6/30/2009
Date Tier 2 Signed:	2/03/2009
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	True
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.738861
Longitude:	94.202250
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id:	FATR20064XTG1R01XZGT
Facility Name:	GREEN FOX DEEP UNIT 2 WELL # 1
Reporting Year:	2006
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	10/10/2007
Date Tier 2 Signed:	2/08/2007
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Seleta M. Davis
Latitude:	32.738861
Longitude:	94.202250
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	1311

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S108871191**

Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/8/2007
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/3/2009

Contact:

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company
Title:	Not reported
Modification Date:	3/9/2013

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company
Title:	Not reported
Modification Date:	3/9/2013

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Longview, TX
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	David Tadlock
Title:	MANAGER
Modification Date:	3/8/2013

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Longview, TX
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	David Tadlock
Title:	MANAGER
Modification Date:	3/8/2013

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S108871191**

Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Chemical Inventory:
Facility Id: FATR20124XTG1R01XZGT
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR20124XTG1R023ZXH
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/8/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20124XTG1S024ZZT
Chemical Inventory Record Id: CVTR20124XTG1R023ZXH
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT THE FACILITY
Last Modified: 3/8/2013

Facility Id: FATR20124XTG1R01XZGT
Chemical Name: GLYCOL
Chemical Inv Record Id: CVTR20124XTG1S02503G
CAS Number: 107-21-1
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S108871191**

Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20124XTG1S02604D
Chemical Inventory Record Id:	CVTR20124XTG1S02503G
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013

Facility Id:	FATR20124XTG1R01XZGT
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20124XTG1S027068
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S108871191**

Chemical Inventory Location:

Record Key:	CLTR20124XTG1S028075
Chemical Inventory Record Id:	CVTR20124XTG1S027068
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013

Facility Id:	FATR20124XTG1R01XZGT
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20124XTG1S02B0GT
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20124XTG1S02C0HQ
Chemical Inventory Record Id:	CVTR20124XTG1S02B0GT
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013

Notes: Not reported
Validation: Not reported

Facility Info:

Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S108871191**

Last Modified:	2/3/2009
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/8/2007

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	4/3/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Longview, TX
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	David Tadlock
Title:	MANAGER
Modification Date:	4/3/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	P.O. BOX 1714
Contact City/State/Zip:	MIDLAND, TX 79702-1714
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	WAGNER & BROWN
Title:	Not reported
Modification Date:	4/3/2011

Chemical Inventory:

Facility Id:	FATR20104XTG1R01XZGT
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20104XTG1R023ZXH
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S108871191**

Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20104XTG1S024ZZT
Chemical Inventory Record Id:	CVTR20104XTG1R023ZXH
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/9/2011

Facility Id:	FATR20104XTG1R01XZGT
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20104XTG1S02503G
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20104XTG1S02604D
Chemical Inventory Record Id:	CVTR20104XTG1S02503G
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S108871191**

Last Modified:	3/9/2011
Facility Id:	FATR20104XTG1R01XZGT
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20104XTG1S027068
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20104XTG1S028075
Chemical Inventory Record Id:	CVTR20104XTG1S027068
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011
Facility Id:	FATR20104XTG1R01XZGT
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20104XTG1S02B0GT
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S108871191**

Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20104XTG1S02C0HQ
Chemical Inventory Record Id: CVTR20104XTG1S02B0GT
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/9/2011

Notes: Not reported
Validation: Not reported

Notes: Not reported

Validation: This facility passed all validation checks.

Notes: Not reported
Validation: Not reported

Facility Info:
Id: 21111
Id Type: NAICS
Description: Oil and Gas Extraction
Last Modified: 2/3/2009
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/8/2007

Contact:
Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S108871191**

Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Chemical Inventory:
Facility Id: FATR20114XTG1R01XZGT
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR20114XTG1R023ZXH
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S108871191**

EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20114XTG1S024ZZT
Chemical Inventory Record Id:	CVTR20114XTG1R023ZXH
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20114XTG1R01XZGT
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20114XTG1S02503G
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20114XTG1S02604D
Chemical Inventory Record Id:	CVTR20114XTG1S02503G

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S108871191**

Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20114XTG1R01XZGT
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20114XTG1S027068
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20114XTG1S028075
Chemical Inventory Record Id:	CVTR20114XTG1S027068
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20114XTG1R01XZGT
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20114XTG1S02B0GT
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S108871191**

Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20114XTG1S02C0HQ
Chemical Inventory Record Id:	CVTR20114XTG1S02B0GT
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Notes: Not reported
Validation: Not reported

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6 **GREEN FOX DEEP UNIT 2 WELL # 1** **TX TIER 2** **S110395073**
LAT 32.738861 LONG 94.202250 **N/A**
KARNACK, TX 75670

TIER 2:

Facility Id:	FATR20094XTG1R01XZGT
Facility Name:	GREEN FOX DEEP UNIT 2 WELL # 1
Reporting Year:	2009
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/24/2010
Date Tier 2 Signed:	2/23/2010
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.738861
Longitude:	94.202250
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S110395073**

Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/8/2007
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/3/2009

Contact:

Contact Email:	Not reported
Contact Mail Address:	P.O. BOX 6531
Contact City/State/Zip:	LONGVIEW, TX 75608-6531
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	C W RESOURCES, INC.
Title:	Not reported
Modification Date:	3/14/2010

Contact:

Contact Email:	Not reported
Contact Mail Address:	P.O. BOX 6531
Contact City/State/Zip:	LONGVIEW, TX 75608-6531
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	ROBERT WESTERMAN
Title:	Not reported
Modification Date:	3/14/2010

Contact:

Contact Email:	Not reported
Contact Mail Address:	P.O. BOX 6531
Contact City/State/Zip:	LONGVIEW, TX 75608-6531
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	PAUL KAPASKO
Title:	OPERATIONS MANAGER
Modification Date:	3/14/2010

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S110395073**

Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	JERRY HAMILTON
Title:	MANAGER
Modification Date:	3/1/2010

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	KENNETH Doan
Title:	Production Foreman
Modification Date:	3/14/2010

Contact:

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company
Title:	Not reported
Modification Date:	3/14/2010

Chemical Inventory:

Facility Id:	FATR20094XTG1R01XZGT
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20094XTG1R023ZXH
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/1/2010
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S110395073**

Chemical Inventory Location:

Record Key:	CLTR20094XTG1S024ZZT
Chemical Inventory Record Id:	CVTR20094XTG1R023ZXH
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/1/2010
Facility Id:	FATR20094XTG1R01XZGT
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20094XTG1S02503G
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/1/2010
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20094XTG1S02604D
Chemical Inventory Record Id:	CVTR20094XTG1S02503G
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/1/2010
Facility Id:	FATR20094XTG1R01XZGT
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20094XTG1S027068
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S110395073**

Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/1/2010
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20094XTG1S028075
Chemical Inventory Record Id:	CVTR20094XTG1S027068
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/1/2010

Facility Id:	FATR20094XTG1R01XZGT
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20094XTG1S02B0GT
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/1/2010
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

Chemical Inventory Location:

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GREEN FOX DEEP UNIT 2 WELL # 1 (Continued) **S110395073**

Record Key:	CLTR20094XTG1S02C0HQ
Chemical Inventory Record Id:	CVTR20094XTG1S02B0GT
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/1/2010

Notes: Not reported

Validation: This facility passed all validation checks.

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7 **PALA** **LA UIC** **S110451728**
N/A

, LA

UIC:

Name:	PALA
Address:	Not reported
City,State,Zip:	LA
Location:	Not reported
Org Id:	6204
Org Oper Name:	W & K OIL CO.
Field Id:	2152
Field Name:	CADDO PINE ISLAND
Well Class:	II
Well Class Type Code Description:	PRODUCED SALT WATER
API Num:	17017086720000
Wells Serial Num:	58540
Well Num:	011
Section:	008
Township:	20N
Well Range:	15W
Parish Code:	09
Well Status Code:	30
Well Status Code Description:	PLUGGED AND ABANDONED
Well Status Date:	07/14/1988
Address1:	Not reported
Address2:	Not reported
Address2:	Not reported
Permit Date:	10/03/1955
Effective Date:	08/01/1988
Meridian:	W
Field District Name:	Shreveport
Field Area Code:	Onshore
Product Type Code:	00
Product Type Code Description:	NO PRODUCT SPECIFIED
Measured Depth:	0
Longitude Degrees:	Not reported
Longitude Minutes:	Not reported
Longitude Seconds:	Not reported
Latitude Degrees:	Not reported
Latitude Minutes:	Not reported
Latitude Seconds:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

PALA (Continued) **S110451728**

G UTMX:	Not reported
G UTMY:	Not reported
G LATY:	32.7351278
G LONGX:	-94.042012
Legend:	3000
Hyperlink:	http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=58540
Doc Access:	http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=58540
Upper Perf:	860
Lower Perf:	870

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8 **LIGHTHOUSE GROCERY** **TX SPILLS** **S113437504**
1805 BLAIRS LANDING, KARNACK, TX 78851 **N/A**
KARNACK, TX 78851

SPILLS:

Name:	LIGHTHOUSE GROCERY
Address:	1805 BLAIRS LANDING, KARNACK, TX 78851
City,State,Zip:	KARNACK, TX 78851
Incident Number:	31382
Facility Id:	RN104063466
Date of Spill:	Not reported
Seq Num:	Not reported
Responsible Party Name:	Not reported
Responsible Party Address:	Not reported
Responsible Party City:	Not reported
Responsible Party State:	Not reported
Responsible Party Zip:	Not reported
Responsible Party Telephone:	Not reported
Substance:	Not reported
Material Code:	Not reported
Media Affected:	Not reported
Permit Number:	Not reported
District:	REGION 05 - TYLER
Origin:	Not reported
Cause:	Not reported
Basin Code:	Not reported
Notify Date:	Not reported
Adequate Clean:	Not reported
Classification:	unknown
Basin Name:	Not reported
Water Affected:	Not reported
Amnt Spilled:	Not reported
Amnt in Water:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Inspected By:	Not reported
Interim Report:	Not reported
Enforce:	Not reported
Information Final:	Not reported
Coordinator:	Not reported
Time Reported:	Not reported
Spill Time:	Not reported
Incident Type:	No Incident Type
Near City Name:	KARNACK
Importance Level:	5
Received Date:	12/02/2003
Start Date:	12/30/1899

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

LIGHTHOUSE GROCERY (Continued) **S113437504**

Status Date:	12/03/2003
Media Name:	WASTE
Customer:	JONES, CECIL
Effect:	ENVIRONMEN
Num Complaining:	1
Frequency:	CURRENT
Nature:	OTHER
Watertext:	Not reported
Air Text:	Not reported
Incident Status:	Closed
Disputed Status:	Not reported
Disputed Date:	12/02/2003
Comments:	An investigation will be conducted within thirty days from the Region 5 office. The sewage portion of the complaint will be forwarded to the appropriate designated representative for on site sewage facilities.
Incident Action:	Not reported
Incident Description:	Not reported

---

8 **LIGHTHOUSE GROCERY** **FINDS** **1010768350**
1805 BLAIRS LANDING RD **N/A**
KARNACK, TX 75661

FINDS:
Registry ID: 110033834117

Click Here:

Environmental Interest/Information System:
Texas Commission on Environmental Quality - Agency Central Registry (TX-TCEQ ACR) is a computer application that allows the Texas Commission on Environmental Quality (TCEQ) to use a single, centralized area to record common information, such as the company names, addresses, and telephone numbers of those the TCEQ regulates. It also contains additional IDs (permits, registrations, authorizations, etc) and their status.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

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9 **WALKER HEIRS 1H** **TX TIER 2** **S111054871**
LAT 32.7288896 LONG 94.1947404 **N/A**
KARNACK, TX 75670

TIER 2:

Facility Id/Name:	FATR20127R49SL04J0C0/WALKER HEIRS 1H
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/8/2013
Date Tier 2 Signed:	02/19/2013
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

WALKER HEIRS 1H (Continued) **S111054871**

Submitted By:	Phillip White
Latitude:	32.7288896
Longitude:	94.1947404
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20117R49SL04J0C0/WALKER HEIRS 1H
Reporting Year:	2011
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/16/2012
Date Tier 2 Signed:	02/21/2012
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7288896
Longitude:	94.1947404
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20107R49SL04J0C0/WALKER HEIRS 1H
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	02/21/2011
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

WALKER HEIRS 1H (Continued) **S111054871**

Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7288896
Longitude:	94.1947404
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/21/2011
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/21/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Longview, TX
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	David Tadlock
Title:	MANAGER
Modification Date:	4/3/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	4/3/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	P.O. BOX 1714
Contact City/State/Zip:	MIDLAND, TX 79702-1714
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	WAGNER & BROWN

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

WALKER HEIRS 1H (Continued) **S111054871**

Title:	Not reported
Modification Date:	4/3/2011

Chemical Inventory:

Facility Id:	FATR20107R49SL04J0C0
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20107R49SL04Q0CX
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R49SL04R0DC
Chemical Inventory Record Id:	CVTR20107R49SL04Q0CX
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/9/2011

Facility Id:	FATR20107R49SL04J0C0
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20107R49SL04S0FN
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

WALKER HEIRS 1H (Continued) **S111054871**

Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R49SL04T0G4
Chemical Inventory Record Id:	CVTR20107R49SL04S0FN
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011

Facility Id:	FATR20107R49SL04J0C0
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20107R49SL04U0GL
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R49SL04V0H1
Chemical Inventory Record Id:	CVTR20107R49SL04U0GL
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

WALKER HEIRS 1H (Continued) **S111054871**

Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/9/2011

Facility Id: FATR20107R49SL04J0C0
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR20107R49SL04W0HY
CAS Number: 64742-47-8
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/9/2011
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20107R49SL04X0HY
Chemical Inventory Record Id: CVTR20107R49SL04W0HY
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/9/2011

Notes: Not reported
Validation: Not reported

Facility Info:
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/21/2011
Id: 21111
Id Type: NAICS
Description: Oil and Gas Extraction
Last Modified: 2/21/2011

Contact:
Contact Email: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

WALKER HEIRS 1H (Continued) **S111054871**

Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

WALKER HEIRS 1H (Continued) **S111054871**

Chemical Inventory:

Facility Id:	FATR20127R49SL04J0C0
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20127R49SL04Q0CX
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R49SL04R0DC
Chemical Inventory Record Id:	CVTR20127R49SL04Q0CX
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/8/2013

Facility Id:	FATR20127R49SL04J0C0
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20127R49SL04S0FN
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

WALKER HEIRS 1H (Continued) **S111054871**

Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R49SL04T0G4
Chemical Inventory Record Id:	CVTR20127R49SL04S0FN
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013

Facility Id:	FATR20127R49SL04J0C0
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20127R49SL04U0GL
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R49SL04V0H1
Chemical Inventory Record Id:	CVTR20127R49SL04U0GL
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

WALKER HEIRS 1H (Continued) **S111054871**

Facility Id:	FATR20127R49SL04J0C0
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20127R49SL04W0HY
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R49SL04X0HY
Chemical Inventory Record Id:	CVTR20127R49SL04W0HY
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013

Notes:	Not reported
Validation:	Not reported

Facility Info:

Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/21/2011
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/21/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

WALKER HEIRS 1H (Continued) **S111054871**

Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Chemical Inventory:
Facility Id: FATR20117R49SL04J0C0

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

WALKER HEIRS 1H (Continued) **S111054871**

Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20117R49SL04Q0CX
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R49SL04R0DC
Chemical Inventory Record Id:	CVTR20117R49SL04Q0CX
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20117R49SL04J0C0
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20117R49SL04S0FN
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

WALKER HEIRS 1H (Continued) **S111054871**

Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2011
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20117R49SL04T0G4
Chemical Inventory Record Id: CVTR20117R49SL04S0FN
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 2/24/2012

Facility Id: FATR20117R49SL04J0C0
Chemical Name: METHANOL
Chemical Inv Record Id: CVTR20117R49SL04U0GL
CAS Number: 67-56-1
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 2/24/2012
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2011
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20117R49SL04V0H1
Chemical Inventory Record Id: CVTR20117R49SL04U0GL
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 2/24/2012

Facility Id: FATR20117R49SL04J0C0
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR20117R49SL04W0HY

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

WALKER HEIRS 1H (Continued) **S111054871**

CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R49SL04X0HY
Chemical Inventory Record Id:	CVTR20117R49SL04W0HY
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Notes: Not reported
Validation: Not reported

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10 **HARRISON COUNTY PRECINCT 2 LANDFILL** **TX SWF/LF** **S106821346**
1.5 MILE NORTHWEST OF UNCERTAIN 1000 FEET EAST OF COUNTY ROA **N/A**
UNKNOWN, TX

SWF/LF:

Name:	HARRISON COUNTY PRECINCT 2 LANDFILL
Address:	1.5 MILE NORTHWEST OF UNCERTAIN 1000 FEET EAST OF COUNTY ROAD
City,State,Zip:	UNKNOWN, TX
Region:	5
Permit Number:	305
Facility Status:	CLOSED
Facility Type:	3
Permit Status:	REVOKED
Status Date:	01/25/1996
Mailing Address:	Not reported
Client Name:	CN600744437, Harrison County
Client Address:	200 W HOUSTON ST MARSHALL, TX 75670-4053
Client Telephone:	(214) 935 - 3925

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HARRISON COUNTY PRECINCT 2 LANDFILL (Continued) **S106821346**

Business Type:	COUNTY
Area Served:	HARRISON CO
Estimated Closure Date:	5/1/1985
Permit Acreage:	75
Permit Start:	Not reported
Permit End:	Not reported
Polution Served:	1500
Tons per Day:	3
Yards per Day:	Not reported
Application:	Not reported
Lat/Long:	32.72333 / -94.12417

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10 **TX CLI** **S104730860**

1.5 NORTHWEST OF UNCERTAIN 1000FT EAST OF CO ROAD **N/A**
, TX

CLI:

Facility ID:	305
Facility Name2:	Not reported
Site Status:	UNAUTHORIZED/NON-PERMITTED SITE
Date Recieved:	19750401
County:	Harrison
Region:	Tyler
Near City:	UNCERTAIN
Organic Acres:	2.00
Area Served:	HARRISON CO.
Population Srvd:	1500
Tons per Day:	3
Yards per Day:	0.00
Permit Status:	PC
Removal Status:	RECORDS FILE MISSING!! 7-20-93
Status Date:	**********
Engineer:	Not reported
Source:	1
Source Code:	Not reported
Date Opened:	Not reported
Date Closed:	Not reported
Size - Acres:	Not reported
Size - Cubic Yrds:	Not reported
Lat Deg:	32
Lat Min:	43.40
Long Deg:	94
Long Min:	7.45
Lat/Long (deg):	32.723333 / -94.124167
Owner:	LANE-DOROUGH PINES INC.
Owner Address:	304 E. MERRITT ST.
Owner C,S,Z:	MARSHALL, TX 75670
Business Type:	COUNTY
Facility Type:	3
Version of Amendment:	Not reported
Extra Territorial Jurisdiction:	1
Applicant Name:	HARRISON COUNTY
Applicant Address:	PO BOX 178
Applicant City,St,Zip:	MARSHALL, TX 75670
Applicant Phone:	214 9353925
Est Cleanup Date:	19850501
River Basin Code:	4
Earliest Date in the Records:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

(Continued) **S104730860**

Last Date in Records Site Accepted Waste:	19891229
Texas Counsil of Government Code:	6
Texas Water Commision District Code:	Not reported
Code for Landfill:	1
Parties:	Not reported
Accepts House Hold:	Not reported
Accepts Construction Demolition:	Not reported
Accepts Industrial Waste:	Not reported
Accepts Tires:	Not reported
Accepts Agriculture:	Not reported
Accepts Brush:	Not reported
Accepts Other:	Not reported
Accepts Other Description:	Not reported
Haz Waste Unlikey:	Not reported
Haz Waste Probably:	Not reported
Haz Waste Likey:	Not reported
Legal:	Not reported
Maximum Depth:	Not reported
Depth Code:	Not reported
Final Cover Has Been Applied:	Not reported
Minimun Thickness of Final Cover:	Not reported
In Use Inspector:	Not reported
Inspc Comments:	Not reported
Comments:	Not reported
Update:	2
Reviewer:	PERMIT ISSUED 19791210
Flag:	Not reported

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11 **TAYLOR NO 2 UNIT TANK BATTERY** **TX AIRS** **S116582260**
TX COMP HIST **N/A**

KARNACK, TX

AIRS:

Name:	TAYLOR NO 2 UNIT TANK BATTERY
Address:	Not reported
City,State,Zip:	KARNACK, TX
Permit Num:	86519
Regulated Id:	RN105640734
Permit Type:	PBR
Permit Status:	EFFECTIVE
Permit Issued Date:	11/19/2019
Expiration Date:	12/31/3000
Customer Id:	CN602933681
Company Name:	COMSTOCK OIL & GAS LLC
Physical Location Desc:	FROM MARSHALL TAKE HWY 59N TURN R ON HWY 43 GO 15.0 MI TURN R ON FM 2198 GO 4.1 MI TURN L ON CR 2415 GO .5 MI LOCATION WILL BE ON R
Rep Official(RO):	VICE PRESIDENT OPERATIONS
RO Name:	MR PATRICK MCGOUGH
RO Delivery Address:	5300 TOWN AND COUNTRY BLVD STE 500
RO City/State/Zip:	FRISCO, T 75034-689
RO Phone:	Not reported
RO Ext Num:	Not reported
RO EMail Address:	PMCGOUGH@COMSTOCKRESOURCES.COM
Lat Dec Coord Num:	-94.14249
Long Dec Coord Num:	32.7219000

COMP HIST:

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TAYLOR NO 2 UNIT TANK BATTERY (Continued) **S116582260**

RN Number:	RN105640734
Name:	TAYLOR NO 2 UNIT TANK BATTERY
Address:	Not reported
City,State,Zip:	KARNACK, TX
Region:	REGION 05 - TYLER
CN Number:	CN605168160
CN Name:	COVEY PARK RESOURCES LLC
CN Rating:	0
Classification:	UNCLASSIFIED
Date Calculated:	09/01/2020
Date Published to Web:	11/15/2020
Rating:	0
Classification 2:	UNCLASSIFIED
Date Rated 2:	09/01/2020
Date Published to Web 2:	11/16/2020
NAICS Code:	211111
SIC Code:	1521
Related Number:	61175,86519,86519

RN Number:	RN105640734
Name:	TAYLOR NO 2 UNIT TANK BATTERY
Address:	Not reported
City,State,Zip:	KARNACK, TX
Region:	REGION 05 - TYLER
CN Number:	CN602933681
CN Name:	COMSTOCK OIL & GAS LLC
CN Rating:	0
Classification:	HIGH
Date Calculated:	09/01/2020
Date Published to Web:	11/16/2020
Rating:	0
Classification 2:	UNCLASSIFIED
Date Rated 2:	09/01/2020
Date Published to Web 2:	11/16/2020
NAICS Code:	211111
SIC Code:	4952
Related Number:	61175,86519,86519

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11 **TAYLOR NO 2 UNIT TANK BATTERY** **FINDS** **1011932124**
FROM MARSHALL TAKE HWY 59N TURN R ON HWY 43 GO 15. **N/A**
KARNACK, TX 75661

FINDS:
Registry ID: 110037536743

Click Here:

Environmental Interest/Information System:
Texas Commission on Environmental Quality - Agency Central Registry (TX-TCEQ ACR) is a computer application that allows the Texas Commission on Environmental Quality (TCEQ) to use a single, centralized area to record common information, such as the company names, addresses, and telephone numbers of those the TCEQ regulates. It also contains additional IDs (permits, registrations, authorizations, etc) and their status.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
12	**CLEAR LAKE 1H** **LAT 32.7197491 LONG 94.2038886** **KARNACK, TX 75670**	**TX TIER 2**	**S111054862** **N/A**

TIER 2:

Facility Id/Name:	FATR20127R48XG03QTJN/CLEAR LAKE 1H
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/8/2013
Date Tier 2 Signed:	02/19/2013
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7197491
Longitude:	94.2038886
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20117R48XG03QTJN/CLEAR LAKE 1H
Reporting Year:	2011
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/16/2012
Date Tier 2 Signed:	02/21/2012
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7197491
Longitude:	94.2038886
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CLEAR LAKE 1H (Continued) **S111054862**

Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported
Facility Id/Name:	FATR20107R48XG03QTJN/CLEAR LAKE 1H
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	02/21/2011
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7197491
Longitude:	94.2038886
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/21/2011
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/21/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	P.O. BOX 1714
Contact City/State/Zip:	MIDLAND, TX 79702-1714
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	WAGNER & BROWN
Title:	Not reported
Modification Date:	4/3/2011

Contact:

Contact Email:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CLEAR LAKE 1H (Continued) **S111054862**

Contact Mail Address:	Not reported
Contact City/State/Zip:	Longview, TX
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	David Tadlock
Title:	MANAGER
Modification Date:	4/3/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	4/3/2011

Chemical Inventory:

Facility Id:	FATR20107R48XG03QTJN
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20107R48XG03WTL0
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	4/3/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R48XG03XTL0
Chemical Inventory Record Id:	CVTR20107R48XG03WTL0
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	4/3/2011

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CLEAR LAKE 1H (Continued) **S111054862**

Facility Id:	FATR20107R48XG03QTJN
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20107R48XG03YTNA
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	4/3/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R48XG03ZTNS
Chemical Inventory Record Id:	CVTR20107R48XG03YTNA
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	4/3/2011

Facility Id:	FATR20107R48XG03QTJN
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20107R48XG040TP8
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	4/3/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CLEAR LAKE 1H (Continued) **S111054862**

Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20107R48XG041TPP
Chemical Inventory Record Id: CVTR20107R48XG040TP8
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 4/3/2011

Facility Id: FATR20107R48XG03QTJN
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR20107R48XG042TQ5
CAS Number: 64742-47-8
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 4/3/2011
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20107R48XG043TQL
Chemical Inventory Record Id: CVTR20107R48XG042TQ5
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 4/3/2011

Notes: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CLEAR LAKE 1H (Continued) **S111054862**

Validation: Not reported

Facility Info:
Id: 21111
Id Type: NAICS
Description: Oil and Gas Extraction
Last Modified: 2/21/2011
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/21/2011

Contact:
Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CLEAR LAKE 1H (Continued) **S111054862**

Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Chemical Inventory:
Facility Id: FATR20127R48XG03QTJN
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR20127R48XG03WTL0
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/7/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20127R48XG03XTL0
Chemical Inventory Record Id: CVTR20127R48XG03WTL0
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT THE FACILITY
Last Modified: 3/7/2013

Facility Id: FATR20127R48XG03QTJN
Chemical Name: GLYCOL

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CLEAR LAKE 1H (Continued) **S111054862**

Chemical Inv Record Id:	CVTR20127R48XG03YTNA
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/7/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R48XG03ZTNS
Chemical Inventory Record Id:	CVTR20127R48XG03YTNA
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/7/2013

Facility Id:	FATR20127R48XG03QTJN
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20127R48XG040TP8
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/7/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CLEAR LAKE 1H (Continued) **S111054862**

Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20127R48XG041TPP
Chemical Inventory Record Id: CVTR20127R48XG040TP8
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/7/2013

Facility Id: FATR20127R48XG03QTJN
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR20127R48XG042TQ5
CAS Number: 64742-47-8
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/7/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20127R48XG043TQL
Chemical Inventory Record Id: CVTR20127R48XG042TQ5
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/7/2013

Notes: Not reported
Validation: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CLEAR LAKE 1H (Continued) **S111054862**

Facility Info:
- Id: 21111
- Id Type: NAICS
- Description: Oil and Gas Extraction
- Last Modified: 2/21/2011
- Id: 1311
- Id Type: SIC
- Description: CRUDE PETROLEUM & NATURAL GAS
- Last Modified: 2/21/2011

Contact:
- Contact Email: Not reported
- Contact Mail Address: 4601 McCann Rd.
- Contact City/State/Zip: Longview, TX 75605
- Contact Mail Country: USA
- Contact Type 1: Owner / Operator
- Contact Name: Chinn Exploration Company
- Title: Not reported
- Modification Date: 2/29/2012

- Contact Email: Not reported
- Contact Mail Address: 4601 McCann Rd.
- Contact City/State/Zip: Longview, TX 75605
- Contact Mail Country: USA
- Contact Type 1: Owner / Operator
- Contact Name: Chinn Exploration Company
- Title: Not reported
- Modification Date: 2/29/2012

Contact:
- Contact Email: Not reported
- Contact Mail Address: Not reported
- Contact City/State/Zip: Longview, TX
- Contact Mail Country: USA
- Contact Type 1: Emergency Contact
- Contact Name: David Tadlock
- Title: MANAGER
- Modification Date: 2/24/2012

- Contact Email: Not reported
- Contact Mail Address: Not reported
- Contact City/State/Zip: Longview, TX
- Contact Mail Country: USA
- Contact Type 1: Emergency Contact
- Contact Name: David Tadlock
- Title: MANAGER
- Modification Date: 2/24/2012

Contact:
- Contact Email: Not reported
- Contact Mail Address: Not reported
- Contact City/State/Zip: Not reported
- Contact Mail Country: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CLEAR LAKE 1H (Continued) **S111054862**

Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	2/24/2012
Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	2/24/2012

Chemical Inventory:

Facility Id:	FATR20117R48XG03QTJN
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20117R48XG03WTL0
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R48XG03XTL0
Chemical Inventory Record Id:	CVTR20117R48XG03WTL0
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	2/24/2012
Facility Id:	FATR20117R48XG03QTJN
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20117R48XG03YTNA
CAS Number:	107-21-1

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CLEAR LAKE 1H (Continued) **S111054862**

Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R48XG03ZTNS
Chemical Inventory Record Id:	CVTR20117R48XG03YTNA
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20117R48XG03QTJN
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20117R48XG040TP8
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CLEAR LAKE 1H (Continued) **S111054862**

Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20117R48XG041TPP
Chemical Inventory Record Id: CVTR20117R48XG040TP8
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 2/24/2012

Facility Id: FATR20117R48XG03QTJN
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR20117R48XG042TQ5
CAS Number: 64742-47-8
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 2/24/2012
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2011
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20117R48XG043TQL
Chemical Inventory Record Id: CVTR20117R48XG042TQ5
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 2/24/2012

Notes: Not reported
Validation: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

13 CADDO LEVEE BOARD D SWD | **LA UIC** | **S116602088** | **N/A**

, LA

UIC:

Name:	CADDO LEVEE BOARD D SWD
Address:	Not reported
City,State,Zip:	LA
Location:	Not reported
Org Id:	6456
Org Oper Name:	R. A. WHITTINGTON
Field Id:	2152
Field Name:	CADDO PINE ISLAND
Well Class:	II
Well Class Type Code Description:	ORPHANED INJECTION AND MINING
API Num:	17017883470000
Wells Serial Num:	972680
Well Num:	001
Section:	017
Township:	20N
Well Range:	16W
Parish Code:	09
Well Status Code:	30
Well Status Code Description:	PLUGGED AND ABANDONED
Well Status Date:	08/25/1997
Address1:	Not reported
Address2:	Not reported
Address2:	Not reported
Permit Date:	01/24/1968
Effective Date:	08/01/1997
Meridian:	W
Field District Name:	Shreveport
Field Area Code:	Onshore
Product Type Code:	00
Product Type Code Description:	NO PRODUCT SPECIFIED
Measured Depth:	1000
Longitude Degrees:	Not reported
Longitude Minutes:	Not reported
Longitude Seconds:	Not reported
Latitude Degrees:	Not reported
Latitude Minutes:	Not reported
Latitude Seconds:	Not reported
G UTMX:	Not reported
G UTMY:	Not reported
G LATY:	32.7197317
G LONGX:	-94.035224
Legend:	3000
Hyperlink:	http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=972680
Doc Access:	http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=972680
Upper Perf:	950
Lower Perf:	960

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
14	**BENTON LAKE** **LAT 32.7193862 LONG 94.2367898** **KARNACK, TX 75661**	**TX TIER 2**	**S111054855** **N/A**

TIER 2:

Facility Id/Name:	FATR20127R47TA03ATC0/BENTON LAKE
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/10/2013
Date Tier 2 Signed:	02/19/2013
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7193862
Longitude:	94.2367898
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20117R47TA03ATC0/BENTON LAKE
Reporting Year:	2011
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/16/2012
Date Tier 2 Signed:	02/21/2012
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7193862
Longitude:	94.2367898
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BENTON LAKE (Continued) **S111054855**

Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported
Facility Id/Name:	FATR20107R47TA03ATC0/BENTON LAKE
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	02/21/2011
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7193862
Longitude:	94.2367898
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/21/2011
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/21/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Longview, TX
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	David Tadlock
Title:	MANAGER
Modification Date:	4/3/2011

Contact:

Contact Email:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BENTON LAKE (Continued) **S111054855**

Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	4/3/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	P.O. BOX 1714
Contact City/State/Zip:	MIDLAND, TX 79702-1714
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	WAGNER & BROWN
Title:	Not reported
Modification Date:	4/3/2011

Chemical Inventory:

Facility Id:	FATR20107R47TA03ATC0
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20107R47TA03GTDD
CAS Number:	8002-05-9
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	4/2/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R47TA03HTDV
Chemical Inventory Record Id:	CVTR20107R47TA03GTDD
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	4/2/2011

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BENTON LAKE (Continued) **S111054855**

Facility Id:	FATR20107R47TA03ATC0
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20107R47TB03JTFP
CAS Number:	107-21-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	4/2/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R47TB03KTG5
Chemical Inventory Record Id:	CVTR20107R47TB03JTFP
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	4/2/2011

Facility Id:	FATR20107R47TA03ATC0
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20107R47TB03LTGL
CAS Number:	67-56-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	4/2/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BENTON LAKE (Continued) **S111054855**

Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20107R47TB03MTH2
Chemical Inventory Record Id: CVTR20107R47TB03LTGL
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 4/2/2011

Facility Id: FATR20107R47TA03ATC0
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR20107R47TB03NTHH
CAS Number: 64742-47-8
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 4/2/2011
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20107R47TB03PTHZ
Chemical Inventory Record Id: CVTR20107R47TB03NTHH
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 4/2/2011

Notes: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BENTON LAKE (Continued) **S111054855**

Validation: Not reported

Facility Info:
Id: 21111
Id Type: NAICS
Description: Oil and Gas Extraction
Last Modified: 2/21/2011
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/21/2011

Contact:
Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BENTON LAKE (Continued) **S111054855**

Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	3/8/2013
Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	3/8/2013

Chemical Inventory:

Facility Id:	FATR20127R47TA03ATC0
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20127R47TA03GTDD
CAS Number:	8002-05-9
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/7/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R47TA03HTDV
Chemical Inventory Record Id:	CVTR20127R47TA03GTDD
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/7/2013
Facility Id:	FATR20127R47TA03ATC0
Chemical Name:	GLYCOL

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BENTON LAKE (Continued) **S111054855**

Chemical Inv Record Id:	CVTR20127R47TB03JTFP
CAS Number:	107-21-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/7/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R47TB03KTG5
Chemical Inventory Record Id:	CVTR20127R47TB03JTFP
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/7/2013

Facility Id:	FATR20127R47TA03ATC0
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20127R47TB03LTGL
CAS Number:	67-56-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/7/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BENTON LAKE (Continued) **S111054855**

Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20127R47TB03MTH2
Chemical Inventory Record Id: CVTR20127R47TB03LTGL
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/7/2013

Facility Id: FATR20127R47TA03ATC0
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR20127R47TB03NTHH
CAS Number: 64742-47-8
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/7/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20127R47TB03PTHZ
Chemical Inventory Record Id: CVTR20127R47TB03NTHH
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/7/2013

Notes: Not reported
Validation: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BENTON LAKE (Continued) **S111054855**

Facility Info:
- Id: 1311
- Id Type: SIC
- Description: CRUDE PETROLEUM & NATURAL GAS
- Last Modified: 2/21/2011
- Id: 21111
- Id Type: NAICS
- Description: Oil and Gas Extraction
- Last Modified: 2/21/2011

Contact:
- Contact Email: Not reported
- Contact Mail Address: 4601 McCann Rd.
- Contact City/State/Zip: Longview, TX 75605
- Contact Mail Country: USA
- Contact Type 1: Owner / Operator
- Contact Name: Chinn Exploration Company
- Title: Not reported
- Modification Date: 2/29/2012

- Contact Email: Not reported
- Contact Mail Address: 4601 McCann Rd.
- Contact City/State/Zip: Longview, TX 75605
- Contact Mail Country: USA
- Contact Type 1: Owner / Operator
- Contact Name: Chinn Exploration Company
- Title: Not reported
- Modification Date: 2/29/2012

Contact:
- Contact Email: Not reported
- Contact Mail Address: Not reported
- Contact City/State/Zip: Longview, TX
- Contact Mail Country: USA
- Contact Type 1: Emergency Contact
- Contact Name: David Tadlock
- Title: MANAGER
- Modification Date: 2/24/2012

- Contact Email: Not reported
- Contact Mail Address: Not reported
- Contact City/State/Zip: Longview, TX
- Contact Mail Country: USA
- Contact Type 1: Emergency Contact
- Contact Name: David Tadlock
- Title: MANAGER
- Modification Date: 2/24/2012

Contact:
- Contact Email: Not reported
- Contact Mail Address: Not reported
- Contact City/State/Zip: Not reported
- Contact Mail Country: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BENTON LAKE (Continued) **S111054855**

Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	2/24/2012
Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	2/24/2012

Chemical Inventory:

Facility Id:	FATR20117R47TA03ATC0
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20117R47TA03GTDD
CAS Number:	8002-05-9
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R47TA03HTDV
Chemical Inventory Record Id:	CVTR20117R47TA03GTDD
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	2/24/2012
Facility Id:	FATR20117R47TA03ATC0
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20117R47TB03JTFP
CAS Number:	107-21-1

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BENTON LAKE (Continued) **S111054855**

Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R47TB03KTG5
Chemical Inventory Record Id:	CVTR20117R47TB03JTFP
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20117R47TA03ATC0
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20117R47TB03LTGL
CAS Number:	67-56-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BENTON LAKE (Continued) **S111054855**

Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20117R47TB03MTH2
Chemical Inventory Record Id: CVTR20117R47TB03LTGL
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 2/24/2012

Facility Id: FATR20117R47TA03ATC0
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR20117R47TB03NTHH
CAS Number: 64742-47-8
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 2/24/2012
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2011
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20117R47TB03PTHZ
Chemical Inventory Record Id: CVTR20117R47TB03NTHH
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 2/24/2012

Notes: Not reported
Validation: Not reported

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
15	**FLY-N-FISH LODGE** **UNKNOWN** **UNCERTAIN, TX 00000** FINDS: Registry ID: 110041485443 Click Here: Environmental Interest/Information System: AIR MINOR Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.	**FINDS**	**1014838700** **N/A**
15	**OSSF 561 CYPRESS DRIVE TRACT ONE** **561 CYPRESS DR** **KARNACK, TX 75661**	**TX CENTRAL REGISTRY**	**S124074843** **N/A**
15	**OSSF 596 CYPRESS DR** **596 CYPRESS DR** **KARNACK, TX 75661**	**TX CENTRAL REGISTRY**	**S124132599** **N/A**
15	**OSSF 635 AND 657 CYPRESS DRIVE** **635 AND 657 CYPRESS DRIVE** **UNCERTAIN, TX 75661**	**TX CENTRAL REGISTRY**	**S123969499** **N/A**
15	**OSSF 707 CYPRESS DRIVE** **707 CYPRESS DR** **KARNACK, TX 75661**	**TX CENTRAL REGISTRY**	**S124105523** **N/A**
15	**OSSF 764 CYPRESS DR** **764 CYPRESS DR** **KARNACK, TX 75661**	**TX CENTRAL REGISTRY**	**S124086753** **N/A**

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
15	**OSSF 776 CYPRESS DR** **776 CYPRESS DR** **KARNACK, TX 75661**	**TX CENTRAL REGISTRY**	**S124185912** **N/A**
15	**OSSF 926 CYPRESS DR** **926 CYPRESS DR** **KARNACK, TX 75661**	**TX CENTRAL REGISTRY**	**S124180301** **N/A**
15	**OSSF 115 S MOSSY BRAKE** **115 S MOSSY BRAKE RD** **KARNACK, TX 75661**	**TX CENTRAL REGISTRY**	**S124065173** **N/A**
16	**LITTLETON LAKE # 1 H** **LAT 32.714639 LONG 94.221583** **KARNACK, TX 75670**	**TX TIER 2**	**S108876278** **N/A**

TIER 2:

Facility Id/Name:	FATR20114XTGBT02DPGP/LITTLETON LAKE # 1 H
Reporting Year:	2011
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/16/2012
Date Tier 2 Signed:	02/21/2012
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.714639
Longitude:	94.221583
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported
Facility Id/Name:	FATR20104XTGBT02DPGP/LITTLETON LAKE # 1 H
Reporting Year:	2010
Facility Country:	USA

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S108876278**

Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	02/21/2011
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.714639
Longitude:	94.221583
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20084XTGBT02DPGP/LITTLETON LAKE # 1 H
Reporting Year:	2008
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/30/2009
Date Tier 2 Signed:	2/03/2009
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	True
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.714639
Longitude:	94.221583
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20064XTGBT02DPGP/LITTLETON LAKE # 1 H
Reporting Year:	2006

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S108876278**

Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	10/10/2007
Date Tier 2 Signed:	2/08/2007
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Seleta M. Davis
Latitude:	32.714639
Longitude:	94.221583
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported

Validation: This facility passed all validation checks.

Facility Info:

Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/8/2007
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/3/2009

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Longview, TX
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	David Tadlock
Title:	MANAGER
Modification Date:	4/3/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	P.O. BOX 1714

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S108876278**

Contact City/State/Zip:	MIDLAND, TX 79702-1714
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	WAGNER & BROWN
Title:	Not reported
Modification Date:	4/3/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	4/3/2011

Chemical Inventory:

Facility Id:	FATR20104XTGBT02DPGP
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20104XTGBT02KPKW
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20104XTGBT02LPLT
Chemical Inventory Record Id:	CVTR20104XTGBT02KPKW
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/9/2011

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S108876278**

Facility Id:	FATR20104XTGBT02DPGP
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20104XTGBT02MPPK
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20104XTGBT02NPQG
Chemical Inventory Record Id:	CVTR20104XTGBT02MPPK
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011

Facility Id:	FATR20104XTGBT02DPGP
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20104XTGBT02PPRE
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S108876278**

Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20104XTGBU02QPSS
Chemical Inventory Record Id:	CVTR20104XTGBT02PPRE
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011

Facility Id:	FATR20104XTGBT02DPGP
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20104XTGBU02TPVJ
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20104XTGBU02UPWF
Chemical Inventory Record Id:	CVTR20104XTGBU02TPVJ
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011

Notes: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S108876278**

Validation: Not reported

Notes: Not reported
Validation: Not reported

Facility Info:
Id: 21111
Id Type: NAICS
Description: Oil and Gas Extraction
Last Modified: 2/3/2009
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/8/2007

Contact:
Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S108876278**

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	2/24/2012

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	2/24/2012

Chemical Inventory:

Facility Id:	FATR20114XTGBT02DPGP
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20114XTGBT02KPKW
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20114XTGBT02LPLT
Chemical Inventory Record Id:	CVTR20114XTGBT02KPKW
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	2/24/2012

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S108876278**

Facility Id:	FATR20114XTGBT02DPGP
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20114XTGBT02MPPK
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20114XTGBT02NPQG
Chemical Inventory Record Id:	CVTR20114XTGBT02MPPK
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20114XTGBT02DPGP
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20114XTGBT02PPRE
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S108876278**

Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20114XTGBU02QPSS
Chemical Inventory Record Id:	CVTR20114XTGBT02PPRE
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20114XTGBT02DPGP
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20114XTGBU02TPVJ
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20114XTGBU02UPWF
Chemical Inventory Record Id:	CVTR20114XTGBU02TPVJ
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Notes: Not reported

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S108876278**

Validation: Not reported

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16 **LITTLETON LAKE # 1 H** **TX TIER 2** **S110401285**
LAT 32.714639 LONG 94.221583 **N/A**
KARNACK, TX 75670

TIER 2:

Facility Id/Name:	FATR20124XTGBT02DPGP/LITTLETON LAKE # 1 H
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/8/2013
Date Tier 2 Signed:	02/19/2013
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.714639
Longitude:	94.221583
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20094XTGBT02DPGP/LITTLETON LAKE # 1 H
Reporting Year:	2009
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/24/2010
Date Tier 2 Signed:	2/23/2010
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.714639
Longitude:	94.221583
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S110401285**

Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/3/2009
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/8/2007

Contact:

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company
Title:	Not reported
Modification Date:	3/9/2013

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company
Title:	Not reported
Modification Date:	3/9/2013

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Longview, TX
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	David Tadlock
Title:	MANAGER
Modification Date:	3/8/2013

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Longview, TX
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	David Tadlock
Title:	MANAGER
Modification Date:	3/8/2013

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S110401285**

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	3/8/2013

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	3/8/2013

Chemical Inventory:

Facility Id:	FATR20124XTGBT02DPGP
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20124XTGBT02KPKW
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20124XTGBT02LPLT
Chemical Inventory Record Id:	CVTR20124XTGBT02KPKW
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/8/2013

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S110401285**

Facility Id:	FATR20124XTGBT02DPGP
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20124XTGBT02MPPK
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20124XTGBT02NPQG
Chemical Inventory Record Id:	CVTR20124XTGBT02MPPK
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013

Facility Id:	FATR20124XTGBT02DPGP
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20124XTGBT02PPRE
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S110401285**

Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20124XTGBU02QPSS
Chemical Inventory Record Id: CVTR20124XTGBT02PPRE
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/8/2013

Facility Id: FATR20124XTGBT02DPGP
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR20124XTGBU02TPVJ
CAS Number: 64742-47-8
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/8/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20124XTGBU02UPWF
Chemical Inventory Record Id: CVTR20124XTGBU02TPVJ
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/8/2013

Notes: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S110401285**

Validation: Not reported

Facility Info:
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/8/2007
Id: 21111
Id Type: NAICS
Description: Oil and Gas Extraction
Last Modified: 2/3/2009

Contact:
Contact Email: Not reported
Contact Mail Address: P.O. BOX 6531
Contact City/State/Zip: LONGVIEW, TX 75608-6531
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: C W RESOURCES, INC.
Title: Not reported
Modification Date: 3/14/2010

Contact:
Contact Email: Not reported
Contact Mail Address: P.O. BOX 6531
Contact City/State/Zip: LONGVIEW, TX 75608-6531
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: ROBERT WESTERMAN
Title: Not reported
Modification Date: 3/14/2010

Contact:
Contact Email: Not reported
Contact Mail Address: P.O. BOX 6531
Contact City/State/Zip: LONGVIEW, TX 75608-6531
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: PAUL KAPASKO
Title: OPERATIONS MANAGER
Modification Date: 3/14/2010

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: KENNETH Doan
Title: Production Foreman
Modification Date: 3/14/2010

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S110401285**

Contact:
Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	JERRY HAMILTON
Title:	MANAGER
Modification Date:	3/1/2010

Contact:
Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company
Title:	Not reported
Modification Date:	3/14/2010

Chemical Inventory:
Facility Id:	FATR20094XTGBT02DPGP
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20094XTGBT02KPKW
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/1/2010
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

Chemical Inventory Location:
Record Key:	CLTR20094XTGBT02LPLT
Chemical Inventory Record Id:	CVTR20094XTGBT02KPKW
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S110401285**

Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT THE FACILITY
Last Modified: 3/1/2010

Facility Id: FATR20094XTGBT02DPGP
Chemical Name: GLYCOL
Chemical Inv Record Id: CVTR20094XTGBT02MPPK
CAS Number: 107-21-1
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/1/2010
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2009
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20094XTGBT02NPQG
Chemical Inventory Record Id: CVTR20094XTGBT02MPPK
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/1/2010

Facility Id: FATR20094XTGBT02DPGP
Chemical Name: METHANOL
Chemical Inv Record Id: CVTR20094XTGBT02PPRE
CAS Number: 67-56-1
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 3/1/2010
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S110401285**

Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20094XTGBU02QPSS
Chemical Inventory Record Id:	CVTR20094XTGBT02PPRE
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/1/2010

Facility Id:	FATR20094XTGBT02DPGP
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20094XTGBU02TPVJ
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/1/2010
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20094XTGBU02UPWF
Chemical Inventory Record Id:	CVTR20094XTGBU02TPVJ
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LITTLETON LAKE # 1 H (Continued) **S110401285**

Last Modified: 3/1/2010

Notes: Not reported

Validation: This facility passed all validation checks.

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17 **O.G. MURPHY HEIRS 1H** **TX TIER 2** **S111054864**
LAT 32.7114142 LONG 94.1917707 **N/A**
KARNACK, TX 75670

TIER 2:

Facility Id/Name:	FATR20127R4913044YNC/O.G. MURPHY HEIRS 1H
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/8/2013
Date Tier 2 Signed:	02/19/2013
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7114142
Longitude:	94.1917707
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20117R4913044YNC/O.G. MURPHY HEIRS 1H
Reporting Year:	2011
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/16/2012
Date Tier 2 Signed:	02/21/2012
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7114142

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

O.G. MURPHY HEIRS 1H (Continued) **S111054864**

Longitude:	94.1917707
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20107R4913044YNC/O.G. MURPHY HEIRS 1H
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	02/21/2011
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7114142
Longitude:	94.1917707
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/21/2011
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/21/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

O.G. MURPHY HEIRS 1H (Continued) **S111054864**

Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

O.G. MURPHY HEIRS 1H (Continued) **S111054864**

Chemical Inventory:

Facility Id:	FATR20127R4913044YNC
Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20127R491304AYPQ
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R491304BYPQ
Chemical Inventory Record Id:	CVTR20127R491304AYPQ
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/8/2013

Facility Id:	FATR20127R4913044YNC
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20127R491404CYS0
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

O.G. MURPHY HEIRS 1H (Continued) **S111054864**

Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20127R491404DYSG
Chemical Inventory Record Id: CVTR20127R491404CYS0
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/8/2013

Facility Id: FATR20127R4913044YNC
Chemical Name: METHANOL
Chemical Inv Record Id: CVTR20127R491404EYSY
CAS Number: 67-56-1
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 3/8/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20127R491404FYTD
Chemical Inventory Record Id: CVTR20127R491404EYSY
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/8/2013

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

O.G. MURPHY HEIRS 1H (Continued) **S111054864**

Facility Id:	FATR20127R4913044YNC
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20127R491404GYTV
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R491404HYUS
Chemical Inventory Record Id:	CVTR20127R491404GYTV
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013

Notes: Not reported
Validation: Not reported

Facility Info:

Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/21/2011
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/21/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

O.G. MURPHY HEIRS 1H (Continued) **S111054864**

Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Chemical Inventory:
Facility Id: FATR20117R4913044YNC

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

O.G. MURPHY HEIRS 1H (Continued) **S111054864**

Chemical Name:	CONDENSATE PL
Chemical Inv Record Id:	CVTR20117R491304AYPQ
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R491304BYPQ
Chemical Inventory Record Id:	CVTR20117R491304AYPQ
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20117R4913044YNC
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20117R491404CYS0
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

O.G. MURPHY HEIRS 1H (Continued) **S111054864**

Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R491404DYSG
Chemical Inventory Record Id:	CVTR20117R491404CYS0
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20117R4913044YNC
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20117R491404EYSY
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R491404FYTD
Chemical Inventory Record Id:	CVTR20117R491404EYSY
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20117R4913044YNC
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20117R491404GYTV

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

O.G. MURPHY HEIRS 1H (Continued) **S111054864**

CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R491404HYUS
Chemical Inventory Record Id:	CVTR20117R491404GYTV
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Notes: Not reported
Validation: Not reported

Facility Info:

Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/21/2011
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/21/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

O.G. MURPHY HEIRS 1H (Continued) **S111054864**

Modification Date: 4/3/2011

Contact:
Contact Email: Not reported
Contact Mail Address: P.O. BOX 1714
Contact City/State/Zip: MIDLAND, TX 79702-1714
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: WAGNER & BROWN
Title: Not reported
Modification Date: 4/3/2011

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 4/3/2011

Chemical Inventory:
Facility Id: FATR20107R4913044YNC
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR20107R491304AYPQ
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/9/2011
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20107R491304BYPQ
Chemical Inventory Record Id: CVTR20107R491304AYPQ
Amt Of Sub Stored Or Transported: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

O.G. MURPHY HEIRS 1H (Continued) **S111054864**

Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/9/2011
Facility Id:	FATR20107R4913044YNC
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20107R491404CYS0
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R491404DYSG
Chemical Inventory Record Id:	CVTR20107R491404CYS0
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011
Facility Id:	FATR20107R4913044YNC
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20107R491404EYSY
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

O.G. MURPHY HEIRS 1H (Continued) **S111054864**

Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R491404FYTD
Chemical Inventory Record Id:	CVTR20107R491404EYSY
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011

Facility Id:	FATR20107R4913044YNC
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20107R491404GYTV
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R491404HYUS
Chemical Inventory Record Id:	CVTR20107R491404GYTV
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

O.G. MURPHY HEIRS 1H (Continued) **S111054864**

Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/9/2011

Notes: Not reported
Validation: Not reported

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18 **TAYLOR 1** **TX TIER 2** **S111054872**
LAT32.7097123 LONG 94.2483321 **N/A**
KARNACK, TX 75670

TIER 2:

Facility Id/Name: FATR20127R49WZ04YTEP/TAYLOR 1
Reporting Year: 2012
Facility Country: USA
Facility Department: Not reported
Facility Date Modified: 5/8/2013
Date Tier 2 Signed: 02/19/2013
Mailing Address: Not reported
Mailing City/State/Country: Not reported
Dikes/Other Safeguard Meas Emp: Not reported
All Chemicals Same As Last Year: Not reported
State Fees Total: Not reported
Number Of Employess On Site: Not reported
Site Map: Not reported
Fire District: Not reported
Submitted By: Phillip White
Latitude: 32.7097123
Longitude: 94.2483321
Lat/Long Location Desc: TB-Tank Battery
Lat/Long Method: G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted: Not reported
Number Of Emp. Required: Not reported
Fail Valid: Not reported
Site Coordinate Abbr Submitted: Not reported
Mail Address: Not reported
Mail City: Not reported
Mail State Req.: Not reported
Fire District: Not reported
Additional Mail Addr: Not reported

Facility Id/Name: FATR20117R49WZ04YTEP/TAYLOR 1
Reporting Year: 2011
Facility Country: USA
Facility Department: Not reported
Facility Date Modified: 5/16/2012
Date Tier 2 Signed: 02/21/2012
Mailing Address: Not reported
Mailing City/State/Country: Not reported
Dikes/Other Safeguard Meas Emp: Not reported
All Chemicals Same As Last Year: Not reported
State Fees Total: Not reported
Number Of Employess On Site: Not reported
Site Map: Not reported
Fire District: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TAYLOR 1 (Continued) **S111054872**

Submitted By:	Phillip White
Latitude:	32.7097123
Longitude:	94.2483321
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20107R49WZ04YTEP/TAYLOR 1
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	02/21/2011
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.7097123
Longitude:	94.2483321
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/21/2011
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/21/2011

Contact:

Contact Email:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TAYLOR 1 (Continued) **S111054872**

Contact Mail Address: P.O. BOX 1714
Contact City/State/Zip: MIDLAND, TX 79702-1714
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: WAGNER & BROWN
Title: Not reported
Modification Date: 4/3/2011

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 4/3/2011

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 4/3/2011

Chemical Inventory:
Facility Id: FATR20107R49WZ04YTEP
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR20107R49WZ054TFL
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/9/2011
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TAYLOR 1 (Continued) **S111054872**

Chemical Inventory Location:

Record Key:	CLTR20107R49WZ055TG1
Chemical Inventory Record Id:	CVTR20107R49WZ054TFL
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/9/2011
Facility Id:	FATR20107R49WZ04YTEP
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20107R49WZ056TJB
CAS Number:	107-21-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R49WZ057TJB
Chemical Inventory Record Id:	CVTR20107R49WZ056TJB
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011
Facility Id:	FATR20107R49WZ04YTEP
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20107R49WZ058TK9
CAS Number:	67-56-1
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TAYLOR 1 (Continued) **S111054872**

Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R49WZ059TKQ
Chemical Inventory Record Id:	CVTR20107R49WZ058TK9
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011

Facility Id:	FATR20107R49WZ04YTEP
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20107R49WZ05ATL6
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TAYLOR 1 (Continued) **S111054872**

Record Key: CLTR20107R49WZ05BTLM
Chemical Inventory Record Id: CVTR20107R49WZ05ATL6
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/9/2011

Notes: Not reported
Validation: Not reported

Facility Info:
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/21/2011
Id: 21111
Id Type: NAICS
Description: Oil and Gas Extraction
Last Modified: 2/21/2011

Contact:
Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TAYLOR 1 (Continued) **S111054872**

Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Chemical Inventory:
Facility Id: FATR20127R49WZ04YTEP
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR20127R49WZ054TFL
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/8/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20127R49WZ055TG1

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TAYLOR 1 (Continued) **S111054872**

Chemical Inventory Record Id: CVTR20127R49WZ054TFL
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT THE FACILITY
Last Modified: 3/8/2013

Facility Id: FATR20127R49WZ04YTEP
Chemical Name: GLYCOL
Chemical Inv Record Id: CVTR20127R49WZ056TJB
CAS Number: 107-21-1
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/8/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20127R49WZ057TJB
Chemical Inventory Record Id: CVTR20127R49WZ056TJB
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/8/2013

Facility Id: FATR20127R49WZ04YTEP
Chemical Name: METHANOL
Chemical Inv Record Id: CVTR20127R49WZ058TK9
CAS Number: 67-56-1
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TAYLOR 1 (Continued) **S111054872**

Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R49WZ059TKQ
Chemical Inventory Record Id:	CVTR20127R49WZ058TK9
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013

Facility Id:	FATR20127R49WZ04YTEP
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20127R49WZ05ATL6
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R49WZ05BTLM
Chemical Inventory Record Id:	CVTR20127R49WZ05ATL6
Amt Of Sub Stored Or Transported:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TAYLOR 1 (Continued) **S111054872**

Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/8/2013

Notes: Not reported
Validation: Not reported

Facility Info:
Id: 21111
Id Type: NAICS
Description: Oil and Gas Extraction
Last Modified: 2/21/2011
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/21/2011

Contact:
Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TAYLOR 1 (Continued) **S111054872**

Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Chemical Inventory:
Facility Id: FATR20117R49WZ04YTEP
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR20117R49WZ054TFL
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 2/24/2012
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2011
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20117R49WZ055TG1
Chemical Inventory Record Id: CVTR20117R49WZ054TFL
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TAYLOR 1 (Continued) **S111054872**

Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT THE FACILITY
Last Modified: 2/24/2012

Facility Id: FATR20117R49WZ04YTEP
Chemical Name: GLYCOL
Chemical Inv Record Id: CVTR20117R49WZ056TJB
CAS Number: 107-21-1
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 2/24/2012
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2011
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20117R49WZ057TJB
Chemical Inventory Record Id: CVTR20117R49WZ056TJB
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 2/24/2012

Facility Id: FATR20117R49WZ04YTEP
Chemical Name: METHANOL
Chemical Inv Record Id: CVTR20117R49WZ058TK9
CAS Number: 67-56-1
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 2/24/2012
Days On Site: 365
Fire Hazard: T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TAYLOR 1 (Continued) **S111054872**

Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R49WZ059TKQ
Chemical Inventory Record Id:	CVTR20117R49WZ058TK9
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20117R49WZ04YTEP
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20117R49WZ05ATL6
CAS Number:	64742-47-8
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R49WZ05BTLM
Chemical Inventory Record Id:	CVTR20117R49WZ05ATL6
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
	TAYLOR 1 (Continued)		**S111054872**
	Number Code/Storage Temperature: 4 Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY Last Modified: 2/24/2012 Notes: Not reported Validation: Not reported		
19	**OSSF 4457 BROADWAY** **4457 BROADWAY ST** **KARNACK, TX 75661**	**TX CENTRAL REGISTRY**	**S124070388** **N/A**
20	**OSSF 5447 EAST CYPRESS DRIVE** **5447 E CYPRESS DR** **KARNACK, TX 75661**	**TX CENTRAL REGISTRY**	**S123976501** **N/A**
20	**OSSF 5375 EAST CYPRESS DRIVE** **5375 E CYPRESS DR** **KARNACK, TX 75661**	**TX CENTRAL REGISTRY**	**S124164061** **N/A**
20	**OSSF 5235 CYPRESS DRIVE EAST** **5235 E CYPRESS DR** **KARNACK, TX 75661**	**TX CENTRAL REGISTRY**	**S123967098** **N/A**
20	**OSSF 5211 E CYPRESS DRIVE** **5211 E CYPRESS DR** **KARNACK, TX 75661**	**TX CENTRAL REGISTRY**	**S124167461** **N/A**

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
20	**MOTOR SUPPLY WHSE** **1000 BROADWAY ST** **KARNACK, TX 75661**	**TX CENTRAL REGISTRY**	**S126552668** **N/A**

20	**MOTOR SUPPLY WHSE** **1000 BROADWAY ST** **KARNACK, TX 75661**	**TX UST**	**U001289367** **N/A**

UST:

Name:	MOTOR SUPPLY WHSE
Address:	1000 BROADWAY ST
City,State,Zip:	KARNACK, TX 756619745
AI Number:	59823
Facility Type:	OTHER
Facility Begin Date:	09/16/1991
Facility Status:	INACTIVE
Additional ID:	849424542002089
Facility Exempt Status:	N
Records Off-Site:	No
UST Financial Assurance Required:	No
Number Of Active UST:	0
Site Location Description:	Not reported
Site Location (Nearest City Name):	Not reported
Site Location (County Name):	HARRISON
Site Location (Tceq Region):	5
Site Location (Location Zip):	75661
Contact Name/Title:	,
Contact Organization Name:	MOTOR SUPPLY WHSE
Contact Mailing Address1:	Not reported
Contact Mailing Address2:	Not reported
Contact Mailing City/State/Zip:	Not reported
Contact Telephone:	9037893367
Facility Contact Address Deliverable:	Not reported
Contact Fax Number:	Not reported
Contact Email Address:	Not reported
Signature Date On Earliest Reg Form:	08/27/1991
Signature Name/Title On Earliest Reg Form:	KEN PETERSEN,PRES
Application Received Date On Earliest Reg Form:	09/11/1991
Signature Role On Earliest Reg Form:	Not reported
Signature Company On Earliest Reg Form:	Not reported
Enforcement Action:	Not reported
Facility Not Inspectable:	No

Owner:

Owner CN:	CN601034713
Owner Last Name:	MOTOR SUPPLY WHSE
Owner First Name:	Not reported
Owner Middle Name:	Not reported
Owner Type:	OR
Contact Mailing Address (Delivery):	Not reported
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City:	Not reported
Contact Mailing State:	Not reported
Contact Mailing Zip:	Not reported
Contact Mailing Zip5:	Not reported
Contact Phone Number/Ext:	/
Contact Fax Country Code:	Not reported
Contact Fax Number/Ext:	/

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

MOTOR SUPPLY WHSE (Continued) **U001289367**

Contact Email Address:	Not reported
Contact Address Deliverable:	Not reported
Princ ID:	859424532002089
Additional ID:	849424542002089
AI Number:	59823
Owner Effective Begin Date:	09/16/1991
State Tax ID:	17511524609
Contact Role:	Not reported
Contact Name/Title:	/
Contact Organization Name:	Not reported

Tank:

Install Date:	03/01/1965
Tank Registration Date:	09/11/1991
Number of Compartments:	1
Tank Capacity:	9999
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	141026
Facility ID:	90225
Ai Number:	59823
Tank Id:	2
Tank Status (Current):	PERM FILLED IN PLACE
Tank Status Date:	03/31/1967
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	N
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	N
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

MOTOR SUPPLY WHSE (Continued) **U001289367**

TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	08/13/1991

Compartment Records:

Tank ID:	2
Tank Capacity:	Not reported
UST Comprt ID:	148365
UST ID:	141026
AI Number:	59823
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

MOTOR SUPPLY WHSE (Continued) **U001289367**

Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported
Install Date:	03/01/1965
Tank Registration Date:	09/11/1991
Number of Compartments:	1
Tank Capacity:	9999
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	141027
Facility ID:	90225
Ai Number:	59823
Tank Id:	1
Tank Status (Current):	PERM FILLED IN PLACE
Tank Status Date:	03/31/1967
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	N
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	N
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

MOTOR SUPPLY WHSE (Continued) **U001289367**

PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	08/13/1991

Compartment Records:

Tank ID:	1
Tank Capacity:	Not reported
UST Comprt ID:	148366
UST ID:	141027
AI Number:	59823
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

Facility Billing Contacts:

Contact Organization Name:	MOTOR SUPPLY WHSE
Contact Mailing Address (Delivery):	PO BOX 110

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

MOTOR SUPPLY WHSE (Continued) **U001289367**

Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City/State/Zip:	KARNACK, TX 75661 0110
Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Y
Facility ID:	90225
Additional ID:	849424542002089
Princ ID:	859424532002089
AI Number:	59823
Facility Name:	MOTOR SUPPLY WHSE
AR Number:	Not reported
AR UST Number Suffix:	Not reported
AR AST Number Suffix:	Not reported
Contact Name/Title:	KEN PETERSEN/

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20 **MOTOR SUPPLY WAREHOUSE** **TX LPST** **S116695548**
1000 BROADWAY ST **N/A**
KARNACK, TX 75661

LPST:

Name:	MOTOR SUPPLY WAREHOUSE
Address:	1000 BROADWAY ST
City,State,Zip:	KARNACK, TX 75661
Facility ID:	0059823
LPST Id:	101447
Facility Location:	1000 BROADWAY
TCEQ Region# and City:	REGION 05 - TYLER
Region City:	TYLER
Discovered Date:	01/14/1992
Entered Date:	01/23/1992
Reported Date:	12/30/1991
Closure Date:	12/11/1991
Priority:	5 - MINOR SOIL CONTAMINATION - DOES NOT REQUIRE A RAP
Program:	2 - REGION
CA Status:	6A - FINAL CONCURRENCE ISSUED
Priority Description:	MINOR SOIL CONTAMINATION - DOES NOT REQUIRE A RAP
Status:	**FINAL CONCURRENCE ISSUED, CASE CLOSED**
Coordinators Primary:	2
Coordinators RPR:	HELEN WELCH
Responsible Party Name:	Not reported
Responsible Party Contact:	KEN PETERSON
Responsible Party Address:	PO BOX 110
Responsible Party City,St,Zip:	KARNACK, TX 75661
Responsible Party Telephone:	903/789-3367
Reported Date:	12/30/1991
Case Start Date:	12/11/1991

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
20	**CADDO LAKE WSC** **137 CYPRESS DR** **KARNACK, TX 75661**	**FINDS**	**1011334491** **N/A**

FINDS:
Registry ID: 110034535518

Click Here:

Environmental Interest/Information System:
Texas Commission on Environmental Quality - Agency Central Registry (TX-TCEQ ACR) is a computer application that allows the Texas Commission on Environmental Quality (TCEQ) to use a single, centralized area to record common information, such as the company names, addresses, and telephone numbers of those the TCEQ regulates. It also contains additional IDs (permits, registrations, authorizations, etc) and their status.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

20	**OSSF 144 CYPRESS DR** **144 CYPRESS DR** **KARNACK, TX 75661**	**TX CENTRAL REGISTRY**	**S124198309** **N/A**

21	**NFR ENERGY PILOT WOOD BEAIRD KARNACK FACILITIES -** **JEFFERSON, TX 75657**	**TX TIER 2**	**S113699215** **N/A**

TIER 2:

Facility Id:	FATR2012E00003295336
Facility Name:	NFR ENERGY PILOT WOOD BEAIRD KARNACK FACILITIES - MARION COUNTY
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/8/2013
Date Tier 2 Signed:	2/21/2013
Mailing Address:	1415 Louisiana St., Suite 1600
Mailing City/State/Country:	Houston, TX USA
Dikes/Other Safeguard Meas Emp:	F
All Chemicals Same As Last Year:	False
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	F
Fire District:	Not reported
Submitted By:	Niki Hecker Envriomental Consultant
Latitude:	32.7074
Longitude:	-94.2002
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Site Coordinate Abbr Submitted:	F
Number Of Emp. Required:	Not reported
Fail Valid:	T
Site Coordinate Abbr Submitted:	F
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

NFR ENERGY PILOT WOOD BEAIRD KARNACK FACILITIES - MARION COU (Continued) **S113699215**

Fire District: Not reported
Additional Mail Addr: Not reported

Facility Info:
Id: 211111
Id Type: NAICS
Description: Not reported
Last Modified: 2/22/2013
Id: 1311
Id Type: SIC
Description: Not reported
Last Modified: 2/22/2013

Contact:
Contact Email: Not reported
Contact Mail Address: 504 Spring Hill Dr., Suite 300
Contact City/State/Zip: Spring, TX 77386
Contact Mail Country: USA
Contact Type 1: Submitter
Contact Name: Niki Hecker
Title: Envriomental Consultant
Modification Date: 2/27/2013

Contact Email: Not reported
Contact Mail Address: 504 Spring Hill Dr., Suite 300
Contact City/State/Zip: Spring, TX 77386
Contact Mail Country: USA
Contact Type 1: Submitter
Contact Name: Niki Hecker
Title: Envriomental Consultant
Modification Date: 2/27/2013

Contact:
Contact Email: Not reported
Contact Mail Address: 1415 Louisiana St., Suite 1600
Contact City/State/Zip: Houston, TX 77002
Contact Mail Country: USA
Contact Type 1: Owner/Operator
Contact Name: NFR Energy
Title: Not reported
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: 1415 Louisiana St., Suite 1600
Contact City/State/Zip: Houston, TX 77002
Contact Mail Country: USA
Contact Type 1: Owner/Operator
Contact Name: NFR Energy
Title: Not reported
Modification Date: 3/8/2013

Contact:
Contact Email: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

NFR ENERGY PILOT WOOD BEAIRD KARNACK FACILITIES - MARION COU (Continued) **S113699215**

Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Randal Olivier
Title: Forman
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Randal Olivier
Title: Forman
Modification Date: 3/8/2013

Chemical Inventory:
Facility Id: FATR2012E00003295336
Chemical Name: PRODUCED HYDROCARBONS
Chemical Inv Record Id: CVTR2012E02040986410
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: F
Last Modified: 3/8/2013
Days On Site: 365
Fire Hazard: T
Gas: T
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: F
Reactive Hazard: F
Solid: F
Trade Secret: F
Contact Label: Not reported
Label Code: TX2012
Trade Secret: F

Notes: Not reported
Validation: Not reported

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
22	**HAGGERTY CREEK NORTH** **KARNACK, TX 75661**	**TX TIER 2**	**S110395470** **N/A**

TIER 2:

Facility Id/Name:	FATR20096C8GKC028TEP/HAGGERTY CREEK NORTH
Reporting Year:	2009
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/24/2010
Date Tier 2 Signed:	3-1-2010
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	True
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Paul Griesedieck, HSE Manager
Latitude:	32.700007
Longitude:	-94.1668
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	211111
Id Type:	NAICS
Description:	Crude Petroleum and Natural Gas Extraction
Last Modified:	2/26/2009
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/26/2009
Id:	Not reported
Id Type:	Dun & Bradstreet
Description:	Not reported
Last Modified:	2/26/2009

Contact:

Contact Email:	Not reported
Contact Mail Address:	1100 Louisiana Suite 2000
Contact City/State/Zip:	Houston, TX 77002
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Forest Oil Corp.
Title:	Not reported
Modification Date:	3/14/2010

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK NORTH (Continued) **S110395470**

Contact:
- Contact Email: Not reported
- Contact Mail Address: 29003 Morton Road
- Contact City/State/Zip: Katy, TX 77493
- Contact Mail Country: USA
- Contact Type 1: Regulatory Point of Contact
- Contact Name: Paul Griesedieck
- Title: EH&S Manager
- Modification Date: 5/10/2007

Contact:
- Contact Email: Not reported
- Contact Mail Address: Not reported
- Contact City/State/Zip: Not reported
- Contact Mail Country: USA
- Contact Type 1: Emergency Contact
- Contact Name: Carl Abshire
- Title: Foreman
- Modification Date: 3/14/2010

Chemical Inventory:
- Facility Id: FATR20096C8GKC028TEP
- Chemical Name: Crude Oil
- Chemical Inv Record Id: CVTR20096C8GR602LUR7
- CAS Number: 8002-05-9
- Chemical Same As Last Year: Not reported
- Acute Health Risks: T
- Average Daily Amount: 100,000 - 999,999 pounds
- Max Daily Amount: 100,000 - 999,999 pounds
- Max Amount In Largest Container: Not reported
- Chronic Health Risks: T
- EHS Substance: Not reported
- Last Modified: 3/5/2010
- Days On Site: 305
- Fire Hazard: T
- Gas: Not reported
- Liquid: T
- Mixture Form: T
- Sudden Release Of Pressure Haz: Not reported
- Pure Form: Not reported
- Reactive Hazard: Not reported
- Solid: Not reported
- Trade Secret: Not reported
- Contact Label: Not reported
- Label Code: TX2009
- Trade Secret: Not reported

Chemical Inventory Location:
- Record Key: CLTR20096C8GSY02PC0B
- Chemical Inventory Record Id: CVTR20096C8GR602LUR7
- Amt Of Sub Stored Or Transported: Not reported
- Amount Units: pounds
- Type Of Storage: Above ground tank
- Number Code/Storage Pressure: 1

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK NORTH (Continued) **S110395470**

Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Tank Battery
Last Modified: 3/5/2010

Facility Id: FATR20096C8GKC028TEP
Chemical Name: Saltwater
Chemical Inv Record Id: CVTR20096C8GRV02ME3U
CAS Number: Not reported
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/5/2010
Days On Site: 305
Fire Hazard: Not reported
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2009
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20096C8GSM02N2BX
Chemical Inventory Record Id: CVTR20096C8GRV02ME3U
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Tank Battery
Last Modified: 3/5/2010

Notes: Not reported

Validation: This facility passed all validation checks.

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22 **HAGGERTY CREEK NORTH** **TX TIER 2** **S109708711**
N/A

KARNACK, TX 75661

TIER 2:
Facility Id/Name: FATR20126C8GKC028TEP/HAGGERTY CREEK NORTH
Reporting Year: 2012
Facility Country: USA
Facility Department: Not reported
Facility Date Modified: 5/10/2013

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK NORTH (Continued) **S109708711**

Date Tier 2 Signed:	2-25-2013
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	True
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Paul Griesedieck, HSE Mgr
Latitude:	32.700007
Longitude:	-94.1668
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20116C8GKC028TEP/HAGGERTY CREEK NORTH
Reporting Year:	2011
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/16/2012
Date Tier 2 Signed:	2-13-2012
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	True
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Paul Griesedieck, HSE Manager
Latitude:	32.700007
Longitude:	-94.1668
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20106C8GKC028TEP/HAGGERTY CREEK NORTH
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK NORTH (Continued) **S109708711**

Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	2-7-2011
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	True
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Paul Griesedieck
Latitude:	32.700007
Longitude:	-94.1668
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20086C8GKC028TEP/HAGGERTY CREEK NORTH
Reporting Year:	2008
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/30/2009
Date Tier 2 Signed:	2-26-2009
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Paul Griesedieck, HSE Mgr
Latitude:	32.700007
Longitude:	-94.1668
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK NORTH (Continued) **S109708711**

Validation: This facility passed all validation checks.

Facility Info:
Id: 211111
Id Type: NAICS
Description: Crude Petroleum and Natural Gas Extraction
Last Modified: 2/26/2009
Id: Not reported
Id Type: Dun & Bradstreet
Description: Not reported
Last Modified: 2/26/2009
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/26/2009

Contact:
Contact Email: PBGriesedieck@forestoil.com
Contact Mail Address: 29003 Morton Road
Contact City/State/Zip: Katy, TX 77493
Contact Mail Country: USA
Contact Type 1: Regulatory Point of Contact
Contact Name: Paul Griesedieck
Title: EH&S Manager
Modification Date: 5/10/2007

Contact Email: PBGriesedieck@forestoil.com
Contact Mail Address: 29003 Morton Road
Contact City/State/Zip: Katy, TX 77493
Contact Mail Country: USA
Contact Type 1: Regulatory Point of Contact
Contact Name: Paul Griesedieck
Title: EH&S Manager
Modification Date: 5/10/2007

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: Carl Abshire
Title: Foreman
Modification Date: 3/9/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: Carl Abshire
Title: Foreman
Modification Date: 3/9/2013

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK NORTH (Continued) **S109708711**

Contact:

Contact Email:	Not reported
Contact Mail Address:	1100 Louisiana Suite 2000
Contact City/State/Zip:	Houston, TX 77002
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Forest Oil Corp.
Title:	Not reported
Modification Date:	3/9/2013

Contact Email:	Not reported
Contact Mail Address:	1100 Louisiana Suite 2000
Contact City/State/Zip:	Houston, TX 77002
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Forest Oil Corp.
Title:	Not reported
Modification Date:	3/9/2013

Chemical Inventory:

Facility Id:	FATR20126C8GKC028TEP
Chemical Name:	Crude Oil
Chemical Inv Record Id:	CVTR20126C8GR602LUR7
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20126C8GSY02PC0B
Chemical Inventory Record Id:	CVTR20126C8GR602LUR7
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	Tank Battery
Last Modified:	3/8/2013

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK NORTH (Continued) **S109708711**

Notes: Not reported
Validation: Not reported

Facility Info:
Id: 211111
Id Type: NAICS
Description: Crude Petroleum and Natural Gas Extraction
Last Modified: 2/26/2009
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/26/2009
Id: Not reported
Id Type: Dun & Bradstreet
Description: Not reported
Last Modified: 2/26/2009

Contact:
Contact Email: PBGriesedieck@forestoil.com
Contact Mail Address: 29003 Morton Road
Contact City/State/Zip: Katy, TX 77493
Contact Mail Country: USA
Contact Type 1: Regulatory Point of Contact
Contact Name: Paul Griesedieck
Title: EH&S Manager
Modification Date: 5/10/2007

Contact Email: PBGriesedieck@forestoil.com
Contact Mail Address: 29003 Morton Road
Contact City/State/Zip: Katy, TX 77493
Contact Mail Country: USA
Contact Type 1: Regulatory Point of Contact
Contact Name: Paul Griesedieck
Title: EH&S Manager
Modification Date: 5/10/2007

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: Carl Abshire
Title: Foreman
Modification Date: 3/2/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: Carl Abshire
Title: Foreman
Modification Date: 3/2/2012

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK NORTH (Continued) **S109708711**

Contact:

Contact Email:	Not reported
Contact Mail Address:	1100 Louisiana Suite 2000
Contact City/State/Zip:	Houston, TX 77002
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Forest Oil Corp.
Title:	Not reported
Modification Date:	3/2/2012

Contact Email:	Not reported
Contact Mail Address:	1100 Louisiana Suite 2000
Contact City/State/Zip:	Houston, TX 77002
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Forest Oil Corp.
Title:	Not reported
Modification Date:	3/2/2012

Chemical Inventory:

Facility Id:	FATR20116C8GKC028TEP
Chemical Name:	Crude Oil
Chemical Inv Record Id:	CVTR20116C8GR602LUR7
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/2/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20116C8GSY02PC0B
Chemical Inventory Record Id:	CVTR20116C8GR602LUR7
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	Tank Battery
Last Modified:	3/2/2012

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK NORTH (Continued) **S109708711**

Notes: Not reported
Validation: Not reported

Facility Info:
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/26/2009
Id: 211111
Id Type: NAICS
Description: Crude Petroleum and Natural Gas Extraction
Last Modified: 2/26/2009
Id: Not reported
Id Type: Dun & Bradstreet
Description: Not reported
Last Modified: 2/26/2009

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: Carl Abshire
Title: Foreman
Modification Date: 4/2/2011

Contact:
Contact Email: Not reported
Contact Mail Address: 1100 Louisiana Suite 2000
Contact City/State/Zip: Houston, TX 77002
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Forest Oil Corp.
Title: Not reported
Modification Date: 4/4/2011

Contact:
Contact Email: PBGriesedieck@forestoil.com
Contact Mail Address: 29003 Morton Road
Contact City/State/Zip: Katy, TX 77493
Contact Mail Country: USA
Contact Type 1: Regulatory Point of Contact
Contact Name: Paul Griesedieck
Title: EH&S Manager
Modification Date: 5/10/2007

Chemical Inventory:
Facility Id: FATR20106C8GKC028TEP
Chemical Name: Crude Oil
Chemical Inv Record Id: CVTR20106C8GR602LUR7
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK NORTH (Continued) **S109708711**

Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/15/2011
Days On Site:	305
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20106C8GSY02PC0B
Chemical Inventory Record Id:	CVTR20106C8GR602LUR7
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	Tank Battery
Last Modified:	3/15/2011

Notes: Not reported
Validation: Not reported

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23 **TNT RAILCAR SERVICES** **TX AIRS** **S116579236**
21000 FM 134 **TX CENTRAL REGISTRY** **N/A**
KARNACK, TX 75661 **TX COMP HIST**

AIRS:

Name:	TNT RAILCAR SERVICES
Address:	21000 FM 134
City,State,Zip:	KARNACK, TX 75661-191
Permit Num:	80516
Regulated Id:	RN104815824
Permit Type:	PBR
Permit Status:	EFFECTIVE
Permit Issued Date:	12/28/2006
Expiration Date:	12/31/3000
Customer Id:	CN602961484
Company Name:	TNT RAILCAR SERVICES INC
Physical Location Desc:	Not reported
Rep Official(RO):	VICE PRESIDENT
RO Name:	MR DONALD TRUMBLE
RO Delivery Address:	PO BOX 947

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

TNT RAILCAR SERVICES (Continued) **S116579236**

RO City/State/Zip: JEFFERSON, T 75657-094
RO Phone: 501-922-4454
RO Ext Num: Not reported
RO EMail Address: Not reported
Lat Dec Coord Num: -94.23780
Long Dec Coord Num: 32.7085000

COMP HIST:
RN Number: RN104815824
Name: TNT RAILCAR SERVICES
Address: 21000 FM 134
City,State,Zip: KARNACK, TX 75661-191
Region: REGION 05 - TYLER
CN Number: CN602961484
CN Name: TNT RAILCAR SERVICES INC
CN Rating: 0
Classification: UNCLASSIFIED
Date Calculated: 09/01/2020
Date Published to Web: 11/15/2020
Rating: 0
Classification 2: UNCLASSIFIED
Date Rated 2: 09/01/2020
Date Published to Web 2: 11/15/2020
NAICS Code: 482111
SIC Code: 5014
Related Number: 80516,TXR05S757,TXR05S757

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23 **TNT RAILCAR SERVICES** **FINDS 1011381784**
21000 FM 134 **ECHO N/A**
KARNACK, TX 75661

FINDS:
Registry ID: 110035053492

Click Here:

Environmental Interest/Information System:
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
Texas Commission on Environmental Quality - Agency Central Registry (TX-TCEQ ACR) is a computer application that allows the Texas Commission on Environmental Quality (TCEQ) to use a single, centralized area to record common information, such as the company names, addresses, and telephone numbers of those the TCEQ regulates. It also contains additional IDs (permits, registrations, authorizations, etc) and their status.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1011381784

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TNT RAILCAR SERVICES (Continued) **1011381784**

Registry ID: 110035053492
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110035053492
Name: TNT RAILCAR SERVICES
Address: 21000 FM 134
City,State,Zip: KARNACK, TX 75661

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24 **BIG CYPRESS SHOP** **TX LPST U003103534**
HWY 43 **TX UST N/A**
KARNACK, TX

LPST:
Name: BIG CYPRESS SHOP
Address: HWY 43
City,State,Zip: KARNACK, TX 75661
Facility ID: 0029772
LPST Id: 111246
Facility Location: HWY 43
TCEQ Region# and City: REGION 05 - TYLER
Region City: TYLER
Discovered Date: 06/21/1996
Entered Date: 06/28/1996
Reported Date: 12/31/3000
Closure Date: 12/31/3000
Priority: 4.2 - NO GW IMPACT NO APPARENT THREATS OR IMPACTS TO RECEPTORS
Program: 2 - REGION
CA Status: 6A - FINAL CONCURRENCE ISSUED
Priority Description: The vertical extent of contamination has been defined and the assessment results document that groundwater is not affected.
Status: **FINAL CONCURRENCE ISSUED, CASE CLOSED**
Coordinators Primary: 2
Coordinators RPR: XYZ
Responsible Party Name: Not reported
Responsible Party Contact: JIM MCCLURE
Responsible Party Address: 703 W MAIN STE F
Responsible Party City,St,Zip: ATLANTA, TX 75551
Responsible Party Telephone: 903/796-6101
Reported Date: 12/31/3000
Case Start Date: 12/31/3000

UST:
Name: BIG CYPRESS SHOP
Address: HWY 43
City,State,Zip: KARNACK, TX
AI Number: 29772
Facility Type: RETAIL
Facility Begin Date: 10/30/1986
Facility Status: INACTIVE
Additional ID: 719688372002149
Facility Exempt Status: N
Records Off-Site: No
UST Financial Assurance Required: No
Number Of Active UST: 0
Site Location Description: HWY 43
Site Location (Nearest City Name): KARNACK
Site Location (County Name): HARRISON
Site Location (Tceq Region): 5
Site Location (Location Zip): 75661

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BIG CYPRESS SHOP (Continued) **U003103534**

Contact Name/Title:	,
Contact Organization Name:	Not reported
Contact Mailing Address1:	Not reported
Contact Mailing Address2:	Not reported
Contact Mailing City/State/Zip:	Not reported
Contact Telephone:	Not reported
Facility Contact Address Deliverable:	Not reported
Contact Fax Number:	Not reported
Contact Email Address:	Not reported
Signature Date On Earliest Reg Form:	05/01/1986
Signature Name/Title On Earliest Reg Form:	R CLEMENTS,PRES.
Application Received Date On Earliest Reg Form:	05/10/1986
Signature Role On Earliest Reg Form:	Not reported
Signature Company On Earliest Reg Form:	Not reported
Enforcement Action:	Not reported
Facility Not Inspectable:	No

Owner:

Owner CN:	CN601239569
Owner Last Name:	MCCLURE JIM
Owner First Name:	Not reported
Owner Middle Name:	Not reported
Owner Type:	OR
Contact Mailing Address (Delivery):	Not reported
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City:	Not reported
Contact Mailing State:	Not reported
Contact Mailing Zip:	Not reported
Contact Mailing Zip5:	Not reported
Contact Phone Number/Ext:	/
Contact Fax Country Code:	Not reported
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Not reported
Princ ID:	712688372002149
Additional ID:	719688372002149
AI Number:	29772
Owner Effective Begin Date:	08/31/1991
State Tax ID:	Not reported
Contact Role:	Not reported
Contact Name/Title:	/
Contact Organization Name:	Not reported

Tank:

Install Date:	01/01/1976
Tank Registration Date:	05/10/1986
Number of Compartments:	1
Tank Capacity:	2000
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	78537
Facility ID:	64426
Ai Number:	29772
Tank Id:	1
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	05/29/1996

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BIG CYPRESS SHOP (Continued) **U003103534**

Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	N
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	08/07/1989

Compartment Records:

Tank ID:	1
Tank Capacity:	2000
UST Comprt ID:	69434
UST ID:	78537
AI Number:	29772
Compartment ID:	A
Substance Stored1:	GASOLINE

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BIG CYPRESS SHOP (Continued) **U003103534**

Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

Install Date:	01/01/1976
Tank Registration Date:	05/10/1986
Number of Compartments:	1
Tank Capacity:	2000
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	78539
Facility ID:	64426
Ai Number:	29772
Tank Id:	2
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	05/29/1996
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BIG CYPRESS SHOP (Continued) **U003103534**

Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	N
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	08/07/1989

Compartment Records:

Tank ID:	2
Tank Capacity:	2000
UST Comprt ID:	69436
UST ID:	78539
AI Number:	29772
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N

MAP FINDINGS

Map ID
Direction
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BIG CYPRESS SHOP (Continued) **U003103534**

CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

Install Date:	01/01/1983
Tank Registration Date:	05/10/1986
Number of Compartments:	1
Tank Capacity:	4000
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	78538
Facility ID:	64426
Ai Number:	29772
Tank Id:	3
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	05/29/1996
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BIG CYPRESS SHOP (Continued) **U003103534**

Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	N
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	08/07/1989

Compartment Records:

Tank ID:	3
Tank Capacity:	4000
UST Comprt ID:	69435
UST ID:	78538
AI Number:	29772
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N

MAP FINDINGS

Map ID
Direction
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BIG CYPRESS SHOP (Continued) **U003103534**

PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

Facility Billing Contacts:

Contact Organization Name:	MCCLURE JIM
Contact Mailing Address (Delivery):	514 W MAIN ST
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City/State/Zip:	ATLANTA, TX 75551 2527
Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Y
Facility ID:	64426
Additional ID:	719688372002149
Princ ID:	712688372002149
AI Number:	29772
Facility Name:	BIG CYPRESS SHOP
AR Number:	Not reported
AR UST Number Suffix:	Not reported
AR AST Number Suffix:	Not reported
Contact Name/Title:	/

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24 **M & R CONVENIENCE STORE** **TX UST** **U001276266**
HWY 43 **N/A**
KARNACK, TX

UST:

Name:	M & R CONVENIENCE STORE
Address:	HWY 43
City,State,Zip:	KARNACK, TX
AI Number:	44503
Facility Type:	RETAIL
Facility Begin Date:	02/11/1987
Facility Status:	INACTIVE
Additional ID:	9057842002089
Facility Exempt Status:	N
Records Off-Site:	No
UST Financial Assurance Required:	No
Number Of Active UST:	0

MAP FINDINGS

Map ID
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

M & R CONVENIENCE STORE (Continued) **U001276266**

Site Location Description:	HWY 43
Site Location (Nearest City Name):	KARNACK
Site Location (County Name):	HARRISON
Site Location (Tceq Region):	5
Site Location (Location Zip):	75661
Contact Name/Title:	SONNY RUSSELL,OWNER
Contact Organization Name:	M & R CONVENIENCE STORE
Contact Mailing Address1:	Not reported
Contact Mailing Address2:	Not reported
Contact Mailing City/State/Zip:	Not reported
Contact Telephone:	2146657190
Facility Contact Address Deliverable:	Not reported
Contact Fax Number:	Not reported
Contact Email Address:	Not reported
Signature Date On Earliest Reg Form:	01/19/1987
Signature Name/Title On Earliest Reg Form:	MARSHALL J BROOKS,REP.
Application Received Date On Earliest Reg Form:	01/26/1987
Signature Role On Earliest Reg Form:	Not reported
Signature Company On Earliest Reg Form:	Not reported
Enforcement Action:	Not reported
Facility Not Inspectable:	No

Owner:

Owner CN:	CN600957385
Owner Last Name:	BROOKS OPERATING COMPANY
Owner First Name:	Not reported
Owner Middle Name:	Not reported
Owner Type:	CO
Contact Mailing Address (Delivery):	Not reported
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City:	Not reported
Contact Mailing State:	Not reported
Contact Mailing Zip:	Not reported
Contact Mailing Zip5:	Not reported
Contact Phone Number/Ext:	/
Contact Fax Country Code:	Not reported
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Not reported
Princ ID:	614101582002087
Additional ID:	9057842002089
AI Number:	44503
Owner Effective Begin Date:	02/11/1987
State Tax ID:	17512920426
Contact Role:	Not reported
Contact Name/Title:	/
Contact Organization Name:	Not reported

Tank:

Install Date:	01/01/1987
Tank Registration Date:	01/26/1987
Number of Compartments:	1
Tank Capacity:	2000
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	116634

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

M & R CONVENIENCE STORE (Continued) **U001276266**

Facility ID:	67188
Ai Number:	44503
Tank Id:	1
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	05/01/1988
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	Not reported

Compartment Records:

Tank ID:	1
Tank Capacity:	2000

MAP FINDINGS

Map ID
Direction
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

M & R CONVENIENCE STORE (Continued) **U001276266**

UST Comprt ID:	88007
UST ID:	116634
AI Number:	44503
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

More Self Certification:

Self Cert ID:	17498
Cert ID:	119542
UST Comprt ID:	363293
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A

Self Cert ID:	17498
Cert ID:	119543
UST Comprt ID:	363294
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A

MAP FINDINGS

Map ID
Direction
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M & R CONVENIENCE STORE (Continued) **U001276266**

Self Cert ID:	17498
Cert ID:	333797
UST Comprt ID:	968019
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	316453
UST Comprt ID:	916242
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	299530
UST Comprt ID:	865561
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	282107
UST Comprt ID:	813780
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	264834
UST Comprt ID:	762835
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	249017
UST Comprt ID:	715788
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	231968
UST Comprt ID:	665995
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498

MAP FINDINGS

Map ID
Direction
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

M & R CONVENIENCE STORE (Continued) **U001276266**

Cert ID:	119553
UST Comprt ID:	363282
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119552
UST Comprt ID:	363283
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119551
UST Comprt ID:	363284
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119550
UST Comprt ID:	363285
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119549
UST Comprt ID:	363286
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119548
UST Comprt ID:	363287
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119547
UST Comprt ID:	363288
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119546

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

M & R CONVENIENCE STORE (Continued) **U001276266**

UST Comprt ID:	363289
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119545
UST Comprt ID:	363290
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119544
UST Comprt ID:	363291
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119541
UST Comprt ID:	363292
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Install Date:	01/01/1987
Tank Registration Date:	01/26/1987
Number of Compartments:	1
Tank Capacity:	2000
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	116635
Facility ID:	67188
Ai Number:	44503
Tank Id:	3
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	05/01/1988
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

M & R CONVENIENCE STORE (Continued) **U001276266**

Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	Not reported

Compartment Records:

Tank ID:	3
Tank Capacity:	2000
UST Comprt ID:	88008
UST ID:	116635
AI Number:	44503
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N

M & R CONVENIENCE STORE (Continued) **U001276266**

PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

More Self Certification:

Self Cert ID:	17498
Cert ID:	119542
UST Comprt ID:	363293
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119543
UST Comprt ID:	363294
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	333797
UST Comprt ID:	968019
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	316453
UST Comprt ID:	916242
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	299530

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

M & R CONVENIENCE STORE (Continued) **U001276266**

UST Comprt ID:	865561
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	282107
UST Comprt ID:	813780
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	264834
UST Comprt ID:	762835
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	249017
UST Comprt ID:	715788
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	231968
UST Comprt ID:	665995
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119553
UST Comprt ID:	363282
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119552
UST Comprt ID:	363283
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119551
UST Comprt ID:	363284

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

M & R CONVENIENCE STORE (Continued) **U001276266**

UST ID: 115020
AI Number: 44503
Tank ID: 1
Compartment ID: A

Self Cert ID: 17498
Cert ID: 119550
UST Comprt ID: 363285
UST ID: 115020
AI Number: 44503
Tank ID: 1
Compartment ID: A

Self Cert ID: 17498
Cert ID: 119549
UST Comprt ID: 363286
UST ID: 115020
AI Number: 44503
Tank ID: 1
Compartment ID: A

Self Cert ID: 17498
Cert ID: 119548
UST Comprt ID: 363287
UST ID: 115020
AI Number: 44503
Tank ID: 1
Compartment ID: A

Self Cert ID: 17498
Cert ID: 119547
UST Comprt ID: 363288
UST ID: 115020
AI Number: 44503
Tank ID: 1
Compartment ID: A

Self Cert ID: 17498
Cert ID: 119546
UST Comprt ID: 363289
UST ID: 115020
AI Number: 44503
Tank ID: 1
Compartment ID: A

Self Cert ID: 17498
Cert ID: 119545
UST Comprt ID: 363290
UST ID: 115020
AI Number: 44503
Tank ID: 1
Compartment ID: A

Self Cert ID: 17498
Cert ID: 119544
UST Comprt ID: 363291
UST ID: 115020

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

M & R CONVENIENCE STORE (Continued) **U001276266**

AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119541
UST Comprt ID:	363292
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Install Date:	01/01/1987
Tank Registration Date:	01/26/1987
Number of Compartments:	1
Tank Capacity:	2000
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	116636
Facility ID:	67188
Ai Number:	44503
Tank Id:	2
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	05/01/1988
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

M & R CONVENIENCE STORE (Continued) **U001276266**

TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	Not reported

Compartment Records:

Tank ID:	2
Tank Capacity:	2000
UST Comprt ID:	88009
UST ID:	116636
AI Number:	44503
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

M & R CONVENIENCE STORE (Continued) **U001276266**

Spill And Overfill Prevention Variance: N
Stage I Vapor Recovery: Not reported
Stage 1 Installation Date: Not reported

More Self Certification:
Self Cert ID: 17498
Cert ID: 119542
UST Comprt ID: 363293
UST ID: 115020
AI Number: 44503
Tank ID: 1
Compartment ID: A

Self Cert ID: 17498
Cert ID: 119543
UST Comprt ID: 363294
UST ID: 115020
AI Number: 44503
Tank ID: 1
Compartment ID: A

Self Cert ID: 17498
Cert ID: 333797
UST Comprt ID: 968019
UST ID: 115020
AI Number: 44503
Tank ID: 1
Compartment ID: A

Self Cert ID: 17498
Cert ID: 316453
UST Comprt ID: 916242
UST ID: 115020
AI Number: 44503
Tank ID: 1
Compartment ID: A

Self Cert ID: 17498
Cert ID: 299530
UST Comprt ID: 865561
UST ID: 115020
AI Number: 44503
Tank ID: 1
Compartment ID: A

Self Cert ID: 17498
Cert ID: 282107
UST Comprt ID: 813780
UST ID: 115020
AI Number: 44503
Tank ID: 1
Compartment ID: A

Self Cert ID: 17498
Cert ID: 264834
UST Comprt ID: 762835
UST ID: 115020

M & R CONVENIENCE STORE (Continued) **U001276266**

AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	249017
UST Comprt ID:	715788
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	231968
UST Comprt ID:	665995
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119553
UST Comprt ID:	363282
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119552
UST Comprt ID:	363283
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119551
UST Comprt ID:	363284
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119550
UST Comprt ID:	363285
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119549
UST Comprt ID:	363286
UST ID:	115020
AI Number:	44503

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

M & R CONVENIENCE STORE (Continued) **U001276266**

Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119548
UST Comprt ID:	363287
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119547
UST Comprt ID:	363288
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119546
UST Comprt ID:	363289
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119545
UST Comprt ID:	363290
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119544
UST Comprt ID:	363291
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A
Self Cert ID:	17498
Cert ID:	119541
UST Comprt ID:	363292
UST ID:	115020
AI Number:	44503
Tank ID:	1
Compartment ID:	A

Facility Billing Contacts:

Contact Organization Name:	BROOKS OPERATING COMPANY
Contact Mailing Address (Delivery):	PO BOX 1069
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City/State/Zip:	ATLANTA, TX 75551 1069

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

M & R CONVENIENCE STORE (Continued) **U001276266**

Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Y
Facility ID:	67188
Additional ID:	9057842002089
Princ ID:	614101582002087
AI Number:	44503
Facility Name:	M & R CONVENIENCE STORE
AR Number:	Not reported
AR UST Number Suffix:	Not reported
AR AST Number Suffix:	Not reported
Contact Name/Title:	JAMES VERSCHOYLE/

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25 **BIG PINES LODGE** **TX CENTRAL REGISTRY** **S126542614**
747 PINE ISLAND ROAD **N/A**
KARNACK, TX 75661

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25 **BIG PINES LODGE** **TX UST** **U001271347**
747 PINE ISLAND ROAD **N/A**
KARNACK, TX 75661

UST:

Name:	BIG PINES LODGE
Address:	747 PINE ISLAND ROAD
City,State,Zip:	KARNACK, TX 75661
AI Number:	38750
Facility Type:	UNKNOWN
Facility Begin Date:	01/09/1987
Facility Status:	INACTIVE
Additional ID:	976152202002087
Facility Exempt Status:	N
Records Off-Site:	No
UST Financial Assurance Required:	No
Number Of Active UST:	0
Site Location Description:	PINE ISLAND
Site Location (Nearest City Name):	KARNACK
Site Location (County Name):	HARRISON
Site Location (Tceq Region):	5
Site Location (Location Zip):	75661
Contact Name/Title:	G E WILLIAMSON,MGR.
Contact Organization Name:	BIG PINES LODGE
Contact Mailing Address1:	Not reported
Contact Mailing Address2:	Not reported
Contact Mailing City/State/Zip:	Not reported
Contact Telephone:	2146793466
Facility Contact Address Deliverable:	Not reported
Contact Fax Number:	Not reported
Contact Email Address:	Not reported
Signature Date On Earliest Reg Form:	05/06/1986
Signature Name/Title On Earliest Reg Form:	G E WILLIAMSON,MGR.
Application Received Date On Earliest Reg Form:	05/08/1986
Signature Role On Earliest Reg Form:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BIG PINES LODGE (Continued) **U001271347**

Signature Company On Earliest Reg Form:	Not reported
Enforcement Action:	Not reported
Facility Not Inspectable:	No

Owner:

Owner CN:	CN600959985
Owner Last Name:	BIG PINES LODGE
Owner First Name:	Not reported
Owner Middle Name:	Not reported
Owner Type:	OR
Contact Mailing Address (Delivery):	Not reported
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City:	Not reported
Contact Mailing State:	Not reported
Contact Mailing Zip:	Not reported
Contact Mailing Zip5:	Not reported
Contact Phone Number/Ext:	/
Contact Fax Country Code:	Not reported
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Not reported
Princ ID:	966152192002087
Additional ID:	976152202002087
AI Number:	38750
Owner Effective Begin Date:	01/09/1987
State Tax ID:	Not reported
Contact Role:	Not reported
Contact Name/Title:	/
Contact Organization Name:	Not reported

Tank:

Install Date:	01/01/1976
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	2005
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	102163
Facility ID:	69760
Ai Number:	38750
Tank Id:	2
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	01/22/1990
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BIG PINES LODGE (Continued) **U001271347**

Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	Not reported

Compartment Records:

Tank ID:	2
Tank Capacity:	2005
UST Comprt ID:	87620
UST ID:	102163
AI Number:	38750
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BIG PINES LODGE (Continued) **U001271347**

PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

Install Date:	01/01/1971
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	550
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	102164
Facility ID:	69760
Ai Number:	38750
Tank Id:	1
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	01/22/1990
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BIG PINES LODGE (Continued) **U001271347**

Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	Not reported

Compartment Records:

Tank ID:	1
Tank Capacity:	550
UST Comprt ID:	87621
UST ID:	102164
AI Number:	38750
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BIG PINES LODGE (Continued) **U001271347**

SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

Facility Billing Contacts:

Contact Organization Name:	BIG PINES LODGE
Contact Mailing Address (Delivery):	PO BOX 2
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City/State/Zip:	KARNACK, TX 75661 0002
Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Y
Facility ID:	69760
Additional ID:	976152202002087
Princ ID:	966152192002087
AI Number:	38750
Facility Name:	BIG PINES LODGE
AR Number:	Not reported
AR UST Number Suffix:	Not reported
AR AST Number Suffix:	Not reported
Contact Name/Title:	GEORGE WILLIAMSON/

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25 **BIG PINES LODGE** **TX LPST** **S116702917**
747 PINE ISLAND ROAD **N/A**
KARNACK, TX

LPST:

Name:	BIG PINES LODGE
Address:	747 PINE ISLAND ROAD
City,State,Zip:	KARNACK, TX
Facility ID:	Not reported
LPST Id:	94910
Facility Location:	Not reported
TCEQ Region# and City:	REGION 05 - TYLER
Region City:	Not reported
Discovered Date:	04/24/1990
Entered Date:	03/16/1990
Reported Date:	01/22/1990
Closure Date:	01/22/1990
Priority:	4A - SOIL CONTAMINATION ONLY REQUIRES FULL SITE ASSESSMENT RAP
Program:	2 - REGION
CA Status:	6A - FINAL CONCURRENCE ISSUED
Priority Description:	Not reported
Status:	**Not reported**

MAP FINDINGS

Map ID
Direction
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BIG PINES LODGE (Continued) **S116702917**

Coordinators Primary:	Not reported
Coordinators RPR:	Not reported
Responsible Party Name:	Not reported
Responsible Party Contact:	Not reported
Responsible Party Address:	Not reported
Responsible Party City,St,Zip:	Not reported
Responsible Party Telephone:	Not reported
Reported Date:	01/22/1990
Case Start Date:	01/22/1990

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26 **SHADY GLADE CAMP** **TX UST** **U001256502**
CYPRESS **N/A**
MARSHALL, TX

UST:

Name:	SHADY GLADE CAMP
Address:	CYPRESS
City,State,Zip:	MARSHALL, TX
AI Number:	21924
Facility Type:	OTHER
Facility Begin Date:	09/16/1986
Facility Status:	INACTIVE
Additional ID:	538299892003020
Facility Exempt Status:	N
Records Off-Site:	No
UST Financial Assurance Required:	No
Number Of Active UST:	0
Site Location Description:	CYPRESS
Site Location (Nearest City Name):	MARSHALL
Site Location (County Name):	HARRISON
Site Location (Tceq Region):	5
Site Location (Location Zip):	75661
Contact Name/Title:	R N COLE,MGR
Contact Organization Name:	SHADY GLADE CAMP
Contact Mailing Address1:	Not reported
Contact Mailing Address2:	Not reported
Contact Mailing City/State/Zip:	Not reported
Contact Telephone:	2147893295
Facility Contact Address Deliverable:	Not reported
Contact Fax Number:	Not reported
Contact Email Address:	Not reported
Signature Date On Earliest Reg Form:	05/01/1986
Signature Name/Title On Earliest Reg Form:	R N COLE,MGR
Application Received Date On Earliest Reg Form:	05/08/1986
Signature Role On Earliest Reg Form:	Not reported
Signature Company On Earliest Reg Form:	Not reported
Enforcement Action:	Not reported
Facility Not Inspectable:	No

Owner:

Owner CN:	CN601531205
Owner Last Name:	COLE RICHARD AND HINES BEVERLY
Owner First Name:	Not reported
Owner Middle Name:	Not reported
Owner Type:	OR
Contact Mailing Address (Delivery):	Not reported
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SHADY GLADE CAMP (Continued) **U001256502**

Contact Mailing State:	Not reported
Contact Mailing Zip:	Not reported
Contact Mailing Zip5:	Not reported
Contact Phone Number/Ext:	/
Contact Fax Country Code:	Not reported
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Not reported
Princ ID:	528299892003020
Additional ID:	538299892003020
AI Number:	21924
Owner Effective Begin Date:	09/16/1986
State Tax ID:	Not reported
Contact Role:	Not reported
Contact Name/Title:	/
Contact Organization Name:	Not reported

Tank:

Install Date:	01/01/1956
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	550
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	56277
Facility ID:	58607
Ai Number:	21924
Tank Id:	2
Tank Status (Current):	PERM FILLED IN PLACE
Tank Status Date:	06/30/1968
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SHADY GLADE CAMP (Continued) **U001256502**

TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	01/15/1992

Compartment Records:

Tank ID:	2
Tank Capacity:	Not reported
UST Comprt ID:	55137
UST ID:	56277
AI Number:	21924
Compartment ID:	A
Substance Stored1:	EMPTY
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SHADY GLADE CAMP (Continued) **U001256502**

Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

More Self Certification:

Self Cert ID:	8371
Cert ID:	82872
UST Comprt ID:	252054
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	305455
UST Comprt ID:	883795
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	288744
UST Comprt ID:	833652
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	271793
UST Comprt ID:	783372
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	255287
UST Comprt ID:	734264
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	239267
UST Comprt ID:	687191
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SHADY GLADE CAMP (Continued) **U001256502**

Self Cert ID:	8371
Cert ID:	222757
UST Comprt ID:	638855
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82870
UST Comprt ID:	252058
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82869
UST Comprt ID:	252057
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82868
UST Comprt ID:	252056
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82871
UST Comprt ID:	252055
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82873
UST Comprt ID:	252053
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82874
UST Comprt ID:	252052
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371

MAP FINDINGS

Map ID
Direction
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SHADY GLADE CAMP (Continued) **U001256502**

Cert ID:	82875
UST Comprt ID:	252051
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82876
UST Comprt ID:	252050
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82877
UST Comprt ID:	252049
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82878
UST Comprt ID:	252048
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82879
UST Comprt ID:	252047
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A

Install Date:	01/01/1978
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	1000
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	56276
Facility ID:	58607
Ai Number:	21924
Tank Id:	1
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	12/10/1991
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SHADY GLADE CAMP (Continued) **U001256502**

Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	01/15/1992

Compartment Records:

Tank ID:	1
Tank Capacity:	1000
UST Comprt ID:	55136
UST ID:	56276
AI Number:	21924
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SHADY GLADE CAMP (Continued) **U001256502**

CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

More Self Certification:

Self Cert ID:	8371
Cert ID:	82872
UST Comprt ID:	252054
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A

Self Cert ID:	8371
Cert ID:	305455
UST Comprt ID:	883795
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A

Self Cert ID:	8371
Cert ID:	288744
UST Comprt ID:	833652
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A

Self Cert ID:	8371

SHADY GLADE CAMP (Continued) **U001256502**

Cert ID:	271793
UST Comprt ID:	783372
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	255287
UST Comprt ID:	734264
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	239267
UST Comprt ID:	687191
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	222757
UST Comprt ID:	638855
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82870
UST Comprt ID:	252058
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82869
UST Comprt ID:	252057
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82868
UST Comprt ID:	252056
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82871

SHADY GLADE CAMP (Continued) **U001256502**

UST Comprt ID:	252055
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82873
UST Comprt ID:	252053
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82874
UST Comprt ID:	252052
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82875
UST Comprt ID:	252051
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82876
UST Comprt ID:	252050
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82877
UST Comprt ID:	252049
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82878
UST Comprt ID:	252048
UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A
Self Cert ID:	8371
Cert ID:	82879
UST Comprt ID:	252047

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SHADY GLADE CAMP (Continued) **U001256502**

UST ID:	82153
AI Number:	21924
Tank ID:	1
Compartment ID:	A

Facility Billing Contacts:

Contact Organization Name:	COLE RICHARD AND HINES BEVERLY
Contact Mailing Address (Delivery):	PO BOX 311
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City/State/Zip:	MARSHALL, TX 75671 0311
Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Y
Facility ID:	58607
Additional ID:	538299892003020
Princ ID:	528299892003020
AI Number:	21924
Facility Name:	SHADY GLADE CAMP
AR Number:	Not reported
AR UST Number Suffix:	Not reported
AR AST Number Suffix:	Not reported
Contact Name/Title:	/

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26 **NFR ENERGY KARNACK FACILITIES** **TX TIER 2** **S113699972**
N/A

JEFFERSON, TX 75657

TIER 2:

Facility Id/Name:	FATR2012E00528358815/NFR ENERGY KARNACK FACILITIES
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/8/2013
Date Tier 2 Signed:	2/21/2013
Mailing Address:	1415 Louisiana St., Suite 1600
Mailing City/State/Country:	Houston, TX USA
Dikes/Other Safeguard Meas Emp:	F
All Chemicals Same As Last Year:	False
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	F
Fire District:	Not reported
Submitted By:	Niki Hecker Envriomental Consultant
Latitude:	32.6947
Longitude:	-94.1778
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Site Coordinate Abbr Submitted:	F
Number Of Emp. Required:	Not reported
Fail Valid:	T
Site Coordinate Abbr Submitted:	F
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

NFR ENERGY KARNACK FACILITIES (Continued) **S113699972**

Fire District: Not reported
Additional Mail Addr: Not reported

Facility Info:
Id: 1311
Id Type: SIC
Description: Not reported
Last Modified: 2/22/2013
Id: 211111
Id Type: NAICS
Description: Not reported
Last Modified: 2/22/2013

Contact:
Contact Email: Not reported
Contact Mail Address: 504 Spring Hill Dr., Suite 300
Contact City/State/Zip: Spring, TX 77386
Contact Mail Country: USA
Contact Type 1: Submitter
Contact Name: Niki Hecker
Title: Envriomental Consultant
Modification Date: 2/27/2013

Contact Email: Not reported
Contact Mail Address: 504 Spring Hill Dr., Suite 300
Contact City/State/Zip: Spring, TX 77386
Contact Mail Country: USA
Contact Type 1: Submitter
Contact Name: Niki Hecker
Title: Envriomental Consultant
Modification Date: 2/27/2013

Contact:
Contact Email: Not reported
Contact Mail Address: 504 Spring Hill Dr., Suite 300
Contact City/State/Zip: Spring, TX 77386
Contact Mail Country: USA
Contact Type 1: Submitter
Contact Name: Niki Hecker
Title: Envriomental Consultant
Modification Date: 2/27/2013

Contact Email: Not reported
Contact Mail Address: 504 Spring Hill Dr., Suite 300
Contact City/State/Zip: Spring, TX 77386
Contact Mail Country: USA
Contact Type 1: Submitter
Contact Name: Niki Hecker
Title: Envriomental Consultant
Modification Date: 2/27/2013

Contact:
Contact Email: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

NFR ENERGY KARNACK FACILITIES (Continued) **S113699972**

Contact Mail Address:	1415 Louisiana St., Suite 1600
Contact City/State/Zip:	Houston, TX 77002
Contact Mail Country:	USA
Contact Type 1:	Owner/Operator
Contact Name:	NFR Energy
Title:	Not reported
Modification Date:	3/8/2013

Contact Email:	Not reported
Contact Mail Address:	1415 Louisiana St., Suite 1600
Contact City/State/Zip:	Houston, TX 77002
Contact Mail Country:	USA
Contact Type 1:	Owner/Operator
Contact Name:	NFR Energy
Title:	Not reported
Modification Date:	3/8/2013

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Randal Olivier
Title:	Forman
Modification Date:	3/8/2013

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Randal Olivier
Title:	Forman
Modification Date:	3/8/2013

Chemical Inventory:

Facility Id:	FATR2012E00528358815
Chemical Name:	PRODUCED HYDROCARBONS
Chemical Inv Record Id:	CVTR2012E01686638324
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	F
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	T
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

NFR ENERGY KARNACK FACILITIES (Continued) **S113699972**

Pure Form:	F
Reactive Hazard:	F
Solid:	F
Trade Secret:	F
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	F

Notes: Not reported
Validation: Not reported

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27 **T.J. TAYLOR WELL NO. 1** **TX TIER 2** **S109198275**
N/A

KARNACK, TX 75661

TIER 2:

Facility Id/Name:	FATR200753TTDQ03YNLM/T.J. TAYLOR WELL NO. 1
Reporting Year:	2007
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	8/5/2008
Date Tier 2 Signed:	2-13-2008
Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Karnack VFD
Submitted By:	Paul Griesedieck
Latitude:	32.694167
Longitude:	94.233889
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported
Validation: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

27 CHARLIE BELL WELL NO. 3 — **TX TIER 2** — **S109177216** / **N/A**

MARSHALL, TX 75672

TIER 2:

Facility Id/Name:	FATR2007542P650023KE/CHARLIE BELL WELL NO. 3
Reporting Year:	2007
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	8/5/2008
Date Tier 2 Signed:	2-13-2008
Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Harrison CO F/M
Submitted By:	Paul Griesedieck
Latitude:	32.694167
Longitude:	94.233889
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported
Validation: Not reported

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28 T.J. TAYLOR WELL NO. 4 — **TX TIER 2** — **S109198280** / **N/A**

KARNACK, TX 75661

TIER 2:

Facility Id/Name:	FATR200753TTRH04NUQ4/T.J. TAYLOR WELL NO. 4
Reporting Year:	2007
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	8/5/2008
Date Tier 2 Signed:	2-13-2008
Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Karnack
Submitted By:	Paul Griesedieck
Latitude:	32.692778

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

T.J. TAYLOR WELL NO. 4 (Continued) **S109198280**

Longitude:	94.203056
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported
Validation: Not reported

---

28 **T.J. TAYLOR WELL NO. 3** **TX TIER 2** **S109198279** **N/A**

KARNACK, TX 75661

TIER 2:

Facility Id/Name:	FATR200753TTKC04AJ3U/T.J. TAYLOR WELL NO. 3
Reporting Year:	2007
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	8/5/2008
Date Tier 2 Signed:	2-13-2008
Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Karnack VFD
Submitted By:	Paul Griesedieck
Latitude:	32.693611
Longitude:	94.202500
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported
Validation: Not reported

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
29	**ROGERS GAS UNIT 1H** **LAT 32.692222 LONG 94.245277** **KARNACK, TX 75661**	**TX TIER 2**	**S111054852** **N/A**

TIER 2:

Facility Id/Name:	FATR20127R47AA02W38U/ROGERS GAS UNIT 1H
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/10/2013
Date Tier 2 Signed:	02/19/2013
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.692222
Longitude:	94.245277
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20117R47AA02W38U/ROGERS GAS UNIT 1H
Reporting Year:	2011
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/16/2012
Date Tier 2 Signed:	02/21/2012
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.692222
Longitude:	94.245277
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ROGERS GAS UNIT 1H (Continued) **S111054852**

Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported
Facility Id/Name:	FATR20107R47AA02W38U/ROGERS GAS UNIT 1H
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	02/21/2011
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.692222
Longitude:	94.245277
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/21/2011
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/21/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company
Title:	Not reported
Modification Date:	2/29/2012
Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ROGERS GAS UNIT 1H (Continued) **S111054852**

Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Chemical Inventory:
Facility Id: FATR20117R47AA02W38U
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR20117R47AA0323A6
CAS Number: 8002-05-9
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ROGERS GAS UNIT 1H (Continued) **S111054852**

Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R47AA0333A6
Chemical Inventory Record Id:	CVTR20117R47AA0323A6
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20117R47AA02W38U
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20117R47AA0343CG
CAS Number:	107-21-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R47AB0353CY

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ROGERS GAS UNIT 1H (Continued) **S111054852**

Chemical Inventory Record Id:	CVTR20117R47AA0343CG
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012
Facility Id:	FATR20117R47AA02W38U
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20117R47AB0363DE
CAS Number:	67-56-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R47AB0373DV
Chemical Inventory Record Id:	CVTR20117R47AB0363DE
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012
Facility Id:	FATR20117R47AA02W38U
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20117R47AB0383EB
CAS Number:	64742-47-8
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ROGERS GAS UNIT 1H (Continued) **S111054852**

Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20117R47AB0393ES
Chemical Inventory Record Id:	CVTR20117R47AB0383EB
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Notes: Not reported
Validation: Not reported

Facility Info:

Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/21/2011
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/21/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company
Title:	Not reported
Modification Date:	3/9/2013

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ROGERS GAS UNIT 1H (Continued) **S111054852**

Title: Not reported
Modification Date: 3/9/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Chemical Inventory:
Facility Id: FATR20127R47AA02W38U
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR20127R47AA0323A6
CAS Number: 8002-05-9
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/8/2013

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ROGERS GAS UNIT 1H (Continued) **S111054852**

Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R47AA0333A6
Chemical Inventory Record Id:	CVTR20127R47AA0323A6
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/8/2013

Facility Id:	FATR20127R47AA02W38U
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20127R47AA0343CG
CAS Number:	107-21-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R47AB0353CY
Chemical Inventory Record Id:	CVTR20127R47AA0343CG
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ROGERS GAS UNIT 1H (Continued) **S111054852**

Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013
Facility Id:	FATR20127R47AA02W38U
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20127R47AB0363DE
CAS Number:	67-56-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R47AB0373DV
Chemical Inventory Record Id:	CVTR20127R47AB0363DE
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013
Facility Id:	FATR20127R47AA02W38U
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20127R47AB0383EB
CAS Number:	64742-47-8
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ROGERS GAS UNIT 1H (Continued) **S111054852**

Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20127R47AB0393ES
Chemical Inventory Record Id:	CVTR20127R47AB0383EB
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013

Notes: Not reported
Validation: Not reported

Facility Info:

Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/21/2011
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/21/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kirk Weaver
Title:	Pumper
Modification Date:	4/3/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	P.O. BOX 1714
Contact City/State/Zip:	MIDLAND, TX 79702-1714
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	WAGNER & BROWN

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ROGERS GAS UNIT 1H (Continued) **S111054852**

Title: Not reported
Modification Date: 4/3/2011

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 4/3/2011

Chemical Inventory:
Facility Id: FATR20107R47AA02W38U
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR20107R47AA0323A6
CAS Number: 8002-05-9
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/9/2011
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20107R47AA0333A6
Chemical Inventory Record Id: CVTR20107R47AA0323A6
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT THE FACILITY
Last Modified: 3/9/2011

Facility Id: FATR20107R47AA02W38U
Chemical Name: GLYCOL
Chemical Inv Record Id: CVTR20107R47AA0343CG
CAS Number: 107-21-1

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ROGERS GAS UNIT 1H (Continued) **S111054852**

Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20107R47AB0353CY
Chemical Inventory Record Id:	CVTR20107R47AA0343CG
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011

Facility Id:	FATR20107R47AA02W38U
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20107R47AB0363DE
CAS Number:	67-56-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ROGERS GAS UNIT 1H (Continued) **S111054852**

Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20107R47AB0373DV
Chemical Inventory Record Id: CVTR20107R47AB0363DE
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/9/2011

Facility Id: FATR20107R47AA02W38U
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR20107R47AB0383EB
CAS Number: 64742-47-8
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/9/2011
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20107R47AB0393ES
Chemical Inventory Record Id: CVTR20107R47AB0383EB
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/9/2011

Notes: Not reported
Validation: Not reported

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
29	**COLLIER** **LAT 32.693028 LONG 94.247722** **MARSHALL, TX 75670**	**TX TIER 2**	**S108866291** **N/A**

TIER 2:

Facility Id/Name:	FATR201148T4NX05GDRC/COLLIER
Reporting Year:	2011
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/16/2012
Date Tier 2 Signed:	02/21/2012
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.693028
Longitude:	94.24772
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR201048T4NX05GDRC/COLLIER
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	02/21/2011
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.693028
Longitude:	94.24772
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S108866291**

Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported
Facility Id/Name:	FATR200648T4NX05GDRC/COLLIER
Reporting Year:	2006
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	10/10/2007
Date Tier 2 Signed:	2/08/2007
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Seleta M. Davis
Latitude:	32.693028
Longitude:	94.24772
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/17/2006
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/3/2009

Contact:

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company
Title:	Not reported
Modification Date:	2/29/2012
Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S108866291**

Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Chemical Inventory:
Facility Id: FATR201148T4NX05GDRC
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR201148T4NX05NDT6
CAS Number: 8002-05-9
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S108866291**

Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201148T4NX05PDTN
Chemical Inventory Record Id:	CVTR201148T4NX05NDT6
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR201148T4NX05GDRC
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR201148T4NX05QDU4
CAS Number:	107-21-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201148T4NX05RDUK

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S108866291**

Chemical Inventory Record Id: CVTR201148T4NX05QDU4
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 2/24/2012

Facility Id: FATR201148T4NX05GDRC
Chemical Name: METHANOL
Chemical Inv Record Id: CVTR201148T4NX05SDV1
CAS Number: 67-56-1
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 2/24/2012
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2011
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201148T4NX05TDVH
Chemical Inventory Record Id: CVTR201148T4NX05SDV1
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 2/24/2012

Facility Id: FATR201148T4NX05GDRC
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR201148T4NX05WDWE
CAS Number: 64742-47-8
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S108866291**

Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201148T4NX05XDWV
Chemical Inventory Record Id:	CVTR201148T4NX05WDWE
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Notes: Not reported
Validation: Not reported

Notes: Not reported
Validation: Not reported

Facility Info:

Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/17/2006
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/3/2009

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Longview, TX
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	David Tadlock
Title:	MANAGER
Modification Date:	4/3/2011

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S108866291**

Contact:
Contact Email: Not reported
Contact Mail Address: P.O. BOX 1714
Contact City/State/Zip: MIDLAND, TX 79702-1714
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: WAGNER & BROWN
Title: Not reported
Modification Date: 4/3/2011

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 4/3/2011

Chemical Inventory:
Facility Id: FATR201048T4NX05GDRC
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR201048T4NX05NDT6
CAS Number: 8002-05-9
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 4/3/2011
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201048T4NX05PDTN
Chemical Inventory Record Id: CVTR201048T4NX05NDT6
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S108866291**

Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT THE FACILITY
Last Modified: 4/3/2011

Facility Id: FATR201048T4NX05GDRC
Chemical Name: GLYCOL
Chemical Inv Record Id: CVTR201048T4NX05QDU4
CAS Number: 107-21-1
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 4/3/2011
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: T
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201048T4NX05RDUK
Chemical Inventory Record Id: CVTR201048T4NX05QDU4
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 4/3/2011

Facility Id: FATR201048T4NX05GDRC
Chemical Name: METHANOL
Chemical Inv Record Id: CVTR201048T4NX05SDV1
CAS Number: 67-56-1
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 4/3/2011
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S108866291**

Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201048T4NX05TDVH
Chemical Inventory Record Id:	CVTR201048T4NX05SDV1
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	4/3/2011

Facility Id:	FATR201048T4NX05GDRC
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR201048T4NX05WDWE
CAS Number:	64742-47-8
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	4/3/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201048T4NX05XDWV
Chemical Inventory Record Id:	CVTR201048T4NX05WDWE
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number

COLLIER (Continued) **S108866291**

Last Modified: 4/3/2011

Notes: Not reported
Validation: Not reported

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29 **COLLIER** **TX TIER 2** **S110387506**
LAT 32.693028 LONG 94.247722 **N/A**
MARSHALL, TX 75670

TIER 2:

Facility Id/Name:	FATR200948T4NX05GDRC/COLLIER
Reporting Year:	2009
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/24/2010
Date Tier 2 Signed:	2/23/2010
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.693028
Longitude:	94.24772
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/17/2006
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/3/2009

Contact:

Contact Email:	Not reported
Contact Mail Address:	P.O. BOX 6531
Contact City/State/Zip:	LONGVIEW, TX 75608-6531
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S110387506**

Contact Name: PAUL KAPASKO
Title: OPERATIONS MANAGER
Modification Date: 3/14/2010

Contact:
Contact Email: Not reported
Contact Mail Address: P.O. BOX 6531
Contact City/State/Zip: LONGVIEW, TX 75608-6531
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: ROBERT WESTERMAN
Title: Not reported
Modification Date: 3/14/2010

Contact:
Contact Email: Not reported
Contact Mail Address: P.O. BOX 6531
Contact City/State/Zip: LONGVIEW, TX 75608-6531
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: C W RESOURCES, INC.
Title: Not reported
Modification Date: 3/14/2010

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: KENNETH Doan
Title: Production Foreman
Modification Date: 3/14/2010

Contact:
Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/14/2010

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: USA
Contact Type 1: Emergency Contact

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S110387506**

Contact Name: JERRY HAMILTON
Title: MANAGER
Modification Date: 3/1/2010

Chemical Inventory:
Facility Id: FATR200948T4NX05GDRC
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR200948T4NX05NDT6
CAS Number: 8002-05-9
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/1/2010
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2009
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR200948T4NX05PDTN
Chemical Inventory Record Id: CVTR200948T4NX05NDT6
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT THE FACILITY
Last Modified: 3/1/2010

Facility Id: FATR200948T4NX05GDRC
Chemical Name: GLYCOL
Chemical Inv Record Id: CVTR200948T4NX05QDU4
CAS Number: 107-21-1
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/1/2010
Days On Site: 365
Fire Hazard: T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S110387506**

Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR200948T4NX05RDUK
Chemical Inventory Record Id:	CVTR200948T4NX05QDU4
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/1/2010

Facility Id:	FATR200948T4NX05GDRC
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR200948T4NX05SDV1
CAS Number:	67-56-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/1/2010
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR200948T4NX05TDVH
Chemical Inventory Record Id:	CVTR200948T4NX05SDV1
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S110387506**

Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/1/2010

Facility Id: FATR200948T4NX05GDRC
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR200948T4NX05WDWE
CAS Number: 64742-47-8
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/1/2010
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2009
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR200948T4NX05XDWV
Chemical Inventory Record Id: CVTR200948T4NX05WDWE
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/1/2010

Notes: Not reported

Validation: This facility passed all validation checks.

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29 **COLLIER** **TX TIER 2** **S108460013**
LAT 32.693028 LONG 94.247722 **N/A**
MARSHALL, TX 75670

TIER 2:
Facility Id/Name: FATR201248T4NX05GDRC/COLLIER
Reporting Year: 2012
Facility Country: USA
Facility Department: Not reported
Facility Date Modified: 5/10/2013

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S108460013**

Date Tier 2 Signed:	02/19/2013
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.693028
Longitude:	94.24772
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR200848T4NX05GDRC/COLLIER
Reporting Year:	2008
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/30/2009
Date Tier 2 Signed:	2/03/2009
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	True
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.693028
Longitude:	94.24772
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR200548T4NX05GDRC/COLLIER
Reporting Year:	2005
Facility Country:	USA
Facility Department:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S108460013**

Facility Date Modified:	2/27/2007
Date Tier 2 Signed:	Not reported
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	SELETA M. DAVIS
Latitude:	32.693028
Longitude:	94.247720
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	T
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported

Validation: This facility passed all validation checks.

Notes: Not reported
Validation: Not reported

Facility Info:

Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/17/2006
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/3/2009

Contact:

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company
Title:	Not reported
Modification Date:	3/9/2013

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S108460013**

Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Chemical Inventory:
Facility Id: FATR201248T4NX05GDRC
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR201248T4NX05NDT6
CAS Number: 8002-05-9
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S108460013**

Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/7/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201248T4NX05PDTN
Chemical Inventory Record Id:	CVTR201248T4NX05NDT6
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/7/2013

Facility Id:	FATR201248T4NX05GDRC
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR201248T4NX05QDU4
CAS Number:	107-21-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/7/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

COLLIER (Continued) **S108460013**

Record Key: CLTR201248T4NX05RDUK
Chemical Inventory Record Id: CVTR201248T4NX05QDU4
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/7/2013

Facility Id: FATR201248T4NX05GDRC
Chemical Name: METHANOL
Chemical Inv Record Id: CVTR201248T4NX05SDV1
CAS Number: 67-56-1
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 3/7/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201248T4NX05TDVH
Chemical Inventory Record Id: CVTR201248T4NX05SDV1
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/7/2013

Facility Id: FATR201248T4NX05GDRC
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR201248T4NX05WDWE
CAS Number: 64742-47-8
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

COLLIER (Continued) **S108460013**

EHS Substance:	Not reported
Last Modified:	3/7/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201248T4NX05XDWV
Chemical Inventory Record Id:	CVTR201248T4NX05WDWE
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/7/2013

Notes: Not reported
Validation: Not reported

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30 **JW HARRISON 1H** **TX TIER 2** **S110398930**
LAT 32.6920527 LONG 94.2085083 **N/A**
KARNACK, TX 75661

TIER 2:

Facility Id/Name:	FATR20126AVQLY03TDGQ/JW HARRISON 1H
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/10/2013
Date Tier 2 Signed:	02/19/2013
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.6920527
Longitude:	94.2085083
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S110398930**

Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported
Facility Id/Name:	FATR20096AVQLY03TDGQ/JW HARRISON 1H
Reporting Year:	2009
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/24/2010
Date Tier 2 Signed:	2/23/2010
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.6920527
Longitude:	94.2085083
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/5/2009
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/5/2009

Contact:

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company
Title:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

JW HARRISON 1H (Continued) **S110398930**

Modification Date: 3/9/2013

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 3/9/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 3/8/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 3/8/2013

Chemical Inventory:
Facility Id: FATR20126AVQLY03TDGQ
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR20126AVQLY03ZDJ3
CAS Number: 8002-05-9

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S110398930**

Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20126AVQLY040DK0
Chemical Inventory Record Id:	CVTR20126AVQLY03ZDJ3
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/8/2013

Facility Id:	FATR20126AVQLY03TDGQ
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20126AVQLY041DLU
CAS Number:	107-21-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S110398930**

Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20126AVQLY042DLU
Chemical Inventory Record Id: CVTR20126AVQLY041DLU
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/8/2013

Facility Id: FATR20126AVQLY03TDGQ
Chemical Name: METHANOL
Chemical Inv Record Id: CVTR20126AVQLY043DMA
CAS Number: 67-56-1
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 3/8/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20126AVQLY044DMS
Chemical Inventory Record Id: CVTR20126AVQLY043DMA
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/8/2013

Facility Id: FATR20126AVQLY03TDGQ
Chemical Name: Motor Oil
Chemical Inv Record Id: CVTR20126AVQLY045DMS
CAS Number: 64742-47-8
Chemical Same As Last Year: T
Acute Health Risks: T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S110398930**

Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20126AVQLY046DN7
Chemical Inventory Record Id:	CVTR20126AVQLY045DMS
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/8/2013

Notes: Not reported
Validation: Not reported

Facility Info:

Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/5/2009
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/5/2009

Contact:

Contact Email:	Not reported
Contact Mail Address:	4601 McCann Rd.
Contact City/State/Zip:	Longview, TX 75605
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Chinn Exploration Company
Title:	Not reported
Modification Date:	3/14/2010

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S110398930**

Contact:
- Contact Email: Not reported
- Contact Mail Address: Not reported
- Contact City/State/Zip: Not reported
- Contact Mail Country: USA
- Contact Type 1: Emergency Contact
- Contact Name: KENNETH Doan
- Title: Production Foreman
- Modification Date: 3/14/2010

Contact:
- Contact Email: Not reported
- Contact Mail Address: Not reported
- Contact City/State/Zip: Not reported
- Contact Mail Country: USA
- Contact Type 1: Emergency Contact
- Contact Name: JERRY HAMILTON
- Title: MANAGER
- Modification Date: 3/1/2010

Chemical Inventory:
- Facility Id: FATR20096AVQLY03TDGQ
- Chemical Name: CONDENSATE PL
- Chemical Inv Record Id: CVTR20096AVQLY03ZDJ3
- CAS Number: 8002-05-9
- Chemical Same As Last Year: T
- Acute Health Risks: T
- Average Daily Amount: 100,000 - 999,999 pounds
- Max Daily Amount: 100,000 - 999,999 pounds
- Max Amount In Largest Container: Not reported
- Chronic Health Risks: Not reported
- EHS Substance: Not reported
- Last Modified: 3/1/2010
- Days On Site: 365
- Fire Hazard: T
- Gas: Not reported
- Liquid: T
- Mixture Form: T
- Sudden Release Of Pressure Haz: T
- Pure Form: Not reported
- Reactive Hazard: Not reported
- Solid: Not reported
- Trade Secret: Not reported
- Contact Label: Not reported
- Label Code: TX2009
- Trade Secret: Not reported

Chemical Inventory Location:
- Record Key: CLTR20096AVQLY040DK0
- Chemical Inventory Record Id: CVTR20096AVQLY03ZDJ3
- Amt Of Sub Stored Or Transported: Not reported
- Amount Units: pounds
- Type Of Storage: Above ground tank
- Number Code/Storage Pressure: 1

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S110398930**

Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT THE FACILITY
Last Modified: 3/1/2010

Facility Id: FATR20096AVQLY03TDGQ
Chemical Name: GLYCOL
Chemical Inv Record Id: CVTR20096AVQLY041DLU
CAS Number: 107-21-1
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/1/2010
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: T
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2009
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20096AVQLY042DLU
Chemical Inventory Record Id: CVTR20096AVQLY041DLU
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/1/2010

Facility Id: FATR20096AVQLY03TDGQ
Chemical Name: METHANOL
Chemical Inv Record Id: CVTR20096AVQLY043DMA
CAS Number: 67-56-1
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 3/1/2010
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S110398930**

Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20096AVQLY044DMS
Chemical Inventory Record Id:	CVTR20096AVQLY043DMA
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/1/2010

Facility Id:	FATR20096AVQLY03TDGQ
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20096AVQLY045DMS
CAS Number:	64742-47-8
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/1/2010
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20096AVQLY046DN7
Chemical Inventory Record Id:	CVTR20096AVQLY045DMS
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S110398930**

Last Modified: 3/1/2010

Notes: Not reported

Validation: This facility passed all validation checks.

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30 **JW HARRISON 1H** **TX TIER 2** **S109710573**
LAT 32.6920527 LONG 94.2085083 **N/A**
KARNACK, TX 75661

TIER 2:

Facility Id/Name:	FATR20116AVQLY03TDGQ/JW HARRISON 1H
Reporting Year:	2011
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/16/2012
Date Tier 2 Signed:	02/21/2012
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.6920527
Longitude:	94.2085083
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20106AVQLY03TDGQ/JW HARRISON 1H
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	02/21/2011
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.6920527

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S109710573**

Longitude:	94.2085083
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR20086AVQLY03TDGQ/JW HARRISON 1H
Reporting Year:	2008
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/30/2009
Date Tier 2 Signed:	2/05/2009
Mailing Address:	Not reported
Mailing City/State/Country:	Not reported
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Phillip White
Latitude:	32.6920527
Longitude:	94.2085083
Lat/Long Location Desc:	TB-Tank Battery
Lat/Long Method:	G4 - GPS (Precise Positioning Service)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/5/2009
Id:	21111
Id Type:	NAICS
Description:	Oil and Gas Extraction
Last Modified:	2/5/2009

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Longview, TX

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S109710573**

Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 4/3/2011

Contact:
Contact Email: Not reported
Contact Mail Address: P.O. BOX 1714
Contact City/State/Zip: MIDLAND, TX 79702-1714
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: WAGNER & BROWN
Title: Not reported
Modification Date: 4/3/2011

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 4/3/2011

Chemical Inventory:
Facility Id: FATR20106AVQLY03TDGQ
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR20106AVQLY03ZDJ3
CAS Number: 8002-05-9
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/9/2011
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S109710573**

Chemical Inventory Location:

Record Key:	CLTR20106AVQLY040DK0
Chemical Inventory Record Id:	CVTR20106AVQLY03ZDJ3
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT THE FACILITY
Last Modified:	3/9/2011

Facility Id:	FATR20106AVQLY03TDGQ
Chemical Name:	GLYCOL
Chemical Inv Record Id:	CVTR20106AVQLY041DLU
CAS Number:	107-21-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20106AVQLY042DLU
Chemical Inventory Record Id:	CVTR20106AVQLY041DLU
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011

Facility Id:	FATR20106AVQLY03TDGQ
Chemical Name:	METHANOL
Chemical Inv Record Id:	CVTR20106AVQLY043DMA
CAS Number:	67-56-1
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S109710573**

Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20106AVQLY044DMS
Chemical Inventory Record Id:	CVTR20106AVQLY043DMA
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	3/9/2011

Facility Id:	FATR20106AVQLY03TDGQ
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20106AVQLY045DMS
CAS Number:	64742-47-8
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S109710573**

Record Key: CLTR20106AVQLY046DN7
Chemical Inventory Record Id: CVTR20106AVQLY045DMS
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 3/9/2011

Notes: Not reported
Validation: Not reported

Facility Info:
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/5/2009
Id: 21111
Id Type: NAICS
Description: Oil and Gas Extraction
Last Modified: 2/5/2009

Contact:
Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact Email: Not reported
Contact Mail Address: 4601 McCann Rd.
Contact City/State/Zip: Longview, TX 75605
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Chinn Exploration Company
Title: Not reported
Modification Date: 2/29/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S109710573**

Contact City/State/Zip: Longview, TX
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: David Tadlock
Title: MANAGER
Modification Date: 2/24/2012

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kirk Weaver
Title: Pumper
Modification Date: 2/24/2012

Chemical Inventory:
Facility Id: FATR20116AVQLY03TDGQ
Chemical Name: CONDENSATE PL
Chemical Inv Record Id: CVTR20116AVQLY03ZDJ3
CAS Number: 8002-05-9
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 2/24/2012
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2011
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20116AVQLY040DK0

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S109710573**

Chemical Inventory Record Id: CVTR20116AVQLY03ZDJ3
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT THE FACILITY
Last Modified: 2/24/2012

Facility Id: FATR20116AVQLY03TDGQ
Chemical Name: GLYCOL
Chemical Inv Record Id: CVTR20116AVQLY041DLU
CAS Number: 107-21-1
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 2/24/2012
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: T
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2011
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20116AVQLY042DLU
Chemical Inventory Record Id: CVTR20116AVQLY041DLU
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 2/24/2012

Facility Id: FATR20116AVQLY03TDGQ
Chemical Name: METHANOL
Chemical Inv Record Id: CVTR20116AVQLY043DMA
CAS Number: 67-56-1
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 100 - 999 pounds
Max Daily Amount: 100 - 999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S109710573**

Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20116AVQLY044DMS
Chemical Inventory Record Id:	CVTR20116AVQLY043DMA
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	THROUGHOUT FACILITY
Last Modified:	2/24/2012

Facility Id:	FATR20116AVQLY03TDGQ
Chemical Name:	Motor Oil
Chemical Inv Record Id:	CVTR20116AVQLY045DMS
CAS Number:	64742-47-8
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	2/24/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20116AVQLY046DN7
Chemical Inventory Record Id:	CVTR20116AVQLY045DMS
Amt Of Sub Stored Or Transported:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

JW HARRISON 1H (Continued) **S109710573**

Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: THROUGHOUT FACILITY
Last Modified: 2/24/2012

Notes: Not reported
Validation: Not reported

Notes: Not reported

Validation: This facility passed all validation checks.

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31 **HAGGERTY CREEK** **TX TIER 2** **S109708710**
N/A

KARNACK, TX 75661

TIER 2:
Facility Id/Name: FATR201253TSZG038B9Y/HAGGERTY CREEK
Reporting Year: 2012
Facility Country: USA
Facility Department: Not reported
Facility Date Modified: 5/10/2013
Date Tier 2 Signed: 2-25-2013
Mailing Address: 2909 South Washington Ave
Mailing City/State/Country: Marshall, TX USA
Dikes/Other Safeguard Meas Emp: Not reported
All Chemicals Same As Last Year: True
State Fees Total: Not reported
Number Of Employess On Site: 0
Site Map: Not reported
Fire District: Harrison ESD3
Submitted By: Paul Griesedieck, HSE Mgr
Latitude: 32.689167
Longitude: 94.248611
Lat/Long Location Desc: ST - Storage Tank
Lat/Long Method: G3 - GPS (Differential)
Site Coordinate Abbr Submitted: Not reported
Number Of Emp. Required: Not reported
Fail Valid: Not reported
Site Coordinate Abbr Submitted: Not reported
Mail Address: Not reported
Mail City: Not reported
Mail State Req.: Not reported
Fire District: Not reported
Additional Mail Addr: Not reported

Facility Id/Name: FATR201153TSZG038B9Y/HAGGERTY CREEK
Reporting Year: 2011
Facility Country: USA
Facility Department: Not reported
Facility Date Modified: 5/16/2012
Date Tier 2 Signed: 2-13-2012
Mailing Address: 2909 South Washington Ave

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK (Continued) **S109708710**

Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	True
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Harrison ESD3
Submitted By:	Paul Griesedieck, HSE Manager
Latitude:	32.689167
Longitude:	94.248611
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR201053TSZG038B9Y/HAGGERTY CREEK
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	2-7-2011
Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	True
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Paul Griesedieck
Latitude:	32.689167
Longitude:	94.248611
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR200853TSZG038B9Y/HAGGERTY CREEK
Reporting Year:	2008
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/30/2009
Date Tier 2 Signed:	2-26-2009

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK (Continued) **S109708710**

Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Paul Griesedieck, HSE Mgr
Latitude:	32.689167
Longitude:	94.248611
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	211111
Id Type:	NAICS
Description:	Crude Petroleum and Natural Gas Extraction
Last Modified:	2/25/2009
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	5/12/2007
Id:	00-790-9948
Id Type:	Dun & Bradstreet
Description:	Forest Oil Corporation
Last Modified:	5/12/2007

Contact:

Contact Email:	PBGriesedieck@forestoil.com
Contact Mail Address:	29003 Morton Road
Contact City/State/Zip:	Katy, TX 77493
Contact Mail Country:	USA
Contact Type 1:	Regulatory Point of Contact
Contact Name:	Paul Griesedieck
Title:	EH&S Manager
Modification Date:	5/10/2007

Contact Email:	PBGriesedieck@forestoil.com
Contact Mail Address:	29003 Morton Road
Contact City/State/Zip:	Katy, TX 77493
Contact Mail Country:	USA
Contact Type 1:	Regulatory Point of Contact
Contact Name:	Paul Griesedieck
Title:	EH&S Manager
Modification Date:	5/10/2007

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK (Continued) **S109708710**

Contact:
Contact Email: GCBobbett@forestoil.com
Contact Mail Address: 2909 South Washington Ave
Contact City/State/Zip: Marshall, TX 75672
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: Greg Bobbett
Title: Foreman
Modification Date: 3/2/2012

Contact Email: GCBobbett@forestoil.com
Contact Mail Address: 2909 South Washington Ave
Contact City/State/Zip: Marshall, TX 75672
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: Greg Bobbett
Title: Foreman
Modification Date: 3/2/2012

Contact:
Contact Email: Not reported
Contact Mail Address: 2909 South Washington
Contact City/State/Zip: Marshall, TX 75672
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Forest Oil Corporation
Title: Not reported
Modification Date: 3/2/2012

Contact Email: Not reported
Contact Mail Address: 2909 South Washington
Contact City/State/Zip: Marshall, TX 75672
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Forest Oil Corporation
Title: Not reported
Modification Date: 3/2/2012

Chemical Inventory:
Facility Id: FATR201153TSZG038B9Y
Chemical Name: Crude Oil
Chemical Inv Record Id: CVTR201153TT5Y03HXPN
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 1,000,000 - 9,999,999 pounds
Max Daily Amount: 1,000,000 - 9,999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 3/2/2012
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK (Continued) **S109708710**

Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2011
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201153TT6903J7MT
Chemical Inventory Record Id: CVTR201153TT5Y03HXPN
Amt Of Sub Stored Or Transported: Not reported
Amount Units: barrels
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Tank Battery
Last Modified: 3/2/2012

Notes: Not reported
Validation: Not reported

Facility Info:
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 5/12/2007
Id: 211111
Id Type: NAICS
Description: Crude Petroleum and Natural Gas Extraction
Last Modified: 2/25/2009
Id: 00-790-9948
Id Type: Dun & Bradstreet
Description: Forest Oil Corporation
Last Modified: 5/12/2007

Contact:
Contact Email: PBGriesedieck@forestoil.com
Contact Mail Address: 29003 Morton Road
Contact City/State/Zip: Katy, TX 77493
Contact Mail Country: USA
Contact Type 1: Regulatory Point of Contact
Contact Name: Paul Griesedieck
Title: EH&S Manager
Modification Date: 5/10/2007

Contact:
Contact Email: GCBobbett@forestoil.com
Contact Mail Address: 2909 South Washington Ave
Contact City/State/Zip: Marshall, TX 75672
Contact Mail Country: USA

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK (Continued) **S109708710**

Contact Type 1: Emergency Contact
Contact Name: Greg Bobbett
Title: Foreman
Modification Date: 4/4/2011

Contact:
Contact Email: Not reported
Contact Mail Address: 2909 South Washington
Contact City/State/Zip: Marshall, TX 75672
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Forest Oil Corporation
Title: Not reported
Modification Date: 4/4/2011

Chemical Inventory:
Facility Id: FATR201053TSZG038B9Y
Chemical Name: Crude Oil
Chemical Inv Record Id: CVTR201053TT5Y03HXPN
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 1,000,000 - 9,999,999 pounds
Max Daily Amount: 1,000,000 - 9,999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 3/15/2011
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2010
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201053TT6903J7MT
Chemical Inventory Record Id: CVTR201053TT5Y03HXPN
Amt Of Sub Stored Or Transported: Not reported
Amount Units: barrels
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Tank Battery
Last Modified: 3/15/2011

Notes: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK (Continued) **S109708710**

Validation: Not reported

Notes: Not reported

Validation: This facility passed all validation checks.

Facility Info:
Id: 211111
Id Type: NAICS
Description: Crude Petroleum and Natural Gas Extraction
Last Modified: 2/25/2009
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 5/12/2007
Id: 00-790-9948
Id Type: Dun & Bradstreet
Description: Forest Oil Corporation
Last Modified: 5/12/2007

Contact:
Contact Email: PBGriesedieck@forestoil.com
Contact Mail Address: 29003 Morton Road
Contact City/State/Zip: Katy, TX 77493
Contact Mail Country: USA
Contact Type 1: Regulatory Point of Contact
Contact Name: Paul Griesedieck
Title: EH&S Manager
Modification Date: 5/10/2007

Contact Email: PBGriesedieck@forestoil.com
Contact Mail Address: 29003 Morton Road
Contact City/State/Zip: Katy, TX 77493
Contact Mail Country: USA
Contact Type 1: Regulatory Point of Contact
Contact Name: Paul Griesedieck
Title: EH&S Manager
Modification Date: 5/10/2007

Contact:
Contact Email: GCBobbett@forestoil.com
Contact Mail Address: 2909 South Washington Ave
Contact City/State/Zip: Marshall, TX 75672
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: Greg Bobbett
Title: Foreman
Modification Date: 3/9/2013

Contact Email: GCBobbett@forestoil.com
Contact Mail Address: 2909 South Washington Ave
Contact City/State/Zip: Marshall, TX 75672
Contact Mail Country: USA
Contact Type 1: Emergency Contact

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK (Continued) **S109708710**

Contact Name: Greg Bobbett
Title: Foreman
Modification Date: 3/9/2013

Contact:
Contact Email: Not reported
Contact Mail Address: 2909 South Washington
Contact City/State/Zip: Marshall, TX 75672
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Forest Oil Corporation
Title: Not reported
Modification Date: 3/9/2013

Contact Email: Not reported
Contact Mail Address: 2909 South Washington
Contact City/State/Zip: Marshall, TX 75672
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Forest Oil Corporation
Title: Not reported
Modification Date: 3/9/2013

Chemical Inventory:
Facility Id: FATR201253TSZG038B9Y
Chemical Name: Crude Oil
Chemical Inv Record Id: CVTR201253TT5Y03HXPN
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 1,000,000 - 9,999,999 pounds
Max Daily Amount: 1,000,000 - 9,999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 3/8/2013
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201253TT6903J7MT
Chemical Inventory Record Id: CVTR201253TT5Y03HXPN
Amt Of Sub Stored Or Transported: Not reported
Amount Units: barrels

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

HAGGERTY CREEK (Continued) **S109708710**

Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Tank Battery
Last Modified: 3/8/2013

Notes: Not reported
Validation: Not reported

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31 **HAGGERTY CREEK** **TX TIER 2** **S110395494**
N/A

KARNACK, TX 75661

TIER 2:
Facility Id/Name: FATR200953TSZG038B9Y/HAGGERTY CREEK
Reporting Year: 2009
Facility Country: USA
Facility Department: Not reported
Facility Date Modified: 5/24/2010
Date Tier 2 Signed: 3-1-2010
Mailing Address: 2909 South Washington Ave
Mailing City/State/Country: Marshall, TX USA
Dikes/Other Safeguard Meas Emp: Not reported
All Chemicals Same As Last Year: True
State Fees Total: Not reported
Number Of Employess On Site: 0
Site Map: Not reported
Fire District: Not reported
Submitted By: Paul Griesedieck, HSE Manager
Latitude: 32.689167
Longitude: 94.248611
Lat/Long Location Desc: ST - Storage Tank
Lat/Long Method: G3 - GPS (Differential)
Site Coordinate Abbr Submitted: Not reported
Number Of Emp. Required: Not reported
Fail Valid: Not reported
Site Coordinate Abbr Submitted: Not reported
Mail Address: Not reported
Mail City: Not reported
Mail State Req.: Not reported
Fire District: Not reported
Additional Mail Addr: Not reported

Facility Info:
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 5/12/2007
Id: 211111
Id Type: NAICS
Description: Crude Petroleum and Natural Gas Extraction
Last Modified: 2/25/2009
Id: 00-790-9948
Id Type: Dun & Bradstreet
Description: Forest Oil Corporation

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK (Continued) **S110395494**

Last Modified: 5/12/2007

Contact:
Contact Email: Not reported
Contact Mail Address: 2909 South Washington Ave
Contact City/State/Zip: Marshall, TX 75672
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: Greg Bobbett
Title: Foreman
Modification Date: 3/14/2010

Contact:
Contact Email: Not reported
Contact Mail Address: 2909 South Washington
Contact City/State/Zip: Marshall, TX 75672
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Forest Oil Corporation
Title: Not reported
Modification Date: 3/14/2010

Contact:
Contact Email: Not reported
Contact Mail Address: 29003 Morton Road
Contact City/State/Zip: Katy, TX 77493
Contact Mail Country: USA
Contact Type 1: Regulatory Point of Contact
Contact Name: Paul Griesedieck
Title: EH&S Manager
Modification Date: 5/10/2007

Chemical Inventory:
Facility Id: FATR200953TSZG038B9Y
Chemical Name: Crude Oil
Chemical Inv Record Id: CVTR200953TT5Y03HXPN
CAS Number: 8002-05-9
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 1,000,000 - 9,999,999 pounds
Max Daily Amount: 1,000,000 - 9,999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 3/5/2010
Days On Site: 365
Fire Hazard: T
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK (Continued) **S110395494**

Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2009
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR200953TT6903J7MT
Chemical Inventory Record Id: CVTR200953TT5Y03HXPN
Amt Of Sub Stored Or Transported: Not reported
Amount Units: barrels
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Tank Battery
Last Modified: 3/5/2010

Facility Id: FATR200953TSZG038B9Y
Chemical Name: Saltwater
Chemical Inv Record Id: CVTR20095MXEHD02XU8C
CAS Number: Not reported
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 1,000,000 - 9,999,999 pounds
Max Daily Amount: 1,000,000 - 9,999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/5/2010
Days On Site: 365
Fire Hazard: Not reported
Gas: Not reported
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: Not reported
Pure Form: Not reported
Reactive Hazard: Not reported
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2009
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR20095MXEJ102YD7Z
Chemical Inventory Record Id: CVTR20095MXEHD02XU8C
Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Tank Battery
Last Modified: 3/5/2010

Notes: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK (Continued) **S110395494**

Validation: This facility passed all validation checks.

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31 **BEATRICE KEY WELL NO. 1** **TX TIER 2** **S109174619** **N/A**

KARNACK, TX 75661

TIER 2:

Facility Id/Name:	FATR200753TSZG038B9Y/BEATRICE KEY WELL NO. 1
Reporting Year:	2007
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	8/5/2008
Date Tier 2 Signed:	2-13-2008
Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Karncack VFD
Submitted By:	Paul Griesedieck
Latitude:	32.689167
Longitude:	94.248611
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported
Validation: Not reported

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32 **T.J. TAYLOR WELL NO. 5** **TX TIER 2** **S109198281** **N/A**

KARNACK, TX 75661

TIER 2:

Facility Id/Name:	FATR200753TV3Y0500YT/T.J. TAYLOR WELL NO. 5
Reporting Year:	2007
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	8/5/2008
Date Tier 2 Signed:	2-13-2008
Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

T.J. TAYLOR WELL NO. 5 (Continued) **S109198281**

All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Karnack VFD
Submitted By:	Paul Griesedieck
Latitude:	32.688611
Longitude:	94.201389
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported
Validation: Not reported

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33 **THE RUN-IN** **TX UST U003420470**
17571 STATE HIGHWAY 43 N **TX ENF N/A**
KARNACK, TX 75661

UST:

Name:	THE RUN-IN
Address:	17571 STATE HIGHWAY 43 N
City,State,Zip:	KARNACK, TX 756613925
AI Number:	69147
Facility Type:	RETAIL
Facility Begin Date:	09/05/1996
Facility Status:	ACTIVE
Additional ID:	419402962003161
Facility Exempt Status:	N
Records Off-Site:	No
UST Financial Assurance Required:	Yes
Number Of Active UST:	1
Site Location Description:	Not reported
Site Location (Nearest City Name):	Not reported
Site Location (County Name):	HARRISON
Site Location (Tceq Region):	5
Site Location (Location Zip):	75661
Contact Name/Title:	SOPEAK KHUON,OWNER
Contact Organization Name:	THE RUN-IN
Contact Mailing Address1:	Not reported
Contact Mailing Address2:	Not reported
Contact Mailing City/State/Zip:	Not reported
Contact Telephone:	9036793444
Facility Contact Address Deliverable:	Not reported
Contact Fax Number:	Not reported
Contact Email Address:	SOPEAKKHUON@YAHOO.COM
Signature Date On Earliest Reg Form:	07/22/2020
Signature Name/Title On Earliest Reg Form:	SOPEAK KHUON,OWNER

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE RUN-IN (Continued) **U003420470**

Application Received Date On Earliest Reg Form:	07/24/2020
Signature Role On Earliest Reg Form:	OWNER
Signature Company On Earliest Reg Form:	Not reported
Enforcement Action:	No
Facility Not Inspectable:	No

Operator:

Princ ID:	403304512011235
Additional ID:	419402962003161
Ai Number:	69147
Operator CN:	CN603949959
Operator Name:	SOPEAK KHUON
Operator Effective Begin Date:	08/01/2011
Operator Type:	IN
Operator Role:	OWNOPRCON
Contact Name:	SOPEAK KHUON/
Contact Organization Name:	KHUON SOPEAK
Contact Mailing Address (Delivery):	17571 STATE HIGHWAY 43 N STE 3
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City/State/Zip:	KARNACK TX 75661-3925
Contact Phone Country Code:	1
Contact Phone Area Code:	903
Contact Phone Number:	6793444
Contact Phone Extension:	0
Contact Fax Country Code:	Not reported
Contact Fax Area Code:	Not reported
Contact Fax Number:	Not reported
Contact Fax Extension:	Not reported
Contact Email Address:	SOPEAKKHUON@YAHOO.COM
Contact Address Deliverable:	Not reported

Owner:

Owner CN:	CN603949959
Owner Last Name:	KHUON
Owner First Name:	SOPEAK
Owner Middle Name:	Not reported
Owner Type:	IN
Contact Mailing Address (Delivery):	17571 STATE HIGHWAY 43 N STE 3
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City:	KARNACK
Contact Mailing State:	TX
Contact Mailing Zip:	75661
Contact Mailing Zip5:	3925
Contact Phone Number/Ext:	1 903 6793444/0
Contact Fax Country Code:	Not reported
Contact Fax Number/Ext:	/
Contact Email Address:	SOPEAKKHUON@YAHOO.COM
Contact Address Deliverable:	Not reported
Princ ID:	403304512011235
Additional ID:	419402962003161
AI Number:	69147
Owner Effective Begin Date:	08/01/2011
State Tax ID:	Not reported
Contact Role:	OWNOPRCON
Contact Name/Title:	SOPEAK KHUON/
Contact Organization Name:	KHUON SOPEAK

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE RUN-IN (Continued) **U003420470**

Self Certification:

Self Cert ID:	104809
Cert ID:	340008
AI Number:	69147
Self Certification Date:	07/22/2020
Signature Name/Title:	SOPEAK KHUON OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	07/31/2021
Reporting Method:	P
Tank Corrosion Protection Compliance:	Y
Piping Corrosion Protection Compliance:	Y
Compartment Release Detection Compliance:	Y
Piping Release Detection Compliance:	Y
Spill Prevention/Overfill Compliance:	Y

Self Cert ID:	104809
Cert ID:	323919
AI Number:	69147
Self Certification Date:	08/01/2019
Signature Name/Title:	SOPEAK KHUON OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	07/31/2020
Reporting Method:	P
Tank Corrosion Protection Compliance:	Y
Piping Corrosion Protection Compliance:	Y
Compartment Release Detection Compliance:	Y
Piping Release Detection Compliance:	Y
Spill Prevention/Overfill Compliance:	Y

Self Cert ID:	104809
Cert ID:	307284
AI Number:	69147
Self Certification Date:	07/20/2018
Signature Name/Title:	SOPEAK KHUON OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	07/31/2019
Reporting Method:	P
Tank Corrosion Protection Compliance:	Y
Piping Corrosion Protection Compliance:	Y
Compartment Release Detection Compliance:	Y
Piping Release Detection Compliance:	Y
Spill Prevention/Overfill Compliance:	Y

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE RUN-IN (Continued) **U003420470**

Self Cert ID:	104809
Cert ID:	289683
AI Number:	69147
Self Certification Date:	07/27/2017
Signature Name/Title:	SOPEAK KHUON OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	07/31/2018
Reporting Method:	P
Tank Corrosion Protection Compliance:	Y
Piping Corrosion Protection Compliance:	Y
Compartment Release Detection Compliance:	Y
Piping Release Detection Compliance:	Y
Spill Prevention/Overfill Compliance:	Y

Self Cert ID:	104809
Cert ID:	273981
AI Number:	69147
Self Certification Date:	08/21/2016
Signature Name/Title:	SOPEAK KHUON OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	07/31/2017
Reporting Method:	P
Tank Corrosion Protection Compliance:	Y
Piping Corrosion Protection Compliance:	Y
Compartment Release Detection Compliance:	Y
Piping Release Detection Compliance:	Y
Spill Prevention/Overfill Compliance:	Y

Self Cert ID:	104809
Cert ID:	259607
AI Number:	69147
Self Certification Date:	09/22/2015
Signature Name/Title:	SOPEAK KHUON OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	07/31/2016
Reporting Method:	P
Tank Corrosion Protection Compliance:	Y
Piping Corrosion Protection Compliance:	Y
Compartment Release Detection Compliance:	Y
Piping Release Detection Compliance:	Y
Spill Prevention/Overfill Compliance:	Y

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE RUN-IN (Continued) **U003420470**

Self Cert ID:	104809
Cert ID:	173239
AI Number:	69147
Self Certification Date:	08/20/2012
Signature Name/Title:	SOPEAK KHUON OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	07/31/2013
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	104809
Cert ID:	173238
AI Number:	69147
Self Certification Date:	08/16/2011
Signature Name/Title:	SOPEAK KHUON OWNER
Signature Type Role:	OWNER
Filing Status:	INITIAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	07/31/2012
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	104809
Cert ID:	173237
AI Number:	69147
Self Certification Date:	08/10/2010
Signature Name/Title:	BUNNARA SAUR OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	09/30/2011
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE RUN-IN (Continued) **U003420470**

Self Cert ID:	104809
Cert ID:	173236
AI Number:	69147
Self Certification Date:	08/25/2009
Signature Name/Title:	BUNNARA SAUR OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	09/30/2010
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	104809
Cert ID:	173235
AI Number:	69147
Self Certification Date:	07/25/2008
Signature Name/Title:	BUNNARA SAUR OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	09/30/2009
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	104809
Cert ID:	173234
AI Number:	69147
Self Certification Date:	08/13/2007
Signature Name/Title:	BUNNARA SAUR
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	09/30/2008
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE RUN-IN (Continued) **U003420470**

Self Cert ID:	104809
Cert ID:	173233
AI Number:	69147
Self Certification Date:	09/01/2006
Signature Name/Title:	BUNNARA SAUR OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	09/30/2007
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	104809
Cert ID:	173232
AI Number:	69147
Self Certification Date:	04/20/2006
Signature Name/Title:	BUNNARA SAUR OWNER
Signature Type Role:	OWNER
Filing Status:	INITIAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	09/30/2006
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	104809
Cert ID:	173231
AI Number:	69147
Self Certification Date:	05/13/2005
Signature Name/Title:	SHARON LAMBETH OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2006
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE RUN-IN (Continued) **U003420470**

Self Cert ID:	104809
Cert ID:	173230
AI Number:	69147
Self Certification Date:	04/21/2004
Signature Name/Title:	SHARON LAMBETH OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2005
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	104809
Cert ID:	173229
AI Number:	69147
Self Certification Date:	05/06/2003
Signature Name/Title:	SHARON LAMBETH OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2004
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	104809
Cert ID:	173228
AI Number:	69147
Self Certification Date:	04/01/2002
Signature Name/Title:	SHARON LAMBETH OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2003
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE RUN-IN (Continued) **U003420470**

Self Cert ID:	104809
Cert ID:	173227
AI Number:	69147
Self Certification Date:	12/04/2000
Signature Name/Title:	SHARON LAMBETH OWNER
Signature Type Role:	OWNER
Filing Status:	INITIAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2002
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Tank:

Install Date:	09/05/1996
Tank Registration Date:	12/16/1996
Number of Compartments:	3
Tank Capacity:	12000
Tank Singlewall:	Y
Tank Doublewall:	N
Pipe Type:	S
UST ID:	182096
Facility ID:	104809
Ai Number:	69147
Tank Id:	1
Tank Status (Current):	IN USE
Tank Status Date:	09/05/1996
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	Y
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	N
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	Y
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	N
Piping Mat(Frp(Fiberglass Reinforced Plastic):	Y
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N

MAP FINDINGS

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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE RUN-IN (Continued) **U003420470**

Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	Y
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	Y
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	Y
Piping Corr Prot Compliance Flag:	Y
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	09/30/1996

Compartment Records:

Tank ID:	1
Tank Capacity:	6000
UST Comprt ID:	172045
UST ID:	182096
AI Number:	69147
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	Y
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	Y
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	Y
SOPE(Spill Cont/Bucket/Sump):	Y
SOPE(DelShut-Off Valve)):	Y
SOPE(FlowRestrictorValue:	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE RUN-IN (Continued) **U003420470**

SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	Y
Piping Release Detection Compliance Flag):	Y
Spill/OverfillPreventionCompliance Flag:	Y
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported
Tank ID:	1
Tank Capacity:	3000
UST Comprt ID:	172046
UST ID:	182096
AI Number:	69147
Compartment ID:	B
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	Y
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	Y
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	Y
SOPE(Spill Cont/Bucket/Sump):	Y
SOPE(DelShut-Off Valve)):	Y
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	Y
Piping Release Detection Compliance Flag):	Y
Spill/OverfillPreventionCompliance Flag:	Y
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported
Tank ID:	1
Tank Capacity:	3000
UST Comprt ID:	172047
UST ID:	182096

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE RUN-IN (Continued) **U003420470**

AI Number:	69147
Compartment ID:	C
Substance Stored1:	DIESEL
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	Y
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	Y
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	Y
SOPE(Spill Cont/Bucket/Sump):	Y
SOPE(DelShut-Off Valve)):	Y
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	Y
Piping Release Detection Compliance Flag):	Y
Spill/OverfillPreventionCompliance Flag:	Y
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

Construction Notification:

NOC ID:	16876
Facility ID:	104809
AI Number:	69147
Application Received Date:	01/24/2011
Scheduled Construction Date:	02/28/2011
UST Improvement:	Y
UST Installation:	N
UST Removal:	N
UST Repair:	N
UST Return To Service:	N
UST Replacement:	N
UST Abandonment:	N
UST Stage I:	N
AST Installation:	N
AST Stage I:	N
Historical Tracking Number:	NONE
Waiver Flag:	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE RUN-IN (Continued) **U003420470**

Late Filing Flag:	N
Form Received Date:	Not reported
Signature Date On Form:	Not reported
Signature Name On Form:	Not reported
Signature Company On Form:	Not reported
Signature Title On Form:	Not reported
Signature Role:	Not reported
Owner Name At Time Of Construction:	Not reported
Owner CN At Time Of Construction:	Not reported
Owner AR At Time Of Construction:	65769
General Desc Of Prop Construct:	INSTALL VAPOR MONITORING WELLS TO COMPLY WITH MONTHLY VAPOR RELEASE DETECTION FO R USTS AND ANCILLARY PIPING AND EQUIPMENT. TEXAS MONITOR WELL DRILLER #3041M AND #54366M

Contractor, Consultant and Installer:

Cont/Cons/Installer ID:	18208
UST ID:	Not reported
NOC ID:	16876
AI Number:	69147
Type Of Contact:	CONSULTANT
Contractor CRP Number Or Installer ILP Number:	Not reported
Company Name:	ACCENT ENVIRONMENTAL SERVICES INC
Representative Name:	DANIEL BREVAR RD
Mailing Address (Delivery):	PO BOX 3289
Mailing Address (Internal Delivery):	Not reported
Mailing City:	LUFKIN
Mailing State:	TX
Mailing Zip:	75903
Mailing Foreign Postal Code:	Not reported
Mailing County Code:	Not reported
Phone Number Country Code:	1
Phone Number Area Code:	936
Phone Number:	8532264
Phone Number Extension:	Not reported
Fax Number Country Code:	Not reported
Fax Number Area Code:	Not reported
Fax Number:	Not reported
Email Address:	Not reported

Cont/Cons/Installer ID:	32558
UST ID:	182096
NOC ID:	Not reported
AI Number:	69147
Type Of Contact:	CONTRACTOR
Contractor CRP Number Or Installer ILP Number:	CRP000284
Company Name:	JB-H SERVICES & EQUIPMENT
Representative Name:	Not reported
Mailing Address (Delivery):	Not reported
Mailing Address (Internal Delivery):	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing Foreign Postal Code:	Not reported
Mailing County Code:	Not reported
Phone Number Country Code:	Not reported
Phone Number Area Code:	Not reported
Phone Number:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE RUN-IN (Continued) **U003420470**

Phone Number Extension:	Not reported
Fax Number Country Code:	Not reported
Fax Number Area Code:	Not reported
Fax Number:	Not reported
Email Address:	Not reported
Cont/Cons/Installer ID:	47724
UST ID:	182096
NOC ID:	Not reported
AI Number:	69147
Type Of Contact:	INSTALLER
Contractor CRP Number Or Installer ILP Number:	ILP000813
Company Name:	Not reported
Representative Name:	ROBERT RACKLE EY
Mailing Address (Delivery):	Not reported
Mailing Address (Internal Delivery):	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing Foreign Postal Code:	Not reported
Mailing County Code:	Not reported
Phone Number Country Code:	Not reported
Phone Number Area Code:	Not reported
Phone Number:	Not reported
Phone Number Extension:	Not reported
Fax Number Country Code:	Not reported
Fax Number Area Code:	Not reported
Fax Number:	Not reported
Email Address:	Not reported

Facility Billing Contacts:

Contact Organization Name:	KHUON SOPEAK
Contact Mailing Address (Delivery):	17571 STATE HIGHWAY 43 N STE 3
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City/State/Zip:	KARNACK, TX 75661 3925
Phone Number/Ext:	903 6793444/0
Contact Fax Number/Ext:	/
Contact Email Address:	SOPEAKKHUON@YAHOO.COM
Contact Address Deliverable:	Y
Facility ID:	104809
Additional ID:	419402962003161
Princ ID:	403304512011235
AI Number:	69147
Facility Name:	THE RUN-IN
AR Number:	72477
AR UST Number Suffix:	Not reported
AR AST Number Suffix:	U
Contact Name/Title:	SOPEAK KHUON/

ENFORCEMENT:

Name:	THE RUN-IN
Address:	17571 STATE HIGHWAY 43 N
City,State,Zip:	KARNACK, TX 75661
Unique TCEQ Ref # Of Customer:	CN603949959
Unique TCEQ Ref # Of Reg. Entity:	RN103163762

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE RUN-IN (Continued) **U003420470**

Contact Person For The Reg. Entity:	SOPEAK KHUON
Owner/operator Of A Regulated Entity:	30 TAC Chapter 334, SubChapter C
Regulated Entity Associated With An NOV:	KHUON, SOPEAK
Org Title Of The Contact Person:	Not reported
Investigation Num:	1035337
Status Code:	RESOLVED
Status Date:	11/14/2012
Violation Tracking Num:	164,407,632,012,270.00
Physical Location:	CUSTOMER ADDRESS 994 MA CR 3106 JEFFERSON TX 75657
Nearest City:	Not reported
State Location:	TX
Zip Location:	75661
Violation Date:	2013-08-09 00:00:00
Violation Category:	Category A violations require automatic initiation of formal enforcement action when discovered. The Areas of Concern criteria do not apply to Category A violations.
Nov Id:	Not reported
Role Code:	Not reported
Date Notice Of Violation Issued:	Not reported
Description 1:	Failed to monitor the UST for releases at a frequency of at least once every month (not to exceed 35 days between each monitoring)
Description 2:	The Executive Director recognizes that the Respondent implemented vapor monitoring as a release detectioin method for the UST on September 11, 2012.
Category Of The NOV:	Not reported
Method Of Notice Issuance:	Not reported
TCEQ Prog Area Monitoring Violation:	WASTE
TCEQ Rule # Cited For The Violation:	Not reported
Status Of The NOV:	DAPPROVED
Investigation:	Not reported
Investigation ID:	482400242012270
Regulated Entity ID:	415402962003161
Date of Notice Enforcement:	11/14/2012
Rejected:	NO
Type Code:	ADMINORDER
Date Resolved:	08/08/2013
Assessed Amount:	3881
Deferred Amount:	776
Payable Amount:	3105
Supplemental Env Project Offset Amount:	Not reported

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33 **WEAVER PIT** **FINDS** **1012284179**
EAST END OF LISA LANE APPROXIMATELY ONE HALF .55 M **N/A**
KARNACK, TX 75661

FINDS:
Registry ID: 110040159752

Click Here:

Environmental Interest/Information System:
Texas Commission on Environmental Quality - Agency Central Registry (TX-TCEQ ACR) is a computer application that allows the Texas Commission on Environmental Quality (TCEQ) to use a single, centralized area to record common information, such as the company names, addresses, and telephone numbers of those the TCEQ regulates. It also contains additional IDs (permits, registrations, authorizations, etc) and their status.

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

WEAVER PIT (Continued) **1012284179**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

33 MARION COUNTY FACILITIES **TX TIER 2** **S110401975**
N/A

MARSHALL, TX 75670

TIER 2:

Facility Id/Name:	FATR20096C3XTP01MPDG/MARION COUNTY FACILITIES
Reporting Year:	2009
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/24/2010
Date Tier 2 Signed:	2/5/2010
Mailing Address:	1415 Louisiana, Suite 1600
Mailing City/State/Country:	Houston, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	True
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Deborah J. Carr - Consultant
Latitude:	32.6862
Longitude:	-94.1783
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	211111
Id Type:	NAICS
Description:	Crude Petroleum and Natural Gas Extraction
Last Modified:	2/24/2009
Id:	Not reported
Id Type:	Dun & Bradstreet
Description:	Not reported
Last Modified:	2/24/2009

Contact:

Contact Email:	Not reported
Contact Mail Address:	1415 Louisiana Street, Suite 1600
Contact City/State/Zip:	Houston, TX 77002
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	NFR Energy
Title:	Not reported
Modification Date:	2/5/2010

MARION COUNTY FACILITIES (Continued) **S110401975**

Contact:

Contact Email:	Not reported
Contact Mail Address:	1415 Louisiana, Suite 1600
Contact City/State/Zip:	Houston, TX 77002
Contact Mail Country:	USA
Contact Type 1:	Regulatory Point of Contact
Contact Name:	Dianne Sumrall
Title:	Manager-Regulatory/Production Accounting
Modification Date:	2/24/2009

Contact:

Contact Email:	Not reported
Contact Mail Address:	1415 Louisiana, Suite 1600
Contact City/State/Zip:	Houston, TX 77002
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	Cheryl Levesque
Title:	Vice President of Operations/Production
Modification Date:	2/5/2010

Chemical Inventory:

Facility Id:	FATR20096C3XTP01MPDG
Chemical Name:	Produced Hydrocarbons
Chemical Inv Record Id:	CVTR20096C414S01WHK3
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	2/5/2010
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR20096C415S01XD01
Chemical Inventory Record Id:	CVTR20096C414S01WHK3
Amt Of Sub Stored Or Transported:	400
Amount Units:	barrels
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

MARION COUNTY FACILITIES (Continued) **S110401975**

Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Karnack State No. 1 - 32.6962/ -94.1783
Last Modified: 2/5/2010

Record Key: CLTR20096C41AW01YT3E
Chemical Inventory Record Id: CVTR20096C414S01WHK3
Amt Of Sub Stored Or Transported: 420
Amount Units: barrels
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Beaird No. 1 - 32.7074 / -94.2002
Last Modified: 2/5/2010

Record Key: CLTR20096C41FN01ZXLJ
Chemical Inventory Record Id: CVTR20096C414S01WHK3
Amt Of Sub Stored Or Transported: 400
Amount Units: barrels
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Beaird No. 2 - 32.7037 / -94.1979
Last Modified: 2/5/2010

Record Key: CLTR20096C41WK020TK5
Chemical Inventory Record Id: CVTR20096C414S01WHK3
Amt Of Sub Stored Or Transported: 400
Amount Units: barrels
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Beaird No. 3 - 32.7155 / -94.1966
Last Modified: 2/5/2010

Record Key: CLTR20096C425C021EL5
Chemical Inventory Record Id: CVTR20096C414S01WHK3
Amt Of Sub Stored Or Transported: 400
Amount Units: barrels
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Beaird No. 4H - 32.7072 / -94.1964
Last Modified: 2/5/2010

Record Key: CLTR20096C42780221NV
Chemical Inventory Record Id: CVTR20096C414S01WHK3
Amt Of Sub Stored Or Transported: 400
Amount Units: barrels
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Karnack State No. 2 - 32.7001 / -94.1805
Last Modified: 2/5/2010

Notes: Not reported

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number

MARION COUNTY FACILITIES (Continued) **S110401975**

Validation: This facility passed all validation checks.

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33 **MARION COUNTY FACILITIES** **TX TIER 2** **S109712232**
N/A

MARSHALL, TX 75670

TIER 2:

Facility Id/Name:	FATR20086C3XTP01MPDG/MARION COUNTY FACILITIES
Reporting Year:	2008
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/30/2009
Date Tier 2 Signed:	2/25/2009
Mailing Address:	1415 Louisiana, Suite 1600
Mailing City/State/Country:	Houston, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Deborah J. Carr - Environmental Consultant
Latitude:	32.6862
Longitude:	-94.1783
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported

Validation: This facility passed all validation checks.

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33 **MUNDEN PIT** **FINDS** **1012313456**
LISA LANE **ECHO** **N/A**
KARNACK, TX 75661

FINDS:
Registry ID: 110040353140

Click Here:

Environmental Interest/Information System:
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

MUNDEN PIT (Continued) **1012313456**

States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
Texas Commission on Environmental Quality - Agency Central Registry (TX-TCEQ ACR) is a computer application that allows the Texas Commission on Environmental Quality (TCEQ) to use a single, centralized area to record common information, such as the company names, addresses, and telephone numbers of those the TCEQ regulates. It also contains additional IDs (permits, registrations, authorizations, etc) and their status.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1012313456
Registry ID:	110040353140
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110040353140
Name:	MUNDEN PIT
Address:	LISA LANE
City,State,Zip:	KARNACK, TX 75661

---

34 **HAGGERTY CREEK ENBRIDGE** **TX TIER 2** **S110395464** **N/A**

JEFFERSON, TX 75657

TIER 2:

Facility Id/Name:	FATR200970QXPD00YZE9/HAGGERTY CREEK ENBRIDGE
Reporting Year:	2009
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/24/2010
Date Tier 2 Signed:	2/15/2010
Mailing Address:	1100 Louisiana, Suite 3300
Mailing City/State/Country:	Houston, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Greg Lewis
Latitude:	32.685819
Longitude:	94.215436
Lat/Long Location Desc:	CE - Center of Facility
Lat/Long Method:	OT - Other
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK ENBRIDGE (Continued) **S110395464**

Facility Info:

Id:	211111
Id Type:	NAICS
Description:	Crude Petroleum and Natural Gas Extraction
Last Modified:	2/9/2010
Id:	Not reported
Id Type:	Dun & Bradstreet
Description:	Not reported
Last Modified:	2/9/2010
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/9/2010

Contact:

Contact Email:	Not reported
Contact Mail Address:	1100 Louisiana, Suite 3300
Contact City/State/Zip:	Houston, TX 77002
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Enbridge Pipelines (E. Texas), LP
Title:	Not reported
Modification Date:	3/14/2010

Contact:

Contact Email:	Not reported
Contact Mail Address:	2020 Bill Owens Parkway, #100
Contact City/State/Zip:	Longview, TX 75604
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	Brady Dodson
Title:	EHS Manager
Modification Date:	3/14/2010

Chemical Inventory:

Facility Id:	FATR200970QXPD00YZE9
Chemical Name:	Condensate
Chemical Inv Record Id:	CVTR200970QXTP016PU2
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	1,000 - 9,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	2/25/2010
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK ENBRIDGE (Continued) **S110395464**

Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2009
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR200970QXV4017XYH
Chemical Inventory Record Id:	CVTR200970QXTP016PU2
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	Storage Tanks
Last Modified:	2/25/2010

Notes: Not reported

Validation: This facility passed all validation checks.

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34 **HAGGERTY CREEK - ENBRIDGE TX** **TX TIER 2** **S113681618** **N/A**

JEFFERSON, TX 45657

TIER 2:

Facility Id/Name:	FATR201270QXPD00YZE9/HAGGERTY CREEK - ENBRIDGE TX
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/10/2013
Date Tier 2 Signed:	2/12/2013
Mailing Address:	1100 Louisiana, Suite 3300
Mailing City/State/Country:	Houston, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Greg Lewis
Latitude:	32.685819
Longitude:	94.215436
Lat/Long Location Desc:	CE - Center of Facility
Lat/Long Method:	OT - Other
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK - ENBRIDGE TX (Continued) **S113681618**

Facility Info:
- Id: 211111
- Id Type: NAICS
- Description: Crude Petroleum and Natural Gas Extraction
- Last Modified: 2/9/2010
- Id: Not reported
- Id Type: Dun & Bradstreet
- Description: Not reported
- Last Modified: 2/9/2010
- Id: 1311
- Id Type: SIC
- Description: CRUDE PETROLEUM & NATURAL GAS
- Last Modified: 2/9/2010

Contact:
- Contact Email: Not reported
- Contact Mail Address: 1100 Louisiana, Suite 3300
- Contact City/State/Zip: Houston, TX 77002
- Contact Mail Country: USA
- Contact Type 1: Owner / Operator
- Contact Name: Enbridge Pipelines (E. Texas), LP
- Title: Not reported
- Modification Date: 2/24/2013

- Contact Email: Not reported
- Contact Mail Address: 1100 Louisiana, Suite 3300
- Contact City/State/Zip: Houston, TX 77002
- Contact Mail Country: USA
- Contact Type 1: Owner / Operator
- Contact Name: Enbridge Pipelines (E. Texas), LP
- Title: Not reported
- Modification Date: 2/24/2013

Contact:
- Contact Email: Not reported
- Contact Mail Address: 2020 Bill Owens Parkway, #100
- Contact City/State/Zip: Longview, TX 75604
- Contact Mail Country: USA
- Contact Type 1: Emergency Contact
- Contact Name: Jeff Jackson
- Title: EHS Manager
- Modification Date: 2/24/2013

- Contact Email: Not reported
- Contact Mail Address: 2020 Bill Owens Parkway, #100
- Contact City/State/Zip: Longview, TX 75604
- Contact Mail Country: USA
- Contact Type 1: Emergency Contact
- Contact Name: Jeff Jackson
- Title: EHS Manager
- Modification Date: 4/26/2013

Chemical Inventory:
- Facility Id: FATR201270QXPD00YZE9

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK - ENBRIDGE TX (Continued) **S113681618**

Chemical Name:	Condensate
Chemical Inv Record Id:	CVTR201270QXTP016PU2
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	1,000 - 9,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	2/23/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201270QXV4017XYH
Chemical Inventory Record Id:	CVTR201270QXTP016PU2
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	Storage Tanks
Last Modified:	2/23/2013

Notes: Not reported
Validation: Not reported

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34 **HAGGERTY CREEK - ENBRIDGE** **TX TIER 2** **S111044885** **N/A**

JEFFERSON, TX 45657

TIER 2:

Facility Id/Name:	FATR201170QXPD00YZE9/HAGGERTY CREEK - ENBRIDGE
Reporting Year:	2011
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/16/2012
Date Tier 2 Signed:	2/15/2012
Mailing Address:	1100 Louisiana, Suite 3300
Mailing City/State/Country:	Houston, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK - ENBRIDGE (Continued) **S111044885**

Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Greg Lewis
Latitude:	32.685819
Longitude:	94.215436
Lat/Long Location Desc:	CE - Center of Facility
Lat/Long Method:	OT - Other
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Id/Name:	FATR201070QXPD00YZE9/HAGGERTY CREEK - ENBRIDGE
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	2/15/2011
Mailing Address:	1100 Louisiana, Suite 3300
Mailing City/State/Country:	Houston, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Greg Lewis
Latitude:	32.685819
Longitude:	94.215436
Lat/Long Location Desc:	CE - Center of Facility
Lat/Long Method:	OT - Other
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	211111
Id Type:	NAICS
Description:	Crude Petroleum and Natural Gas Extraction
Last Modified:	2/9/2010
Id:	1311
Id Type:	SIC
Description:	CRUDE PETROLEUM & NATURAL GAS
Last Modified:	2/9/2010
Id:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK - ENBRIDGE (Continued) **S111044885**

Id Type:	Dun & Bradstreet
Description:	Not reported
Last Modified:	2/9/2010

Contact:

Contact Email:	Not reported
Contact Mail Address:	2020 Bill Owens Parkway, #100
Contact City/State/Zip:	Longview, TX 75604
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	Brady Dodson
Title:	EHS Manager
Modification Date:	4/4/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	1100 Louisiana, Suite 3300
Contact City/State/Zip:	Houston, TX 77002
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Name:	Enbridge Pipelines (E. Texas), LP
Title:	Not reported
Modification Date:	4/4/2011

Chemical Inventory:

Facility Id:	FATR201070QXPD00YZE9
Chemical Name:	Condensate
Chemical Inv Record Id:	CVTR201070QXTP016PU2
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	1,000 - 9,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/9/2011
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2010
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201070QXV4017XYH
Chemical Inventory Record Id:	CVTR201070QXTP016PU2

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK - ENBRIDGE (Continued) **S111044885**

Amt Of Sub Stored Or Transported: Not reported
Amount Units: pounds
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Storage Tanks
Last Modified: 3/9/2011

Notes: Not reported
Validation: Not reported

Facility Info:
Id: 1311
Id Type: SIC
Description: CRUDE PETROLEUM & NATURAL GAS
Last Modified: 2/9/2010
Id: 211111
Id Type: NAICS
Description: Crude Petroleum and Natural Gas Extraction
Last Modified: 2/9/2010
Id: Not reported
Id Type: Dun & Bradstreet
Description: Not reported
Last Modified: 2/9/2010

Contact:
Contact Email: Not reported
Contact Mail Address: 1100 Louisiana, Suite 3300
Contact City/State/Zip: Houston, TX 77002
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Enbridge Pipelines (E. Texas), LP
Title: Not reported
Modification Date: 2/16/2012

Contact Email: Not reported
Contact Mail Address: 1100 Louisiana, Suite 3300
Contact City/State/Zip: Houston, TX 77002
Contact Mail Country: USA
Contact Type 1: Owner / Operator
Contact Name: Enbridge Pipelines (E. Texas), LP
Title: Not reported
Modification Date: 2/16/2012

Contact:
Contact Email: Not reported
Contact Mail Address: 2020 Bill Owens Parkway, #100
Contact City/State/Zip: Longview, TX 75604
Contact Mail Country: USA
Contact Type 1: Emergency Contact
Contact Name: Jeff Jackson
Title: EHS Manager
Modification Date: 2/16/2012

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK - ENBRIDGE (Continued) **S111044885**

Contact Email:	Not reported
Contact Mail Address:	2020 Bill Owens Parkway, #100
Contact City/State/Zip:	Longview, TX 75604
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Name:	Jeff Jackson
Title:	EHS Manager
Modification Date:	2/16/2012

Chemical Inventory:

Facility Id:	FATR201170QXPD00YZE9
Chemical Name:	Condensate
Chemical Inv Record Id:	CVTR201170QXTP016PU2
CAS Number:	8002-05-9
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	1,000 - 9,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	2/16/2012
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	Not reported
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201170QXV4017XYH
Chemical Inventory Record Id:	CVTR201170QXTP016PU2
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	pounds
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	Storage Tanks
Last Modified:	2/16/2012

Notes: Not reported
Validation: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

35 T.J. TAYLOR WELL NO. 12 | **TX TIER 2** | **S109198277 N/A**

KARNACK, TX 75661

TIER 2:

Facility Id/Name:	FATR20075MZPFF047VXD/T.J. TAYLOR WELL NO. 12
Reporting Year:	2007
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	8/5/2008
Date Tier 2 Signed:	2-13-2008
Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Karnack VFD
Submitted By:	Paul Griesedieck
Latitude:	32.68472
Longitude:	94.22194
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported
Validation: Not reported

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36 T.J. TAYLOR WELL NO. 6 | **TX TIER 2** | **S109198282 N/A**

KARNACK, TX 75661

TIER 2:

Facility Id/Name:	FATR200753TZ3N003ENA/T.J. TAYLOR WELL NO. 6
Reporting Year:	2007
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	8/5/2008
Date Tier 2 Signed:	2-13-2008
Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Karnack VFD
Submitted By:	Paul Griesedieck
Latitude:	32.681111

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

T.J. TAYLOR WELL NO. 6 (Continued) **S109198282**

Longitude:	94.195556
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported
Validation: Not reported

---

36 **ALFORD HEIRS WELL NO. 1** **TX TIER 2** **S109172951** **N/A**

KARNACK, TX 75661

TIER 2:

Facility Id/Name:	FATR200753XYQ800E34A/ALFORD HEIRS WELL NO. 1
Reporting Year:	2007
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	8/5/2008
Date Tier 2 Signed:	2-13-2008
Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Karnack VFD
Submitted By:	Paul Griesedieck
Latitude:	32.681667
Longitude:	94.197778
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported
Validation: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

36 STEPHENS WELL NO. 1 | **TX TIER 2** | **S109197631 N/A**

KARNACK, TX 75661

TIER 2:

Facility Id/Name:	FATR200753XYGV002QE2/STEPHENS WELL NO. 1
Reporting Year:	2007
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	8/5/2008
Date Tier 2 Signed:	2-13-2008
Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Karnack VFD
Submitted By:	Paul Griesedieck
Latitude:	32.683611
Longitude:	94.200278
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported
Validation: Not reported

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37 ELDRIDGE BIVINS 1 | **TX TIER 2** | **S111061652 N/A**

WASKOM, TX 75692

TIER 2:

Facility Id/Name:	FATR2012E01441367683/ELDRIDGE BIVINS 1
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/10/2013
Date Tier 2 Signed:	2/19/2013
Mailing Address:	12377 Merit Drive, Suite 1700
Mailing City/State/Country:	Dallas, TX USA
Dikes/Other Safeguard Meas Emp:	F
All Chemicals Same As Last Year:	False
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	F
Fire District:	Not reported
Submitted By:	Toby Burgin Environmental Manager
Latitude:	32.6835

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ELDRIDGE BIVINS 1 (Continued) **S111061652**

Longitude:	-94.2501
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Site Coordinate Abbr Submitted:	F
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	F
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported
Facility Id/Name:	FATR2011E01441367683/ELDRIDGE BIVINS 1
Reporting Year:	2011
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/16/2012
Date Tier 2 Signed:	2/24/2012
Mailing Address:	12377 Merit Drive, Suite 1700
Mailing City/State/Country:	Dallas, TX USA
Dikes/Other Safeguard Meas Emp:	F
All Chemicals Same As Last Year:	False
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	F
Fire District:	Not reported
Submitted By:	Toby Burgin Environmental Manager
Latitude:	32.6835
Longitude:	94.2501
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Site Coordinate Abbr Submitted:	F
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	F
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported
Facility Id/Name:	FATR2010E01441367683/ELDRIDGE BIVINS 1
Reporting Year:	2010
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	6/1/2011
Date Tier 2 Signed:	2/24/2011
Mailing Address:	12377 Merit Drive, Suite 1700
Mailing City/State/Country:	Dallas, TX USA
Dikes/Other Safeguard Meas Emp:	F
All Chemicals Same As Last Year:	False
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	F
Fire District:	Not reported
Submitted By:	Toby Burgin Environmental Manager

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ELDRIDGE BIVINS 1 (Continued) **S111061652**

Latitude:	32.6835
Longitude:	94.2501
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Site Coordinate Abbr Submitted:	F
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	F
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	1311
Id Type:	SIC
Description:	Not reported
Last Modified:	2/21/2011
Id:	02-640-9797
Id Type:	Dun & Bradstreet
Description:	Not reported
Last Modified:	2/21/2011
Id:	211111
Id Type:	NAICS
Description:	Not reported
Last Modified:	2/21/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	12377 Merit Drive, Suite 1700
Contact City/State/Zip:	Dallas, TX 75251
Contact Mail Country:	USA
Contact Type 1:	Owner/Operator
Contact Name:	EXCO Resources Inc.
Title:	Not reported
Modification Date:	4/4/2011

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Kevin Berry
Title:	Sr. EHS Technician
Modification Date:	4/4/2011

Notes: Not reported
Validation: Not reported

Facility Info:

Id:	02-640-9797

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ELDRIDGE BIVINS 1 (Continued) **S111061652**

Id Type:	Dun & Bradstreet
Description:	Not reported
Last Modified:	2/20/2012
Id:	211111
Id Type:	NAICS
Description:	Not reported
Last Modified:	2/20/2012
Id:	1311
Id Type:	SIC
Description:	Not reported
Last Modified:	2/20/2012

Contact:

Contact Email:	Not reported
Contact Mail Address:	P.O. Box 2518
Contact City/State/Zip:	Midland, TX 79702
Contact Mail Country:	USA
Contact Type 1:	Submitter
Contact Name:	Greg Byrd
Title:	Production Manager
Modification Date:	3/8/2012

Contact Email:	Not reported
Contact Mail Address:	P.O. Box 2518
Contact City/State/Zip:	Midland, TX 79702
Contact Mail Country:	USA
Contact Type 1:	Submitter
Contact Name:	Greg Byrd
Title:	Production Manager
Modification Date:	3/8/2012

Contact:

Contact Email:	Not reported
Contact Mail Address:	12377 Merit Drive, Suite 1700
Contact City/State/Zip:	Dallas, TX 75251
Contact Mail Country:	USA
Contact Type 1:	Owner/Operator
Contact Name:	EXCO Resources Inc.
Title:	Not reported
Modification Date:	2/29/2012

Contact Email:	Not reported
Contact Mail Address:	12377 Merit Drive, Suite 1700
Contact City/State/Zip:	Dallas, TX 75251
Contact Mail Country:	USA
Contact Type 1:	Owner/Operator
Contact Name:	EXCO Resources Inc.
Title:	Not reported
Modification Date:	2/29/2012

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ELDRIDGE BIVINS 1 (Continued) **S111061652**

Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kevin Berry
Title: Sr. EHS Technician
Modification Date: 2/29/2012

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kevin Berry
Title: Sr. EHS Technician
Modification Date: 2/29/2012

Chemical Inventory:
Facility Id: FATR2011E01441367683
Chemical Name: PRODUCED HYDROCARBONS
Chemical Inv Record Id: CVTR2011E00000000383
CAS Number: Not reported
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: F
Last Modified: 2/29/2012
Days On Site: 365
Fire Hazard: T
Gas: T
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: F
Reactive Hazard: F
Solid: F
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2011
Trade Secret: Not reported

Facility Id: FATR2011E01441367683
Chemical Name: SURFACTANTS, FLAMMABLE
Chemical Inv Record Id: CVTR2011E00000000384
CAS Number: Not reported
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 1,000 - 9,999 pounds
Max Daily Amount: 1,000 - 9,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: F
Last Modified: 2/29/2012
Days On Site: 365
Fire Hazard: T
Gas: F

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ELDRIDGE BIVINS 1 (Continued) **S111061652**

Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	F
Pure Form:	T
Reactive Hazard:	F
Solid:	F
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Facility Id:	FATR2011E01441367683
Chemical Name:	SOLVENTS
Chemical Inv Record Id:	CVTR2011E00000000385
CAS Number:	Not reported
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	1,000 - 9,999 pounds
Max Daily Amount:	1,000 - 9,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	F
Last Modified:	2/29/2012
Days On Site:	365
Fire Hazard:	T
Gas:	F
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	F
Pure Form:	F
Reactive Hazard:	F
Solid:	F
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2011
Trade Secret:	Not reported

Notes: Not reported
Validation: Not reported

Facility Info:

Id:	02-640-9797
Id Type:	Dun & Bradstreet
Description:	Not reported
Last Modified:	2/4/2013
Id:	211111
Id Type:	NAICS
Description:	Not reported
Last Modified:	2/4/2013
Id:	1311
Id Type:	SIC
Description:	Not reported
Last Modified:	2/4/2013

Contact:

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ELDRIDGE BIVINS 1 (Continued) **S111061652**

Contact Email: Not reported
Contact Mail Address: 12377 Merit Drive, Suite 1700
Contact City/State/Zip: Dallas, TX 75251
Contact Mail Country: USA
Contact Type 1: Owner/Operator
Contact Name: EXCO Resources Inc.
Title: Not reported
Modification Date: 3/9/2013

Contact Email: Not reported
Contact Mail Address: 12377 Merit Drive, Suite 1700
Contact City/State/Zip: Dallas, TX 75251
Contact Mail Country: USA
Contact Type 1: Owner/Operator
Contact Name: EXCO Resources Inc.
Title: Not reported
Modification Date: 3/9/2013

Contact:
Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kevin Berry
Title: Sr. EHS Technician
Modification Date: 3/9/2013

Contact Email: Not reported
Contact Mail Address: Not reported
Contact City/State/Zip: Not reported
Contact Mail Country: Not reported
Contact Type 1: Emergency Contact
Contact Name: Kevin Berry
Title: Sr. EHS Technician
Modification Date: 3/9/2013

Contact:
Contact Email: Not reported
Contact Mail Address: 12377 Merit Drive, Suite 1700
Contact City/State/Zip: Dallas, TX 75251
Contact Mail Country: USA
Contact Type 1: Submitter
Contact Name: Toby Burgin
Title: Environmental Manager
Modification Date: 2/4/2013

Contact Email: Not reported
Contact Mail Address: 12377 Merit Drive, Suite 1700
Contact City/State/Zip: Dallas, TX 75251
Contact Mail Country: USA
Contact Type 1: Submitter
Contact Name: Toby Burgin
Title: Environmental Manager

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ELDRIDGE BIVINS 1 (Continued) **S111061652**

Modification Date: 2/4/2013

Chemical Inventory:
Facility Id: FATR2012E01441367683
Chemical Name: SOLVENTS
Chemical Inv Record Id: CVTR2012E00124630970
CAS Number: Not reported
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 1,000 - 9,999 pounds
Max Daily Amount: 1,000 - 9,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: F
Last Modified: 3/7/2013
Days On Site: 365
Fire Hazard: T
Gas: F
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: F
Pure Form: F
Reactive Hazard: F
Solid: F
Trade Secret: F
Contact Label: Not reported
Label Code: TX2012
Trade Secret: F

Chemical Inventory Location:
Record Key: CLTR2012E01565998653
Chemical Inventory Record Id: CVTR2012E00124630970
Amt Of Sub Stored Or Transported: Not reported
Amount Units: Not reported
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Lat 32.6835 Lon -94.2501
Last Modified: 3/7/2013

Facility Id: FATR2012E01441367683
Chemical Name: SURFACTANTS, FLAMMABLE
Chemical Inv Record Id: CVTR2012E00262237831
CAS Number: Not reported
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 1,000 - 9,999 pounds
Max Daily Amount: 1,000 - 9,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: F
Last Modified: 3/7/2013
Days On Site: 365
Fire Hazard: T
Gas: F
Liquid: T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ELDRIDGE BIVINS 1 (Continued) **S111061652**

Mixture Form: T
Sudden Release Of Pressure Haz: F
Pure Form: T
Reactive Hazard: F
Solid: F
Trade Secret: F
Contact Label: Not reported
Label Code: TX2012
Trade Secret: F

Chemical Inventory Location:
Record Key: CLTR2012E01703605514
Chemical Inventory Record Id: CVTR2012E00262237831
Amt Of Sub Stored Or Transported: Not reported
Amount Units: Not reported
Type Of Storage: Steel drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Lat 32.6835 Lon -94.2501
Last Modified: 3/7/2013

Facility Id: FATR2012E01441367683
Chemical Name: PRODUCED HYDROCARBONS
Chemical Inv Record Id: CVTR2012E01634305448
CAS Number: Not reported
Chemical Same As Last Year: Not reported
Acute Health Risks: T
Average Daily Amount: 100,000 - 999,999 pounds
Max Daily Amount: 100,000 - 999,999 pounds
Max Amount In Largest Container: Not reported
Chronic Health Risks: T
EHS Substance: F
Last Modified: 3/7/2013
Days On Site: 365
Fire Hazard: T
Gas: T
Liquid: T
Mixture Form: T
Sudden Release Of Pressure Haz: T
Pure Form: F
Reactive Hazard: F
Solid: F
Trade Secret: F
Contact Label: Not reported
Label Code: TX2012
Trade Secret: F

Chemical Inventory Location:
Record Key: CLTR2012E01219294165
Chemical Inventory Record Id: CVTR2012E01634305448
Amt Of Sub Stored Or Transported: Not reported
Amount Units: Not reported
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Lat 32.6835 Lon -94.2501

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ELDRIDGE BIVINS 1 (Continued) **S111061652**

Last Modified: 3/7/2013

Notes: Not reported
Validation: Not reported

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37 **ELDRIDGE BIVINS 1** **TX TIER 2** **S110391705**
N/A

RURAL, TX 11111

TIER 2:

Facility Id/Name:	FATR2009E01441367683/ELDRIDGE BIVINS 1
Reporting Year:	2009
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/24/2010
Date Tier 2 Signed:	2/22/2010
Mailing Address:	P.O. Box 70
Mailing City/State/Country:	Jonesville, TX USA
Dikes/Other Safeguard Meas Emp:	F
All Chemicals Same As Last Year:	False
State Fees Total:	Not reported
Number Of Employess On Site:	Not reported
Site Map:	F
Fire District:	Not reported
Submitted By:	Bryan Nelson QHSE Manager
Latitude:	32.6835
Longitude:	94.2501
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Site Coordinate Abbr Submitted:	F
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	F
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	02-640-9797
Id Type:	Dun & Bradstreet
Description:	Not reported
Last Modified:	2/14/2010
Id:	1311
Id Type:	SIC
Description:	Not reported
Last Modified:	2/14/2010
Id:	211111
Id Type:	NAICS
Description:	Not reported
Last Modified:	2/14/2010

Contact:

Contact Email:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ELDRIDGE BIVINS 1 (Continued) **S110391705**

Contact Mail Address:	12377 Merit Drive, Suite 1700
Contact City/State/Zip:	Dallas, TX 75251
Contact Mail Country:	USA
Contact Type 1:	Owner/Operator
Contact Name:	EXCO Resources Inc.
Title:	Not reported
Modification Date:	3/14/2010

Contact:

Contact Email:	Not reported
Contact Mail Address:	Not reported
Contact City/State/Zip:	Not reported
Contact Mail Country:	Not reported
Contact Type 1:	Emergency Contact
Contact Name:	Justin Thompson
Title:	Sr. EHS Technician
Modification Date:	3/14/2010

Chemical Inventory:

Facility Id:	FATR2009E01441367683
Chemical Name:	PRODUCED HYDROCARBONS
Chemical Inv Record Id:	CVTR2009E02146583982
CAS Number:	Not reported
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	100,000 - 999,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	F
Last Modified:	2/14/2010
Days On Site:	365
Fire Hazard:	T
Gas:	T
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	T
Pure Form:	F
Reactive Hazard:	F
Solid:	F
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	Not reported
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR2009E02146584037
Chemical Inventory Record Id:	CVTR2009E02146583982
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	Not reported
Type Of Storage:	Other
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	PRODUCTION
Last Modified:	2/14/2010

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ELDRIDGE BIVINS 1 (Continued) **S110391705**

Record Key:	CLTR2009E02146584037
Chemical Inventory Record Id:	CVTR2009E02146583982
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	Not reported
Type Of Storage:	Other
Number Code/Storage Pressure:	2
Number Code/Storage Temperature:	5
Desc of Loc(Or Transported) Subs:	PRODUCTION
Last Modified:	2/14/2010

Record Key:	CLTR2009E02146584037
Chemical Inventory Record Id:	CVTR2009E02146583982
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	Not reported
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	PRODUCTION
Last Modified:	2/14/2010

Record Key:	CLTR2009E02146584037
Chemical Inventory Record Id:	CVTR2009E02146583982
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	Not reported
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	2
Number Code/Storage Temperature:	5
Desc of Loc(Or Transported) Subs:	PRODUCTION
Last Modified:	2/14/2010

Facility Id:	FATR2009E01441367683
Chemical Name:	SURFACTANTS, FLAMMABLE
Chemical Inv Record Id:	CVTR2009E02146583983
CAS Number:	Not reported
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	1,000 - 9,999 pounds
Max Daily Amount:	1,000 - 9,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	F
Last Modified:	2/14/2010
Days On Site:	365
Fire Hazard:	T
Gas:	F
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	F
Pure Form:	T
Reactive Hazard:	F
Solid:	F
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	Not reported
Trade Secret:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ELDRIDGE BIVINS 1 (Continued) **S110391705**

Chemical Inventory Location:

Record Key:	CLTR2009E02146584039
Chemical Inventory Record Id:	CVTR2009E02146583983
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	Not reported
Type Of Storage:	Other
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	DRILLING, PRODUCTION, WORKOVER/COMPLETION
Last Modified:	2/14/2010

Facility Id:	FATR2009E01441367683
Chemical Name:	SOLVENTS
Chemical Inv Record Id:	CVTR2009E02146583984
CAS Number:	Not reported
Chemical Same As Last Year:	Not reported
Acute Health Risks:	T
Average Daily Amount:	1,000 - 9,999 pounds
Max Daily Amount:	1,000 - 9,999 pounds
Max Amount In Largest Container:	Not reported
Chronic Health Risks:	T
EHS Substance:	F
Last Modified:	2/14/2010
Days On Site:	365
Fire Hazard:	T
Gas:	F
Liquid:	T
Mixture Form:	T
Sudden Release Of Pressure Haz:	F
Pure Form:	F
Reactive Hazard:	F
Solid:	F
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	Not reported
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR2009E02146584041
Chemical Inventory Record Id:	CVTR2009E02146583984
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	Not reported
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	DRILLING, PRODUCTION, WORKOVER/COMPLETION
Last Modified:	2/14/2010

Record Key:	CLTR2009E02146584041
Chemical Inventory Record Id:	CVTR2009E02146583984
Amt Of Sub Stored Or Transported:	Not reported
Amount Units:	Not reported
Type Of Storage:	Steel drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	DRILLING, PRODUCTION, WORKOVER/COMPLETION

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

ELDRIDGE BIVINS 1 (Continued) **S110391705**

Last Modified: 2/14/2010

Record Key: CLTR2009E02146584041
Chemical Inventory Record Id: CVTR2009E02146583984
Amt Of Sub Stored Or Transported: Not reported
Amount Units: Not reported
Type Of Storage: Other
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: DRILLING, PRODUCTION, WORKOVER/COMPLETION
Last Modified: 2/14/2010

Notes: Not reported
Validation: Not reported

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38 **FYFFES CORNER GROCERY** **TX UST** **U003201642**
623 FM 2198 **N/A**
KARNACK, TX 75661

UST:

Name:	FYFFES CORNER GROCERY
Address:	623 FM 2198
City,State,Zip:	KARNACK, TX 756611443
AI Number:	25827
Facility Type:	RETAIL
Facility Begin Date:	01/01/1972
Facility Status:	ACTIVE
Additional ID:	597185982002139
Facility Exempt Status:	N
Records Off-Site:	No
UST Financial Assurance Required:	No
Number Of Active UST:	2
Site Location Description:	Not reported
Site Location (Nearest City Name):	Not reported
Site Location (County Name):	HARRISON
Site Location (Tceq Region):	5
Site Location (Location Zip):	75661
Contact Name/Title:	MICHAEL E FYFFE,OWNER
Contact Organization Name:	FYFFES CORNER GROCERY
Contact Mailing Address1:	Not reported
Contact Mailing Address2:	Not reported
Contact Mailing City/State/Zip:	Not reported
Contact Telephone:	9036793536
Facility Contact Address Deliverable:	Not reported
Contact Fax Number:	Not reported
Contact Email Address:	Not reported
Signature Date On Earliest Reg Form:	05/30/2016
Signature Name/Title On Earliest Reg Form:	MICHAEL FYFFE,OWNER
Application Received Date On Earliest Reg Form:	05/31/2016
Signature Role On Earliest Reg Form:	OWNER
Signature Company On Earliest Reg Form:	Not reported
Enforcement Action:	No
Facility Not Inspectable:	No

Operator:

Princ ID:	587185972002139

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

FYFFES CORNER GROCERY (Continued) **U003201642**

Additional ID:	597185982002139
Ai Number:	25827
Operator CN:	CN601208861
Operator Name:	MICHAEL E FYFFE
Operator Effective Begin Date:	06/01/1997
Operator Type:	IN
Operator Role:	OPRCON
Contact Name:	MICHAEL E FYFFE/OWNER
Contact Organization Name:	FYFFE MICHAEL E
Contact Mailing Address (Delivery):	PO BOX 449
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City/State/Zip:	KARNACK TX 75661-0449
Contact Phone Country Code:	1
Contact Phone Area Code:	903
Contact Phone Number:	6793536
Contact Phone Extension:	0
Contact Fax Country Code:	Not reported
Contact Fax Area Code:	Not reported
Contact Fax Number:	Not reported
Contact Fax Extension:	Not reported
Contact Email Address:	Not reported
Contact Address Deliverable:	Not reported

Owner:

Owner CN:	CN601208861
Owner Last Name:	FYFFE
Owner First Name:	MICHAEL
Owner Middle Name:	E
Owner Type:	IN
Contact Mailing Address (Delivery):	PO BOX 449
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City:	KARNACK
Contact Mailing State:	TX
Contact Mailing Zip:	75661
Contact Mailing Zip5:	0449
Contact Phone Number/Ext:	1 903 6793536/0
Contact Fax Country Code:	Not reported
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Not reported
Princ ID:	587185972002139
Additional ID:	597185982002139
AI Number:	25827
Owner Effective Begin Date:	06/01/1997
State Tax ID:	Not reported
Contact Role:	OWNCON
Contact Name/Title:	MICHAEL E FYFFE/OWNER
Contact Organization Name:	FYFFE MICHAEL E

Self Certification:

Self Cert ID:	80446
Cert ID:	270471
AI Number:	25827
Self Certification Date:	05/30/2016
Signature Name/Title:	MICHAEL FYFFE OWNER
Signature Type Role:	OWNER

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

FYFFES CORNER GROCERY (Continued) **U003201642**

Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2017
Reporting Method:	P
Tank Corrosion Protection Compliance:	Y
Piping Corrosion Protection Compliance:	Y
Compartment Release Detection Compliance:	Y
Piping Release Detection Compliance:	Y
Spill Prevention/Overfill Compliance:	Y

Self Cert ID:	80446
Cert ID:	253692
AI Number:	25827
Self Certification Date:	05/22/2015
Signature Name/Title:	MICHAEL FYFFE OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2016
Reporting Method:	P
Tank Corrosion Protection Compliance:	Y
Piping Corrosion Protection Compliance:	Y
Compartment Release Detection Compliance:	Y
Piping Release Detection Compliance:	Y
Spill Prevention/Overfill Compliance:	Y

Self Cert ID:	80446
Cert ID:	236634
AI Number:	25827
Self Certification Date:	05/18/2014
Signature Name/Title:	MICHAEL FYFFE OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2015
Reporting Method:	P
Tank Corrosion Protection Compliance:	Y
Piping Corrosion Protection Compliance:	Y
Compartment Release Detection Compliance:	Y
Piping Release Detection Compliance:	Y
Spill Prevention/Overfill Compliance:	Y

Self Cert ID:	80446
Cert ID:	219605
AI Number:	25827
Self Certification Date:	04/22/2013
Signature Name/Title:	MICHAEL FYFFE OWNER
Signature Type Role:	OWNER

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

FYFFES CORNER GROCERY (Continued) **U003201642**

Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2014
Reporting Method:	P
Tank Corrosion Protection Compliance:	Y
Piping Corrosion Protection Compliance:	Y
Compartment Release Detection Compliance:	Y
Piping Release Detection Compliance:	Y
Spill Prevention/Overfill Compliance:	N
Self Cert ID:	80446
Cert ID:	132545
AI Number:	25827
Self Certification Date:	04/24/2012
Signature Name/Title:	MICHAEL FYFFE OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2013
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported
Self Cert ID:	80446
Cert ID:	132544
AI Number:	25827
Self Certification Date:	04/28/2011
Signature Name/Title:	MICHAEL FYFFE OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2012
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported
Self Cert ID:	80446
Cert ID:	132543
AI Number:	25827
Self Certification Date:	05/25/2010
Signature Name/Title:	MICHAEL E FYFFE OWNER
Signature Type Role:	OWNER

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

FYFFES CORNER GROCERY (Continued) **U003201642**

Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2011
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	80446
Cert ID:	132542
AI Number:	25827
Self Certification Date:	05/10/2009
Signature Name/Title:	MICHAEL E FYFFE OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2010
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	80446
Cert ID:	132541
AI Number:	25827
Self Certification Date:	05/12/2008
Signature Name/Title:	MICHAEL E FYFFE OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2009
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	80446
Cert ID:	132540
AI Number:	25827
Self Certification Date:	05/27/2007
Signature Name/Title:	MICHAEL E FYFFE OWNER
Signature Type Role:	OWNER

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

FYFFES CORNER GROCERY (Continued) **U003201642**

Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2008
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	80446
Cert ID:	132539
AI Number:	25827
Self Certification Date:	04/24/2006
Signature Name/Title:	MICHAEL E FYFEE OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2007
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	80446
Cert ID:	132538
AI Number:	25827
Self Certification Date:	05/01/2005
Signature Name/Title:	MICHAEL E FYFFE OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2006
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	80446
Cert ID:	132537
AI Number:	25827
Self Certification Date:	04/14/2004
Signature Name/Title:	MICHAEL E FYFFE OWNER
Signature Type Role:	OWNER

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

FYFFES CORNER GROCERY (Continued) **U003201642**

Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2005
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	80446
Cert ID:	132536
AI Number:	25827
Self Certification Date:	07/28/2003
Signature Name/Title:	MICHAEL E FYFFE OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2004
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	80446
Cert ID:	132535
AI Number:	25827
Self Certification Date:	04/01/2002
Signature Name/Title:	MICHAEL E FYFFE OWNER
Signature Type Role:	OWNER
Filing Status:	RENEWAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2003
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Self Cert ID:	80446
Cert ID:	132534
AI Number:	25827
Self Certification Date:	03/15/2001
Signature Name/Title:	MICHAEL E FYFFE OWNER
Signature Type Role:	OWNER

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

FYFFES CORNER GROCERY (Continued) **U003201642**

Filing Status:	INITIAL
Registration Self Certification Flag:	Y
Facility Fees Self Certification Flag:	Y
Financial Assurance Self Certification Flag:	Y
Technical Standards Self Certification Flag:	Y
Delivery Certificate Expiration Date:	05/31/2002
Reporting Method:	Not reported
Tank Corrosion Protection Compliance:	Not reported
Piping Corrosion Protection Compliance:	Not reported
Compartment Release Detection Compliance:	Not reported
Piping Release Detection Compliance:	Not reported
Spill Prevention/Overfill Compliance:	Not reported

Tank:

Install Date:	01/01/1972
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	3000
Tank Singlewall:	Y
Tank Doublewall:	N
Pipe Type:	S
UST ID:	66244
Facility ID:	80446
Ai Number:	25827
Tank Id:	1
Tank Status (Current):	TEMP OUT OF SERVICE
Tank Status Date:	07/17/2016
Empty:	Y
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	Y
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	Y
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

FYFFES CORNER GROCERY (Continued) **U003201642**

TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	Y
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	Y
Piping Corr Prot Compliance Flag:	Y
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	Y
Technical Compliance Flag:	Y
Tank Tested Flag:	N
Installation Signature Date:	02/01/1991

Compartment Records:

Tank ID:	1
Tank Capacity:	3000
UST Comprt ID:	131297
UST ID:	66244
AI Number:	25827
Compartment ID:	A
Substance Stored1:	EMPTY
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	Y
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	Y
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	Y
SOPE(Spill Cont/Bucket/Sump):	Y
SOPE(DelShut-Off Valve)):	Y
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	Y
Piping Release Detection Compliance Flag):	Y
Spill/OverfillPreventionCompliance Flag:	Y
Compartment Release Detection Variance:	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

FYFFES CORNER GROCERY (Continued) **U003201642**

Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported
Install Date:	01/01/1976
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	3000
Tank Singlewall:	Y
Tank Doublewall:	N
Pipe Type:	S
UST ID:	66246
Facility ID:	80446
Ai Number:	25827
Tank Id:	2
Tank Status (Current):	TEMP OUT OF SERVICE
Tank Status Date:	07/17/2016
Empty:	Y
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	Y
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	Y
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	Y
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

FYFFES CORNER GROCERY (Continued) **U003201642**

PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	Y
Piping Corr Prot Compliance Flag:	Y
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	Y
Technical Compliance Flag:	Y
Tank Tested Flag:	N
Installation Signature Date:	02/01/1991

Compartment Records:

Tank ID:	2
Tank Capacity:	3000
UST Comprt ID:	131299
UST ID:	66246
AI Number:	25827
Compartment ID:	A
Substance Stored1:	EMPTY
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	Y
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	Y
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	Y
SOPE(Spill Cont/Bucket/Sump):	Y
SOPE(DelShut-Off Valve)):	Y
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	Y
Piping Release Detection Compliance Flag):	Y
Spill/OverfillPreventionCompliance Flag:	Y
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

Install Date:	01/01/1972
Tank Registration Date:	05/08/1986

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

FYFFES CORNER GROCERY (Continued) **U003201642**

Number of Compartments:	1
Tank Capacity:	4000
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	66245
Facility ID:	80446
Ai Number:	25827
Tank Id:	2A
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	08/31/1999
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

FYFFES CORNER GROCERY (Continued) **U003201642**

Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	02/01/1991

Compartment Records:

Tank ID:	2A
Tank Capacity:	4000
UST Comprt ID:	131298
UST ID:	66245
AI Number:	25827
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

Construction Notification:

NOC ID:	13040
Facility ID:	80446
AI Number:	25827
Application Received Date:	09/23/1999
Scheduled Construction Date:	09/21/1999
UST Improvement:	N
UST Installation:	N
UST Removal:	Y

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

FYFFES CORNER GROCERY (Continued) **U003201642**

UST Repair:	N
UST Return To Service:	N
UST Replacement:	N
UST Abandonment:	N
UST Stage I:	N
AST Installation:	N
AST Stage I:	N
Historical Tracking Number:	990923007
Waiver Flag:	N
Late Filing Flag:	Y
Form Received Date:	Not reported
Signature Date On Form:	Not reported
Signature Name On Form:	Not reported
Signature Company On Form:	Not reported
Signature Title On Form:	Not reported
Signature Role:	Not reported
Owner Name At Time Of Construction:	Not reported
Owner CN At Time Of Construction:	Not reported
Owner AR At Time Of Construction:	51235
General Desc Of Prop Construct:	Not reported

Contractor, Consultant and Installer:

Cont/Cons/Installer ID:	14014
UST ID:	Not reported
NOC ID:	13040
AI Number:	25827
Type Of Contact:	CONTRACTOR
Contractor CRP Number Or Installer ILP Number:	CRP000099
Company Name:	Not reported
Representative Name:	Not reported
Mailing Address (Delivery):	Not reported
Mailing Address (Internal Delivery):	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing Foreign Postal Code:	Not reported
Mailing County Code:	Not reported
Phone Number Country Code:	1
Phone Number Area Code:	Not reported
Phone Number:	Not reported
Phone Number Extension:	Not reported
Fax Number Country Code:	Not reported
Fax Number Area Code:	Not reported
Fax Number:	Not reported
Email Address:	Not reported

Facility Billing Contacts:

Contact Organization Name:	FYFFE MICHAEL E
Contact Mailing Address (Delivery):	PO BOX 449
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City/State/Zip:	KARNACK, TX 75661 0449
Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Y
Facility ID:	80446

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number

FYFFES CORNER GROCERY (Continued) **U003201642**

Additional ID:	597185982002139
Princ ID:	587185972002139
AI Number:	25827
Facility Name:	FYFFES CORNER GROCERY
AR Number:	51235
AR UST Number Suffix:	Not reported
AR AST Number Suffix:	U
Contact Name/Title:	MICHAEL E FYFFE/

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38 **FYFFES CORNER GROCERY** **FINDS** **1010779629**
623 FM 2198 **N/A**
KARNACK, TX 75661

FINDS:
Registry ID: 110034078851

Click Here:

Environmental Interest/Information System:
Texas Commission on Environmental Quality - Agency Central Registry (TX-TCEQ ACR) is a computer application that allows the Texas Commission on Environmental Quality (TCEQ) to use a single, centralized area to record common information, such as the company names, addresses, and telephone numbers of those the TCEQ regulates. It also contains additional IDs (permits, registrations, authorizations, etc) and their status.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

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38 **FYFFES CORNER GROCERY** **TX CENTRAL REGISTRY** **S126570548**
623 FM 2198 **N/A**
KARNACK, TX 75661

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39 **CADDO LEVEE BOARD H SWD** **LA UIC** **S110448678**
N/A

, LA

UIC:

Name:	CADDO LEVEE BOARD H SWD
Address:	Not reported
City,State,Zip:	LA
Location:	Not reported
Org Id:	1994
Org Oper Name:	GEMINI EXPLORATIONS, INC.
Field Id:	2152
Field Name:	CADDO PINE ISLAND
Well Class:	II
Well Class Type Code Description:	PRODUCED SALT WATER
API Num:	17017164850000
Wells Serial Num:	87887
Well Num:	001
Section:	032

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LEVEE BOARD H SWD (Continued) **S110448678**

Township:	20N
Well Range:	16W
Parish Code:	09
Well Status Code:	29
Well Status Code Description:	DRY AND PLUGGED
Well Status Date:	04/20/2005
Address1:	Not reported
Address2:	Not reported
Address2:	Not reported
Permit Date:	12/01/1961
Effective Date:	04/20/2005
Meridian:	W
Field District Name:	Shreveport
Field Area Code:	Onshore
Product Type Code:	00
Product Type Code Description:	NO PRODUCT SPECIFIED
Measured Depth:	2400
Longitude Degrees:	Not reported
Longitude Minutes:	Not reported
Longitude Seconds:	Not reported
Latitude Degrees:	Not reported
Latitude Minutes:	Not reported
Latitude Seconds:	Not reported
G UTMX:	Not reported
G UTMY:	Not reported
G LATY:	32.6802969
G LONGX:	-94.025977
Legend:	2900
Hyperlink:	http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=87887
Doc Access:	http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=87887
Upper Perf:	864
Lower Perf:	884

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39 **LIEBMAN SWD** **LA UIC** **S109977219** **N/A**

, LA

UIC:

Name:	LIEBMAN SWD
Address:	Not reported
City,State,Zip:	LA
Location:	Not reported
Org Id:	4043
Org Oper Name:	TOMMY A. PAUL
Field Id:	2152
Field Name:	CADDO PINE ISLAND
Well Class:	II
Well Class Type Code Description:	PRODUCED SALT WATER
API Num:	17017883110000
Wells Serial Num:	971985
Well Num:	001
Section:	032
Township:	20N
Well Range:	15W
Parish Code:	09
Well Status Code:	09
Well Status Code Description:	ACTIVE- INJECTION

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LIEBMAN SWD (Continued) **S109977219**

Well Status Date:	11/25/1988
Address1:	Not reported
Address2:	Not reported
Address2:	Not reported
Permit Date:	11/04/1988
Effective Date:	01/01/2007
Meridian:	W
Field District Name:	Shreveport
Field Area Code:	Onshore
Product Type Code:	00
Product Type Code Description:	NO PRODUCT SPECIFIED
Measured Depth:	950
Longitude Degrees:	Not reported
Longitude Minutes:	Not reported
Longitude Seconds:	Not reported
Latitude Degrees:	Not reported
Latitude Minutes:	Not reported
Latitude Seconds:	Not reported
G UTMX:	Not reported
G UTMY:	Not reported
G LATY:	32.6816028
G LONGX:	-94.024568
Legend:	09II5
Hyperlink:	http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=971985
Doc Access:	http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=971985
Upper Perf:	826;840
Lower Perf:	846;860

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40 **HAGGERTY CREEK COMPRESSOR STATION** **TX AIRS S116580452**
TX COMP HIST N/A

KARNACK, TX

AIRS:

Name:	HAGGERTY CREEK COMPRESSOR STATION
Address:	Not reported
City,State,Zip:	KARNACK, TX
Permit Num:	80999
Regulated Id:	RN105156160
Permit Type:	PBR
Permit Status:	EFFECTIVE
Permit Issued Date:	12/04/2018
Expiration Date:	12/31/3000
Customer Id:	CN603573817
Company Name:	ENBRIDGE G & P (EAST TEXAS) L.P.
Physical Location Desc:	FROM KARNACK TX 3 MI NW ON HWY 134 TURN LEFT ON HWY 2421 AND DRIVE APPROXIMATELY .7 MI THE STATION WILL BE .4 MI S OFF THE RD
Rep Official(RO):	SUPERVISOR EHS G&P EAST DISTRICT
RO Name:	MRS JULIA KNEZEK
RO Delivery Address:	2020 BILL OWENS PKWY STE 100
RO City/State/Zip:	LONGVIEW, T 75604-621
RO Phone:	903-323-4315
RO Ext Num:	Not reported
RO EMail Address:	JULIA.KNEZEK@ENBRIDGE.COM
Lat Dec Coord Num:	-94.22222
Long Dec Coord Num:	32.6794439

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

HAGGERTY CREEK COMPRESSOR STATION (Continued) **S116580452**

COMP HIST:

RN Number:	RN105156160
Name:	HAGGERTY CREEK COMPRESSOR STATION
Address:	Not reported
City,State,Zip:	KARNACK, TX
Region:	REGION 05 - TYLER
CN Number:	CN603573817
CN Name:	MIDCOAST G & P EAST TEXAS LP
CN Rating:	2.61
Classification:	SATISFACTORY
Date Calculated:	09/01/2020
Date Published to Web:	11/15/2020
Rating:	0
Classification 2:	UNCLASSIFIED
Date Rated 2:	09/01/2020
Date Published to Web 2:	11/15/2020
NAICS Code:	211111
SIC Code:	1442
Related Number:	67296,80999,80999

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40 **HAGGERTY CREEK COMPRESSOR STATION** **FINDS** **1010777137**
FROM KARNACK TX 3 MI NW ON HWY 134 TURN LEFT ON HW **N/A**
KARNACK, TX 75661

FINDS:
Registry ID: 110033804907

Click Here:

Environmental Interest/Information System:
Texas Commission on Environmental Quality - Agency Central Registry (TX-TCEQ ACR) is a computer application that allows the Texas Commission on Environmental Quality (TCEQ) to use a single, centralized area to record common information, such as the company names, addresses, and telephone numbers of those the TCEQ regulates. It also contains additional IDs (permits, registrations, authorizations, etc) and their status.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

---

40 **ERNS** **2017175313**
SEE LAT AND LONG **N/A**
HARRISON (County), TX

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
40	**COMPRESSOR STATION** **BALDWIN, TX** Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.	**ERNS**	**2015125165** **N/A**

---

40 **T.J. TAYLOR WELL NO. 13** **TX TIER 2** **S109198278**
N/A

KARNACK, TX 75661

TIER 2:

Facility Id/Name:	FATR200753U0AK00TU83/T.J. TAYLOR WELL NO. 13
Reporting Year:	2007
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	8/5/2008
Date Tier 2 Signed:	2-13-2008
Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Karnack VFD
Submitted By:	Paul Griesedieck
Latitude:	32.680278
Longitude:	94.222222
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported
Validation: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

41 **CADDO LAKE STATE PARK WWTP** **ICIS** **1018299062**
245 PARK RD 2 **N/A**
HARRISON COUNTY, TX 00000

ICIS:

Enforcement Action ID:	TX-200090295
FRS ID:	110010920021
Action Name:	Phone Call - 11/26/13
Facility Name:	CADDO LAKE STATE PARK WWTP
Facility Address:	245 PARK RD 2 HARRISON COUNTY, TX 00000
Enforcement Action Type:	Phone Call/ EMAIL
Facility County:	HARRISON
Program System Acronym:	NPDES
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	PHEMAIL
Facility SIC Code:	4952
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	32.678444
Longitude in Decimal Degrees:	-94.175222
Permit Type Desc:	NPDES Individual Permit
Program System Acronym:	TX0124125
Facility NAICS Code:	Not reported
Tribal Land Code:	Not reported

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41 **CADDO LAKE STATE PARK** **TX UST** **U001253681**
PARK RD 2 OFF OF 2198 **N/A**
KARNACK, TX

UST:

Name:	CADDO LAKE STATE PARK
Address:	PARK RD 2 OFF OF 2198
City,State,Zip:	KARNACK, TX
AI Number:	18767
Facility Type:	FLEET REFUELING
Facility Begin Date:	09/04/1986
Facility Status:	INACTIVE
Additional ID:	761054482002156
Facility Exempt Status:	N
Records Off-Site:	No
UST Financial Assurance Required:	No
Number Of Active UST:	0
Site Location Description:	PARK RD 2 OFF OF 2198
Site Location (Nearest City Name):	KARNACK
Site Location (County Name):	HARRISON
Site Location (Tceq Region):	5
Site Location (Location Zip):	75661
Contact Name/Title:	T E PRITCHARD,PARK SUPT II
Contact Organization Name:	CADDO LAKE STATE PARK
Contact Mailing Address1:	Not reported
Contact Mailing Address2:	Not reported
Contact Mailing City/State/Zip:	Not reported
Contact Telephone:	2146793351
Facility Contact Address Deliverable:	Not reported
Contact Fax Number:	Not reported
Contact Email Address:	Not reported
Signature Date On Earliest Reg Form:	04/03/1986
Signature Name/Title On Earliest Reg Form:	T E PRITCHARD,PARK SUPT II
Application Received Date On Earliest Reg Form:	05/08/1986

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK (Continued) **U001253681**

Signature Role On Earliest Reg Form:	Not reported
Signature Company On Earliest Reg Form:	Not reported
Enforcement Action:	Not reported
Facility Not Inspectable:	No

Owner:

Owner CN:	CN600134852
Owner Last Name:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Owner First Name:	Not reported
Owner Middle Name:	Not reported
Owner Type:	SG
Contact Mailing Address (Delivery):	Not reported
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City:	Not reported
Contact Mailing State:	Not reported
Contact Mailing Zip:	Not reported
Contact Mailing Zip5:	Not reported
Contact Phone Number/Ext:	/
Contact Fax Country Code:	Not reported
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Not reported
Princ ID:	290330462001221
Additional ID:	761054482002156
AI Number:	18767
Owner Effective Begin Date:	09/04/1986
State Tax ID:	Not reported
Contact Role:	Not reported
Contact Name/Title:	/
Contact Organization Name:	Not reported

Tank:

Install Date:	01/01/1964
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	1000
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	48773
Facility ID:	41914
Ai Number:	18767
Tank Id:	106320
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	11/30/1993
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK (Continued) **U001253681**

Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	Not reported

Compartment Records:

Tank ID:	106320
Tank Capacity:	1000
UST Comprt ID:	11620
UST ID:	48773
AI Number:	18767
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK (Continued) **U001253681**

PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

More Self Certification:

Self Cert ID:	7225
Cert ID:	28673
UST Comprt ID:	87876
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Self Cert ID:	7225
Cert ID:	28668
UST Comprt ID:	87881
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Self Cert ID:	7225
Cert ID:	28672
UST Comprt ID:	87877
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Self Cert ID:	7225
Cert ID:	28671
UST Comprt ID:	87878
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Self Cert ID:	7225

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK (Continued) **U001253681**

Cert ID:	28670
UST Comprt ID:	87879
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Self Cert ID:	7225
Cert ID:	28667
UST Comprt ID:	87880
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Self Cert ID:	7225
Cert ID:	28674
UST Comprt ID:	87875
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Self Cert ID:	7225
Cert ID:	28669
UST Comprt ID:	87882
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Install Date:	01/01/1969
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	1000
Tank Singlewall:	Y
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	48774
Facility ID:	41914
Ai Number:	18767
Tank Id:	120776
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	11/30/1993
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	Y
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK (Continued) **U001253681**

Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	Not reported

Compartment Records:

Tank ID:	120776
Tank Capacity:	1000
UST Comprt ID:	11621
UST ID:	48774
AI Number:	18767
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK (Continued) **U001253681**

PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

More Self Certification:

Self Cert ID:	7225
Cert ID:	28673
UST Comprt ID:	87876
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Self Cert ID:	7225
Cert ID:	28668
UST Comprt ID:	87881
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Self Cert ID:	7225
Cert ID:	28672
UST Comprt ID:	87877
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Self Cert ID:	7225
Cert ID:	28671
UST Comprt ID:	87878
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Self Cert ID:	7225

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK (Continued) **U001253681**

Cert ID:	28670
UST Comprt ID:	87879
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Self Cert ID:	7225
Cert ID:	28667
UST Comprt ID:	87880
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Self Cert ID:	7225
Cert ID:	28674
UST Comprt ID:	87875
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A
Self Cert ID:	7225
Cert ID:	28669
UST Comprt ID:	87882
UST ID:	26190
AI Number:	18767
Tank ID:	1
Compartment ID:	A

Facility Billing Contacts:

Contact Organization Name:	TEXAS PARKS & WILDLIFE DEPARTMENT
Contact Mailing Address (Delivery):	4200 SMITH SCHOOL RD
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City/State/Zip:	AUSTIN, TX 78744 3218
Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Y
Facility ID:	41914
Additional ID:	761054482002156
Princ ID:	290330462001221
AI Number:	18767
Facility Name:	CADDO LAKE STATE PARK
AR Number:	Not reported
AR UST Number Suffix:	Not reported
AR AST Number Suffix:	Not reported
Contact Name/Title:	/

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

41 CADDO LAKE STATE PARK WWTP — **TX CENTRAL REGISTRY** — **S126602048**
245 PARK ROAD 2 — **N/A**
KARNACK, TX 75661

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41 CADDO LAKE STATE PARK WWTP — **TX NPDES** — **S117274886**
245 PARK ROAD 2 — **TX ASBESTOS** — **N/A**
KARNACK, TX 75661

NPDES:

Name:	CADDO LAKE STATE PARK WWTP
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661
AI:	WQ0014267001
Facility Id:	11977
Facility Operational Status:	ACTIVE
Facility Disposal Method:	DISCHARGE
EPA Id:	TX0124125
EPA Fac Class:	MINOR
Auth Type:	PUB DOM WW
Approval Date:	02/05/2016
Original Approval Date:	05/02/2002
Expiration Date:	02/01/2021
Auth Status:	ACTIVE
Tpdes State:	TPDES
Permittee Name:	TEXAS PARKS & WILDLIFE DEPARTMENT
Permittee Address:	4200 SMITH SCHOOL RD 53 AUSTIN, TX 78744-3218;4200 SMITH SCHOOL RD AUSTIN, TX 78744
Region:	REGION 05 - TYLER
Secondary Region/County:	Not reported
Site Location:	245 PARK ROAD 2, KARNACK, TX, 75661
Permit Authority:	STATE
Compliance Authority:	STATE
Pretreatment Facility Design:	Not reported
Facility Toxic Rating:	0
Facility Average Design Flow:	0.040000
Loc In Coast Zone:	N
Instit Of High Learn:	N
Bio Energy Facility:	N
Primary Sic Code:	Not reported
Secondary Sic Code:	Not reported
Primary Naics Code:	Not reported
Secondary Naics Code:	Not reported
Segment:	0401
Basin:	04
Animal Type/Count:	Not reported
Latitude:	32.681388
Longitude:	-94.177500

Detail:

NPDES Number:	0124125
Permit Number:	14267-001
Letter:	Not reported
Status:	Current Permit
DTYPE:	D
Initials:	KNS
Latitude:	32.678446999999998
Longitude:	-94.175230999999997
Segment:	0401

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S117274886**

Basin:	04
Region:	05
Horizontal Method:	DRG
Horizontal Accuracy:	12
Horizontal Reference:	other
Horizontal Date:	20050810
Horizontal Organization:	TCEQ
Horizontal Datum:	NAD83
Horizontal Description:	End of pipe as indicated on paper map
UTM Zone:	15

ASBESTOS:

Name:	CADDO LAKE STATE PARK RESTROOM ES#17-575
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661
Date of inspection:	Not reported
Reason for Inspection:	LARRY SNODGRASS
Violation:	Not reported
Complaint Date:	09/12/2017
Notification Number:	2017006410
ASB Priority:	Not reported
PIF State:	Not reported
Detained:	Not reported
Product Name:	Not reported
Time Spent:	Not reported
Travel Time:	Not reported
Mileage:	Not reported
Reg:	Not reported
Init:	Not reported
Seq:	Not reported
Facility Type:	Public
Inspector Name:	Not reported
Date Report Received:	09/14/2017
Date Routed by Supervisor:	Not reported
Date Routed to PSQA:	Not reported
Date Reviewed by PSQA:	Not reported
Date Routed by Supervisor1:	Not reported
Date Rtnd to Inspector Corrections:	Not reported
Date Rcvd Back:	Not reported
Date Rtnd to Inspector Corrections2:	Not reported
Date Rcvd Back 2:	Not reported
Date Rtnd to Inspector Corrections 3:	Not reported
Date Rcvd Back 3:	Not reported
Notification Status:	Cancelled
Amendo:	0
Notification Work Type:	Abatement/Demolition (Both)
Notification Type:	Original
Work Type Flag:	A
Certification Statement Date:	08/25/2017
Certification Statement Phone:	903-534-5001
Is The Facility a School or K-12?:	N
Region:	04
Priority:	LOW
ARU:	8
Is this a phased abatement project?:	N
Ordered:	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S117274886**

Is This Project an Emergency?:	N
Is Building Occupied?:	N
High Profile:	N
Ref Method:	Not reported
Analytical Method:	PLM
Start Date:	09/11/2017
Client Code:	Not reported
Client Name:	Not reported
License Number:	Not reported
File Number:	Not reported
License Status Description:	Not reported
Expiration Date:	Not reported
Original Date:	Not reported
Rank Effective Date:	Not reported
Mod Code:	Not reported
Area:	Not reported
Staff Operator ID:	Not reported
Inspection Number:	Not reported
Inspection Status:	Not reported
Disposition:	Not reported
Inspection Class Descriptio:	Not reported
Inspection Secondary Class Code:	Not reported
Inspection Secondary Class Code Description:	Not reported
Results:	Not reported
Inspection Number Grade:	Not reported

Name:	CADDO LAKE STATE PARK RESTROOM ES#17-575
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661
Date of inspection:	Not reported
Reason for Inspection:	LARRY SNODGRASS
Violation:	Not reported
Complaint Date:	09/20/2017
Notification Number:	2017006410
ASB Priority:	Not reported
PIF State:	Not reported
Detained:	Not reported
Product Name:	Not reported
Time Spent:	Not reported
Travel Time:	Not reported
Mileage:	Not reported
Reg:	Not reported
Init:	Not reported
Seq:	Not reported
Facility Type:	Public
Inspector Name:	Not reported
Date Report Received:	09/14/2017
Date Routed by Supervisor:	Not reported
Date Routed to PSQA:	Not reported
Date Reviewed by PSQA:	Not reported
Date Routed by Supervisor1:	Not reported
Date Rtnd to Inspector Corrections:	Not reported
Date Rcvd Back:	Not reported
Date Rtnd to Inspector Corrections2:	Not reported
Date Rcvd Back 2:	Not reported
Date Rtnd to Inspector Corrections 3:	Not reported
Date Rcvd Back 3:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S117274886**

Notification Status:	Cancelled
Amendo:	0
Notification Work Type:	Abatement/Demolition (Both)
Notification Type:	Original
Work Type Flag:	D
Certification Statement Date:	08/25/2017
Certification Statement Phone:	903-534-5001
Is The Facility a School or K-12?:	N
Region:	04
Priority:	LOW
ARU:	8
Is this a phased abatement project?:	N
Ordered:	N
Is This Project an Emergency?:	N
Is Building Occupied?:	N
High Profile:	N
Ref Method:	Not reported
Analytical Method:	PLM
Start Date:	09/13/2017
Client Code:	Not reported
Client Name:	Not reported
License Number:	Not reported
File Number:	Not reported
License Status Description:	Not reported
Expiration Date:	Not reported
Original Date:	Not reported
Rank Effective Date:	Not reported
Mod Code:	Not reported
Area:	Not reported
Staff Operator ID:	Not reported
Inspection Number:	Not reported
Inspection Status:	Not reported
Disposition:	Not reported
Inspection Class Descriptio:	Not reported
Inspection Secondary Class Code:	Not reported
Inspection Secondary Class Code Description:	Not reported
Results:	Not reported
Inspection Number Grade:	Not reported

Name:	CADDO LAKE STATE PARK RESTROOMS ES#17-575 NEW
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661
Date of inspection:	11/21/2017
Reason for Inspection:	LARRY SNODGRASS
Violation:	Not reported
Complaint Date:	11/16/2017
Notification Number:	2017008435
ASB Priority:	Not reported
PIF State:	Not reported
Detained:	Not reported
Product Name:	Not reported
Time Spent:	Not reported
Travel Time:	Not reported
Mileage:	Not reported
Reg:	Not reported
Init:	Not reported
Seq:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S117274886**

Facility Type:	Public
Inspector Name:	Not reported
Date Report Received:	11/22/2017
Date Routed by Supervisor:	Not reported
Date Routed to PSQA:	Not reported
Date Reviewed by PSQA:	Not reported
Date Routed by Supervisor1:	Not reported
Date Rtnd to Inspector Corrections:	Not reported
Date Rcvd Back:	Not reported
Date Rtnd to Inspector Corrections2:	Not reported
Date Rcvd Back 2:	Not reported
Date Rtnd to Inspector Corrections 3:	Not reported
Date Rcvd Back 3:	Not reported
Notification Status:	Current
Amendo:	1
Notification Work Type:	Abatement/Demolition (Both)
Notification Type:	Amendment
Work Type Flag:	A
Certification Statement Date:	11/17/2017
Certification Statement Phone:	903-534-5001
Is The Facility a School or K-12?:	N
Region:	04
Priority:	LOW
ARU:	8
Is this a phased abatement project?:	N
Ordered:	N
Is This Project an Emergency?:	N
Is Building Occupied?:	N
High Profile:	N
Ref Method:	Not reported
Analytical Method:	PLM
Start Date:	11/16/2017
Client Code:	Not reported
Client Name:	Not reported
License Number:	Not reported
File Number:	Not reported
License Status Description:	Not reported
Expiration Date:	Not reported
Original Date:	Not reported
Rank Effective Date:	Not reported
Mod Code:	Not reported
Area:	Not reported
Staff Operator ID:	Not reported
Inspection Number:	Not reported
Inspection Status:	Not reported
Disposition:	Not reported
Inspection Class Descriptio:	Not reported
Inspection Secondary Class Code:	Not reported
Inspection Secondary Class Code Description:	Not reported
Results:	Not reported
Inspection Number Grade:	Not reported
Name:	CADDO LAKE STATE PARK RESTROOMS ES#17-575 NEW
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661
Date of inspection:	11/21/2017
Reason for Inspection:	LARRY SNODGRASS

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S117274886**

Violation:	Not reported
Complaint Date:	11/24/2017
Notification Number:	2017008435
ASB Priority:	Not reported
PIF State:	Not reported
Detained:	Not reported
Product Name:	Not reported
Time Spent:	Not reported
Travel Time:	Not reported
Mileage:	Not reported
Reg:	Not reported
Init:	Not reported
Seq:	Not reported
Facility Type:	Public
Inspector Name:	Not reported
Date Report Received:	11/22/2017
Date Routed by Supervisor:	Not reported
Date Routed to PSQA:	Not reported
Date Reviewed by PSQA:	Not reported
Date Routed by Supervisor1:	Not reported
Date Rtnd to Inspector Corrections:	Not reported
Date Rcvd Back:	Not reported
Date Rtnd to Inspector Corrections2:	Not reported
Date Rcvd Back 2:	Not reported
Date Rtnd to Inspector Corrections 3:	Not reported
Date Rcvd Back 3:	Not reported
Notification Status:	Current
Amendo:	1
Notification Work Type:	Abatement/Demolition (Both)
Notification Type:	Amendment
Work Type Flag:	D
Certification Statement Date:	11/17/2017
Certification Statement Phone:	903-534-5001
Is The Facility a School or K-12?:	N
Region:	04
Priority:	LOW
ARU:	8
Is this a phased abatement project?:	N
Ordered:	N
Is This Project an Emergency?:	N
Is Building Occupied?:	N
High Profile:	N
Ref Method:	Not reported
Analytical Method:	PLM
Start Date:	11/20/2017
Client Code:	Not reported
Client Name:	Not reported
License Number:	Not reported
File Number:	Not reported
License Status Description:	Not reported
Expiration Date:	Not reported
Original Date:	Not reported
Rank Effective Date:	Not reported
Mod Code:	Not reported
Area:	Not reported
Staff Operator ID:	Not reported
Inspection Number:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S117274886**

Inspection Status:	Not reported
Disposition:	Not reported
Inspection Class Descriptio:	Not reported
Inspection Secondary Class Code:	Not reported
Inspection Secondary Class Code Description:	Not reported
Results:	Not reported
Inspection Number Grade:	Not reported
Name:	CADDO LAKE STATE PARK RESTROOMS ES#17-575 NEW
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661
Date of inspection:	11/21/2017
Reason for Inspection:	LARRY SNODGRASS
Violation:	Not reported
Complaint Date:	11/17/2017
Notification Number:	2017008435
ASB Priority:	Not reported
PIF State:	Not reported
Detained:	Not reported
Product Name:	Not reported
Time Spent:	Not reported
Travel Time:	Not reported
Mileage:	Not reported
Reg:	Not reported
Init:	Not reported
Seq:	Not reported
Facility Type:	Public
Inspector Name:	Not reported
Date Report Received:	11/14/2017
Date Routed by Supervisor:	Not reported
Date Routed to PSQA:	Not reported
Date Reviewed by PSQA:	Not reported
Date Routed by Supervisor1:	Not reported
Date Rtnd to Inspector Corrections:	Not reported
Date Rcvd Back:	Not reported
Date Rtnd to Inspector Corrections2:	Not reported
Date Rcvd Back 2:	Not reported
Date Rtnd to Inspector Corrections 3:	Not reported
Date Rcvd Back 3:	Not reported
Notification Status:	Current/Has Amendment
Amendo:	0
Notification Work Type:	Abatement/Demolition (Both)
Notification Type:	Original
Work Type Flag:	A
Certification Statement Date:	11/02/2017
Certification Statement Phone:	903-534-5001
Is The Facility a School or K-12?:	N
Region:	04
Priority:	LOW
ARU:	8
Is this a phased abatement project?:	N
Ordered:	N
Is This Project an Emergency?:	N
Is Building Occupied?:	N
High Profile:	N
Ref Method:	Not reported
Analytical Method:	PLM

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S117274886**

Start Date:	11/16/2017
Client Code:	Not reported
Client Name:	Not reported
License Number:	Not reported
File Number:	Not reported
License Status Description:	Not reported
Expiration Date:	Not reported
Original Date:	Not reported
Rank Effective Date:	Not reported
Mod Code:	Not reported
Area:	Not reported
Staff Operator ID:	Not reported
Inspection Number:	Not reported
Inspection Status:	Not reported
Disposition:	Not reported
Inspection Class Descriptio:	Not reported
Inspection Secondary Class Code:	Not reported
Inspection Secondary Class Code Description:	Not reported
Results:	Not reported
Inspection Number Grade:	Not reported
Name:	CADDO LAKE STATE PARK RESTROOMS ES#17-575 NEW
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661
Date of inspection:	11/21/2017
Reason for Inspection:	LARRY SNODGRASS
Violation:	Not reported
Complaint Date:	11/24/2017
Notification Number:	2017008435
ASB Priority:	Not reported
PIF State:	Not reported
Detained:	Not reported
Product Name:	Not reported
Time Spent:	Not reported
Travel Time:	Not reported
Mileage:	Not reported
Reg:	Not reported
Init:	Not reported
Seq:	Not reported
Facility Type:	Public
Inspector Name:	Not reported
Date Report Received:	11/14/2017
Date Routed by Supervisor:	Not reported
Date Routed to PSQA:	Not reported
Date Reviewed by PSQA:	Not reported
Date Routed by Supervisor1:	Not reported
Date Rtnd to Inspector Corrections:	Not reported
Date Rcvd Back:	Not reported
Date Rtnd to Inspector Corrections2:	Not reported
Date Rcvd Back 2:	Not reported
Date Rtnd to Inspector Corrections 3:	Not reported
Date Rcvd Back 3:	Not reported
Notification Status:	Current/Has Amendment
Amendo:	0
Notification Work Type:	Abatement/Demolition (Both)
Notification Type:	Original
Work Type Flag:	D

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S117274886**

Certification Statement Date:	11/02/2017
Certification Statement Phone:	903-534-5001
Is The Facility a School or K-12?:	N
Region:	04
Priority:	LOW
ARU:	8
Is this a phased abatement project?:	N
Ordered:	N
Is This Project an Emergency?:	N
Is Building Occupied?:	N
High Profile:	N
Ref Method:	Not reported
Analytical Method:	PLM
Start Date:	11/20/2017
Client Code:	Not reported
Client Name:	Not reported
License Number:	Not reported
File Number:	Not reported
License Status Description:	Not reported
Expiration Date:	Not reported
Original Date:	Not reported
Rank Effective Date:	Not reported
Mod Code:	Not reported
Area:	Not reported
Staff Operator ID:	Not reported
Inspection Number:	Not reported
Inspection Status:	Not reported
Disposition:	Not reported
Inspection Class Descriptio:	Not reported
Inspection Secondary Class Code:	Not reported
Inspection Secondary Class Code Description:	Not reported
Results:	Not reported
Inspection Number Grade:	Not reported

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41 **CADDO LAKE STATE PARK WWTP** **FINDS** **1011337999**
245 PARK ROAD 2 **N/A**
KARNACK, TX 75661

FINDS:
Registry ID: 110034523264

Click Here:

Environmental Interest/Information System:
Texas Commission on Environmental Quality - Agency Central Registry (TX-TCEQ ACR) is a computer application that allows the Texas Commission on Environmental Quality (TCEQ) to use a single, centralized area to record common information, such as the company names, addresses, and telephone numbers of those the TCEQ regulates. It also contains additional IDs (permits, registrations, authorizations, etc) and their status.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
41	**TPWD CADDO LAKE STATE PARK** **245 PARK ROAD 2** **KARNACK, TX 75661**	**TX ENF**	**S126421420** **N/A**

ENFORCEMENT:

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	JANELLE TAYLOR
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	TCEQ COORDINATOR
Investigation Num:	000000000969861
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	152,577,482,011,343.00
Role Code:	RECONT
Date Notice Of Violation Issued:	12/19/2011
Description 1:	Failure to provide the cover on each ground storage tank with a gravity-hinged and weighted cover that fits tightly with no gap over 1/16 inch.
Description 2:	On January 10, 2012 and February 6, 2012, the water system sent correspondence with photographs, indicating that the gap had been repaired.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.43(c)(3)
Status Of The NOV:	DAPPROVED
Investigation:	969861
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	JANELLE TAYLOR
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	TCEQ COORDINATOR

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Investigation Num:	000000000969861
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	152,577,482,011,343.00
Role Code:	NOV CONT
Date Notice Of Violation Issued:	12/19/2011
Description 1:	Failure to provide the cover on each ground storage tank with a gravity-hinged and weighted cover that fits tightly with no gap over 1/16 inch.
Description 2:	On January 10, 2012 and February 6, 2012, the water system sent correspondence with photographs, indicating that the gap had been repaired.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.43(c)(3)
Status Of The NOV:	DAPPROVED
Investigation:	969861
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	JANELLE TAYLOR
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	TCEQ COORDINATOR
Investigation Num:	000000000969861
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	152,577,482,011,343.00
Role Code:	REGMAIL

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Date Notice Of Violation Issued:	12/19/2011
Description 1:	Failure to provide the cover on each ground storage tank with a gravity-hinged and weighted cover that fits tightly with no gap over 1/16 inch.
Description 2:	On January 10, 2012 and February 6, 2012, the water system sent correspondence with photographs, indicating that the gap had been repaired.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.43(c)(3)
Status Of The NOV:	DAPPROVED
Investigation:	969861
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	JANELLE TAYLOR
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	TCEQ COORDINATOR
Investigation Num:	000000000969861
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	152,577,482,011,343.00
Role Code:	NOTIFIED
Date Notice Of Violation Issued:	12/19/2011
Description 1:	Failure to provide the cover on each ground storage tank with a gravity-hinged and weighted cover that fits tightly with no gap over 1/16 inch.
Description 2:	On January 10, 2012 and February 6, 2012, the water system sent correspondence with photographs, indicating that the gap had been repaired.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.43(c)(3)
Status Of The NOV:	DAPPROVED

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Investigation:	969861
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	JANELLE TAYLOR
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	TCEQ COORDINATOR
Investigation Num:	000000000969861
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	152,577,482,011,343.00
Role Code:	PARTICIPAT
Date Notice Of Violation Issued:	12/19/2011
Description 1:	Failure to provide the cover on each ground storage tank with a gravity-hinged and weighted cover that fits tightly with no gap over 1/16 inch.
Description 2:	On January 10, 2012 and February 6, 2012, the water system sent correspondence with photographs, indicating that the gap had been repaired.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.43(c)(3)
Status Of The NOV:	DAPPROVED
Investigation:	969861
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001435374
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	945,456,972,017,233.00
Role Code:	Not reported
Date Notice Of Violation Issued:	08/31/2017
Description 1:	Failure to conduct annual tank inspections.
Description 2:	During the file review, the investigator reviewed tank inspection forms completed by water system personnel. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(m)(1)
Status Of The NOV:	DAPPROVED
Investigation:	1435374
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001435374
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	945,456,972,017,233.00
Role Code:	Not reported
Date Notice Of Violation Issued:	08/31/2017
Description 1:	Failure to provide a distribution map.
Description 2:	During the file review, the investigator reviewed photographic documentation of a distribution map for the water system. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(n)
Status Of The NOV:	DAPPROVED
Investigation:	1435374
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001435374
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	945,456,972,017,233.00
Role Code:	Not reported
Date Notice Of Violation Issued:	08/31/2017
Description 1:	Failure to record chemical usage on a weekly basis.
Description 2:	During the file review, the investigator reviewed a log sheet used for recording the chemical usage on a weekly basis. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(f)(3)(A)(i)(III)
Status Of The NOV:	DAPPROVED
Investigation:	1435374
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001435374
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	945,456,972,017,233.00
Role Code:	Not reported
Date Notice Of Violation Issued:	08/31/2017
Description 1:	Failure to flush all dead-end mains on a monthly basis.
Description 2:	During the file review, the investigator reviewed a log sheet used for recording the flushing of dead-end mains on a monthly basis. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(l)
Status Of The NOV:	DAPPROVED
Investigation:	1435374
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001435374
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	945,456,972,017,233.00
Role Code:	Not reported
Date Notice Of Violation Issued:	08/31/2017
Description 1:	Failure to provide 16-mesh or finer screen on vent of ground storage tank.
Description 2:	During the file review, the investigator reviewed photographic documentation of mesh screen on the vent of the ground storage tank. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.43(c)(1)
Status Of The NOV:	DAPPROVED
Investigation:	1435374
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001435374
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	945,456,972,017,233.00
Role Code:	Not reported
Date Notice Of Violation Issued:	08/31/2017
Description 1:	Failure to have the master meter calibrated once every three years.
Description 2:	During the file review, the investigator reviewed an invoice showing the master meter had been calibrated. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(s)(1)
Status Of The NOV:	DAPPROVED
Investigation:	1435374
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001435374
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	945,456,972,017,233.00
Role Code:	Not reported
Date Notice Of Violation Issued:	08/31/2017
Description 1:	Failure to provide an in-line air filter on air injection lines.
Description 2:	During the file review, the investigator reviewed photographic documentation of an in-line filter on the air injection lines. This alleged violation will be resolved.
Category Of The NOV:	Minor

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.43(d)(3)
Status Of The NOV:	DAPPROVED
Investigation:	1435374
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001435374
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	945,456,972,017,233.00
Role Code:	Not reported
Date Notice Of Violation Issued:	08/31/2017
Description 1:	Failure to maintain water system facilities.
Description 2:	During the file review, the investigator reviewed photographic documentation of the repairs to the ground storage tank. The water system also submitted an email correspondence verifying the leaking pump had been removed and was being repaired. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(m)
Status Of The NOV:	DAPPROVED
Investigation:	1435374
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001447235
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	543,589,502,017,290.00
Role Code:	Not reported
Date Notice Of Violation Issued:	10/31/2017
Description 1:	Failure to flush all dead-end mains on a monthly basis.
Description 2:	During the file review, the investigator reviewed a log sheet used for recording the flushing of dead-end mains on a monthly basis. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(l)
Status Of The NOV:	DAPPROVED
Investigation:	1447235
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001447235

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	543,589,502,017,290.00
Role Code:	Not reported
Date Notice Of Violation Issued:	10/31/2017
Description 1:	Failure to record chemical usage on a weekly basis.
Description 2:	During the file review, the investigator reviewed a log sheet used for recording the chemical usage on a weekly basis. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(f)(3)(A)(i)(III)
Status Of The NOV:	DAPPROVED
Investigation:	1447235
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001447235
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	543,589,502,017,290.00
Role Code:	Not reported
Date Notice Of Violation Issued:	10/31/2017
Description 1:	Failure to provide a distribution map.
Description 2:	During the file review, the investigator reviewed photographic

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

	documentation of a distribution map for the water system. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(n)
Status Of The NOV:	DAPPROVED
Investigation:	1447235
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001447235
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	543,589,502,017,290.00
Role Code:	Not reported
Date Notice Of Violation Issued:	10/31/2017
Description 1:	Failure to conduct annual tank inspections.
Description 2:	During the file review, the investigator reviewed tank inspection forms completed by water system personnel. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(m)(1)
Status Of The NOV:	DAPPROVED
Investigation:	1447235
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001447235
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	543,589,502,017,290.00
Role Code:	Not reported
Date Notice Of Violation Issued:	10/31/2017
Description 1:	Failure to provide an in-line air filter on air injection lines.
Description 2:	During the file review, the investigator reviewed photographic documentation of an in-line filter on the air injection lines. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.43(d)(3)
Status Of The NOV:	DAPPROVED
Investigation:	1447235
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Investigation Num:	000000001447235
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	543,589,502,017,290.00
Role Code:	Not reported
Date Notice Of Violation Issued:	10/31/2017
Description 1:	Failure to maintain water system facilities.
Description 2:	During the file review, the investigator reviewed photographic documentation of the repairs to the ground storage tank. The water system also submitted an email correspondence verifying the leaking pump had been removed and was being repaired. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(m)
Status Of The NOV:	DAPPROVED
Investigation:	1447235
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001447235
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	543,589,502,017,290.00
Role Code:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Date Notice Of Violation Issued:	10/31/2017
Description 1:	Failure to have the master meter calibrated once every three years.
Description 2:	During the file review, the investigator reviewed an invoice showing the master meter had been calibrated. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(s)(1)
Status Of The NOV:	DAPPROVED
Investigation:	1447235
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001447235
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	543,589,502,017,290.00
Role Code:	Not reported
Date Notice Of Violation Issued:	10/31/2017
Description 1:	Failure to provide 16-mesh or finer screen on vent of ground storage tank.
Description 2:	During the file review, the investigator reviewed photographic documentation of mesh screen on the vent of the ground storage tank. This alleged violation will be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.43(c)(1)
Status Of The NOV:	DAPPROVED
Investigation:	1447235
Investigation ID:	Not reported
Regulated Entity ID:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	TPWD CADDO LAKE STATE PARK
Address:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
City,State,Zip:	TX
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	TODD DICKINSON
Owner/operator Of A Regulated Entity:	TEXAS PARKS & WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	PARK MANAGER
Investigation Num:	Not reported
Status Code:	Not reported
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	Not reported
Nearest City:	Not reported
State Location:	Not reported
Zip Location:	Not reported
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	Not reported
Role Code:	Not reported
Date Notice Of Violation Issued:	05/25/2007
Description 1:	Failure to maintain fence to latch securely at gate.
Description 2:	On May 3, 2007, photographs were received by electronic mail showing that the gate had been repaired so that it was able to latch securely.
	Not reported
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	WATER
TCEQ Rule # Cited For The Violation:	290.46(m)
Status Of The NOV:	RESOLVED
Investigation:	Not reported
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	TPWD CADDO LAKE STATE PARK
Address:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
City,State,Zip:	TX
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Contact Person For The Reg. Entity:	TODD DICKINSON
Owner/operator Of A Regulated Entity:	TEXAS PARKS & WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	PARK MANAGER
Investigation Num:	Not reported
Status Code:	Not reported
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	Not reported
Nearest City:	Not reported
State Location:	Not reported
Zip Location:	Not reported
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	Not reported
Role Code:	Not reported
Date Notice Of Violation Issued:	05/25/2007
Description 1:	Failure to conduct, or contract out, the inspections of the ground storage and pressure tanks during the last year.
Description 2:	On June 25, 2007, the water system provided the results of inspections of the ground storage and pressure tanks.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	WATER
TCEQ Rule # Cited For The Violation:	290.46(m)(1)
Status Of The NOV:	RESOLVED
Investigation:	Not reported
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001637284
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Nov Id:	542,413,162,020,079.00
Role Code:	Not reported
Date Notice Of Violation Issued:	04/03/2020
Description 1:	Failure to have public water system's operating records accessible for review, and available at the time of the inspection.
Description 2:	The water system submitted the required operating records, including the well plugging report.
Category Of The NOV:	Moderate
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(f)(3)(E)(iv)
Status Of The NOV:	DAPPROVED
Investigation:	1637284
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001637284
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	542,413,162,020,079.00
Role Code:	Not reported
Date Notice Of Violation Issued:	04/03/2020
Description 1:	Failure to submit accurate and up-to-date detailed as-built plans.
Description 2:	The water system submitted the required up-to-date as-built plans.
Category Of The NOV:	Moderate
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(n)(1)
Status Of The NOV:	DAPPROVED
Investigation:	1637284
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001637284
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	542,413,162,020,079.00
Role Code:	Not reported
Date Notice Of Violation Issued:	04/03/2020
Description 1:	Failure to have public water system’s operating records accessible for review, and available at the time of the inspection.
Description 2:	The water system submitted the required operating records, including the well plugging report.
Category Of The NOV:	Moderate
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(f)(2)
Status Of The NOV:	DAPPROVED
Investigation:	1637284
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001637284
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	542,413,162,020,079.00
Role Code:	Not reported
Date Notice Of Violation Issued:	04/03/2020
Description 1:	Failure to notify the executive director prior to making any significant change or addition to the system's production, treatment, storage, pressure maintenance, or distribution facilities.
Description 2:	The water system submitted the required notification to the excutive director.
Category Of The NOV:	Moderate
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.39(j)
Status Of The NOV:	DAPPROVED
Investigation:	1637284
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001637284
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Nov Id:	542,413,162,020,079.00
Role Code:	Not reported
Date Notice Of Violation Issued:	04/03/2020
Description 1:	Failure to notify the executive director prior to making any significant change or addition to the system's production, treatment, storage, pressure maintenance, or distribution facilities.
Description 2:	The water system submitted the required notification to the excutive director.
Category Of The NOV:	Moderate
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.39(j)(2)
Status Of The NOV:	DAPPROVED
Investigation:	1637284
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001637284
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	542,413,162,020,079.00
Role Code:	Not reported
Date Notice Of Violation Issued:	04/03/2020
Description 1:	Failure to submit accurate and up-to-date detailed as-built plans.
Description 2:	The water system submitted the required up-to-date as-built plans.
Category Of The NOV:	Moderate
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(n)
Status Of The NOV:	DAPPROVED
Investigation:	1637284
Investigation ID:	Not reported
Regulated Entity ID:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001637284
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	542,413,162,020,079.00
Role Code:	Not reported
Date Notice Of Violation Issued:	04/03/2020
Description 1:	Failure to have public water system’s operating records accessible for review, and available at the time of the inspection.
Description 2:	The water system submitted the required operating records, including the well plugging report.
Category Of The NOV:	Moderate
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.44(h)(1)(B)(ii)
Status Of The NOV:	DAPPROVED
Investigation:	1637284
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	TPWD CADDO LAKE STATE PARK
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661-3921
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN101181626

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

TPWD CADDO LAKE STATE PARK (Continued) **S126421420**

Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	000000001637284
Status Code:	RESOLVED
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	LOCATION AT FM 134 AND FM 2198 IN HARRISON CO
Nearest City:	KARNACK
State Location:	Not reported
Zip Location:	75661
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	542,413,162,020,079.00
Role Code:	Not reported
Date Notice Of Violation Issued:	04/03/2020
Description 1:	Failure to have public water system's operating records accessible for review, and available at the time of the inspection.
Description 2:	The water system submitted the required operating records, including the well plugging report.
Category Of The NOV:	Moderate
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	Not reported
TCEQ Rule # Cited For The Violation:	290.46(n)(2)
Status Of The NOV:	DAPPROVED
Investigation:	1637284
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

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41 **CADDO LAKE STATE PARK WWTP** **FINDS 1018322779**
245 PARK RD 2 **ECHO N/A**
KARNACK, TX 75661

FINDS:
Registry ID: 110010920021

Click Here:

Environmental Interest/Information System:
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **1018322779**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1018322779
Registry ID:	110010920021
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110010920021
Name:	CADDO LAKE STATE PARK WWTP
Address:	245 PARK RD 2
City,State,Zip:	KARNACK, TX 75661

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41 **CADDO LAKE STATE PARK WWTP** **TX ENF S107652265**
245 PARK ROAD 2 **TX COMP HIST N/A**
KARNACK, TX 75661

ENFORCEMENT:

Name:	CADDO LAKE STATE PARK WWTP
Address:	LOCATED APPROX. 2000 FEET NORTH OF THE INTERSECTION OF STATE HIGHWAY 134 AND 2198.
City,State,Zip:	TX
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN103016200
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS & WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	Not reported
Status Code:	Not reported
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	Not reported
Nearest City:	Not reported
State Location:	Not reported
Zip Location:	Not reported
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	Not reported
Role Code:	Not reported
Date Notice Of Violation Issued:	01/31/2004
Description 1:	Failure to meet the limit for one or more permit parameter
Description 2:	Not reported
Category Of The NOV:	Moderate
Method Of Notice Issuance:	MAND SR
TCEQ Prog Area Monitoring Violation:	WATER
TCEQ Rule # Cited For The Violation:	26.121(a)[G]
Status Of The NOV:	ACTIVE
Investigation:	Not reported
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S107652265**

Name:	CADDO LAKE STATE PARK WWTP
Address:	LOCATED APPROX. 2000 FEET NORTH OF THE INTERSECTION OF STATE HIGHWAY 134 AND 2198.
City,State,Zip:	TX
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN103016200
Contact Person For The Reg. Entity:	TODD DICKINSON
Owner/operator Of A Regulated Entity:	TEXAS PARKS & WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	PARK MANAGER
Investigation Num:	Not reported
Status Code:	Not reported
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	Not reported
Nearest City:	Not reported
State Location:	Not reported
Zip Location:	Not reported
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	Not reported
Role Code:	Not reported
Date Notice Of Violation Issued:	07/20/2004
Description 1:	Failure to meet the permitted effluent limits for Biochemical Oxygen Demand and Total Suspended Solids.
Description 2:	Not reported
Category Of The NOV:	Moderate
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	WATER
TCEQ Rule # Cited For The Violation:	305.125(1)
Status Of The NOV:	RESOLVED
Investigation:	Not reported
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	CADDO LAKE STATE PARK WWTP
Address:	245 PARK ROAD 2
City,State,Zip:	KARNACK, TX 75661
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN103016200
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	30 TAC Chapter 305, SubChapter F
Regulated Entity Associated With An NOV:	TEXAS PARKS AND WILDLIFE DEPARTMENT
Org Title Of The Contact Person:	Not reported
Investigation Num:	1498684
Status Code:	URESOSCHED
Status Date:	10/26/2018
Violation Tracking Num:	561,405,382,018,177.00
Physical Location:	LOCATED APPROX 2000 FEET NORTH OF THE INTERSECTION OF STATE HIGHWAY 13

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S107652265**

Nearest City:	Not reported
State Location:	TX
Zip Location:	75661
Violation Date:	2019-01-10 00:00:00
Violation Category:	Category A violations require automatic initiation of formal enforcement action when discovered. The Areas of Concern criteria do not apply to Category A violations.
Nov Id:	Not reported
Role Code:	Not reported
Date Notice Of Violation Issued:	Not reported
Description 1:	Failure to comply with permit effluent limits as documented by a TCEQ record review of self-reported data.
Description 2:	Not reported
Category Of The NOV:	Not reported
Method Of Notice Issuance:	Not reported
TCEQ Prog Area Monitoring Violation:	WATER
TCEQ Rule # Cited For The Violation:	Not reported
Status Of The NOV:	DAPPROVED
Investigation:	Not reported
Investigation ID:	580318182018177
Regulated Entity ID:	268538602003062
Date of Notice Enforcement:	10/24/2018
Rejected:	NO
Type Code:	COMPAGREE
Date Resolved:	01/10/2019
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	CADDO LAKE STATE PARK WWTP
Address:	LOCATED APPROX. 2000 FEET NORTH OF THE INTERSECTION OF STATE HIGHWAY 134 AND 2198.
City,State,Zip:	TX
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN103016200
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS & WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	Not reported
Status Code:	Not reported
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	Not reported
Nearest City:	Not reported
State Location:	Not reported
Zip Location:	Not reported
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	Not reported
Role Code:	Not reported
Date Notice Of Violation Issued:	02/28/2005
Description 1:	Failure to meet the limit for one or more permit parameter
Description 2:	Not reported
Category Of The NOV:	Moderate
Method Of Notice Issuance:	MAND SR

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S107652265**

TCEQ Prog Area Monitoring Violation:	WATER
TCEQ Rule # Cited For The Violation:	305.125(1)
Status Of The NOV:	ACTIVE
Investigation:	Not reported
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	CADDO LAKE STATE PARK WWTP
Address:	LOCATED APPROX. 2000 FEET NORTH OF THE INTERSECTION OF STATE HIGHWAY 134 AND 2198.
City,State,Zip:	TX
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN103016200
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS & WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	Not reported
Status Code:	Not reported
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	Not reported
Nearest City:	Not reported
State Location:	Not reported
Zip Location:	Not reported
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	Not reported
Role Code:	Not reported
Date Notice Of Violation Issued:	05/08/2009
Description 1:	Failure to meet permit effluent limitations.
Description 2:	On May 4, 2009 the Tyler Region Office received a facsimile transmittal (FAX) from the Caddo Lake State Park wastewater operator which included a Monthly Operating Report for the month of April 2009, and a laboratory data sheet for the effluent samples collected between April 2, and April 23, 2009. The submitted data indicates that the treatment facility is in compliance with the effluent limitations for pH and chlorine residual. These violations are considered to be resolved.
Category Of The NOV:	Minor
Method Of Notice Issuance:	WRITTEN
TCEQ Prog Area Monitoring Violation:	WATER
TCEQ Rule # Cited For The Violation:	305.125(1)
Status Of The NOV:	RESOLVED
Investigation:	Not reported
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S107652265**

Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	CADDO LAKE STATE PARK WWTP
Address:	LOCATED APPROX. 2000 FEET NORTH OF THE INTERSECTION OF STATE HIGHWAY 134 AND 2198.
City,State,Zip:	TX
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN103016200
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS & WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	Not reported
Status Code:	Not reported
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	Not reported
Nearest City:	Not reported
State Location:	Not reported
Zip Location:	Not reported
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	Not reported
Role Code:	Not reported
Date Notice Of Violation Issued:	03/31/2009
Description 1:	Failure to meet the limit for one or more permit parameter
Description 2:	Not reported
Category Of The NOV:	Moderate
Method Of Notice Issuance:	MAND SR
TCEQ Prog Area Monitoring Violation:	WATER
TCEQ Rule # Cited For The Violation:	26.121(a)
Status Of The NOV:	ACTIVE
Investigation:	Not reported
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	CADDO LAKE STATE PARK WWTP
Address:	LOCATED APPROX. 2000 FEET NORTH OF THE INTERSECTION OF STATE HIGHWAY 134 AND 2198.
City,State,Zip:	TX
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN103016200
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS & WILDLIFE DEPARTMENT

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S107652265**

Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	Not reported
Status Code:	Not reported
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	Not reported
Nearest City:	Not reported
State Location:	Not reported
Zip Location:	Not reported
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	Not reported
Role Code:	Not reported
Date Notice Of Violation Issued:	07/31/2008
Description 1:	Failure to meet the limit for one or more permit parameter
Description 2:	Not reported
Category Of The NOV:	Moderate
Method Of Notice Issuance:	MAND SR
TCEQ Prog Area Monitoring Violation:	WATER
TCEQ Rule # Cited For The Violation:	26.121(a)
Status Of The NOV:	ACTIVE
Investigation:	Not reported
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported
Name:	CADDO LAKE STATE PARK WWTP
Address:	LOCATED APPROX. 2000 FEET NORTH OF THE INTERSECTION OF STATE HIGHWAY 134 AND 2198.
City,State,Zip:	TX
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN103016200
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS & WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	Not reported
Status Code:	Not reported
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	Not reported
Nearest City:	Not reported
State Location:	Not reported
Zip Location:	Not reported
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	Not reported
Role Code:	Not reported
Date Notice Of Violation Issued:	11/30/2006

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S107652265**

Description 1:	Failure to meet the limit for one or more permit parameter
Description 2:	Not reported
Category Of The NOV:	Moderate
Method Of Notice Issuance:	MAND SR
TCEQ Prog Area Monitoring Violation:	WATER
TCEQ Rule # Cited For The Violation:	26.121(a)
Status Of The NOV:	ACTIVE
Investigation:	Not reported
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported
Deferred Amount:	Not reported
Payable Amount:	Not reported
Supplemental Env Project Offset Amount:	Not reported

Name:	CADDO LAKE STATE PARK WWTP
Address:	LOCATED APPROX. 2000 FEET NORTH OF THE INTERSECTION OF STATE HIGHWAY 134 AND 2198.
City,State,Zip:	TX
Unique TCEQ Ref # Of Customer:	CN600134852
Unique TCEQ Ref # Of Reg. Entity:	RN103016200
Contact Person For The Reg. Entity:	Not reported
Owner/operator Of A Regulated Entity:	TEXAS PARKS & WILDLIFE DEPARTMENT
Regulated Entity Associated With An NOV:	Not reported
Org Title Of The Contact Person:	Not reported
Investigation Num:	Not reported
Status Code:	Not reported
Status Date:	Not reported
Violation Tracking Num:	Not reported
Physical Location:	Not reported
Nearest City:	Not reported
State Location:	Not reported
Zip Location:	Not reported
Violation Date:	Not reported
Violation Category:	Not reported
Nov Id:	Not reported
Role Code:	Not reported
Date Notice Of Violation Issued:	02/29/2004
Description 1:	Failure to meet the limit for one or more permit parameter
Description 2:	Not reported
Category Of The NOV:	Moderate
Method Of Notice Issuance:	MAND SR
TCEQ Prog Area Monitoring Violation:	WATER
TCEQ Rule # Cited For The Violation:	26.121(a)[G]
Status Of The NOV:	ACTIVE
Investigation:	Not reported
Investigation ID:	Not reported
Regulated Entity ID:	Not reported
Date of Notice Enforcement:	Not reported
Rejected:	Not reported
Type Code:	Not reported
Date Resolved:	Not reported
Assessed Amount:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

CADDO LAKE STATE PARK WWTP (Continued) **S107652265**

Deferred Amount: Not reported
Payable Amount: Not reported
Supplemental Env Project Offset Amount: Not reported

COMP HIST:
RN Number: RN103016200
Name: CADDO LAKE STATE PARK WWTP
Address: LOCATED APPROX. 2000 FEET NORTH OF THE INTERSECTION OF STATE HIGHWAY 134 AND 219
City,State,Zip: TX
Region: REGION 05 - TYLER
CN Number: CN600134852
CN Name: TEXAS PARKS AND WILDLIFE DEPARTMENT
CN Rating: 1.52
Classification: SATISFACTORY
Date Calculated: 09/01/2020
Date Published to Web: 11/16/2020
Rating: 4
Classification 2: SATISFACTORY
Date Rated 2: 09/01/2020
Date Published to Web 2: 11/15/2020
NAICS Code: 721211
SIC Code: 9621
Related Number: 50253,WQ0014267001,TX0124125,TX0124125

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41 **TPWD CADDO LAKE STATE PARK** **TX CENTRAL REGISTRY** **S126512853**
245 PARK ROAD 2 **N/A**
KARNACK, TX 75661

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42 **THE GROCERY BARN** **TX CENTRAL REGISTRY** **S126552878**
HWY 134 & 43 **N/A**
KARNACK, TX 75661

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42 **GROCERY BARN** **TX LPST** **S116699761**
HWY 134 **N/A**
KARNACK, TX 75661

LPST:
Name: GROCERY BARN
Address: HWY 134
City,State,Zip: KARNACK, TX 75661
Facility ID: 0059822
LPST Id: 113599
Facility Location: HWY 134 & HWY 43 N
TCEQ Region# and City: REGION 05 - TYLER
Region City: TYLER
Discovered Date: 04/26/2002
Entered Date: 11/05/1998
Reported Date: 06/18/1998

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

GROCERY BARN (Continued) **S116699761**

Closure Date:	06/17/1998
Priority:	3.1 - GW IMPACT PUB/DOM WATER SUPPLY WELL W/IN .25 - .5mi
Program:	1P - PRIVATIZATION CONTRACTOR
CA Status:	6A - FINAL CONCURRENCE ISSUED
Priority Description:	Groundwater is affected and a public or domestic water supply well is located between 0.25 and 0.5 miles from the UST/AST system or source area.
Status:	**FINAL CONCURRENCE ISSUED, CASE CLOSED**
Coordinators Primary:	1P/1/1P/1
Coordinators RPR:	RWD
Responsible Party Name:	Not reported
Responsible Party Contact:	MAGGIE REEVES
Responsible Party Address:	PO BOX 162
Responsible Party City,St,Zip:	KARNACK, TX 75661
Responsible Party Telephone:	903/935-4365
Reported Date:	06/18/1998
Case Start Date:	06/17/1998

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42 **THE HAIR CONNECTION** **TX UST** **U001289054**
FM 134 & TX HWY 43 **N/A**
KARNACK, TX

UST:

Name:	THE HAIR CONNECTION
Address:	FM 134 & TX HWY 43
City,State,Zip:	KARNACK, TX
AI Number:	59519
Facility Type:	RETAIL
Facility Begin Date:	08/23/1991
Facility Status:	INACTIVE
Additional ID:	495714592002116
Facility Exempt Status:	N
Records Off-Site:	No
UST Financial Assurance Required:	No
Number Of Active UST:	0
Site Location Description:	FM 134 & TX HWY 43
Site Location (Nearest City Name):	KARNACK
Site Location (County Name):	HARRISON
Site Location (Tceq Region):	5
Site Location (Location Zip):	75661
Contact Name/Title:	SAMMIE IRVING,
Contact Organization Name:	THE HAIR CONNECTION
Contact Mailing Address1:	Not reported
Contact Mailing Address2:	Not reported
Contact Mailing City/State/Zip:	Not reported
Contact Telephone:	9036794047
Facility Contact Address Deliverable:	Not reported
Contact Fax Number:	Not reported
Contact Email Address:	Not reported
Signature Date On Earliest Reg Form:	08/16/1991
Signature Name/Title On Earliest Reg Form:	T R JACKSON,V.PRES
Application Received Date On Earliest Reg Form:	08/21/1991
Signature Role On Earliest Reg Form:	Not reported
Signature Company On Earliest Reg Form:	Not reported
Enforcement Action:	Not reported
Facility Not Inspectable:	No

Owner:

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE HAIR CONNECTION (Continued) **U001289054**

Owner CN:	CN601100944
Owner Last Name:	BANK ONE TEXAS TRUSTEE-TAYLOR
Owner First Name:	Not reported
Owner Middle Name:	Not reported
Owner Type:	OR
Contact Mailing Address (Delivery):	Not reported
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City:	Not reported
Contact Mailing State:	Not reported
Contact Mailing Zip:	Not reported
Contact Mailing Zip5:	Not reported
Contact Phone Number/Ext:	/
Contact Fax Country Code:	Not reported
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Not reported
Princ ID:	504714582002116
Additional ID:	495714592002116
AI Number:	59519
Owner Effective Begin Date:	08/23/1991
State Tax ID:	Not reported
Contact Role:	Not reported
Contact Name/Title:	/
Contact Organization Name:	Not reported

Tank:

Install Date:	08/31/1987
Tank Registration Date:	08/21/1991
Number of Compartments:	1
Tank Capacity:	Not reported
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	140587
Facility ID:	89901
Ai Number:	59519
Tank Id:	2
Tank Status (Current):	PERM FILLED IN PLACE
Tank Status Date:	01/01/1988
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	N
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE HAIR CONNECTION (Continued) **U001289054**

Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	08/16/1991

Compartment Records:

Tank ID:	2
Tank Capacity:	Not reported
UST Comprt ID:	145759
UST ID:	140587
AI Number:	59519
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE HAIR CONNECTION (Continued) **U001289054**

PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

Install Date:	08/31/1987
Tank Registration Date:	08/21/1991
Number of Compartments:	1
Tank Capacity:	Not reported
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	140588
Facility ID:	89901
Ai Number:	59519
Tank Id:	1
Tank Status (Current):	PERM FILLED IN PLACE
Tank Status Date:	01/01/1988
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	N
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	N
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE HAIR CONNECTION (Continued) **U001289054**

TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	08/16/1991

Compartment Records:

Tank ID:	1
Tank Capacity:	Not reported
UST Comprt ID:	145760
UST ID:	140588
AI Number:	59519
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE HAIR CONNECTION (Continued) **U001289054**

Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

Facility Billing Contacts:

Contact Organization Name:	BANK ONE TEXAS TRUSTEE
Contact Mailing Address (Delivery):	PO BOX 968
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City/State/Zip:	MARSHALL, TX 75671 0968
Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Y
Facility ID:	89901
Additional ID:	495714592002116
Princ ID:	504714582002116
AI Number:	59519
Facility Name:	THE HAIR CONNECTION
AR Number:	Not reported
AR UST Number Suffix:	Not reported
AR AST Number Suffix:	Not reported
Contact Name/Title:	T R JACKSON/

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42 **THE GROCERY BARN** **TX UST** **U001289371**
HWY 134 & 43 **N/A**
KARNACK, TX

UST:

Name:	THE GROCERY BARN
Address:	HWY 134 & 43
City,State,Zip:	KARNACK, TX
AI Number:	59822
Facility Type:	RETAIL
Facility Begin Date:	09/16/1991
Facility Status:	INACTIVE
Additional ID:	468458432002089
Facility Exempt Status:	N
Records Off-Site:	No
UST Financial Assurance Required:	No
Number Of Active UST:	0
Site Location Description:	HWY 134 & 43
Site Location (Nearest City Name):	KARNACK
Site Location (County Name):	HARRISON
Site Location (Tceq Region):	5
Site Location (Location Zip):	75661
Contact Name/Title:	MAGGIE REEVES,OWNER
Contact Organization Name:	THE GROCERY BARN
Contact Mailing Address1:	Not reported
Contact Mailing Address2:	Not reported
Contact Mailing City/State/Zip:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE GROCERY BARN (Continued) **U001289371**

Contact Telephone:	9036793060
Facility Contact Address Deliverable:	Not reported
Contact Fax Number:	Not reported
Contact Email Address:	Not reported
Signature Date On Earliest Reg Form:	08/20/1991
Signature Name/Title On Earliest Reg Form:	PATRICIA SUE KING,OWNER
Application Received Date On Earliest Reg Form:	09/16/1991
Signature Role On Earliest Reg Form:	Not reported
Signature Company On Earliest Reg Form:	Not reported
Enforcement Action:	Not reported
Facility Not Inspectable:	No

Owner:

Owner CN:	CN601036221
Owner Last Name:	KING PATRICIA SUE
Owner First Name:	Not reported
Owner Middle Name:	Not reported
Owner Type:	OR
Contact Mailing Address (Delivery):	Not reported
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City:	Not reported
Contact Mailing State:	Not reported
Contact Mailing Zip:	Not reported
Contact Mailing Zip5:	Not reported
Contact Phone Number/Ext:	/
Contact Fax Country Code:	Not reported
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Not reported
Princ ID:	478458432002089
Additional ID:	468458432002089
AI Number:	59822
Owner Effective Begin Date:	09/16/1991
State Tax ID:	Not reported
Contact Role:	Not reported
Contact Name/Title:	/
Contact Organization Name:	Not reported

Tank:

Install Date:	08/31/1987
Tank Registration Date:	09/16/1991
Number of Compartments:	1
Tank Capacity:	1000
Tank Singlewall:	N
Tank Doublewall:	Y
Pipe Type:	Not reported
UST ID:	141024
Facility ID:	90226
Ai Number:	59822
Tank Id:	2
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	06/09/1998
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	Y

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE GROCERY BARN (Continued) **U001289371**

Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	08/13/1991

Compartment Records:

Tank ID:	2
Tank Capacity:	1000
UST Comprt ID:	148367
UST ID:	141024
AI Number:	59822
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	Y
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE GROCERY BARN (Continued) **U001289371**

CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	Y
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	Y
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	Y
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

Install Date:	08/31/1987
Tank Registration Date:	09/16/1991
Number of Compartments:	1
Tank Capacity:	1000
Tank Singlewall:	N
Tank Doublewall:	Y
Pipe Type:	Not reported
UST ID:	141025
Facility ID:	90226
Ai Number:	59822
Tank Id:	1
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	06/09/1998
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	Y
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE GROCERY BARN (Continued) **U001289371**

Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	N
Installation Signature Date:	08/13/1991

Compartment Records:

Tank ID:	1
Tank Capacity:	1000
UST Comprt ID:	148368
UST ID:	141025
AI Number:	59822
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	Y
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	Y
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

THE GROCERY BARN (Continued) **U001289371**

PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	Y
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	Y
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

Facility Billing Contacts:

Contact Organization Name:	KING PATRICIA SUE
Contact Mailing Address (Delivery):	PO BOX 162
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City/State/Zip:	KARNACK, TX 75661 0162
Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Y
Facility ID:	90226
Additional ID:	468458432002089
Princ ID:	478458432002089
AI Number:	59822
Facility Name:	THE GROCERY BARN
AR Number:	Not reported
AR UST Number Suffix:	Not reported
AR AST Number Suffix:	Not reported
Contact Name/Title:	SUE KING/

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42 **CIRCLE S COUNTRY STORE** **TX CENTRAL REGISTRY** **S126550260**
17353 FM 134 **N/A**
KARNACK, TX 75661

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

42 **CIRCLE S COUNTRY STORE** **TX AST** **A100214478**
17353 FM 134 **N/A**
KARNACK, TX 75661

AST:

Name:	CIRCLE S COUNTRY STORE
Address:	17353 FM 134
City,State,Zip:	KARNACK, TX 756611903
Facility ID:	82488
Additional ID:	898072212002089
AI Number:	51613
Facility Type:	RETAIL
Facility Begin Date:	08/31/1989
Facility Status:	ACTIVE
Facility Exempt Status:	N
Records Off-Site:	Y
UST Financial Assurance Required:	N
Number of Active ASTs:	5
Site Location Description:	Not reported
Site Location (nearest city name):	Not reported
Site Location (county name):	HARRISON
Site Location (TCEQ region):	5
Site Location (location zip):	75661
Contact Name/Title:	STEVE CHAMBERS/OWNER
Contact Organization Name:	CIRCLE S COUNTRY STORE
Contact Mailing Address1:	Not reported
Contact Mailing Address2:	Not reported
Contact CityStateZip:	Not reported
Contact Telephone:	9039260279
Contact Address Deliverable:	Not reported
Contact Fax Number:	Not reported
Contact Email Address:	Not reported
Signature Date on Earliest Reg Form:	05/23/2014
Signature First Name on Earliest Reg Form:	RON
Application Received Date on Earliest Reg Form:	05/27/2014
Signature Middle Name on Earliest Reg Form:	A
Signature Last Name on Earliest Reg Form:	WALSH
Signature Title on Earliest Reg Form:	Not reported
Signature Role on Earliest Reg Form:	Not reported
Signature Company on Earliest Reg Form:	Not reported
Enforcement Action:	N
Facility Not Inspectable:	N
Facility Not Inspectable Reason A:	Not reported
Facility Not Inspectable Reason B:	Not reported
Enforcement Action Date:	Not reported

Facility:

Facility ID:	82488
Tank ID:	1
AST ID:	157613
AI Number:	51613
Install Date:	08/31/1989
Tank Registration Date:	01/15/1990
Mult Comp:	N
Tank Status:	IN USE
Tank Status Date:	05/28/2014
Tank Reg Status:	FULLY REGULATED
Tank Capacity:	4000
Substance:	GASOLINE
Other Substance B:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CIRCLE S COUNTRY STORE (Continued) **A100214478**

Other Substance C:	Not reported
Steel:	Y
Fiber:	N
Aluminum:	N
Metal:	N
Concrete:	N
Dike:	N
Liner:	N
Contains CO:	Y
Contains NO:	N
Vapor Rec:	Not reported
Inst Stage Date:	Not reported
Facility ID:	82488
Tank ID:	3
AST ID:	157614
AI Number:	51613
Install Date:	08/31/1989
Tank Registration Date:	01/15/1990
Mult Comp:	N
Tank Status:	IN USE
Tank Status Date:	05/28/2014
Tank Reg Status:	FULLY REGULATED
Tank Capacity:	2000
Substance:	GASOLINE
Other Substance B:	Not reported
Other Substance C:	Not reported
Steel:	Y
Fiber:	N
Aluminum:	N
Metal:	N
Concrete:	N
Dike:	N
Liner:	N
Contains CO:	Y
Contains NO:	N
Vapor Rec:	Not reported
Inst Stage Date:	Not reported
Facility ID:	82488
Tank ID:	2
AST ID:	157615
AI Number:	51613
Install Date:	08/31/1989
Tank Registration Date:	01/15/1990
Mult Comp:	Y
Tank Status:	IN USE
Tank Status Date:	05/28/2014
Tank Reg Status:	FULLY REGULATED
Tank Capacity:	4000
Substance:	GASOLINE
Other Substance B:	GASOLINE
Other Substance C:	Not reported
Steel:	Y
Fiber:	N
Aluminum:	N
Metal:	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CIRCLE S COUNTRY STORE (Continued) **A100214478**

Concrete:	N
Dike:	N
Liner:	N
Contains CO:	Y
Contains NO:	N
Vapor Rec:	Not reported
Inst Stage Date:	Not reported
Facility ID:	82488
Tank ID:	4
AST ID:	157616
AI Number:	51613
Install Date:	08/31/1989
Tank Registration Date:	01/15/1990
Mult Comp:	N
Tank Status:	IN USE
Tank Status Date:	05/28/2014
Tank Reg Status:	FULLY REGULATED
Tank Capacity:	2000
Substance:	DIESEL
Other Substance B:	Not reported
Other Substance C:	Not reported
Steel:	Y
Fiber:	N
Aluminum:	N
Metal:	N
Concrete:	N
Dike:	N
Liner:	N
Contains CO:	N
Contains NO:	N
Vapor Rec:	Not reported
Inst Stage Date:	Not reported
Facility ID:	82488
Tank ID:	5
AST ID:	184858
AI Number:	51613
Install Date:	10/06/1997
Tank Registration Date:	10/20/1997
Mult Comp:	N
Tank Status:	IN USE
Tank Status Date:	05/28/2014
Tank Reg Status:	FULLY REGULATED
Tank Capacity:	2000
Substance:	DIESEL
Other Substance B:	Not reported
Other Substance C:	Not reported
Steel:	Y
Fiber:	N
Aluminum:	N
Metal:	N
Concrete:	N
Dike:	N
Liner:	N
Contains CO:	N
Contains NO:	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CIRCLE S COUNTRY STORE (Continued) **A100214478**

Vapor Rec:	Not reported
Inst Stage Date:	Not reported
Facility ID:	82488
Tank ID:	6
AST ID:	184859
AI Number:	51613
Install Date:	10/06/1997
Tank Registration Date:	10/20/1997
Mult Comp:	N
Tank Status:	OUT OF USE
Tank Status Date:	03/24/2004
Tank Reg Status:	FULLY REGULATED
Tank Capacity:	3000
Substance:	DIESEL
Other Substance B:	Not reported
Other Substance C:	Not reported
Steel:	Y
Fiber:	N
Aluminum:	N
Metal:	N
Concrete:	N
Dike:	N
Liner:	N
Contains CO:	N
Contains NO:	Y
Vapor Rec:	Not reported
Inst Stage Date:	Not reported

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42 **ASERET RESTAURANT** **TX CENTRAL REGISTRY** **S126869185**
17308 FM 134 **N/A**
KARNACK, TX 75661

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43 **CADDO LEVEE BOARD H SWD** **LA UIC** **S110451829**
N/A

, LA

UIC:

Name:	CADDO LEVEE BOARD H SWD
Address:	Not reported
City,State,Zip:	LA
Location:	Not reported
Org Id:	1994
Org Oper Name:	GEMINI EXPLORATIONS, INC.
Field Id:	2152
Field Name:	CADDO PINE ISLAND
Well Class:	II
Well Class Type Code Description:	PRODUCED SALT WATER
API Num:	17017880210000
Wells Serial Num:	970259
Well Num:	014
Section:	031
Township:	20N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

CADDO LEVEE BOARD H SWD (Continued) **S110451829**

Well Range:	16W
Parish Code:	09
Well Status Code:	29
Well Status Code Description:	DRY AND PLUGGED
Well Status Date:	09/16/1983
Address1:	Not reported
Address2:	Not reported
Address2:	Not reported
Permit Date:	Not reported
Effective Date:	09/01/1983
Meridian:	W
Field District Name:	Shreveport
Field Area Code:	Onshore
Product Type Code:	00
Product Type Code Description:	NO PRODUCT SPECIFIED
Measured Depth:	950
Longitude Degrees:	Not reported
Longitude Minutes:	Not reported
Longitude Seconds:	Not reported
Latitude Degrees:	Not reported
Latitude Minutes:	Not reported
Latitude Seconds:	Not reported
G UTMX:	Not reported
G UTMY:	Not reported
G LATY:	32.6783853
G LONGX:	-94.038490
Legend:	2900
Hyperlink:	http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=970259
Doc Access:	http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=970259
Upper Perf:	904;895
Lower Perf:	921;914

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43 **SL 173 SWD** **LA UIC** **S110452225**
N/A

, LA

UIC:

Name:	SL 173 SWD
Address:	Not reported
City,State,Zip:	LA
Location:	Not reported
Org Id:	1994
Org Oper Name:	GEMINI EXPLORATIONS, INC.
Field Id:	2152
Field Name:	CADDO PINE ISLAND
Well Class:	II
Well Class Type Code Description:	PRODUCED SALT WATER
API Num:	17017072770000
Wells Serial Num:	87737
Well Num:	025
Section:	031
Township:	20N
Well Range:	16W
Parish Code:	09
Well Status Code:	30
Well Status Code Description:	PLUGGED AND ABANDONED
Well Status Date:	07/02/2004

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SL 173 SWD (Continued) **S110452225**

Address1:	Not reported
Address2:	Not reported
Address2:	Not reported
Permit Date:	11/20/1961
Effective Date:	07/02/2004
Meridian:	W
Field District Name:	Shreveport
Field Area Code:	Onshore
Product Type Code:	00
Product Type Code Description:	NO PRODUCT SPECIFIED
Measured Depth:	2437
Longitude Degrees:	Not reported
Longitude Minutes:	Not reported
Longitude Seconds:	Not reported
Latitude Degrees:	Not reported
Latitude Minutes:	Not reported
Latitude Seconds:	Not reported
G UTMX:	Not reported
G UTMY:	Not reported
G LATY:	32.6796902
G LONGX:	-94.036032
Legend:	3000
Hyperlink:	http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=87737
Doc Access:	http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=87737
Upper Perf:	832;2245
Lower Perf:	842;2268

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44 **T.J. TAYLOR WELL NO. 11** **TX TIER 2** **S109198276** **N/A**

KARNACK, TX 75661

TIER 2:

Facility Id/Name:	FATR20075MZPA403X9Q9/T.J. TAYLOR WELL NO. 11
Reporting Year:	2007
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	8/5/2008
Date Tier 2 Signed:	2-13-2008
Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Karnack VFD
Submitted By:	Paul Griesedieck
Latitude:	32.67861
Longitude:	94.20861
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number / EPA ID Number

T.J. TAYLOR WELL NO. 11 (Continued) **S109198276**

Mail State Req.: Not reported
Fire District: Not reported
Additional Mail Addr: Not reported

Notes: Not reported
Validation: Not reported

---

45 **STATIC TEST AREA** **UXO** **1024716739**
HWY. 134AND HWY. 43 **N/A**
TEXARKANA, TX

UXO:
DoD Component: Army
Installation Name: LONGHORN ARMY AMMUNITION PLANT
Name: STATIC TEST AREA
Address: HWY. 134AND HWY. 43
Address 2: Not reported
City,State,Zip: TEXARKANA, TX
Site ID: LHAAP-002-R-01
Site Type: Explosive Ordnance Disposal Area
Latitude: 32.676435
Longitude: -94.120216

---

46 **CADDO LAKE CLEANING SYSTEMS** **EDR Hist Cleaner** **1019946989**
484 BUB HAYNER RD **N/A**
KARNACK, TX 75661

EDR Hist Cleaner

Year:	Name:	Type:
2002	CADDO LAKE CLEANING SYSTEMS	Drycleaning Plants, Except Rugs, NEC
2003	CADDO LAKE CLEANING SYSTEMS	Drycleaning Plants, Except Rugs, NEC
2004	CADDO LAKE CLEANING SYSTEMS	Drycleaning Plants, Except Rugs, NEC
2005	CADDO LAKE CLEANING SYSTEMS	Drycleaning Plants, Except Rugs, NEC
2006	CADDO LAKE CLEANING SYSTEMS	Drycleaning Plants, Except Rugs, NEC
2007	CADDO LAKE CLEANING SYSTEMS	Drycleaning Plants, Except Rugs, NEC
2008	CADDO LAKE CLEANING SYSTEMS	Drycleaning Plants, Except Rugs, NEC
2009	CADDO LAKE CLEANING SYSTEMS	Drycleaning Plants, Except Rugs, NEC
2010	CADDO LAKE CLEANING SYSTEMS	Drycleaning Plants, Except Rugs, NEC
2011	CADDO LAKE CLEANING SYSTEMS	Drycleaning Plants, Except Rugs, NEC
2012	CADDO LAKE CLEANING SYSTEMS	Drycleaning Plants, Except Rugs, NEC
2013	CADDO LAKE CLEANING SYSTEMS	Drycleaning Plants, Except Rugs, NEC

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

47 WILLER ETAL UNIT | **LA UIC** | **S110450644** | **N/A**

, LA

UIC:

Name:	WILLER ETAL UNIT
Address:	Not reported
City,State,Zip:	LA
Location:	Not reported
Org Id:	5968
Org Oper Name:	JOHN W. THOMAS
Field Id:	2152
Field Name:	CADDO PINE ISLAND
Well Class:	II
Well Class Type Code Description:	PRODUCED SALT WATER
API Num:	17017035410000
Wells Serial Num:	82803
Well Num:	002
Section:	005
Township:	19N
Well Range:	16W
Parish Code:	09
Well Status Code:	30
Well Status Code Description:	PLUGGED AND ABANDONED
Well Status Date:	06/17/1985
Address1:	Not reported
Address2:	Not reported
Address2:	Not reported
Permit Date:	12/29/1960
Effective Date:	07/01/1985
Meridian:	W
Field District Name:	Shreveport
Field Area Code:	Onshore
Product Type Code:	00
Product Type Code Description:	NO PRODUCT SPECIFIED
Measured Depth:	2452
Longitude Degrees:	Not reported
Longitude Minutes:	Not reported
Longitude Seconds:	Not reported
Latitude Degrees:	Not reported
Latitude Minutes:	Not reported
Latitude Seconds:	Not reported
G UTMX:	Not reported
G UTMY:	Not reported
G LATY:	32.6728496
G LONGX:	-94.031592
Legend:	3000
Hyperlink:	http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=82803
Doc Access:	http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=82803
Upper Perf:	900
Lower Perf:	940

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

47 HUNTER SWD | **LA UIC** | **S110450796** | **N/A**

, LA

UIC:

Name:	HUNTER SWD
Address:	Not reported
City,State,Zip:	LA
Location:	Not reported
Org Id:	C209
Org Oper Name:	CROWDER OIL CO.
Field Id:	2152
Field Name:	CADDO PINE ISLAND
Well Class:	II
Well Class Type Code Description:	PRODUCED SALT WATER
API Num:	17017029280000
Wells Serial Num:	86286
Well Num:	003
Section:	005
Township:	19N
Well Range:	16W
Parish Code:	09
Well Status Code:	30
Well Status Code Description:	PLUGGED AND ABANDONED
Well Status Date:	10/10/2000
Address1:	Not reported
Address2:	Not reported
Address2:	Not reported
Permit Date:	08/24/1961
Effective Date:	10/10/2000
Meridian:	W
Field District Name:	Shreveport
Field Area Code:	Onshore
Product Type Code:	00
Product Type Code Description:	NO PRODUCT SPECIFIED
Measured Depth:	2365
Longitude Degrees:	Not reported
Longitude Minutes:	Not reported
Longitude Seconds:	Not reported
Latitude Degrees:	Not reported
Latitude Minutes:	Not reported
Latitude Seconds:	Not reported
G UTMX:	Not reported
G UTMY:	Not reported
G LATY:	32.6754497
G LONGX:	-94.030690
Legend:	3000
Hyperlink:	http://sonlite.dnr.state.la.us/sundown/cart_prod/cart_con_wellinfo2?p_WSN=86286
Doc Access:	http://ucmwww.dnr.state.la.us/ucmsearch/FindDocuments.aspx?idx=xwellserialnumber&val=86286
Upper Perf:	913;931;2244
Lower Perf:	936;935;2260

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
48	**ALFORD HEIRS WELL NO. 2** **KARNACK, TX 75661**	**TX TIER 2**	**S109172952** **N/A**

TIER 2:

Facility Id/Name:	FATR200753XYWC00SCX7/ALFORD HEIRS WELL NO. 2
Reporting Year:	2007
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	8/5/2008
Date Tier 2 Signed:	2-13-2008
Mailing Address:	2909 South Washington Ave
Mailing City/State/Country:	Marshall, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	Not reported
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Karnack VFD
Submitted By:	Paul Griesedieck
Latitude:	32.675278
Longitude:	94.198056
Lat/Long Location Desc:	ST - Storage Tank
Lat/Long Method:	G3 - GPS (Differential)
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Notes: Not reported
Validation: Not reported

49	**5540 NORTH STATE LINE RD** **KARNACK, TX**	**ERNS**	**2007826257** **N/A**

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

50 BOOMER NO 3 BATTERY | **FINDS** | **1010717161** | **N/A**
TAKE HWY 43 N OUT OF MARSHALL 13.8 MI TURN R ON FM
KARNACK, TX 75661

FINDS:
Registry ID: 110033418521

Click Here:

Environmental Interest/Information System:
Texas Commission on Environmental Quality - Agency Central Registry (TX-TCEQ ACR) is a computer application that allows the Texas Commission on Environmental Quality (TCEQ) to use a single, centralized area to record common information, such as the company names, addresses, and telephone numbers of those the TCEQ regulates. It also contains additional IDs (permits, registrations, authorizations, etc) and their status.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

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50 BOOMER NO 3 BATTERY | **TX AIRS** | **S116580486**
TX COMP HIST | **N/A**

KARNACK, TX

AIRS:

Name:	BOOMER NO 3 BATTERY
Address:	Not reported
City,State,Zip:	KARNACK, TX
Permit Num:	81100
Regulated Id:	RN105161491
Permit Type:	PBR
Permit Status:	EFFECTIVE
Permit Issued Date:	11/19/2019
Expiration Date:	12/31/3000
Customer Id:	CN602933681
Company Name:	COMSTOCK OIL & GAS LLC
Physical Location Desc:	TAKE HWY 43 N OUT OF MARSHALL 13.8 MI TURN R ON FM 134 GO 0.7 MI & TURN L INTO LONGHORN AMMO PLANT FROM INSIDE PLANT GO EAST FROM GUARDHOUSE 0.6 MI TURN R ON AVE E GO 0.3 MI & TURN L ON 18 TH ST GO 1.2 MI TO LOCATION
Rep Official(RO):	VICE PRESIDENT OPERATIONS
RO Name:	MR PATRICK MCGOUGH
RO Delivery Address:	5300 TOWN AND COUNTRY BLVD STE 500
RO City/State/Zip:	FRISCO, T 75034-689
RO Phone:	Not reported
RO Ext Num:	Not reported
RO EMail Address:	PMCGOUGH@COMSTOCKRESOURCES.COM
Lat Dec Coord Num:	-94.14138
Long Dec Coord Num:	32.6727769

COMP HIST:

RN Number:	RN105161491
Name:	BOOMER NO 3 BATTERY
Address:	Not reported
City,State,Zip:	KARNACK, TX
Region:	REGION 05 - TYLER
CN Number:	CN602933681
CN Name:	COMSTOCK OIL & GAS LLC
CN Rating:	0
Classification:	HIGH

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

BOOMER NO 3 BATTERY (Continued) **S116580486**

Date Calculated:	09/01/2020
Date Published to Web:	11/16/2020
Rating:	0
Classification 2:	UNCLASSIFIED
Date Rated 2:	09/01/2020
Date Published to Web 2:	11/15/2020
NAICS Code:	211111
SIC Code:	4952
Related Number:	61175,81100,81100

RN Number:	RN105161491
Name:	BOOMER NO 3 BATTERY
Address:	Not reported
City,State,Zip:	KARNACK, TX
Region:	REGION 05 - TYLER
CN Number:	CN605168160
CN Name:	COVEY PARK RESOURCES LLC
CN Rating:	0
Classification:	UNCLASSIFIED
Date Calculated:	09/01/2020
Date Published to Web:	11/15/2020
Rating:	0
Classification 2:	UNCLASSIFIED
Date Rated 2:	09/01/2020
Date Published to Web 2:	11/15/2020
NAICS Code:	211111
SIC Code:	1521
Related Number:	61175,81100,81100

RN Number:	RN105161491
Name:	BOOMER NO 3 BATTERY
Address:	Not reported
City,State,Zip:	KARNACK, TX
Region:	REGION 05 - TYLER
CN Number:	CN602778417
CN Name:	PENN VIRGINIA OIL & GAS LP
CN Rating:	0
Classification:	HIGH
Date Calculated:	09/01/2020
Date Published to Web:	11/16/2020
Rating:	0
Classification 2:	UNCLASSIFIED
Date Rated 2:	09/01/2020
Date Published to Web 2:	11/15/2020
NAICS Code:	211111
SIC Code:	1422
Related Number:	61175,81100,81100

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.)	Site	Database(s)	EDR ID Number / EPA ID Number
51	**KARNACK WATER SUPPLY CORPORATION** **943 TJ TAYLOR AVE.** **KARNACK, TX 75661**	**TX TIER 2**	**S113685898** **N/A**

TIER 2:

Facility Id:	FATR201291N684003PK0
Facility Name:	KARNACK WATER SUPPLY CORPORATION
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/10/2013
Date Tier 2 Signed:	01/11/2013
Mailing Address:	PO Box 307
Mailing City/State/Country:	Karnack, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	True
State Fees Total:	Not reported
Number Of Employess On Site:	0
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	William Power
Latitude:	Not reported
Longitude:	Not reported
Lat/Long Location Desc:	Not reported
Lat/Long Method:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	22131
Id Type:	NAICS
Description:	Water Supply and Irrigation Systems
Last Modified:	1/11/2013

Contact:

Contact Email:	Wdpower01@hotmail.com
Contact Mail Address:	2121 FM 1999
Contact City/State/Zip:	Karnack, TX 75661
Contact Mail Country:	USA
Contact Type 1:	Emergency Contact
Contact Type 2:	Owner / Operator
Contact Name:	William Power
Title:	General Manager
Modification Date:	2/23/2013

Chemical Inventory:

Facility Id:	FATR201291N684003PK0
Chemical Name:	CHLORINE
Chemical Inv Record Id:	CVTR201291QF6N0094GY
CAS Number:	7782-50-5
Chemical Same As Last Year:	T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

KARNACK WATER SUPPLY CORPORATION (Continued) **S113685898**

Acute Health Risks:	T
Average Daily Amount:	0 - 99 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	150
Chronic Health Risks:	Not reported
EHS Substance:	T
Last Modified:	2/23/2013
Days On Site:	365
Fire Hazard:	Not reported
Gas:	T
Liquid:	Not reported
Mixture Form:	Not reported
Sudden Release Of Pressure Haz:	T
Pure Form:	T
Reactive Hazard:	Not reported
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201291QFC000ASAG
Chemical Inventory Record Id:	CVTR201291QF6N0094GY
Amt Of Sub Stored Or Transported:	150
Amount Units:	pounds
Type Of Storage:	Cylinder
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	Shed adjacent to pump house on 15720 Hwy 43
Last Modified:	2/23/2013

Notes: Not reported
Validation: Not reported

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51 **LONGHORN ARMY AMMUNITION PLANT** **TX LPST** **S116702247**
15600 ST HWY 134 **N/A**
KARNACK, TX

LPST:

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
Facility ID:	Not reported
LPST Id:	92925
Facility Location:	Not reported
TCEQ Region# and City:	REGION 05 - TYLER
Region City:	Not reported
Discovered Date:	12/14/1992
Entered Date:	05/08/1989
Reported Date:	05/01/1989
Closure Date:	05/01/1989
Priority:	4A - SOIL CONTAMINATION ONLY REQUIRES FULL SITE ASSESSMENT RAP
Program:	2 - REGION
CA Status:	6A - FINAL CONCURRENCE ISSUED

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S116702247**

Priority Description:	Not reported
Status:	**Not reported**
Coordinators Primary:	Not reported
Coordinators RPR:	Not reported
Responsible Party Name:	Not reported
Responsible Party Contact:	Not reported
Responsible Party Address:	Not reported
Responsible Party City,St,Zip:	Not reported
Responsible Party Telephone:	Not reported
Reported Date:	05/01/1989
Case Start Date:	05/01/1989

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51 **LONGHORN ARMY AMMUNITION PLANT** **TX UST** **U003840531**
15600 ST HWY 134 **N/A**
KARNACK, TX 75661

UST:

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX 75661
AI Number:	5555
Facility Type:	FLEET REFUELING
Facility Begin Date:	06/26/1986
Facility Status:	INACTIVE
Additional ID:	763650132003073
Facility Exempt Status:	N
Records Off-Site:	No
UST Financial Assurance Required:	No
Number Of Active UST:	0
Site Location Description:	HWY 134 SPUR 449
Site Location (Nearest City Name):	KARNACK
Site Location (County Name):	HARRISON
Site Location (Tceq Region):	5
Site Location (Location Zip):	75661
Contact Name/Title:	KEN MICHELS,
Contact Organization Name:	LONGHORN ARMY AMMUNITION PLANT
Contact Mailing Address1:	Not reported
Contact Mailing Address2:	Not reported
Contact Mailing City/State/Zip:	Not reported
Contact Telephone:	9036792774
Facility Contact Address Deliverable:	Not reported
Contact Fax Number:	Not reported
Contact Email Address:	Not reported
Signature Date On Earliest Reg Form:	04/30/1986
Signature Name/Title On Earliest Reg Form:	D E MALEY,CHIEF ENGINEER
Application Received Date On Earliest Reg Form:	05/08/1986
Signature Role On Earliest Reg Form:	Not reported
Signature Company On Earliest Reg Form:	Not reported
Enforcement Action:	Not reported
Facility Not Inspectable:	No

Owner:

Owner CN:	CN602794802
Owner Last Name:	LONGHORN ARMY AMMUNITION PLANT
Owner First Name:	Not reported
Owner Middle Name:	Not reported
Owner Type:	OR
Contact Mailing Address (Delivery):	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City:	Not reported
Contact Mailing State:	Not reported
Contact Mailing Zip:	Not reported
Contact Mailing Zip5:	Not reported
Contact Phone Number/Ext:	/
Contact Fax Country Code:	Not reported
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Not reported
Princ ID:	781570652005061
Additional ID:	763650132003073
AI Number:	5555
Owner Effective Begin Date:	06/26/1986
State Tax ID:	Not reported
Contact Role:	Not reported
Contact Name/Title:	/
Contact Organization Name:	Not reported

Tank:

Install Date:	01/01/1976
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	280
Tank Singlewall:	Y
Tank Doublewall:	N
Pipe Type:	S
UST ID:	13890
Facility ID:	44113
Ai Number:	5555
Tank Id:	1
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	06/16/1993
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	Y
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	10/23/1990

Compartment Records:

Tank ID:	1
Tank Capacity:	280
UST Comprt ID:	18162
UST ID:	13890
AI Number:	5555
Compartment ID:	A
Substance Stored1:	DIESEL
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

More Self Certification:

Self Cert ID:	2280
Cert ID:	303303
UST Comprt ID:	877156
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8969
UST Comprt ID:	24247
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	219016
UST Comprt ID:	627628
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	235101
UST Comprt ID:	674818
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	269602
UST Comprt ID:	776712
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8970
UST Comprt ID:	24246
UST ID:	9186
AI Number:	5555

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	321744
UST Comprt ID:	932253
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	287468
UST Comprt ID:	829743
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8961
UST Comprt ID:	24257
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8960
UST Comprt ID:	24256
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8959
UST Comprt ID:	24255
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8962
UST Comprt ID:	24254
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8963
UST Comprt ID:	24253
UST ID:	9186
AI Number:	5555
Tank ID:	2

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8964
UST Comprt ID:	24252
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8965
UST Comprt ID:	24251
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8966
UST Comprt ID:	24250
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8967
UST Comprt ID:	24249
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8968
UST Comprt ID:	24248
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	252239
UST Comprt ID:	725232
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Install Date:	01/01/1942
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	1000
Tank Singlewall:	N
Tank Doublewall:	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Pipe Type:	Not reported
UST ID:	13891
Facility ID:	44113
Ai Number:	5555
Tank Id:	5
Tank Status (Current):	PERM FILLED IN PLACE
Tank Status Date:	08/31/1966
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	10/23/1990

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) | **U003840531**

Compartment Records:

Tank ID:	5
Tank Capacity:	Not reported
UST Comprt ID:	18163
UST ID:	13891
AI Number:	5555
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

More Self Certification:

Self Cert ID:	2280
Cert ID:	303303
UST Comprt ID:	877156
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8969
UST Comprt ID:	24247
UST ID:	9186

MAP FINDINGS

Map ID
Direction
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 219016
UST Comprt ID: 627628
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 235101
UST Comprt ID: 674818
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 269602
UST Comprt ID: 776712
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8970
UST Comprt ID: 24246
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 321744
UST Comprt ID: 932253
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 287468
UST Comprt ID: 829743
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8961
UST Comprt ID: 24257
UST ID: 9186
AI Number: 5555

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8960
UST Comprt ID: 24256
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8959
UST Comprt ID: 24255
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8962
UST Comprt ID: 24254
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8963
UST Comprt ID: 24253
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8964
UST Comprt ID: 24252
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8965
UST Comprt ID: 24251
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8966
UST Comprt ID: 24250
UST ID: 9186
AI Number: 5555
Tank ID: 2

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8967
UST Comprt ID:	24249
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8968
UST Comprt ID:	24248
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	252239
UST Comprt ID:	725232
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Install Date:	01/01/1978
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	10000
Tank Singlewall:	Y
Tank Doublewall:	N
Pipe Type:	S
UST ID:	13892
Facility ID:	44113
Ai Number:	5555
Tank Id:	2
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	06/16/1993
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	Y
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N

MAP FINDINGS

Map ID
Direction
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	Y
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	10/23/1990

Compartment Records:

Tank ID:	2
Tank Capacity:	10000
UST Comprt ID:	18164
UST ID:	13892
AI Number:	5555
Compartment ID:	A
Substance Stored1:	DIESEL
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N

MAP FINDINGS

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LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

More Self Certification:

Self Cert ID:	2280
Cert ID:	303303
UST Comprt ID:	877156
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A

Self Cert ID:	2280
Cert ID:	8969
UST Comprt ID:	24247
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A

Self Cert ID:	2280
Cert ID:	219016
UST Comprt ID:	627628
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A

Self Cert ID:	2280
Cert ID:	235101
UST Comprt ID:	674818
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A

Self Cert ID:	2280
Cert ID:	269602
UST Comprt ID:	776712
UST ID:	9186
AI Number:	5555
Tank ID:	2

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8970
UST Comprt ID:	24246
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	321744
UST Comprt ID:	932253
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	287468
UST Comprt ID:	829743
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8961
UST Comprt ID:	24257
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8960
UST Comprt ID:	24256
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8959
UST Comprt ID:	24255
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8962
UST Comprt ID:	24254
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Self Cert ID:	2280
Cert ID:	8963
UST Comprt ID:	24253
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8964
UST Comprt ID:	24252
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8965
UST Comprt ID:	24251
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8966
UST Comprt ID:	24250
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8967
UST Comprt ID:	24249
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8968
UST Comprt ID:	24248
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	252239
UST Comprt ID:	725232
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A

MAP FINDINGS

Map ID
Direction
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Install Date:	01/01/1975
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	17000
Tank Singlewall:	Y
Tank Doublewall:	N
Pipe Type:	P
UST ID:	13893
Facility ID:	44113
Ai Number:	5555
Tank Id:	4
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	09/30/1992
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	Y
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	Y
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	10/23/1990

Compartment Records:

Tank ID:	4
Tank Capacity:	17000
UST Comprt ID:	18165
UST ID:	13893
AI Number:	5555
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

More Self Certification:

Self Cert ID:	2280
Cert ID:	303303
UST Comprt ID:	877156
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Self Cert ID:	2280
Cert ID:	8969
UST Comprt ID:	24247
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	219016
UST Comprt ID:	627628
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	235101
UST Comprt ID:	674818
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	269602
UST Comprt ID:	776712
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8970
UST Comprt ID:	24246
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	321744
UST Comprt ID:	932253
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	287468
UST Comprt ID:	829743
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Cert ID: 8961
UST Comprt ID: 24257
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8960
UST Comprt ID: 24256
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8959
UST Comprt ID: 24255
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8962
UST Comprt ID: 24254
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8963
UST Comprt ID: 24253
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8964
UST Comprt ID: 24252
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8965
UST Comprt ID: 24251
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8966

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

UST Comprt ID:	24250
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8967
UST Comprt ID:	24249
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8968
UST Comprt ID:	24248
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	252239
UST Comprt ID:	725232
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Install Date:	01/01/1942
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	12000
Tank Singlewall:	Y
Tank Doublewall:	N
Pipe Type:	P
UST ID:	13894
Facility ID:	44113
Ai Number:	5555
Tank Id:	3
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	09/30/1992
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	Y
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	Y
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	10/23/1990

Compartment Records:

Tank ID:	3
Tank Capacity:	12000
UST Comprt ID:	18166
UST ID:	13894
AI Number:	5555
Compartment ID:	A
Substance Stored1:	DIESEL
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

More Self Certification:

Self Cert ID:	2280
Cert ID:	303303
UST Comprt ID:	877156
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8969
UST Comprt ID:	24247
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	219016
UST Comprt ID:	627628
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	235101
UST Comprt ID:	674818
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	269602

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

UST Comprt ID:	776712
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8970
UST Comprt ID:	24246
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	321744
UST Comprt ID:	932253
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	287468
UST Comprt ID:	829743
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8961
UST Comprt ID:	24257
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8960
UST Comprt ID:	24256
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8959
UST Comprt ID:	24255
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8962
UST Comprt ID:	24254

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8963
UST Comprt ID: 24253
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8964
UST Comprt ID: 24252
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8965
UST Comprt ID: 24251
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8966
UST Comprt ID: 24250
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8967
UST Comprt ID: 24249
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8968
UST Comprt ID: 24248
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 252239
UST Comprt ID: 725232
UST ID: 9186

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

AI Number:	5555
Tank ID:	2
Compartment ID:	A
Install Date:	01/01/1942
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	1000
Tank Singlewall:	N
Tank Doublewall:	N
Pipe Type:	Not reported
UST ID:	13895
Facility ID:	44113
Ai Number:	5555
Tank Id:	6
Tank Status (Current):	PERM FILLED IN PLACE
Tank Status Date:	08/31/1966
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	N
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	10/23/1990

Compartment Records:

Tank ID:	6
Tank Capacity:	Not reported
UST Comprt ID:	18167
UST ID:	13895
AI Number:	5555
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

More Self Certification:

Self Cert ID:	2280
Cert ID:	303303

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

UST Comprt ID:	877156
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8969
UST Comprt ID:	24247
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	219016
UST Comprt ID:	627628
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	235101
UST Comprt ID:	674818
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	269602
UST Comprt ID:	776712
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8970
UST Comprt ID:	24246
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	321744
UST Comprt ID:	932253
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	287468
UST Comprt ID:	829743

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8961
UST Comprt ID: 24257
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8960
UST Comprt ID: 24256
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8959
UST Comprt ID: 24255
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8962
UST Comprt ID: 24254
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8963
UST Comprt ID: 24253
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8964
UST Comprt ID: 24252
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8965
UST Comprt ID: 24251
UST ID: 9186

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8966
UST Comprt ID:	24250
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8967
UST Comprt ID:	24249
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8968
UST Comprt ID:	24248
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	252239
UST Comprt ID:	725232
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A

Install Date:	01/01/1942
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	1000
Tank Singlewall:	Y
Tank Doublewall:	N
Pipe Type:	S
UST ID:	13896
Facility ID:	44113
Ai Number:	5555
Tank Id:	8
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	09/30/1992
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	Y
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N
Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	N
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	10/23/1990

Compartment Records:

Tank ID:	8
Tank Capacity:	1000
UST Comprt ID:	18168
UST ID:	13896
AI Number:	5555
Compartment ID:	A
Substance Stored1:	GASOLINE
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported
Stage 1 Installation Date:	Not reported

More Self Certification:

Self Cert ID:	2280
Cert ID:	303303
UST Comprt ID:	877156
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8969
UST Comprt ID:	24247
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	219016
UST Comprt ID:	627628
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	235101
UST Comprt ID:	674818
UST ID:	9186

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 269602
UST Comprt ID: 776712
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8970
UST Comprt ID: 24246
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 321744
UST Comprt ID: 932253
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 287468
UST Comprt ID: 829743
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8961
UST Comprt ID: 24257
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8960
UST Comprt ID: 24256
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8959
UST Comprt ID: 24255
UST ID: 9186
AI Number: 5555

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8962
UST Comprt ID: 24254
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8963
UST Comprt ID: 24253
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8964
UST Comprt ID: 24252
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8965
UST Comprt ID: 24251
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8966
UST Comprt ID: 24250
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8967
UST Comprt ID: 24249
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8968
UST Comprt ID: 24248
UST ID: 9186
AI Number: 5555
Tank ID: 2

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Compartment ID:	A
Self Cert ID:	2280
Cert ID:	252239
UST Comprt ID:	725232
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Install Date:	01/01/1942
Tank Registration Date:	05/08/1986
Number of Compartments:	1
Tank Capacity:	1000
Tank Singlewall:	Y
Tank Doublewall:	N
Pipe Type:	S
UST ID:	13897
Facility ID:	44113
Ai Number:	5555
Tank Id:	7
Tank Status (Current):	REMOVED FROM GROUND
Tank Status Date:	09/30/1992
Empty:	N
Tank Regulatory Status:	FULLY REGULATED
Tank Int Prot (Internal Tank Lining Date):	Not reported
Piping Design (Single Wall):	Y
Piping Design (Double Wall):	N
Tank Ext Cont(Fac-Built Nonmetallic Jacket):	N
Tank Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Tank Ext Cont(Tank Vault/Rigid Trench Liner):	N
Piping Ext Cont(Fac-Built Nonmetallic Jacket):	N
Piping Ext Cont(Syn Tank-Pit/Piping-Trench Liner):	N
Piping Ext Cont(Tank Vault/Rigid Trench Liner):	N
Tank Material (Steel):	Y
Tank Material(Frp(Fiberglass-Reinforced Plastic):	N
Tank Mat(Composite (Steel W/Ext Frp Cladding)):	N
Tank Mat(Concrete):	N
Tank Mat(Jacketed (Steel W/Ext Nonmetallic Jck)):	N
Tank Mat(Coated(Steel W/ExtPolyurethane Cladding)):	N
Piping Material (Steel):	Y
Piping Mat(Frp(Fiberglass Reinforced Plastic):	N
Piping Mat(Concrete):	N
Piping Mat(Jacketed(Steel W/Ext Nonmetallic Jacket)):	N
Piping Mat(Nonmetallic Flex Piping):	N
PipingConnect/Valves(Shear/Impact Valves(Under Disp)):	N
Piping Connect/Valves(Steel Swing-Joints(End Of Piping)):	N
Piping Connect/Valves (Flex Connectors(Ends Of Piping)):	N
Tank Corr Prot Meth(TCPM)(Cathodic-Field Installation):	N
TCPM (ExtDielectricCoat/Laminate/Tape/Wrap):	N
TCPM(Cathodic Prot-FacInstallation):	N
TCPM(Composite Tank(Steel W/Frp Ext Laminate):	N
TCPMeth(Coated Tank(Steel W/ExtPolyurethaneLaminate):	N
TCPM(FRP Tank Or Piping(Noncorrodible)):	N
TCPM(Ext Nonmetallic Jacket):	N
TCPMeth(Unnecessary Per Corrosion Prot Spec):	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Piping Corr Prot Meth(Dielectric Coat/Laminate/Tape/Wrap):	Y
Piping Corr Prot Method(PCPM) (Cathodic Factory Install):	N
PCPM(Cathodic Prot-Field Install):	N
PCPMethod (FRP Tank Or Piping(Noncorrodible):	N
PCPM(Nonmetallic FlexPiping (Noncorrodible)):	N
PCPMeth(Isolated Open Area/2nd Containment):	N
PCPM (Dual Protected):	N
PCPM(Unnec Per Corrosion Prot Specialist):	N
Tank Corr Prot Compliance Flag:	N
Piping Corr Prot Compliance Flag:	N
Tank Corrosion Prot Variance:	N
Piping Corrosion Prot Variance:	N
Temp Out Of Service Compliance:	N
Technical Compliance Flag:	N
Tank Tested Flag:	Y
Installation Signature Date:	10/23/1990

Compartment Records:

Tank ID:	7
Tank Capacity:	1000
UST Comprt ID:	18169
UST ID:	13897
AI Number:	5555
Compartment ID:	A
Substance Stored1:	DIESEL
Substance Stored2:	Not reported
Substance Stored3:	Not reported
CompartmentReleaseDetectionMethod(Vapor):	N
CRDM(GW Monitoring):	N
CRDM(Monitoring Of Secondary Cont Barrier):	N
CRDM(Auto Tank Gauge Test/Inv Control):	N
CRDM(Interstitial Monitoring SecWall/Jacket):	N
CRDM(Wkly Manual Gauging(Tanks<=1000 G):	N
CRDM(Mthly Tank Gauging(Emer Gen Tanks):	N
CRDM(Sir (Stat Inv Reconciliation)/Inv Control):	N
PipingReleaseDetectionMethod(PRDM)(Vapor):	N
PRDM(Groundwater Monitoring):	N
PRDM(Monitoring Sec Containment Barrier):	N
PRDM(InterstitialMonitoring w/in SecWall/Jacket):	N
PRDM(Mthly Piping Tightness Test)@.2Gph:	N
PRDM(AnnualPipingTightTest/ElecMon@.1Gph:	N
PRDM(TriennialTightTest(Suction/GravityPiping):	N
PRDM AutoLineLeakDet(3.0 Gph PressPiping):	N
PRDM(Sir(StatInv Recon)/Inv Control)):	N
PRDM(Exempt System Suction:	N
Spill Overfill Prevention Equip(SOPE):	N
SOPE(Spill Cont/Bucket/Sump):	N
SOPE(DelShut-Off Valve)):	N
SOPE(FlowRestrictorValue:	N
SOPE(Alarm (Set@<=90%) W/3a Or 3b:	N
SOPE(N/A Deliveries To Tank<=25G):	N
Compartment Release Det Compliance Flag:	N
Piping Release Detection Compliance Flag):	N
Spill/OverfillPreventionCompliance Flag:	N
Compartment Release Detection Variance:	N
Piping Release Detection Variance:	N
Spill And Overfill Prevention Variance:	N
Stage I Vapor Recovery:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Stage 1 Installation Date: Not reported

More Self Certification:

Self Cert ID:	2280
Cert ID:	303303
UST Comprt ID:	877156
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8969
UST Comprt ID:	24247
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	219016
UST Comprt ID:	627628
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	235101
UST Comprt ID:	674818
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	269602
UST Comprt ID:	776712
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8970
UST Comprt ID:	24246
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	321744
UST Comprt ID:	932253
UST ID:	9186
AI Number:	5555
Tank ID:	2

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Compartment ID: A

Self Cert ID: 2280
Cert ID: 287468
UST Comprt ID: 829743
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8961
UST Comprt ID: 24257
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8960
UST Comprt ID: 24256
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8959
UST Comprt ID: 24255
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8962
UST Comprt ID: 24254
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8963
UST Comprt ID: 24253
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

Self Cert ID: 2280
Cert ID: 8964
UST Comprt ID: 24252
UST ID: 9186
AI Number: 5555
Tank ID: 2
Compartment ID: A

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

Self Cert ID:	2280
Cert ID:	8965
UST Comprt ID:	24251
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8966
UST Comprt ID:	24250
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8967
UST Comprt ID:	24249
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	8968
UST Comprt ID:	24248
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A
Self Cert ID:	2280
Cert ID:	252239
UST Comprt ID:	725232
UST ID:	9186
AI Number:	5555
Tank ID:	2
Compartment ID:	A

Facility Billing Contacts:

Contact Organization Name:	LONGHORN ARMY AMMUNITION PLANT
Contact Mailing Address (Delivery):	PO BOX 658
Contact Mailing Address (Internal Delivery):	Not reported
Contact Mailing City/State/Zip:	DOYLINE, LA 71023 0658
Phone Number/Ext:	/
Contact Fax Number/Ext:	/
Contact Email Address:	Not reported
Contact Address Deliverable:	Y
Facility ID:	44113
Additional ID:	763650132003073
Princ ID:	781570652005061
AI Number:	5555
Facility Name:	LONGHORN ARMY AMMUNITION PLANT
AR Number:	Not reported
AR UST Number Suffix:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **U003840531**

AR AST Number Suffix: Not reported
Contact Name/Title: IRA NATHAN/

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51 **LONGHORN ARMY AMMUNITION PLANT** **TX UIC** **S111678891**
15600 ST HWY 134 **TX LIENS** **N/A**
KARNACK, TX 75661

UIC:

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX 75661
Near City:	KARNACK
Authorization Number:	5X2600643
Authorization Date:	3/2/12
Physical Location:	HIGHWAY 43 APPROXIMATELY 14 MI NE OF MARSHALL
Primary Business:	AMMUNITION PYROTECHNICS & MANUFACTURING
Status:	ACTIVE
Date Received:	1/5/11
Affluent Program Contact:	Faye Duke
WWC Tracking:	15481383
Facility / Owner:	Former Longhorn Ammunition Plant
Injection Rate:	1 gphour @ 1 atm
Ownership Type:	Not reported
Injection Fluid:	bioplug
Company Consult Contact:	Bridget LaBorde
Latitude:	32.679720
Longitude:	-94.137219
Company Consult:	Advanced BioSystems
Prior Authorization Number:	Not reported
Company Consult Phone:	225-405-3612
High Priority:	Not reported
Project Manager:	Bryan Smith
Affiliated Program:	Superfund Site
Comments:	Not reported
Date Closure:	Not reported
Status Report:	Quarterly
Last Reports:	Not reported
File in Central Records:	Not reported
Well Type:	Aquifer Remediation
Number of Wells:	450 IW's
Well Site:	Not reported
Wells in SWA:	Not reported
Well Name:	Not reported
Status Date:	Not reported
P AND A:	Not reported
Total Depth:	35 ft
Injection Zone Top:	10
Injection Zone Bottom:	35
AOR Well:	Not reported
IZ Name:	Upper Shallow Zone
IZ Lithology:	clay / silt & clay sand / clay
IZ Permeability:	Not reported
IZ Porosity:	Not reported
USDW Depth:	Not reported
OFF Inj:	Not reported
PAA Number:	Not reported
Company:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

Issued Date:	Not reported
Expired Date:	Not reported
Renewed Date:	Not reported
Revoked Date:	Not reported
Mined:	Not reported
Amend MOD Activity:	Not reported
Region:	Not reported
Operator Status:	Not reported
Operator Status Date:	Not reported
Well Number:	Not reported
AQUI Exempt:	Not reported
Program:	UNDERGROUND INJECTION CONTROL
Permit Type:	PERMIT

Customer:

RN Number:	RN101264505
Customer Number:	CN600126262
Customer Name:	US DEPARTMENT OF THE ARMY
Customer Role:	OWNER OPERATOR, RESPONSIBLE PARTY

RN Number:	RN101264505
Customer Number:	CN600696025
Customer Name:	LONGHORN PLANT
Customer Role:	OWNER OPERATOR

RN Number:	RN101264505
Customer Number:	CN602794802
Customer Name:	LONGHORN ARMY AMMUNITION PLANT
Customer Role:	OWNER

Industry:

RN Number:	RN101264505
Code:	928110
Classification:	NAICS
Name:	National Security

LIENS:

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-25
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2012-000000715 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

Property Description: (SUMP 103)

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
City,State,Zip: KARNACK, TX
SUP No: SUP126
SUP Tract No: SUP126TRACT LHAAP-25
Multiple Properties: Not reported
Lien Phase: Not reported
Property Owner: UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount: Not reported
Number of Acres: Not reported
Volume, Page: DOC #2012-000000716 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required: Not reported
Filing Type: OTHER DEED FILING
Filing Notes: DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc: Not reported
Eng Controls Required: Not reported
Property Description: (SUMP 104)

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
City,State,Zip: KARNACK, TX
SUP No: SUP126
SUP Tract No: SUP126TRACT LHAAP-25
Multiple Properties: Not reported
Lien Phase: Not reported
Property Owner: UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount: Not reported
Number of Acres: Not reported
Volume, Page: DOC #2012-000000717 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required: Not reported
Filing Type: OTHER DEED FILING
Filing Notes: DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc: Not reported
Eng Controls Required: Not reported
Property Description: (SUMP 105)

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
City,State,Zip: KARNACK, TX
SUP No: SUP126
SUP Tract No: SUP126TRACT LHAAP-25
Multiple Properties: Not reported
Lien Phase: Not reported
Property Owner: UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount: Not reported
Number of Acres: Not reported
Volume, Page: DOC #2012-000000718 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required: Not reported
Filing Type: OTHER DEED FILING

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	(SUMP 123)

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-25
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2012-000000719 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	(WR SUMP001)

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-25
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2012-000000720 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	(WR SUMP002)

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-25
Multiple Properties:	Not reported
Lien Phase:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2012-000000721 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	(WR SUMP 003)

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-25
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2012-000000707 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	RESTRICTIVE COVENANT FOR INSTITUTIONAL CONTROL (350.111)
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	(SUMP 095)

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-25
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2012-000000708 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	(SUMP 096)

Name: LONGHORN ARMY AMMUNITION PLANT

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-25
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2012-000000709 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	(SUMP 097)

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-25
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2012-000000710 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	(SUMP 098)

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-25
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2012-000000711 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

PURPOSES.
Date County Filed Doc: Not reported
Eng Controls Required: Not reported
Property Description: (SUMP 099)

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
City,State,Zip: KARNACK, TX
SUP No: SUP126
SUP Tract No: SUP126TRACT LHAAP-25
Multiple Properties: Not reported
Lien Phase: Not reported
Property Owner: UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount: Not reported
Number of Acres: Not reported
Volume, Page: DOC #2012-000000712 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required: Not reported
Filing Type: OTHER DEED FILING
Filing Notes: DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc: Not reported
Eng Controls Required: Not reported
Property Description: (SUMP 100)

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
City,State,Zip: KARNACK, TX
SUP No: SUP126
SUP Tract No: SUP126TRACT LHAAP-25
Multiple Properties: Not reported
Lien Phase: Not reported
Property Owner: UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount: Not reported
Number of Acres: Not reported
Volume, Page: DOC #2012-000000713 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required: Not reported
Filing Type: OTHER DEED FILING
Filing Notes: DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc: Not reported
Eng Controls Required: Not reported
Property Description: (SUMP 101)

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
City,State,Zip: KARNACK, TX
SUP No: SUP126
SUP Tract No: SUP126TRACT LHAAP-25
Multiple Properties: Not reported
Lien Phase: Not reported
Property Owner: UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount: Not reported
Number of Acres: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

Volume, Page:	DOC #2012-000000714 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	(SUMP 102)

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-19
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2013-000013785 5 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE AND INSTITUTIONAL CONTROLS. LANDFILL CAP. INSTITUTIONAL CONTROLS PLACED ON THE PROPERTY TO ENSURE APPROPRIATE FUTURE USE INCLUDE: (1) USE MUST REMAIN NON-RESIDENTIAL AS DESCRIBED ABOVE; AND (2) NO ACTIVITY S
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	A C&D LANDFILL

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-66
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2010-000005559 7 PAGES OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	LHAAP-66 (ELECTRIC POWER SUBSTATION AND TRANSFORMER AREA)

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

SUP Tract No: SUP126TRACT LHAAP-67
Multiple Properties: Not reported
Lien Phase: Not reported
Property Owner: UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount: Not reported
Number of Acres: Not reported
Volume, Page: DOC #2014-000013308 8 PAGES OFFICIAL PUBLIC RECORDS
Institutional Controls Required: Not reported
Filing Type: OTHER DEED FILING
Filing Notes: DEED NOTICE FILING FOR LAND USE CONTROLS: GW USE RESTRICTIONS, CONTAINS TRICHLOROETHENE (TCE), 1,1-DICHLOROETHYLENE (1,1-DCE), 1,2-DICHLOROETHANE (1,2-DCA), 1,1,1-TRICHLORORTHANE (1,1,1-TCA), AND 1,1,2-DICHLOROETHANE (1,1,2-TCA) AND OTHER VOLATILE ORGANIC
Date County Filed Doc: Not reported
Eng Controls Required: Not reported
Property Description: LHAAP-67 (UNDERGROUND STORAGE TANK FARM AREA)

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
City,State,Zip: KARNACK, TX
SUP No: SUP126
SUP Tract No: SUP126TRACT LHAAP-68
Multiple Properties: Not reported
Lien Phase: Not reported
Property Owner: UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount: Not reported
Number of Acres: Not reported
Volume, Page: DOC #2010-000005560 7 PAGES OFFICIAL PUBLIC RECORDS
Institutional Controls Required: Not reported
Filing Type: OTHER DEED FILING
Filing Notes: NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc: Not reported
Eng Controls Required: Not reported
Property Description: LHAAP-68 (ASPHALT SURFACE THAT 2 MOBILE 600 GALLON STORAGE TANKS WERE PARKED ON)

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
City,State,Zip: KARNACK, TX
SUP No: SUP126
SUP Tract No: SUP126TRACT PISTOL R
Multiple Properties: Not reported
Lien Phase: Not reported
Property Owner: UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount: Not reported
Number of Acres: Not reported
Volume, Page: DOC #2012-000000705 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required: Not reported
Filing Type: OTHER DEED FILING
Filing Notes: DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc: Not reported
Eng Controls Required: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

Property Description: PISTOL RANGE

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
City,State,Zip: KARNACK, TX
SUP No: SUP126
SUP Tract No: SUP126TRACT001
Multiple Properties: Not reported
Lien Phase: Not reported
Property Owner: UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount: Not reported
Number of Acres: Not reported
Volume, Page: Not reported
Institutional Controls Required: Not reported
Filing Type: Not reported
Filing Notes: Not reported
Date County Filed Doc: Not reported
Eng Controls Required: Not reported
Property Description: THE WHOLE SITE

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
City,State,Zip: KARNACK, TX
SUP No: SUP126
SUP Tract No: SUP126 TRACT LHAAP-0
Multiple Properties: Not reported
Lien Phase: Not reported
Property Owner: UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount: Not reported
Number of Acres: Not reported
Volume, Page: DOC # 2018-000004040 6 PAGES OFFICIAL PUBLIC RECORDS
Institutional Controls Required: Not reported
Filing Type: OTHER DEED FILING
Filing Notes: FUTURE USE OF THESE SITES IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSISTENT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES. THE LUCS PLACED ON THE PROPERTY TO ENSURE APPROPRIATE FUTURE USE INCLUDE: (1) USE MUST REMAIN NON-R
Date County Filed Doc: Not reported
Eng Controls Required: Not reported
Property Description: MRS LHAAP-001-R COVERS AN AREA OF APPROXIMATELY 72.14 ACRE-TRACT, MORE OR LESS, LOCATED IN HARRISON COUNTY, TEXAS, NEAR THE TOWN OF KARNACK, BEING MORE PARTICULARLY DESCRIBED WITH SURVEY PLAT AND METES AND BOUNDS ESTABLISHED IN EXHIBIT A. THE ENTIRE LHAAP-001-R PARCEL IS WITHIN A LUC BOUNDARY WHICH IS DESCRIBED IN EXHIBIT A. MRS LHAAP-003-R COVERS AN AREA OF APPROXIMATELY 79.53 ACRE-TRACT, MORE OR LESS, LOCATED IN HARRISON COUNTY, TEXAS, NEAR THE TOWN OF KARNACK, BEING MORE PARTICULARLY DESCRIBED WITH SURVEY PLAT AND METES AND BOUNDS ESTABLISHED IN EXHIBIT B. THE ENTIRE LHAAP-003-R PARCEL IS WITHIN A LUC BOUNDARY WHICH IS DESCRIBED IN EXHIBIT B.

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
City,State,Zip: KARNACK, TX
SUP No: SUP126
SUP Tract No: SUP126TRACT LHAAP-06
Multiple Properties: Not reported
Lien Phase: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2010-000005555 7 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	(REMAINS OF DEMOLISHED BUILDING 51-F)
Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-07
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2010-000005556 7 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	(REMAINS OF DEMOLISHED BUILDING 50-G)
Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-64
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2010-000005558 7 PAGES OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	LHAAP-64 (FORMER TRANSFORMER STORAGE AREA)
Name:	LONGHORN ARMY AMMUNITION PLANT

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-08
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2011-000003377 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	LHAAP-08 THE FORMER SEWAGE TREATMENT PLANT, INCLUDED STABILIZATION PONDS, DUNBAR FILTERS, SLUDGE DRYING BEDS, AND AN IMHOFF TANK.

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-12
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #7009064 OFFICIAL PUBLIC RECORDS VOLUME 3640 PAGES 1-12
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR INSTITUTIIONAL CONTROLS: GW USE RESTRICTIONS, CONTAINS TRICHLOROETHENE (TCE) AND OTHER VOCS; CAPPED LANDFILL, CAPPED LANDFILL; AND NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITAN
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	LHAAP-12, 12-3 (LANDFILL)

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-35
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2012-000000706 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

	INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	(SUMP 094)
Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-35
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2015-000002402 8 PAGES OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR LAND USE CONTROLS: GW USE RESTRICTIONS, CONTAINS TETRACHLOROETHENE (PCE), TRICHLOROETHENE (TCE), 1,1-DICHLOROETHENE (1,1-DCE), CIS-1,2-DCE, TRANS-1,2-DCE, AND VINYL CHLORIDE(VC); AND NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCE
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	LHAAP-35A-58 (SHOPS AREA)
Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-37
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2015-000002401 8 PAGES OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR LAND USE CONTROLS: GW USE RESTRICTIONS, CONTAINS TETRACHLOROETHENE (PCE), TRICHLOROETHENE (TCE), 1,1-DICHLOROETHENE (1,1-DCE); AND NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITAN
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	LHAAP-35B-37
Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-46
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

Number of Acres:	Not reported
Volume, Page:	DOC #2014-000013307 8 PAGES OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR LAND USE CONTROLS: GW USE RESTRICTIONS, CONTAINS TRICHLOROETHENE (TCE) AND OTHER VOLATILE ORGANIC COMPOUNDS (VOCS); AND NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDU
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	LHAAP-46, 46-2 (PLANT 2 AREA)

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-49
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2012-000000704 7 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	LHAAP-49

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-50
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2015-000006109 8 PAGES OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR LAND USE CONTROLS: GW USE RESTRICTIONS, CONTAINS TETRACHLOROETHYLENE (PCE), TRICHLOROETHENE (TCE), 1,1-DICHLOROETHYLENE (1,1-DCE), 1,2-DICHLOROETHANE (1,2-DCA), CIS-1,2-DICHLOROETHYLENE (CIS-1,2-DCE), VINYL CHLORIDE, AND PERCHLORATE
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	LHAAP-50 (FORMER SUMP WATER TANK)

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-51
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2010-000005557 7 PAGES OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	LHAAP-51 (BUILDING 60-B)

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-55
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2010-000005562 34 PAGES OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	LHAAP-55 (10 SEPTIC TANKS AND LEACHATE FIELD SYSTEMS)

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-59
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2011-000003378 6 PGS OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S111678891**

Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	LHAAP-59
Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
SUP No:	SUP126
SUP Tract No:	SUP126TRACT LHAAP-60
Multiple Properties:	Not reported
Lien Phase:	Not reported
Property Owner:	UNITED STATES DEPARTMENT OF THE ARMY
Lien Amount:	Not reported
Number of Acres:	Not reported
Volume, Page:	DOC #2010-000005561 16 PAGES OFFICIAL PUBLIC RECORDS
Institutional Controls Required:	Not reported
Filing Type:	OTHER DEED FILING
Filing Notes:	DEED NOTICE FILING FOR NON-RESIDENTIAL LAND USE. FUTURE USE OF THE PARCEL IS INTENDED AS A NATIONAL WILDLIFE REFUGE CONSITANT WITH INDUSTRIAL OR RECREATIONAL ACTIVITIES AND NOT FOR RESIDENTIAL PURPOSES.
Date County Filed Doc:	Not reported
Eng Controls Required:	Not reported
Property Description:	LHAAP-60 (BUILDINGS 411, 411-A, 714, AND SHED TS-80)

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51 **LONGHORN ARMY AMMUNITION PLANT** **TX LPST** **S116697049**
15600 ST HWY 134 **N/A**
KARNACK, TX 75661

LPST:

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX 75661
Facility ID:	0005555
LPST Id:	105581
Facility Location:	INTERSECTION OF HIGHWAY 134 & SPUR 449
TCEQ Region# and City:	REGION 05 - TYLER
Region City:	TYLER
Discovered Date:	03/04/1993
Entered Date:	01/14/1993
Reported Date:	11/11/1992
Closure Date:	11/10/1992
Priority:	5 - MINOR SOIL CONTAMINATION - DOES NOT REQUIRE A RAP
Program:	1 - RPR
CA Status:	6A - FINAL CONCURRENCE ISSUED
Priority Description:	MINOR SOIL CONTAMINATION - DOES NOT REQUIRE A RAP
Status:	**FINAL CONCURRENCE ISSUED, CASE CLOSED**
Coordinators Primary:	1/2
Coordinators RPR:	RAY YORK
Responsible Party Name:	Not reported
Responsible Party Contact:	LYNN HUCKLERATH
Responsible Party Address:	PO BOX 1149
Responsible Party City,St,Zip:	MARSHALL, TX 75671
Responsible Party Telephone:	903/679-2980
Reported Date:	11/11/1992
Case Start Date:	11/10/1992

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

51 **LONGHORN ARMY AMMUNITION PLANT** | **TX TIER 2** | **S113697369** | **N/A**
15600 FM 134
KARNACK, TX 75661

TIER 2:

Facility Id:	FATR201294ULFE002QLN
Facility Name:	LONGHORN ARMY AMMUNITION PLANT
Reporting Year:	2012
Facility Country:	USA
Facility Department:	Not reported
Facility Date Modified:	5/10/2013
Date Tier 2 Signed:	2/28/2012
Mailing Address:	P O Box 460
Mailing City/State/Country:	Karnack, TX USA
Dikes/Other Safeguard Meas Emp:	Not reported
All Chemicals Same As Last Year:	True
State Fees Total:	0
Number Of Employess On Site:	2
Site Map:	Not reported
Fire District:	Not reported
Submitted By:	Rose M. Zeiler
Latitude:	32.667971
Longitude:	94.165694
Lat/Long Location Desc:	Flag Pole at Entrance of Facility
Lat/Long Method:	S1 - Classical Surveying
Site Coordinate Abbr Submitted:	Not reported
Number Of Emp. Required:	Not reported
Fail Valid:	Not reported
Site Coordinate Abbr Submitted:	Not reported
Mail Address:	Not reported
Mail City:	Not reported
Mail State Req.:	Not reported
Fire District:	Not reported
Additional Mail Addr:	Not reported

Facility Info:

Id:	92811
Id Type:	NAICS
Description:	National Security
Last Modified:	2/28/2013
Id:	9711
Id Type:	SIC
Description:	NATIONAL SECURITY
Last Modified:	2/28/2013
Id:	Not reported
Id Type:	Dun & Bradstreet
Description:	Not reported
Last Modified:	2/28/2013

Contact:

Contact Email:	rose.zeiler@us.army.mil
Contact Mail Address:	P O Box 220
Contact City/State/Zip:	Ratcliff, AR 72951
Contact Mail Country:	USA
Contact Type 1:	Owner / Operator
Contact Type 2:	Owner / Operator
Contact Name:	Rose Zeiler
Title:	Site Manager

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S113697369**

Modification Date: 3/8/2013

Contact:
Contact Email: marwan.salameh@aecom.com
Contact Mail Address: 16000 Dallas Parkway, Suite 350
Contact City/State/Zip: Dallas, TX 75248
Contact Mail Country: USA
Contact Type 1: Regulatory Point of Contact
Contact Type 2: Emergency Contact
Contact Name: Marwan Salameh
Title: Project Engineer
Modification Date: 3/8/2013

Chemical Inventory:
Facility Id: FATR201294ULFE002QLN
Chemical Name: Acetic Acid, 50%
Chemical Inv Record Id: CVTR201294UM7000GVE8
CAS Number: 64-19-7
Chemical Same As Last Year: T
Acute Health Risks: T
Average Daily Amount: 1,000 - 9,999 pounds
Max Daily Amount: 1,000 - 9,999 pounds
Max Amount In Largest Container: 450
Chronic Health Risks: Not reported
EHS Substance: Not reported
Last Modified: 3/8/2013
Days On Site: 365
Fire Hazard: Not reported
Gas: Not reported
Liquid: T
Mixture Form: Not reported
Sudden Release Of Pressure Haz: Not reported
Pure Form: T
Reactive Hazard: T
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201294UMCQ00HTGD
Chemical Inventory Record Id: CVTR201294UM7000GVE8
Amt Of Sub Stored Or Transported: 3520
Amount Units: pounds
Type Of Storage: Plastic or non-metallic drum
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Groundwater Treatment Plant
Last Modified: 3/8/2013

Facility Id: FATR201294ULFE002QLN
Chemical Name: Chlorine
Chemical Inv Record Id: CVTR201294UMF000JSM1
CAS Number: 7782-50-5

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S113697369**

Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	0 - 99 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	150
Chronic Health Risks:	Not reported
EHS Substance:	T
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	Not reported
Gas:	T
Liquid:	Not reported
Mixture Form:	Not reported
Sudden Release Of Pressure Haz:	T
Pure Form:	T
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201294UMJ500KH9A
Chemical Inventory Record Id:	CVTR201294UMF000JSM1
Amt Of Sub Stored Or Transported:	600
Amount Units:	pounds
Type Of Storage:	Cylinder
Number Code/Storage Pressure:	2
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	Potable Water Well No. 1
Last Modified:	3/8/2013

Facility Id:	FATR201294ULFE002QLN
Chemical Name:	Hydrochloric Acid, 30%
Chemical Inv Record Id:	CVTR201294UMPQ00LB50
CAS Number:	7647-01-0
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	100,000 - 999,999 pounds
Max Amount In Largest Container:	110000
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	Not reported
Gas:	Not reported
Liquid:	T
Mixture Form:	Not reported
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	T
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S113697369**

Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201294UMT300M8CM
Chemical Inventory Record Id: CVTR201294UMPQ00LB50
Amt Of Sub Stored Or Transported: 10000
Amount Units: gallons
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Groundwater Treatment Plant
Last Modified: 3/8/2013

Facility Id: FATR201294ULFE002QLN
Chemical Name: Magnesium Hydroxide
Chemical Inv Record Id: CVTR201294UMU000N1QA
CAS Number: 1309-42-8
Chemical Same As Last Year: T
Acute Health Risks: Not reported
Average Daily Amount: 10,000 - 99,999 pounds
Max Daily Amount: 10,000 - 99,999 pounds
Max Amount In Largest Container: 33000
Chronic Health Risks: T
EHS Substance: Not reported
Last Modified: 3/8/2013
Days On Site: 365
Fire Hazard: Not reported
Gas: Not reported
Liquid: T
Mixture Form: Not reported
Sudden Release Of Pressure Haz: Not reported
Pure Form: T
Reactive Hazard: T
Solid: Not reported
Trade Secret: Not reported
Contact Label: Not reported
Label Code: TX2012
Trade Secret: Not reported

Chemical Inventory Location:
Record Key: CLTR201294UMWG00P6N3
Chemical Inventory Record Id: CVTR201294UMU000N1QA
Amt Of Sub Stored Or Transported: 7000
Amount Units: gallons
Type Of Storage: Above ground tank
Number Code/Storage Pressure: 1
Number Code/Storage Temperature: 4
Desc of Loc(Or Transported) Subs: Groundwater Treatment Plant
Last Modified: 3/8/2013

Facility Id: FATR201294ULFE002QLN
Chemical Name: Phosphoric Acid, 75%
Chemical Inv Record Id: CVTR201294UMX800QV06
CAS Number: 7664-38-2
Chemical Same As Last Year: T
Acute Health Risks: T

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S113697369**

Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	600
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	Not reported
Gas:	Not reported
Liquid:	T
Mixture Form:	Not reported
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	T
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201294UMZ500RHBM
Chemical Inventory Record Id:	CVTR201294UMX800QV06
Amt Of Sub Stored Or Transported:	55
Amount Units:	gallons
Type Of Storage:	Plastic or non-metallic drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	Groundwater Treatment Plant
Last Modified:	3/8/2013

Facility Id:	FATR201294ULFE002QLN
Chemical Name:	Sodium Hydroxide
Chemical Inv Record Id:	CVTR201294UN0D00SK87
CAS Number:	1310-73-2
Chemical Same As Last Year:	T
Acute Health Risks:	T
Average Daily Amount:	10,000 - 99,999 pounds
Max Daily Amount:	10,000 - 99,999 pounds
Max Amount In Largest Container:	80000
Chronic Health Risks:	Not reported
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	Not reported
Gas:	Not reported
Liquid:	T
Mixture Form:	Not reported
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	T
Reactive Hazard:	T
Solid:	Not reported
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

LONGHORN ARMY AMMUNITION PLANT (Continued) **S113697369**

Chemical Inventory Location:

Record Key:	CLTR201294UN2200T0J8
Chemical Inventory Record Id:	CVTR201294UN0D00SK87
Amt Of Sub Stored Or Transported:	8000
Amount Units:	gallons
Type Of Storage:	Above ground tank
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	Groundwater Treatment Plant
Last Modified:	3/8/2013

Facility Id:	FATR201294ULFE002QLN
Chemical Name:	Urea
Chemical Inv Record Id:	CVTR201294UN2T00UNS7
CAS Number:	57-13-6
Chemical Same As Last Year:	T
Acute Health Risks:	Not reported
Average Daily Amount:	100 - 999 pounds
Max Daily Amount:	100 - 999 pounds
Max Amount In Largest Container:	50
Chronic Health Risks:	T
EHS Substance:	Not reported
Last Modified:	3/8/2013
Days On Site:	365
Fire Hazard:	T
Gas:	Not reported
Liquid:	Not reported
Mixture Form:	Not reported
Sudden Release Of Pressure Haz:	Not reported
Pure Form:	T
Reactive Hazard:	Not reported
Solid:	T
Trade Secret:	Not reported
Contact Label:	Not reported
Label Code:	TX2012
Trade Secret:	Not reported

Chemical Inventory Location:

Record Key:	CLTR201294UN4K00V6UE
Chemical Inventory Record Id:	CVTR201294UN2T00UNS7
Amt Of Sub Stored Or Transported:	300
Amount Units:	pounds
Type Of Storage:	Fiber drum
Number Code/Storage Pressure:	1
Number Code/Storage Temperature:	4
Desc of Loc(Or Transported) Subs:	Groundwater Treatment Plant
Last Modified:	3/8/2013

Notes: Not reported
Validation: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

51 SAM ROBBINS CONSTRUCTION | **TX AST** | **A100379025**
15600 HWY 134 | **N/A**
KARNACK, TX

AST:

Name:	SAM ROBBINS CONSTRUCTION
Address:	15600 HWY 134
City,State,Zip:	KARNACK, TX
Facility ID:	131011
Additional ID:	322345902013071
AI Number:	85710
Facility Type:	INDUST/MFG/CHEM PLANT
Facility Begin Date:	07/31/2012
Facility Status:	ACTIVE
Facility Exempt Status:	N
Records Off-Site:	N
UST Financial Assurance Required:	N
Number of Active ASTs:	1
Site Location Description:	Not reported
Site Location (nearest city name):	Not reported
Site Location (county name):	HARRISON
Site Location (TCEQ region):	5
Site Location (location zip):	Not reported
Contact Name/Title:	MATT CHITTY/
Contact Organization Name:	Not reported
Contact Mailing Address1:	15600 HWY 134
Contact Mailing Address2:	Not reported
Contact CityStateZip:	KARNACK TX
Contact Telephone:	9032782224
Contact Address Deliverable:	N
Contact Fax Number:	Not reported
Contact Email Address:	Not reported
Signature Date on Earliest Reg Form:	02/25/2013
Signature First Name on Earliest Reg Form:	CHARLES A
Application Received Date on Earliest Reg Form:	02/25/2013
Signature Middle Name on Earliest Reg Form:	Not reported
Signature Last Name on Earliest Reg Form:	BURGE
Signature Title on Earliest Reg Form:	PRESIDENT
Signature Role on Earliest Reg Form:	LEGALLY-AUTHORIZED REP OF OWNER
Signature Company on Earliest Reg Form:	Not reported
Enforcement Action:	Not reported
Facility Not Inspectable:	N
Facility Not Inspectable Reason A:	Not reported
Facility Not Inspectable Reason B:	Not reported
Enforcement Action Date:	Not reported

Facility:

Facility ID:	131011
Tank ID:	SAMROBBIN
AST ID:	218260
AI Number:	85710
Install Date:	07/31/2012
Tank Registration Date:	02/25/2013
Mult Comp:	N
Tank Status:	IN USE
Tank Status Date:	07/31/2012
Tank Reg Status:	FULLY REGULATED
Tank Capacity:	2000
Substance:	DIESEL
Other Substance B:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SAM ROBBINS CONSTRUCTION (Continued) **A100379025**

Other Substance C:	Not reported
Steel:	Y
Fiber:	N
Aluminum:	N
Metal:	N
Concrete:	N
Dike:	N
Liner:	Y
Contains CO:	N
Contains NO:	N
Vapor Rec:	Not reported
Inst Stage Date:	Not reported

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51 **US FISH AND WILDLIFE BUILDING 703B AND D** **TX ASBESTOS** **S126248643**
15600 HIGHWAY 134 **N/A**
KARNACK, TX 75661

ASBESTOS:

Name:	US FISH AND WILDLIFE BUILDING 703B AND D
Address:	15600 HIGHWAY 134
City,State,Zip:	KARNACK, TX 75661
Date of inspection:	Not reported
Reason for Inspection:	J. MARK SWINNEA P.E.
Violation:	Not reported
Complaint Date:	03/24/2020
Notification Number:	2020001900
ASB Priority:	Not reported
PIF State:	Not reported
Detained:	Not reported
Product Name:	Not reported
Time Spent:	Not reported
Travel Time:	Not reported
Mileage:	Not reported
Reg:	Not reported
Init:	Not reported
Seq:	Not reported
Facility Type:	Federal
Inspector Name:	Not reported
Date Report Received:	05/28/2020
Date Routed by Supervisor:	Not reported
Date Routed to PSQA:	Not reported
Date Reviewed by PSQA:	Not reported
Date Routed by Supervisor1:	Not reported
Date Rtnd to Inspector Corrections:	Not reported
Date Rcvd Back:	Not reported
Date Rtnd to Inspector Corrections2:	Not reported
Date Rcvd Back 2:	Not reported
Date Rtnd to Inspector Corrections 3:	Not reported
Date Rcvd Back 3:	Not reported
Notification Status:	Current
Amendo:	4
Notification Work Type:	Abatement/Demolition (Both)
Notification Type:	Amendment
Work Type Flag:	A
Certification Statement Date:	05/28/2020
Certification Statement Phone:	903-882-6865
Is The Facility a School or K-12?:	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

US FISH AND WILDLIFE BUILDING 703B AND D (Continued) **S126248643**

Region:	04
Priority:	LOW
ARU:	4
Is this a phased abatement project?:	N
Ordered:	N
Is This Project an Emergency?:	N
Is Building Occupied?:	N
High Profile:	N
Ref Method:	Full Containment
Analytical Method:	PLM
Start Date:	03/16/2020
Client Code:	Not reported
Client Name:	Not reported
License Number:	Not reported
File Number:	Not reported
License Status Description:	Not reported
Expiration Date:	Not reported
Original Date:	Not reported
Rank Effective Date:	Not reported
Mod Code:	Not reported
Area:	Not reported
Staff Operator ID:	Not reported
Inspection Number:	Not reported
Inspection Status:	Not reported
Disposition:	Not reported
Inspection Class Descriptio:	Not reported
Inspection Secondary Class Code:	Not reported
Inspection Secondary Class Code Description:	Not reported
Results:	Not reported
Inspection Number Grade:	Not reported

Name:	US FISH AND WILDLIFE BUILDING 703B AND D
Address:	15600 HIGHWAY 134
City,State,Zip:	KARNACK, TX 75661
Date of inspection:	Not reported
Reason for Inspection:	J. MARK SWINNEA P.E.
Violation:	Not reported
Complaint Date:	09/04/2020
Notification Number:	2020001900
ASB Priority:	Not reported
PIF State:	Not reported
Detained:	Not reported
Product Name:	Not reported
Time Spent:	Not reported
Travel Time:	Not reported
Mileage:	Not reported
Reg:	Not reported
Init:	Not reported
Seq:	Not reported
Facility Type:	Federal
Inspector Name:	Not reported
Date Report Received:	05/28/2020
Date Routed by Supervisor:	Not reported
Date Routed to PSQA:	Not reported
Date Reviewed by PSQA:	Not reported
Date Routed by Supervisor1:	Not reported
Date Rtnd to Inspector Corrections:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

US FISH AND WILDLIFE BUILDING 703B AND D (Continued) **S126248643**

Date Rcvd Back:	Not reported
Date Rtnd to Inspector Corrections2:	Not reported
Date Rcvd Back 2:	Not reported
Date Rtnd to Inspector Corrections 3:	Not reported
Date Rcvd Back 3:	Not reported
Notification Status:	Current
Amendo:	4
Notification Work Type:	Abatement/Demolition (Both)
Notification Type:	Amendment
Work Type Flag:	D
Certification Statement Date:	05/28/2020
Certification Statement Phone:	903-882-6865
Is The Facility a School or K-12?:	N
Region:	04
Priority:	LOW
ARU:	4
Is this a phased abatement project?:	N
Ordered:	N
Is This Project an Emergency?:	N
Is Building Occupied?:	N
High Profile:	N
Ref Method:	Full Containment
Analytical Method:	PLM
Start Date:	08/03/2020
Client Code:	Not reported
Client Name:	Not reported
License Number:	Not reported
File Number:	Not reported
License Status Description:	Not reported
Expiration Date:	Not reported
Original Date:	Not reported
Rank Effective Date:	Not reported
Mod Code:	Not reported
Area:	Not reported
Staff Operator ID:	Not reported
Inspection Number:	Not reported
Inspection Status:	Not reported
Disposition:	Not reported
Inspection Class Descriptio:	Not reported
Inspection Secondary Class Code:	Not reported
Inspection Secondary Class Code Description:	Not reported
Results:	Not reported
Inspection Number Grade:	Not reported

Name:	US FISH AND WILDLIFE BUILDING 703B AND D
Address:	15600 HIGHWAY 134
City,State,Zip:	KARNACK, TX 75661
Date of inspection:	Not reported
Reason for Inspection:	J. MARK SWINNEA
Violation:	Not reported
Complaint Date:	03/24/2020
Notification Number:	2020001900
ASB Priority:	Not reported
PIF State:	Not reported
Detained:	Not reported
Product Name:	Not reported
Time Spent:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

US FISH AND WILDLIFE BUILDING 703B AND D (Continued) **S126248643**

Travel Time:	Not reported
Mileage:	Not reported
Reg:	Not reported
Init:	Not reported
Seq:	Not reported
Facility Type:	Federal
Inspector Name:	Not reported
Date Report Received:	03/18/2020
Date Routed by Supervisor:	Not reported
Date Routed to PSQA:	Not reported
Date Reviewed by PSQA:	Not reported
Date Routed by Supervisor1:	Not reported
Date Rtnd to Inspector Corrections:	Not reported
Date Rcvd Back:	Not reported
Date Rtnd to Inspector Corrections2:	Not reported
Date Rcvd Back 2:	Not reported
Date Rtnd to Inspector Corrections 3:	Not reported
Date Rcvd Back 3:	Not reported
Notification Status:	Current/Has Amendment
Amendo:	2
Notification Work Type:	Abatement/Demolition (Both)
Notification Type:	Amendment
Work Type Flag:	A
Certification Statement Date:	03/18/2020
Certification Statement Phone:	903-882-6865
Is The Facility a School or K-12?:	N
Region:	04
Priority:	LOW
ARU:	4
Is this a phased abatement project?:	N
Ordered:	N
Is This Project an Emergency?:	N
Is Building Occupied?:	N
High Profile:	N
Ref Method:	Full Containment
Analytical Method:	PLM
Start Date:	03/16/2020
Client Code:	Not reported
Client Name:	Not reported
License Number:	Not reported
File Number:	Not reported
License Status Description:	Not reported
Expiration Date:	Not reported
Original Date:	Not reported
Rank Effective Date:	Not reported
Mod Code:	Not reported
Area:	Not reported
Staff Operator ID:	Not reported
Inspection Number:	Not reported
Inspection Status:	Not reported
Disposition:	Not reported
Inspection Class Descriptio:	Not reported
Inspection Secondary Class Code:	Not reported
Inspection Secondary Class Code Description:	Not reported
Results:	Not reported
Inspection Number Grade:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

US FISH AND WILDLIFE BUILDING 703B AND D (Continued) **S126248643**

Name:	US FISH AND WILDLIFE BUILDING 703B AND D
Address:	15600 HIGHWAY 134
City,State,Zip:	KARNACK, TX 75661
Date of inspection:	Not reported
Reason for Inspection:	J. MARK SWINNEA
Violation:	Not reported
Complaint Date:	06/04/2020
Notification Number:	2020001900
ASB Priority:	Not reported
PIF State:	Not reported
Detained:	Not reported
Product Name:	Not reported
Time Spent:	Not reported
Travel Time:	Not reported
Mileage:	Not reported
Reg:	Not reported
Init:	Not reported
Seq:	Not reported
Facility Type:	Federal
Inspector Name:	Not reported
Date Report Received:	03/18/2020
Date Routed by Supervisor:	Not reported
Date Routed to PSQA:	Not reported
Date Reviewed by PSQA:	Not reported
Date Routed by Supervisor1:	Not reported
Date Rtnd to Inspector Corrections:	Not reported
Date Rcvd Back:	Not reported
Date Rtnd to Inspector Corrections2:	Not reported
Date Rcvd Back 2:	Not reported
Date Rtnd to Inspector Corrections 3:	Not reported
Date Rcvd Back 3:	Not reported
Notification Status:	Current/Has Amendment
Amendo:	2
Notification Work Type:	Abatement/Demolition (Both)
Notification Type:	Amendment
Work Type Flag:	D
Certification Statement Date:	03/18/2020
Certification Statement Phone:	903-882-6865
Is The Facility a School or K-12?:	N
Region:	04
Priority:	LOW
ARU:	4
Is this a phased abatement project?:	N
Ordered:	N
Is This Project an Emergency?:	N
Is Building Occupied?:	N
High Profile:	N
Ref Method:	Full Containment
Analytical Method:	PLM
Start Date:	05/04/2020
Client Code:	Not reported
Client Name:	Not reported
License Number:	Not reported
File Number:	Not reported
License Status Description:	Not reported
Expiration Date:	Not reported
Original Date:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

US FISH AND WILDLIFE BUILDING 703B AND D (Continued) **S126248643**

Rank Effective Date:	Not reported
Mod Code:	Not reported
Area:	Not reported
Staff Operator ID:	Not reported
Inspection Number:	Not reported
Inspection Status:	Not reported
Disposition:	Not reported
Inspection Class Descriptio:	Not reported
Inspection Secondary Class Code:	Not reported
Inspection Secondary Class Code Description:	Not reported
Results:	Not reported
Inspection Number Grade:	Not reported
Name:	US FISH AND WILDLIFE BUILDING 703B AND D
Address:	15600 HIGHWAY 134
City,State,Zip:	KARNACK, TX 75661
Date of inspection:	Not reported
Reason for Inspection:	J. MARK SWINNEA P.E.
Violation:	Not reported
Complaint Date:	03/24/2020
Notification Number:	2020001900
ASB Priority:	Not reported
PIF State:	Not reported
Detained:	Not reported
Product Name:	Not reported
Time Spent:	Not reported
Travel Time:	Not reported
Mileage:	Not reported
Reg:	Not reported
Init:	Not reported
Seq:	Not reported
Facility Type:	Federal
Inspector Name:	Not reported
Date Report Received:	04/28/2020
Date Routed by Supervisor:	Not reported
Date Routed to PSQA:	Not reported
Date Reviewed by PSQA:	Not reported
Date Routed by Supervisor1:	Not reported
Date Rtnd to Inspector Corrections:	Not reported
Date Rcvd Back:	Not reported
Date Rtnd to Inspector Corrections2:	Not reported
Date Rcvd Back 2:	Not reported
Date Rtnd to Inspector Corrections 3:	Not reported
Date Rcvd Back 3:	Not reported
Notification Status:	Current/Has Amendment
Amendo:	3
Notification Work Type:	Abatement/Demolition (Both)
Notification Type:	Amendment
Work Type Flag:	A
Certification Statement Date:	04/28/2020
Certification Statement Phone:	903-882-6865
Is The Facility a School or K-12?:	N
Region:	04
Priority:	LOW
ARU:	4
Is this a phased abatement project?:	N
Ordered:	N

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

US FISH AND WILDLIFE BUILDING 703B AND D (Continued) **S126248643**

Is This Project an Emergency?:	N
Is Building Occupied?:	N
High Profile:	N
Ref Method:	Full Containment
Analytical Method:	PLM
Start Date:	03/16/2020
Client Code:	Not reported
Client Name:	Not reported
License Number:	Not reported
File Number:	Not reported
License Status Description:	Not reported
Expiration Date:	Not reported
Original Date:	Not reported
Rank Effective Date:	Not reported
Mod Code:	Not reported
Area:	Not reported
Staff Operator ID:	Not reported
Inspection Number:	Not reported
Inspection Status:	Not reported
Disposition:	Not reported
Inspection Class Descriptio:	Not reported
Inspection Secondary Class Code:	Not reported
Inspection Secondary Class Code Description:	Not reported
Results:	Not reported
Inspection Number Grade:	Not reported

Name:	US FISH AND WILDLIFE BUILDING 703B AND D
Address:	15600 HIGHWAY 134
City,State,Zip:	KARNACK, TX 75661
Date of inspection:	Not reported
Reason for Inspection:	J. MARK SWINNEA P.E.
Violation:	Not reported
Complaint Date:	07/03/2020
Notification Number:	2020001900
ASB Priority:	Not reported
PIF State:	Not reported
Detained:	Not reported
Product Name:	Not reported
Time Spent:	Not reported
Travel Time:	Not reported
Mileage:	Not reported
Reg:	Not reported
Init:	Not reported
Seq:	Not reported
Facility Type:	Federal
Inspector Name:	Not reported
Date Report Received:	04/28/2020
Date Routed by Supervisor:	Not reported
Date Routed to PSQA:	Not reported
Date Reviewed by PSQA:	Not reported
Date Routed by Supervisor1:	Not reported
Date Rtnd to Inspector Corrections:	Not reported
Date Rcvd Back:	Not reported
Date Rtnd to Inspector Corrections2:	Not reported
Date Rcvd Back 2:	Not reported
Date Rtnd to Inspector Corrections 3:	Not reported
Date Rcvd Back 3:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

US FISH AND WILDLIFE BUILDING 703B AND D (Continued) **S126248643**

Notification Status:	Current/Has Amendment
Amendo:	3
Notification Work Type:	Abatement/Demolition (Both)
Notification Type:	Amendment
Work Type Flag:	D
Certification Statement Date:	04/28/2020
Certification Statement Phone:	903-882-6865
Is The Facility a School or K-12?:	N
Region:	04
Priority:	LOW
ARU:	4
Is this a phased abatement project?:	N
Ordered:	N
Is This Project an Emergency?:	N
Is Building Occupied?:	N
High Profile:	N
Ref Method:	Full Containment
Analytical Method:	PLM
Start Date:	06/01/2020
Client Code:	Not reported
Client Name:	Not reported
License Number:	Not reported
File Number:	Not reported
License Status Description:	Not reported
Expiration Date:	Not reported
Original Date:	Not reported
Rank Effective Date:	Not reported
Mod Code:	Not reported
Area:	Not reported
Staff Operator ID:	Not reported
Inspection Number:	Not reported
Inspection Status:	Not reported
Disposition:	Not reported
Inspection Class Descriptio:	Not reported
Inspection Secondary Class Code:	Not reported
Inspection Secondary Class Code Description:	Not reported
Results:	Not reported
Inspection Number Grade:	Not reported

Name:	US FISH AND WILDLIFE BUILDING 703B AND D
Address:	15600 HIGHWAY 134
City,State,Zip:	KARNACK, TX 75661
Date of inspection:	Not reported
Reason for Inspection:	J. MARK SWINNEA P.E.
Violation:	Not reported
Complaint Date:	03/25/2020
Notification Number:	2020001900
ASB Priority:	Not reported
PIF State:	Not reported
Detained:	Not reported
Product Name:	Not reported
Time Spent:	Not reported
Travel Time:	Not reported
Mileage:	Not reported
Reg:	Not reported
Init:	Not reported
Seq:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

US FISH AND WILDLIFE BUILDING 703B AND D (Continued) **S126248643**

Facility Type:	Public
Inspector Name:	Not reported
Date Report Received:	03/02/2020
Date Routed by Supervisor:	Not reported
Date Routed to PSQA:	Not reported
Date Reviewed by PSQA:	Not reported
Date Routed by Supervisor1:	Not reported
Date Rtnd to Inspector Corrections:	Not reported
Date Rcvd Back:	Not reported
Date Rtnd to Inspector Corrections2:	Not reported
Date Rcvd Back 2:	Not reported
Date Rtnd to Inspector Corrections 3:	Not reported
Date Rcvd Back 3:	Not reported
Notification Status:	Current/Has Amendment
Amendo:	1
Notification Work Type:	Abatement/Demolition (Both)
Notification Type:	Amendment
Work Type Flag:	A
Certification Statement Date:	03/02/2020
Certification Statement Phone:	903-882-6865
Is The Facility a School or K-12?:	N
Region:	04
Priority:	HIGH
ARU:	32
Is this a phased abatement project?:	N
Ordered:	N
Is This Project an Emergency?:	N
Is Building Occupied?:	N
High Profile:	N
Ref Method:	Full Containment
Analytical Method:	PLM
Start Date:	03/16/2020
Client Code:	Not reported
Client Name:	Not reported
License Number:	Not reported
File Number:	Not reported
License Status Description:	Not reported
Expiration Date:	Not reported
Original Date:	Not reported
Rank Effective Date:	Not reported
Mod Code:	Not reported
Area:	Not reported
Staff Operator ID:	Not reported
Inspection Number:	Not reported
Inspection Status:	Not reported
Disposition:	Not reported
Inspection Class Descriptio:	Not reported
Inspection Secondary Class Code:	Not reported
Inspection Secondary Class Code Description:	Not reported
Results:	Not reported
Inspection Number Grade:	Not reported

Name:	US FISH AND WILDLIFE BUILDING 703B AND D
Address:	15600 HIGHWAY 134
City,State,Zip:	KARNACK, TX 75661
Date of inspection:	Not reported
Reason for Inspection:	J. MARK SWINNEA P.E.

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

US FISH AND WILDLIFE BUILDING 703B AND D (Continued) **S126248643**

Violation:	Not reported
Complaint Date:	04/30/2020
Notification Number:	2020001900
ASB Priority:	Not reported
PIF State:	Not reported
Detained:	Not reported
Product Name:	Not reported
Time Spent:	Not reported
Travel Time:	Not reported
Mileage:	Not reported
Reg:	Not reported
Init:	Not reported
Seq:	Not reported
Facility Type:	Public
Inspector Name:	Not reported
Date Report Received:	03/02/2020
Date Routed by Supervisor:	Not reported
Date Routed to PSQA:	Not reported
Date Reviewed by PSQA:	Not reported
Date Routed by Supervisor1:	Not reported
Date Rtnd to Inspector Corrections:	Not reported
Date Rcvd Back:	Not reported
Date Rtnd to Inspector Corrections2:	Not reported
Date Rcvd Back 2:	Not reported
Date Rtnd to Inspector Corrections 3:	Not reported
Date Rcvd Back 3:	Not reported
Notification Status:	Current/Has Amendment
Amendo:	1
Notification Work Type:	Abatement/Demolition (Both)
Notification Type:	Amendment
Work Type Flag:	D
Certification Statement Date:	03/02/2020
Certification Statement Phone:	903-882-6865
Is The Facility a School or K-12?:	N
Region:	04
Priority:	HIGH
ARU:	32
Is this a phased abatement project?:	N
Ordered:	N
Is This Project an Emergency?:	N
Is Building Occupied?:	N
High Profile:	N
Ref Method:	Full Containment
Analytical Method:	PLM
Start Date:	03/30/2020
Client Code:	Not reported
Client Name:	Not reported
License Number:	Not reported
File Number:	Not reported
License Status Description:	Not reported
Expiration Date:	Not reported
Original Date:	Not reported
Rank Effective Date:	Not reported
Mod Code:	Not reported
Area:	Not reported
Staff Operator ID:	Not reported
Inspection Number:	Not reported

MAP FINDINGS

Map ID / Direction / Distance / Distance (ft.) | Site | Database(s) | EDR ID Number / EPA ID Number

US FISH AND WILDLIFE BUILDING 703B AND D (Continued) **S126248643**

Inspection Status:	Not reported
Disposition:	Not reported
Inspection Class Descriptio:	Not reported
Inspection Secondary Class Code:	Not reported
Inspection Secondary Class Code Description:	Not reported
Results:	Not reported
Inspection Number Grade:	Not reported

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51 **SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT** **TX Ind. Haz Waste** **S105168070**
15600 ST HWY 134 **TX GCC** **N/A**
KARNACK, TX 75661 **TX IHW CORR ACTION**

Ind. Haz Waste:

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX 75661
Registration Number:	30990
Registration Initial Notification Date:	04/12/1977
Registration Last Amendment Date:	04/18/2019
EPA Identification:	TX6213820529
Primary NAICS Code:	928110
Status Change Date:	19770412
Land Type:	FEDERAL
Description of Facility Site Location:	Not reported
Site Primary Standard Industrial Code:	Not reported
Site Primary SIC Description:	Not reported
Registration is Generator of Waste:	Yes
Registration is Receivers of Waste:	No
Registration is Transporter of Waste:	No
Registration is Transfer Facility:	No
Facility is STEERS Reporter:	Yes
Reqired to Submit Annual Waste Summary:	Yes
Facility Involved In Recycling:	No
Revcr Has Monthly Reporting Requirement:	0
Mexican Facility:	Not reported
Type of Generator:	INDUS, CESQG
TNRCC Region:	Not reported
Company Name:	US DEPARTMENT OF THE ARMY
Contact Name:	ROSE ZEILER
Contact Telephone Number:	479-6350110
Mailing Address:	727 S BROOKLYN RD
Mailing Address2:	Not reported
Mailing City,St,Zip:	RATCLIFF, AR 729519083
Mailing County:	UNITED STATES
Facility Country:	UNITED STATES
TNRCC Facility ID:	8550
Site Owner Tax ID:	0
Site Location Latitude:	-00.000
Site Location Longitude:	-000.000
Last Update to NOR Data:	20190418
Ind. waste permit Number:	Not reported
Mun waste permit Number:	Not reported
Non Notifier:	No

Business Records Not Found for this RegNo/Year:

Owner:

Owner Mailing Address:	2629 YORKAVE
Owner Mailing Address2:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Owner Mailing Address3:	Not reported
Owner City,St,Zip:	MINDEN, LA 71055 8312
Owner Country:	UNITED STA
Owner Phone Number:	1-318-4595100
Owner Fax Number:	Not reported
Owner Email Address:	Not reported
Owner Business Type:	Federal Government Ownership
Owner Tax Id:	Not reported
Owner Bankruptcy Code:	Not reported

Operator:

Operator Last Name:	US DEPARTMENT OF THE ARMY
Operator First Name:	Not reported
Operator Name:	US DEPARTMENT OF THE ARMY
Operator Mailing Address:	2629 YORKAVE
Operator Mailing Address 2:	Not reported
Operator Mailing City,St,Zip:	MINDEN, LA 71055 8312
Operator Country:	UNITED STA
Operator Phone:	1-318-4595100
Operator Fax:	Not reported
Operator Email:	Not reported
Operator Business Type:	Federal Government Ownership
Operator Tax Id:	Not reported
Operator Bankruptcy Code:	Not reported

Contact:

Contact Name:	Not reported
Contact Title:	Not reported
Contact Role:	OWNOPRCON
Contact Address:	2629 YORKAVE
Contact Address2:	Not reported
Conact City,St,Zip:	MINDEN, LA 71055 8312
Contact Phone:	1-318-4595100
Contact Fax:	Not reported
Contact Email:	Not reported

Contact:

Contact Name:	ROSE ZEILER
Contact Title:	ENVIRONMENTAL COORDINATOR
Contact Role:	PRICONT
Contact Address:	727 S BROOKLYN RD
Contact Address2:	Not reported
Conact City,St,Zip:	RATCLIFF, AR 72951 9083
Contact Phone:	1-479-6350110
Contact Fax:	1-479-6350112
Contact Email:	Not reported

Unit:

Unit No:	001
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	09
Unit Type:	Not reported
Unit Status:	CLOSURE PENDING
Unit Regulatory Status:	Not reported
UIC Permit Number:	Not reported
Capacity:	Not reported
Capacity Measurment:	Not reported
Off Site Hazardous Waste:	No

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	132
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Not reported
Dt Last Changed:	19940613

Unit:

Unit No:	002
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	01
Unit Type:	Not reported
Unit Status:	CLOSURE PENDING
Unit Regulatory Status:	Not reported
UIC Permit Number:	Not reported
Capacity:	Not reported
Capacity Measurment:	Not reported
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	132
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Partial closure completed; letter sent 6/13/86
Dt Last Changed:	Not reported

Unit:

Unit No:	003
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	05
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Capacity Measurment: Unknown
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: No
System Type Code: Not reported
System Type: Not reported
System Type Code 1: Not reported
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: 04
Unit Description on NOR: East Burning Cage
Dt Last Changed: 19990927

Unit:
Unit No: 004
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 01
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: Not reported
UIC Permit Number: Not reported
Capacity: Not reported
Capacity Measurment: Not reported
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Not reported
Dt Last Changed: 20020701

Unit:
Unit No: 005
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 04
Unit Type: Not reported
Unit Status: ACTIVE
Unit Regulatory Status: 05

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

UIC Permit Number:	Not reported
Capacity:	1
Capacity Measurment:	Unknown
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	Not reported
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Not reported
Dt Last Changed:	Not reported

Unit:

Unit No:	006
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	09
Unit Type:	Not reported
Unit Status:	ACTIVE
Unit Regulatory Status:	05
UIC Permit Number:	Not reported
Capacity:	Not reported
Capacity Measurment:	Not reported
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	132
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Not reported
Dt Last Changed:	Not reported

Unit:

Unit No:	007
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	14
Unit Type:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Status:	CLOSED
Unit Regulatory Status:	01
UIC Permit Number:	Not reported
Capacity:	72500
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	No
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	010
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	02
Unit Description on NOR:	Bldg 49-W
Dt Last Changed:	19991014

Unit:

Unit No:	008
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	14
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	01
UIC Permit Number:	Not reported
Capacity:	88000
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	No
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	01
Unit Description on NOR:	Bldg. 31-W
Dt Last Changed:	19991118

Unit:

Unit No:	009
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Type Code:	14
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	Not reported
UIC Permit Number:	Not reported
Capacity:	Not reported
Capacity Measurment:	Not reported
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Bldg. 701
Dt Last Changed:	20000714

Unit:

Unit No:	010
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	14
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	Not reported
UIC Permit Number:	Not reported
Capacity:	11444
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Bldg. 707-C
Dt Last Changed:	20001127

Unit:

Unit No:	011

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	14
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	01
UIC Permit Number:	Not reported
Capacity:	62500
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	No
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	03
Unit Description on NOR:	Bldg. 811-1
Dt Last Changed:	19991018

Unit:

Unit No:	012
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	17
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	08
UIC Permit Number:	Not reported
Capacity:	Not reported
Capacity Measurment:	Not reported
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	122
System Type 1:	Not reported
System Type Code 2:	100
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Pilot Wastewater Treatmen
Dt Last Changed:	19990927

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit:
- Unit No: 013
- Deed Record Needed: Not reported
- Deed Recording Date: Not reported
- Unit Type Code: 14
- Unit Type: Not reported
- Unit Status: CLOSED
- Unit Regulatory Status: 13
- UIC Permit Number: Not reported
- Capacity: Not reported
- Capacity Measurment: Not reported
- Off Site Hazardous Waste: No
- Off Site Class 1 Waste: Not reported
- Off Site Class 2 Waste: Not reported
- Off Site Class 3 Waste: Not reported
- Off Site Non Indstrl Sld Wst: Not reported
- System Type Code: Not reported
- System Type: Not reported
- System Type Code 1: 141
- System Type 1: Not reported
- System Type Code 2: Not reported
- System Type 2: Not reported
- System Type Code 3: Not reported
- System Type 3: Not reported
- System Type Code 4: Not reported
- System Type 4: Not reported
- Permit Seq #: Not reported
- Unit Description on NOR: Bldg. 41-X
- Dt Last Changed: 20001127

Unit:
- Unit No: 014
- Deed Record Needed: Not reported
- Deed Recording Date: Not reported
- Unit Type Code: 22
- Unit Type: Not reported
- Unit Status: CLOSED
- Unit Regulatory Status: 13
- UIC Permit Number: Not reported
- Capacity: Not reported
- Capacity Measurment: Not reported
- Off Site Hazardous Waste: No
- Off Site Class 1 Waste: Not reported
- Off Site Class 2 Waste: Not reported
- Off Site Class 3 Waste: Not reported
- Off Site Non Indstrl Sld Wst: Not reported
- System Type Code: Not reported
- System Type: Not reported
- System Type Code 1: 141
- System Type 1: Not reported
- System Type Code 2: Not reported
- System Type 2: Not reported
- System Type Code 3: Not reported
- System Type 3: Not reported
- System Type Code 4: Not reported
- System Type 4: Not reported
- Permit Seq #: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Description on NOR: Bldg. 24-X, Storage Pad a
Dt Last Changed: 20001127

Unit:
Unit No: 015
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 14
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: Not reported
UIC Permit Number: Not reported
Capacity: Not reported
Capacity Measurment: Not reported
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: BLDG. 43-X
Dt Last Changed: 20011119

Unit:
Unit No: 016
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 14
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: Not reported
UIC Permit Number: Not reported
Capacity: Not reported
Capacity Measurment: Not reported
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: BLDG. 21-X
Dt Last Changed: 20011119

Unit:
Unit No: 017
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 14
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: Not reported
UIC Permit Number: Not reported
Capacity: Not reported
Capacity Measurment: Not reported
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: PROCESSING AREA (Bldg. 50
Dt Last Changed: 20001127

Unit:
Unit No: 018
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 18
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: Not reported
UIC Permit Number: Not reported
Capacity: Not reported
Capacity Measurment: Not reported
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Bldg. 54-G.
Dt Last Changed: 19970212

Unit:
Unit No: 019
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 18
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: Not reported
UIC Permit Number: Not reported
Capacity: Not reported
Capacity Measurment: Not reported
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: BLDG. 54-H, STAINLESS STEEL
Dt Last Changed: 19970212

Unit:
Unit No: 020
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 05
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 1
Capacity Measurment: Unknown
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: No
System Type Code: Not reported
System Type: Not reported
System Type Code 1: Not reported
System Type 1: Not reported
System Type Code 2: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: 09
Unit Description on NOR: PERSHING ROCKET MOTOR STAND 36-T-1
Dt Last Changed: 19990113

Unit:
Unit No: 021
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 05
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 1
Capacity Measurment: Unknown
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: No
System Type Code: Not reported
System Type: Not reported
System Type Code 1: Not reported
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: 11
Unit Description on NOR: PERSHING ROCKET MOTOR STAND 36-S-1
Dt Last Changed: 19990113

Unit:
Unit No: 022
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 18
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 01
UIC Permit Number: Not reported
Capacity: Not reported
Capacity Measurment: Not reported
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Storage tank (surface); CLOSURE LETTER DATED 2/22/2000.
Dt Last Changed: 20000222

Unit:
Unit No: 023
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 17
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 09
UIC Permit Number: Not reported
Capacity: Not reported
Capacity Measurment: Not reported
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: Not reported
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Silver recovery unit and
Dt Last Changed: 19970109

Unit:
Unit No: 024
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 17
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 09
UIC Permit Number: Not reported
Capacity: 1000
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type:	Not reported
System Type Code 1:	121
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	One thousand gallon tank at 17-T tank farm.
Dt Last Changed:	20001127

Unit:

Unit No:	025
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	16
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	09
UIC Permit Number:	Not reported
Capacity:	100
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	Not reported
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	This unit and associated equipment has been removed for use at another facility.
Dt Last Changed:	20000502

Unit:

Unit No:	026
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	17
Unit Type:	Not reported
Unit Status:	INACTIVE
Unit Regulatory Status:	05
UIC Permit Number:	Not reported
Capacity:	Not reported
Capacity Measurment:	Not reported
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	135
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Federally owned treatment works.
Dt Last Changed:	19991208

Unit:

Unit No:	027
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	22
Unit Type:	Not reported
Unit Status:	ACTIVE
Unit Regulatory Status:	05
UIC Permit Number:	Not reported
Capacity:	Not reported
Capacity Measurment:	Not reported
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Front loading dumpsters.
Dt Last Changed:	19940623

Unit:

Unit No:	028
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	18
Unit Type:	Not reported
Unit Status:	INACTIVE
Unit Regulatory Status:	05
UIC Permit Number:	Not reported
Capacity:	1100
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Aboveground, portable sump. Liquid mover& filter, and storage tank. This unit h
Dt Last Changed:	19991117

Unit:

Unit No:	030
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2030
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-1, No. 001., Ac
Dt Last Changed:	19990113

Unit:

Unit No:	031
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Capacity:	1755
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-3. No. 002., A
Dt Last Changed:	19990113

Unit:

Unit No:	032
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1675
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-3. No. 003., A
Dt Last Changed:	19990113

Unit:

Unit No:	033
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1835
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-3. No. 004., I
Dt Last Changed:	19990113

Unit:

Unit No:	034
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1271
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-3. No. 005., I
Dt Last Changed:	19990113

Unit:

Unit No:	035
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	3623
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-116. No. 006.,
Dt Last Changed:	19990113

Unit:

Unit No:	036
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2904
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-116. No. 007.,
Dt Last Changed:	19990113

Unit:

Unit No:	037
Deed Record Needed:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2922
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-117, No. 008.,
Dt Last Changed:	19990113

Unit:

Unit No:	038
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	3545
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-117, No. 009.,
Dt Last Changed:	19990113

Unit:

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit No:	039
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2990
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-118, No. 010.,
Dt Last Changed:	19990113

Unit:

Unit No:	040
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	3584
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-118., No. 011.,
Dt Last Changed:	19990113

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit:
Unit No: 041
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 3156
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at P-118., No. 012.,
Dt Last Changed: 19990113

Unit:
Unit No: 042
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 2922
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Description on NOR: Sump at P-118., No. 013.,
Dt Last Changed: 19990113

Unit:
Unit No: 043
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 1077
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at B-5., No. 014., I
Dt Last Changed: 19990113

Unit:
Unit No: 044
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 1596
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at B-7., No. 015., A
Dt Last Changed: 19990113

Unit:
Unit No: 045
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 476
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at B-7., No. 016., A
Dt Last Changed: 19990113

Unit:
Unit No: 046
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 718
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at B-9., No. 017, In
Dt Last Changed: 19990113

Unit:
Unit No: 047
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 1077
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at B-9., No. 018., I
Dt Last Changed: 19990113

Unit:
Unit No: 048
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 1476
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at B-10. No.019., Active since 10/15/42., 9.5'L x 5.5'W x 5'D.
Dt Last Changed: 19990113

Unit:
Unit No: 049
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 1750
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at B-11., No. 020.,
Dt Last Changed: 19990113

Unit:
Unit No: 050
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 1456
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at B-12., No. 021.,
Dt Last Changed: 19990113

Unit:
Unit No: 051
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 1683
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at B-13., No. 022.,
Dt Last Changed: 19990113

Unit:
Unit No: 052
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 1596
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at B-14., No. 023.,
Dt Last Changed:	19990113

Unit:

Unit No:	053
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	539
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at B-15., No. 024.,
Dt Last Changed:	19990113

Unit:

Unit No:	054
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1537
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at B-16., No. 025.,
Dt Last Changed:	19990113

Unit:

Unit No:	055
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1586
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at Shed C, No. 026.,
Dt Last Changed:	19990113

Unit:

Unit No:	056
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2364
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-9., No. 027., A
Dt Last Changed:	19990113

Unit:

Unit No:	057
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	374
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-122., No. 028.,
Dt Last Changed:	19990113

Unit:

Unit No:	058
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	3553
Capacity Measurment:	Galons

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-123., No. 029.,
Dt Last Changed:	19990113

Unit:

Unit No:	059
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	535
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 212-12., No. 030.
Dt Last Changed:	19990113

Unit:

Unit No:	060
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Capacity:	556
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 212-12., No. 031.
Dt Last Changed:	19990113

Unit:

Unit No:	061
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	738
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 212-14., No. 032.
Dt Last Changed:	19990113

Unit:

Unit No:	062
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	162
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 212-14., No. 033.
Dt Last Changed:	19990113

Unit:

Unit No:	063
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	516
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 212-16., No. 034.
Dt Last Changed:	19990113

Unit:

Unit No:	064
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	486
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 212-18., No. 035.
Dt Last Changed:	19990113

Unit:

Unit No:	065
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	374
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at P-122., No. 036.,
Dt Last Changed:	19990113

Unit:

Unit No:	066
Deed Record Needed:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	330
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 212-29., No. 037.
Dt Last Changed:	19990113

Unit:

Unit No:	067
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	400
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 212-32., No. 038.
Dt Last Changed:	19990113

Unit:

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit No:	068
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	24
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 212-33., No. 039.
Dt Last Changed:	19990113

Unit:

Unit No:	069
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	559
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 212-33., No. 040.
Dt Last Changed:	19990113

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit:
Unit No: 070
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 270
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 212-35., No. 041.
Dt Last Changed: 19990113

Unit:
Unit No: 071
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 276
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Description on NOR: Sump at 212-37., No. 42.,
Dt Last Changed: 19990113

Unit:
Unit No: 072
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 106
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 212-38., No. 043.
Dt Last Changed: 19990113

Unit:
Unit No: 073
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 2394
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 25-C., No. 44., I
Dt Last Changed: 19990113

Unit:
Unit No: 074
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 3763
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 25-C., No. 45., A
Dt Last Changed: 19990113

Unit:
Unit No: 075
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 200
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 25-C., No. 46., C
Dt Last Changed: 19990113

Unit:
Unit No: 076
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: Not reported
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 25-D., No. 47., A
Dt Last Changed: 19990113

Unit:
Unit No: 077
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 628
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 26-E., No. 48., A
Dt Last Changed:	19990113

Unit:

Unit No:	078
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	280
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 26-E., No. 49., A
Dt Last Changed:	19990113

Unit:

Unit No:	079
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	977
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 26-E., No. 50., A
Dt Last Changed: 19990113

Unit:
Unit No: 080
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 598
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 26-E., No. 51., A
Dt Last Changed: 19990113

Unit:
Unit No: 081
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 524
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 28-G., No. 52., C
Dt Last Changed:	19990113

Unit:

Unit No:	082
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	Not reported
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 29-D., No. 53., A
Dt Last Changed:	19990113

Unit:

Unit No:	083
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	978
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 31-G., No. 55., A
Dt Last Changed:	19990113

Unit:

Unit No:	084
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	875
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 31-G., No. 55., A
Dt Last Changed:	19990113

Unit:

Unit No:	085
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	496
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 32-H., No. 56., I
Dt Last Changed:	19990113

Unit:

Unit No:	086
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	3141
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 33-G., No. 57., C
Dt Last Changed:	19990113

Unit:

Unit No:	087
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	297
Capacity Measurment:	Galons

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 36-B., No. 58., R
Dt Last Changed:	19990113

Unit:

Unit No:	088
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2633
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 41-E., No. 59., C
Dt Last Changed:	19990113

Unit:

Unit No:	089
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Capacity:	3110
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 42-E., No. 60., C
Dt Last Changed:	19990113

Unit:

Unit No:	090
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	5224
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 42-H., No. 61., A
Dt Last Changed:	19990113

Unit:

Unit No:	091
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	943
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 45-E., No. 62., C
Dt Last Changed:	19990113

Unit:

Unit No:	092
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	943
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 45-E., No. 63., C
Dt Last Changed:	19990113

Unit:

Unit No:	093
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1346
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 45-E., No. 64., C
Dt Last Changed:	19990113

Unit:

Unit No:	094
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1481
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 45-E., No. 65., A
Dt Last Changed:	19990113

Unit:

Unit No:	095
Deed Record Needed:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1481
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 45-E., No. 66., C
Dt Last Changed:	19990113

Unit:

Unit No:	096
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	943
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 45-E., No. 67., C
Dt Last Changed:	19990113

Unit:

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit No:	097
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1941
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 46-A., No. 68., I
Dt Last Changed:	19990113

Unit:

Unit No:	098
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1372
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 46-B., No. 69., I
Dt Last Changed:	19990113

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit:

Unit No:	099
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	6134
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 50-G., No. 70., A
Dt Last Changed:	19990113

Unit:

Unit No:	100
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2020
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Description on NOR: Sump at 54-F., No. 71., A
Dt Last Changed: 19990113

Unit:
Unit No: 101
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 2169
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 54-F., No. 72., A
Dt Last Changed: 19990113

Unit:
Unit No: 102
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 898
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 54-G., No. 73., C
Dt Last Changed: 19990113

Unit:
Unit No: 103
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 898
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 54-G., No. 74., A
Dt Last Changed: 19990113

Unit:
Unit No: 104
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 1346
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 54-G., No. 75., A
Dt Last Changed: 19990113

Unit:
Unit No: 105
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 2268
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 54-H., No. 75., A
Dt Last Changed: 19990113

Unit:
Unit No: 106
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 2222
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 54-H. No. 77., A
Dt Last Changed: 19990113

Unit:
Unit No: 107
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 359
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 68-C, No. 78., Ac
Dt Last Changed: 19990113

Unit:
Unit No: 108
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 386
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 68-C. No. 79., A
Dt Last Changed: 19990113

Unit:
Unit No: 109
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 200
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 68-C. No. 80., C
Dt Last Changed: 19990113

Unit:
Unit No: 110
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 13713
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 68-F., No. 81., A
Dt Last Changed:	19990113

Unit:

Unit No:	111
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	3839
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 68-F., No. 82., A
Dt Last Changed:	19990113

Unit:

Unit No:	112
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	5470
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 68-F., No. 83., A
Dt Last Changed:	19990113

Unit:

Unit No:	113
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	200
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 68-G., No. 84., C
Dt Last Changed:	19990113

Unit:

Unit No:	114
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1048
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 68-G., No. 85., C
Dt Last Changed:	19990113

Unit:

Unit No:	115
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	11310
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Wsump at 68-G., No. 85.,
Dt Last Changed:	19990113

Unit:

Unit No:	116
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	441
Capacity Measurment:	Galons

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 68-G., No. 87., C
Dt Last Changed:	19990113

Unit:

Unit No:	117
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2513
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 68-G., No. 88., C
Dt Last Changed:	19990113

Unit:

Unit No:	118
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Capacity:	2513
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 68-G., No. 89.,
Dt Last Changed:	19990113

Unit:

Unit No:	119
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	5685
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 68-G., No. 90.,
Dt Last Changed:	19990113

Unit:

Unit No:	120
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2066
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 75-I., No. 91., I
Dt Last Changed:	19990113

Unit:

Unit No:	121
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2893
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 75-I., No. 92., I
Dt Last Changed:	19990113

Unit:

Unit No:	122
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2464
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 75-I., No. 93., I
Dt Last Changed:	19990113

Unit:

Unit No:	123
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	355
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 16-Y., No. 94., C
Dt Last Changed:	19990113

Unit:

Unit No:	124
Deed Record Needed:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2006
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 34-Y., No. 95., A
Dt Last Changed:	19990113

Unit:

Unit No:	125
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	212
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 34-Y., No. 96., C
Dt Last Changed:	19990113

Unit:

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit No:	126
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	624
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 38-Y., No. 97., A
Dt Last Changed:	19990113

Unit:

Unit No:	127
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	405
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 38-Y., No. 98., C
Dt Last Changed:	19990113

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit:
- Unit No: 128
- Deed Record Needed: Not reported
- Deed Recording Date: Not reported
- Unit Type Code: 02
- Unit Type: Not reported
- Unit Status: CLOSED
- Unit Regulatory Status: 02
- UIC Permit Number: Not reported
- Capacity: 159
- Capacity Measurment: Galons
- Off Site Hazardous Waste: No
- Off Site Class 1 Waste: Not reported
- Off Site Class 2 Waste: Not reported
- Off Site Class 3 Waste: Not reported
- Off Site Non Indstrl Sld Wst: Not reported
- System Type Code: Not reported
- System Type: Not reported
- System Type Code 1: 141
- System Type 1: Not reported
- System Type Code 2: Not reported
- System Type 2: Not reported
- System Type Code 3: Not reported
- System Type 3: Not reported
- System Type Code 4: Not reported
- System Type 4: Not reported
- Permit Seq #: Not reported
- Unit Description on NOR: Sump at 38-Y., No. 99., A
- Dt Last Changed: 19990113

Unit:
- Unit No: 129
- Deed Record Needed: Not reported
- Deed Recording Date: Not reported
- Unit Type Code: 02
- Unit Type: Not reported
- Unit Status: CLOSED
- Unit Regulatory Status: 02
- UIC Permit Number: Not reported
- Capacity: 265
- Capacity Measurment: Galons
- Off Site Hazardous Waste: No
- Off Site Class 1 Waste: Not reported
- Off Site Class 2 Waste: Not reported
- Off Site Class 3 Waste: Not reported
- Off Site Non Indstrl Sld Wst: Not reported
- System Type Code: Not reported
- System Type: Not reported
- System Type Code 1: 141
- System Type 1: Not reported
- System Type Code 2: Not reported
- System Type 2: Not reported
- System Type Code 3: Not reported
- System Type 3: Not reported
- System Type Code 4: Not reported
- System Type 4: Not reported
- Permit Seq #: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Description on NOR: Sump at 45-Y., No. 100.,
Dt Last Changed: 19990113

Unit:
Unit No: 130
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 661
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 45-Y., No. 101.,
Dt Last Changed: 19990113

Unit:
Unit No: 131
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 1833
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 16-T., No. 102.,
Dt Last Changed: 19990113

Unit:
Unit No: 132
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 2394
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 16-T., No. 103.,
Dt Last Changed: 19990113

Unit:
Unit No: 133
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 3351
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 16-T., No. 104.,
Dt Last Changed: 19990113

Unit:
Unit No: 134
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 2199
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 16-T., No. 105.,
Dt Last Changed: 19990113

Unit:
Unit No: 135
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 265
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 401., No. 106., A
Dt Last Changed: 19990113

Unit:
Unit No: 136
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 297
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 403., No. 107., C
Dt Last Changed: 19990113

Unit:
Unit No: 137
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 393
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 406., No. 108., C
Dt Last Changed: 19990113

Unit:
Unit No: 138
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 617
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Sump at 408., No. 109., C
Dt Last Changed: 19990113

Unit:
Unit No: 139
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 02
Unit Type: Not reported
Unit Status: CLOSED
Unit Regulatory Status: 02
UIC Permit Number: Not reported
Capacity: 748
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 207., No. 110., C
Dt Last Changed:	19990113

Unit:

Unit No:	140
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	55
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 722-P., No. 111.,
Dt Last Changed:	19990113

Unit:

Unit No:	141
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	233
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 722-P., No. 112.,
Dt Last Changed:	19990113

Unit:

Unit No:	142
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	276
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 744., No. 113., I
Dt Last Changed:	19990113

Unit:

Unit No:	143
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	5554
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 25X., No. 114., A
Dt Last Changed:	19990113

Unit:

Unit No:	144
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	9273
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 33-X., No. 115.,
Dt Last Changed:	19990113

Unit:

Unit No:	145
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	8954
Capacity Measurment:	Galons

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 37-X., No. 116.,
Dt Last Changed:	19990113

Unit:

Unit No:	146
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1000
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 744-A., No. 117.,
Dt Last Changed:	19990113

Unit:

Unit No:	147
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Capacity:	1283
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 813., No. 118., A
Dt Last Changed:	19990113

Unit:

Unit No:	148
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2600
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 725., No. 119., F
Dt Last Changed:	19990113

Unit:

Unit No:	149
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2600
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 725., No. 120., F
Dt Last Changed:	19990113

Unit:

Unit No:	150
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	2407
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 32-H., No. 121.,
Dt Last Changed:	19990113

Unit:

Unit No:	151
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1615
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 401-C., No. 122.,
Dt Last Changed:	19990113

Unit:

Unit No:	152
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	743
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	Sump at 18-Y., No. 123.,
Dt Last Changed:	19990113

Unit:

Unit No:	153
Deed Record Needed:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Deed Recording Date:	Not reported
Unit Type Code:	02
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	7000
Capacity Measurment:	Galons
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	Not reported
Unit Description on NOR:	sump at 23-T., No. 800.,
Dt Last Changed:	19990113

Unit:

Unit No:	155
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	05
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1
Capacity Measurment:	Unknown
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	No
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	Not reported
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	05
Unit Description on NOR:	Center Burning Cage.Ope
Dt Last Changed:	19990927

Unit:

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit No:	156
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	05
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1
Capacity Measurment:	Unknown
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	No
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	Not reported
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	06
Unit Description on NOR:	West Burning Cage.Open
Dt Last Changed:	19990927

Unit:

Unit No:	157
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	05
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1
Capacity Measurment:	Unknown
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	No
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	Not reported
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	07
Unit Description on NOR:	North Burning Pan.Open
Dt Last Changed:	19990927

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit:
- Unit No: 158
- Deed Record Needed: Not reported
- Deed Recording Date: Not reported
- Unit Type Code: 05
- Unit Type: Not reported
- Unit Status: CLOSED
- Unit Regulatory Status: 02
- UIC Permit Number: Not reported
- Capacity: 1
- Capacity Measurment: Unknown
- Off Site Hazardous Waste: No
- Off Site Class 1 Waste: Not reported
- Off Site Class 2 Waste: Not reported
- Off Site Class 3 Waste: Not reported
- Off Site Non Indstrl Sld Wst: No
- System Type Code: Not reported
- System Type: Not reported
- System Type Code 1: Not reported
- System Type 1: Not reported
- System Type Code 2: Not reported
- System Type 2: Not reported
- System Type Code 3: Not reported
- System Type 3: Not reported
- System Type Code 4: Not reported
- System Type 4: Not reported
- Permit Seq #: 08
- Unit Description on NOR: South Burning Pan.Open
- Dt Last Changed: 19990927

Unit:
- Unit No: 159
- Deed Record Needed: Not reported
- Deed Recording Date: Not reported
- Unit Type Code: 05
- Unit Type: Not reported
- Unit Status: CLOSED
- Unit Regulatory Status: 02
- UIC Permit Number: Not reported
- Capacity: 1
- Capacity Measurment: Unknown
- Off Site Hazardous Waste: No
- Off Site Class 1 Waste: Not reported
- Off Site Class 2 Waste: Not reported
- Off Site Class 3 Waste: Not reported
- Off Site Non Indstrl Sld Wst: No
- System Type Code: Not reported
- System Type: Not reported
- System Type Code 1: Not reported
- System Type 1: Not reported
- System Type Code 2: Not reported
- System Type 2: Not reported
- System Type Code 3: Not reported
- System Type 3: Not reported
- System Type Code 4: Not reported
- System Type 4: Not reported
- Permit Seq #: 10

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Unit Description on NOR:	Pershing Rocket Motor Sta
Dt Last Changed:	19990113

Unit:

Unit No:	160
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	05
Unit Type:	Not reported
Unit Status:	CLOSED
Unit Regulatory Status:	02
UIC Permit Number:	Not reported
Capacity:	1
Capacity Measurment:	Unknown
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	No
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	Not reported
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported
System Type 4:	Not reported
Permit Seq #:	12
Unit Description on NOR:	Pershing Rocket Motor Sta
Dt Last Changed:	19990113

Unit:

Unit No:	161
Deed Record Needed:	Not reported
Deed Recording Date:	Not reported
Unit Type Code:	22
Unit Type:	Not reported
Unit Status:	ACTIVE
Unit Regulatory Status:	03
UIC Permit Number:	Not reported
Capacity:	Not reported
Capacity Measurment:	Not reported
Off Site Hazardous Waste:	No
Off Site Class 1 Waste:	Not reported
Off Site Class 2 Waste:	Not reported
Off Site Class 3 Waste:	Not reported
Off Site Non Indstrl Sld Wst:	Not reported
System Type Code:	Not reported
System Type:	Not reported
System Type Code 1:	141
System Type 1:	Not reported
System Type Code 2:	Not reported
System Type 2:	Not reported
System Type Code 3:	Not reported
System Type 3:	Not reported
System Type Code 4:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: Storage of Filtercake in 20CY rolloff prior to shipment. Filtercake is dry an
Dt Last Changed: 20000714

Unit:
Unit No: 162
Deed Record Needed: Not reported
Deed Recording Date: Not reported
Unit Type Code: 13
Unit Type: Not reported
Unit Status: ACTIVE
Unit Regulatory Status: 08
UIC Permit Number: Not reported
Capacity: 40000
Capacity Measurment: Galons
Off Site Hazardous Waste: No
Off Site Class 1 Waste: Not reported
Off Site Class 2 Waste: Not reported
Off Site Class 3 Waste: Not reported
Off Site Non Indstrl Sld Wst: Not reported
System Type Code: Not reported
System Type: Not reported
System Type Code 1: 141
System Type 1: Not reported
System Type Code 2: Not reported
System Type 2: Not reported
System Type Code 3: Not reported
System Type 3: Not reported
System Type Code 4: Not reported
System Type 4: Not reported
Permit Seq #: Not reported
Unit Description on NOR: 2 X 20,000 G TANK
Dt Last Changed: 20160829

One Time Shipper Records Not Found for this RegNo/Year:
Receiver Type: Not reported
Transporter for hire: 0
Transport own waste: 0
Eq 01, if transport waste type = 1: Not reported
Eq 02, if transport waste type = 2: Not reported
Eq 03, if transport waste type = 3: Not reported
Eq 04, if transport waste type = H: Not reported
Target TCEQ unique facid for discarded(merged) facility: EXPIRED

Waste:
Waste ID: 99350
Waste Description: Laminac waste. Out-of-specification or excess chemical. Used as binder inpyrot
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0057212H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Laminac
Primary NAICS Code: 928110
EPA Waste Form Code: W210
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 98667
Waste Description: Ash residue from incineration of nonhazardous waste. Wastes incinerated include
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00563032
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: Yes
Company Waste ID: Air curtain destructor ash
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 95294
Waste Description: Brine Solution. Backwash from blowout of boilers at power house. Date of initia
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00321991
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Brine, powerhouse
Primary NAICS Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95293
Waste Description: Soil, petroleum contaminated. Initial generation - 1993. Waste inactivateddue t
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00313011
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Contaminated Soil
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95292
Waste Description: Pentolite Booster Pellets. Initial generation Pre 1993
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0023315H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Pentolite Booster
Primary NAICS Code: 325920
EPA Waste Form Code: W319
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95291
Waste Description: Potassium Perchlorate. Initial Generation Pre 1993. Waste inactivated dueto sou
Desc of Waste: Not reported
Texas Waste Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code 2: 0022316H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Potassium
Primary NAICS Code: 325920
EPA Waste Form Code: W316
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95289
Waste Description: Potassium Chlorate. This material was generated prior to 1993. Waste inactivate
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0021316H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Potassium Chlorate
Primary NAICS Code: 325920
EPA Waste Form Code: W316
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95288
Waste Description: Barium Chromate. Initial generation Pre 1993. Waste inactivated due to source r
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0020316H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Barium Chromate
Primary NAICS Code: 325920
EPA Waste Form Code: W316
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95287
Waste Description: Zirconium Hydride. Initial generation Pre 1993. Waste inactivated due to source
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0019316H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Zisconium Hydride
Primary NAICS Code: 325920
EPA Waste Form Code: W316
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95286
Waste Description: PCB Transformers. Initial generation Pre 1993. Waste inactivated due to source
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00164971
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: PCB Transformers
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95285
Waste Description: PF Degreaser, Spent,. Initially generated 1993.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00152031
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: PF degreaser.
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95284
Waste Description: Barium/Chromium Solids. Initial generation Pre 1993. Waste inactivated dueto so
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0013519H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Barium/Chromium
Primary NAICS Code: 325920
EPA Waste Form Code: W519
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95283
Waste Description: Aqueous Acedic Solution. Initial generation 7-29-93. Waste inactivated dueto so
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00121011

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Waste Code Status:	INACTIVE
Waste Form:	Not reported
Waste Classification:	1
Waste is Radioactive:	No
Waste Treated Off Site:	1
Standard Industrial Classification:	Not reported
Primary Source:	Not reported
Primary Measurenent Point:	Not reported
Primary Origin:	Not reported
Primary System Type:	Not reported
New Chemical Substance:	0
Audit Performed:	No
Company Waste ID:	Acetic Cleaning
Primary NAICS Code:	Not reported
EPA Waste Form Code:	Not reported
Reason Waste Form No Longer Gen.:	UNKNOWN
EPA Haz Waste:	Not reported

Waste:

Waste ID:	95282
Waste Description:	Resin Roofing Material. Initial generation Pre 1993.
Desc of Waste:	Not reported
Texas Waste Code:	Not reported
Texas Waste Code 2:	0011212H
Waste Code Status:	INACTIVE
Waste Form:	Not reported
Waste Classification:	H
Waste is Radioactive:	No
Waste Treated Off Site:	1
Standard Industrial Classification:	Not reported
Primary Source:	Not reported
Primary Measurenent Point:	Not reported
Primary Origin:	Not reported
Primary System Type:	Not reported
New Chemical Substance:	0
Audit Performed:	No
Company Waste ID:	Resin Component
Primary NAICS Code:	325920
EPA Waste Form Code:	W210
Reason Waste Form No Longer Gen.:	UNKNOWN
EPA Haz Waste:	Not reported

Waste:

Waste ID:	95280
Waste Description:	Roofing Material. Initial generation Pre 1993.
Desc of Waste:	Not reported
Texas Waste Code:	Not reported
Texas Waste Code 2:	0010212H
Waste Code Status:	INACTIVE
Waste Form:	Not reported
Waste Classification:	H
Waste is Radioactive:	No
Waste Treated Off Site:	1
Standard Industrial Classification:	Not reported
Primary Source:	Not reported
Primary Measurenent Point:	Not reported
Primary Origin:	Not reported
Primary System Type:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

New Chemical Substance: 0
Audit Performed: No
Company Waste ID: A, Isocyanate
Primary NAICS Code: 325920
EPA Waste Form Code: W210
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95279
Waste Description: Water, Halogen contaminated. Initial generation Pre 1993. Waste inactivated due
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0009219H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Water, Halogen
Primary NAICS Code: 325920
EPA Waste Form Code: W219
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95278
Waste Description: Gasoline, Diesel, and water mix. From the removal of underground storage tanks
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0007219H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Gasoline/Diesel
Primary NAICS Code: 928110
EPA Waste Form Code: W219
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Waste:
- Waste ID: 95276
- Waste Description: Acetone/Copolymer solution that is off-specification. Date of Initial Generation
- Desc of Waste: Not reported
- Texas Waste Code: Not reported
- Texas Waste Code 2: 0006219H
- Waste Code Status: INACTIVE
- Waste Form: Not reported
- Waste Classification: H
- Waste is Radioactive: No
- Waste Treated Off Site: 1
- Standard Industrial Classification: Not reported
- Primary Source: Not reported
- Primary Measurenent Point: Not reported
- Primary Origin: Not reported
- Primary System Type: Not reported
- New Chemical Substance: 0
- Audit Performed: No
- Company Waste ID: Acetone/Copolymer
- Primary NAICS Code: 325920
- EPA Waste Form Code: W219
- Reason Waste Form No Longer Gen.: UNKNOWN
- EPA Haz Waste: Not reported

Waste:
- Waste ID: 95275
- Waste Description: Caustic Chemical used as an anti-floculant at a wastewater treatment plant.Waste
- Desc of Waste: Not reported
- Texas Waste Code: Not reported
- Texas Waste Code 2: 0005110H
- Waste Code Status: INACTIVE
- Waste Form: Not reported
- Waste Classification: H
- Waste is Radioactive: No
- Waste Treated Off Site: 1
- Standard Industrial Classification: Not reported
- Primary Source: Not reported
- Primary Measurenent Point: Not reported
- Primary Origin: Not reported
- Primary System Type: Not reported
- New Chemical Substance: 0
- Audit Performed: No
- Company Waste ID: Caustic Chemical
- Primary NAICS Code: 325920
- EPA Waste Form Code: W110
- Reason Waste Form No Longer Gen.: UNKNOWN
- EPA Haz Waste: Not reported

Waste:
- Waste ID: 95274
- Waste Description: Desilvered fixer effluent. Initial generation - Pre 1993.
- Desc of Waste: Not reported
- Texas Waste Code: Not reported
- Texas Waste Code 2: 00031981
- Waste Code Status: INACTIVE
- Waste Form: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Treated fixer
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95273
Waste Description: Fixer Replenisher. Initial Generation - Pre 1993.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0002103H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Fixer
Primary NAICS Code: 325920
EPA Waste Form Code: W103
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95270
Waste Description: Richcoat Base 22B. Initial generation - Pre 1993.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0001212H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Company Waste ID: Richcoat Base 22B
Primary NAICS Code: 325920
EPA Waste Form Code: W210
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95269
Waste Description: Antifreeze, Used. Initial generation Pre 1993. Waste inactivated due to source
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00262961
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Antifreeze, spent
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95268
Waste Description: Desilvered developer solution from X-ray film processing. Date of Initial Genera
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00041981
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Treated Developer
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95267
Waste Description: Epon Resin 828. Initial generation pre 1993. Waste inactivated due to

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) | **S105168070**

source re
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00142101
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Epon Resin 828
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95266
Waste Description: PCB Contaminated transformers. Initial generation pre 1993. Waste inactivated d
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00174961
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: PCB Contaminated
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95265
Waste Description: Strontium Nitrate. Initial generation Pre 1993. Waste inactivated due to source
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0018316H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Strontium Nitrate
Primary NAICS Code: 325920
EPA Waste Form Code: W316
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95262
Waste Description: Ethyl Alcohol. Initial generation Pre 1993. Waste inactivated due to source red
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0008203H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Ethyl Alcohol
Primary NAICS Code: 325920
EPA Waste Form Code: W203
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95260
Waste Description: Developer, Silver containing. Initial generation Pre 1993.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0025106H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Developer Solution

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary NAICS Code: 325920
EPA Waste Form Code: W110
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95259
Waste Description: Sludge, K044. Initial generation Pre 1993. Waste inactivated due to product cha
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0029509H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: K044
Primary NAICS Code: 325920
EPA Waste Form Code: W519
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95257
Waste Description: Detonating Cord. Initial generation Pre 1993.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0024315H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Detonating Cord.
Primary NAICS Code: 325920
EPA Waste Form Code: W319
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 95254
Waste Description: Naptha, Parts cleaner. Initial generation Pre 1992. Waste inactivated dueto sou
Desc of Waste: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code: Not reported
Texas Waste Code 2: 0027211H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Petroleum Naptha
Primary NAICS Code: 325920
EPA Waste Form Code: W211
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 93382
Waste Description: Triethylene Glycol dinitrate. Waste from process equipment & off-spec. material.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0098219H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: TEGDN
Primary NAICS Code: 332993
EPA Waste Form Code: W219
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 93381
Waste Description: Cellulose Acetate Butyrate. Plasticizer for pyrotechnics & explosives. Out-of-s
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00964032
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: CAB
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 93380
Waste Description: PCB Oil from PCB waste transformers emptied before shipment. Generated: 1994 W
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00942981
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: PCB Transformer Oil
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 93379
Waste Description: Transformer Oil from waste transformers. PCB Contaminated. Oil pumped outof le
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00932971
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: PCB Contaminated oil
Primary NAICS Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 93378
Waste Description: Mixed Organic halogenated/non-halogenated solvents. Generated from old chemical
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0090204H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: mixed solvents
Primary NAICS Code: 332993
EPA Waste Form Code: W204
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 93377
Waste Description: Asbestos, friable. Debris from pipe-insulation removal, or other insulation.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00883111
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: asbestos, friable
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 93376
Waste Description: Magnesium oxide Ash/Dust. Baghouse ash from the test tunnel where flares are te
Desc of Waste: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code: Not reported
Texas Waste Code 2: 00893042
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Baghouse Dust
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 93375
Waste Description: Diethylene Glycol Dinitrate. Excess from cleanup and out of specificationmateri
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0097219H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: DEGDN
Primary NAICS Code: 332993
EPA Waste Form Code: W219
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 93374
Waste Description: Nonhalogenated solvents from chemical laboratory. Used in cleaning and chemical
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0091203H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: non-halogenated solv
Primary NAICS Code: 332993
EPA Waste Form Code: W203
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 93373
Waste Description: Vinyl Acetate Alcohol Resin. Binder in pyrotechnic mixtures. Excess or out of
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0095219H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: VAAR
Primary NAICS Code: 332993
EPA Waste Form Code: W219
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 93372
Waste Description: Halogenated Solvents from chemical laboratory. Chemicals are from lab analysis
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0092202H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: halogenated solvent
Primary NAICS Code: 332993

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

EPA Waste Form Code: W202
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 92683
Waste Description: Isopropyl Alcohol. Date of initial generation - Pre 1994. Waste inactivated du
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0045203H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Alcoho, 26E
Primary NAICS Code: 928110
EPA Waste Form Code: W203
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 92679
Waste Description: Trichloroethane 1,1,1 for 26E Cleaning processes. Date of Initial Generation: P
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0044202H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: 26E Tricho
Primary NAICS Code: 928110
EPA Waste Form Code: W202
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 92676
Waste Description: Filters oil. Initial Generation - Pre 1994. Waste inactivated due to source red
Desc of Waste: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code: Not reported
Texas Waste Code 2: 00433101
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Used filters, oil.
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 92644
Waste Description: Oil waste from motor oil changes in transportation vehicles. Date of initial ge
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00422061
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: Yes
Company Waste ID: Oil waste, liquid.
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 92643
Waste Description: Antifreeze. Date of initial generation - Pre 1994. Waste inactivated dueto sou
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00412961
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Antifreeze
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 92642
Waste Description: Batteries. Date of initial generation - Pre 1994. Waste inactivated due tosourc
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0040309H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Batteries
Primary NAICS Code: 928110
EPA Waste Form Code: W309
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 92641
Waste Description: Aerosol containers. Date of initial generation - Pre 1994. Waste inactivated d
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00393081
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Aerosol containers..
Primary NAICS Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 92640
Waste Description: Drums that have been emptied from use in manufacturing or from consolidating sim
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00383082
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Empty Drums.
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 90510
Waste Description: Methylene Chloride. Used in the manufacture of high explosives. Also usedto di
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0051202H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Methylene Chloride
Primary NAICS Code: 928110
EPA Waste Form Code: W202
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 90508
Waste Description: Toluene. Waste from manufacture of high explosives. Date of initial generation
Desc of Waste: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code: Not reported
Texas Waste Code 2: 0050203H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Toluene
Primary NAICS Code: 928110
EPA Waste Form Code: W203
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 90507
Waste Description: Chloroform. Used as an agent in the synthesis of energetics. Date of initial g
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0052202H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Chloroform
Primary NAICS Code: 928110
EPA Waste Form Code: W202
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 90506
Waste Description: Acetonitrile. Material used in the manufacture of energetics.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0053203H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Acetonitrile
Primary NAICS Code: 928110
EPA Waste Form Code: W203
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 90505
Waste Description: Chloroform/Ethyl Acetate mixture. Used in the production of energetic materials
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0055204H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Chloraform / Ethyl Acetate
Primary NAICS Code: 928110
EPA Waste Form Code: W204
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 90504
Waste Description: Methyl-tert-butyl ether. Used as a solvent in the manufacture of energetics.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0054203H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: M.T.B.E.
Primary NAICS Code: 928110
EPA Waste Form Code: W203

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 90503
Waste Description: Nitric/Sulfuric Acid mixture. Generated from synthesizing explosives.
Date of
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0047104H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: CL20 Acid Waste
Primary NAICS Code: 928110
EPA Waste Form Code: W103
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 90502
Waste Description: Neutralized Acid waste. Waste generated during the manufacture of energetics.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00491131
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Neutralized acid
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 389444
Waste Description: WASTEWATER FROM A ONE-TIME EVENT DUE TO EQUIPMENT FAILURE.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01441011

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 384456
Waste Description: Belt press sludge from the treatment of contaminated groundwater.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01433912
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: Yes
Company Waste ID: WWTP SLUDGE CAKE
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 382897
Waste Description: Waste sand from sand filter at the groundwater treatment plant, after alkaline p
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01423192
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: SAND FROM SAND FILTE
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 366506
Waste Description: Construction debris from small fiberglass structure historically used for chlori
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01413902
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: 67 VAULT CL STORAG
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 359738
Waste Description: Soil cuttings from monitoring well and soil boring installation
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01403011
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: SOIL CUTTINGS FROM M
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Waste:
- Waste ID: 359737
- Waste Description: Soil cuttings from monitoring well and soil boring installation. Inorganic cont
- Desc of Waste: Not reported
- Texas Waste Code: Not reported
- Texas Waste Code 2: 01393021
- Waste Code Status: ACTIVE
- Waste Form: Not reported
- Waste Classification: 1
- Waste is Radioactive: No
- Waste Treated Off Site: 1
- Standard Industrial Classification: Not reported
- Primary Source: Not reported
- Primary Measurenent Point: Not reported
- Primary Origin: Not reported
- Primary System Type: Not reported
- New Chemical Substance: 0
- Audit Performed: No
- Company Waste ID: SOIL CUTTINGS FROM M
- Primary NAICS Code: Not reported
- EPA Waste Form Code: Not reported
- Reason Waste Form No Longer Gen.: Not reported
- EPA Haz Waste: Not reported

Waste:
- Waste ID: 359116
- Waste Description: Soil cuttings from monitoring well drilling. Organic contaminants found in soil.
- Desc of Waste: Not reported
- Texas Waste Code: Not reported
- Texas Waste Code 2: 01383012
- Waste Code Status: ACTIVE
- Waste Form: Not reported
- Waste Classification: 2
- Waste is Radioactive: No
- Waste Treated Off Site: 1
- Standard Industrial Classification: Not reported
- Primary Source: Not reported
- Primary Measurenent Point: Not reported
- Primary Origin: Not reported
- Primary System Type: Not reported
- New Chemical Substance: 0
- Audit Performed: No
- Company Waste ID: DRILL CUTTINGS ORG
- Primary NAICS Code: Not reported
- EPA Waste Form Code: Not reported
- Reason Waste Form No Longer Gen.: Not reported
- EPA Haz Waste: Not reported

Waste:
- Waste ID: 309442
- Waste Description: Not reported
- Desc of Waste: Not reported
- Texas Waste Code: Not reported
- Texas Waste Code 2: DYTH4032
- Waste Code Status: Not reported
- Waste Form: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 308912
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: F3DJ3022
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 308911
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: F3DH3022
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) | **S105168070**

Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 307824
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: F2WF2191
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 307823
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: F2WD2191
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 307632
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) | **S105168070**

Texas Waste Code 2: DY9T102H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 307610
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DY933022
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 307609
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DY923022
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) | **S105168070**

Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 307608
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DY8Z3022
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 307158
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: F4MQ3022
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 304602

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTM72051
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 304601
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTM6209H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 304600
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTM52051
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) | **S105168070**

Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 304599
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTM41191
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 304598
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTM3110H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported

MAP FINDINGS

Map ID
Direction
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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) | **S105168070**

EPA Haz Waste: Not reported

Waste:
Waste ID: 304044
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DX8Z101H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 303724
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTDC102H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 303723
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTDB319H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H

MAP FINDINGS

Map ID
Direction
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) | **S105168070**

Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 303722
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTD9110H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 303721
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTD8105H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported

MAP FINDINGS

Map ID
Direction
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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) | **S105168070**

Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 303720
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTD73191
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 303719
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTD63191
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 303718
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTD5104H

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) | **S105168070**

Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 303717
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTD4105H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 303716
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTD31141
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported

MAP FINDINGS

Map ID
Direction
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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 303715
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTD2105H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 303714
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTCZ105H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 303713
Waste Description: Not reported

MAP FINDINGS

Map ID
Direction
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Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DTCY105H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 303268
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DZN4203H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 302369
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DZDP203H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) | **S105168070**

Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 294534
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: D8NF201H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 290467
Waste Description: Not reported
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: DFG2103H
Waste Code Status: Not reported
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) | **S105168070**

Waste:
- Waste ID: 280964
- Waste Description: Not reported
- Desc of Waste: Not reported
- Texas Waste Code: Not reported
- Texas Waste Code 2: CWCM113H
- Waste Code Status: Not reported
- Waste Form: Not reported
- Waste Classification: H
- Waste is Radioactive: No
- Waste Treated Off Site: Not reported
- Standard Industrial Classification: Not reported
- Primary Source: Not reported
- Primary Measurenent Point: Not reported
- Primary Origin: Not reported
- Primary System Type: Not reported
- New Chemical Substance: 0
- Audit Performed: No
- Company Waste ID: Not reported
- Primary NAICS Code: Not reported
- EPA Waste Form Code: Not reported
- Reason Waste Form No Longer Gen.: Not reported
- EPA Haz Waste: Not reported

Waste:
- Waste ID: 280963
- Waste Description: Not reported
- Desc of Waste: Not reported
- Texas Waste Code: Not reported
- Texas Waste Code 2: CWCL209H
- Waste Code Status: Not reported
- Waste Form: Not reported
- Waste Classification: H
- Waste is Radioactive: No
- Waste Treated Off Site: Not reported
- Standard Industrial Classification: Not reported
- Primary Source: Not reported
- Primary Measurenent Point: Not reported
- Primary Origin: Not reported
- Primary System Type: Not reported
- New Chemical Substance: 0
- Audit Performed: No
- Company Waste ID: Not reported
- Primary NAICS Code: Not reported
- EPA Waste Form Code: Not reported
- Reason Waste Form No Longer Gen.: Not reported
- EPA Haz Waste: Not reported

Waste:
- Waste ID: 236827
- Waste Description: Soil removed as part of removal action or remedial action
- Desc of Waste: Not reported
- Texas Waste Code: Not reported
- Texas Waste Code 2: 0137319H
- Waste Code Status: ACTIVE
- Waste Form: Not reported
- Waste Classification: H
- Waste is Radioactive: No

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: EXCAVATED SOIL-HAZ
Primary NAICS Code: 928110
EPA Waste Form Code: W319
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 229583
Waste Description: Soils removed as part of response action or closure
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01363022
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: LHAAP NON HAZ SOIL
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 208064
Waste Description: Drill Cuttings from monitoring wells. May contain F-listed constituents.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0135301H
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: DRILL CUTTINGS

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary NAICS Code: 928110
EPA Waste Form Code: W301
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 206232
Waste Description: Waste sand from sand filter at groundwater treatment plant. After alkaline prec
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01343191
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: FILTER SAND
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 203765
Waste Description: Soil cuttings from monitoring well drilling. No contaminants found in soil.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01333022
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: NON-HAZ SOIL CUTTING
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 202381
Waste Description: Carbon stored in 55-gallon drums that is not acceptable for onsite use process.R

MAP FINDINGS

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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01324092
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: CARBON
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 200045
Waste Description: Sediment from the south building at Site 32. Sediment was cleaned out of the bui
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01313022
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Site 32 Sediment
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 197731
Waste Description: Decommissioning and disposal of asphalt tanks. Contents hardened and cured.; Due
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01304091
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1

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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Asphalt Tank Waste
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 192247
Waste Description: Fluculant for water treatment. Alkylamine-epichlorohydrin polymer. CAS 42751-79-
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01290091
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: HP-3439
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 187316
Waste Description: Percol 712 Polymer used in water treatment to generate "floc" in settling out so
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01281132
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Percol 712 Polymer

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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 177838
Waste Description: Belt press sludge from the treatment of contaminated groundwater at Longhorn AAP
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0127301H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Belt Press Sludge
Primary NAICS Code: 928110
EPA Waste Form Code: W301
Reason Waste Form No Longer Gen.: ERROR
EPA Haz Waste: Not reported

Waste:
Waste ID: 177837
Waste Description: Spent carbon for Groundwater Treatment Plant
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0126404H
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Spent Carbon (GWTP)
Primary NAICS Code: 928110
EPA Waste Form Code: W310
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 155693
Waste Description: Generated in 1996. Clay removed from sumps during closure. Waste inactivated d
Desc of Waste: Not reported

MAP FINDINGS

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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code: Not reported
Texas Waste Code 2: 0125301H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Contaminated clay
Primary NAICS Code: 928110
EPA Waste Form Code: W301
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 151102
Waste Description: Concrete Debris. From demolition of sumps per sump closure plan. Waste inactiv
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01233902
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: concrete, non-hazard
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 149764
Waste Description: Solvent contaminated concrete debris from closure of hazardous waste sumps.Waste
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0122319H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported

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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: hazardous concrete
Primary NAICS Code: 928110
EPA Waste Form Code: W319
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 149763
Waste Description: Lab Pack. Debris from cleanup of mercury from instrument shop or spills.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0121002H
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: lab pack debris only
Primary NAICS Code: 928110
EPA Waste Form Code: W002
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 149762
Waste Description: Methylene Chloride. Excess due to closure of facility. Waste inactivateddue to
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0120202H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: methylene chloride
Primary NAICS Code: 928110

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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

EPA Waste Form Code: W202
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 142611
Waste Description: Heptane/Ethyl Acetate waste from CL-20 process. Generated:1996
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0119203H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Streams 1&5, CL-20
Primary NAICS Code: 325920
EPA Waste Form Code: W203
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 142610
Waste Description: Methanol/nitro-propane,& inorganics from DMNB synthesis. Generated:1996
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0118203H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Wastestream 5&7,DNMB
Primary NAICS Code: 325920
EPA Waste Form Code: W203
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 142609
Waste Description: Sludge from closure of explosive waste sumps. Generation start date 11/28/95.
Desc of Waste: Not reported
Texas Waste Code: Not reported

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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code 2: 0117609H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: sump sludge
Primary NAICS Code: 325998
EPA Waste Form Code: W609
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 142608
Waste Description: Contaminated soil. Fails TCLP on RCRA metal. Generated 1995. Waste inactivat
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0116302H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: contaminated soil
Primary NAICS Code: 928110
EPA Waste Form Code: W301
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 142607
Waste Description: Lead Peroxide. Excess or out of spec. material. Generated: 1995 Waste inacti
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0115212H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported

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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: catalyst C-5
Primary NAICS Code: 325998
EPA Waste Form Code: W210
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 142606
Waste Description: Cage ash. Residue from deactivation of explosives. Pass TCLP for metals.Genera
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01143031
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: cage ash, non-hzrds.
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 142605
Waste Description: Diesel. Water contaminated. Generation date: 1995. Waste inactivated dueto so
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01132191
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: diesel
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported

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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 142604
Waste Description: Triethylenetetramine. Excess or out of specification material. Generated:1995
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01122191
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: triethylenetetramine
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 142603
Waste Description: Transite siding. Removed from buildings for disposal. Nonfriable unless damage
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01113112
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: Yes
Company Waste ID: transite
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 142602
Waste Description: Solvent contaminated oil dry & debris from spill cleanup. Generated: 1995.Waste
Desc of Waste: Not reported
Texas Waste Code: Not reported

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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code 2: 0108319H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: contaminated oil dry
Primary NAICS Code: 325998
EPA Waste Form Code: W319
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 142601
Waste Description: Cellulose Nitrate Binder. Dried out or excess for disposal. Explosion Hazard.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0105210H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: cn binder
Primary NAICS Code: 325998
EPA Waste Form Code: W210
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 135996
Waste Description: Teflon, powdered, Out of specification particle size. Generated July 1995.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01093193
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 3
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported

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Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: Yes
Company Waste ID: Teflon
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 135995
Waste Description: Plant Production/Plant Office Refuse. Paper, packaging, glass, foil, plastics,
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01109992
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Trash
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 124429
Waste Description: Electrical motor varnish. Generated from rewinding electrical motors. Date of
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01072091
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: elec. motor varnish
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported

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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 124428
Waste Description: Magnesium Oxide Ash/Dust. Baghouse ash from the test tunnel where IR flares are
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01063042
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: baghouse dust
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 124427
Waste Description: Ammonium Perchlorate. Excess for disposal. Waste inactivated due to source red
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0104315H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: AP
Primary NAICS Code: 332993
EPA Waste Form Code: W319
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 124426
Waste Description: Pettman Cement. Excess for disposal from direct materials. Waste inactivated d
Desc of Waste: Not reported
Texas Waste Code: Not reported

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SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code 2: 0103203H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Pettman cement
Primary NAICS Code: 332993
EPA Waste Form Code: W203
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 124425
Waste Description: Oil soaked pigs, oil dry, and debris. Generated from hydraulic oil leaks,motor
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01024891
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: oil contaminated
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 113034
Waste Description: Transformers. Non-PCB. Less than 50ppm. Burnt out or leaking transformers from f
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00993191
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported

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Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Non-PCB transformers
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 113033
Waste Description: Isophorone Diisocyanate. Out of date or specification material. Date of initia
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00872121
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: I.P.D.I.
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113032
Waste Description: N-Methyl-2-Pyrrolidinone Used for cleaning process dies and equipment. Date of
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00862191
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: M-Pyrol
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113031
Waste Description: R-45 Hydroxy Terminated Poly Butadiene. Out-of-Specification or excess material
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00842121
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: HTPB
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113030
Waste Description: Lead Paint. Generated from building decontamination and removal of the paint.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0083319H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Lead Paint, Solid
Primary NAICS Code: 928110
EPA Waste Form Code: W319
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113029
Waste Description: Acetic Aqueous waste cleaning solution. Was used to clean process equipment. W
Desc of Waste: Not reported
Texas Waste Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code 2: 0080105H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Acetic Aqueous waste
Primary NAICS Code: 928110
EPA Waste Form Code: W105
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113028
Waste Description: Epon V-25 resin. Polyamide resin used in coating tubes & containers. Alsoused
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00792191
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Epon V-25
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113027
Waste Description: Versamid 140 resin. Polyamide resin used to coat tubes and containers. This is
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00782191
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Versamid 140
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113026
Waste Description: Plasthall Doz, excess chemical from Base Burner process. Date of initial genera
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00772191
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Plasthall DOZ
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113025
Waste Description: Neutralized Acid Waste. Generated from the manufacture of energetics. Waste in
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00481131
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: neutralized acid
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) | **S105168070**

Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113024
Waste Description: Excess of out-of-specification material. Used in propellant manufacturing.Waste
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00374091
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Ethanox 702
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113023
Waste Description: Oxamid antioxidant. Excess substance or out-of-specification. Used as a burn r
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00364092
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Oxamid
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113022
Waste Description: Sym-Di-beta-naphthyl-para-phenylenediamine. Excess or out-of-specificationWaste
Desc of Waste: Not reported
Texas Waste Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code 2: 00354091
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Agerite White
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113021
Waste Description: Triphenyl Bismuth. Excess of out-of-specification material from manufacturing p
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00344091
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: triphenyl bismuth
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113020
Waste Description: Cyanoethylated Polyamine. Excess or out-of specification material from propella
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00334031
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: HX879
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113019
Waste Description: Process wastewater from manufacturing. Waste inactivated due to source reductio
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00281131
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: process wastewater
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113018
Waste Description: Untreated sewage sludge. Generated from the on site federally owned treatment w
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01016081
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: sewage sludge
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113017
Waste Description: Grease. Used or excess grease from garage. Waste inactivated due to source red
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 01006961
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: greases
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113016
Waste Description: Explosive contaminated waste. Generally gloves, bags, paper, plastic bottles, et
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00769011
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: Yes
Company Waste ID: explosive cont.waste
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: CLASS AUDIT
EPA Haz Waste: Not reported

Waste:
Waste ID: 113015
Waste Description: Wood debris. Non-usable pallets, and wood debris from carpenter shop & building
Desc of Waste: Not reported
Texas Waste Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code 2: 00854882
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: wood debris
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 113014
Waste Description: Paint Waste. Generated from excess or old paint from the paint (thinner also) s
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0082209H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Paint waste
Primary NAICS Code: 928110
EPA Waste Form Code: W209
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113013
Waste Description: Hexane/Acetone waste. 90 2.121997e-313xane, 10acetone. Used in a processmanufa
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0081203H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: hexane waste
Primary NAICS Code: 928110
EPA Waste Form Code: W203
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113012
Waste Description: Reactive and explosive waste. Generatedfrom production processes of pyrotechnic
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0075405H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: explosive waste
Primary NAICS Code: 928110
EPA Waste Form Code: W405
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 113011
Waste Description: Barium contaminated ash generated from the thermal treatment of explosives, pro
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0030303H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Barium Ash
Primary NAICS Code: 928110
EPA Waste Form Code: W303

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101246
Waste Description: Wood debris. Generated from manufacturing and maintenance areas. Scrap pallets
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00744882
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101245
Waste Description: Chromium contaminated water. Less than 5 ppm and greater than .1ppm chromium.
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00731192
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101244
Waste Description: Chromium contaminated water. This water is generated from explosives processing
Desc of Waste: Not reported
Texas Waste Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code 2: 0072119H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: 928110
EPA Waste Form Code: W119
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101243
Waste Description: PCB debris. Gloves, napkins, towels, tyvek coveralls contaminated with poly chl
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00713941
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101242
Waste Description: Pallets, treated with PCP. Generated from items that are demilitarized. Older
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00704071
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 1
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101241
Waste Description: Barium nitrate, excess or out of specification industrial stocks. Date ofinitia
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0069316H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: 928110
EPA Waste Form Code: W316
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101240
Waste Description: Cardboard/corrugate. Corrugate packaging material from plant production operati
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00689012
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101239
Waste Description: Sodium nitrate. Out of specification or excess material from manufacturingareas
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0067319H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: 928110
EPA Waste Form Code: W319
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101238
Waste Description: Plant office refuse: Class 2 paper, linings, cardboard, wrappings, or woodpacka
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 00669032
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: Yes
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: CLASS AUDIT
EPA Haz Waste: Not reported

Waste:
Waste ID: 101237
Waste Description: Plant production refuse: Class 2 paper, cardboard, linings, wrappings, paper pa
Desc of Waste: Not reported
Texas Waste Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code 2: 00659012
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: 2
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: Not reported
EPA Waste Form Code: Not reported
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101236
Waste Description: Lab pack. Mixed old chemicals from chemical laboratory. Most chemicals are org
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0064001H
Waste Code Status: ACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: Not reported
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: 928110
EPA Waste Form Code: W001
Reason Waste Form No Longer Gen.: Not reported
EPA Haz Waste: Not reported

Waste:
Waste ID: 101235
Waste Description: Richcoat silver 72B. Waste/excess urethane roofing material. Date of initial g
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0063219H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: 928110
EPA Waste Form Code: W219
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101234
Waste Description: Fluoroelastomer & acetone. This solution is used as a material in the productio
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0062203H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: 928110
EPA Waste Form Code: W203
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101233
Waste Description: Waste acetone/water mixture. Solvent is used to clean compositions from mixture
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0061201H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: 928110
EPA Waste Form Code: W204

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101232
Waste Description: Safety solvent/ethanol mixture solvent contains mineral spirits, methylenechlori
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0060219H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: 928110
EPA Waste Form Code: W219
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101131
Waste Description: Alcohol waste from washdown of process equipment. Mixed with some water.Not c
Desc of Waste: Not reported
Texas Waste Code: Not reported
Texas Waste Code 2: 0059101H
Waste Code Status: INACTIVE
Waste Form: Not reported
Waste Classification: H
Waste is Radioactive: No
Waste Treated Off Site: 1
Standard Industrial Classification: Not reported
Primary Source: Not reported
Primary Measurenent Point: Not reported
Primary Origin: Not reported
Primary System Type: Not reported
New Chemical Substance: 0
Audit Performed: No
Company Waste ID: Not reported
Primary NAICS Code: 928110
EPA Waste Form Code: W101
Reason Waste Form No Longer Gen.: UNKNOWN
EPA Haz Waste: Not reported

Waste:
Waste ID: 101129
Waste Description: Ecco 72F, Waste acetic cleaning solution. Generated from cleaning of process eq
Desc of Waste: Not reported
Texas Waste Code: Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Texas Waste Code 2:	0058101H
Waste Code Status:	INACTIVE
Waste Form:	Not reported
Waste Classification:	H
Waste is Radioactive:	No
Waste Treated Off Site:	1
Standard Industrial Classification:	Not reported
Primary Source:	Not reported
Primary Measurenent Point:	Not reported
Primary Origin:	Not reported
Primary System Type:	Not reported
New Chemical Substance:	0
Audit Performed:	No
Company Waste ID:	Not reported
Primary NAICS Code:	928110
EPA Waste Form Code:	W101
Reason Waste Form No Longer Gen.:	UNKNOWN
EPA Haz Waste:	Not reported

GCC:

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
Division:	REM/SF
New Cases:	Not reported
File Number:	SUP126
Contamination Description:	VOCS, METALS, PERCHLORATE
Date Of Earliest Known Contamination Confirmation:	5/12/1995
Enforcement Status - Level Of Agency Response:	3B -
Enforcement Status - Site Activity Status:	5 - Monitor Action
Data Quality 1:	E, Q, V2, V3
Section 5236:	Not reported
Type:	GROUNDWATER CONTAMINATION CASE DESCRIPTION BY COUNTY TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Agency:	Not reported
Section:	Not reported
Year Deleted:	Not reported
Location:	Not reported
Data Quality 2:	Not reported

Name:	LONGHORN ARMY AMMUNITION PLANT
Address:	15600 ST HWY 134
City,State,Zip:	KARNACK, TX
Division:	REM/SF
New Cases:	Not reported
File Number:	SUP126
Contamination Description:	VOCs, METALS, PERCHLORATE
Date Of Earliest Known Contamination Confirmation:	5/12/1995
Enforcement Status - Level Of Agency Response:	-
Enforcement Status - Site Activity Status:	4B/L2 - Implement Action/LInvestigation
Data Quality 1:	E, Q, V3
Section 5236:	Not reported
Type:	GROUNDWATER CONTAMINATION CASE DESCRIPTION BY COUNTY TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Agency:	Not reported
Section:	Not reported
Year Deleted:	Not reported

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.) Site | Database(s) | EDR ID Number | EPA ID Number

SEE SUPERFUND LONGHORN ARMY AMMUNITION PLANT (Continued) **S105168070**

Location: Not reported
Data Quality 2: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
City,State,Zip: KARNACK, TX
Division: REM/SF
New Cases: Not reported
File Number: SUP126
Contamination Description: VOCS, METALS, PERCHLORATE
Date Of Earliest Known Contamination Confirmation: 5/12/1995
Enforcement Status - Level Of Agency Response: 4B - Court or Federal Agency Action - let federal agencies seek resolution according to federal laws or programs
Enforcement Status - Site Activity Status: 5 - Monitor Action
Data Quality 1: E, Q, V2, V3
Section 5236: Not reported
Type: GROUNDWATER CONTAMINATION CASE DESCRIPTION BY COUNTY TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Agency: Not reported
Section: Not reported
Year Deleted: Not reported
Location: Not reported
Data Quality 2: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
City,State,Zip: KARNACK, TX
Division: REM/SF
New Cases: Not reported
File Number: SUP126
Contamination Description: VOCs, METALS, PERCHLORATE
Date Of Earliest Known Contamination Confirmation: 5/12/1995
Enforcement Status - Level Of Agency Response: 4B - Court or Federal Agency Action - let federal agencies seek resolution according to federal laws or programs
Enforcement Status - Site Activity Status: 5 - Monitor Action
Data Quality 1: Not reported
Section 5236: Not reported
Type: 2019 GROUNDWATER CONTAMINATION CASE DESCRIPTION BY COUNTY TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
Agency: Not reported
Section: Not reported
Year Deleted: Not reported
Location: Not reported
Data Quality 2: Not reported

Name: LONGHORN ARMY AMMUNITION PLANT
Address: 15600 ST HWY 134
City,State,Zip: KARNACK, TX
Division: REM/SF
New Cases: Not reported
File Number: SUP126
Contamination Description: VOCS, METALS, PERCHLORATE
Date Of Earliest Known Contamination Confirmation: 5/12/1995
Enforcement Status - Level Of Agency Response: 4B - Court or Federal Agency Action - let federal agencies seek resolution according to federal laws or programs
Enforcement Status - Site Activity Status: 5 - Monitor Action
Data Quality 1: E, Q, V3