LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 12

2025

Bate Stamp Numbers
01309528 – 01311479

Prepared for

Department of the Army
Longhorn Army Ammunition Plant

1976–2025

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

VOLUME 12

2025

A.	Title:	(Cont'd) Report – Appendix F labs File 1 to Draft Quarterly Evaluation Report, 2nd Quarter (April-June) 2024 Groundwater Treatment Plant, Longhorn Army Ammunition Plant, Karnack, Texas
	Author(s):	PCI-Bhate JV
	Recipient:	Longhorn Army Ammunition Plant
	Date:	March 7, 2025
	Bate Stamp:	01309528–01311479

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LabSampID : PAHSIM-0.010

Benzo(b)fluoranthene (205-99-2)

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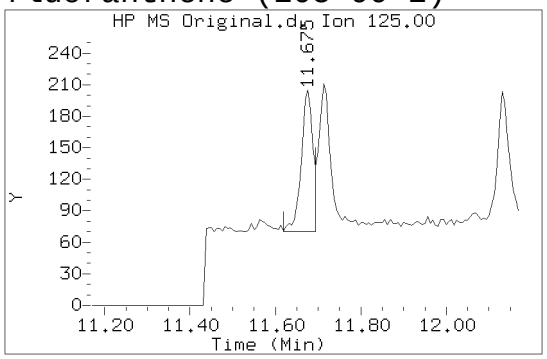
linh
pham



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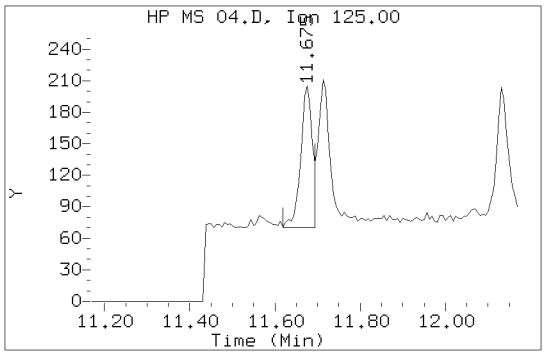

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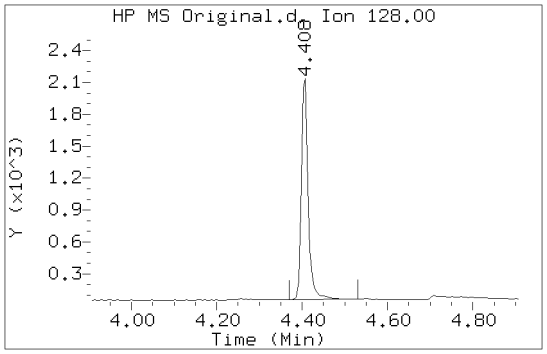

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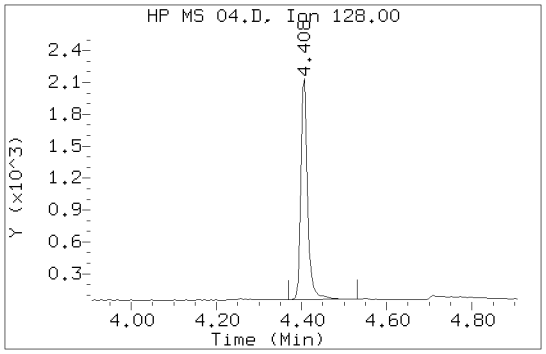

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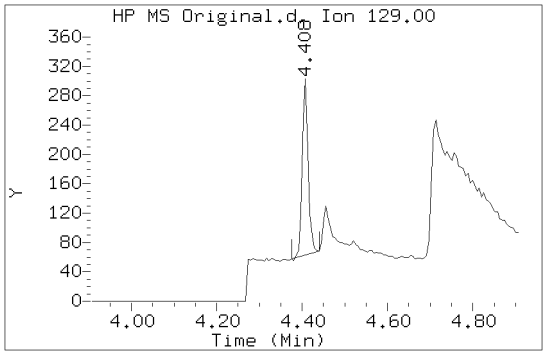

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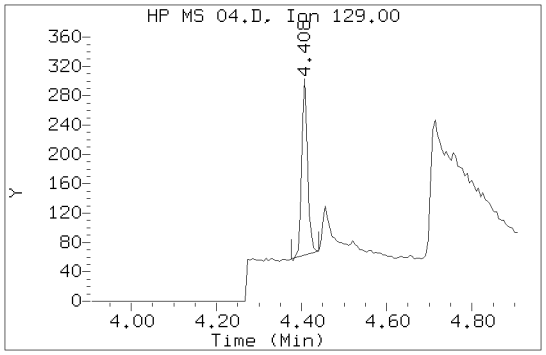

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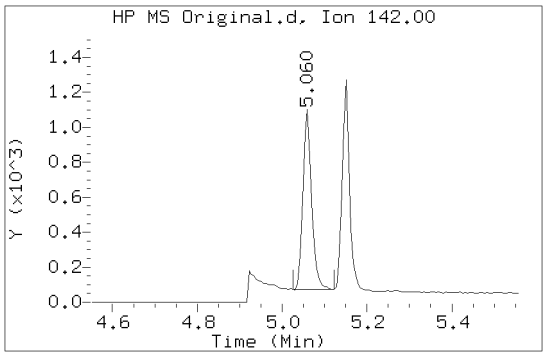

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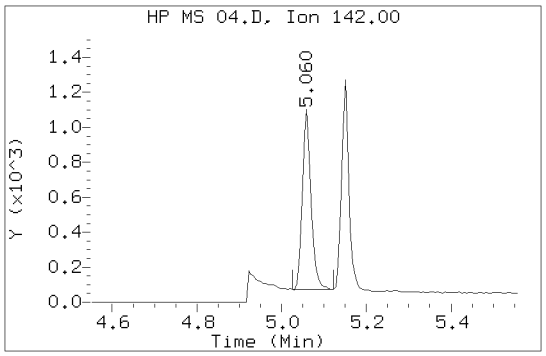

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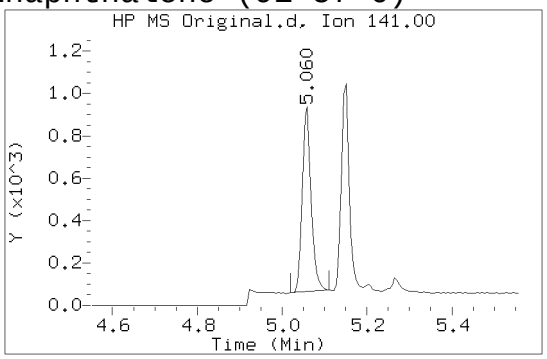

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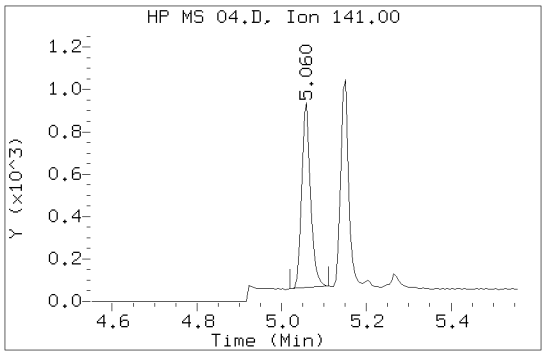

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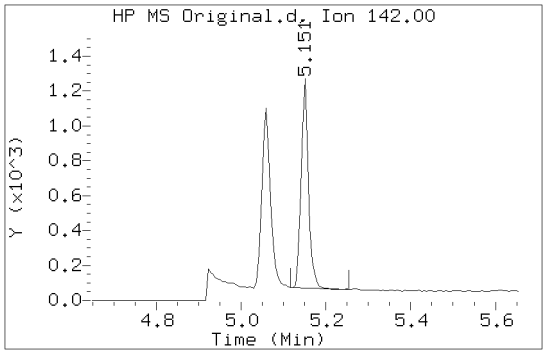

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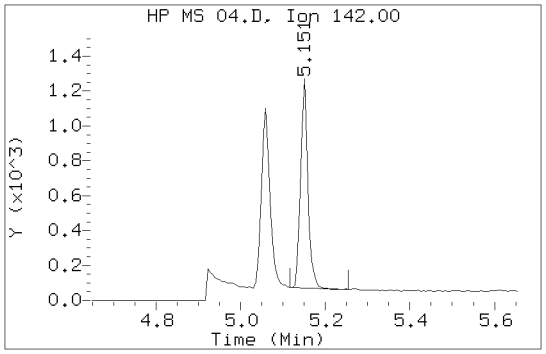

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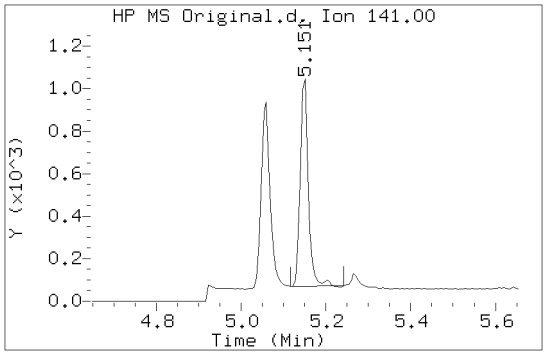

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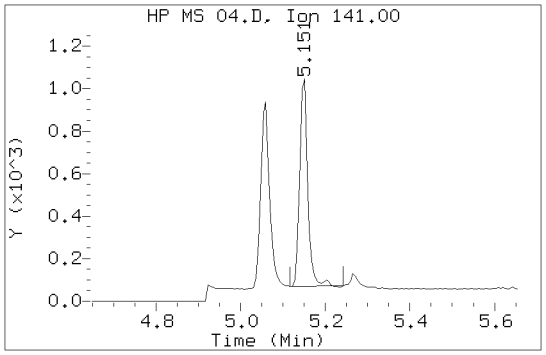

Acenaphthylene (208-96-8)

Reason Code:

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18-Dec-2023
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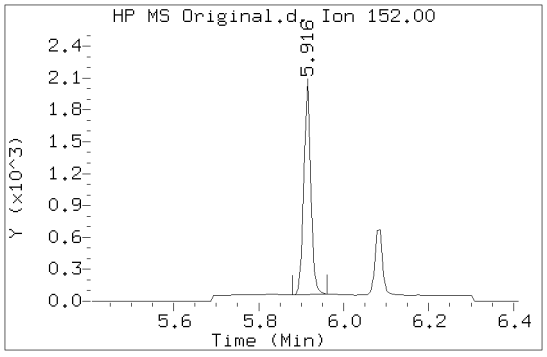

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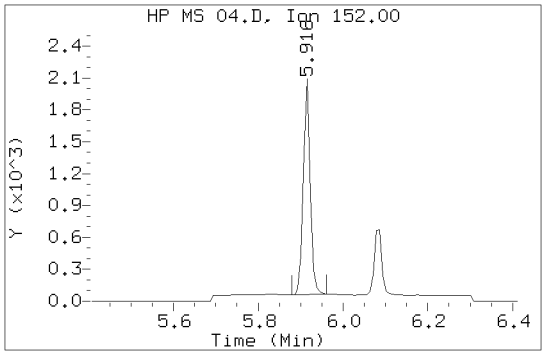

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InstruID : SV6.i
LabSampID : PAHSIM-0.010

Acenaphthylene (208-96-8)

Reason Code:

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AREA
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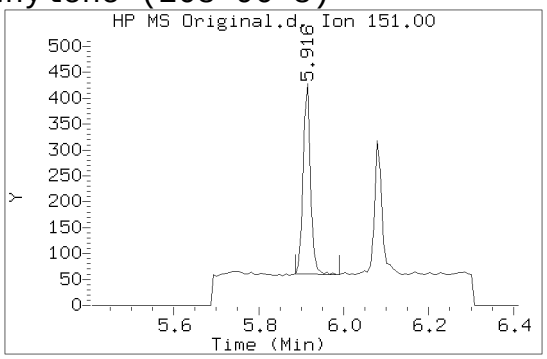
HEIGHT
367
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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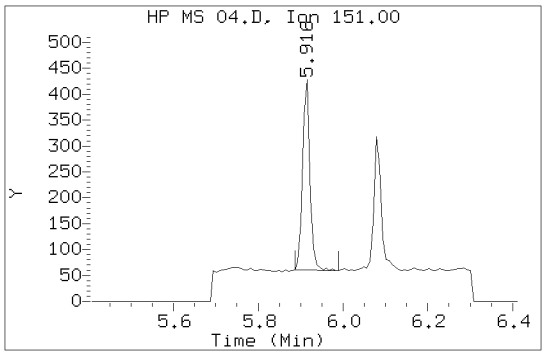

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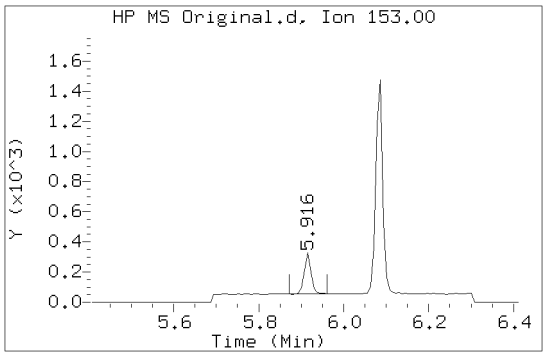

AFTER

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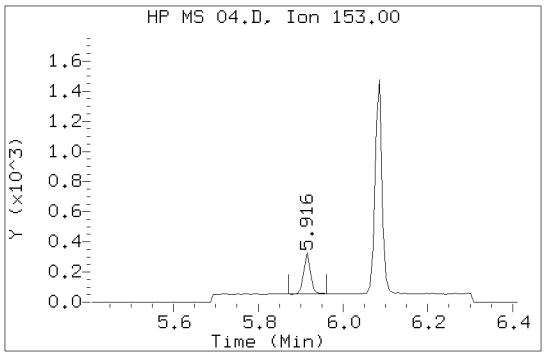

Acenaphthene (83-32-9)

Reason Code:

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18-Dec-2023
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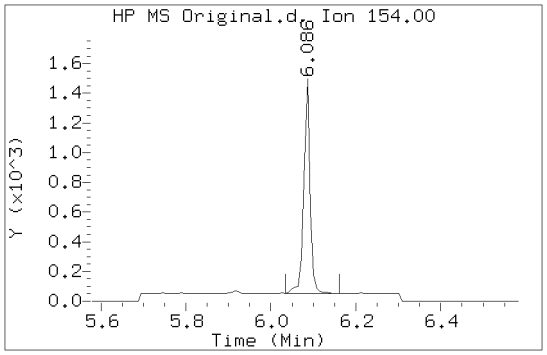

AFTER

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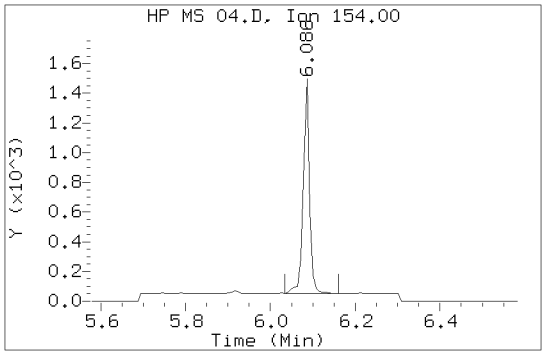
pham



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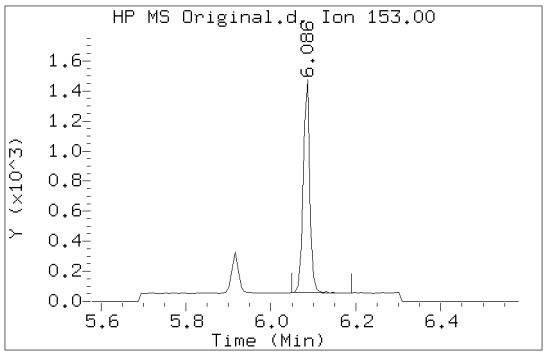

AFTER

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18-Dec-2023
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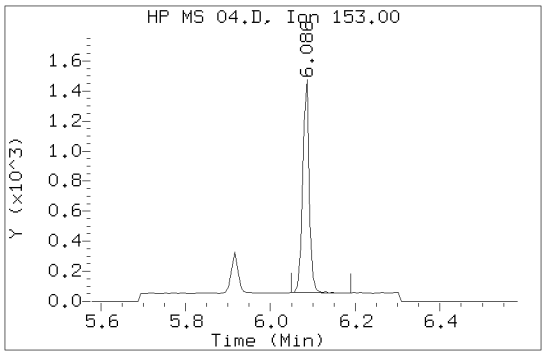

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Acenaphthene (83-32-9)

Reason Code:

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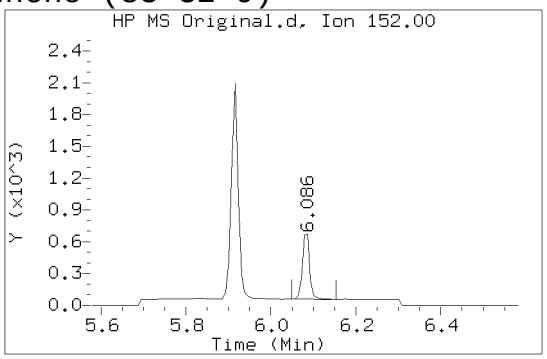
pham



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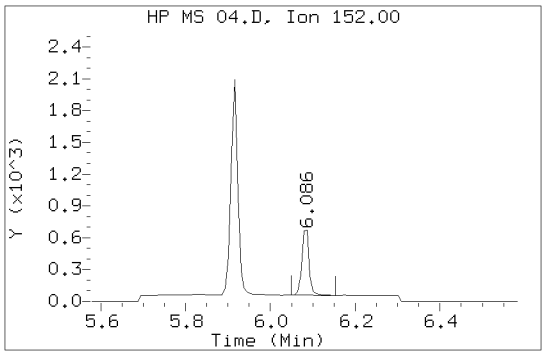

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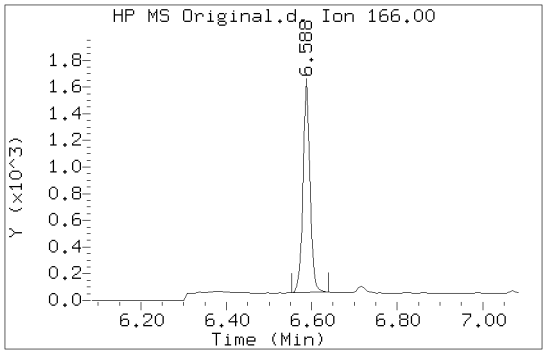

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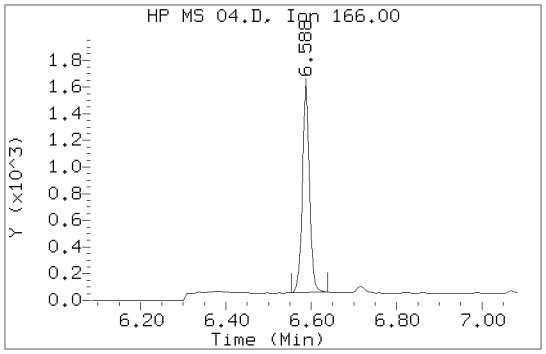

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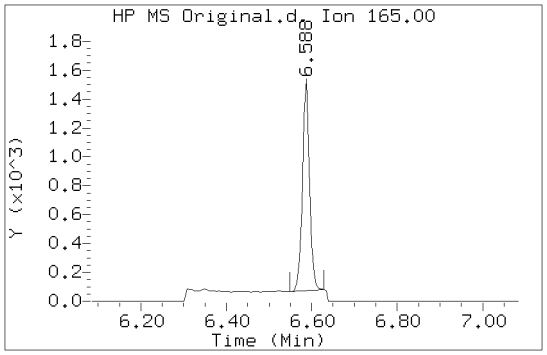

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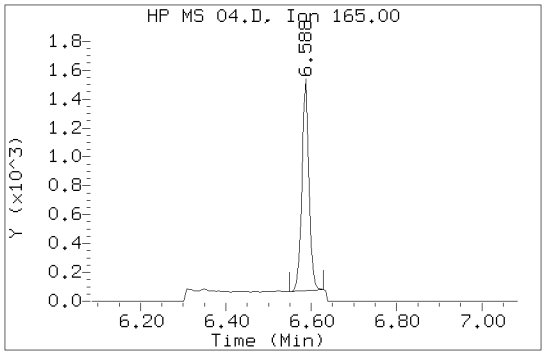

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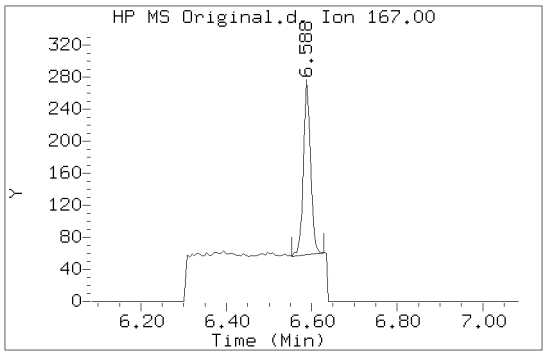

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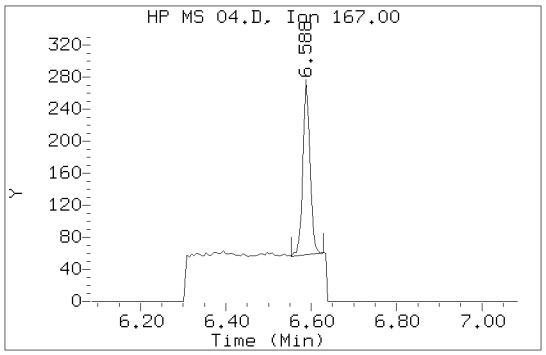

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Dibenzofuran (132-64-9)

Reason Code:

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694
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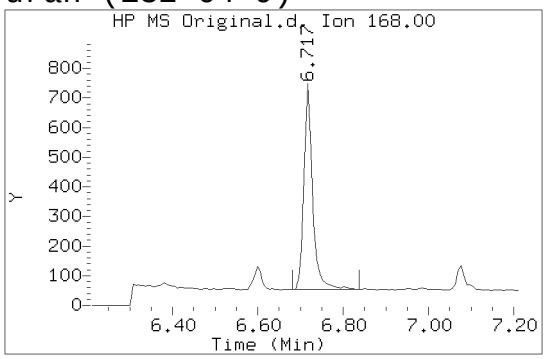

AFTER

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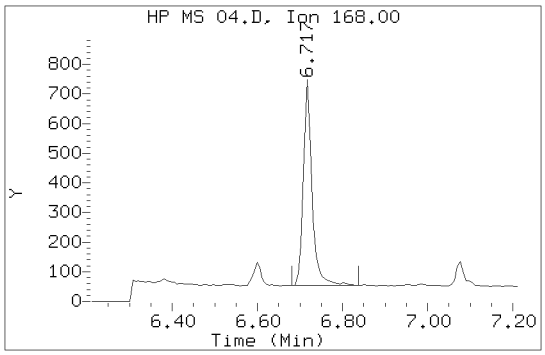

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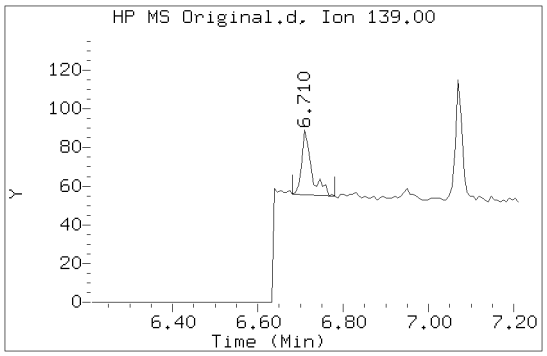

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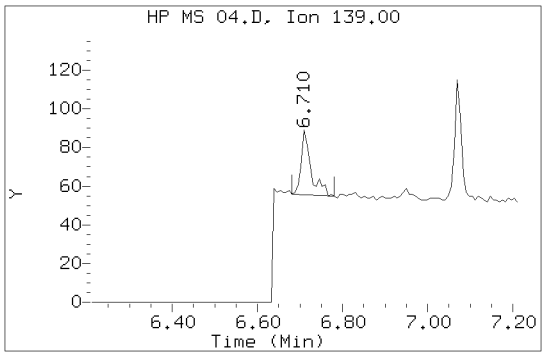

Phenanthrene (85-01-8)

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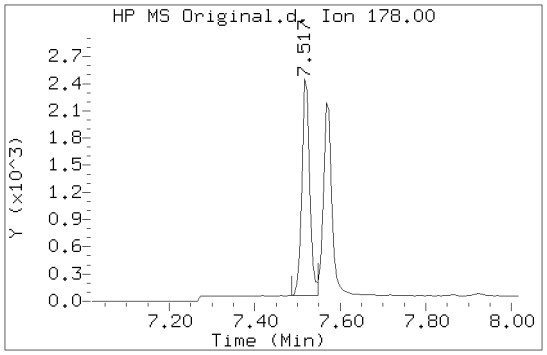

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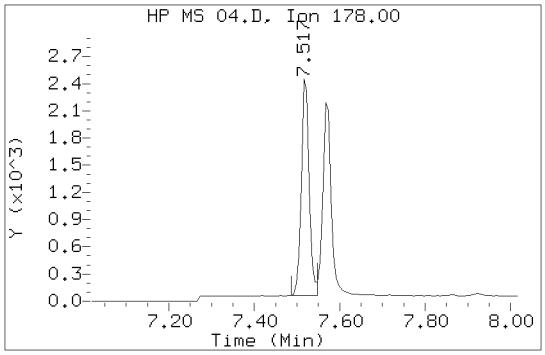

BEFORE

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18-Dec-2023
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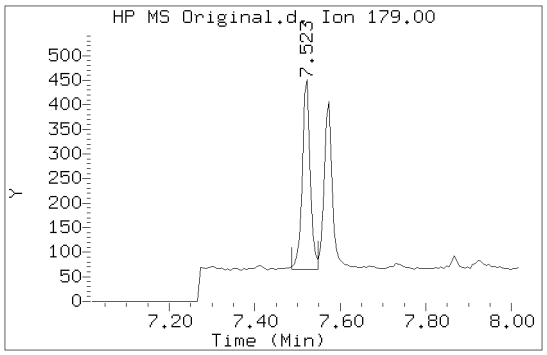
pham



AFTER

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HEIGHT
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18-Dec-2023
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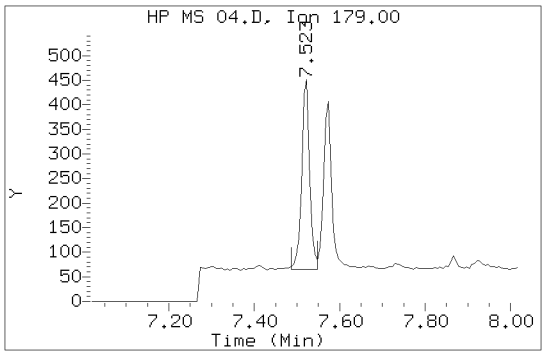
pham



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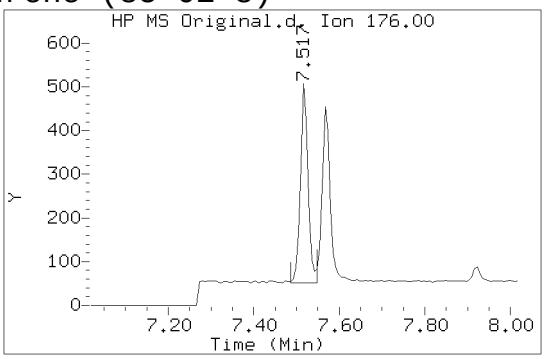
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Phenanthrene (85-01-8)

Reason Code:

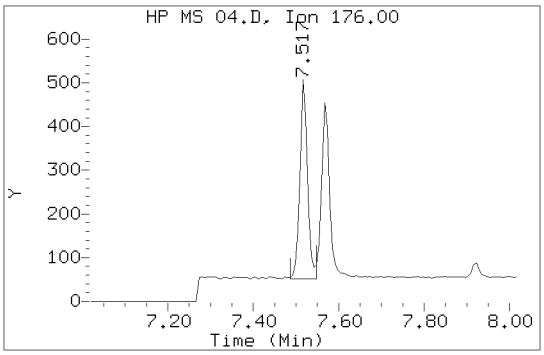
BEFORE

MASS
176
AREA
568
HEIGHT
456
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
568
HEIGHT
456
18-Dec-2023
10:16
linh
pham

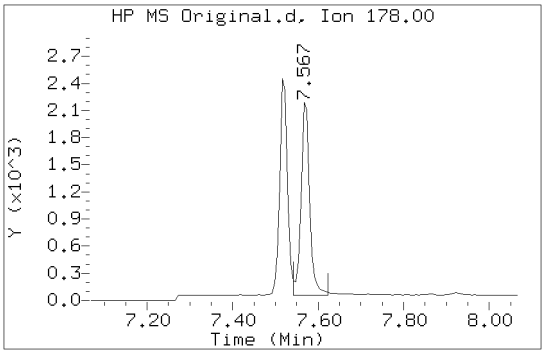


Anthracene (120-12-7)

Reason Code:

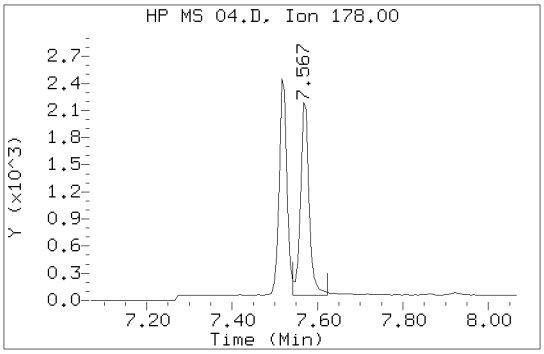
BEFORE

MASS
178
AREA
2993
HEIGHT
2136
18-Dec-2023
10:16
linh
pham



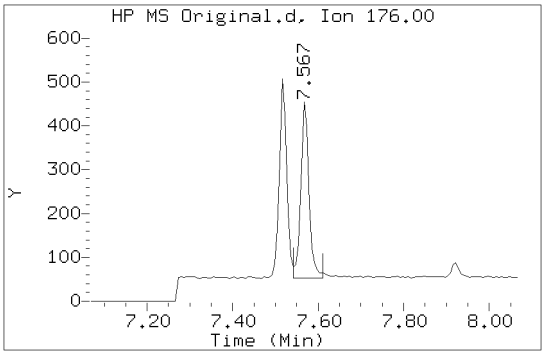
AFTER

MASS
178
AREA
2993
HEIGHT
2136
18-Dec-2023
10:16
linh
pham



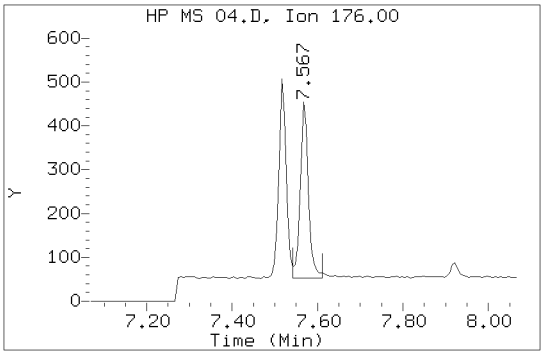
BEFORE

MASS
176
AREA
527
HEIGHT
401
18-Dec-2023
10:16
linh
pham



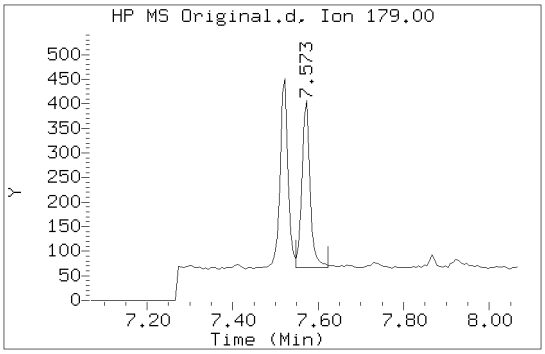
AFTER

MASS
176
AREA
527
HEIGHT
401
18-Dec-2023
10:16
linh
pham



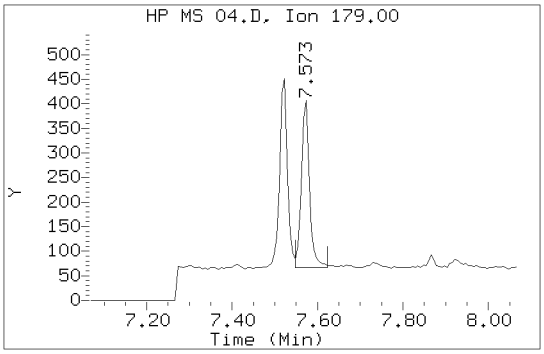
BEFORE

MASS
179
AREA
452
HEIGHT
341
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
452
HEIGHT
341
18-Dec-2023
10:16
linh
pham



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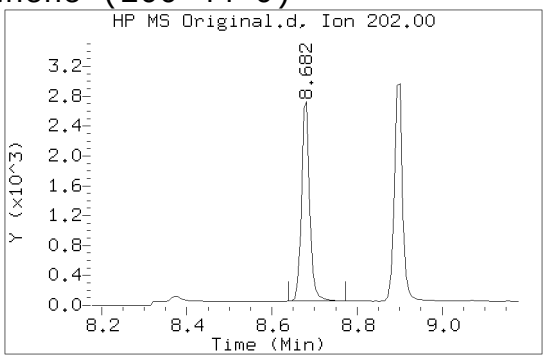
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Fluoranthene (206-44-0)

Reason Code:

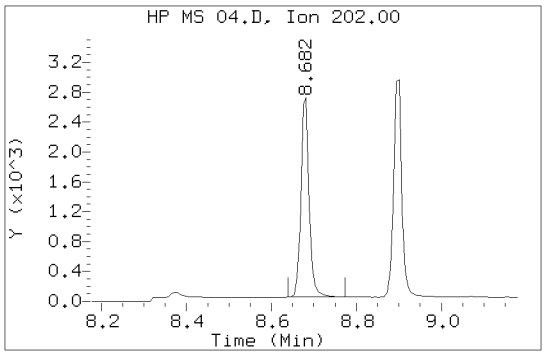
BEFORE

MASS
202
AREA
3567
HEIGHT
2671
18-Dec-2023
10:16
linh
pham



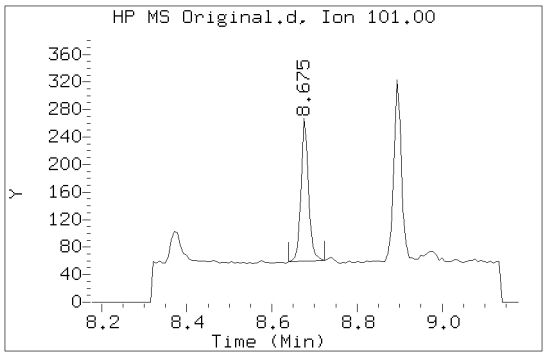
AFTER

MASS
202
AREA
3567
HEIGHT
2671
18-Dec-2023
10:16
linh
pham



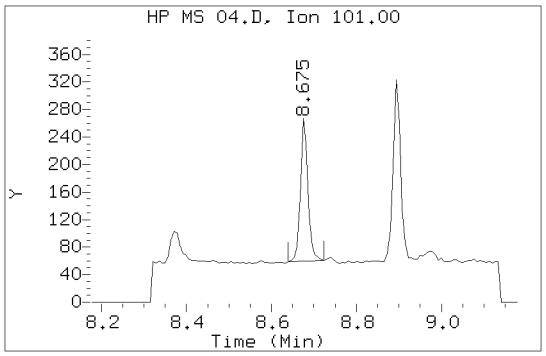
BEFORE

MASS
101
AREA
253
HEIGHT
207
18-Dec-2023
10:16
linh
pham



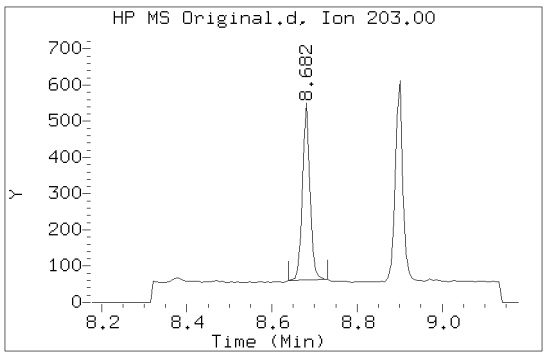
AFTER

MASS
101
AREA
253
HEIGHT
207
18-Dec-2023
10:16
linh
pham



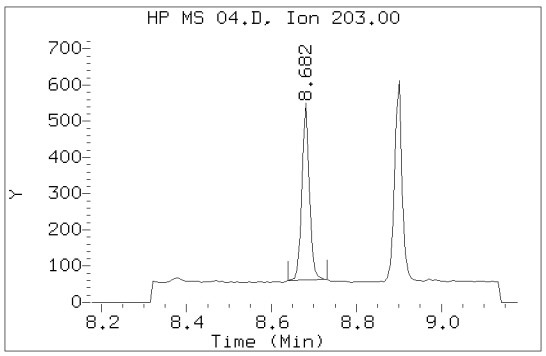
BEFORE

MASS
203
AREA
598
HEIGHT
489
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
598
HEIGHT
489
18-Dec-2023
10:16
linh
pham

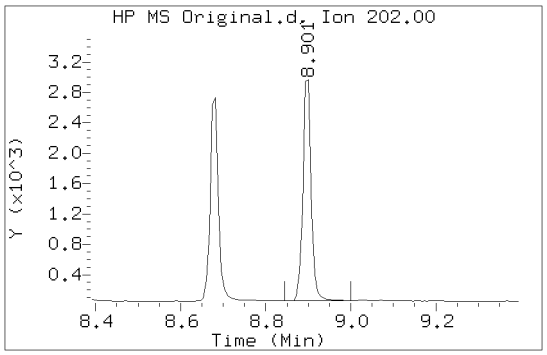


Pyrene (129-00-0)

Reason Code:

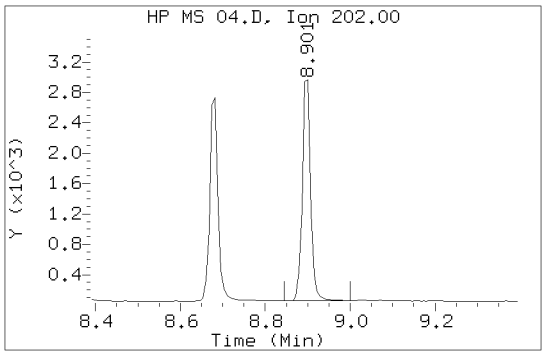
BEFORE

MASS
202
AREA
3927
HEIGHT
2910
18-Dec-2023
10:16
linh
pham



AFTER

MASS
202
AREA
3927
HEIGHT
2910
18-Dec-2023
10:16
linh
pham



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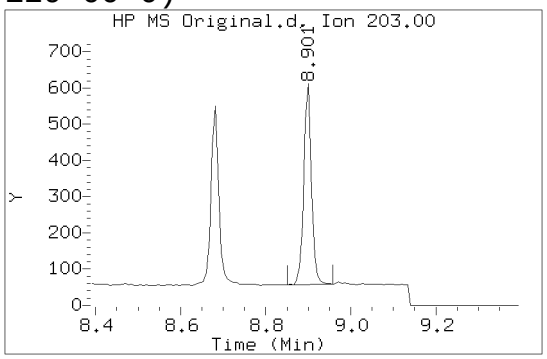
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

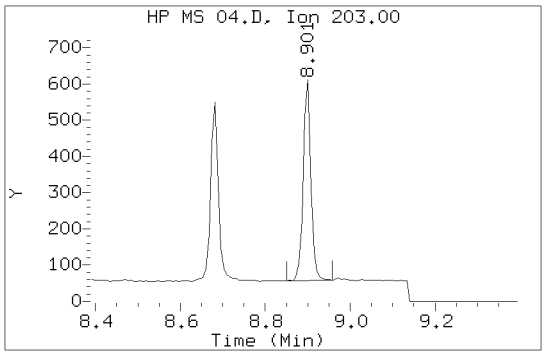
Pyrene (129-00-0)

Reason Code:

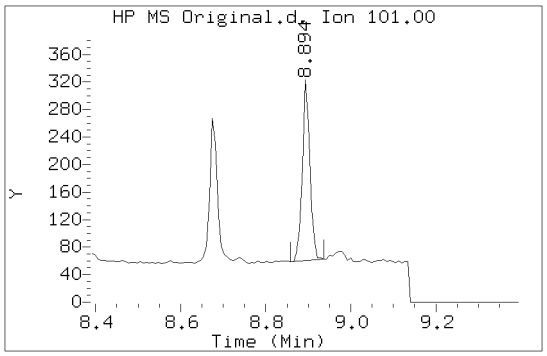
BEFORE
MASS
203
AREA
683
HEIGHT
554
18-Dec-2023
10:16
linh
pham



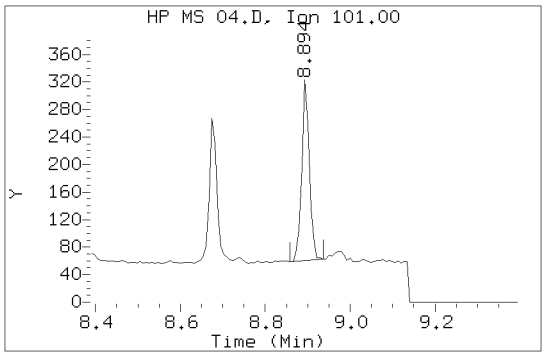
AFTER
MASS
203
AREA
683
HEIGHT
554
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
101
AREA
319
HEIGHT
262
18-Dec-2023
10:16
linh
pham



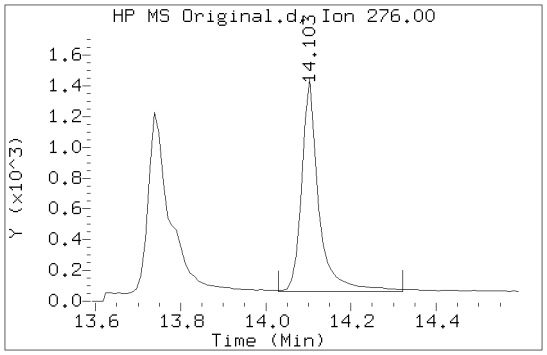
AFTER
MASS
101
AREA
319
HEIGHT
262
18-Dec-2023
10:16
linh
pham



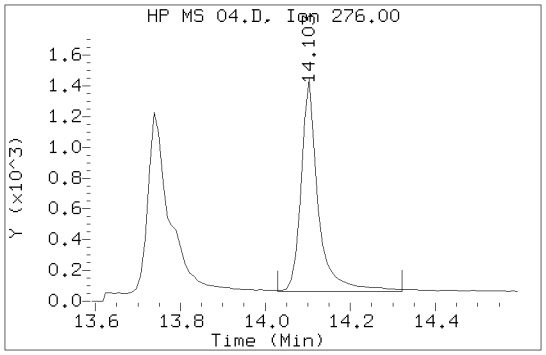
Benzo(g,h,i)perylene (191-24-2)

Reason Code:

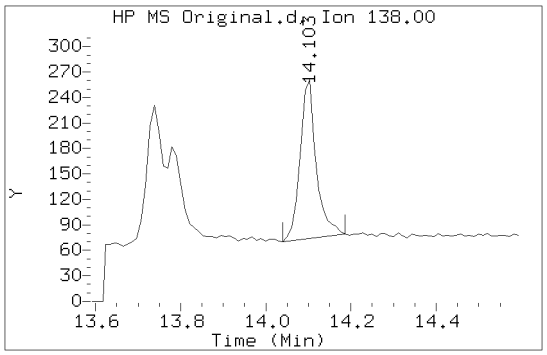
BEFORE
MASS
276
AREA
3852
HEIGHT
1382
18-Dec-2023
10:16
linh
pham



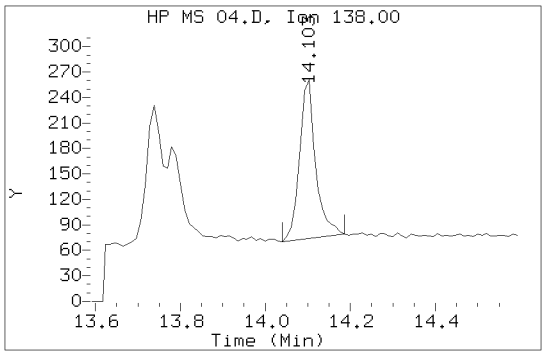
AFTER
MASS
276
AREA
3852
HEIGHT
1382
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
138
AREA
488
HEIGHT
187
18-Dec-2023
10:16
linh
pham



AFTER
MASS
138
AREA
488
HEIGHT
187
18-Dec-2023
10:16
linh
pham



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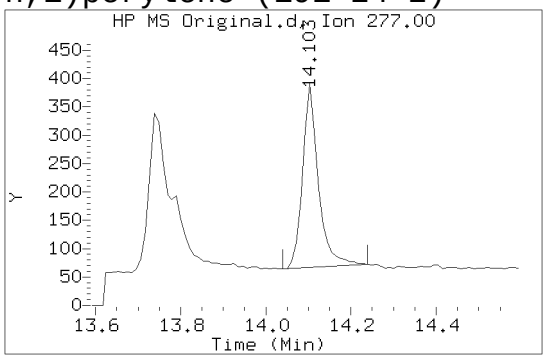
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

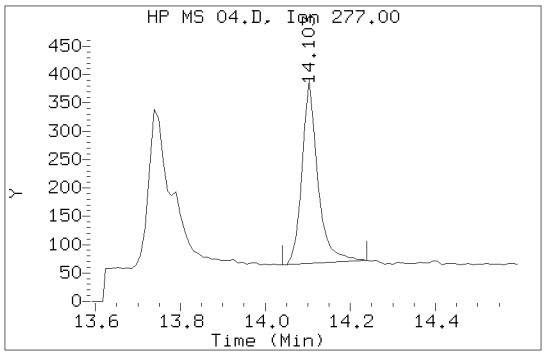
BEFORE

MASS
277
AREA
820
HEIGHT
323
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
820
HEIGHT
323
18-Dec-2023
10:16
linh
pham

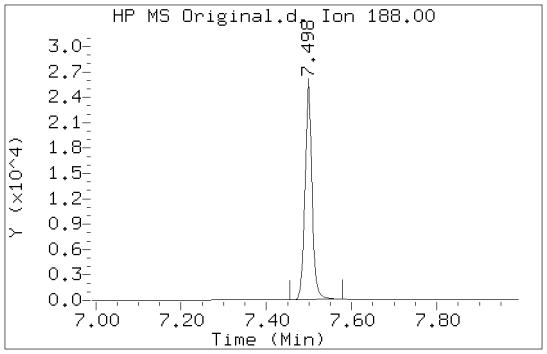


Phenanthrene-d10 (1517-22-2)

Reason Code:

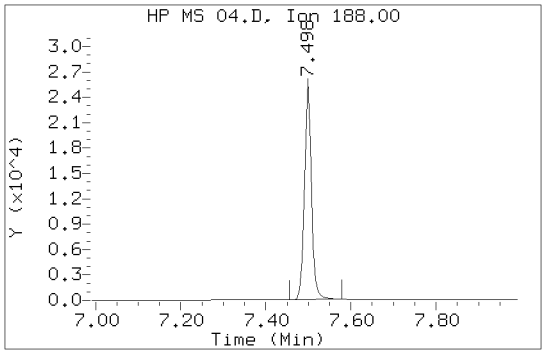
BEFORE

MASS
188
AREA
28419
HEIGHT
26124
18-Dec-2023
10:16
linh
pham



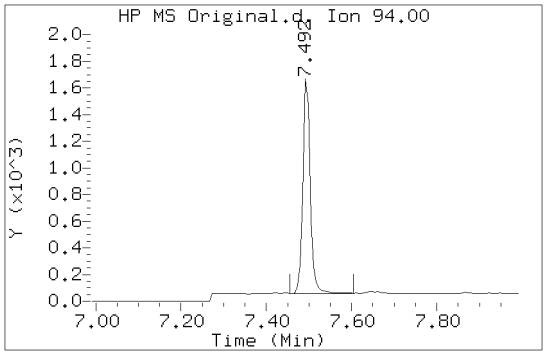
AFTER

MASS
188
AREA
28419
HEIGHT
26124
18-Dec-2023
10:16
linh
pham



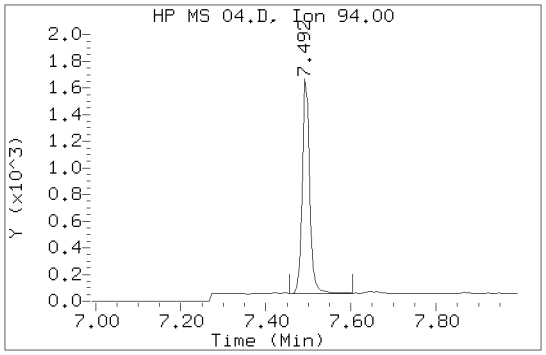
BEFORE

MASS
94
AREA
1865
HEIGHT
1608
18-Dec-2023
10:16
linh
pham



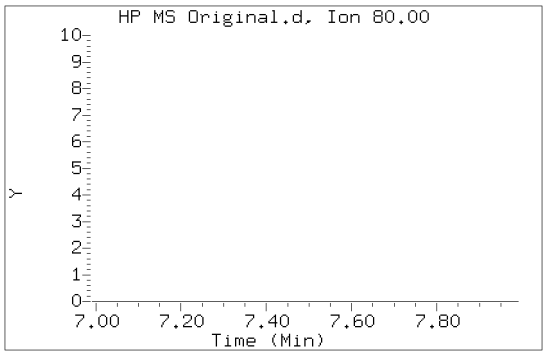
AFTER

MASS
94
AREA
1865
HEIGHT
1608
18-Dec-2023
10:16
linh
pham



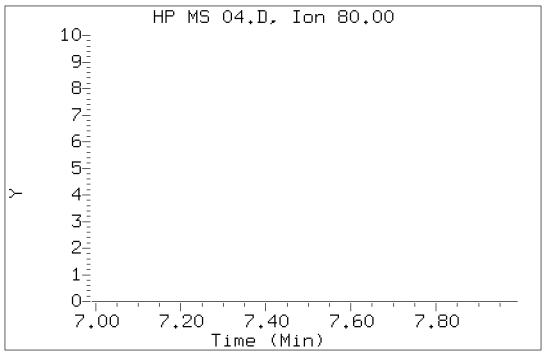
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



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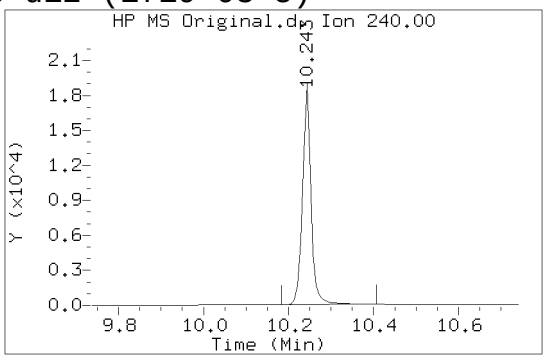
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Chrysene-d12 (1719-03-5)

Reason Code:

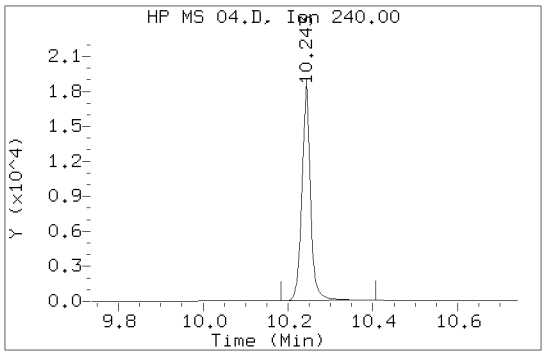
BEFORE

MASS
240
AREA
26412
HEIGHT
18940
18-Dec-2023
10:16
linh
pham



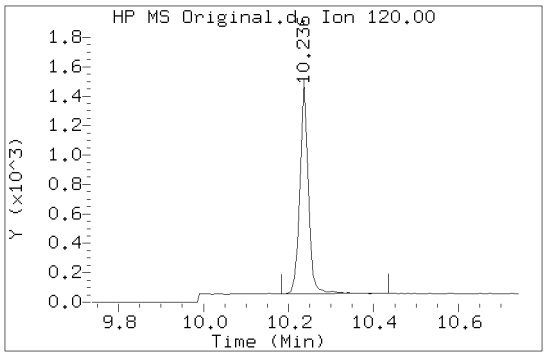
AFTER

MASS
240
AREA
26412
HEIGHT
18940
18-Dec-2023
10:16
linh
pham



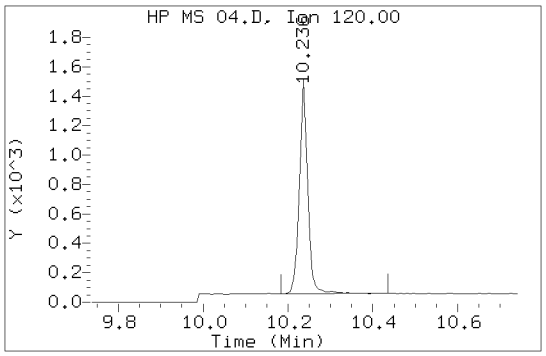
BEFORE

MASS
120
AREA
1988
HEIGHT
1454
18-Dec-2023
10:16
linh
pham



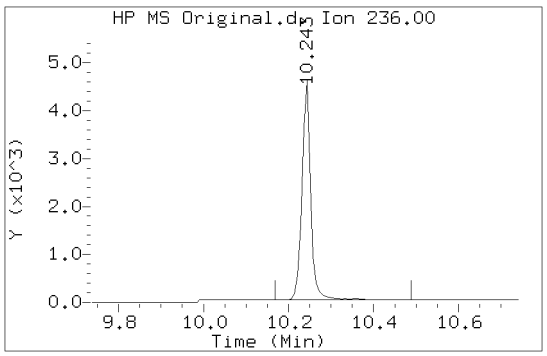
AFTER

MASS
120
AREA
1988
HEIGHT
1454
18-Dec-2023
10:16
linh
pham



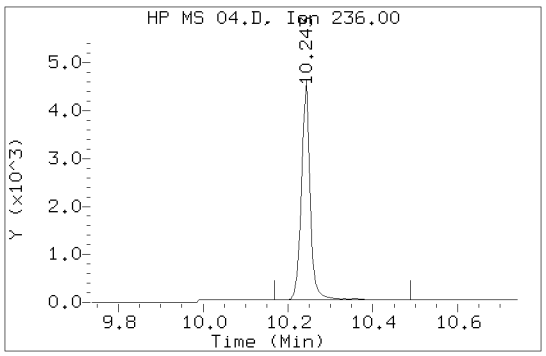
BEFORE

MASS
236
AREA
6570
HEIGHT
4574
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
6570
HEIGHT
4574
18-Dec-2023
10:16
linh
pham

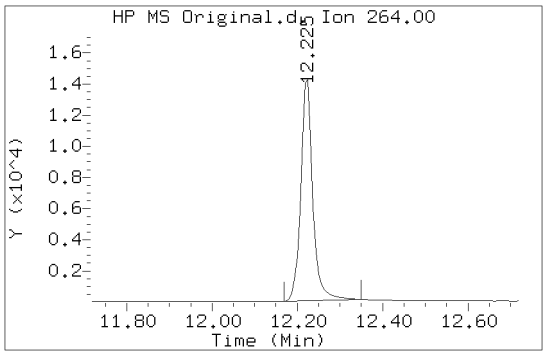


Perylene-d12 (1520-96-3)

Reason Code:

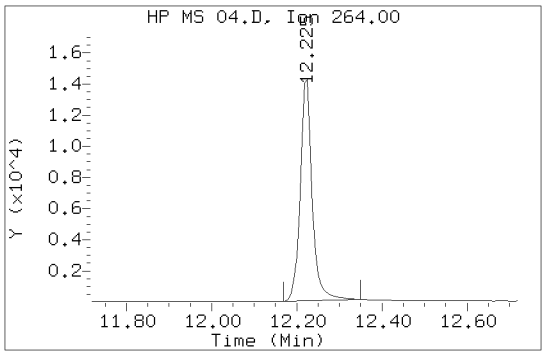
BEFORE

MASS
264
AREA
28037
HEIGHT
14192
18-Dec-2023
10:16
linh
pham



AFTER

MASS
264
AREA
28037
HEIGHT
14192
18-Dec-2023
10:16
linh
pham



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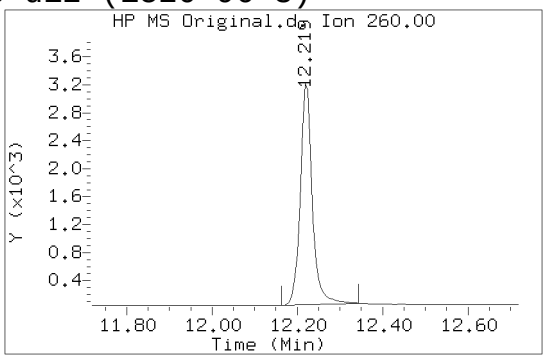
Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Perylene-d12 (1520-96-3)

Reason Code:

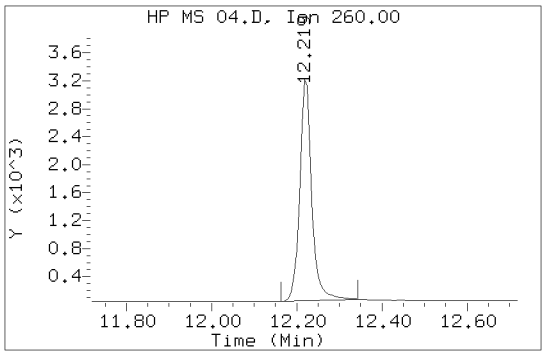
BEFORE

MASS
260
AREA
6252
HEIGHT
3158
18-Dec-2023
10:16
linh
pham



AFTER

MASS
260
AREA
6252
HEIGHT
3158
18-Dec-2023
10:16
linh
pham



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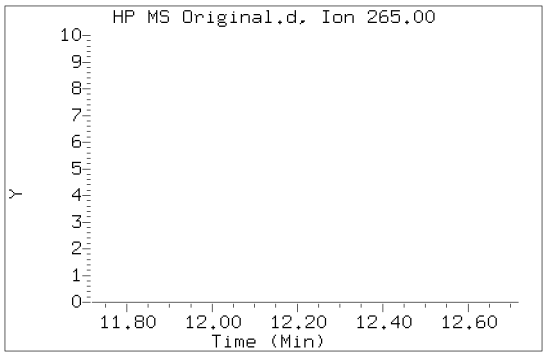

AFTER

MASS
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10:16
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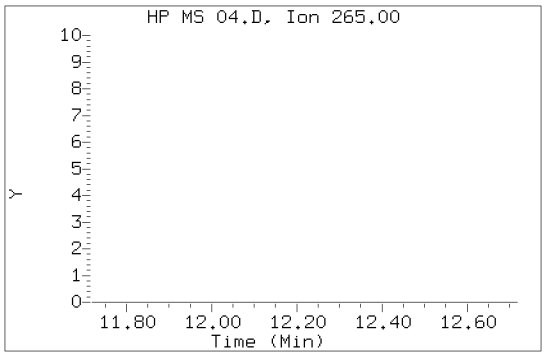

Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE

MASS
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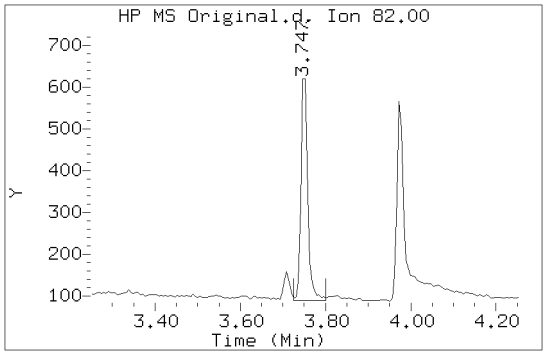
HEIGHT
532
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
588
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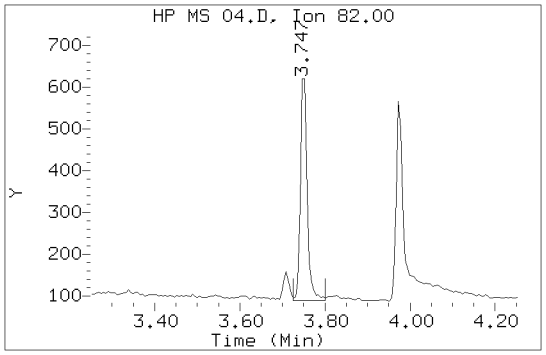
18-Dec-2023
10:16
linh
pham



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268
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278
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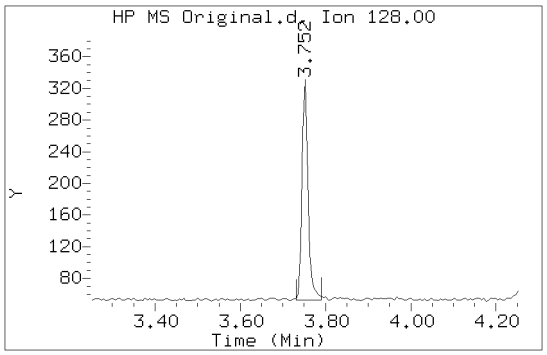

AFTER

MASS
128
AREA
268
HEIGHT
278
18-Dec-2023
10:16
linh
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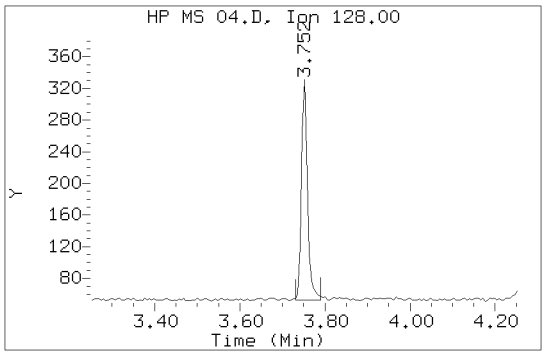

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Inj Date : 12-DEC-2023 13:58
InstruID : SV6.i
LabSampID : PAHSIM-0.010

Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE

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18-Dec-2023
10:16
linh
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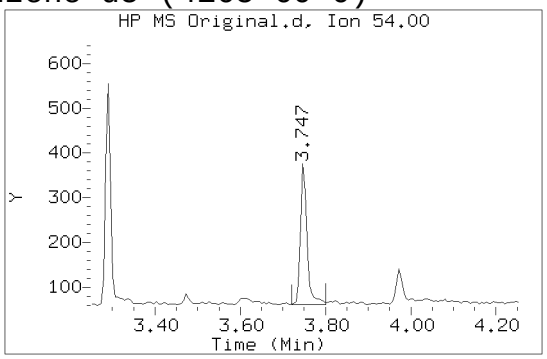

AFTER

MASS
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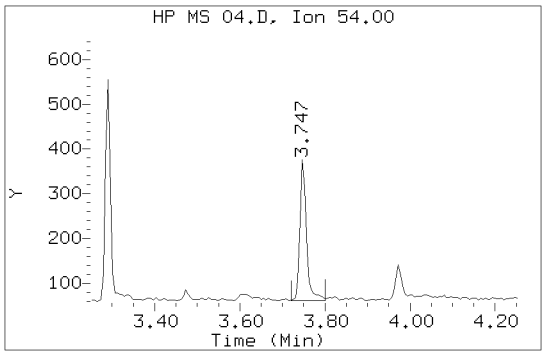
AREA
332
HEIGHT
314
18-Dec-2023
10:16
linh
pham



2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE

MASS
172
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2011
HEIGHT
1422
18-Dec-2023
10:16
linh
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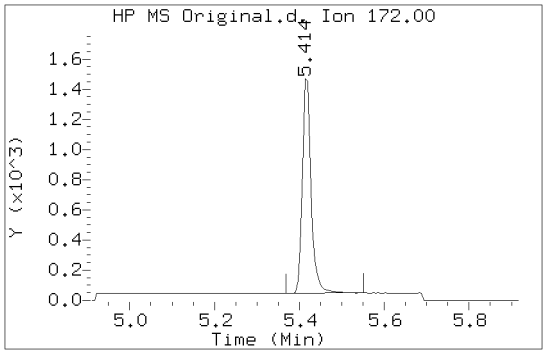

AFTER

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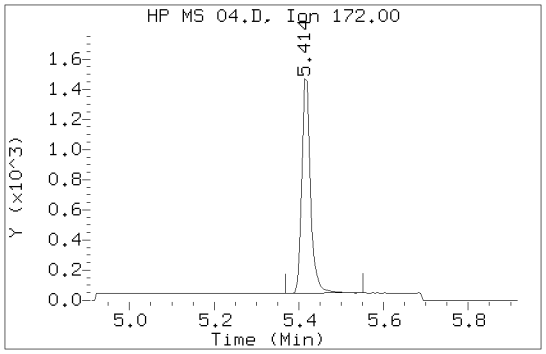
1422
18-Dec-2023
10:16
linh
pham



BEFORE

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AREA
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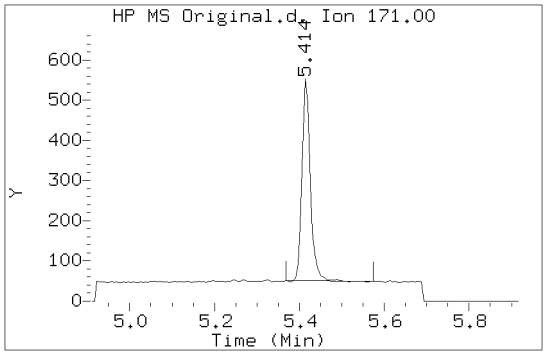
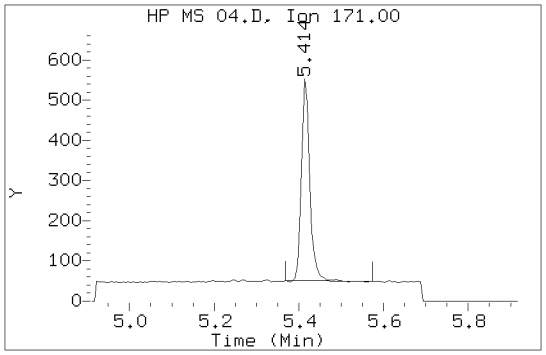
HEIGHT
502
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
673
HEIGHT
502
18-Dec-2023
10:16
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D Page 1
Report Date: 18-Dec-2023 10:17

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Lab Smp Id: PAHSIM-0.025 Client Smp ID: PAHSIM-0.025
Inj Date : 12-DEC-2023 14:18
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.025
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 13:58 Cal File: 04.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	20835	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.747	3.747	(0.853)	1606	0.02500	0.02795(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	12667	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	5723	0.02500	0.02837(M)
* 126 Phenanthrene-d10	188	7.498	7.498	(1.000)	26652	0.10000	(M)
* 182 Chrysene-d12	240	10.235	10.235	(1.000)	24444	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.070	9.070	(0.886)	6999	0.02500	0.02820(M)
* 198 Perylene-d12	264	12.218	12.218	(1.000)	25730	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.004)	6558	0.02500	0.02869(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	4276	0.02500	0.02797(M)
62 1-Methylnaphthalene	142	5.151	5.151	(1.173)	3948	0.02500	0.02768(M)
83 Acenaphthylene	152	5.910	5.910	(0.976)	6461	0.02500	0.02790(M)
88 Acenaphthene	154	6.080	6.080	(1.004)	4156	0.02500	0.02846(M)
98 Fluorene	166	6.588	6.588	(1.087)	5027	0.02500	0.02800
92 Dibenzofuran	168	6.717	6.717	(1.109)	2602	0.02500	0.02748(M)
128 Phenanthrene	178	7.517	7.517	(1.002)	8192	0.02500	0.02808(M)
130 Anthracene	178	7.566	7.566	(1.009)	8121	0.02500	0.02794(M)
149 Fluoranthene	202	8.674	8.674	(1.157)	9509	0.02500	0.02740(M)
155 Pyrene	202	8.893	8.893	(0.869)	9943	0.02500	0.02798(M)

181 Benzo(a)Anthracene	228	10.221	10.221 (0.999)	9234	0.02500	0.02786(M)
183 Chrysene	228	10.265	10.265 (1.003)	10622	0.02500	0.02875(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.669	11.669	(0.955)	9331	0.02500	0.02921
195 Benzo(k)fluoranthene	252	11.712	11.712	(0.959)	10238	0.02500	0.02649(M)
197 Benzo(a)pyrene	252	12.131	12.131	(0.993)	8585	0.02500	0.02773(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.738	(1.124)	10312	0.02500	0.02784(M)
210 Dibenzo(a,h)anthracene	278	13.790	13.790	(1.129)	8280	0.02500	0.02691(QM)
212 Benzo(g,h,i)perylene	276	14.092	14.092	(1.153)	8760	0.02500	0.02648(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D

Date : 12-DEC-2023 14:18

Client ID: PAHSIM-0.025

Instrument: SV6.i

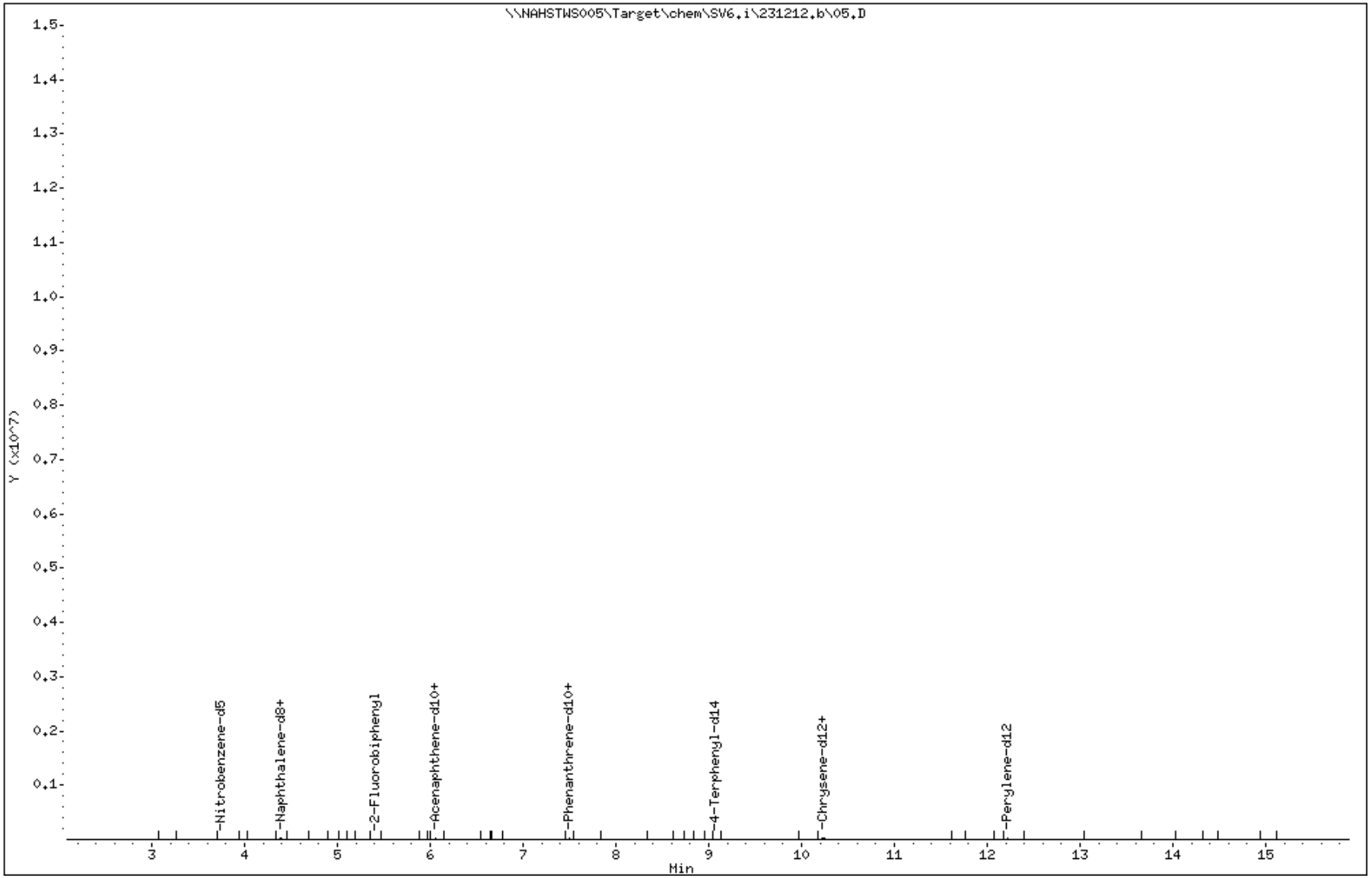
Sample Info: PAHSIM-0.025

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



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Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Naphthalene-d8 (1146-65-2)

BEFORE
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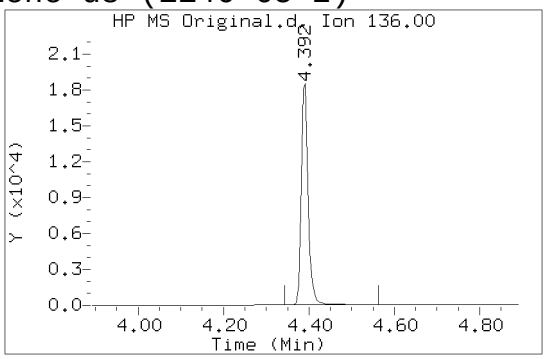
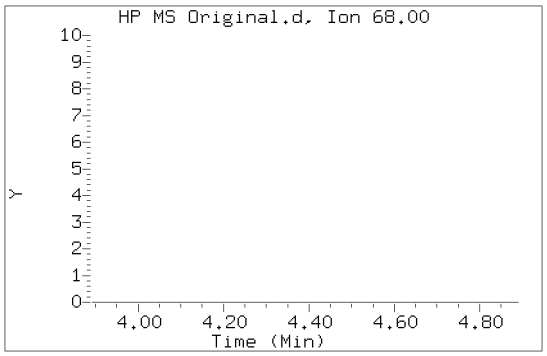
136
AREA
20835
HEIGHT
18471
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



Reason Code:

AFTER
MASS
136
AREA
20835
HEIGHT
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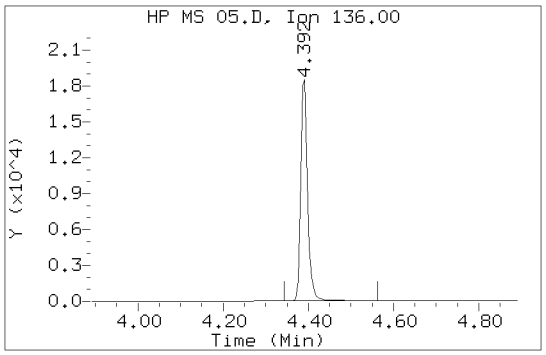
18-Dec-2023
10:16
linh
pham



AFTER
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AREA
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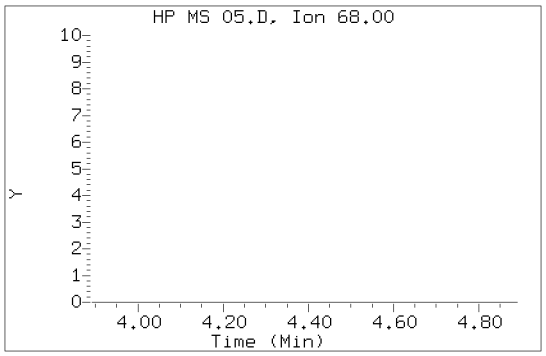
HEIGHT
0
18-Dec-2023
10:16
linh
pham



Dibenzo(a,h)anthracene (53-70-3)

BEFORE
MASS
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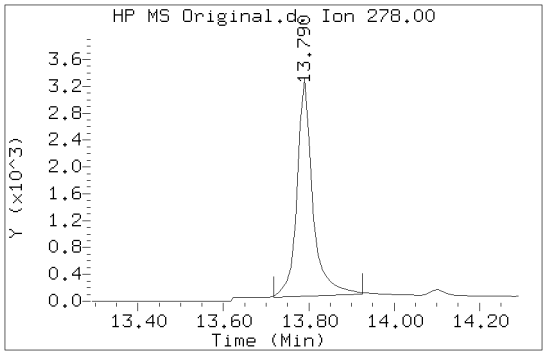
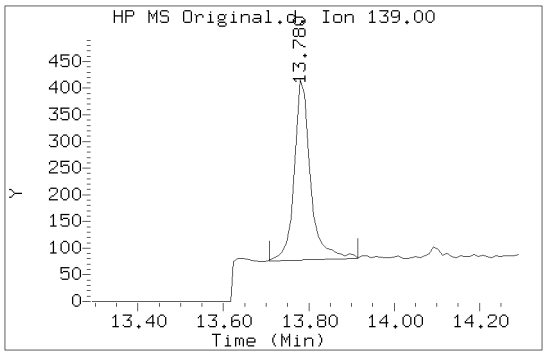
AREA
8280
HEIGHT
3237
18-Dec-2023
10:16
linh
pham

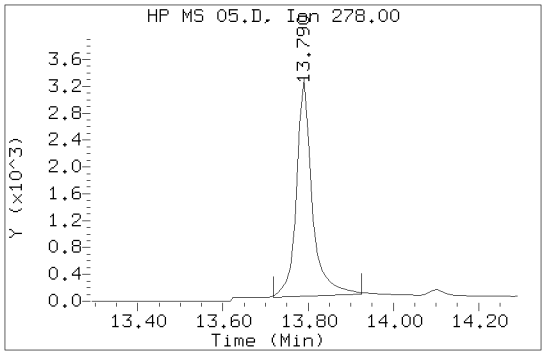


BEFORE
MASS
139
AREA
892
HEIGHT
338
18-Dec-2023
10:16
linh
pham

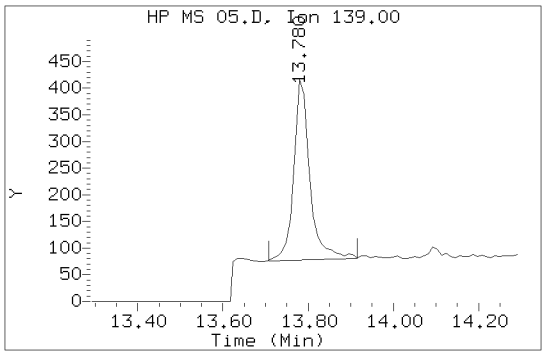


Reason Code:

AFTER
MASS
278
AREA
8280
HEIGHT
3237
18-Dec-2023
10:16
linh
pham



AFTER
MASS
139
AREA
892
HEIGHT
338
18-Dec-2023
10:16
linh
pham



Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

BEFORE

MASS
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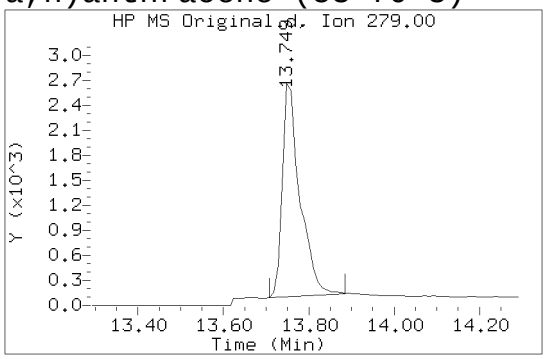
AREA
7371
HEIGHT
2561
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
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HEIGHT
2561
18-Dec-2023
10:16
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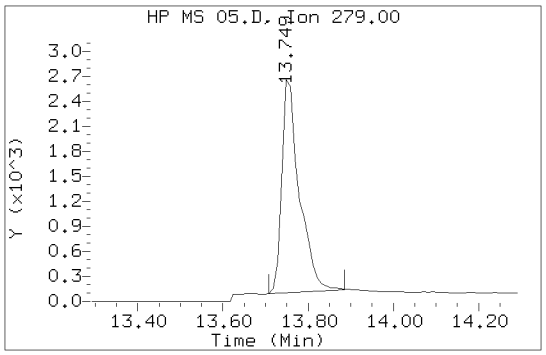
pham

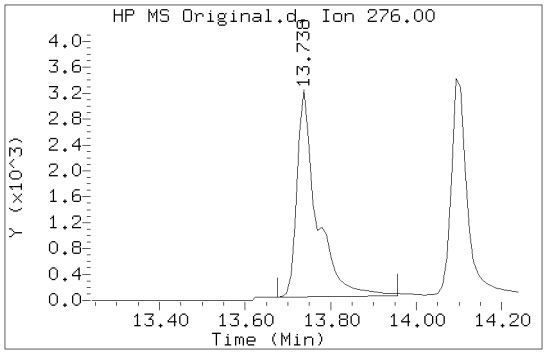


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

BEFORE

MASS
276
AREA
10312
HEIGHT
3199
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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HEIGHT
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18-Dec-2023
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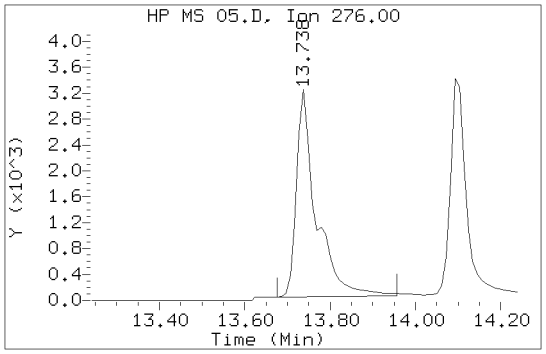
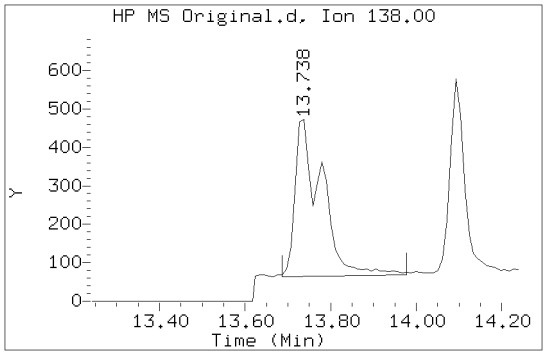


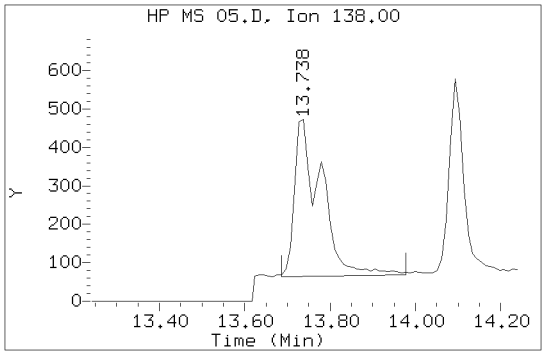
BEFORE

MASS
138
AREA
1777
HEIGHT
408
18-Dec-2023
10:16
linh
pham



AFTER

MASS
138
AREA
1777
HEIGHT
408
18-Dec-2023
10:16
linh
pham



BEFORE

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AREA
2831
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817
18-Dec-2023
10:16
linh
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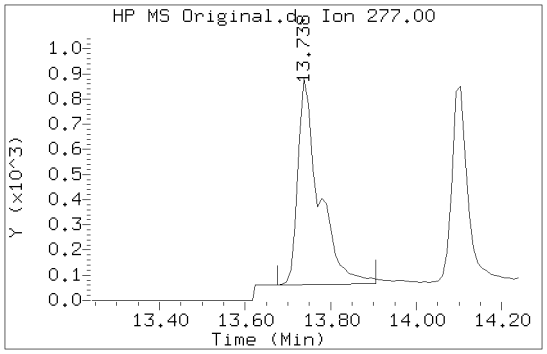

AFTER

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817
18-Dec-2023
10:16
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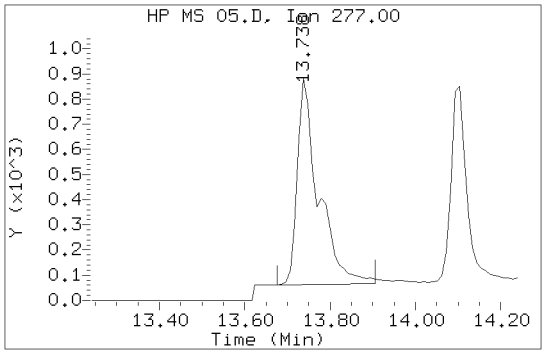
pham



Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Benzo(a)pyrene (50-32-8)

Reason Code:

BEFORE

MASS
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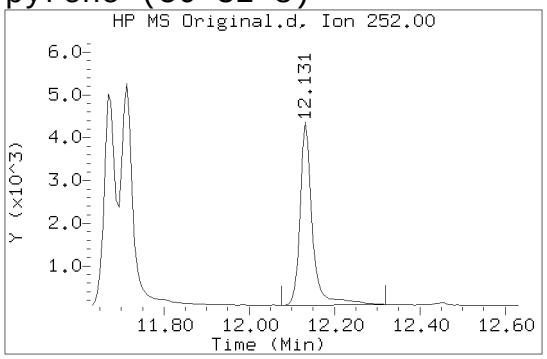
AREA
8585
HEIGHT
4276
18-Dec-2023
10:16
linh
pham



AFTER

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18-Dec-2023
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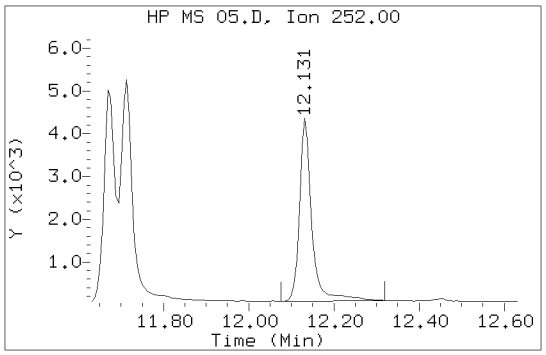

BEFORE

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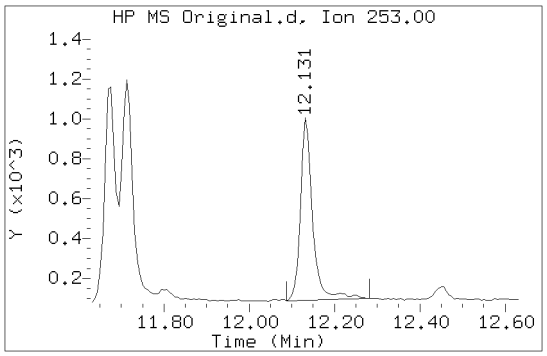
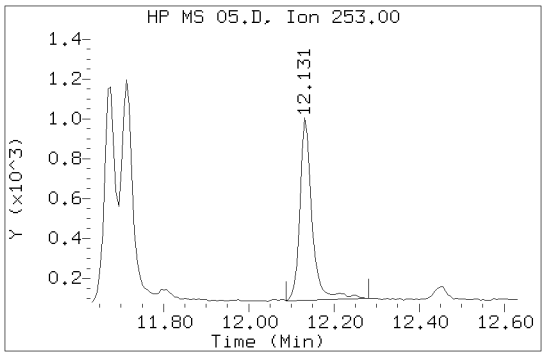
253
AREA
1832
HEIGHT
915
18-Dec-2023
10:16
linh
pham



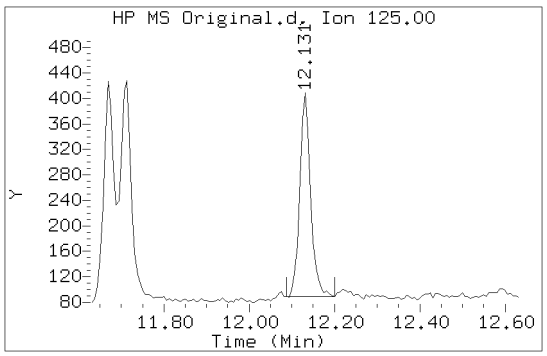
AFTER

MASS
253
AREA
1832
HEIGHT
915
18-Dec-2023
10:16
linh
pham



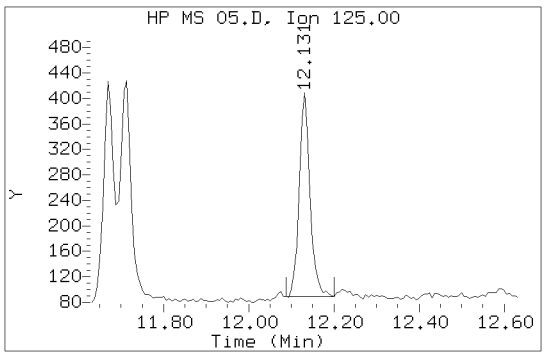
BEFORE

MASS
125
AREA
572
HEIGHT
320
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
572
HEIGHT
320
18-Dec-2023
10:16
linh
pham

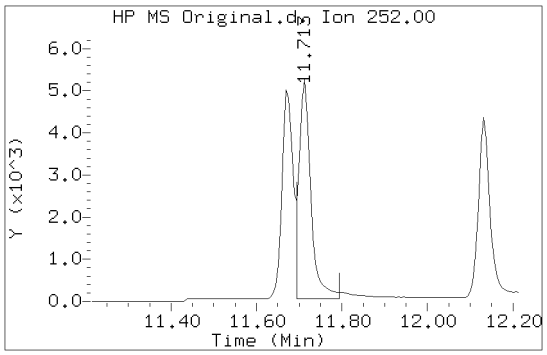


Benzo(k)fluoranthene (207-08-9)

Reason Code:

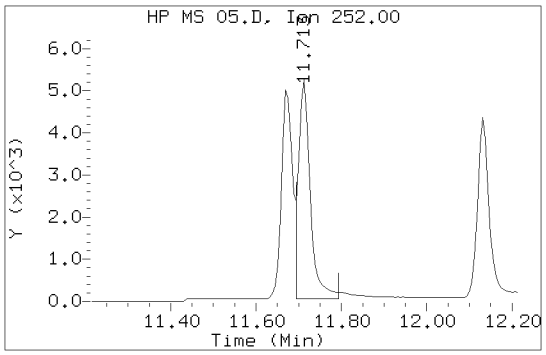
BEFORE

MASS
252
AREA
10238
HEIGHT
5202
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
10238
HEIGHT
5202
18-Dec-2023
10:16
linh
pham



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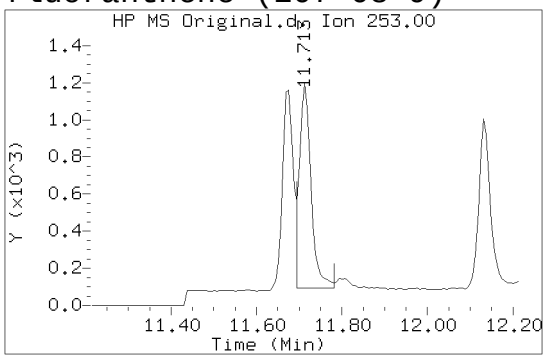
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

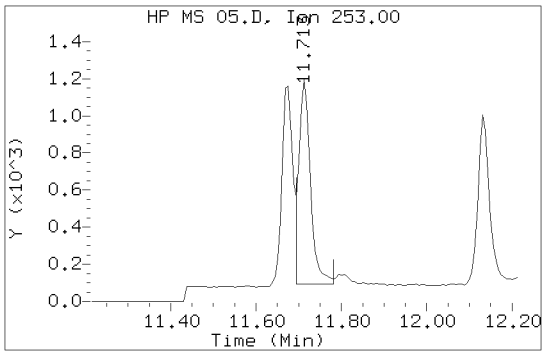
Benzo(k)fluoranthene (207-08-9)

Reason Code:

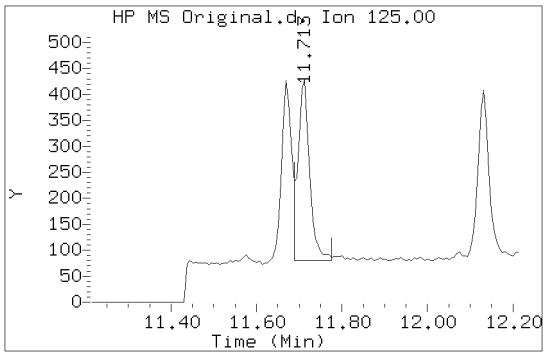
BEFORE
MASS
253
AREA
2145
HEIGHT
1103
18-Dec-2023
10:16
linh
pham



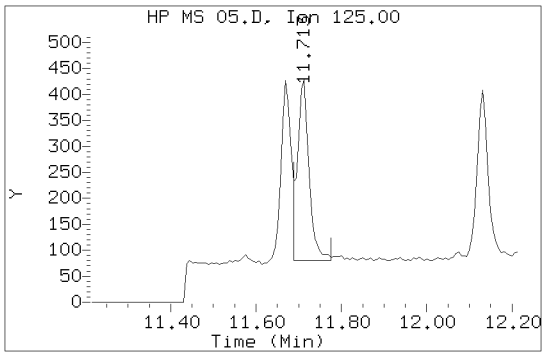
AFTER
MASS
253
AREA
2145
HEIGHT
1103
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
125
AREA
691
HEIGHT
348
18-Dec-2023
10:16
linh
pham



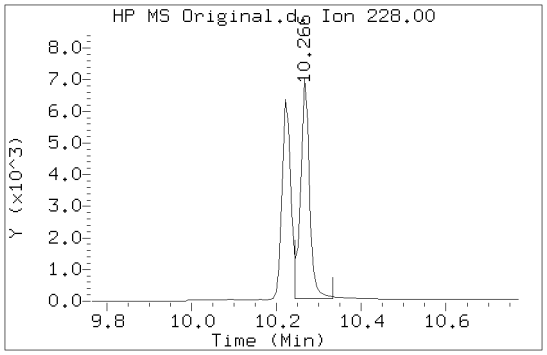
AFTER
MASS
125
AREA
691
HEIGHT
348
18-Dec-2023
10:16
linh
pham



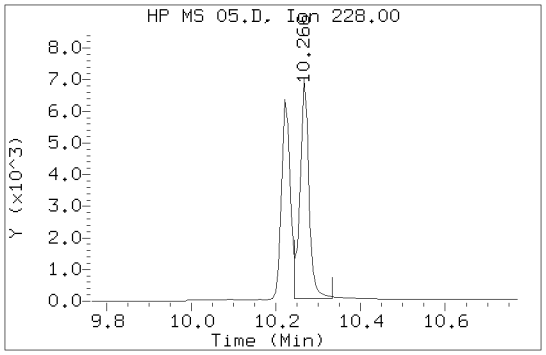
Chrysene (218-01-9)

Reason Code:

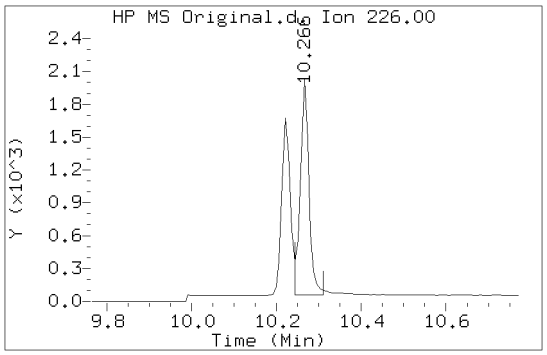
BEFORE
MASS
228
AREA
10622
HEIGHT
6953
18-Dec-2023
10:16
linh
pham



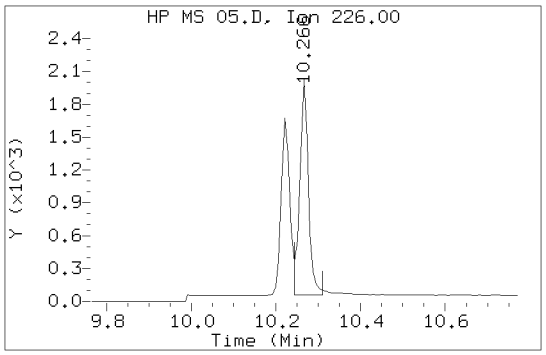
AFTER
MASS
228
AREA
10622
HEIGHT
6953
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
226
AREA
2863
HEIGHT
1964
18-Dec-2023
10:16
linh
pham



AFTER
MASS
226
AREA
2863
HEIGHT
1964
18-Dec-2023
10:16
linh
pham



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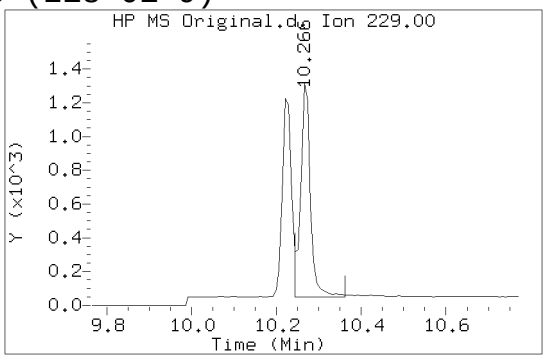
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Chrysene (218-01-9)

Reason Code:

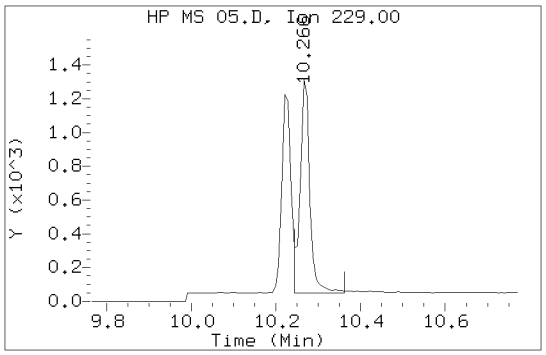
BEFORE

MASS
229
AREA
2102
HEIGHT
1262
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
2102
HEIGHT
1262
18-Dec-2023
10:16
linh
pham

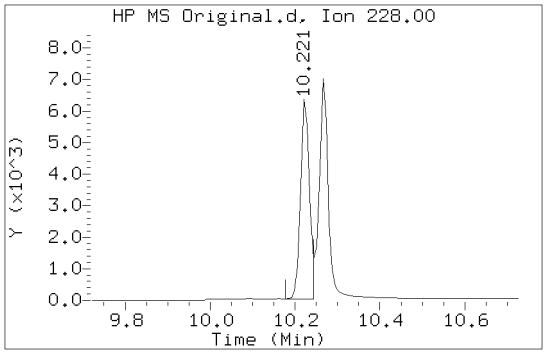


Benzo(a)Anthracene (56-55-3)

Reason Code:

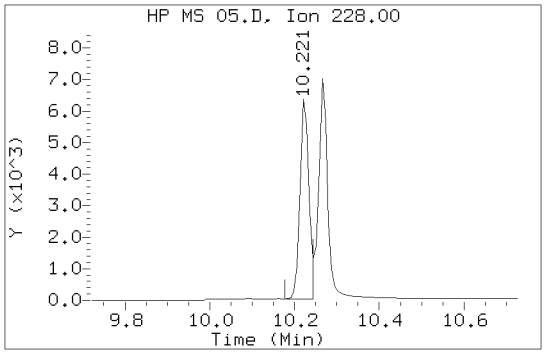
BEFORE

MASS
228
AREA
9234
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



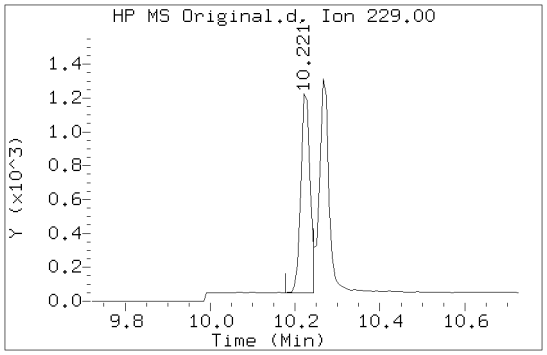
AFTER

MASS
228
AREA
9234
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



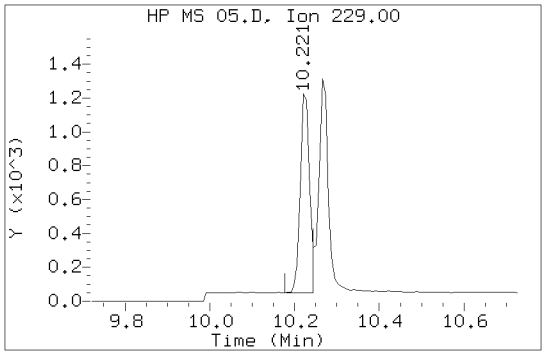
BEFORE

MASS
229
AREA
1784
HEIGHT
1176
18-Dec-2023
10:16
linh
pham



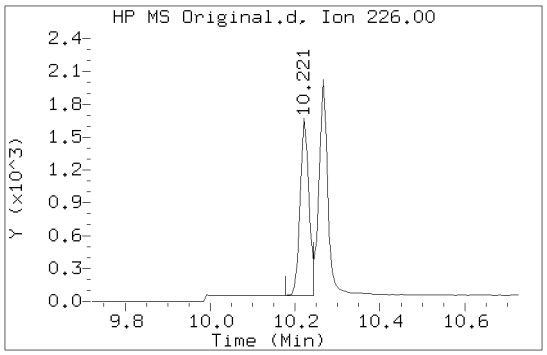
AFTER

MASS
229
AREA
1784
HEIGHT
1176
18-Dec-2023
10:16
linh
pham



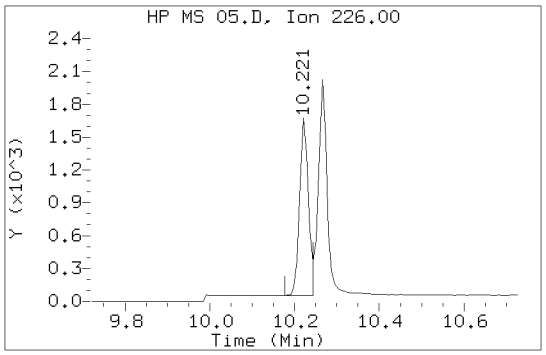
BEFORE

MASS
226
AREA
2346
HEIGHT
1623
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
2346
HEIGHT
1623
18-Dec-2023
10:16
linh
pham



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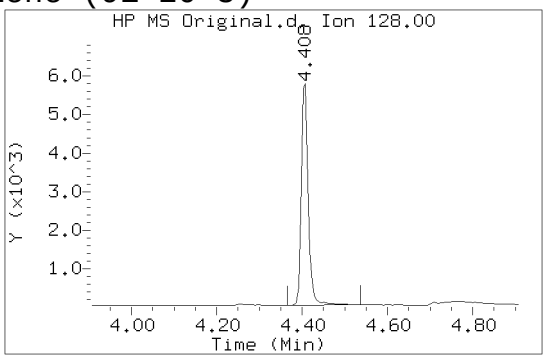
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

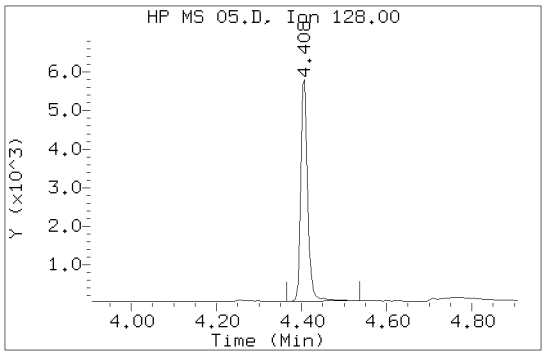
Naphthalene (91-20-3)

Reason Code:

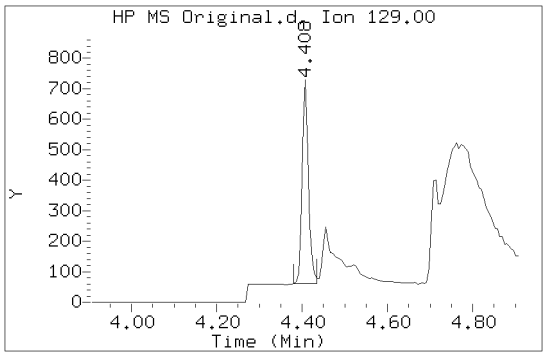
BEFORE
MASS
128
AREA
6558
HEIGHT
5742
18-Dec-2023
10:16
linh
pham



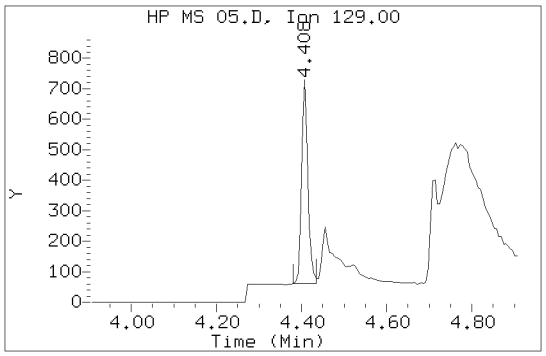
AFTER
MASS
128
AREA
6558
HEIGHT
5742
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
129
AREA
698
HEIGHT
668
18-Dec-2023
10:16
linh
pham



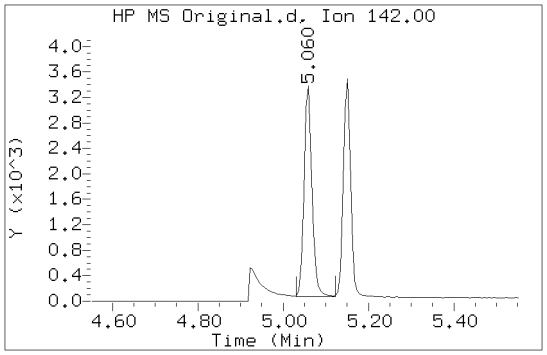
AFTER
MASS
129
AREA
698
HEIGHT
668
18-Dec-2023
10:16
linh
pham



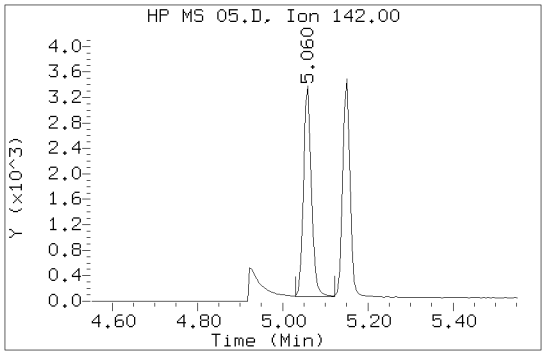
2-Methylnaphthalene (91-57-6)

Reason Code:

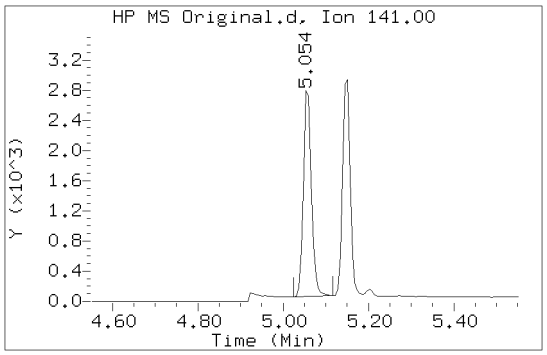
BEFORE
MASS
142
AREA
4276
HEIGHT
3311
18-Dec-2023
10:16
linh
pham



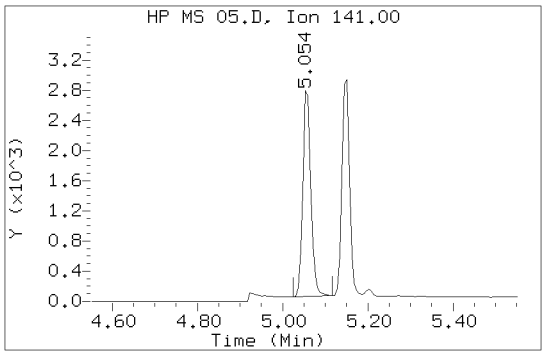
AFTER
MASS
142
AREA
4276
HEIGHT
3311
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
141
AREA
3595
HEIGHT
2730
18-Dec-2023
10:16
linh
pham



AFTER
MASS
141
AREA
3595
HEIGHT
2730
18-Dec-2023
10:16
linh
pham



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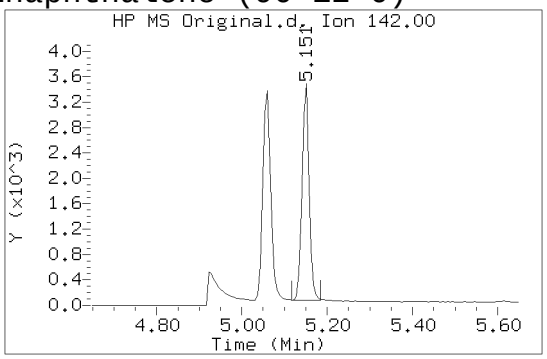
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

1-Methylnaphthalene (90-12-0)

Reason Code:

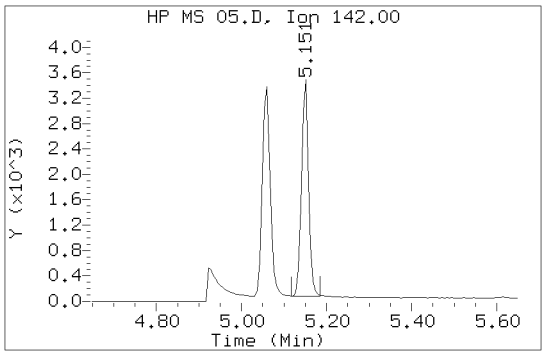
BEFORE

MASS
142
AREA
3948
HEIGHT
3408
18-Dec-2023
10:16
linh
pham



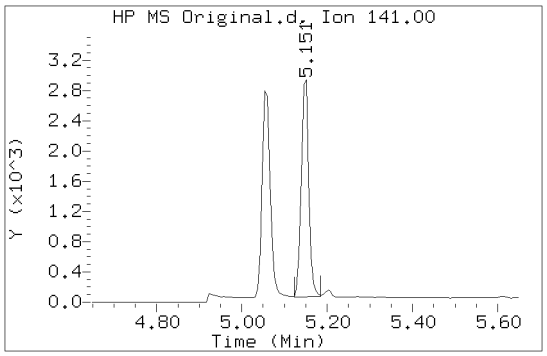
AFTER

MASS
142
AREA
3948
HEIGHT
3408
18-Dec-2023
10:16
linh
pham



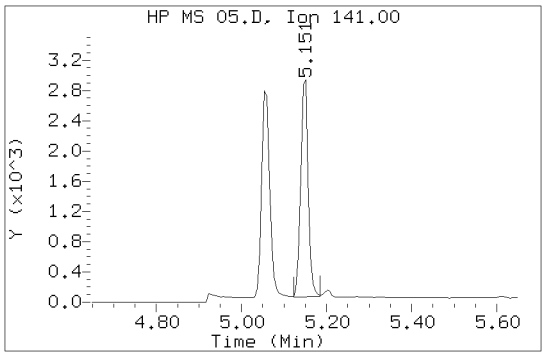
BEFORE

MASS
141
AREA
3545
HEIGHT
2870
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
3545
HEIGHT
2870
18-Dec-2023
10:16
linh
pham

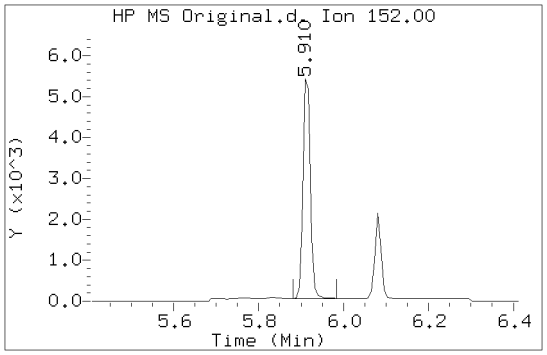


Acenaphthylene (208-96-8)

Reason Code:

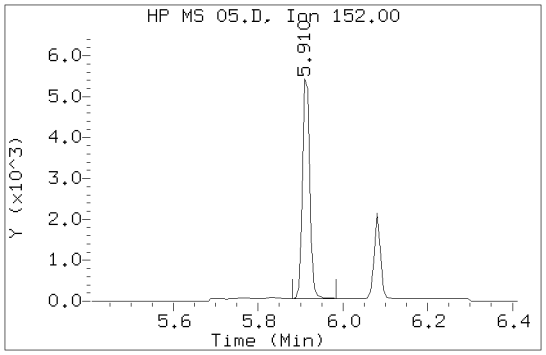
BEFORE

MASS
152
AREA
6461
HEIGHT
5373
18-Dec-2023
10:16
linh
pham



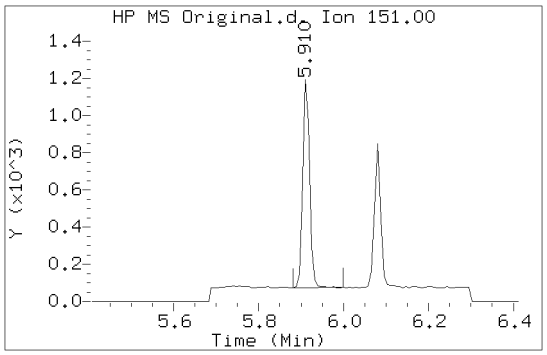
AFTER

MASS
152
AREA
6461
HEIGHT
5373
18-Dec-2023
10:16
linh
pham



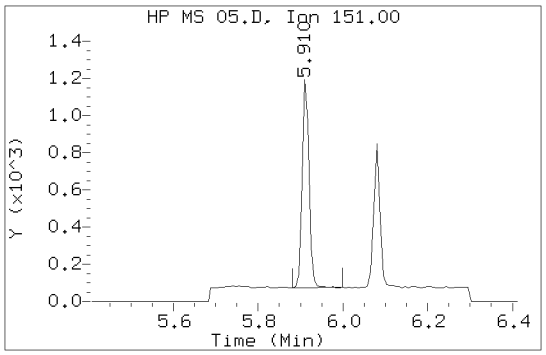
BEFORE

MASS
151
AREA
1246
HEIGHT
1118
18-Dec-2023
10:16
linh
pham



AFTER

MASS
151
AREA
1246
HEIGHT
1118
18-Dec-2023
10:16
linh
pham



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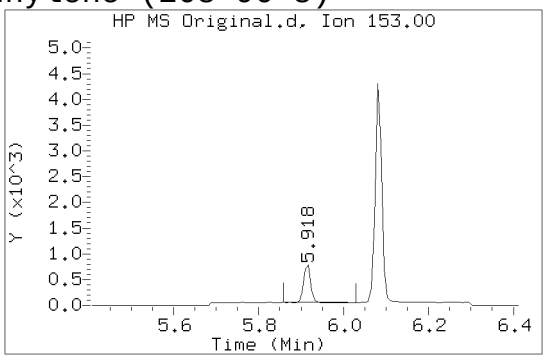
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Acenaphthylene (208-96-8)

Reason Code:

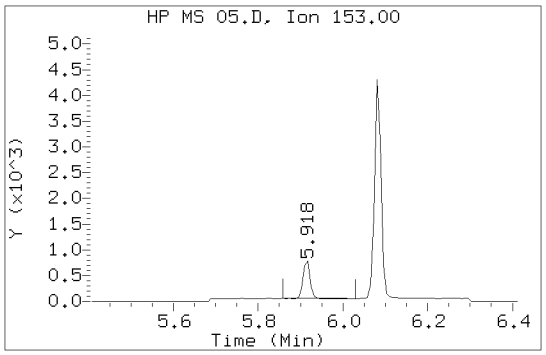
BEFORE

MASS
153
AREA
835
HEIGHT
723
18-Dec-2023
10:16
linh
pham



AFTER

MASS
153
AREA
835
HEIGHT
723
18-Dec-2023
10:16
linh
pham

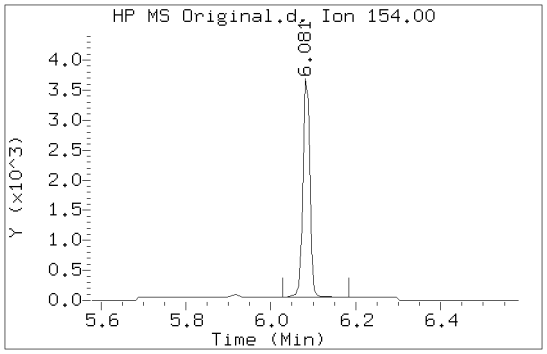


Acenaphthene (83-32-9)

Reason Code:

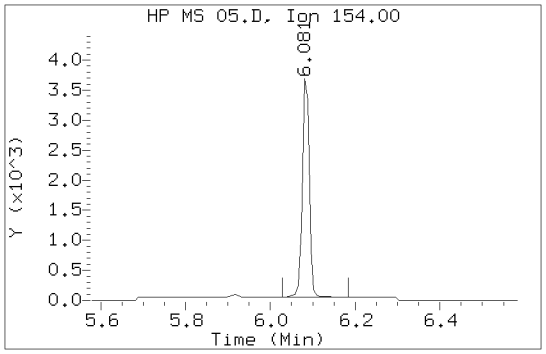
BEFORE

MASS
154
AREA
4156
HEIGHT
3636
18-Dec-2023
10:16
linh
pham



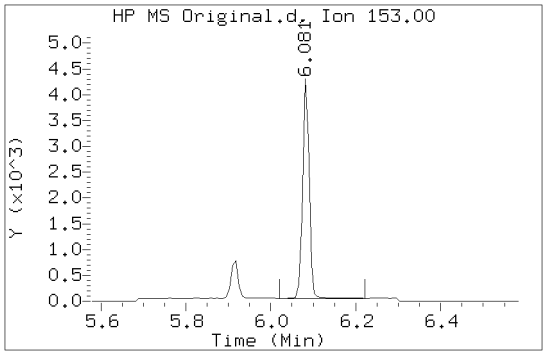
AFTER

MASS
154
AREA
4156
HEIGHT
3636
18-Dec-2023
10:16
linh
pham



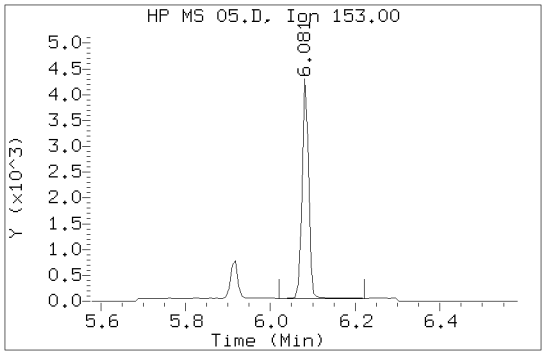
BEFORE

MASS
153
AREA
4479
HEIGHT
4250
18-Dec-2023
10:16
linh
pham



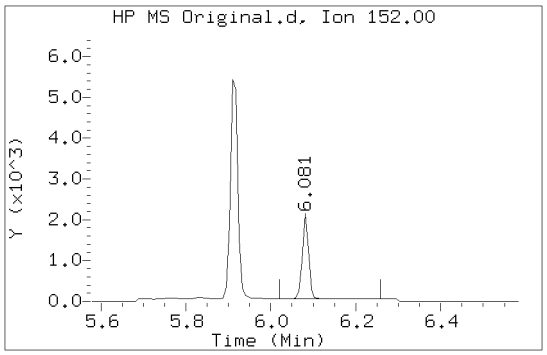
AFTER

MASS
153
AREA
4479
HEIGHT
4250
18-Dec-2023
10:16
linh
pham



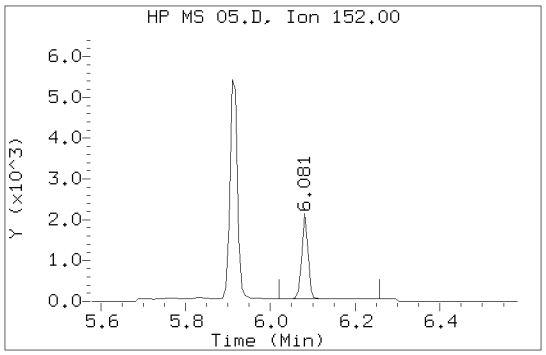
BEFORE

MASS
152
AREA
2082
HEIGHT
2088
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
2082
HEIGHT
2088
18-Dec-2023
10:16
linh
pham



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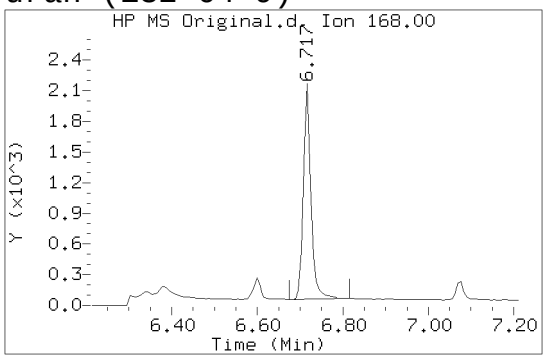
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Dibenzofuran (132-64-9)

Reason Code:

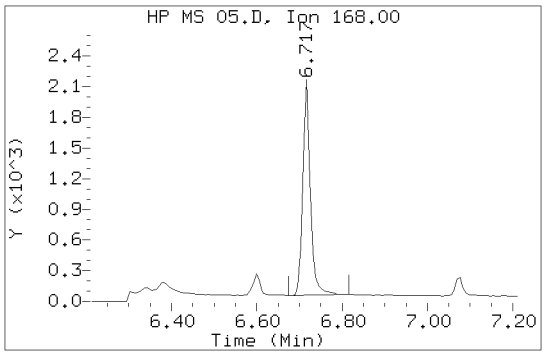
BEFORE

MASS
168
AREA
2602
HEIGHT
2107
18-Dec-2023
10:16
linh
pham



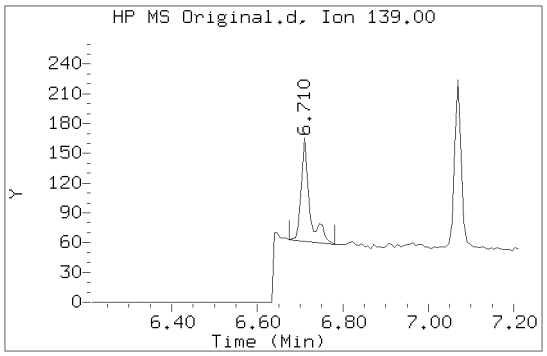
AFTER

MASS
168
AREA
2602
HEIGHT
2107
18-Dec-2023
10:16
linh
pham



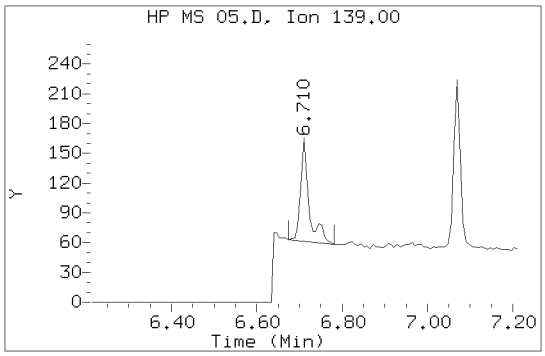
BEFORE

MASS
139
AREA
144
HEIGHT
104
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
144
HEIGHT
104
18-Dec-2023
10:16
linh
pham

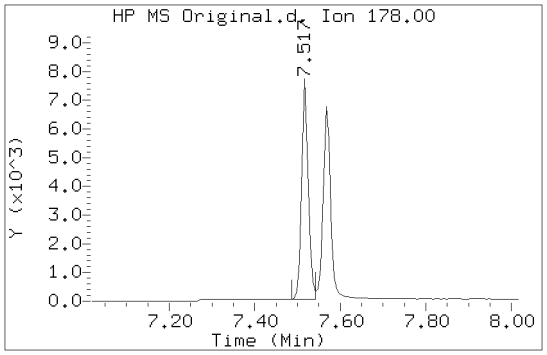


Phenanthrene (85-01-8)

Reason Code:

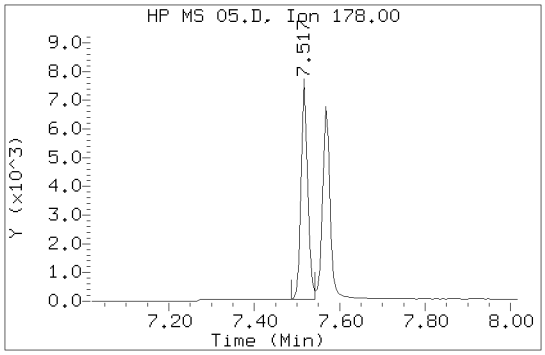
BEFORE

MASS
178
AREA
8192
HEIGHT
7668
18-Dec-2023
10:16
linh
pham



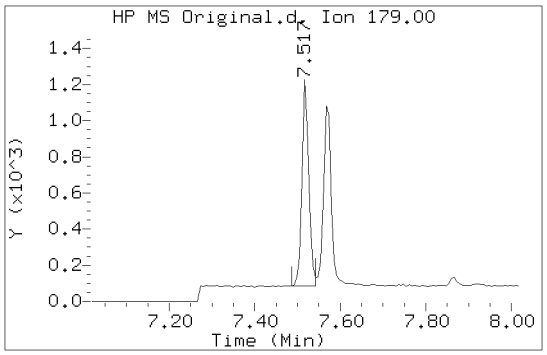
AFTER

MASS
178
AREA
8192
HEIGHT
7668
18-Dec-2023
10:16
linh
pham



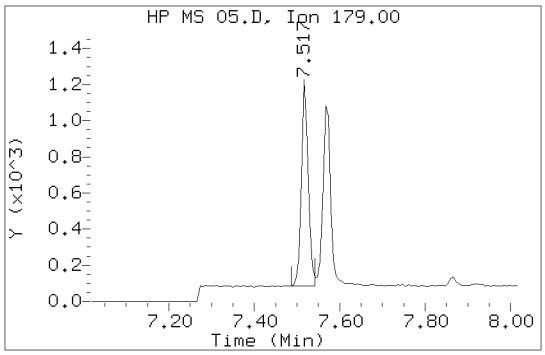
BEFORE

MASS
179
AREA
1254
HEIGHT
1141
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
1254
HEIGHT
1141
18-Dec-2023
10:16
linh
pham



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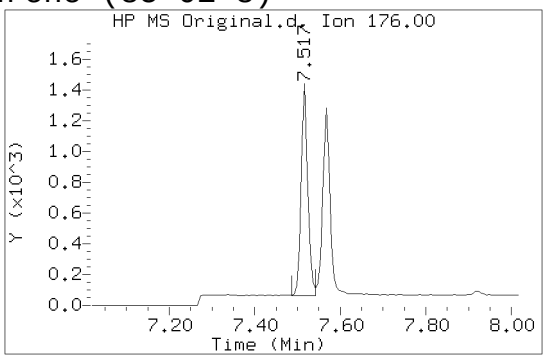
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Phenanthrene (85-01-8)

Reason Code:

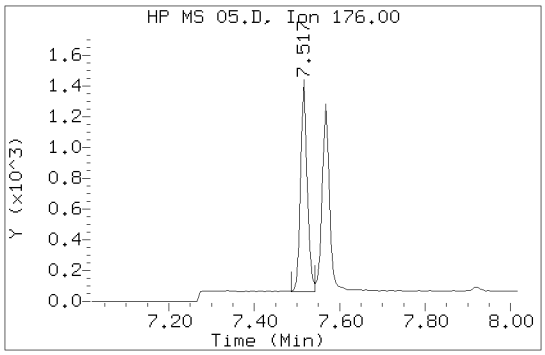
BEFORE

MASS
176
AREA
1487
HEIGHT
1376
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
1487
HEIGHT
1376
18-Dec-2023
10:16
linh
pham

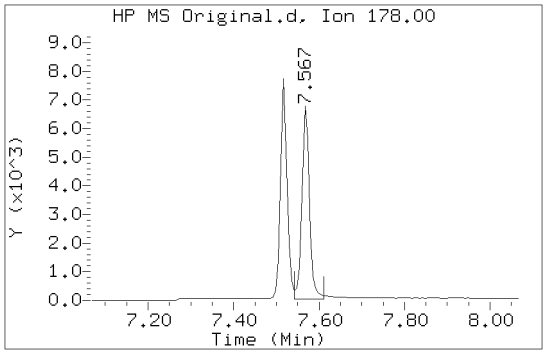


Anthracene (120-12-7)

Reason Code:

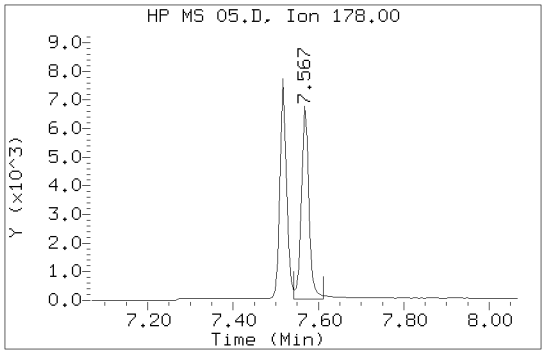
BEFORE

MASS
178
AREA
8121
HEIGHT
6745
18-Dec-2023
10:16
linh
pham



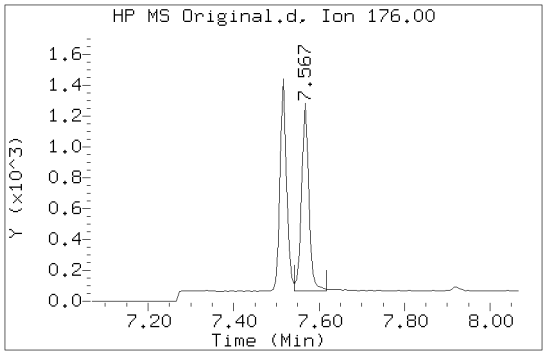
AFTER

MASS
178
AREA
8121
HEIGHT
6745
18-Dec-2023
10:16
linh
pham



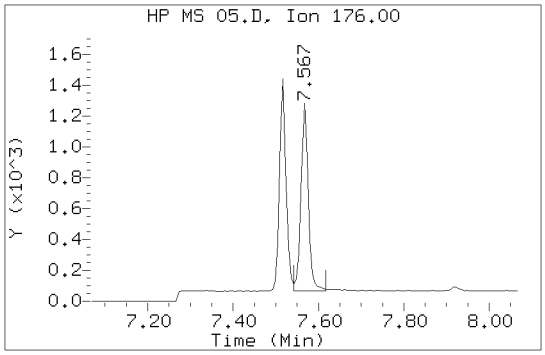
BEFORE

MASS
176
AREA
1417
HEIGHT
1217
18-Dec-2023
10:16
linh
pham



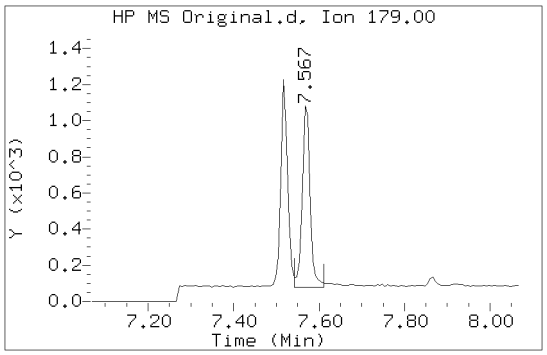
AFTER

MASS
176
AREA
1417
HEIGHT
1217
18-Dec-2023
10:16
linh
pham



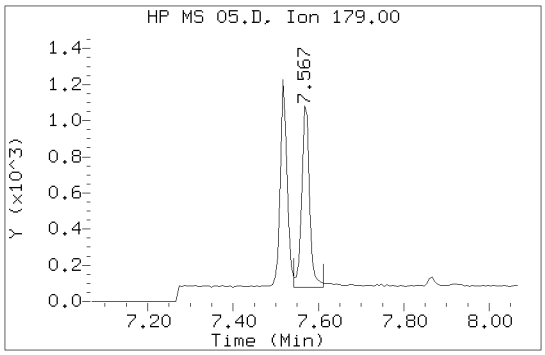
BEFORE

MASS
179
AREA
1273
HEIGHT
1003
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
1273
HEIGHT
1003
18-Dec-2023
10:16
linh
pham



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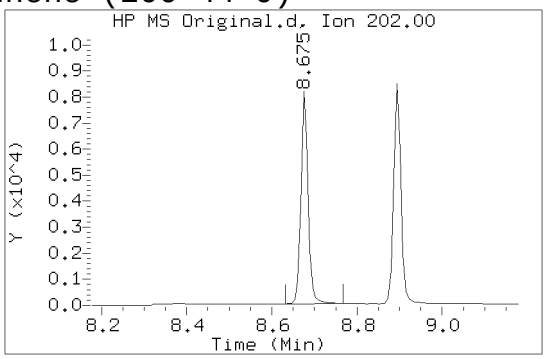
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

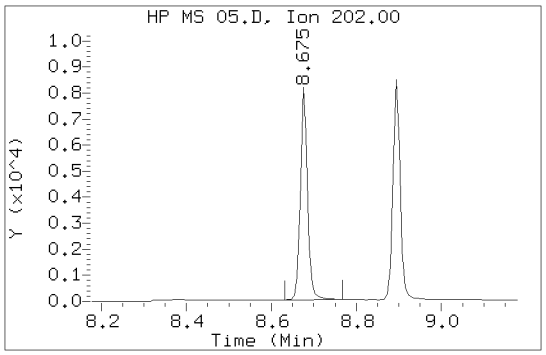
Fluoranthene (206-44-0)

Reason Code:

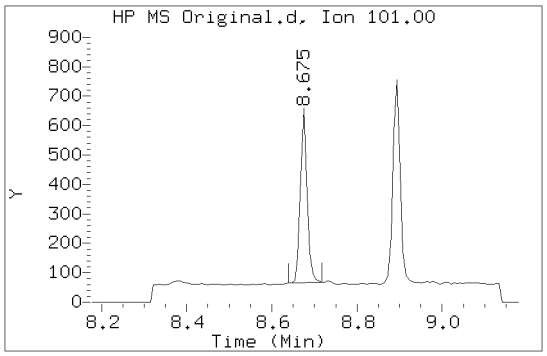
BEFORE
MASS
202
AREA
9509
HEIGHT
8151
18-Dec-2023
10:16
linh
pham



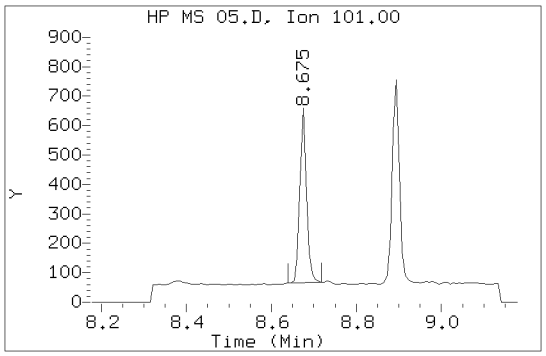
AFTER
MASS
202
AREA
9509
HEIGHT
8151
18-Dec-2023
10:16
linh
pham



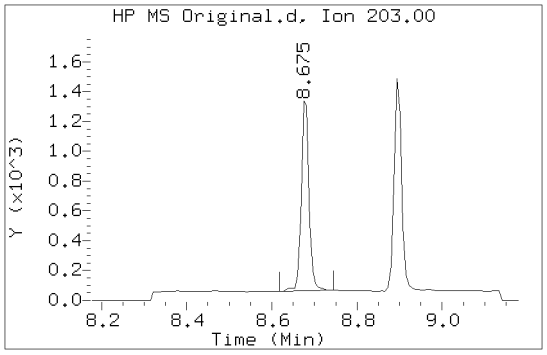
BEFORE
MASS
101
AREA
657
HEIGHT
593
18-Dec-2023
10:16
linh
pham



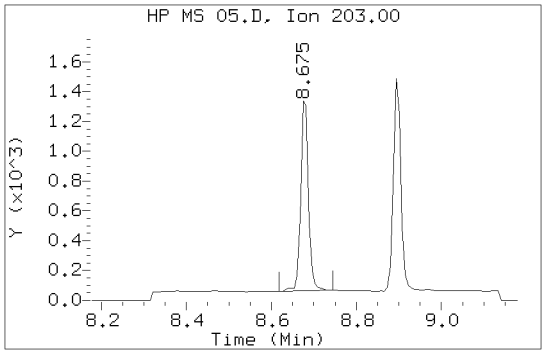
AFTER
MASS
101
AREA
657
HEIGHT
593
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
203
AREA
1635
HEIGHT
1275
18-Dec-2023
10:16
linh
pham



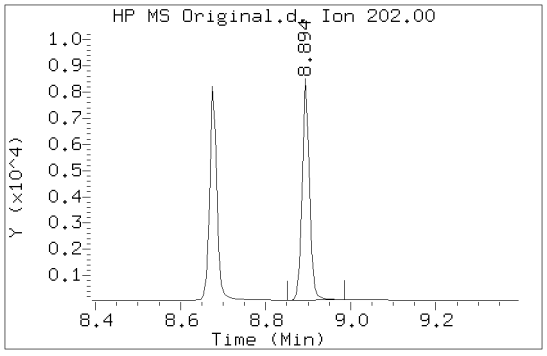
AFTER
MASS
203
AREA
1635
HEIGHT
1275
18-Dec-2023
10:16
linh
pham



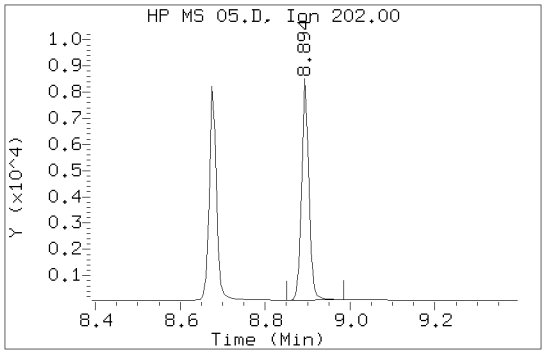
Pyrene (129-00-0)

Reason Code:

BEFORE
MASS
202
AREA
9943
HEIGHT
8445
18-Dec-2023
10:16
linh
pham



AFTER
MASS
202
AREA
9943
HEIGHT
8445
18-Dec-2023
10:16
linh
pham



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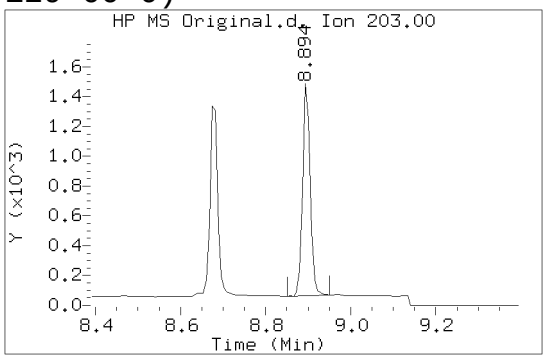
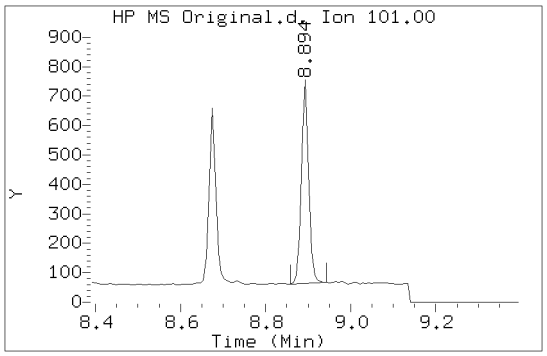
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Pyrene (129-00-0)

BEFORE
MASS
203
AREA
1740
HEIGHT
1422
18-Dec-2023
10:16
linh
pham

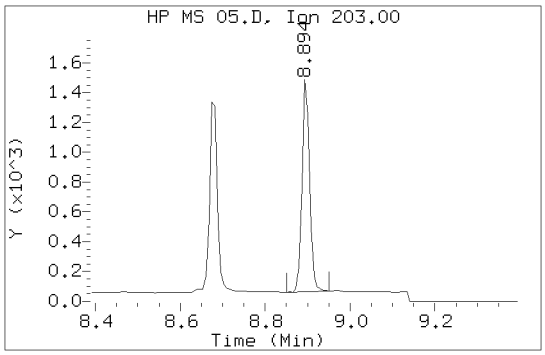


BEFORE
MASS
101
AREA
814
HEIGHT
690
18-Dec-2023
10:16
linh
pham

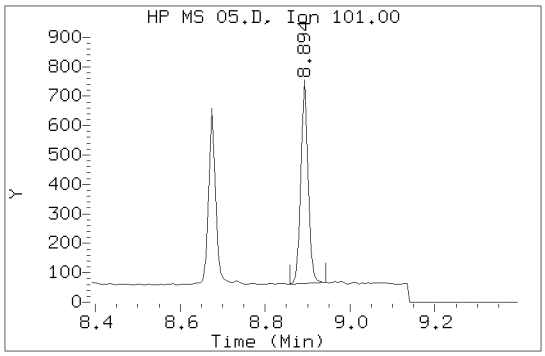


Reason Code:

AFTER
MASS
203
AREA
1740
HEIGHT
1422
18-Dec-2023
10:16
linh
pham

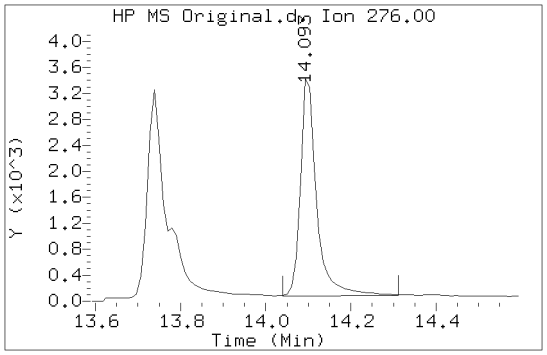


AFTER
MASS
101
AREA
814
HEIGHT
690
18-Dec-2023
10:16
linh
pham

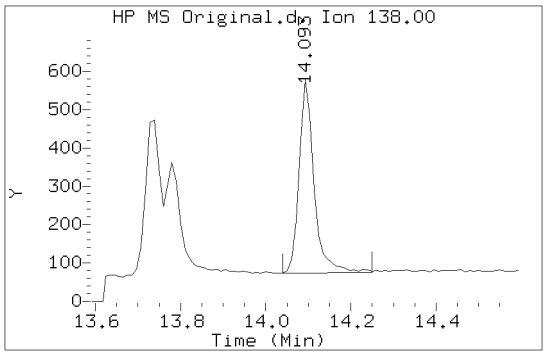


Benzo(g,h,i)perylene (191-24-2)

BEFORE
MASS
276
AREA
8760
HEIGHT
3340
18-Dec-2023
10:16
linh
pham

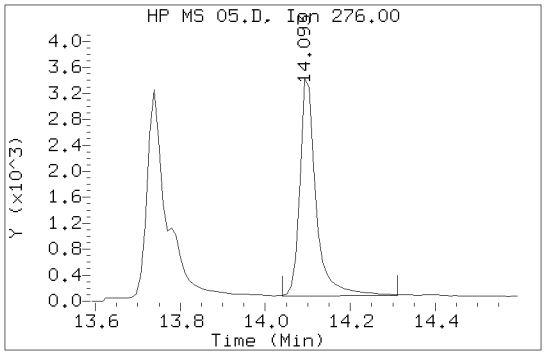


BEFORE
MASS
138
AREA
1218
HEIGHT
504
18-Dec-2023
10:16
linh
pham

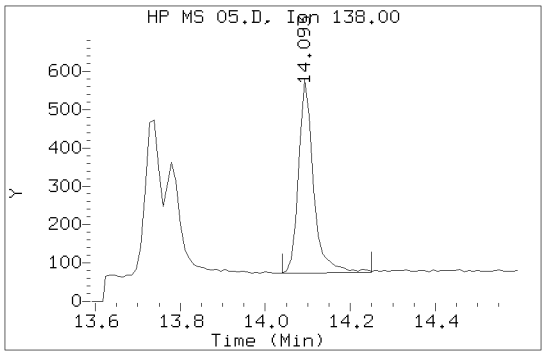


Reason Code:

AFTER
MASS
276
AREA
8760
HEIGHT
3340
18-Dec-2023
10:16
linh
pham



AFTER
MASS
138
AREA
1218
HEIGHT
504
18-Dec-2023
10:16
linh
pham



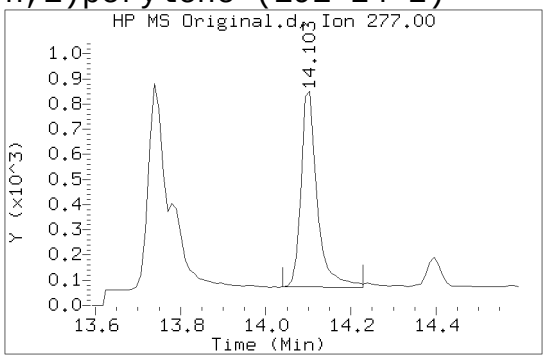
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

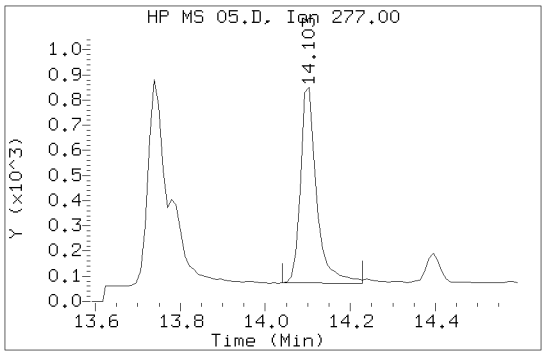
BEFORE

MASS
277
AREA
2041
HEIGHT
778
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
2041
HEIGHT
778
18-Dec-2023
10:16
linh
pham

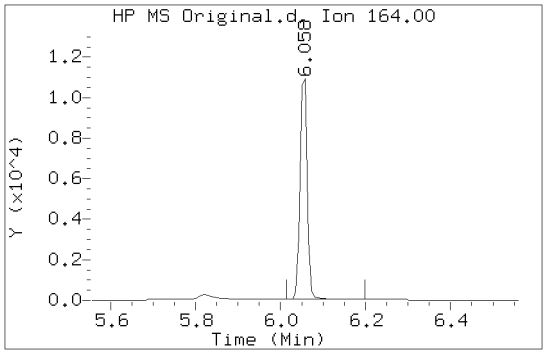


Acenaphthene-d10 (15067-26-2)

Reason Code:

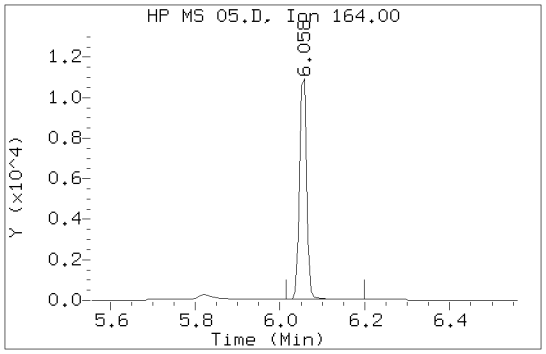
BEFORE

MASS
164
AREA
12667
HEIGHT
10873
18-Dec-2023
10:16
linh
pham



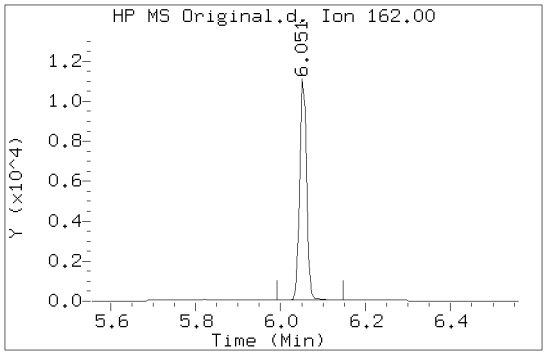
AFTER

MASS
164
AREA
12667
HEIGHT
10873
18-Dec-2023
10:16
linh
pham



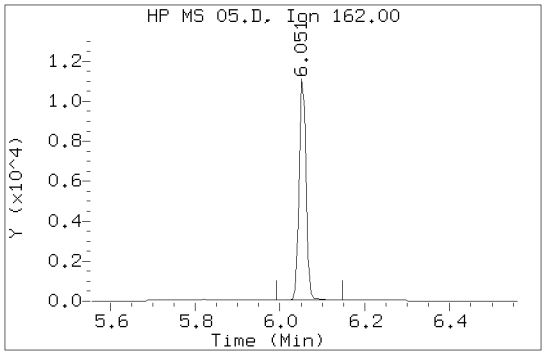
BEFORE

MASS
162
AREA
12338
HEIGHT
11056
18-Dec-2023
10:16
linh
pham



AFTER

MASS
162
AREA
12338
HEIGHT
11056
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
160
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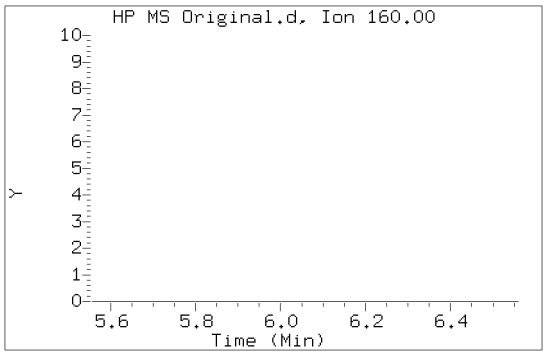
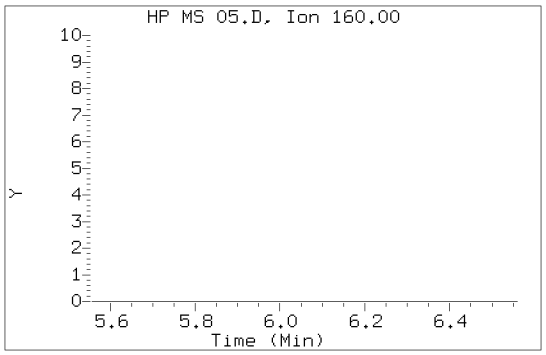
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



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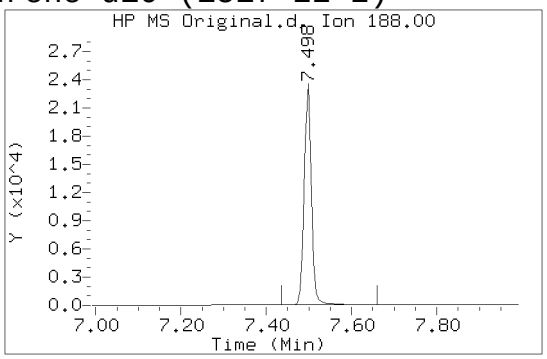
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Phenanthrene-d10 (1517-22-2)

Reason Code:

BEFORE

MASS
188
AREA
26652
HEIGHT
23524
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
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HEIGHT
23524
18-Dec-2023
10:16
linh
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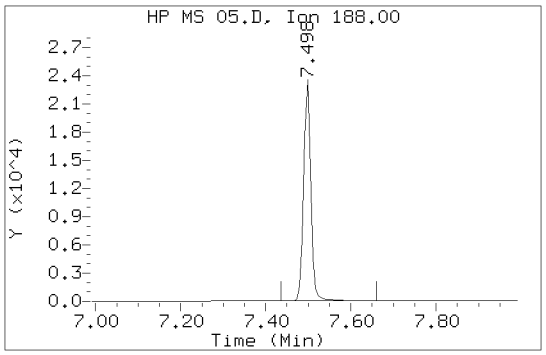
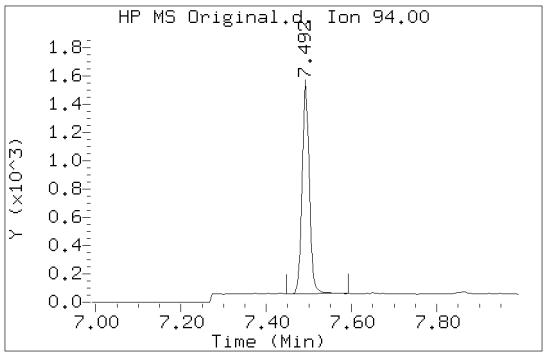


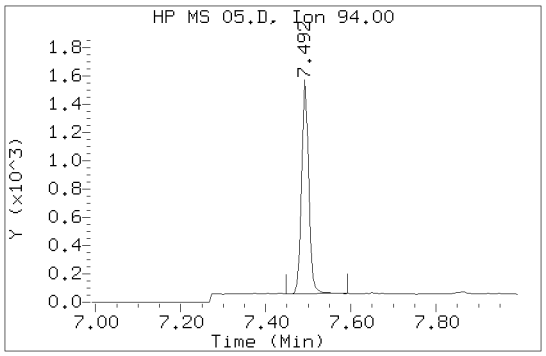
BEFORE

MASS
94
AREA
1693
HEIGHT
1511
18-Dec-2023
10:16
linh
pham



AFTER

MASS
94
AREA
1693
HEIGHT
1511
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
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AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
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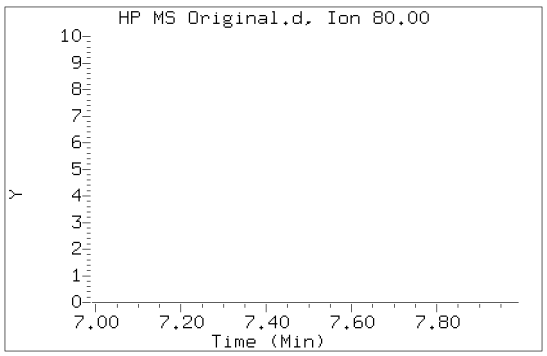

AFTER

MASS
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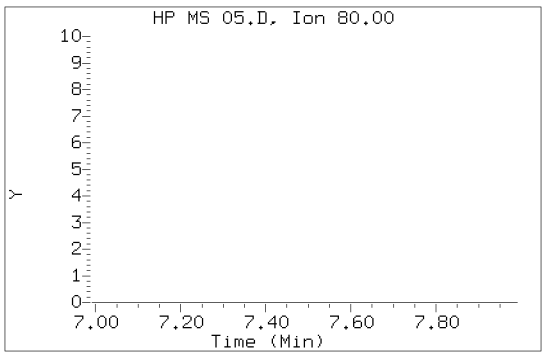
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

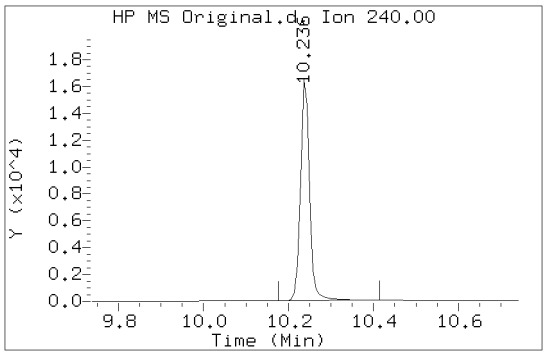


Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE

MASS
240
AREA
24444
HEIGHT
16452
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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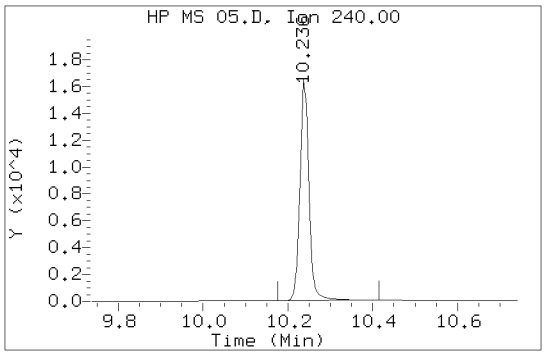
AREA
24444
HEIGHT
16452
18-Dec-2023
10:16
linh
pham



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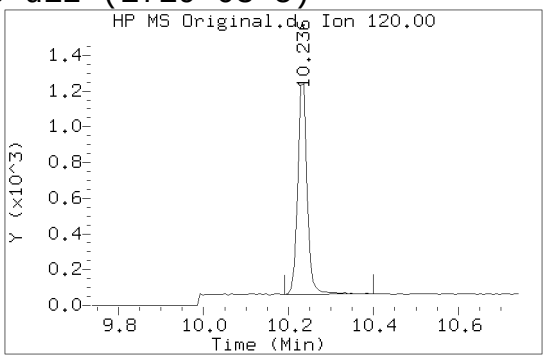
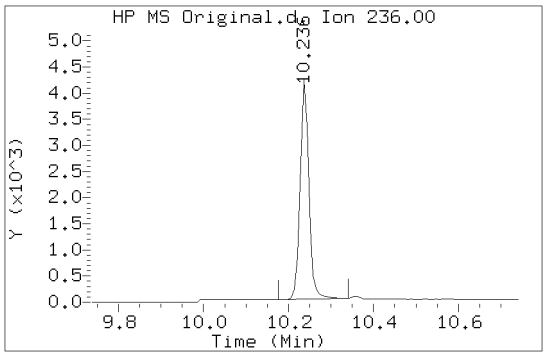
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Chrysene-d12 (1719-03-5)

BEFORE
MASS
120
AREA
1808
HEIGHT
1179
18-Dec-2023
10:16
linh
pham

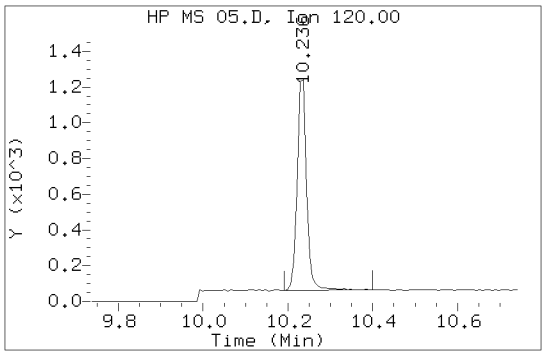


BEFORE
MASS
236
AREA
5922
HEIGHT
4190
18-Dec-2023
10:16
linh
pham

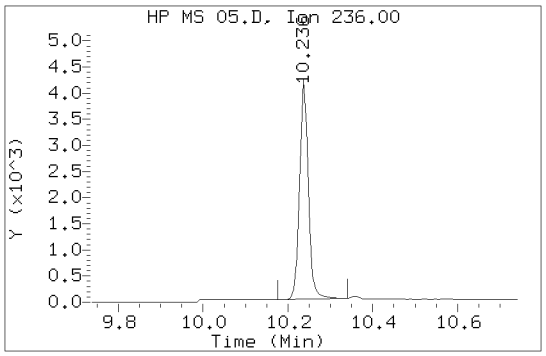


Reason Code:

AFTER
MASS
120
AREA
1808
HEIGHT
1179
18-Dec-2023
10:16
linh
pham

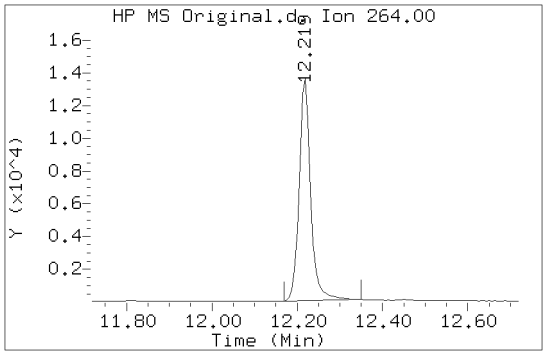


AFTER
MASS
236
AREA
5922
HEIGHT
4190
18-Dec-2023
10:16
linh
pham

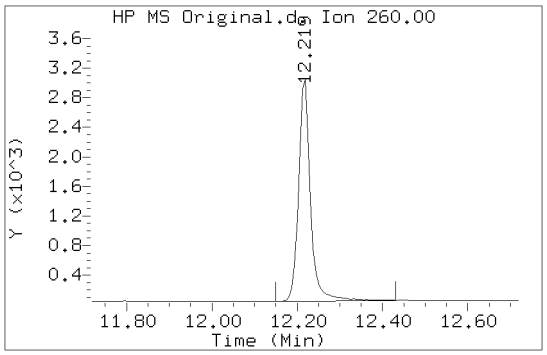


Perylene-d12 (1520-96-3)

BEFORE
MASS
264
AREA
25730
HEIGHT
13541
18-Dec-2023
10:16
linh
pham

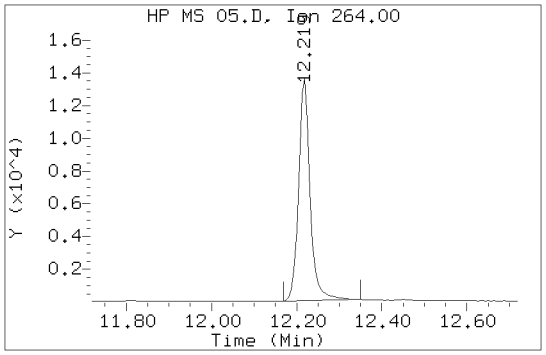


BEFORE
MASS
260
AREA
5834
HEIGHT
2991
18-Dec-2023
10:16
linh
pham

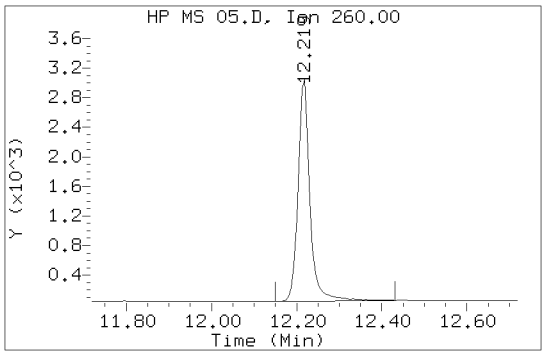


Reason Code:

AFTER
MASS
264
AREA
25730
HEIGHT
13541
18-Dec-2023
10:16
linh
pham



AFTER
MASS
260
AREA
5834
HEIGHT
2991
18-Dec-2023
10:16
linh
pham



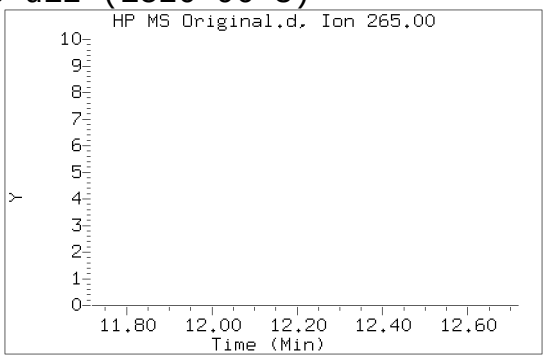
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

Perylene-d12 (1520-96-3)

Reason Code:

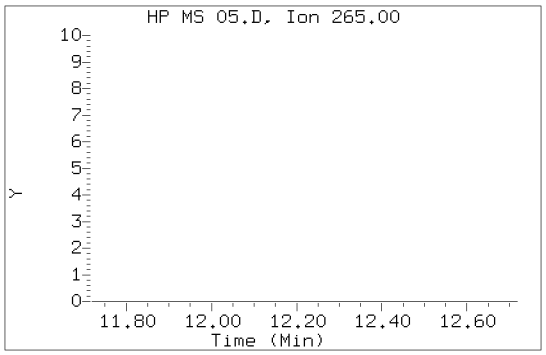
BEFORE

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

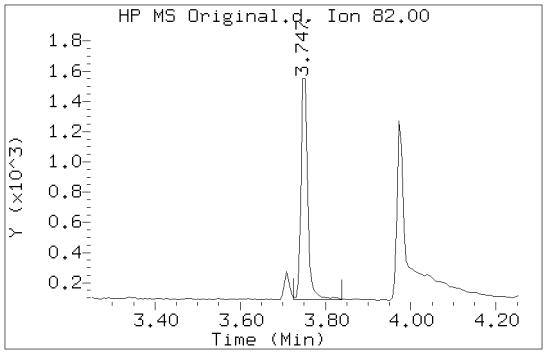


Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE

MASS
82
AREA
1606
HEIGHT
1464
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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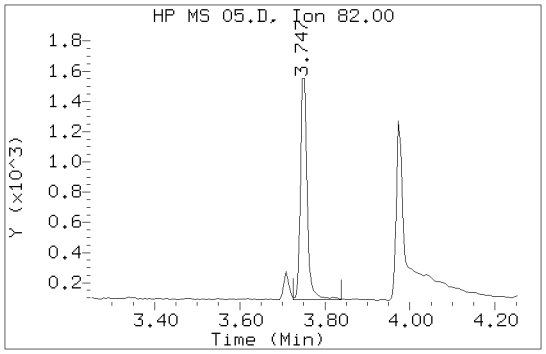
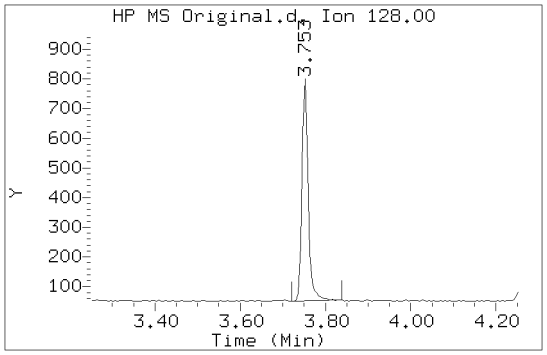
AREA
1606
HEIGHT
1464
18-Dec-2023
10:16
linh
pham



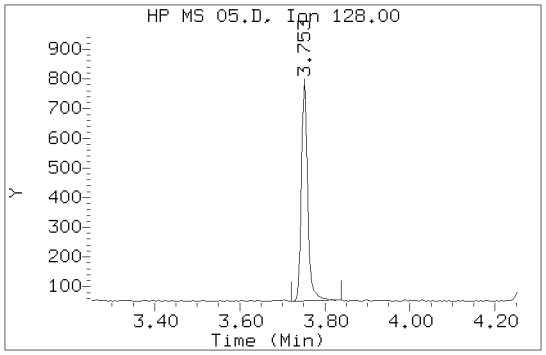
BEFORE

MASS
128
AREA
740
HEIGHT
747
18-Dec-2023
10:16
linh
pham



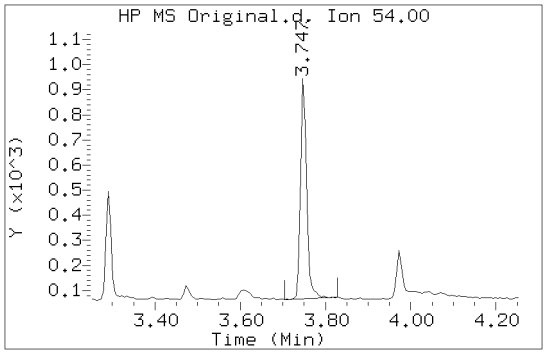
AFTER

MASS
128
AREA
740
HEIGHT
747
18-Dec-2023
10:16
linh
pham



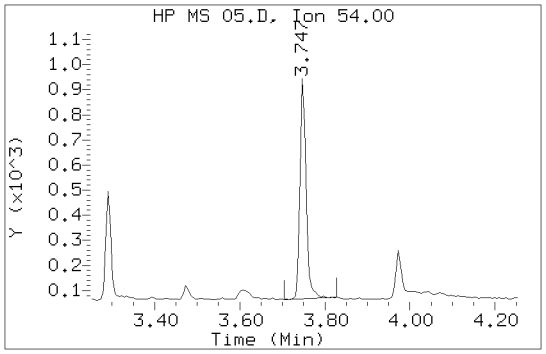
BEFORE

MASS
54
AREA
867
HEIGHT
877
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
867
HEIGHT
877
18-Dec-2023
10:16
linh
pham

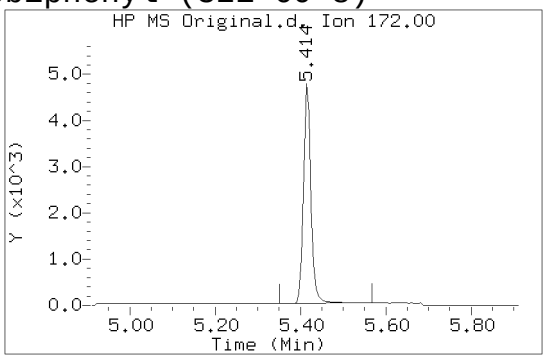


Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE
MASS
172
AREA
5723
HEIGHT
4747
18-Dec-2023
10:16
linh
pham



AFTER
MASS
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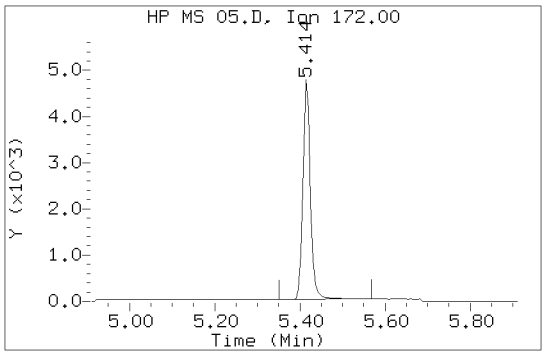
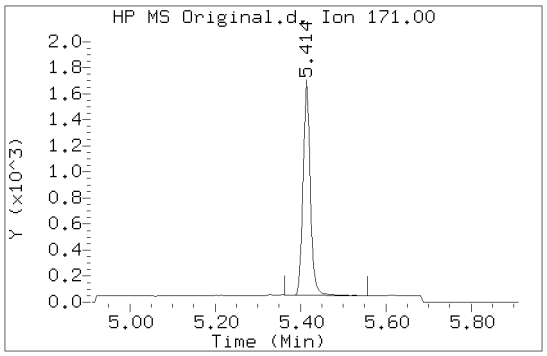
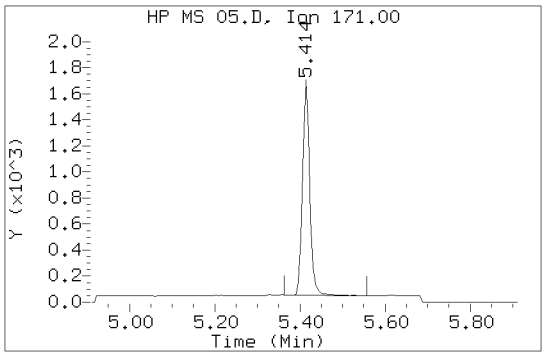
AREA
5723
HEIGHT
4747
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
171
AREA
1935
HEIGHT
1654
18-Dec-2023
10:16
linh
pham



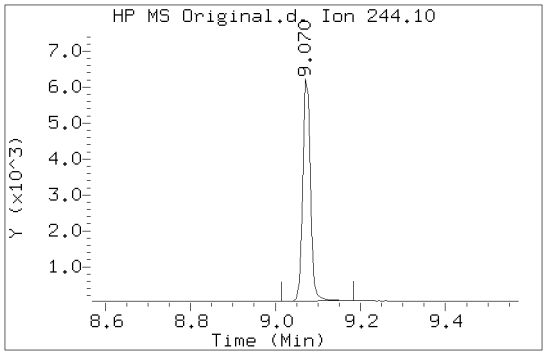
AFTER
MASS
171
AREA
1935
HEIGHT
1654
18-Dec-2023
10:16
linh
pham



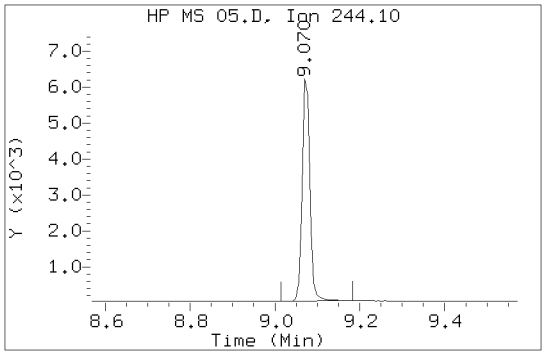
4-Terphenyl-d14 (1718-51-0)

Reason Code:

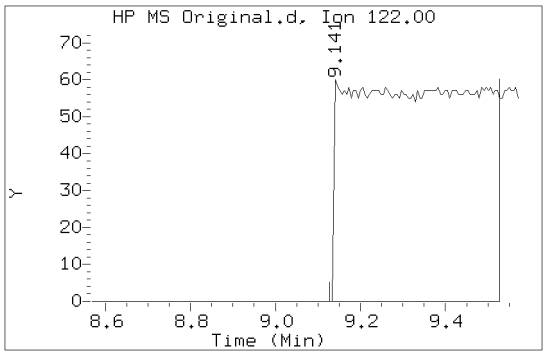
BEFORE
MASS
244.1
AREA
6999
HEIGHT
6174
18-Dec-2023
10:16
linh
pham



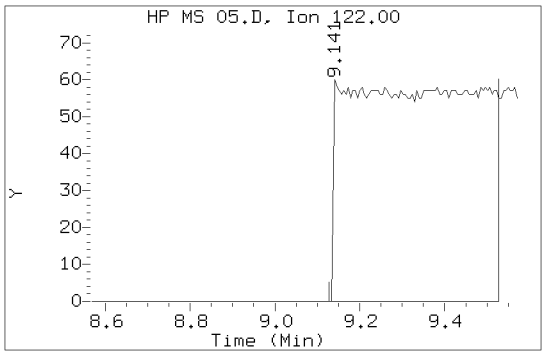
AFTER
MASS
244.1
AREA
6999
HEIGHT
6174
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
122
AREA
1342
HEIGHT
60
18-Dec-2023
10:16
linh
pham



AFTER
MASS
122
AREA
1342
HEIGHT
60
18-Dec-2023
10:16
linh
pham



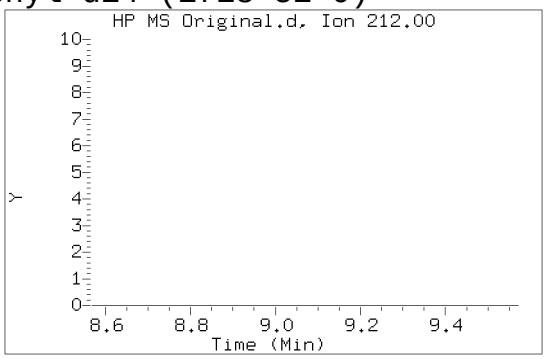
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\05.D
Inj Date : 12-DEC-2023 14:18
InstruID : SV6.i
LabSampID : PAHSIM-0.025

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

Reason Code:

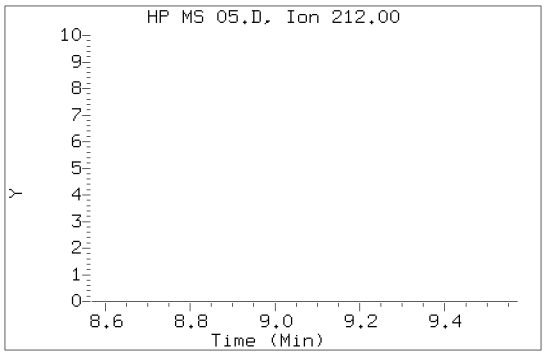
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Lab Smp Id: PAHSIM-0.050 Client Smp ID: PAHSIM-0.050
Inj Date : 12-DEC-2023 14:39
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.050
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 14:18 Cal File: 05.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	18985	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	2458	0.05000	0.04695(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	11683	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.419	5.419	(0.895)	9114	0.05000	0.04899(M)
* 126 Phenanthrene-d10	188	7.499	7.499	(1.000)	24303	0.10000	(M)
* 182 Chrysene-d12	240	10.239	10.239	(1.000)	22699	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.071	9.071	(0.886)	10988	0.05000	0.04767(M)
* 198 Perylene-d12	264	12.222	12.222	(1.000)	23087	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.004)	10183	0.05000	0.04889(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	6820	0.05000	0.04896(M)
62 1-Methylnaphthalene	142	5.150	5.150	(1.173)	6389	0.05000	0.04916(M)
83 Acenaphthylene	152	5.917	5.917	(0.977)	10270	0.05000	0.04808(M)
88 Acenaphthene	154	6.087	6.087	(1.005)	6572	0.05000	0.04879(M)
98 Fluorene	166	6.589	6.589	(1.088)	8058	0.05000	0.04866
92 Dibenzofuran	168	6.718	6.718	(1.109)	4160	0.05000	0.04764(M)
128 Phenanthrene	178	7.518	7.518	(1.002)	12779	0.05000	0.04804
130 Anthracene	178	7.568	7.568	(1.009)	12948	0.05000	0.04884(M)
149 Fluoranthene	202	8.676	8.676	(1.157)	15163	0.05000	0.04792(M)
155 Pyrene	202	8.895	8.895	(0.869)	15971	0.05000	0.04839(M)

181 Benzo(a)Anthracene	228	10.224	10.224 (0.999)	14223	0.05000	0.04621
183 Chrysene	228	10.269	10.269 (1.003)	17029	0.05000	0.04964(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.672	11.672	(0.955)	14264	0.05000	0.04977(M)
195 Benzo(k)fluoranthene	252	11.716	11.716	(0.959)	17371	0.05000	0.05009(M)
197 Benzo(a)pyrene	252	12.134	12.134	(0.993)	13740	0.05000	0.04947(M)
209 Indeno(1,2,3-cd)pyrene	276	13.735	13.735	(1.124)	16176	0.05000	0.04867(M)
210 Dibenzo(a,h)anthracene	278	13.787	13.787	(1.128)	13560	0.05000	0.04912(QM)
212 Benzo(g,h,i)perylene	276	14.100	14.100	(1.154)	14984	0.05000	0.05048(M)

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D

Date : 12-DEC-2023 14:39

Client ID: PAHSIM-0.050

Instrument: SV6.i

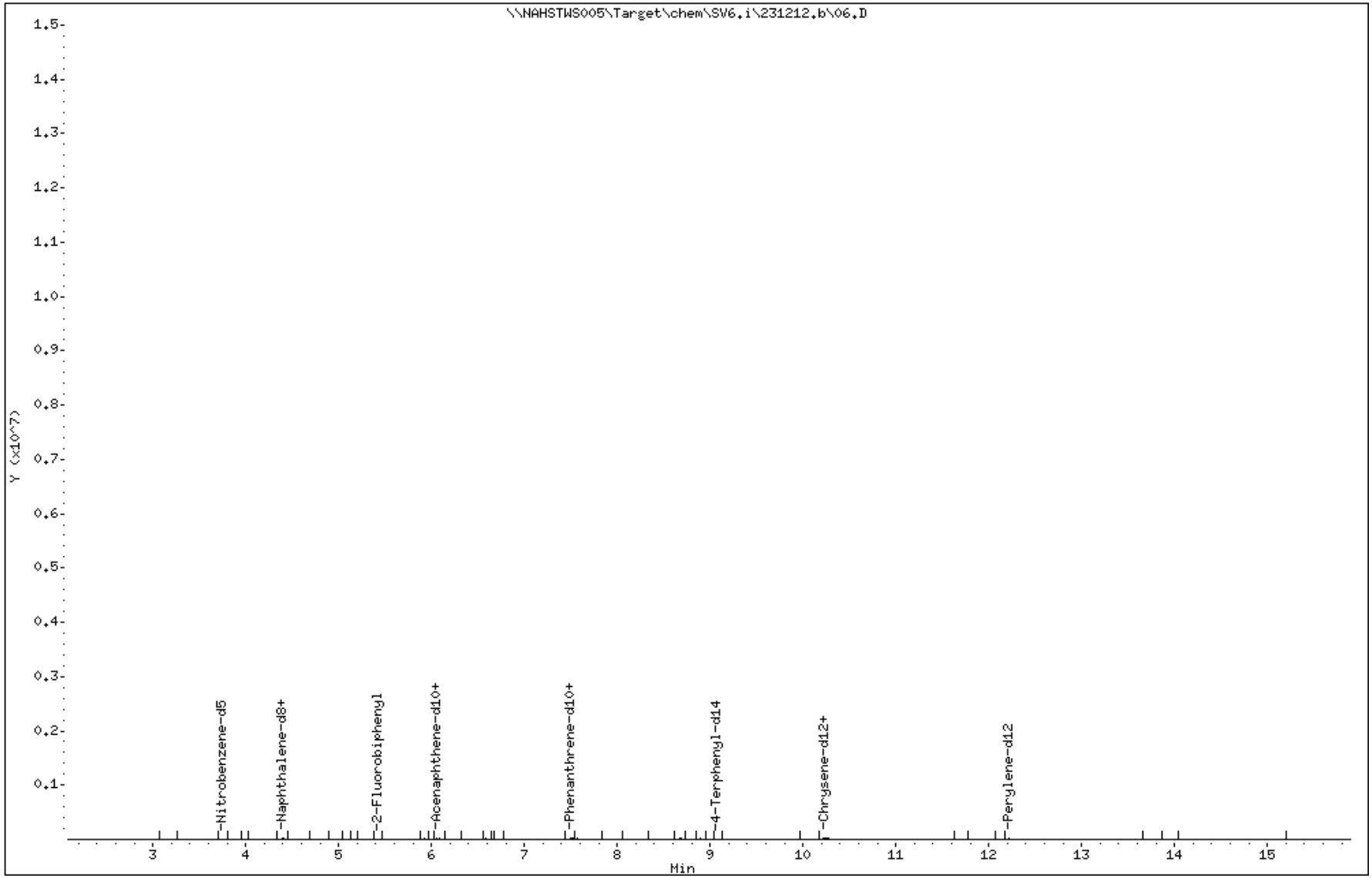
Sample Info: PAHSIM-0.050

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



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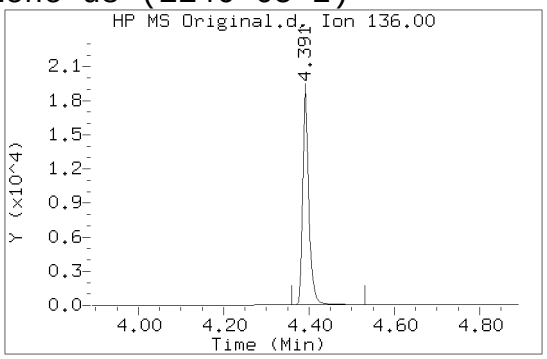
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Naphthalene-d8 (1146-65-2)

Reason Code:

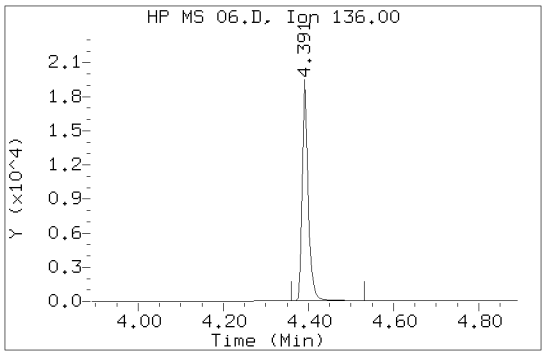
BEFORE

MASS
136
AREA
18985
HEIGHT
19440
18-Dec-2023
10:16
linh
pham



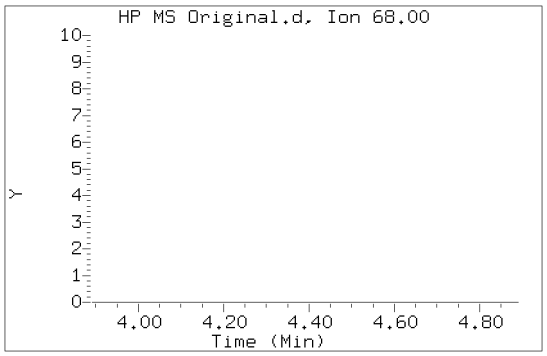
AFTER

MASS
136
AREA
18985
HEIGHT
19440
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
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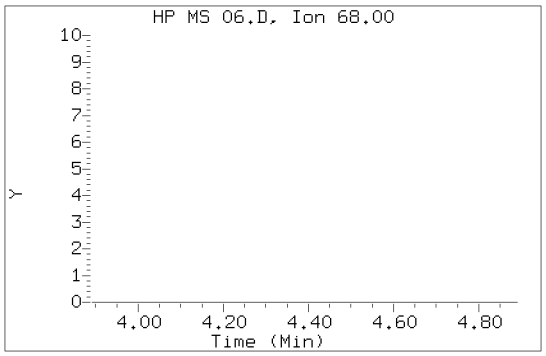
HEIGHT
0
18-Dec-2023
10:16
linh
pham

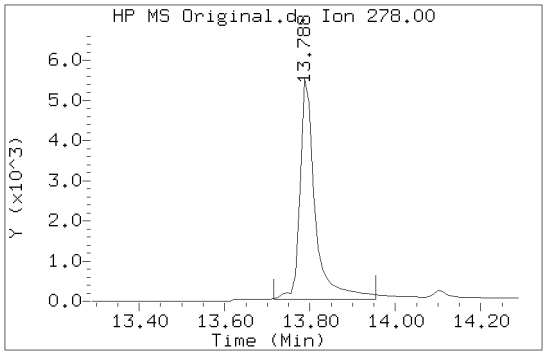


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

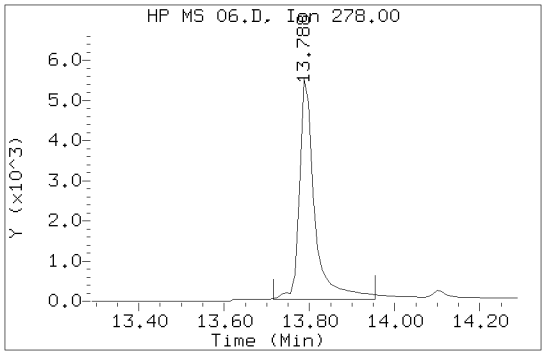
BEFORE

MASS
278
AREA
13560
HEIGHT
5487
18-Dec-2023
10:16
linh
pham



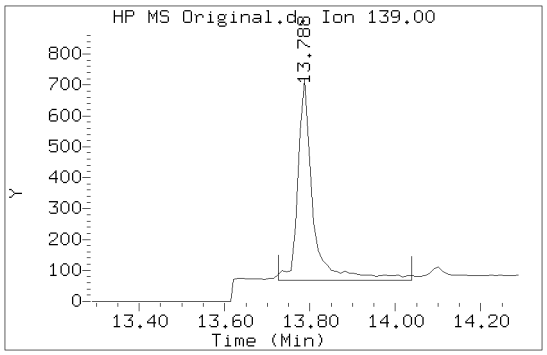
AFTER

MASS
278
AREA
13560
HEIGHT
5487
18-Dec-2023
10:16
linh
pham



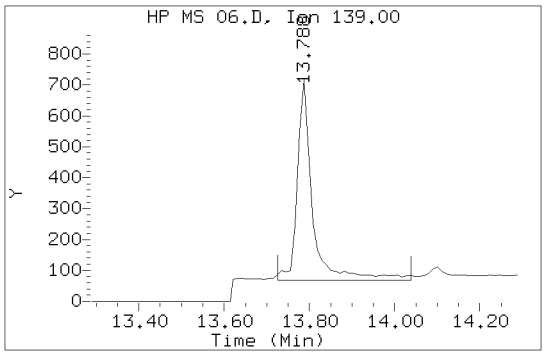
BEFORE

MASS
139
AREA
1603
HEIGHT
648
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
1603
HEIGHT
648
18-Dec-2023
10:16
linh
pham



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Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

BEFORE

MASS
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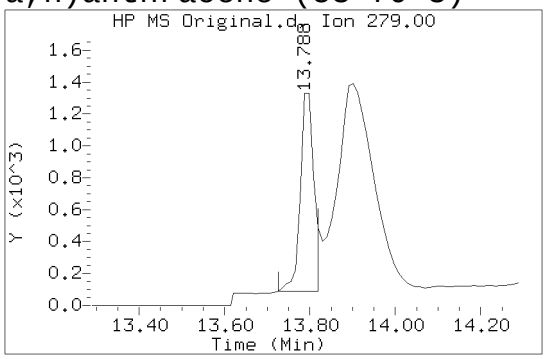
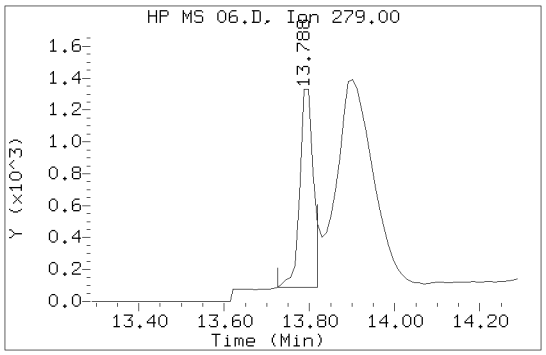
AREA
2776
HEIGHT
1242
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
2776
HEIGHT
1242
18-Dec-2023
10:16
linh
pham

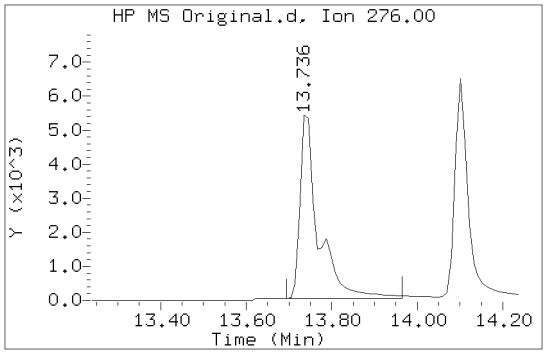


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

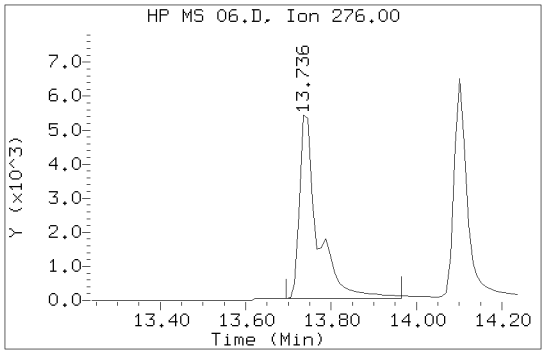
BEFORE

MASS
276
AREA
16176
HEIGHT
5399
18-Dec-2023
10:16
linh
pham



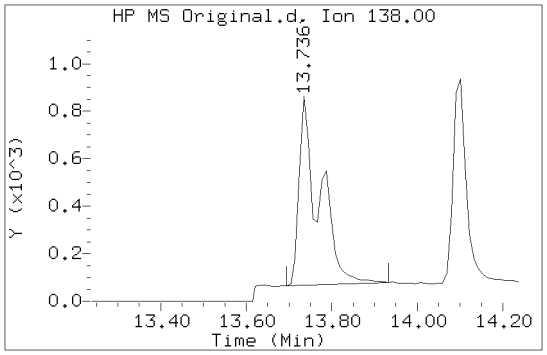
AFTER

MASS
276
AREA
16176
HEIGHT
5399
18-Dec-2023
10:16
linh
pham



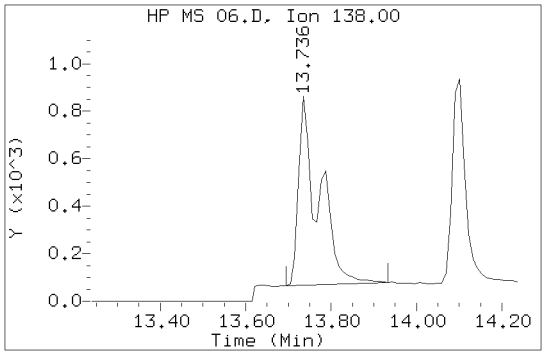
BEFORE

MASS
138
AREA
2586
HEIGHT
796
18-Dec-2023
10:16
linh
pham



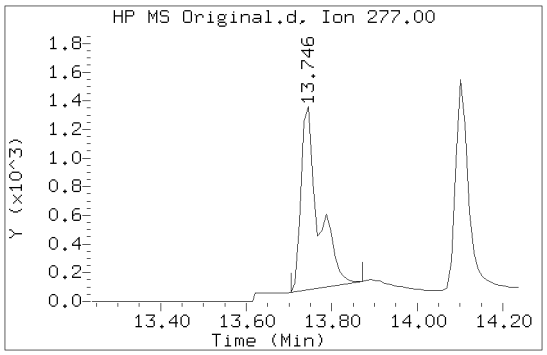
AFTER

MASS
138
AREA
2586
HEIGHT
796
18-Dec-2023
10:16
linh
pham



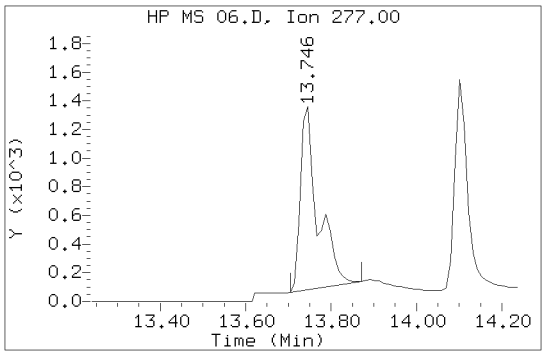
BEFORE

MASS
277
AREA
3606
HEIGHT
1277
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
3606
HEIGHT
1277
18-Dec-2023
10:16
linh
pham



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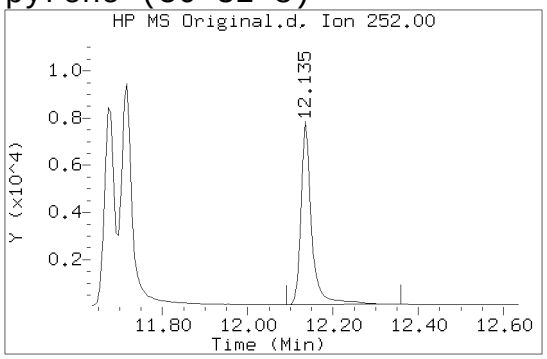
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(a)pyrene (50-32-8)

Reason Code:

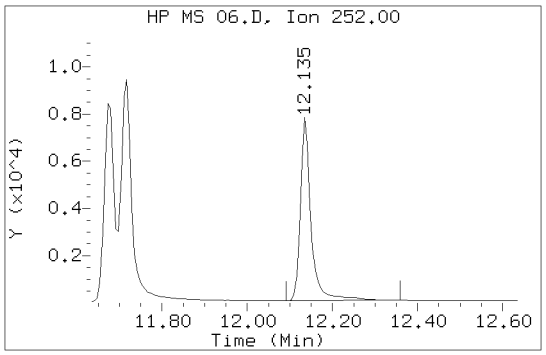
BEFORE

MASS
252
AREA
13740
HEIGHT
7757
18-Dec-2023
10:16
linh
pham



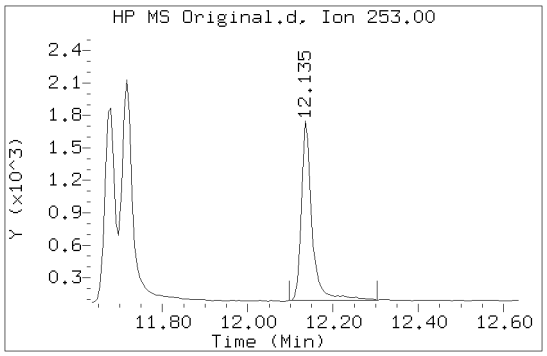
AFTER

MASS
252
AREA
13740
HEIGHT
7757
18-Dec-2023
10:16
linh
pham



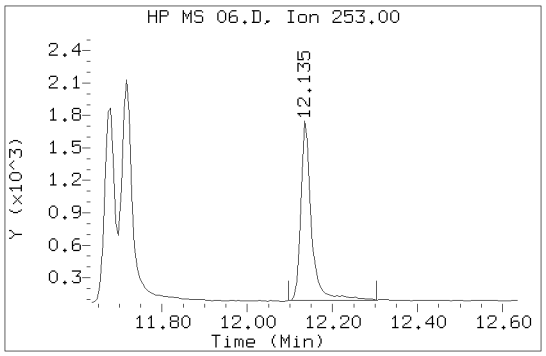
BEFORE

MASS
253
AREA
2910
HEIGHT
1658
18-Dec-2023
10:16
linh
pham



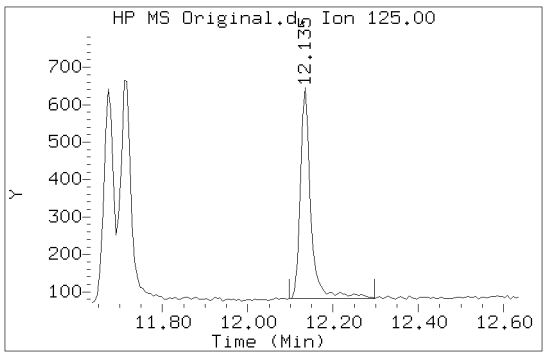
AFTER

MASS
253
AREA
2910
HEIGHT
1658
18-Dec-2023
10:16
linh
pham



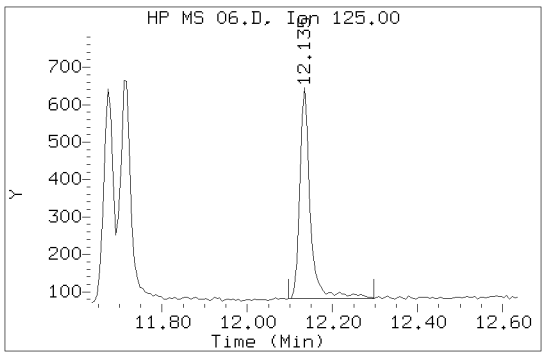
BEFORE

MASS
125
AREA
981
HEIGHT
564
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
981
HEIGHT
564
18-Dec-2023
10:16
linh
pham

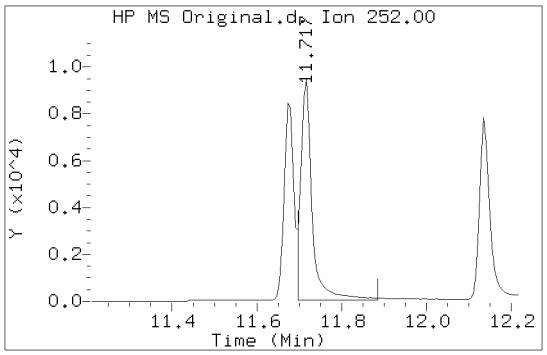


Benzo(k)fluoranthene (207-08-9)

Reason Code:

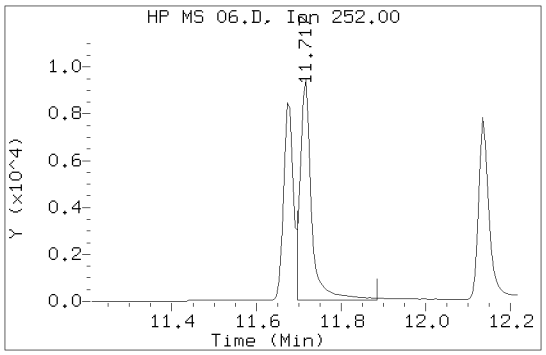
BEFORE

MASS
252
AREA
17371
HEIGHT
9396
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
17371
HEIGHT
9396
18-Dec-2023
10:16
linh
pham



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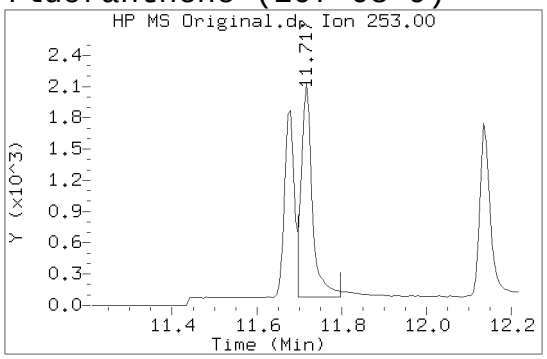
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(k)fluoranthene (207-08-9)

Reason Code:

BEFORE

MASS
253
AREA
3729
HEIGHT
2048
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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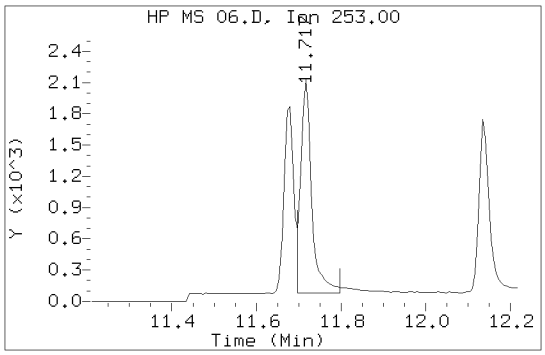
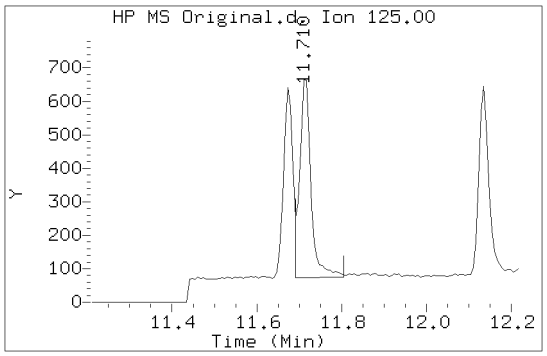
AREA
3729
HEIGHT
2048
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
125
AREA
1113
HEIGHT
590
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
1113
HEIGHT
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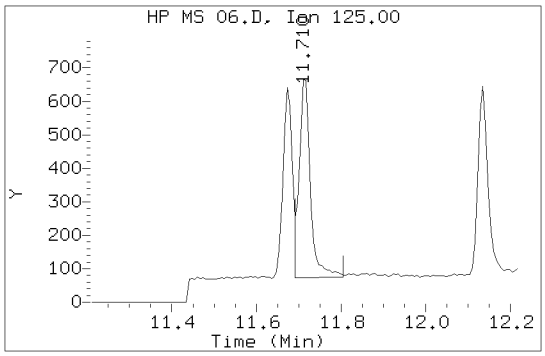
18-Dec-2023
10:16
linh
pham

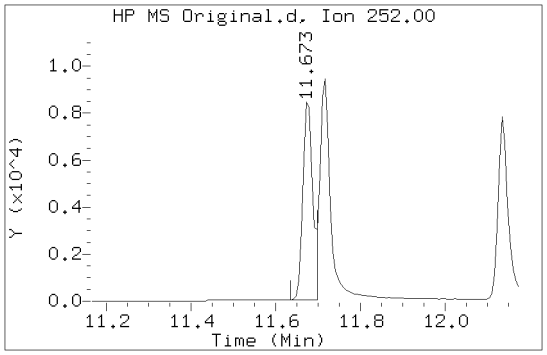


Benzo(b)fluoranthene (205-99-2)

Reason Code:

BEFORE

MASS
252
AREA
14264
HEIGHT
8401
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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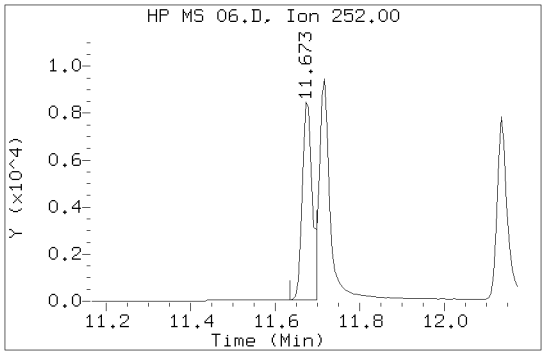
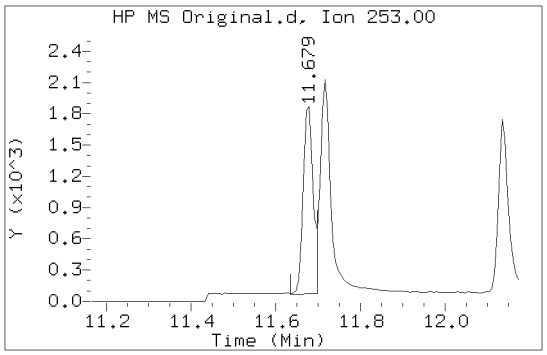
AREA
14264
HEIGHT
8401
18-Dec-2023
10:16
linh
pham



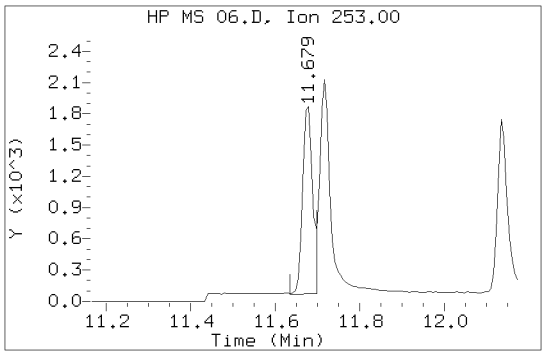
BEFORE

MASS
253
AREA
3071
HEIGHT
1795
18-Dec-2023
10:16
linh
pham



AFTER

MASS
253
AREA
3071
HEIGHT
1795
18-Dec-2023
10:16
linh
pham



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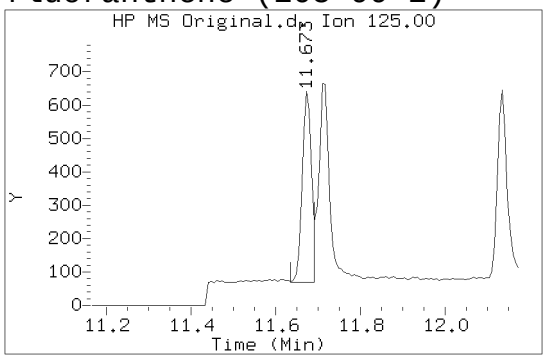
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Benzo(b)fluoranthene (205-99-2)

Reason Code:

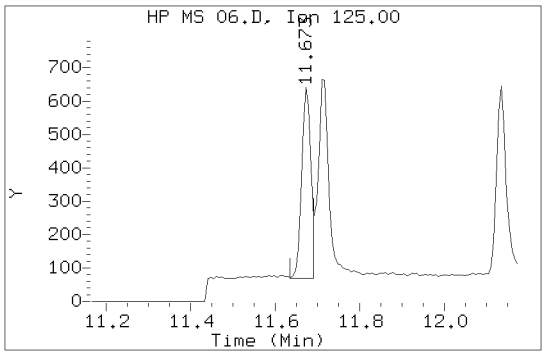
BEFORE

MASS
125
AREA
902
HEIGHT
572
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
902
HEIGHT
572
18-Dec-2023
10:16
linh
pham

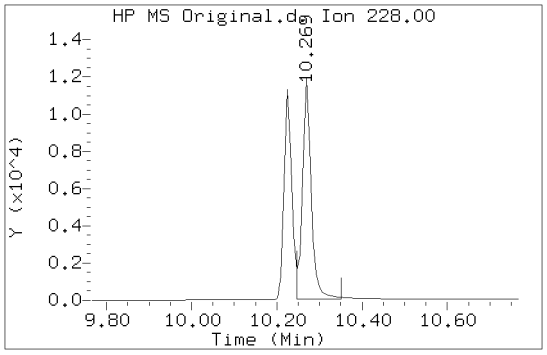


Chrysene (218-01-9)

Reason Code:

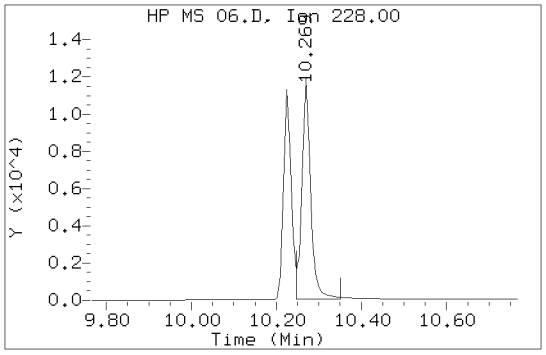
BEFORE

MASS
228
AREA
17029
HEIGHT
11851
18-Dec-2023
10:16
linh
pham



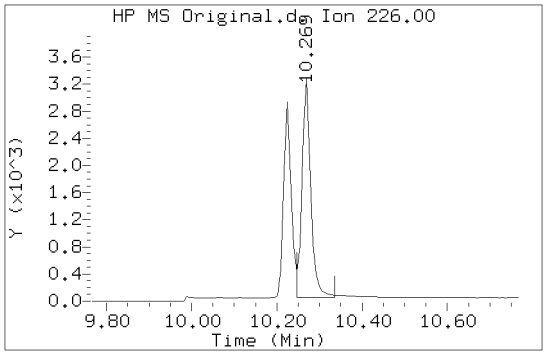
AFTER

MASS
228
AREA
17029
HEIGHT
11851
18-Dec-2023
10:16
linh
pham



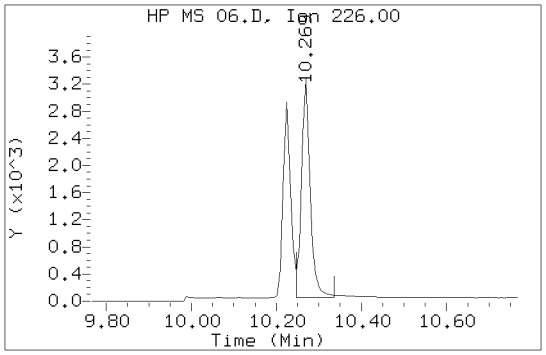
BEFORE

MASS
226
AREA
4617
HEIGHT
3222
18-Dec-2023
10:16
linh
pham



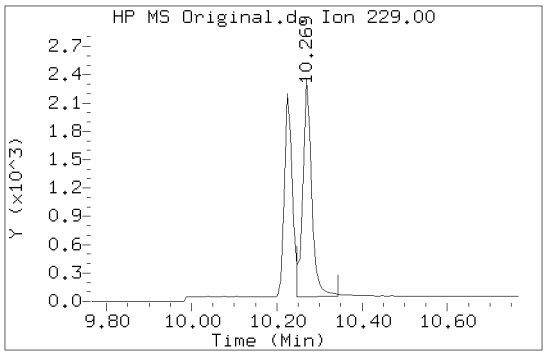
AFTER

MASS
226
AREA
4617
HEIGHT
3222
18-Dec-2023
10:16
linh
pham



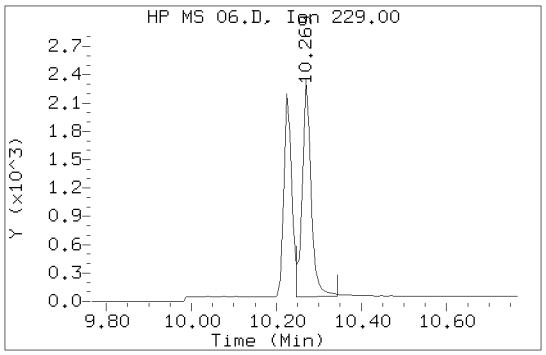
BEFORE

MASS
229
AREA
3338
HEIGHT
2296
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
3338
HEIGHT
2296
18-Dec-2023
10:16
linh
pham



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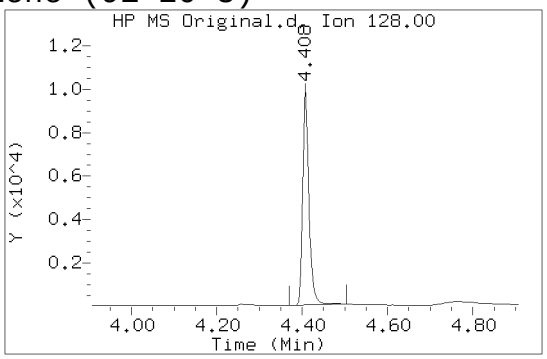
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

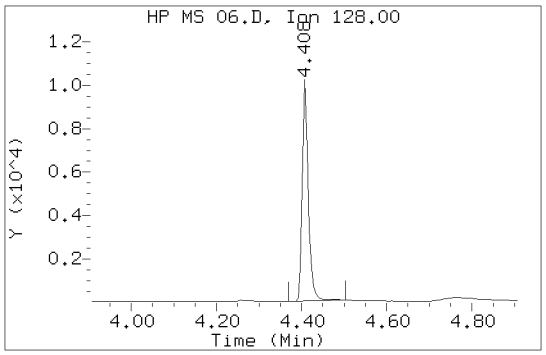
Naphthalene (91-20-3)

Reason Code:

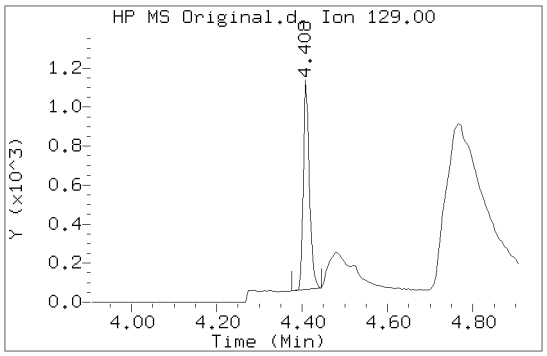
BEFORE
MASS
128
AREA
10183
HEIGHT
10187
18-Dec-2023
10:16
linh
pham



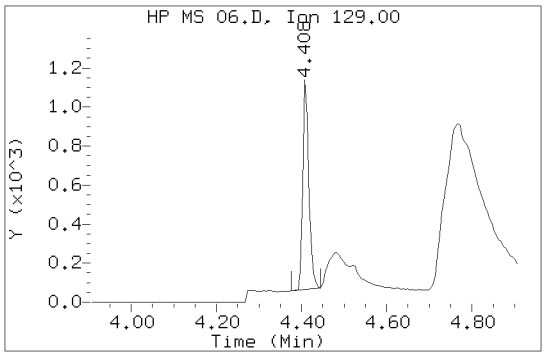
AFTER
MASS
128
AREA
10183
HEIGHT
10187
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
129
AREA
1072
HEIGHT
1074
18-Dec-2023
10:16
linh
pham



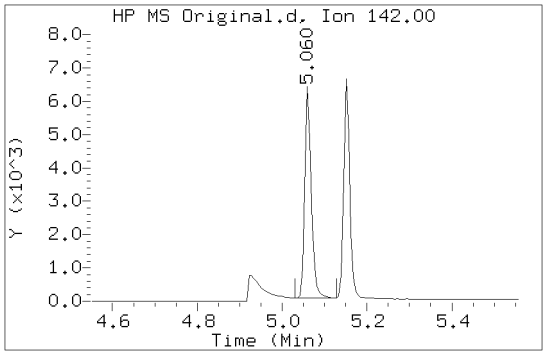
AFTER
MASS
129
AREA
1072
HEIGHT
1074
18-Dec-2023
10:16
linh
pham



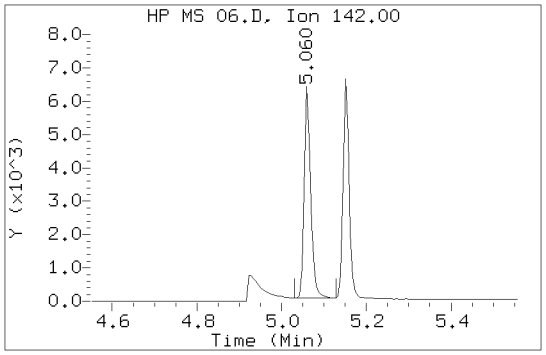
2-Methylnaphthalene (91-57-6)

Reason Code:

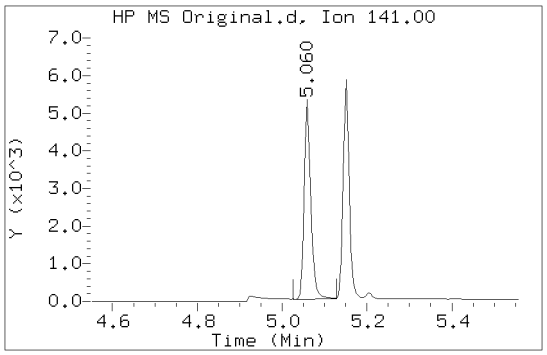
BEFORE
MASS
142
AREA
6820
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



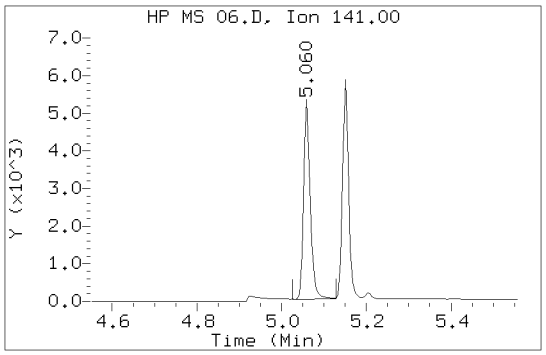
AFTER
MASS
142
AREA
6820
HEIGHT
6338
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
141
AREA
5900
HEIGHT
5323
18-Dec-2023
10:16
linh
pham



AFTER
MASS
141
AREA
5900
HEIGHT
5323
18-Dec-2023
10:16
linh
pham



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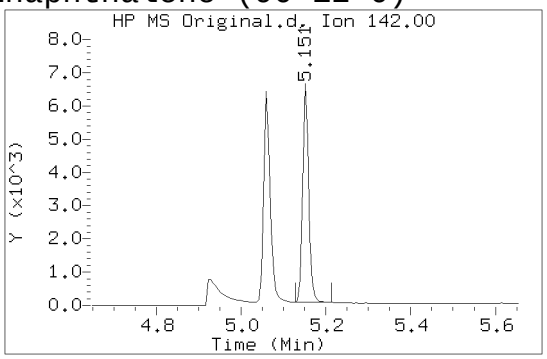
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

1-Methylnaphthalene (90-12-0)

Reason Code:

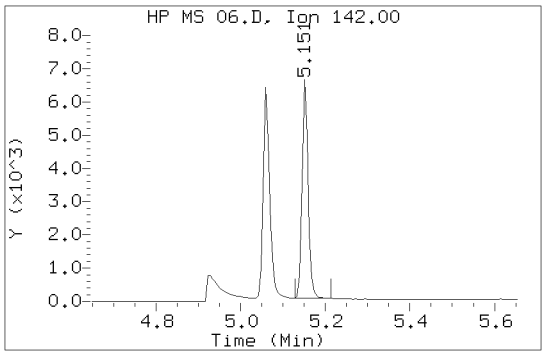
BEFORE

MASS
142
AREA
6389
HEIGHT
6576
18-Dec-2023
10:16
linh
pham



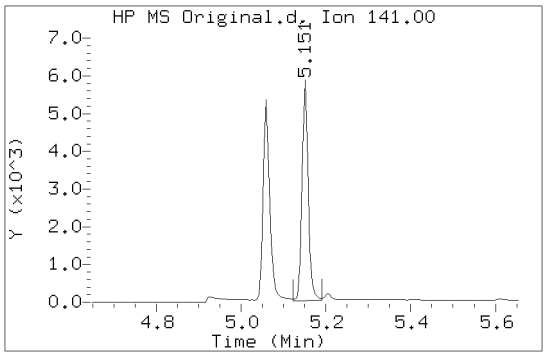
AFTER

MASS
142
AREA
6389
HEIGHT
6576
18-Dec-2023
10:16
linh
pham



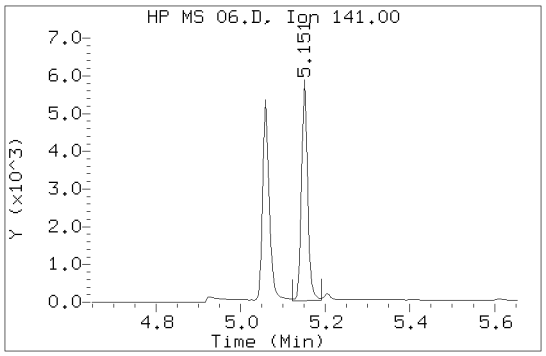
BEFORE

MASS
141
AREA
5805
HEIGHT
5845
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
5805
HEIGHT
5845
18-Dec-2023
10:16
linh
pham

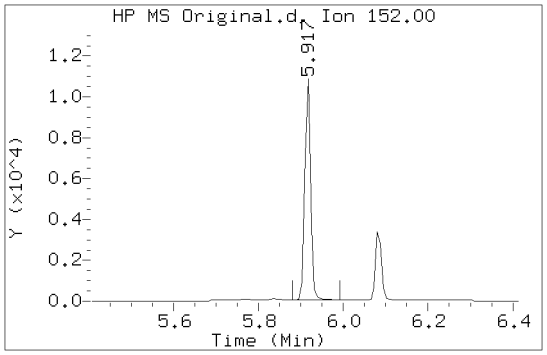


Acenaphthylene (208-96-8)

Reason Code:

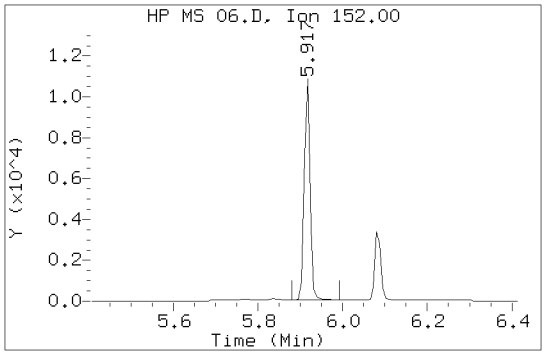
BEFORE

MASS
152
AREA
10270
HEIGHT
10813
18-Dec-2023
10:16
linh
pham



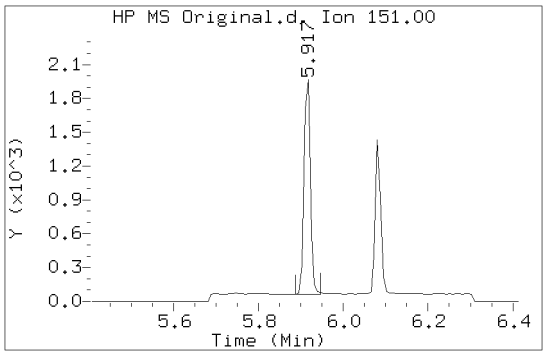
AFTER

MASS
152
AREA
10270
HEIGHT
10813
18-Dec-2023
10:16
linh
pham



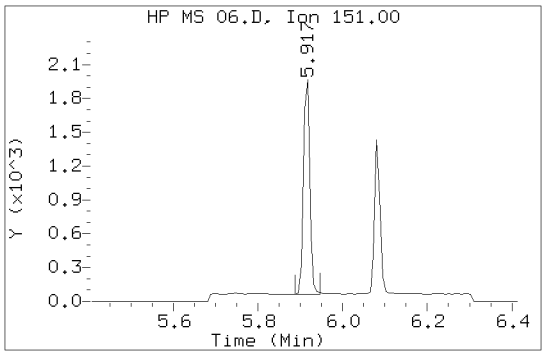
BEFORE

MASS
151
AREA
1989
HEIGHT
1904
18-Dec-2023
10:16
linh
pham



AFTER

MASS
151
AREA
1989
HEIGHT
1904
18-Dec-2023
10:16
linh
pham



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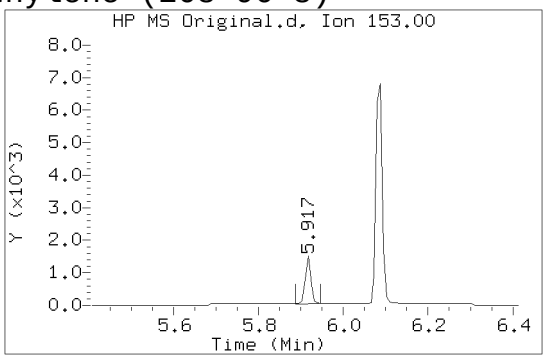
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Acenaphthylene (208-96-8)

Reason Code:

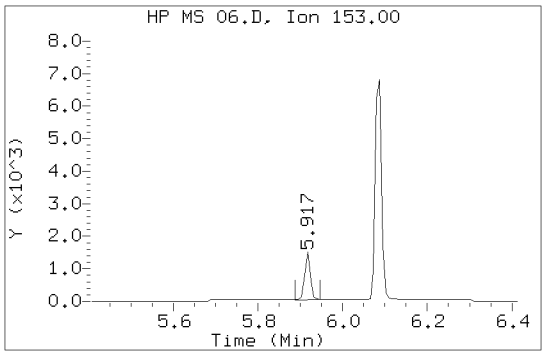
BEFORE

MASS
153
AREA
1343
HEIGHT
1458
18-Dec-2023
10:16
linh
pham



AFTER

MASS
153
AREA
1343
HEIGHT
1458
18-Dec-2023
10:16
linh
pham

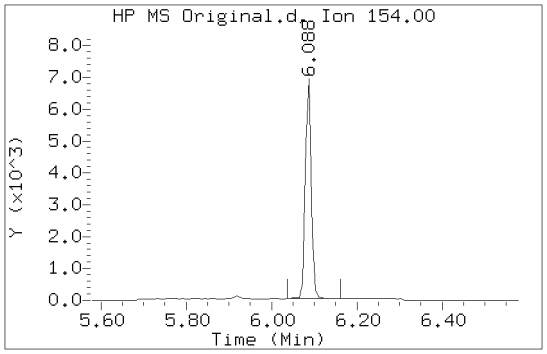


Acenaphthene (83-32-9)

Reason Code:

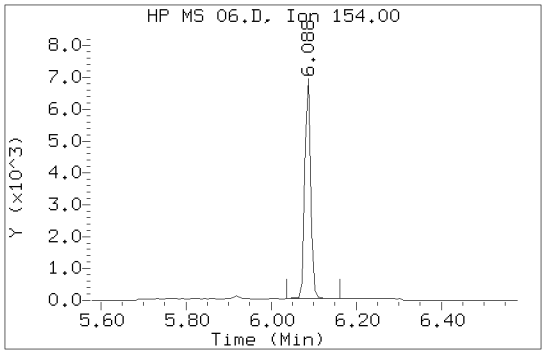
BEFORE

MASS
154
AREA
6572
HEIGHT
6906
18-Dec-2023
10:16
linh
pham



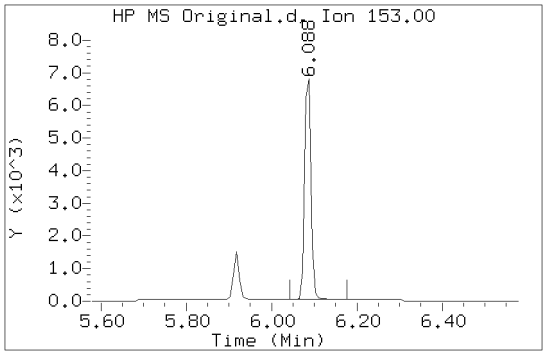
AFTER

MASS
154
AREA
6572
HEIGHT
6906
18-Dec-2023
10:16
linh
pham



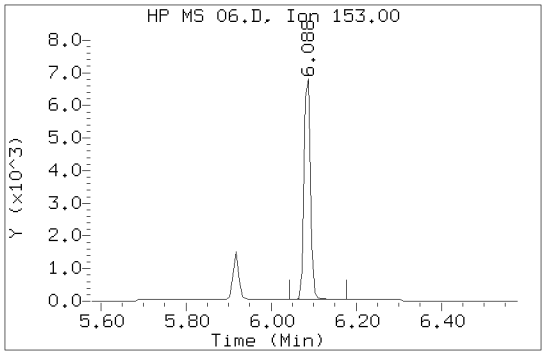
BEFORE

MASS
153
AREA
7004
HEIGHT
6753
18-Dec-2023
10:16
linh
pham



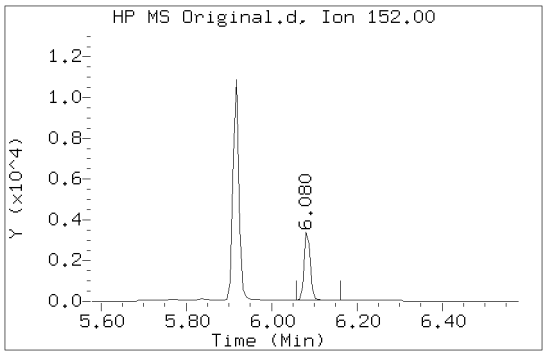
AFTER

MASS
153
AREA
7004
HEIGHT
6753
18-Dec-2023
10:16
linh
pham



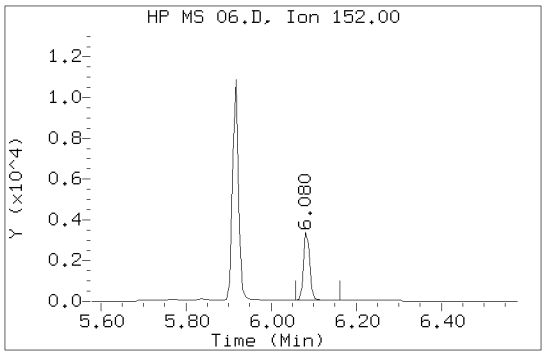
BEFORE

MASS
152
AREA
3311
HEIGHT
3323
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
3311
HEIGHT
3323
18-Dec-2023
10:16
linh
pham



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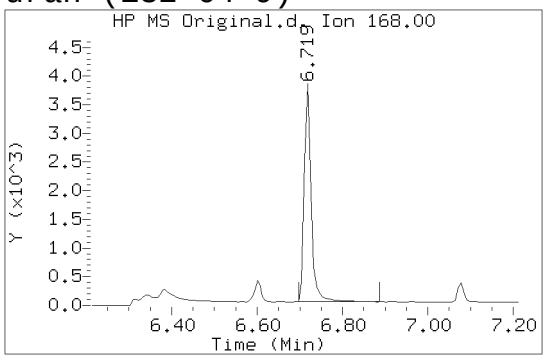
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Dibenzofuran (132-64-9)

Reason Code:

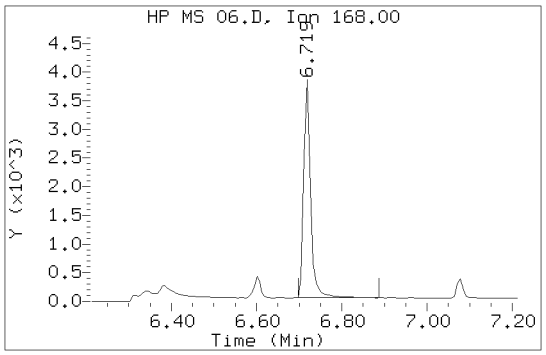
BEFORE

MASS
168
AREA
4160
HEIGHT
3800
18-Dec-2023
10:16
linh
pham



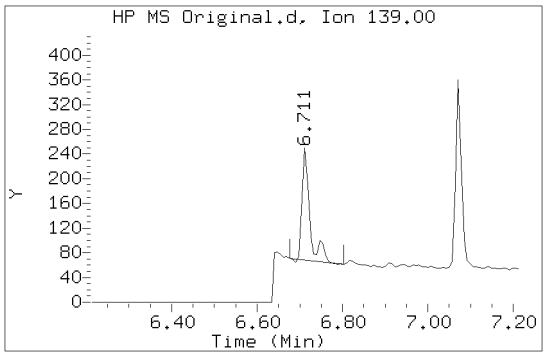
AFTER

MASS
168
AREA
4160
HEIGHT
3800
18-Dec-2023
10:16
linh
pham



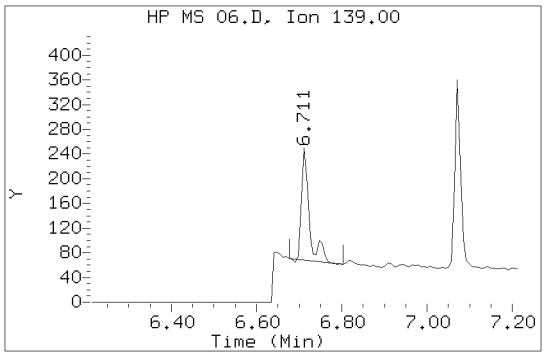
BEFORE

MASS
139
AREA
221
HEIGHT
181
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
221
HEIGHT
181
18-Dec-2023
10:16
linh
pham

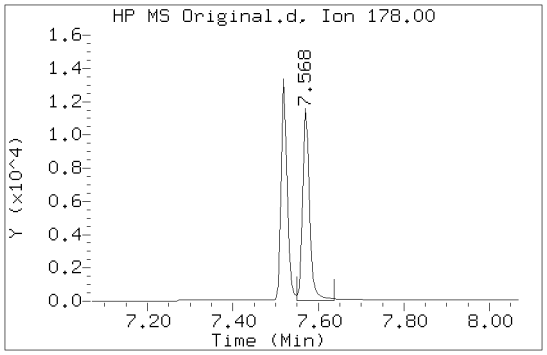


Anthracene (120-12-7)

Reason Code:

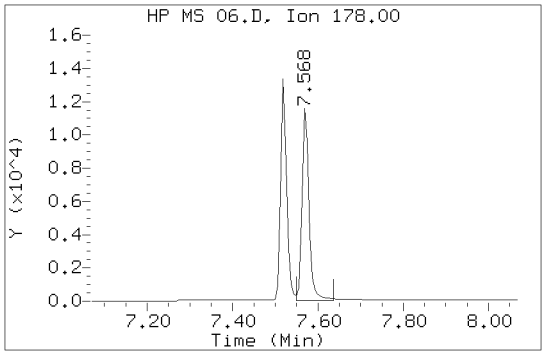
BEFORE

MASS
178
AREA
12948
HEIGHT
11565
18-Dec-2023
10:16
linh
pham



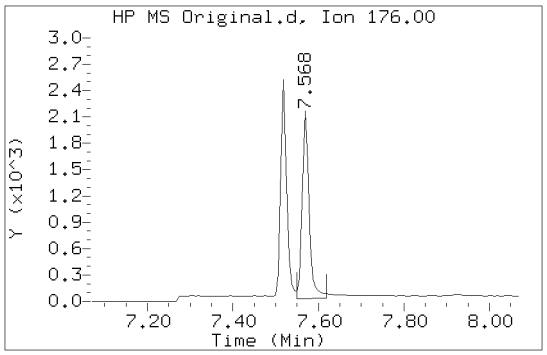
AFTER

MASS
178
AREA
12948
HEIGHT
11565
18-Dec-2023
10:16
linh
pham



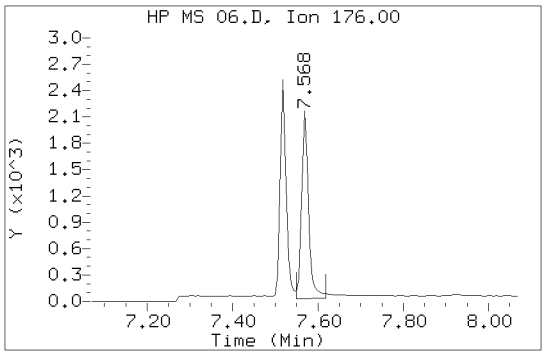
BEFORE

MASS
176
AREA
2374
HEIGHT
2139
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
2374
HEIGHT
2139
18-Dec-2023
10:16
linh
pham



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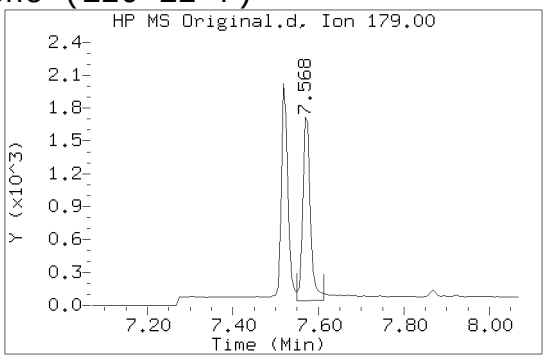
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Anthracene (120-12-7)

Reason Code:

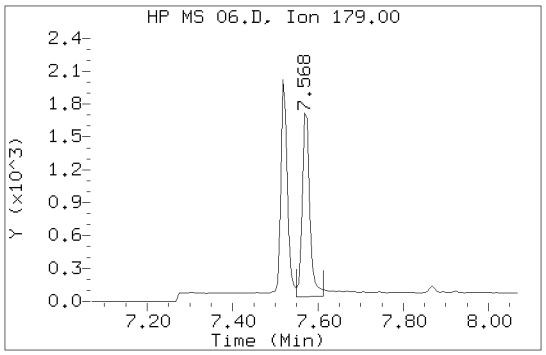
BEFORE

MASS
179
AREA
2067
HEIGHT
1678
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
2067
HEIGHT
1678
18-Dec-2023
10:16
linh
pham

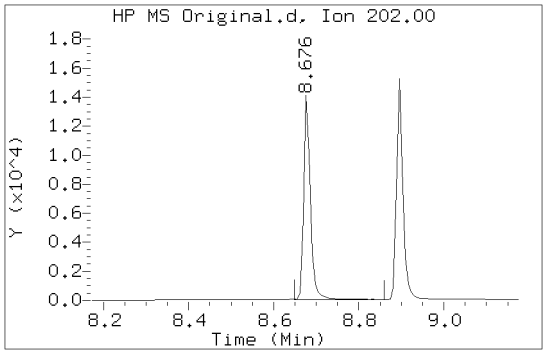


Fluoranthene (206-44-0)

Reason Code:

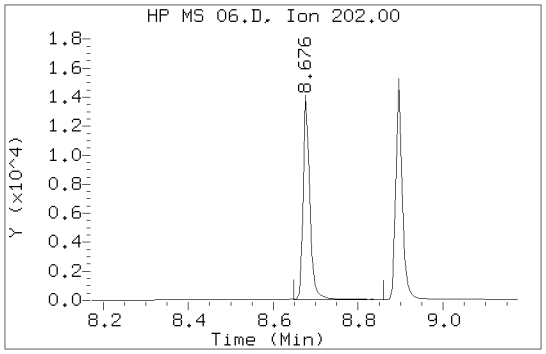
BEFORE

MASS
202
AREA
15163
HEIGHT
14061
18-Dec-2023
10:16
linh
pham



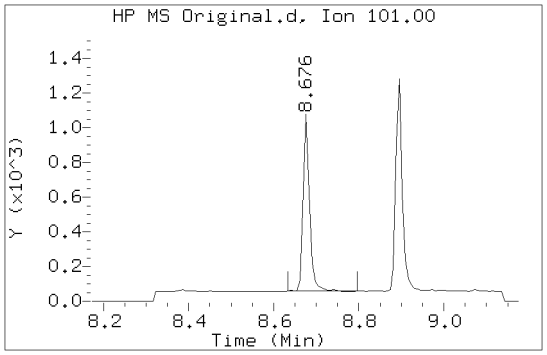
AFTER

MASS
202
AREA
15163
HEIGHT
14061
18-Dec-2023
10:16
linh
pham



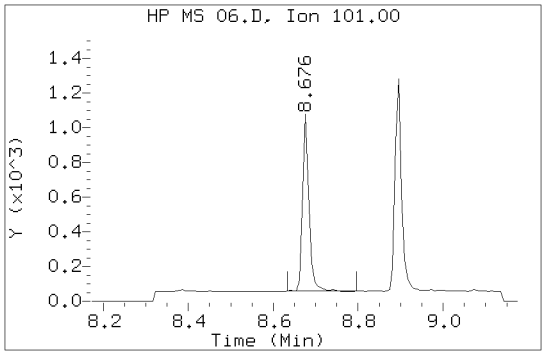
BEFORE

MASS
101
AREA
1063
HEIGHT
1018
18-Dec-2023
10:16
linh
pham



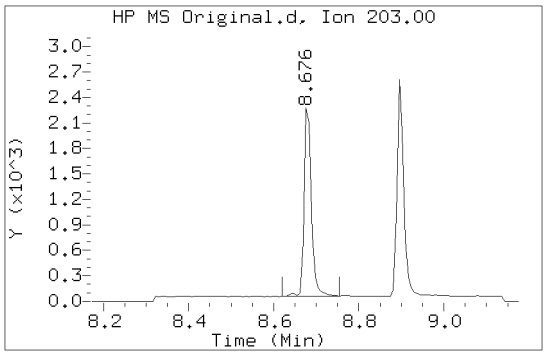
AFTER

MASS
101
AREA
1063
HEIGHT
1018
18-Dec-2023
10:16
linh
pham



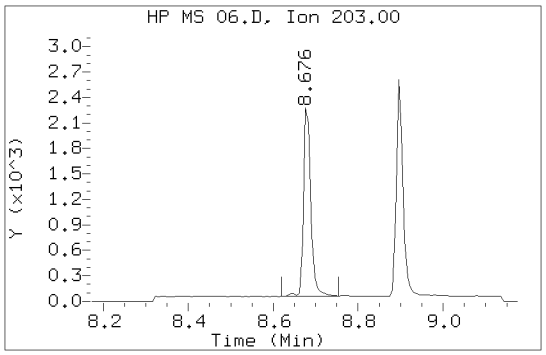
BEFORE

MASS
203
AREA
2620
HEIGHT
2220
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
2620
HEIGHT
2220
18-Dec-2023
10:16
linh
pham



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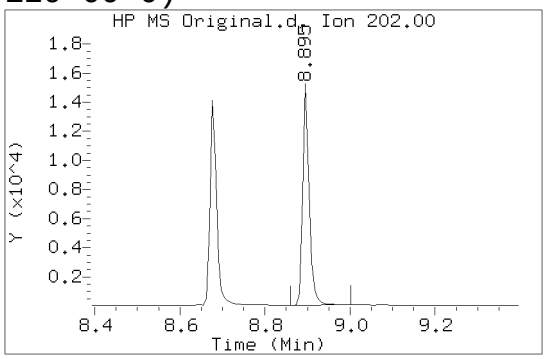
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Pyrene (129-00-0)

Reason Code:

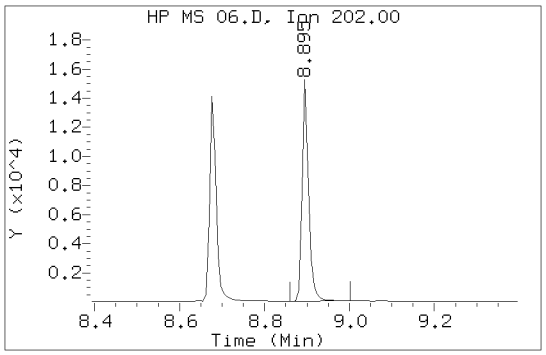
BEFORE

MASS
202
AREA
15971
HEIGHT
15202
18-Dec-2023
10:16
linh
pham



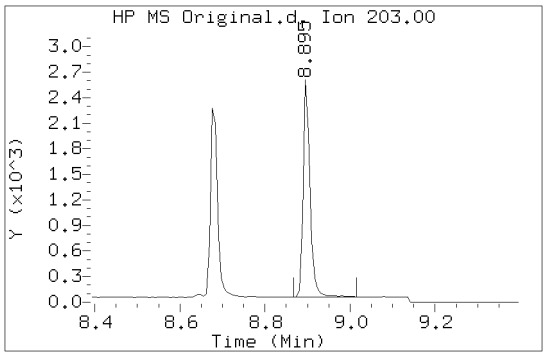
AFTER

MASS
202
AREA
15971
HEIGHT
15202
18-Dec-2023
10:16
linh
pham



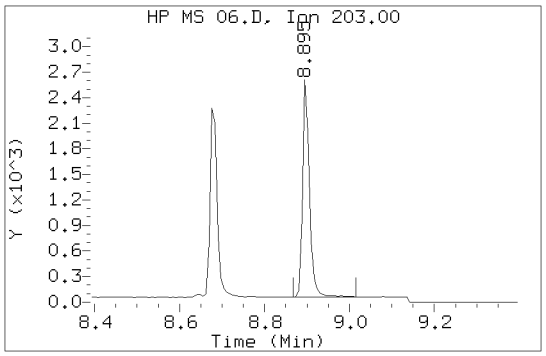
BEFORE

MASS
203
AREA
2799
HEIGHT
2547
18-Dec-2023
10:16
linh
pham



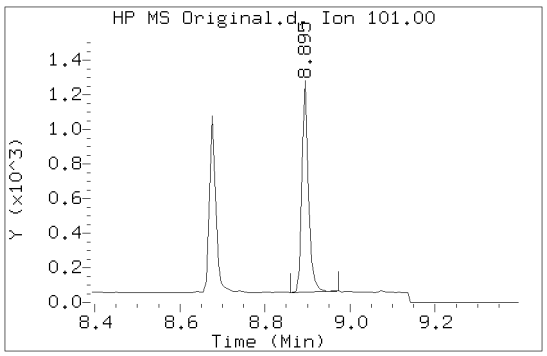
AFTER

MASS
203
AREA
2799
HEIGHT
2547
18-Dec-2023
10:16
linh
pham



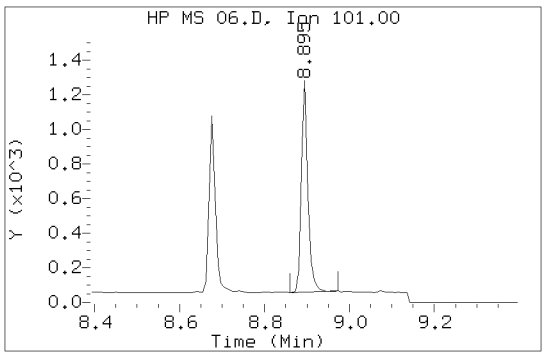
BEFORE

MASS
101
AREA
1305
HEIGHT
1223
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
1305
HEIGHT
1223
18-Dec-2023
10:16
linh
pham

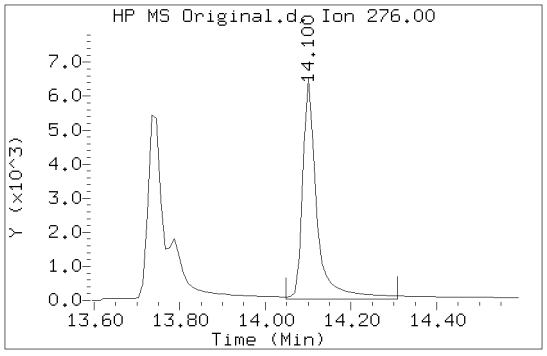


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

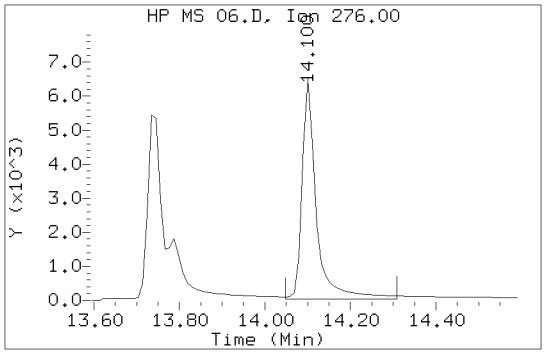
BEFORE

MASS
276
AREA
14984
HEIGHT
6473
18-Dec-2023
10:16
linh
pham



AFTER

MASS
276
AREA
14984
HEIGHT
6473
18-Dec-2023
10:16
linh
pham



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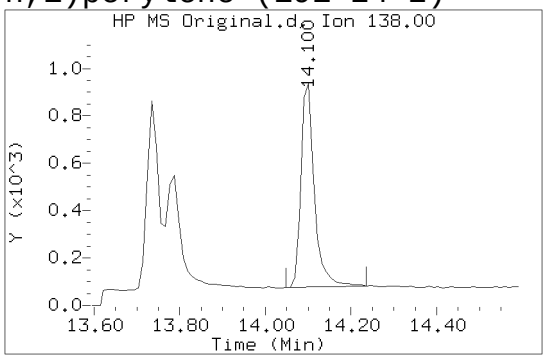
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

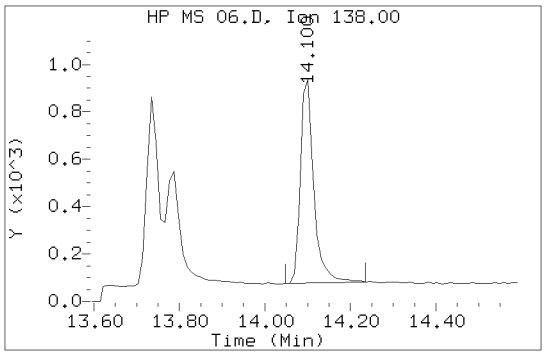
Benzo(g,h,i)perylene (191-24-2)

Reason Code:

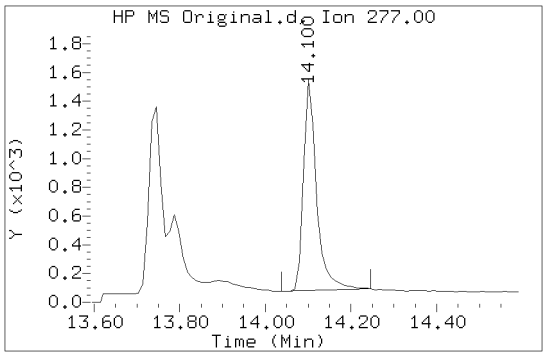
BEFORE
MASS
138
AREA
1867
HEIGHT
859
18-Dec-2023
10:16
linh
pham



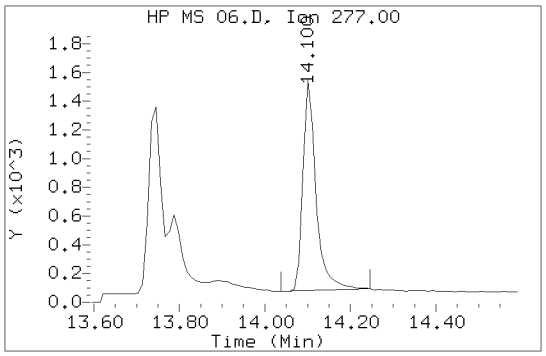
AFTER
MASS
138
AREA
1867
HEIGHT
859
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
277
AREA
3106
HEIGHT
1466
18-Dec-2023
10:16
linh
pham



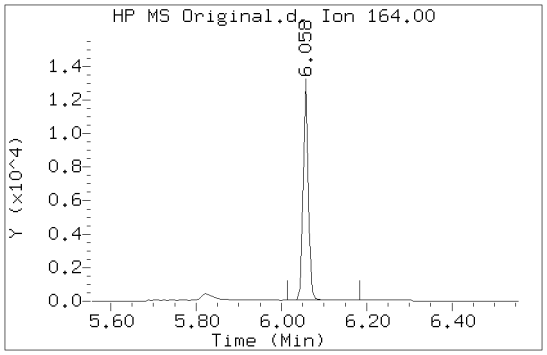
AFTER
MASS
277
AREA
3106
HEIGHT
1466
18-Dec-2023
10:16
linh
pham



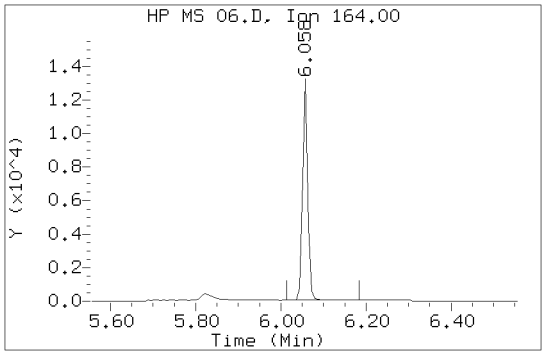
Acenaphthene-d10 (15067-26-2)

Reason Code:

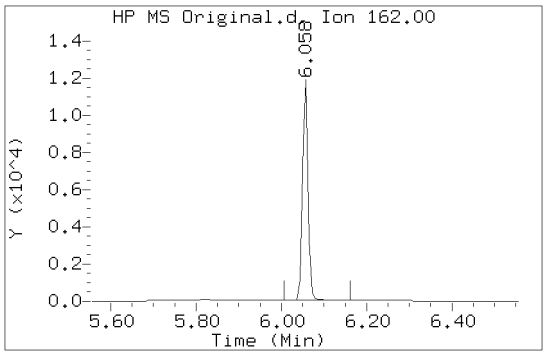
BEFORE
MASS
164
AREA
11683
HEIGHT
13197
18-Dec-2023
10:16
linh
pham



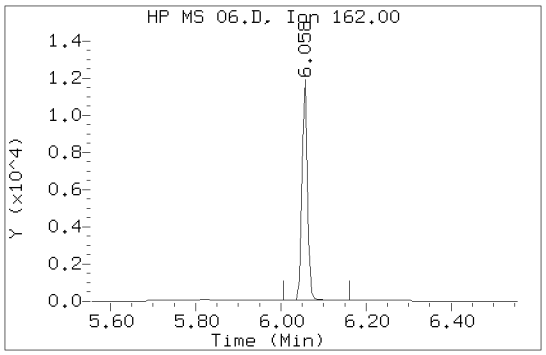
AFTER
MASS
164
AREA
11683
HEIGHT
13197
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
162
AREA
11274
HEIGHT
11862
18-Dec-2023
10:16
linh
pham



AFTER
MASS
162
AREA
11274
HEIGHT
11862
18-Dec-2023
10:16
linh
pham



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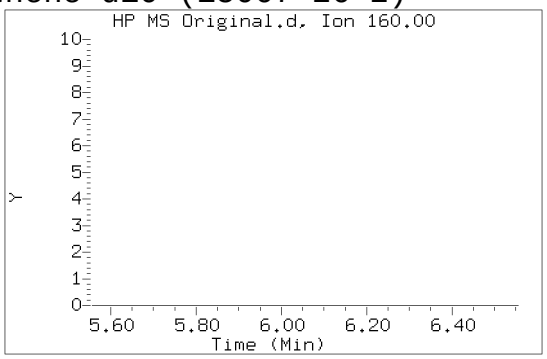
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Acenaphthene-d10 (15067-26-2)

Reason Code:

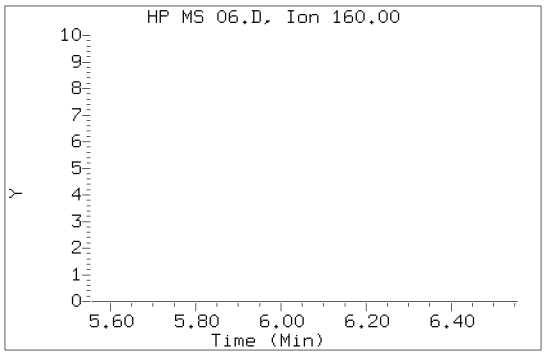
BEFORE

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

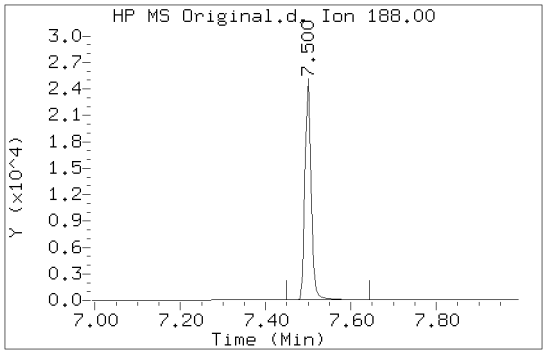


Phenanthrene-d10 (1517-22-2)

Reason Code:

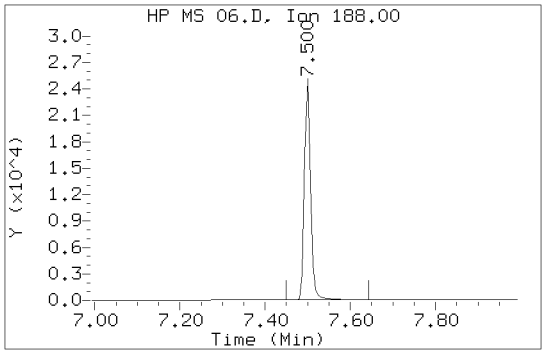
BEFORE

MASS
188
AREA
24303
HEIGHT
25107
18-Dec-2023
10:16
linh
pham



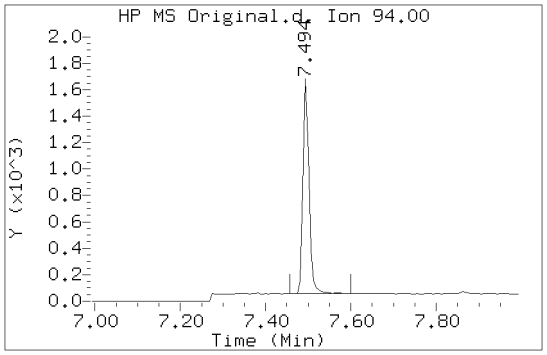
AFTER

MASS
188
AREA
24303
HEIGHT
25107
18-Dec-2023
10:16
linh
pham



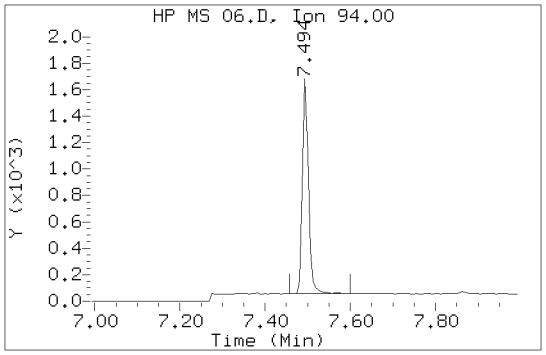
BEFORE

MASS
94
AREA
1558
HEIGHT
1625
18-Dec-2023
10:16
linh
pham



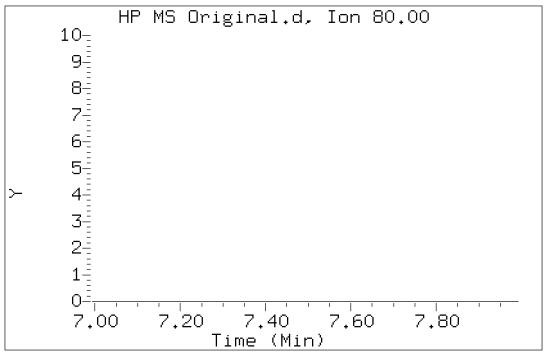
AFTER

MASS
94
AREA
1558
HEIGHT
1625
18-Dec-2023
10:16
linh
pham



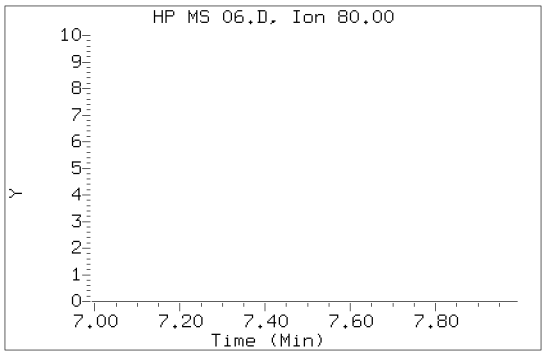
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



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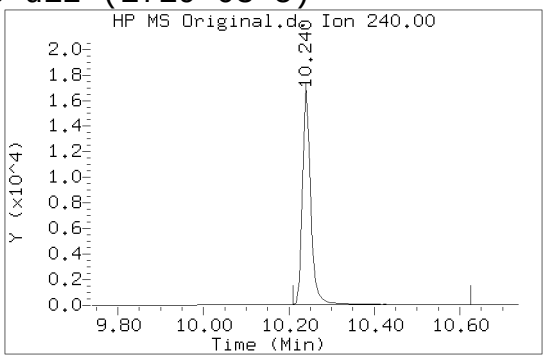
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Chrysene-d12 (1719-03-5)

Reason Code:

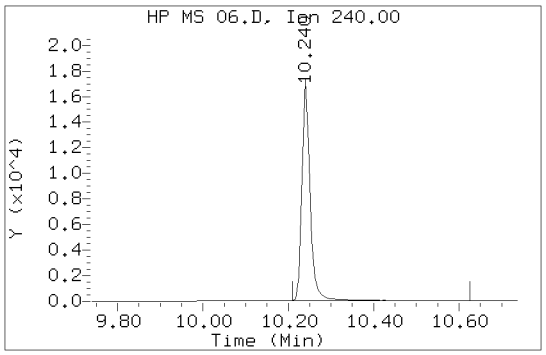
BEFORE

MASS
240
AREA
22699
HEIGHT
17265
18-Dec-2023
10:16
linh
pham



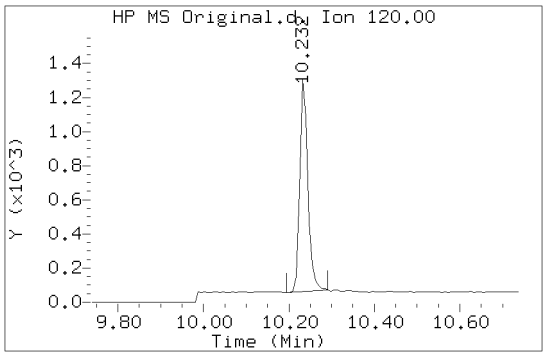
AFTER

MASS
240
AREA
22699
HEIGHT
17265
18-Dec-2023
10:16
linh
pham



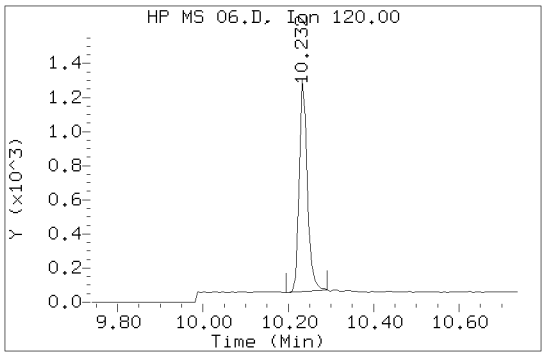
BEFORE

MASS
120
AREA
1613
HEIGHT
1240
18-Dec-2023
10:16
linh
pham



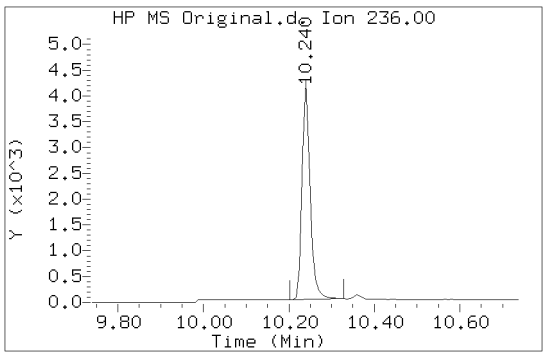
AFTER

MASS
120
AREA
1613
HEIGHT
1240
18-Dec-2023
10:16
linh
pham



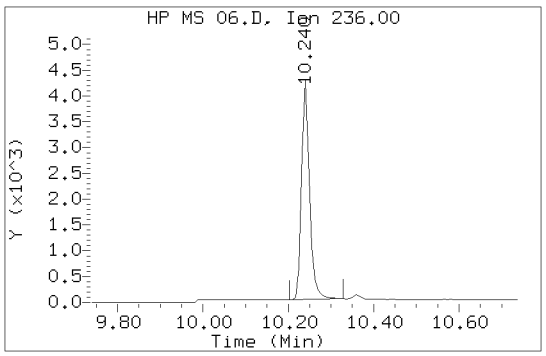
BEFORE

MASS
236
AREA
5480
HEIGHT
4241
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
5480
HEIGHT
4241
18-Dec-2023
10:16
linh
pham

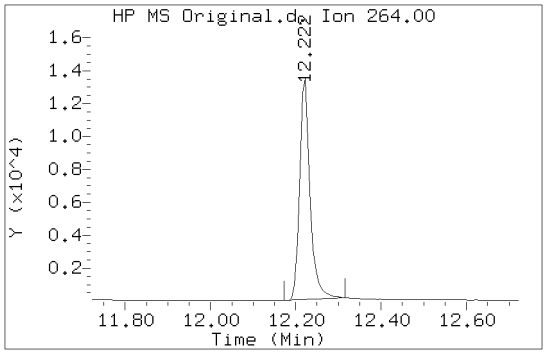


Perylene-d12 (1520-96-3)

Reason Code:

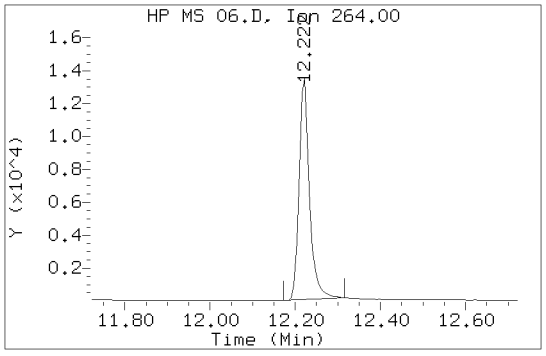
BEFORE

MASS
264
AREA
23087
HEIGHT
13412
18-Dec-2023
10:16
linh
pham



AFTER

MASS
264
AREA
23087
HEIGHT
13412
18-Dec-2023
10:16
linh
pham



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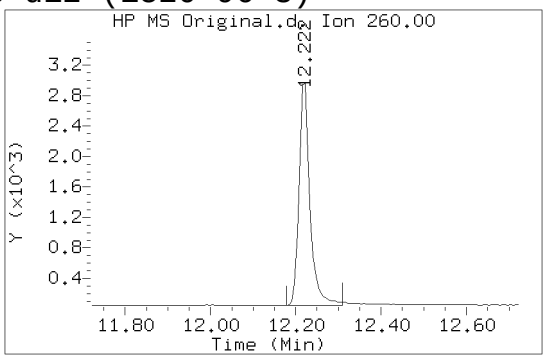
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Perylene-d12 (1520-96-3)

Reason Code:

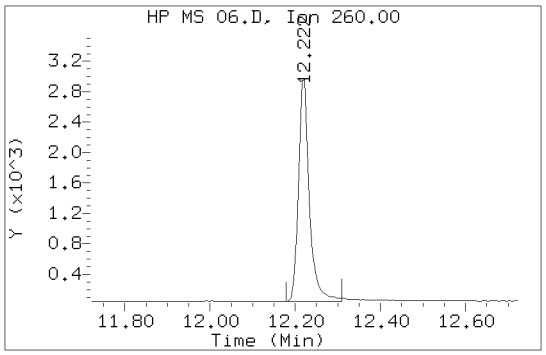
BEFORE

MASS
260
AREA
5258
HEIGHT
2908
18-Dec-2023
10:16
linh
pham



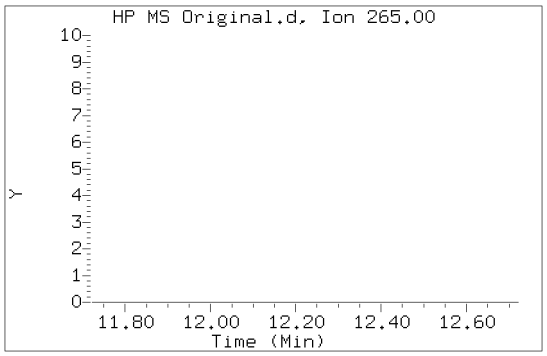
AFTER

MASS
260
AREA
5258
HEIGHT
2908
18-Dec-2023
10:16
linh
pham



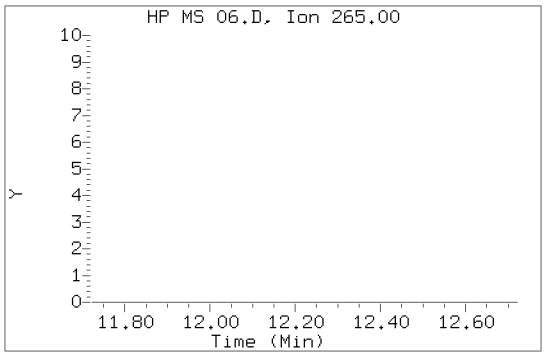
BEFORE

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
265
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

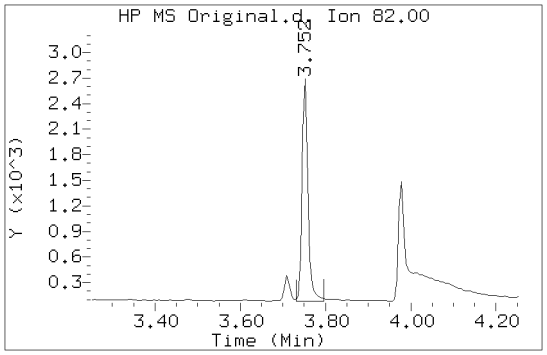


Nitrobenzene-d5 (4165-60-0)

Reason Code:

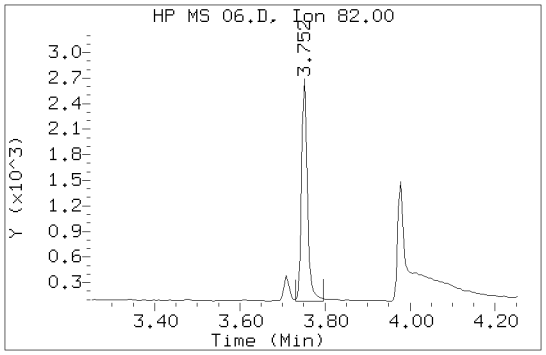
BEFORE

MASS
82
AREA
2458
HEIGHT
2608
18-Dec-2023
10:16
linh
pham



AFTER

MASS
82
AREA
2458
HEIGHT
2608
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
128
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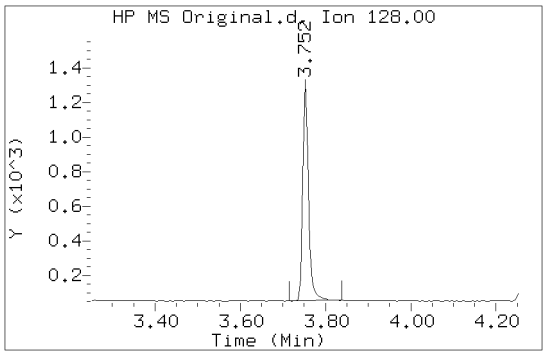
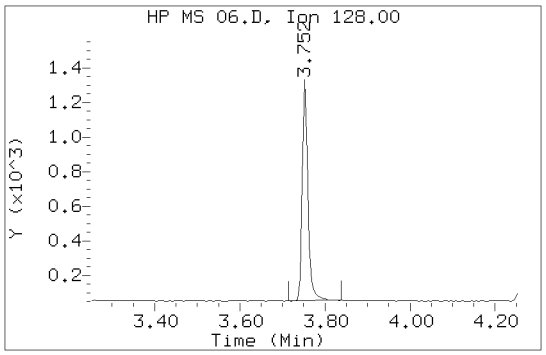
1148
HEIGHT
1278
18-Dec-2023
10:16
linh
pham



AFTER

MASS
128
AREA
1148
HEIGHT
1278
18-Dec-2023
10:16
linh
pham



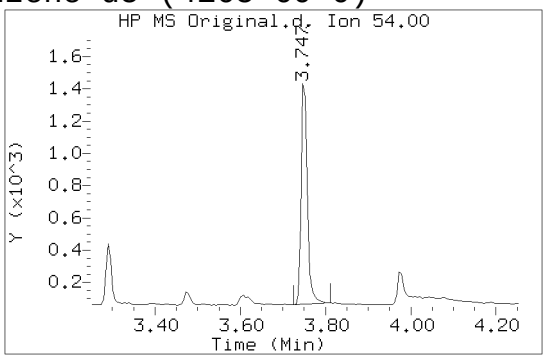
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

Nitrobenzene-d5 (4165-60-0)

Reason Code:

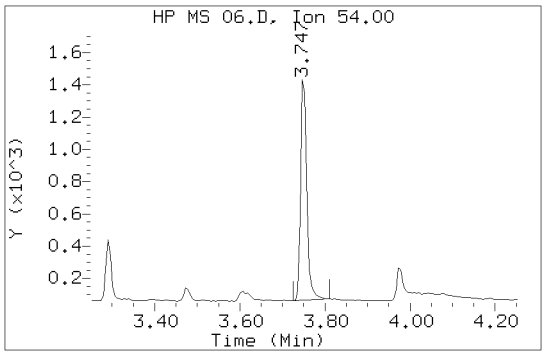
BEFORE

MASS
54
AREA
1358
HEIGHT
1367
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
1358
HEIGHT
1367
18-Dec-2023
10:16
linh
pham

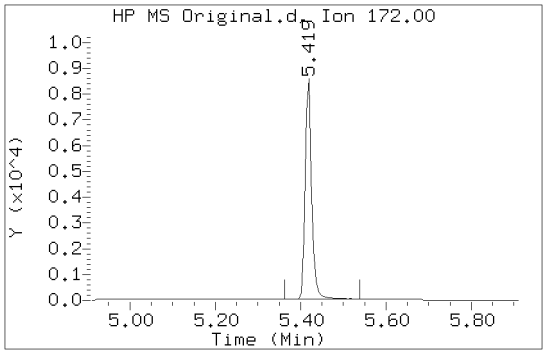


2-Fluorobiphenyl (321-60-8)

Reason Code:

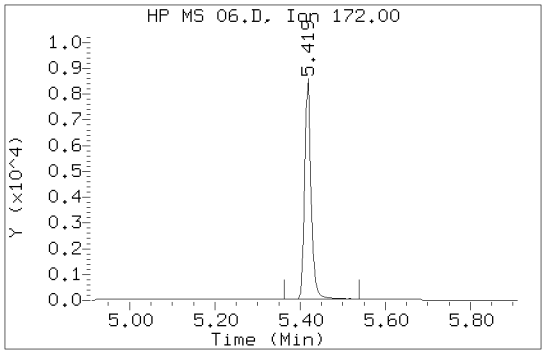
BEFORE

MASS
172
AREA
9114
HEIGHT
8547
18-Dec-2023
10:16
linh
pham



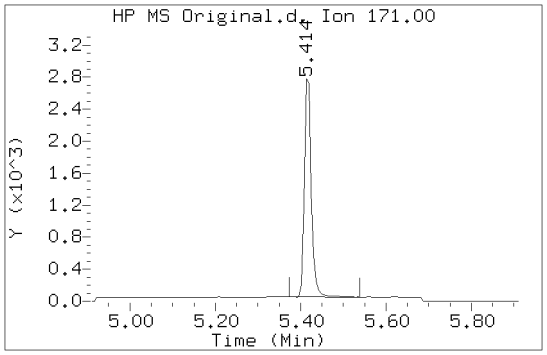
AFTER

MASS
172
AREA
9114
HEIGHT
8547
18-Dec-2023
10:16
linh
pham



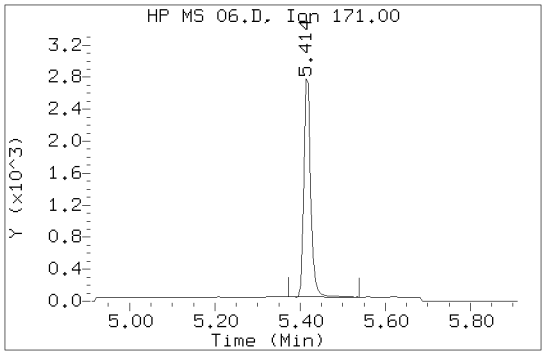
BEFORE

MASS
171
AREA
3093
HEIGHT
2724
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
3093
HEIGHT
2724
18-Dec-2023
10:16
linh
pham

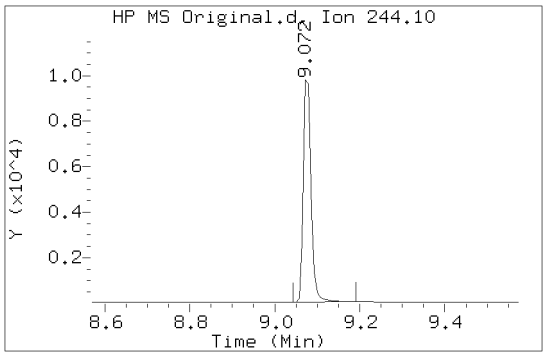


4-Terphenyl-d14 (1718-51-0)

Reason Code:

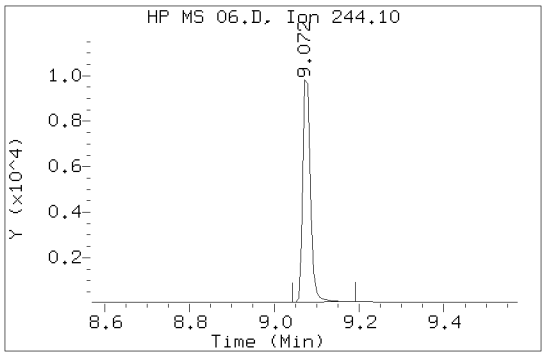
BEFORE

MASS
244.1
AREA
10988
HEIGHT
9765
18-Dec-2023
10:16
linh
pham



AFTER

MASS
244.1
AREA
10988
HEIGHT
9765
18-Dec-2023
10:16
linh
pham



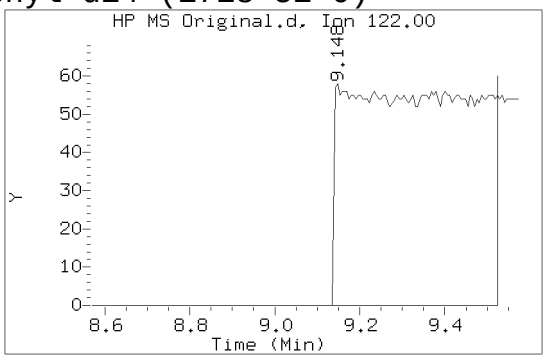
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\06.D
Inj Date : 12-DEC-2023 14:39
InstruID : SV6.i
LabSampID : PAHSIM-0.050

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

Reason Code:

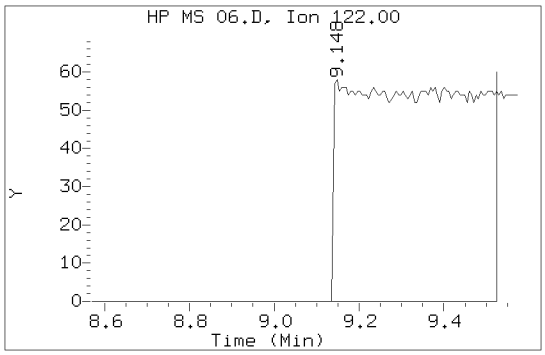
BEFORE

MASS
122
AREA
1270
HEIGHT
58
18-Dec-2023
10:16
linh
pham



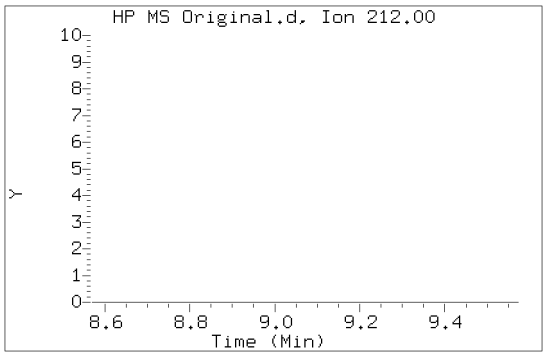
AFTER

MASS
122
AREA
1270
HEIGHT
58
18-Dec-2023
10:16
linh
pham



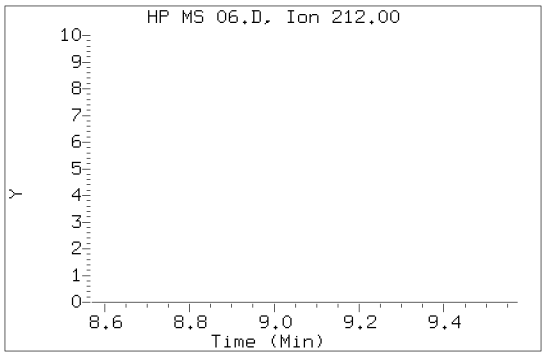
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Lab Smp Id: PAHSIM-0.10 Client Smp ID: PAHSIM-0.10
Inj Date : 12-DEC-2023 14:59
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 14:39 Cal File: 06.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	19512	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	5270	0.10000	0.09795(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	11904	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	18822	0.10000	0.09929
* 126 Phenanthrene-d10	188	7.499	7.499	(1.000)	24679	0.10000	(M)
* 182 Chrysene-d12	240	10.239	10.239	(1.000)	22845	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.071	9.071	(0.886)	22359	0.10000	0.09638(M)
* 198 Perylene-d12	264	12.216	12.216	(1.000)	23969	0.10000	(M)
46 Naphthalene	128	4.407	4.407	(1.004)	21296	0.10000	0.09948(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	14233	0.10000	0.09942(M)
62 1-Methylnaphthalene	142	5.150	5.150	(1.173)	13318	0.10000	0.09970(M)
83 Acenaphthylene	152	5.917	5.917	(0.977)	21551	0.10000	0.09901
88 Acenaphthene	154	6.080	6.080	(1.004)	13603	0.10000	0.09912(M)
98 Fluorene	166	6.583	6.583	(1.087)	16702	0.10000	0.09899
92 Dibenzofuran	168	6.718	6.718	(1.109)	8792	0.10000	0.09881(M)
128 Phenanthrene	178	7.518	7.518	(1.002)	26664	0.10000	0.09871(M)
130 Anthracene	178	7.568	7.568	(1.009)	26722	0.10000	0.09927(M)
149 Fluoranthene	202	8.676	8.676	(1.157)	31373	0.10000	0.09765(M)
155 Pyrene	202	8.895	8.895	(0.869)	33015	0.10000	0.09940(M)

181 Benzo(a)Anthracene	228	10.224	10.224 (0.999)	30502	0.10000	0.09846
183 Chrysene	228	10.269	10.269 (1.003)	34289	0.10000	0.09930(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.672	11.672	(0.956)	28420	0.10000	0.09552
195 Benzo(k)fluoranthene	252	11.710	11.710	(0.959)	35938	0.10000	0.09982(M)
197 Benzo(a)pyrene	252	12.134	12.134	(0.993)	27584	0.10000	0.09565(M)
209 Indeno(1,2,3-cd)pyrene	276	13.735	13.735	(1.124)	33508	0.10000	0.09710(M)
210 Dibenzo(a,h)anthracene	278	13.787	13.787	(1.129)	28282	0.10000	0.09867(M)
212 Benzo(g,h,i)perylene	276	14.100	14.100	(1.154)	30097	0.10000	0.09765(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D

Date : 12-DEC-2023 14:59

Client ID: PAHSIM-0.10

Instrument: SV6.i

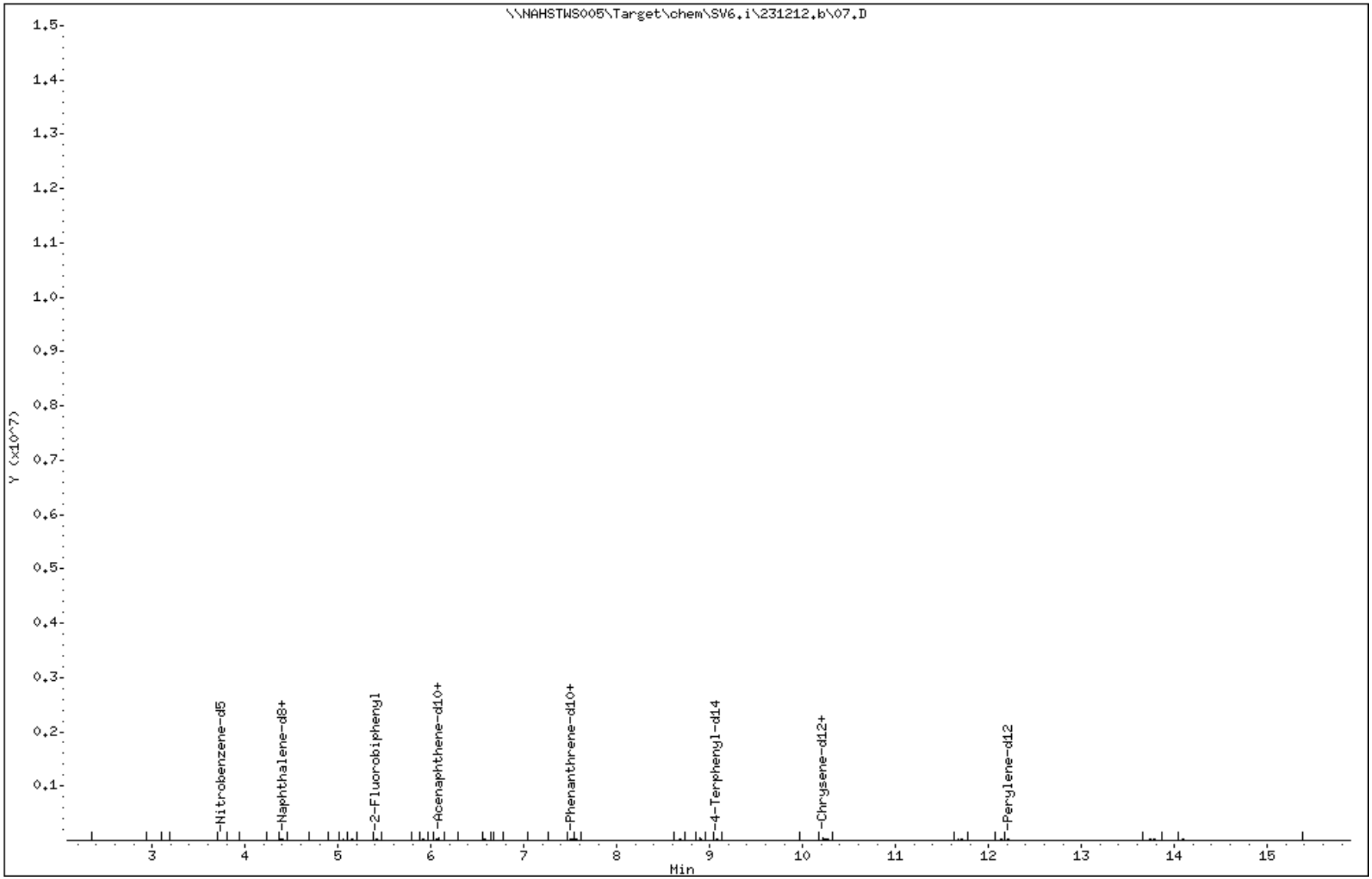
Sample Info: PAHSIM-0.10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



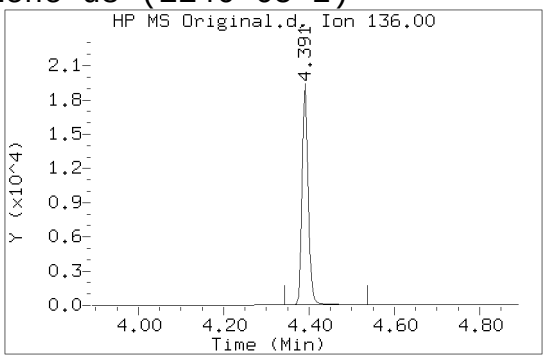
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Naphthalene-d8 (1146-65-2)

Reason Code:

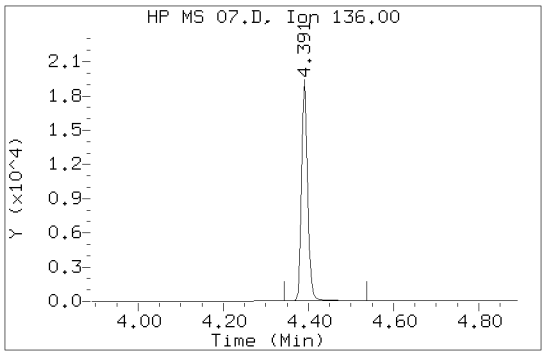
BEFORE

MASS
136
AREA
19512
HEIGHT
19368
18-Dec-2023
10:16
linh
pham



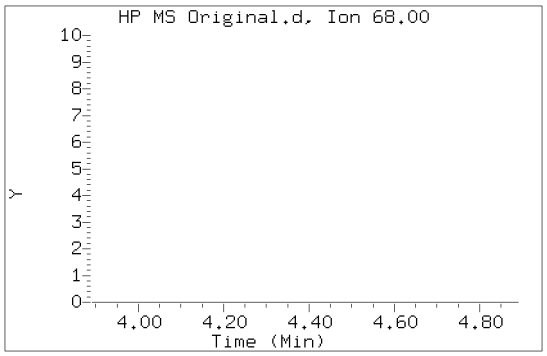
AFTER

MASS
136
AREA
19512
HEIGHT
19368
18-Dec-2023
10:16
linh
pham



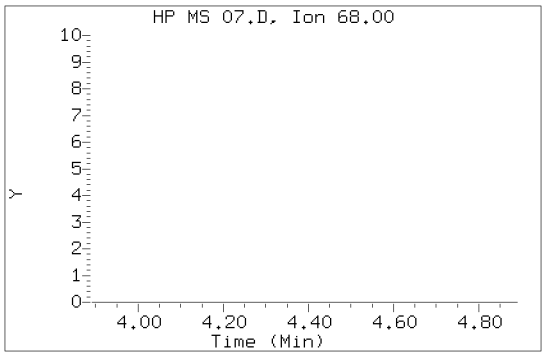
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

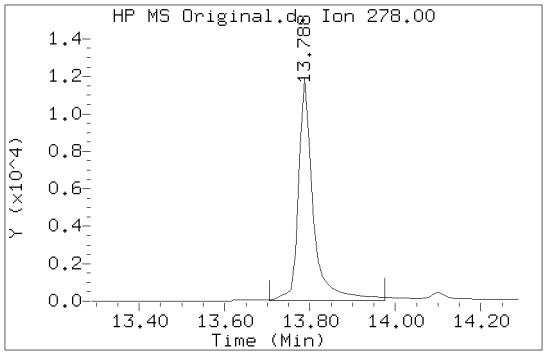


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

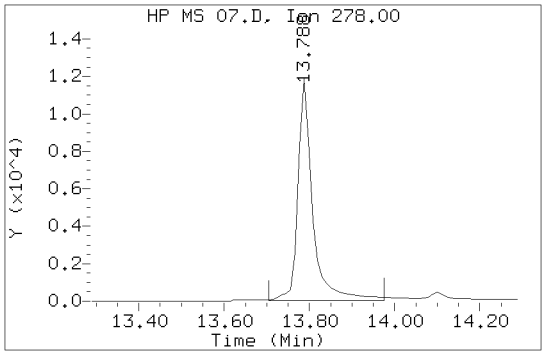
BEFORE

MASS
278
AREA
28282
HEIGHT
11824
18-Dec-2023
10:16
linh
pham



AFTER

MASS
278
AREA
28282
HEIGHT
11824
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
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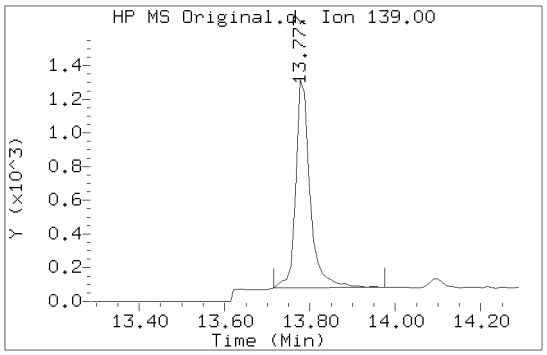
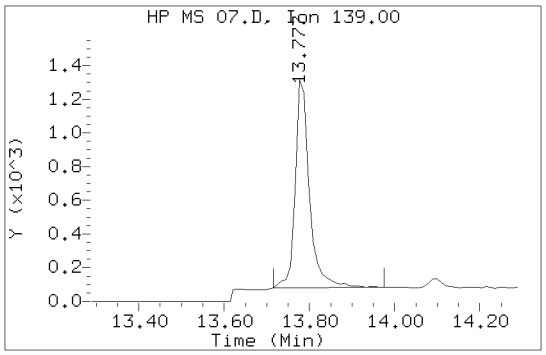
AREA
2840
HEIGHT
1234
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
2840
HEIGHT
1234
18-Dec-2023
10:16
linh
pham



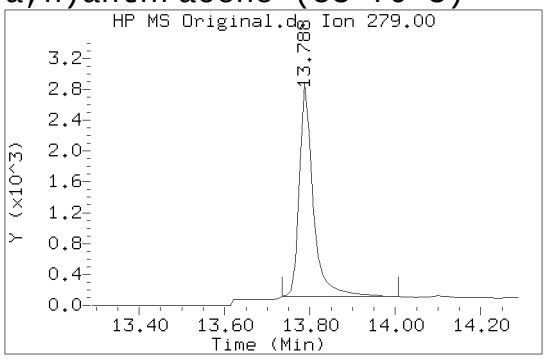
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

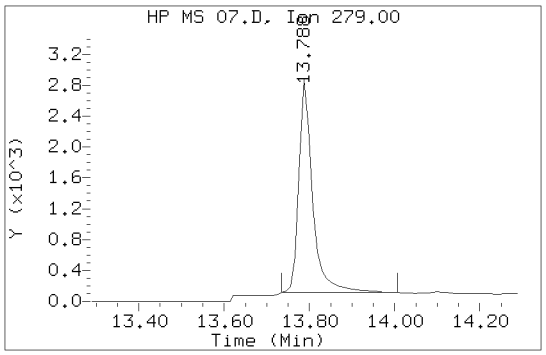
BEFORE

MASS
279
AREA
6189
HEIGHT
2758
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
6189
HEIGHT
2758
18-Dec-2023
10:16
linh
pham



Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

BEFORE

MASS
276
AREA
33508
HEIGHT
11840
18-Dec-2023
10:16
linh
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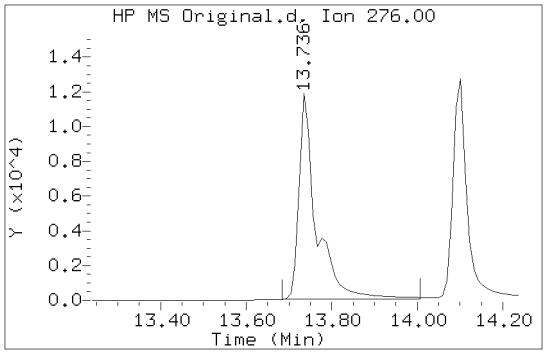

AFTER

MASS
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AREA
33508
HEIGHT
11840
18-Dec-2023
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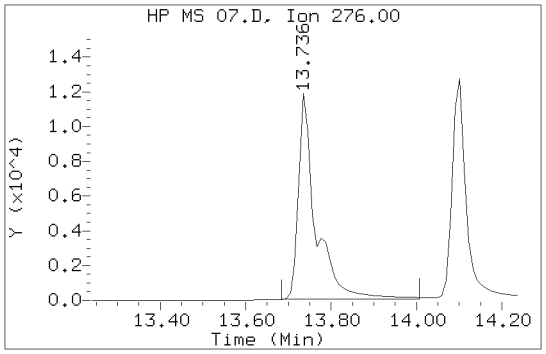

BEFORE

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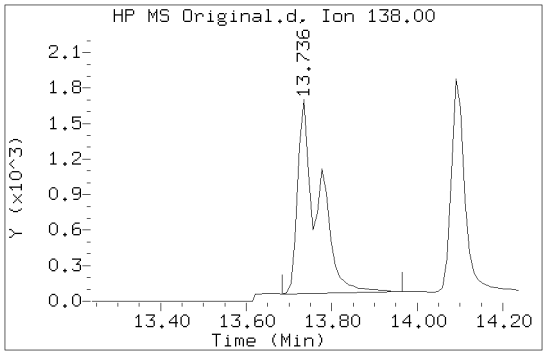
HEIGHT
1640
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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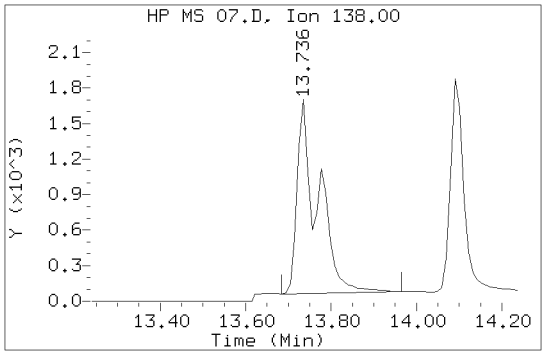
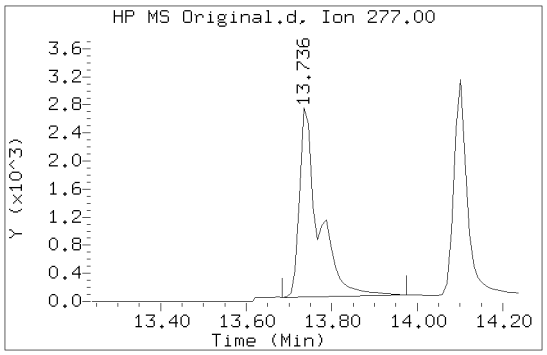
AREA
5471
HEIGHT
1640
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
277
AREA
8388
HEIGHT
2697
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
8388
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2697
18-Dec-2023
10:16
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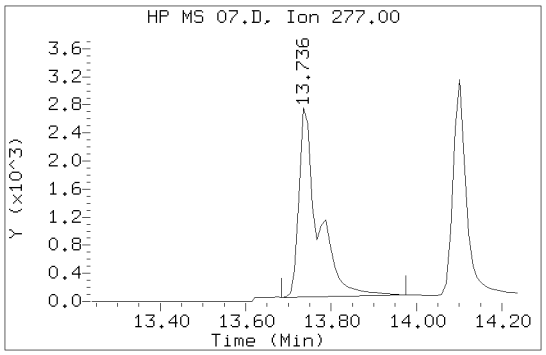


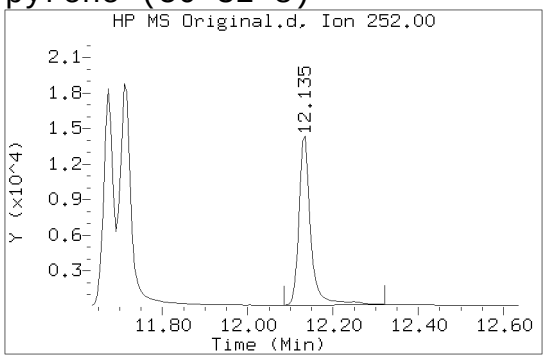
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(a)pyrene (50-32-8)

Reason Code:

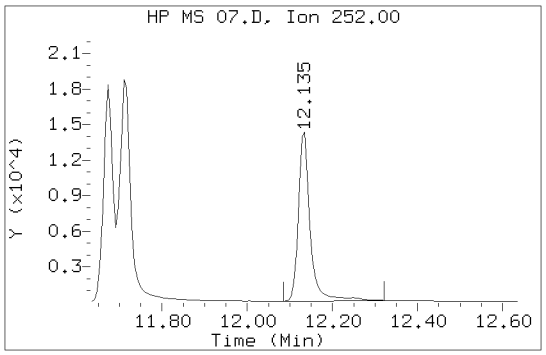
BEFORE

MASS
252
AREA
27584
HEIGHT
14228
18-Dec-2023
10:16
linh
pham



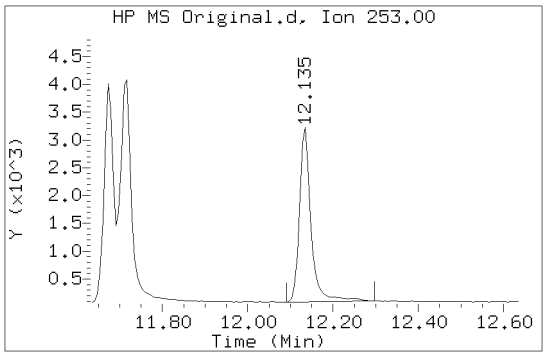
AFTER

MASS
252
AREA
27584
HEIGHT
14228
18-Dec-2023
10:16
linh
pham



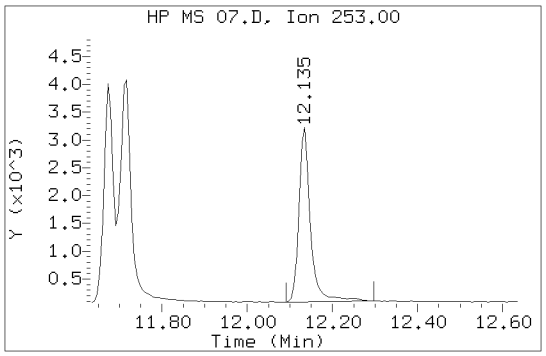
BEFORE

MASS
253
AREA
5979
HEIGHT
3142
18-Dec-2023
10:16
linh
pham



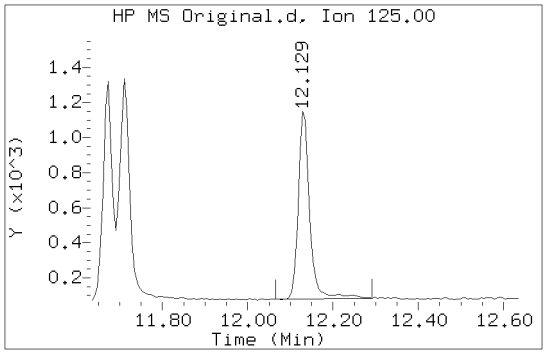
AFTER

MASS
253
AREA
5979
HEIGHT
3142
18-Dec-2023
10:16
linh
pham



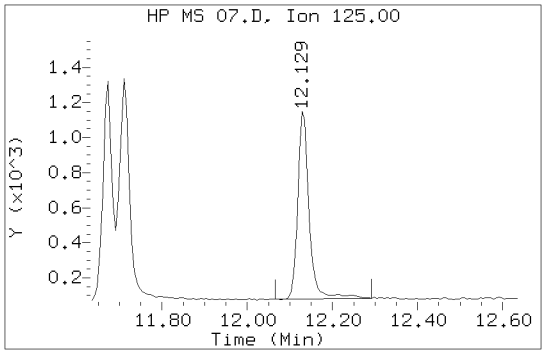
BEFORE

MASS
125
AREA
2024
HEIGHT
1072
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2024
HEIGHT
1072
18-Dec-2023
10:16
linh
pham

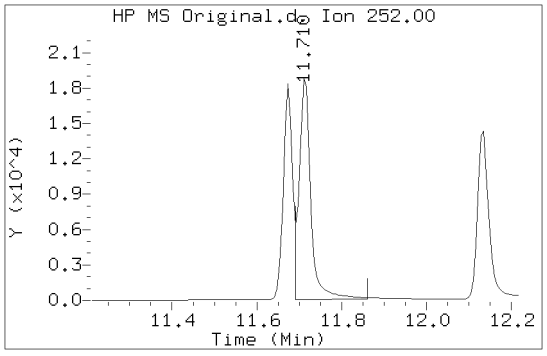


Benzo(k)fluoranthene (207-08-9)

Reason Code:

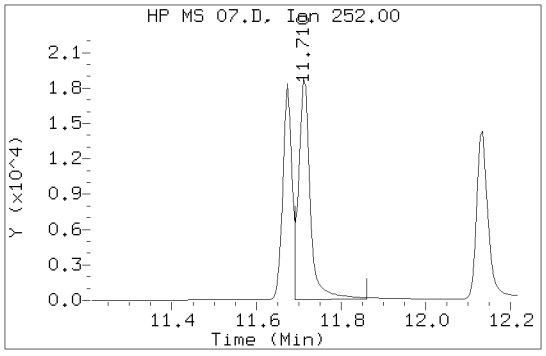
BEFORE

MASS
252
AREA
35938
HEIGHT
18711
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
35938
HEIGHT
18711
18-Dec-2023
10:16
linh
pham



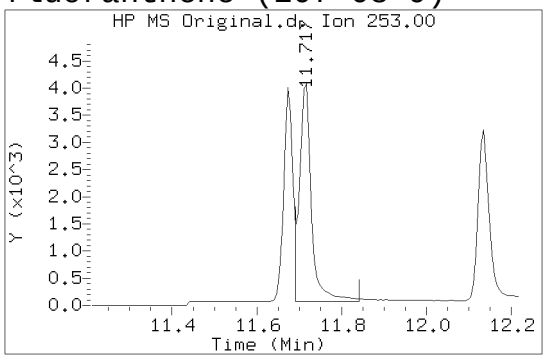
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(k)fluoranthene (207-08-9)

Reason Code:

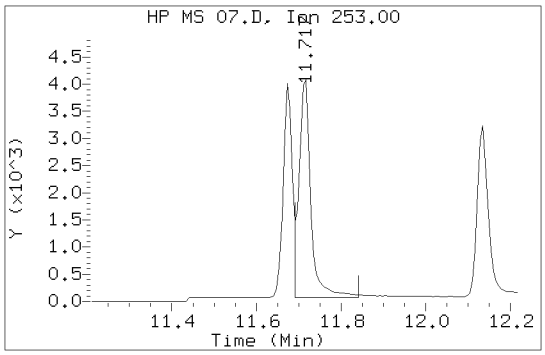
BEFORE

MASS
253
AREA
7883
HEIGHT
4006
18-Dec-2023
10:16
linh
pham



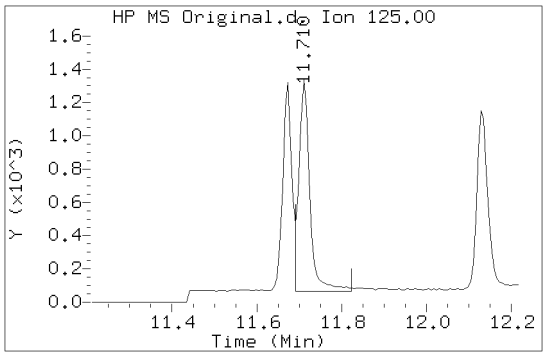
AFTER

MASS
253
AREA
7883
HEIGHT
4006
18-Dec-2023
10:16
linh
pham



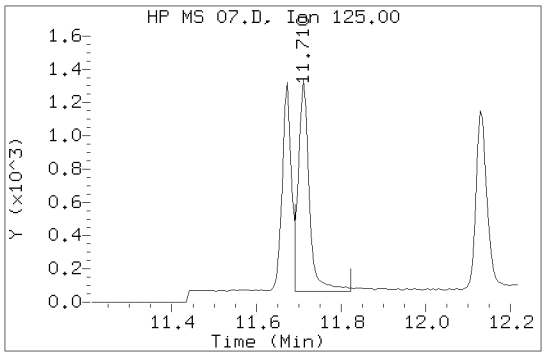
BEFORE

MASS
125
AREA
2290
HEIGHT
1271
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2290
HEIGHT
1271
18-Dec-2023
10:16
linh
pham

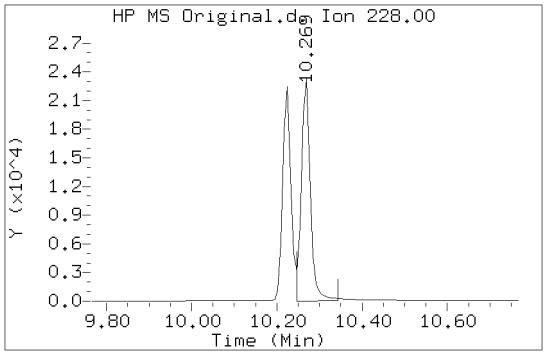


Chrysene (218-01-9)

Reason Code:

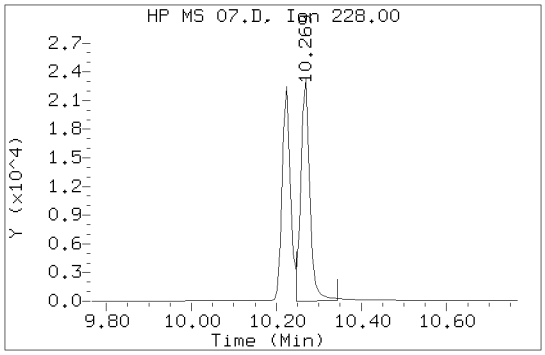
BEFORE

MASS
228
AREA
34289
HEIGHT
23251
18-Dec-2023
10:16
linh
pham



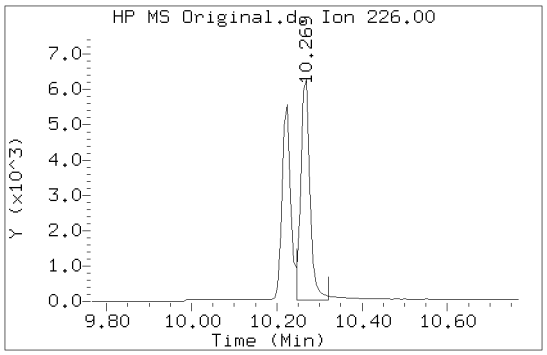
AFTER

MASS
228
AREA
34289
HEIGHT
23251
18-Dec-2023
10:16
linh
pham



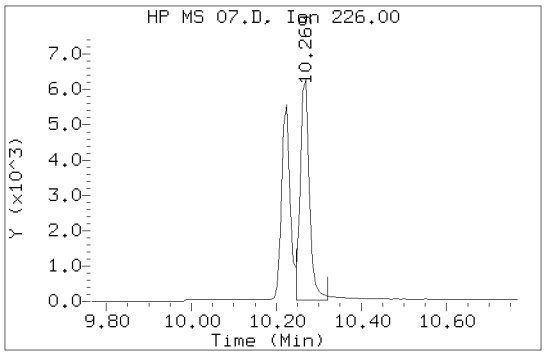
BEFORE

MASS
226
AREA
9345
HEIGHT
6231
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
9345
HEIGHT
6231
18-Dec-2023
10:16
linh
pham



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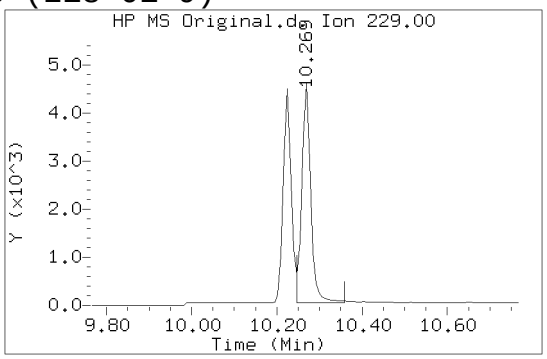
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Chrysene (218-01-9)

Reason Code:

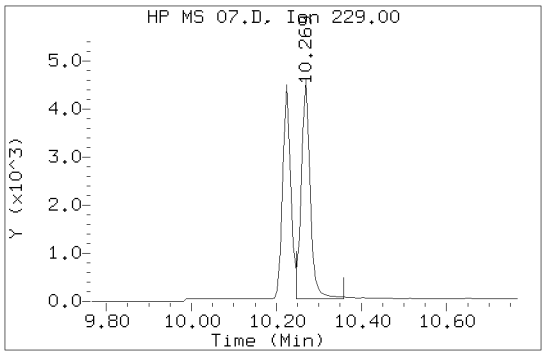
BEFORE

MASS
229
AREA
6617
HEIGHT
4549
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
6617
HEIGHT
4549
18-Dec-2023
10:16
linh
pham

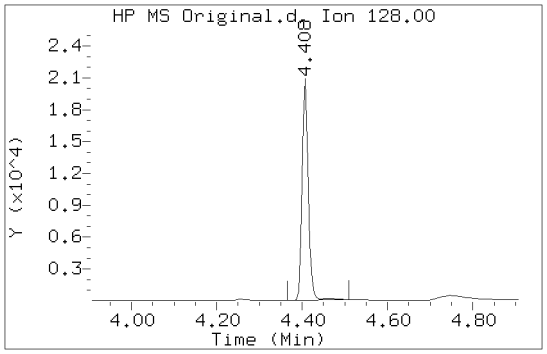


Naphthalene (91-20-3)

Reason Code:

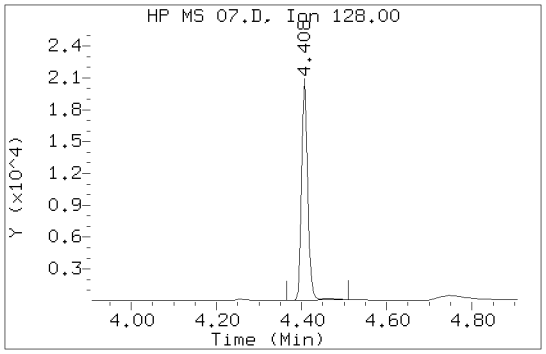
BEFORE

MASS
128
AREA
21296
HEIGHT
20843
18-Dec-2023
10:16
linh
pham



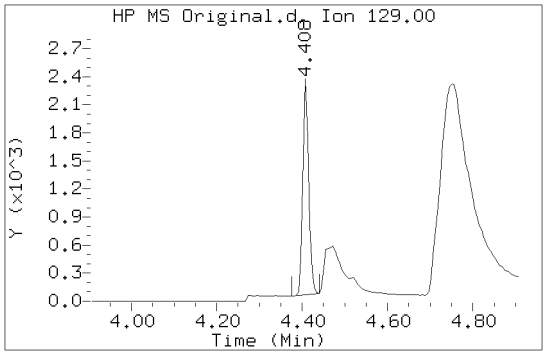
AFTER

MASS
128
AREA
21296
HEIGHT
20843
18-Dec-2023
10:16
linh
pham



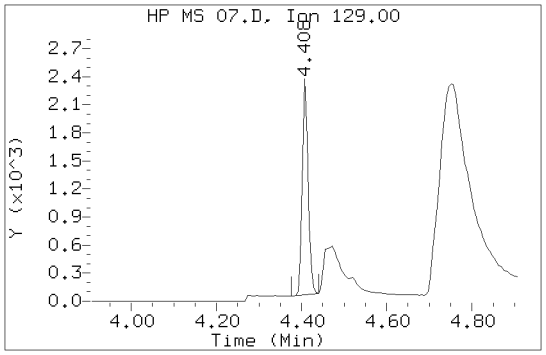
BEFORE

MASS
129
AREA
2240
HEIGHT
2307
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
2240
HEIGHT
2307
18-Dec-2023
10:16
linh
pham

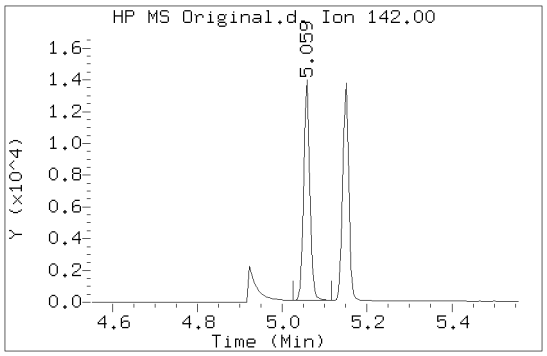


2-Methylnaphthalene (91-57-6)

Reason Code:

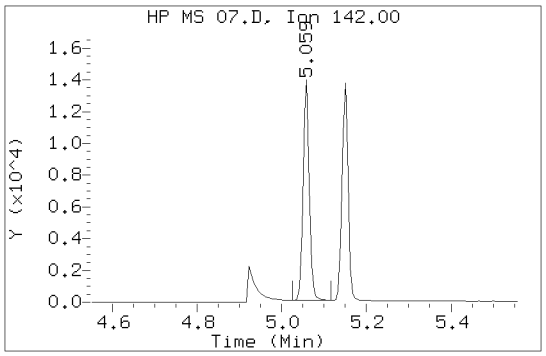
BEFORE

MASS
142
AREA
14233
HEIGHT
13888
18-Dec-2023
10:16
linh
pham



AFTER

MASS
142
AREA
14233
HEIGHT
13888
18-Dec-2023
10:16
linh
pham



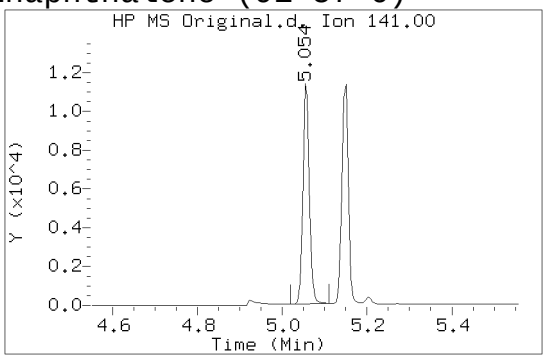
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

2-Methylnaphthalene (91-57-6)

Reason Code:

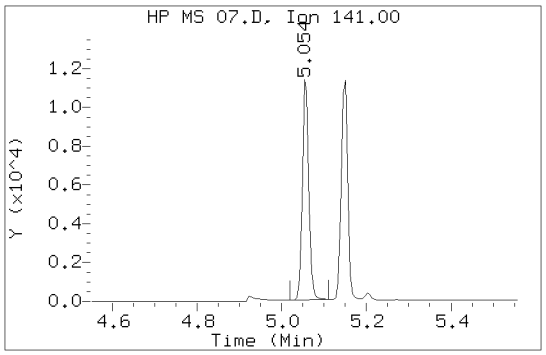
BEFORE

MASS
141
AREA
12052
HEIGHT
11352
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
12052
HEIGHT
11352
18-Dec-2023
10:16
linh
pham

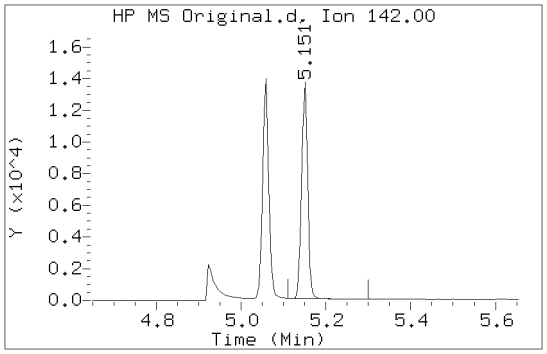


1-Methylnaphthalene (90-12-0)

Reason Code:

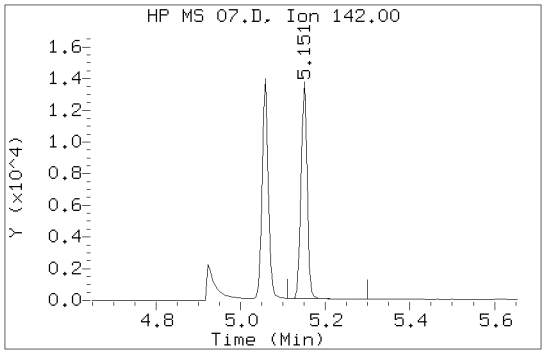
BEFORE

MASS
142
AREA
13318
HEIGHT
13673
18-Dec-2023
10:16
linh
pham



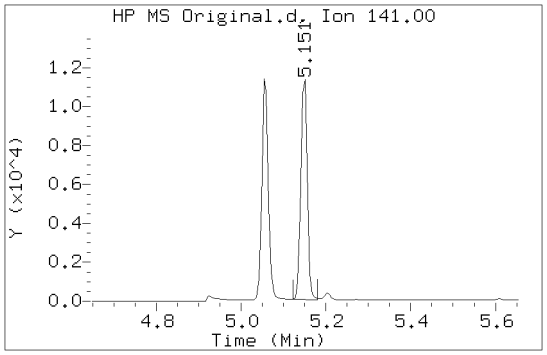
AFTER

MASS
142
AREA
13318
HEIGHT
13673
18-Dec-2023
10:16
linh
pham



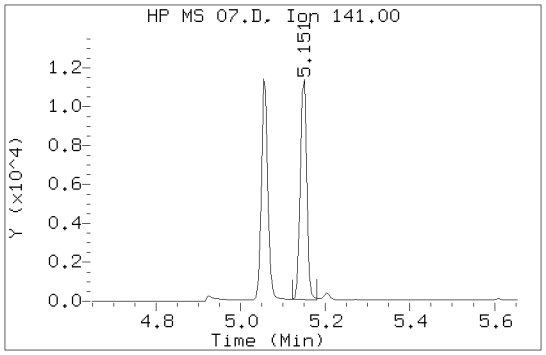
BEFORE

MASS
141
AREA
11830
HEIGHT
11336
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
11830
HEIGHT
11336
18-Dec-2023
10:16
linh
pham

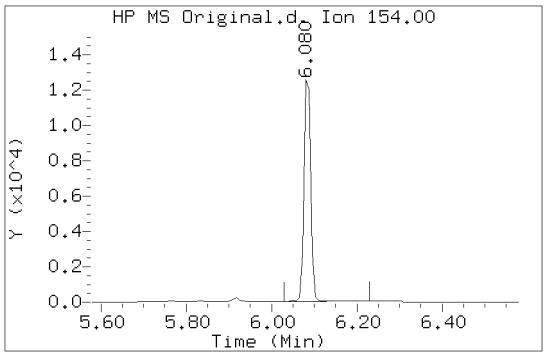


Acenaphthene (83-32-9)

Reason Code:

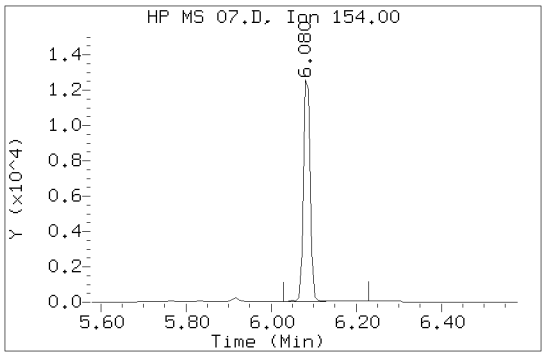
BEFORE

MASS
154
AREA
13603
HEIGHT
12524
18-Dec-2023
10:16
linh
pham



AFTER

MASS
154
AREA
13603
HEIGHT
12524
18-Dec-2023
10:16
linh
pham



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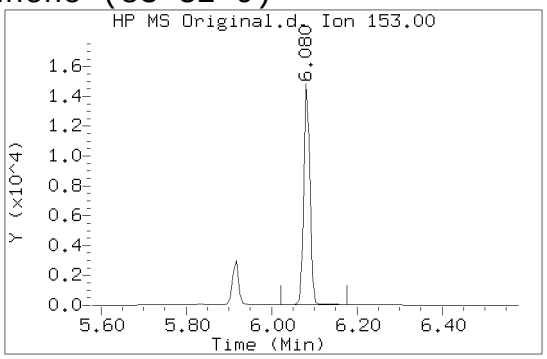
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Acenaphthene (83-32-9)

Reason Code:

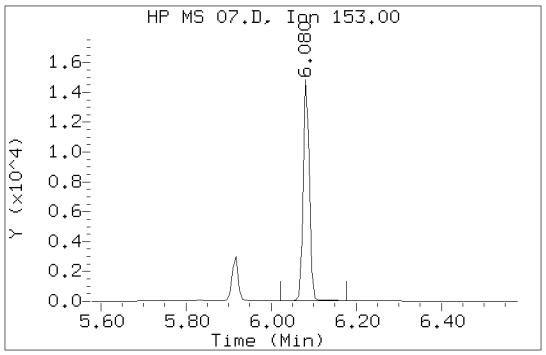
BEFORE

MASS
153
AREA
14490
HEIGHT
14790
18-Dec-2023
10:16
linh
pham



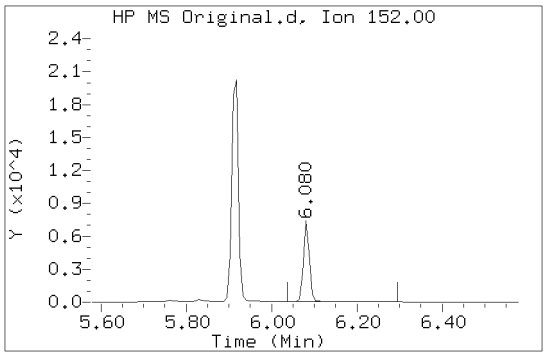
AFTER

MASS
153
AREA
14490
HEIGHT
14790
18-Dec-2023
10:16
linh
pham



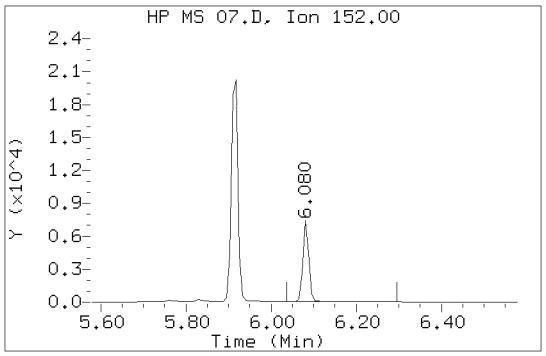
BEFORE

MASS
152
AREA
6880
HEIGHT
7355
18-Dec-2023
10:16
linh
pham



AFTER

MASS
152
AREA
6880
HEIGHT
7355
18-Dec-2023
10:16
linh
pham

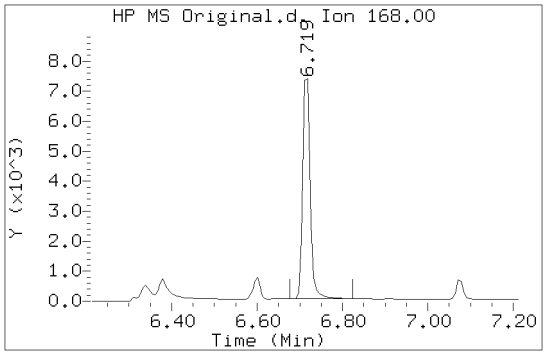


Dibenzofuran (132-64-9)

Reason Code:

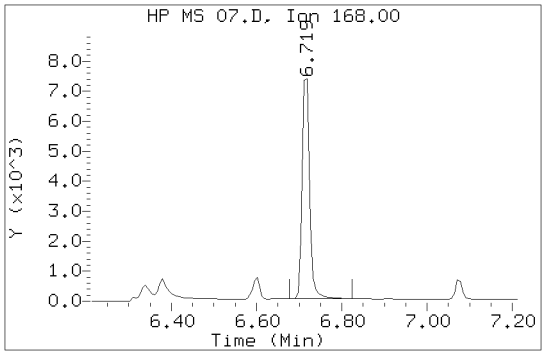
BEFORE

MASS
168
AREA
8792
HEIGHT
7327
18-Dec-2023
10:16
linh
pham



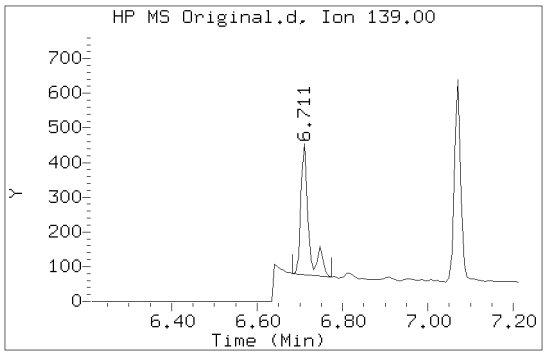
AFTER

MASS
168
AREA
8792
HEIGHT
7327
18-Dec-2023
10:16
linh
pham



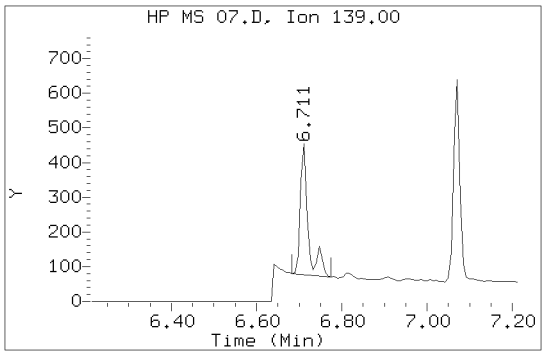
BEFORE

MASS
139
AREA
473
HEIGHT
378
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
473
HEIGHT
378
18-Dec-2023
10:16
linh
pham



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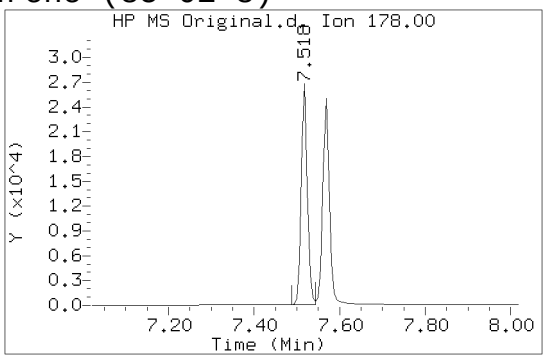
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Phenanthrene (85-01-8)

Reason Code:

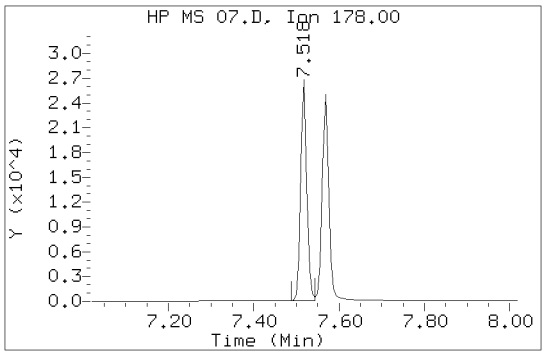
BEFORE

MASS
178
AREA
26664
HEIGHT
26751
18-Dec-2023
10:16
linh
pham



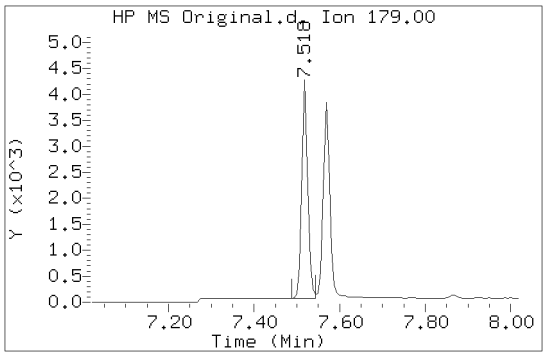
AFTER

MASS
178
AREA
26664
HEIGHT
26751
18-Dec-2023
10:16
linh
pham



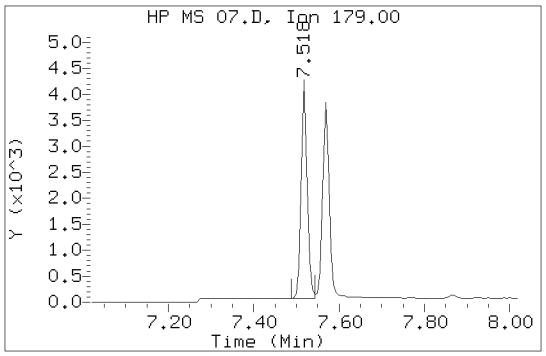
BEFORE

MASS
179
AREA
4073
HEIGHT
4203
18-Dec-2023
10:16
linh
pham



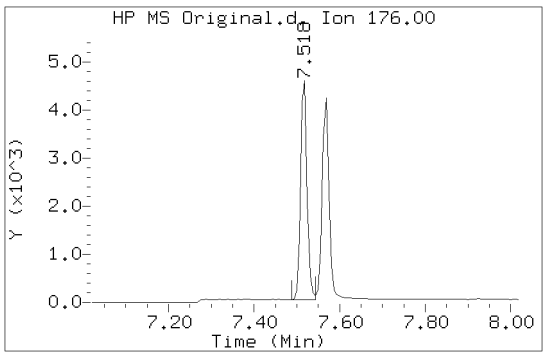
AFTER

MASS
179
AREA
4073
HEIGHT
4203
18-Dec-2023
10:16
linh
pham



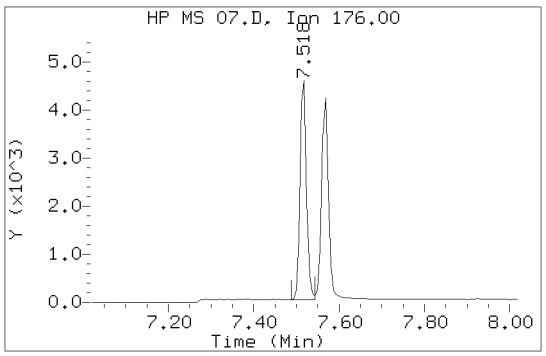
BEFORE

MASS
176
AREA
4840
HEIGHT
4560
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
4840
HEIGHT
4560
18-Dec-2023
10:16
linh
pham

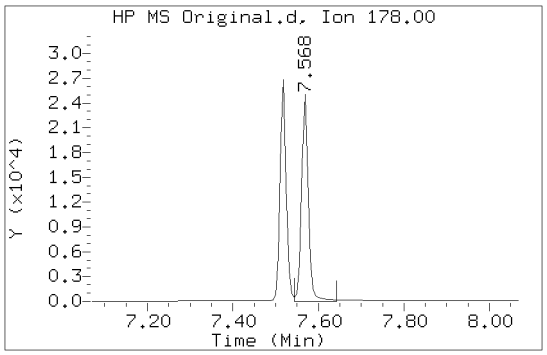


Anthracene (120-12-7)

Reason Code:

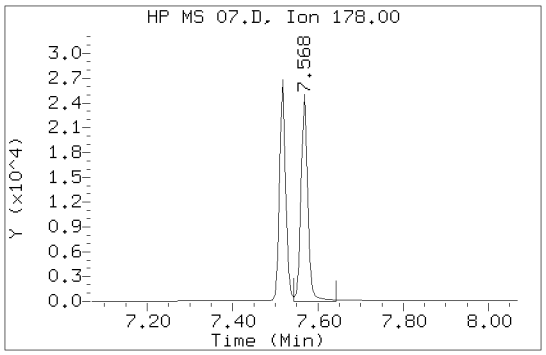
BEFORE

MASS
178
AREA
26722
HEIGHT
24990
18-Dec-2023
10:16
linh
pham



AFTER

MASS
178
AREA
26722
HEIGHT
24990
18-Dec-2023
10:16
linh
pham



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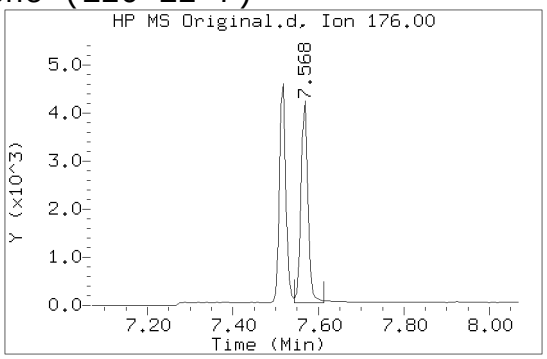
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Anthracene (120-12-7)

Reason Code:

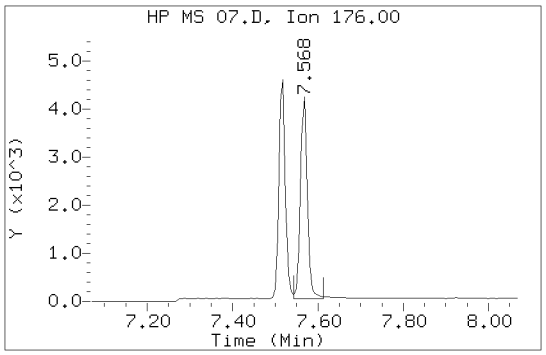
BEFORE

MASS
176
AREA
4599
HEIGHT
4199
18-Dec-2023
10:16
linh
pham



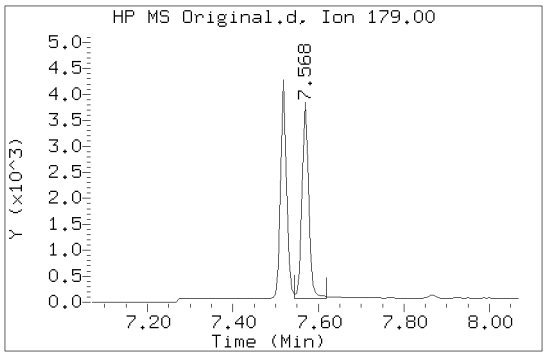
AFTER

MASS
176
AREA
4599
HEIGHT
4199
18-Dec-2023
10:16
linh
pham



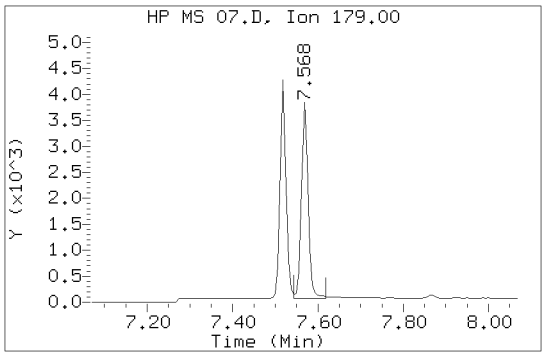
BEFORE

MASS
179
AREA
4004
HEIGHT
3773
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
4004
HEIGHT
3773
18-Dec-2023
10:16
linh
pham

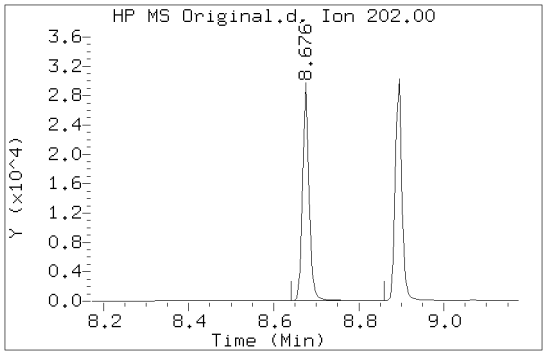


Fluoranthene (206-44-0)

Reason Code:

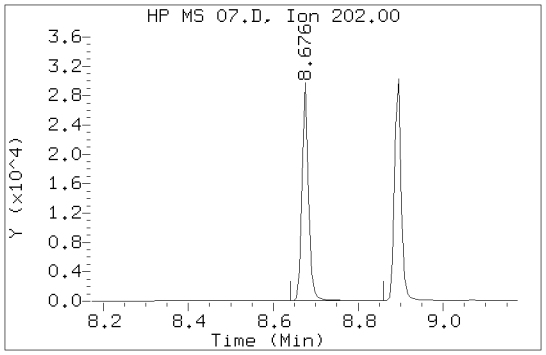
BEFORE

MASS
202
AREA
31373
HEIGHT
29653
18-Dec-2023
10:16
linh
pham



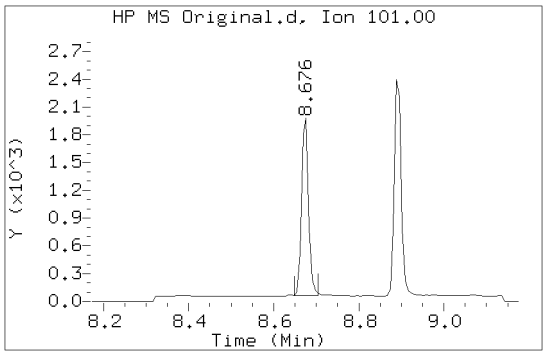
AFTER

MASS
202
AREA
31373
HEIGHT
29653
18-Dec-2023
10:16
linh
pham



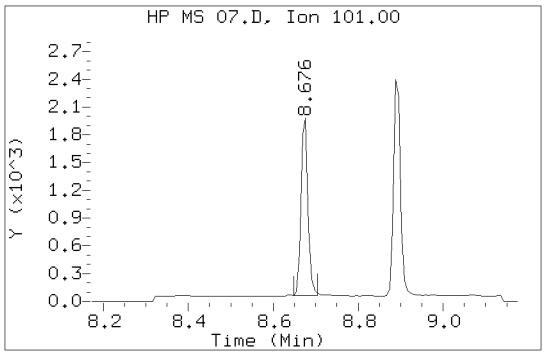
BEFORE

MASS
101
AREA
2172
HEIGHT
1917
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
2172
HEIGHT
1917
18-Dec-2023
10:16
linh
pham



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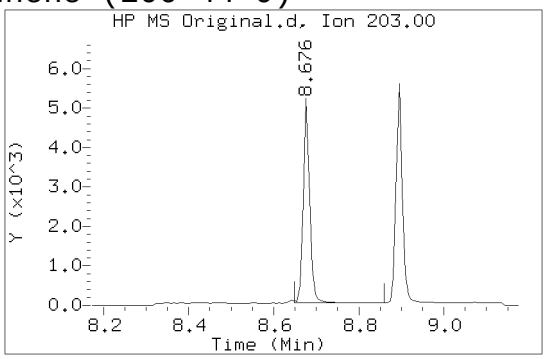
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Fluoranthene (206-44-0)

Reason Code:

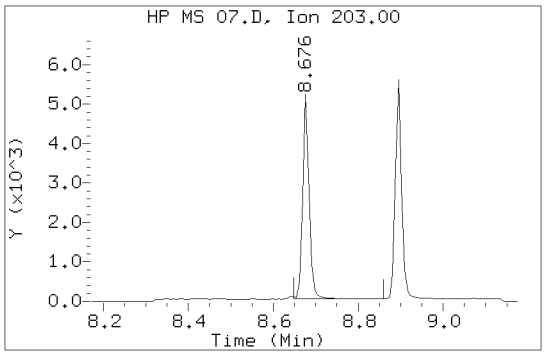
BEFORE

MASS
203
AREA
5447
HEIGHT
5185
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
5447
HEIGHT
5185
18-Dec-2023
10:16
linh
pham

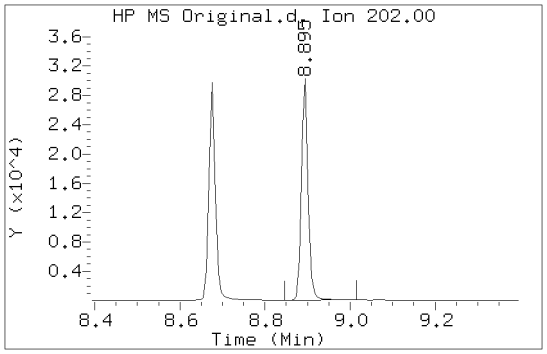


Pyrene (129-00-0)

Reason Code:

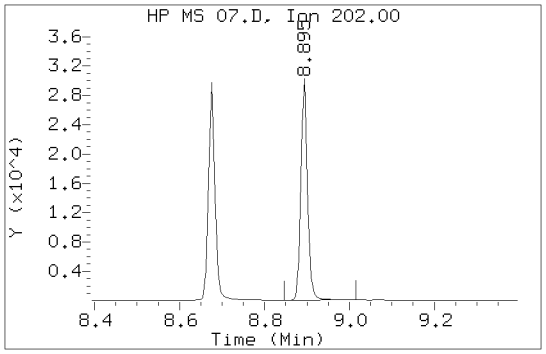
BEFORE

MASS
202
AREA
33015
HEIGHT
30195
18-Dec-2023
10:16
linh
pham



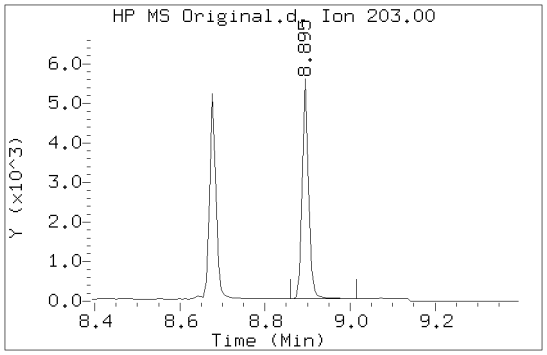
AFTER

MASS
202
AREA
33015
HEIGHT
30195
18-Dec-2023
10:16
linh
pham



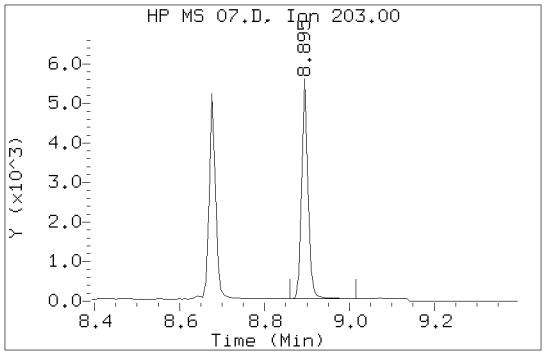
BEFORE

MASS
203
AREA
5785
HEIGHT
5558
18-Dec-2023
10:16
linh
pham



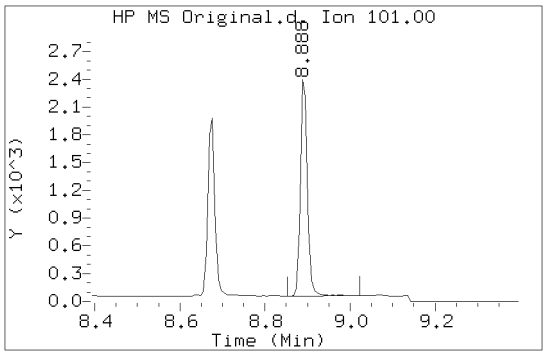
AFTER

MASS
203
AREA
5785
HEIGHT
5558
18-Dec-2023
10:16
linh
pham



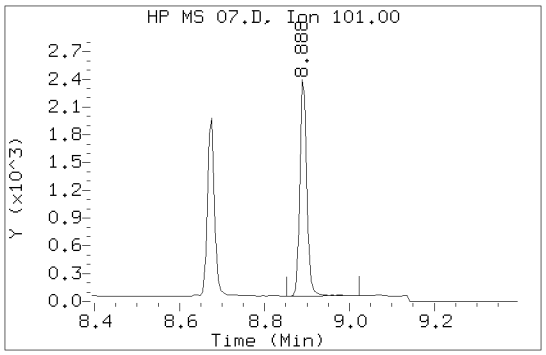
BEFORE

MASS
101
AREA
2688
HEIGHT
2337
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
2688
HEIGHT
2337
18-Dec-2023
10:16
linh
pham



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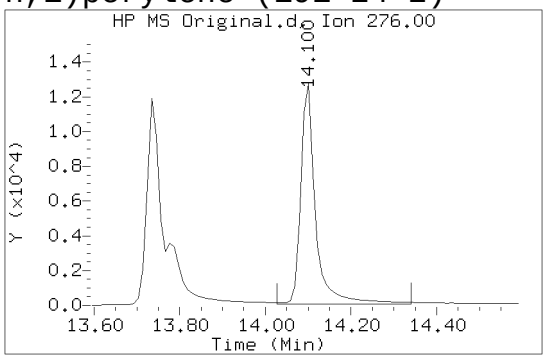
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

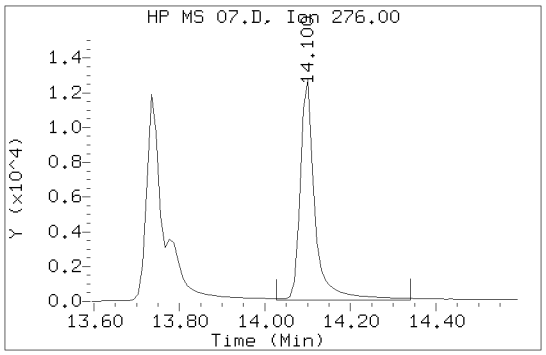
BEFORE

MASS
276
AREA
30097
HEIGHT
12666
18-Dec-2023
10:16
linh
pham



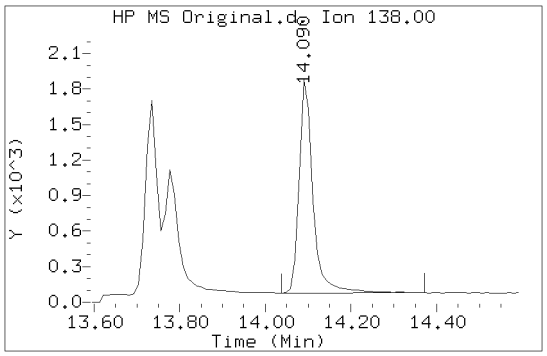
AFTER

MASS
276
AREA
30097
HEIGHT
12666
18-Dec-2023
10:16
linh
pham



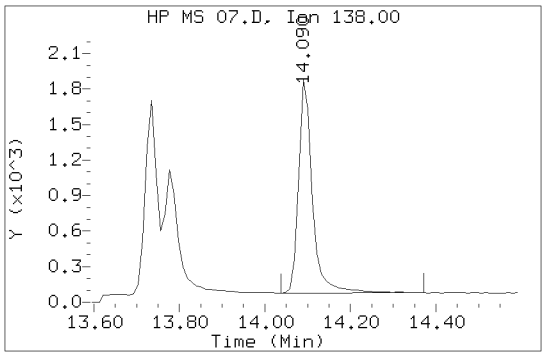
BEFORE

MASS
138
AREA
4031
HEIGHT
1800
18-Dec-2023
10:16
linh
pham



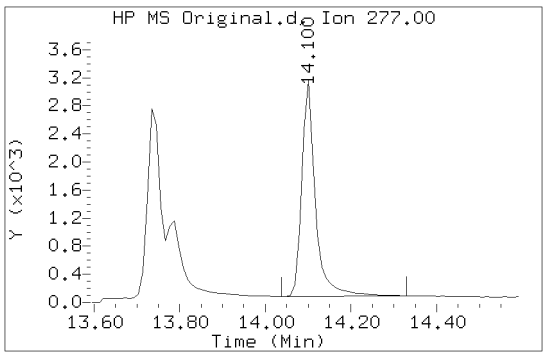
AFTER

MASS
138
AREA
4031
HEIGHT
1800
18-Dec-2023
10:16
linh
pham



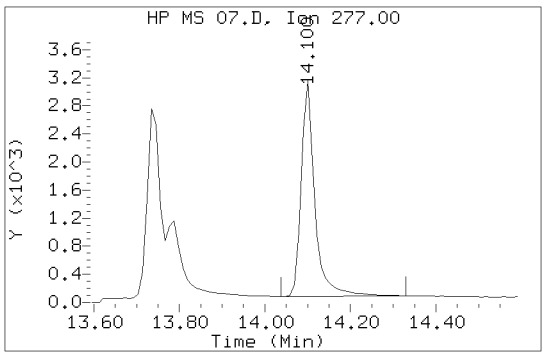
BEFORE

MASS
277
AREA
6760
HEIGHT
3073
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
6760
HEIGHT
3073
18-Dec-2023
10:16
linh
pham

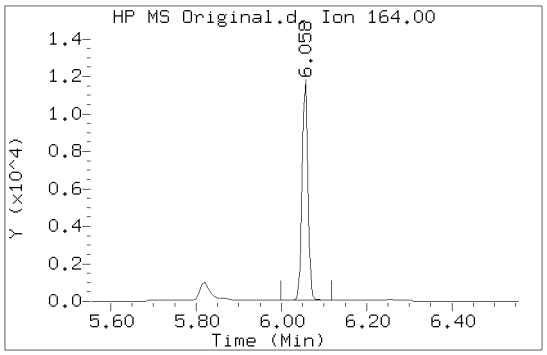


Acenaphthene-d10 (15067-26-2)

Reason Code:

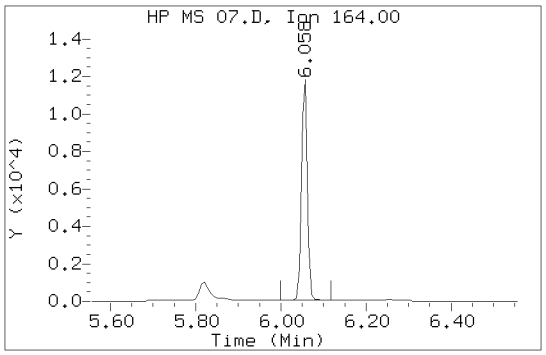
BEFORE

MASS
164
AREA
11904
HEIGHT
11762
18-Dec-2023
10:16
linh
pham



AFTER

MASS
164
AREA
11904
HEIGHT
11762
18-Dec-2023
10:16
linh
pham



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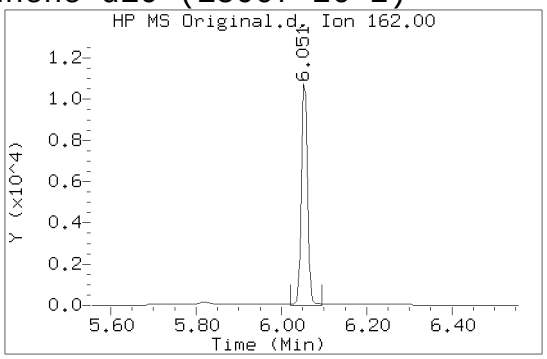
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Acenaphthene-d10 (15067-26-2)

Reason Code:

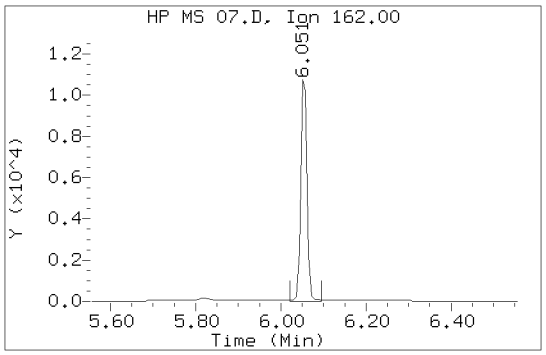
BEFORE

MASS
162
AREA
11741
HEIGHT
10753
18-Dec-2023
10:16
linh
pham



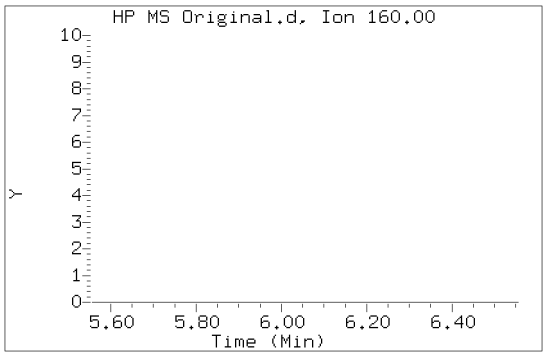
AFTER

MASS
162
AREA
11741
HEIGHT
10753
18-Dec-2023
10:16
linh
pham



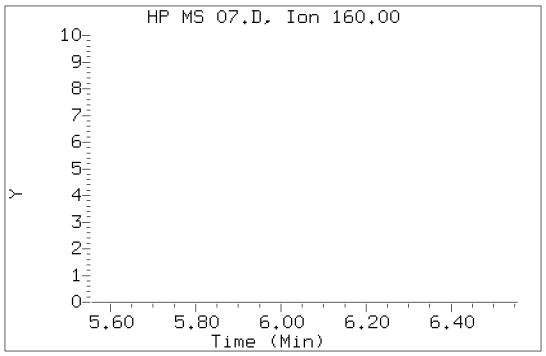
BEFORE

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

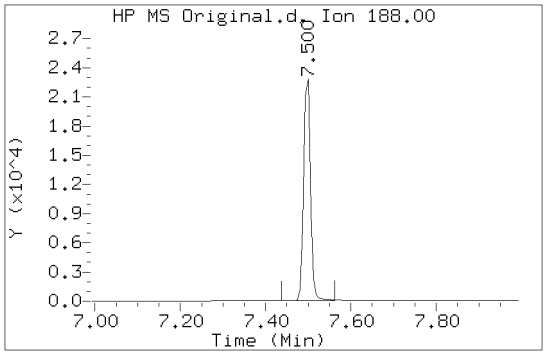


Phenanthrene-d10 (1517-22-2)

Reason Code:

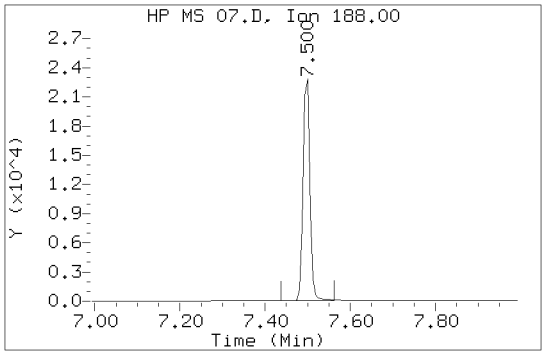
BEFORE

MASS
188
AREA
24679
HEIGHT
22800
18-Dec-2023
10:16
linh
pham



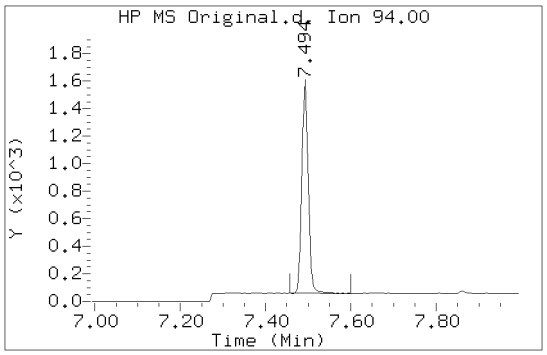
AFTER

MASS
188
AREA
24679
HEIGHT
22800
18-Dec-2023
10:16
linh
pham



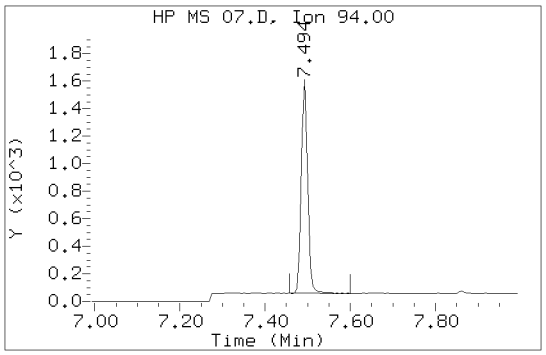
BEFORE

MASS
94
AREA
1578
HEIGHT
1551
18-Dec-2023
10:16
linh
pham



AFTER

MASS
94
AREA
1578
HEIGHT
1551
18-Dec-2023
10:16
linh
pham



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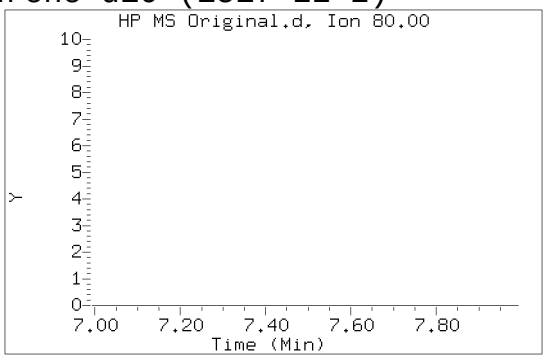
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

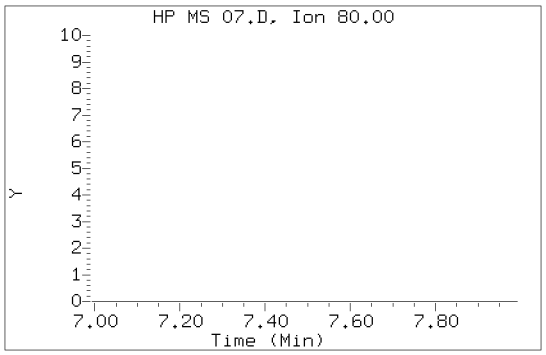
Phenanthrene-d10 (1517-22-2)

BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



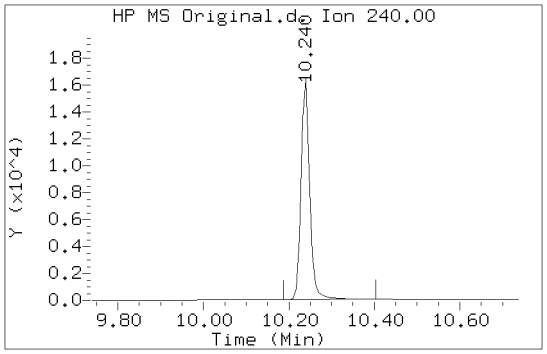
Reason Code:

AFTER
MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



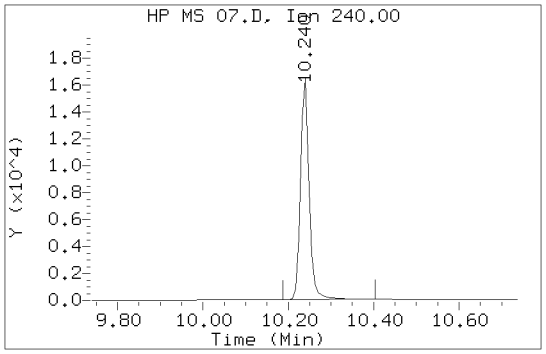
Chrysene-d12 (1719-03-5)

BEFORE
MASS
240
AREA
22845
HEIGHT
16421
18-Dec-2023
10:16
linh
pham



Reason Code:

AFTER
MASS
240
AREA
22845
HEIGHT
16421
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
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1643
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1278
18-Dec-2023
10:16
linh
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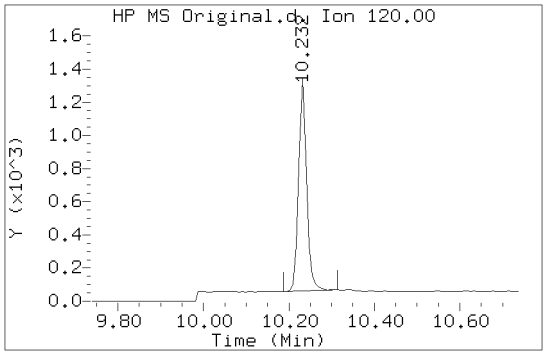

AFTER
MASS
120
AREA
1643
HEIGHT
1278
18-Dec-2023
10:16
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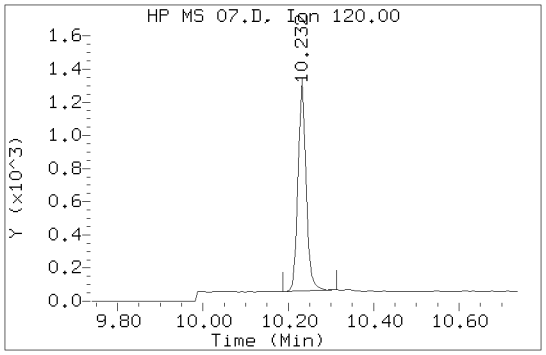

BEFORE
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236
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3946
18-Dec-2023
10:16
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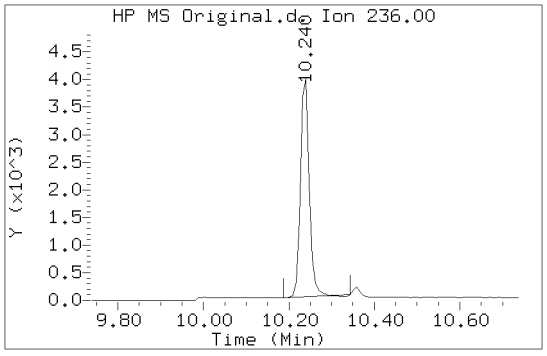

AFTER
MASS
236
AREA
5496
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3946
18-Dec-2023
10:16
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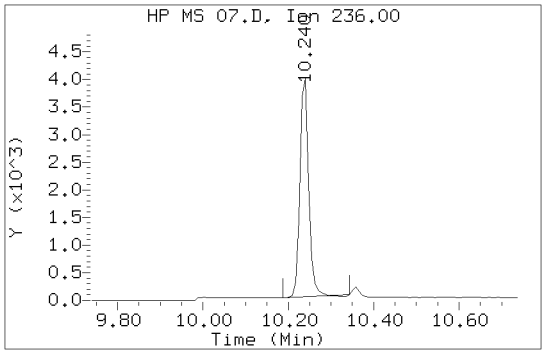
pham



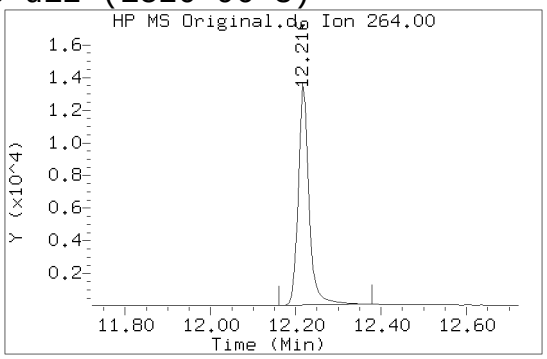
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Perylene-d12 (1520-96-3)

Reason Code:

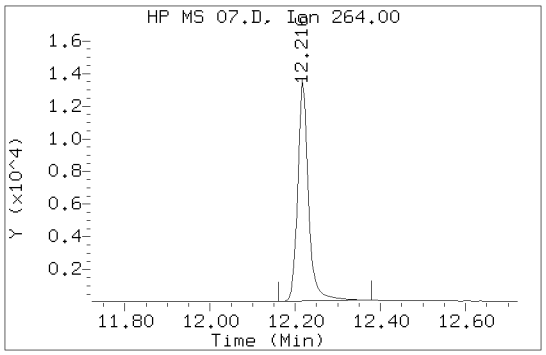
BEFORE

MASS
264
AREA
23969
HEIGHT
13558
18-Dec-2023
10:16
linh
pham



AFTER

MASS
264
AREA
23969
HEIGHT
13558
18-Dec-2023
10:16
linh
pham



BEFORE

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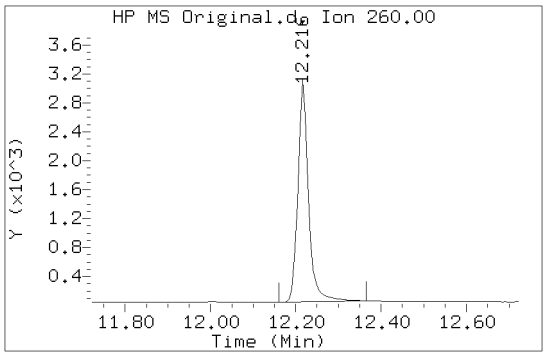
HEIGHT
3065
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
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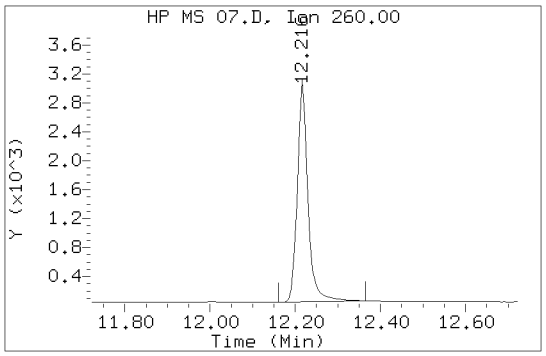
HEIGHT
3065
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
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AREA
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HEIGHT
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18-Dec-2023
10:16
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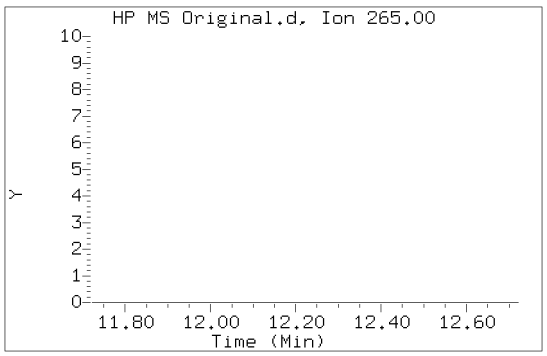
pham



AFTER

MASS
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AREA
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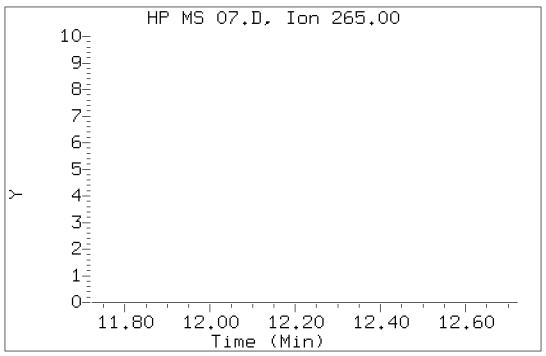
HEIGHT
0
18-Dec-2023
10:16
linh
pham

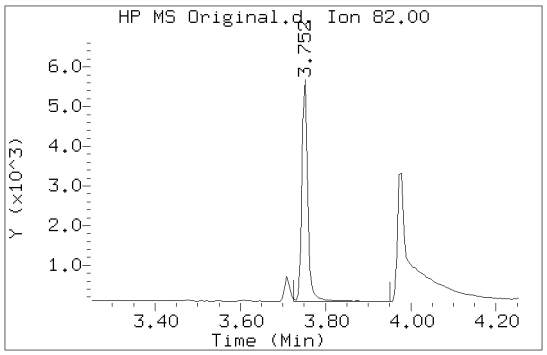


Nitrobenzene-d5 (4165-60-0)

Reason Code:

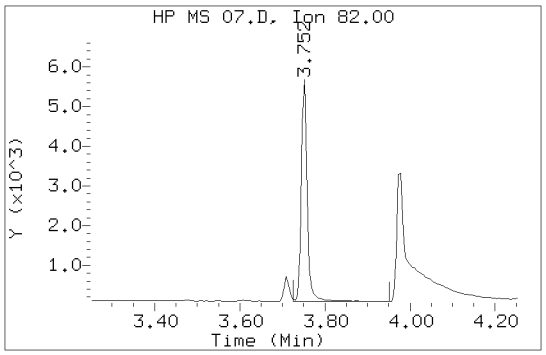
BEFORE

MASS
82
AREA
5270
HEIGHT
5585
18-Dec-2023
10:16
linh
pham



AFTER

MASS
82
AREA
5270
HEIGHT
5585
18-Dec-2023
10:16
linh
pham



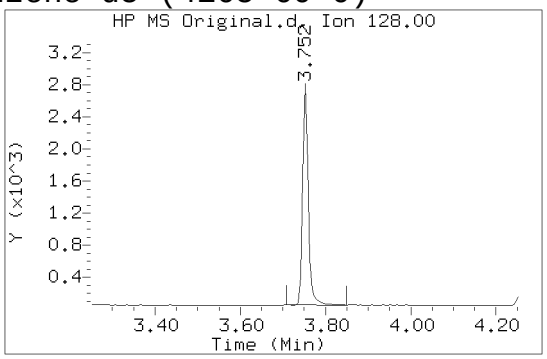
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\07.D
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

Nitrobenzene-d5 (4165-60-0)

Reason Code:

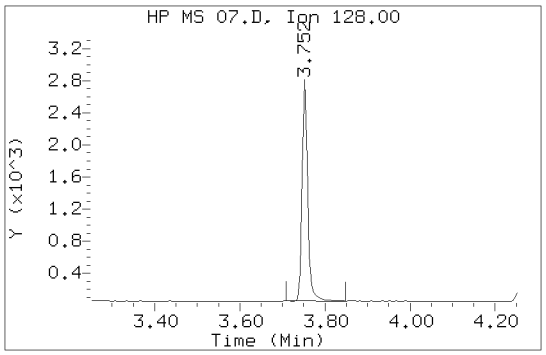
BEFORE

MASS
128
AREA
2446
HEIGHT
2758
18-Dec-2023
10:16
linh
pham



AFTER

MASS
128
AREA
2446
HEIGHT
2758
18-Dec-2023
10:16
linh
pham



BEFORE

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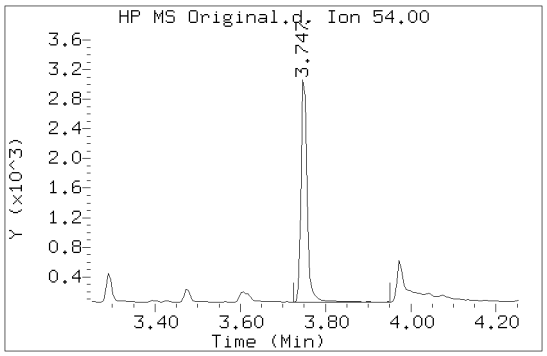
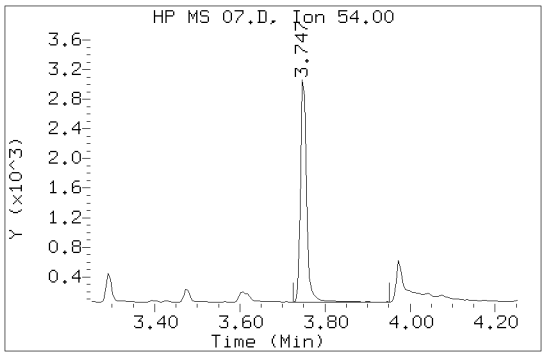
3000
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
2977
HEIGHT
3000
18-Dec-2023
10:16
linh
pham



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

Reason Code:

BEFORE

MASS
244.1
AREA
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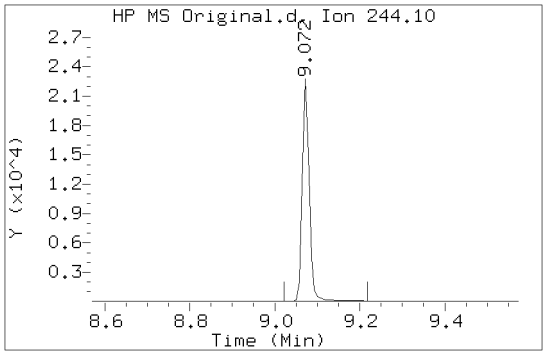
HEIGHT
22705
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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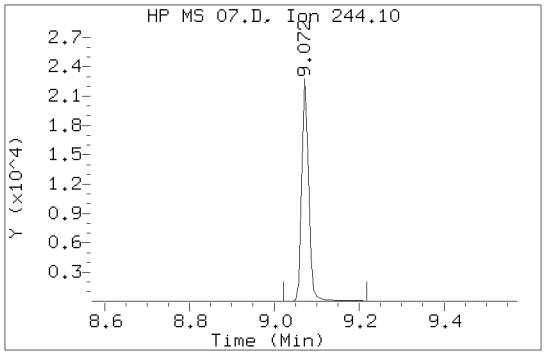
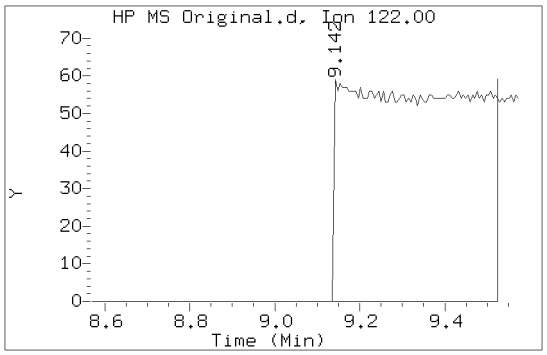
AREA
22359
HEIGHT
22705
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
122
AREA
1277
HEIGHT
59
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
1277
HEIGHT
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18-Dec-2023
10:16
linh
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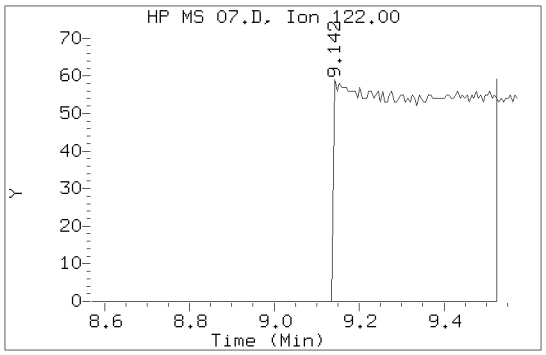

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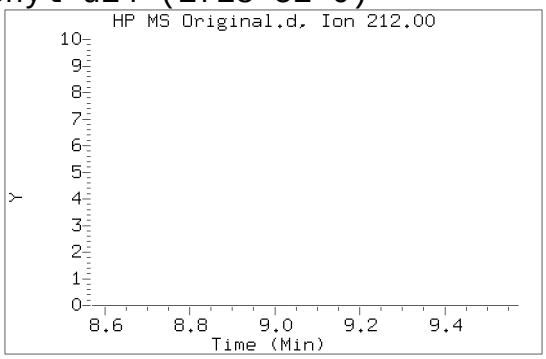
Inj Date : 12-DEC-2023 14:59
InstruID : SV6.i
LabSampID : PAHSIM-0.10

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

Reason Code:

BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
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HEIGHT
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18-Dec-2023
10:16
linh
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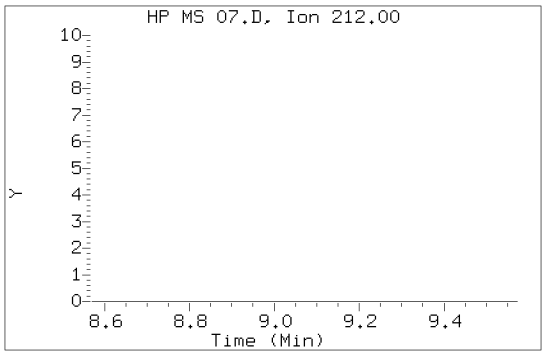


ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Lab Smp Id: PAHSIM-0.15 Client Smp ID: PAHSIM-0.15
Inj Date : 12-DEC-2023 15:19
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 14:59 Cal File: 07.D
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.sub
Target Version: 4.14
Processing Host: NAHSTW7056

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	17703	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	7134	0.15000	0.1461(M)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	10954	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	5.419	5.419	(0.895)	25774	0.15000	0.1478
* 126 Phenanthrene-d10	188	7.498	7.498	(1.000)	22321	0.10000	(M)
* 182 Chrysene-d12	240	10.243	10.243	(1.000)	20983	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.077	(0.886)	29263	0.15000	0.1373(M)
* 198 Perylene-d12	264	12.218	12.218	(1.000)	22219	0.10000	
46 Naphthalene	128	4.407	4.407	(1.004)	28695	0.15000	0.1477(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.184)	19417	0.15000	0.1495
62 1-Methylnaphthalene	142	5.151	5.151	(1.205)	18191	0.15000	0.1501
83 Acenaphthylene	152	5.917	5.917	(0.977)	29849	0.15000	0.1490
88 Acenaphthene	154	6.087	6.087	(1.005)	18502	0.15000	0.1465
98 Fluorene	166	6.588	6.588	(1.087)	22870	0.15000	0.1473
92 Dibenzofuran	168	6.717	6.717	(1.109)	12028	0.15000	0.1469(M)
128 Phenanthrene	178	7.517	7.517	(1.002)	36355	0.15000	0.1488
130 Anthracene	178	7.566	7.566	(1.009)	36102	0.15000	0.1483(M)
149 Fluoranthene	202	8.674	8.674	(1.157)	42723	0.15000	0.1470(M)
155 Pyrene	202	8.893	8.893	(0.868)	45084	0.15000	0.1478(M)

181 Benzo(a)Anthracene	228	10.228	10.228 (0.999)	42014	0.15000	0.1477(M)
183 Chrysene	228	10.265	10.265 (1.002)	46100	0.15000	0.1454(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.675	11.675	(0.956)	39827	0.15000	0.1444(M)
195 Benzo(k)fluoranthene	252	11.712	11.712	(0.959)	50384	0.15000	0.1510
197 Benzo(a)pyrene	252	12.137	12.137	(0.993)	38902	0.15000	0.1455(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.738	(1.124)	46491	0.15000	0.1453(M)
210 Dibenzo(a,h)anthracene	278	13.790	13.790	(1.129)	39497	0.15000	0.1486(M)
212 Benzo(g,h,i)perylene	276	14.103	14.103	(1.154)	42774	0.15000	0.1497(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D

Date : 12-DEC-2023 15:19

Client ID: PAHSIM-0.15

Instrument: SV6.i

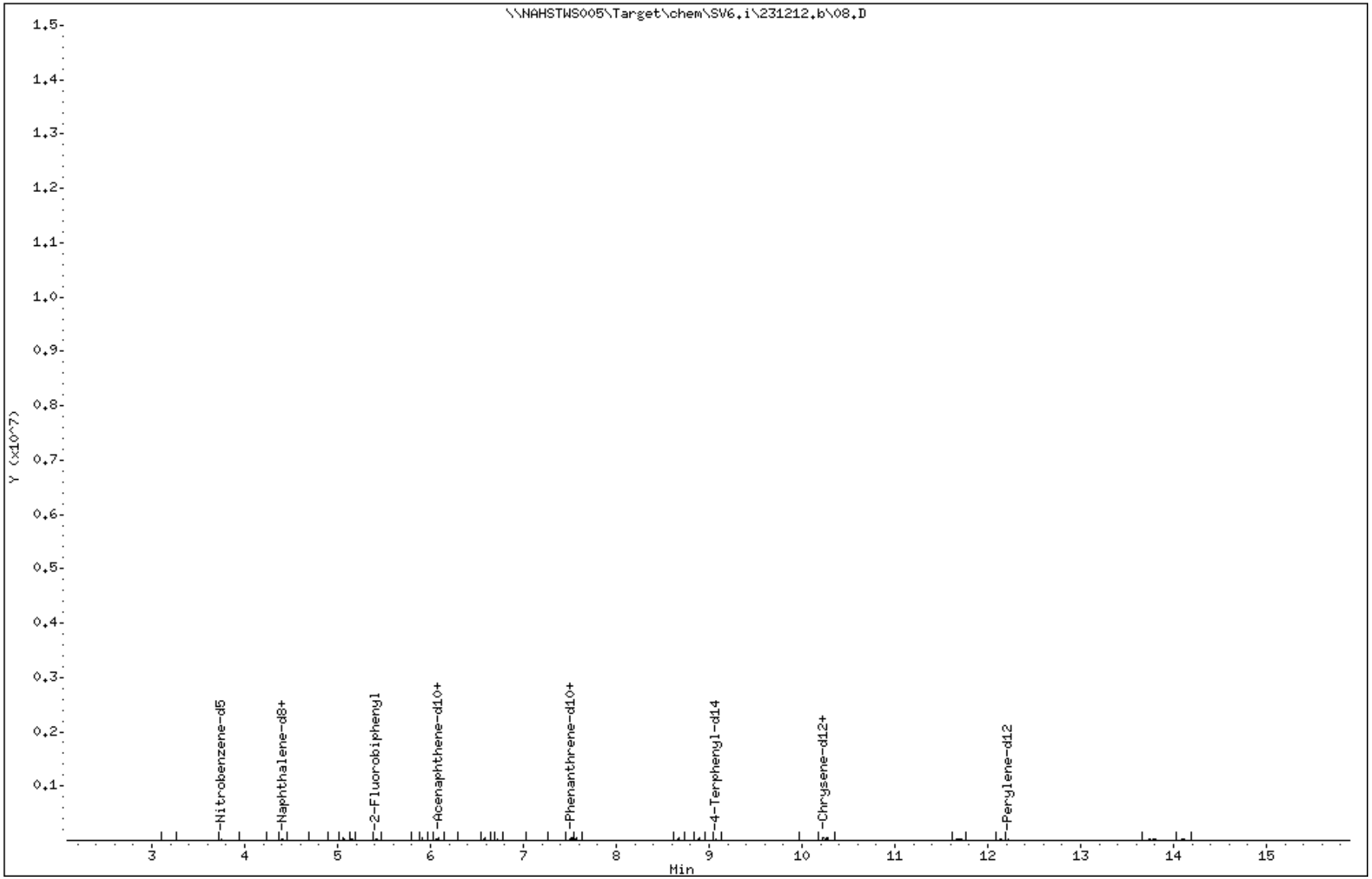
Sample Info: PAHSIM-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



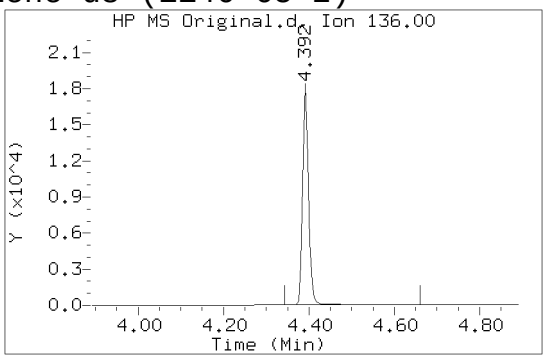
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Naphthalene-d8 (1146-65-2)

Reason Code:

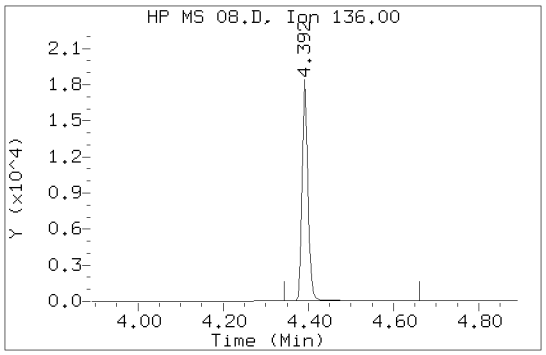
BEFORE

MASS
136
AREA
17703
HEIGHT
18361
18-Dec-2023
10:16
linh
pham



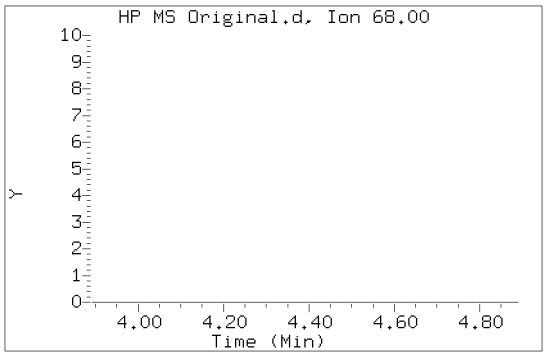
AFTER

MASS
136
AREA
17703
HEIGHT
18361
18-Dec-2023
10:16
linh
pham



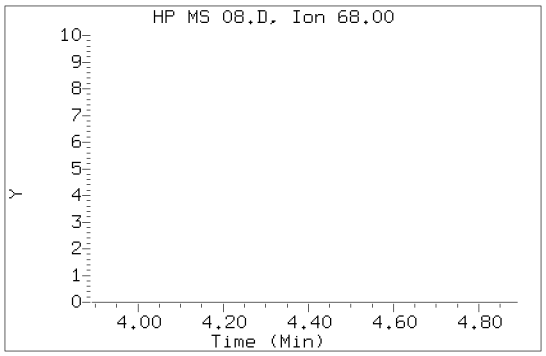
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

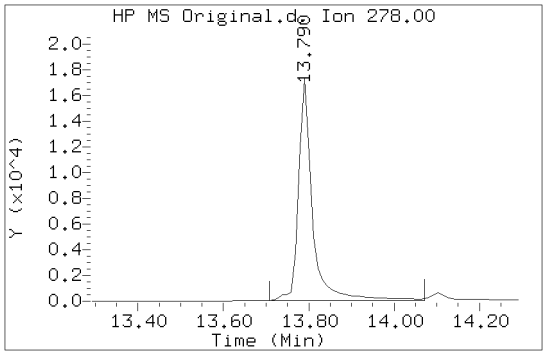


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

BEFORE

MASS
278
AREA
39497
HEIGHT
17254
18-Dec-2023
10:16
linh
pham



AFTER

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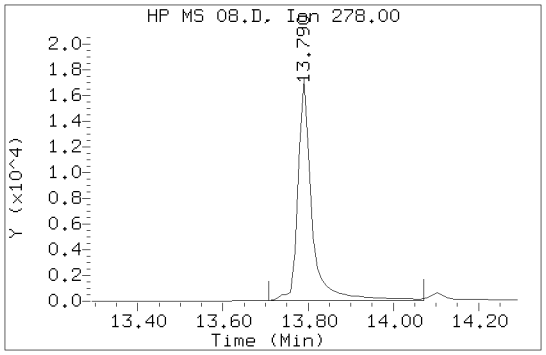
39497
HEIGHT
17254
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
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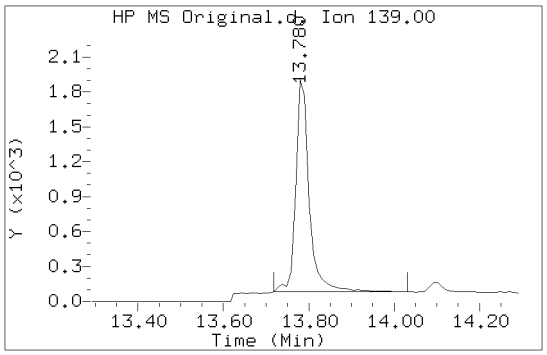
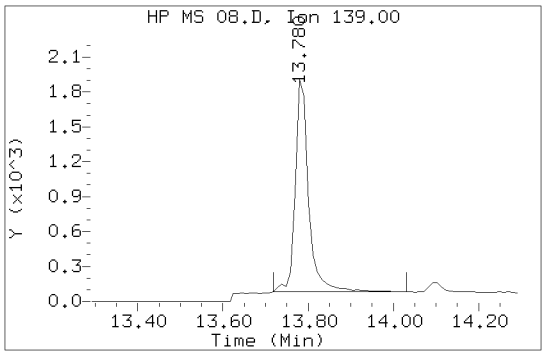
AREA
4012
HEIGHT
1825
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
4012
HEIGHT
1825
18-Dec-2023
10:16
linh
pham



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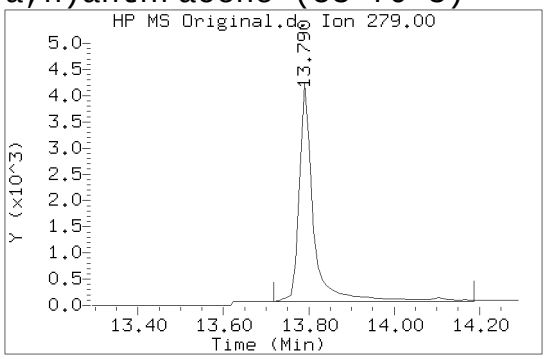
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

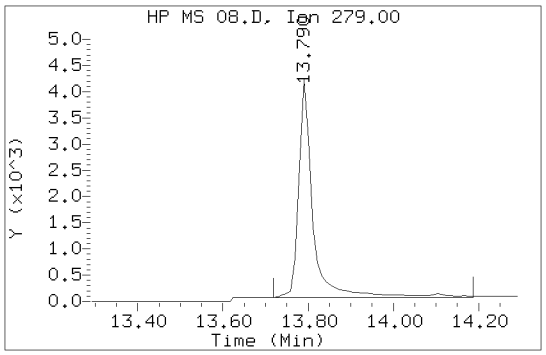
BEFORE

MASS
279
AREA
9608
HEIGHT
4150
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
9608
HEIGHT
4150
18-Dec-2023
10:16
linh
pham

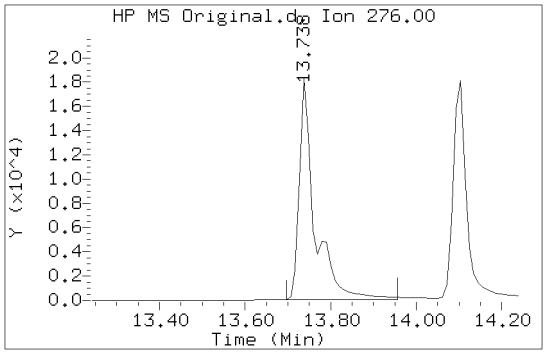


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

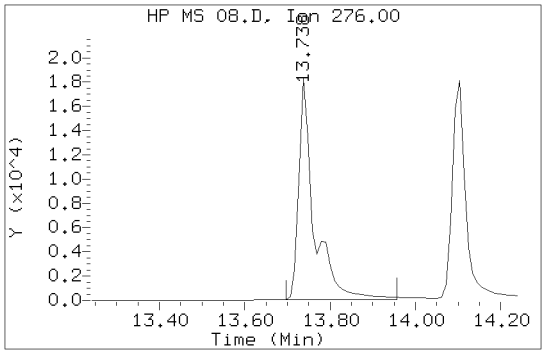
BEFORE

MASS
276
AREA
46491
HEIGHT
18252
18-Dec-2023
10:16
linh
pham



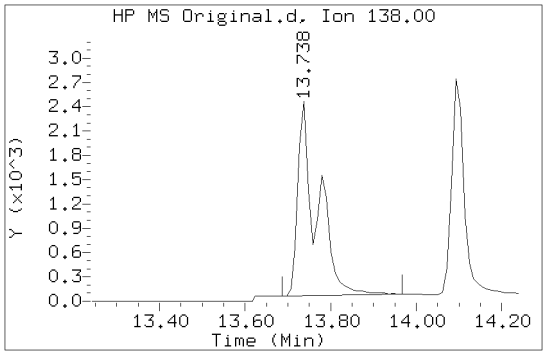
AFTER

MASS
276
AREA
46491
HEIGHT
18252
18-Dec-2023
10:16
linh
pham



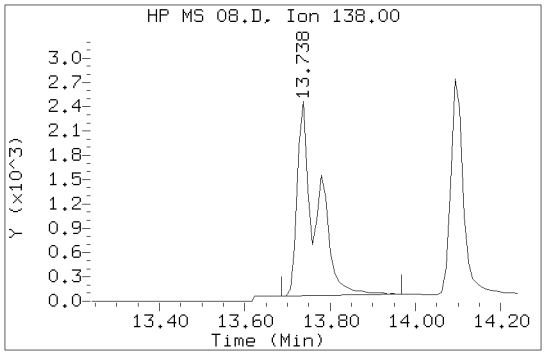
BEFORE

MASS
138
AREA
7473
HEIGHT
2397
18-Dec-2023
10:16
linh
pham



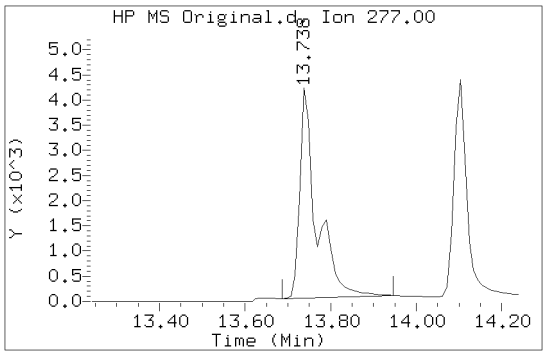
AFTER

MASS
138
AREA
7473
HEIGHT
2397
18-Dec-2023
10:16
linh
pham



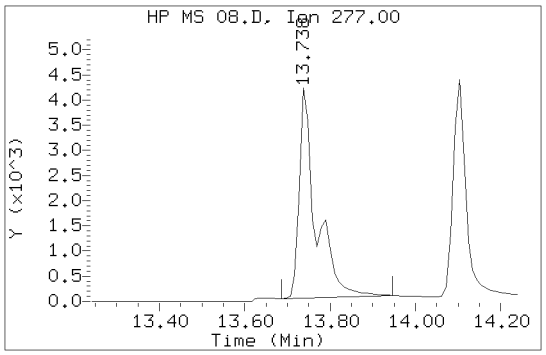
BEFORE

MASS
277
AREA
11364
HEIGHT
4172
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
11364
HEIGHT
4172
18-Dec-2023
10:16
linh
pham



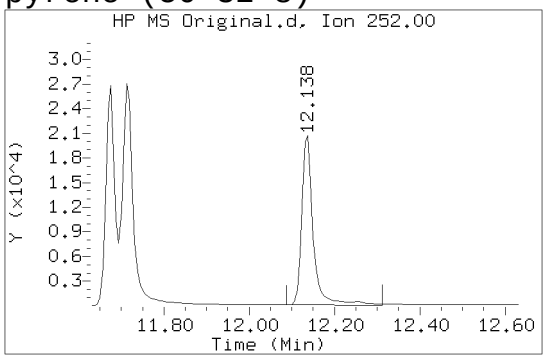
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Benzo(a)pyrene (50-32-8)

Reason Code:

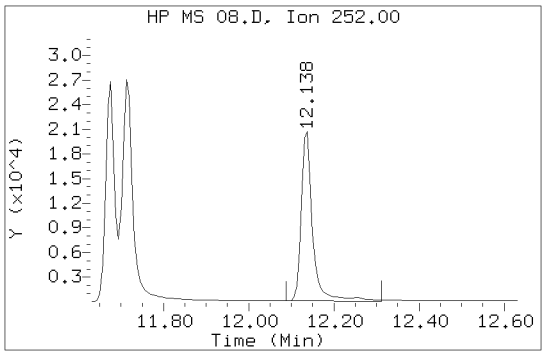
BEFORE

MASS
252
AREA
38902
HEIGHT
20639
18-Dec-2023
10:16
linh
pham



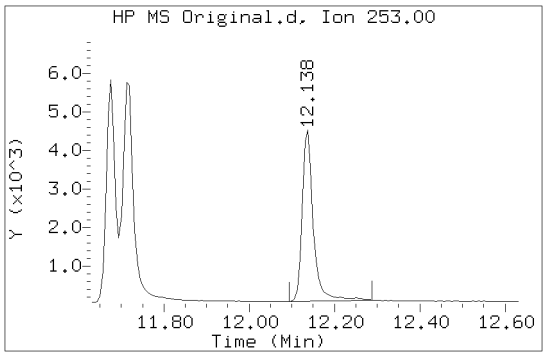
AFTER

MASS
252
AREA
38902
HEIGHT
20639
18-Dec-2023
10:16
linh
pham



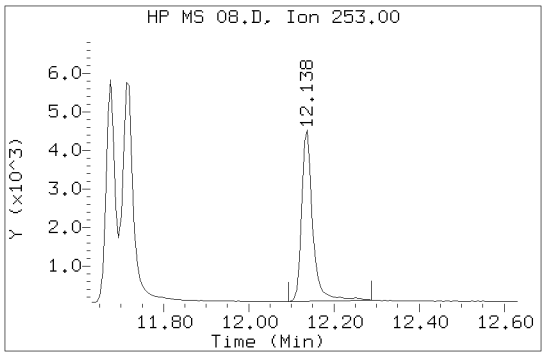
BEFORE

MASS
253
AREA
8136
HEIGHT
4443
18-Dec-2023
10:16
linh
pham



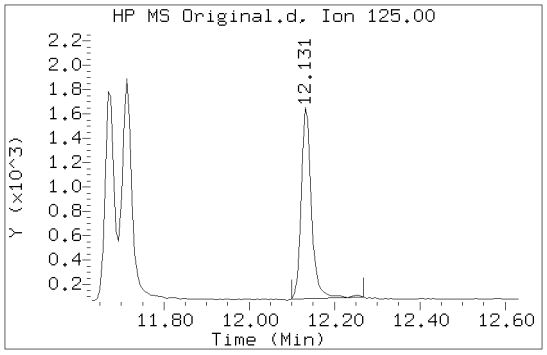
AFTER

MASS
253
AREA
8136
HEIGHT
4443
18-Dec-2023
10:16
linh
pham



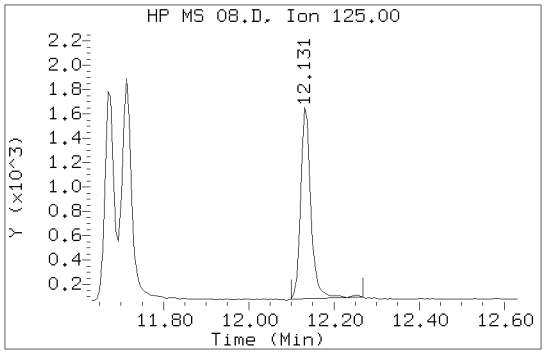
BEFORE

MASS
125
AREA
2667
HEIGHT
1572
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2667
HEIGHT
1572
18-Dec-2023
10:16
linh
pham

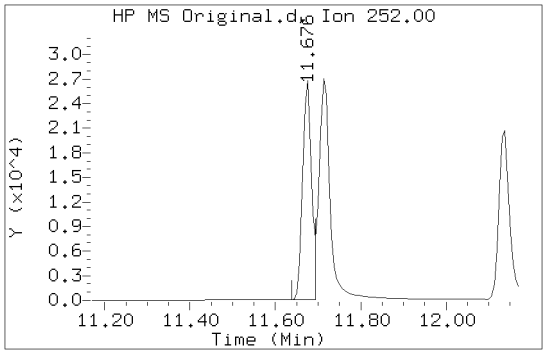


Benzo(b)fluoranthene (205-99-2)

Reason Code:

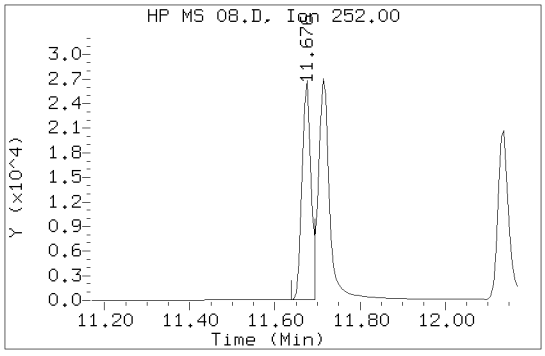
BEFORE

MASS
252
AREA
39827
HEIGHT
26824
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
39827
HEIGHT
26824
18-Dec-2023
10:16
linh
pham



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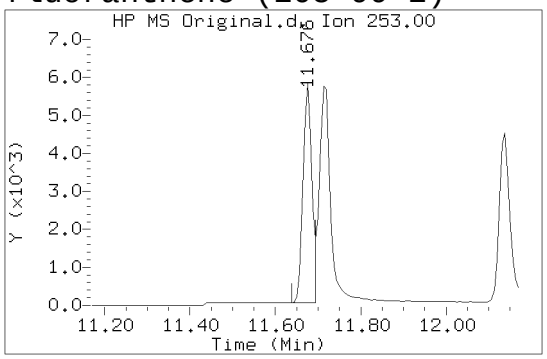
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Benzo(b)fluoranthene (205-99-2)

Reason Code:

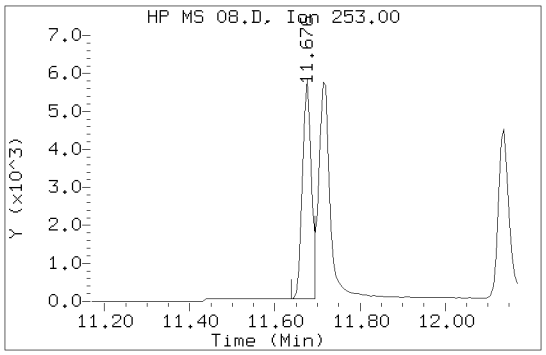
BEFORE

MASS
253
AREA
8483
HEIGHT
5763
18-Dec-2023
10:16
linh
pham



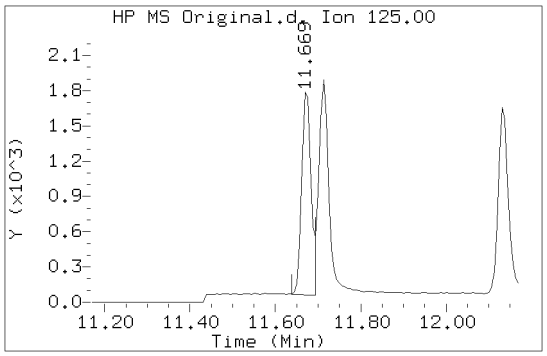
AFTER

MASS
253
AREA
8483
HEIGHT
5763
18-Dec-2023
10:16
linh
pham



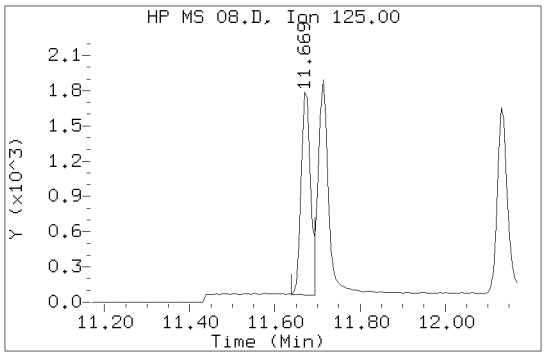
BEFORE

MASS
125
AREA
2701
HEIGHT
1722
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
2701
HEIGHT
1722
18-Dec-2023
10:16
linh
pham

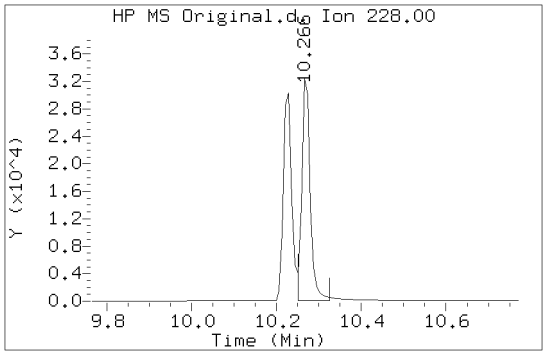


Chrysene (218-01-9)

Reason Code:

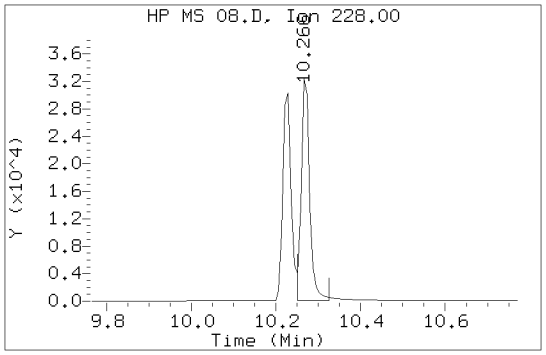
BEFORE

MASS
228
AREA
46100
HEIGHT
32289
18-Dec-2023
10:16
linh
pham



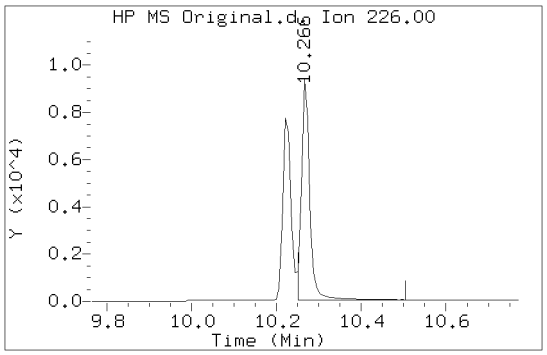
AFTER

MASS
228
AREA
46100
HEIGHT
32289
18-Dec-2023
10:16
linh
pham



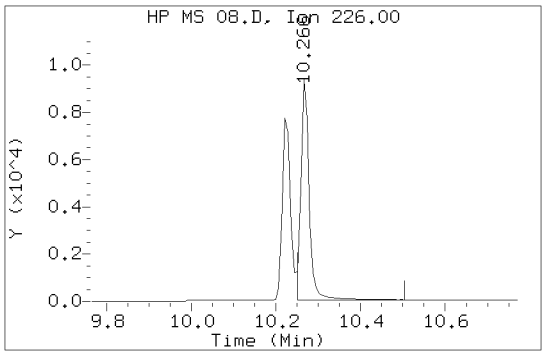
BEFORE

MASS
226
AREA
13053
HEIGHT
9330
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
13053
HEIGHT
9330
18-Dec-2023
10:16
linh
pham



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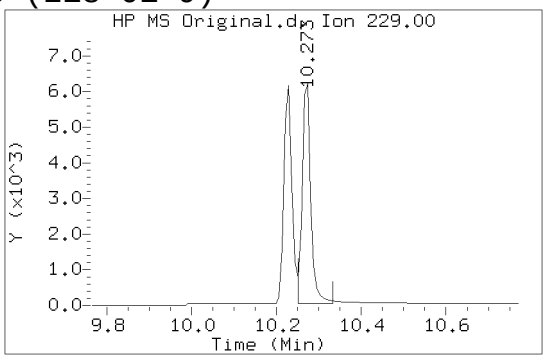
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Chrysene (218-01-9)

Reason Code:

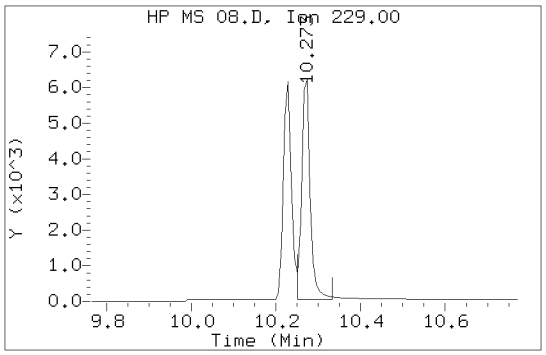
BEFORE

MASS
229
AREA
9005
HEIGHT
6168
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
9005
HEIGHT
6168
18-Dec-2023
10:16
linh
pham

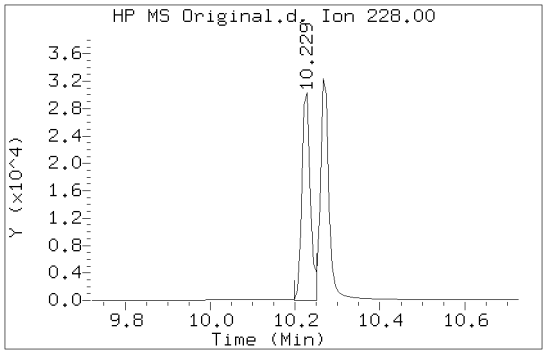


Benzo(a)Anthracene (56-55-3)

Reason Code:

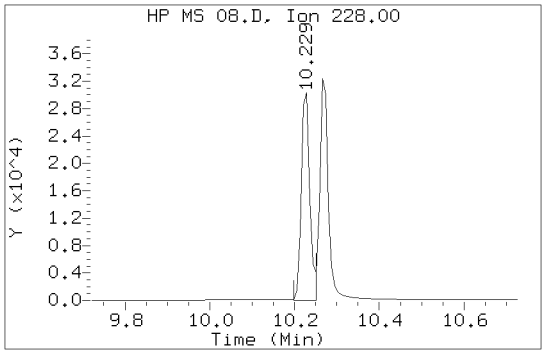
BEFORE

MASS
228
AREA
42014
HEIGHT
30307
18-Dec-2023
10:16
linh
pham



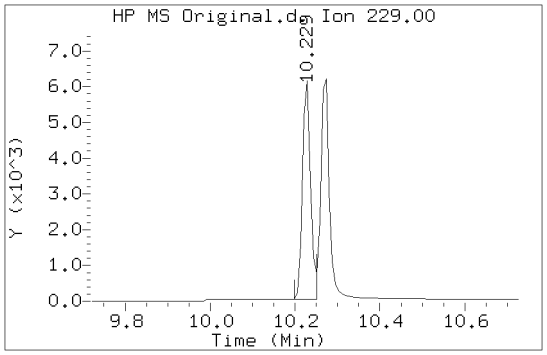
AFTER

MASS
228
AREA
42014
HEIGHT
30307
18-Dec-2023
10:16
linh
pham



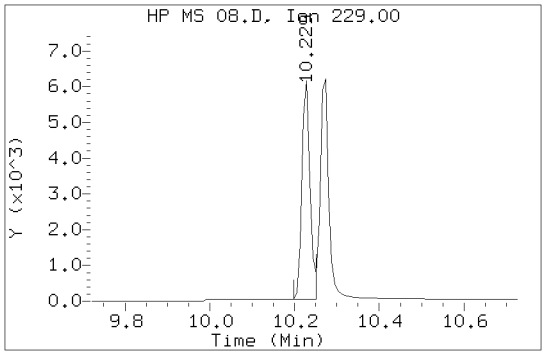
BEFORE

MASS
229
AREA
8083
HEIGHT
6107
18-Dec-2023
10:16
linh
pham



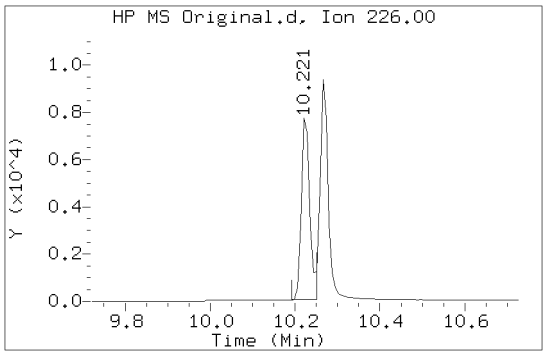
AFTER

MASS
229
AREA
8083
HEIGHT
6107
18-Dec-2023
10:16
linh
pham



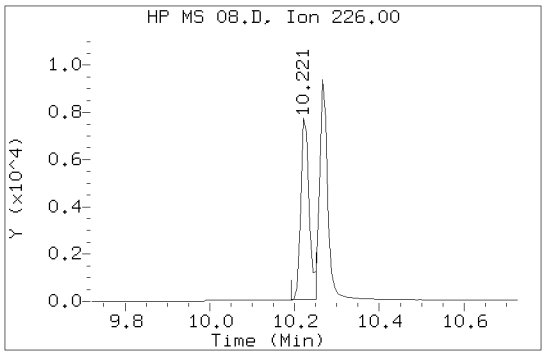
BEFORE

MASS
226
AREA
10572
HEIGHT
7672
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
10572
HEIGHT
7672
18-Dec-2023
10:16
linh
pham



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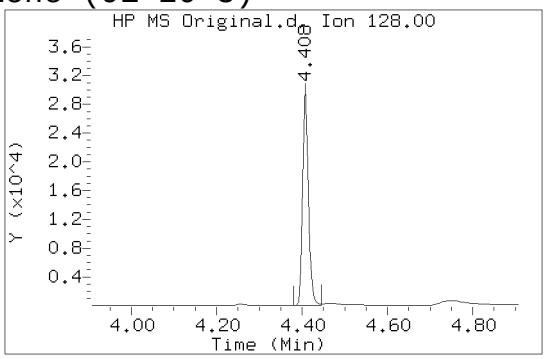
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Naphthalene (91-20-3)

Reason Code:

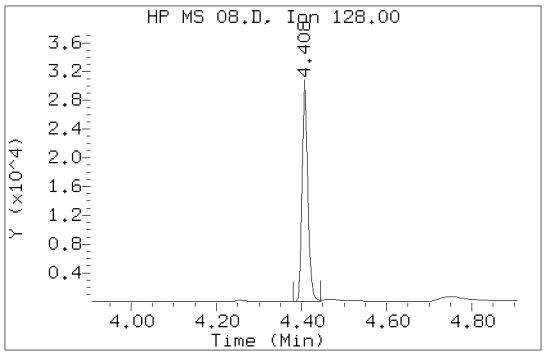
BEFORE

MASS
128
AREA
28695
HEIGHT
30803
18-Dec-2023
10:16
linh
pham



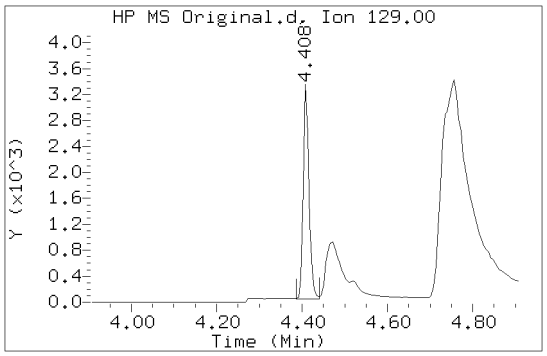
AFTER

MASS
128
AREA
28695
HEIGHT
30803
18-Dec-2023
10:16
linh
pham



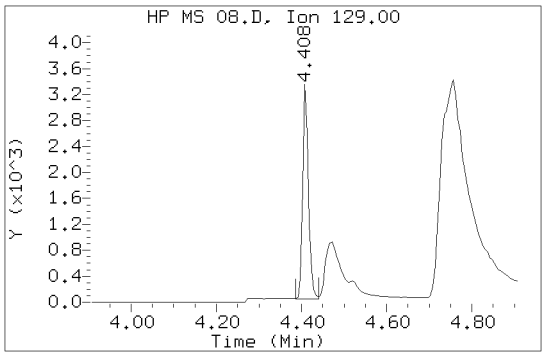
BEFORE

MASS
129
AREA
3124
HEIGHT
3303
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
3124
HEIGHT
3303
18-Dec-2023
10:16
linh
pham

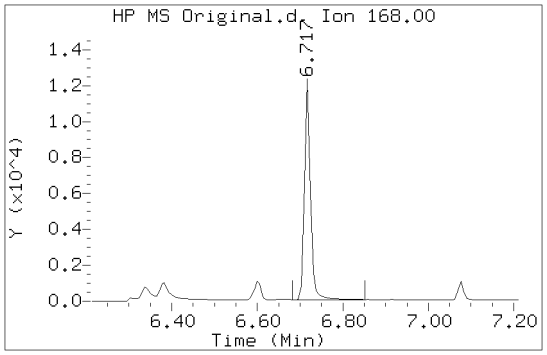


Dibenzofuran (132-64-9)

Reason Code:

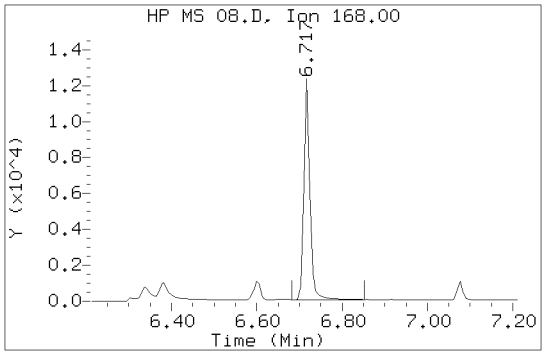
BEFORE

MASS
168
AREA
12028
HEIGHT
12288
18-Dec-2023
10:16
linh
pham



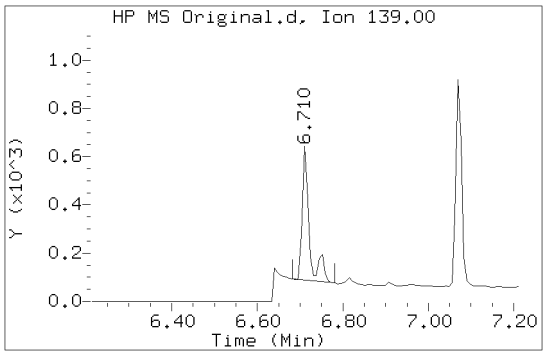
AFTER

MASS
168
AREA
12028
HEIGHT
12288
18-Dec-2023
10:16
linh
pham



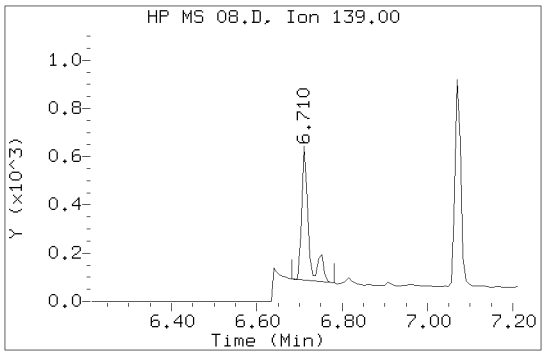
BEFORE

MASS
139
AREA
644
HEIGHT
554
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
644
HEIGHT
554
18-Dec-2023
10:16
linh
pham



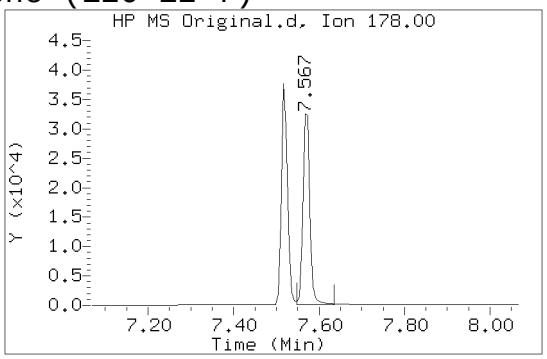
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Anthracene (120-12-7)

Reason Code:

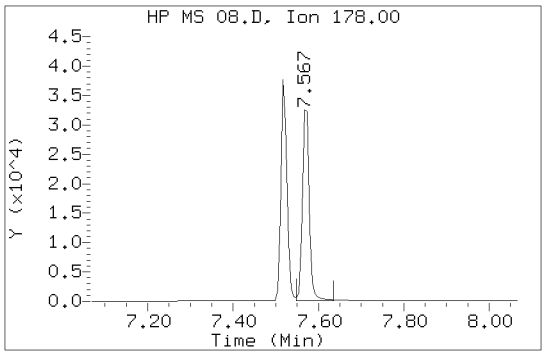
BEFORE

MASS
178
AREA
36102
HEIGHT
32533
18-Dec-2023
10:16
linh
pham



AFTER

MASS
178
AREA
36102
HEIGHT
32533
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
176
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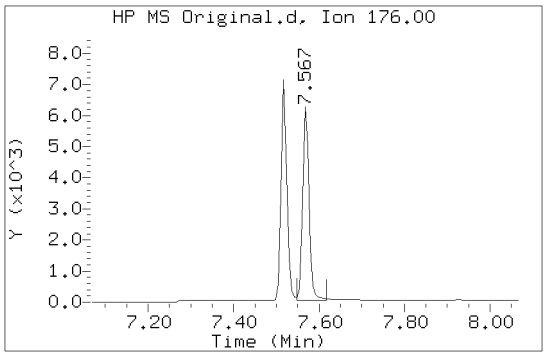
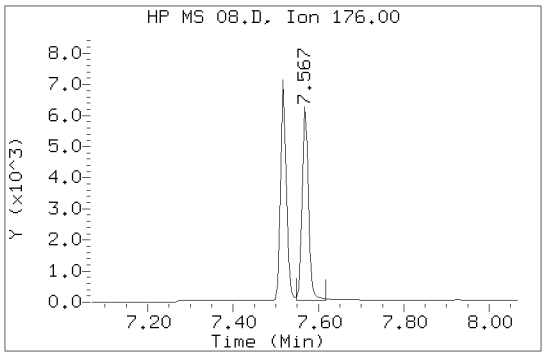
6322
HEIGHT
6225
18-Dec-2023
10:16
linh
pham



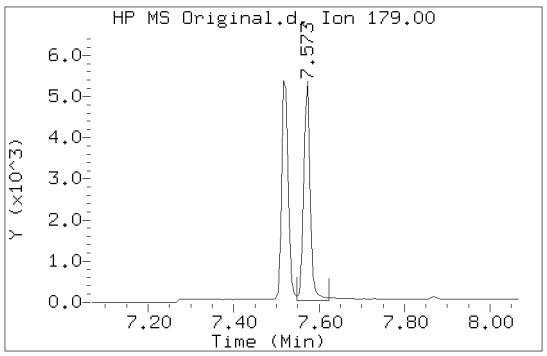
AFTER

MASS
176
AREA
6322
HEIGHT
6225
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
179
AREA
5546
HEIGHT
5321
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
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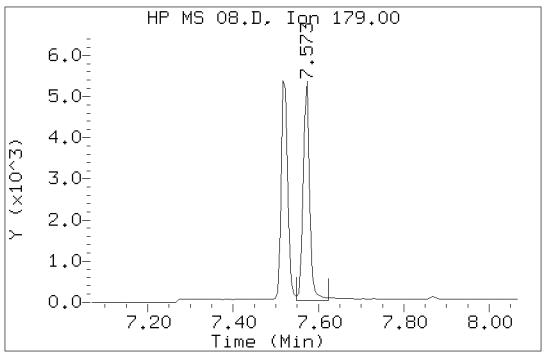
5546
HEIGHT
5321
18-Dec-2023
10:16
linh
pham

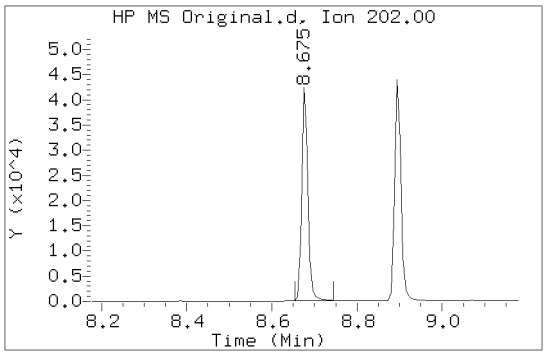


Fluoranthene (206-44-0)

Reason Code:

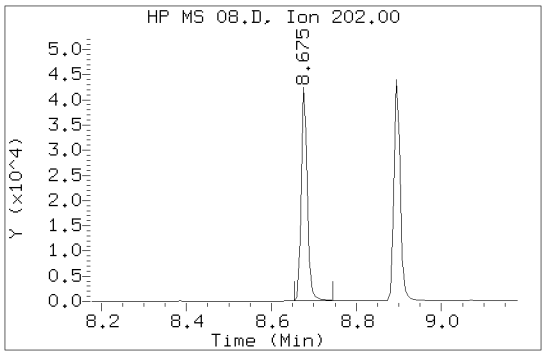
BEFORE

MASS
202
AREA
42723
HEIGHT
42362
18-Dec-2023
10:16
linh
pham



AFTER

MASS
202
AREA
42723
HEIGHT
42362
18-Dec-2023
10:16
linh
pham



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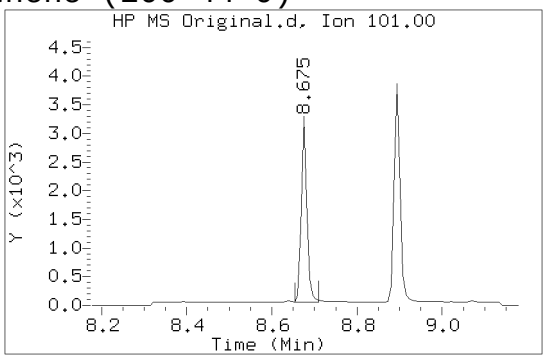
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Fluoranthene (206-44-0)

Reason Code:

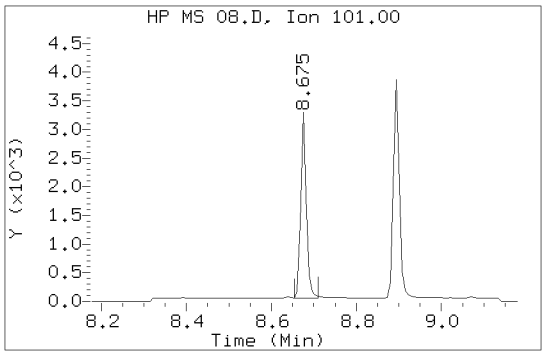
BEFORE

MASS
101
AREA
2971
HEIGHT
3235
18-Dec-2023
10:16
linh
pham



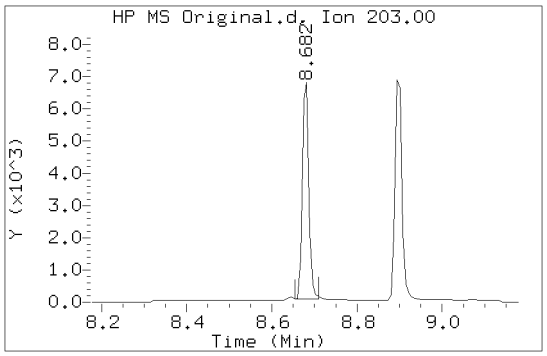
AFTER

MASS
101
AREA
2971
HEIGHT
3235
18-Dec-2023
10:16
linh
pham



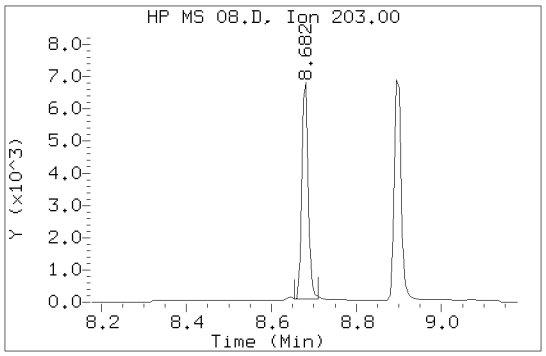
BEFORE

MASS
203
AREA
7180
HEIGHT
6726
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
7180
HEIGHT
6726
18-Dec-2023
10:16
linh
pham

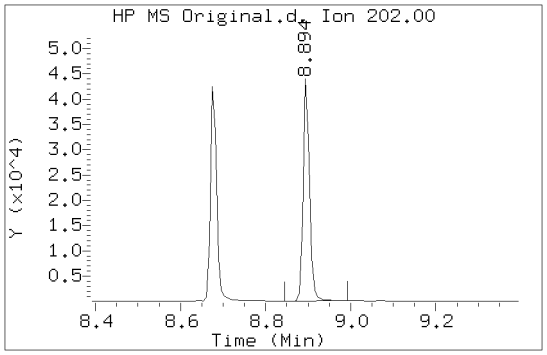


Pyrene (129-00-0)

Reason Code:

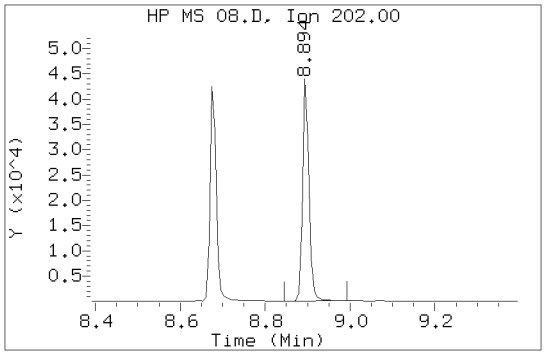
BEFORE

MASS
202
AREA
45084
HEIGHT
43896
18-Dec-2023
10:16
linh
pham



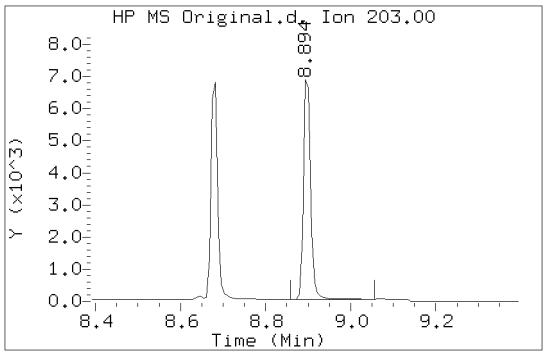
AFTER

MASS
202
AREA
45084
HEIGHT
43896
18-Dec-2023
10:16
linh
pham



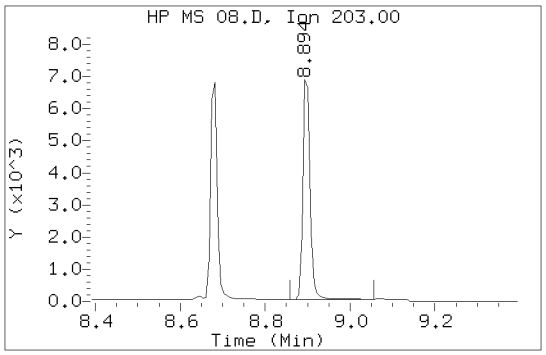
BEFORE

MASS
203
AREA
7919
HEIGHT
6836
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
7919
HEIGHT
6836
18-Dec-2023
10:16
linh
pham



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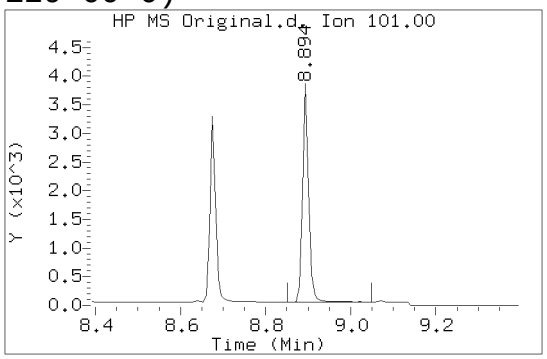
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Pyrene (129-00-0)

Reason Code:

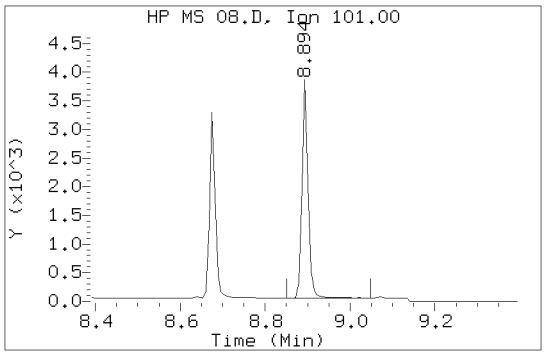
BEFORE

MASS
101
AREA
3749
HEIGHT
3812
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
3749
HEIGHT
3812
18-Dec-2023
10:16
linh
pham

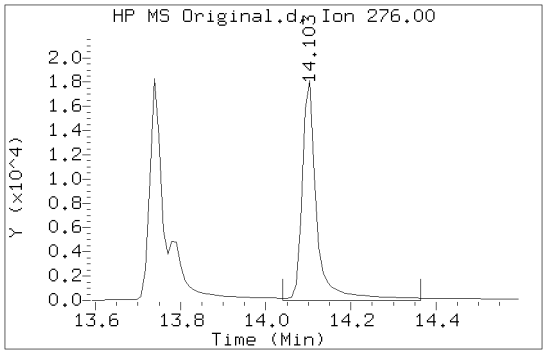


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

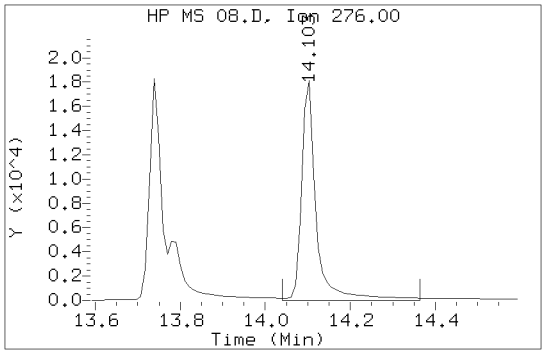
BEFORE

MASS
276
AREA
42774
HEIGHT
18111
18-Dec-2023
10:16
linh
pham



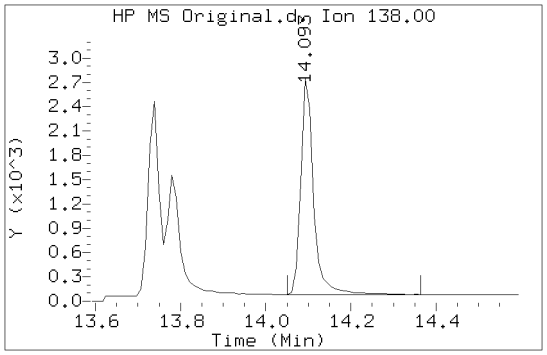
AFTER

MASS
276
AREA
42774
HEIGHT
18111
18-Dec-2023
10:16
linh
pham



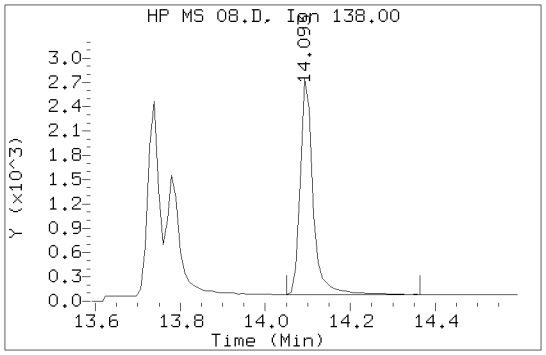
BEFORE

MASS
138
AREA
5536
HEIGHT
2662
18-Dec-2023
10:16
linh
pham



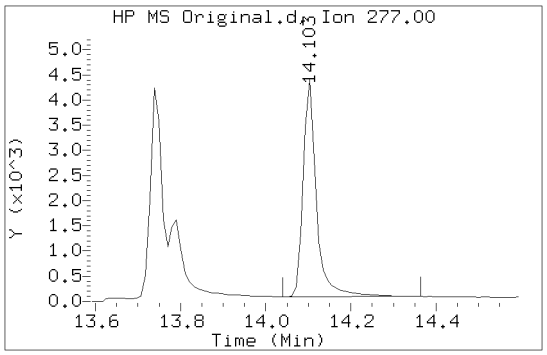
AFTER

MASS
138
AREA
5536
HEIGHT
2662
18-Dec-2023
10:16
linh
pham



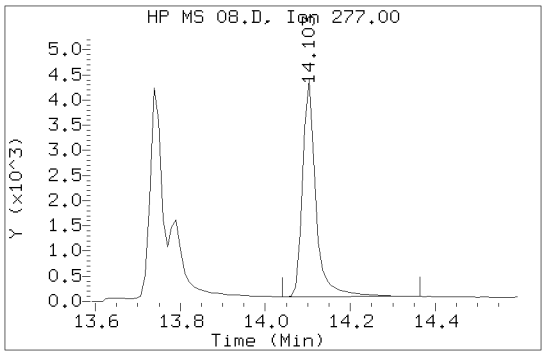
BEFORE

MASS
277
AREA
9389
HEIGHT
4317
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
9389
HEIGHT
4317
18-Dec-2023
10:16
linh
pham



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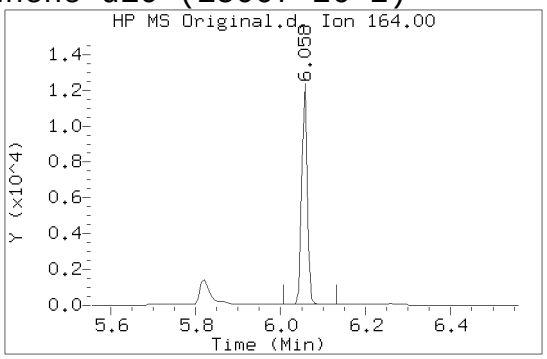
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Acenaphthene-d10 (15067-26-2)

Reason Code:

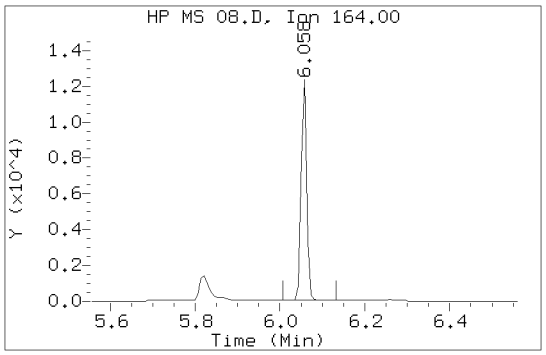
BEFORE

MASS
164
AREA
10954
HEIGHT
12313
18-Dec-2023
10:16
linh
pham



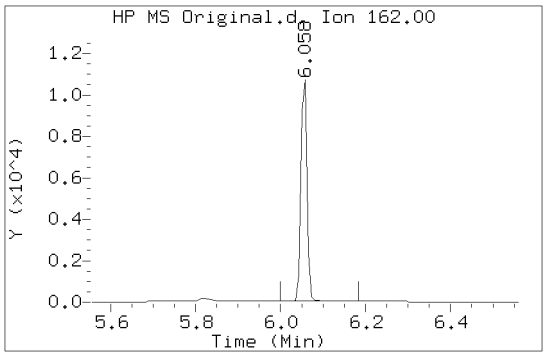
AFTER

MASS
164
AREA
10954
HEIGHT
12313
18-Dec-2023
10:16
linh
pham



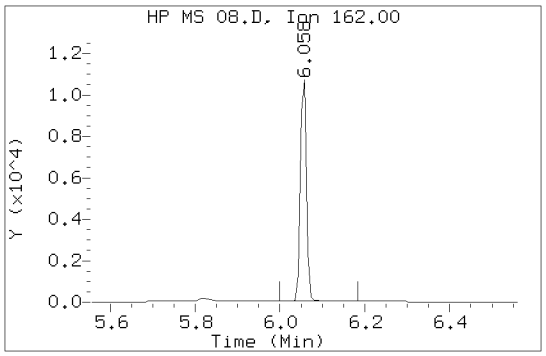
BEFORE

MASS
162
AREA
10539
HEIGHT
10667
18-Dec-2023
10:16
linh
pham



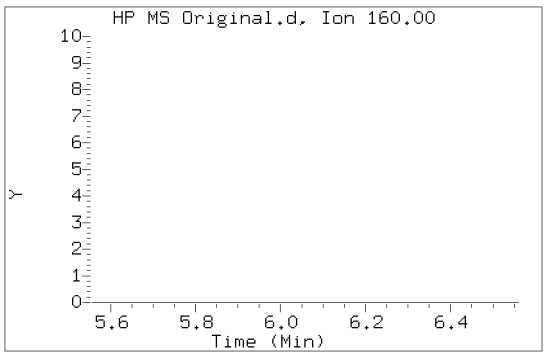
AFTER

MASS
162
AREA
10539
HEIGHT
10667
18-Dec-2023
10:16
linh
pham



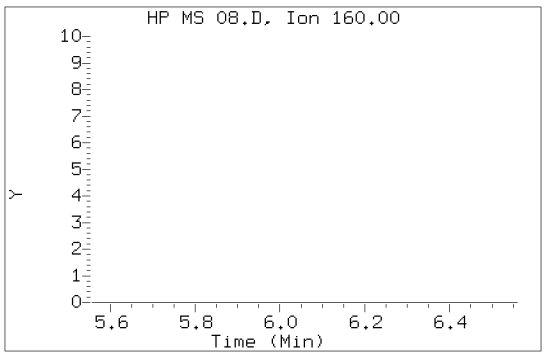
BEFORE

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
160
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

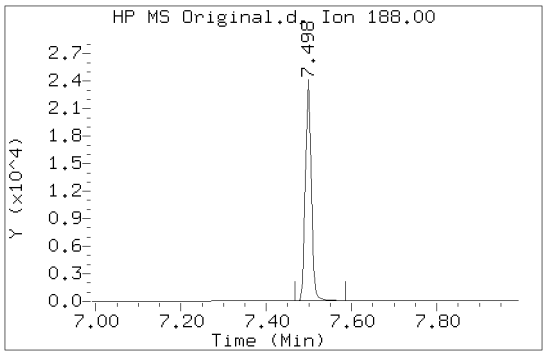


Phenanthrene-d10 (1517-22-2)

Reason Code:

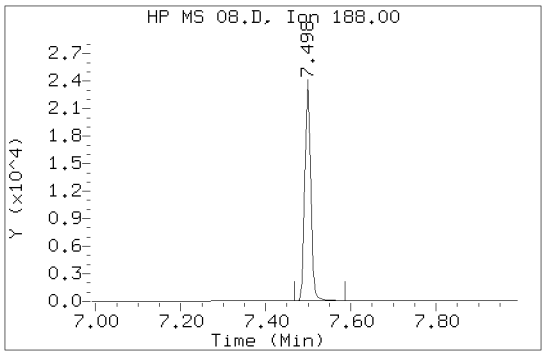
BEFORE

MASS
188
AREA
22321
HEIGHT
24096
18-Dec-2023
10:16
linh
pham



AFTER

MASS
188
AREA
22321
HEIGHT
24096
18-Dec-2023
10:16
linh
pham



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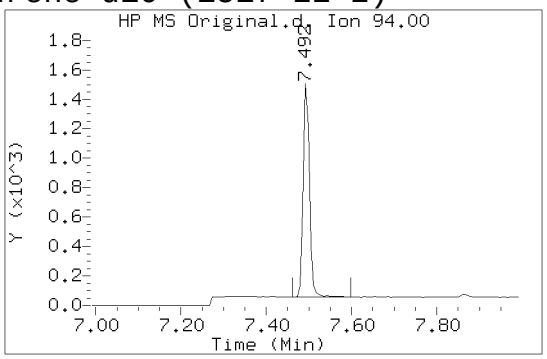
LabSampID : PAHSIM-0.15

Phenanthrene-d10 (1517-22-2)

Reason Code:

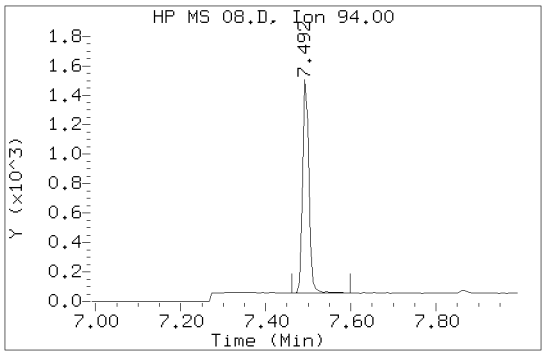
BEFORE

MASS
94
AREA
1436
HEIGHT
1450
18-Dec-2023
10:16
linh
pham



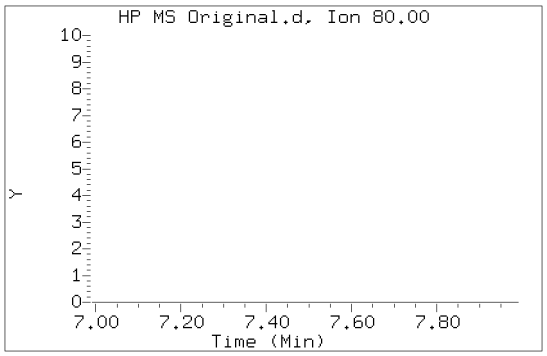
AFTER

MASS
94
AREA
1436
HEIGHT
1450
18-Dec-2023
10:16
linh
pham



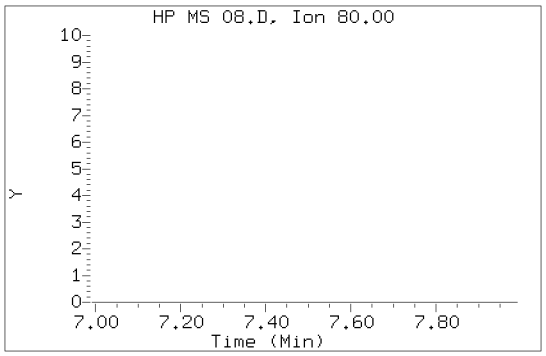
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

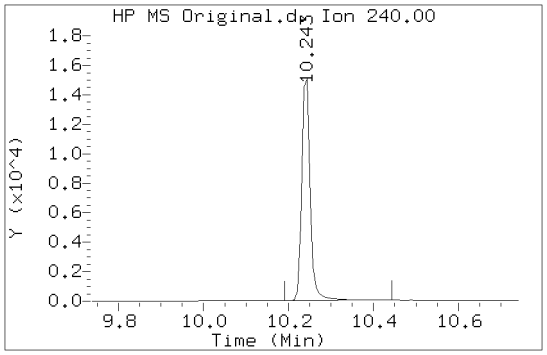


Chrysene-d12 (1719-03-5)

Reason Code:

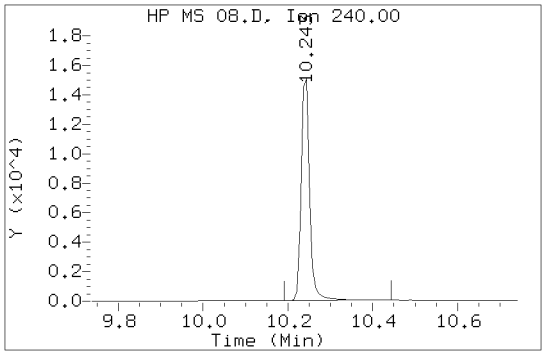
BEFORE

MASS
240
AREA
20983
HEIGHT
15023
18-Dec-2023
10:16
linh
pham



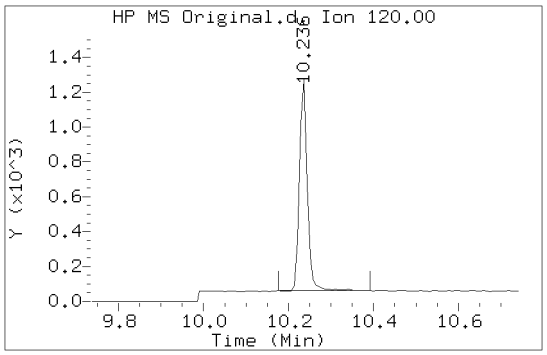
AFTER

MASS
240
AREA
20983
HEIGHT
15023
18-Dec-2023
10:16
linh
pham



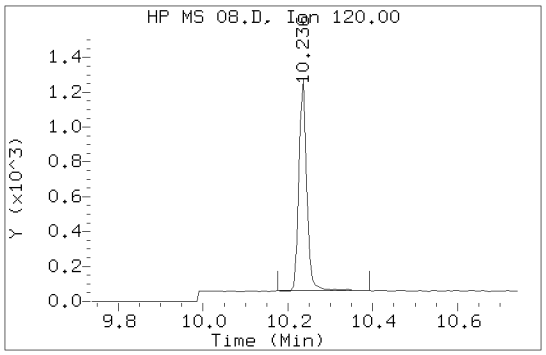
BEFORE

MASS
120
AREA
1547
HEIGHT
1211
18-Dec-2023
10:16
linh
pham



AFTER

MASS
120
AREA
1547
HEIGHT
1211
18-Dec-2023
10:16
linh
pham



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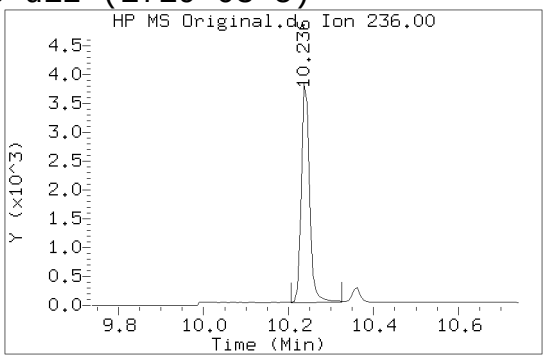
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

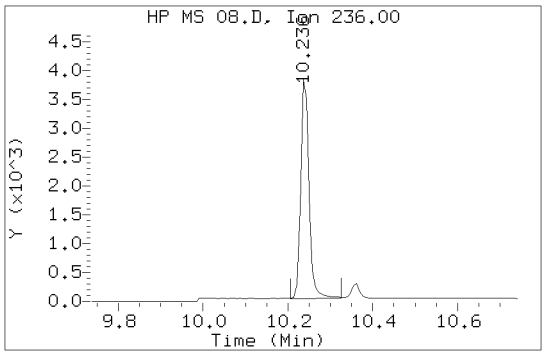
BEFORE

MASS
236
AREA
5163
HEIGHT
3797
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
5163
HEIGHT
3797
18-Dec-2023
10:16
linh
pham

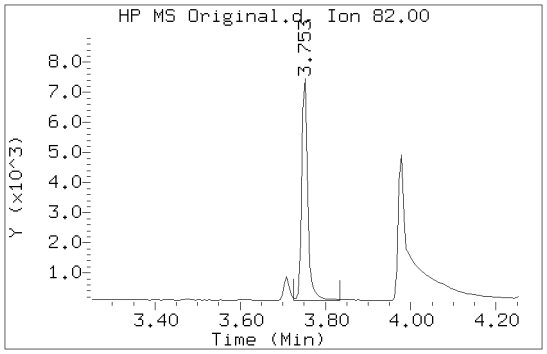


Nitrobenzene-d5 (4165-60-0)

Reason Code:

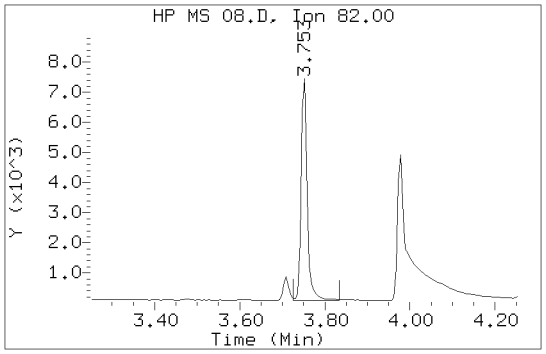
BEFORE

MASS
82
AREA
7134
HEIGHT
7357
18-Dec-2023
10:16
linh
pham



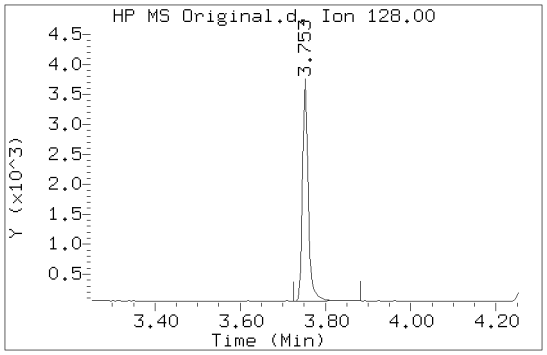
AFTER

MASS
82
AREA
7134
HEIGHT
7357
18-Dec-2023
10:16
linh
pham



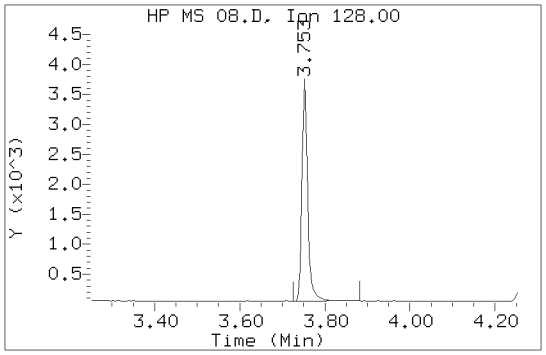
BEFORE

MASS
128
AREA
3358
HEIGHT
3706
18-Dec-2023
10:16
linh
pham



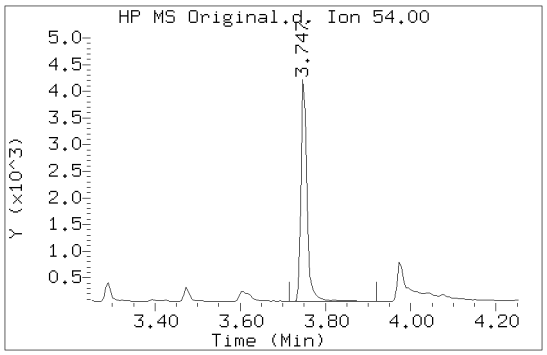
AFTER

MASS
128
AREA
3358
HEIGHT
3706
18-Dec-2023
10:16
linh
pham



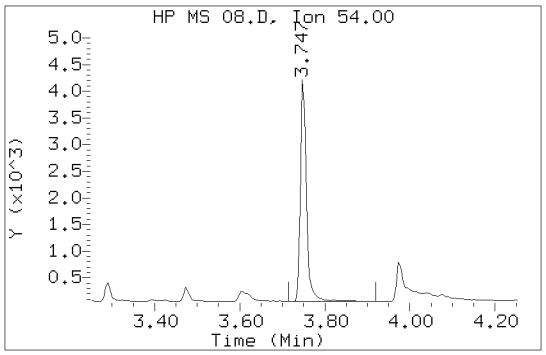
BEFORE

MASS
54
AREA
4005
HEIGHT
4152
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
4005
HEIGHT
4152
18-Dec-2023
10:16
linh
pham



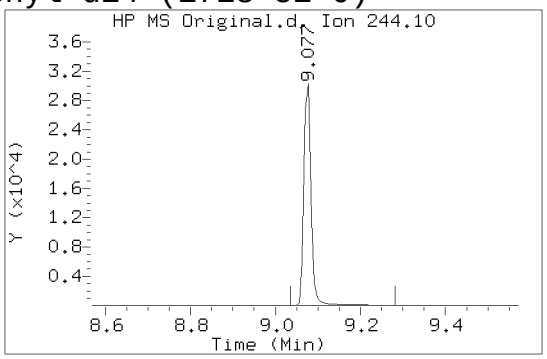
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\08.D
Inj Date : 12-DEC-2023 15:19
InstruID : SV6.i
LabSampID : PAHSIM-0.15

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

Reason Code:

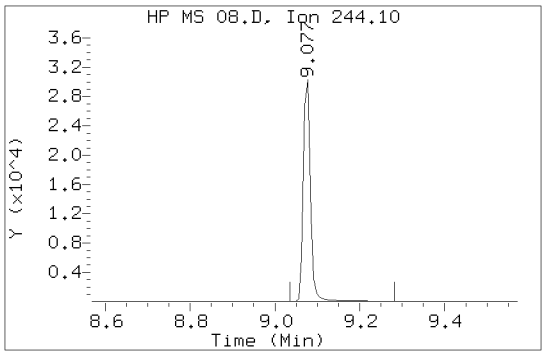
BEFORE

MASS
244.1
AREA
29263
HEIGHT
30253
18-Dec-2023
10:16
linh
pham



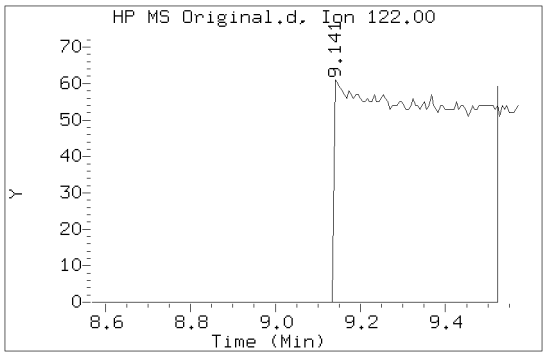
AFTER

MASS
244.1
AREA
29263
HEIGHT
30253
18-Dec-2023
10:16
linh
pham



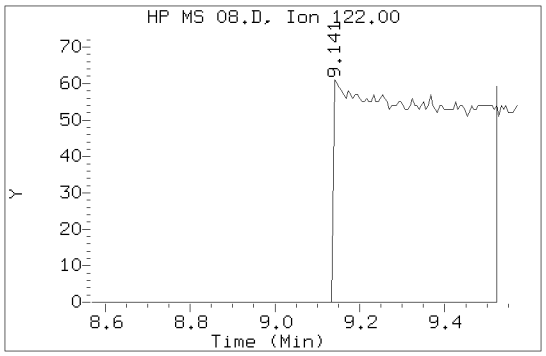
BEFORE

MASS
122
AREA
1276
HEIGHT
61
18-Dec-2023
10:16
linh
pham



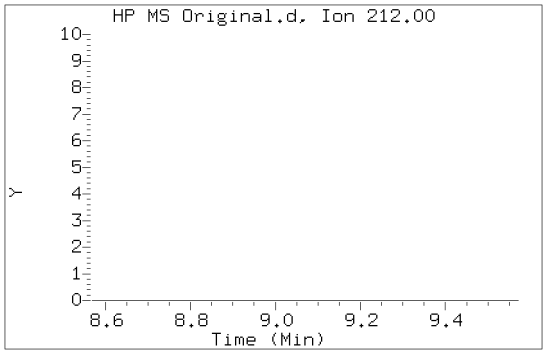
AFTER

MASS
122
AREA
1276
HEIGHT
61
18-Dec-2023
10:16
linh
pham



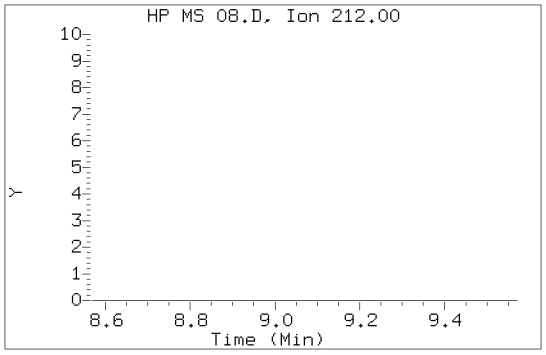
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Lab Smp Id: PAHSIM-0.20 Client Smp ID: PAHSIM-0.20
Inj Date : 12-DEC-2023 15:39
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.20
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:19 Cal File: 08.D
Als bottle: 9 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.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)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	20197	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	11339	0.20000	0.2036(AM)
* 86 Acenaphthene-d10	164	6.056	6.056	(1.000)	12397	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	40079	0.20000	0.2030(AM)
* 126 Phenanthrene-d10	188	7.498	7.498	(1.000)	25613	0.10000	(M)
* 182 Chrysene-d12	240	10.235	10.235	(1.000)	24600	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.077	(0.887)	47723	0.20000	0.1910(AM)
* 198 Perylene-d12	264	12.218	12.218	(1.000)	25962	0.10000	
46 Naphthalene	128	4.407	4.407	(1.004)	44126	0.20000	0.1991(M)
61 2-Methylnaphthalene	142	5.059	5.059	(1.152)	30275	0.20000	0.2043(M)
62 1-Methylnaphthalene	142	5.151	5.151	(1.204)	28126	0.20000	0.2034
83 Acenaphthylene	152	5.915	5.915	(0.977)	46661	0.20000	0.2058
88 Acenaphthene	154	6.086	6.086	(1.005)	28559	0.20000	0.1998
98 Fluorene	166	6.588	6.588	(1.088)	35908	0.20000	0.2044
92 Dibenzofuran	168	6.717	6.717	(1.109)	18738	0.20000	0.2022(AM)
128 Phenanthrene	178	7.516	7.516	(1.002)	56684	0.20000	0.2022
130 Anthracene	178	7.566	7.566	(1.009)	56240	0.20000	0.2013(M)
149 Fluoranthene	202	8.674	8.674	(1.157)	66819	0.20000	0.2004
155 Pyrene	202	8.893	8.893	(0.869)	71204	0.20000	0.1991(M)

181 Benzo(a)Anthracene	228	10.221	10.221 (0.999)	67102	0.20000	0.2012(M)
183 Chrysene	228	10.265	10.265 (1.003)	74306	0.20000	0.1998(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
192 Benzo(b)fluoranthene	252	11.675	11.675	(0.956)	62840	0.20000	0.1950
195 Benzo(k)fluoranthene	252	11.712	11.712	(0.959)	77579	0.20000	0.1989(M)
197 Benzo(a)pyrene	252	12.137	12.137	(0.993)	64341	0.20000	0.2060(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.738	(1.124)	74022	0.20000	0.1980(M)
210 Dibenzo(a,h)anthracene	278	13.790	13.790	(1.129)	64775	0.20000	0.2086(M)
212 Benzo(g,h,i)perylene	276	14.103	14.103	(1.154)	68404	0.20000	0.2049(M)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D

Date : 12-DEC-2023 15:39

Client ID: PAHSIM-0.20

Instrument: SV6.i

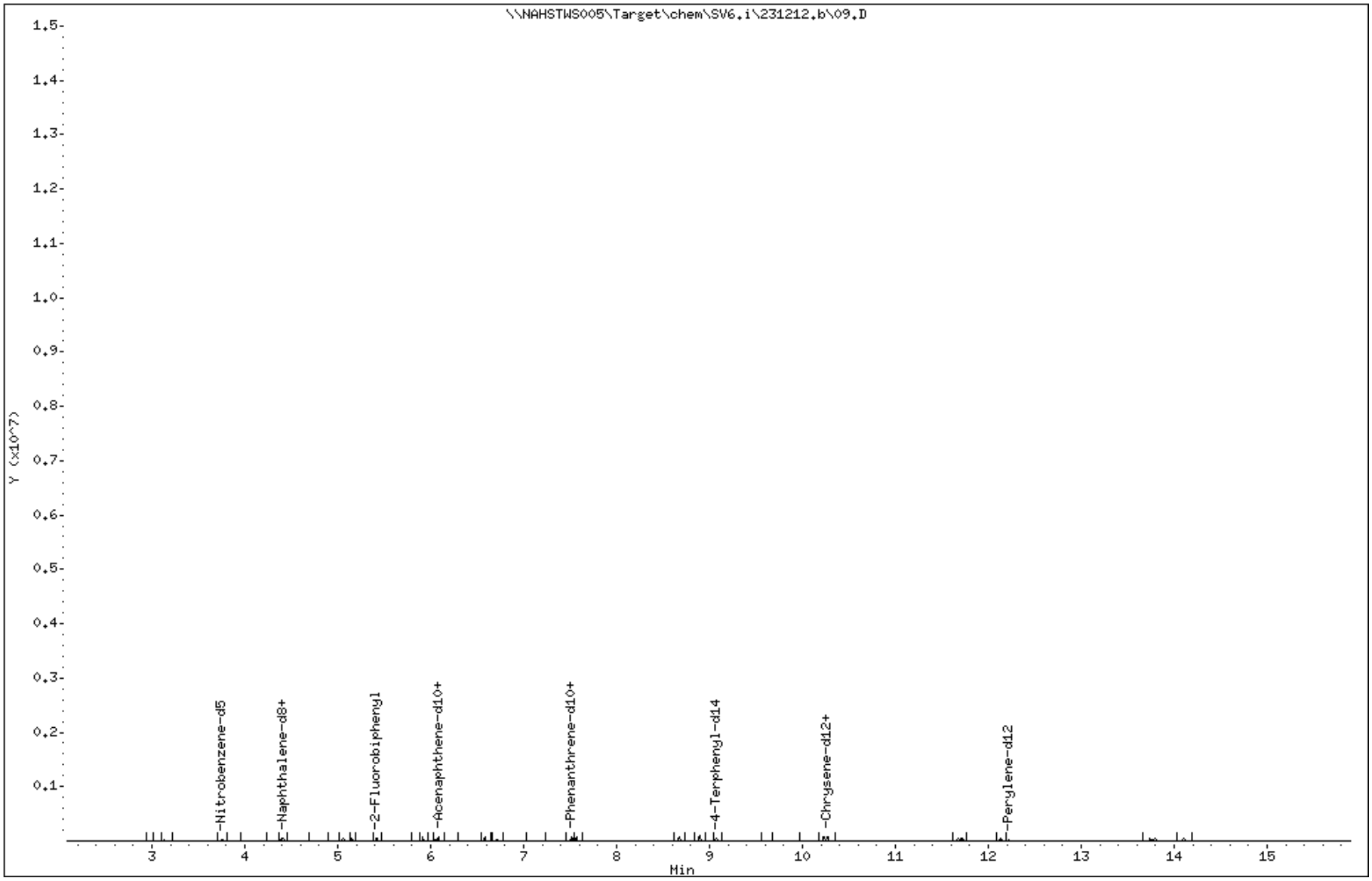
Sample Info: PAHSIM-0.20

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



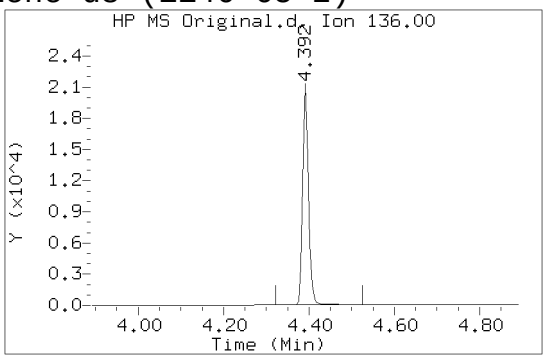
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Naphthalene-d8 (1146-65-2)

Reason Code:

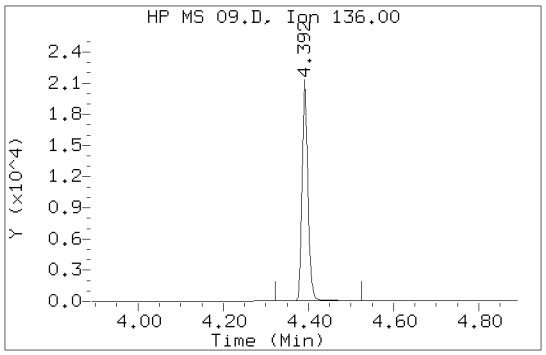
BEFORE

MASS
136
AREA
20197
HEIGHT
21278
18-Dec-2023
10:16
linh
pham



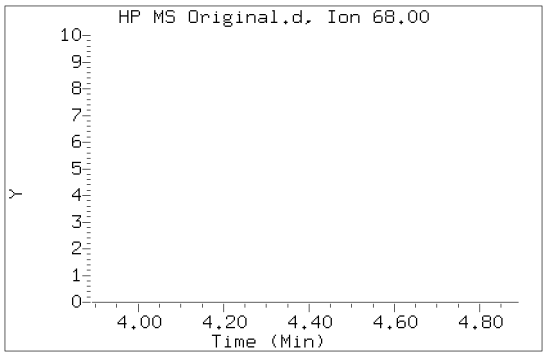
AFTER

MASS
136
AREA
20197
HEIGHT
21278
18-Dec-2023
10:16
linh
pham



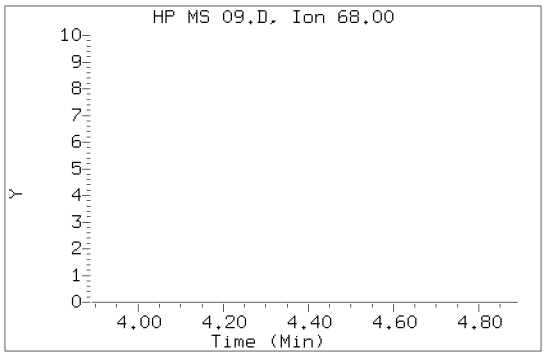
BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

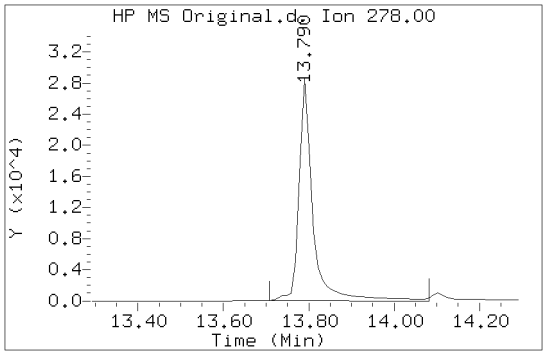


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

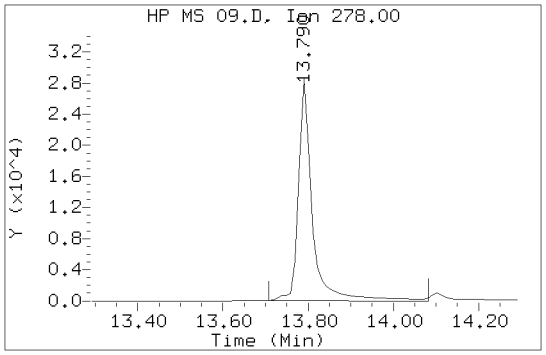
BEFORE

MASS
278
AREA
64775
HEIGHT
28507
18-Dec-2023
10:16
linh
pham



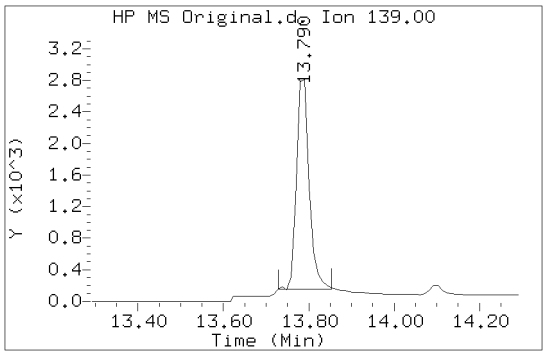
AFTER

MASS
278
AREA
64775
HEIGHT
28507
18-Dec-2023
10:16
linh
pham



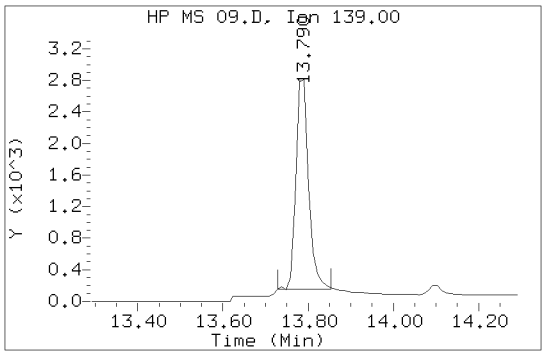
BEFORE

MASS
139
AREA
5454
HEIGHT
2652
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
5454
HEIGHT
2652
18-Dec-2023
10:16
linh
pham



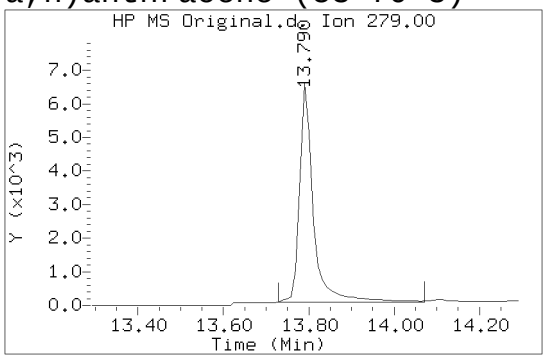
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

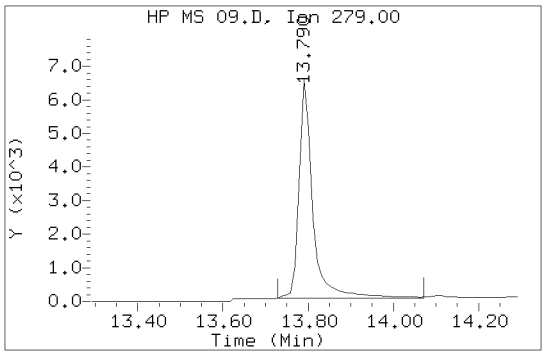
BEFORE

MASS
279
AREA
14451
HEIGHT
6499
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
14451
HEIGHT
6499
18-Dec-2023
10:16
linh
pham

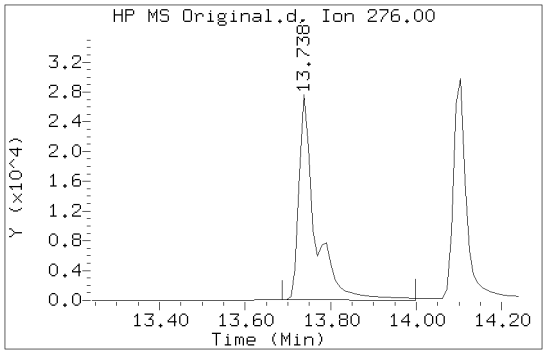


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

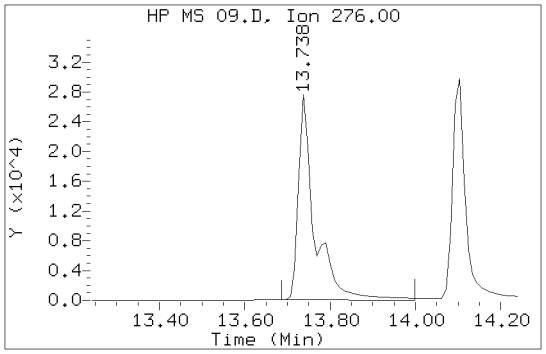
BEFORE

MASS
276
AREA
74022
HEIGHT
27593
18-Dec-2023
10:16
linh
pham



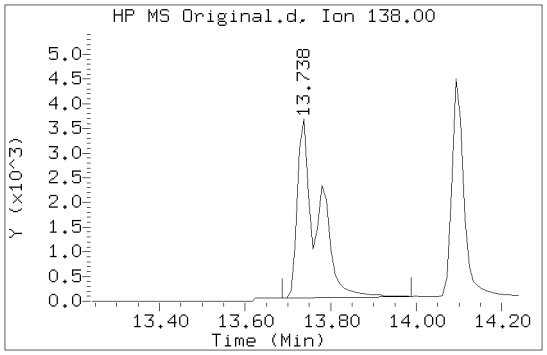
AFTER

MASS
276
AREA
74022
HEIGHT
27593
18-Dec-2023
10:16
linh
pham



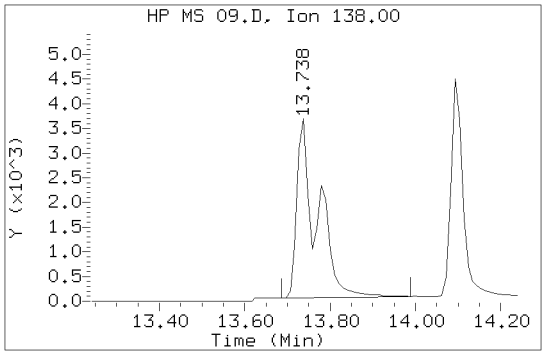
BEFORE

MASS
138
AREA
11944
HEIGHT
3635
18-Dec-2023
10:16
linh
pham



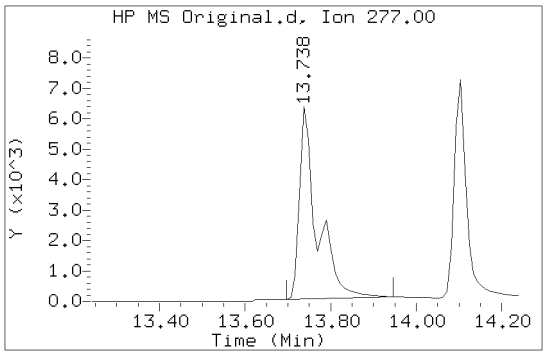
AFTER

MASS
138
AREA
11944
HEIGHT
3635
18-Dec-2023
10:16
linh
pham



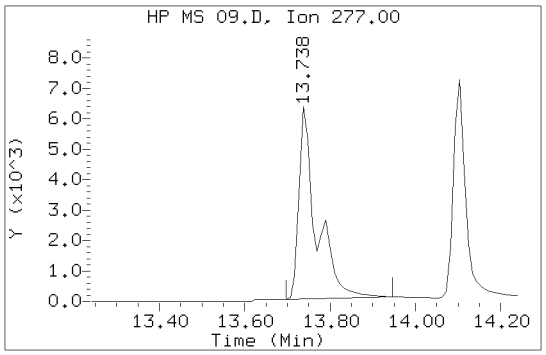
BEFORE

MASS
277
AREA
17958
HEIGHT
6332
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
17958
HEIGHT
6332
18-Dec-2023
10:16
linh
pham



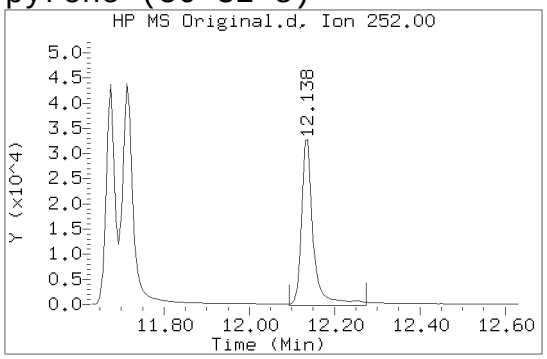
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Benzo(a)pyrene (50-32-8)

Reason Code:

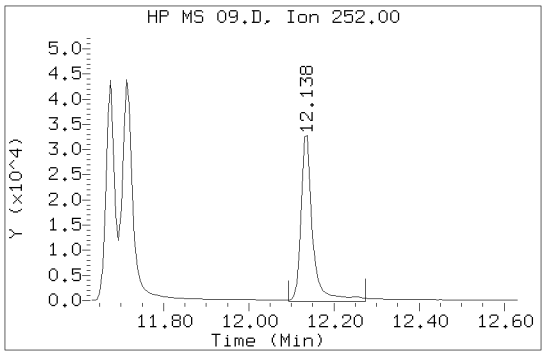
BEFORE

MASS
252
AREA
64341
HEIGHT
32933
18-Dec-2023
10:16
linh
pham



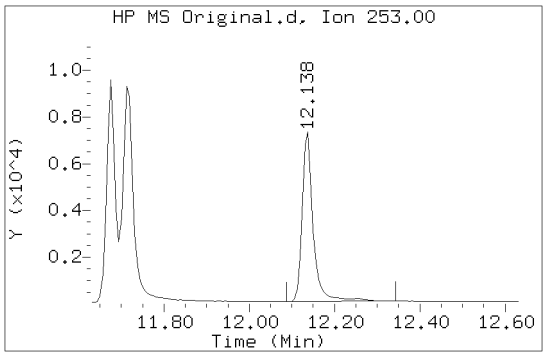
AFTER

MASS
252
AREA
64341
HEIGHT
32933
18-Dec-2023
10:16
linh
pham



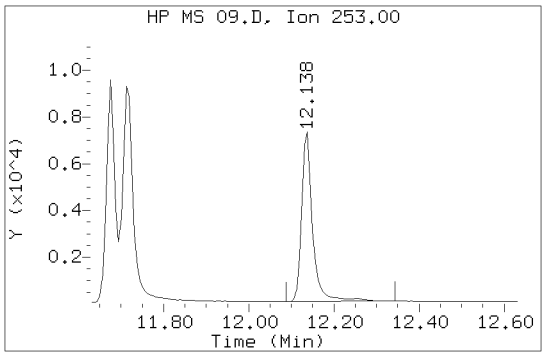
BEFORE

MASS
253
AREA
13238
HEIGHT
7270
18-Dec-2023
10:16
linh
pham



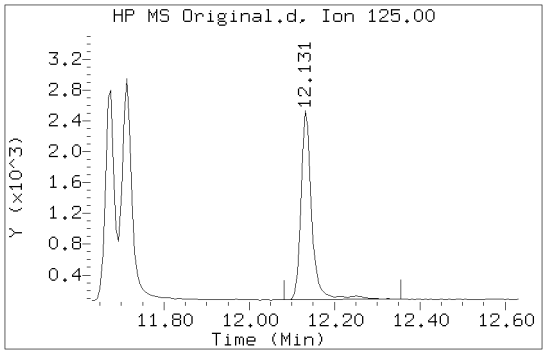
AFTER

MASS
253
AREA
13238
HEIGHT
7270
18-Dec-2023
10:16
linh
pham



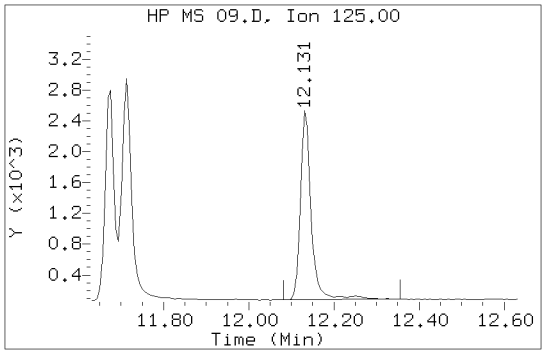
BEFORE

MASS
125
AREA
4385
HEIGHT
2456
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
4385
HEIGHT
2456
18-Dec-2023
10:16
linh
pham

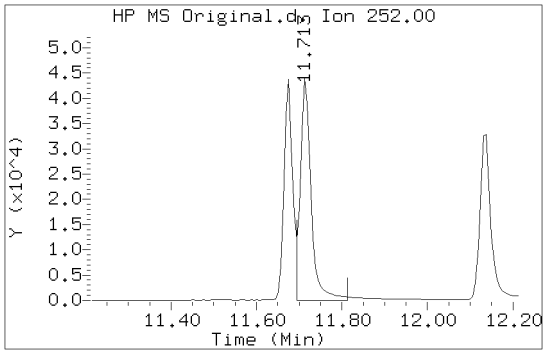


Benzo(k)fluoranthene (207-08-9)

Reason Code:

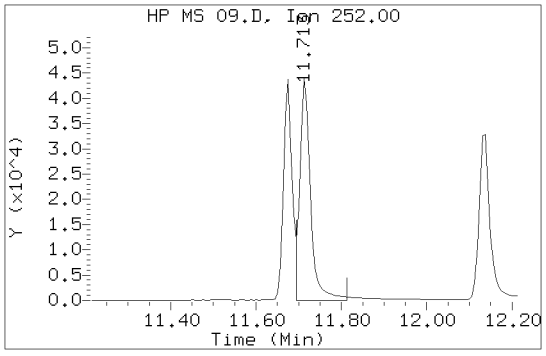
BEFORE

MASS
252
AREA
77579
HEIGHT
43820
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
77579
HEIGHT
43820
18-Dec-2023
10:16
linh
pham



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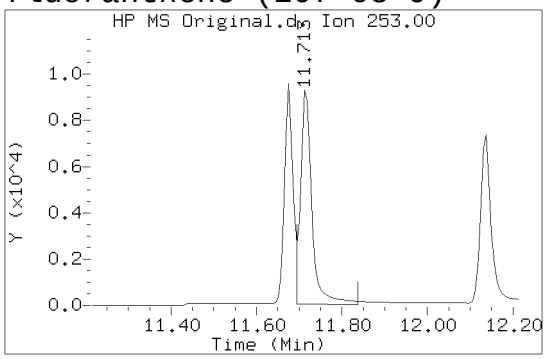
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Benzo(k)fluoranthene (207-08-9)

Reason Code:

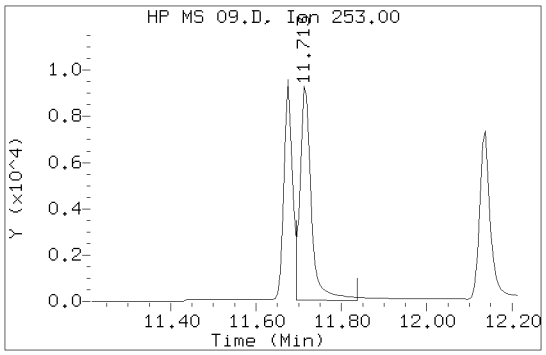
BEFORE

MASS
253
AREA
17280
HEIGHT
9264
18-Dec-2023
10:16
linh
pham



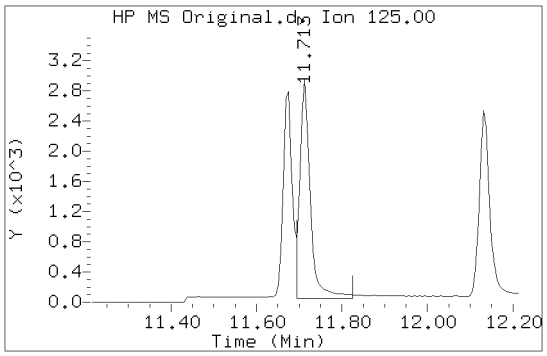
AFTER

MASS
253
AREA
17280
HEIGHT
9264
18-Dec-2023
10:16
linh
pham



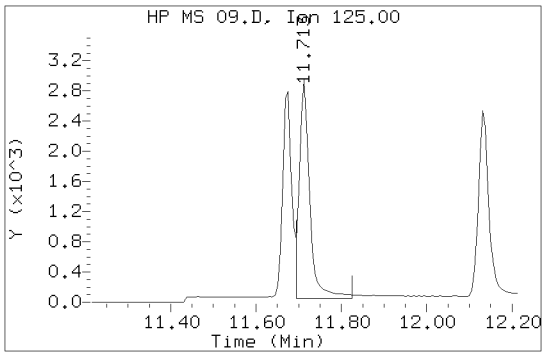
BEFORE

MASS
125
AREA
5006
HEIGHT
2896
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
5006
HEIGHT
2896
18-Dec-2023
10:16
linh
pham

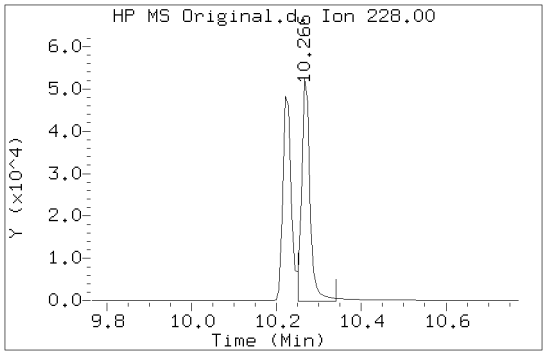


Chrysene (218-01-9)

Reason Code:

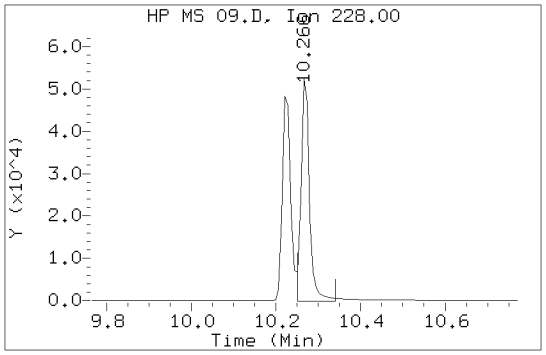
BEFORE

MASS
228
AREA
74306
HEIGHT
52462
18-Dec-2023
10:16
linh
pham



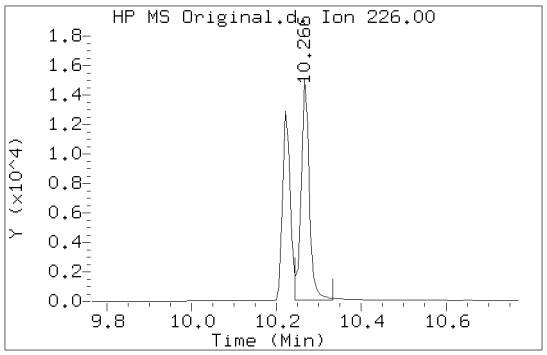
AFTER

MASS
228
AREA
74306
HEIGHT
52462
18-Dec-2023
10:16
linh
pham



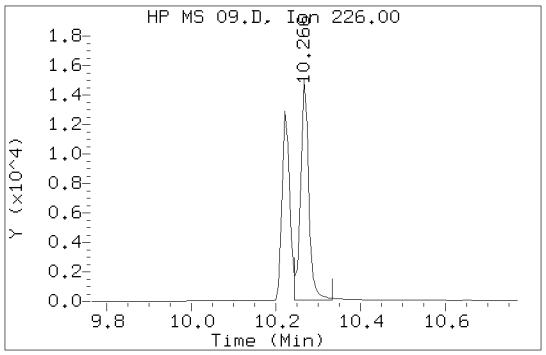
BEFORE

MASS
226
AREA
20815
HEIGHT
14976
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
20815
HEIGHT
14976
18-Dec-2023
10:16
linh
pham



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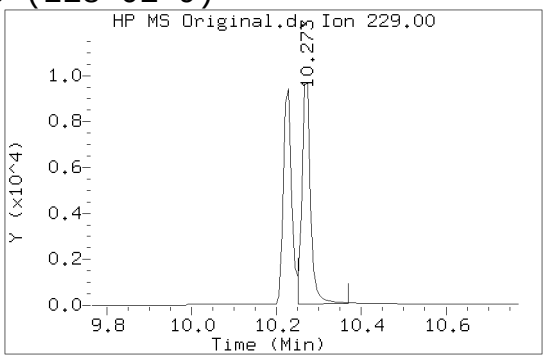
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Chrysene (218-01-9)

Reason Code:

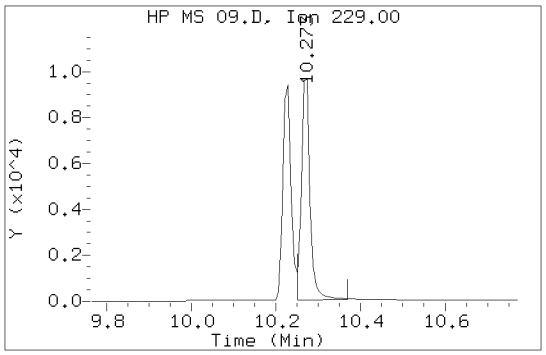
BEFORE

MASS
229
AREA
14264
HEIGHT
9593
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
14264
HEIGHT
9593
18-Dec-2023
10:16
linh
pham

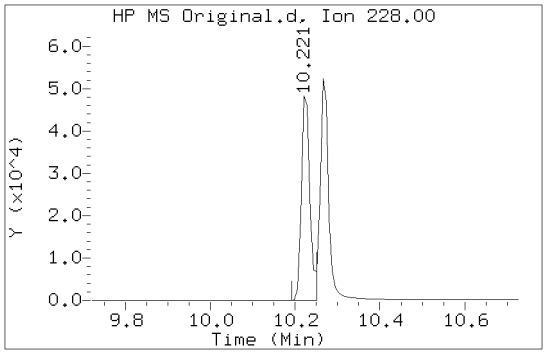


Benzo(a)Anthracene (56-55-3)

Reason Code:

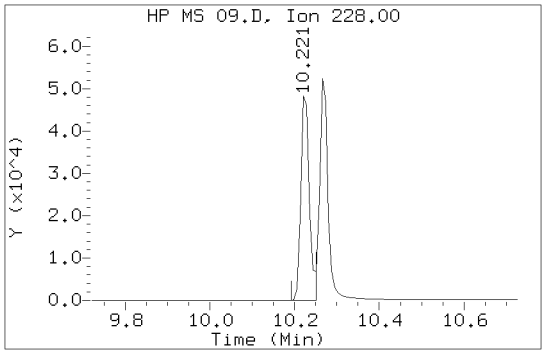
BEFORE

MASS
228
AREA
67102
HEIGHT
48245
18-Dec-2023
10:16
linh
pham



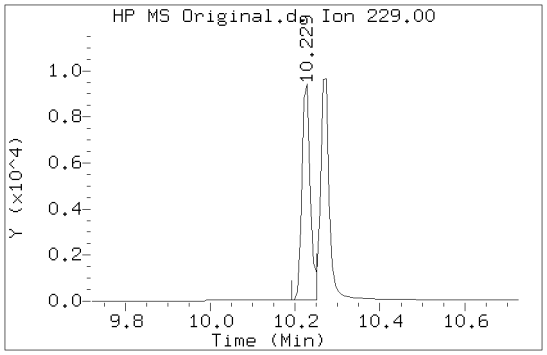
AFTER

MASS
228
AREA
67102
HEIGHT
48245
18-Dec-2023
10:16
linh
pham



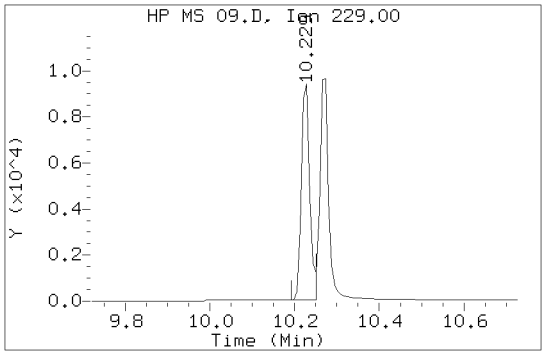
BEFORE

MASS
229
AREA
12851
HEIGHT
9394
18-Dec-2023
10:16
linh
pham



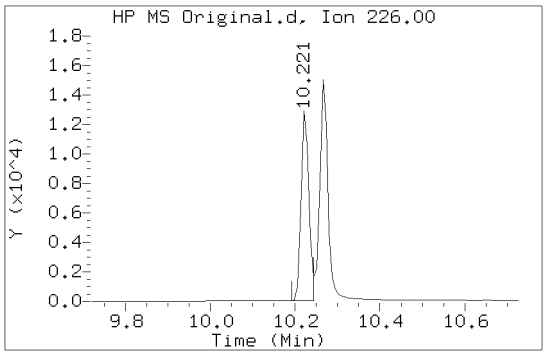
AFTER

MASS
229
AREA
12851
HEIGHT
9394
18-Dec-2023
10:16
linh
pham



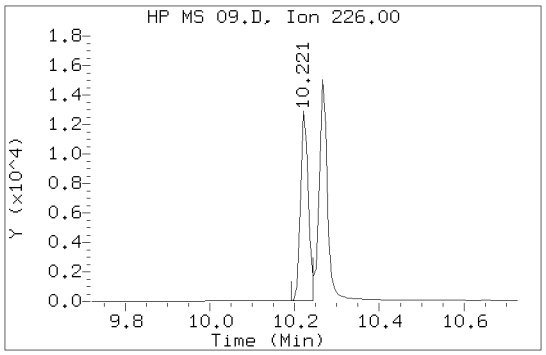
BEFORE

MASS
226
AREA
16283
HEIGHT
12886
18-Dec-2023
10:16
linh
pham



AFTER

MASS
226
AREA
16283
HEIGHT
12886
18-Dec-2023
10:16
linh
pham



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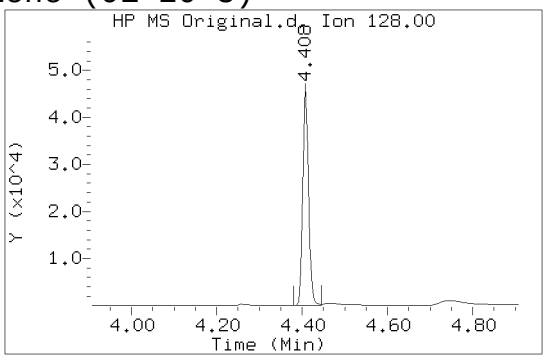
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Naphthalene (91-20-3)

Reason Code:

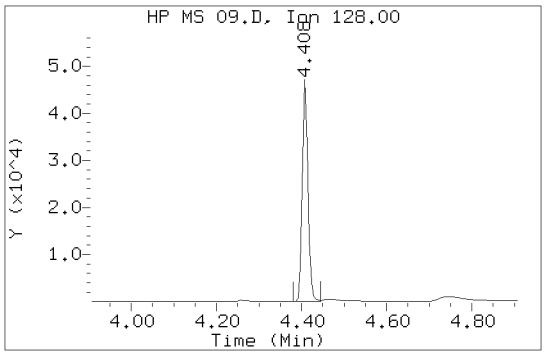
BEFORE

MASS
128
AREA
44126
HEIGHT
47089
18-Dec-2023
10:16
linh
pham



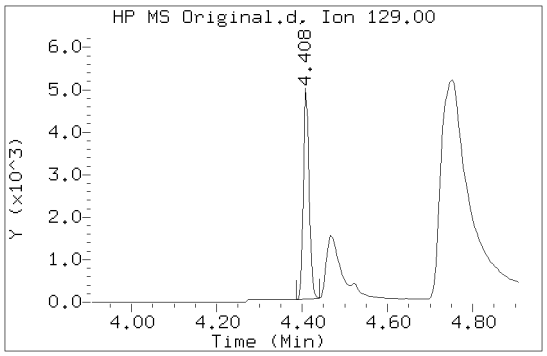
AFTER

MASS
128
AREA
44126
HEIGHT
47089
18-Dec-2023
10:16
linh
pham



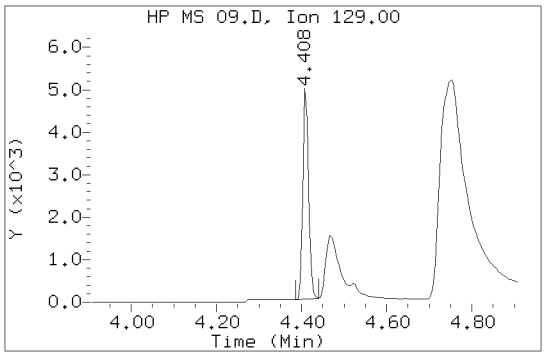
BEFORE

MASS
129
AREA
4723
HEIGHT
4969
18-Dec-2023
10:16
linh
pham



AFTER

MASS
129
AREA
4723
HEIGHT
4969
18-Dec-2023
10:16
linh
pham

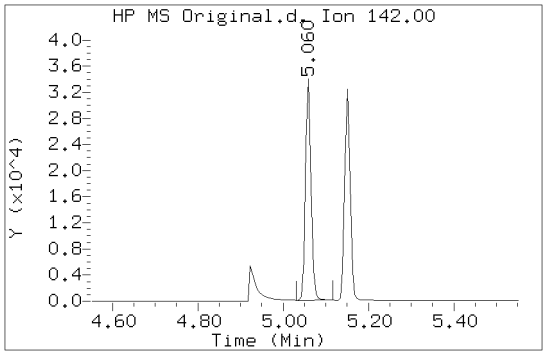


2-Methylnaphthalene (91-57-6)

Reason Code:

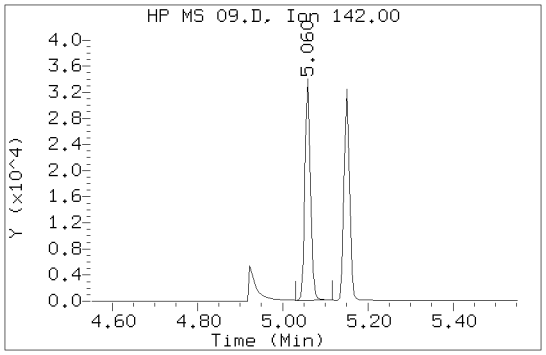
BEFORE

MASS
142
AREA
30275
HEIGHT
33892
18-Dec-2023
10:16
linh
pham



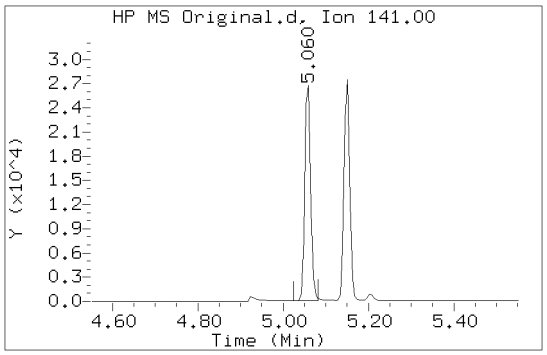
AFTER

MASS
142
AREA
30275
HEIGHT
33892
18-Dec-2023
10:16
linh
pham



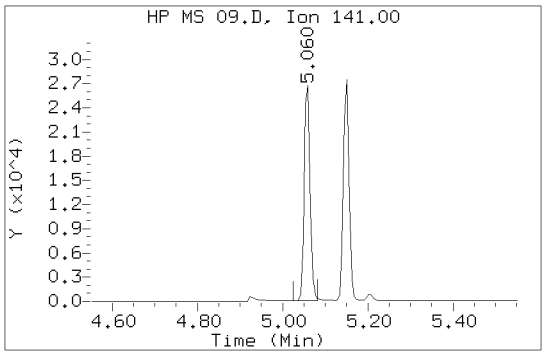
BEFORE

MASS
141
AREA
25610
HEIGHT
26726
18-Dec-2023
10:16
linh
pham



AFTER

MASS
141
AREA
25610
HEIGHT
26726
18-Dec-2023
10:16
linh
pham



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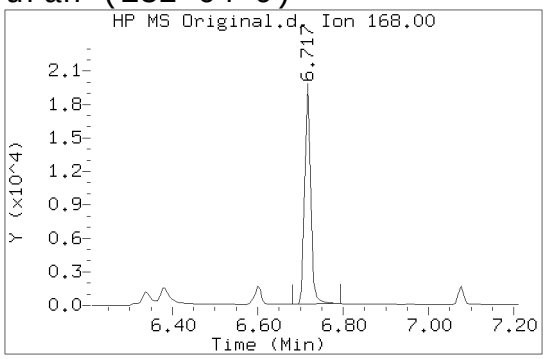
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Dibenzofuran (132-64-9)

Reason Code:

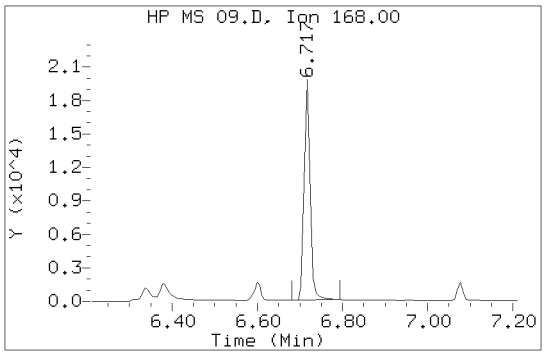
BEFORE

MASS
168
AREA
18738
HEIGHT
19747
18-Dec-2023
10:16
linh
pham



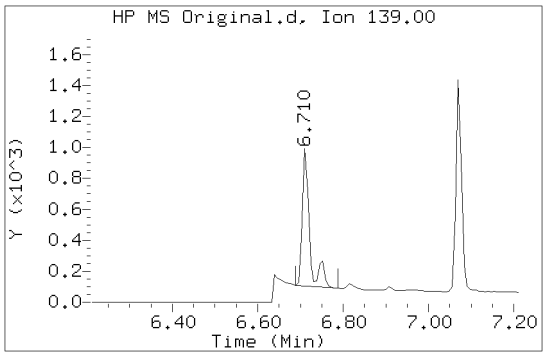
AFTER

MASS
168
AREA
18738
HEIGHT
19747
18-Dec-2023
10:16
linh
pham



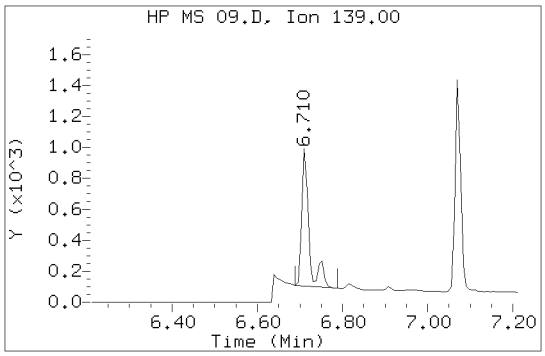
BEFORE

MASS
139
AREA
1040
HEIGHT
891
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
1040
HEIGHT
891
18-Dec-2023
10:16
linh
pham

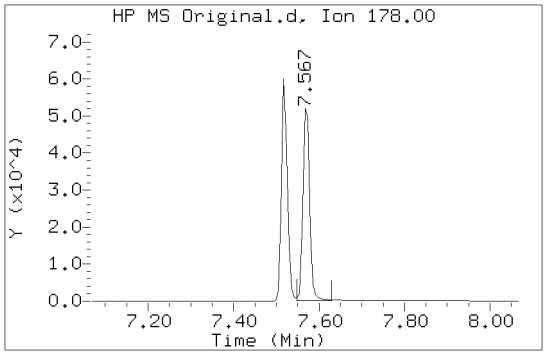


Anthracene (120-12-7)

Reason Code:

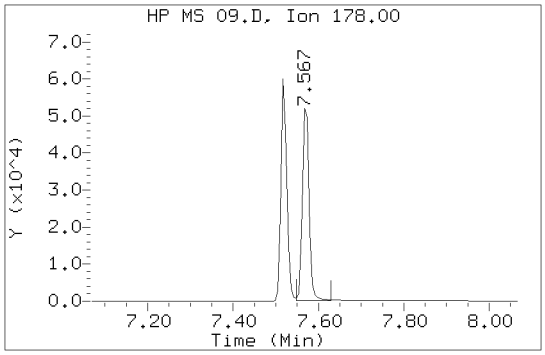
BEFORE

MASS
178
AREA
56240
HEIGHT
51854
18-Dec-2023
10:16
linh
pham



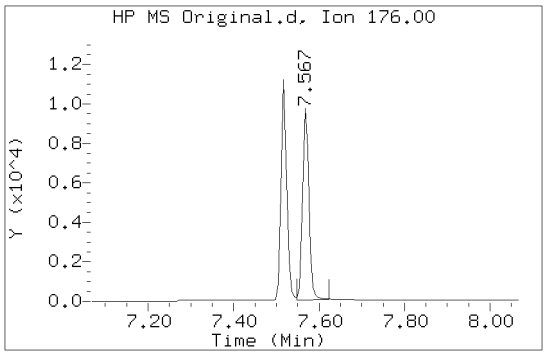
AFTER

MASS
178
AREA
56240
HEIGHT
51854
18-Dec-2023
10:16
linh
pham



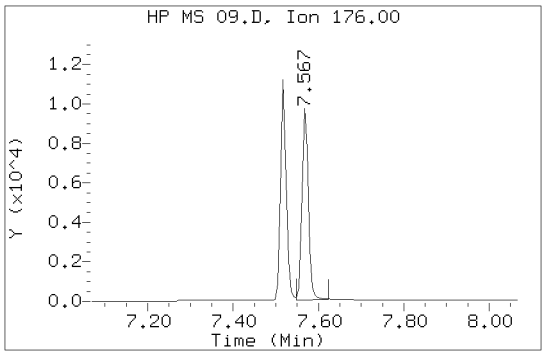
BEFORE

MASS
176
AREA
9794
HEIGHT
9685
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
9794
HEIGHT
9685
18-Dec-2023
10:16
linh
pham



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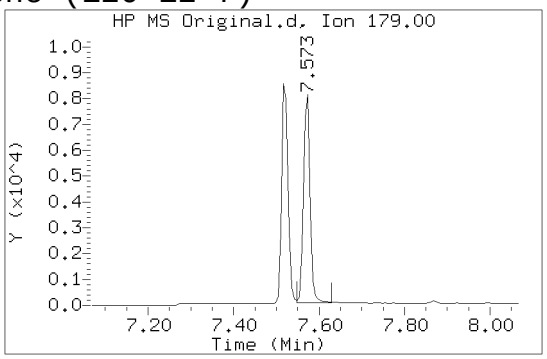
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Anthracene (120-12-7)

Reason Code:

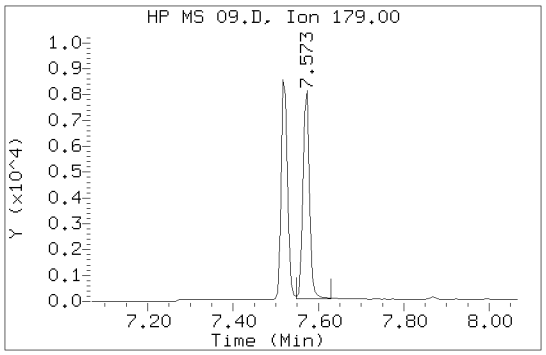
BEFORE

MASS
179
AREA
8519
HEIGHT
8067
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
8519
HEIGHT
8067
18-Dec-2023
10:16
linh
pham

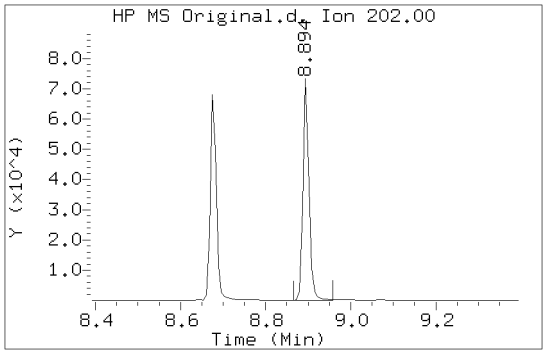


Pyrene (129-00-0)

Reason Code:

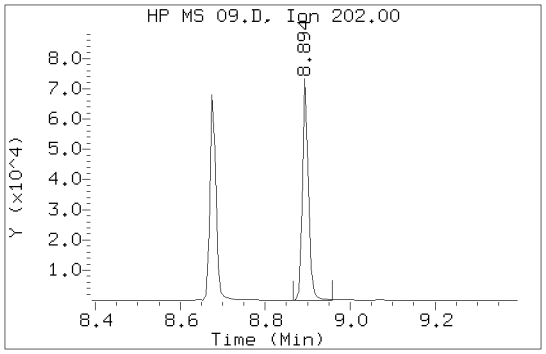
BEFORE

MASS
202
AREA
71204
HEIGHT
73233
18-Dec-2023
10:16
linh
pham



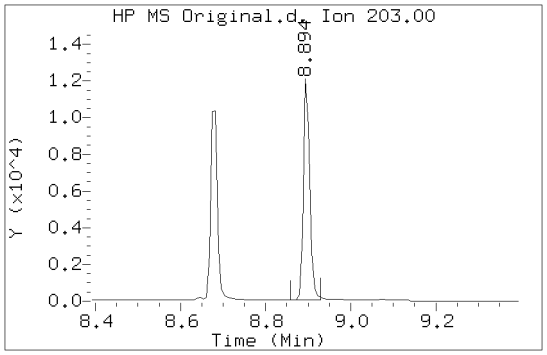
AFTER

MASS
202
AREA
71204
HEIGHT
73233
18-Dec-2023
10:16
linh
pham



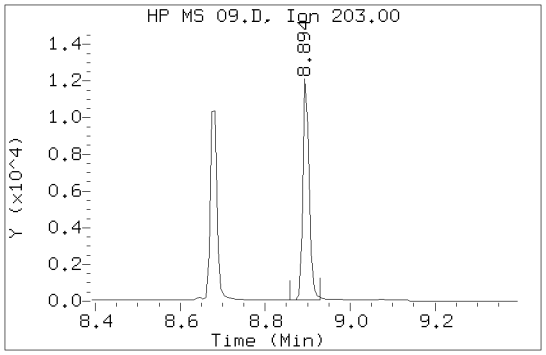
BEFORE

MASS
203
AREA
12346
HEIGHT
12049
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
12346
HEIGHT
12049
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
101
AREA
5784
HEIGHT
5919
18-Dec-2023
10:16
linh
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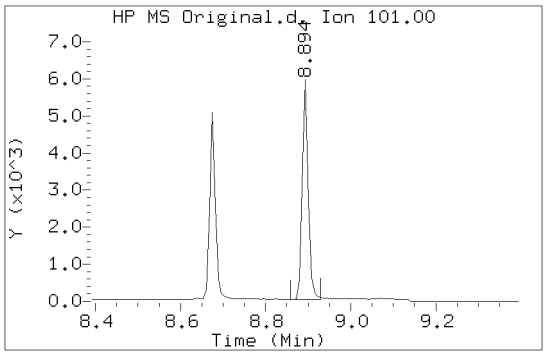
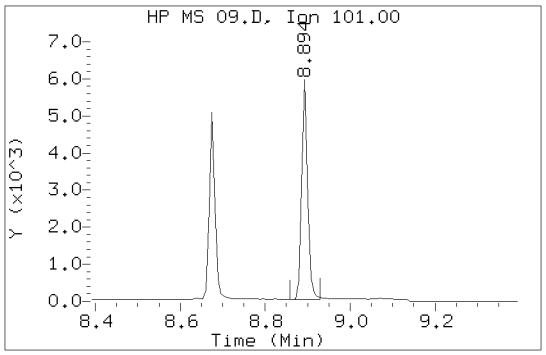


AFTER

MASS
101
AREA
5784
HEIGHT
5919
18-Dec-2023
10:16
linh
pham



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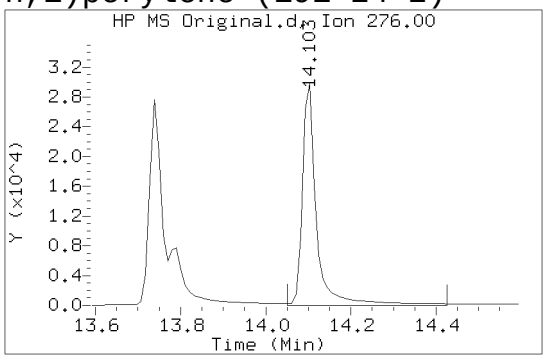
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Benzo(g,h,i)perylene (191-24-2)

Reason Code:

BEFORE

MASS
276
AREA
68404
HEIGHT
29782
18-Dec-2023
10:16
linh
pham



AFTER

MASS
276
AREA
68404
HEIGHT
29782
18-Dec-2023
10:16
linh
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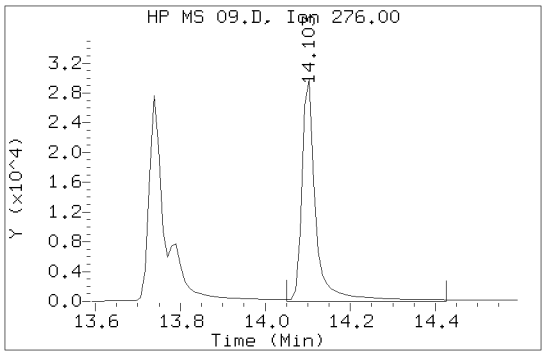
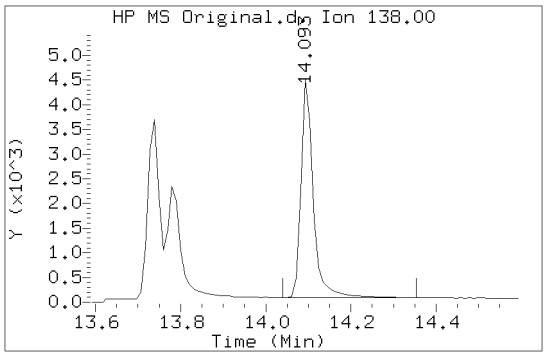


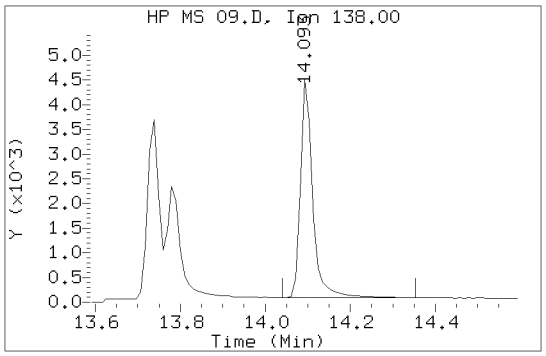
BEFORE

MASS
138
AREA
8729
HEIGHT
4411
18-Dec-2023
10:16
linh
pham



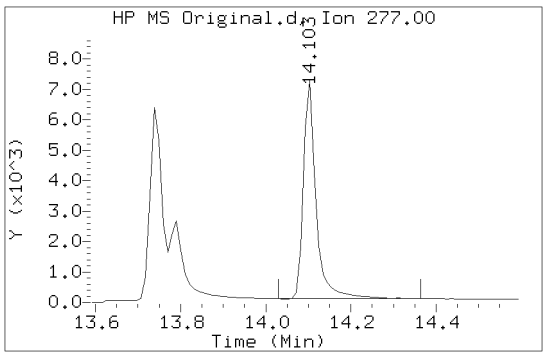
AFTER

MASS
138
AREA
8729
HEIGHT
4411
18-Dec-2023
10:16
linh
pham



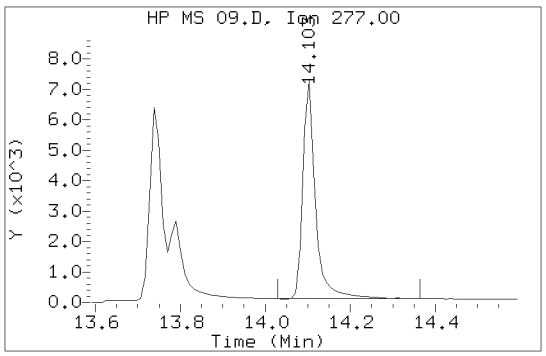
BEFORE

MASS
277
AREA
14756
HEIGHT
7165
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
14756
HEIGHT
7165
18-Dec-2023
10:16
linh
pham

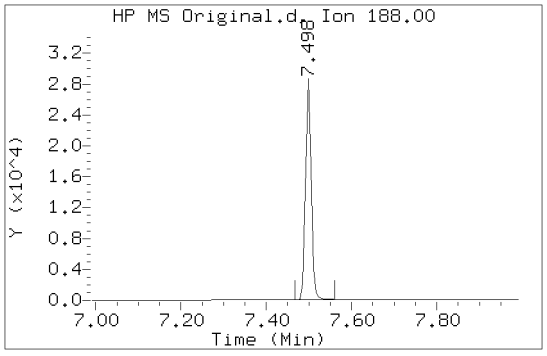


Phenanthrene-d10 (1517-22-2)

Reason Code:

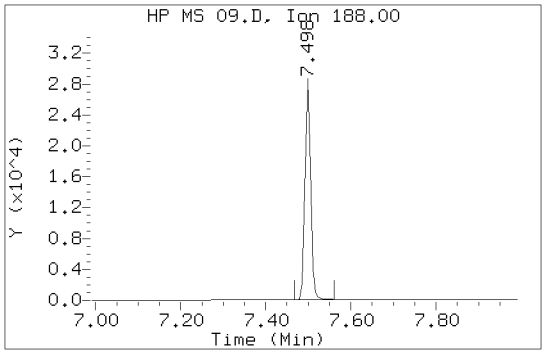
BEFORE

MASS
188
AREA
25613
HEIGHT
28649
18-Dec-2023
10:16
linh
pham



AFTER

MASS
188
AREA
25613
HEIGHT
28649
18-Dec-2023
10:16
linh
pham



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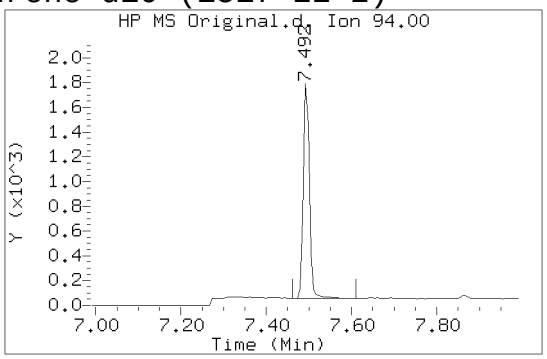
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Phenanthrene-d10 (1517-22-2)

Reason Code:

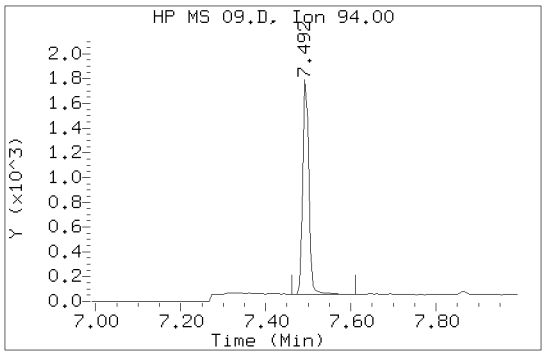
BEFORE

MASS
94
AREA
1646
HEIGHT
1732
18-Dec-2023
10:16
linh
pham



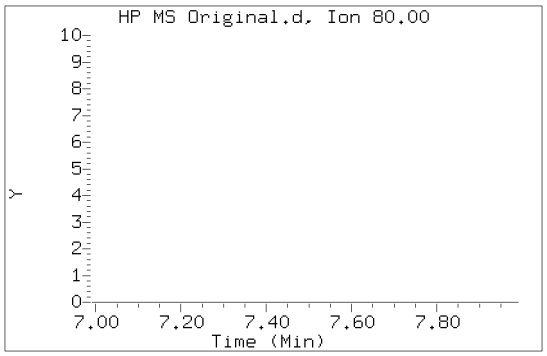
AFTER

MASS
94
AREA
1646
HEIGHT
1732
18-Dec-2023
10:16
linh
pham



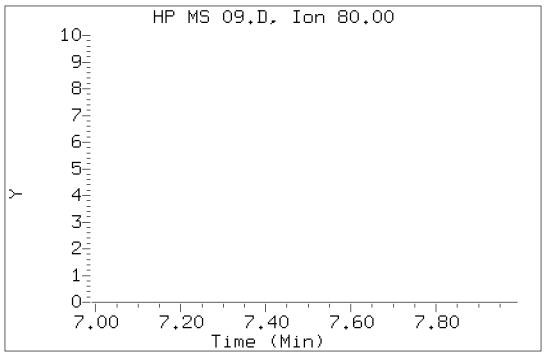
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham

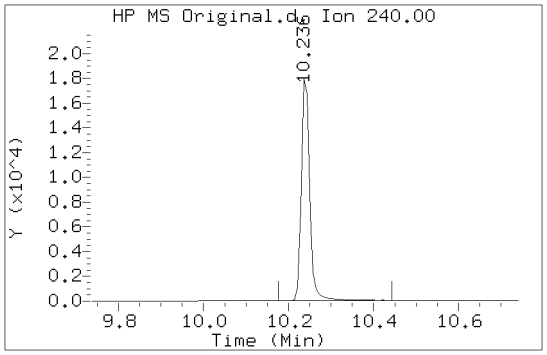


Chrysene-d12 (1719-03-5)

Reason Code:

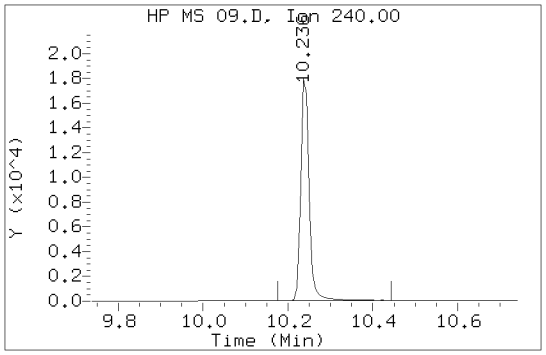
BEFORE

MASS
240
AREA
24600
HEIGHT
17904
18-Dec-2023
10:16
linh
pham



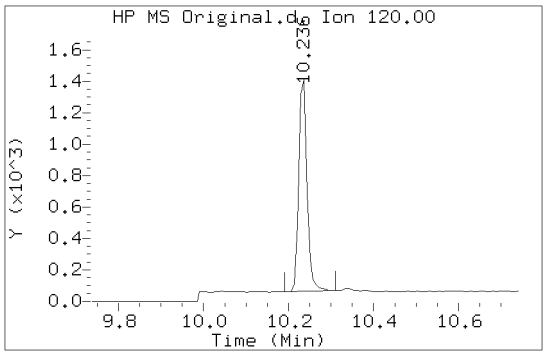
AFTER

MASS
240
AREA
24600
HEIGHT
17904
18-Dec-2023
10:16
linh
pham



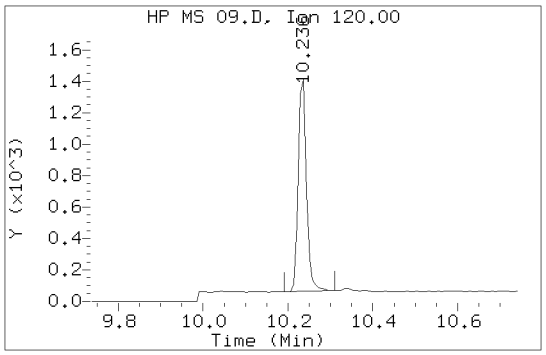
BEFORE

MASS
120
AREA
1798
HEIGHT
1344
18-Dec-2023
10:16
linh
pham



AFTER

MASS
120
AREA
1798
HEIGHT
1344
18-Dec-2023
10:16
linh
pham



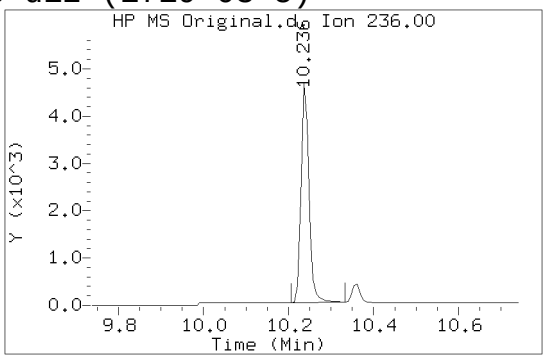
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

Chrysene-d12 (1719-03-5)

Reason Code:

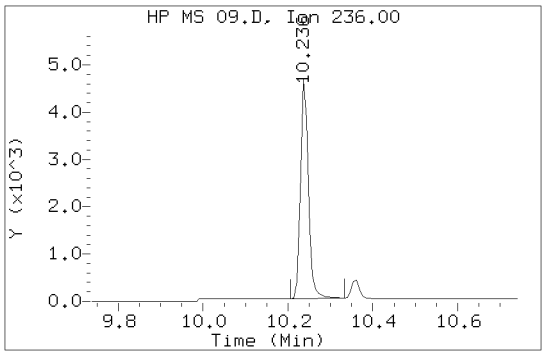
BEFORE

MASS
236
AREA
5994
HEIGHT
4630
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
5994
HEIGHT
4630
18-Dec-2023
10:16
linh
pham

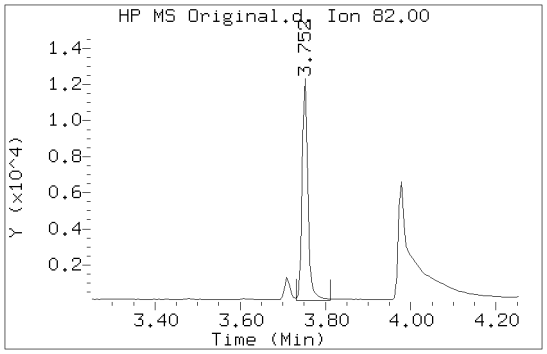


Nitrobenzene-d5 (4165-60-0)

Reason Code:

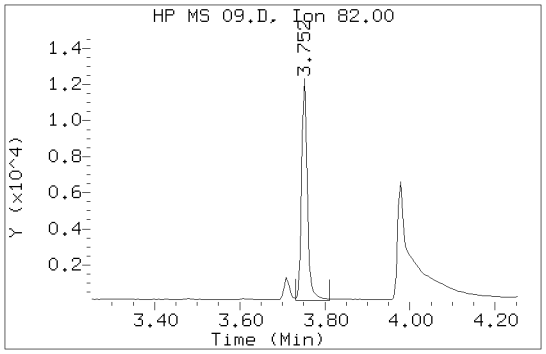
BEFORE

MASS
82
AREA
11339
HEIGHT
12271
18-Dec-2023
10:16
linh
pham



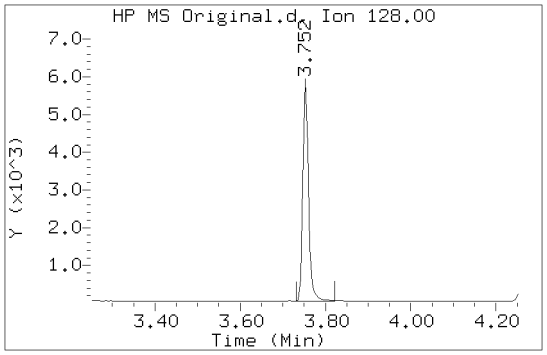
AFTER

MASS
82
AREA
11339
HEIGHT
12271
18-Dec-2023
10:16
linh
pham



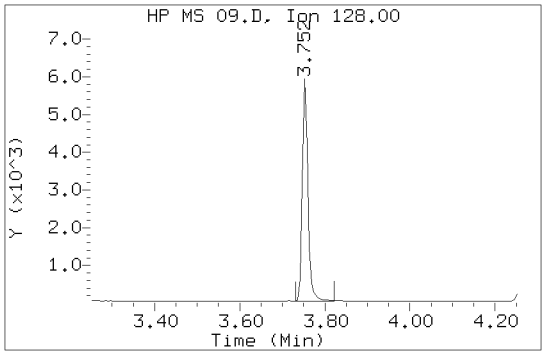
BEFORE

MASS
128
AREA
5249
HEIGHT
5890
18-Dec-2023
10:16
linh
pham



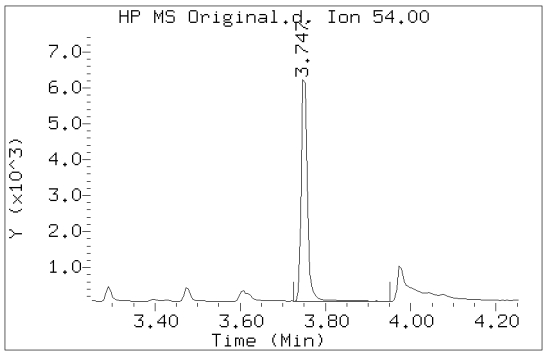
AFTER

MASS
128
AREA
5249
HEIGHT
5890
18-Dec-2023
10:16
linh
pham



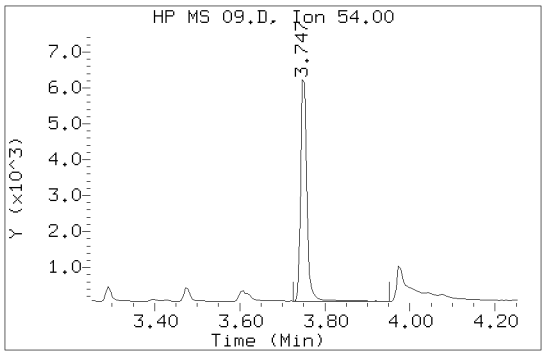
BEFORE

MASS
54
AREA
6228
HEIGHT
6166
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
6228
HEIGHT
6166
18-Dec-2023
10:16
linh
pham



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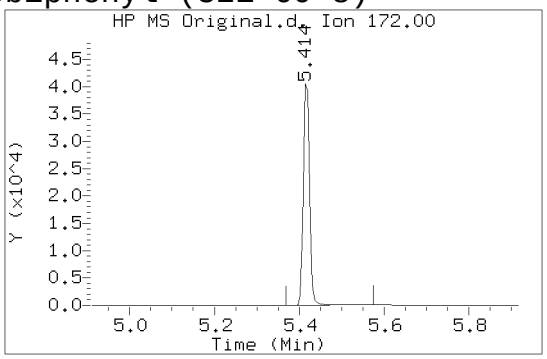
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

2-Fluorobiphenyl (321-60-8)

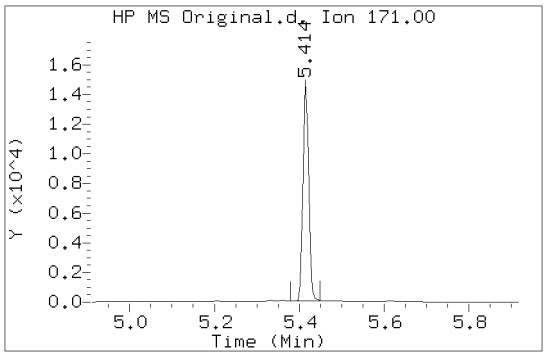
BEFORE

MASS
172
AREA
40079
HEIGHT
40484
18-Dec-2023
10:16
linh
pham



BEFORE

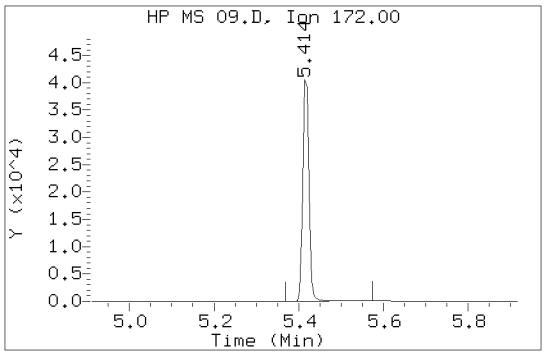
MASS
171
AREA
13405
HEIGHT
14904
18-Dec-2023
10:16
linh
pham



Reason Code:

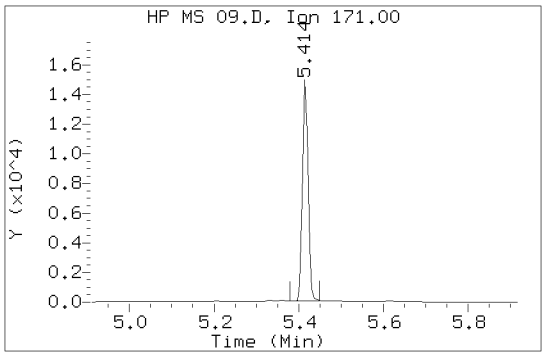
AFTER

MASS
172
AREA
40079
HEIGHT
40484
18-Dec-2023
10:16
linh
pham



AFTER

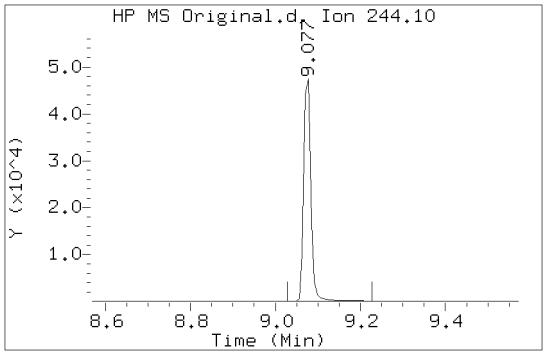
MASS
171
AREA
13405
HEIGHT
14904
18-Dec-2023
10:16
linh
pham



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

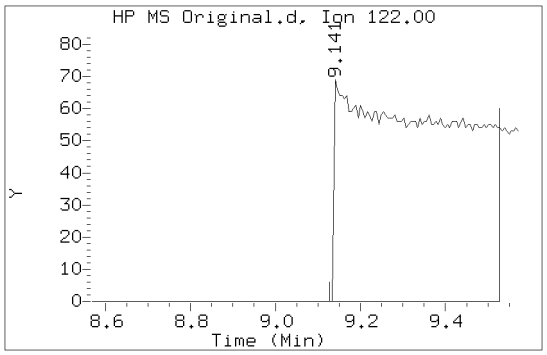
BEFORE

MASS
244.1
AREA
47723
HEIGHT
47403
18-Dec-2023
10:16
linh
pham



BEFORE

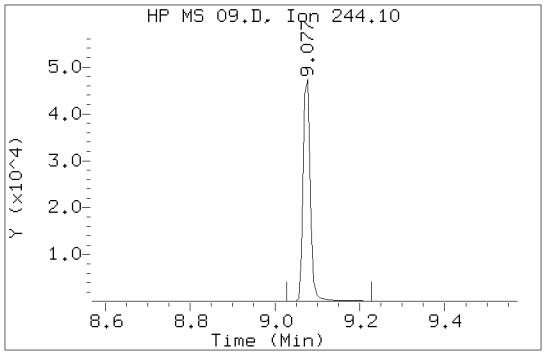
MASS
122
AREA
1351
HEIGHT
69
18-Dec-2023
10:16
linh
pham



Reason Code:

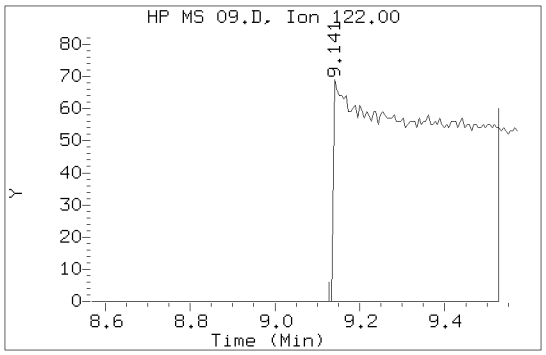
AFTER

MASS
244.1
AREA
47723
HEIGHT
47403
18-Dec-2023
10:16
linh
pham



AFTER

MASS
122
AREA
1351
HEIGHT
69
18-Dec-2023
10:16
linh
pham



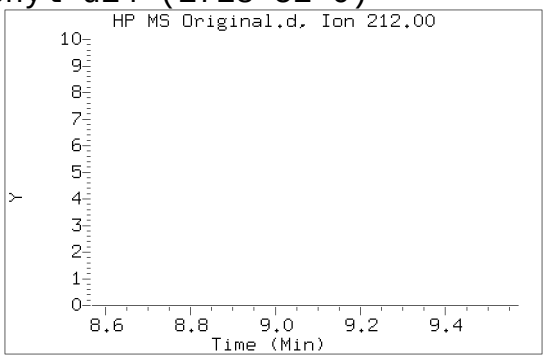
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\09.D
Inj Date : 12-DEC-2023 15:39
InstruID : SV6.i
LabSampID : PAHSIM-0.20

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

Reason Code:

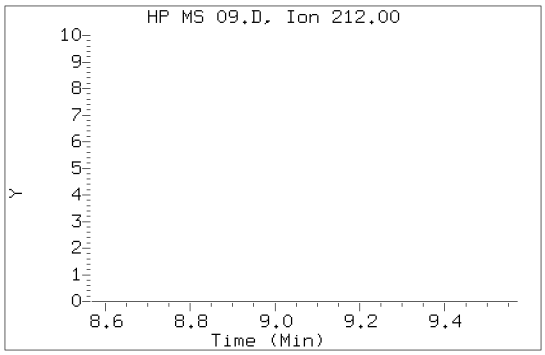
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Lab Smp Id: PAHSIM-0.50 Client Smp ID: PAHSIM-0.50
Inj Date : 12-DEC-2023 15:59
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM-0.50
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:39 Cal File: 09.D
Als bottle: 10 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.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)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	22630	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	31571	0.50000	0.5059(AM)
* 86 Acenaphthene-d10	164	6.058	6.058	(1.000)	14197	0.10000	
$ 69 2-Fluorobiphenyl	172	5.413	5.413	(0.894)	110011	0.50000	0.4866(AM)
* 126 Phenanthrene-d10	188	7.493	7.493	(1.000)	29477	0.10000	
* 182 Chrysene-d12	240	10.237	10.237	(1.000)	28359	0.10000	
$ 158 4-Terphenyl-d14	244	9.071	9.071	(0.886)	140743	0.50000	0.4887(AM)
* 198 Perylene-d12	264	12.220	12.220	(1.000)	30143	0.10000	
46 Naphthalene	128	4.407	4.407	(1.031)	120220	0.50000	0.4842
61 2-Methylnaphthalene	142	5.053	5.053	(1.183)	83121	0.50000	0.5006(A)
62 1-Methylnaphthalene	142	5.150	5.150	(1.205)	77104	0.50000	0.4977
83 Acenaphthylene	152	5.910	5.910	(0.976)	130746	0.50000	0.5037(A)
88 Acenaphthene	154	6.080	6.080	(1.004)	79145	0.50000	0.4835
98 Fluorene	166	6.583	6.583	(1.087)	100064	0.50000	0.4973
92 Dibenzofuran	168	6.711	6.711	(1.108)	54352	0.50000	0.5122(AM)
128 Phenanthrene	178	7.518	7.518	(1.003)	158427	0.50000	0.4910
130 Anthracene	178	7.568	7.568	(1.010)	161208	0.50000	0.5014(AM)
149 Fluoranthene	202	8.676	8.676	(1.158)	192859	0.50000	0.5026(AM)
155 Pyrene	202	8.895	8.895	(0.869)	202802	0.50000	0.4919(M)

181 Benzo(a)Anthracene	228	10.222	10.222 (0.999)	192587	0.50000	0.5008(A)
183 Chrysene	228	10.267	10.267 (1.003)	210602	0.50000	0.4913(M)

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(NG)	(NG)
192 Benzo(b)fluoranthene	252	11.670	11.670	(0.955)	184151	0.50000	0.4922
195 Benzo(k)fluoranthene	252	11.714	11.714	(0.959)	228007	0.50000	0.5036(AM)
197 Benzo(a)pyrene	252	12.132	12.132	(0.993)	182895	0.50000	0.5043(AM)
209 Indeno(1,2,3-cd)pyrene	276	13.739	13.739	(1.124)	217277	0.50000	0.5007(AM)
210 Dibenzo(a,h)anthracene	278	13.791	13.791	(1.129)	180668	0.50000	0.5012(AM)
212 Benzo(g,h,i)perylene	276	14.094	14.094	(1.153)	183621	0.50000	0.4738(M)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D

Date : 12-DEC-2023 15:59

Client ID: PAHSIM-0.50

Instrument: SV6.i

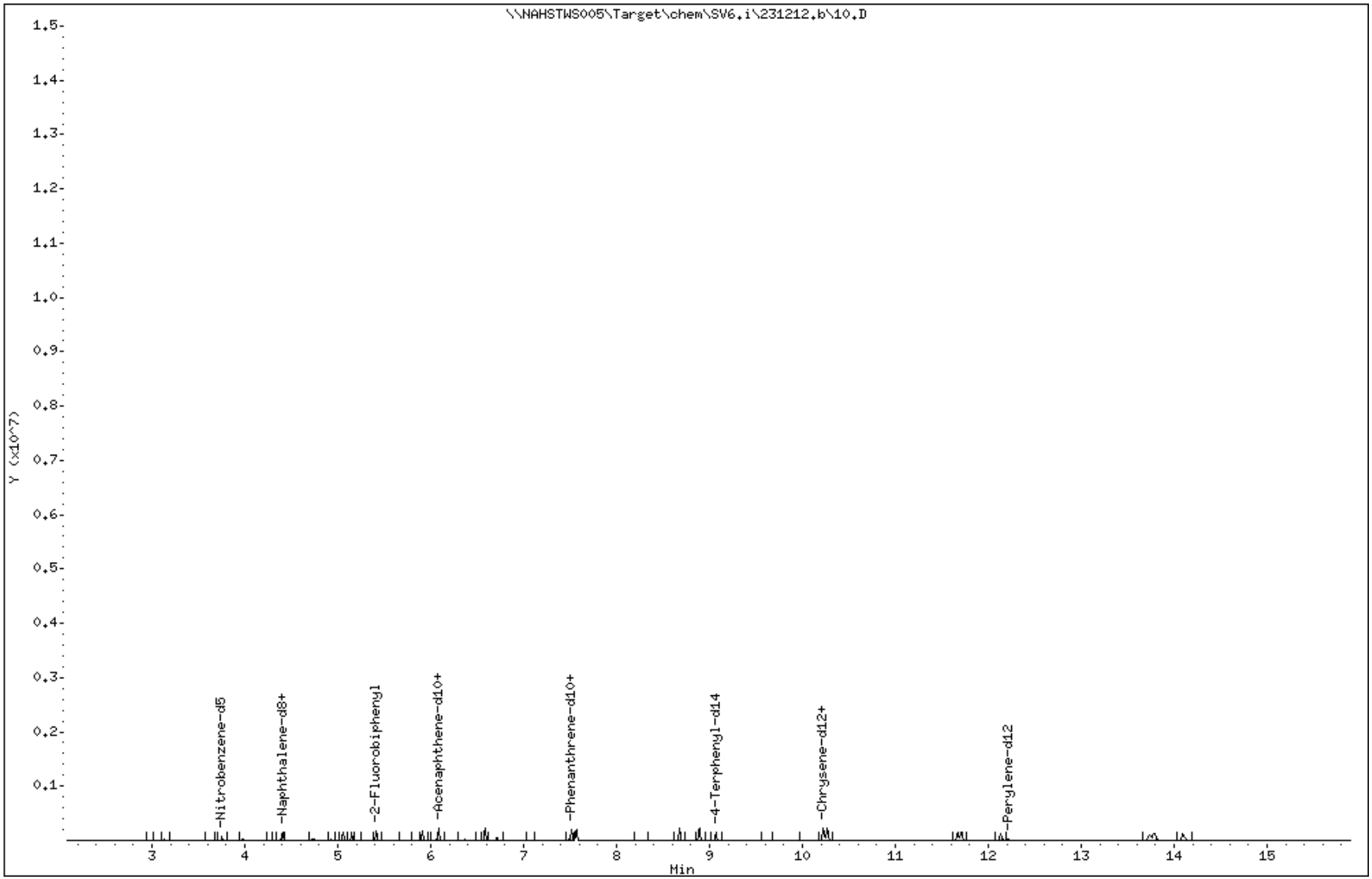
Sample Info: PAHSIM-0.50

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



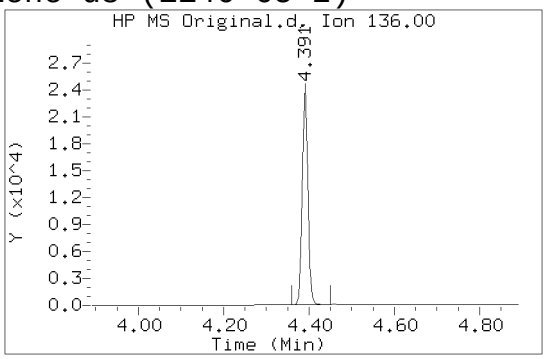
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Naphthalene-d8 (1146-65-2)

Reason Code:

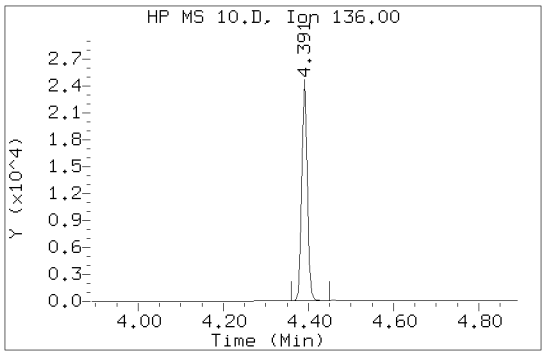
BEFORE

MASS
136
AREA
22630
HEIGHT
24658
18-Dec-2023
10:16
linh
pham



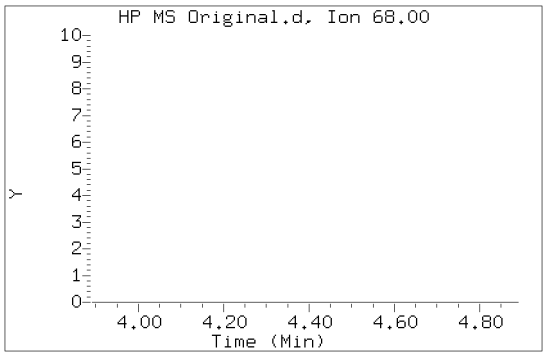
AFTER

MASS
136
AREA
22630
HEIGHT
24658
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
68
AREA
0
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
68
AREA
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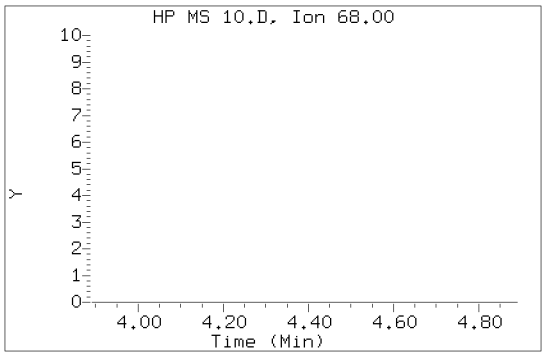
HEIGHT
0
18-Dec-2023
10:16
linh
pham

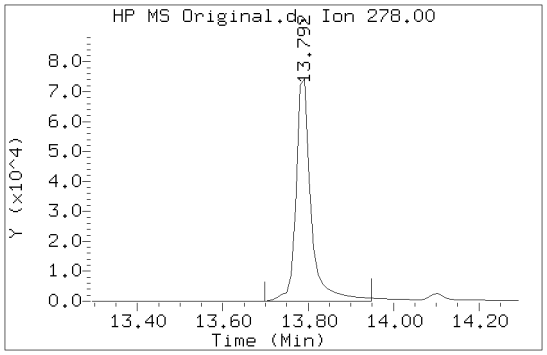


Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

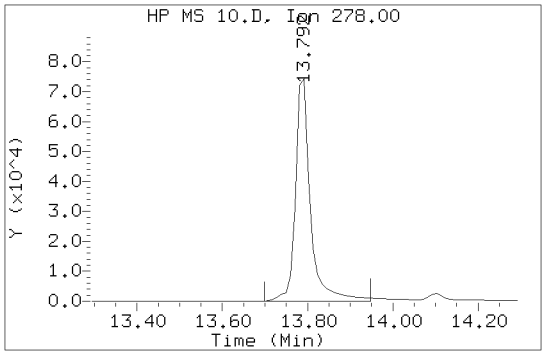
BEFORE

MASS
278
AREA
180668
HEIGHT
74252
18-Dec-2023
10:16
linh
pham



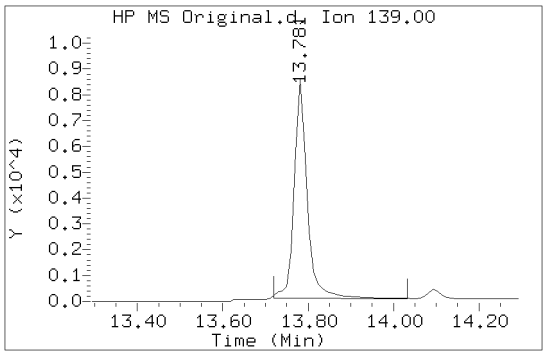
AFTER

MASS
278
AREA
180668
HEIGHT
74252
18-Dec-2023
10:16
linh
pham



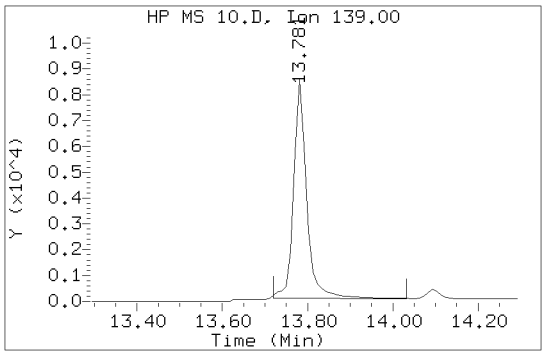
BEFORE

MASS
139
AREA
18114
HEIGHT
8475
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
18114
HEIGHT
8475
18-Dec-2023
10:16
linh
pham



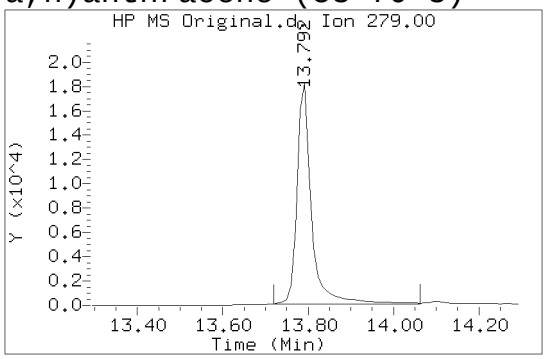
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

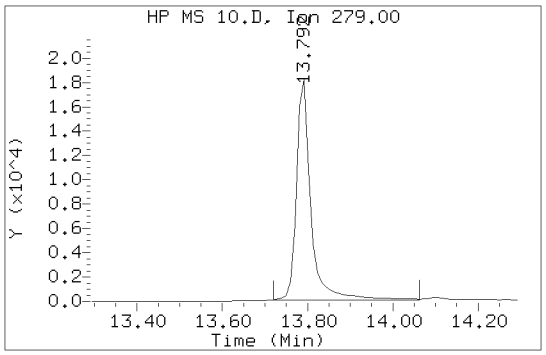
BEFORE

MASS
279
AREA
42443
HEIGHT
18124
18-Dec-2023
10:16
linh
pham



AFTER

MASS
279
AREA
42443
HEIGHT
18124
18-Dec-2023
10:16
linh
pham

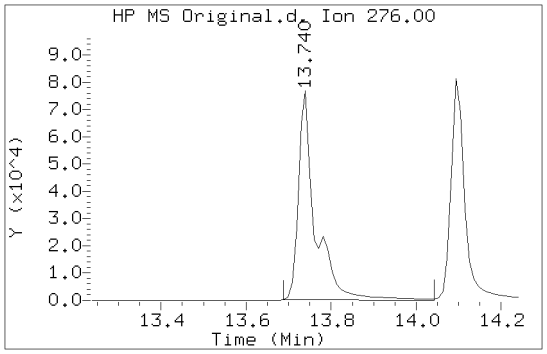


Indeno(1,2,3-cd)pyrene (193-39-5)

Reason Code:

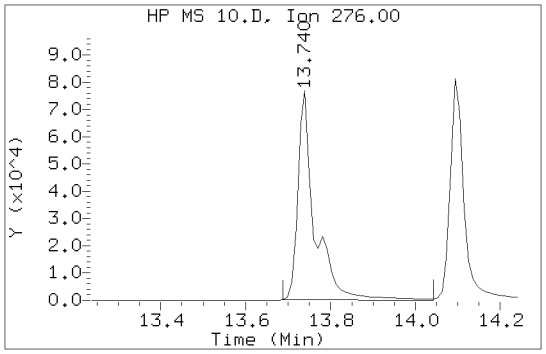
BEFORE

MASS
276
AREA
217277
HEIGHT
76840
18-Dec-2023
10:16
linh
pham



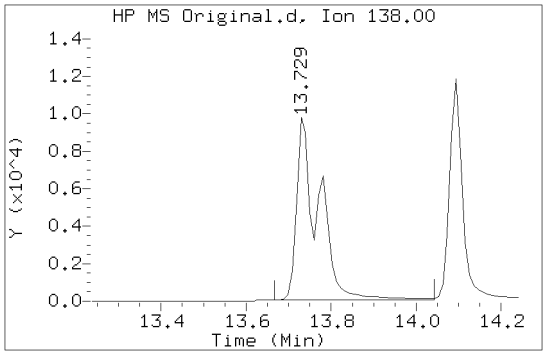
AFTER

MASS
276
AREA
217277
HEIGHT
76840
18-Dec-2023
10:16
linh
pham



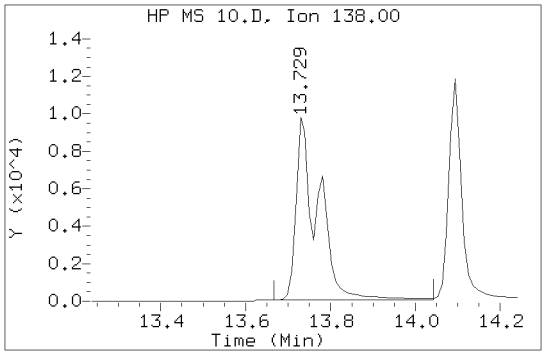
BEFORE

MASS
138
AREA
35678
HEIGHT
9739
18-Dec-2023
10:16
linh
pham



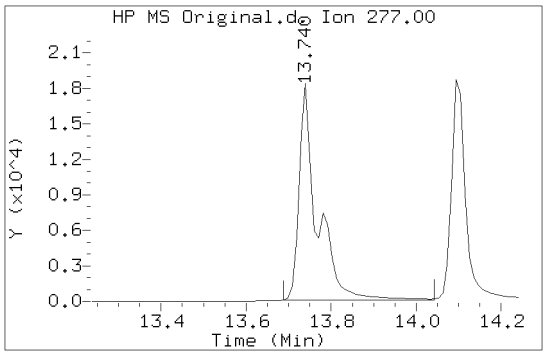
AFTER

MASS
138
AREA
35678
HEIGHT
9739
18-Dec-2023
10:16
linh
pham



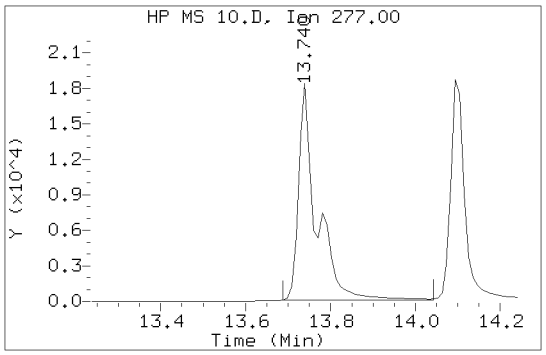
BEFORE

MASS
277
AREA
55424
HEIGHT
18321
18-Dec-2023
10:16
linh
pham



AFTER

MASS
277
AREA
55424
HEIGHT
18321
18-Dec-2023
10:16
linh
pham



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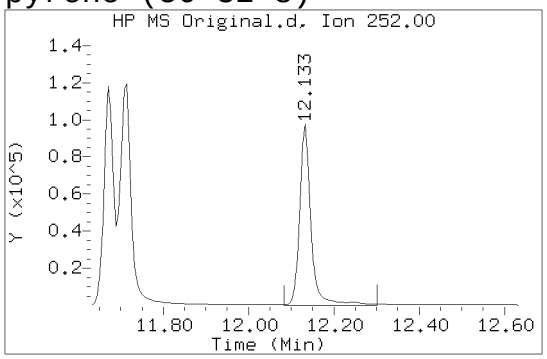
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Benzo(a)pyrene (50-32-8)

Reason Code:

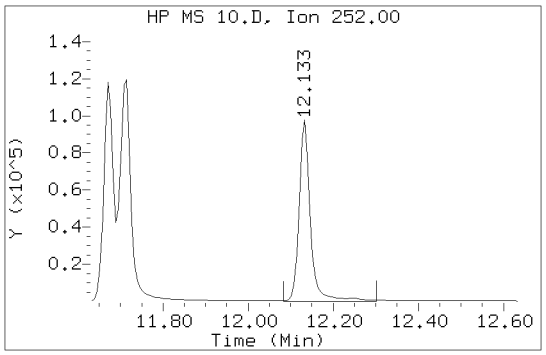
BEFORE

MASS
252
AREA
182895
HEIGHT
97759
18-Dec-2023
10:16
linh
pham



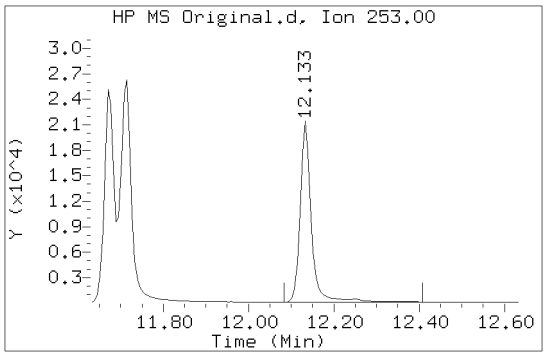
AFTER

MASS
252
AREA
182895
HEIGHT
97759
18-Dec-2023
10:16
linh
pham



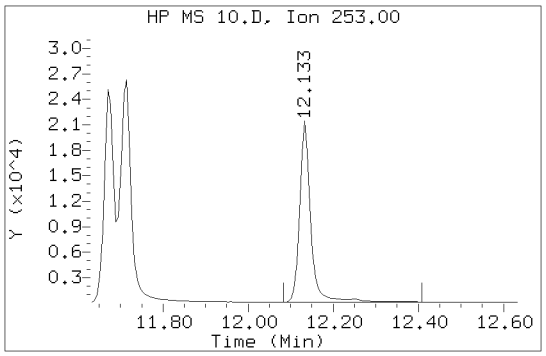
BEFORE

MASS
253
AREA
38846
HEIGHT
21301
18-Dec-2023
10:16
linh
pham



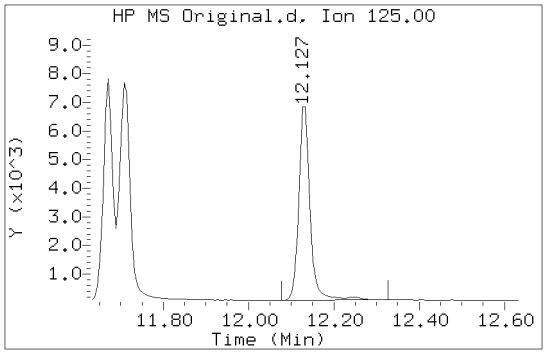
AFTER

MASS
253
AREA
38846
HEIGHT
21301
18-Dec-2023
10:16
linh
pham



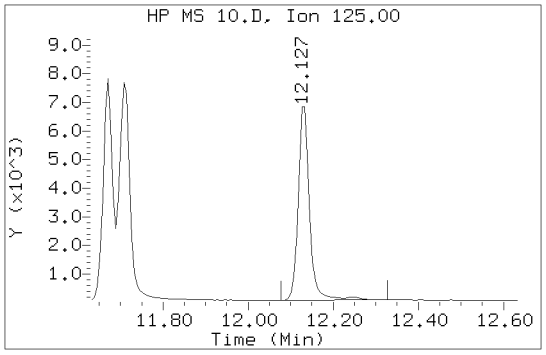
BEFORE

MASS
125
AREA
12592
HEIGHT
6754
18-Dec-2023
10:16
linh
pham



AFTER

MASS
125
AREA
12592
HEIGHT
6754
18-Dec-2023
10:16
linh
pham

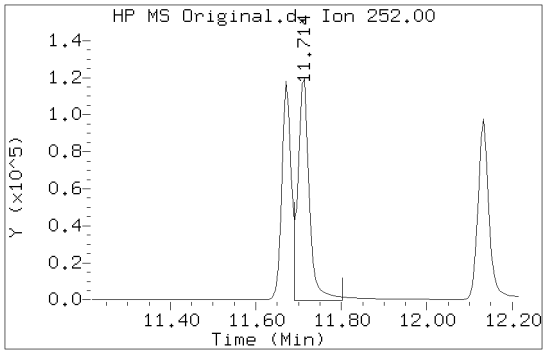


Benzo(k)fluoranthene (207-08-9)

Reason Code:

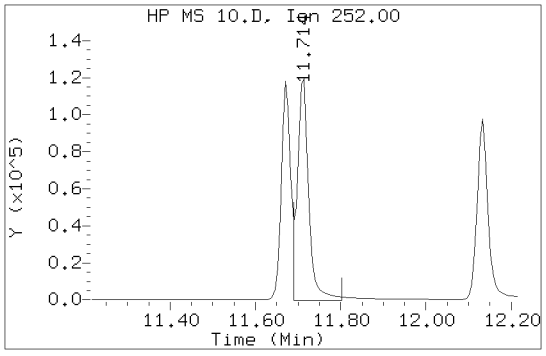
BEFORE

MASS
252
AREA
228007
HEIGHT
119657
18-Dec-2023
10:16
linh
pham



AFTER

MASS
252
AREA
228007
HEIGHT
119657
18-Dec-2023
10:16
linh
pham



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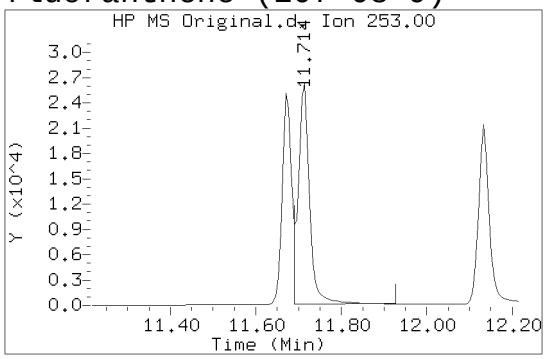
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Benzo(k)fluoranthene (207-08-9)

Reason Code:

BEFORE
MASS
253
AREA
49284
HEIGHT
26133
18-Dec-2023
10:16
linh
pham



AFTER
MASS
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AREA
49284
HEIGHT
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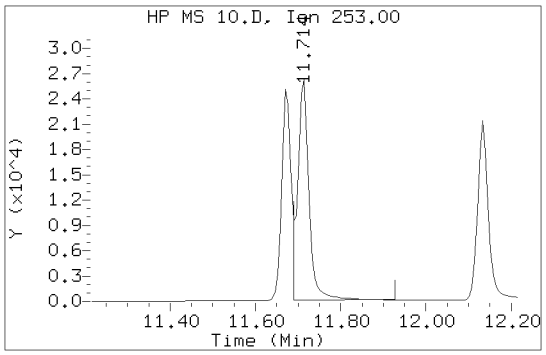
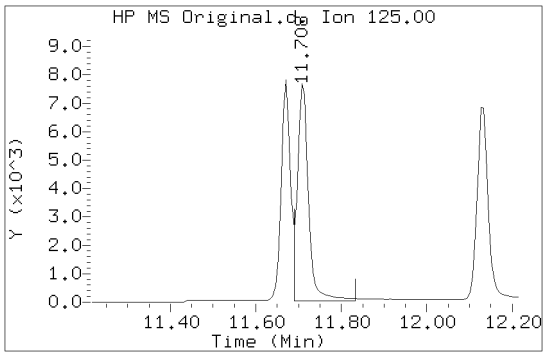
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
125
AREA
14142
HEIGHT
7646
18-Dec-2023
10:16
linh
pham



AFTER
MASS
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AREA
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HEIGHT
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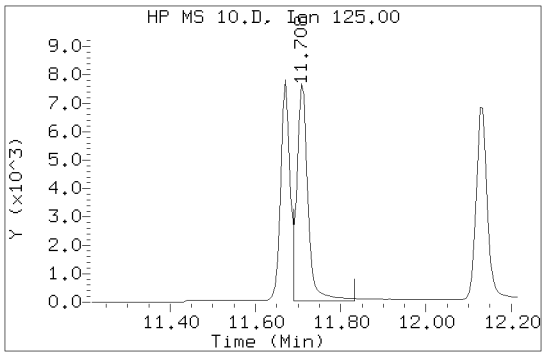
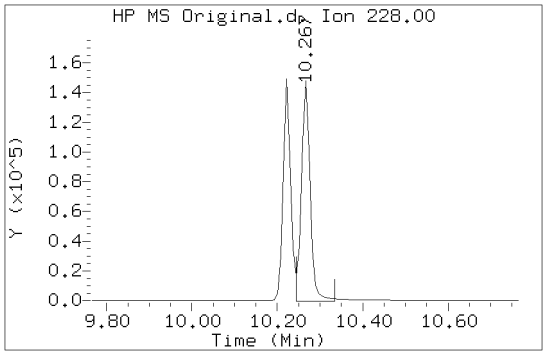
18-Dec-2023
10:16
linh
pham



Chrysene (218-01-9)

Reason Code:

BEFORE
MASS
228
AREA
210602
HEIGHT
148295
18-Dec-2023
10:16
linh
pham



AFTER
MASS
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AREA
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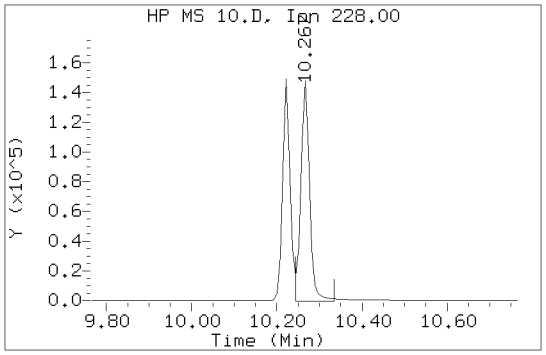
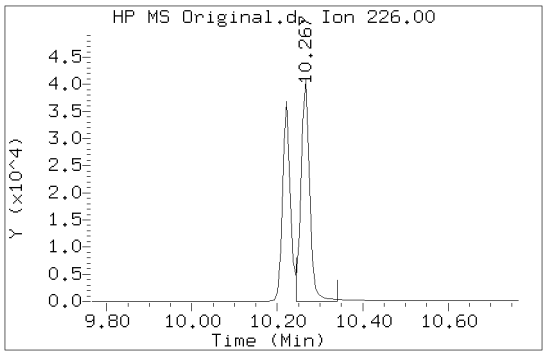
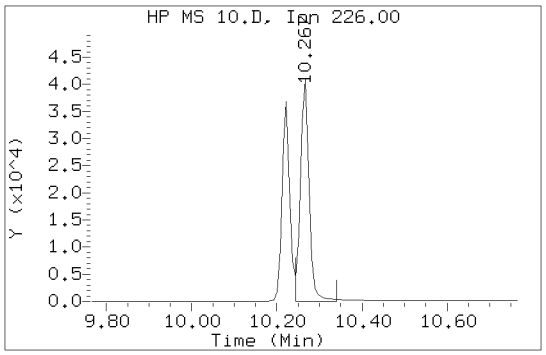
HEIGHT
148295
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
226
AREA
57456
HEIGHT
40793
18-Dec-2023
10:16
linh
pham



AFTER
MASS
226
AREA
57456
HEIGHT
40793
18-Dec-2023
10:16
linh
pham



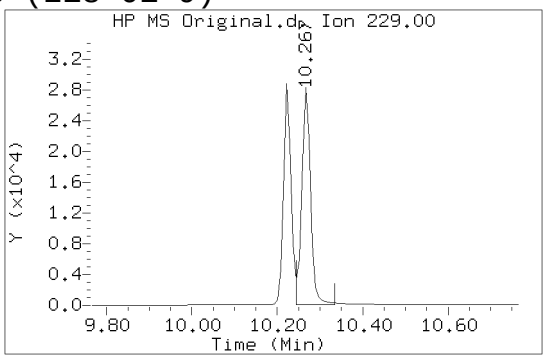
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\10.D
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Chrysene (218-01-9)

Reason Code:

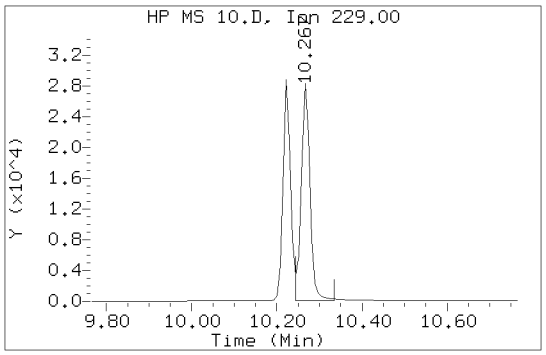
BEFORE

MASS
229
AREA
40267
HEIGHT
28218
18-Dec-2023
10:16
linh
pham



AFTER

MASS
229
AREA
40267
HEIGHT
28218
18-Dec-2023
10:16
linh
pham

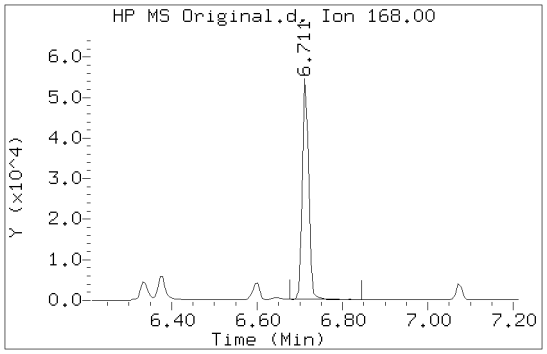


Dibenzofuran (132-64-9)

Reason Code:

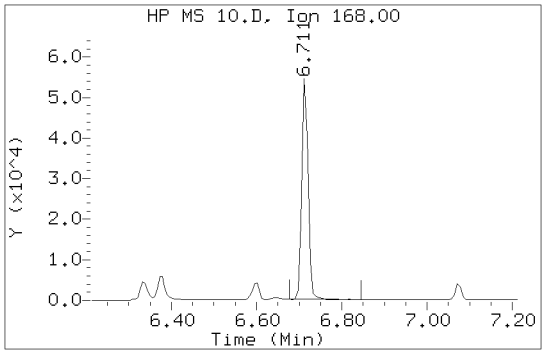
BEFORE

MASS
168
AREA
54352
HEIGHT
54390
18-Dec-2023
10:16
linh
pham



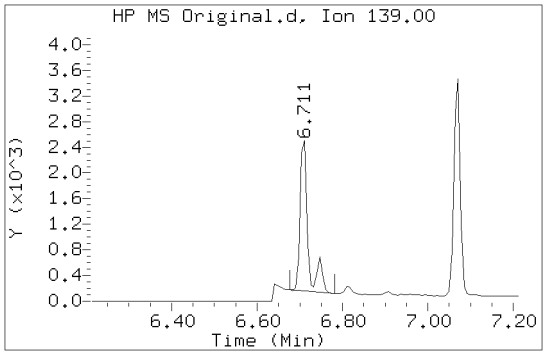
AFTER

MASS
168
AREA
54352
HEIGHT
54390
18-Dec-2023
10:16
linh
pham



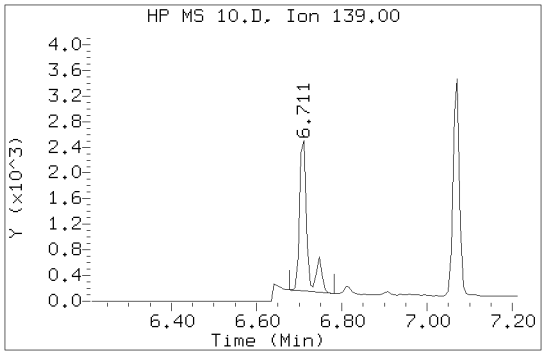
BEFORE

MASS
139
AREA
2985
HEIGHT
2340
18-Dec-2023
10:16
linh
pham



AFTER

MASS
139
AREA
2985
HEIGHT
2340
18-Dec-2023
10:16
linh
pham

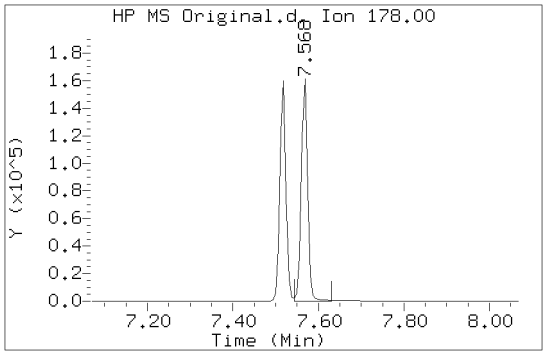


Anthracene (120-12-7)

Reason Code:

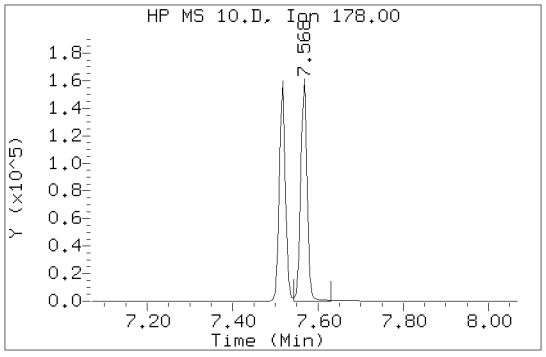
BEFORE

MASS
178
AREA
161208
HEIGHT
161236
18-Dec-2023
10:16
linh
pham



AFTER

MASS
178
AREA
161208
HEIGHT
161236
18-Dec-2023
10:16
linh
pham



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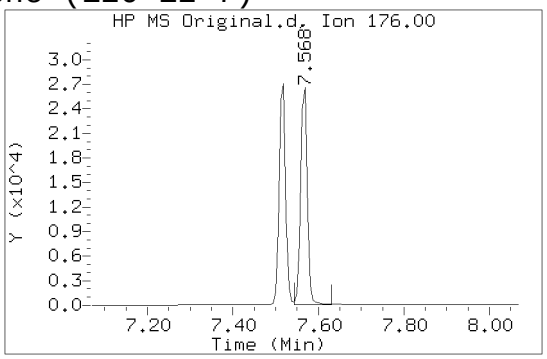
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Anthracene (120-12-7)

Reason Code:

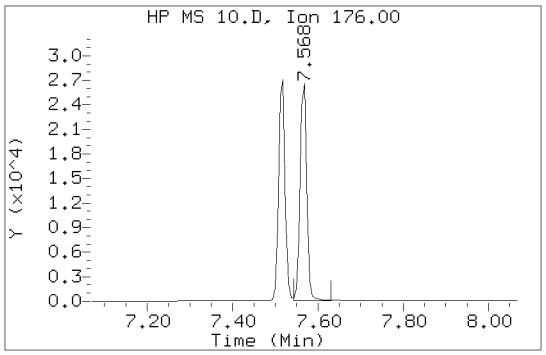
BEFORE

MASS
176
AREA
27911
HEIGHT
26558
18-Dec-2023
10:16
linh
pham



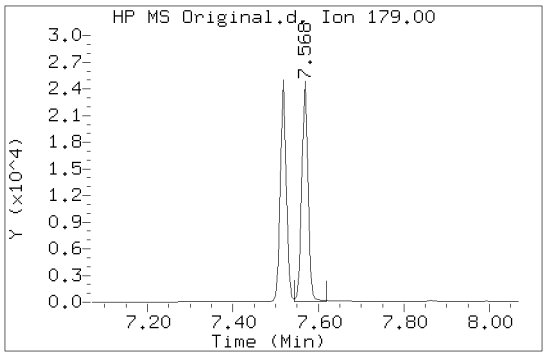
AFTER

MASS
176
AREA
27911
HEIGHT
26558
18-Dec-2023
10:16
linh
pham



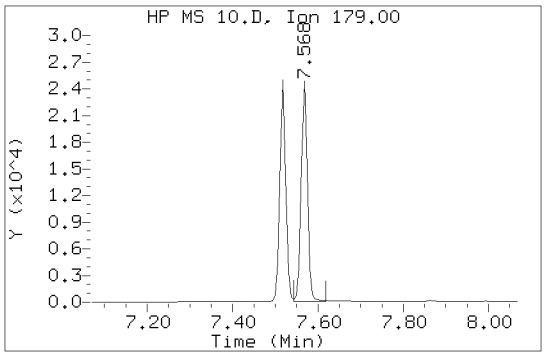
BEFORE

MASS
179
AREA
24507
HEIGHT
24781
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
24507
HEIGHT
24781
18-Dec-2023
10:16
linh
pham

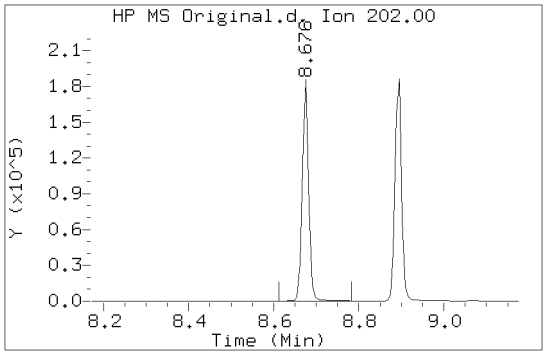


Fluoranthene (206-44-0)

Reason Code:

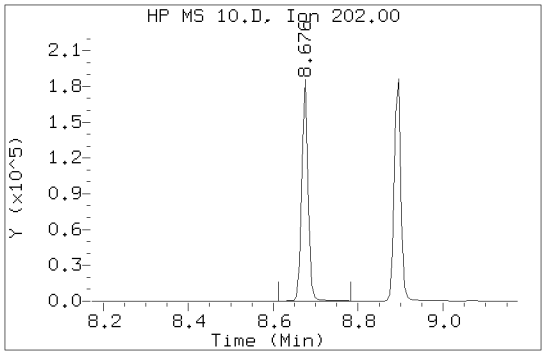
BEFORE

MASS
202
AREA
192859
HEIGHT
185917
18-Dec-2023
10:16
linh
pham



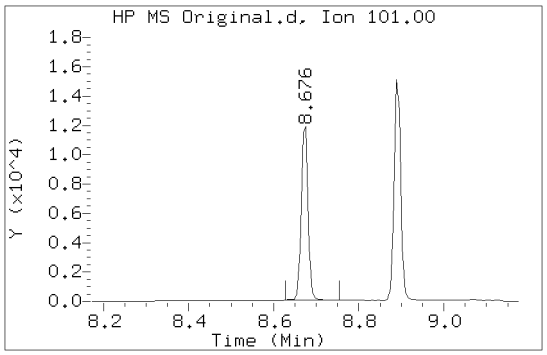
AFTER

MASS
202
AREA
192859
HEIGHT
185917
18-Dec-2023
10:16
linh
pham



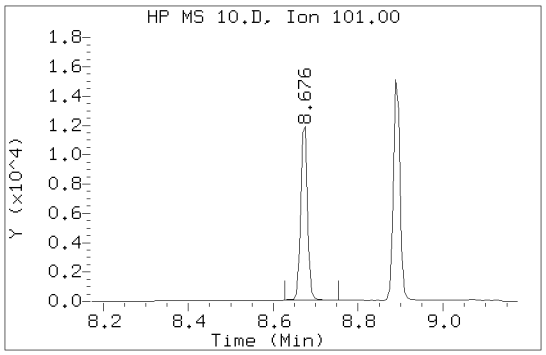
BEFORE

MASS
101
AREA
13501
HEIGHT
11853
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
13501
HEIGHT
11853
18-Dec-2023
10:16
linh
pham



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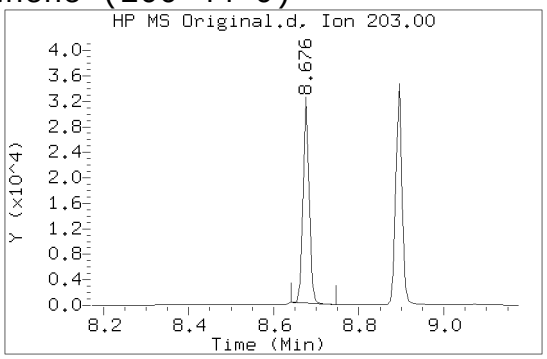
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Fluoranthene (206-44-0)

Reason Code:

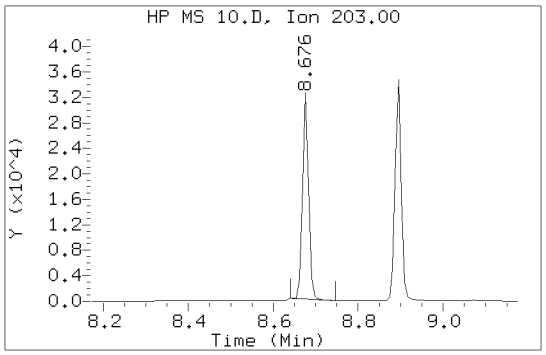
BEFORE

MASS
203
AREA
31574
HEIGHT
32325
18-Dec-2023
10:16
linh
pham



AFTER

MASS
203
AREA
31574
HEIGHT
32325
18-Dec-2023
10:16
linh
pham

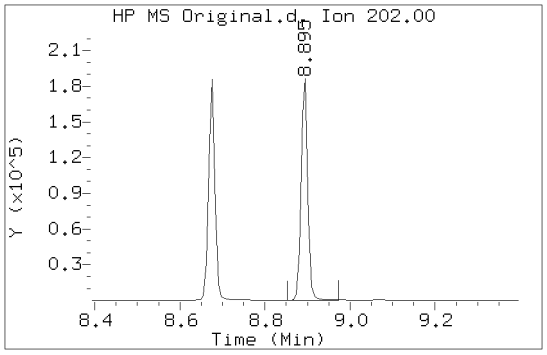


Pyrene (129-00-0)

Reason Code:

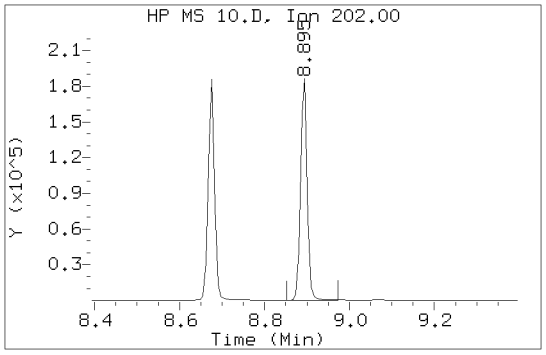
BEFORE

MASS
202
AREA
202802
HEIGHT
186212
18-Dec-2023
10:16
linh
pham



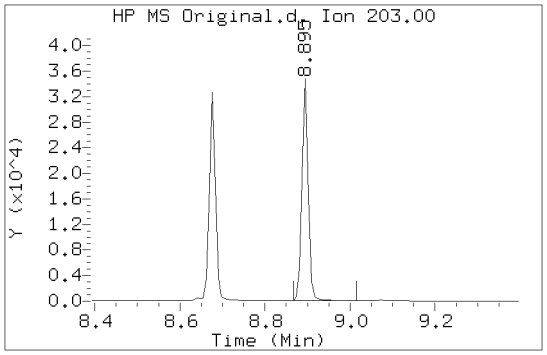
AFTER

MASS
202
AREA
202802
HEIGHT
186212
18-Dec-2023
10:16
linh
pham



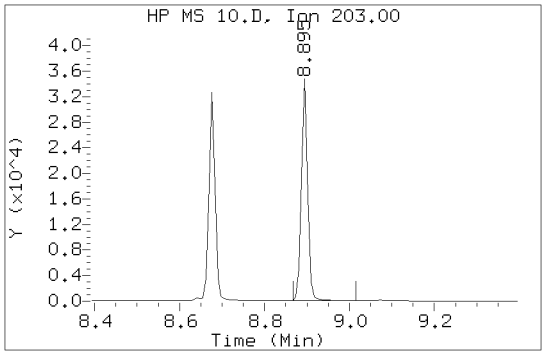
BEFORE

MASS
203
AREA
35356
HEIGHT
34661
18-Dec-2023
10:16
linh
pham



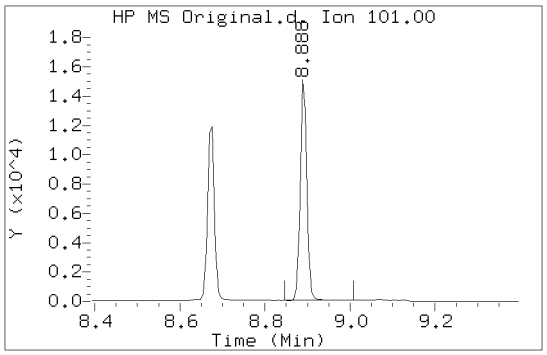
AFTER

MASS
203
AREA
35356
HEIGHT
34661
18-Dec-2023
10:16
linh
pham



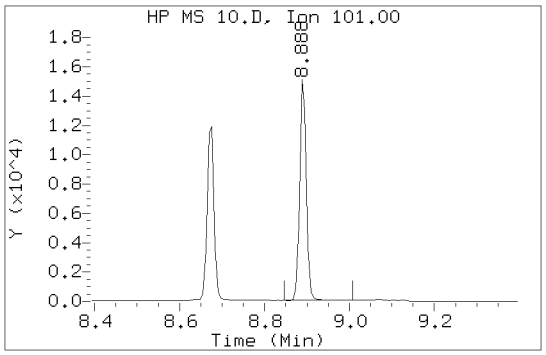
BEFORE

MASS
101
AREA
16385
HEIGHT
15050
18-Dec-2023
10:16
linh
pham



AFTER

MASS
101
AREA
16385
HEIGHT
15050
18-Dec-2023
10:16
linh
pham



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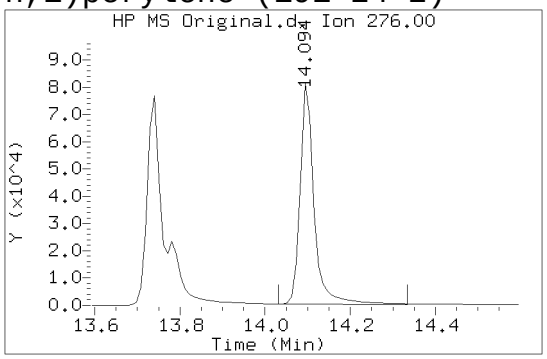
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

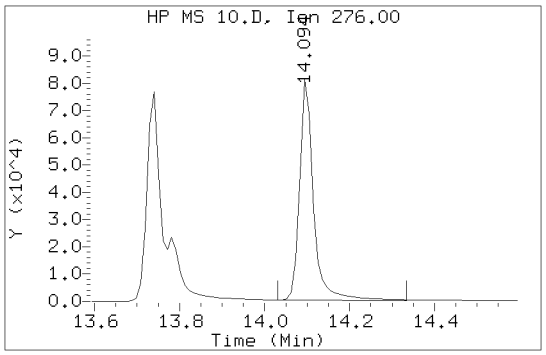
Benzo(g,h,i)perylene (191-24-2)

Reason Code:

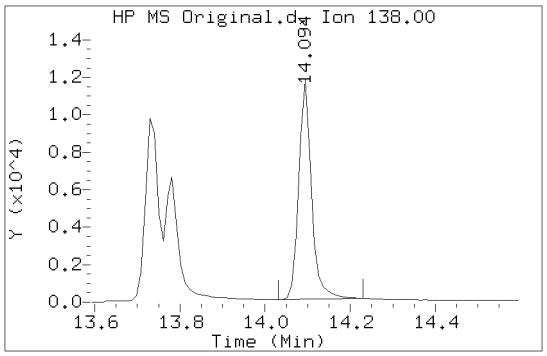
BEFORE
MASS
276
AREA
183621
HEIGHT
80859
18-Dec-2023
10:16
linh
pham



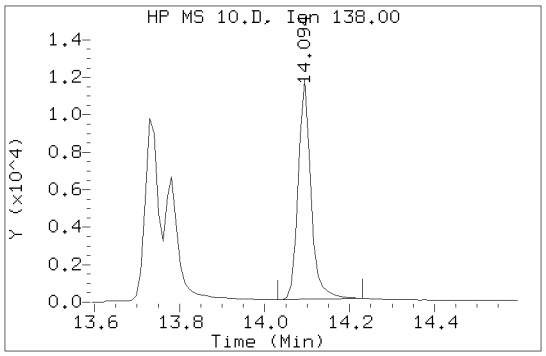
AFTER
MASS
276
AREA
183621
HEIGHT
80859
18-Dec-2023
10:16
linh
pham



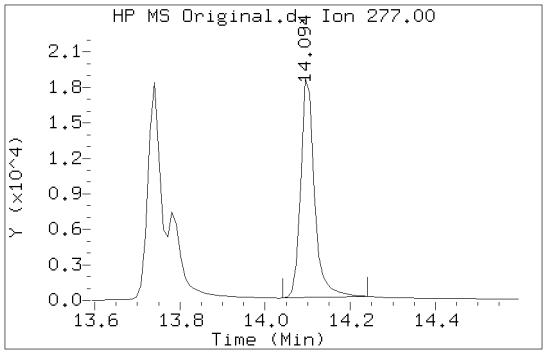
BEFORE
MASS
138
AREA
24272
HEIGHT
11714
18-Dec-2023
10:16
linh
pham



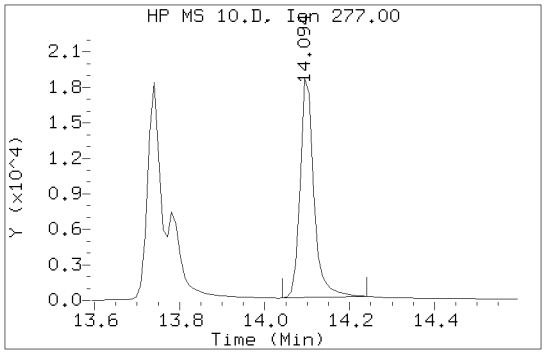
AFTER
MASS
138
AREA
24272
HEIGHT
11714
18-Dec-2023
10:16
linh
pham



BEFORE
MASS
277
AREA
41408
HEIGHT
18507
18-Dec-2023
10:16
linh
pham



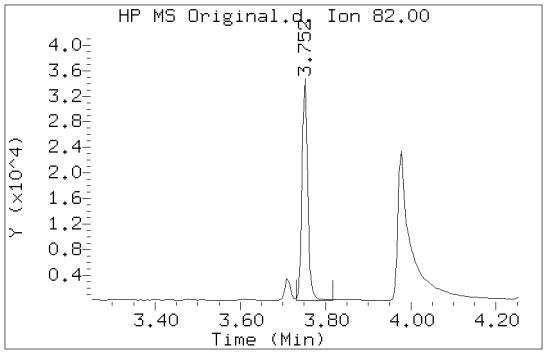
AFTER
MASS
277
AREA
41408
HEIGHT
18507
18-Dec-2023
10:16
linh
pham



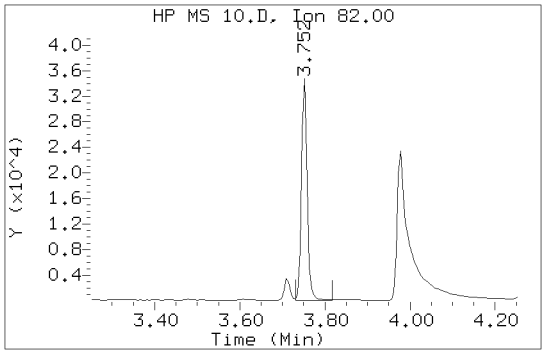
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
31571
HEIGHT
34695
18-Dec-2023
10:16
linh
pham



AFTER
MASS
82
AREA
31571
HEIGHT
34695
18-Dec-2023
10:16
linh
pham



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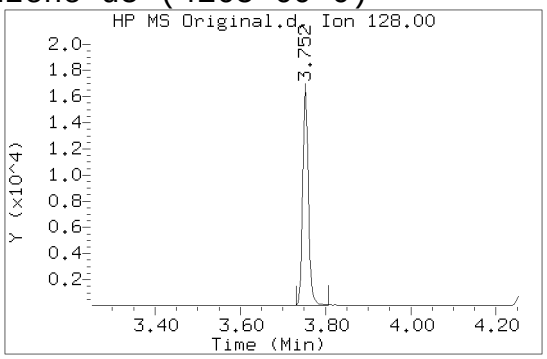
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

Nitrobenzene-d5 (4165-60-0)

Reason Code:

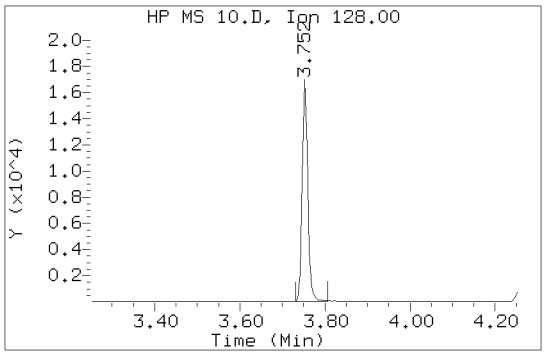
BEFORE

MASS
128
AREA
14964
HEIGHT
16937
18-Dec-2023
10:16
linh
pham



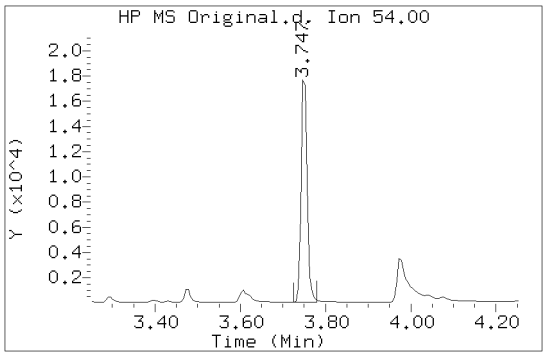
AFTER

MASS
128
AREA
14964
HEIGHT
16937
18-Dec-2023
10:16
linh
pham



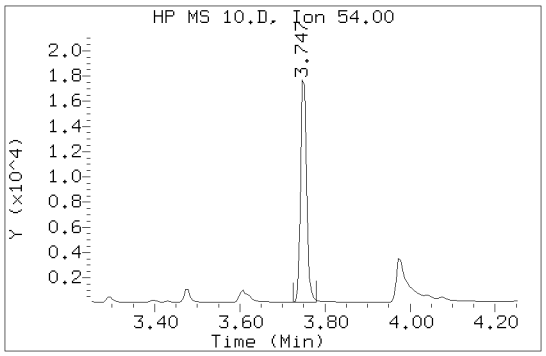
BEFORE

MASS
54
AREA
17244
HEIGHT
17626
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
17244
HEIGHT
17626
18-Dec-2023
10:16
linh
pham

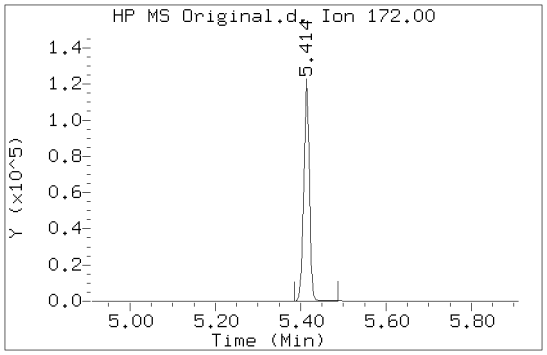


2-Fluorobiphenyl (321-60-8)

Reason Code:

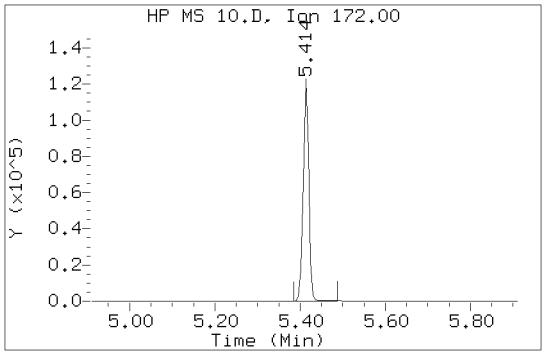
BEFORE

MASS
172
AREA
110011
HEIGHT
122858
18-Dec-2023
10:16
linh
pham



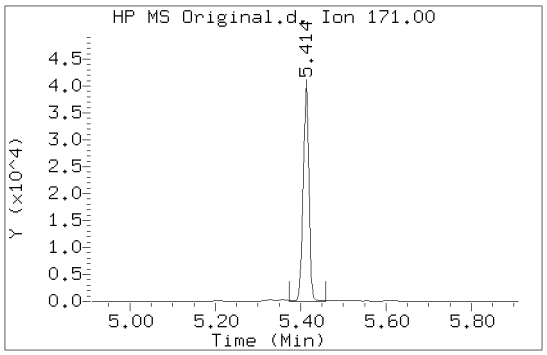
AFTER

MASS
172
AREA
110011
HEIGHT
122858
18-Dec-2023
10:16
linh
pham



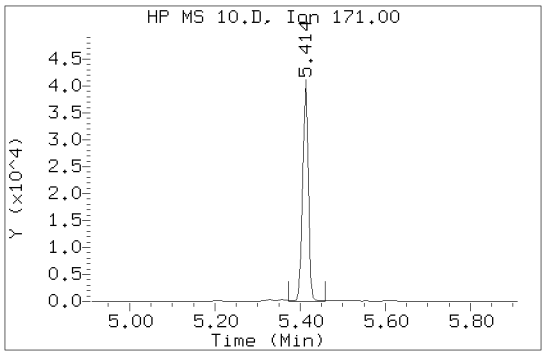
BEFORE

MASS
171
AREA
37375
HEIGHT
41160
18-Dec-2023
10:16
linh
pham



AFTER

MASS
171
AREA
37375
HEIGHT
41160
18-Dec-2023
10:16
linh
pham



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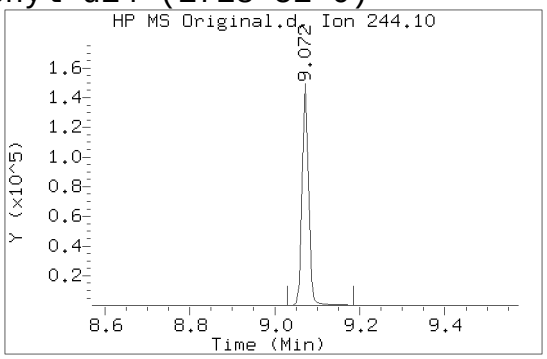
Inj Date : 12-DEC-2023 15:59
InstruID : SV6.i
LabSampID : PAHSIM-0.50

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

Reason Code:

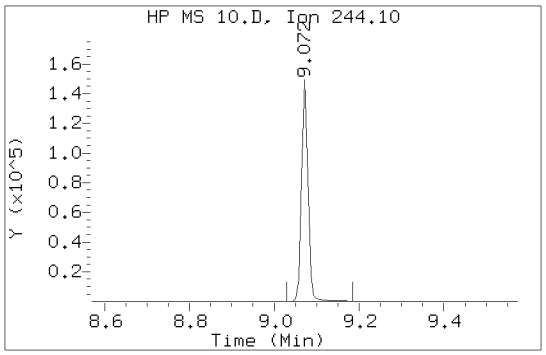
BEFORE

MASS
244.1
AREA
140743
HEIGHT
149344
18-Dec-2023
10:16
linh
pham



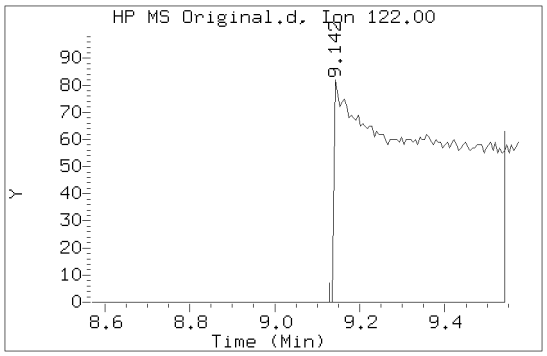
AFTER

MASS
244.1
AREA
140743
HEIGHT
149344
18-Dec-2023
10:16
linh
pham



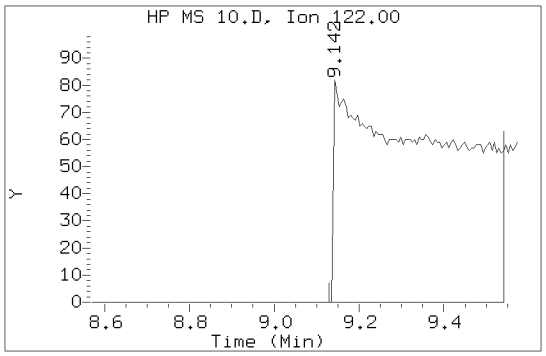
BEFORE

MASS
122
AREA
1493
HEIGHT
82
18-Dec-2023
10:16
linh
pham



AFTER

MASS
122
AREA
1493
HEIGHT
82
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
212
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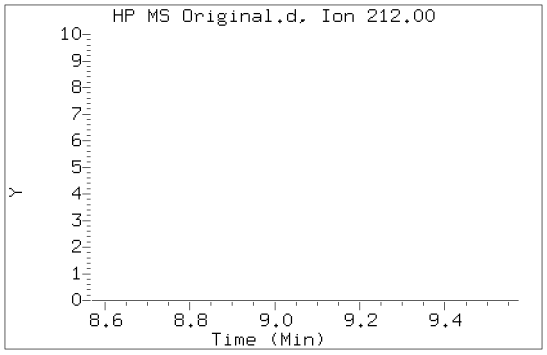
HEIGHT
0
18-Dec-2023
10:16
linh
pham



AFTER

MASS
212
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HEIGHT
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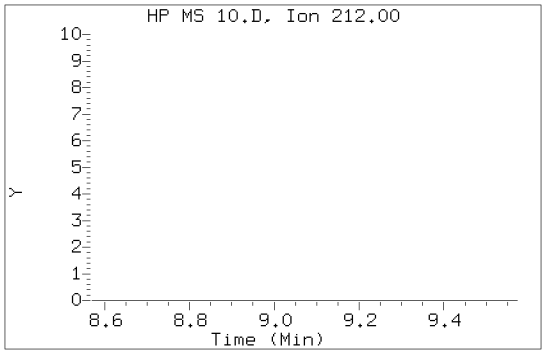
18-Dec-2023
10:16
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D Page 1
Report Date: 18-Dec-2023 10:17

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Lab Smp Id: PAHSIM ICV-0.08 Client Smp ID: PAHSIM ICV-0.08
Inj Date : 12-DEC-2023 16:19
Operator : LG Inst ID: SV6.i
Smp Info : PAHSIM ICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\231212.b\PAHSIM1.m
Meth Date : 18-Dec-2023 10:17 SV6.i Quant Type: ISTD
Cal Date : 12-DEC-2023 15:59 Cal File: 10.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpahdbf.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	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 45 Naphthalene-d8	136	4.391	4.391	(1.000)	25175	0.10000	(M)
$ 33 Nitrobenzene-d5	82	3.752	3.752	(0.854)	5427	0.07818	0.07818(M)
* 86 Acenaphthene-d10	164	6.056	6.058	(1.000)	15648	0.10000	
$ 69 2-Fluorobiphenyl	172	5.419	5.413	(0.895)	19304	0.07747	0.07747
* 126 Phenanthrene-d10	188	7.498	7.493	(1.000)	32385	0.10000	
* 182 Chrysene-d12	240	10.243	10.237	(1.000)	29147	0.10000	(M)
$ 158 4-Terphenyl-d14	244	9.077	9.071	(0.908)	21376	0.07222	0.07222
* 198 Perylene-d12	264	12.218	12.220	(1.000)	29848	0.10000	
46 Naphthalene	128	4.407	4.407	(1.031)	22249	0.08055	0.08055
61 2-Methylnaphthalene	142	5.059	5.053	(1.184)	14713	0.07965	0.07965
62 1-Methylnaphthalene	142	5.150	5.150	(1.205)	13635	0.07911	0.07911
83 Acenaphthylene	152	5.915	5.910	(0.977)	22110	0.07727	0.07727
88 Acenaphthene	154	6.086	6.080	(1.005)	14152	0.07845	0.07844
98 Fluorene	166	6.588	6.583	(1.088)	17084	0.07703	0.07703
92 Dibenzofuran	168	6.716	6.711	(1.109)	9112	0.07791	0.07790
128 Phenanthrene	178	7.523	7.518	(1.003)	27676	0.07808	0.07808
130 Anthracene	178	7.572	7.568	(1.010)	27519	0.07791	0.07791(M)
149 Fluoranthene	202	8.674	8.676	(1.157)	32128	0.07620	0.07620
155 Pyrene	202	8.893	8.895	(0.890)	34127	0.08053	0.08053

181 Benzo(a)Anthracene	228	10.228	10.222 (0.999)	31817	0.08050	0.08050(M)
183 Chrysene	228	10.272	10.267 (1.003)	36118	0.08199	0.08199(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	CONCENTRATIONS FINAL (ug/L)
192 Benzo(b)fluoranthene	252	11.675	11.670	(0.956)	29596	0.07988	0.07988
195 Benzo(k)fluoranthene	252	11.712	11.714	(0.959)	34804	0.07763	0.07763
197 Benzo(a)pyrene	252	12.137	12.132	(0.993)	27244	0.07587	0.07587(M)
209 Indeno(1,2,3-cd)pyrene	276	13.738	13.739	(1.124)	30452	0.07086	0.07086
210 Dibenzo(a,h)anthracene	278	13.790	13.791	(1.129)	25333	0.07098	0.07098(M)
212 Benzo(g,h,i)perylene	276	14.102	14.094	(1.154)	27319	0.07118	0.07118(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D

Date : 12-DEC-2023 16:19

Client ID: PAHSIM ICV-0.08

Instrument: SV6.i

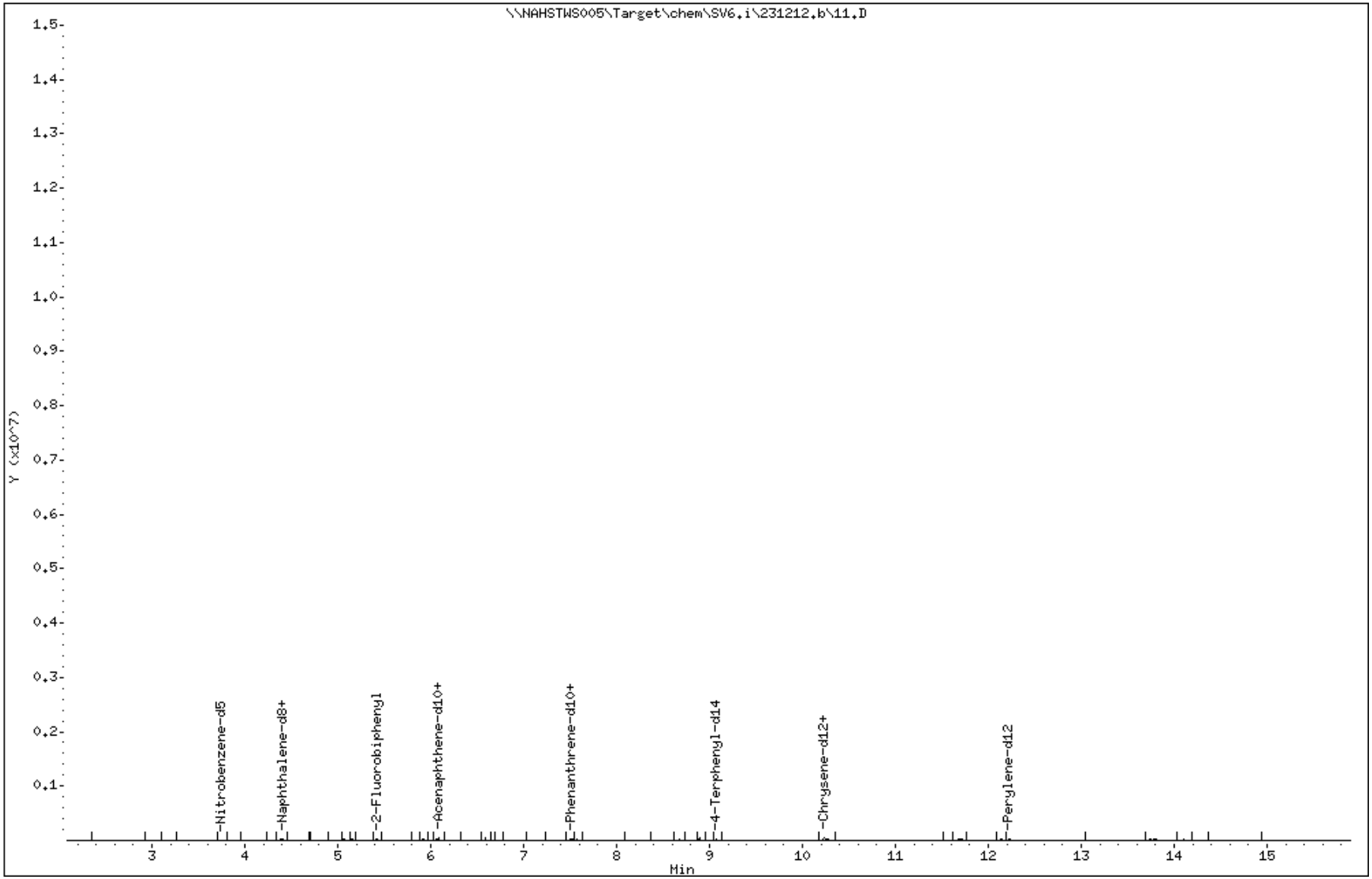
Sample Info: PAHSIM ICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



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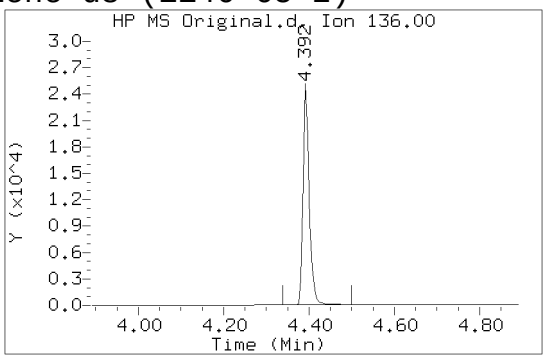
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE

MASS
136
AREA
25175
HEIGHT
25116
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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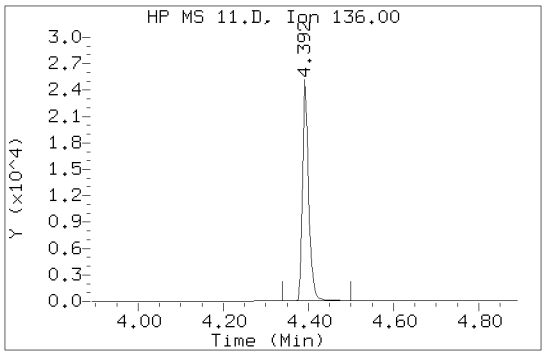
AREA
25175
HEIGHT
25116
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
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AREA
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HEIGHT
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18-Dec-2023
10:16
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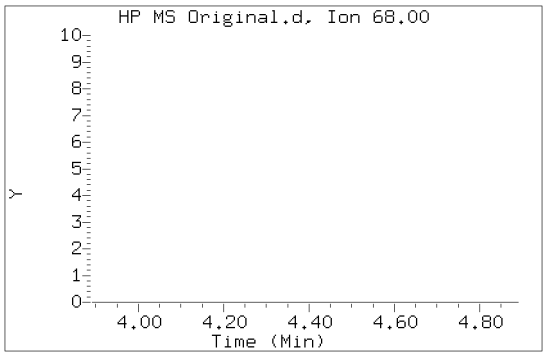

AFTER

MASS
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AREA
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HEIGHT
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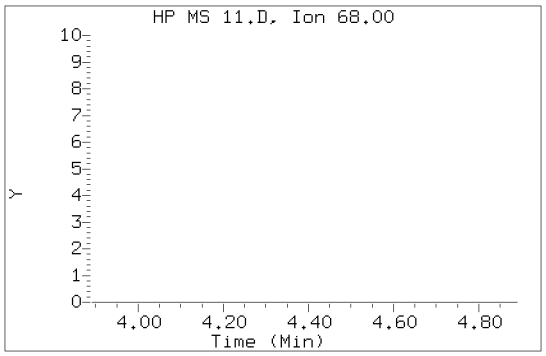
18-Dec-2023
10:16
linh
pham



Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

BEFORE

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AREA
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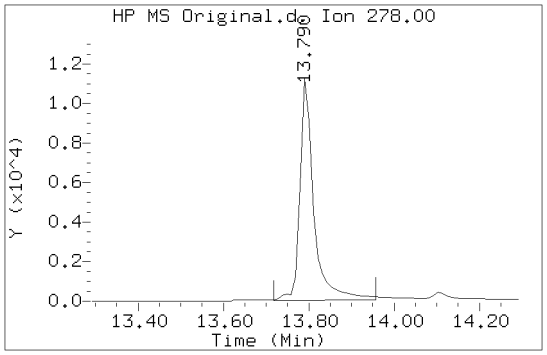
HEIGHT
11194
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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HEIGHT
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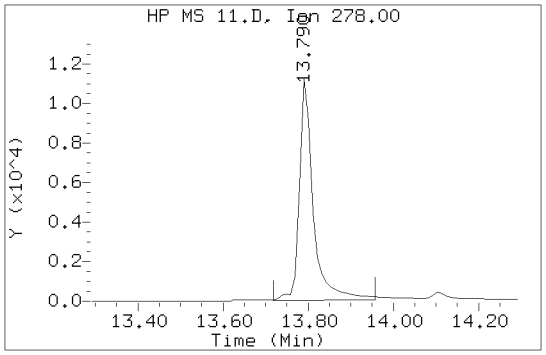
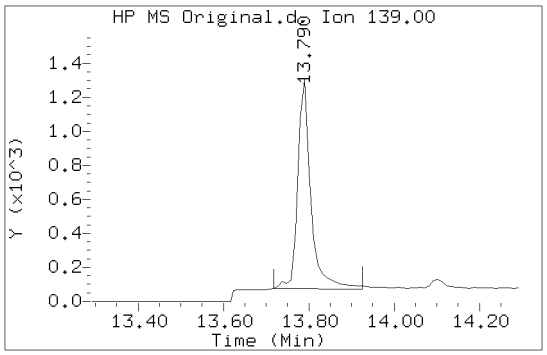
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
139
AREA
2624
HEIGHT
1229
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
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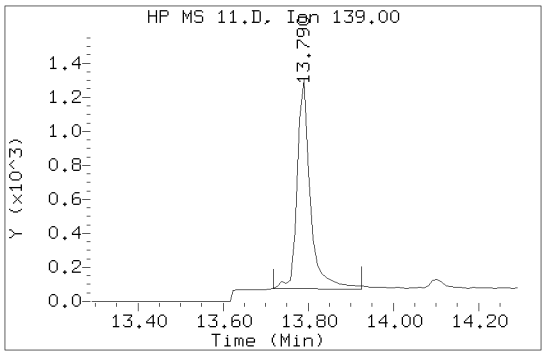
HEIGHT
1229
18-Dec-2023
10:16
linh
pham



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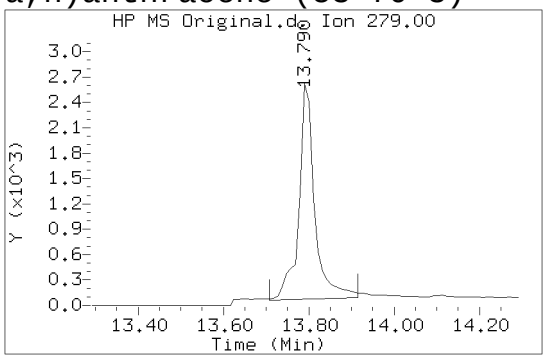
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Dibenzo(a,h)anthracene (53-70-3)

Reason Code:

BEFORE

MASS
279
AREA
6544
HEIGHT
2548
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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HEIGHT
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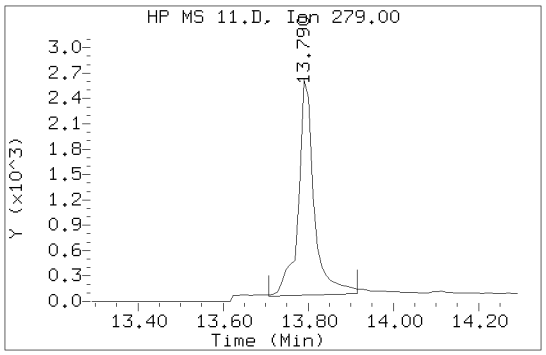
18-Dec-2023
10:16
linh
pham



Benzo(a)pyrene (50-32-8)

Reason Code:

BEFORE

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AREA
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18-Dec-2023
10:16
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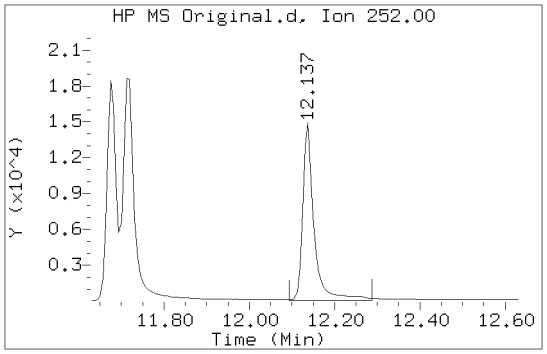

AFTER

MASS
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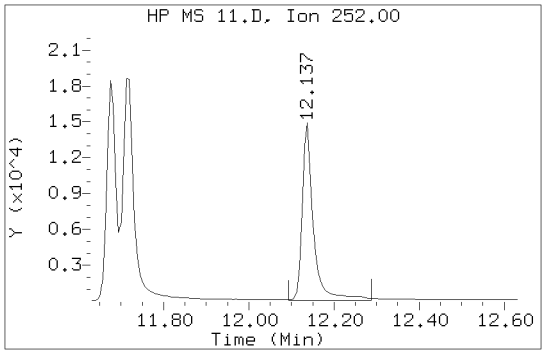

BEFORE

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AREA
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HEIGHT
3204
18-Dec-2023
10:16
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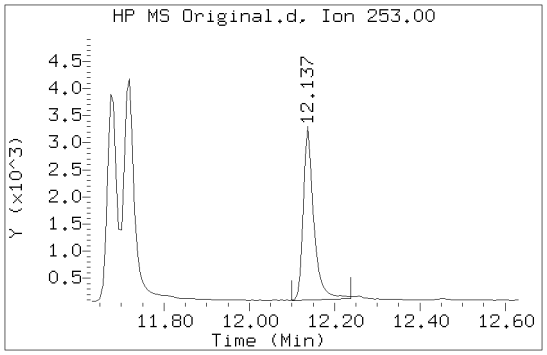
pham



AFTER

MASS
253
AREA
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HEIGHT
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18-Dec-2023
10:16
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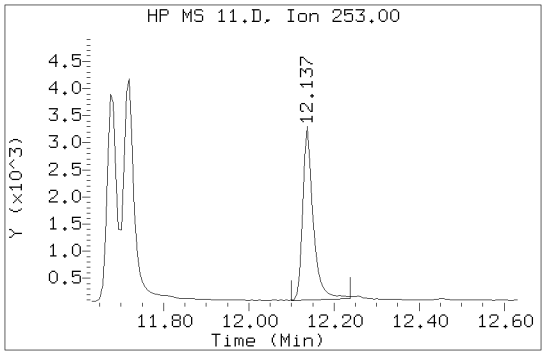
pham



BEFORE

MASS
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AREA
1933
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1075
18-Dec-2023
10:16
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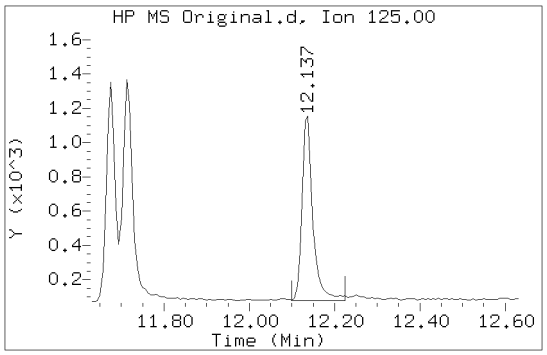
pham



AFTER

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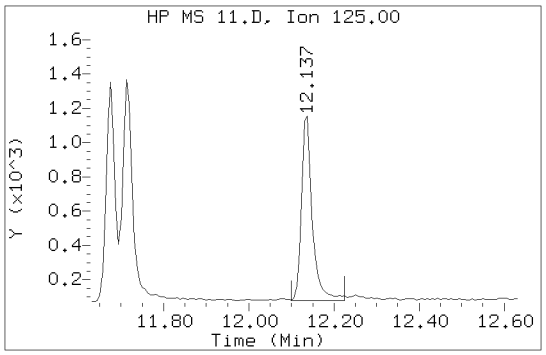
18-Dec-2023
10:16
linh
pham



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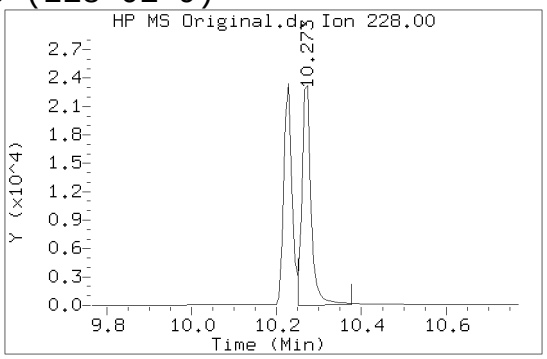
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Chrysene (218-01-9)

Reason Code:

BEFORE

MASS
228
AREA
36118
HEIGHT
23168
18-Dec-2023
10:16
linh
pham



AFTER

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18-Dec-2023
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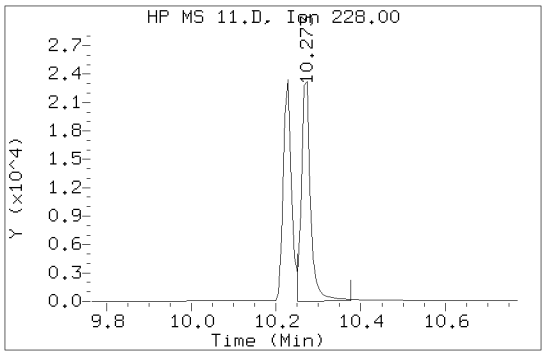

BEFORE

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18-Dec-2023
10:16
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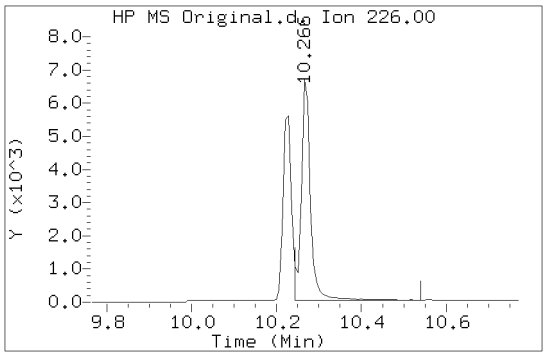

AFTER

MASS
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18-Dec-2023
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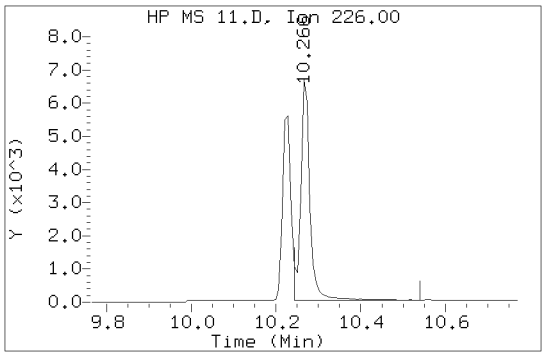
pham



BEFORE

MASS
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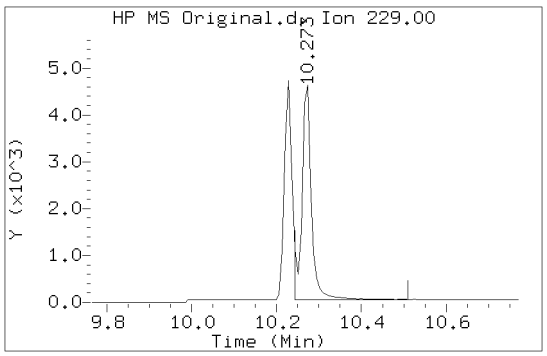
AREA
7513
HEIGHT
4584
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
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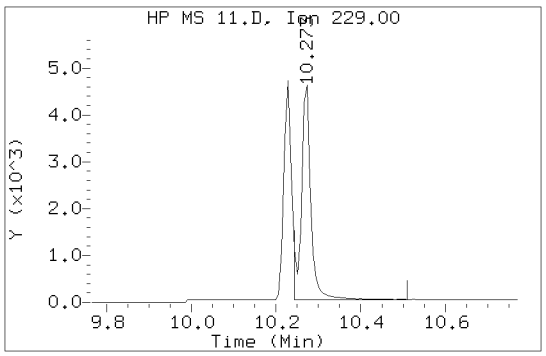
HEIGHT
4584
18-Dec-2023
10:16
linh
pham



Benzo(a)Anthracene (56-55-3)

Reason Code:

BEFORE

MASS
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AREA
31817
HEIGHT
23478
18-Dec-2023
10:16
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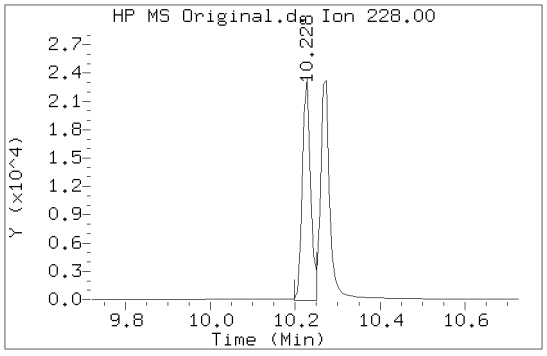
pham



AFTER

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18-Dec-2023
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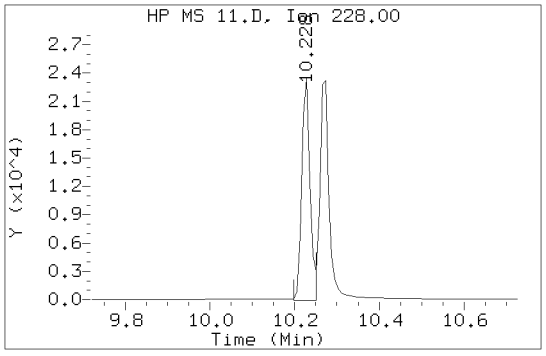
pham



Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Benzo(a)Anthracene (56-55-3)

Reason Code:

BEFORE

MASS
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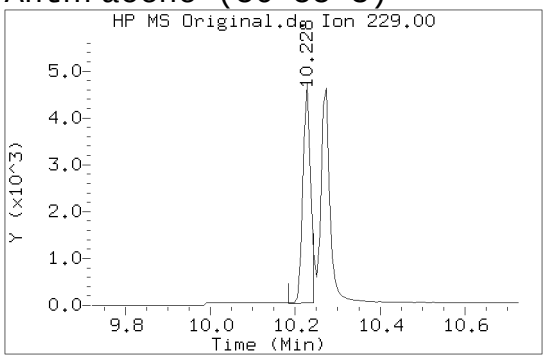
AREA
5825
HEIGHT
4680
18-Dec-2023
10:16
linh
pham



AFTER

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18-Dec-2023
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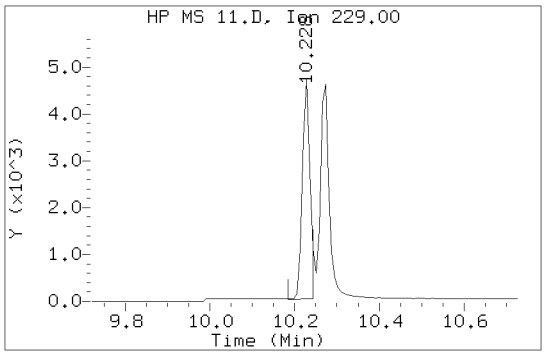
pham



BEFORE

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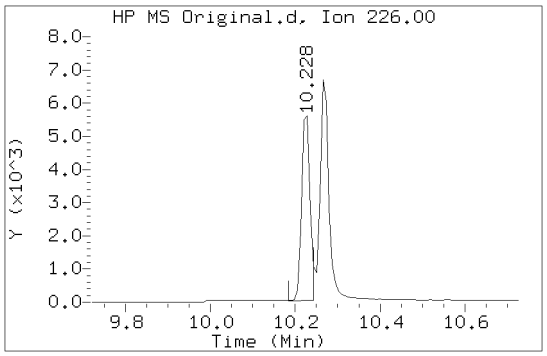
7676
HEIGHT
5565
18-Dec-2023
10:16
linh
pham



AFTER

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AREA
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18-Dec-2023
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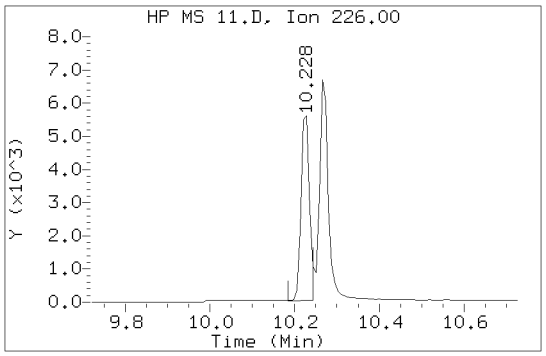
pham



Anthracene (120-12-7)

Reason Code:

BEFORE

MASS
178
AREA
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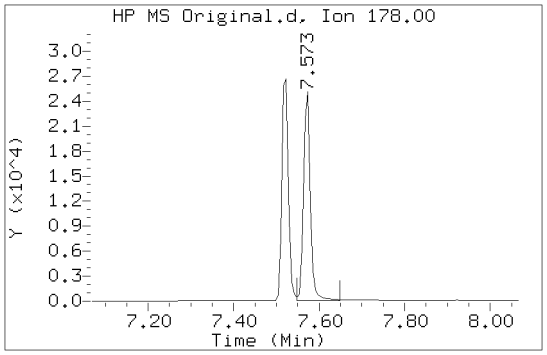
HEIGHT
25045
18-Dec-2023
10:16
linh
pham



AFTER

MASS
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AREA
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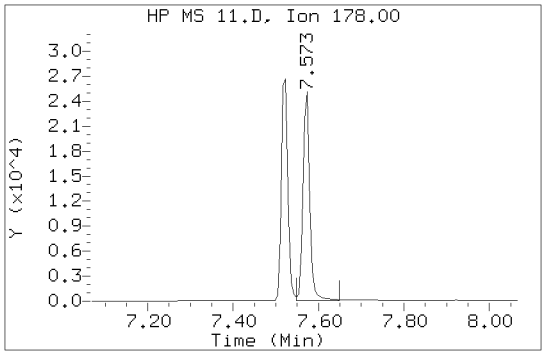
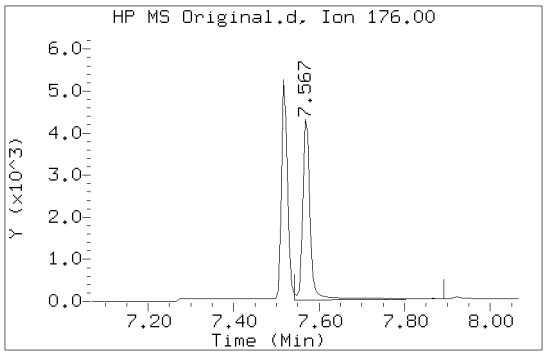
HEIGHT
25045
18-Dec-2023
10:16
linh
pham



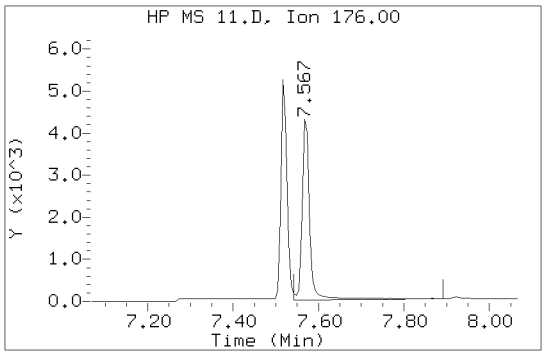
BEFORE

MASS
176
AREA
5290
HEIGHT
4301
18-Dec-2023
10:16
linh
pham



AFTER

MASS
176
AREA
5290
HEIGHT
4301
18-Dec-2023
10:16
linh
pham



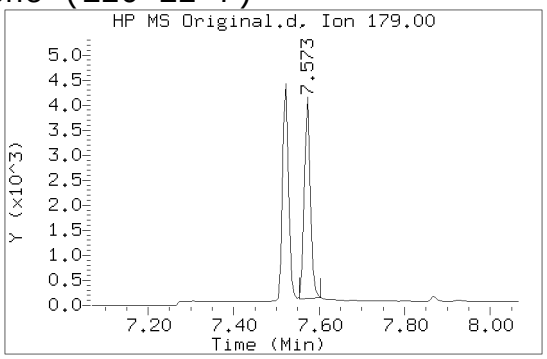
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Anthracene (120-12-7)

Reason Code:

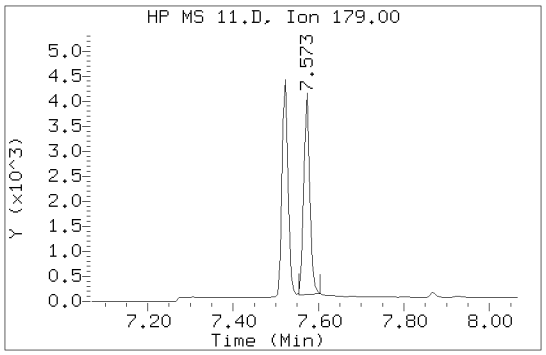
BEFORE

MASS
179
AREA
3902
HEIGHT
4017
18-Dec-2023
10:16
linh
pham



AFTER

MASS
179
AREA
3902
HEIGHT
4017
18-Dec-2023
10:16
linh
pham

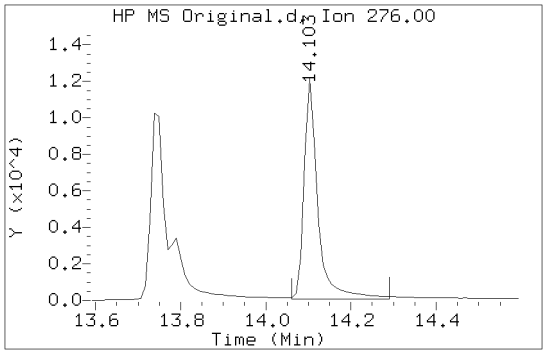


Benzo(g,h,i)perylene (191-24-2)

Reason Code:

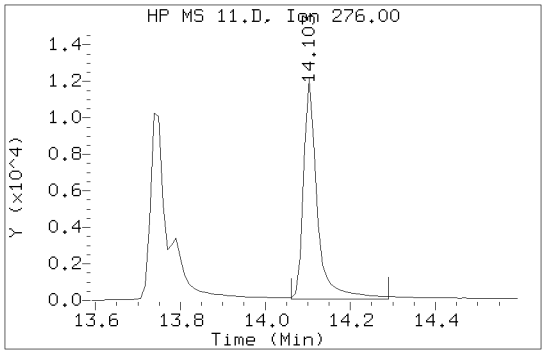
BEFORE

MASS
276
AREA
27319
HEIGHT
12091
18-Dec-2023
10:16
linh
pham



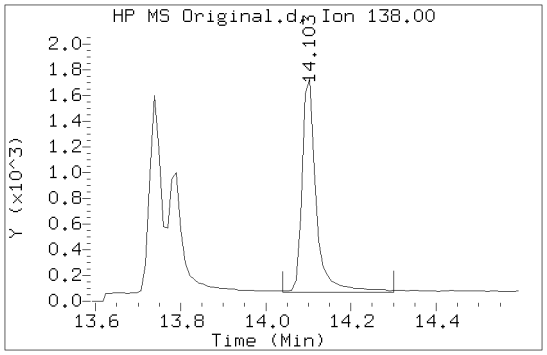
AFTER

MASS
276
AREA
27319
HEIGHT
12091
18-Dec-2023
10:16
linh
pham



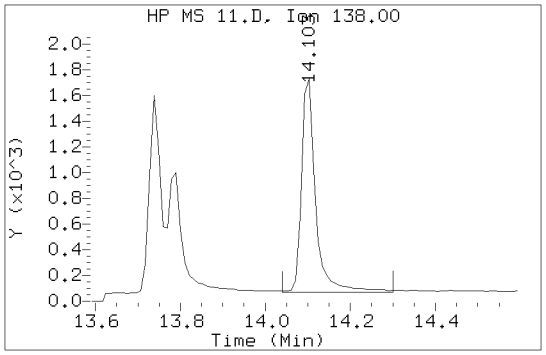
BEFORE

MASS
138
AREA
3826
HEIGHT
1659
18-Dec-2023
10:16
linh
pham



AFTER

MASS
138
AREA
3826
HEIGHT
1659
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
277
AREA
6650
HEIGHT
2837
18-Dec-2023
10:16
linh
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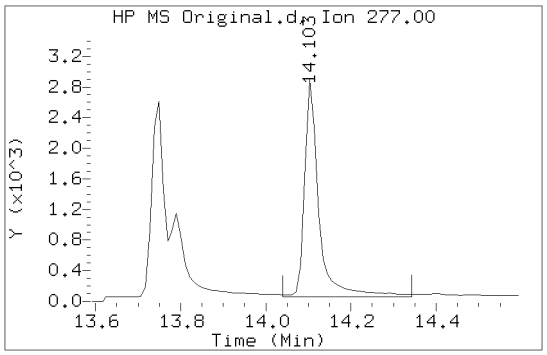
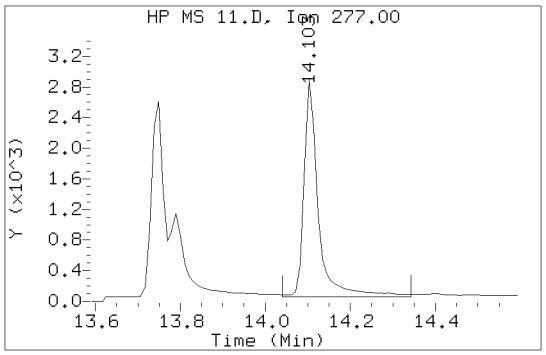


AFTER

MASS
277
AREA
6650
HEIGHT
2837
18-Dec-2023
10:16
linh
pham



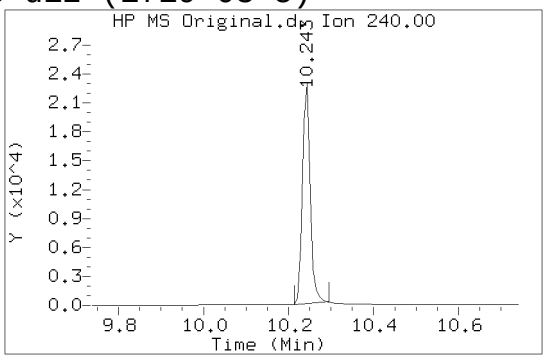
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

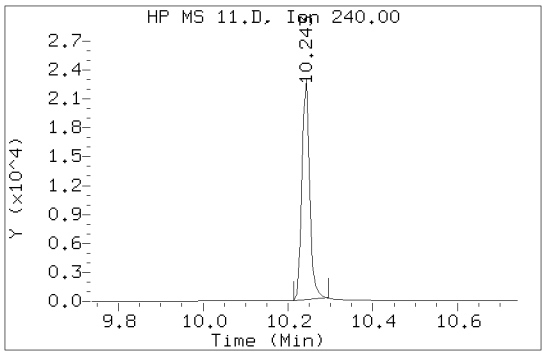
BEFORE

MASS
240
AREA
29147
HEIGHT
22805
18-Dec-2023
10:16
linh
pham



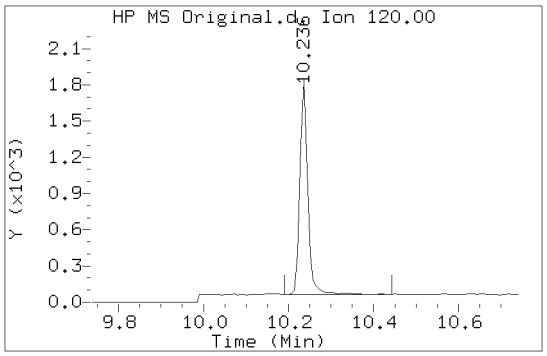
AFTER

MASS
240
AREA
29147
HEIGHT
22805
18-Dec-2023
10:16
linh
pham



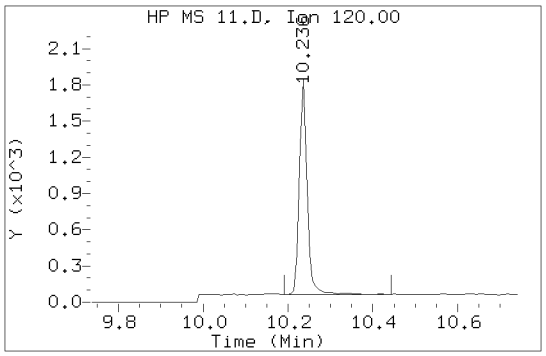
BEFORE

MASS
120
AREA
2266
HEIGHT
1776
18-Dec-2023
10:16
linh
pham



AFTER

MASS
120
AREA
2266
HEIGHT
1776
18-Dec-2023
10:16
linh
pham



BEFORE

MASS
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AREA
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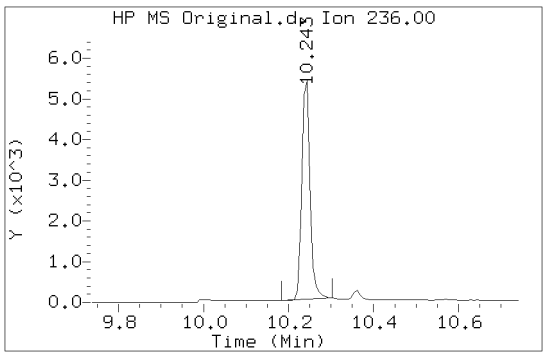
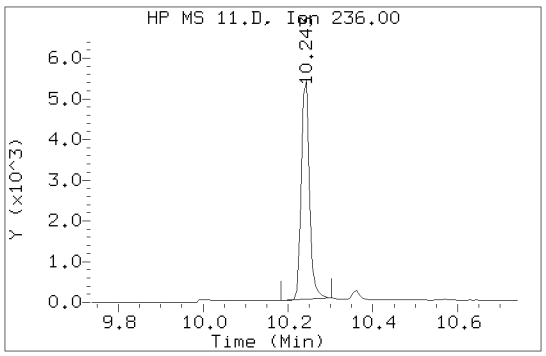
HEIGHT
5367
18-Dec-2023
10:16
linh
pham



AFTER

MASS
236
AREA
7241
HEIGHT
5367
18-Dec-2023
10:16
linh
pham

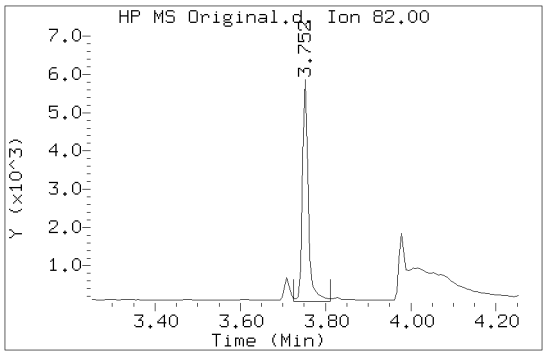


Nitrobenzene-d5 (4165-60-0)

Reason Code:

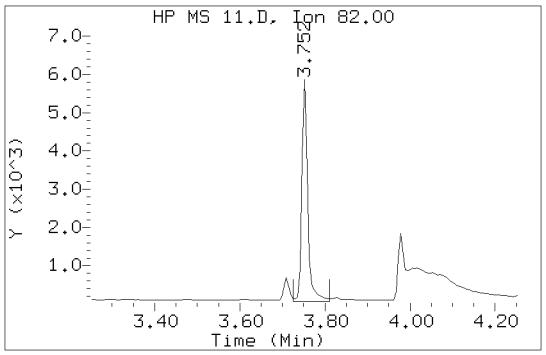
BEFORE

MASS
82
AREA
5427
HEIGHT
5787
18-Dec-2023
10:16
linh
pham



AFTER

MASS
82
AREA
5427
HEIGHT
5787
18-Dec-2023
10:16
linh
pham



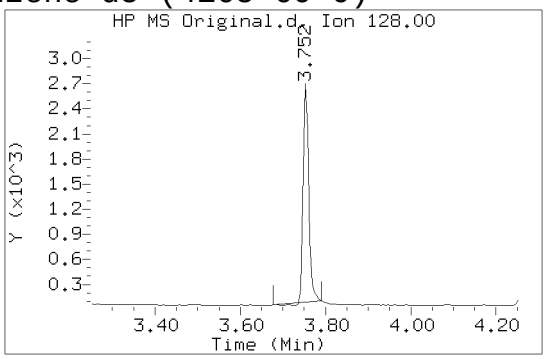
Data File : \\NAHSTWS005\Target\chem\SV6.i\231212.b\11.D
Inj Date : 12-DEC-2023 16:19
InstruID : SV6.i
LabSampID : PAHSIM ICV-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

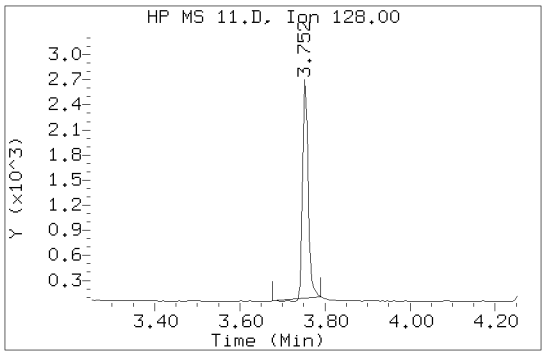
BEFORE

MASS
128
AREA
2264
HEIGHT
2610
18-Dec-2023
10:16
linh
pham



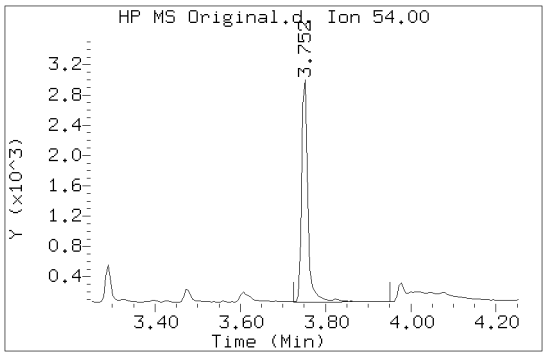
AFTER

MASS
128
AREA
2264
HEIGHT
2610
18-Dec-2023
10:16
linh
pham



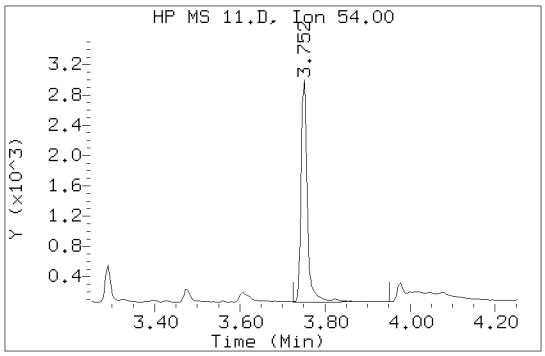
BEFORE

MASS
54
AREA
2942
HEIGHT
2928
18-Dec-2023
10:16
linh
pham



AFTER

MASS
54
AREA
2942
HEIGHT
2928
18-Dec-2023
10:16
linh
pham



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D Page 1
Report Date: 18-Apr-2024 11:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\01.D
Lab Smp Id: DFTPP Client Smp ID: DFTPP
Inj Date : 18-APR-2024 10:39
Operator : smith Inst ID: SV6.i
Smp Info : DFTPP;DFTPP;3;;DFTPP
Misc Info :
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DFTPP.m
Meth Date : 14-Mar-2023 15:58 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		
4.170	5.571	-1.401	198	262912			0.00- 100.00	71.46
4.170	6.357	-2.187	51	62088			10.00- 80.00	23.62
4.170	6.357	-2.187	68	1330			0.00- 2.00	1.76
4.170	6.357	-2.187	69	75608			0.00- 0.00	28.76
4.170	6.357	-2.187	70	408			0.00- 2.00	0.54
4.170	6.357	-2.187	127	104440			10.00- 80.00	39.72
4.170	6.357	-2.187	197	996			0.00- 2.00	0.38
4.170	6.357	-2.187	199	17632			5.00- 9.00	6.71
4.170	6.357	-2.187	275	79880			10.00- 60.00	30.38
4.170	6.357	-2.187	365	10437			1.00- 100.00	3.97
4.170	6.357	-2.187	441	53968			0.01- 99.99	74.32
4.170	6.357	-2.187	442	367904			50.00- 150.00	139.93
4.170	6.357	-2.187	443	72612			15.00- 24.00	19.74

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	23.62
68	Less than 2.00% of mass 69	0.51 (1.76)
69	Mass 69 relative abundance	28.76
70	Less than 2.00% of mass 69	0.16 (0.54)
127	10.00 - 80.00% of mass 198	39.72
197	Less than 2.00% of mass 198	0.38
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 60.00% of mass 198	30.38
365	1.00 - 100.00% of mass 198	3.97
441	Present, but less than mass 443	20.53
442	50.00 - 150.00% of mass 198	139.93
443	15.00 - 24.00% of mass 442	27.62 (19.74)

Data File: 01.D
Spectrum: Average Spectrum: 4.165 to 4.170 min. (SUB)
Location of Maximum: 442.00
Number of points: 308

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	244	129.00	40624	208.00	2115	300.00	77
38.00	784	130.00	3575	209.00	787	301.00	225
39.00	4091	131.00	702	210.00	691	302.00	396
40.00	241	132.00	334	211.00	2619	303.00	2580
41.00	102	133.00	85	212.00	316	304.00	619
45.00	185	134.00	1114	213.00	196	308.00	261
47.00	77	135.00	3151	215.00	724	309.00	174
49.00	408	136.00	1211	216.00	1479	310.00	240
50.00	16528	137.00	1465	217.00	18280	312.00	105
51.00	62088	138.00	288	218.00	2273	313.00	118
52.00	3211	139.00	258	219.00	275	314.00	1045
53.00	86	140.00	581	221.00	13468	315.00	2330
55.00	354	141.00	5048	223.00	4413	316.00	1380
56.00	2225	142.00	1704	224.00	39488	317.00	214
57.00	4437	143.00	1145	225.00	9861	321.00	708
58.00	213	144.00	319	226.00	1237	322.00	502
59.00	93	145.00	259	227.00	15741	323.00	7637
61.00	820	146.00	847	228.00	2192	324.00	1248
62.00	996	147.00	2610	229.00	3406	325.00	83
63.00	2992	148.00	5531	230.00	654	326.00	213
64.00	404	149.00	1260	231.00	1395	327.00	1339
65.00	1489	150.00	306	232.00	263	328.00	739
66.00	77	151.00	689	233.00	369	329.00	197
68.00	1330	152.00	397	234.00	998	332.00	530
69.00	75608	153.00	1674	235.00	1288	333.00	729
70.00	408	154.00	1331	236.00	713	334.00	5116
73.00	520	155.00	2941	237.00	1314	335.00	1387
74.00	7472	156.00	4519	238.00	197	336.00	81
75.00	12234	157.00	943	239.00	654	339.00	89
76.00	4036	158.00	851	240.00	561	341.00	826
77.00	79680	159.00	842	241.00	1046	342.00	249
78.00	5168	160.00	1695	242.00	2012	346.00	1618
79.00	5702	161.00	2544	243.00	2294	347.00	364
80.00	4359	162.00	776	244.00	32624	351.00	166
81.00	6057	163.00	166	245.00	4479	352.00	2331
82.00	1737	164.00	285	246.00	5704	353.00	1469
83.00	1343	165.00	2024	247.00	1212	354.00	2530
84.00	162	166.00	1773	248.00	329	355.00	561
85.00	1154	167.00	10349	249.00	1270	359.00	260
86.00	1464	168.00	4423	250.00	278	364.00	112
87.00	753	169.00	868	251.00	337	365.00	10437
88.00	337	170.00	367	252.00	432	366.00	1414
89.00	75	171.00	514	253.00	740	367.00	75
91.00	1569	172.00	960	255.00	170688	370.00	233
92.00	1659	173.00	1497	256.00	25096	371.00	588

93.00 10069	174.00 2141	257.00 1983	372.00 4617
94.00 680	175.00 4519	258.00 8939	373.00 1106
95.00 92	176.00 1409	259.00 1582	383.00 1150
96.00 425	177.00 2174	260.00 250	384.00 378
97.00 199	178.00 726	261.00 243	385.00 83
98.00 7421	179.00 8742	264.00 295	390.00 634
99.00 5189	180.00 5928	265.00 3703	391.00 442
100.00 450	181.00 2765	266.00 604	392.00 339
101.00 3694	182.00 411	270.00 214	401.00 178
102.00 194	183.00 299	271.00 344	402.00 1827
103.00 1310	184.00 735	272.00 599	403.00 2559
104.00 2350	185.00 4557	273.00 5441	404.00 850
105.00 2071	186.00 34080	274.00 13783	405.00 78
106.00 852	187.00 9952	275.00 79880	415.00 111
107.00 28048	188.00 866	276.00 10609	421.00 2499
108.00 4375	189.00 2159	277.00 6056	422.00 2422
109.00 546	190.00 335	278.00 997	423.00 17496
110.00 51232	191.00 1054	279.00 109	424.00 3958
111.00 8170	192.00 2816	281.00 100	425.00 349
112.00 914	193.00 3142	282.00 278	435.00 169
113.00 342	194.00 666	283.00 828	436.00 426
116.00 1637	195.00 610	284.00 410	437.00 287
117.00 21584	196.00 8042	285.00 1021	438.00 177
118.00 1450	197.00 996	286.00 242	439.00 927
119.00 133	198.00 262912	289.00 253	441.00 53968
120.00 336	199.00 17632	290.00 222	442.00 367872
121.00 78	200.00 1329	291.00 150	443.00 72608
122.00 1884	201.00 1426	292.00 373	444.00 7175
123.00 3095	203.00 1983	293.00 1312	445.00 468
124.00 1181	204.00 9352	294.00 366	
125.00 1276	205.00 16075	296.00 20920	
127.00 104440	206.00 67752	297.00 2863	
128.00 7946	207.00 8670	298.00 101	

Data File: \\NAHSTWS005\Target\chem\sv6.i\240418.b\01.d Page 1

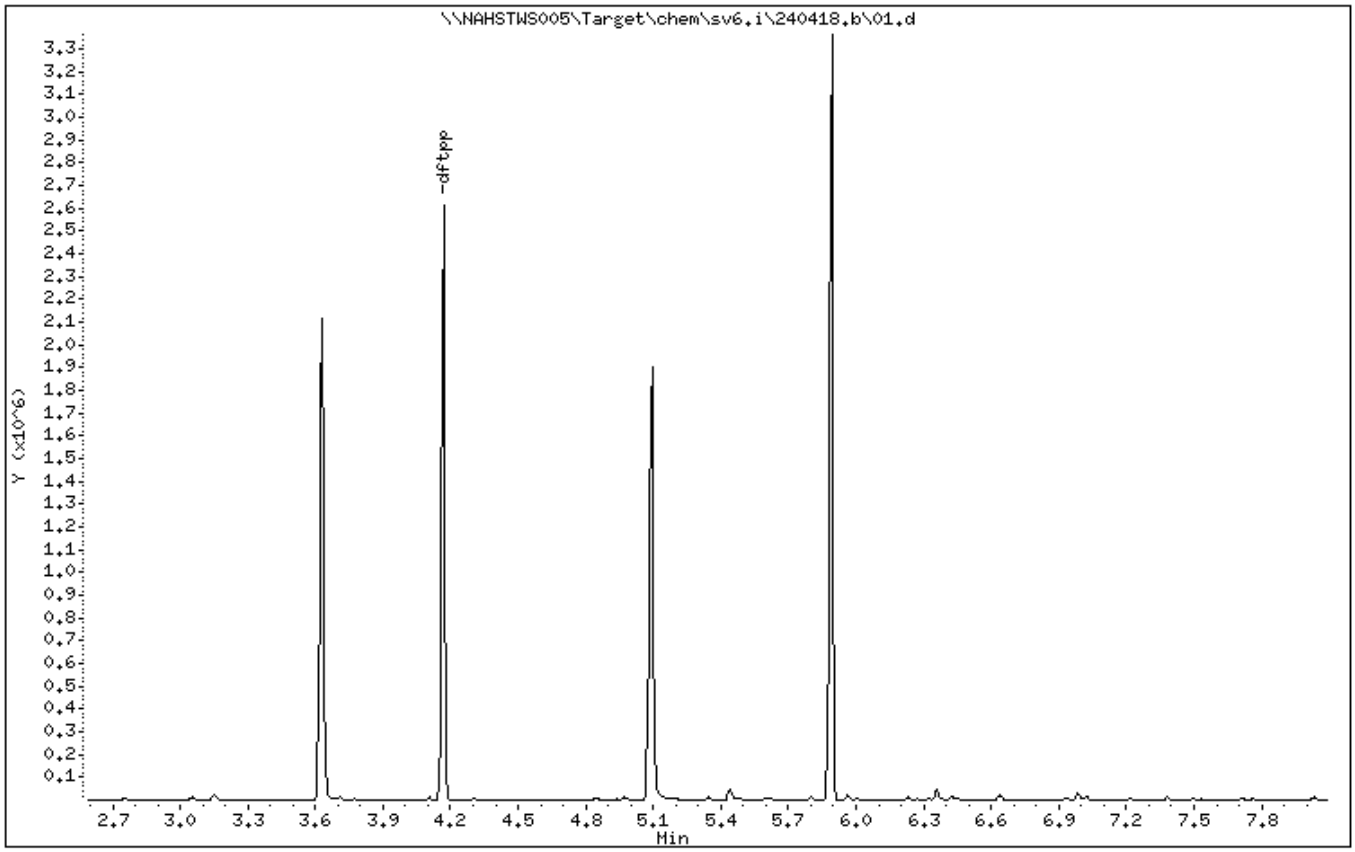
Date : 18-APR-2024 10:39

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\240418.b\01.d
Inj Date : 18-APR-2024 10:39
InstruID : SV6.i
LabSampID : DFTPP

NO MANUAL INTEGRATIONS

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\02.D
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Inj Date : 18-APR-2024 10:51
Operator : LG Inst ID: SV6.i
Smp Info : SLSTD-2.5
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\R8270DLL.m
Meth Date : 18-Apr-2024 11:45 marco.guti Quant Type: ISTD
Cal Date : 25-MAR-2022 17:41 Cal File: 007.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: llpah12MNDX.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

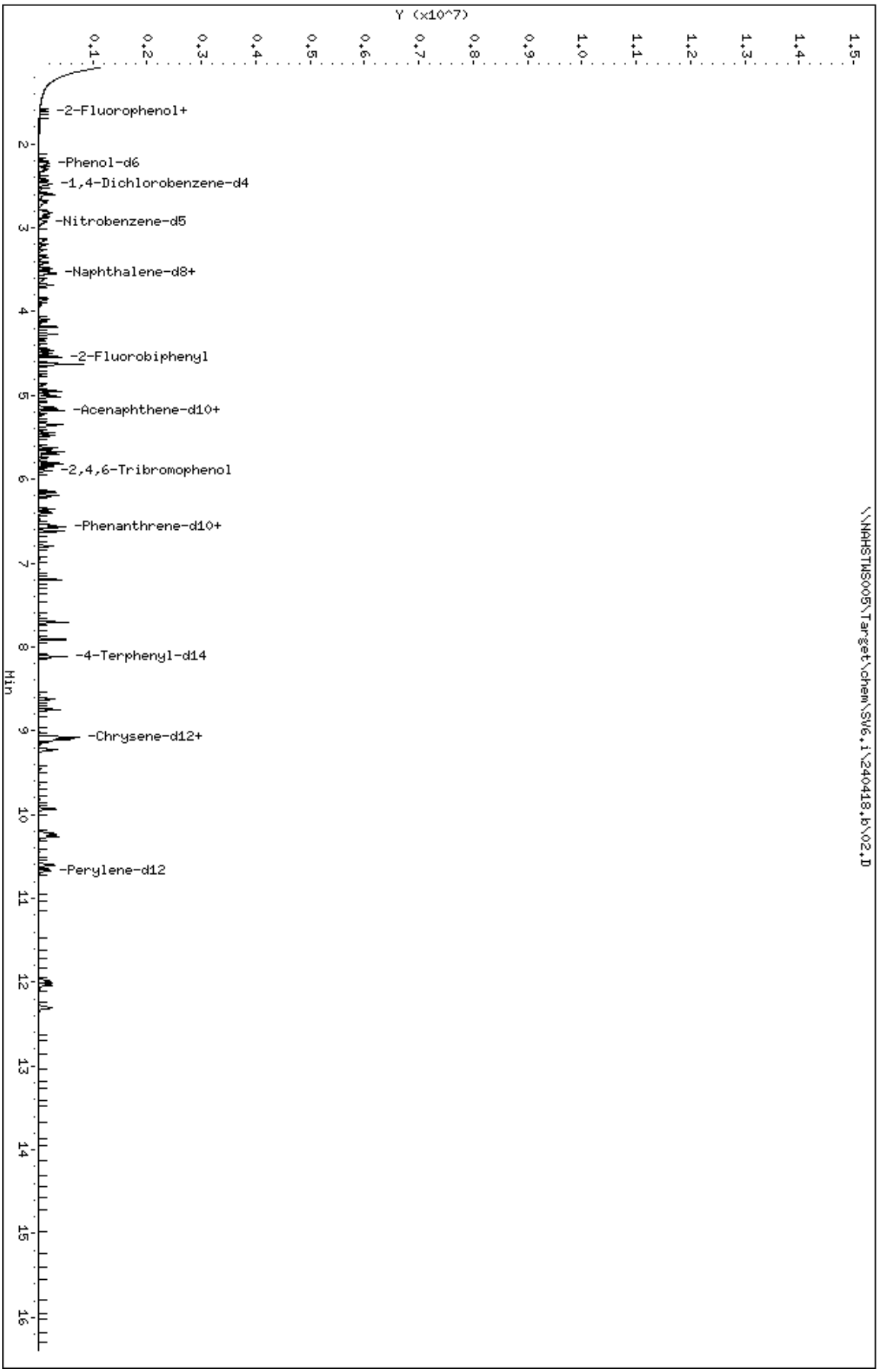
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	REVIEW CODE
* 20 1,4-Dichlorobenzene-d4	152	2.466	2.466	(1.000)	34998	2.00000	(QMH)	
$ 9 2-Fluorophenol	112	1.605	1.605	(0.651)	57725	2.50000	3.640(M)	
$ 13 Phenol-d6	99	2.220	2.220	(0.900)	64706	2.50000	2.498(M)	
* 45 Naphthalene-d8	136	3.525	3.525	(1.000)	116969	2.00000	(M)	
$ 33 Nitrobenzene-d5	82	2.921	2.921	(0.829)	49229	2.50000	2.456(M)	
* 86 Acenaphthene-d10	164	5.151	5.151	(1.000)	72593	2.00000	(QM)	
$ 69 2-Fluorobiphenyl	172	4.542	4.542	(0.882)	131213	2.50000	2.627(Q)	
$ 105 2,4,6-Tribromophenol	330	5.900	5.900	(1.145)	35557	2.50000	4.825	
* 126 Phenanthrene-d10	188	6.553	6.553	(1.000)	143101	2.00000	(M)	
* 182 Chrysene-d12	240	9.083	9.083	(1.000)	127632	2.00000	(M)	
$ 158 4-Terphenyl-d14	244	8.115	8.115	(0.887)	196984	2.50000	3.167	
* 198 Perylene-d12	264	10.671	10.671	(1.000)	141041	2.00000		
46 Naphthalene	128	3.547	3.547	(1.006)	163926	2.50000	2.833(M)	
61 2-Methylnaphthalene	142	4.183	4.183	(1.169)	111095	2.50000	2.925	
62 1-Methylnaphthalene	142	4.269	4.269	(1.211)	104157	2.50000	2.812(M)	
83 Acenaphthylene	152	5.012	5.012	(0.973)	164225	2.50000	2.617	
88 Acenaphthene	153	5.178	5.178	(1.005)	113104	2.50000	2.965	
92 Dibenzofuran	168	5.344	5.344	(1.037)	170847	2.50000	2.970	
98 Fluorene	166	5.670	5.670	(1.101)	137402	2.50000	3.021	

128 Phenanthrene	178	6.574	6.574 (1.003)	201565	2.50000	2.722(H)
130 Anthracene	178	6.622	6.622 (1.011)	201296	2.50000	2.797

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	AMOUNTS ON-COL (NG)	REVIEW CODE
149 Fluoranthene	202	7.708	7.708	(1.176)	239305	2.50000	3.294	
155 Pyrene	202	7.917	7.917	(0.865)	244246	2.50000	2.881	
181 Benzo(a)Anthracene	228	9.077	9.077	(0.992)	232326	2.50000	3.882(H)	
183 Chrysene	228	9.109	9.109	(0.995)	245956	2.50000	2.841	
192 Benzo(b)fluoranthene	252	10.227	10.227	(0.958)	223178	2.50000	3.781(H)	
195 Benzo(k)fluoranthene	252	10.259	10.259	(0.961)	271325	2.50000	2.550	
197 Benzo(a)pyrene	252	10.602	10.602	(0.993)	221395	2.50000	3.077	
209 Indeno(1,2,3-cd)pyrene	276	11.987	11.987	(1.123)	241978	2.50000	3.104(M)	
210 Dibenzo(a,h)anthracene	278	12.035	12.035	(1.128)	206525	2.50000	3.612	
212 Benzo(g,h,i)perylene	276	12.308	12.308	(1.153)	218264	2.50000	3.165	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.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Date : 18-APR-2024 10:51
Client ID: SLSTD-2.5
Sample Info: SLSTD-2.5
Purge Volume: 1000.0
Column phase: RTX-5SIL MS
Instrument: SV6.i
Operator: LG
Column diameter: 0.28
Page 1
\\NAHSTWS005\Target\chem\SV6.i\240418.b\02.D
Y (x10^7)
Min
-2-Fluorophenol+
-Phenol-d6
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8+
-2-Fluorobiphenyl
-Acenaphthene-d10+
-2,4,6-Tribromophenol
-Phenanthrene-d10+
-4-Terphenyl-d14
-Chrysene-d12+
-Perylene-d12

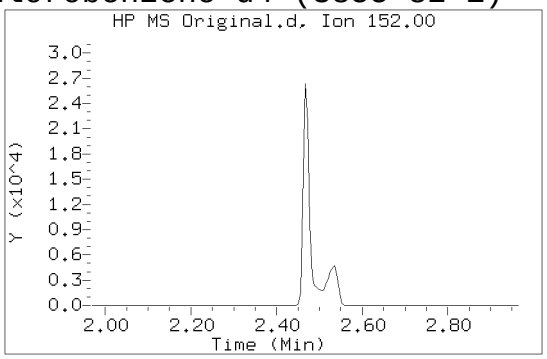
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\02.D
Inj Date : 18-APR-2024 10:51
InstruID : SV6.i
LabSampID : SLSTD-2.5

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

Reason Code:

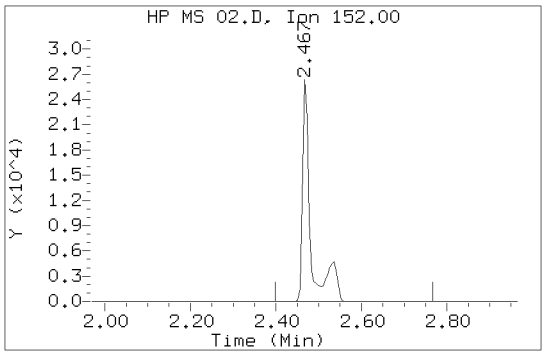
BEFORE

MASS
152
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server



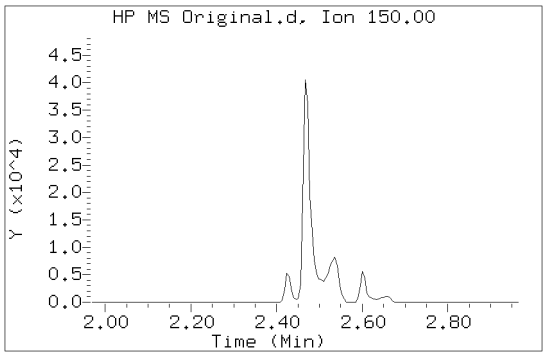
AFTER

MASS
152
AREA
34998
HEIGHT
26352
29-May-2024
11:26
ALSHS
Serve



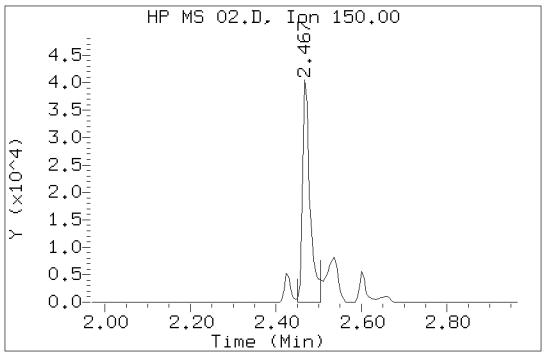
BEFORE

MASS
150
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server



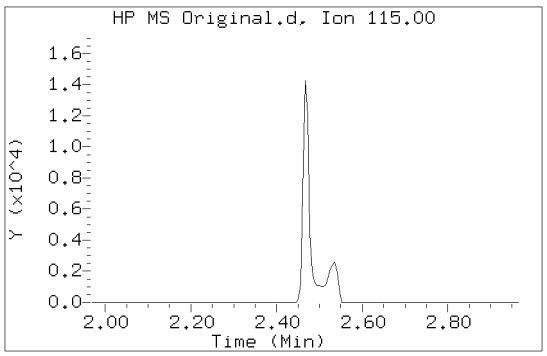
AFTER

MASS
150
AREA
48936
HEIGHT
40504
29-May-2024
11:26
ALSHS
Serve



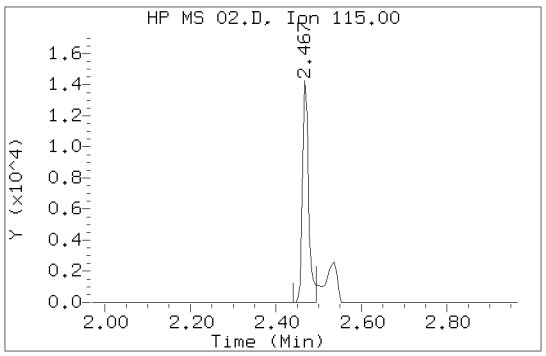
BEFORE

MASS
115
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server



AFTER

MASS
115
AREA
14005
HEIGHT
14260
29-May-2024
11:26
ALSHS
Serve

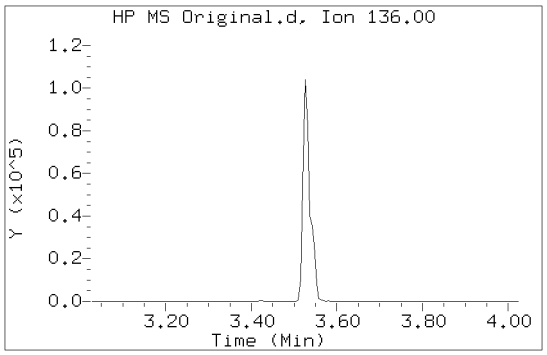


Naphthalene-d8 (1146-65-2)

Reason Code:

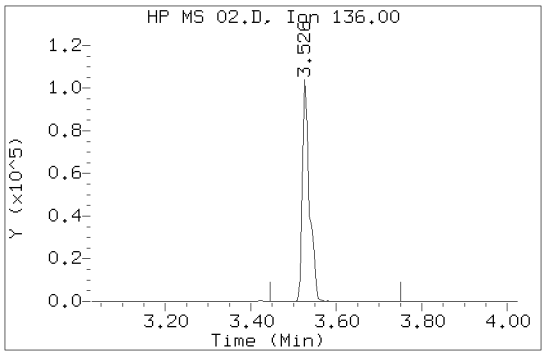
BEFORE

MASS
136
AREA
622
HEIGHT
801
18-Apr-2024
11:10
ALSHS
Server



AFTER

MASS
136
AREA
116969
HEIGHT
104008
29-May-2024
11:26
ALSHS
Serve

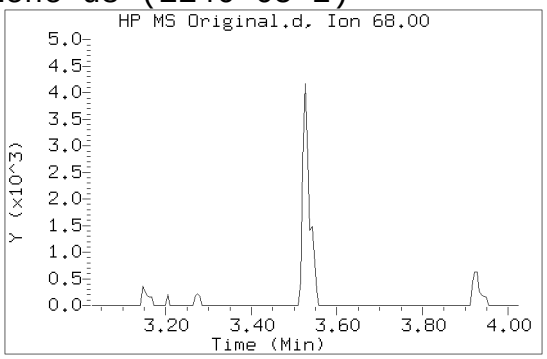


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\02.D
Inj Date : 18-APR-2024 10:51
InstruID : SV6.i
LabSampID : SLSTD-2.5

Naphthalene-d8 (1146-65-2)

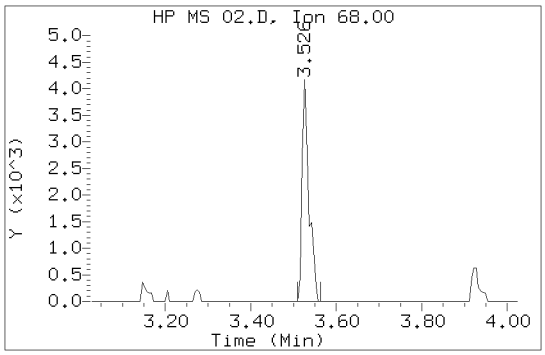
Reason Code:

BEFORE



MASS
68
AREA
1769
HEIGHT
1832
18-Apr-2024
11:10
ALSHS
Server

AFTER

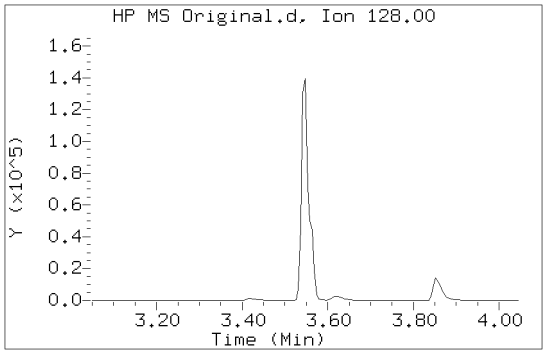


MASS
68
AREA
4565
HEIGHT
4171
29-May-2024
11:26
ALSHS
Serve

Naphthalene (91-20-3)

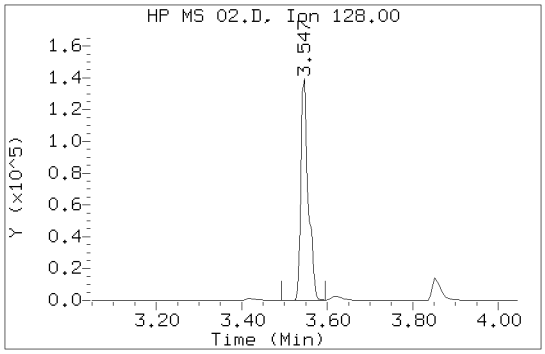
Reason Code:

BEFORE



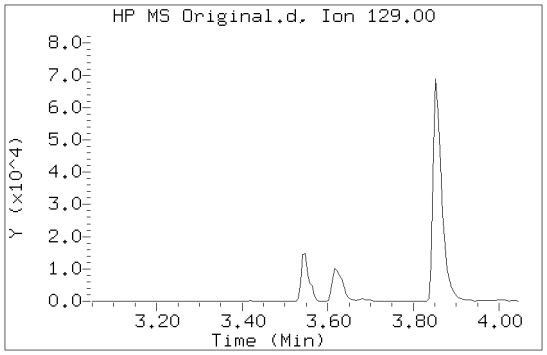
MASS
128
AREA
11149
HEIGHT
13250
18-Apr-2024
11:10
ALSHS
Server

AFTER



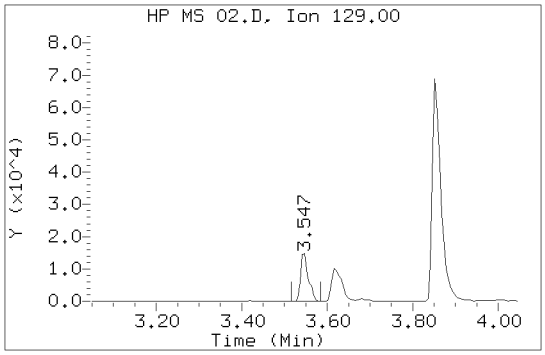
MASS
128
AREA
163926
HEIGHT
139357
29-May-2024
11:26
ALSHS
Serve

BEFORE



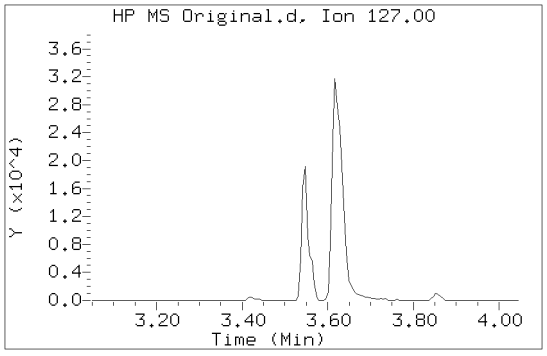
MASS
129
AREA
972
HEIGHT
1404
18-Apr-2024
11:10
ALSHS
Server

AFTER



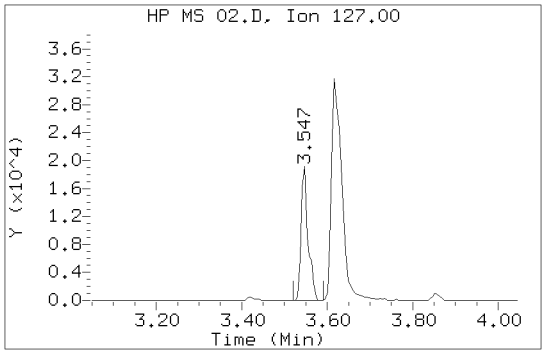
MASS
129
AREA
18213
HEIGHT
14704
29-May-2024
11:26
ALSHS
Serve

BEFORE



MASS
127
AREA
44420
HEIGHT
49472
18-Apr-2024
11:10
ALSHS
Server

AFTER



MASS
127
AREA
21150
HEIGHT
19160
29-May-2024
11:26
ALSHS
Serve

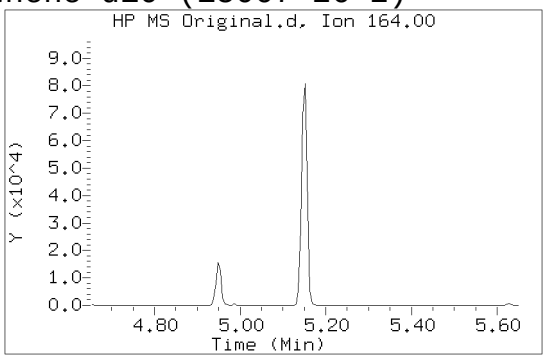
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\02.D
Inj Date : 18-APR-2024 10:51
InstruID : SV6.i
LabSampID : SLSTD-2.5

Acenaphthene-d10 (15067-26-2)

Reason Code:

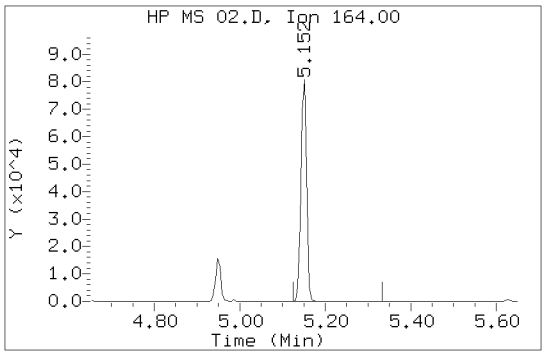
BEFORE

MASS
164
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server



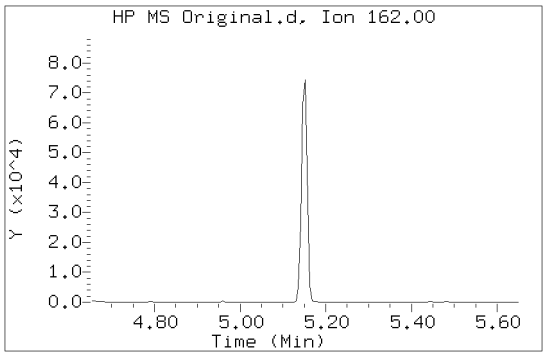
AFTER

MASS
164
AREA
72593
HEIGHT
80768
29-May-2024
11:26
ALSHS
Serve



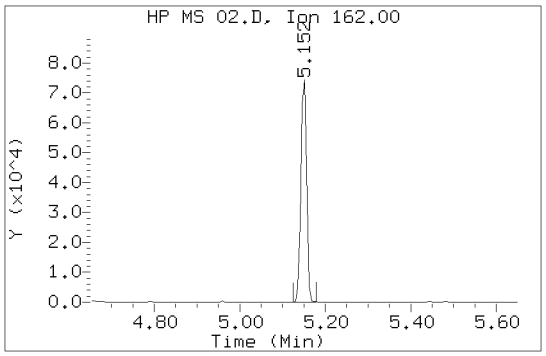
BEFORE

MASS
162
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server



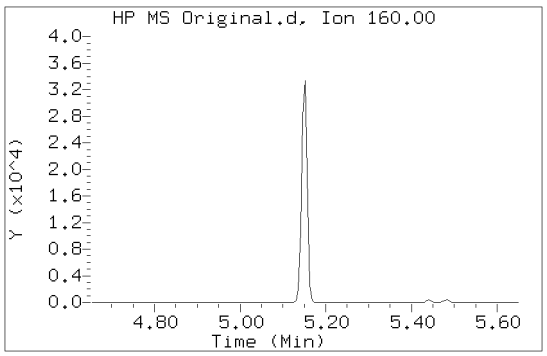
AFTER

MASS
162
AREA
68214
HEIGHT
74368
29-May-2024
11:26
ALSHS
Serve



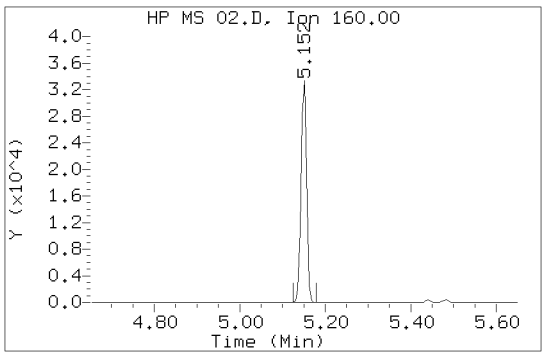
BEFORE

MASS
160
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server



AFTER

MASS
160
AREA
29554
HEIGHT
33360
29-May-2024
11:26
ALSHS
Serve

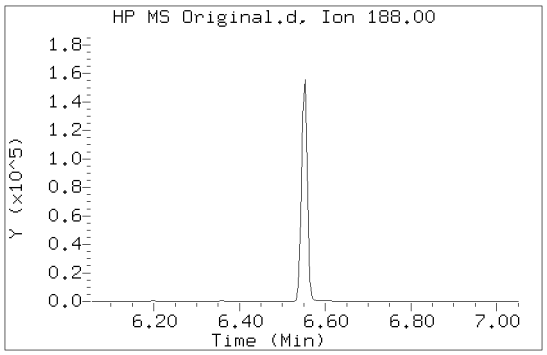


Phenanthrene-d10 (1517-22-2)

Reason Code:

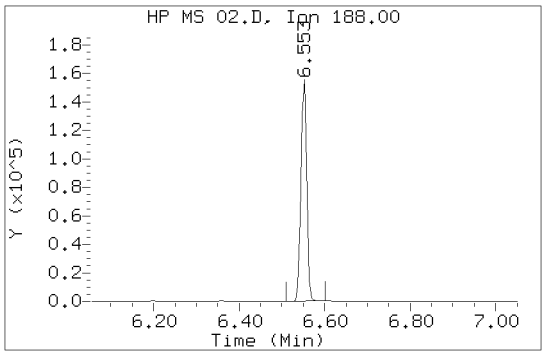
BEFORE

MASS
188
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server



AFTER

MASS
188
AREA
143101
HEIGHT
155338
29-May-2024
11:26
ALSHS
Serve



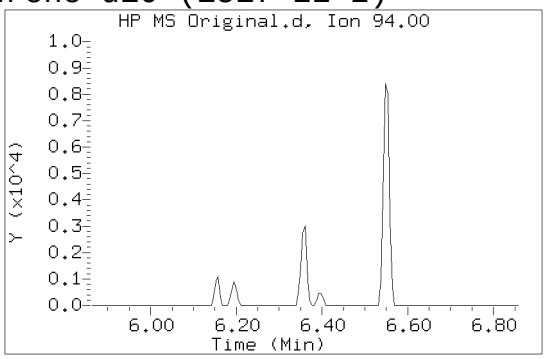
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\02.D
Inj Date : 18-APR-2024 10:51
InstruID : SV6.i
LabSampID : SLSTD-2.5

Phenanthrene-d10 (1517-22-2)

Reason Code:

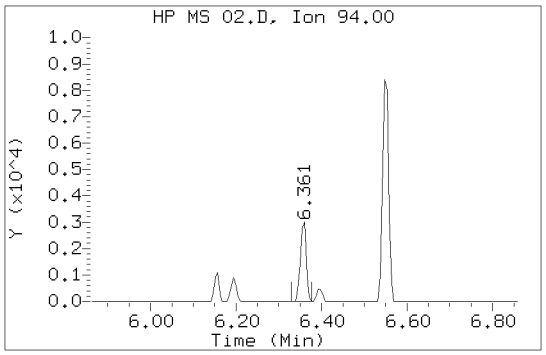
BEFORE

MASS
94
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server



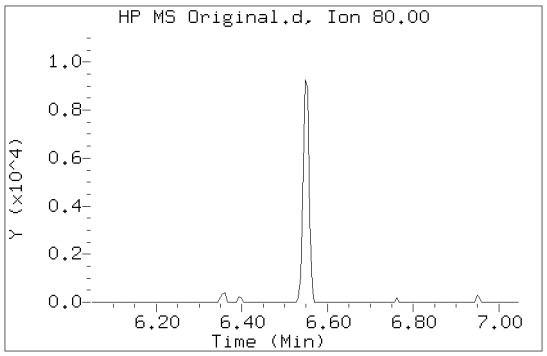
AFTER

MASS
94
AREA
2802
HEIGHT
3004
29-May-2024
11:26
ALSHS
Serve



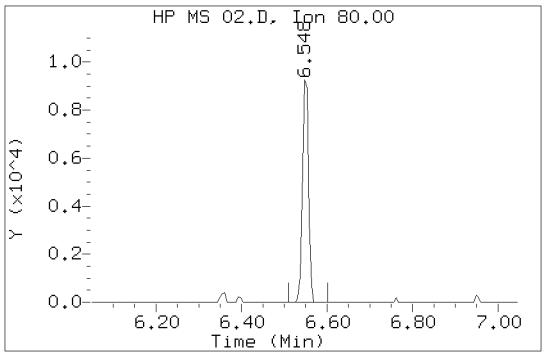
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server



AFTER

MASS
80
AREA
8943
HEIGHT
9256
29-May-2024
11:26
ALSHS
Serve

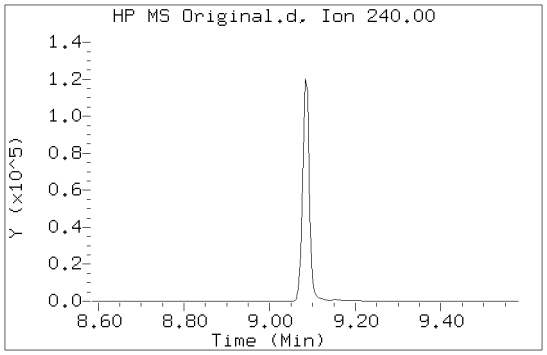


Chrysene-d12 (1719-03-5)

Reason Code:

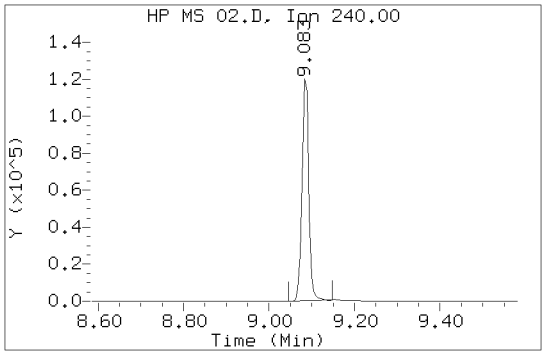
BEFORE

MASS
240
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server



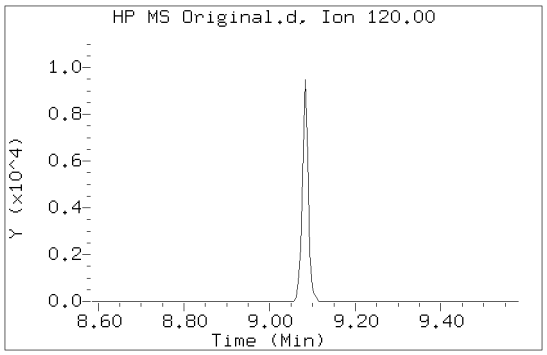
AFTER

MASS
240
AREA
127632
HEIGHT
119890
29-May-2024
11:26
ALSHS
Serve



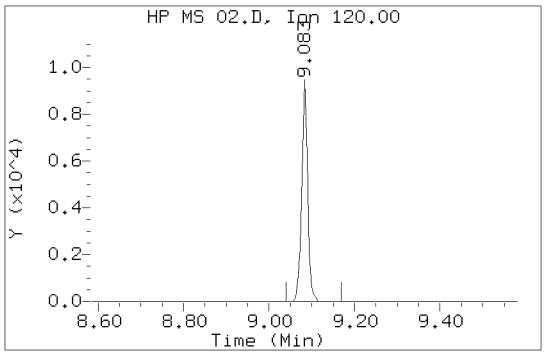
BEFORE

MASS
120
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server



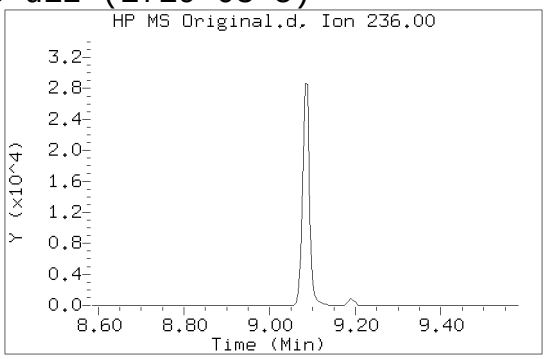
AFTER

MASS
120
AREA
8826
HEIGHT
9477
29-May-2024
11:26
ALSHS
Serve



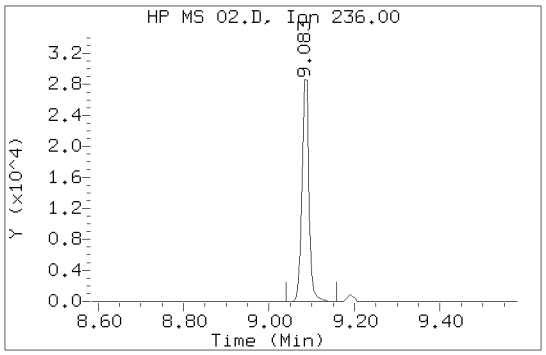
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\02.D
Inj Date : 18-APR-2024 10:51
InstruID : SV6.i
LabSampID : SLSTD-2.5

Chrysene-d12 (1719-03-5)



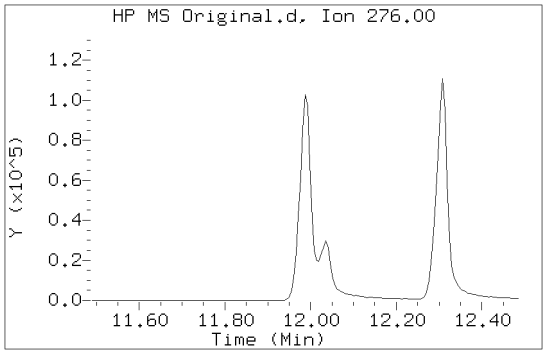
BEFORE
MASS
236
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server

Reason Code:



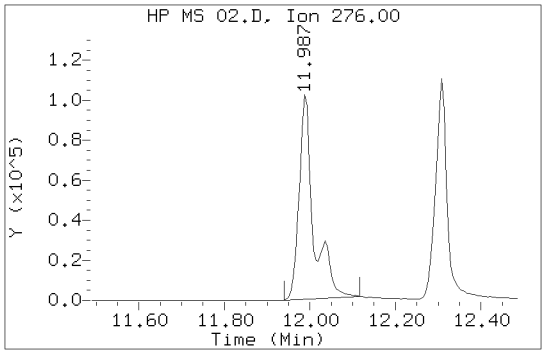
AFTER
MASS
236
AREA
31947
HEIGHT
28600
29-May-2024
11:26
ALSHS
Serve

Indeno(1,2,3-cd)pyrene (193-39-5)

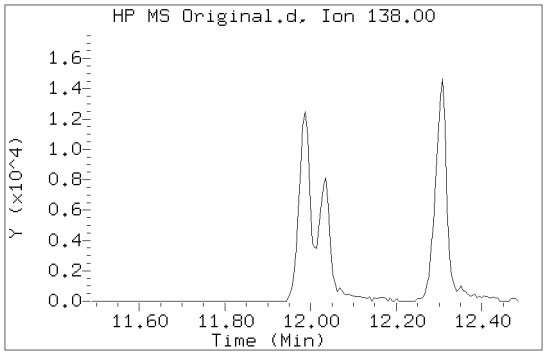


BEFORE
MASS
276
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server

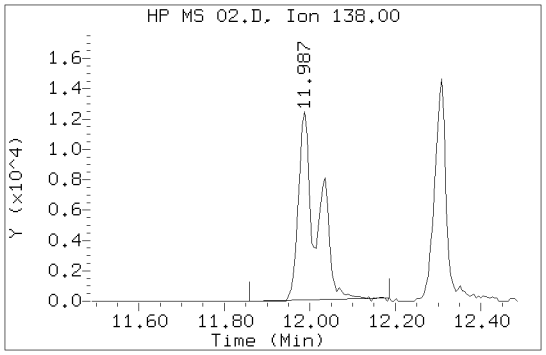
Reason Code:



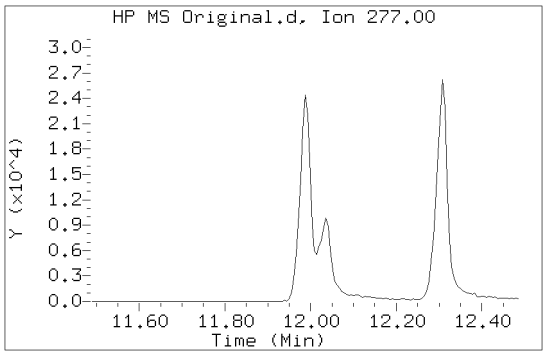
AFTER
MASS
276
AREA
241978
HEIGHT
102295
29-May-2024
11:26
ALSHS
Serve



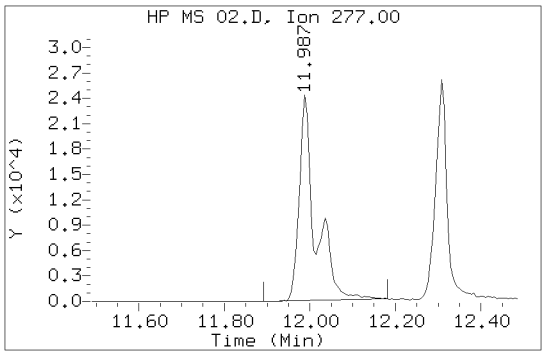
BEFORE
MASS
138
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server



AFTER
MASS
138
AREA
37063
HEIGHT
12425
29-May-2024
11:26
ALSHS
Serve



BEFORE
MASS
277
AREA
0
HEIGHT
0
18-Apr-2024
11:10
ALSHS
Server



AFTER
MASS
277
AREA
63624
HEIGHT
24300
29-May-2024
11:26
ALSHS
Serve

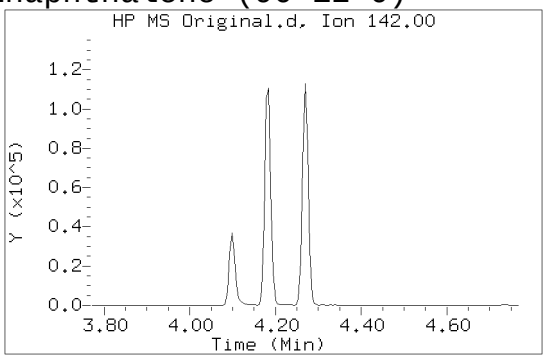
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\02.D
Inj Date : 18-APR-2024 10:51
InstruID : SV6.i
LabSampID : SLSTD-2.5

1-Methylnaphthalene (90-12-0)

Reason Code:

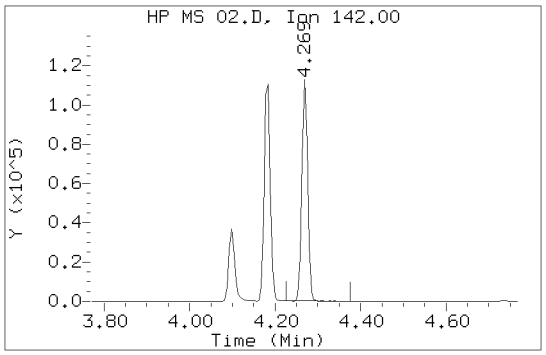
BEFORE

MASS
142
AREA
298
HEIGHT
468
18-Apr-2024
11:10
ALSHS
Server



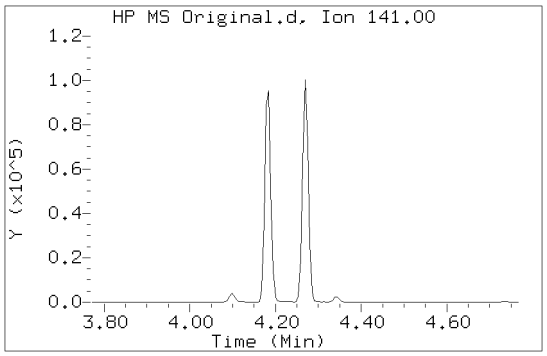
AFTER

MASS
142
AREA
104157
HEIGHT
112676
29-May-2024
11:26
ALSHS
Serve



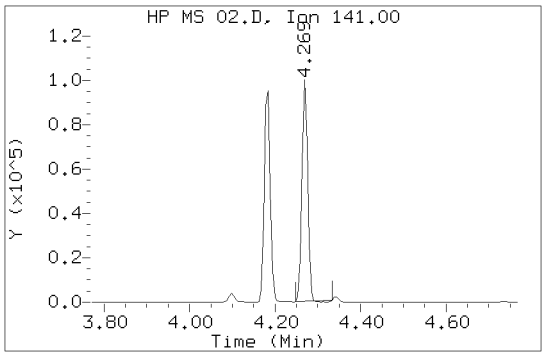
BEFORE

MASS
141
AREA
724
HEIGHT
761
18-Apr-2024
11:10
ALSHS
Server



AFTER

MASS
141
AREA
89805
HEIGHT
99821
29-May-2024
11:26
ALSHS
Serve

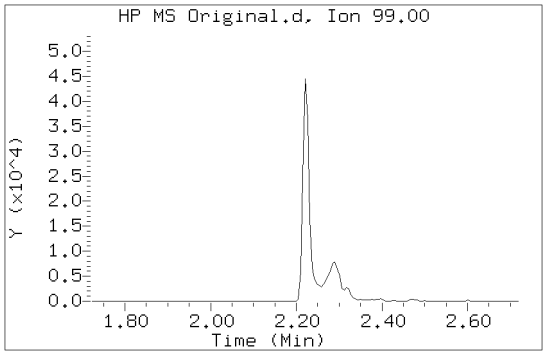


Phenol-d6 (4165-62-2)

Reason Code:

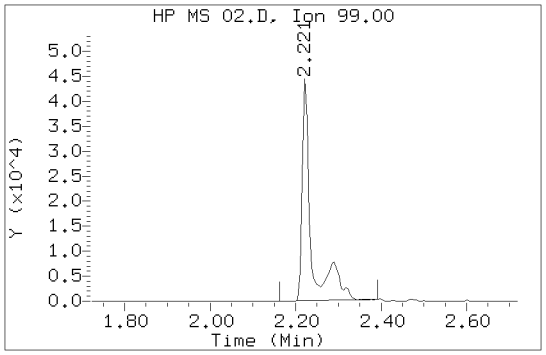
BEFORE

MASS
99
AREA
7473
HEIGHT
5854
18-Apr-2024
11:10
ALSHS
Server



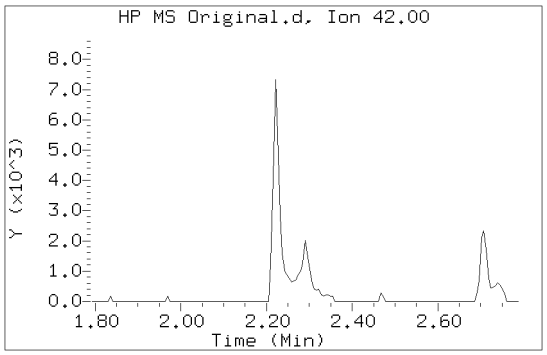
AFTER

MASS
99
AREA
64706
HEIGHT
44374
29-May-2024
11:26
ALSHS
Serve



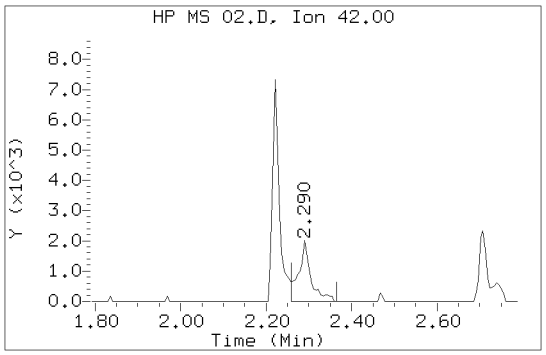
BEFORE

MASS
42
AREA
2042
HEIGHT
1677
18-Apr-2024
11:10
ALSHS
Server



AFTER

MASS
42
AREA
4061
HEIGHT
2018
29-May-2024
11:26
ALSHS
Serve



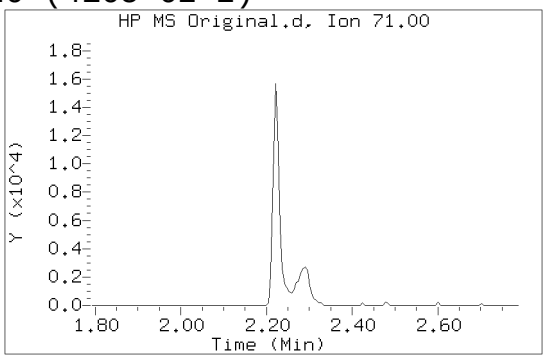
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\02.D
Inj Date : 18-APR-2024 10:51
InstruID : SV6.i
LabSampID : SLSTD-2.5

Phenol-d6 (4165-62-2)

Reason Code:

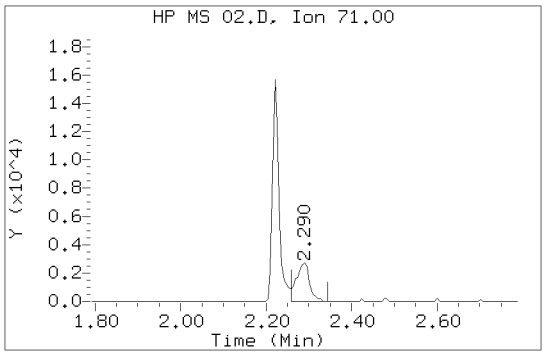
BEFORE

MASS
71
AREA
619
HEIGHT
432
18-Apr-2024
11:10
ALSHS
Server



AFTER

MASS
71
AREA
5920
HEIGHT
2731
29-May-2024
11:26
ALSHS
Serve

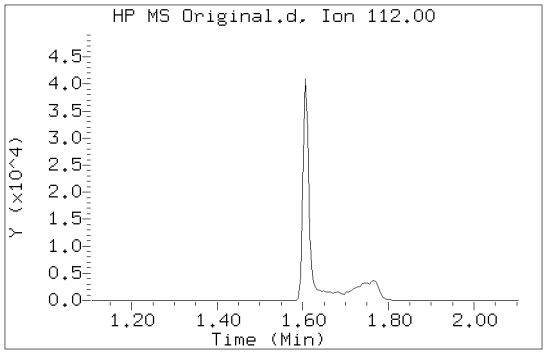


2-Fluorophenol (367-12-4)

Reason Code:

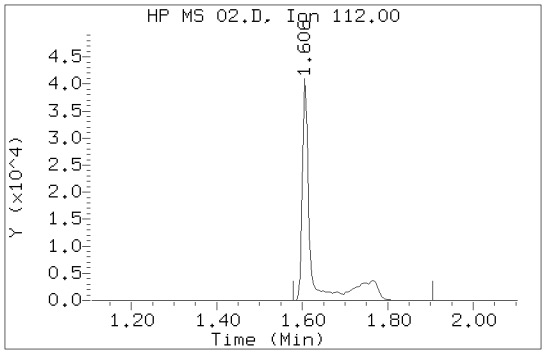
BEFORE

MASS
82
AREA
1661
HEIGHT
1465
18-Apr-2024
11:10
ALSHS
Server



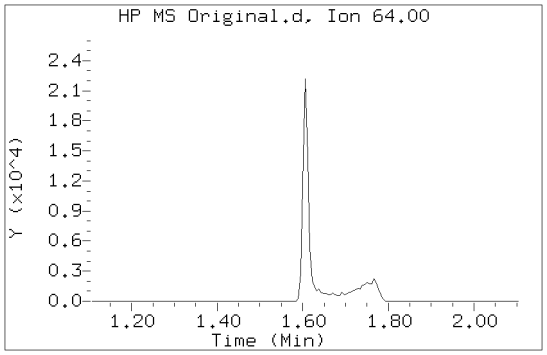
AFTER

MASS
112
AREA
57725
HEIGHT
40968
29-May-2024
11:26
ALSHS
Serve



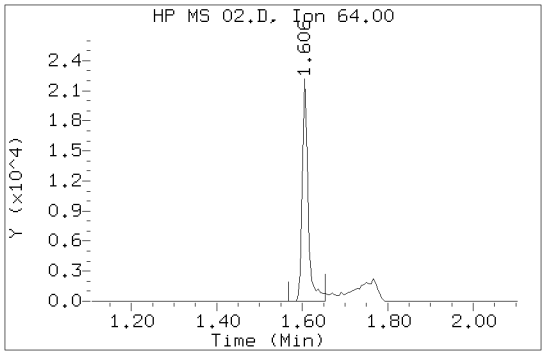
BEFORE

MASS
128
AREA
4728
HEIGHT
2573
18-Apr-2024
11:10
ALSHS
Server



AFTER

MASS
64
AREA
20798
HEIGHT
22184
29-May-2024
11:26
ALSHS
Serve

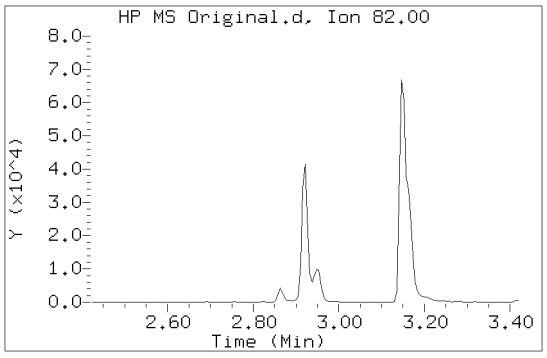


Nitrobenzene-d5 (4165-60-0)

Reason Code:

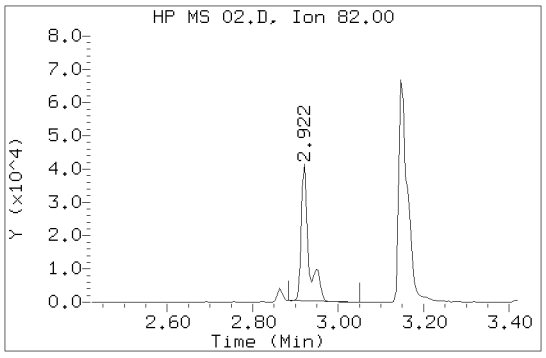
BEFORE

MASS
172
AREA
2153
HEIGHT
2572
18-Apr-2024
11:10
ALSHS
Server



AFTER

MASS
82
AREA
49229
HEIGHT
41047
29-May-2024
11:26
ALSHS
Serve



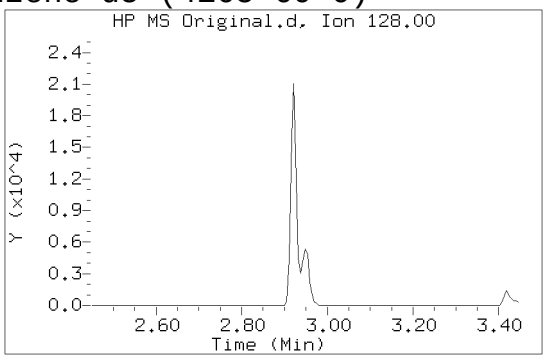
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\02.D
Inj Date : 18-APR-2024 10:51
InstruID : SV6.i
LabSampID : SLSTD-2.5

Nitrobenzene-d5 (4165-60-0)

Reason Code:

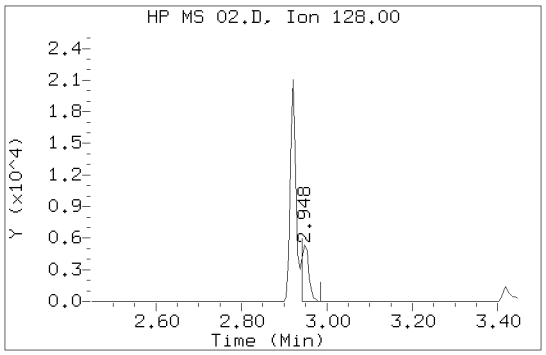
BEFORE

MASS
171
AREA
1035
HEIGHT
1369
18-Apr-2024
11:10
ALSHS
Server



AFTER

MASS
128
AREA
5786
HEIGHT
5364
29-May-2024
11:26
ALSHS
Serve



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Lab Smp Id: 14DX-0.08 Client Smp ID: 14DX-0.08
Inj Date : 18-APR-2024 12:24
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 18-Apr-2024 15:51 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 3 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)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	3251	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	10577	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.497	(0.812)	2161	0.08000	0.06806(M)
* 86 Acenaphthene-d10	164	4.665	4.665	(1.000)	6678	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.064	(0.871)	6691	0.08000	0.06554(M)
* 126 Phenanthrene-d10	188	6.066	6.066	(1.000)	13232	0.10000	(M)
* 182 Chrysene-d12	240	8.604	8.604	(1.000)	12125	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.636	7.636	(0.887)	14251	0.08000	0.05769(M)
* 198 Perylene-d12	264	10.195	10.195	(1.000)	11098	0.10000	(M)
1 1,4-Dioxane	58	0.834	0.834	(0.400)	503	0.08000	0.07223(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.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D

Date : 18-APR-2024 12:24

Client ID: 14DX-0.08

Instrument: SV6.i

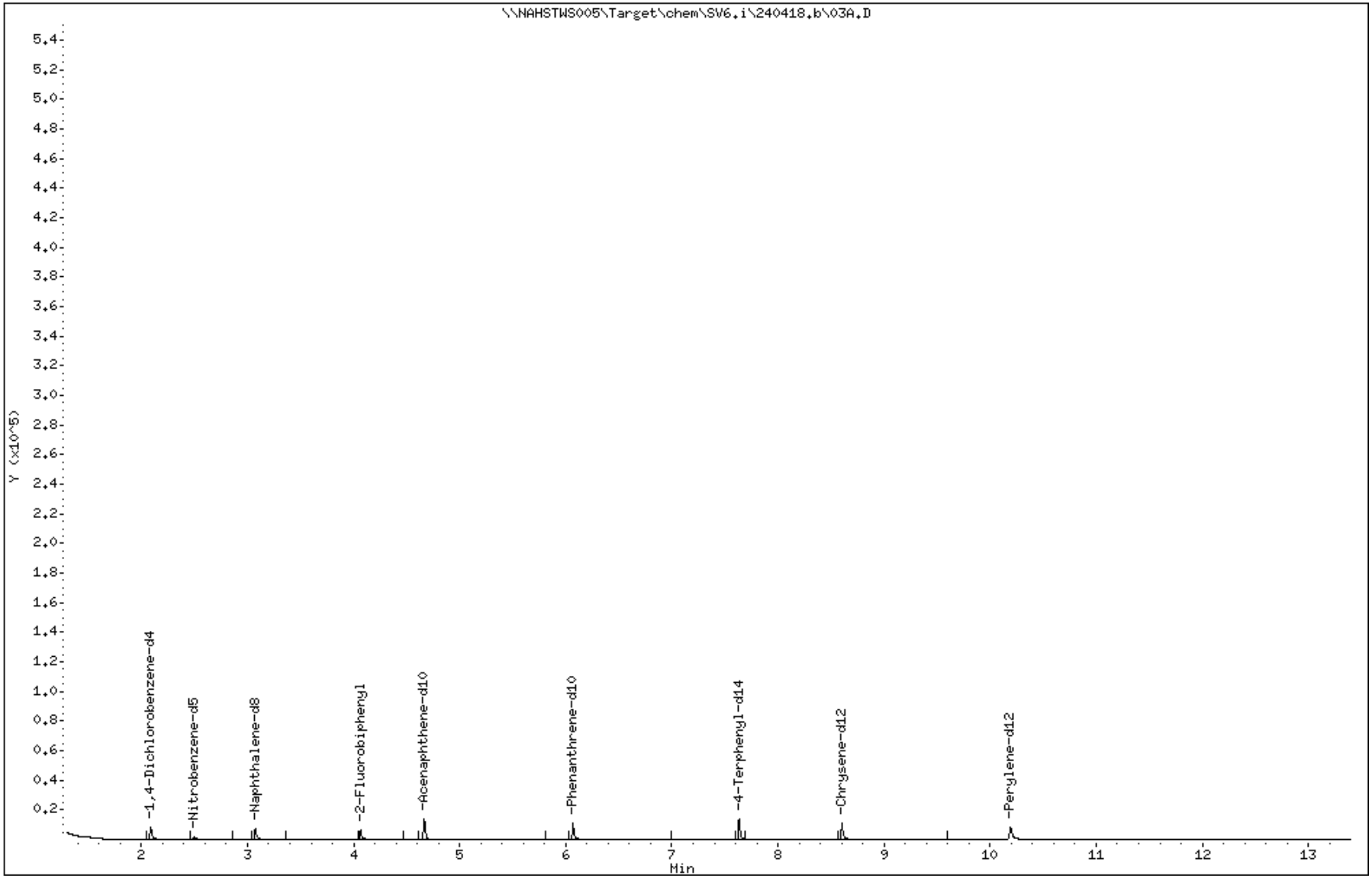
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

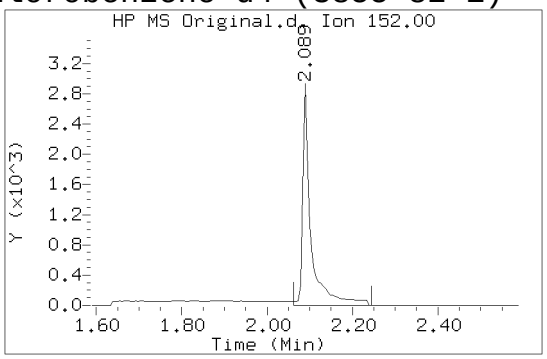


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

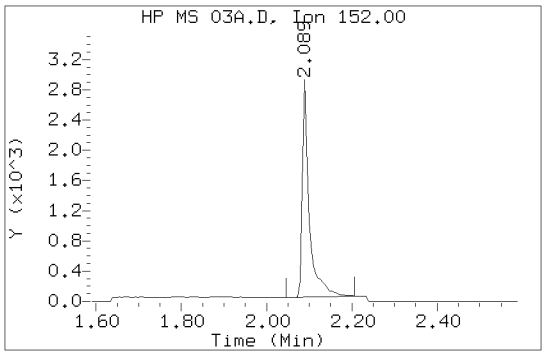
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

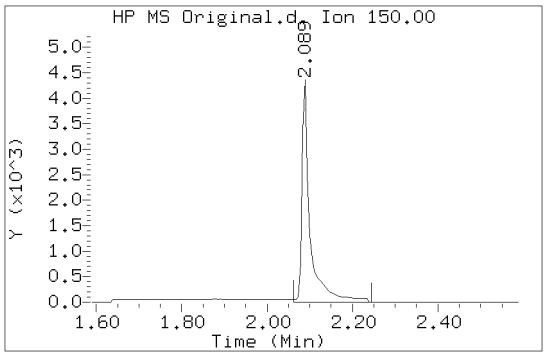
BEFORE
MASS
152
AREA
3915
HEIGHT
2934
18-Apr-2024
12:42
ALSHS
Server



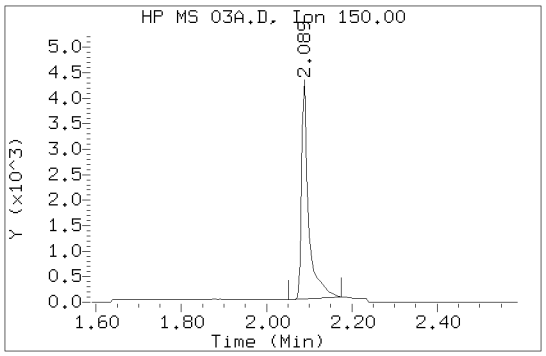
AFTER
MASS
152
AREA
3251
HEIGHT
2876
18-Apr-2024
15:51



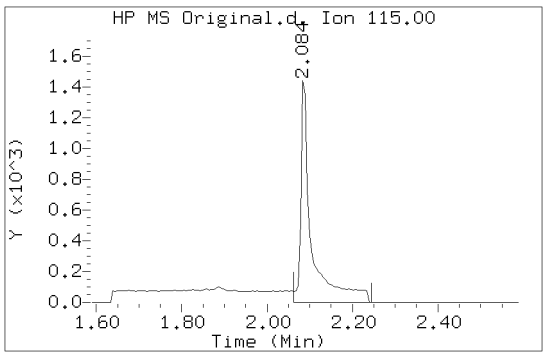
BEFORE
MASS
150
AREA
5788
HEIGHT
4359
18-Apr-2024
12:42
ALSHS
Server



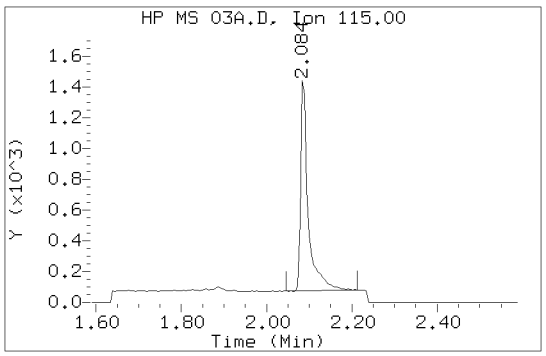
AFTER
MASS
150
AREA
4924
HEIGHT
4290
18-Apr-2024
15:51



BEFORE
MASS
115
AREA
2519
HEIGHT
1442
18-Apr-2024
12:42
ALSHS
Server



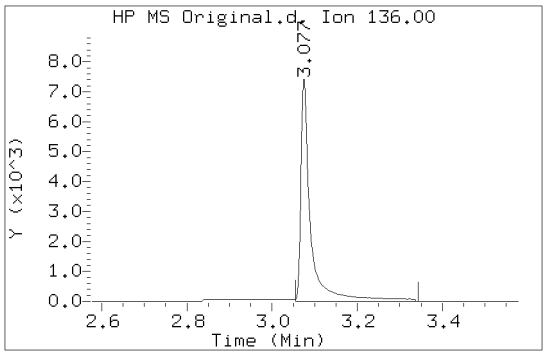
AFTER
MASS
115
AREA
1685
HEIGHT
1365
18-Apr-2024
15:51



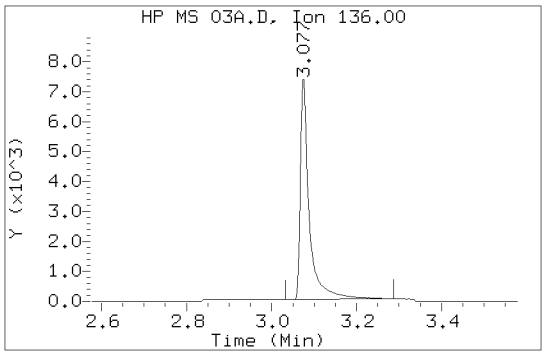
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11842
HEIGHT
7402
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
136
AREA
10577
HEIGHT
7340
18-Apr-2024
15:51



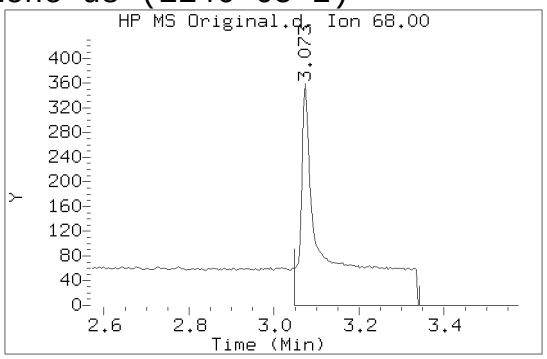
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

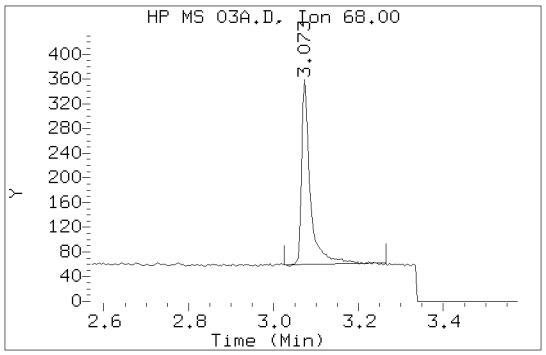
BEFORE

MASS
68
AREA
1473
HEIGHT
359
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
68
AREA
417
HEIGHT
299
18-Apr-2024
15:51

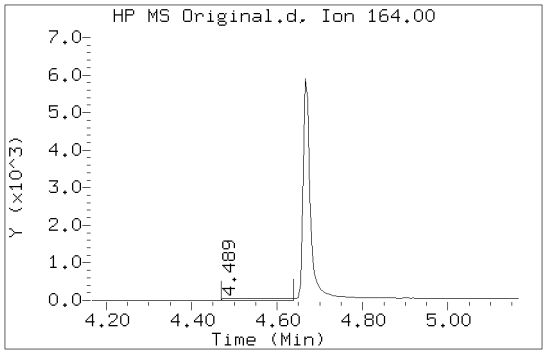


Acenaphthene-d10 (15067-26-2)

Reason Code:

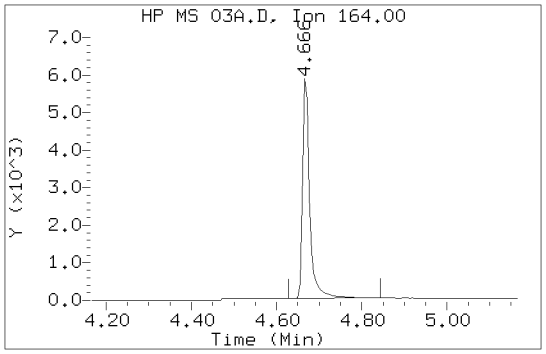
BEFORE

MASS
164
AREA
527
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



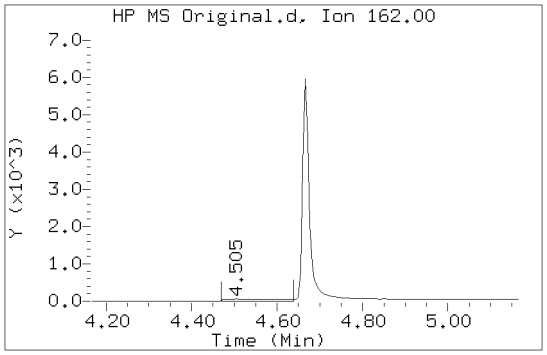
AFTER

MASS
164
AREA
6678
HEIGHT
5851
18-Apr-2024
15:51



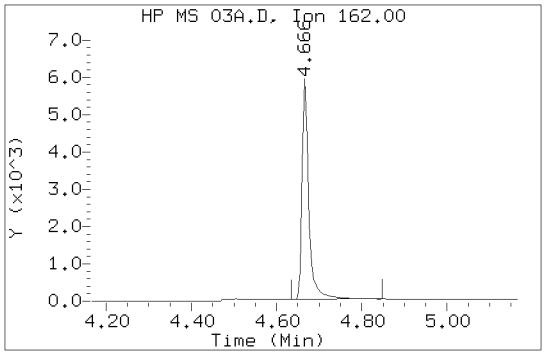
BEFORE

MASS
162
AREA
540
HEIGHT
61
18-Apr-2024
12:42
ALSHS
Server



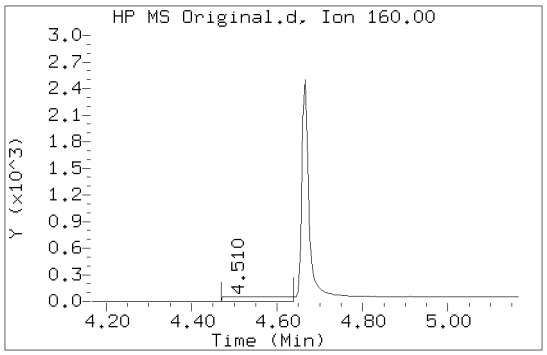
AFTER

MASS
162
AREA
6371
HEIGHT
5906
18-Apr-2024
15:51



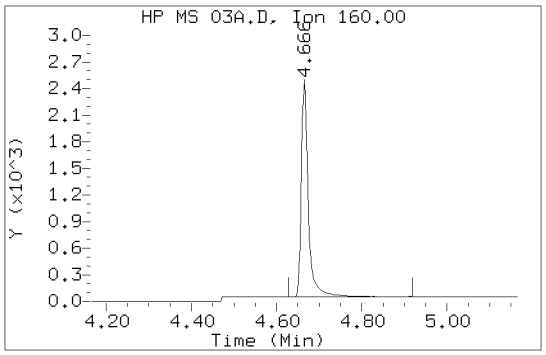
BEFORE

MASS
160
AREA
507
HEIGHT
51
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
160
AREA
2763
HEIGHT
2449
18-Apr-2024
15:51



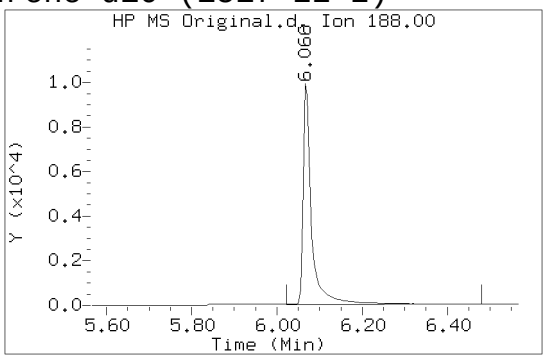
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

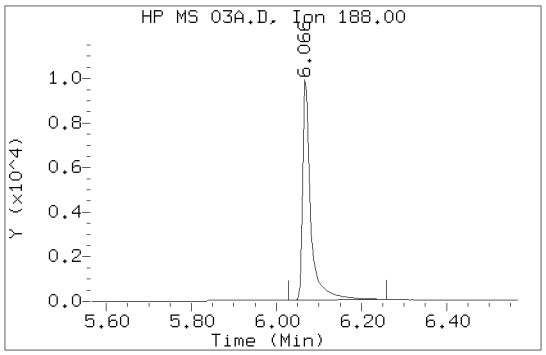
BEFORE

MASS
188
AREA
14212
HEIGHT
9923
18-Apr-2024
12:42
ALSHS
Server



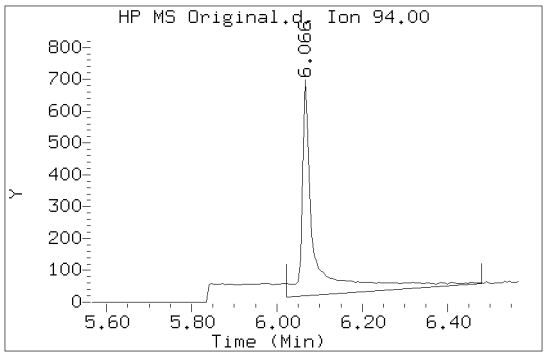
AFTER

MASS
188
AREA
13232
HEIGHT
9886
18-Apr-2024
15:51



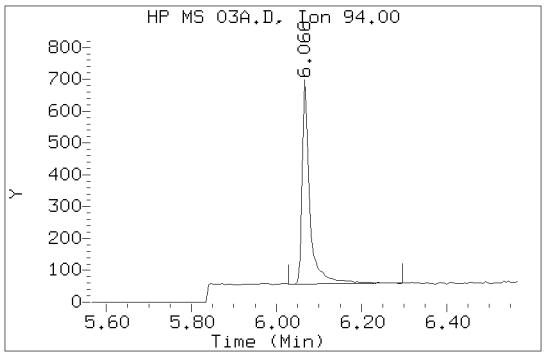
BEFORE

MASS
94
AREA
1408
HEIGHT
677
18-Apr-2024
12:42
ALSHS
Server



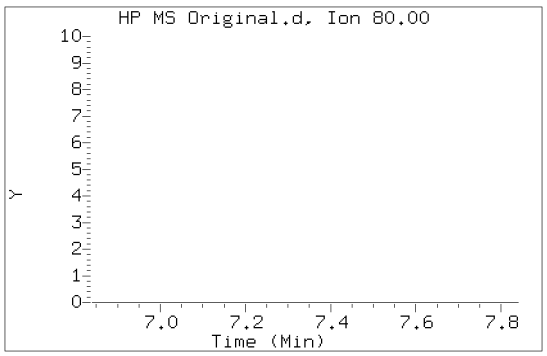
AFTER

MASS
94
AREA
802
HEIGHT
640
18-Apr-2024
15:51



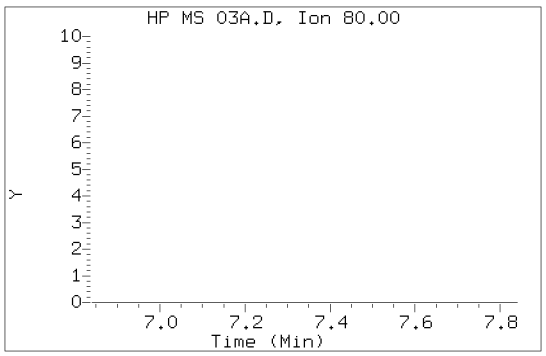
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:51

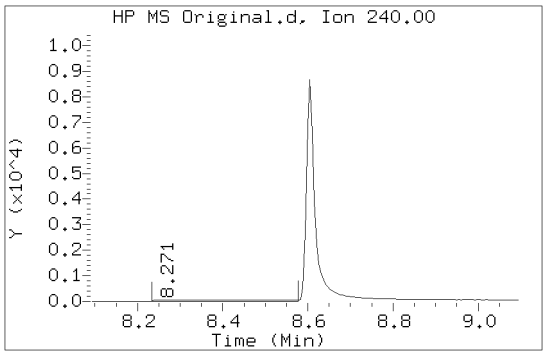


Chrysene-d12 (1719-03-5)

Reason Code:

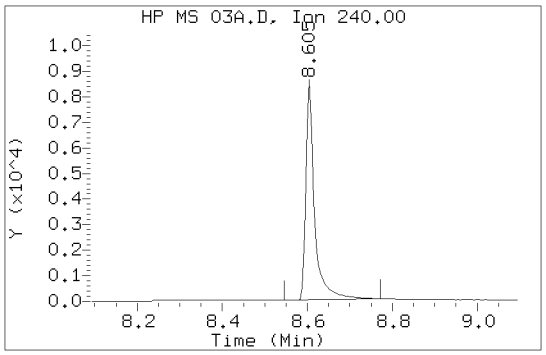
BEFORE

MASS
240
AREA
1046
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
240
AREA
12125
HEIGHT
8606
18-Apr-2024
15:51

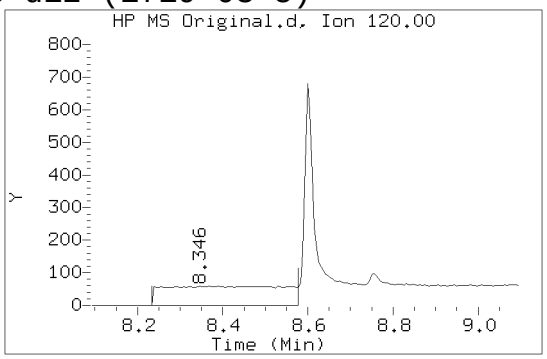


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

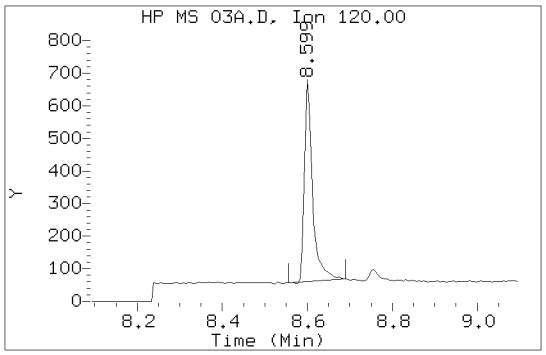
Chrysene-d12 (1719-03-5)

Reason Code:

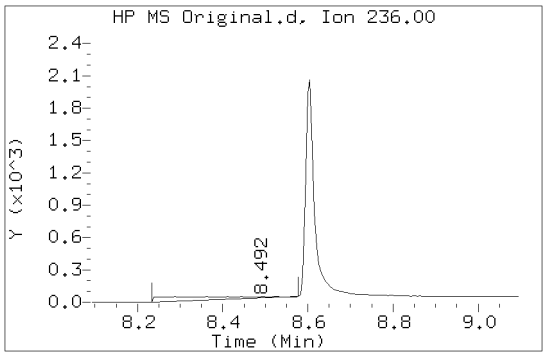
BEFORE
MASS
120
AREA
1175
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



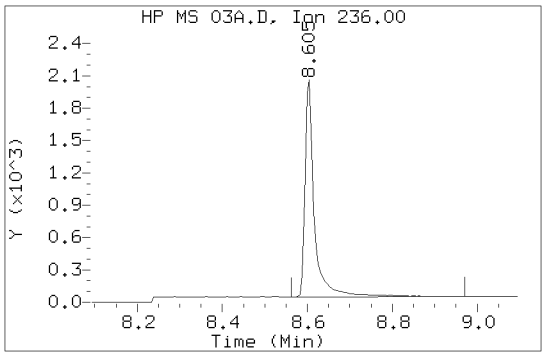
AFTER
MASS
120
AREA
821
HEIGHT
619
18-Apr-2024
15:51



BEFORE
MASS
236
AREA
485
HEIGHT
13
18-Apr-2024
12:42
ALSHS
Server



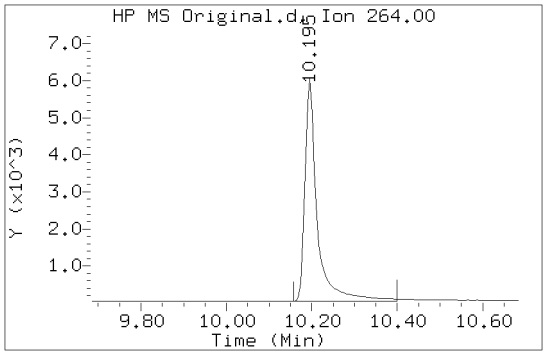
AFTER
MASS
236
AREA
3066
HEIGHT
2012
18-Apr-2024
15:51



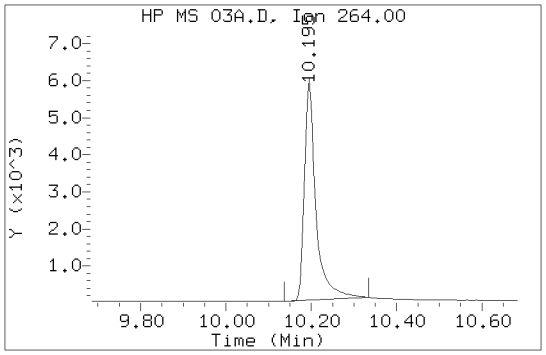
Perylene-d12 (1520-96-3)

Reason Code:

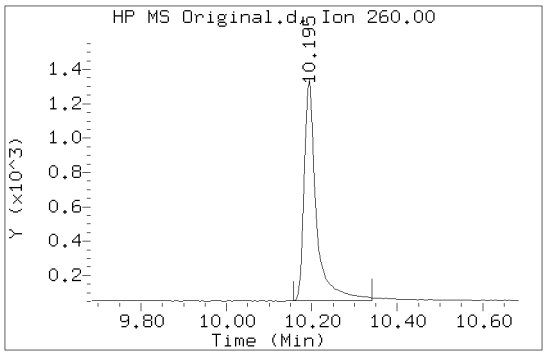
BEFORE
MASS
264
AREA
11914
HEIGHT
5992
18-Apr-2024
12:42
ALSHS
Server



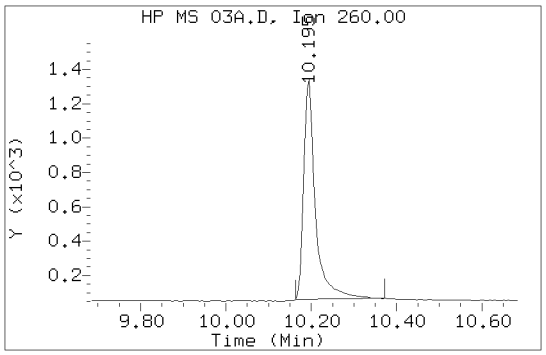
AFTER
MASS
264
AREA
11098
HEIGHT
5966
18-Apr-2024
15:51



BEFORE
MASS
260
AREA
2543
HEIGHT
1286
18-Apr-2024
12:42
ALSHS
Server



AFTER
MASS
260
AREA
2442
HEIGHT
1278
18-Apr-2024
15:51



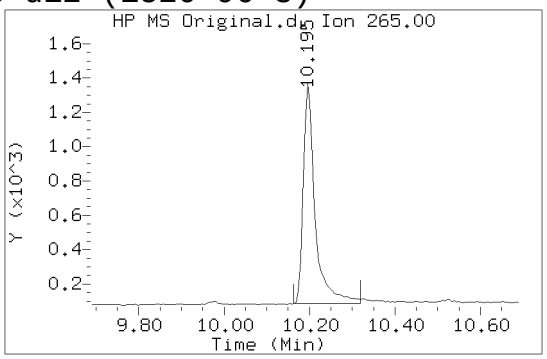
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Perylene-d12 (1520-96-3)

Reason Code:

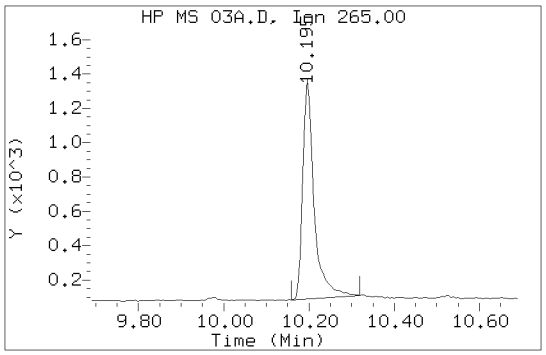
BEFORE

MASS
265
AREA
2459
HEIGHT
1281
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
265
AREA
2359
HEIGHT
1277
18-Apr-2024
15:51

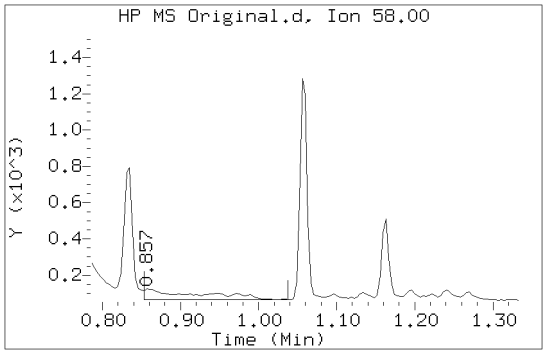


1,4-Dioxane ()

Reason Code:

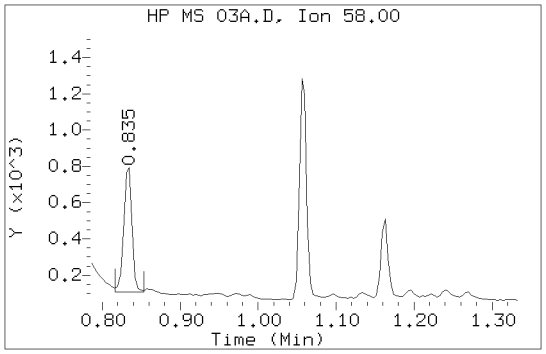
BEFORE

MASS
58
AREA
288
HEIGHT
59
18-Apr-2024
12:42
ALSHS
Server



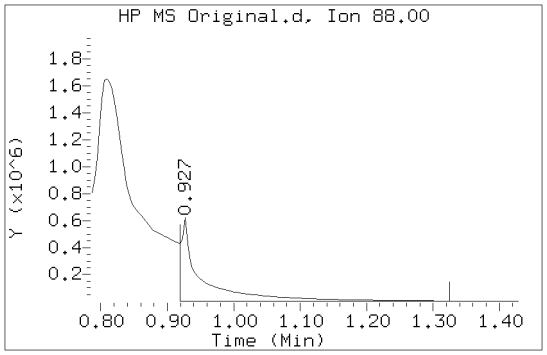
AFTER

MASS
58
AREA
503
HEIGHT
686
18-Apr-2024
15:51



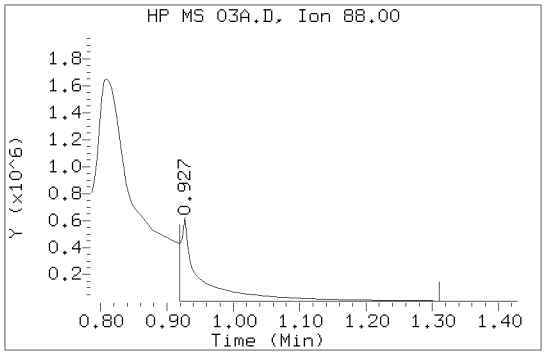
BEFORE

MASS
88
AREA
1284716
HEIGHT
617517
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
88
AREA
1274387
HEIGHT
617087
18-Apr-2024
15:51

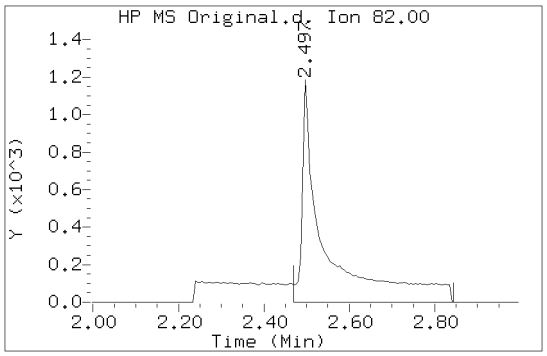


Nitrobenzene-d5 (4165-60-0)

Reason Code:

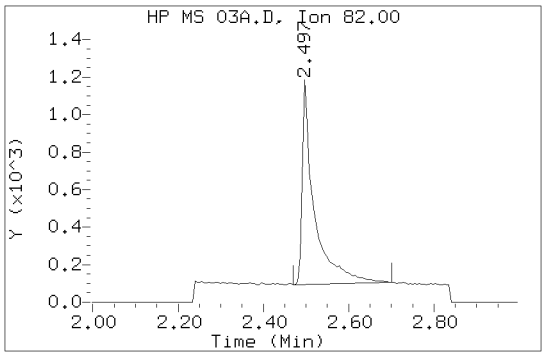
BEFORE

MASS
82
AREA
4330
HEIGHT
1185
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
82
AREA
2161
HEIGHT
1090
18-Apr-2024
15:51



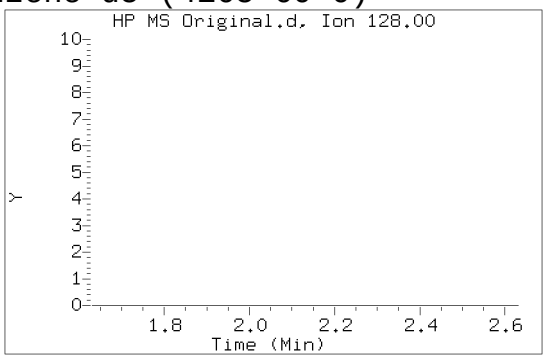
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

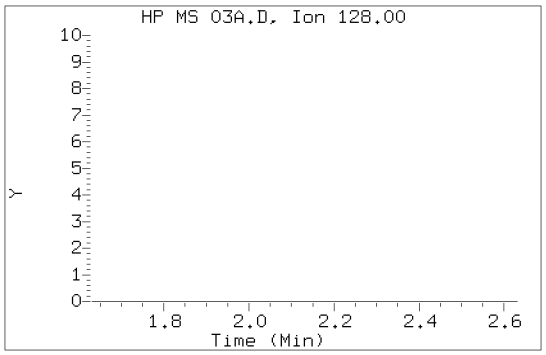
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
12:42
ALSHS
Server



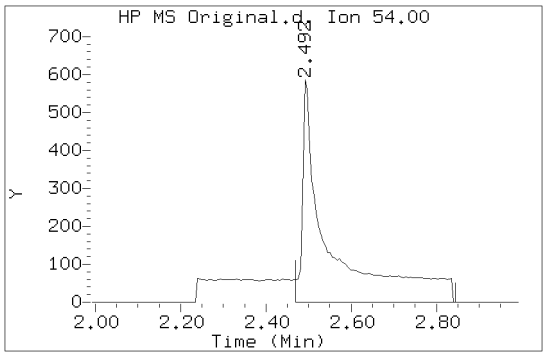
AFTER

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:51



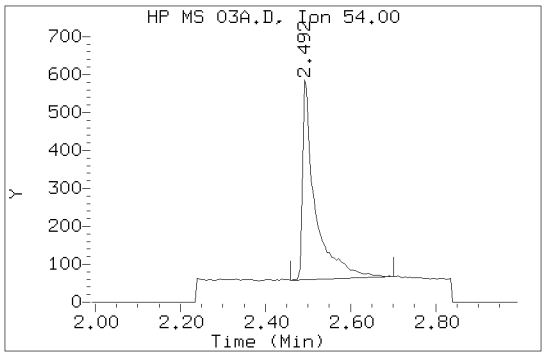
BEFORE

MASS
54
AREA
2489
HEIGHT
586
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
54
AREA
1100
HEIGHT
526
18-Apr-2024
15:51

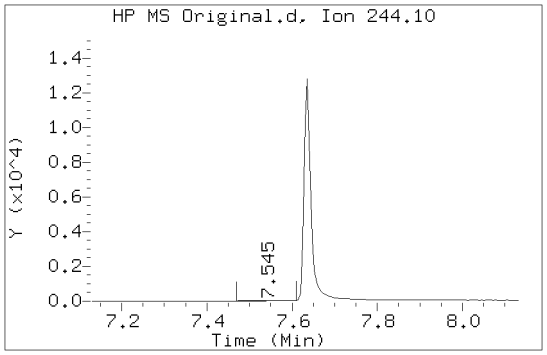


4-Terphenyl-d14 (1718-51-0)

Reason Code:

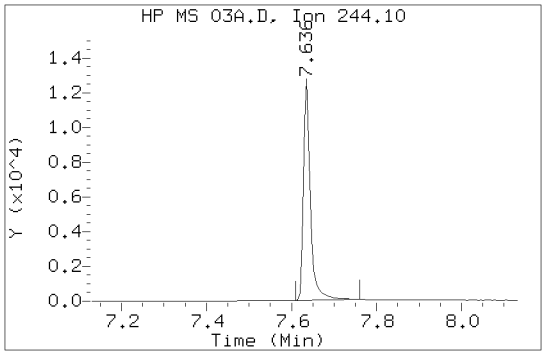
BEFORE

MASS
244.1
AREA
193
HEIGHT
23
18-Apr-2024
12:42
ALSHS
Server



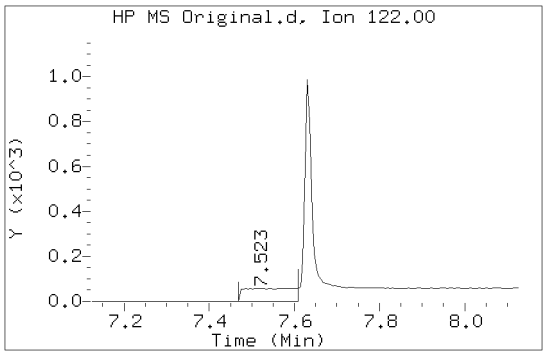
AFTER

MASS
244.1
AREA
14251
HEIGHT
12746
18-Apr-2024
15:51



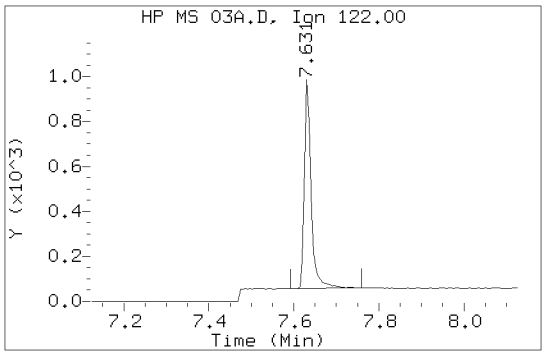
BEFORE

MASS
122
AREA
473
HEIGHT
58
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
122
AREA
1008
HEIGHT
928
18-Apr-2024
15:51



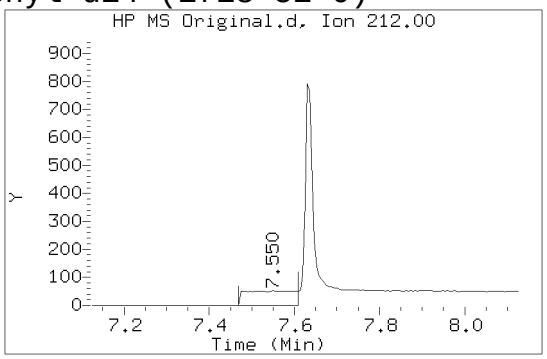
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\03A.D
Inj Date : 18-APR-2024 12:24
InstruID : SV6.i
LabSampID : 14DX-0.08

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

Reason Code:

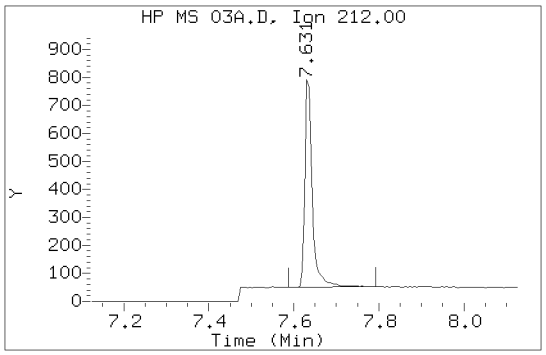
BEFORE

MASS
212
AREA
422
HEIGHT
53
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
212
AREA
890
HEIGHT
741
18-Apr-2024
15:51

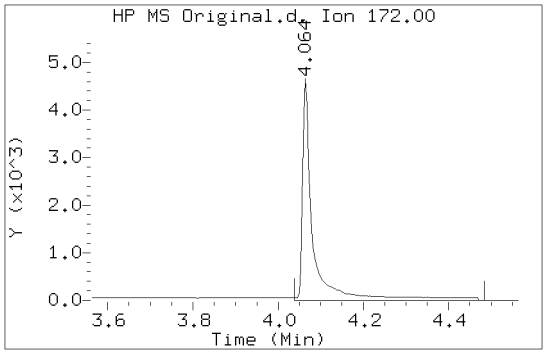


2-Fluorobiphenyl (321-60-8)

Reason Code:

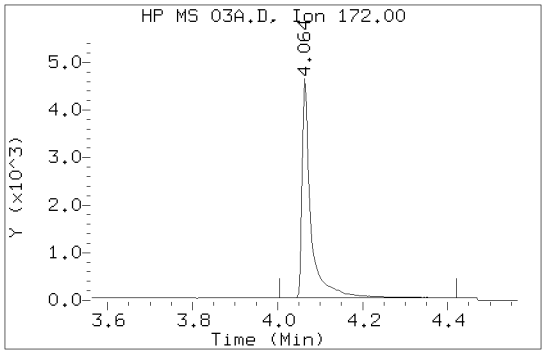
BEFORE

MASS
172
AREA
8151
HEIGHT
4659
18-Apr-2024
12:42
ALSHS
Server



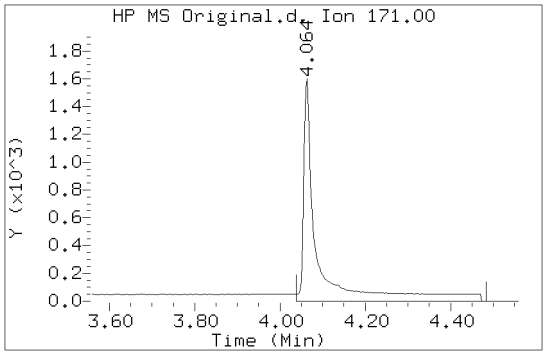
AFTER

MASS
172
AREA
6691
HEIGHT
4608
18-Apr-2024
15:51



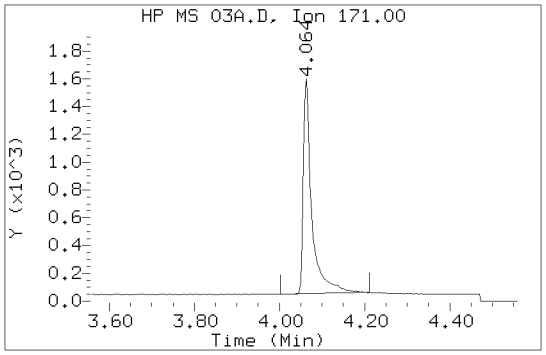
BEFORE

MASS
171
AREA
3618
HEIGHT
1599
18-Apr-2024
12:42
ALSHS
Server



AFTER

MASS
171
AREA
2124
HEIGHT
1543
18-Apr-2024
15:51



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D Page 1
Report Date: 18-Apr-2024 15:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Lab Smp Id: 14DX-0.01
Inj Date : 18-APR-2024 12:49
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.01
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 18-Apr-2024 15:51 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 12:24 Cal File: 03A.D
Als bottle: 4 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	2.089	2.089	(1.000)	3248	0.10000	(aM)
* 45 Naphthalene-d8	136	3.073	3.073	(1.000)	10308	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.497	(0.813)	262	0.01000	0.008466(M)
* 86 Acenaphthene-d10	164	4.665	4.665	(1.000)	6420	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.064	(0.871)	1018	0.01000	0.01037(M)
* 126 Phenanthrene-d10	188	6.066	6.066	(1.000)	12867	0.10000	(M)
* 182 Chrysene-d12	240	8.604	8.604	(1.000)	11333	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.636	7.636	(0.887)	2521	0.01000	0.01092(M)
* 198 Perylene-d12	264	10.195	10.195	(1.000)	12071	0.10000	(M)
1 1,4-Dioxane	58	0.838	0.838	(0.401)	87	0.01000	0.01250(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.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D

Date : 18-APR-2024 12:49

Client ID:

Instrument: SV6.i

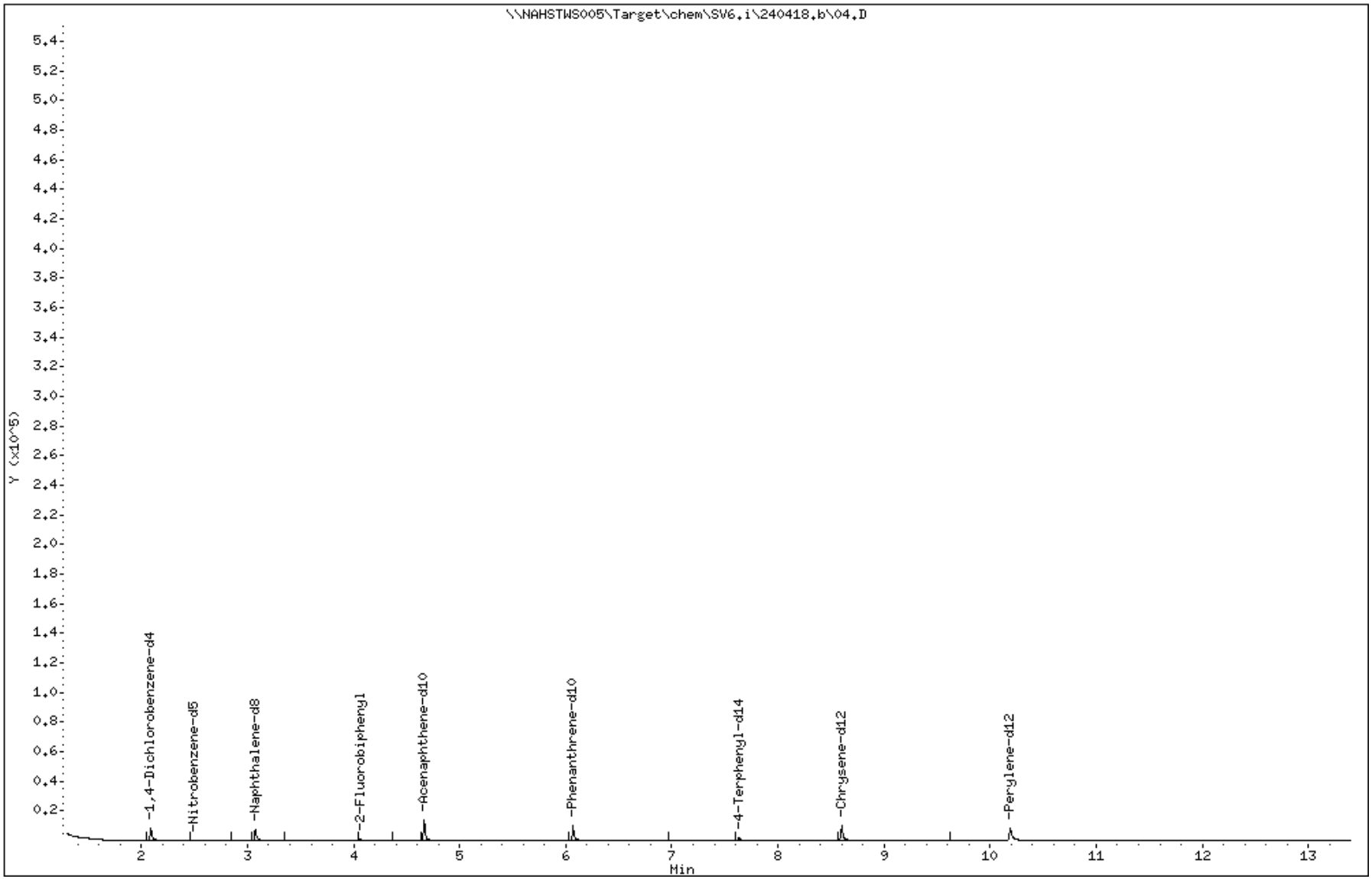
Sample Info: 14DX-0.01

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

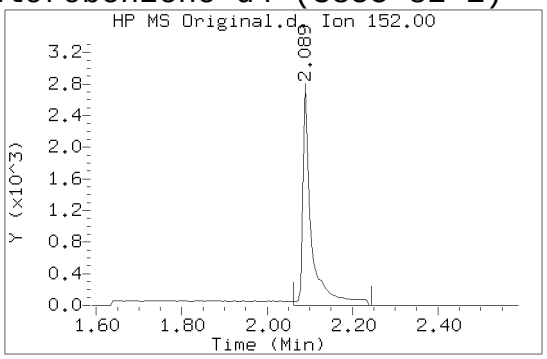


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

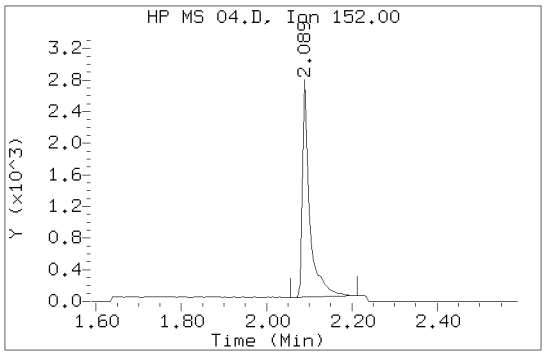
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

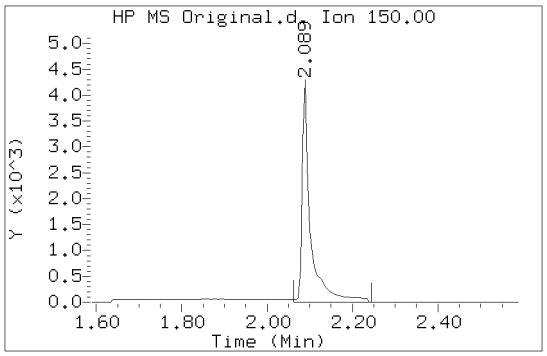
BEFORE
MASS
152
AREA
3912
HEIGHT
2804
18-Apr-2024
13:10
ALSHS
Server



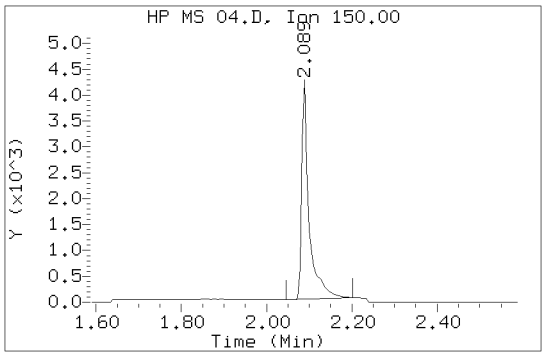
AFTER
MASS
152
AREA
3248
HEIGHT
2748
18-Apr-2024
15:51



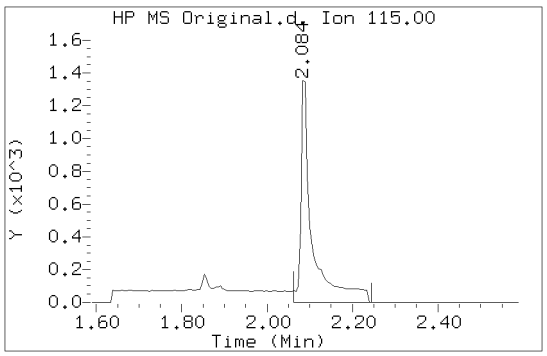
BEFORE
MASS
150
AREA
5830
HEIGHT
4294
18-Apr-2024
13:10
ALSHS
Server



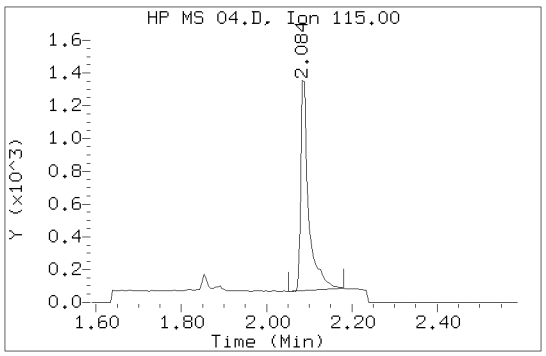
AFTER
MASS
150
AREA
5043
HEIGHT
4231
18-Apr-2024
15:51



BEFORE
MASS
115
AREA
2502
HEIGHT
1353
18-Apr-2024
13:10
ALSHS
Server



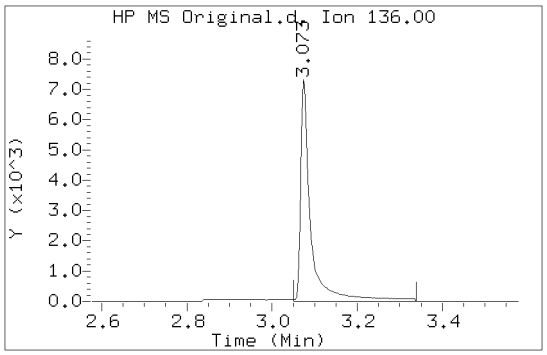
AFTER
MASS
115
AREA
1663
HEIGHT
1280
18-Apr-2024
15:51



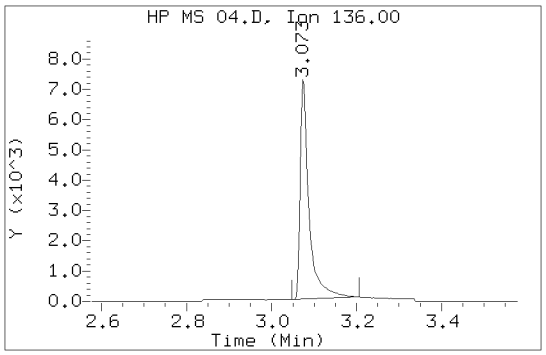
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
12033
HEIGHT
7318
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
136
AREA
10308
HEIGHT
7248
18-Apr-2024
15:51



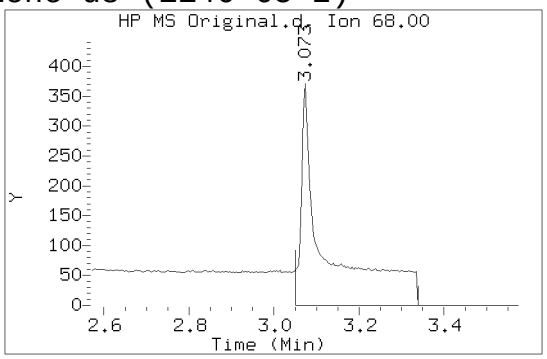
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Naphthalene-d8 (1146-65-2)

Reason Code:

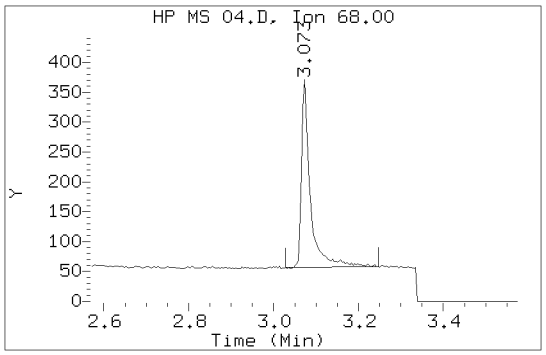
BEFORE

MASS
68
AREA
1444
HEIGHT
371
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
68
AREA
448
HEIGHT
313
18-Apr-2024
15:51

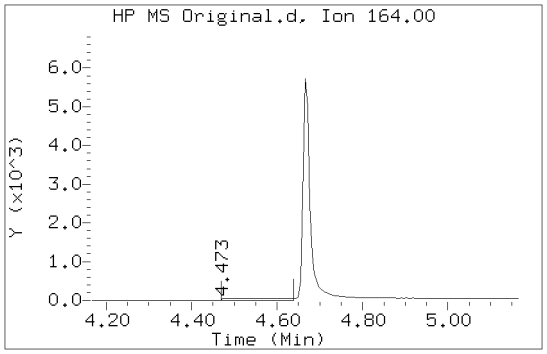


Acenaphthene-d10 (15067-26-2)

Reason Code:

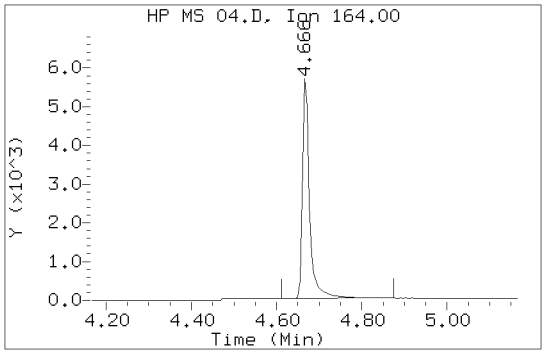
BEFORE

MASS
164
AREA
515
HEIGHT
52
18-Apr-2024
13:10
ALSHS
Server



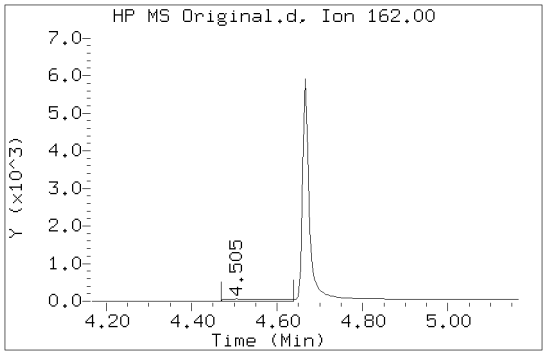
AFTER

MASS
164
AREA
6420
HEIGHT
5670
18-Apr-2024
15:51



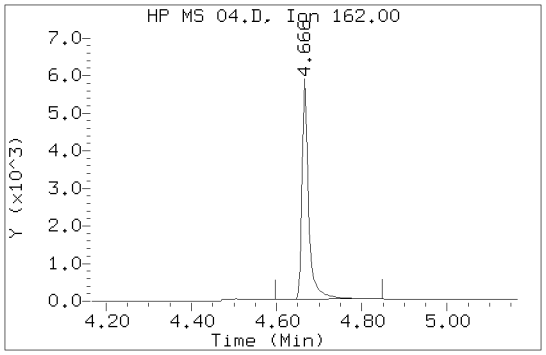
BEFORE

MASS
162
AREA
528
HEIGHT
60
18-Apr-2024
13:10
ALSHS
Server



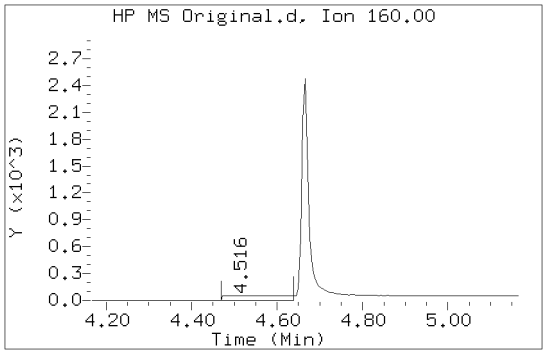
AFTER

MASS
162
AREA
6187
HEIGHT
5861
18-Apr-2024
15:51



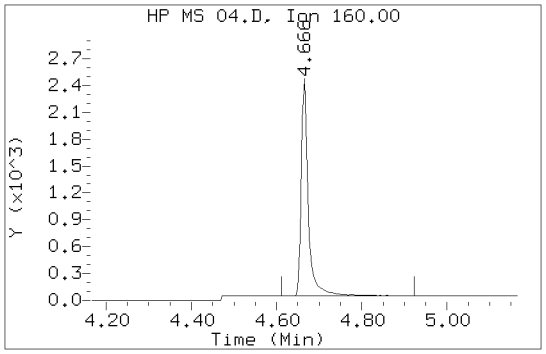
BEFORE

MASS
160
AREA
499
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
160
AREA
2756
HEIGHT
2428
18-Apr-2024
15:51

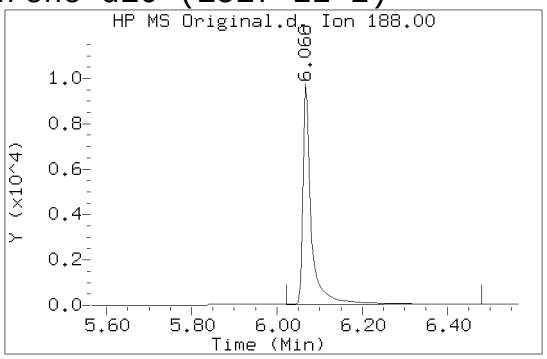


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

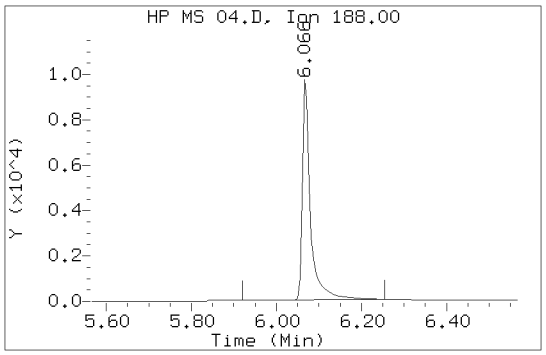
Phenanthrene-d10 (1517-22-2)

Reason Code:

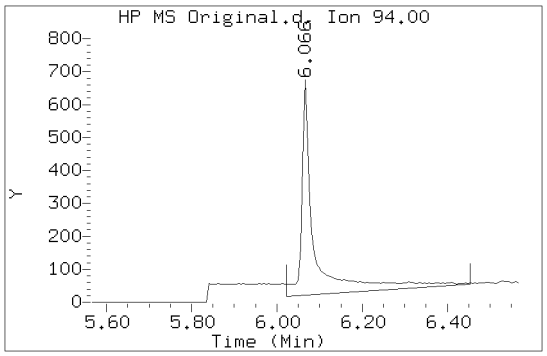
BEFORE
MASS
188
AREA
13965
HEIGHT
9748
18-Apr-2024
13:10
ALSHS
Server



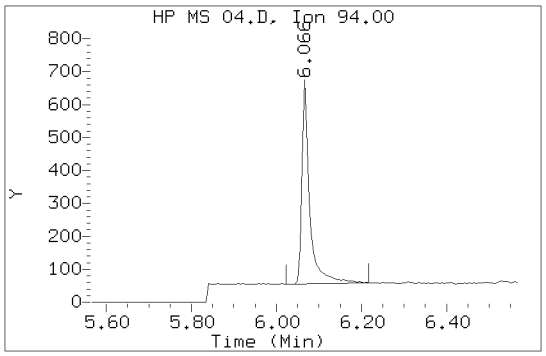
AFTER
MASS
188
AREA
12867
HEIGHT
9702
18-Apr-2024
15:51



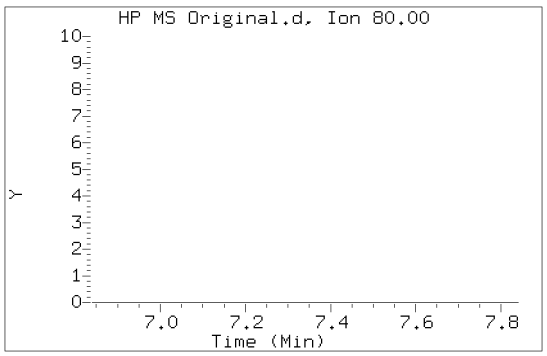
BEFORE
MASS
94
AREA
1364
HEIGHT
654
18-Apr-2024
13:10
ALSHS
Server



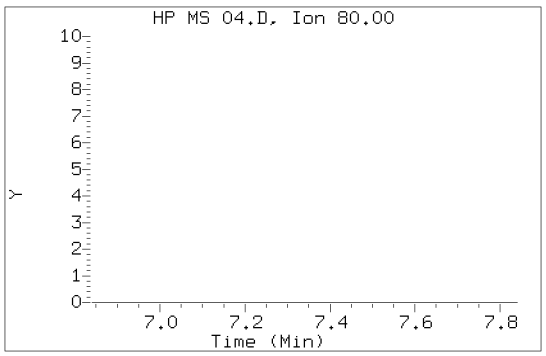
AFTER
MASS
94
AREA
793
HEIGHT
619
18-Apr-2024
15:51



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



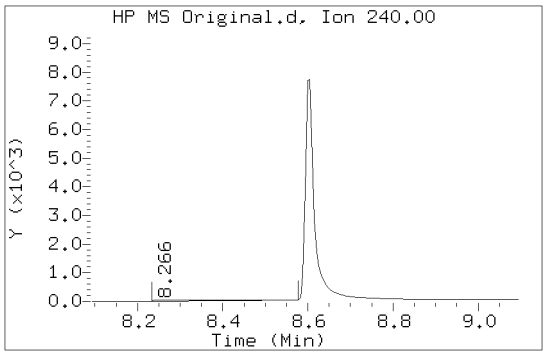
AFTER
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:51



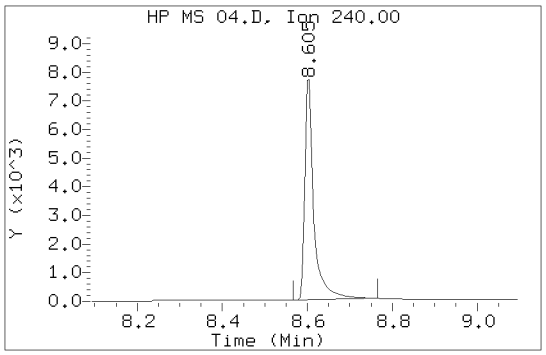
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
456
HEIGHT
48
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
240
AREA
11333
HEIGHT
7679
18-Apr-2024
15:51

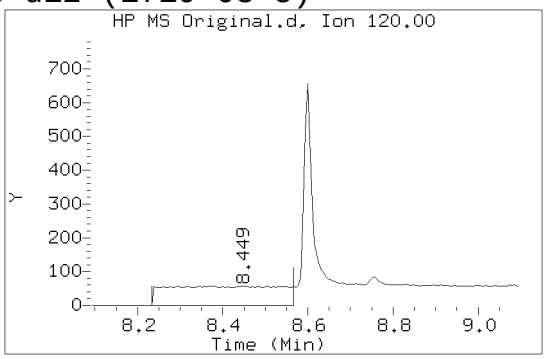


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

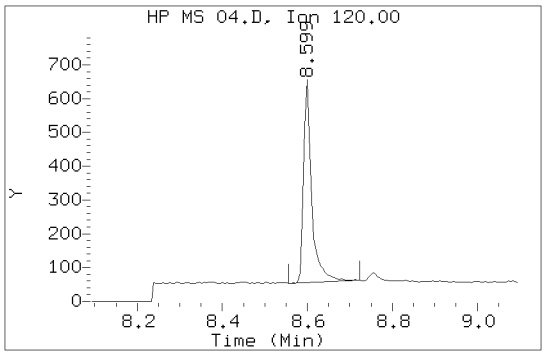
Chrysene-d12 (1719-03-5)

Reason Code:

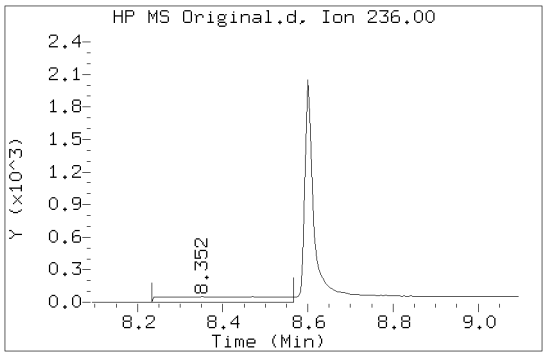
BEFORE
MASS
120
AREA
1092
HEIGHT
57
18-Apr-2024
13:10
ALSHS
Server



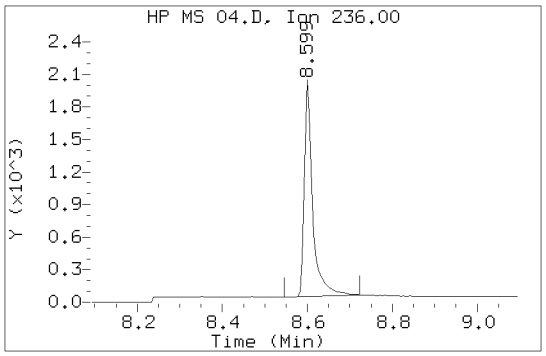
AFTER
MASS
120
AREA
786
HEIGHT
599
18-Apr-2024
15:51



BEFORE
MASS
236
AREA
988
HEIGHT
51
18-Apr-2024
13:10
ALSHS
Server



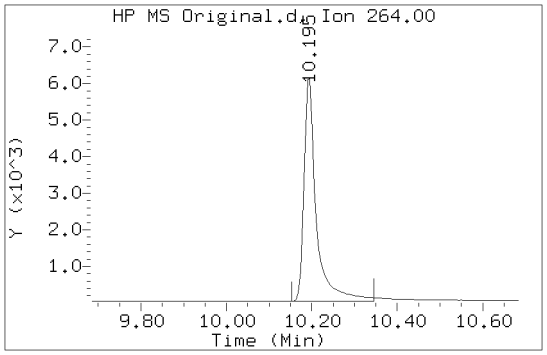
AFTER
MASS
236
AREA
2680
HEIGHT
1995
18-Apr-2024
15:51



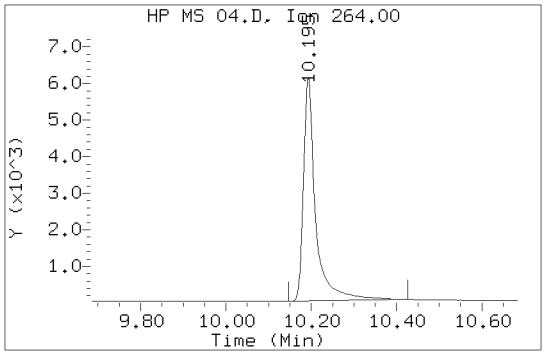
Perylene-d12 (1520-96-3)

Reason Code:

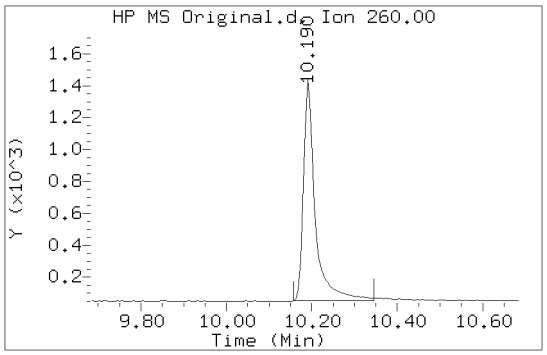
BEFORE
MASS
264
AREA
12161
HEIGHT
6073
18-Apr-2024
13:10
ALSHS
Server



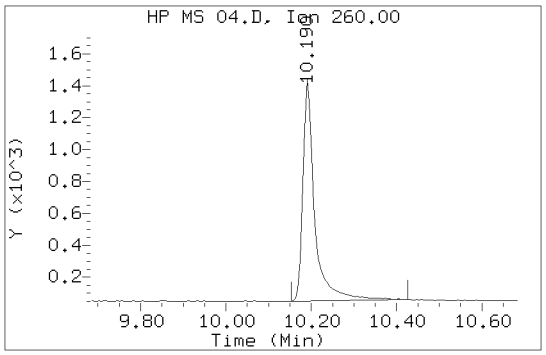
AFTER
MASS
264
AREA
12071
HEIGHT
6065
18-Apr-2024
15:51



BEFORE
MASS
260
AREA
2633
HEIGHT
1385
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
260
AREA
2644
HEIGHT
1385
18-Apr-2024
15:51



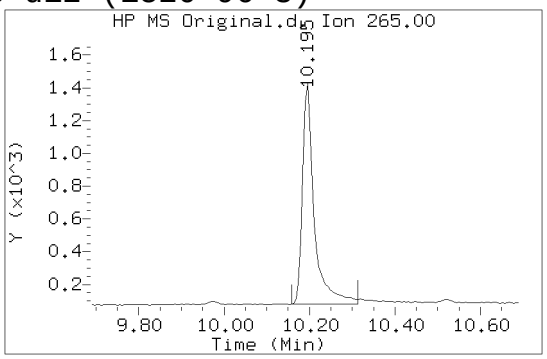
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

Perylene-d12 (1520-96-3)

Reason Code:

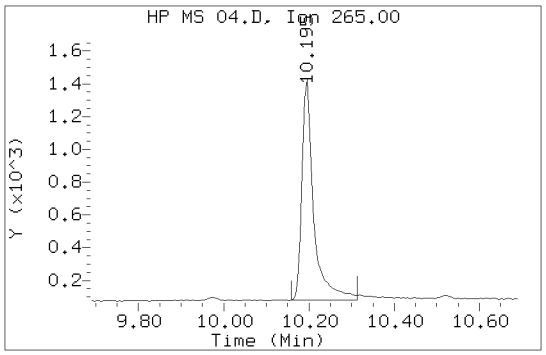
BEFORE

MASS
265
AREA
2550
HEIGHT
1343
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
265
AREA
2550
HEIGHT
1343
18-Apr-2024
15:51

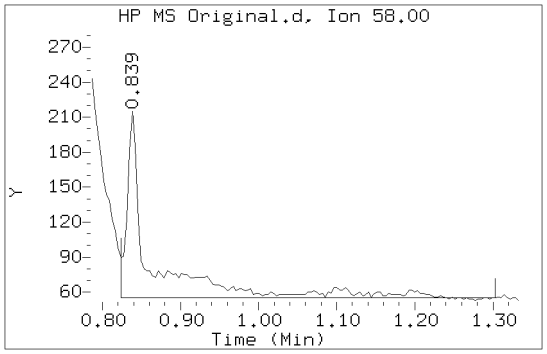


1,4-Dioxane ()

Reason Code:

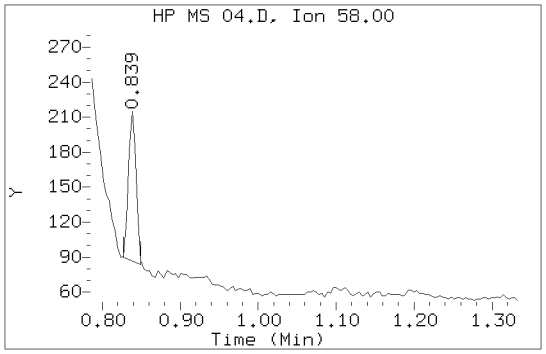
BEFORE

MASS
58
AREA
329
HEIGHT
160
18-Apr-2024
13:10
ALSHS
Server



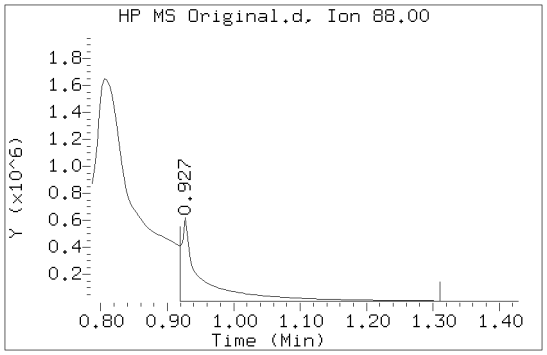
AFTER

MASS
58
AREA
87
HEIGHT
128
18-Apr-2024
15:51



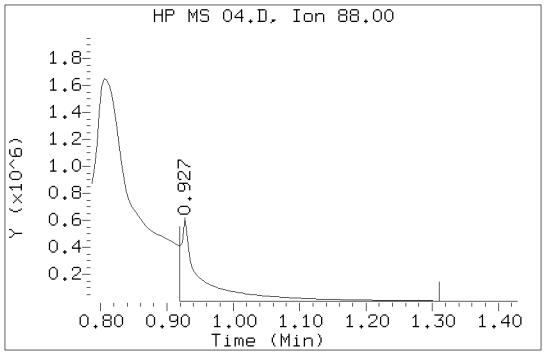
BEFORE

MASS
88
AREA
1289287
HEIGHT
619255
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
88
AREA
1289287
HEIGHT
619255
18-Apr-2024
15:51

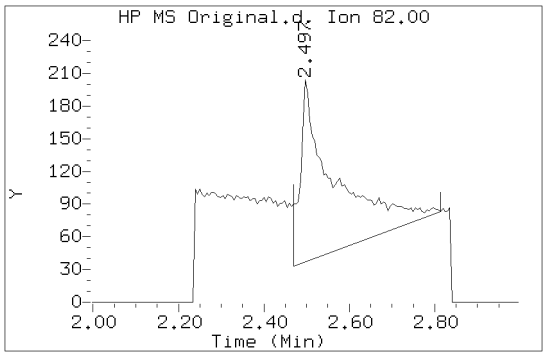


Nitrobenzene-d5 (4165-60-0)

Reason Code:

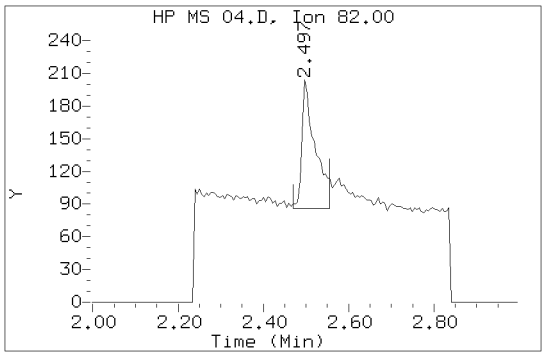
BEFORE

MASS
82
AREA
946
HEIGHT
167
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
82
AREA
262
HEIGHT
118
18-Apr-2024
15:51

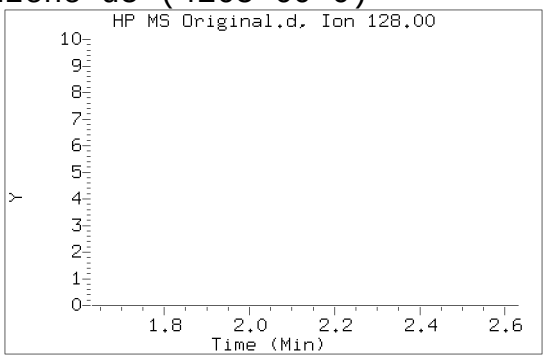


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

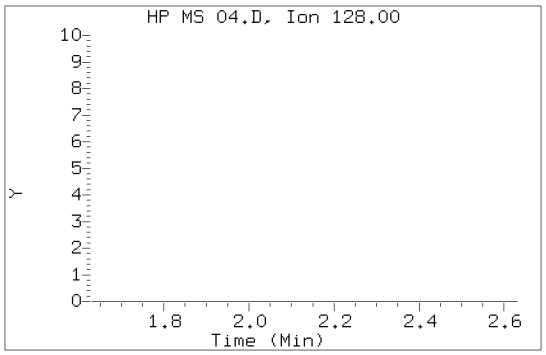
Nitrobenzene-d5 (4165-60-0)

Reason Code:

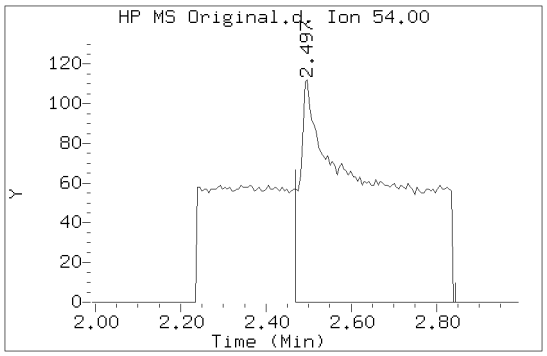
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:10
ALSHS
Server



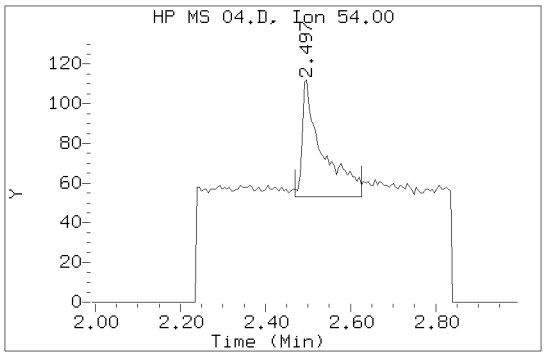
AFTER
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:51



BEFORE
MASS
54
AREA
1431
HEIGHT
112
18-Apr-2024
13:10
ALSHS
Server



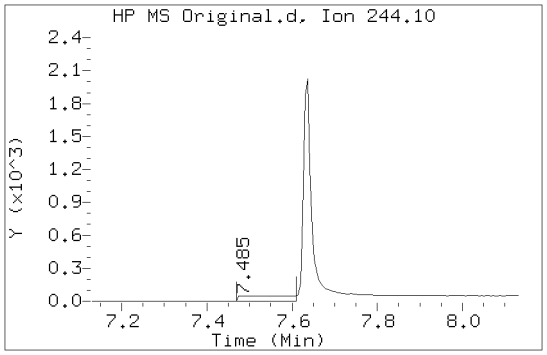
AFTER
MASS
54
AREA
197
HEIGHT
59
18-Apr-2024
15:51



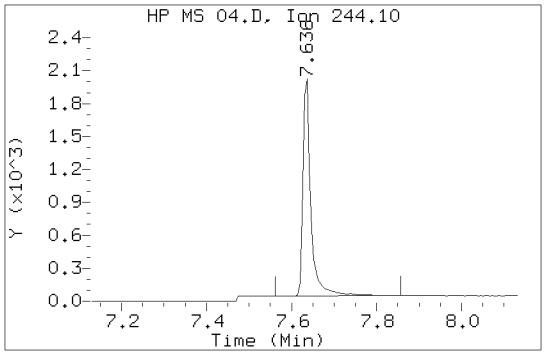
4-Terphenyl-d14 (1718-51-0)

Reason Code:

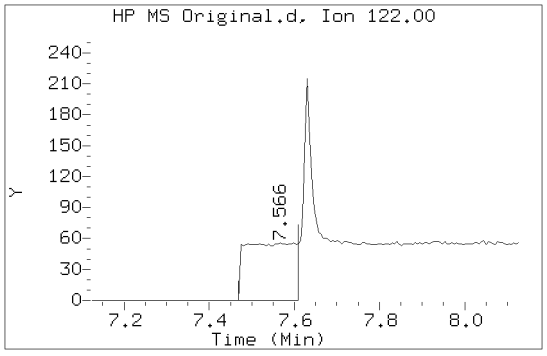
BEFORE
MASS
244.1
AREA
404
HEIGHT
49
18-Apr-2024
13:10
ALSHS
Server



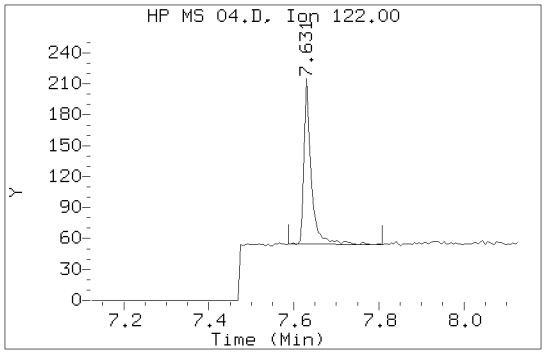
AFTER
MASS
244.1
AREA
2521
HEIGHT
1975
18-Apr-2024
15:51



BEFORE
MASS
122
AREA
456
HEIGHT
56
18-Apr-2024
13:10
ALSHS
Server



AFTER
MASS
122
AREA
187
HEIGHT
160
18-Apr-2024
15:51



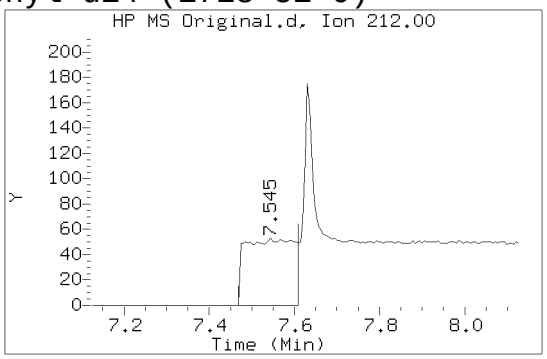
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\04.D
Inj Date : 18-APR-2024 12:49
InstruID : SV6.i
LabSampID : 14DX-0.01

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

Reason Code:

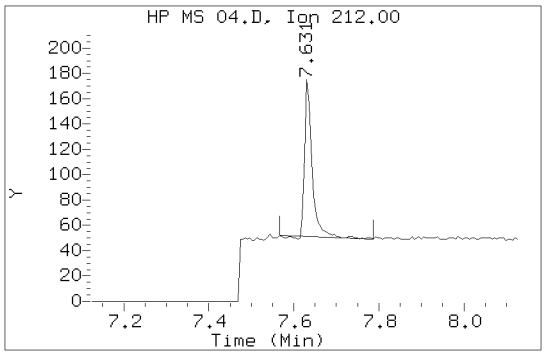
BEFORE

MASS
212
AREA
418
HEIGHT
53
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
212
AREA
146
HEIGHT
123
18-Apr-2024
15:51

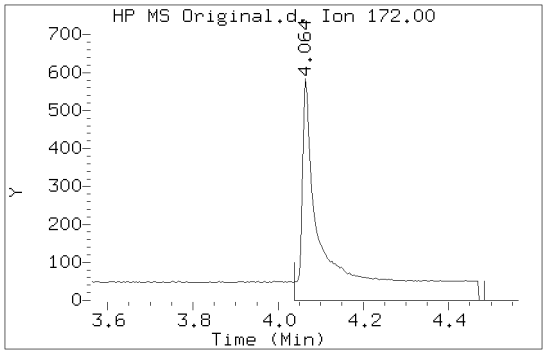


2-Fluorobiphenyl (321-60-8)

Reason Code:

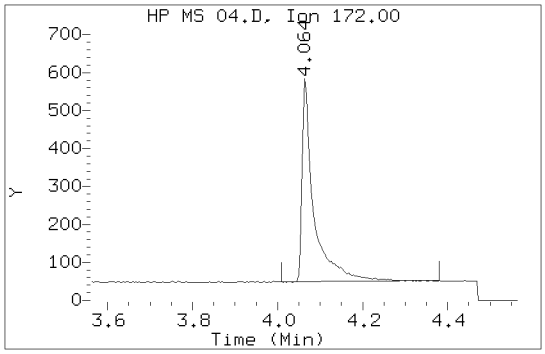
BEFORE

MASS
172
AREA
2355
HEIGHT
584
18-Apr-2024
13:10
ALSHS
Server



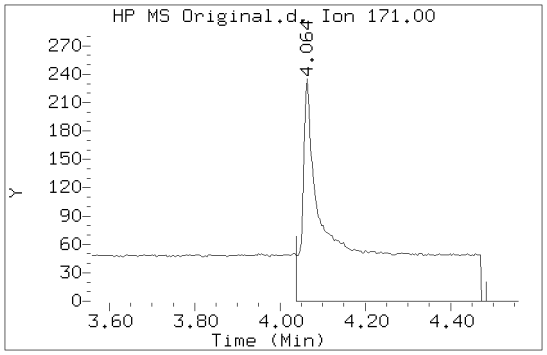
AFTER

MASS
172
AREA
1018
HEIGHT
534
18-Apr-2024
15:51



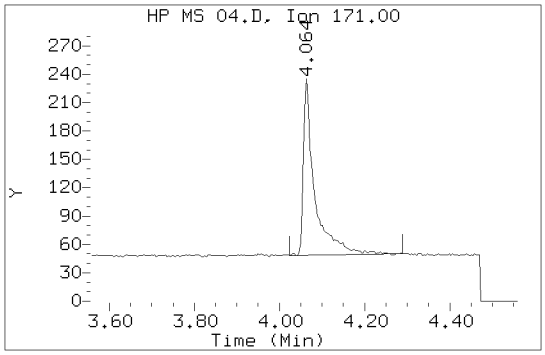
BEFORE

MASS
171
AREA
1637
HEIGHT
235
18-Apr-2024
13:10
ALSHS
Server



AFTER

MASS
171
AREA
346
HEIGHT
186
18-Apr-2024
15:51



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D Page 1
Report Date: 18-Apr-2024 15:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Lab Smp Id: 14DX-0.03
Inj Date : 18-APR-2024 13:07
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.03
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 18-Apr-2024 15:51 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 12:49 Cal File: 04.D
Als bottle: 5 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	2.088	2.088	(1.000)	2278	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	6857	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.496	(0.812)	570	0.03000	0.02769(M)
* 86 Acenaphthene-d10	164	4.665	4.665	(1.000)	3891	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.063	(0.871)	1731	0.03000	0.02910(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	7578	0.10000	(M)
* 182 Chrysene-d12	240	8.598	8.598	(1.000)	6445	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	3857	0.03000	0.02938(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	6635	0.10000	
1 1,4-Dioxane	58	0.827	0.827	(0.396)	138	0.03000	0.02828(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.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D

Date : 18-APR-2024 13:07

Client ID:

Instrument: SV6.i

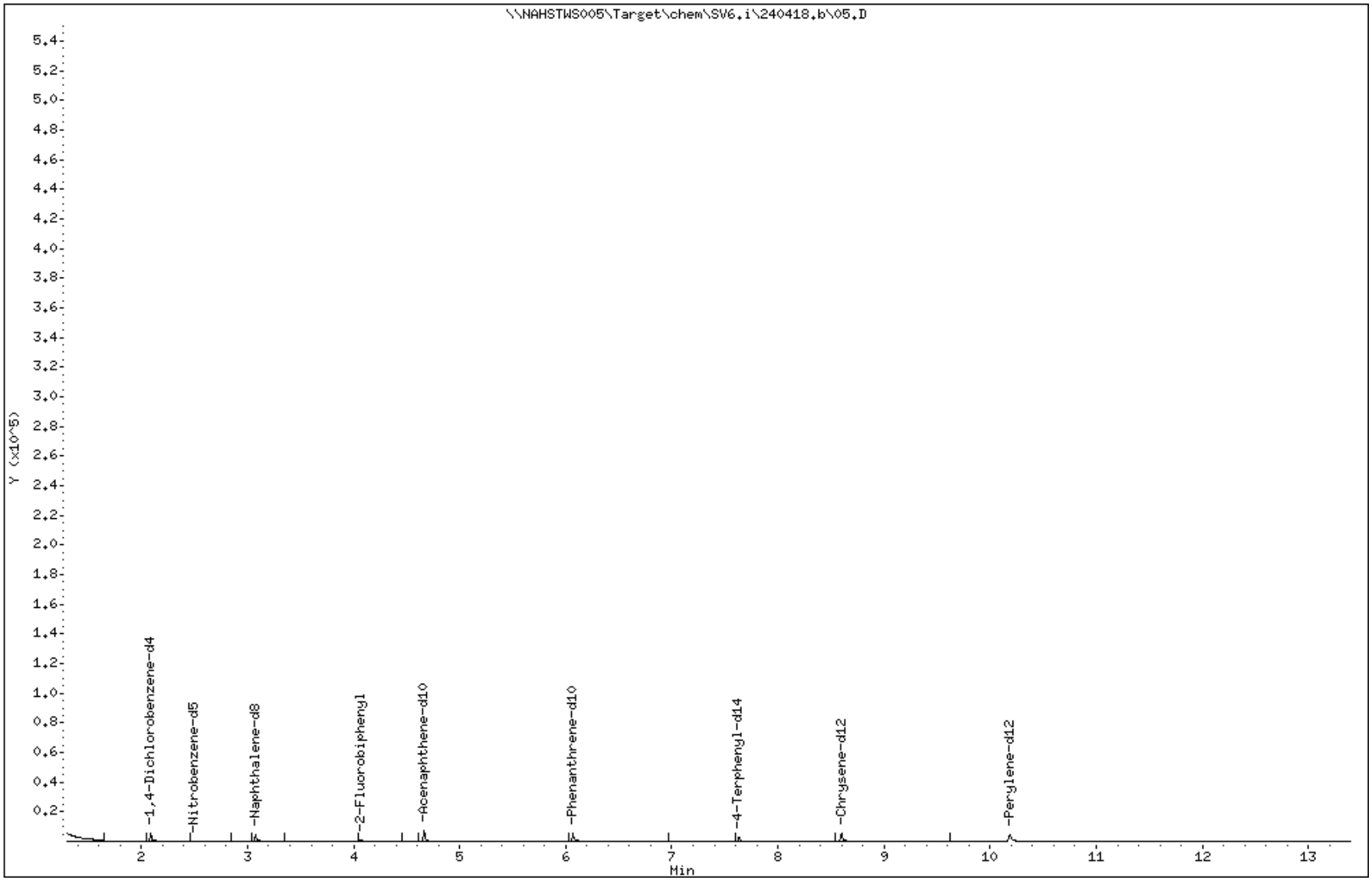
Sample Info: 14DX-0.03

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



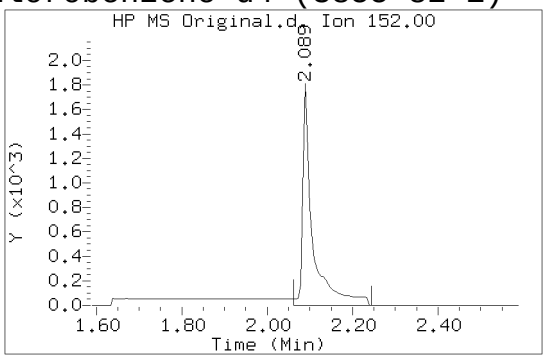
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

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

Reason Code:

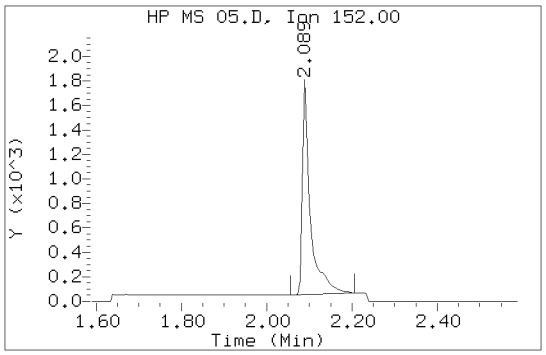
BEFORE

MASS
152
AREA
2919
HEIGHT
1810
18-Apr-2024
13:21
ALSHS
Server



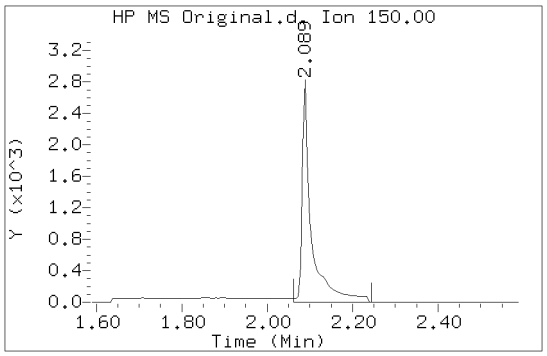
AFTER

MASS
152
AREA
2278
HEIGHT
1755
18-Apr-2024
15:51



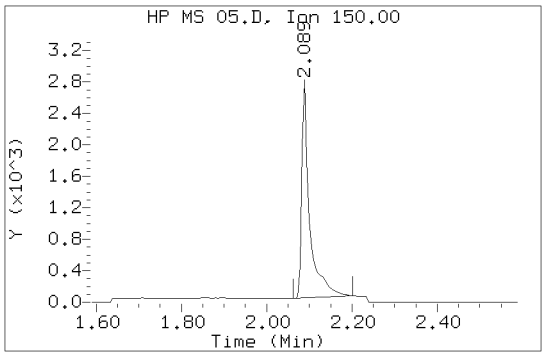
BEFORE

MASS
150
AREA
4252
HEIGHT
2826
18-Apr-2024
13:21
ALSHS
Server



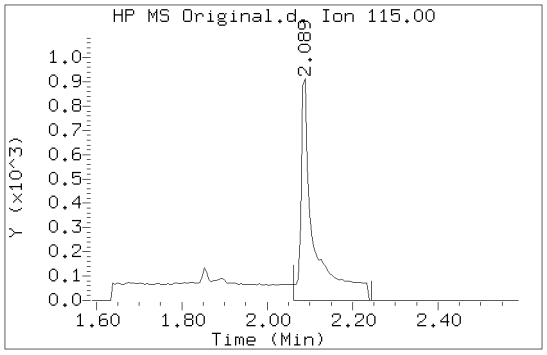
AFTER

MASS
150
AREA
3521
HEIGHT
2768
18-Apr-2024
15:51



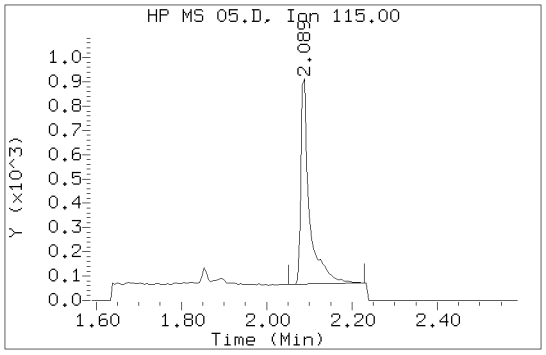
BEFORE

MASS
115
AREA
1932
HEIGHT
913
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
115
AREA
1207
HEIGHT
846
18-Apr-2024
15:51

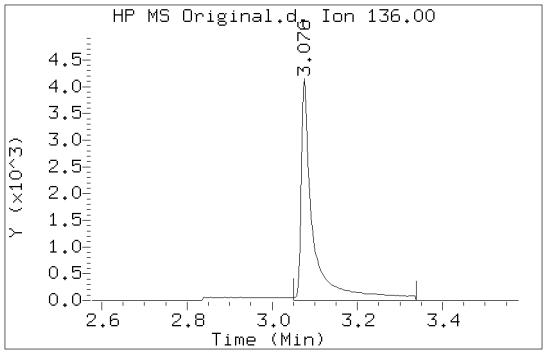


Naphthalene-d8 (1146-65-2)

Reason Code:

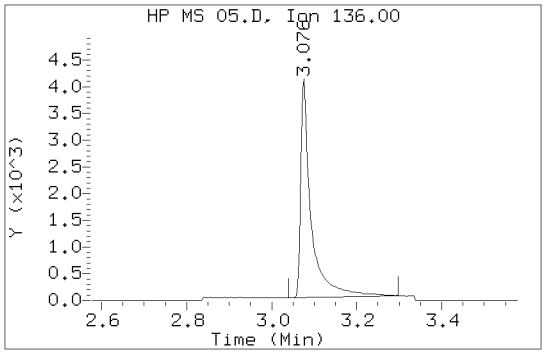
BEFORE

MASS
136
AREA
8079
HEIGHT
4148
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
136
AREA
6857
HEIGHT
4091
18-Apr-2024
15:51



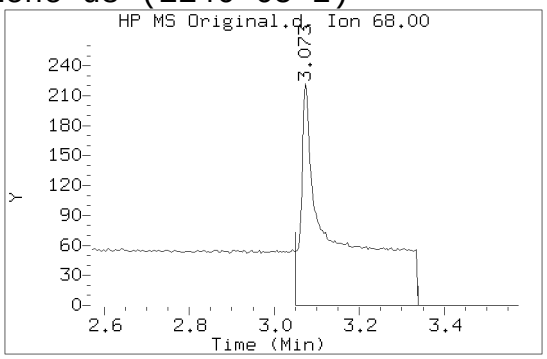
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Naphthalene-d8 (1146-65-2)

Reason Code:

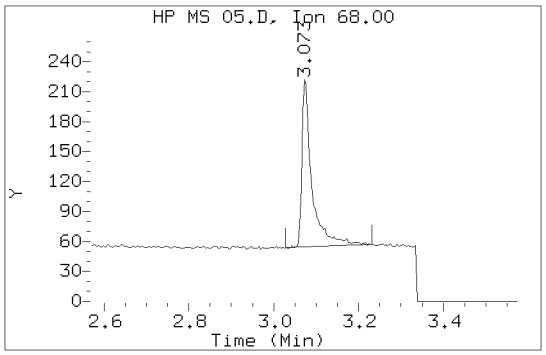
BEFORE

MASS
68
AREA
1234
HEIGHT
222
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
68
AREA
270
HEIGHT
167
18-Apr-2024
15:51

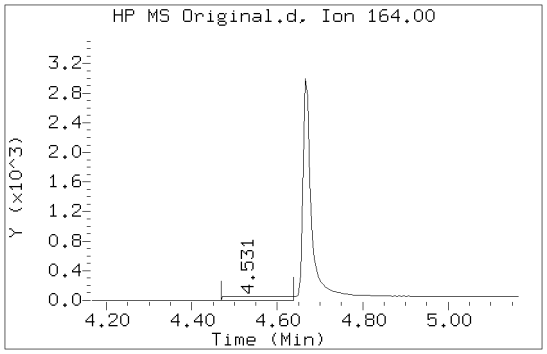


Acenaphthene-d10 (15067-26-2)

Reason Code:

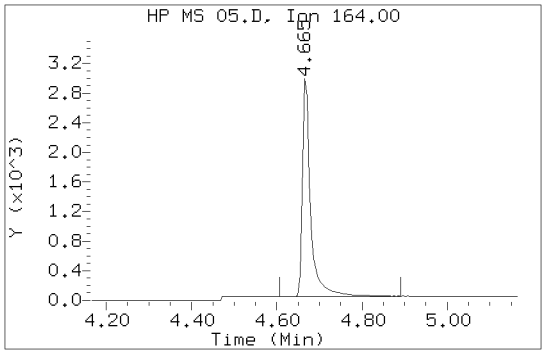
BEFORE

MASS
164
AREA
504
HEIGHT
51
18-Apr-2024
13:21
ALSHS
Server



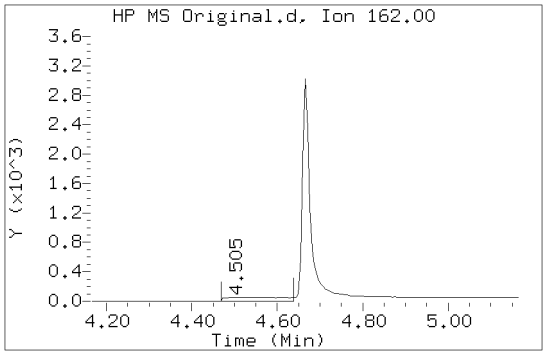
AFTER

MASS
164
AREA
3891
HEIGHT
2944
18-Apr-2024
15:51



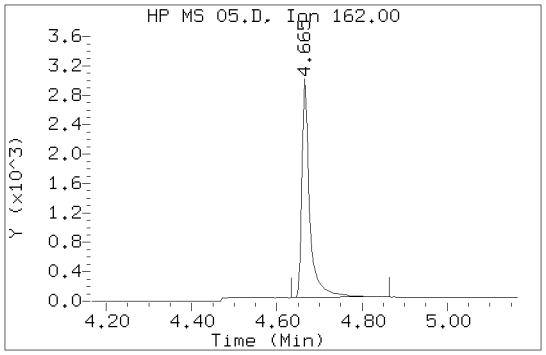
BEFORE

MASS
162
AREA
505
HEIGHT
54
18-Apr-2024
13:21
ALSHS
Server



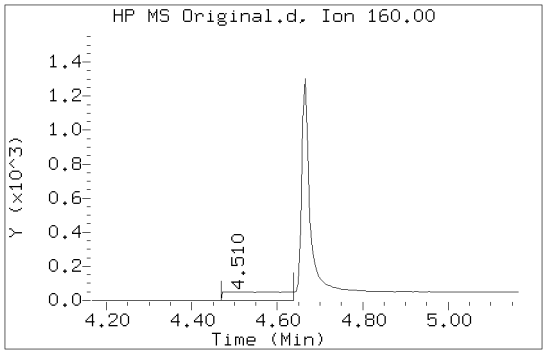
AFTER

MASS
162
AREA
3749
HEIGHT
2972
18-Apr-2024
15:51



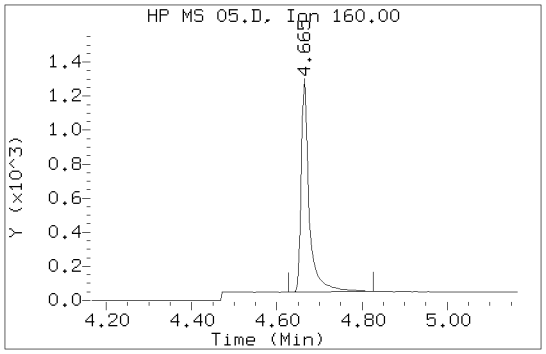
BEFORE

MASS
160
AREA
490
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
160
AREA
1625
HEIGHT
1253
18-Apr-2024
15:51



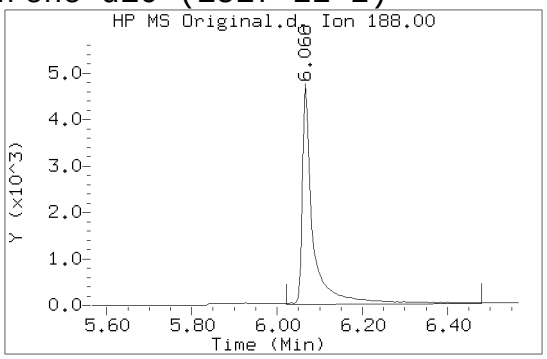
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

Phenanthrene-d10 (1517-22-2)

Reason Code:

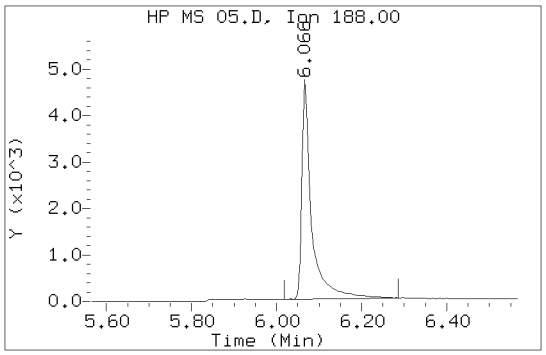
BEFORE

MASS
188
AREA
8422
HEIGHT
4756
18-Apr-2024
13:21
ALSHS
Server



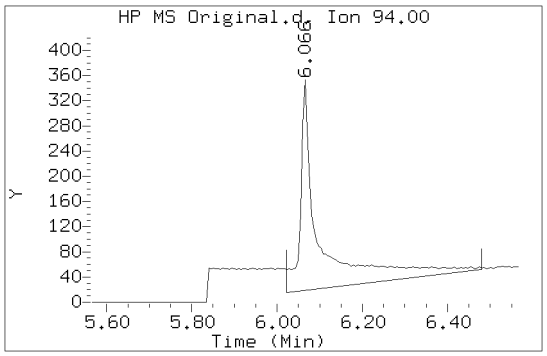
AFTER

MASS
188
AREA
7578
HEIGHT
4722
18-Apr-2024
15:51



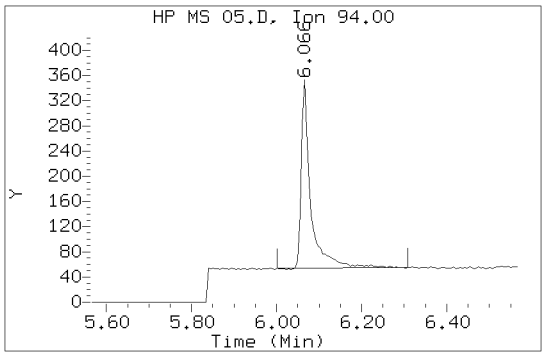
BEFORE

MASS
94
AREA
1045
HEIGHT
334
18-Apr-2024
13:21
ALSHS
Server



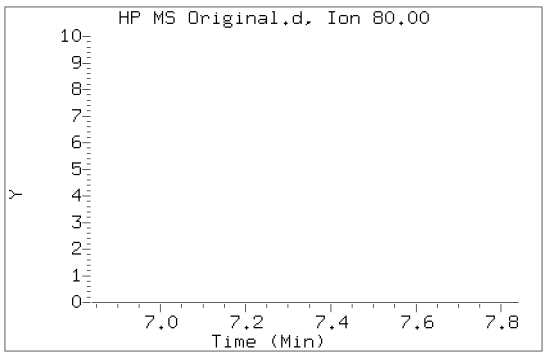
AFTER

MASS
94
AREA
460
HEIGHT
298
18-Apr-2024
15:51



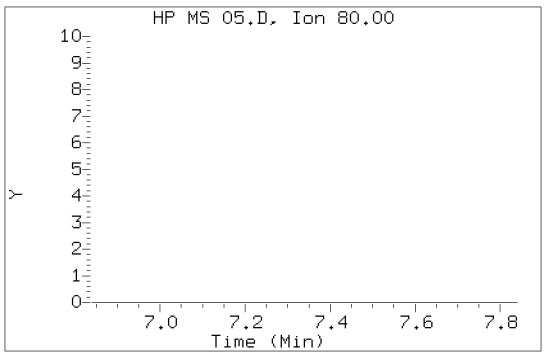
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:51

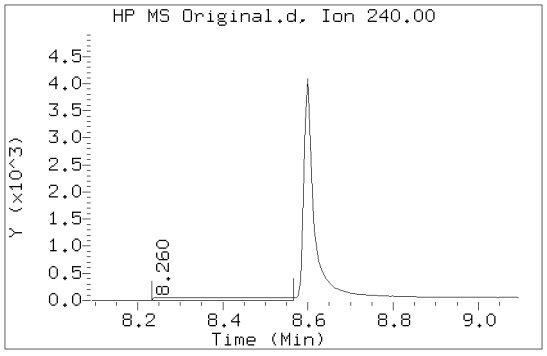


Chrysene-d12 (1719-03-5)

Reason Code:

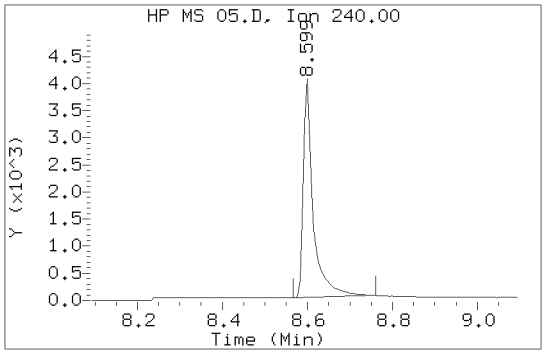
BEFORE

MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
240
AREA
6445
HEIGHT
4036
18-Apr-2024
15:51

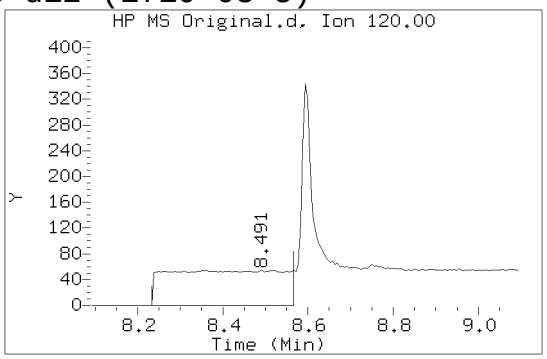


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

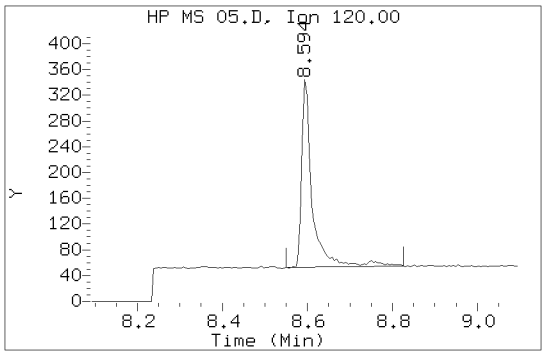
Chrysene-d12 (1719-03-5)

Reason Code:

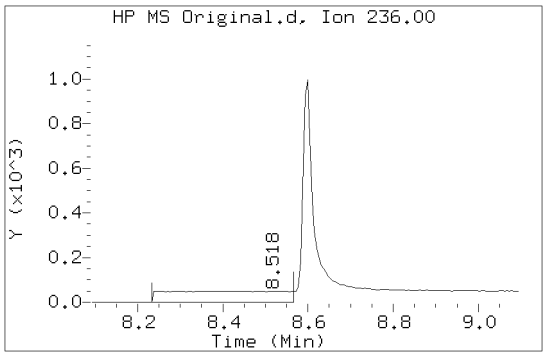
BEFORE
MASS
120
AREA
1053
HEIGHT
55
18-Apr-2024
13:21
ALSHS
Server



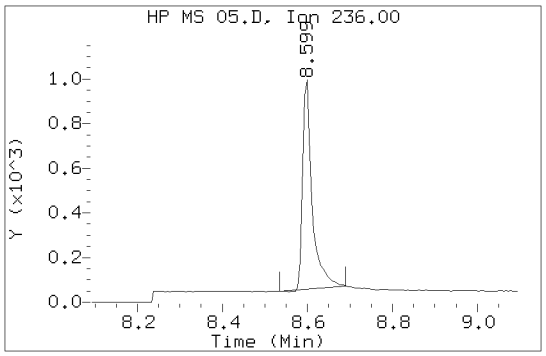
AFTER
MASS
120
AREA
500
HEIGHT
290
18-Apr-2024
15:51



BEFORE
MASS
236
AREA
963
HEIGHT
50
18-Apr-2024
13:21
ALSHS
Server



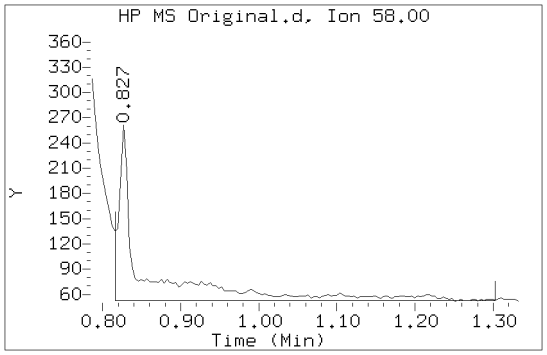
AFTER
MASS
236
AREA
1446
HEIGHT
938
18-Apr-2024
15:51



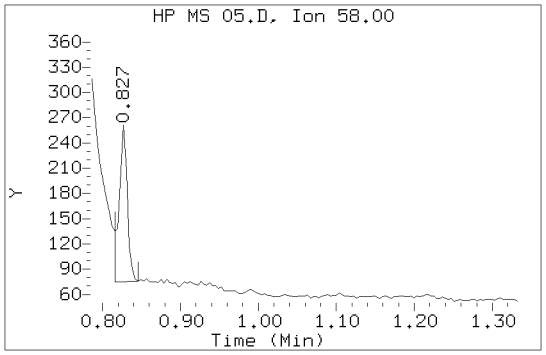
1,4-Dioxane ()

Reason Code:

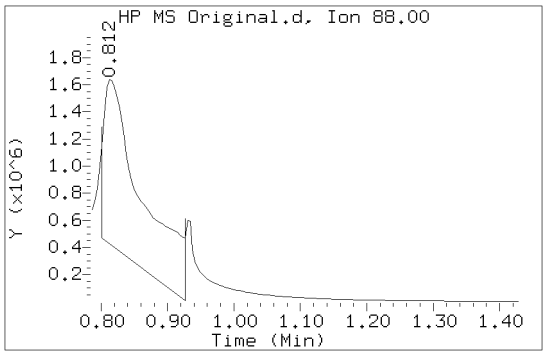
BEFORE
MASS
58
AREA
414
HEIGHT
208
18-Apr-2024
13:21
ALSHS
Server



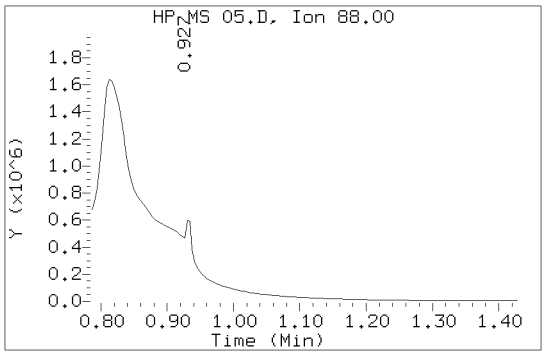
AFTER
MASS
58
AREA
138
HEIGHT
185
18-Apr-2024
15:51



BEFORE
MASS
88
AREA
4998904
HEIGHT
1209480
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
15:51

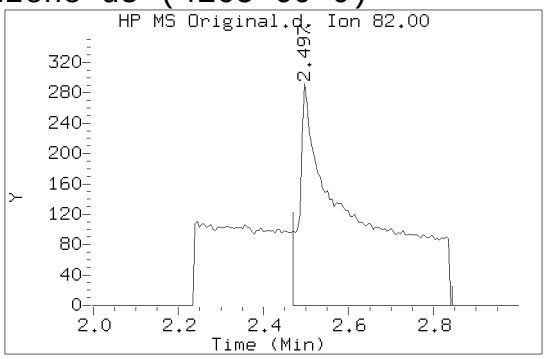


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

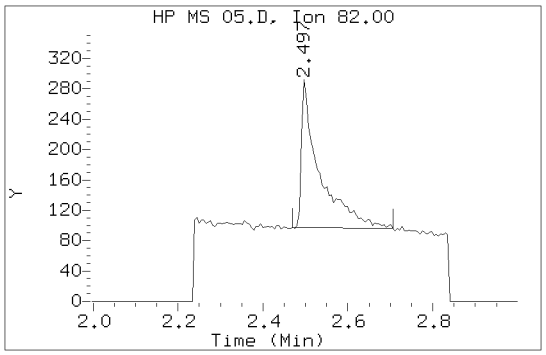
Nitrobenzene-d5 (4165-60-0)

Reason Code:

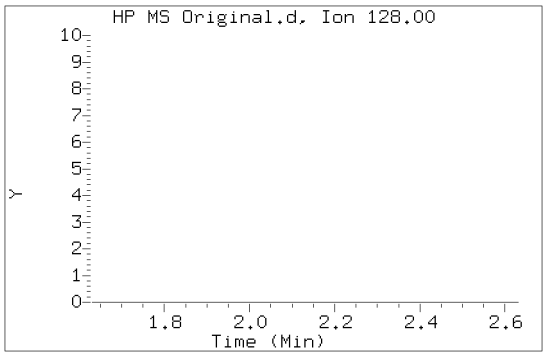
BEFORE
MASS
82
AREA
2662
HEIGHT
292
18-Apr-2024
13:21
ALSHS
Server



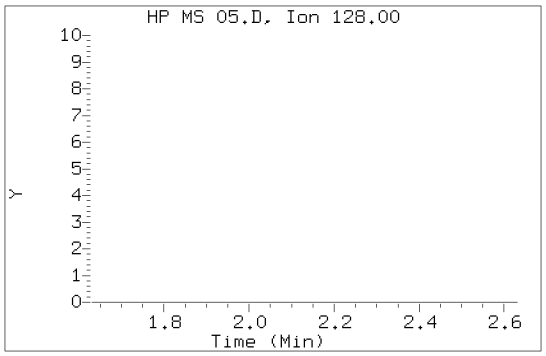
AFTER
MASS
82
AREA
570
HEIGHT
195
18-Apr-2024
15:51



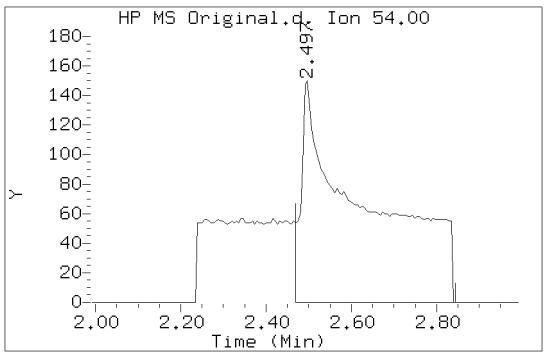
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:21
ALSHS
Server



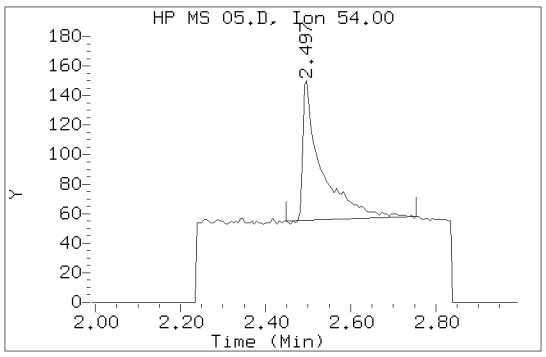
AFTER
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:51



BEFORE
MASS
54
AREA
1538
HEIGHT
150
18-Apr-2024
13:21
ALSHS
Server



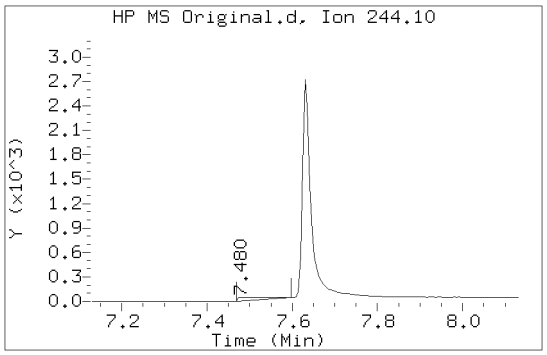
AFTER
MASS
54
AREA
289
HEIGHT
94
18-Apr-2024
15:51



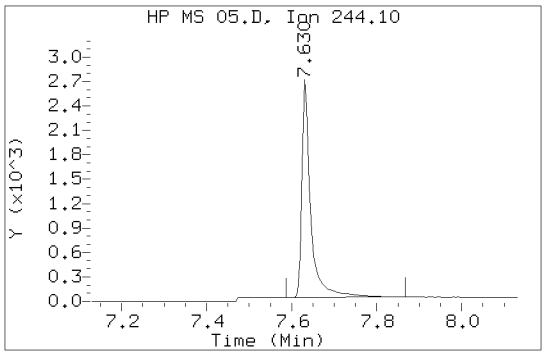
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
174
HEIGHT
44
18-Apr-2024
13:21
ALSHS
Server



AFTER
MASS
244.1
AREA
3857
HEIGHT
2674
18-Apr-2024
15:51



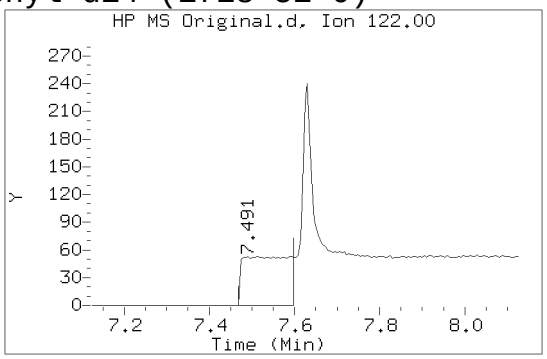
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\05.D
Inj Date : 18-APR-2024 13:07
InstruID : SV6.i
LabSampID : 14DX-0.03

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

Reason Code:

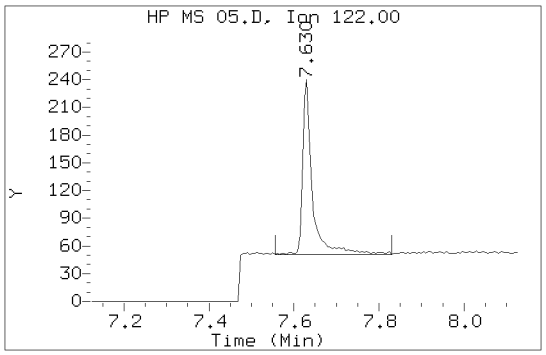
BEFORE

MASS
122
AREA
401
HEIGHT
53
18-Apr-2024
13:21
ALSHS
Server



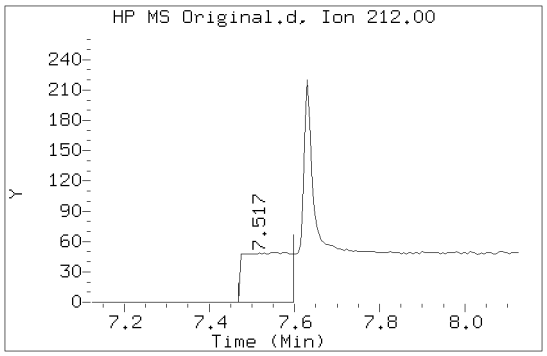
AFTER

MASS
122
AREA
296
HEIGHT
189
18-Apr-2024
15:51



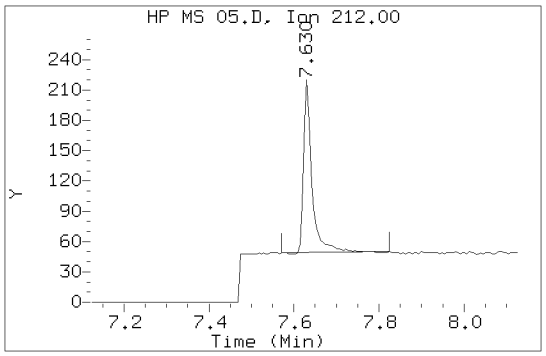
BEFORE

MASS
212
AREA
374
HEIGHT
49
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
212
AREA
227
HEIGHT
170
18-Apr-2024
15:51

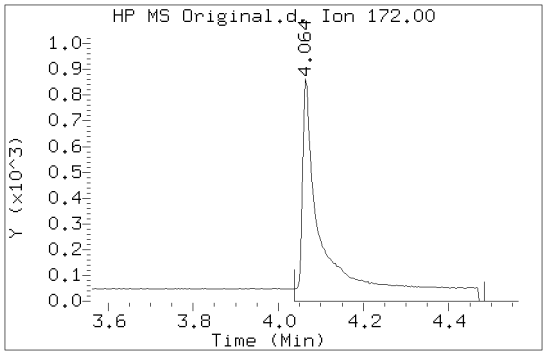


2-Fluorobiphenyl (321-60-8)

Reason Code:

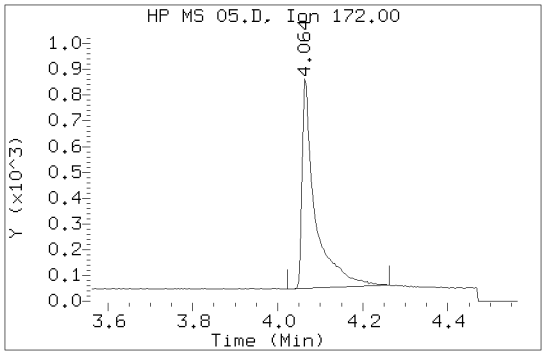
BEFORE

MASS
172
AREA
3193
HEIGHT
863
18-Apr-2024
13:21
ALSHS
Server



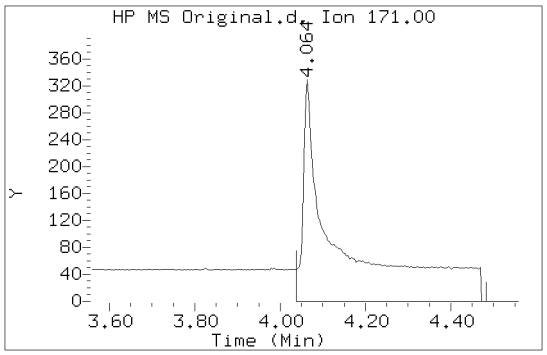
AFTER

MASS
172
AREA
1731
HEIGHT
812
18-Apr-2024
15:51



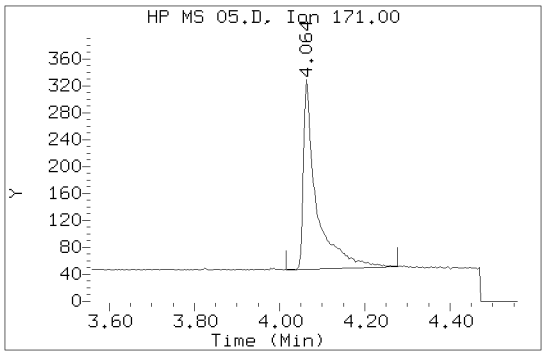
BEFORE

MASS
171
AREA
1906
HEIGHT
329
18-Apr-2024
13:21
ALSHS
Server



AFTER

MASS
171
AREA
602
HEIGHT
281
18-Apr-2024
15:51



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D Page 1
Report Date: 18-Apr-2024 15:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Lab Smp Id: 14DX-0.05
Inj Date : 18-APR-2024 13:25
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.05
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 18-Apr-2024 15:51 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 13:07 Cal File: 05.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

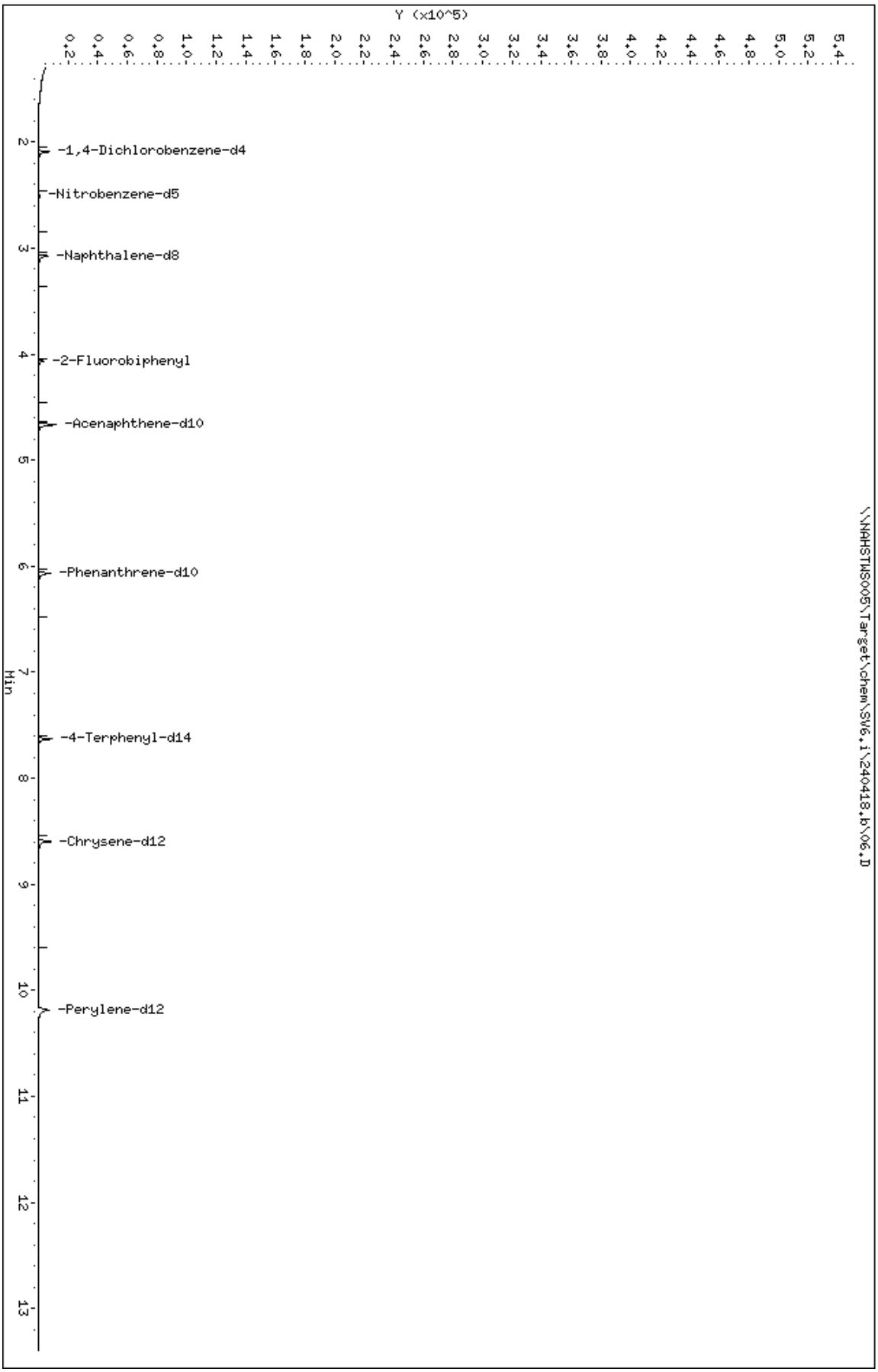
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.094	(1.000)	3152	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9502	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.497	(0.812)	1589	0.05000	0.05570(M)
* 86 Acenaphthene-d10	164	4.665	4.665	(1.000)	6015	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.064	(0.871)	4588	0.05000	0.04990(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	11597	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	10029	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	10047	0.05000	0.04918(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	10408	0.10000	(M)
1 1,4-Dioxane	58	0.849	0.849	(0.406)	339	0.05000	0.05021(M)

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\SW6,i\240418,b\06,D
Date : 18-APR-2024 13:25
Client ID:
Sample Info: 14DX-0,05
Purge Volume: 1000,0
Column phase: RTX-5SIL MS

Instrument: SW6,i
Operator: LG
Column diameter: 0,28

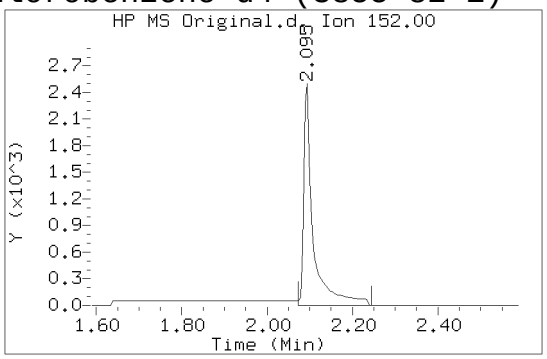


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

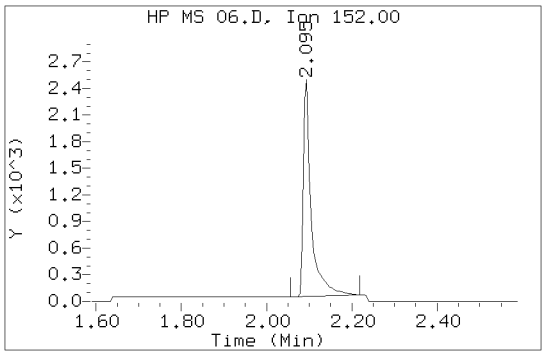
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

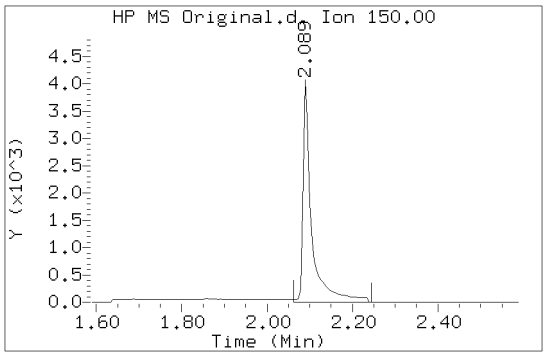
BEFORE
MASS
152
AREA
3790
HEIGHT
2499
18-Apr-2024
13:40
ALSHS
Server



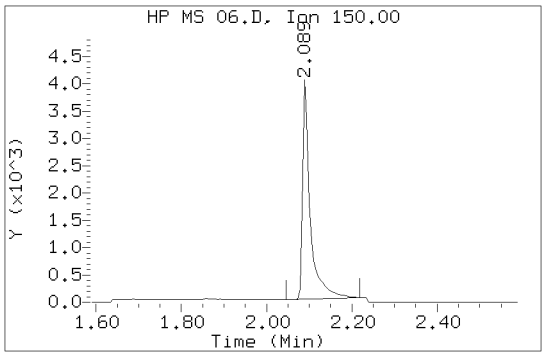
AFTER
MASS
152
AREA
3152
HEIGHT
2443
18-Apr-2024
15:51



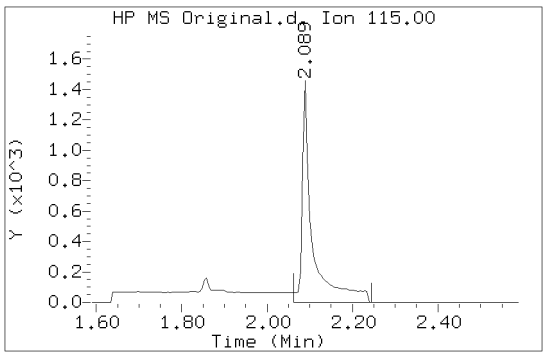
BEFORE
MASS
150
AREA
5683
HEIGHT
4072
18-Apr-2024
13:40
ALSHS
Server



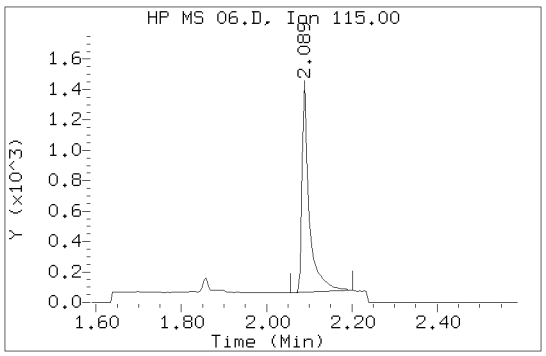
AFTER
MASS
150
AREA
4936
HEIGHT
4013
18-Apr-2024
15:51



BEFORE
MASS
115
AREA
2390
HEIGHT
1458
18-Apr-2024
13:40
ALSHS
Server



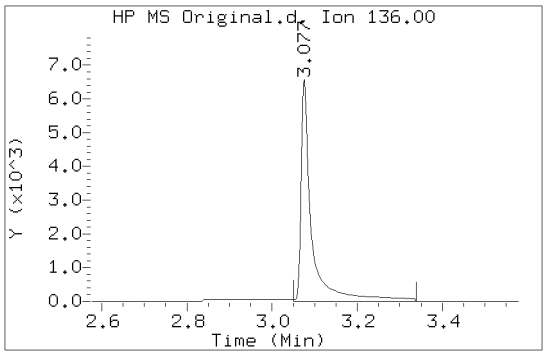
AFTER
MASS
115
AREA
1620
HEIGHT
1390
18-Apr-2024
15:51



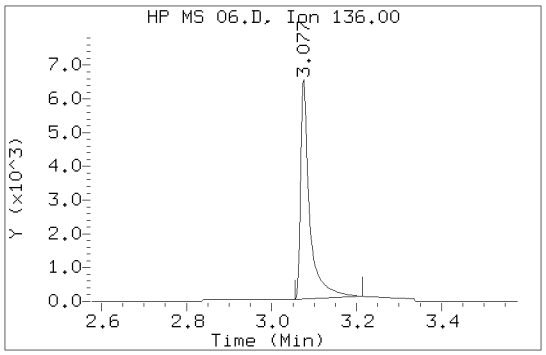
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
11303
HEIGHT
6569
18-Apr-2024
13:40
ALSHS
Server



AFTER
MASS
136
AREA
9502
HEIGHT
6499
18-Apr-2024
15:51



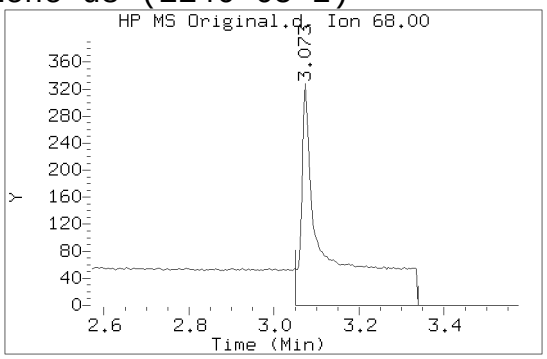
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Naphthalene-d8 (1146-65-2)

Reason Code:

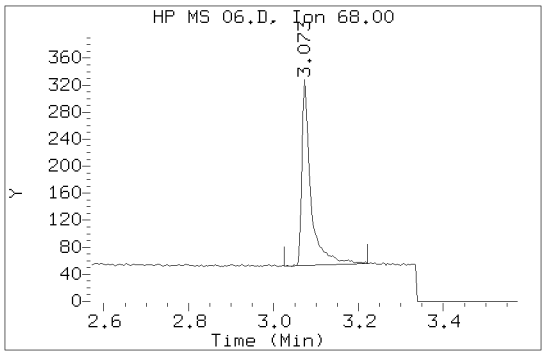
BEFORE

MASS
68
AREA
1344
HEIGHT
328
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
68
AREA
401
HEIGHT
275
18-Apr-2024
15:51

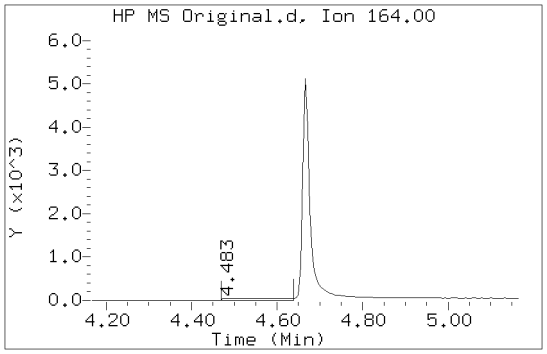


Acenaphthene-d10 (15067-26-2)

Reason Code:

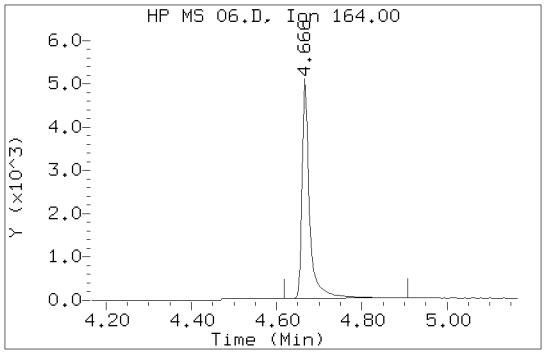
BEFORE

MASS
164
AREA
496
HEIGHT
51
18-Apr-2024
13:40
ALSHS
Server



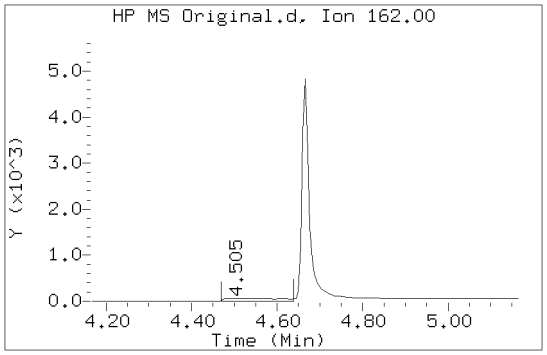
AFTER

MASS
164
AREA
6015
HEIGHT
5068
18-Apr-2024
15:51



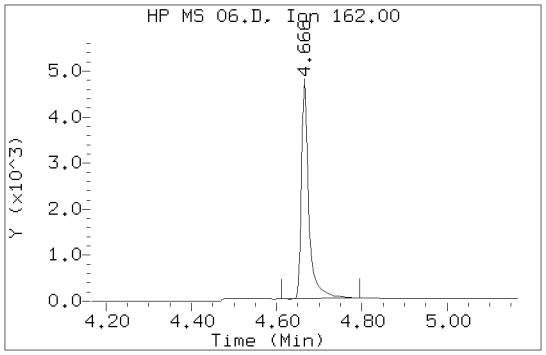
BEFORE

MASS
162
AREA
502
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



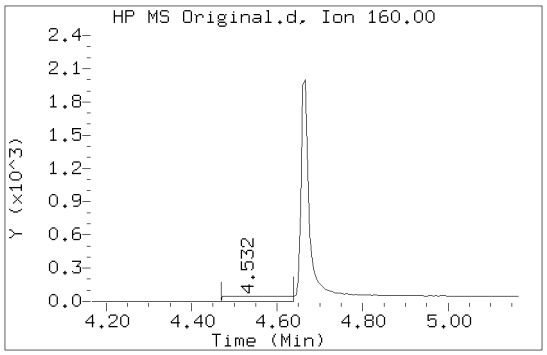
AFTER

MASS
162
AREA
5625
HEIGHT
4775
18-Apr-2024
15:51



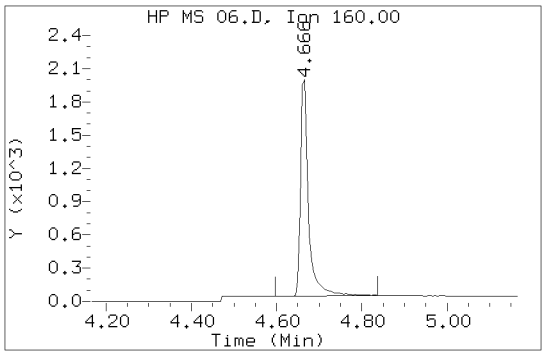
BEFORE

MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
160
AREA
2508
HEIGHT
1951
18-Apr-2024
15:51



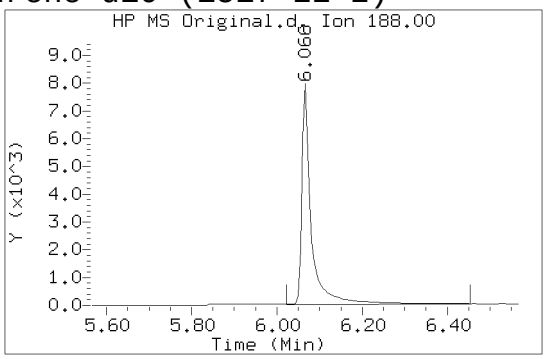
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Phenanthrene-d10 (1517-22-2)

Reason Code:

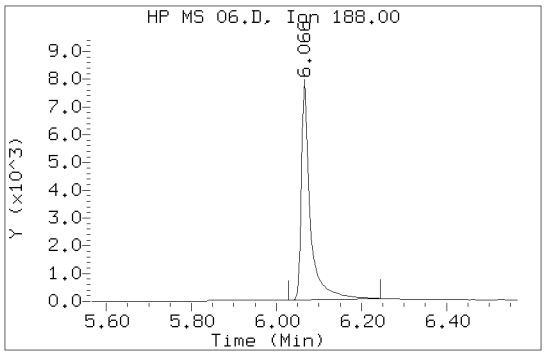
BEFORE

MASS
188
AREA
12630
HEIGHT
7964
18-Apr-2024
13:40
ALSHS
Server



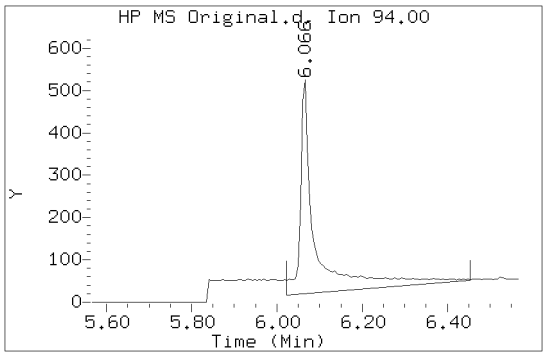
AFTER

MASS
188
AREA
11597
HEIGHT
7928
18-Apr-2024
15:51



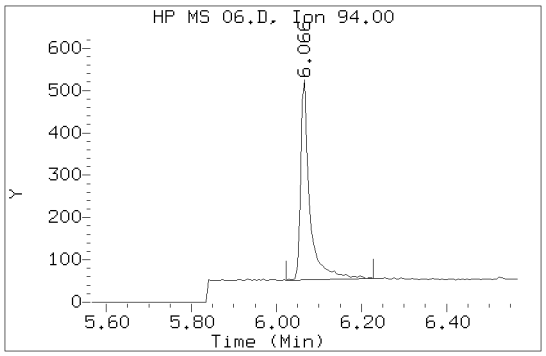
BEFORE

MASS
94
AREA
1254
HEIGHT
505
18-Apr-2024
13:40
ALSHS
Server



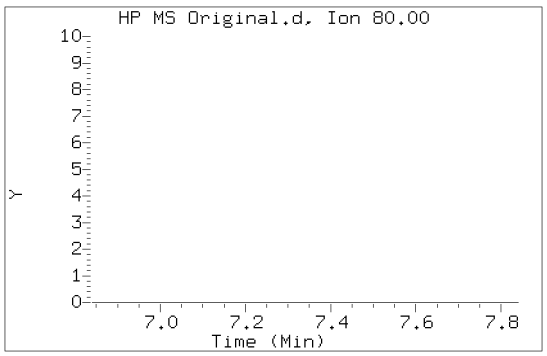
AFTER

MASS
94
AREA
716
HEIGHT
472
18-Apr-2024
15:51



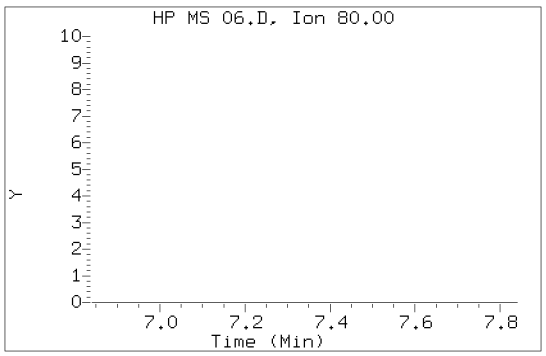
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:51

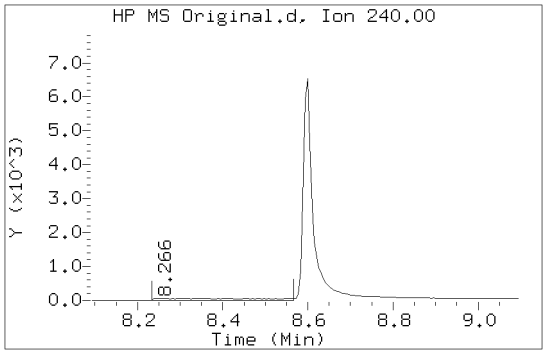


Chrysene-d12 (1719-03-5)

Reason Code:

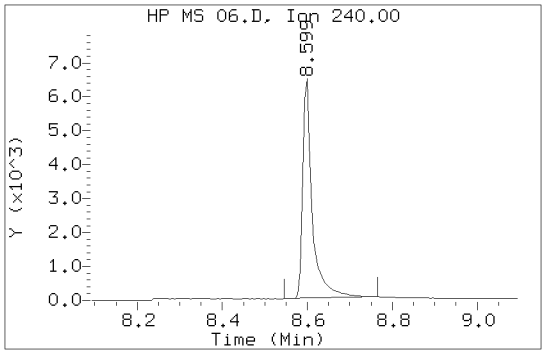
BEFORE

MASS
240
AREA
955
HEIGHT
50
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
240
AREA
10029
HEIGHT
6473
18-Apr-2024
15:51



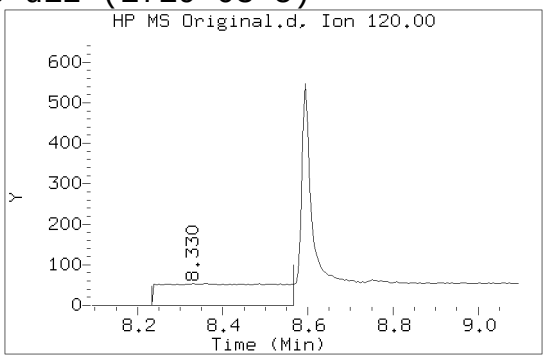
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Chrysene-d12 (1719-03-5)

Reason Code:

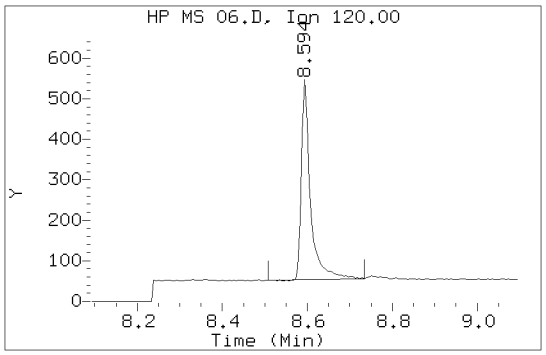
BEFORE

MASS
120
AREA
1034
HEIGHT
53
18-Apr-2024
13:40
ALSHS
Server



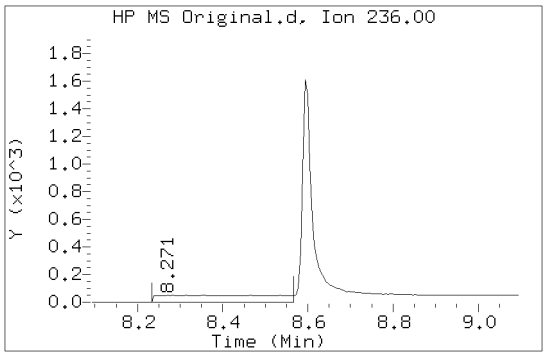
AFTER

MASS
120
AREA
729
HEIGHT
493
18-Apr-2024
15:51



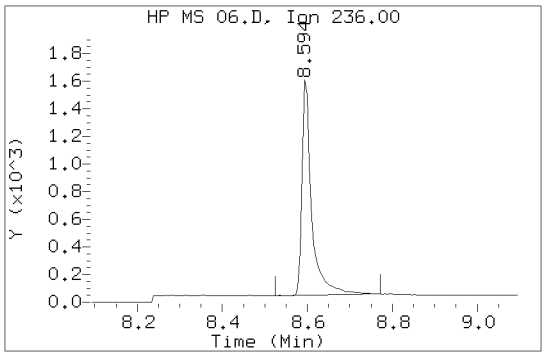
BEFORE

MASS
236
AREA
955
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
236
AREA
2416
HEIGHT
1557
18-Apr-2024
15:51

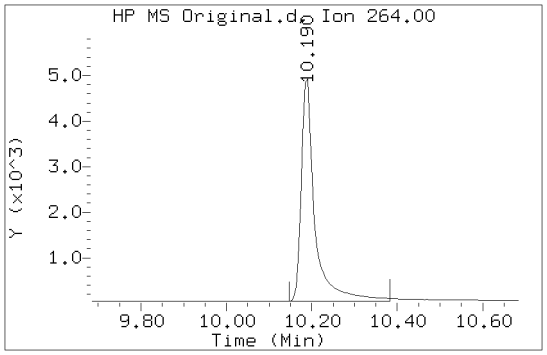


Perylene-d12 (1520-96-3)

Reason Code:

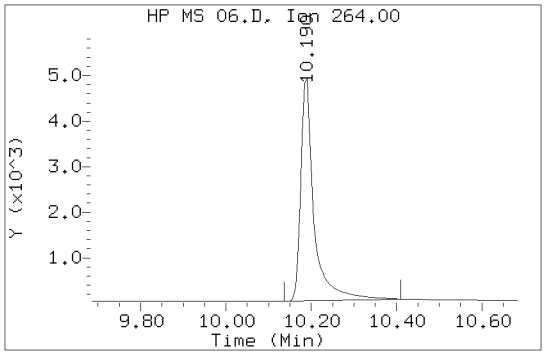
BEFORE

MASS
264
AREA
10683
HEIGHT
4875
18-Apr-2024
13:40
ALSHS
Server



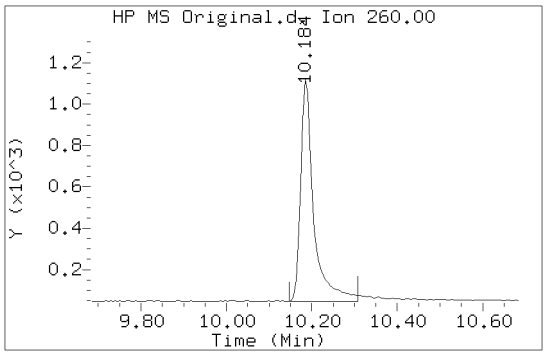
AFTER

MASS
264
AREA
10408
HEIGHT
4868
18-Apr-2024
15:51



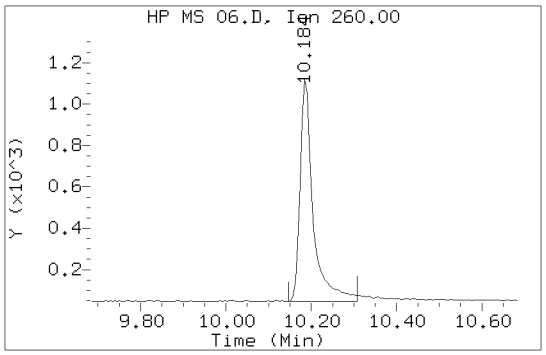
BEFORE

MASS
260
AREA
2254
HEIGHT
1070
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
260
AREA
2254
HEIGHT
1070
18-Apr-2024
15:51



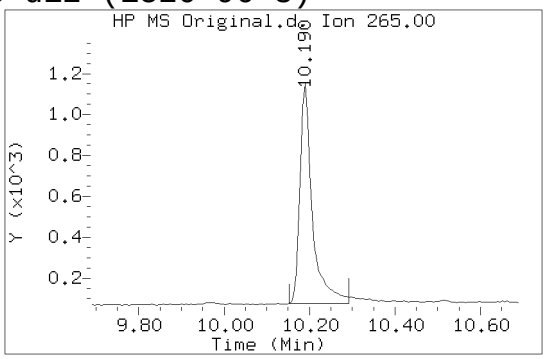
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Perylene-d12 (1520-96-3)

Reason Code:

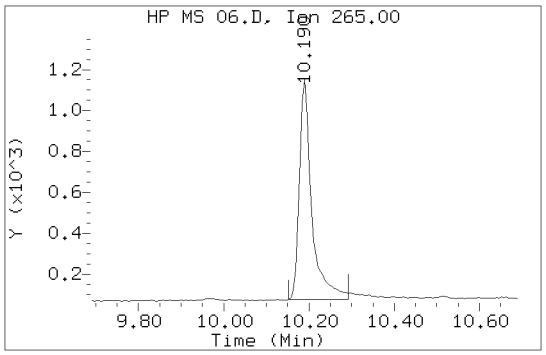
BEFORE

MASS
265
AREA
2161
HEIGHT
1074
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
265
AREA
2161
HEIGHT
1074
18-Apr-2024
15:51

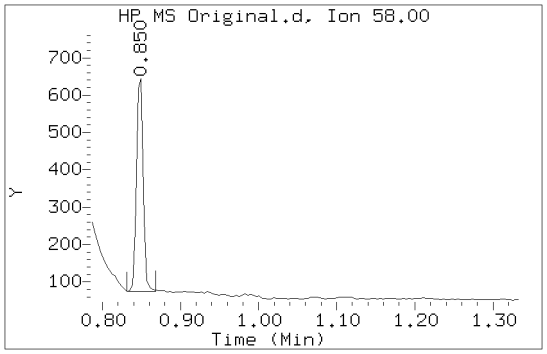


1,4-Dioxane ()

Reason Code:

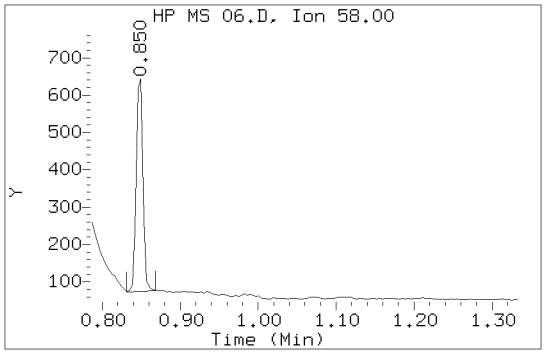
BEFORE

MASS
58
AREA
339
HEIGHT
569
18-Apr-2024
13:40
ALSHS
Server



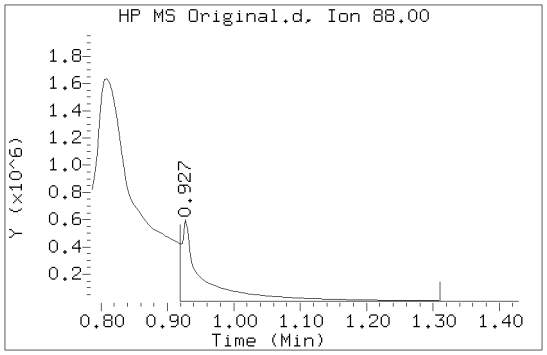
AFTER

MASS
58
AREA
339
HEIGHT
568
18-Apr-2024
15:51



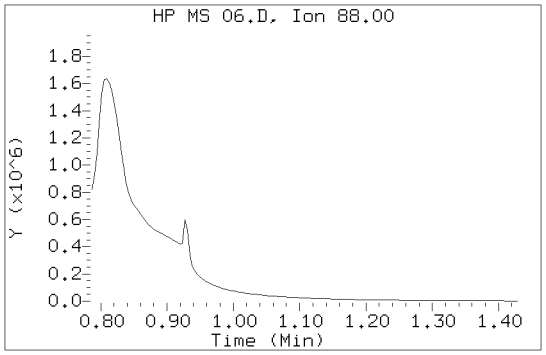
BEFORE

MASS
88
AREA
1337438
HEIGHT
596391
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
15:51

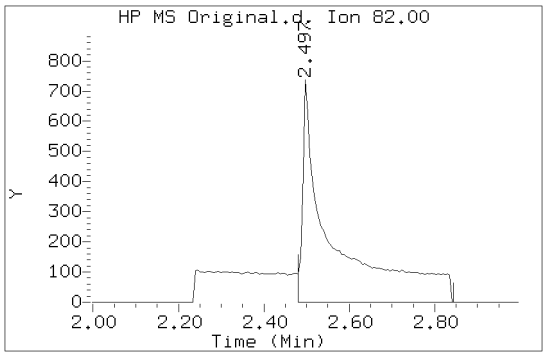


Nitrobenzene-d5 (4165-60-0)

Reason Code:

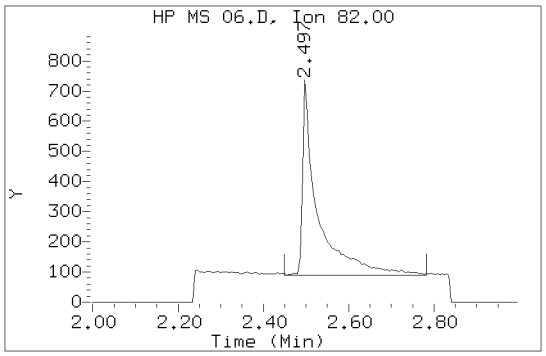
BEFORE

MASS
82
AREA
3516
HEIGHT
737
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
82
AREA
1589
HEIGHT
647
18-Apr-2024
15:51



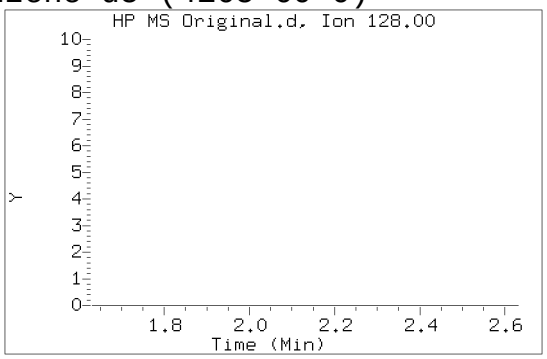
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

Nitrobenzene-d5 (4165-60-0)

Reason Code:

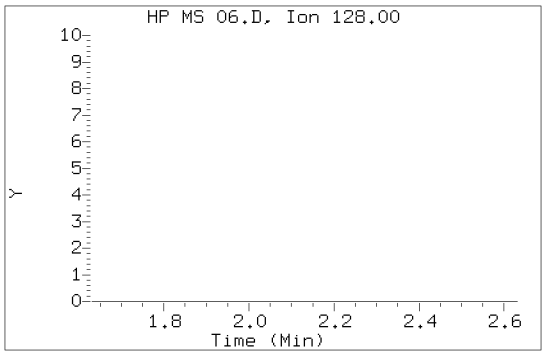
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:40
ALSHS
Server



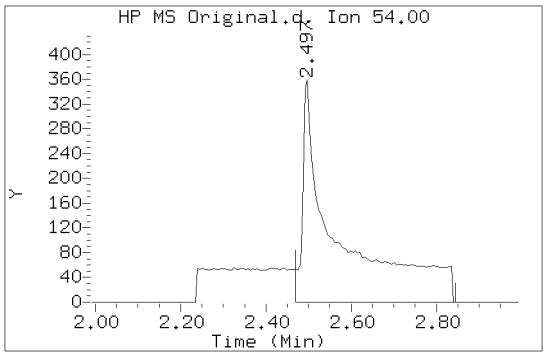
AFTER

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:51



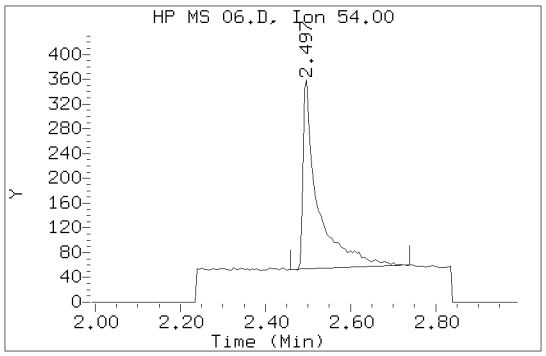
BEFORE

MASS
54
AREA
1999
HEIGHT
359
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
54
AREA
745
HEIGHT
305
18-Apr-2024
15:51

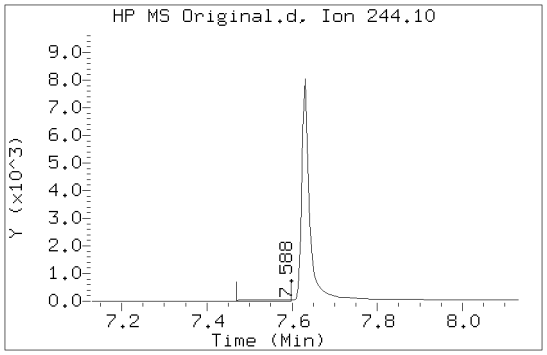


4-Terphenyl-d14 (1718-51-0)

Reason Code:

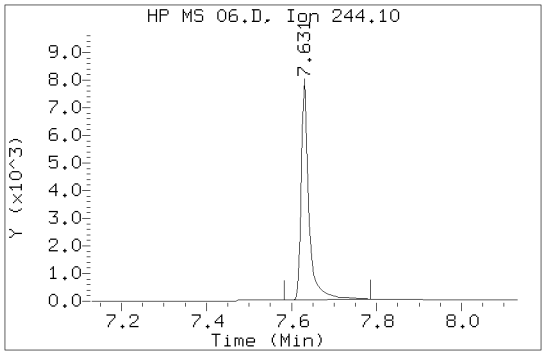
BEFORE

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
13:40
ALSHS
Server



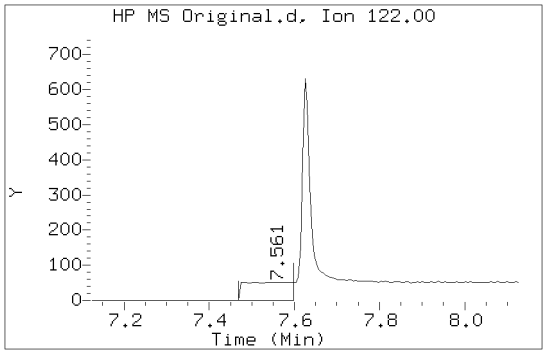
AFTER

MASS
244.1
AREA
10047
HEIGHT
7987
18-Apr-2024
15:51



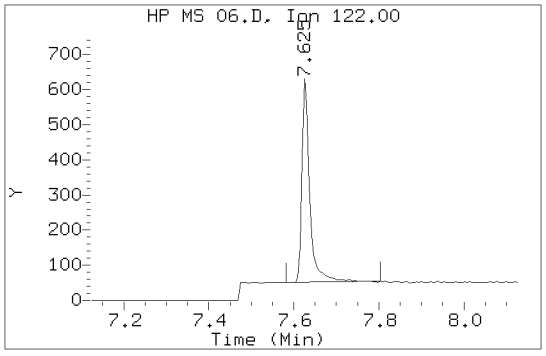
BEFORE

MASS
122
AREA
394
HEIGHT
52
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
122
AREA
741
HEIGHT
579
18-Apr-2024
15:51



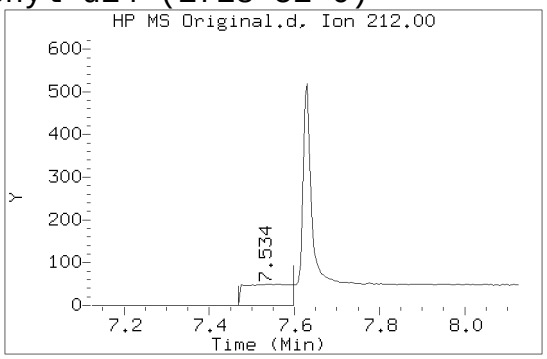
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\06.D
Inj Date : 18-APR-2024 13:25
InstruID : SV6.i
LabSampID : 14DX-0.05

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

Reason Code:

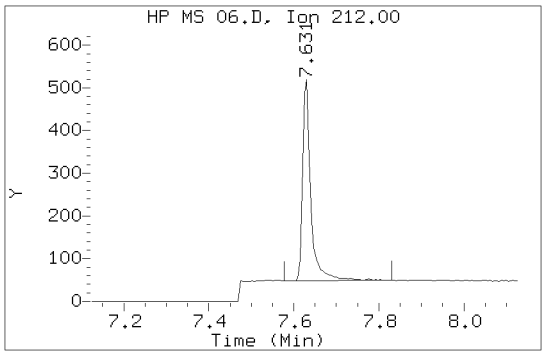
BEFORE

MASS
212
AREA
372
HEIGHT
49
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
212
AREA
623
HEIGHT
470
18-Apr-2024
15:51

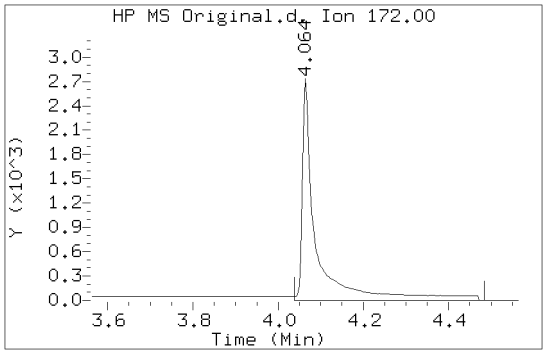


2-Fluorobiphenyl (321-60-8)

Reason Code:

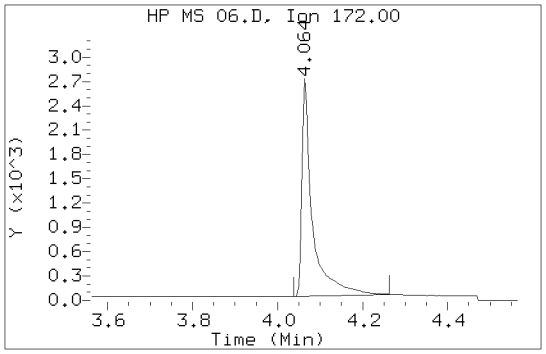
BEFORE

MASS
172
AREA
6214
HEIGHT
2735
18-Apr-2024
13:40
ALSHS
Server



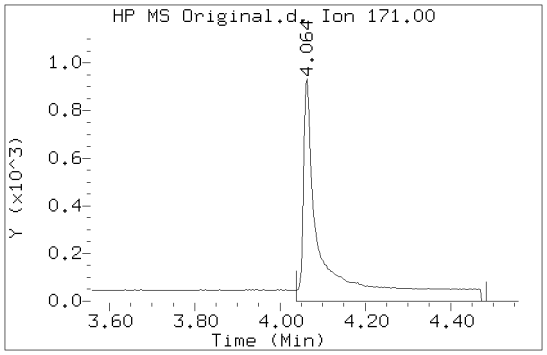
AFTER

MASS
172
AREA
4588
HEIGHT
2684
18-Apr-2024
15:51



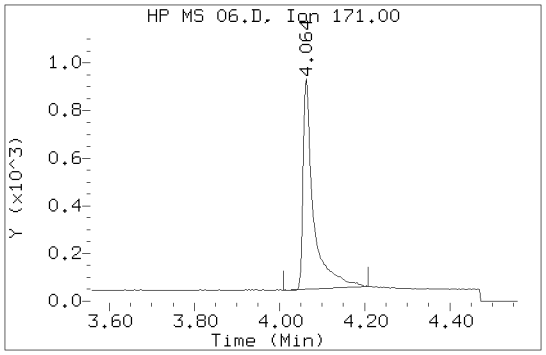
BEFORE

MASS
171
AREA
2920
HEIGHT
933
18-Apr-2024
13:40
ALSHS
Server



AFTER

MASS
171
AREA
1481
HEIGHT
881
18-Apr-2024
15:51



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D Page 1
Report Date: 18-Apr-2024 15:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Lab Smp Id: 14DX-0.10
Inj Date : 18-APR-2024 13:42
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.10
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 18-Apr-2024 15:51 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 13:25 Cal File: 06.D
Als bottle: 7 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7095

Concentration Formula: Amt * DF * Uf * Vt/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.089	2.089	(1.000)	2318	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7718	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.496	(0.812)	2452	0.10000	0.1058(M)
* 86 Acenaphthene-d10	164	4.665	4.665	(1.000)	4530	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.063	(0.871)	7366	0.10000	0.1064(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	8772	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	7453	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	15672	0.10000	0.1032(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	7806	0.10000	
1 1,4-Dioxane	58	0.827	0.827	(0.396)	473	0.10000	0.09527(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.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D

Date : 18-APR-2024 13:42

Client ID:

Instrument: SV6.i

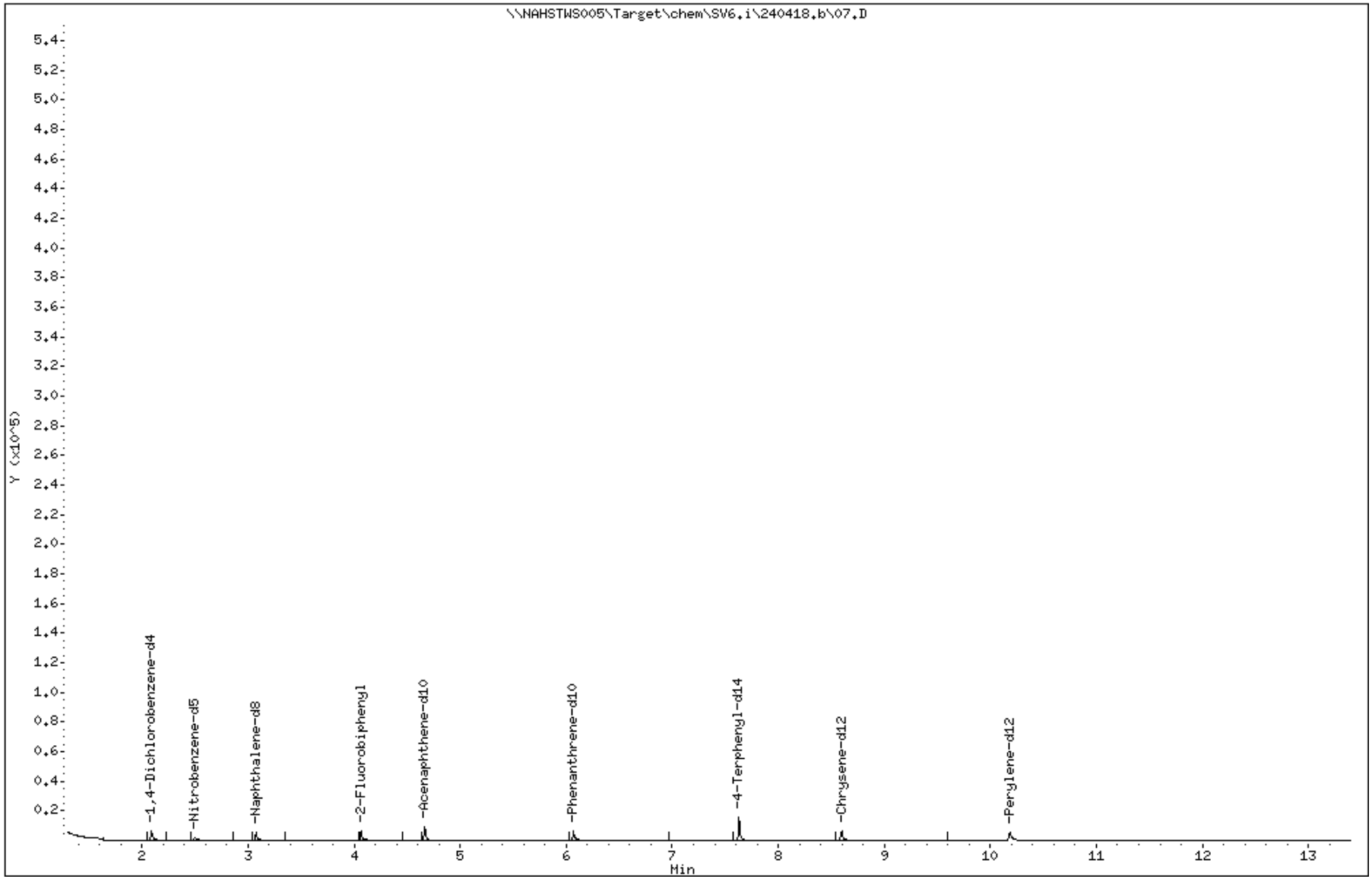
Sample Info: 14DX-0.10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



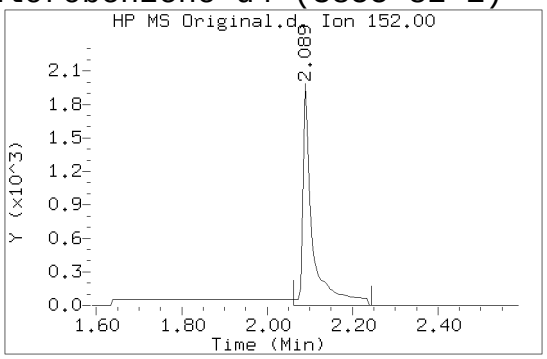
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

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

Reason Code:

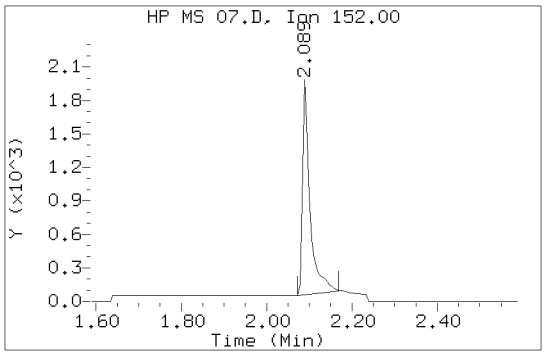
BEFORE

MASS
152
AREA
3091
HEIGHT
1986
18-Apr-2024
13:57
ALSHS
Server



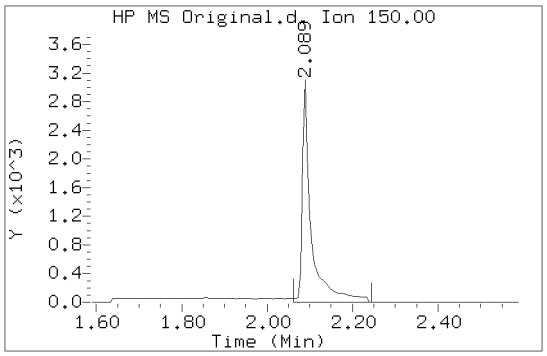
AFTER

MASS
152
AREA
2318
HEIGHT
1925
18-Apr-2024
15:51



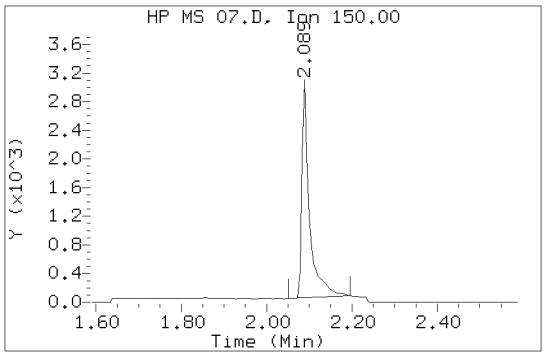
BEFORE

MASS
150
AREA
4519
HEIGHT
3105
18-Apr-2024
13:57
ALSHS
Server



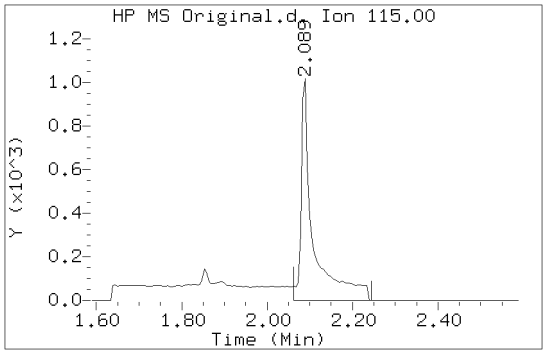
AFTER

MASS
150
AREA
3766
HEIGHT
3045
18-Apr-2024
15:51



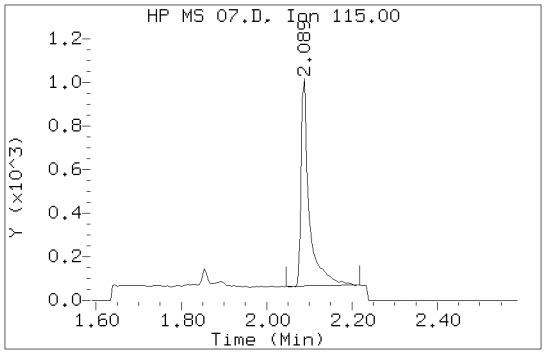
BEFORE

MASS
115
AREA
1993
HEIGHT
1016
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
115
AREA
1271
HEIGHT
950
18-Apr-2024
15:51

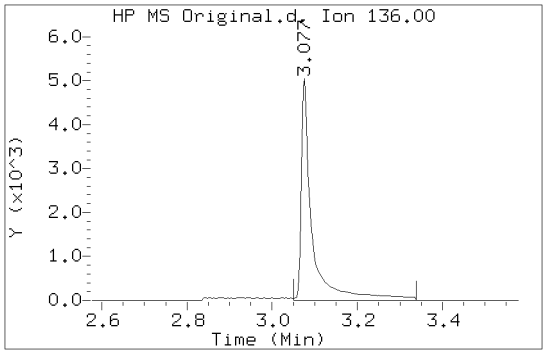


Naphthalene-d8 (1146-65-2)

Reason Code:

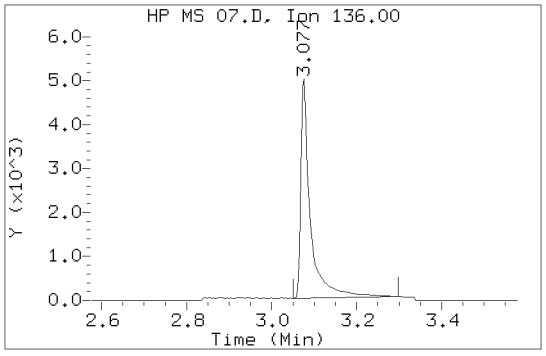
BEFORE

MASS
136
AREA
8891
HEIGHT
5045
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
136
AREA
7718
HEIGHT
4990
18-Apr-2024
15:51



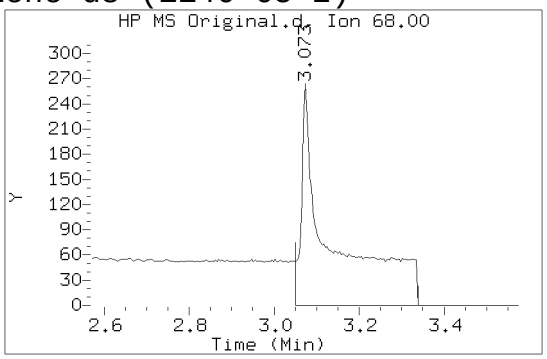
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Naphthalene-d8 (1146-65-2)

Reason Code:

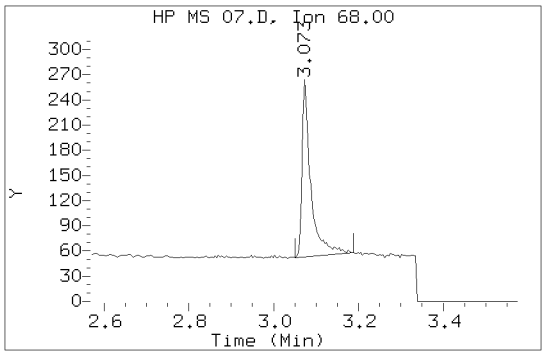
BEFORE

MASS
68
AREA
1251
HEIGHT
264
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
68
AREA
296
HEIGHT
211
18-Apr-2024
15:51

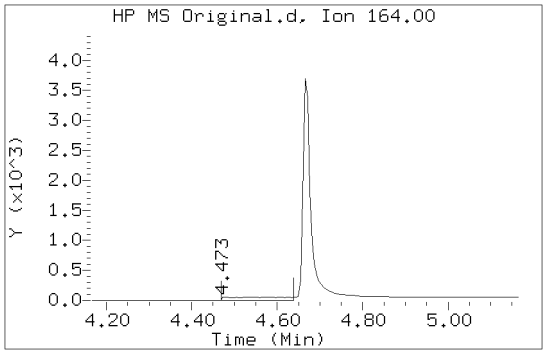


Acenaphthene-d10 (15067-26-2)

Reason Code:

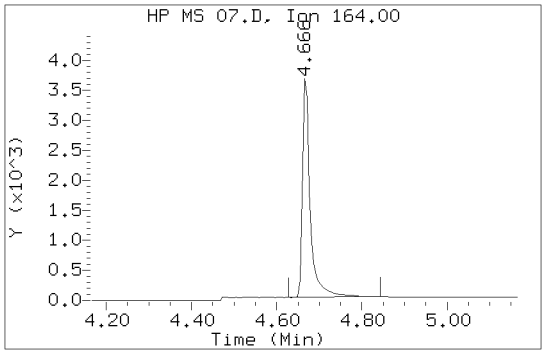
BEFORE

MASS
164
AREA
497
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



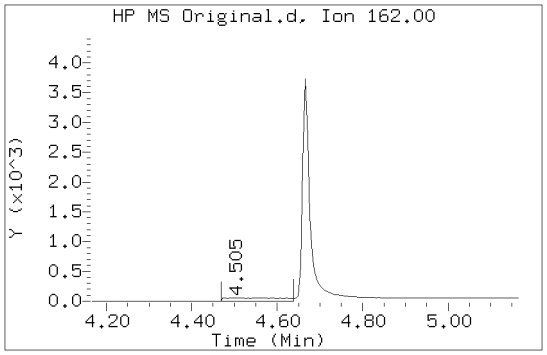
AFTER

MASS
164
AREA
4530
HEIGHT
3643
18-Apr-2024
15:51



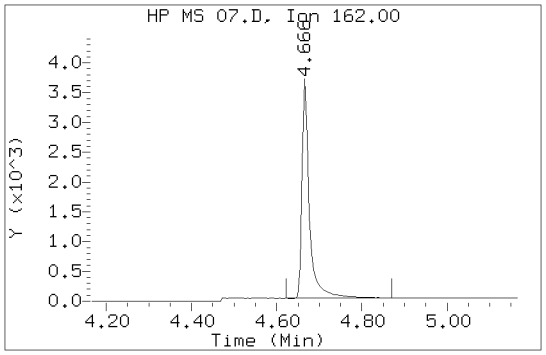
BEFORE

MASS
162
AREA
500
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



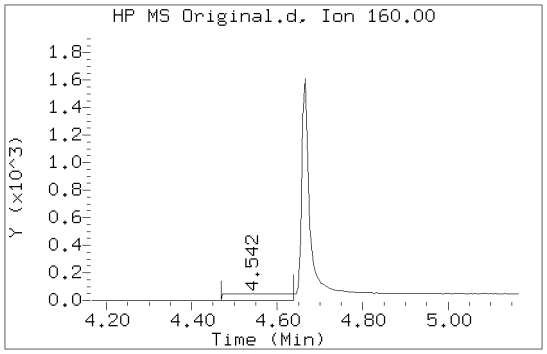
AFTER

MASS
162
AREA
4355
HEIGHT
3679
18-Apr-2024
15:51



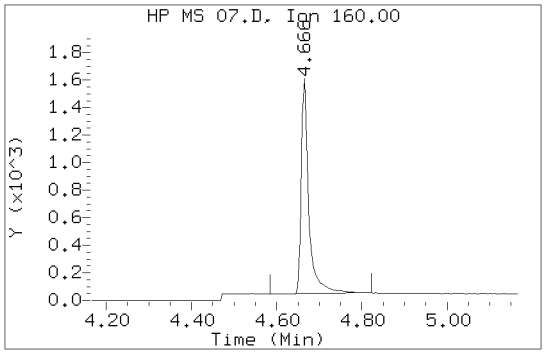
BEFORE

MASS
160
AREA
483
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
160
AREA
1883
HEIGHT
1560
18-Apr-2024
15:51

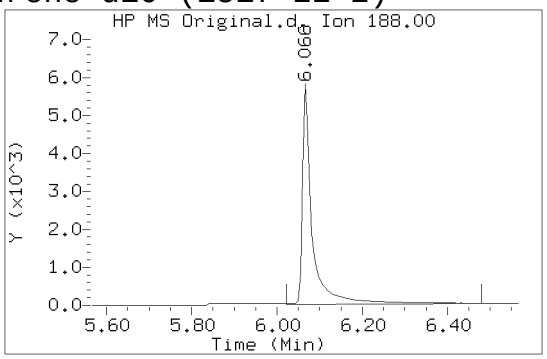


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

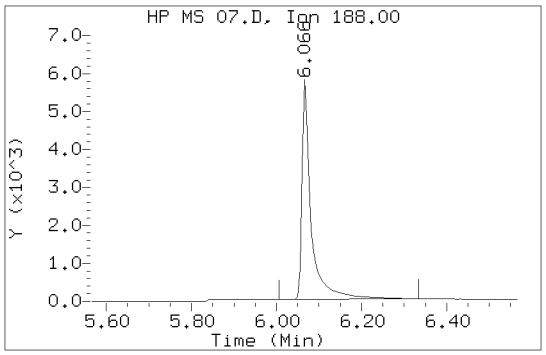
Phenanthrene-d10 (1517-22-2)

Reason Code:

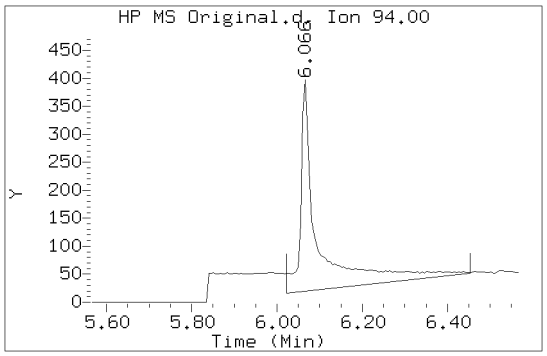
BEFORE
MASS
188
AREA
9529
HEIGHT
5821
18-Apr-2024
13:57
ALSHS
Server



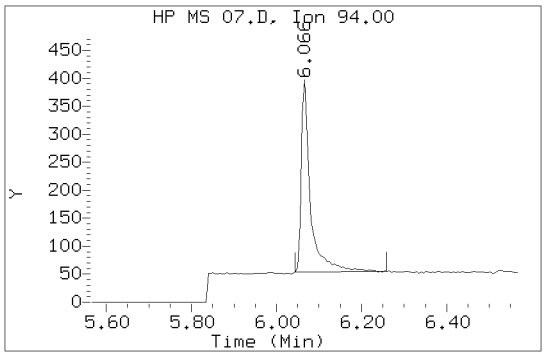
AFTER
MASS
188
AREA
8772
HEIGHT
5788
18-Apr-2024
15:51



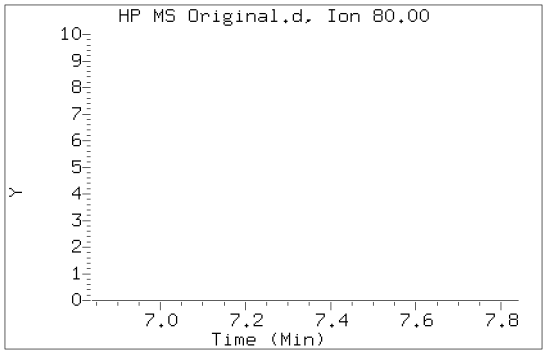
BEFORE
MASS
94
AREA
1042
HEIGHT
377
18-Apr-2024
13:57
ALSHS
Server



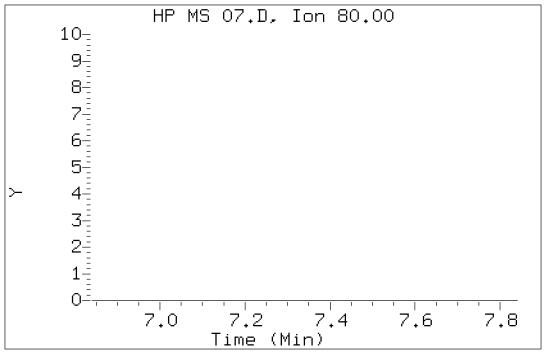
AFTER
MASS
94
AREA
518
HEIGHT
342
18-Apr-2024
15:51



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



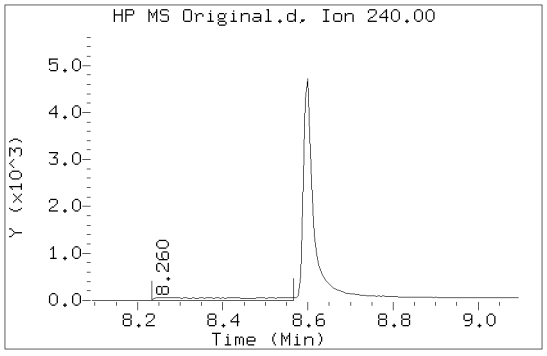
AFTER
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:51



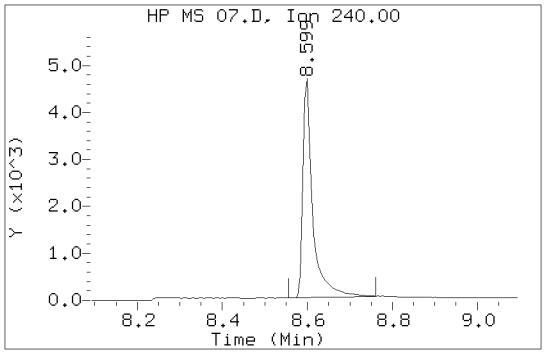
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
957
HEIGHT
50
18-Apr-2024
13:57
ALSHS
Server



AFTER
MASS
240
AREA
7453
HEIGHT
4662
18-Apr-2024
15:51



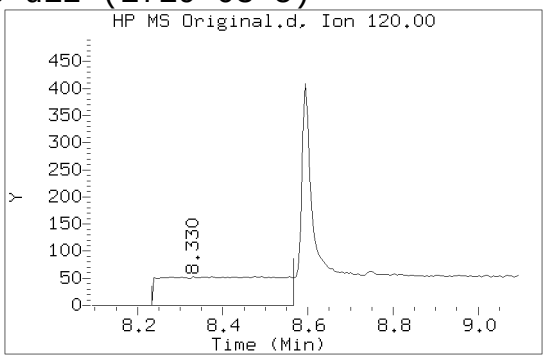
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Chrysene-d12 (1719-03-5)

Reason Code:

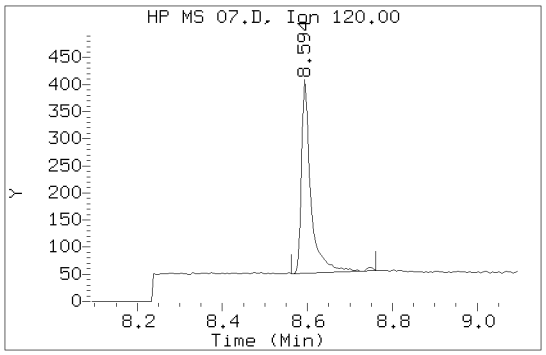
BEFORE

MASS
120
AREA
1029
HEIGHT
53
18-Apr-2024
13:57
ALSHS
Server



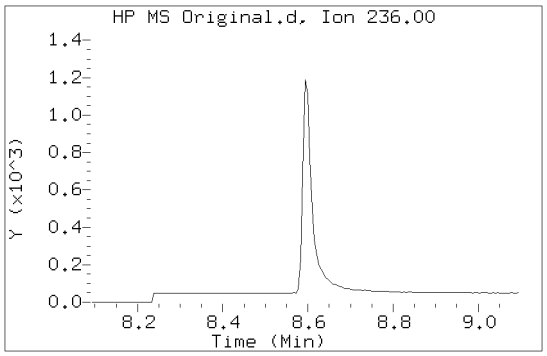
AFTER

MASS
120
AREA
541
HEIGHT
357
18-Apr-2024
15:51



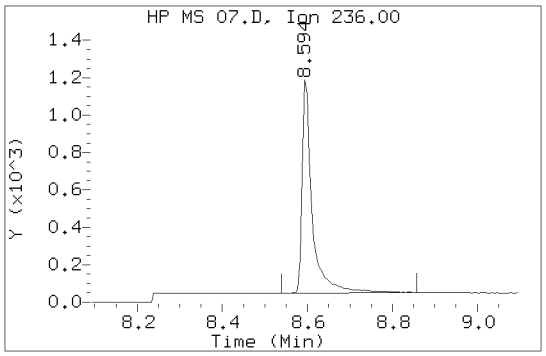
BEFORE

MASS
236
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
236
AREA
1875
HEIGHT
1139
18-Apr-2024
15:51

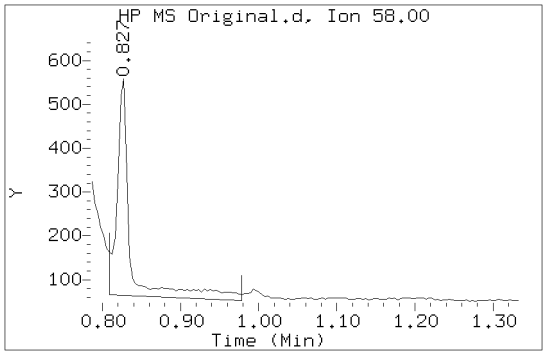


1,4-Dioxane ()

Reason Code:

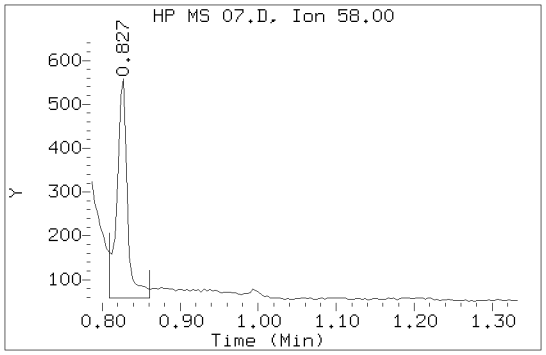
BEFORE

MASS
58
AREA
589
HEIGHT
493
18-Apr-2024
13:57
ALSHS
Server



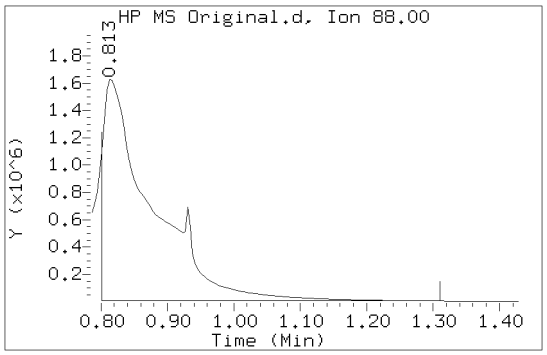
AFTER

MASS
58
AREA
473
HEIGHT
499
18-Apr-2024
15:51



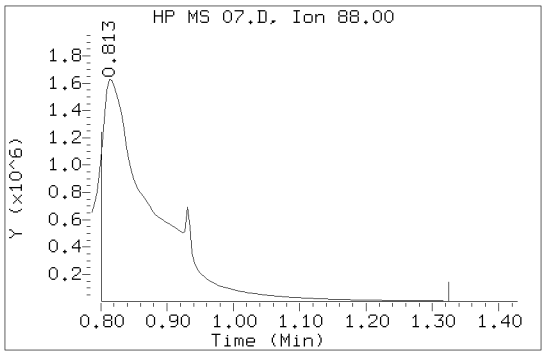
BEFORE

MASS
88
AREA
8266937
HEIGHT
1620371
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
88
AREA
8281553
HEIGHT
1620838
18-Apr-2024
15:51



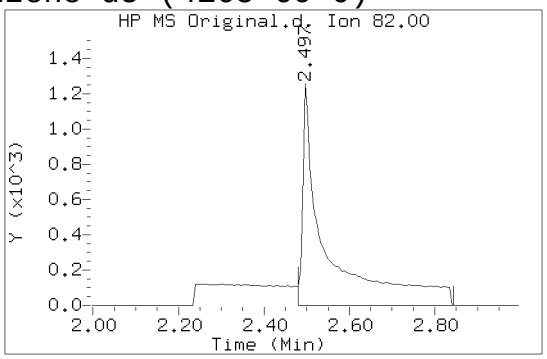
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

Nitrobenzene-d5 (4165-60-0)

Reason Code:

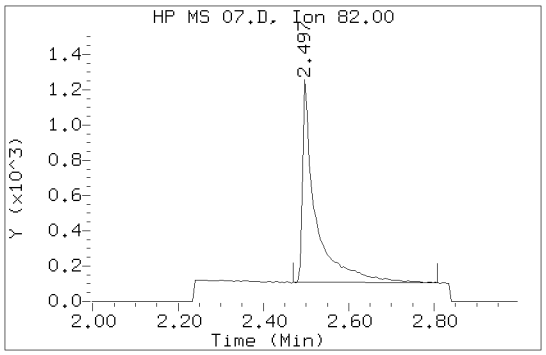
BEFORE

MASS
82
AREA
4733
HEIGHT
1257
18-Apr-2024
13:57
ALSHS
Server



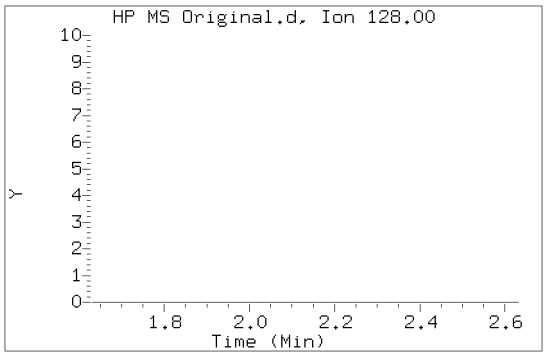
AFTER

MASS
82
AREA
2452
HEIGHT
1148
18-Apr-2024
15:51



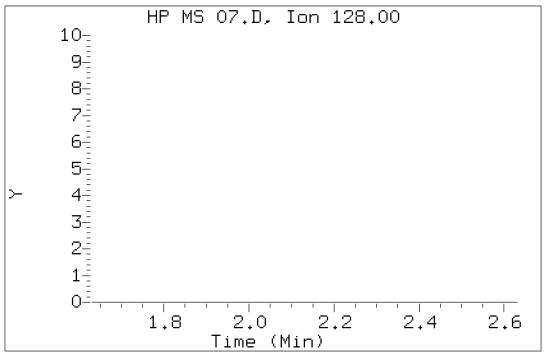
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
13:57
ALSHS
Server



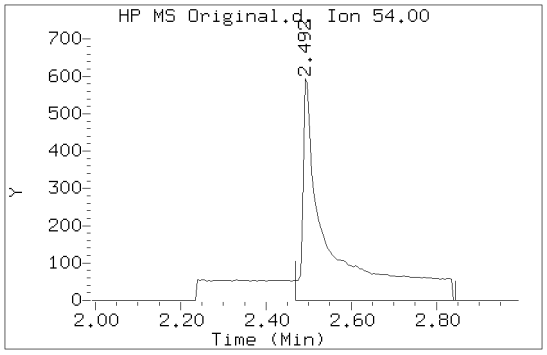
AFTER

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:51



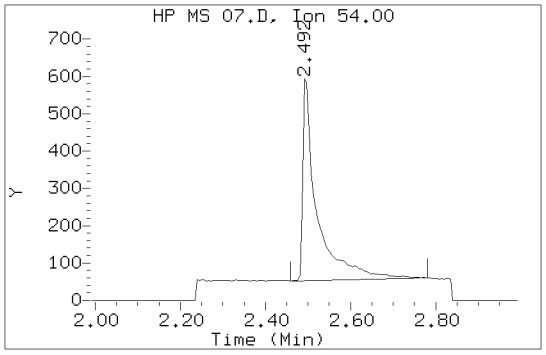
BEFORE

MASS
54
AREA
2506
HEIGHT
594
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
54
AREA
1263
HEIGHT
541
18-Apr-2024
15:51

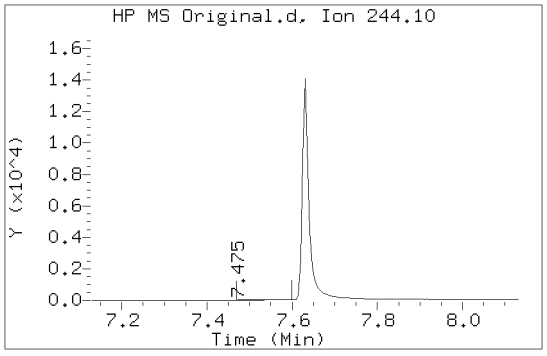


4-Terphenyl-d14 (1718-51-0)

Reason Code:

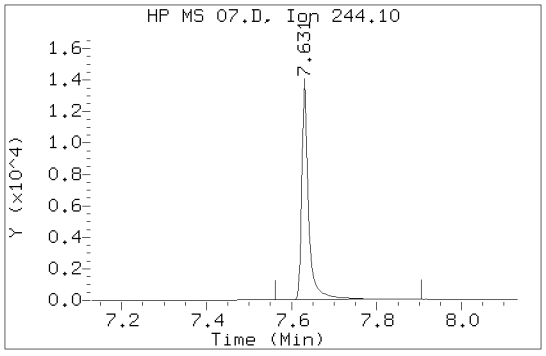
BEFORE

MASS
244.1
AREA
172
HEIGHT
45
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
244.1
AREA
15672
HEIGHT
14035
18-Apr-2024
15:51



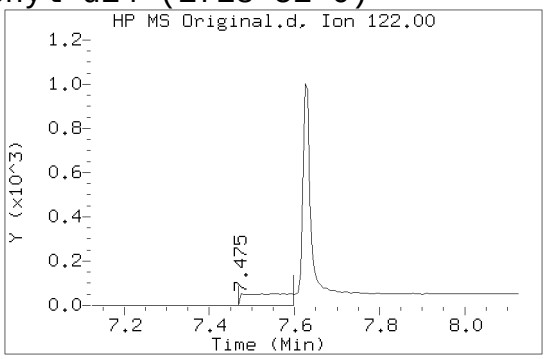
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\07.D
Inj Date : 18-APR-2024 13:42
InstruID : SV6.i
LabSampID : 14DX-0.10

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

Reason Code:

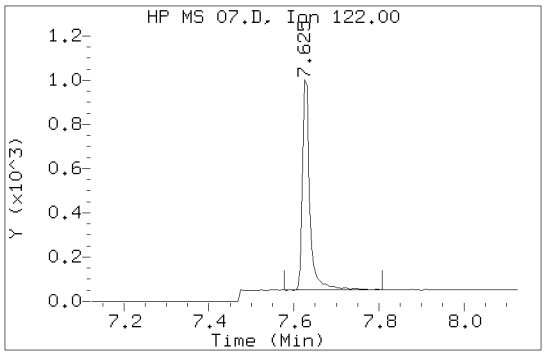
BEFORE

MASS
122
AREA
389
HEIGHT
51
18-Apr-2024
13:57
ALSHS
Server



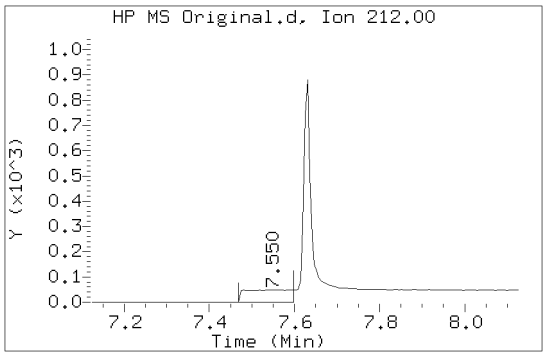
AFTER

MASS
122
AREA
1143
HEIGHT
950
18-Apr-2024
15:51



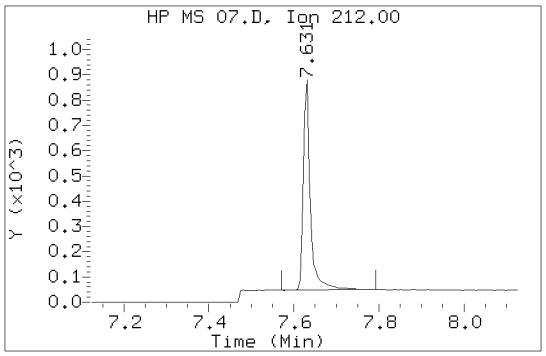
BEFORE

MASS
212
AREA
368
HEIGHT
49
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
212
AREA
942
HEIGHT
831
18-Apr-2024
15:51

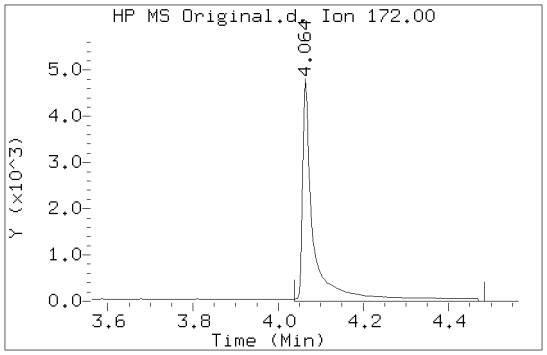


2-Fluorobiphenyl (321-60-8)

Reason Code:

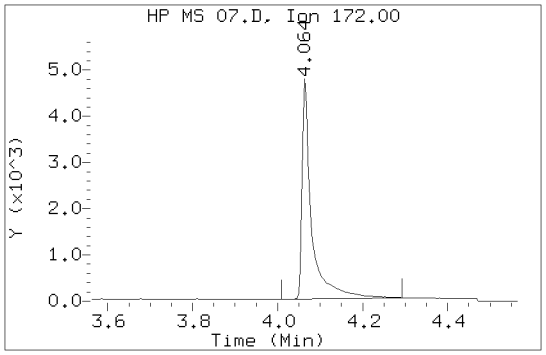
BEFORE

MASS
172
AREA
9042
HEIGHT
4809
18-Apr-2024
13:57
ALSHS
Server



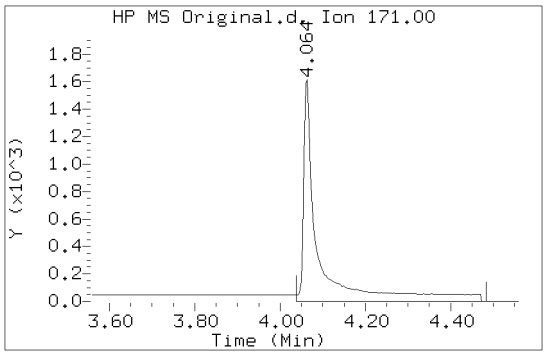
AFTER

MASS
172
AREA
7366
HEIGHT
4757
18-Apr-2024
15:51



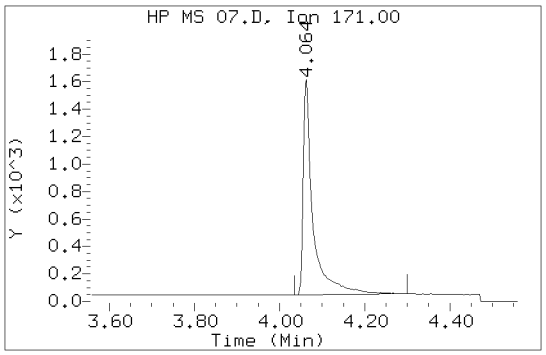
BEFORE

MASS
171
AREA
3879
HEIGHT
1615
18-Apr-2024
13:57
ALSHS
Server



AFTER

MASS
171
AREA
2501
HEIGHT
1566
18-Apr-2024
15:51



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D Page 1
Report Date: 18-Apr-2024 15:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Lab Smp Id: 14DX-0.15
Inj Date : 18-APR-2024 14:00
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.15
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 18-Apr-2024 15:51 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 13:42 Cal File: 07.D
Als bottle: 8 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	2.094	2.094	(1.000)	3084	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9604	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.497	(0.812)	4499	0.15000	0.1560(AM)
* 86 Acenaphthene-d10	164	4.665	4.665	(1.000)	5448	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.064	(0.871)	13067	0.15000	0.1569(AM)
* 126 Phenanthrene-d10	188	6.066	6.066	(1.000)	10645	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	8954	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	27519	0.15000	0.1509(AM)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	9228	0.10000	
1 1,4-Dioxane	58	0.842	0.842	(0.402)	984	0.15000	0.1490(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.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D

Date : 18-APR-2024 14:00

Client ID:

Instrument: SV6.i

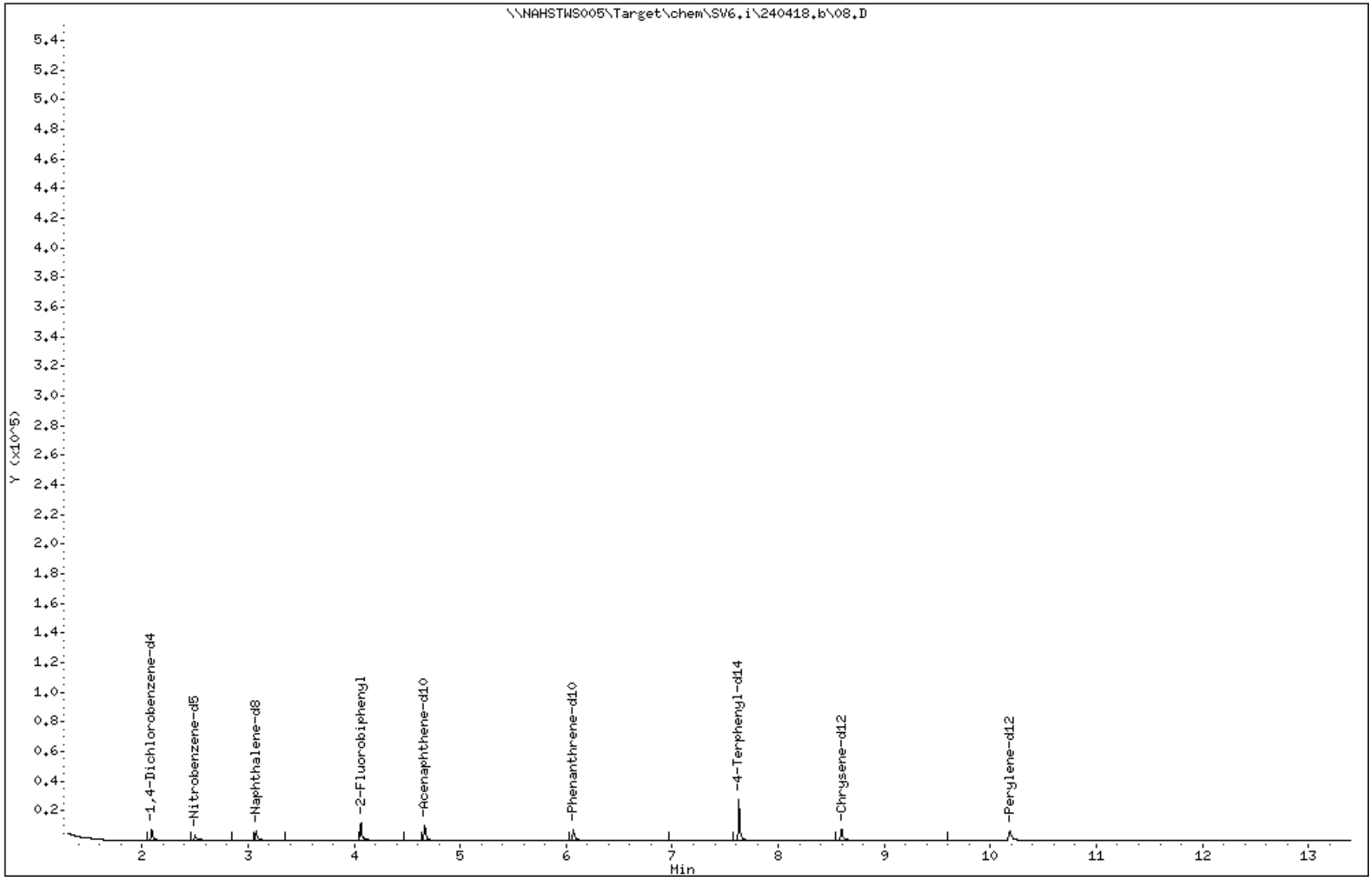
Sample Info: 14DX-0.15

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

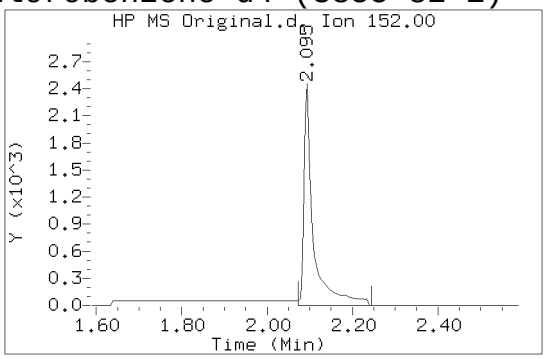


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

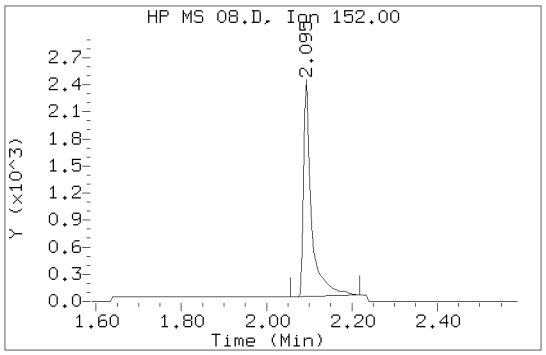
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

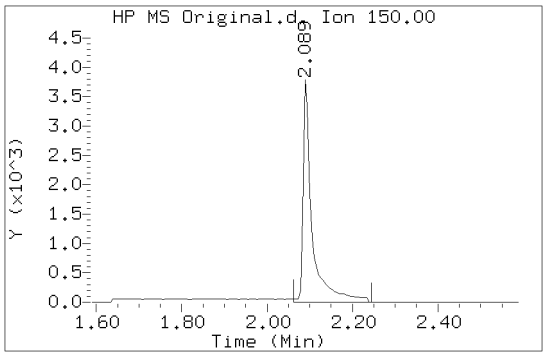
BEFORE
MASS
152
AREA
3705
HEIGHT
2456
18-Apr-2024
14:16
ALSHS
Server



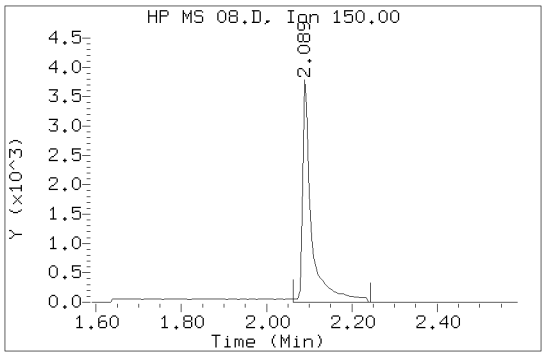
AFTER
MASS
152
AREA
3084
HEIGHT
2400
18-Apr-2024
15:51



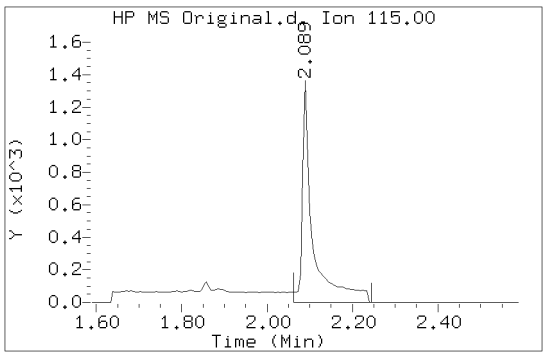
BEFORE
MASS
150
AREA
5535
HEIGHT
3786
18-Apr-2024
14:16
ALSHS
Server



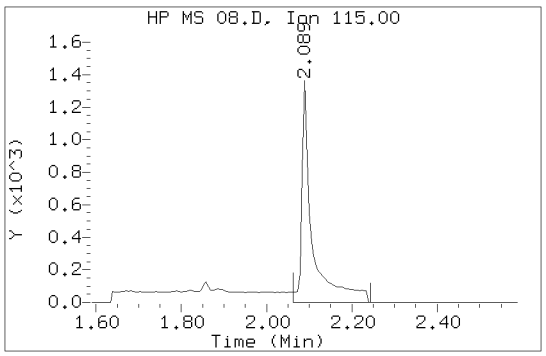
AFTER
MASS
150
AREA
5535
HEIGHT
3786
18-Apr-2024
15:51



BEFORE
MASS
115
AREA
2326
HEIGHT
1363
18-Apr-2024
14:16
ALSHS
Server



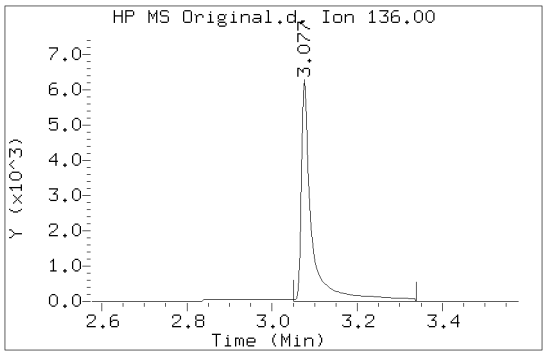
AFTER
MASS
115
AREA
2326
HEIGHT
1363
18-Apr-2024
15:51



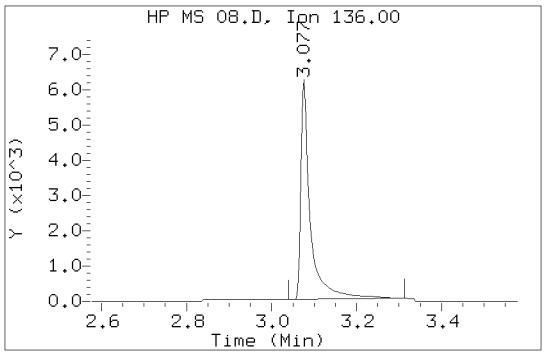
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10787
HEIGHT
6291
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
136
AREA
9604
HEIGHT
6235
18-Apr-2024
15:51



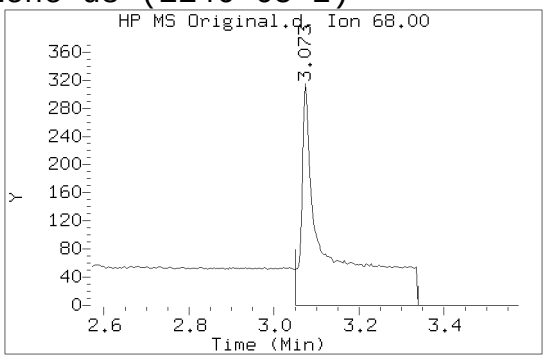
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Naphthalene-d8 (1146-65-2)

Reason Code:

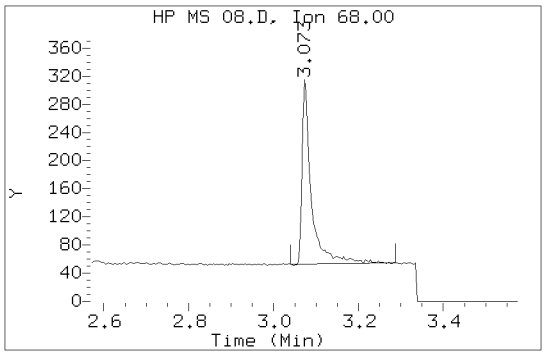
BEFORE

MASS
68
AREA
1324
HEIGHT
315
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
68
AREA
389
HEIGHT
261
18-Apr-2024
15:51

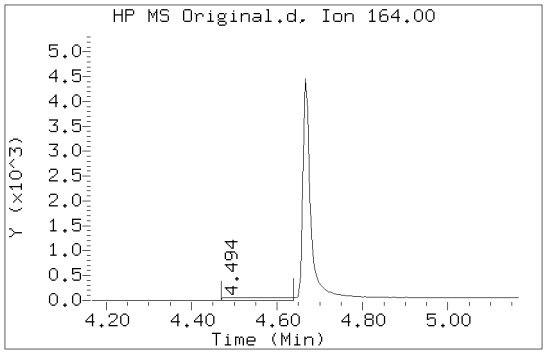


Acenaphthene-d10 (15067-26-2)

Reason Code:

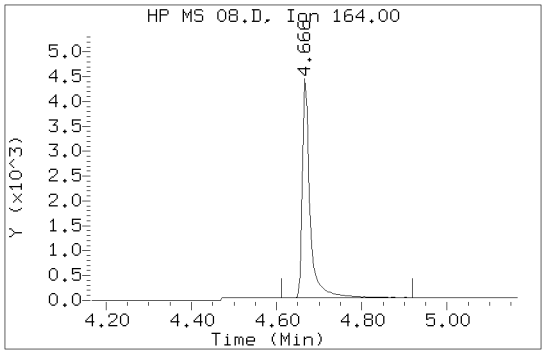
BEFORE

MASS
164
AREA
496
HEIGHT
50
18-Apr-2024
14:16
ALSHS
Server



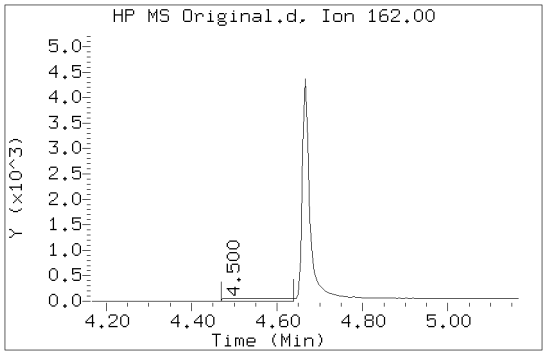
AFTER

MASS
164
AREA
5448
HEIGHT
4411
18-Apr-2024
15:51



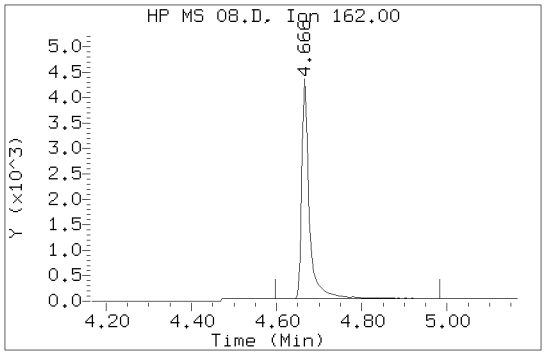
BEFORE

MASS
162
AREA
496
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



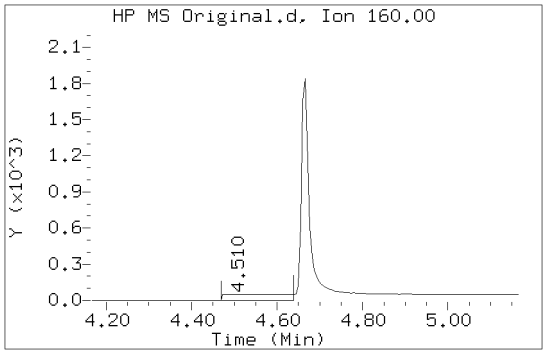
AFTER

MASS
162
AREA
5277
HEIGHT
4319
18-Apr-2024
15:51



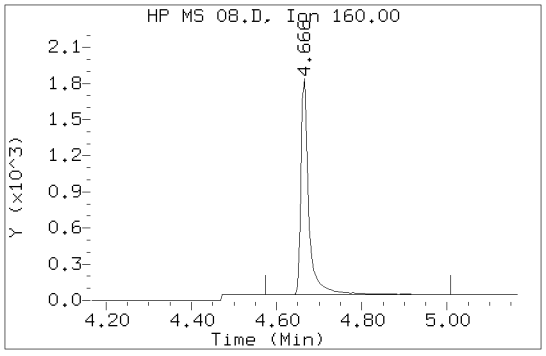
BEFORE

MASS
160
AREA
482
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
160
AREA
2305
HEIGHT
1792
18-Apr-2024
15:51



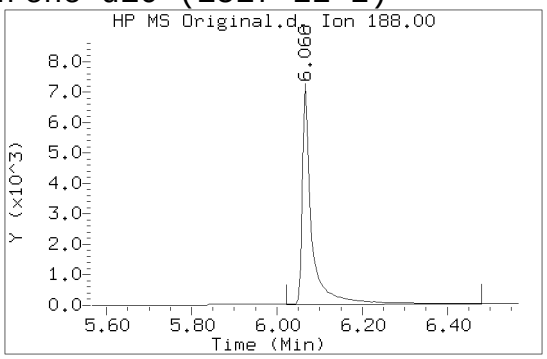
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Phenanthrene-d10 (1517-22-2)

Reason Code:

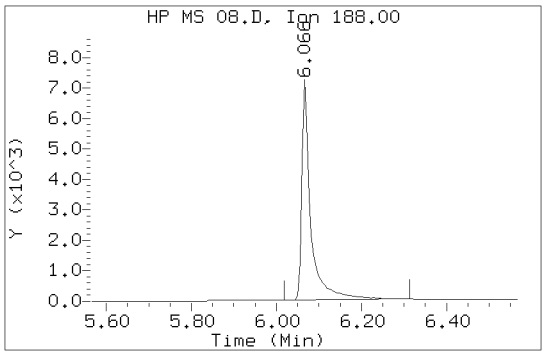
BEFORE

MASS
188
AREA
11494
HEIGHT
7257
18-Apr-2024
14:16
ALSHS
Server



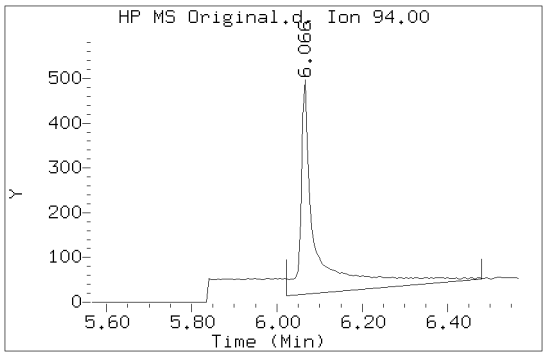
AFTER

MASS
188
AREA
10645
HEIGHT
7224
18-Apr-2024
15:51



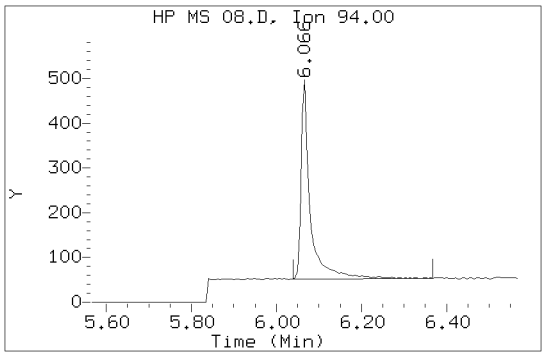
BEFORE

MASS
94
AREA
1207
HEIGHT
478
18-Apr-2024
14:16
ALSHS
Server



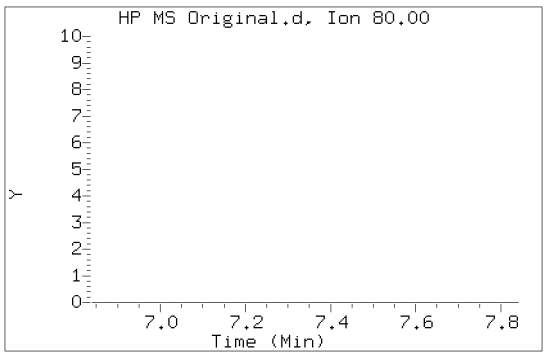
AFTER

MASS
94
AREA
674
HEIGHT
444
18-Apr-2024
15:51



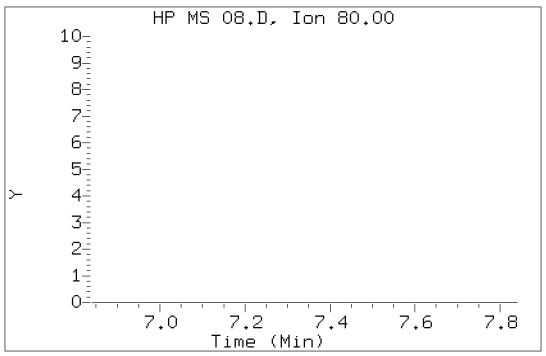
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:51

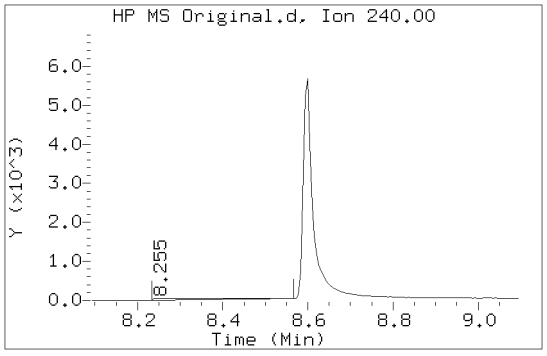


Chrysene-d12 (1719-03-5)

Reason Code:

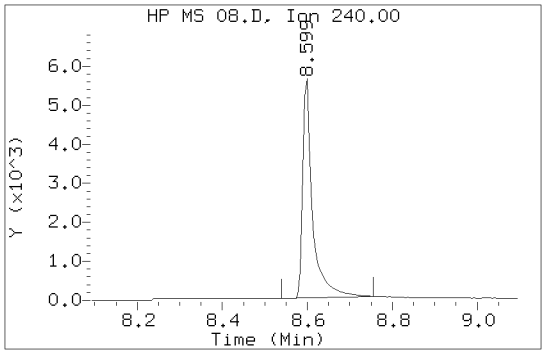
BEFORE

MASS
240
AREA
453
HEIGHT
46
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
240
AREA
8954
HEIGHT
5618
18-Apr-2024
15:51



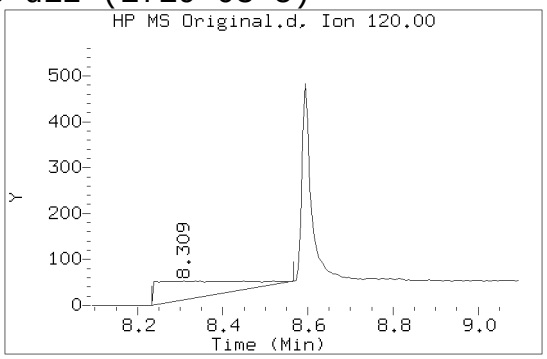
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

Chrysene-d12 (1719-03-5)

Reason Code:

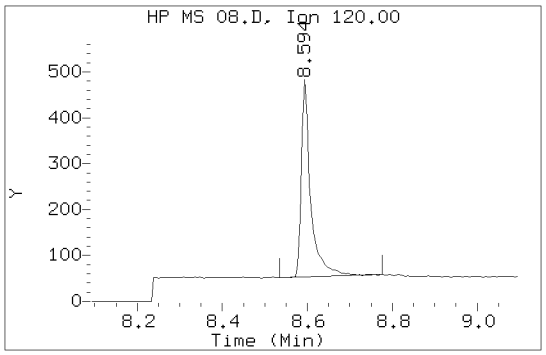
BEFORE

MASS
120
AREA
491
HEIGHT
41
18-Apr-2024
14:16
ALSHS
Server



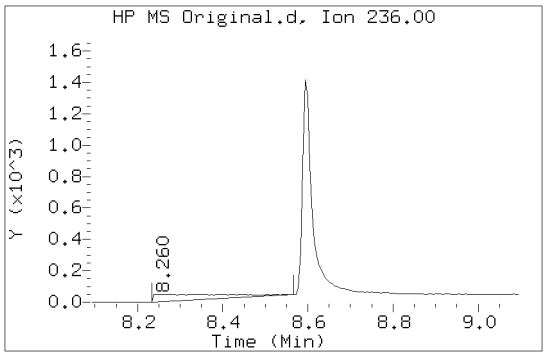
AFTER

MASS
120
AREA
640
HEIGHT
429
18-Apr-2024
15:51



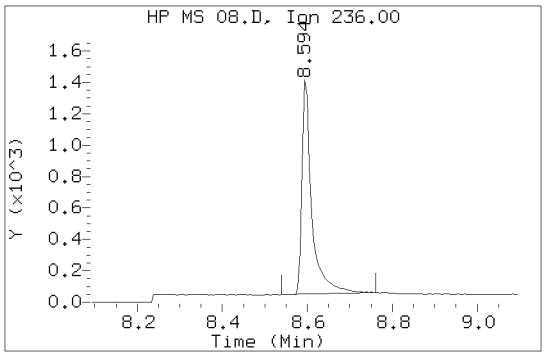
BEFORE

MASS
236
AREA
459
HEIGHT
45
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
236
AREA
2175
HEIGHT
1364
18-Apr-2024
15:51

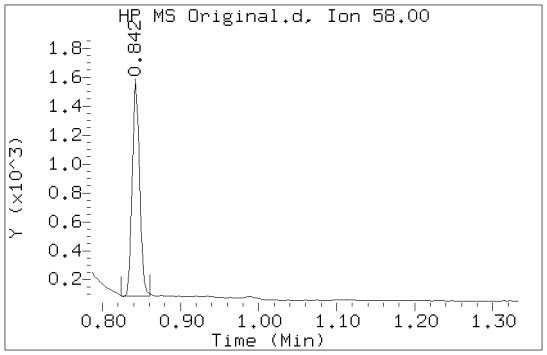


1,4-Dioxane ()

Reason Code:

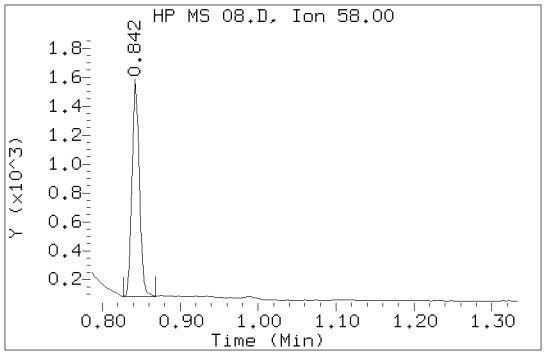
BEFORE

MASS
58
AREA
972
HEIGHT
1502
18-Apr-2024
14:16
ALSHS
Server



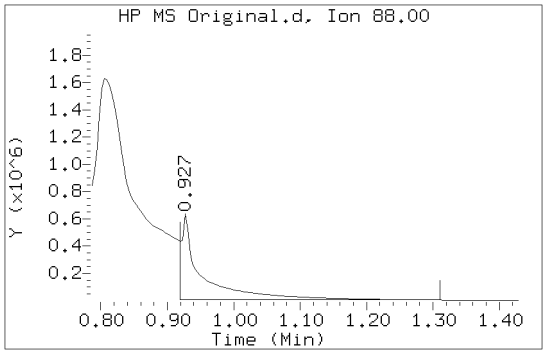
AFTER

MASS
58
AREA
984
HEIGHT
1506
18-Apr-2024
15:51



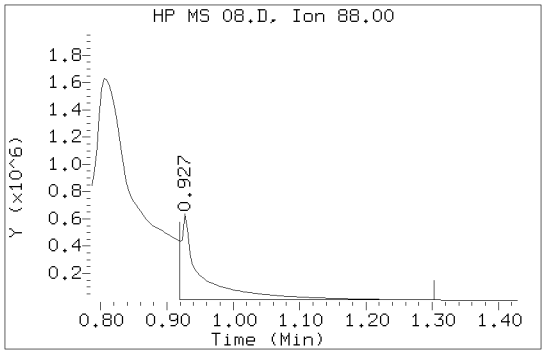
BEFORE

MASS
88
AREA
1391687
HEIGHT
630804
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
88
AREA
1385982
HEIGHT
630559
18-Apr-2024
15:51

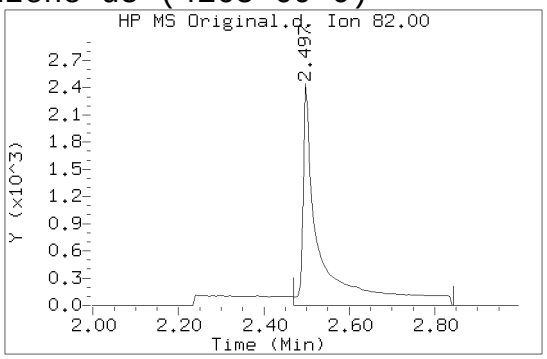


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

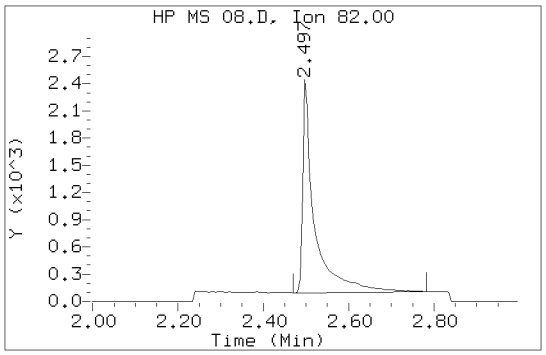
Nitrobenzene-d5 (4165-60-0)

Reason Code:

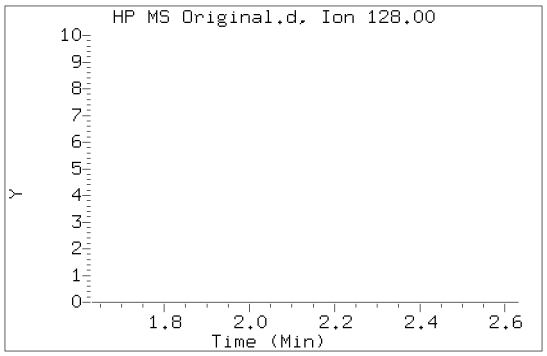
BEFORE
MASS
82
AREA
6726
HEIGHT
2444
18-Apr-2024
14:16
ALSHS
Server



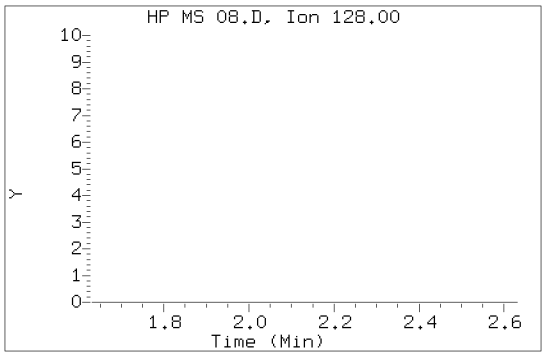
AFTER
MASS
82
AREA
4499
HEIGHT
2348
18-Apr-2024
15:51



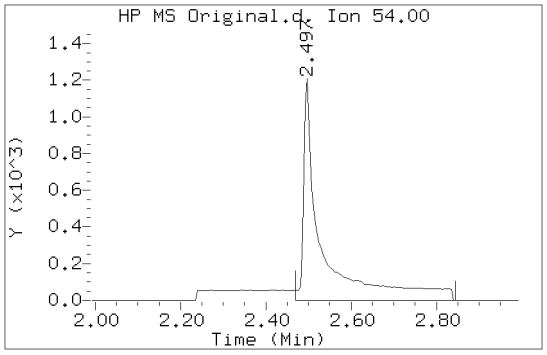
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:16
ALSHS
Server



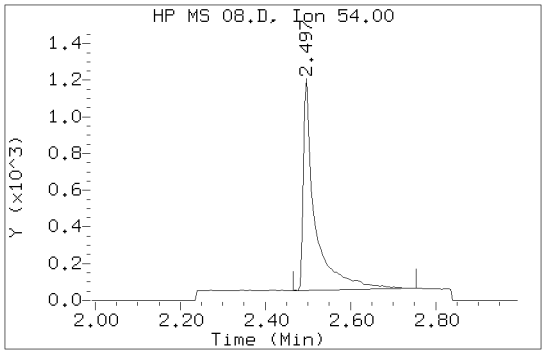
AFTER
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:51



BEFORE
MASS
54
AREA
3552
HEIGHT
1208
18-Apr-2024
14:16
ALSHS
Server



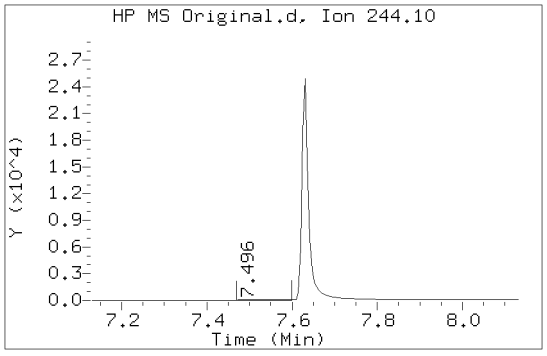
AFTER
MASS
54
AREA
2217
HEIGHT
1153
18-Apr-2024
15:51



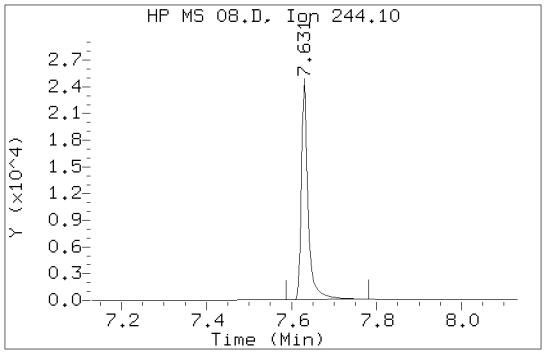
4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE
MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
14:16
ALSHS
Server



AFTER
MASS
244.1
AREA
27519
HEIGHT
24848
18-Apr-2024
15:51



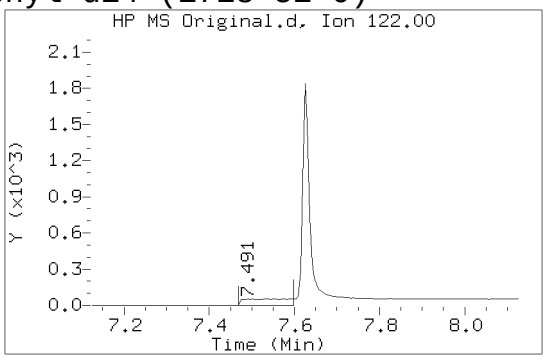
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\08.D
Inj Date : 18-APR-2024 14:00
InstruID : SV6.i
LabSampID : 14DX-0.15

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

Reason Code:

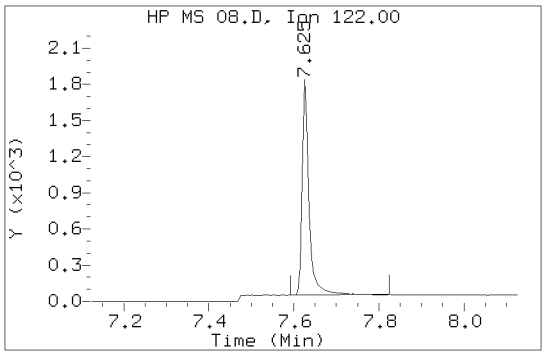
BEFORE

MASS
122
AREA
391
HEIGHT
52
18-Apr-2024
14:16
ALSHS
Server



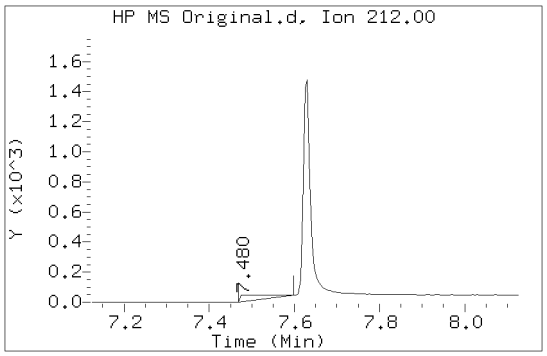
AFTER

MASS
122
AREA
2002
HEIGHT
1786
18-Apr-2024
15:51



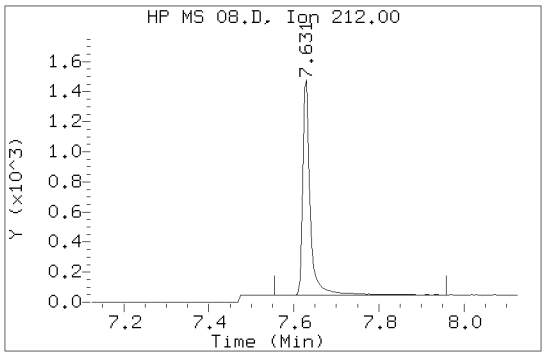
BEFORE

MASS
212
AREA
175
HEIGHT
44
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
212
AREA
1733
HEIGHT
1429
18-Apr-2024
15:51

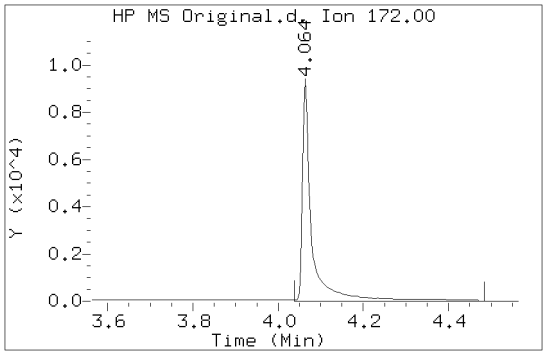


2-Fluorobiphenyl (321-60-8)

Reason Code:

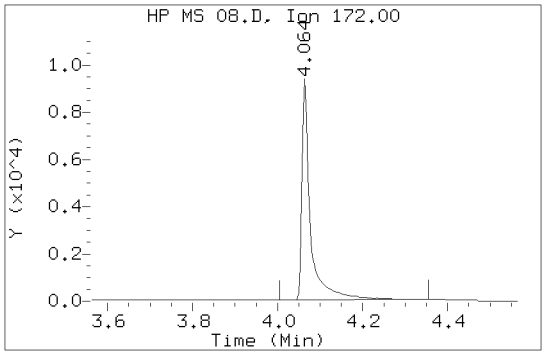
BEFORE

MASS
172
AREA
14843
HEIGHT
9413
18-Apr-2024
14:16
ALSHS
Server



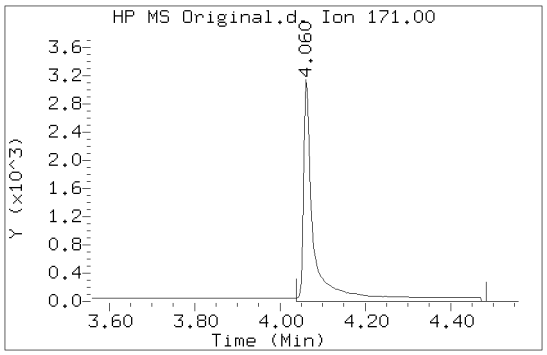
AFTER

MASS
172
AREA
13067
HEIGHT
9360
18-Apr-2024
15:51



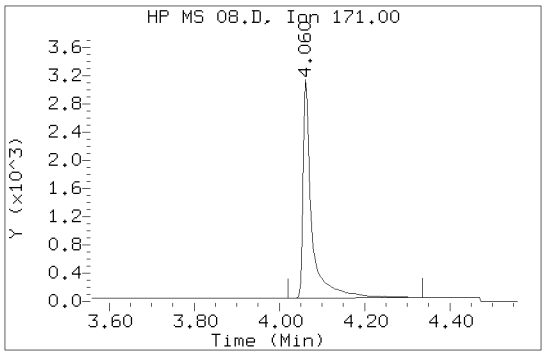
BEFORE

MASS
171
AREA
5828
HEIGHT
3145
18-Apr-2024
14:16
ALSHS
Server



AFTER

MASS
171
AREA
4411
HEIGHT
3096
18-Apr-2024
15:51



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D Page 1
Report Date: 18-Apr-2024 15:51

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Lab Smp Id: 14DX-0.20
Inj Date : 18-APR-2024 14:18
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.20
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 18-Apr-2024 15:51 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:00 Cal File: 08.D
Als bottle: 9 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

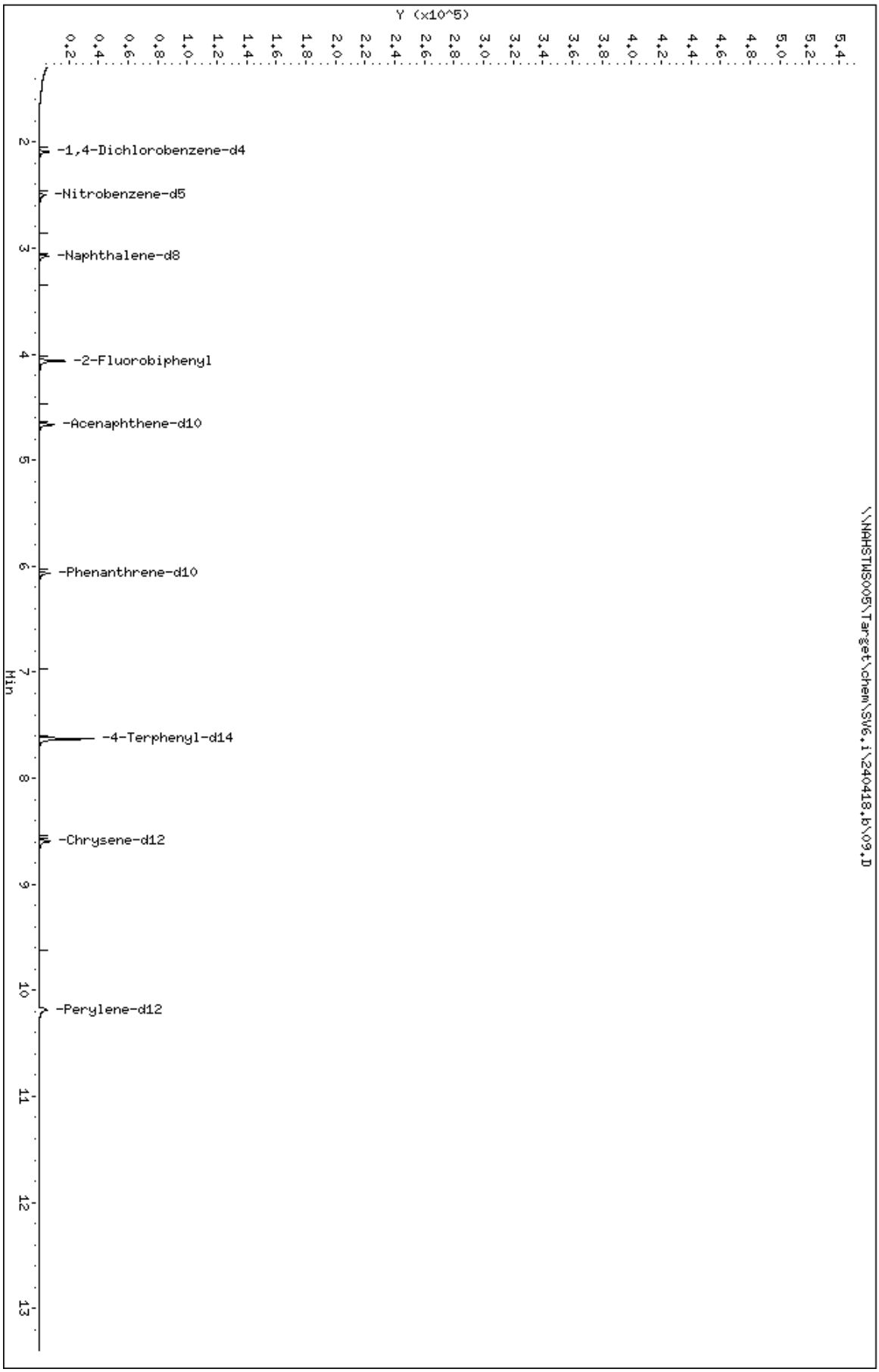
Name	Value	Description
DF	1.000	Dilution Factor
Uf	1.000	ng unit correction factor
Vt	1000.000	Volume of final extract (uL)
Vo	1000.000	Volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (NG)	ON-COL (NG)
* 20 1,4-Dichlorobenzene-d4	152	2.094	2.094	(1.000)	2896	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9147	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.496	(0.812)	5927	0.20000	0.2158(AM)
* 86 Acenaphthene-d10	164	4.665	4.665	(1.000)	5593	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.064	(0.871)	17331	0.20000	0.2027(AM)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10775	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.593	(1.000)	9063	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	39718	0.20000	0.2151(AM)
* 198 Perylene-d12	264	10.184	10.184	(1.000)	8962	0.10000	(M)
1 1,4-Dioxane	58	0.845	0.845	(0.404)	1268	0.20000	0.2044(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.


Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Date : 18-APR-2024 14:18
Client ID:
Sample Info: 14DX-0.20
Purge Volume: 1000.0
Column phase: RTX-5SIL MS
Instrument: SV6.i
Operator: LG
Column diameter: 0.28
Page 1
Y (x10^5)
-1,4-Dichlorobenzene-d4
-Nitrobenzene-d5
-Naphthalene-d8
-2-Fluorobiphenyl
-Acenaphthene-d10
-Phenanthrene-d10
-4-Terphenyl-d14
-Chrysene-d12
-Perylene-d12
Min
\\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D

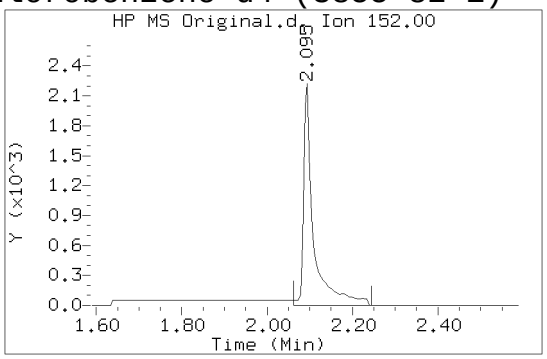
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

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

Reason Code:

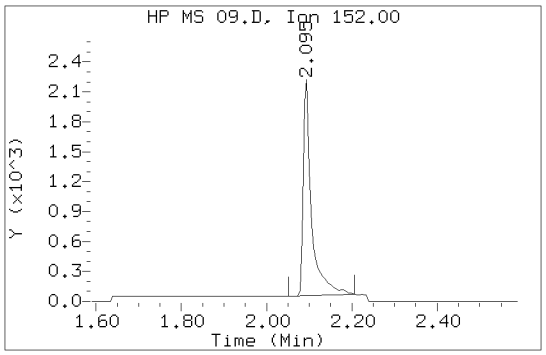
BEFORE

MASS
152
AREA
3565
HEIGHT
2222
18-Apr-2024
14:31
ALSHS
Server



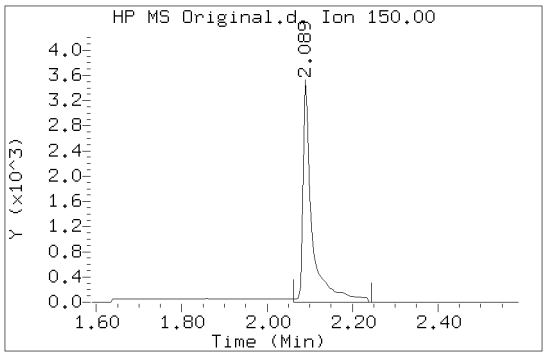
AFTER

MASS
152
AREA
2896
HEIGHT
2165
18-Apr-2024
15:51



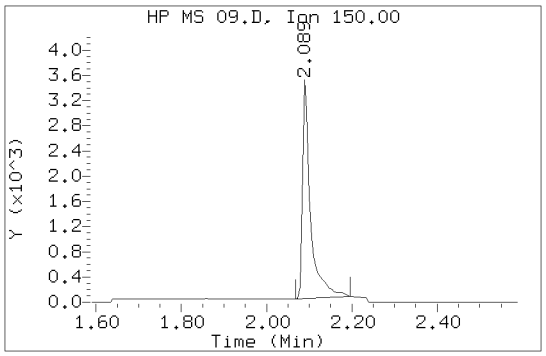
BEFORE

MASS
150
AREA
5268
HEIGHT
3527
18-Apr-2024
14:31
ALSHS
Server



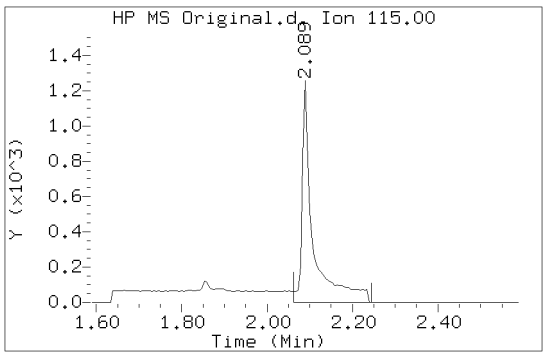
AFTER

MASS
150
AREA
4498
HEIGHT
3469
18-Apr-2024
15:51



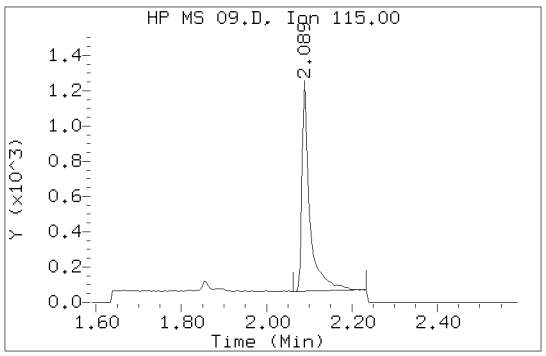
BEFORE

MASS
115
AREA
2227
HEIGHT
1257
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
115
AREA
1525
HEIGHT
1194
18-Apr-2024
15:51

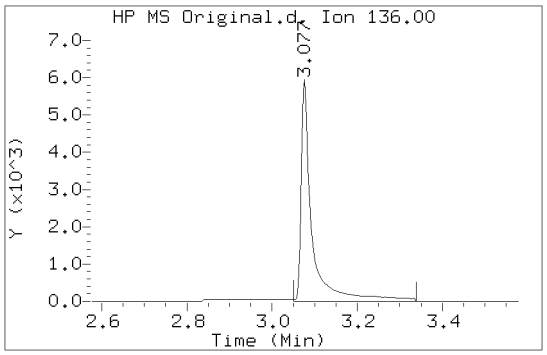


Naphthalene-d8 (1146-65-2)

Reason Code:

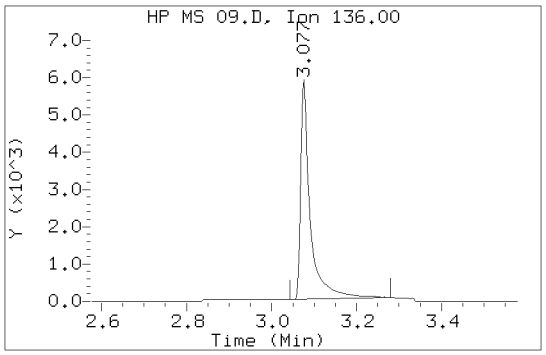
BEFORE

MASS
136
AREA
10466
HEIGHT
5947
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
136
AREA
9147
HEIGHT
5889
18-Apr-2024
15:51



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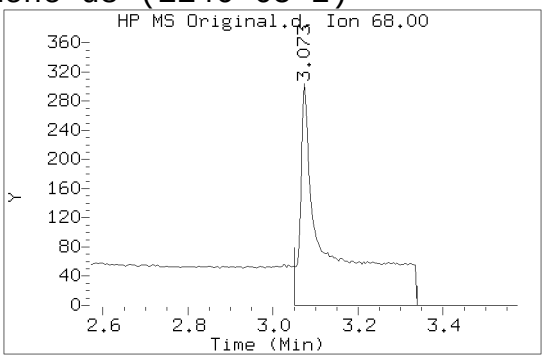
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Naphthalene-d8 (1146-65-2)

Reason Code:

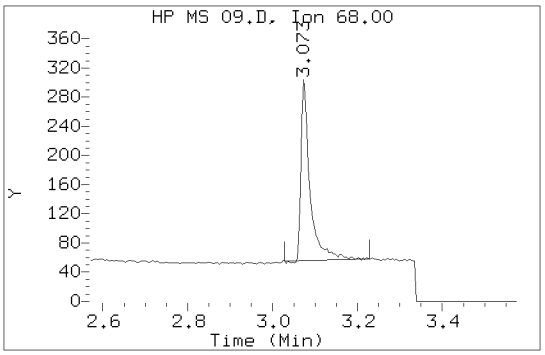
BEFORE

MASS
68
AREA
1344
HEIGHT
304
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
68
AREA
362
HEIGHT
248
18-Apr-2024
15:51

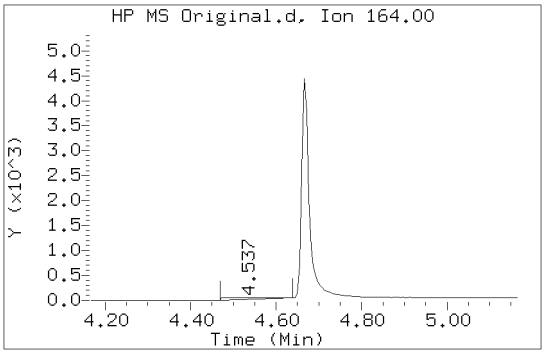


Acenaphthene-d10 (15067-26-2)

Reason Code:

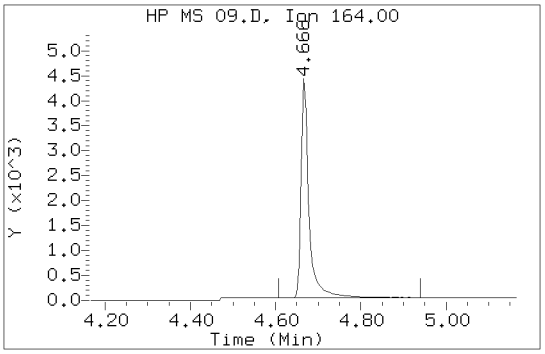
BEFORE

MASS
164
AREA
238
HEIGHT
29
18-Apr-2024
14:31
ALSHS
Server



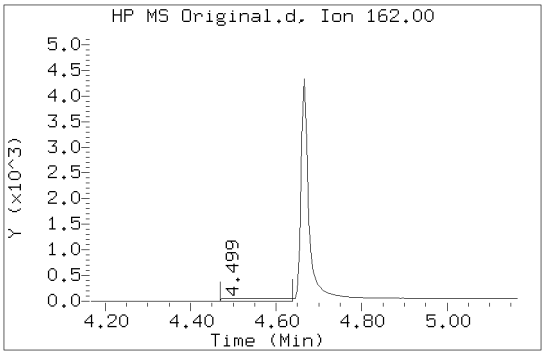
AFTER

MASS
164
AREA
5593
HEIGHT
4390
18-Apr-2024
15:51



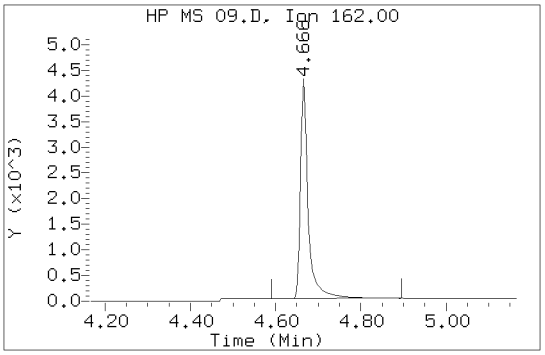
BEFORE

MASS
162
AREA
503
HEIGHT
51
18-Apr-2024
14:31
ALSHS
Server



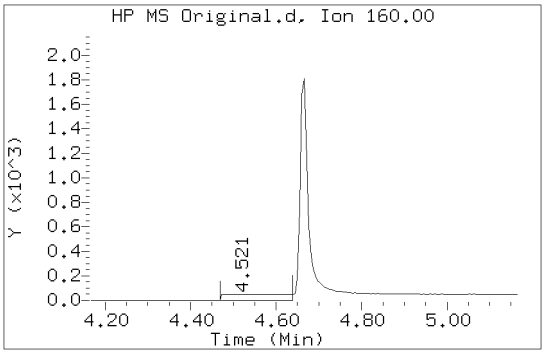
AFTER

MASS
162
AREA
5314
HEIGHT
4281
18-Apr-2024
15:51



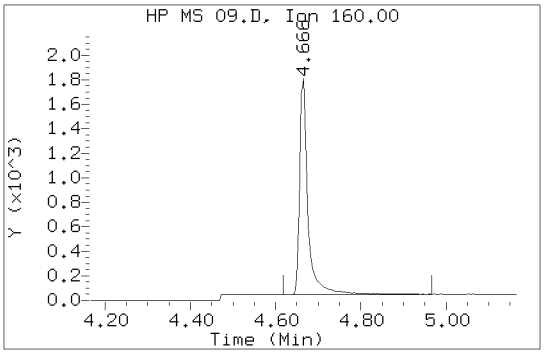
BEFORE

MASS
160
AREA
485
HEIGHT
49
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
160
AREA
2365
HEIGHT
1761
18-Apr-2024
15:51

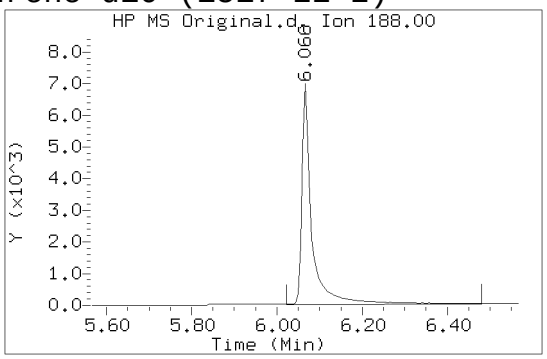


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

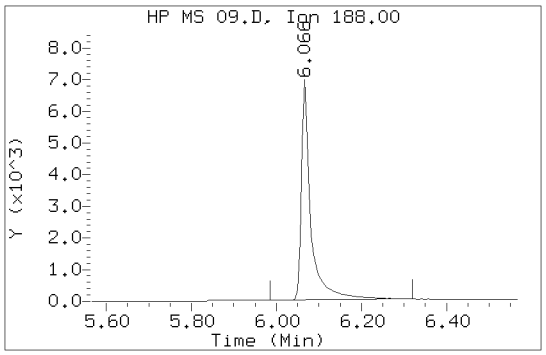
Phenanthrene-d10 (1517-22-2)

Reason Code:

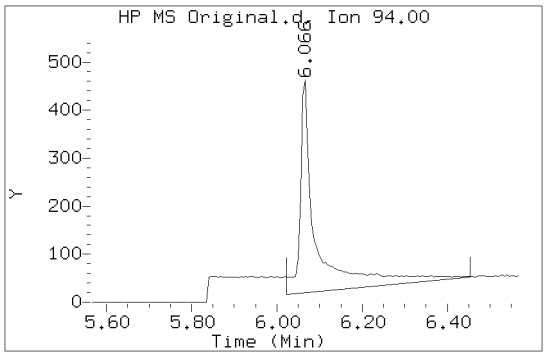
BEFORE
MASS
188
AREA
11617
HEIGHT
6980
18-Apr-2024
14:31
ALSHS
Server



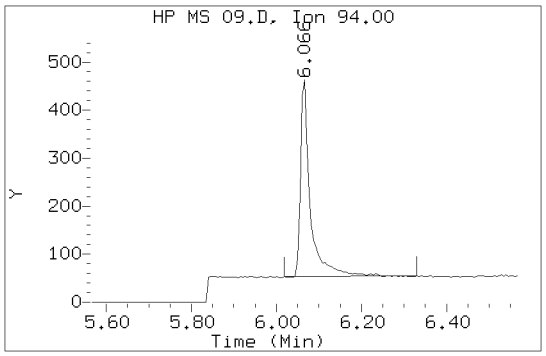
AFTER
MASS
188
AREA
10775
HEIGHT
6945
18-Apr-2024
15:51



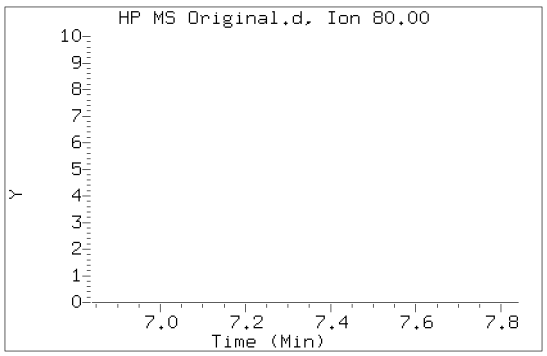
BEFORE
MASS
94
AREA
1175
HEIGHT
443
18-Apr-2024
14:31
ALSHS
Server



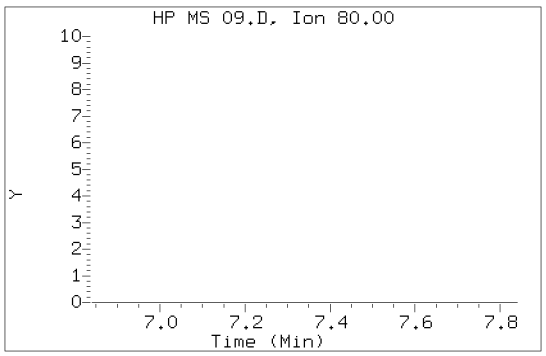
AFTER
MASS
94
AREA
655
HEIGHT
409
18-Apr-2024
15:51



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



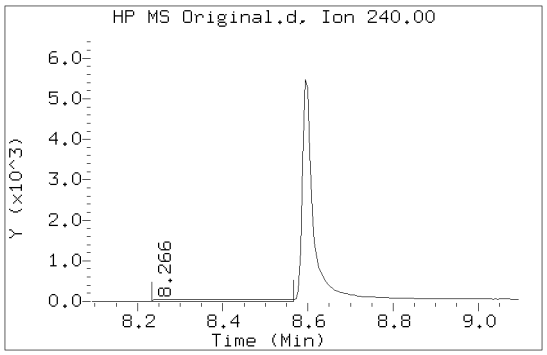
AFTER
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:51



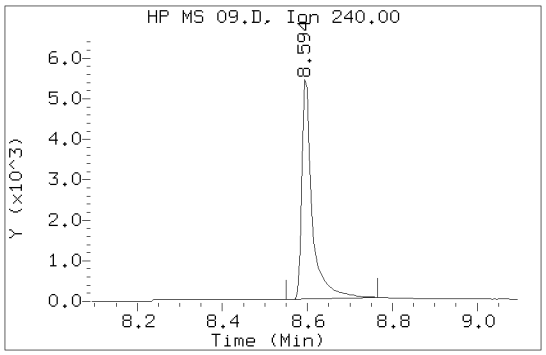
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
966
HEIGHT
50
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
240
AREA
9063
HEIGHT
5411
18-Apr-2024
15:51



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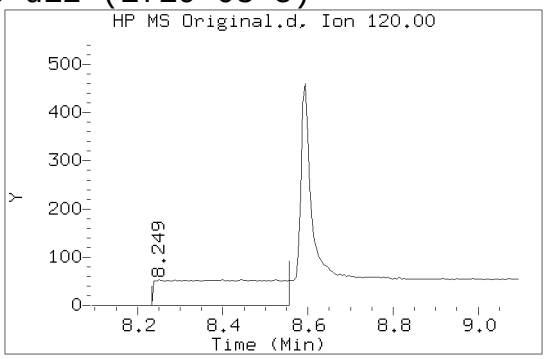
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

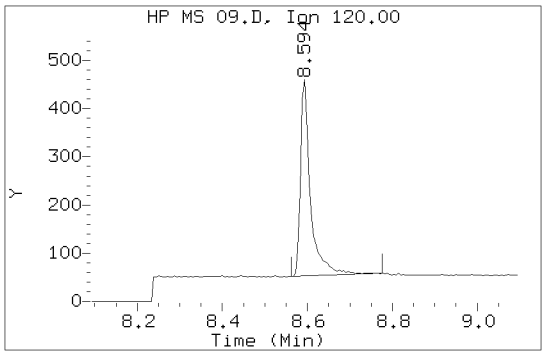
Chrysene-d12 (1719-03-5)

Reason Code:

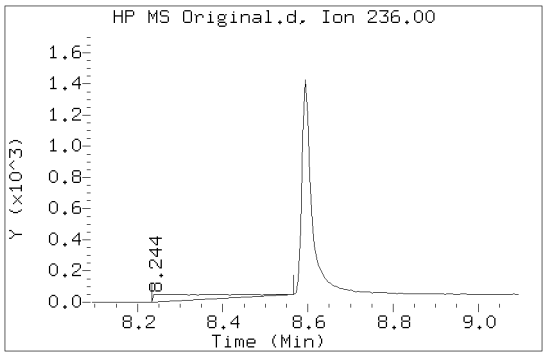
BEFORE
MASS
120
AREA
1000
HEIGHT
53
18-Apr-2024
14:31
ALSHS
Server



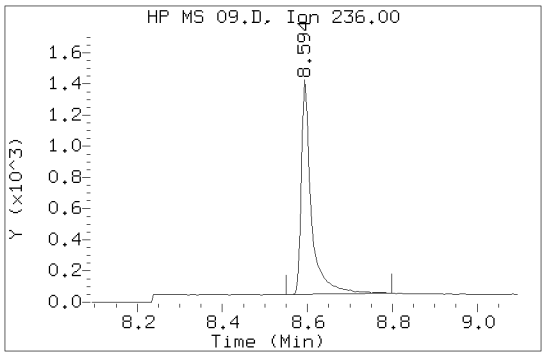
AFTER
MASS
120
AREA
651
HEIGHT
406
18-Apr-2024
15:51



BEFORE
MASS
236
AREA
466
HEIGHT
47
18-Apr-2024
14:31
ALSHS
Server



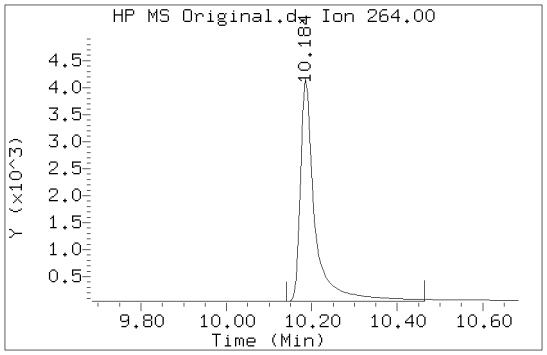
AFTER
MASS
236
AREA
2242
HEIGHT
1376
18-Apr-2024
15:51



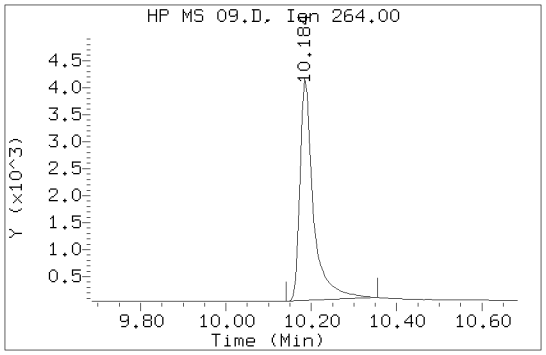
Perylene-d12 (1520-96-3)

Reason Code:

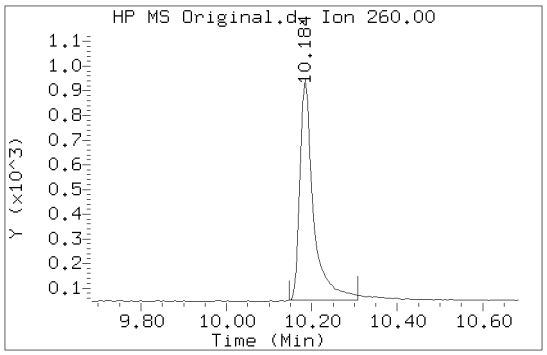
BEFORE
MASS
264
AREA
9658
HEIGHT
4112
18-Apr-2024
14:31
ALSHS
Server



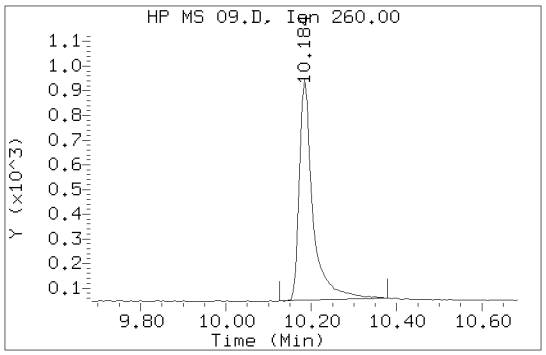
AFTER
MASS
264
AREA
8962
HEIGHT
4099
18-Apr-2024
15:51



BEFORE
MASS
260
AREA
1972
HEIGHT
894
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
260
AREA
1963
HEIGHT
893
18-Apr-2024
15:51



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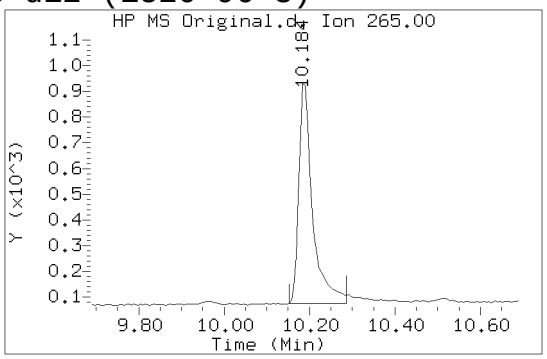
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

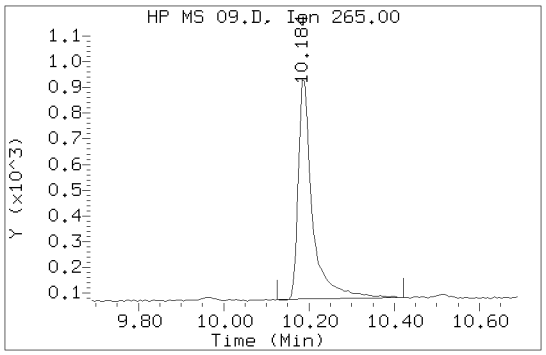
Perylene-d12 (1520-96-3)

Reason Code:

BEFORE
MASS
265
AREA
1909
HEIGHT
854
18-Apr-2024
14:31
ALSHS
Server



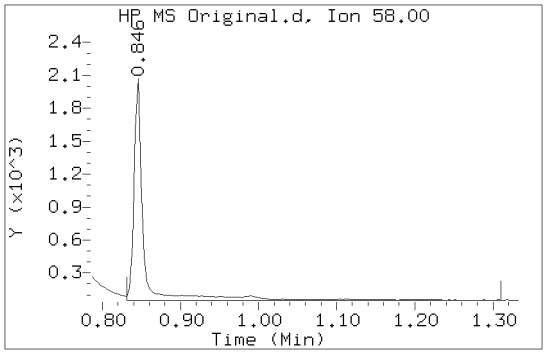
AFTER
MASS
265
AREA
1984
HEIGHT
853
18-Apr-2024
15:51



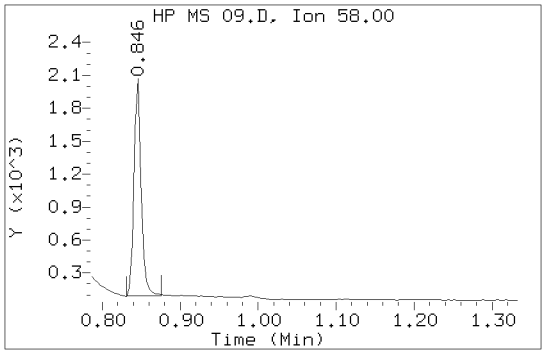
1,4-Dioxane ()

Reason Code:

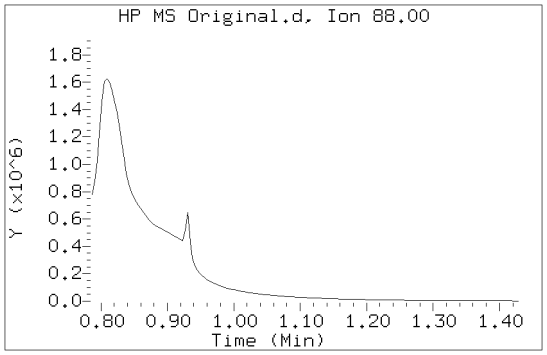
BEFORE
MASS
58
AREA
1746
HEIGHT
2018
18-Apr-2024
14:31
ALSHS
Server



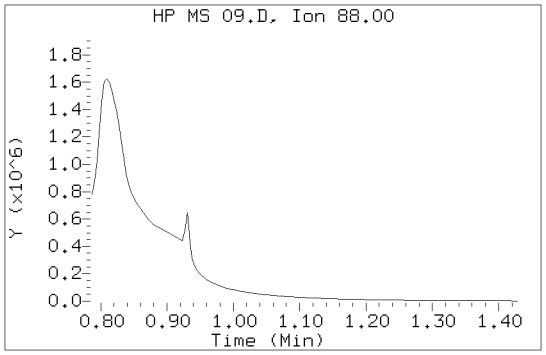
AFTER
MASS
58
AREA
1268
HEIGHT
1979
18-Apr-2024
15:51



BEFORE
MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



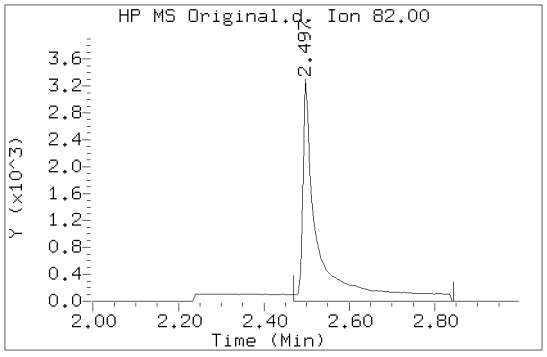
AFTER
MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
15:51



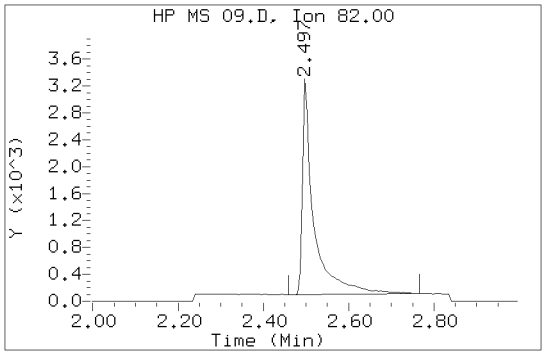
Nitrobenzene-d5 (4165-60-0)

Reason Code:

BEFORE
MASS
82
AREA
8325
HEIGHT
3305
18-Apr-2024
14:31
ALSHS
Server



AFTER
MASS
82
AREA
5927
HEIGHT
3202
18-Apr-2024
15:51



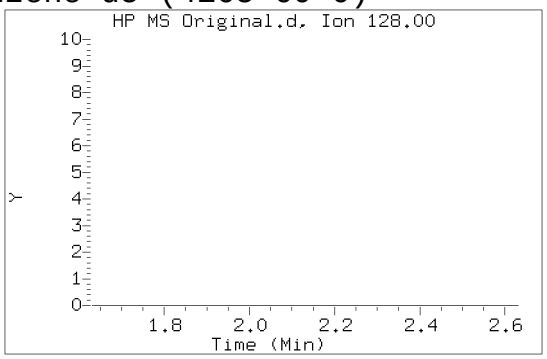
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

Nitrobenzene-d5 (4165-60-0)

Reason Code:

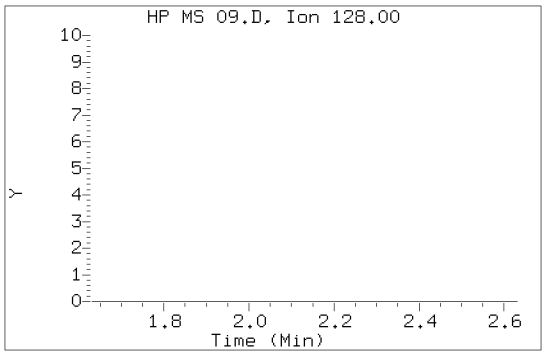
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:31
ALSHS
Server



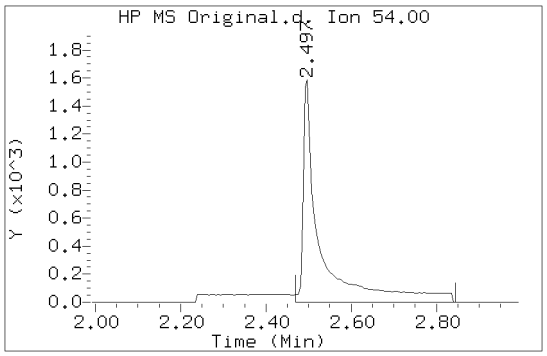
AFTER

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:51



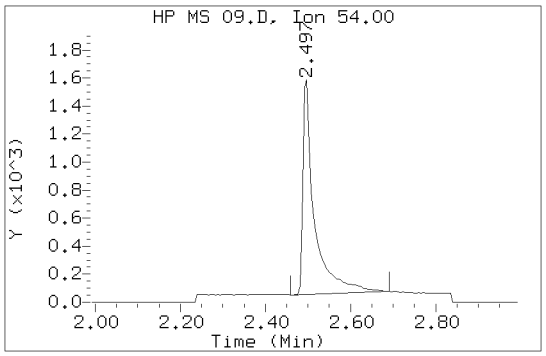
BEFORE

MASS
54
AREA
4354
HEIGHT
1586
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
54
AREA
2914
HEIGHT
1530
18-Apr-2024
15:51

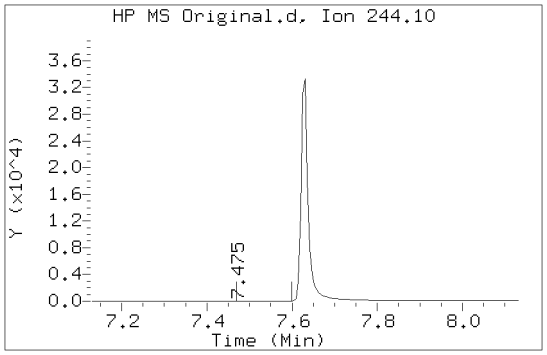


4-Terphenyl-d14 (1718-51-0)

Reason Code:

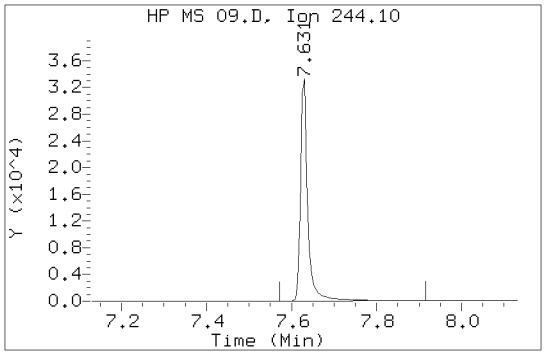
BEFORE

MASS
244.1
AREA
171
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



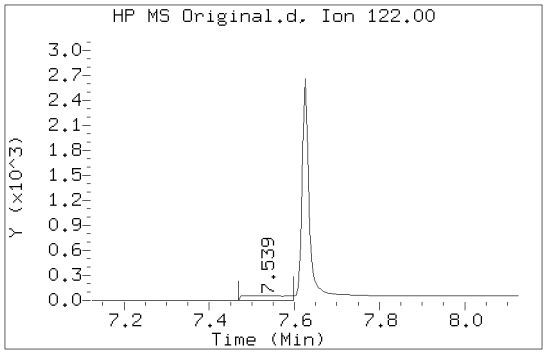
AFTER

MASS
244.1
AREA
39718
HEIGHT
33227
18-Apr-2024
15:51



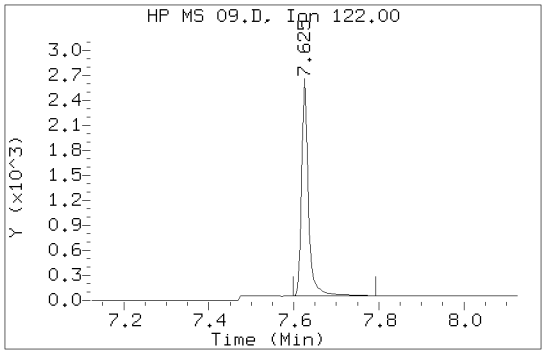
BEFORE

MASS
122
AREA
392
HEIGHT
52
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
122
AREA
2843
HEIGHT
2606
18-Apr-2024
15:51



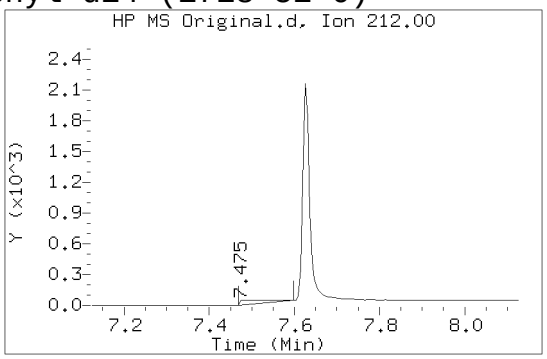
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\09.D
Inj Date : 18-APR-2024 14:18
InstruID : SV6.i
LabSampID : 14DX-0.20

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

Reason Code:

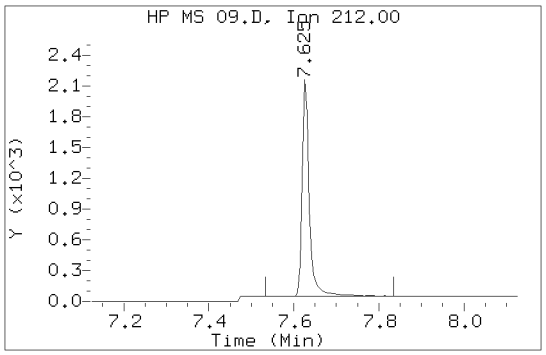
BEFORE

MASS
212
AREA
176
HEIGHT
46
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
212
AREA
2426
HEIGHT
2111
18-Apr-2024
15:51

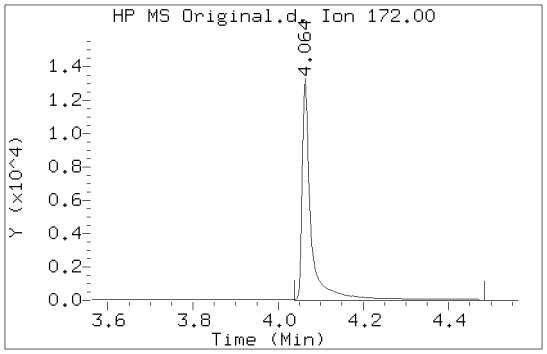


2-Fluorobiphenyl (321-60-8)

Reason Code:

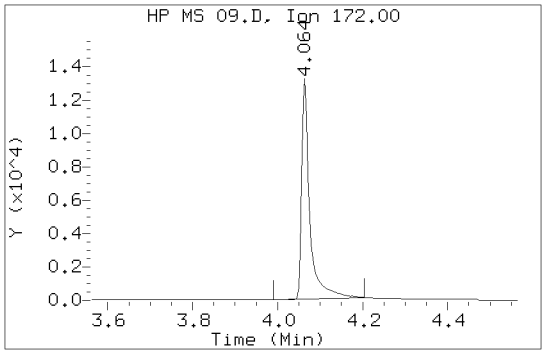
BEFORE

MASS
172
AREA
20172
HEIGHT
13283
18-Apr-2024
14:31
ALSHS
Server



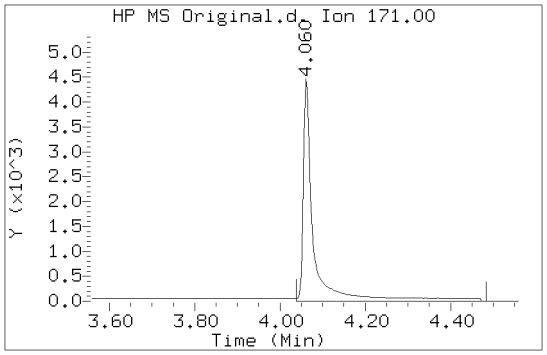
AFTER

MASS
172
AREA
17331
HEIGHT
13194
18-Apr-2024
15:51



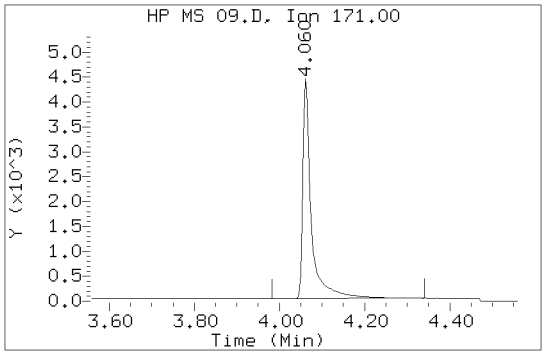
BEFORE

MASS
171
AREA
7647
HEIGHT
4464
18-Apr-2024
14:31
ALSHS
Server



AFTER

MASS
171
AREA
6174
HEIGHT
4414
18-Apr-2024
15:51



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Lab Smp Id: 14DX-0.50
Inj Date : 18-APR-2024 14:35
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.50
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 18-Apr-2024 15:51 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:18 Cal File: 09.D
Als bottle: 10 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	2.089	2.089	(1.000)	2819	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	9772	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.497	2.497	(0.812)	15956	0.50000	0.5439(AM)
* 86 Acenaphthene-d10	164	4.665	4.665	(1.000)	5911	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.064	(0.871)	47534	0.50000	0.5260(AM)
* 126 Phenanthrene-d10	188	6.066	6.066	(1.000)	11325	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.593	(1.000)	9856	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	111493	0.50000	0.5553(AM)
* 198 Perylene-d12	264	10.184	10.184	(1.000)	10138	0.10000	
1 1,4-Dioxane	58	0.831	0.831	(0.398)	2813	0.50000	0.4659(M)

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.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D

Date : 18-APR-2024 14:35

Client ID:

Instrument: SV6.i

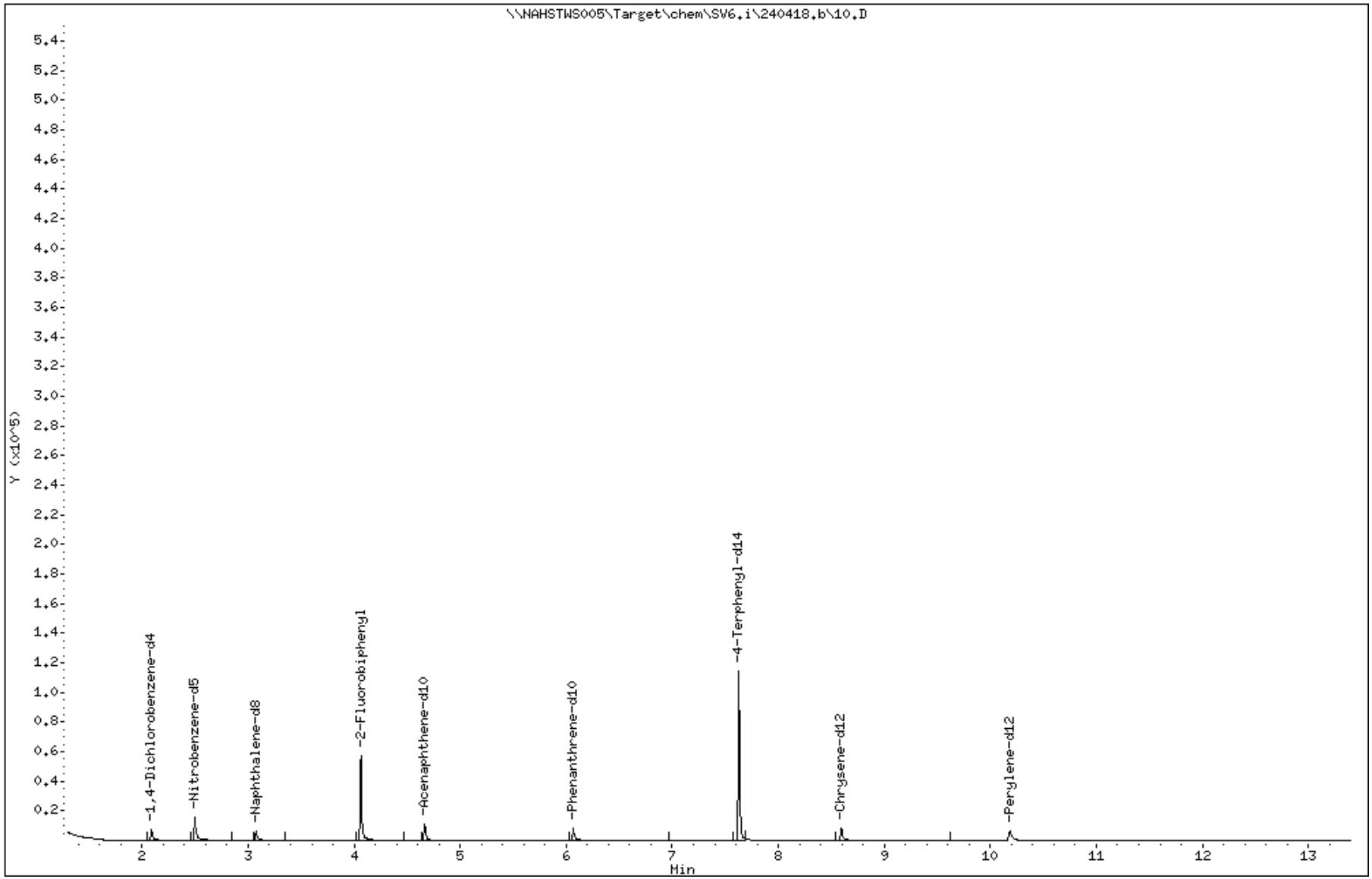
Sample Info: 14DX-0.50

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

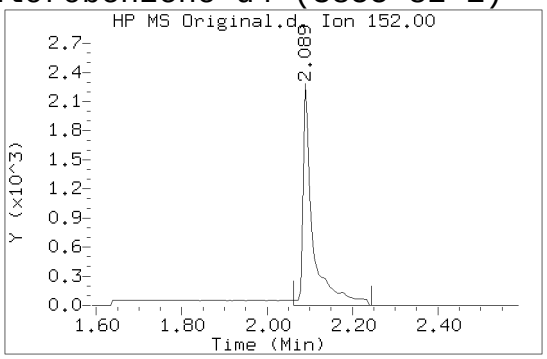


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

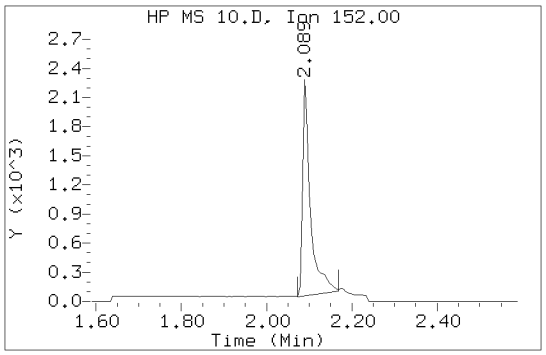
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

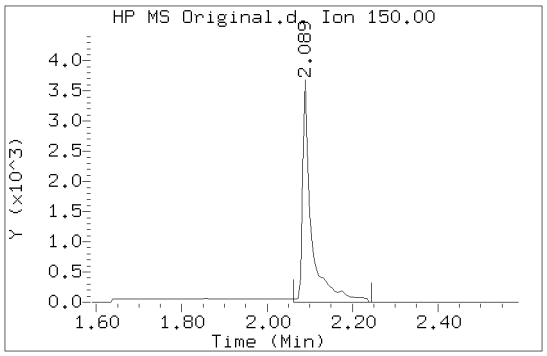
BEFORE
MASS
152
AREA
3637
HEIGHT
2284
18-Apr-2024
14:51
ALSHS
Server



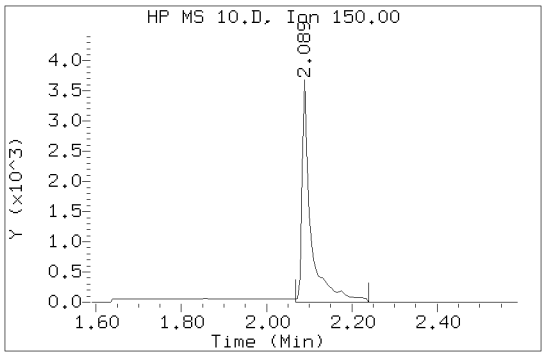
AFTER
MASS
152
AREA
2819
HEIGHT
2227
18-Apr-2024
15:51



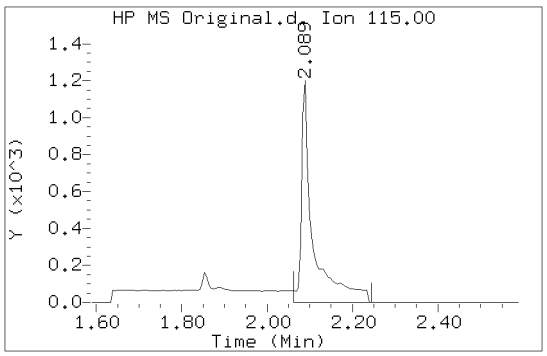
BEFORE
MASS
150
AREA
5370
HEIGHT
3682
18-Apr-2024
14:51
ALSHS
Server



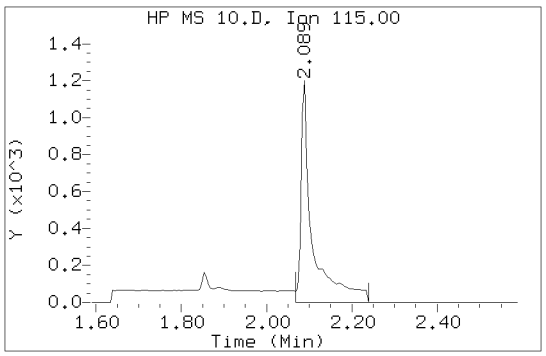
AFTER
MASS
150
AREA
5355
HEIGHT
3682
18-Apr-2024
15:51



BEFORE
MASS
115
AREA
2255
HEIGHT
1200
18-Apr-2024
14:51
ALSHS
Server



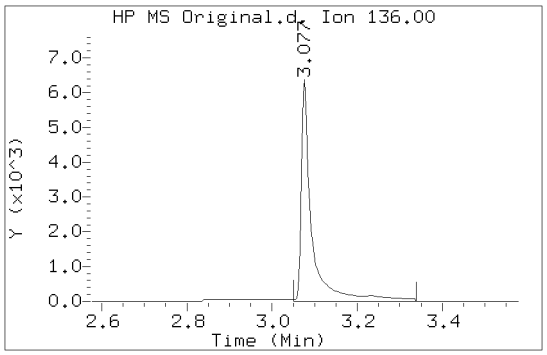
AFTER
MASS
115
AREA
2236
HEIGHT
1200
18-Apr-2024
15:51



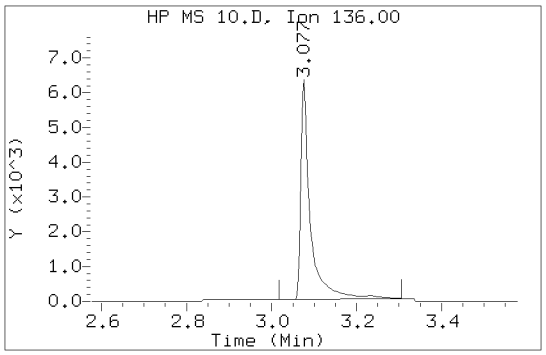
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
10944
HEIGHT
6372
18-Apr-2024
14:51
ALSHS
Server



AFTER
MASS
136
AREA
9772
HEIGHT
6315
18-Apr-2024
15:51



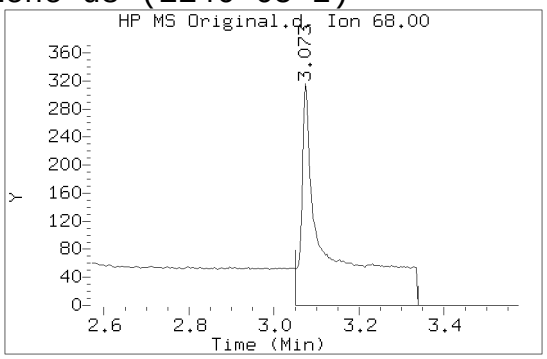
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Naphthalene-d8 (1146-65-2)

Reason Code:

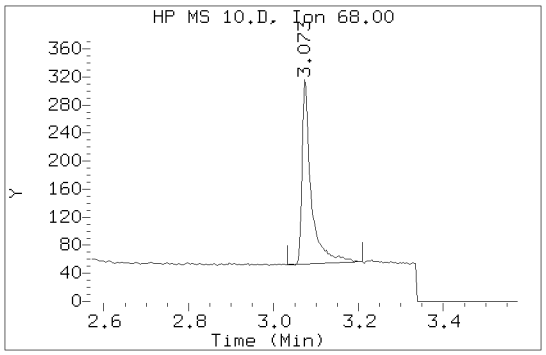
BEFORE

MASS
68
AREA
1337
HEIGHT
316
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
68
AREA
385
HEIGHT
262
18-Apr-2024
15:51

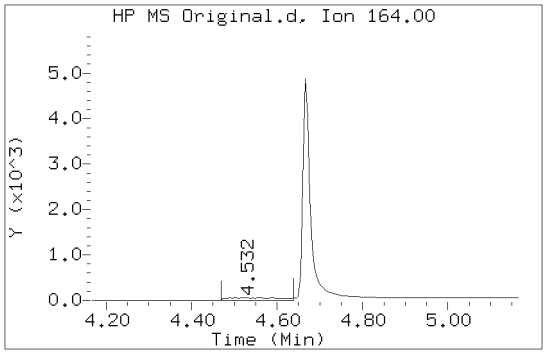


Acenaphthene-d10 (15067-26-2)

Reason Code:

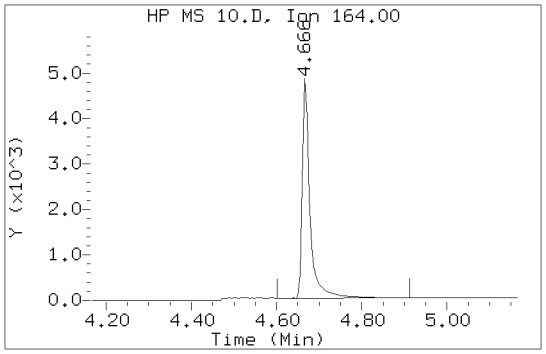
BEFORE

MASS
164
AREA
504
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



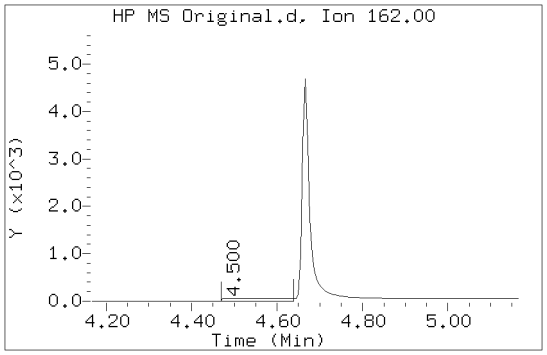
AFTER

MASS
164
AREA
5911
HEIGHT
4828
18-Apr-2024
15:51



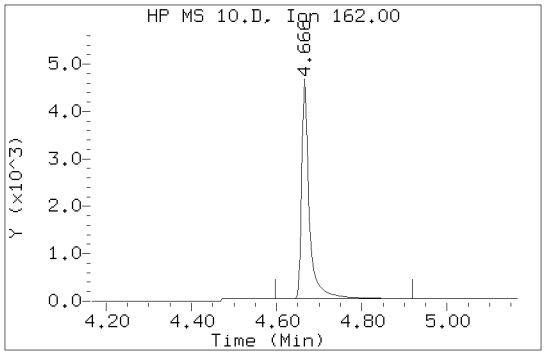
BEFORE

MASS
162
AREA
499
HEIGHT
52
18-Apr-2024
14:51
ALSHS
Server



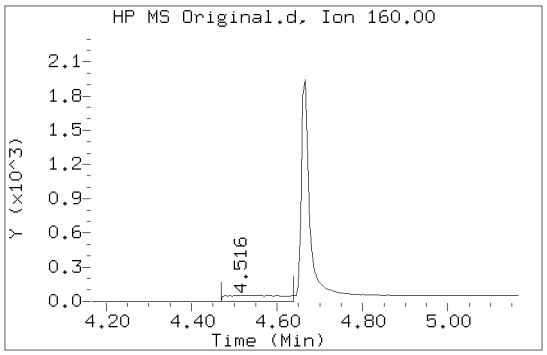
AFTER

MASS
162
AREA
5684
HEIGHT
4637
18-Apr-2024
15:51



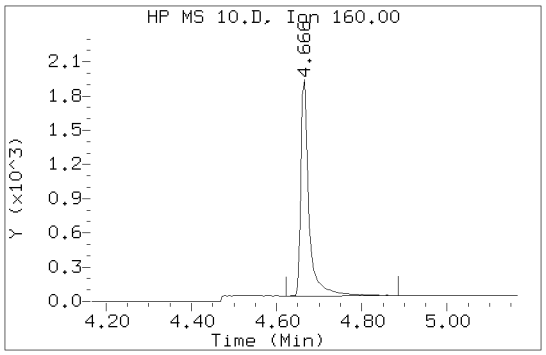
BEFORE

MASS
160
AREA
487
HEIGHT
49
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
160
AREA
2489
HEIGHT
1895
18-Apr-2024
15:51



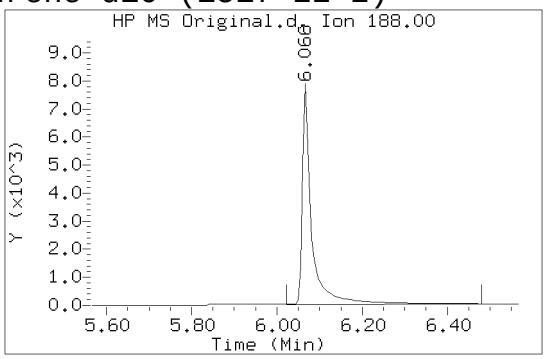
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Phenanthrene-d10 (1517-22-2)

Reason Code:

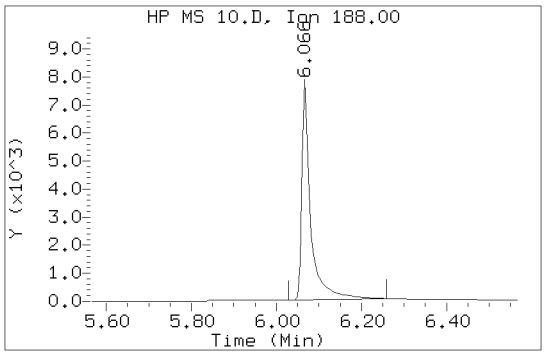
BEFORE

MASS
188
AREA
12429
HEIGHT
7885
18-Apr-2024
14:51
ALSHS
Server



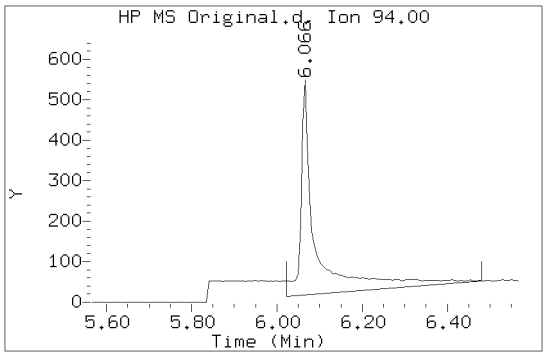
AFTER

MASS
188
AREA
11325
HEIGHT
7848
18-Apr-2024
15:51



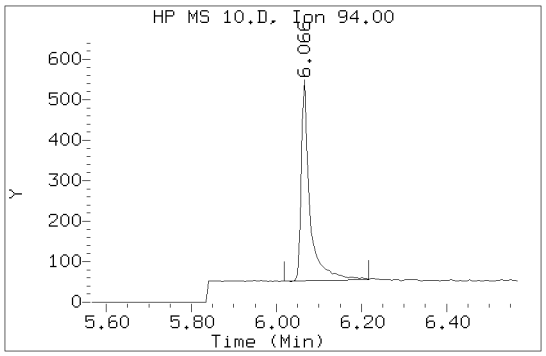
BEFORE

MASS
94
AREA
1281
HEIGHT
530
18-Apr-2024
14:51
ALSHS
Server



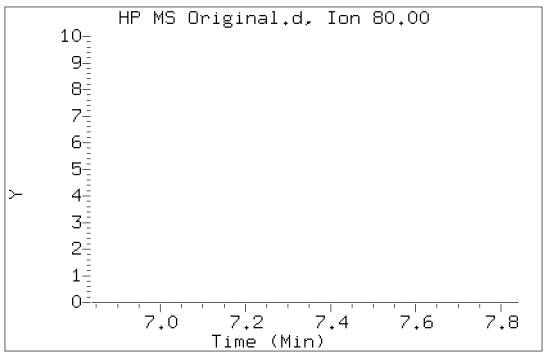
AFTER

MASS
94
AREA
704
HEIGHT
496
18-Apr-2024
15:51



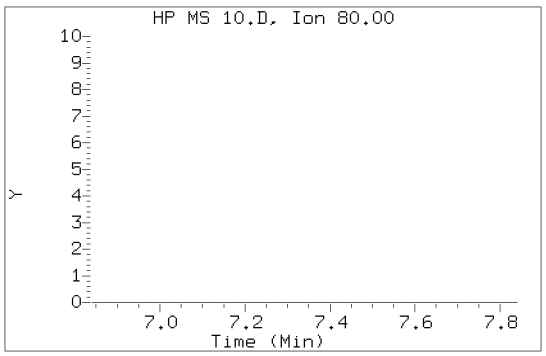
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:51

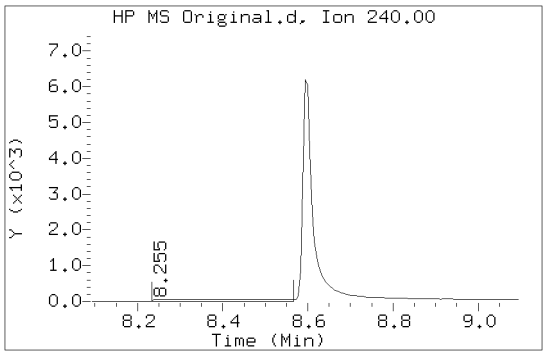


Chrysene-d12 (1719-03-5)

Reason Code:

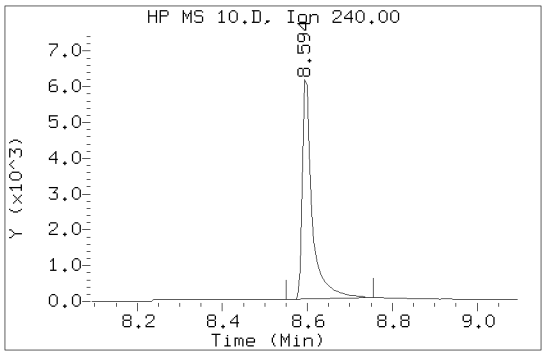
BEFORE

MASS
240
AREA
983
HEIGHT
51
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
240
AREA
9856
HEIGHT
6137
18-Apr-2024
15:51



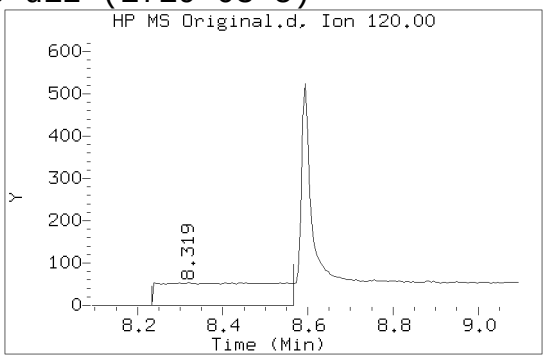
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Chrysene-d12 (1719-03-5)

Reason Code:

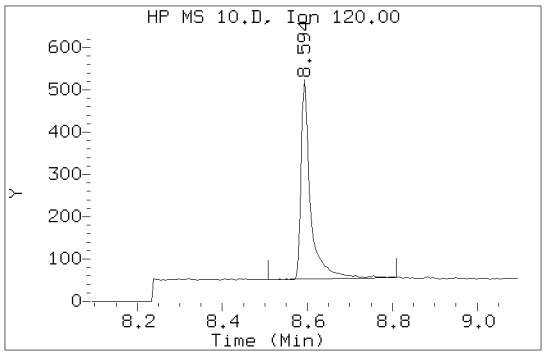
BEFORE

MASS
120
AREA
1034
HEIGHT
54
18-Apr-2024
14:51
ALSHS
Server



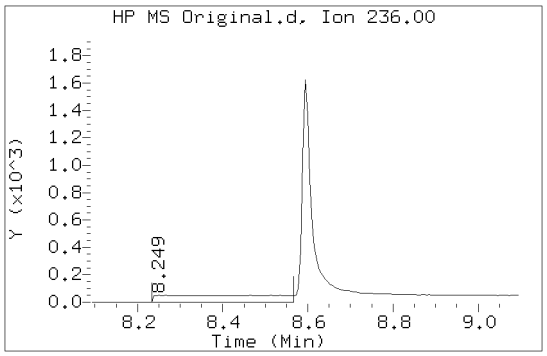
AFTER

MASS
120
AREA
718
HEIGHT
470
18-Apr-2024
15:51



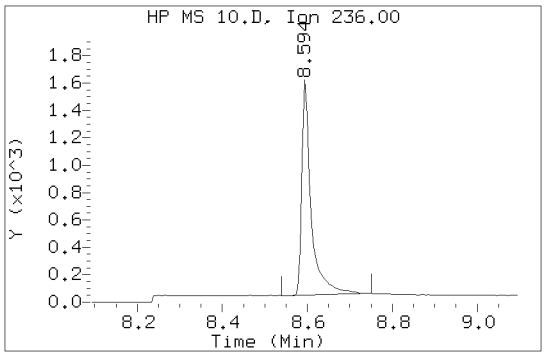
BEFORE

MASS
236
AREA
972
HEIGHT
50
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
236
AREA
2369
HEIGHT
1570
18-Apr-2024
15:51

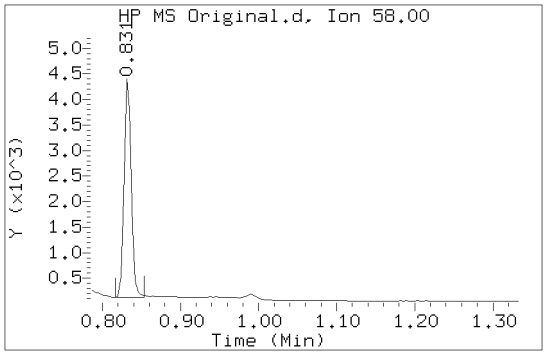


1,4-Dioxane ()

Reason Code:

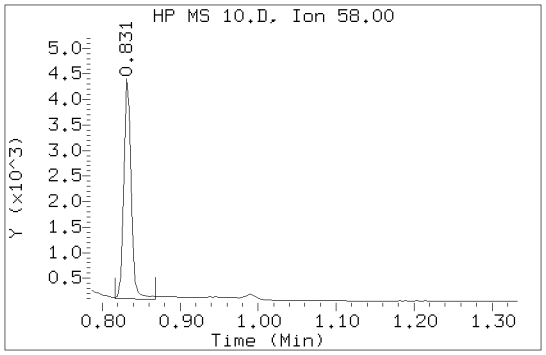
BEFORE

MASS
58
AREA
2715
HEIGHT
4282
18-Apr-2024
14:51
ALSHS
Server



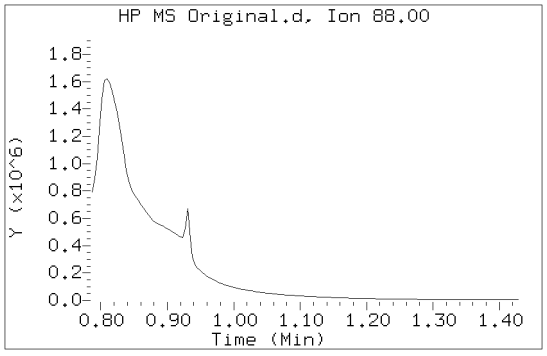
AFTER

MASS
58
AREA
2813
HEIGHT
4303
18-Apr-2024
15:51



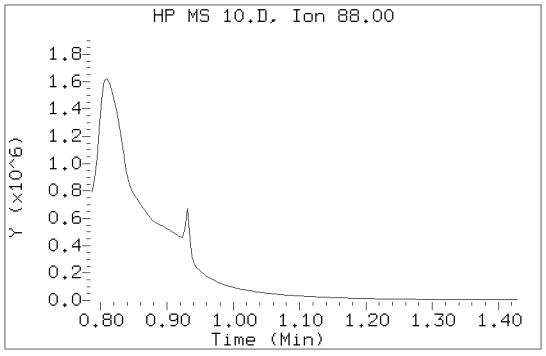
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
15:51



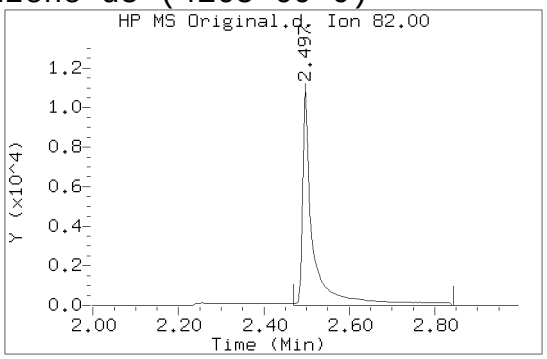
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

Nitrobenzene-d5 (4165-60-0)

Reason Code:

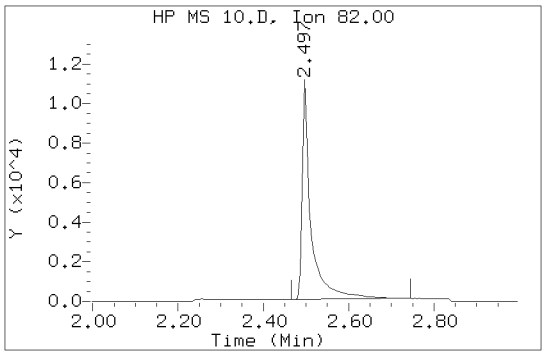
BEFORE

MASS
82
AREA
18735
HEIGHT
11209
18-Apr-2024
14:51
ALSHS
Server



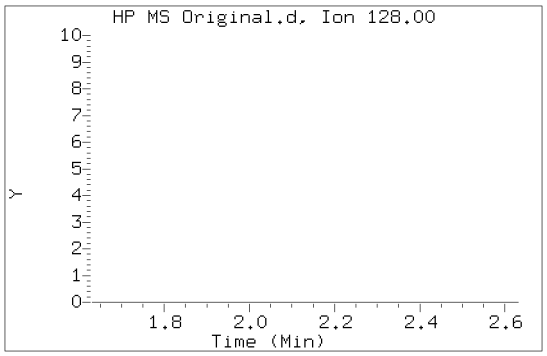
AFTER

MASS
82
AREA
15956
HEIGHT
11102
18-Apr-2024
15:51



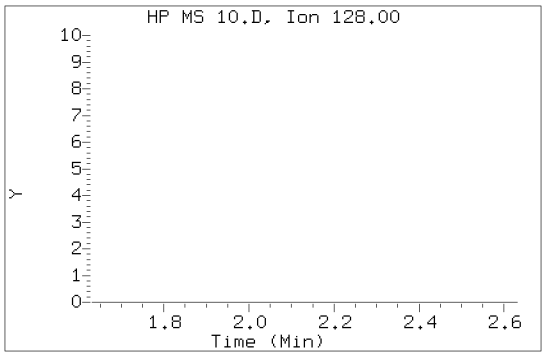
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



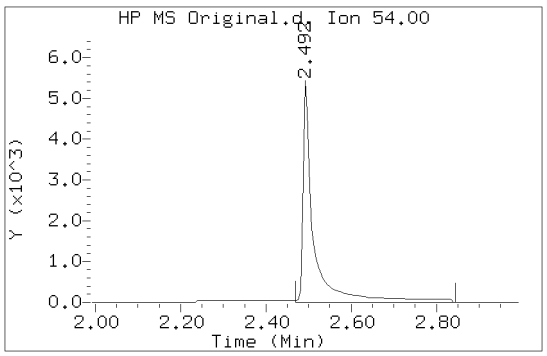
AFTER

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:51



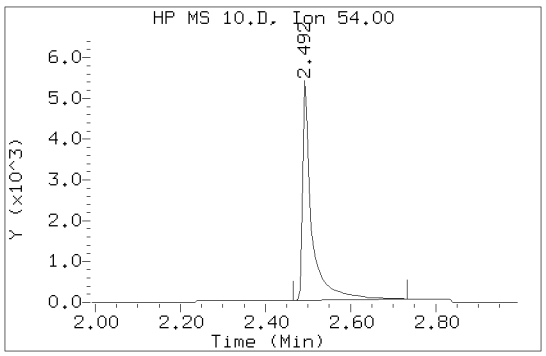
BEFORE

MASS
54
AREA
9543
HEIGHT
5435
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
54
AREA
8025
HEIGHT
5379
18-Apr-2024
15:51

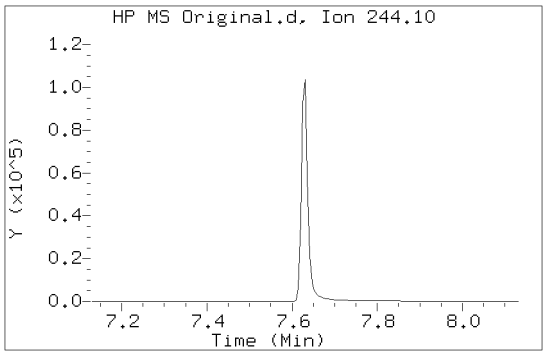


4-Terphenyl-d14 (1718-51-0)

Reason Code:

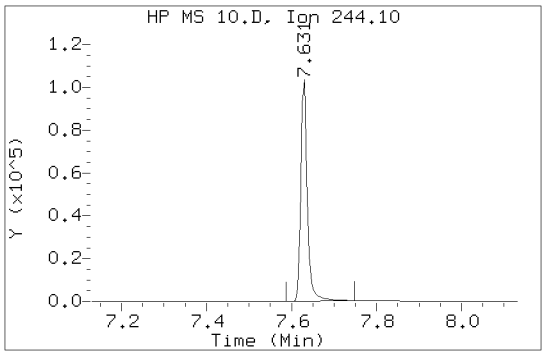
BEFORE

MASS
244.1
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
244.1
AREA
111493
HEIGHT
103434
18-Apr-2024
15:51



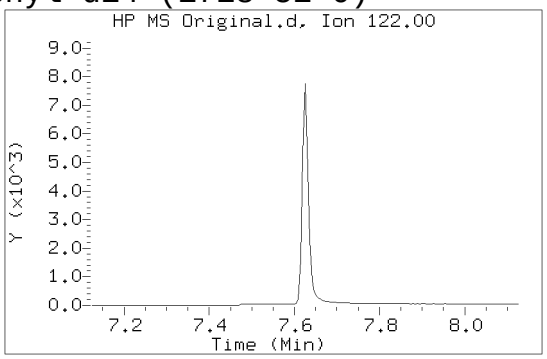
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\10.D
Inj Date : 18-APR-2024 14:35
InstruID : SV6.i
LabSampID : 14DX-0.50

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

Reason Code:

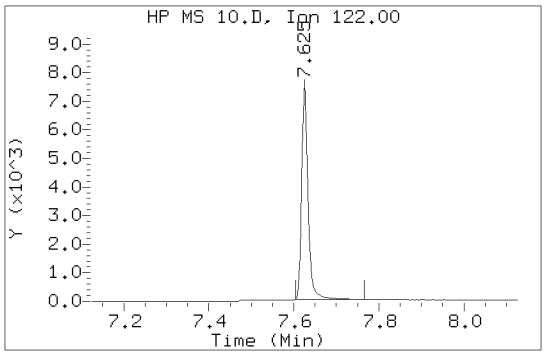
BEFORE

MASS
122
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



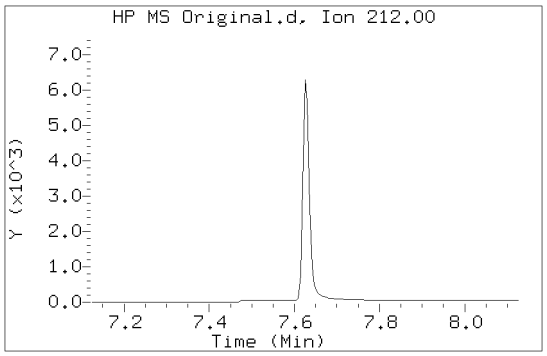
AFTER

MASS
122
AREA
7961
HEIGHT
7695
18-Apr-2024
15:51



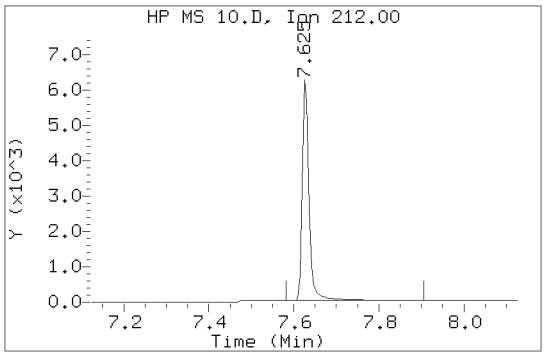
BEFORE

MASS
212
AREA
0
HEIGHT
0
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
212
AREA
6900
HEIGHT
6243
18-Apr-2024
15:51

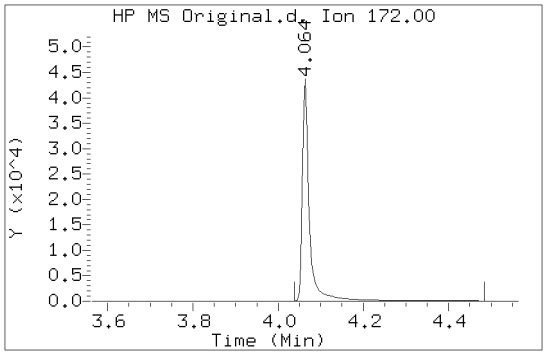


2-Fluorobiphenyl (321-60-8)

Reason Code:

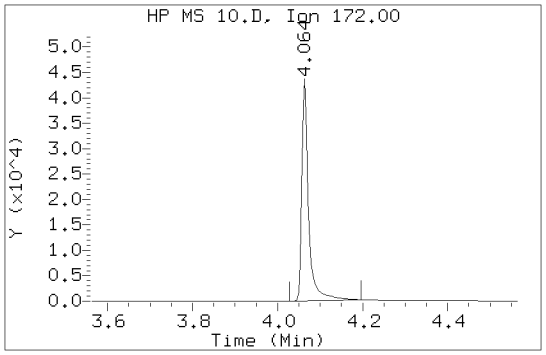
BEFORE

MASS
172
AREA
51564
HEIGHT
43720
18-Apr-2024
14:51
ALSHS
Server



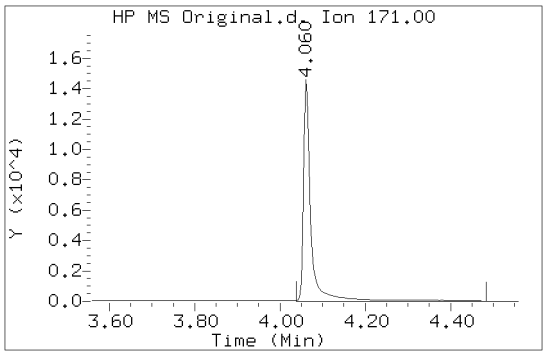
AFTER

MASS
172
AREA
47534
HEIGHT
43625
18-Apr-2024
15:51



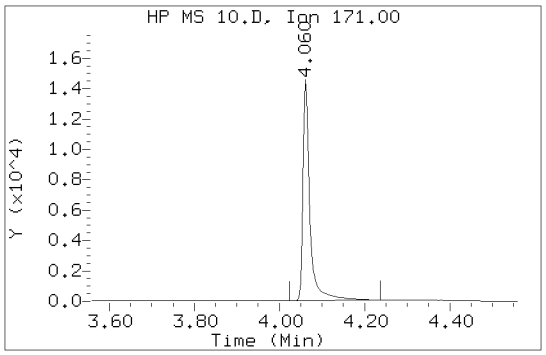
BEFORE

MASS
171
AREA
18313
HEIGHT
14592
18-Apr-2024
14:51
ALSHS
Server



AFTER

MASS
171
AREA
16377
HEIGHT
14537
18-Apr-2024
15:51



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D Page 1
Report Date: 05-Jun-2024 11:38

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Lab Smp Id: 14DX ICV-0.08 Client Smp ID: 14DX ICV-0.08
Inj Date : 18-APR-2024 14:53
Operator : LG Inst ID: SV6.i
Smp Info : 14DX ICV-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 22-May-2024 14:23 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 11 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	2.094	2.089	(1.000)	2645	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	7708	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.496	2.497	(0.812)	1691	0.07308	0.07308(M)
* 86 Acenaphthene-d10	164	4.665	4.665	(1.000)	5072	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.064	(0.871)	5460	0.07042	0.07042(M)
* 126 Phenanthrene-d10	188	6.065	6.066	(1.000)	10292	0.10000	(M)
* 182 Chrysene-d12	240	8.593	8.593	(1.000)	7884	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	11331	0.07055	0.07055(M)
* 198 Perylene-d12	264	10.184	10.184	(1.000)	8007	0.10000	
1 1,4-Dioxane	58	0.838	0.831	(0.400)	429	0.07572	0.07572

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\SV6.i\240418.b\11.D

Date : 18-APR-2024 14:53

Client ID: 14DX ICV-0.08

Instrument: SV6.i

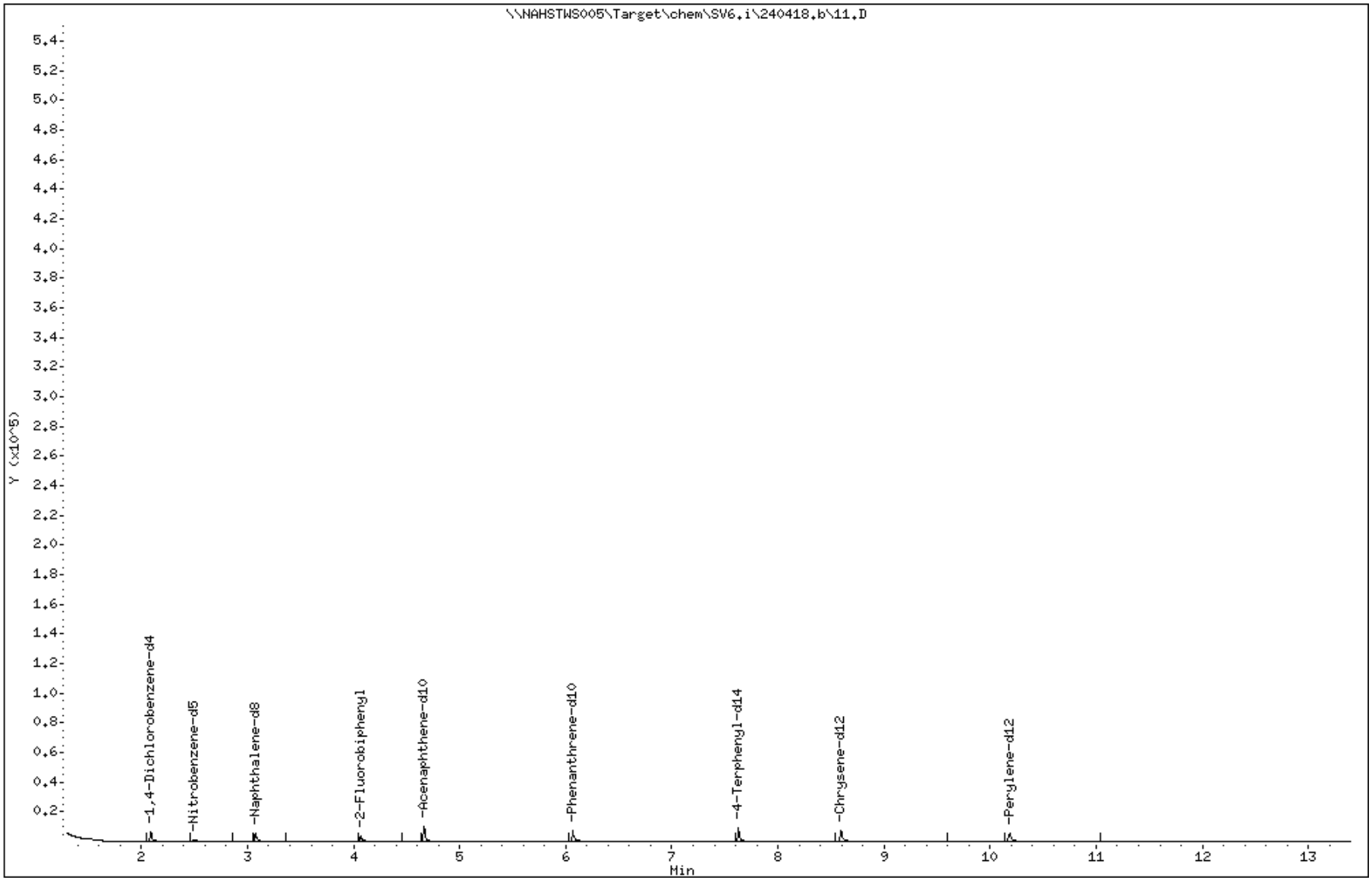
Sample Info: 14DX ICV-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



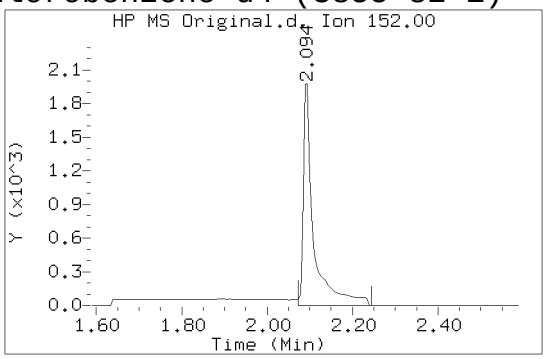
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

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

Reason Code:

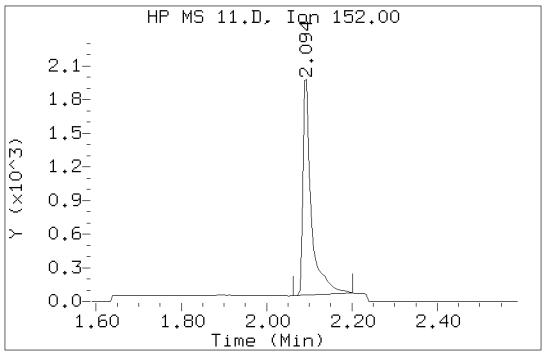
BEFORE

MASS
152
AREA
3284
HEIGHT
1978
18-Apr-2024
15:08
ALSHS
Server



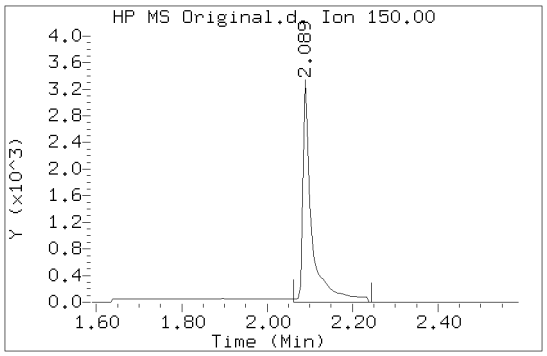
AFTER

MASS
152
AREA
2645
HEIGHT
1921
05-Jun-2024
11:38
ALSHS



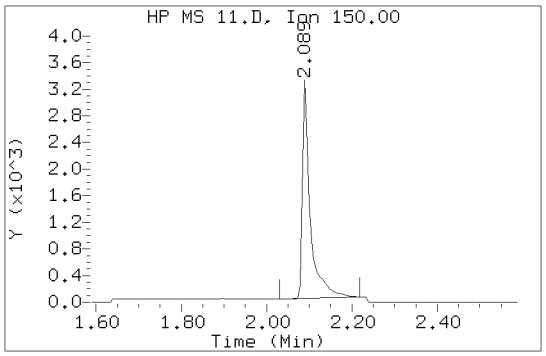
BEFORE

MASS
150
AREA
4880
HEIGHT
3340
18-Apr-2024
15:08
ALSHS
Server



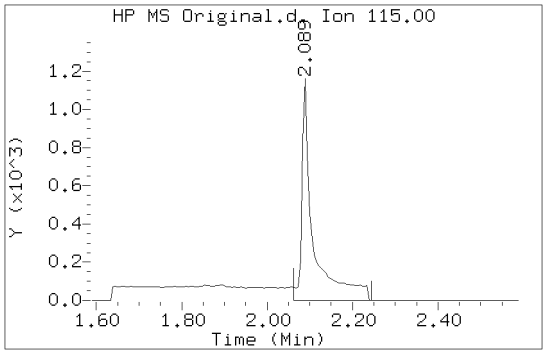
AFTER

MASS
150
AREA
4160
HEIGHT
3281
05-Jun-2024
11:38
ALSHS



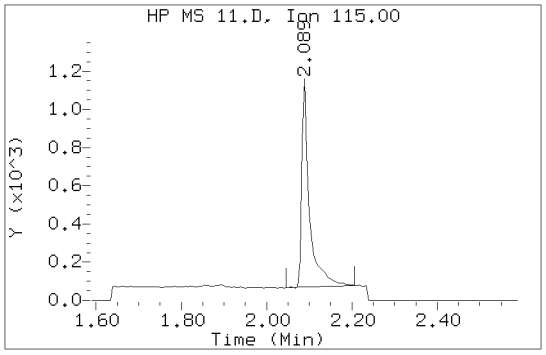
BEFORE

MASS
115
AREA
2134
HEIGHT
1161
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
115
AREA
1363
HEIGHT
1092
05-Jun-2024
11:38
ALSHS

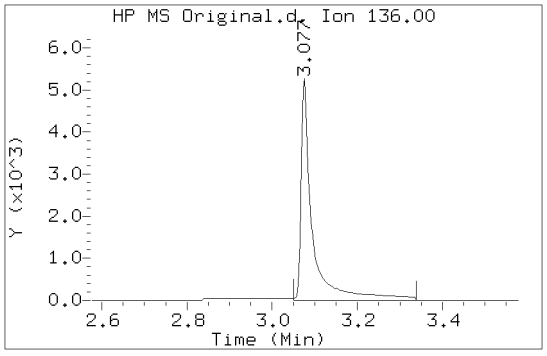


Naphthalene-d8 (1146-65-2)

Reason Code:

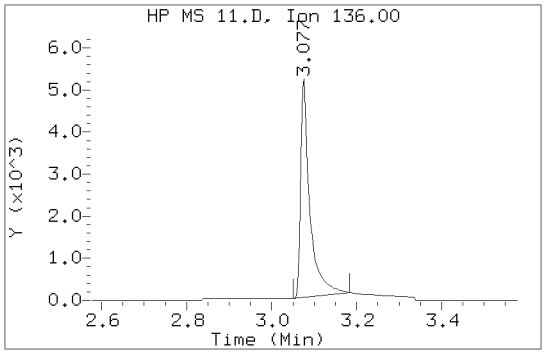
BEFORE

MASS
136
AREA
9692
HEIGHT
5268
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
136
AREA
7708
HEIGHT
5193
05-Jun-2024
11:38
ALSHS



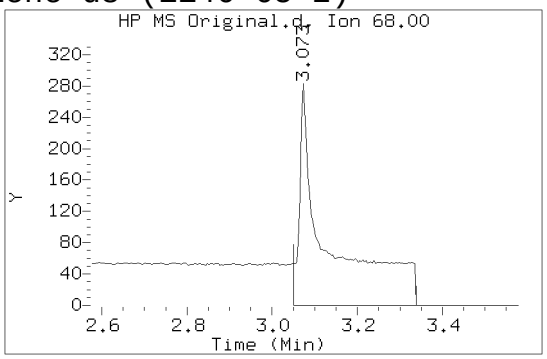
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

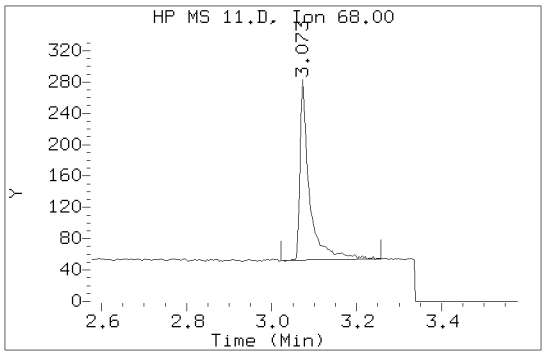
BEFORE

MASS
68
AREA
1275
HEIGHT
283
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
68
AREA
353
HEIGHT
230
05-Jun-2024
11:38
ALSHS

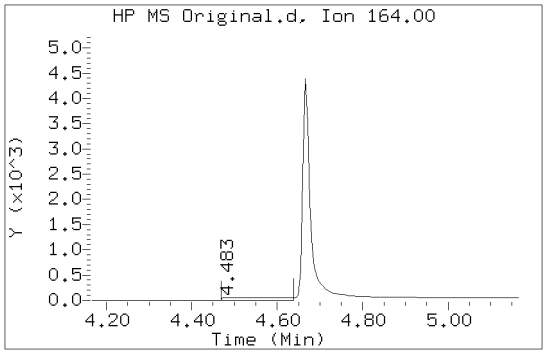


Acenaphthene-d10 (15067-26-2)

Reason Code:

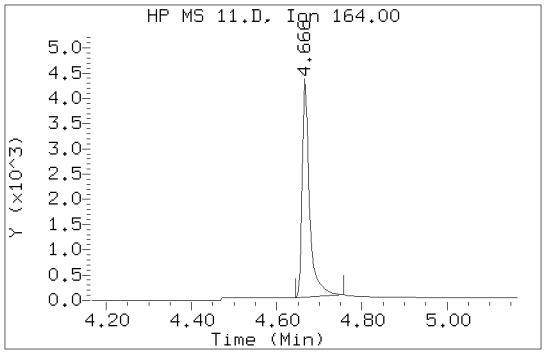
BEFORE

MASS
164
AREA
510
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



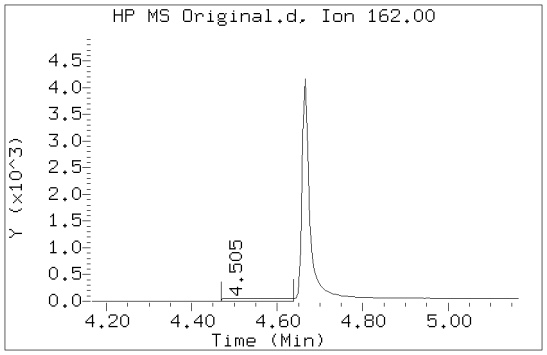
AFTER

MASS
164
AREA
5072
HEIGHT
4329
05-Jun-2024
11:38
ALSHS



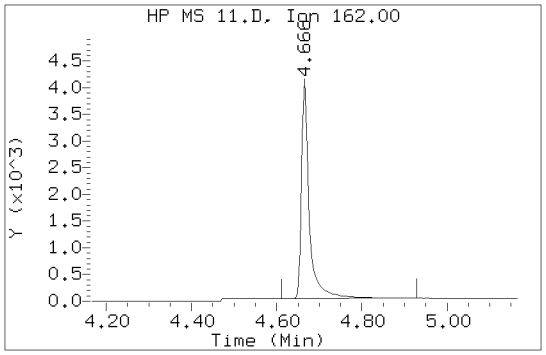
BEFORE

MASS
162
AREA
503
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



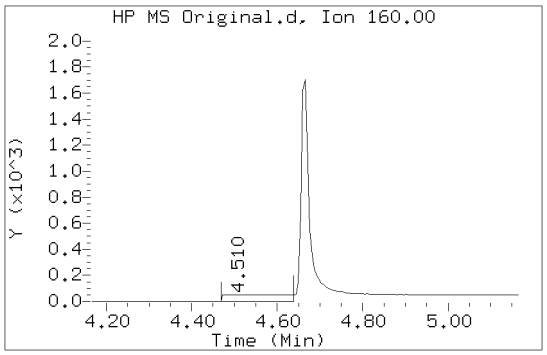
AFTER

MASS
162
AREA
5122
HEIGHT
4113
05-Jun-2024
11:38
ALSHS



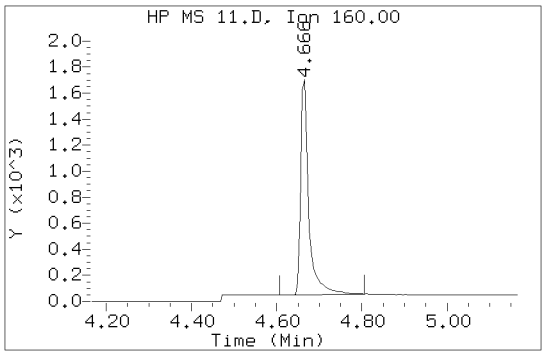
BEFORE

MASS
160
AREA
484
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
160
AREA
2174
HEIGHT
1653
05-Jun-2024
11:38
ALSHS



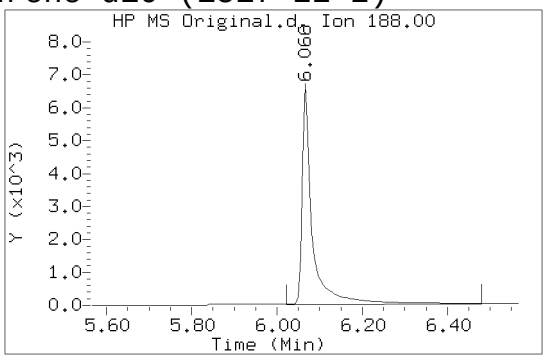
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

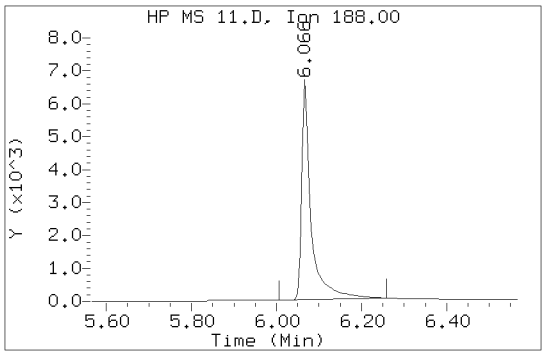
BEFORE

MASS
188
AREA
11412
HEIGHT
6713
18-Apr-2024
15:08
ALSHS
Server



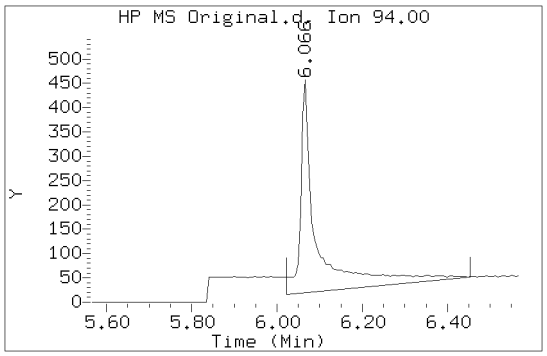
AFTER

MASS
188
AREA
10292
HEIGHT
6674
05-Jun-2024
11:38
ALSHS



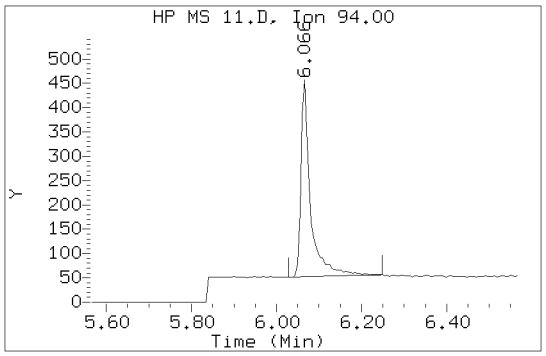
BEFORE

MASS
94
AREA
1149
HEIGHT
437
18-Apr-2024
15:08
ALSHS
Server



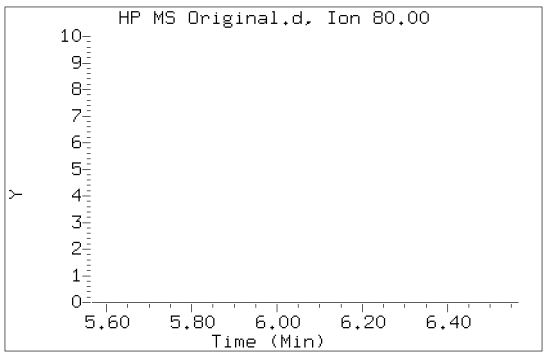
AFTER

MASS
94
AREA
624
HEIGHT
404
05-Jun-2024
11:38
ALSHS



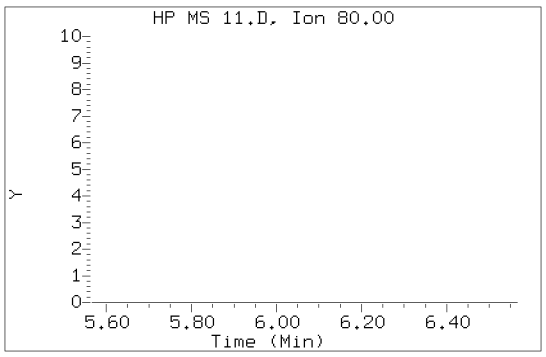
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
05-Jun-2024
11:38
ALSHS

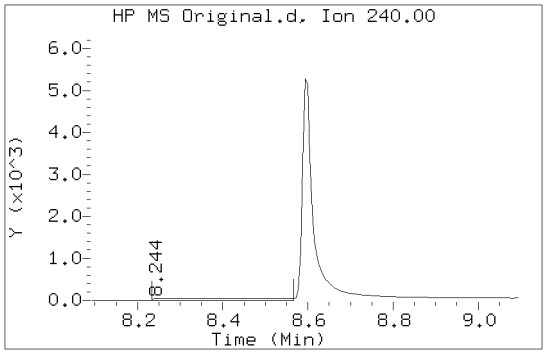


Chrysene-d12 (1719-03-5)

Reason Code:

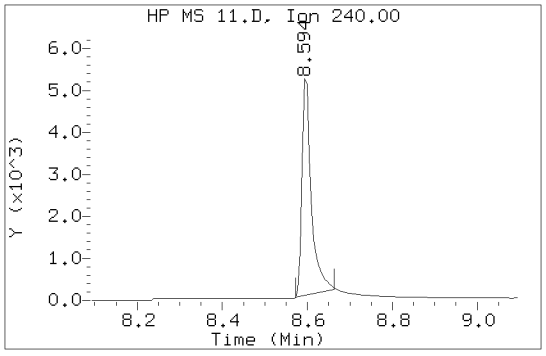
BEFORE

MASS
240
AREA
945
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
240
AREA
7884
HEIGHT
5168
05-Jun-2024
11:38
ALSHS

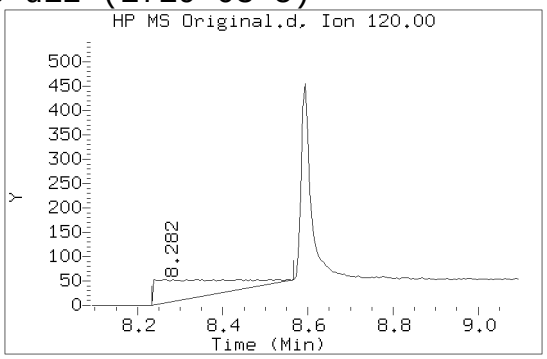


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

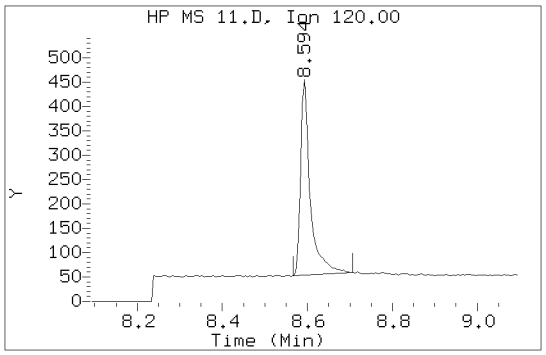
Chrysene-d12 (1719-03-5)

Reason Code:

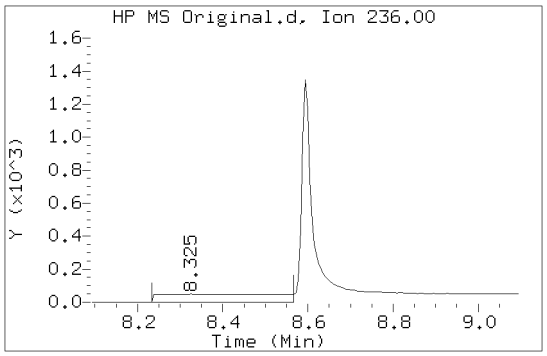
BEFORE
MASS
120
AREA
488
HEIGHT
45
18-Apr-2024
15:08
ALSHS
Server



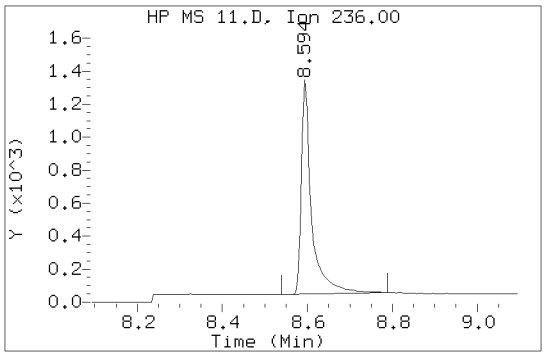
AFTER
MASS
120
AREA
625
HEIGHT
400
05-Jun-2024
11:38
ALSHS



BEFORE
MASS
236
AREA
948
HEIGHT
49
18-Apr-2024
15:08
ALSHS
Server



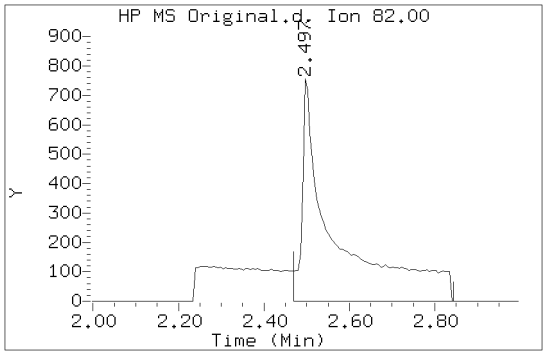
AFTER
MASS
236
AREA
2142
HEIGHT
1296
05-Jun-2024
11:38
ALSHS



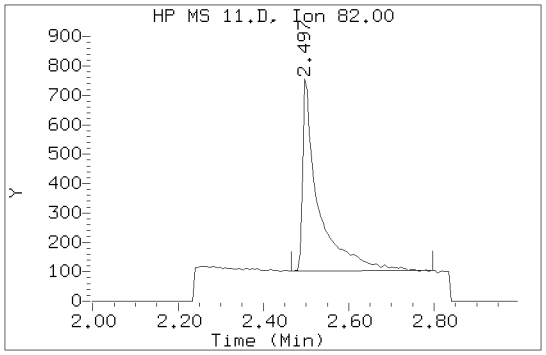
Nitrobenzene-d5 (4165-60-0)

Reason Code:

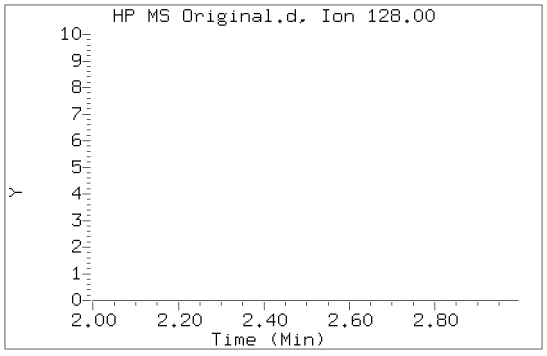
BEFORE
MASS
82
AREA
3957
HEIGHT
756
18-Apr-2024
15:08
ALSHS
Server



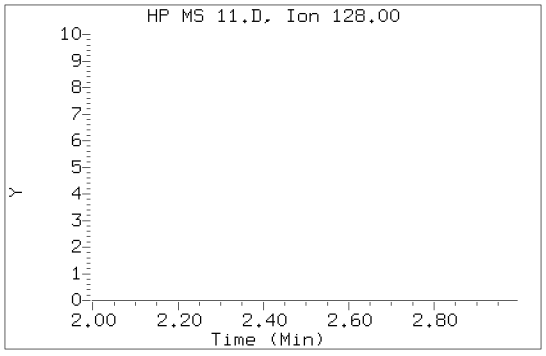
AFTER
MASS
82
AREA
1691
HEIGHT
653
05-Jun-2024
11:38
ALSHS



BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
15:08
ALSHS
Server



AFTER
MASS
128
AREA
0
HEIGHT
0
05-Jun-2024
11:38
ALSHS



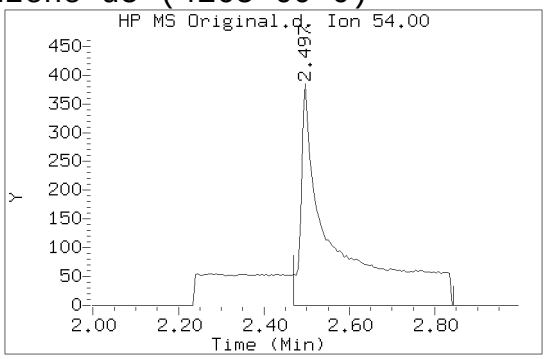
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

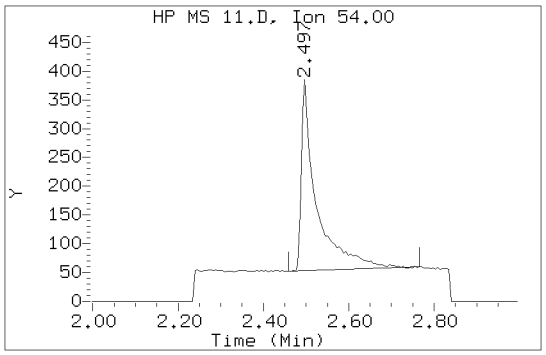
BEFORE

MASS
54
AREA
2061
HEIGHT
385
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
54
AREA
818
HEIGHT
332
05-Jun-2024
11:38
ALSHS

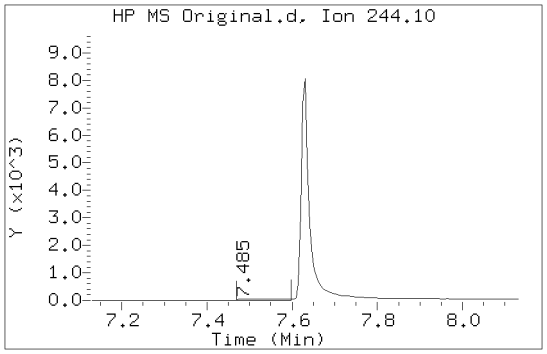


4-Terphenyl-d14 (1718-51-0)

Reason Code:

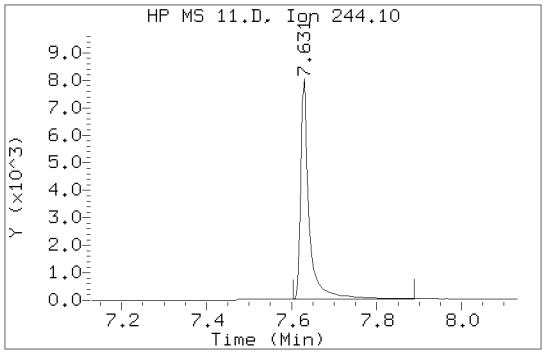
BEFORE

MASS
244.1
AREA
363
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



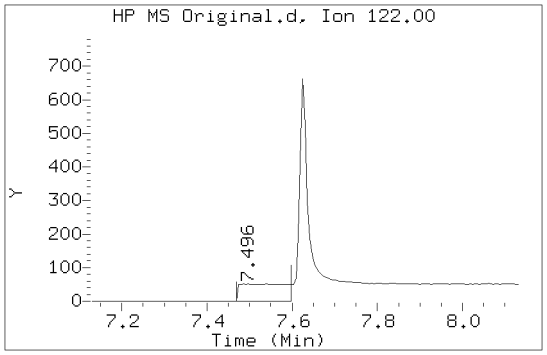
AFTER

MASS
244.1
AREA
11331
HEIGHT
8023
05-Jun-2024
11:38
ALSHS



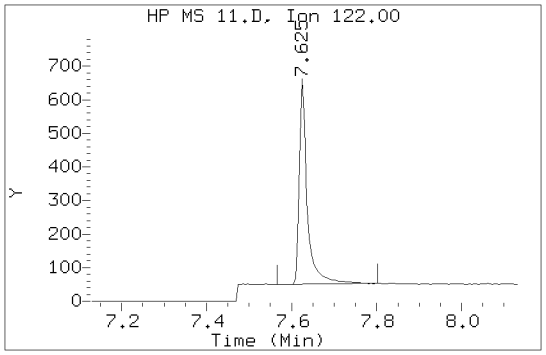
BEFORE

MASS
122
AREA
387
HEIGHT
52
18-Apr-2024
15:08
ALSHS
Server



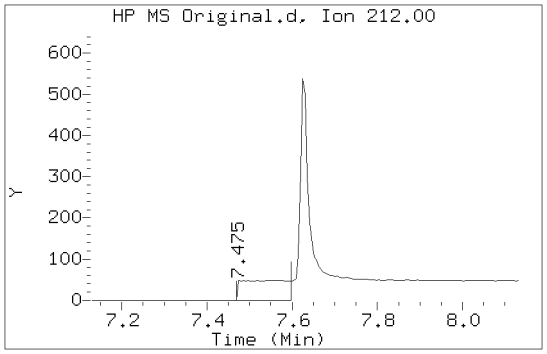
AFTER

MASS
122
AREA
801
HEIGHT
611
05-Jun-2024
11:38
ALSHS



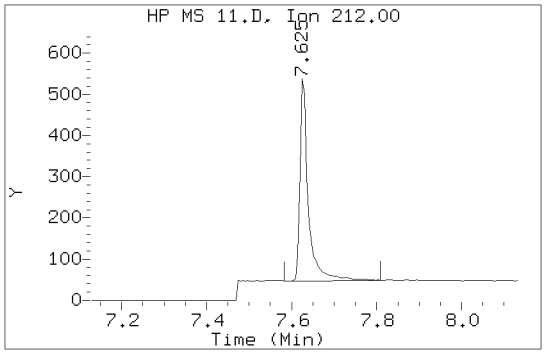
BEFORE

MASS
212
AREA
367
HEIGHT
48
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
212
AREA
675
HEIGHT
490
05-Jun-2024
11:38
ALSHS



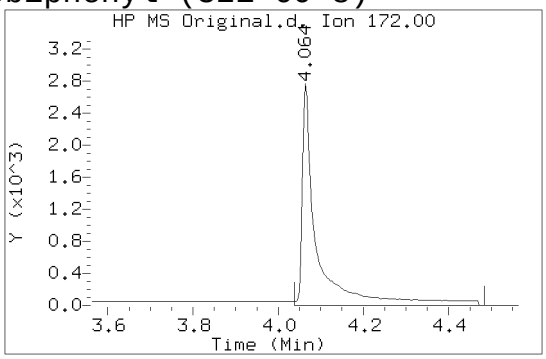
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\11.D
Inj Date : 18-APR-2024 14:53
InstruID : SV6.i
LabSampID : 14DX ICV-0.08

2-Fluorobiphenyl (321-60-8)

Reason Code:

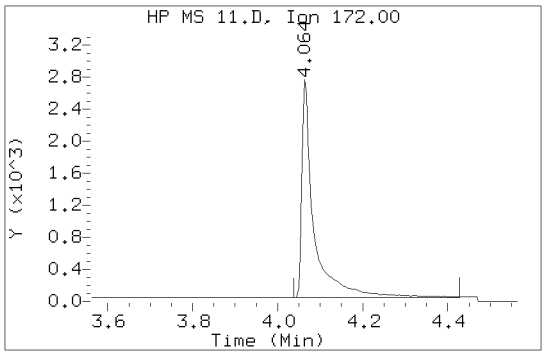
BEFORE

MASS
172
AREA
6739
HEIGHT
2770
18-Apr-2024
15:08
ALSHS
Server



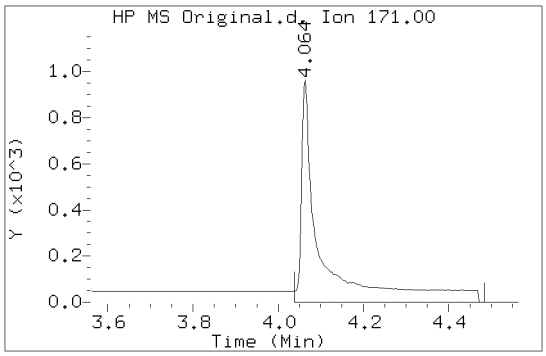
AFTER

MASS
172
AREA
5460
HEIGHT
2724
05-Jun-2024
11:38
ALSHS



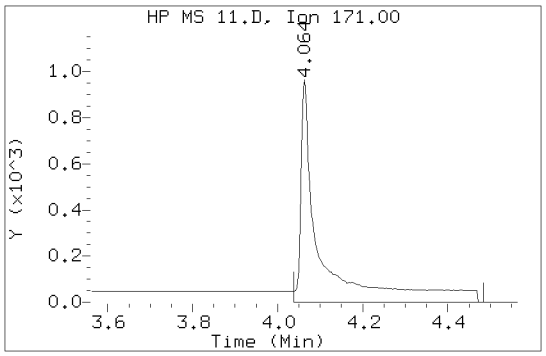
BEFORE

MASS
171
AREA
3102
HEIGHT
964
18-Apr-2024
15:08
ALSHS
Server



AFTER

MASS
171
AREA
3102
HEIGHT
964
05-Jun-2024
11:38
ALSHS



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\14.D Page 1
Report Date: 22-May-2024 14:23

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\14.D
Lab Smp Id: LCS-210508
Inj Date : 18-APR-2024 16:45
Operator : LG Inst ID: SV6.i
Smp Info : LCS-210508
Misc Info : ;;0;1;
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 22-May-2024 14:23 s.zaid Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 14 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	2.094	2.089	(1.000)	5003	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	16783	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.502	2.497	(0.813)	2960	0.05875	0.05875(M)
* 86 Acenaphthene-d10	164	4.665	4.665	(1.000)	10664	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.064	4.064	(0.871)	8335	0.05113	0.05113(M)
* 126 Phenanthrene-d10	188	6.066	6.066	(1.000)	23619	0.10000	
* 182 Chrysene-d12	240	8.593	8.593	(1.000)	17332	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.888)	19682	0.05574	0.05574(M)
* 198 Perylene-d12	264	10.184	10.184	(1.000)	19393	0.10000	
1 1,4-Dioxane	58	0.860	0.831	(0.411)	562	0.05244	0.05244(M)

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\SV6.i\240418.b\14.D

Date : 18-APR-2024 16:45

Client ID:

Instrument: SV6.i

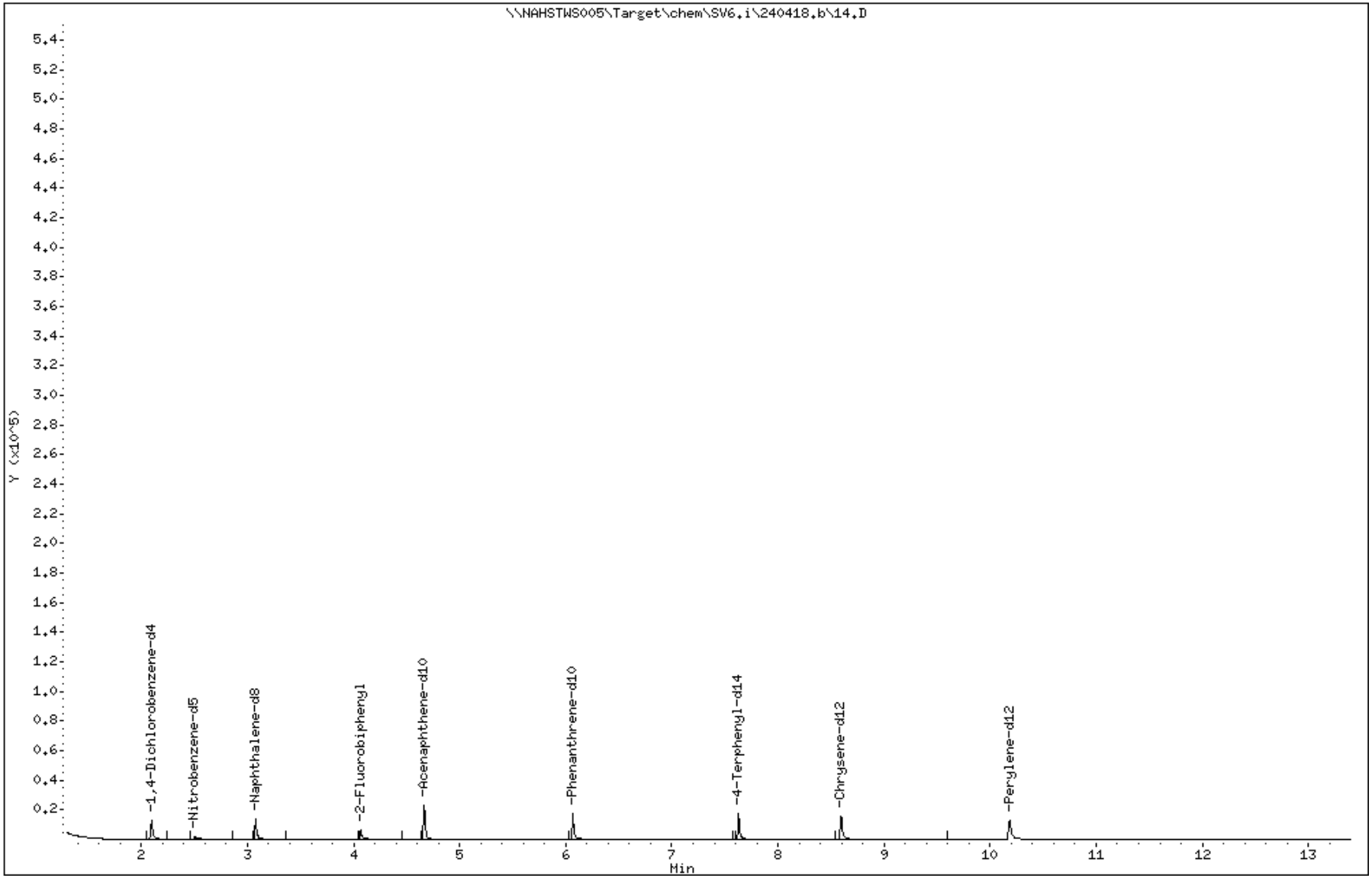
Sample Info: LCS-210508

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



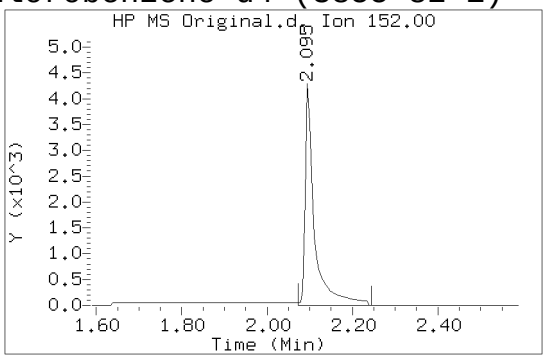
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\14.D
Inj Date : 18-APR-2024 16:45
InstruID : SV6.i
LabSampID : LCS-210508

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

Reason Code:

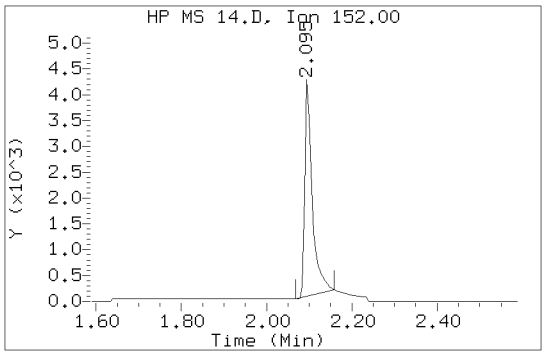
BEFORE

MASS
152
AREA
6353
HEIGHT
4291
18-Apr-2024
17:02
ALSHS
Server



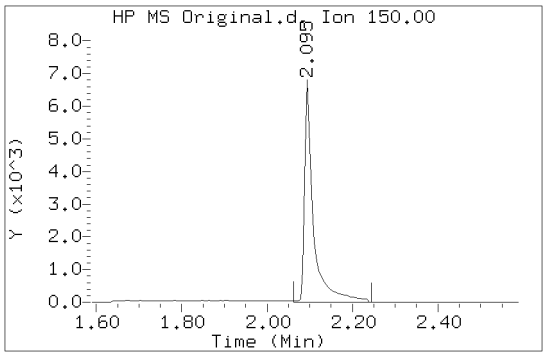
AFTER

MASS
152
AREA
5003
HEIGHT
4191
22-May-2024
14:23
ALSHS



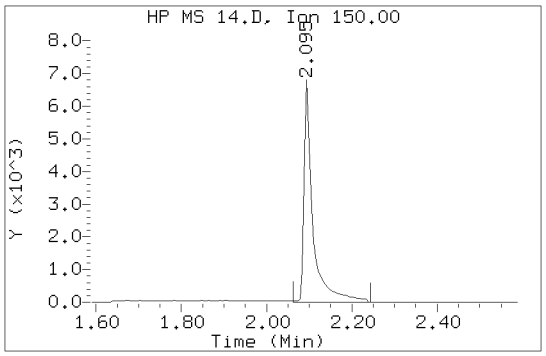
BEFORE

MASS
150
AREA
9752
HEIGHT
6804
18-Apr-2024
17:02
ALSHS
Server



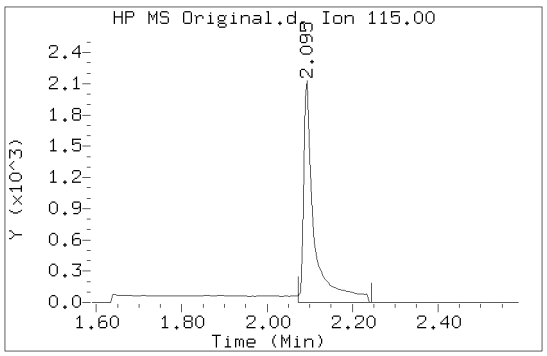
AFTER

MASS
150
AREA
9752
HEIGHT
6804
22-May-2024
14:23
ALSHS



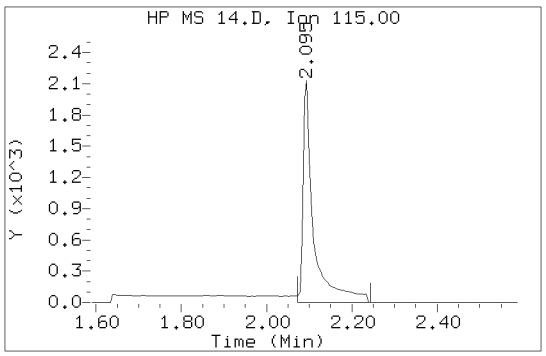
BEFORE

MASS
115
AREA
3628
HEIGHT
2129
18-Apr-2024
17:02
ALSHS
Server



AFTER

MASS
115
AREA
3628
HEIGHT
2129
22-May-2024
14:23
ALSHS

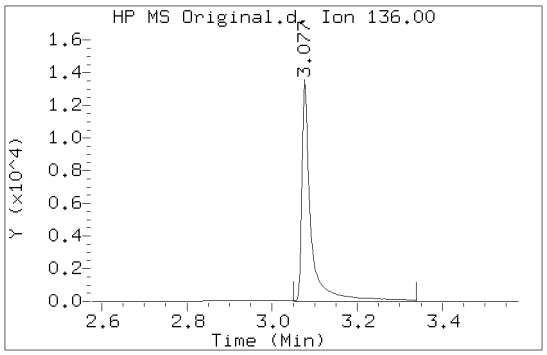


Naphthalene-d8 (1146-65-2)

Reason Code:

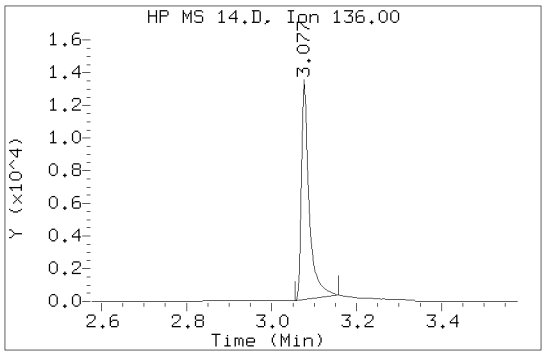
BEFORE

MASS
136
AREA
20016
HEIGHT
13577
18-Apr-2024
17:02
ALSHS
Server



AFTER

MASS
136
AREA
16783
HEIGHT
13456
22-May-2024
14:23
ALSHS



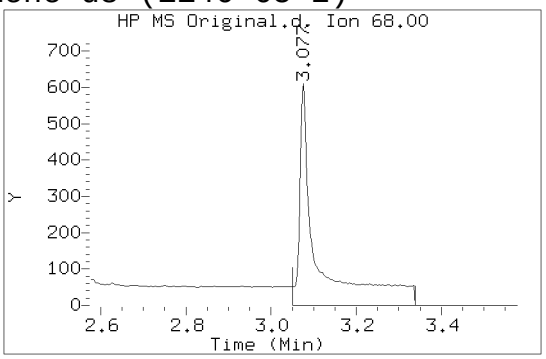
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\14.D
Inj Date : 18-APR-2024 16:45
InstruID : SV6.i
LabSampID : LCS-210508

Naphthalene-d8 (1146-65-2)

Reason Code:

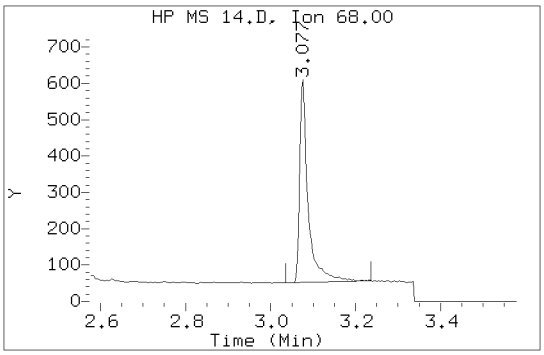
BEFORE

MASS
68
AREA
1697
HEIGHT
610
18-Apr-2024
17:02
ALSHS
Server



AFTER

MASS
68
AREA
753
HEIGHT
556
22-May-2024
14:23
ALSHS

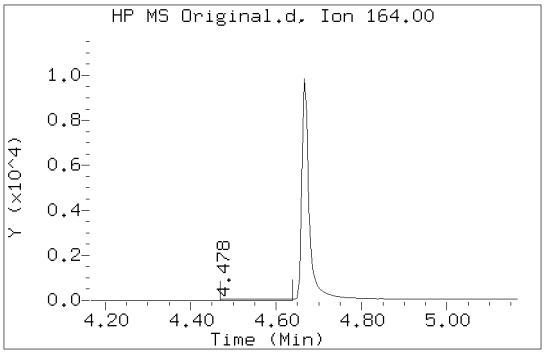


Acenaphthene-d10 (15067-26-2)

Reason Code:

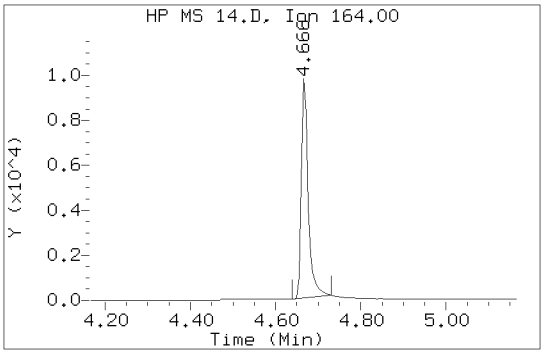
BEFORE

MASS
164
AREA
496
HEIGHT
50
18-Apr-2024
17:02
ALSHS
Server



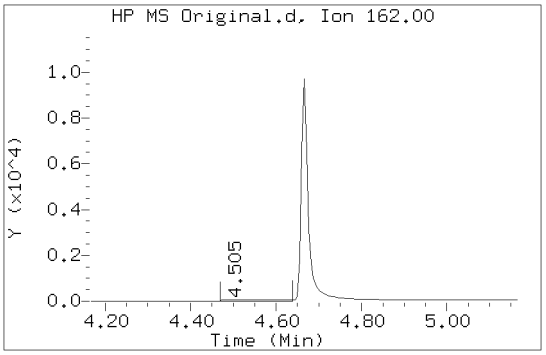
AFTER

MASS
164
AREA
10664
HEIGHT
9750
22-May-2024
14:23
ALSHS



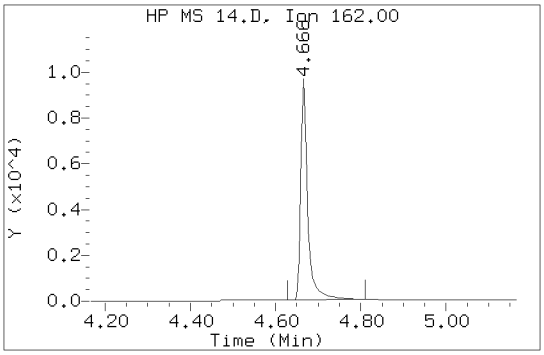
BEFORE

MASS
162
AREA
489
HEIGHT
50
18-Apr-2024
17:02
ALSHS
Server



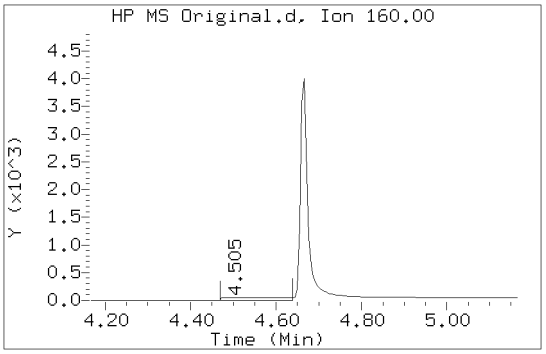
AFTER

MASS
162
AREA
10750
HEIGHT
9653
22-May-2024
14:23
ALSHS



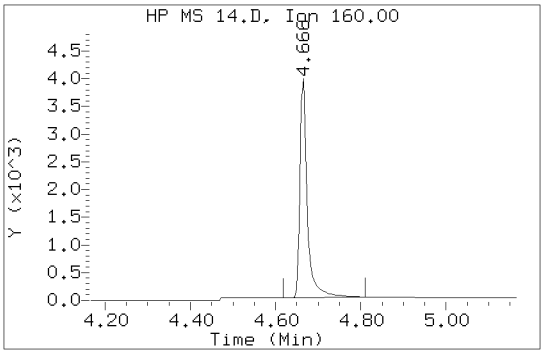
BEFORE

MASS
160
AREA
480
HEIGHT
48
18-Apr-2024
17:02
ALSHS
Server



AFTER

MASS
160
AREA
4673
HEIGHT
3950
22-May-2024
14:23
ALSHS



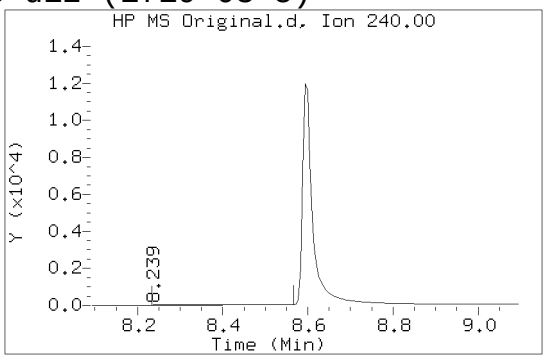
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\14.D
Inj Date : 18-APR-2024 16:45
InstruID : SV6.i
LabSampID : LCS-210508

Chrysene-d12 (1719-03-5)

Reason Code:

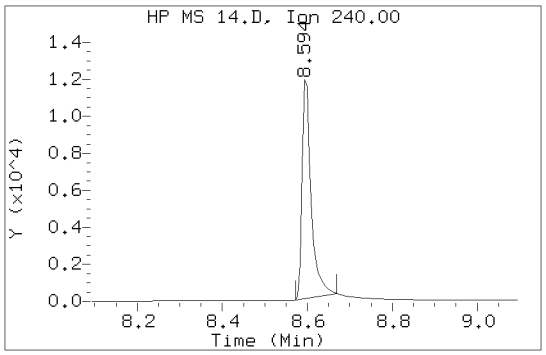
BEFORE

MASS
240
AREA
453
HEIGHT
48
18-Apr-2024
17:02
ALSHS
Server



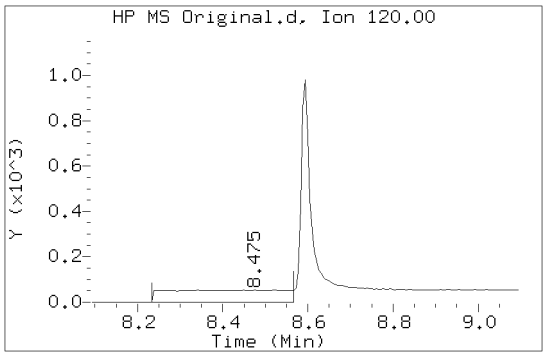
AFTER

MASS
240
AREA
17332
HEIGHT
11835
22-May-2024
14:23
ALSHS



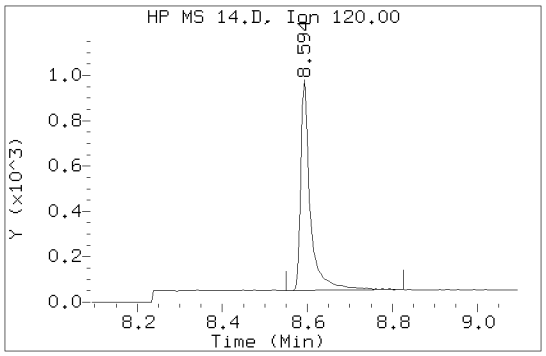
BEFORE

MASS
120
AREA
1022
HEIGHT
54
18-Apr-2024
17:02
ALSHS
Server



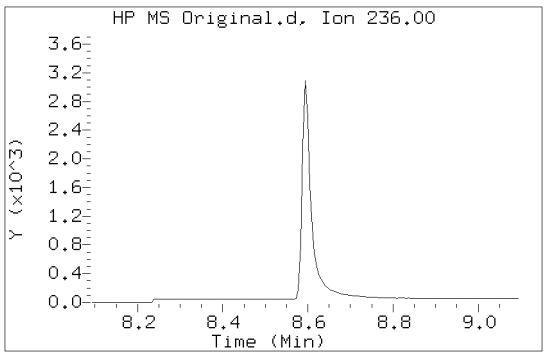
AFTER

MASS
120
AREA
1429
HEIGHT
928
22-May-2024
14:23
ALSHS



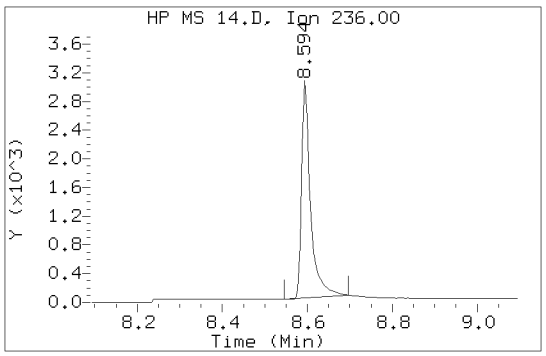
BEFORE

MASS
236
AREA
0
HEIGHT
0
18-Apr-2024
17:02
ALSHS
Server



AFTER

MASS
236
AREA
4342
HEIGHT
3026
22-May-2024
14:23
ALSHS

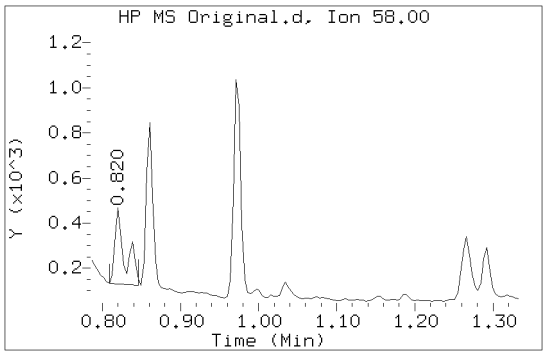


1,4-Dioxane ()

Reason Code:

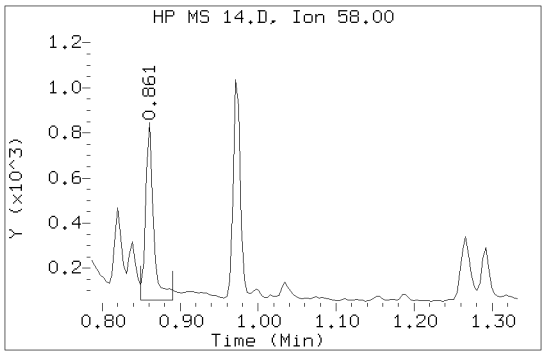
BEFORE

MASS
58
AREA
304
HEIGHT
337
18-Apr-2024
17:02
ALSHS
Server



AFTER

MASS
58
AREA
562
HEIGHT
787
22-May-2024
14:23
ALSHS



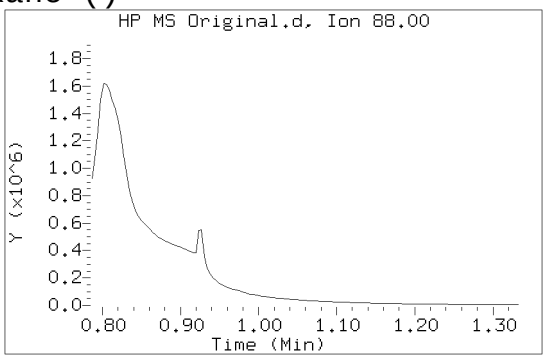
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\14.D
Inj Date : 18-APR-2024 16:45
InstruID : SV6.i
LabSampID : LCS-210508

1,4-Dioxane ()

Reason Code:

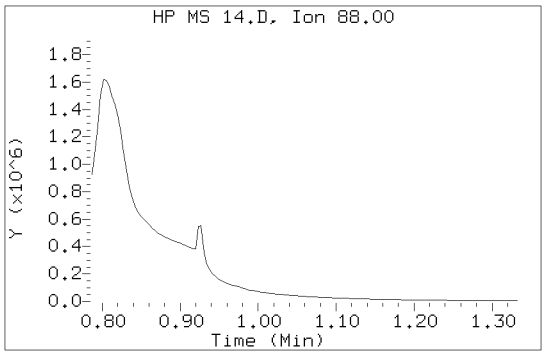
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
17:02
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
22-May-2024
14:23
ALSHS

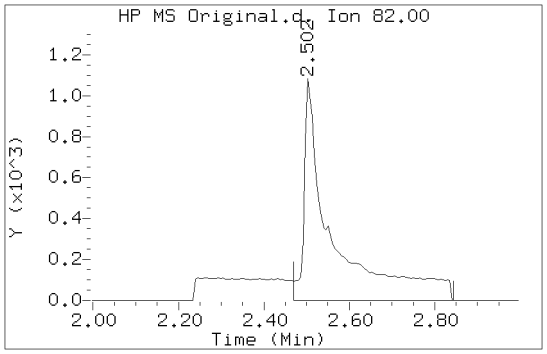


Nitrobenzene-d5 (4165-60-0)

Reason Code:

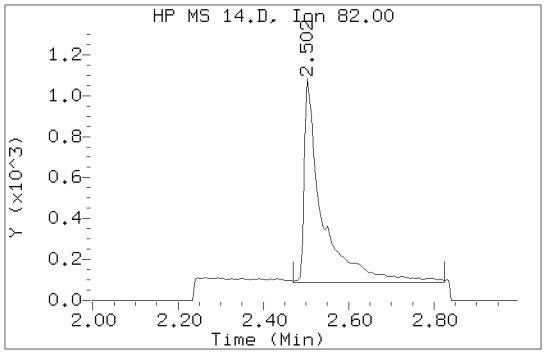
BEFORE

MASS
82
AREA
4878
HEIGHT
1083
18-Apr-2024
17:02
ALSHS
Server



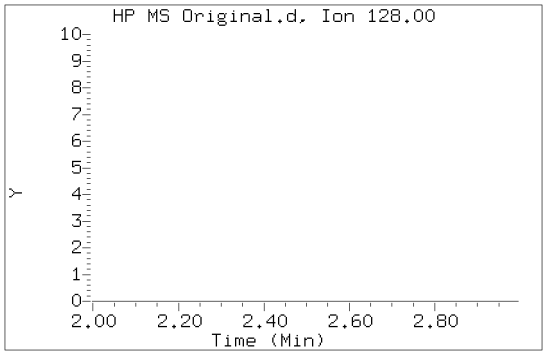
AFTER

MASS
82
AREA
2960
HEIGHT
996
22-May-2024
14:23
ALSHS



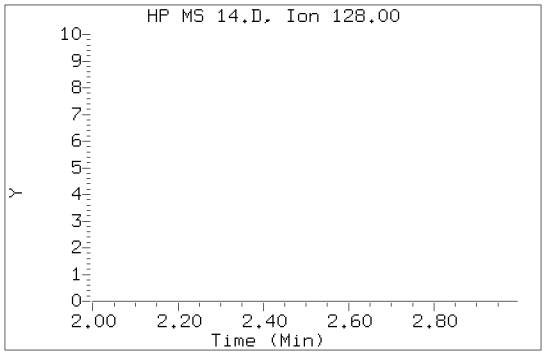
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
17:02
ALSHS
Server



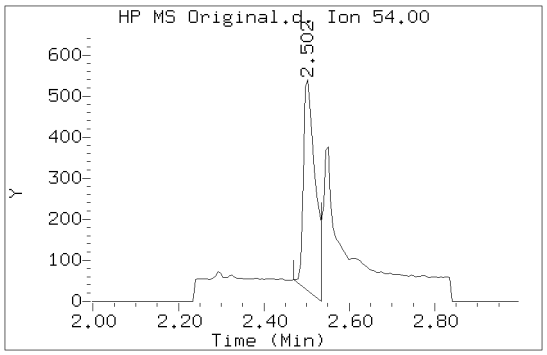
AFTER

MASS
128
AREA
0
HEIGHT
0
22-May-2024
14:23
ALSHS



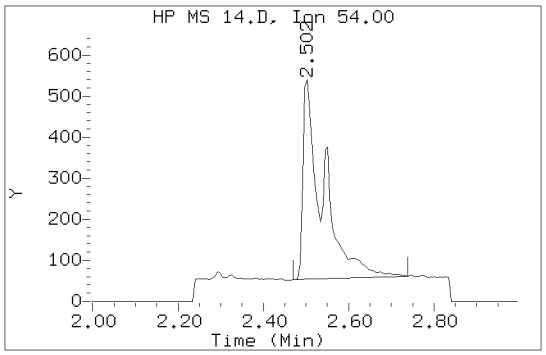
BEFORE

MASS
54
AREA
1007
HEIGHT
513
18-Apr-2024
17:02
ALSHS
Server



AFTER

MASS
54
AREA
1574
HEIGHT
486
22-May-2024
14:23
ALSHS



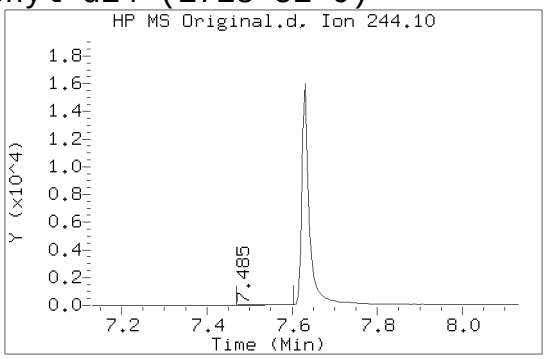
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\14.D
Inj Date : 18-APR-2024 16:45
InstruID : SV6.i
LabSampID : LCS-210508

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

Reason Code:

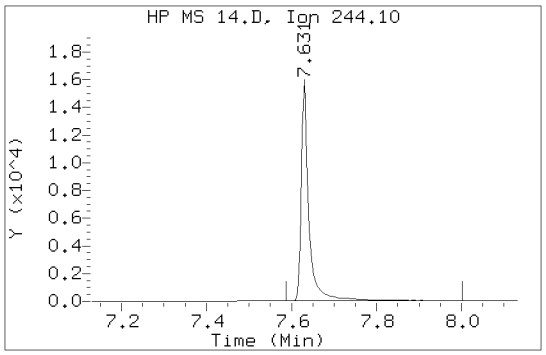
BEFORE

MASS
244.1
AREA
176
HEIGHT
41
18-Apr-2024
17:02
ALSHS
Server



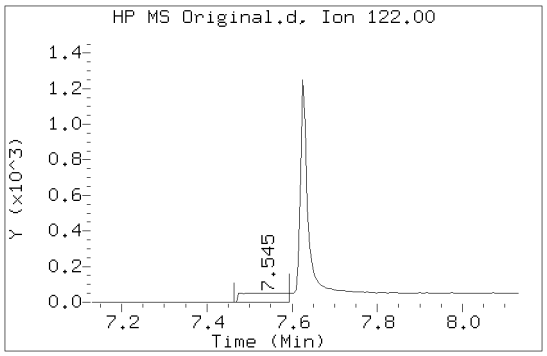
AFTER

MASS
244.1
AREA
19682
HEIGHT
15951
22-May-2024
14:23
ALSHS



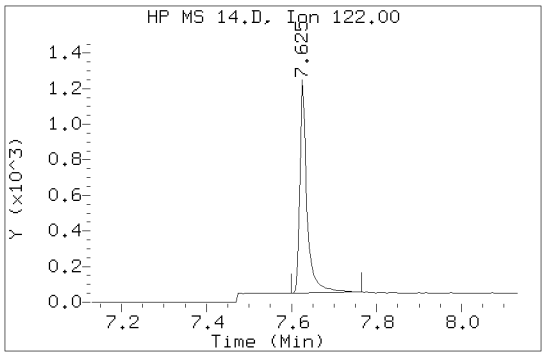
BEFORE

MASS
122
AREA
368
HEIGHT
51
18-Apr-2024
17:02
ALSHS
Server



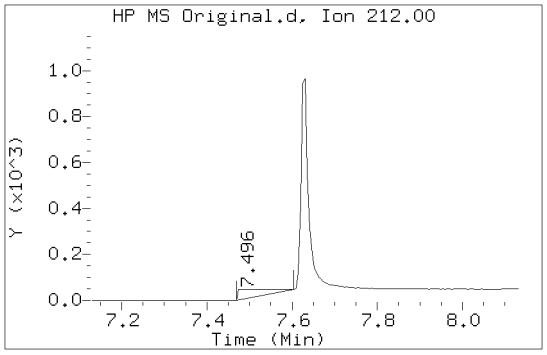
AFTER

MASS
122
AREA
1422
HEIGHT
1198
22-May-2024
14:23
ALSHS



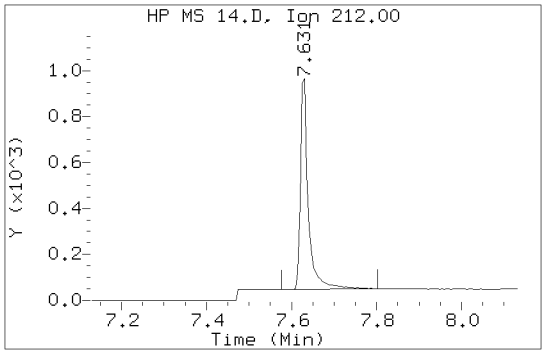
BEFORE

MASS
212
AREA
180
HEIGHT
38
18-Apr-2024
17:02
ALSHS
Server



AFTER

MASS
212
AREA
1186
HEIGHT
917
22-May-2024
14:23
ALSHS

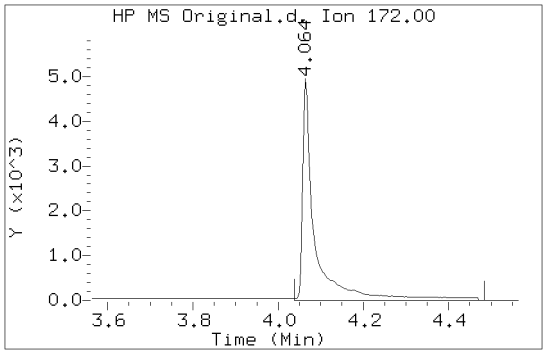


2-Fluorobiphenyl (321-60-8)

Reason Code:

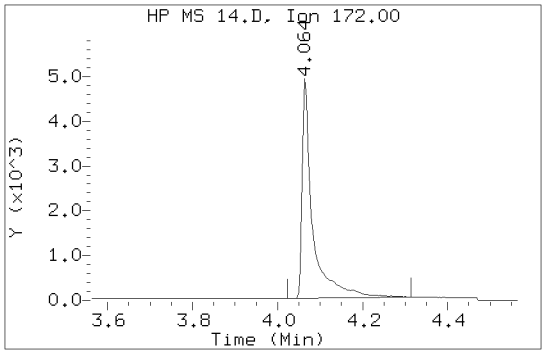
BEFORE

MASS
172
AREA
10071
HEIGHT
4954
18-Apr-2024
17:02
ALSHS
Server



AFTER

MASS
172
AREA
8335
HEIGHT
4902
22-May-2024
14:23
ALSHS



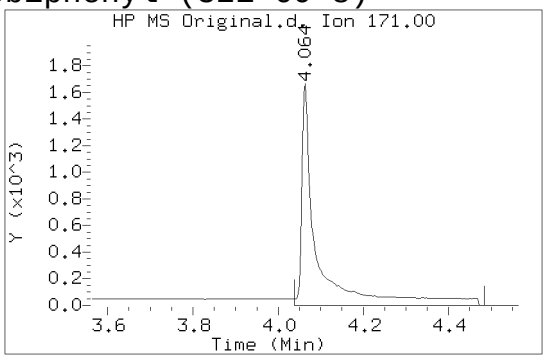
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\14.D
Inj Date : 18-APR-2024 16:45
InstruID : SV6.i
LabSampID : LCS-210508

2-Fluorobiphenyl (321-60-8)

Reason Code:

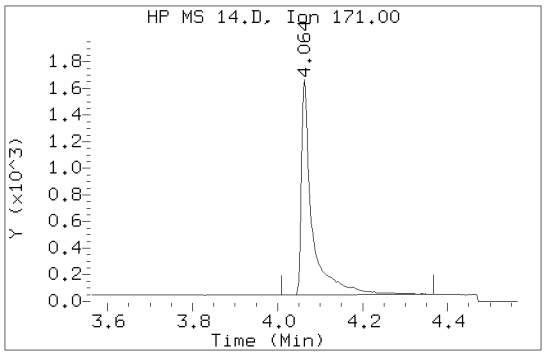
BEFORE

MASS
171
AREA
4193
HEIGHT
1666
18-Apr-2024
17:02
ALSHS
Server



AFTER

MASS
171
AREA
2822
HEIGHT
1617
22-May-2024
14:23
ALSHS



Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\15.D Page 1
Report Date: 19-Apr-2024 11:35

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\15.D
Lab Smp Id: LCSD-210508
Inj Date : 18-APR-2024 17:03
Operator : LG Inst ID: SV6.i
Smp Info : LCSD-210508
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 18-Apr-2024 15:51 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 15 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

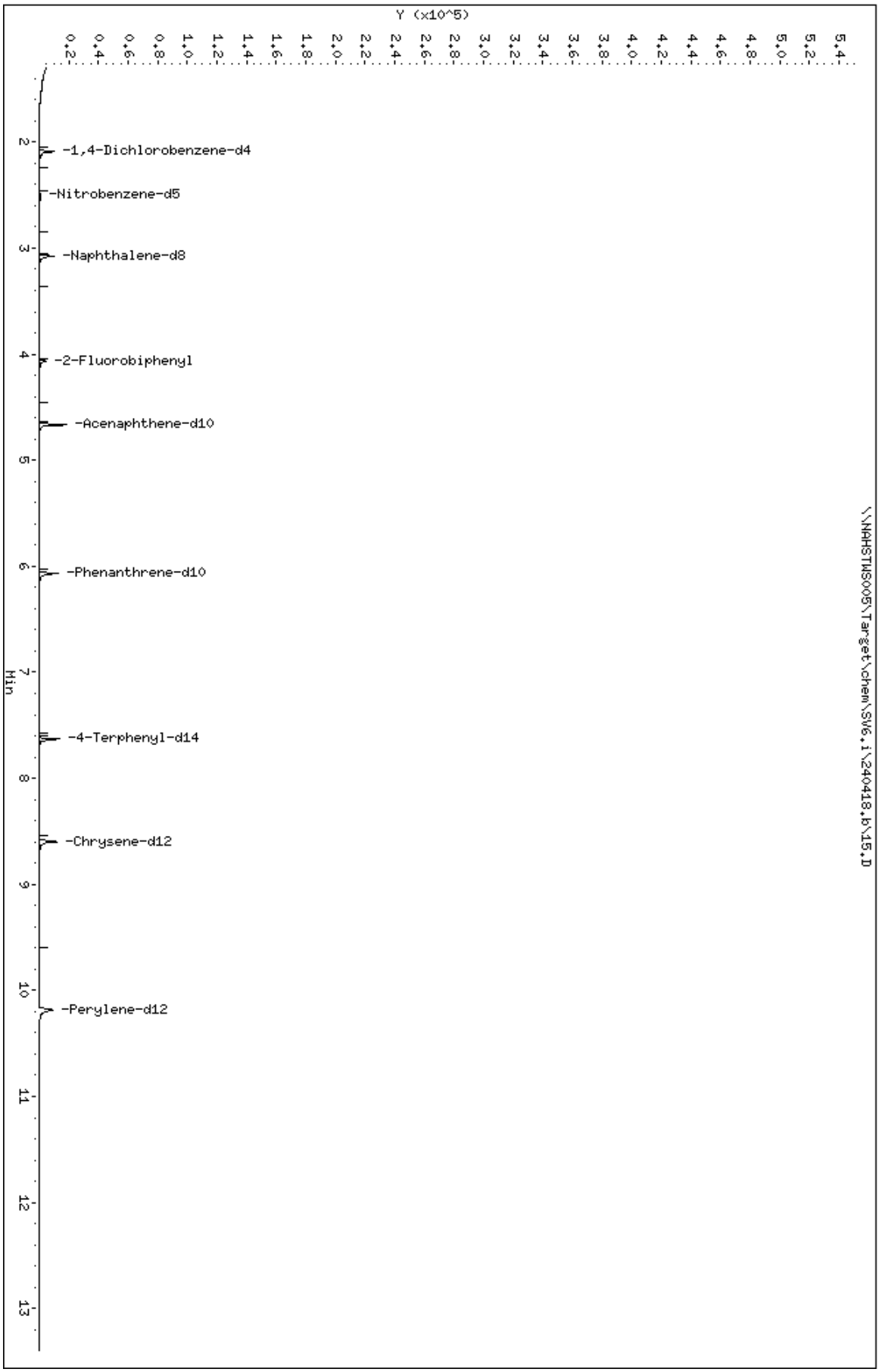
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (NG)	FINAL (ug/L)
* 20 1,4-Dichlorobenzene-d4	152	2.088	2.089	(1.000)	4404	0.10000	(aM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	13664	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.502	2.497	(0.813)	2015	0.04912	0.04912(M)
* 86 Acenaphthene-d10	164	4.665	4.665	(1.000)	8869	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.063	4.064	(0.909)	8170	0.06026	0.06026
* 126 Phenanthrene-d10	188	6.065	6.066	(1.000)	16824	0.10000	(M)
* 182 Chrysene-d12	240	8.598	8.593	(1.000)	13621	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	14503	0.05227	0.05227(M)
* 198 Perylene-d12	264	10.184	10.184	(1.000)	13599	0.10000	(M)
1 1,4-Dioxane	58	0.834	0.831	(0.400)	525	0.05565	0.05565(M)

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\SW6.i\240418.b\15.D
Date : 18-APR-2024 17:03
Client ID:
Sample Info: LCSD-210508
Purge Volume: 1000.0
Column phase: RTX-5SIL MS

Instrument: SW6.i
Operator: LG
Column diameter: 0.28



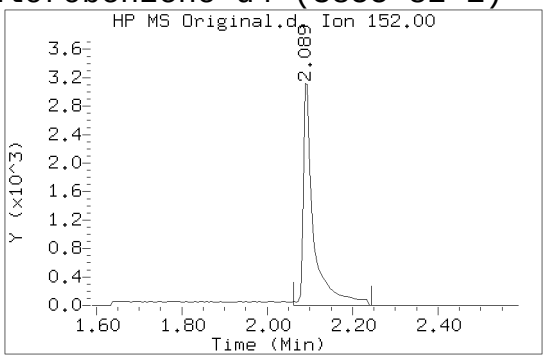
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\15.D
Inj Date : 18-APR-2024 17:03
InstruID : SV6.i
LabSampID : LCSD-210508

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

Reason Code:

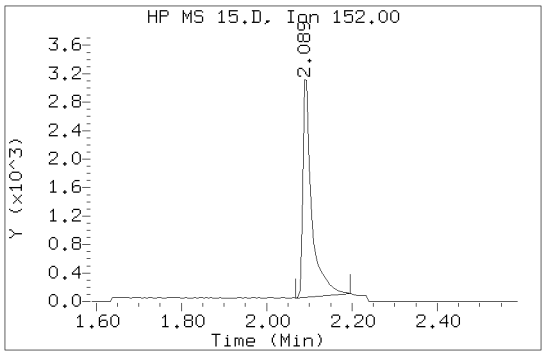
BEFORE

MASS
152
AREA
5239
HEIGHT
3116
18-Apr-2024
17:19
ALSHS
Server



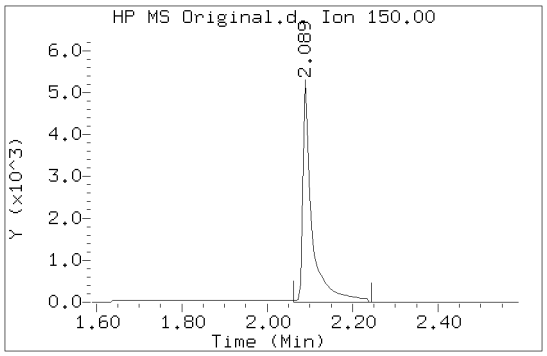
AFTER

MASS
152
AREA
4404
HEIGHT
3057
19-Apr-2024
11:35



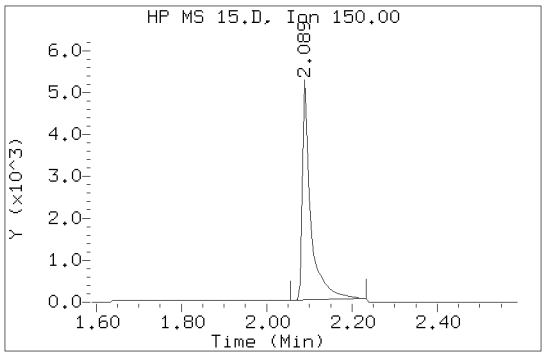
BEFORE

MASS
150
AREA
7869
HEIGHT
5301
18-Apr-2024
17:19
ALSHS
Server



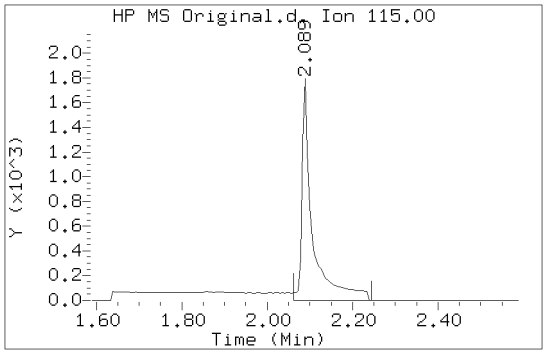
AFTER

MASS
150
AREA
7140
HEIGHT
5245
19-Apr-2024
11:35



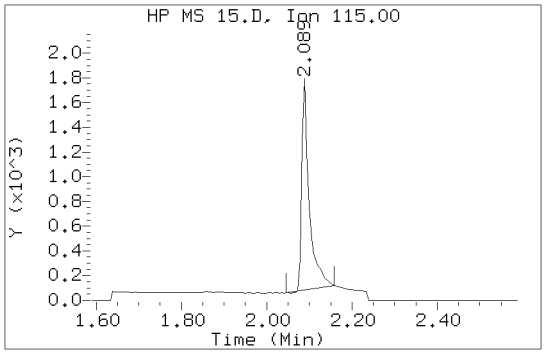
BEFORE

MASS
115
AREA
3054
HEIGHT
1793
18-Apr-2024
17:19
ALSHS
Server



AFTER

MASS
115
AREA
2069
HEIGHT
1709
19-Apr-2024
11:35

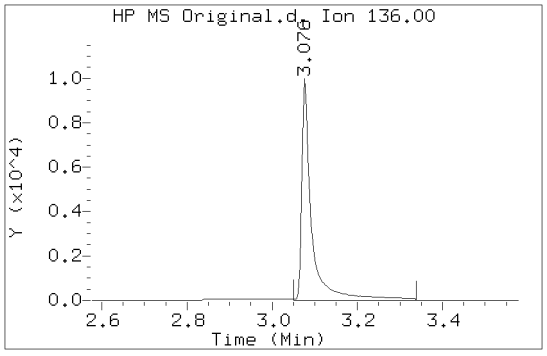


Naphthalene-d8 (1146-65-2)

Reason Code:

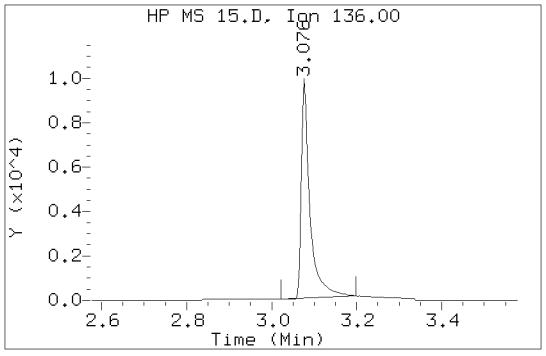
BEFORE

MASS
136
AREA
15996
HEIGHT
9983
18-Apr-2024
17:19
ALSHS
Server



AFTER

MASS
136
AREA
13664
HEIGHT
9886
19-Apr-2024
11:35



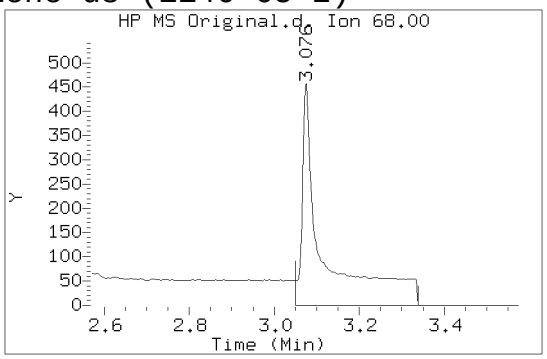
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\15.D
Inj Date : 18-APR-2024 17:03
InstruID : SV6.i
LabSampID : LCSD-210508

Naphthalene-d8 (1146-65-2)

Reason Code:

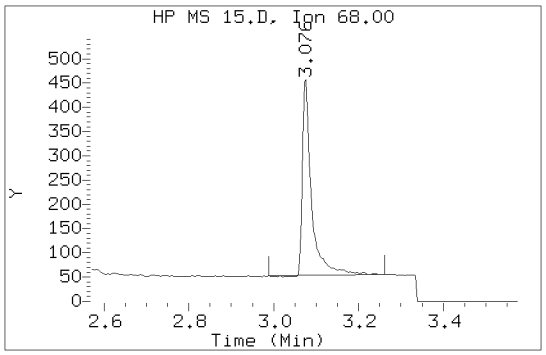
BEFORE

MASS
68
AREA
1540
HEIGHT
457
18-Apr-2024
17:19
ALSHS
Server



AFTER

MASS
68
AREA
587
HEIGHT
403
19-Apr-2024
11:35

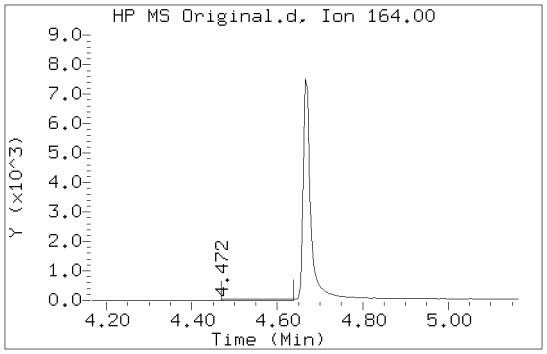


Acenaphthene-d10 (15067-26-2)

Reason Code:

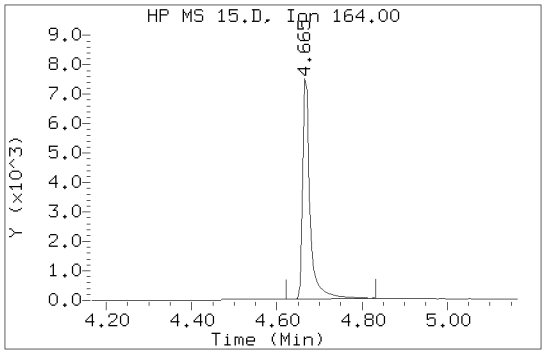
BEFORE

MASS
164
AREA
497
HEIGHT
50
18-Apr-2024
17:19
ALSHS
Server



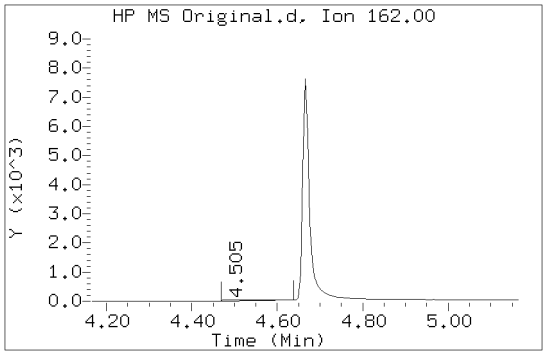
AFTER

MASS
164
AREA
8869
HEIGHT
7471
19-Apr-2024
11:35



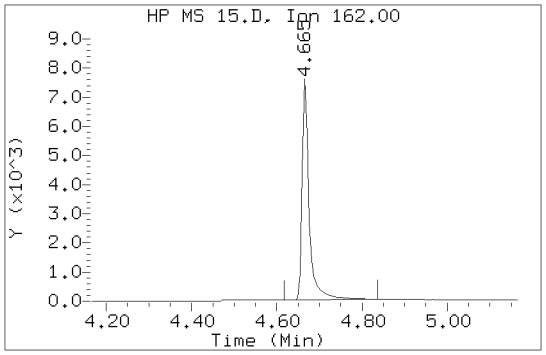
BEFORE

MASS
162
AREA
230
HEIGHT
38
18-Apr-2024
17:19
ALSHS
Server



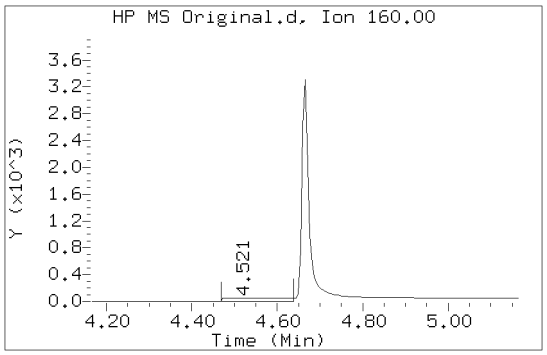
AFTER

MASS
162
AREA
8466
HEIGHT
7575
19-Apr-2024
11:35



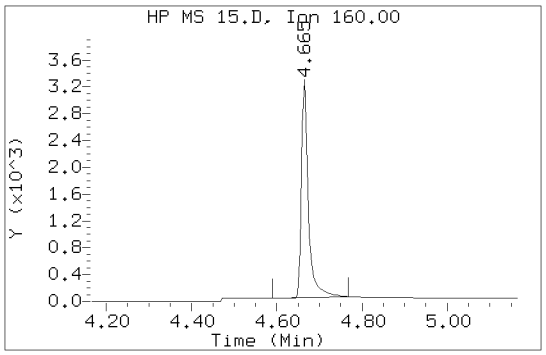
BEFORE

MASS
160
AREA
481
HEIGHT
49
18-Apr-2024
17:19
ALSHS
Server



AFTER

MASS
160
AREA
3578
HEIGHT
3249
19-Apr-2024
11:35

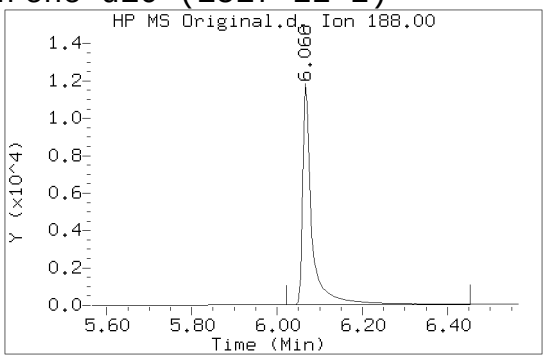


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\15.D
Inj Date : 18-APR-2024 17:03
InstruID : SV6.i
LabSampID : LCSD-210508

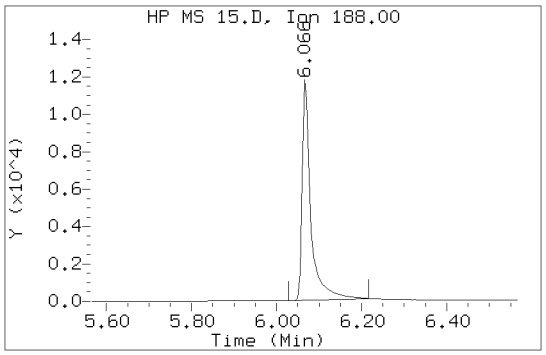
Phenanthrene-d10 (1517-22-2)

Reason Code:

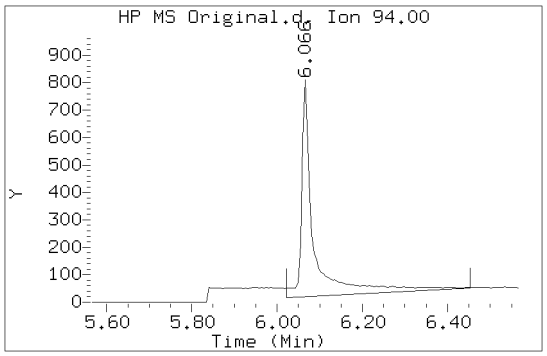
BEFORE
MASS
188
AREA
18374
HEIGHT
11830
18-Apr-2024
17:19
ALSHS
Server



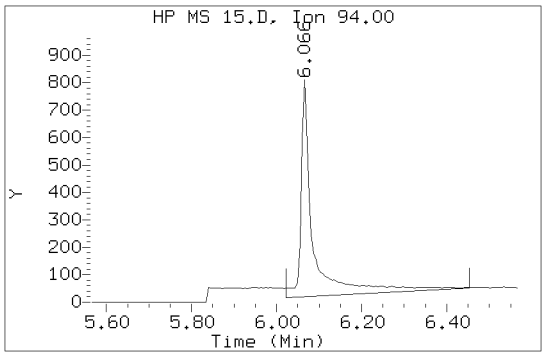
AFTER
MASS
188
AREA
16824
HEIGHT
11783
19-Apr-2024
11:35



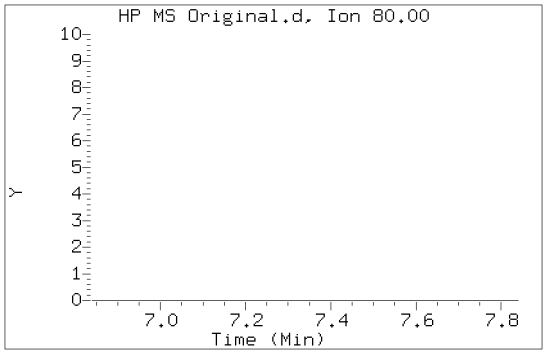
BEFORE
MASS
94
AREA
1602
HEIGHT
790
18-Apr-2024
17:19
ALSHS
Server



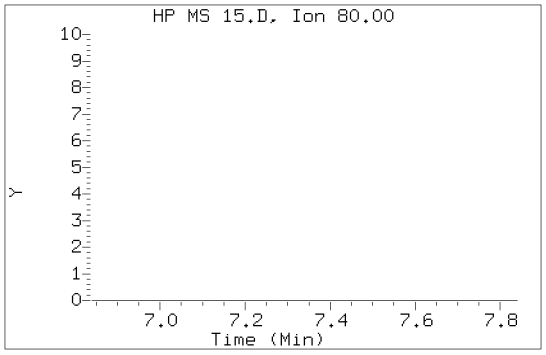
AFTER
MASS
94
AREA
1602
HEIGHT
790
19-Apr-2024
11:35



BEFORE
MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
17:19
ALSHS
Server



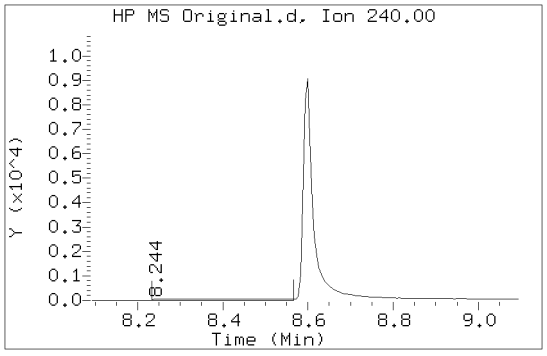
AFTER
MASS
80
AREA
0
HEIGHT
0
19-Apr-2024
11:35



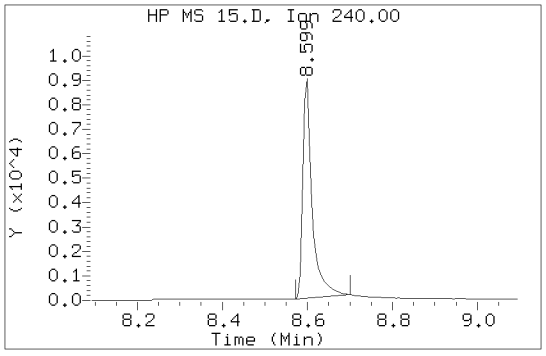
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
945
HEIGHT
49
18-Apr-2024
17:19
ALSHS
Server



AFTER
MASS
240
AREA
13621
HEIGHT
8979
19-Apr-2024
11:35



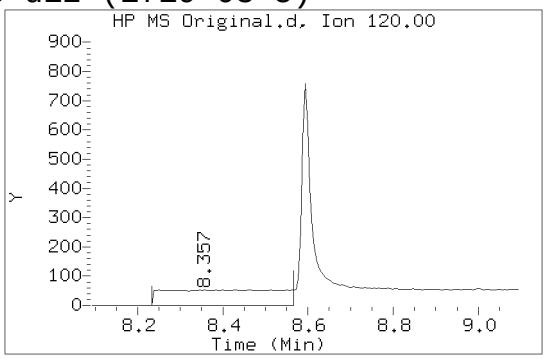
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\15.D
Inj Date : 18-APR-2024 17:03
InstruID : SV6.i
LabSampID : LCSD-210508

Chrysene-d12 (1719-03-5)

Reason Code:

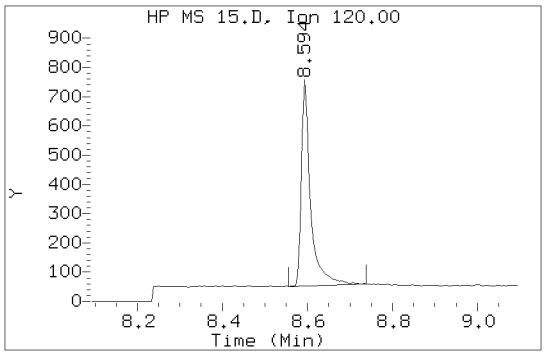
BEFORE

MASS
120
AREA
1019
HEIGHT
53
18-Apr-2024
17:19
ALSHS
Server



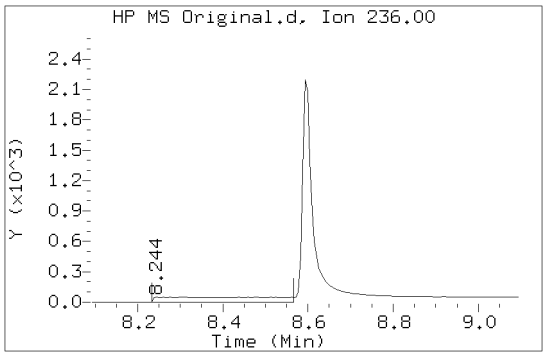
AFTER

MASS
120
AREA
1048
HEIGHT
705
19-Apr-2024
11:35



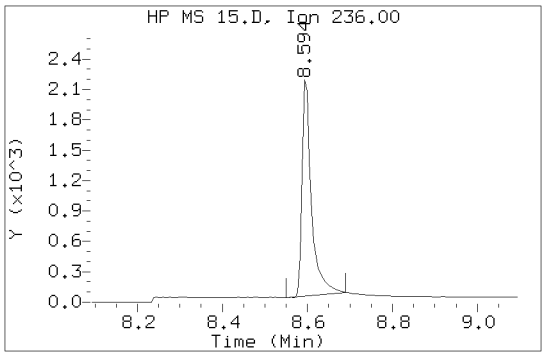
BEFORE

MASS
236
AREA
943
HEIGHT
48
18-Apr-2024
17:19
ALSHS
Server



AFTER

MASS
236
AREA
3222
HEIGHT
2131
19-Apr-2024
11:35

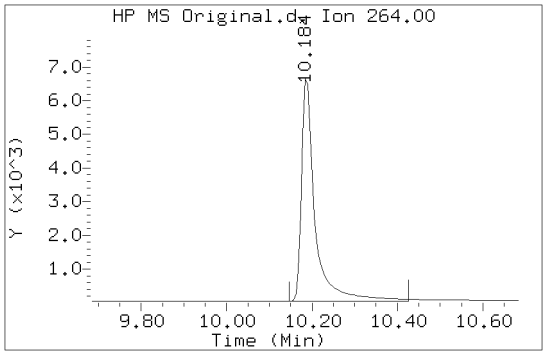


Perylene-d12 (1520-96-3)

Reason Code:

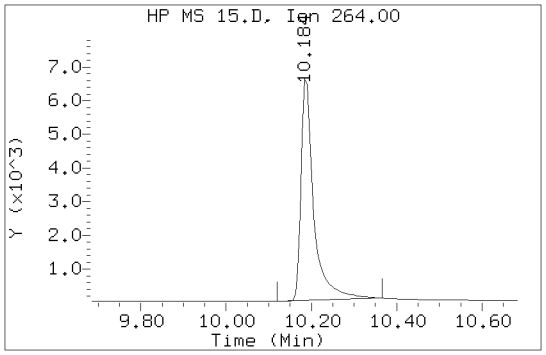
BEFORE

MASS
264
AREA
14500
HEIGHT
6598
18-Apr-2024
17:19
ALSHS
Server



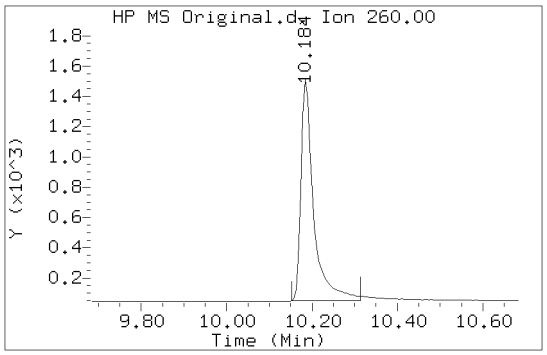
AFTER

MASS
264
AREA
13599
HEIGHT
6575
19-Apr-2024
11:35



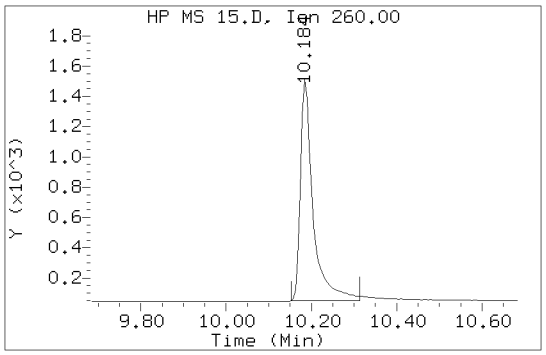
BEFORE

MASS
260
AREA
3013
HEIGHT
1461
18-Apr-2024
17:19
ALSHS
Server



AFTER

MASS
260
AREA
3013
HEIGHT
1461
19-Apr-2024
11:35



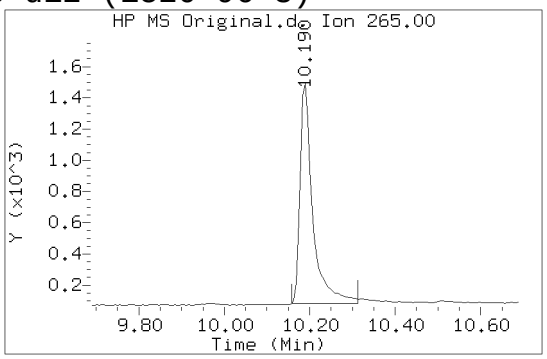
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\15.D
Inj Date : 18-APR-2024 17:03
InstruID : SV6.i
LabSampID : LCSD-210508

Perylene-d12 (1520-96-3)

Reason Code:

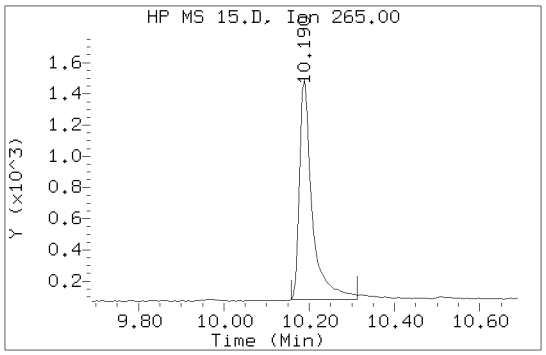
BEFORE

MASS
265
AREA
2915
HEIGHT
1409
18-Apr-2024
17:19
ALSHS
Server



AFTER

MASS
265
AREA
2915
HEIGHT
1409
19-Apr-2024
11:35

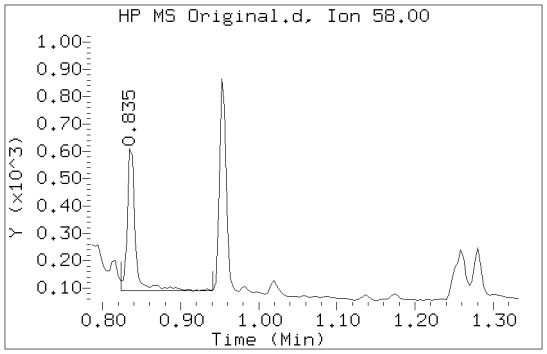


1,4-Dioxane ()

Reason Code:

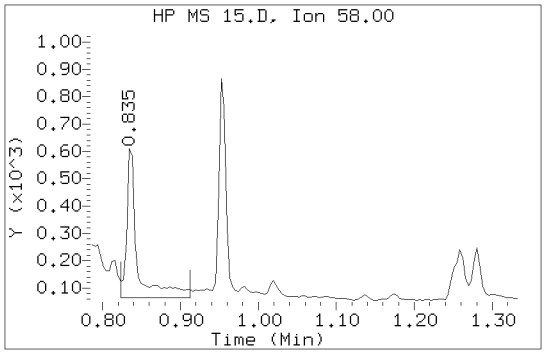
BEFORE

MASS
58
AREA
385
HEIGHT
520
18-Apr-2024
17:19
ALSHS
Server



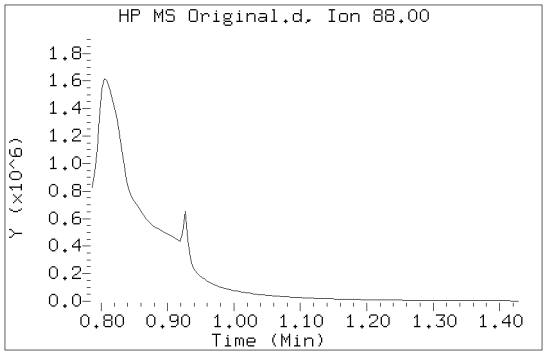
AFTER

MASS
58
AREA
525
HEIGHT
546
19-Apr-2024
11:35



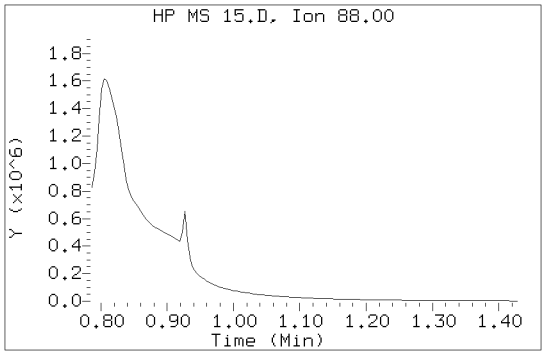
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
17:19
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
19-Apr-2024
11:35

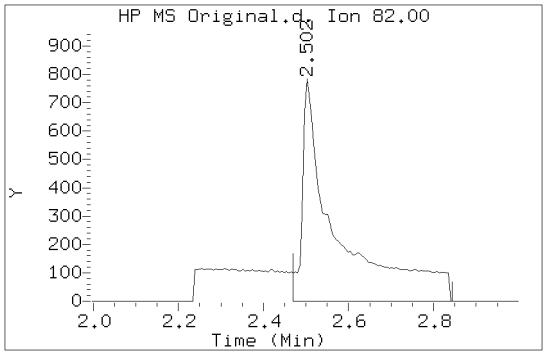


Nitrobenzene-d5 (4165-60-0)

Reason Code:

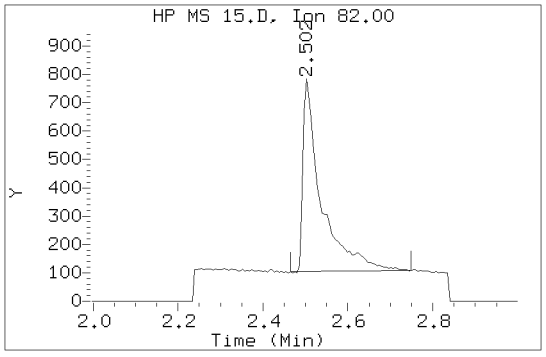
BEFORE

MASS
82
AREA
4342
HEIGHT
784
18-Apr-2024
17:19
ALSHS
Server



AFTER

MASS
82
AREA
2015
HEIGHT
679
19-Apr-2024
11:35

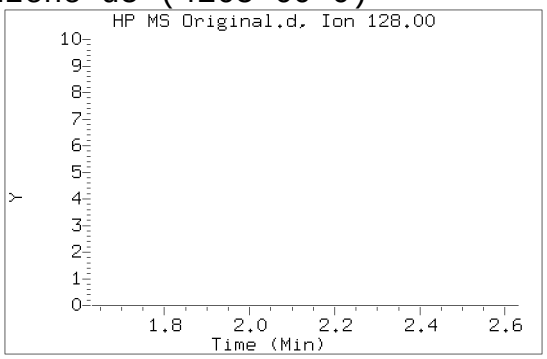


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\15.D
Inj Date : 18-APR-2024 17:03
InstruID : SV6.i
LabSampID : LCSD-210508

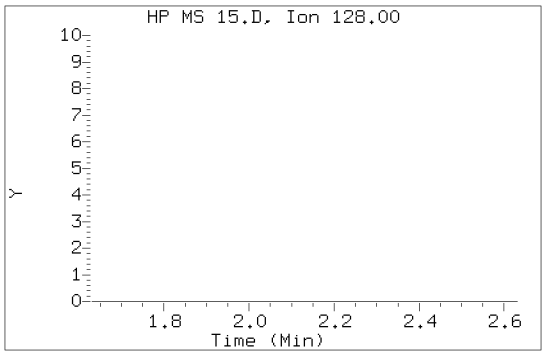
Nitrobenzene-d5 (4165-60-0)

Reason Code:

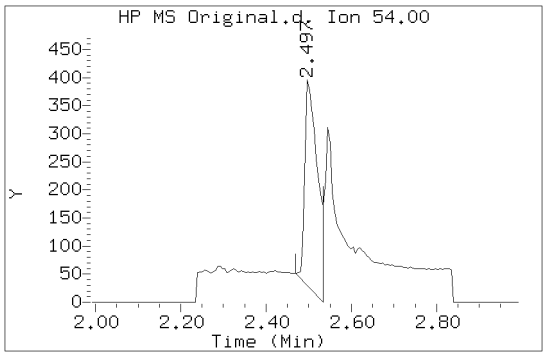
BEFORE
MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
17:19
ALSHS
Server



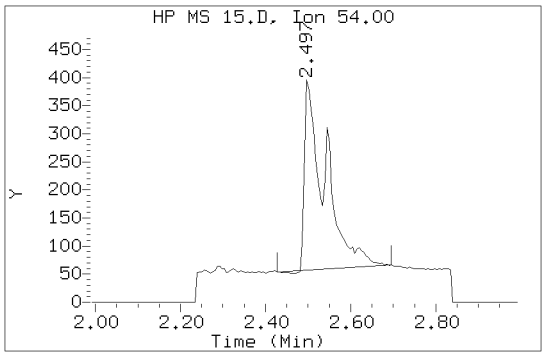
AFTER
MASS
128
AREA
0
HEIGHT
0
19-Apr-2024
11:35



BEFORE
MASS
54
AREA
788
HEIGHT
365
18-Apr-2024
17:19
ALSHS
Server



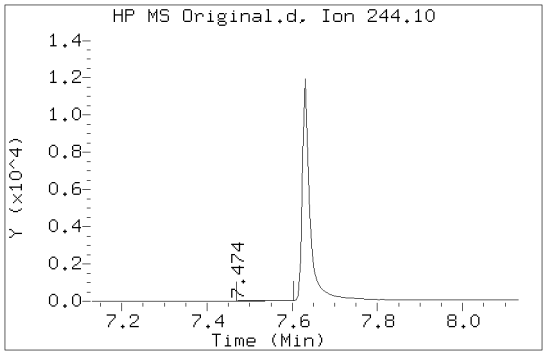
AFTER
MASS
54
AREA
1138
HEIGHT
338
19-Apr-2024
11:35



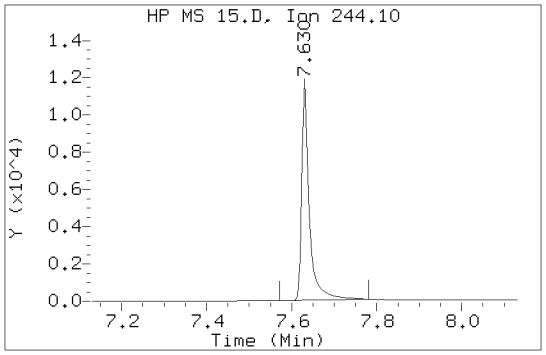
4-Terphenyl-d14 (1718-51-0)

Reason Code:

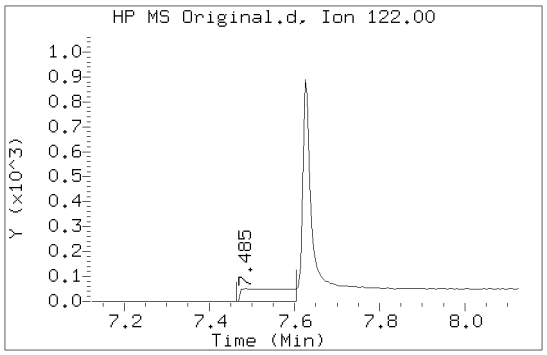
BEFORE
MASS
244.1
AREA
177
HEIGHT
44
18-Apr-2024
17:19
ALSHS
Server



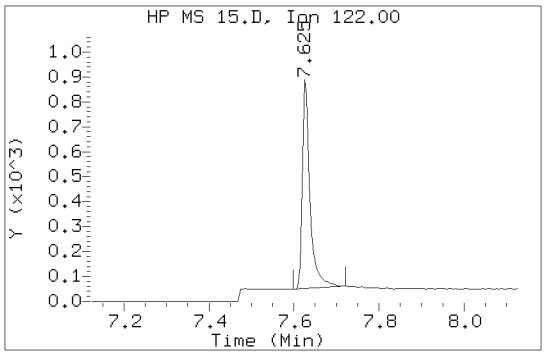
AFTER
MASS
244.1
AREA
14503
HEIGHT
11878
19-Apr-2024
11:35



BEFORE
MASS
122
AREA
398
HEIGHT
51
18-Apr-2024
17:19
ALSHS
Server



AFTER
MASS
122
AREA
1030
HEIGHT
836
19-Apr-2024
11:35



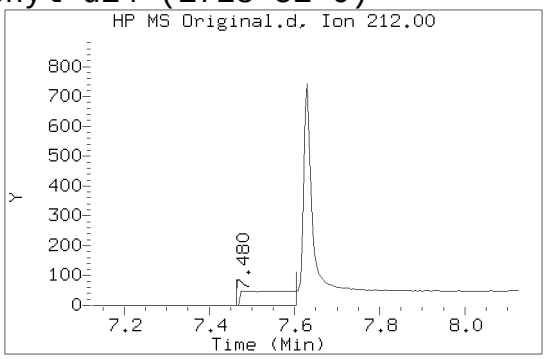
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\15.D
Inj Date : 18-APR-2024 17:03
InstruID : SV6.i
LabSampID : LCSD-210508

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

Reason Code:

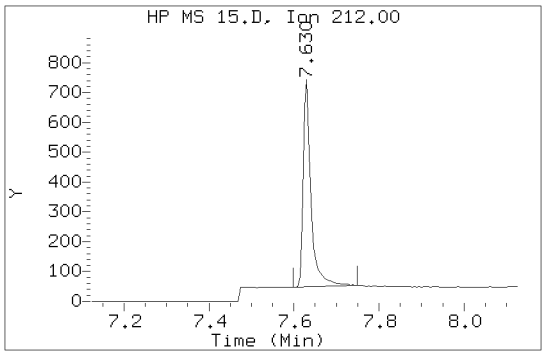
BEFORE

MASS
212
AREA
379
HEIGHT
48
18-Apr-2024
17:19
ALSHS
Server



AFTER

MASS
212
AREA
876
HEIGHT
694
19-Apr-2024
11:35



ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240418.b\17.D
Lab Smp Id: 14DX-0.08 Client Smp ID: CCV _END
Inj Date : 18-APR-2024 17:38
Operator : LG Inst ID: SV6.i
Smp Info : 14DX-0.08
Misc Info : ;;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\SV6.i\240418.b\DXSIM.m
Meth Date : 06-Jun-2024 11:07 SV6.i Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 14dx.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	2.089	2.089	(1.000)	2682	0.10000	(aQM)
* 45 Naphthalene-d8	136	3.076	3.076	(1.000)	8253	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.502	2.502	(0.813)	1592	0.08000	0.06426(QM)
* 86 Acenaphthene-d10	164	4.671	4.671	(1.000)	5309	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.067	4.067	(0.871)	5179	0.08000	0.06382(M)
* 126 Phenanthrene-d10	188	6.065	6.065	(1.000)	10378	0.10000	(M)
* 182 Chrysene-d12	240	8.599	8.599	(1.000)	8268	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.630	7.630	(0.887)	10461	0.08000	0.06211(M)
* 198 Perylene-d12	264	10.189	10.189	(1.000)	7601	0.10000	
1 1,4-Dioxane	58	0.820	0.820	(0.393)	334	0.08000	0.05814(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.

Data File: \\NAHSTWS005\Target\chem\SV6.i\240418.b\17.D

Date : 18-APR-2024 17:38

Client ID: CCV _END

Instrument: SV6.i

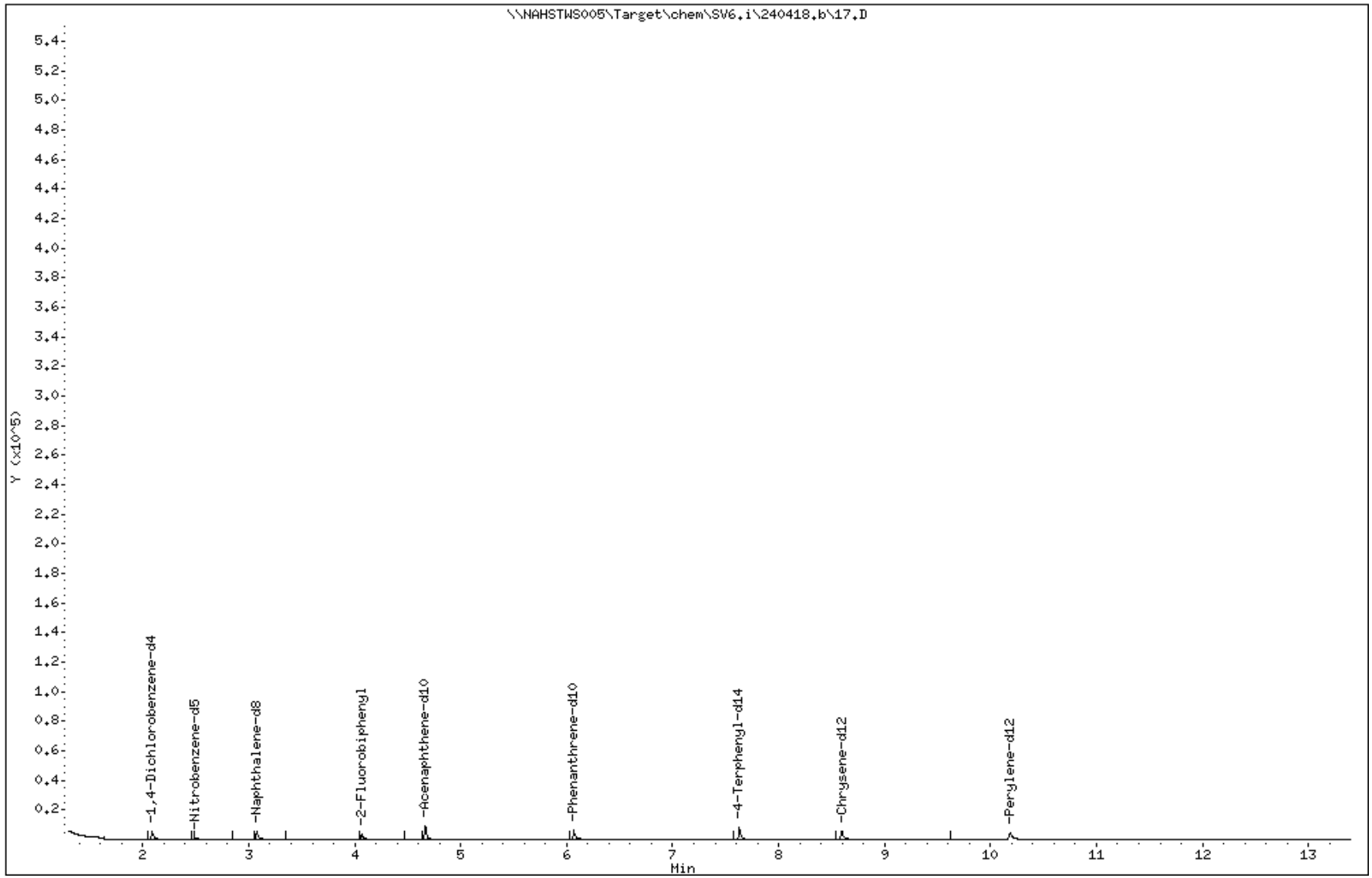
Sample Info: 14DX-0.08

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28

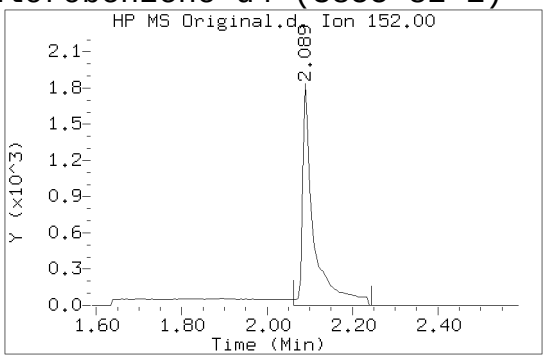


Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\17.D
Inj Date : 18-APR-2024 17:38
InstruID : SV6.i
LabSampID : 14DX-0.08

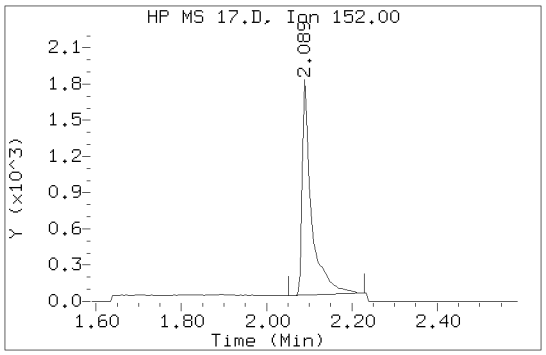
1,4-Dichlorobenzene-d4 (3855-82-1)

Reason Code:

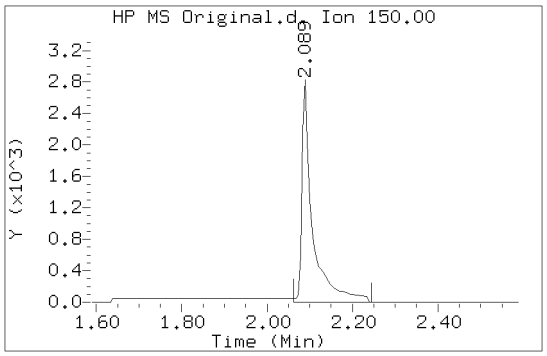
BEFORE
MASS
152
AREA
3319
HEIGHT
1836
18-Apr-2024
18:17
ALSHS
Server



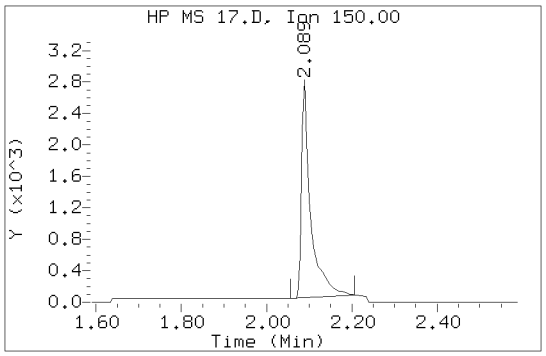
AFTER
MASS
152
AREA
2682
HEIGHT
1783
06-Jun-2024
11:07
ALSHS



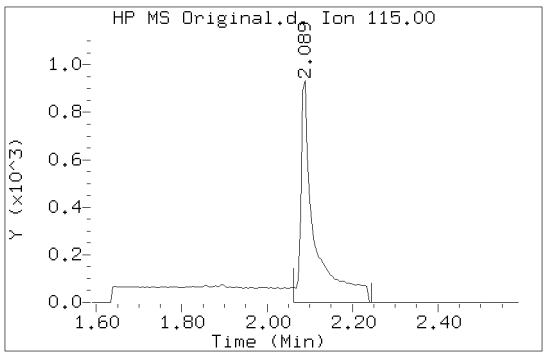
BEFORE
MASS
150
AREA
4891
HEIGHT
2827
18-Apr-2024
18:17
ALSHS
Server



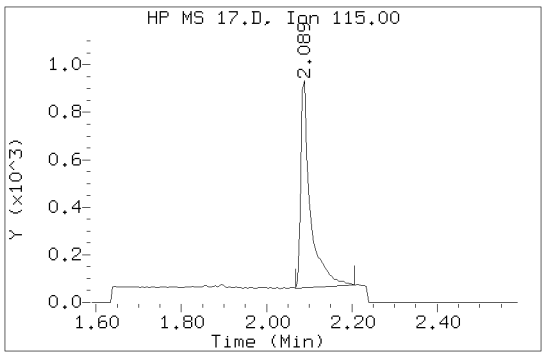
AFTER
MASS
150
AREA
4133
HEIGHT
2768
06-Jun-2024
11:07
ALSHS



BEFORE
MASS
115
AREA
2086
HEIGHT
933
18-Apr-2024
18:17
ALSHS
Server



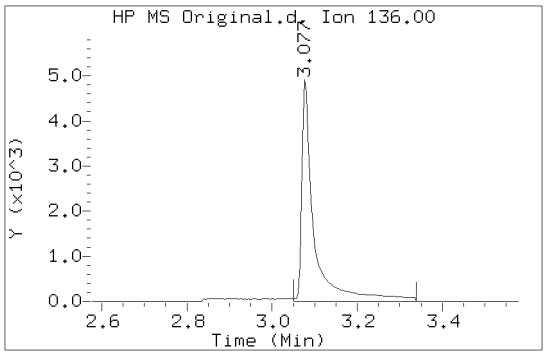
AFTER
MASS
115
AREA
1368
HEIGHT
870
06-Jun-2024
11:07
ALSHS



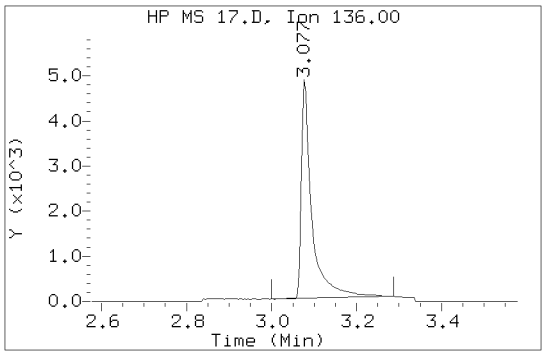
Naphthalene-d8 (1146-65-2)

Reason Code:

BEFORE
MASS
136
AREA
9750
HEIGHT
4915
18-Apr-2024
18:17
ALSHS
Server



AFTER
MASS
136
AREA
8253
HEIGHT
4849
06-Jun-2024
11:07
ALSHS



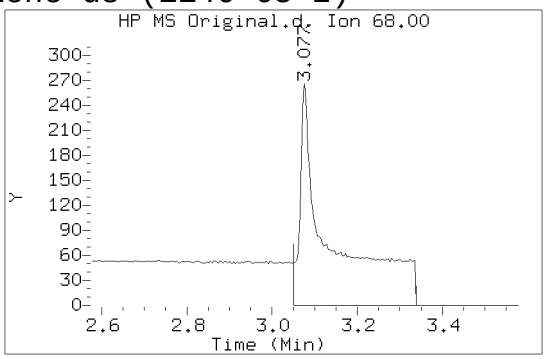
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\17.D
Inj Date : 18-APR-2024 17:38
InstruID : SV6.i
LabSampID : 14DX-0.08

Naphthalene-d8 (1146-65-2)

Reason Code:

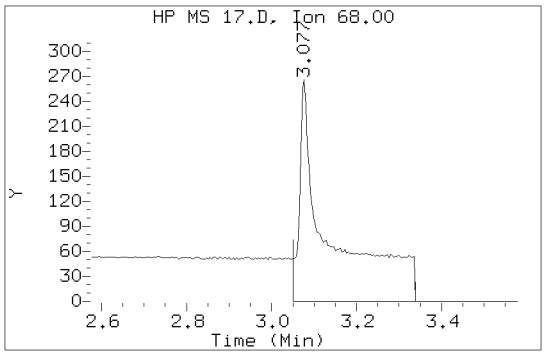
BEFORE

MASS
68
AREA
1281
HEIGHT
266
18-Apr-2024
18:17
ALSHS
Server



AFTER

MASS
68
AREA
1281
HEIGHT
266
06-Jun-2024
11:07
ALSHS

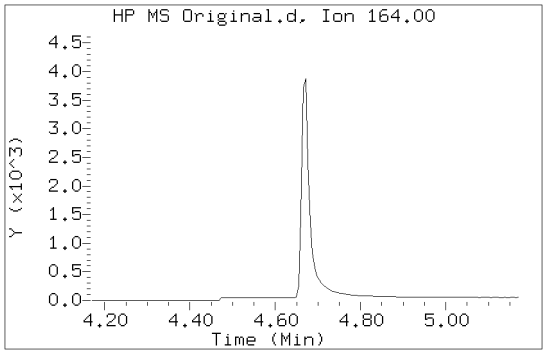


Acenaphthene-d10 (15067-26-2)

Reason Code:

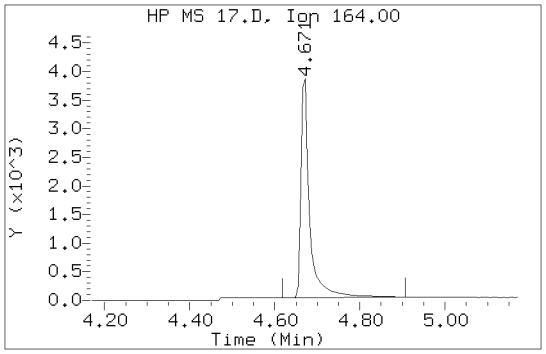
BEFORE

MASS
164
AREA
0
HEIGHT
0
18-Apr-2024
18:17
ALSHS
Server



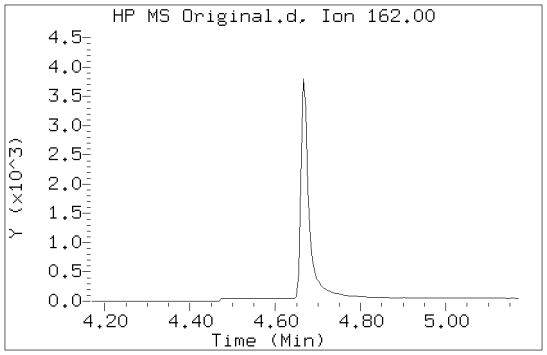
AFTER

MASS
164
AREA
5309
HEIGHT
3823
06-Jun-2024
11:07
ALSHS



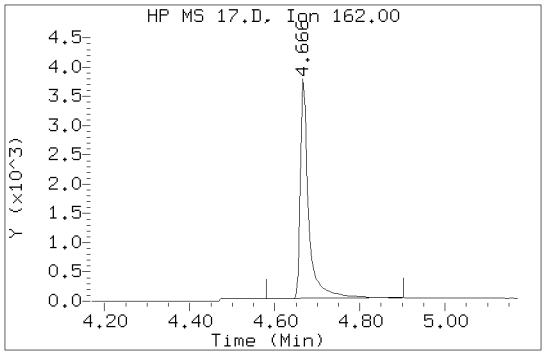
BEFORE

MASS
162
AREA
0
HEIGHT
0
18-Apr-2024
18:17
ALSHS
Server



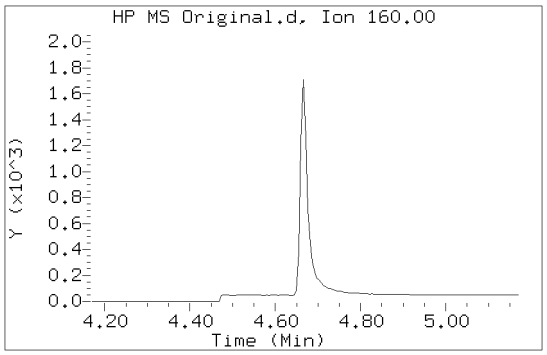
AFTER

MASS
162
AREA
4990
HEIGHT
3748
06-Jun-2024
11:07
ALSHS



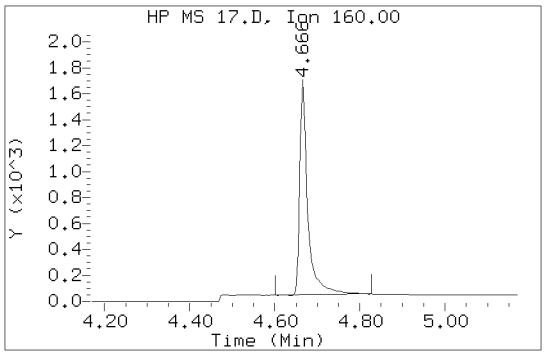
BEFORE

MASS
160
AREA
0
HEIGHT
0
18-Apr-2024
18:17
ALSHS
Server



AFTER

MASS
160
AREA
2136
HEIGHT
1658
06-Jun-2024
11:07
ALSHS



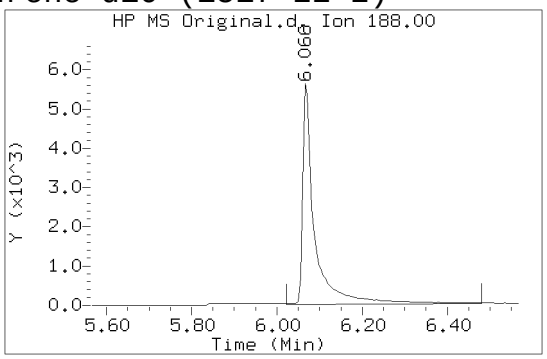
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\17.D
Inj Date : 18-APR-2024 17:38
InstruID : SV6.i
LabSampID : 14DX-0.08

Phenanthrene-d10 (1517-22-2)

Reason Code:

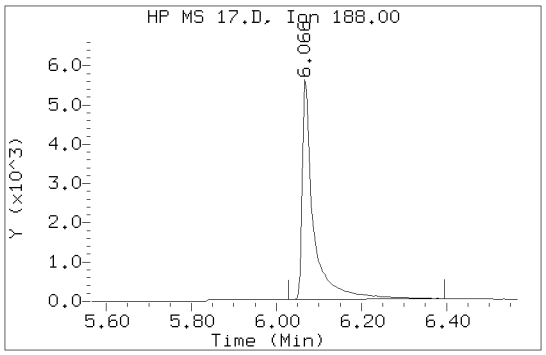
BEFORE

MASS
188
AREA
11199
HEIGHT
5626
18-Apr-2024
18:17
ALSHS
Server



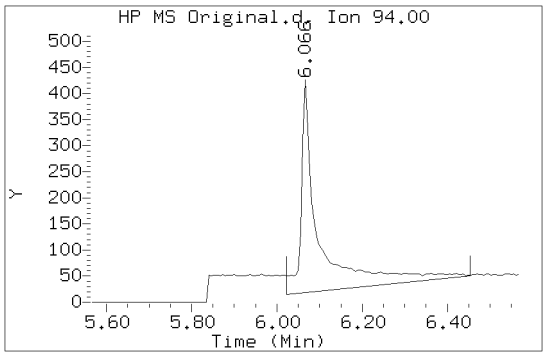
AFTER

MASS
188
AREA
10378
HEIGHT
5595
06-Jun-2024
11:07
ALSHS



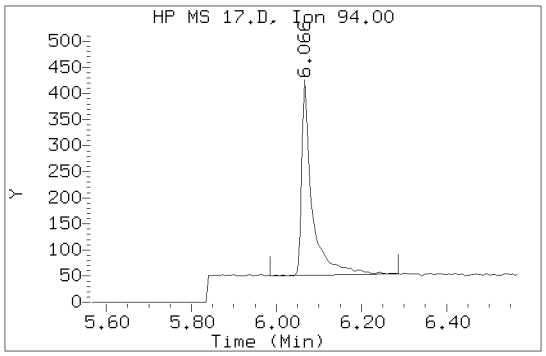
BEFORE

MASS
94
AREA
1169
HEIGHT
407
18-Apr-2024
18:17
ALSHS
Server



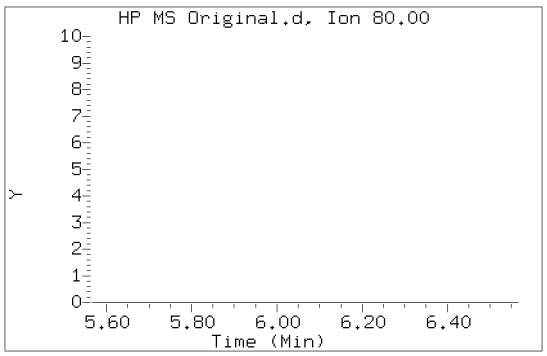
AFTER

MASS
94
AREA
647
HEIGHT
374
06-Jun-2024
11:07
ALSHS



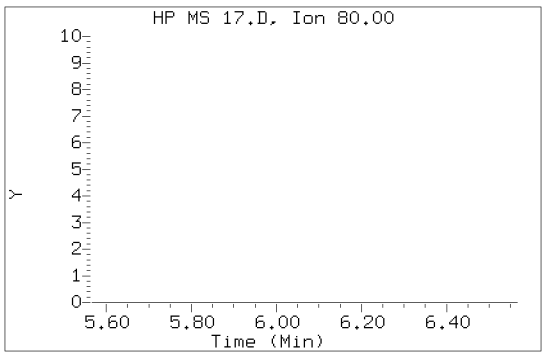
BEFORE

MASS
80
AREA
0
HEIGHT
0
18-Apr-2024
18:17
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
06-Jun-2024
11:07
ALSHS

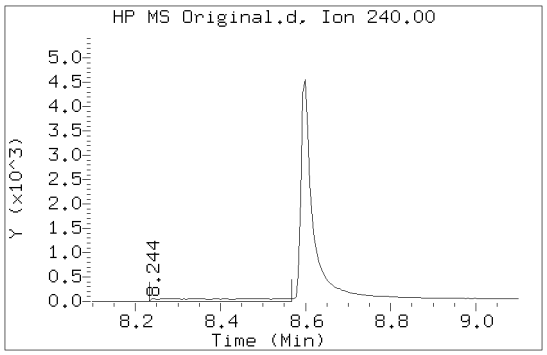


Chrysene-d12 (1719-03-5)

Reason Code:

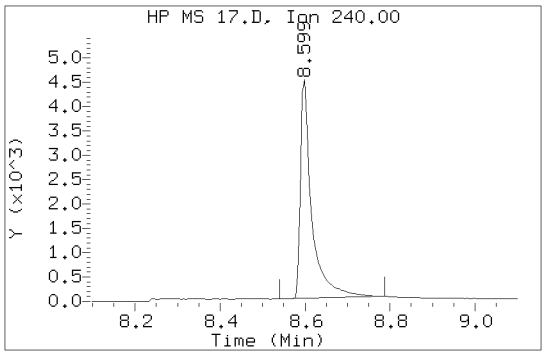
BEFORE

MASS
240
AREA
938
HEIGHT
48
18-Apr-2024
18:17
ALSHS
Server



AFTER

MASS
240
AREA
8268
HEIGHT
4495
06-Jun-2024
11:07
ALSHS



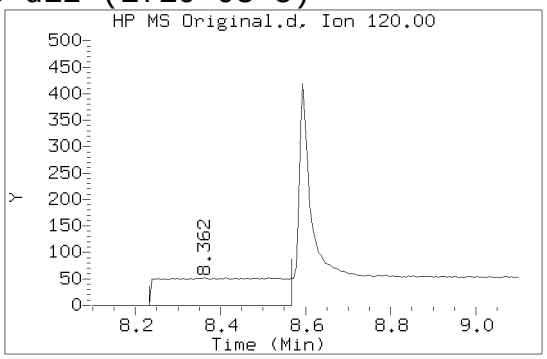
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\17.D
Inj Date : 18-APR-2024 17:38
InstruID : SV6.i
LabSampID : 14DX-0.08

Chrysene-d12 (1719-03-5)

Reason Code:

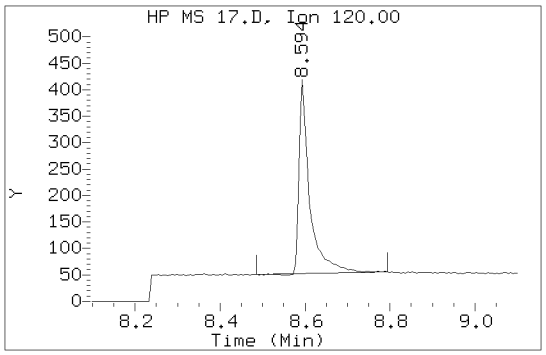
BEFORE

MASS
120
AREA
1010
HEIGHT
52
18-Apr-2024
18:17
ALSHS
Server



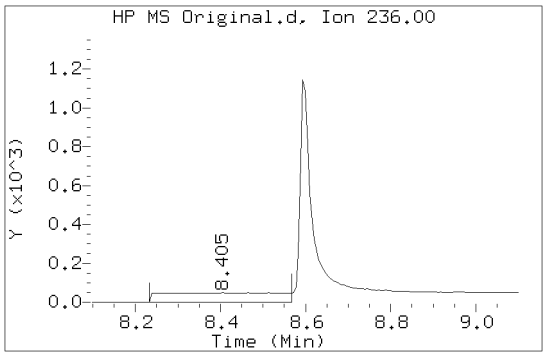
AFTER

MASS
120
AREA
626
HEIGHT
366
06-Jun-2024
11:07
ALSHS



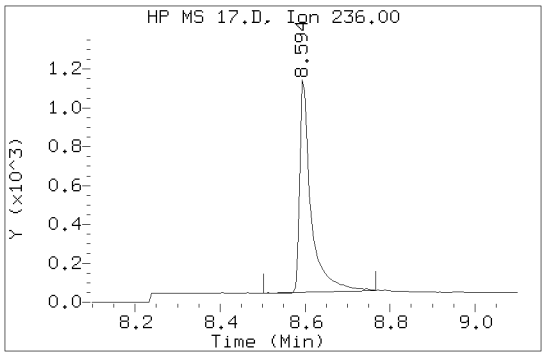
BEFORE

MASS
236
AREA
936
HEIGHT
48
18-Apr-2024
18:17
ALSHS
Server



AFTER

MASS
236
AREA
2008
HEIGHT
1093
06-Jun-2024
11:07
ALSHS

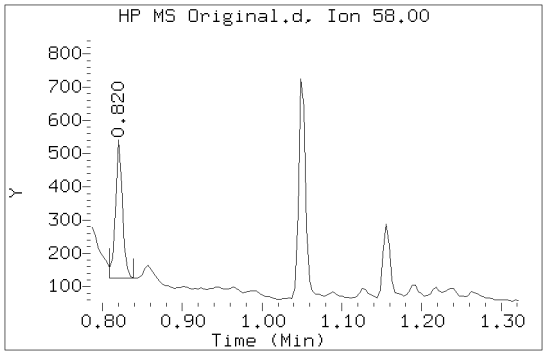


1,4-Dioxane ()

Reason Code:

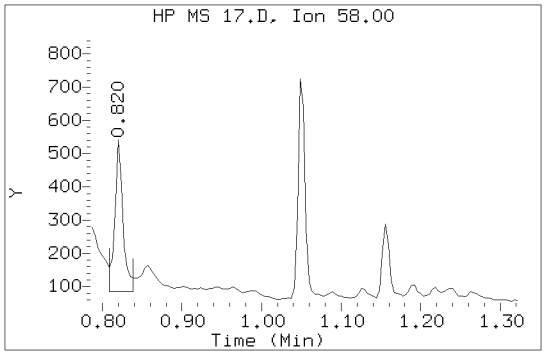
BEFORE

MASS
58
AREA
254
HEIGHT
416
18-Apr-2024
18:17
ALSHS
Server



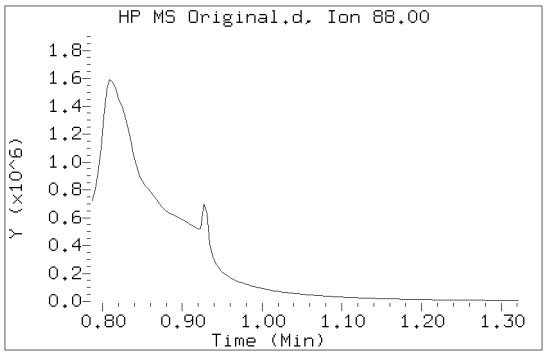
AFTER

MASS
58
AREA
334
HEIGHT
456
06-Jun-2024
11:07
ALSHS



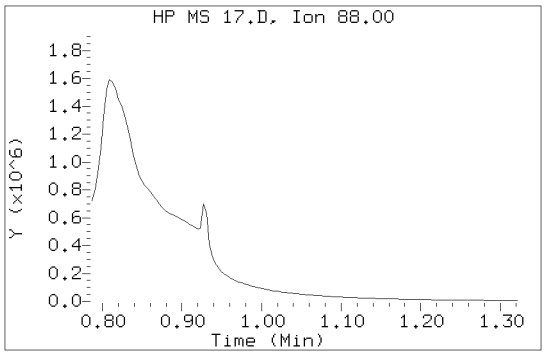
BEFORE

MASS
88
AREA
0
HEIGHT
0
18-Apr-2024
18:17
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
06-Jun-2024
11:07
ALSHS



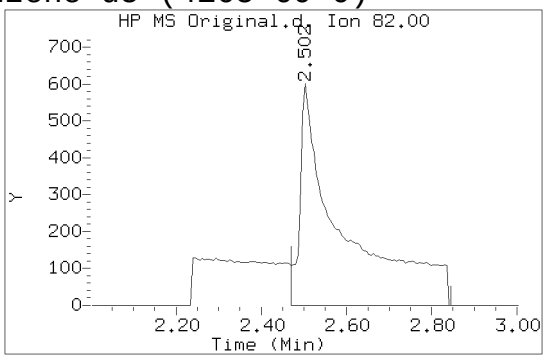
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\17.D
Inj Date : 18-APR-2024 17:38
InstruID : SV6.i
LabSampID : 14DX-0.08

Nitrobenzene-d5 (4165-60-0)

Reason Code:

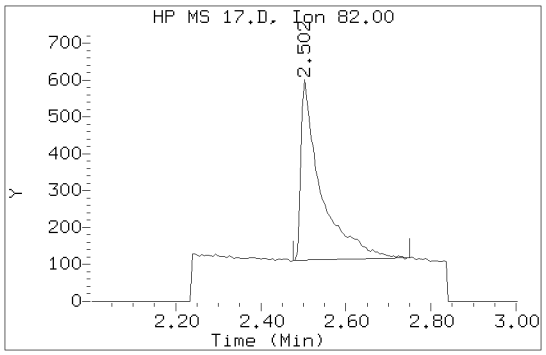
BEFORE

MASS
82
AREA
4102
HEIGHT
601
18-Apr-2024
18:17
ALSHS
Server



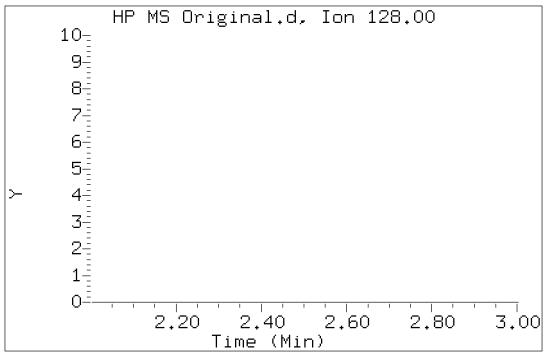
AFTER

MASS
82
AREA
1592
HEIGHT
489
06-Jun-2024
11:07
ALSHS



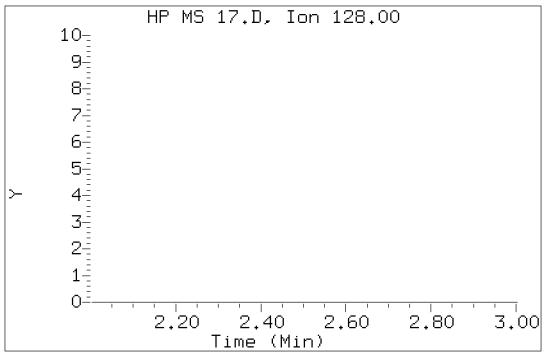
BEFORE

MASS
128
AREA
0
HEIGHT
0
18-Apr-2024
18:17
ALSHS
Server



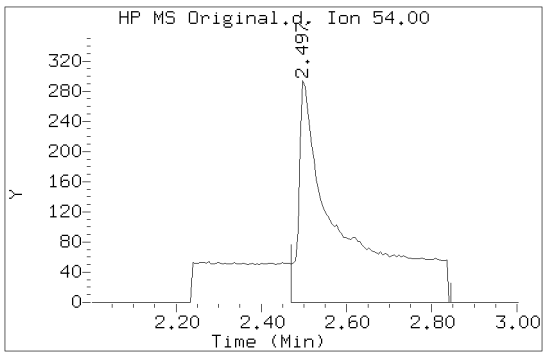
AFTER

MASS
128
AREA
0
HEIGHT
0
06-Jun-2024
11:07
ALSHS



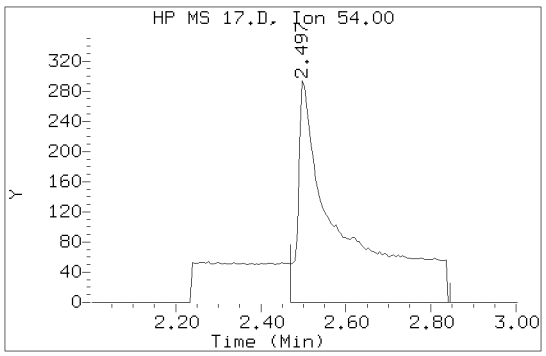
BEFORE

MASS
54
AREA
2035
HEIGHT
294
18-Apr-2024
18:17
ALSHS
Server



AFTER

MASS
54
AREA
2035
HEIGHT
294
06-Jun-2024
11:07
ALSHS

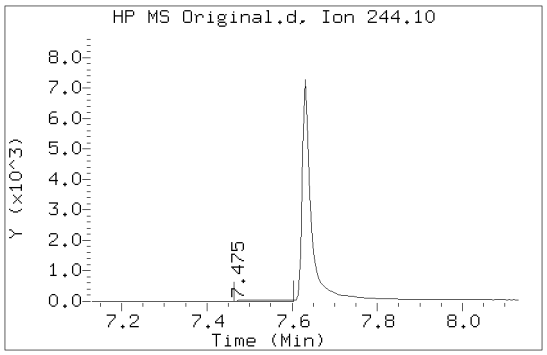


4-Terphenyl-d14 (1718-51-0)

Reason Code:

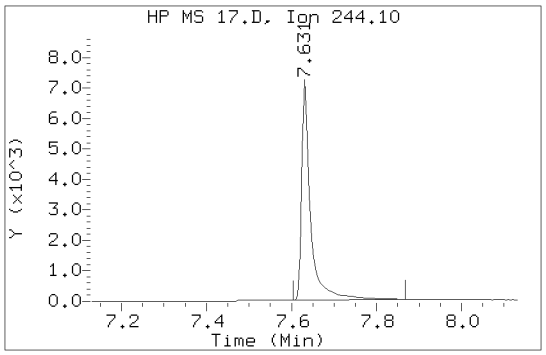
BEFORE

MASS
244.1
AREA
371
HEIGHT
47
18-Apr-2024
18:17
ALSHS
Server



AFTER

MASS
244.1
AREA
10461
HEIGHT
7231
06-Jun-2024
11:07
ALSHS



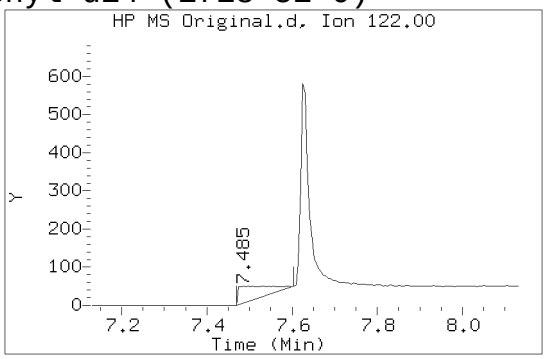
Data File : \\NAHSTWS005\Target\chem\SV6.i\240418.b\17.D
Inj Date : 18-APR-2024 17:38
InstruID : SV6.i
LabSampID : 14DX-0.08

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

Reason Code:

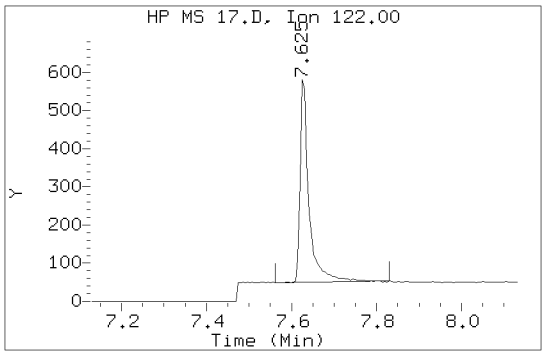
BEFORE

MASS
122
AREA
188
HEIGHT
44
18-Apr-2024
18:17
ALSHS
Server



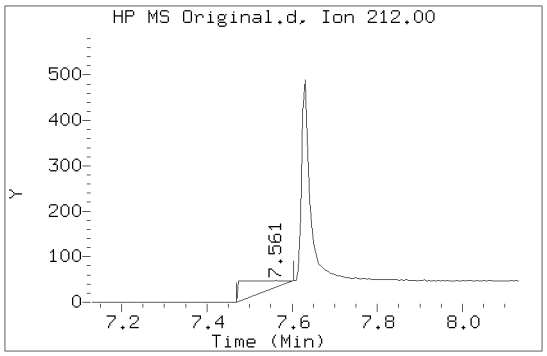
AFTER

MASS
122
AREA
775
HEIGHT
531
06-Jun-2024
11:07
ALSHS



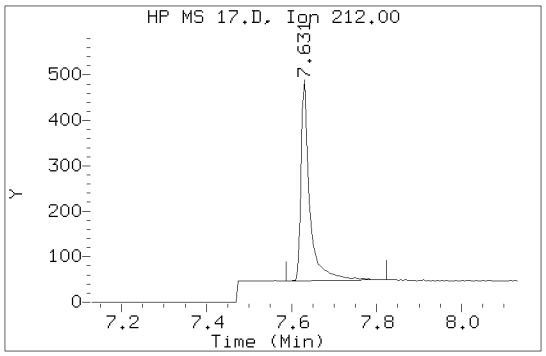
BEFORE

MASS
212
AREA
175
HEIGHT
15
18-Apr-2024
18:17
ALSHS
Server



AFTER

MASS
212
AREA
634
HEIGHT
441
06-Jun-2024
11:07
ALSHS

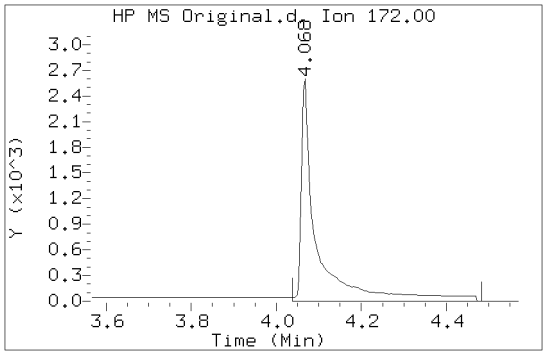


2-Fluorobiphenyl (321-60-8)

Reason Code:

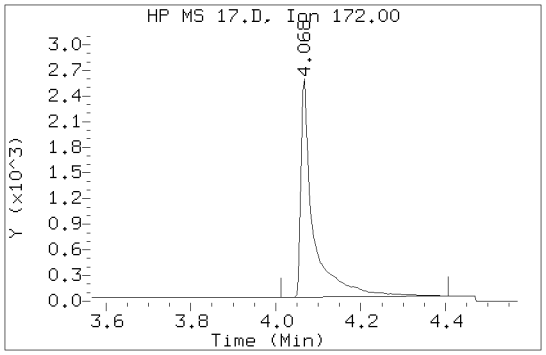
BEFORE

MASS
172
AREA
6693
HEIGHT
2600
18-Apr-2024
18:17
ALSHS
Server



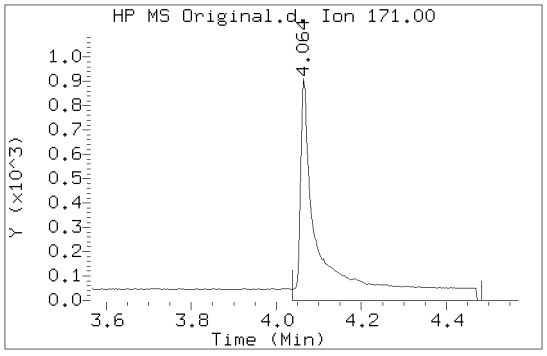
AFTER

MASS
172
AREA
5179
HEIGHT
2550
06-Jun-2024
11:07
ALSHS



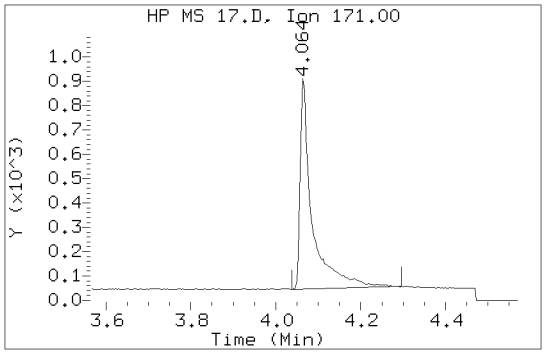
BEFORE

MASS
171
AREA
3060
HEIGHT
911
18-Apr-2024
18:17
ALSHS
Server



AFTER

MASS
171
AREA
1685
HEIGHT
863
06-Jun-2024
11:07
ALSHS



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

06/06/2024

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\240419.b\06.D Page 1
Report Date: 19-Apr-2024 14:43

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240419.b\06.D
Lab Smp Id: MBLK-210508
Inj Date : 19-APR-2024 13:48
Operator : LG Inst ID: SV6.i
Smp Info : MBLK-210508RR
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240419.b\DXSIM.m
Meth Date : 19-Apr-2024 13:14 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 6 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	2.057	2.057	(1.000)	3359	0.10000	(aM)
* 45 Naphthalene-d8	136	3.044	3.044	(1.000)	9864	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.470	2.470	(0.811)	2067	0.06980	0.06980(M)
* 86 Acenaphthene-d10	164	4.638	4.632	(1.000)	6390	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.032	4.032	(0.869)	6080	0.06224	0.06224(M)
* 126 Phenanthrene-d10	188	6.032	6.032	(1.000)	12170	0.10000	(M)
* 182 Chrysene-d12	240	8.566	8.560	(1.000)	9751	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.602	7.597	(0.888)	13155	0.06622	0.06622(M)
* 198 Perylene-d12	264	10.146	10.135	(1.000)	9482	0.10000	(M)

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\SV6.i\240419.b\06.D

Date : 19-APR-2024 13:48

Client ID:

Instrument: SV6.i

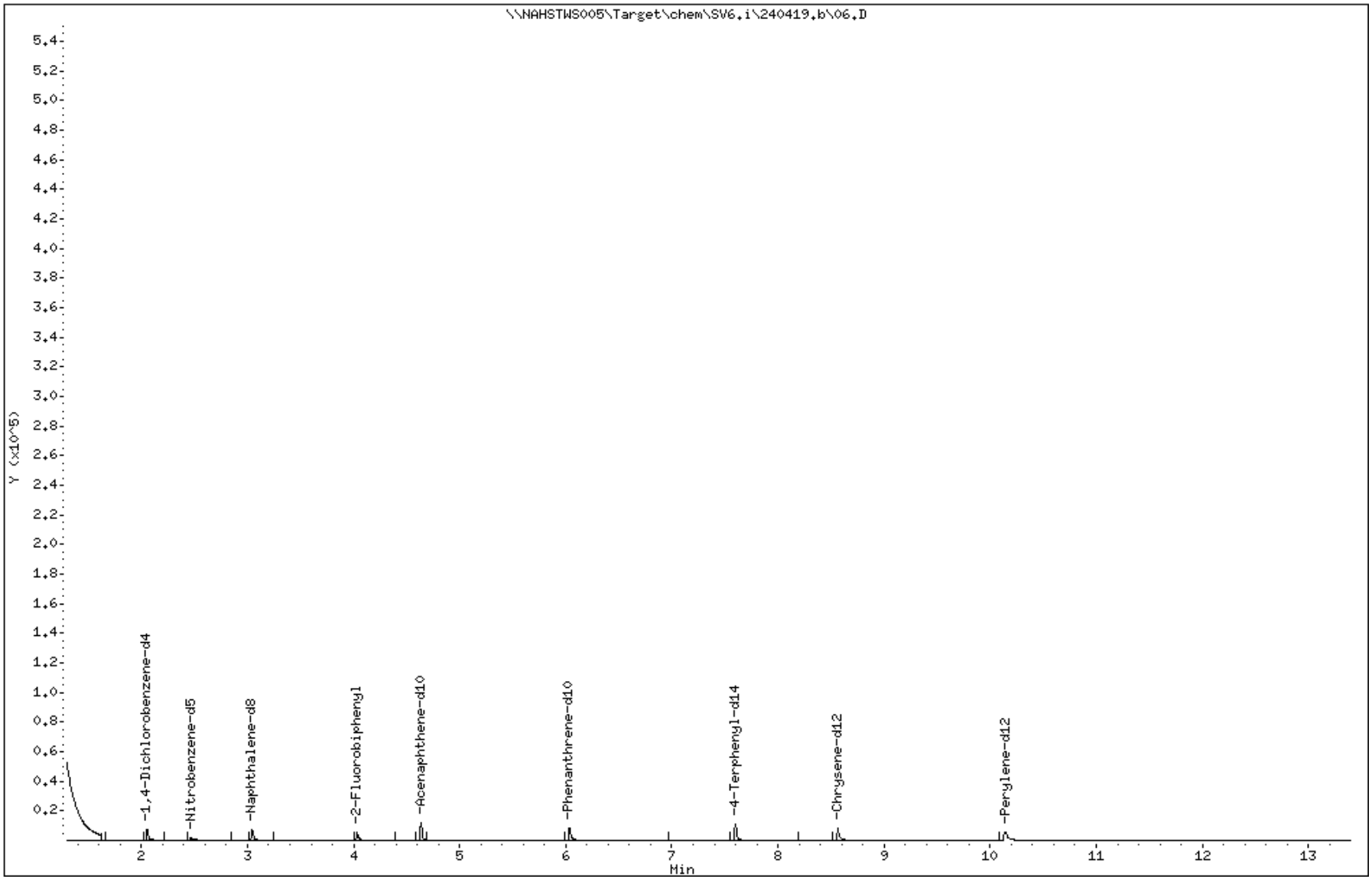
Sample Info: MBLK-210508RR

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



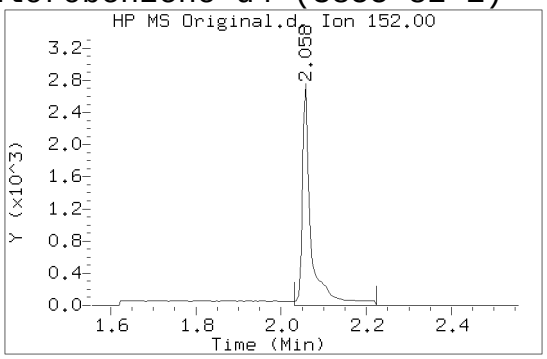
Data File : \\NAHSTWS005\Target\chem\SV6.i\240419.b\06.D
Inj Date : 19-APR-2024 13:48
InstruID : SV6.i
LabSampID : MBLK-210508

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

Reason Code:

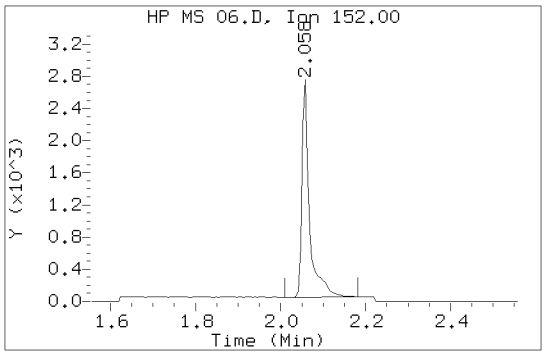
BEFORE

MASS
152
AREA
3993
HEIGHT
2758
19-Apr-2024
14:06
ALSHS
Server



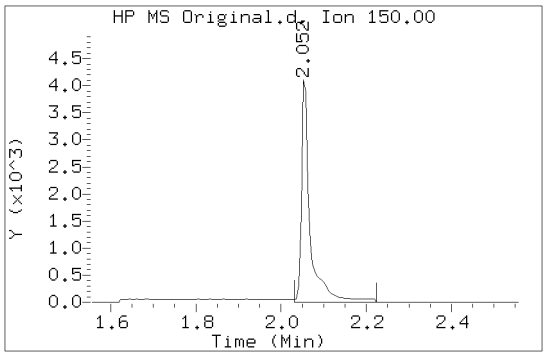
AFTER

MASS
152
AREA
3359
HEIGHT
2705
19-Apr-2024
14:43



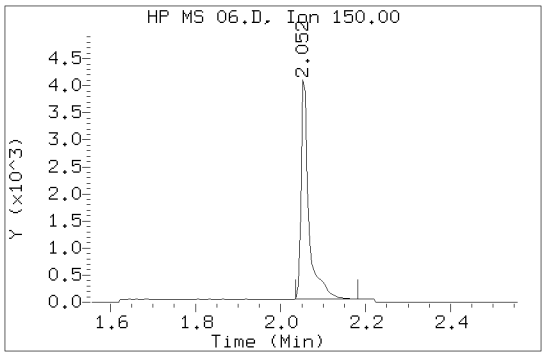
BEFORE

MASS
150
AREA
5900
HEIGHT
4108
19-Apr-2024
14:06
ALSHS
Server



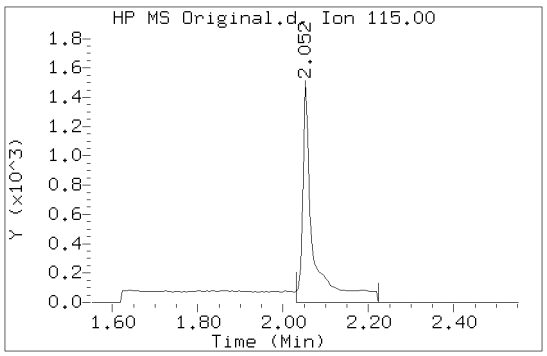
AFTER

MASS
150
AREA
5192
HEIGHT
4045
19-Apr-2024
14:43



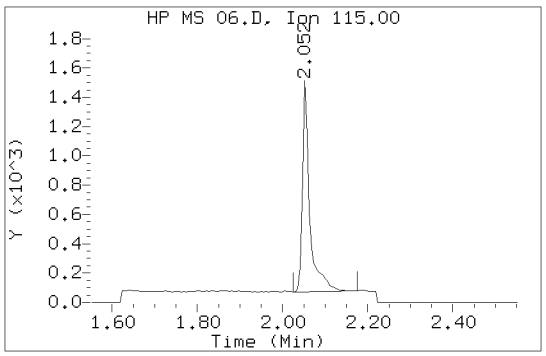
BEFORE

MASS
115
AREA
2593
HEIGHT
1513
19-Apr-2024
14:06
ALSHS
Server



AFTER

MASS
115
AREA
1706
HEIGHT
1439
19-Apr-2024
14:43

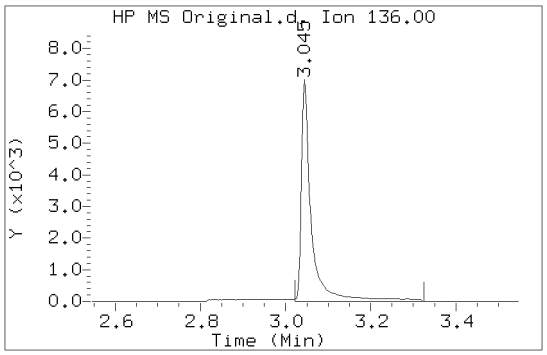


Naphthalene-d8 (1146-65-2)

Reason Code:

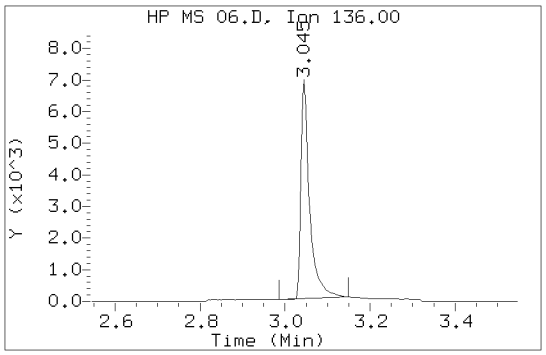
BEFORE

MASS
136
AREA
11565
HEIGHT
7009
19-Apr-2024
14:06
ALSHS
Server



AFTER

MASS
136
AREA
9864
HEIGHT
6924
19-Apr-2024
14:43



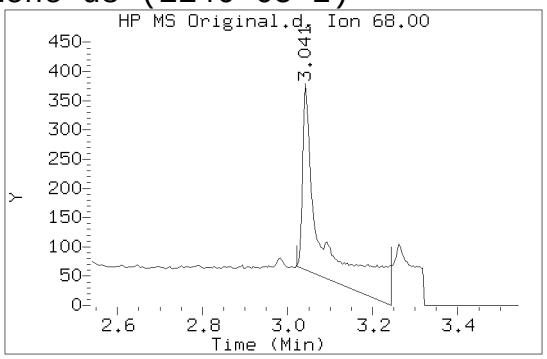
Data File : \\NAHSTWS005\Target\chem\SV6.i\240419.b\06.D
Inj Date : 19-APR-2024 13:48
InstruID : SV6.i
LabSampID : MBLK-210508

Naphthalene-d8 (1146-65-2)

Reason Code:

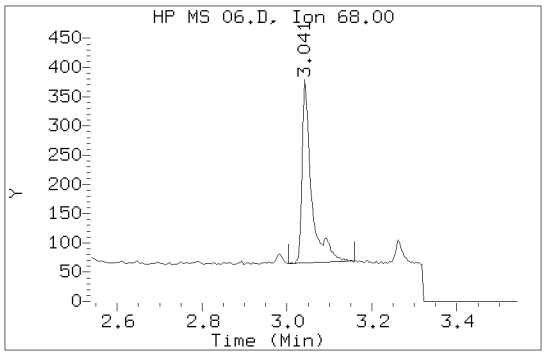
BEFORE

MASS
68
AREA
935
HEIGHT
317
19-Apr-2024
14:06
ALSHS
Server



AFTER

MASS
68
AREA
480
HEIGHT
313
19-Apr-2024
14:43

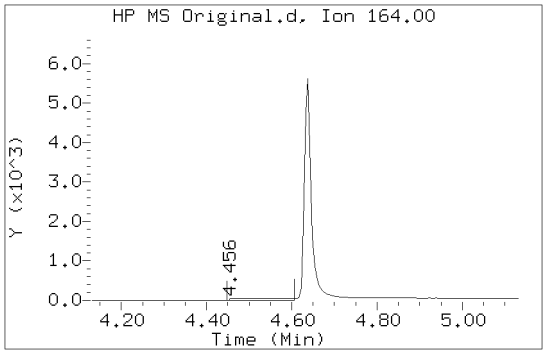


Acenaphthene-d10 (15067-26-2)

Reason Code:

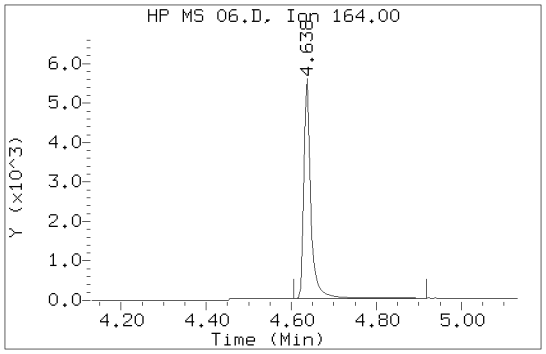
BEFORE

MASS
164
AREA
489
HEIGHT
56
19-Apr-2024
14:06
ALSHS
Server



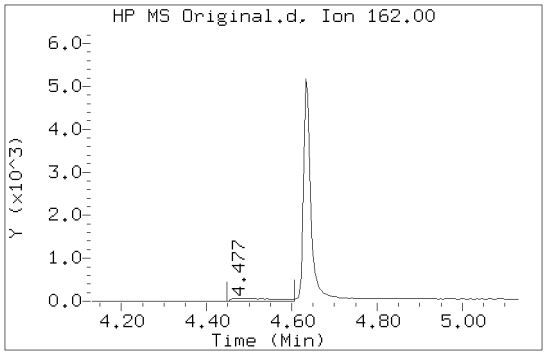
AFTER

MASS
164
AREA
6390
HEIGHT
5566
19-Apr-2024
14:43



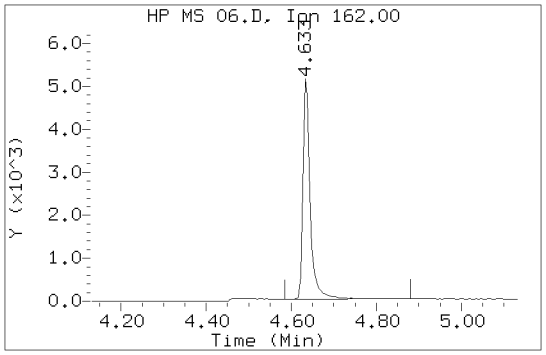
BEFORE

MASS
162
AREA
482
HEIGHT
58
19-Apr-2024
14:06
ALSHS
Server



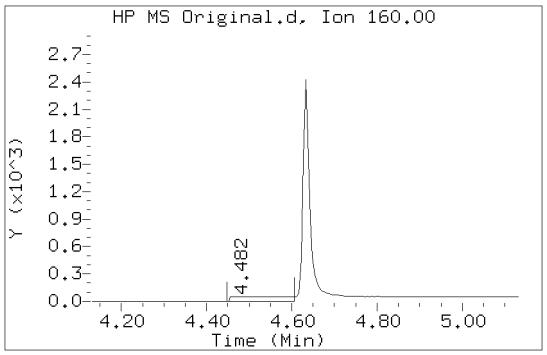
AFTER

MASS
162
AREA
6053
HEIGHT
5123
19-Apr-2024
14:43



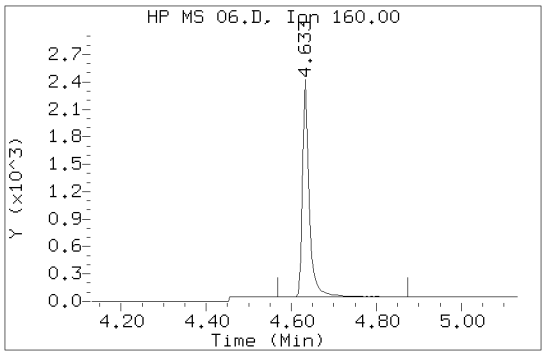
BEFORE

MASS
160
AREA
446
HEIGHT
50
19-Apr-2024
14:06
ALSHS
Server



AFTER

MASS
160
AREA
2648
HEIGHT
2375
19-Apr-2024
14:43

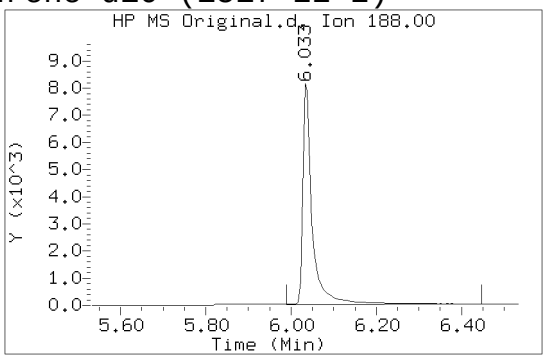


Data File : \\NAHSTWS005\Target\chem\SV6.i\240419.b\06.D
Inj Date : 19-APR-2024 13:48
InstruID : SV6.i
LabSampID : MBLK-210508

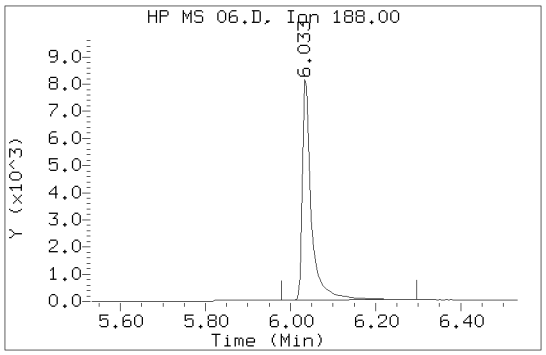
Phenanthrene-d10 (1517-22-2)

Reason Code:

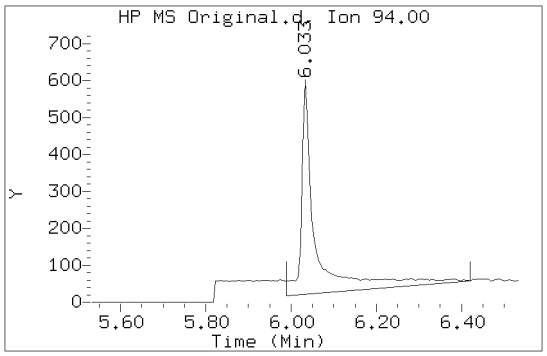
BEFORE
MASS
188
AREA
12887
HEIGHT
8143
19-Apr-2024
14:06
ALSHS
Server



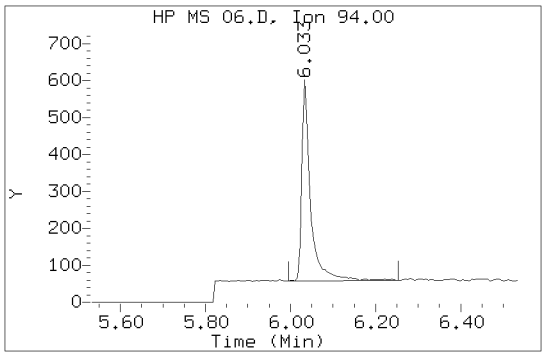
AFTER
MASS
188
AREA
12170
HEIGHT
8111
19-Apr-2024
14:43



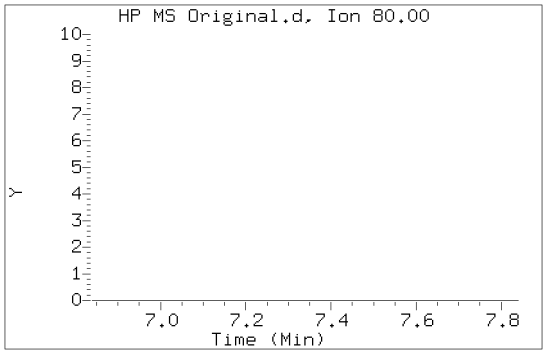
BEFORE
MASS
94
AREA
1356
HEIGHT
580
19-Apr-2024
14:06
ALSHS
Server



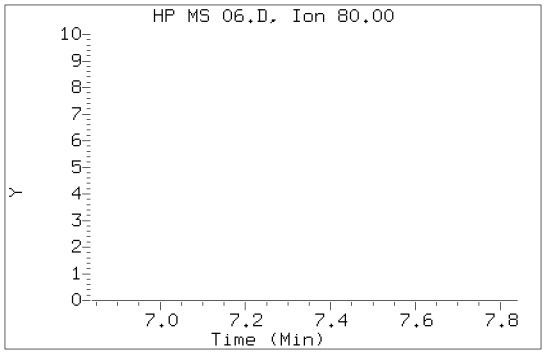
AFTER
MASS
94
AREA
785
HEIGHT
543
19-Apr-2024
14:43



BEFORE
MASS
80
AREA
0
HEIGHT
0
19-Apr-2024
14:06
ALSHS
Server



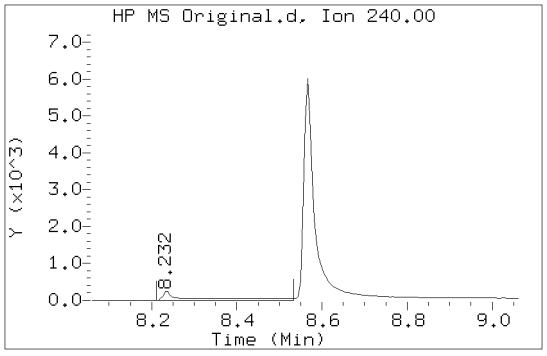
AFTER
MASS
80
AREA
0
HEIGHT
0
19-Apr-2024
14:43



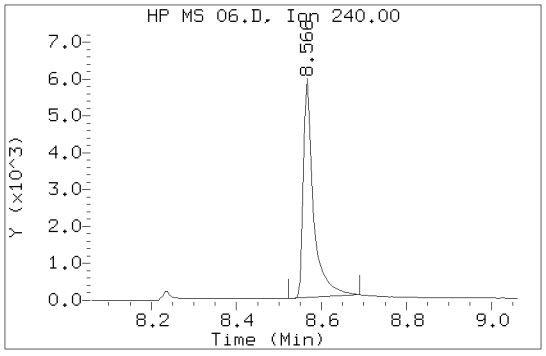
Chrysene-d12 (1719-03-5)

Reason Code:

BEFORE
MASS
240
AREA
1178
HEIGHT
239
19-Apr-2024
14:06
ALSHS
Server



AFTER
MASS
240
AREA
9751
HEIGHT
5934
19-Apr-2024
14:43



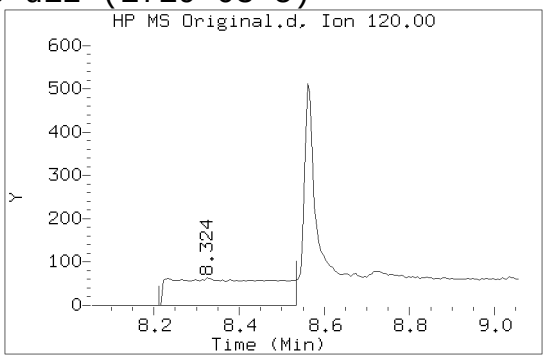
Data File : \\NAHSTWS005\Target\chem\SV6.i\240419.b\06.D
Inj Date : 19-APR-2024 13:48
InstruID : SV6.i
LabSampID : MBLK-210508

Chrysene-d12 (1719-03-5)

Reason Code:

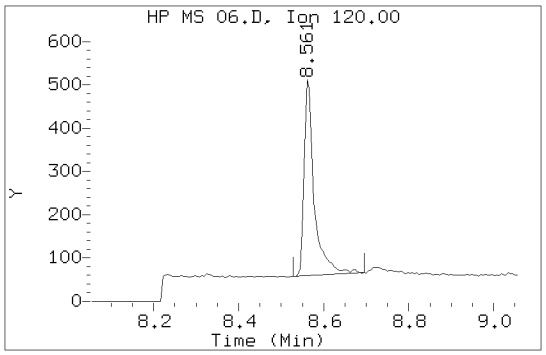
BEFORE

MASS
120
AREA
1097
HEIGHT
63
19-Apr-2024
14:06
ALSHS
Server



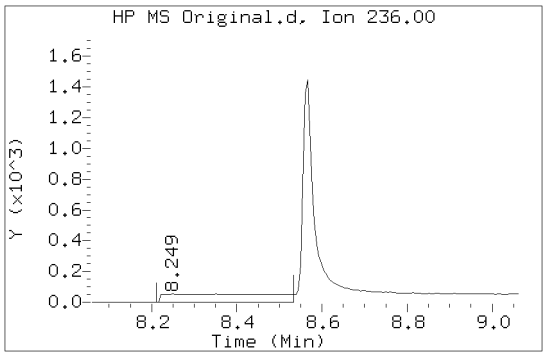
AFTER

MASS
120
AREA
743
HEIGHT
453
19-Apr-2024
14:43



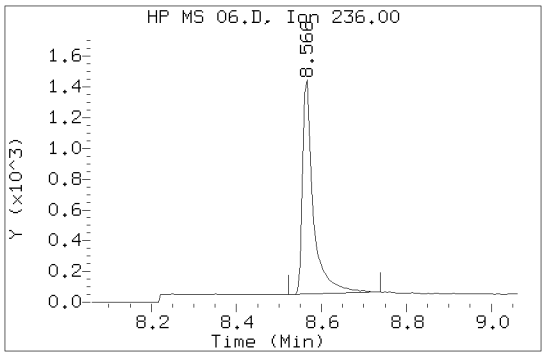
BEFORE

MASS
236
AREA
969
HEIGHT
53
19-Apr-2024
14:06
ALSHS
Server



AFTER

MASS
236
AREA
2455
HEIGHT
1392
19-Apr-2024
14:43

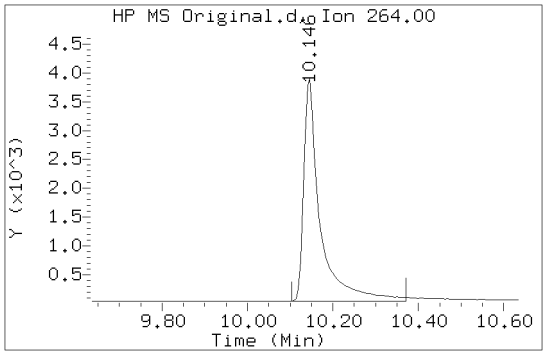


Perylene-d12 (1520-96-3)

Reason Code:

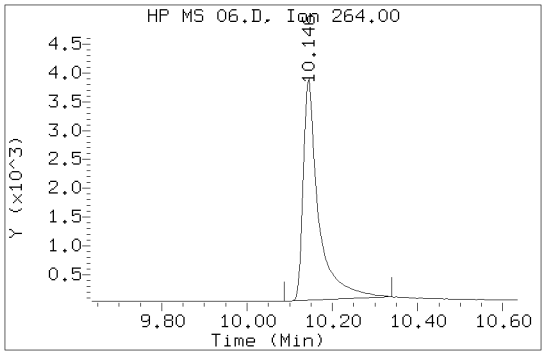
BEFORE

MASS
264
AREA
10194
HEIGHT
3841
19-Apr-2024
14:06
ALSHS
Server



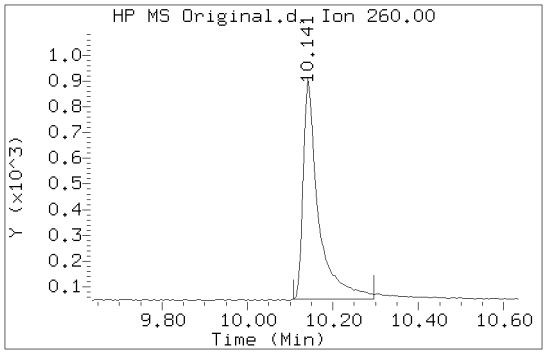
AFTER

MASS
264
AREA
9482
HEIGHT
3823
19-Apr-2024
14:43



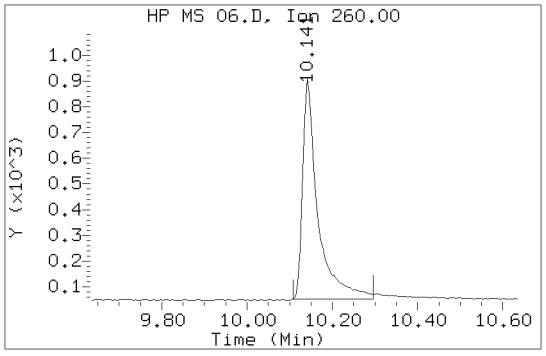
BEFORE

MASS
260
AREA
2123
HEIGHT
857
19-Apr-2024
14:06
ALSHS
Server



AFTER

MASS
260
AREA
2123
HEIGHT
857
19-Apr-2024
14:43



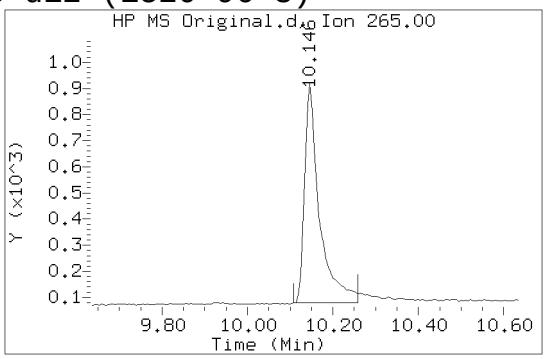
Data File : \\NAHSTWS005\Target\chem\SV6.i\240419.b\06.D
Inj Date : 19-APR-2024 13:48
InstruID : SV6.i
LabSampID : MBLK-210508

Perylene-d12 (1520-96-3)

Reason Code:

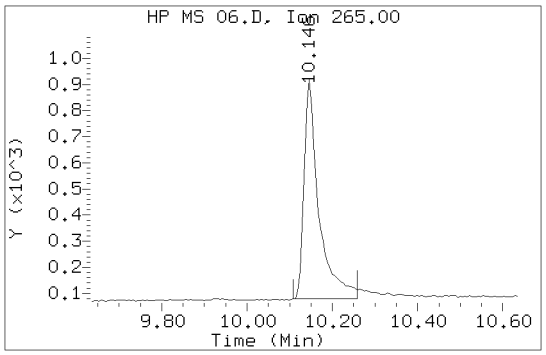
BEFORE

MASS
265
AREA
2025
HEIGHT
839
19-Apr-2024
14:06
ALSHS
Server



AFTER

MASS
265
AREA
2025
HEIGHT
839
19-Apr-2024
14:43

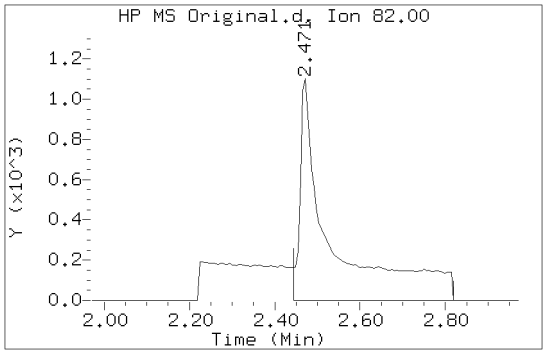


Nitrobenzene-d5 (4165-60-0)

Reason Code:

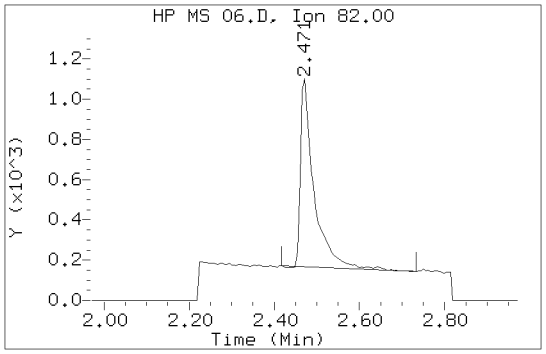
BEFORE

MASS
82
AREA
5541
HEIGHT
1102
19-Apr-2024
14:06
ALSHS
Server



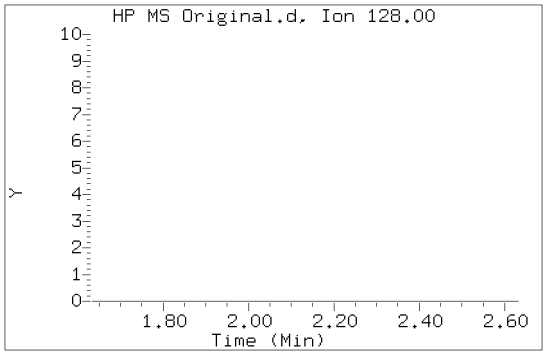
AFTER

MASS
82
AREA
2067
HEIGHT
935
19-Apr-2024
14:43



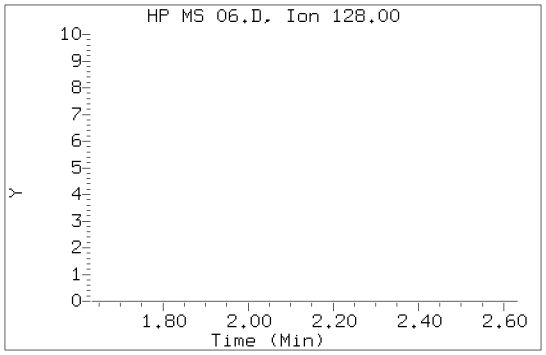
BEFORE

MASS
128
AREA
0
HEIGHT
0
19-Apr-2024
14:06
ALSHS
Server



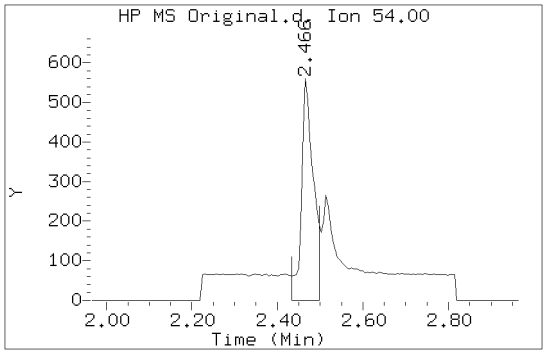
AFTER

MASS
128
AREA
0
HEIGHT
0
19-Apr-2024
14:43



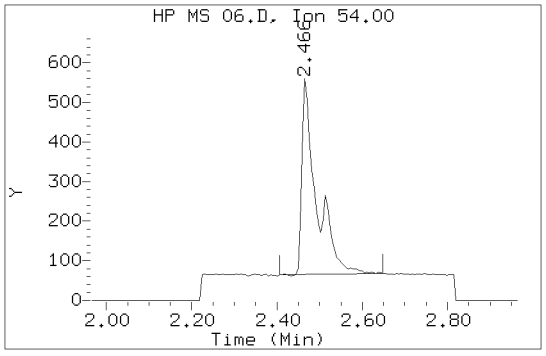
BEFORE

MASS
54
AREA
1095
HEIGHT
560
19-Apr-2024
14:06
ALSHS
Server



AFTER

MASS
54
AREA
1185
HEIGHT
495
19-Apr-2024
14:43



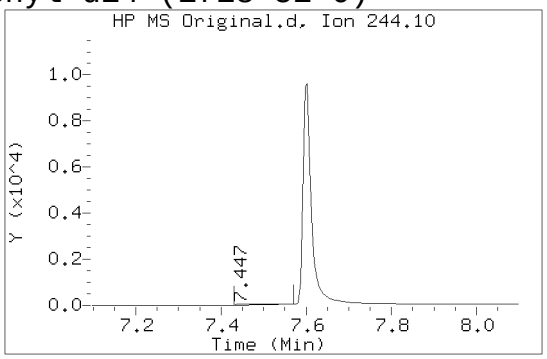
Data File : \\NAHSTWS005\Target\chem\SV6.i\240419.b\06.D
Inj Date : 19-APR-2024 13:48
InstruID : SV6.i
LabSampID : MBLK-210508

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

Reason Code:

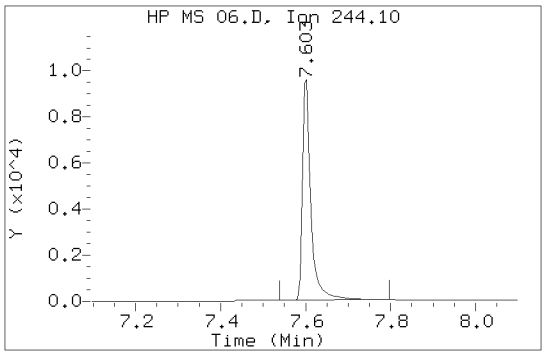
BEFORE

MASS
244.1
AREA
188
HEIGHT
42
19-Apr-2024
14:06
ALSHS
Server



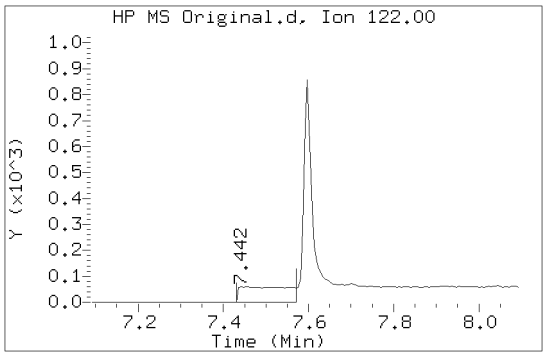
AFTER

MASS
244.1
AREA
13155
HEIGHT
9564
19-Apr-2024
14:43



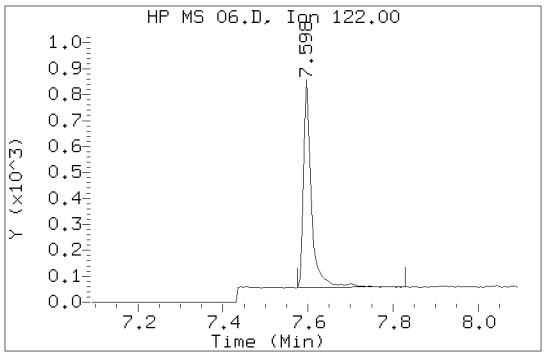
BEFORE

MASS
122
AREA
478
HEIGHT
59
19-Apr-2024
14:06
ALSHS
Server



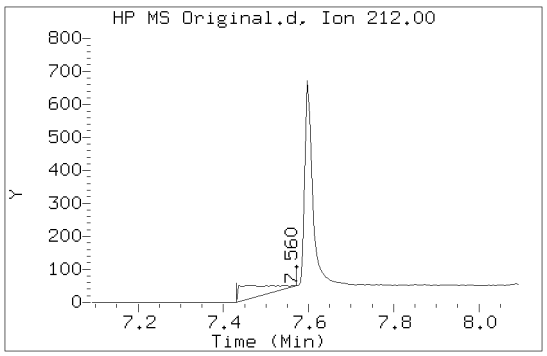
AFTER

MASS
122
AREA
1030
HEIGHT
799
19-Apr-2024
14:43



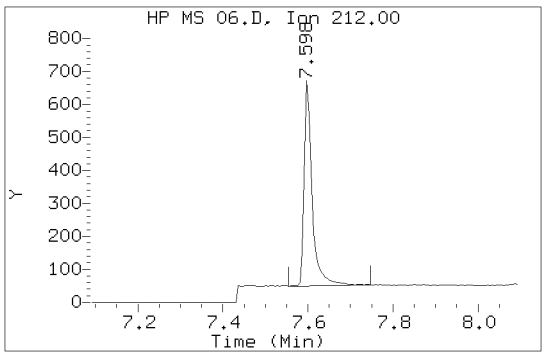
BEFORE

MASS
212
AREA
194
HEIGHT
3
19-Apr-2024
14:06
ALSHS
Server



AFTER

MASS
212
AREA
811
HEIGHT
622
19-Apr-2024
14:43

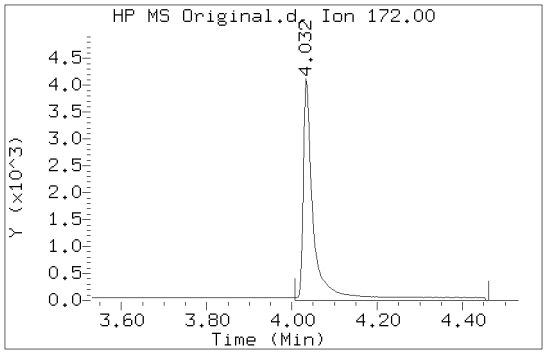


2-Fluorobiphenyl (321-60-8)

Reason Code:

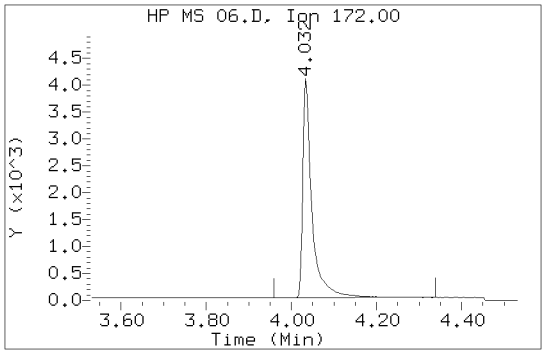
BEFORE

MASS
172
AREA
7501
HEIGHT
4122
19-Apr-2024
14:06
ALSHS
Server



AFTER

MASS
172
AREA
6080
HEIGHT
4072
19-Apr-2024
14:43



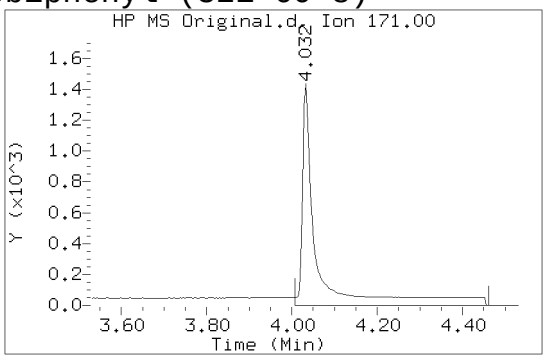
Data File : \\NAHSTWS005\Target\chem\SV6.i\240419.b\06.D
Inj Date : 19-APR-2024 13:48
InstruID : SV6.i
LabSampID : MBLK-210508

2-Fluorobiphenyl (321-60-8)

Reason Code:

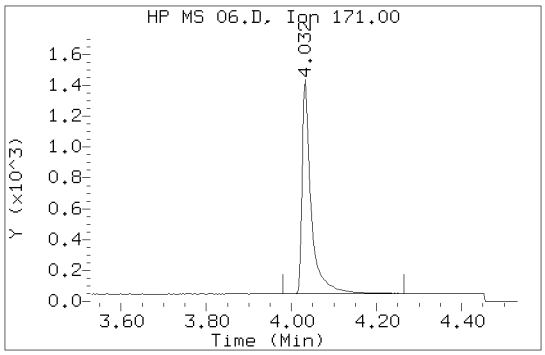
BEFORE

MASS
171
AREA
3395
HEIGHT
1437
19-Apr-2024
14:06
ALSHS
Server



AFTER

MASS
171
AREA
2026
HEIGHT
1386
19-Apr-2024
14:43



Data File: \\NAHSTWS005\Target\chem\SV6.i\240419.b\07.D Page 1
Report Date: 19-Apr-2024 14:53

ALS Laboratory Group

GC/MS Semivolatiles EPA method 8270D

Data file : \\NAHSTWS005\Target\chem\SV6.i\240419.b\07.D
Lab Smp Id: HS24040786-01
Inj Date : 19-APR-2024 14:23
Operator : LG Inst ID: SV6.i
Smp Info : HS24040786-01X10
Misc Info :
Comment :
Method : \\nahstws005\Target\chem\SV6.i\240419.b\DXSIM.m
Meth Date : 19-Apr-2024 13:14 marco.guti Quant Type: ISTD
Cal Date : 18-APR-2024 14:35 Cal File: 10.D
Als bottle: 7
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	2.057	2.057	(1.000)	3103	0.10000	(aM)
* 45 Naphthalene-d8	136	3.044	3.044	(1.000)	9668	0.10000	(M)
$ 33 Nitrobenzene-d5	82	2.471	2.470	(0.811)	254	0.00875	0.08751(M)
* 86 Acenaphthene-d10	164	4.638	4.632	(1.000)	5930	0.10000	(M)
$ 69 2-Fluorobiphenyl	172	4.032	4.032	(0.869)	571	0.00630	0.06299(M)
* 126 Phenanthrene-d10	188	6.032	6.032	(1.000)	11449	0.10000	(M)
* 182 Chrysene-d12	240	8.566	8.560	(1.000)	9029	0.10000	(M)
$ 158 4-Terphenyl-d14	244	7.603	7.597	(0.888)	1328	0.00722	0.07220(M)
* 198 Perylene-d12	264	10.146	10.135	(1.000)	9159	0.10000	
1 1,4-Dioxane	58	1.066	1.022	(0.518)	121	0.01821	0.1820(M)

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\SV6.i\240419.b\07.D

Date : 19-APR-2024 14:23

Client ID:

Instrument: SV6.i

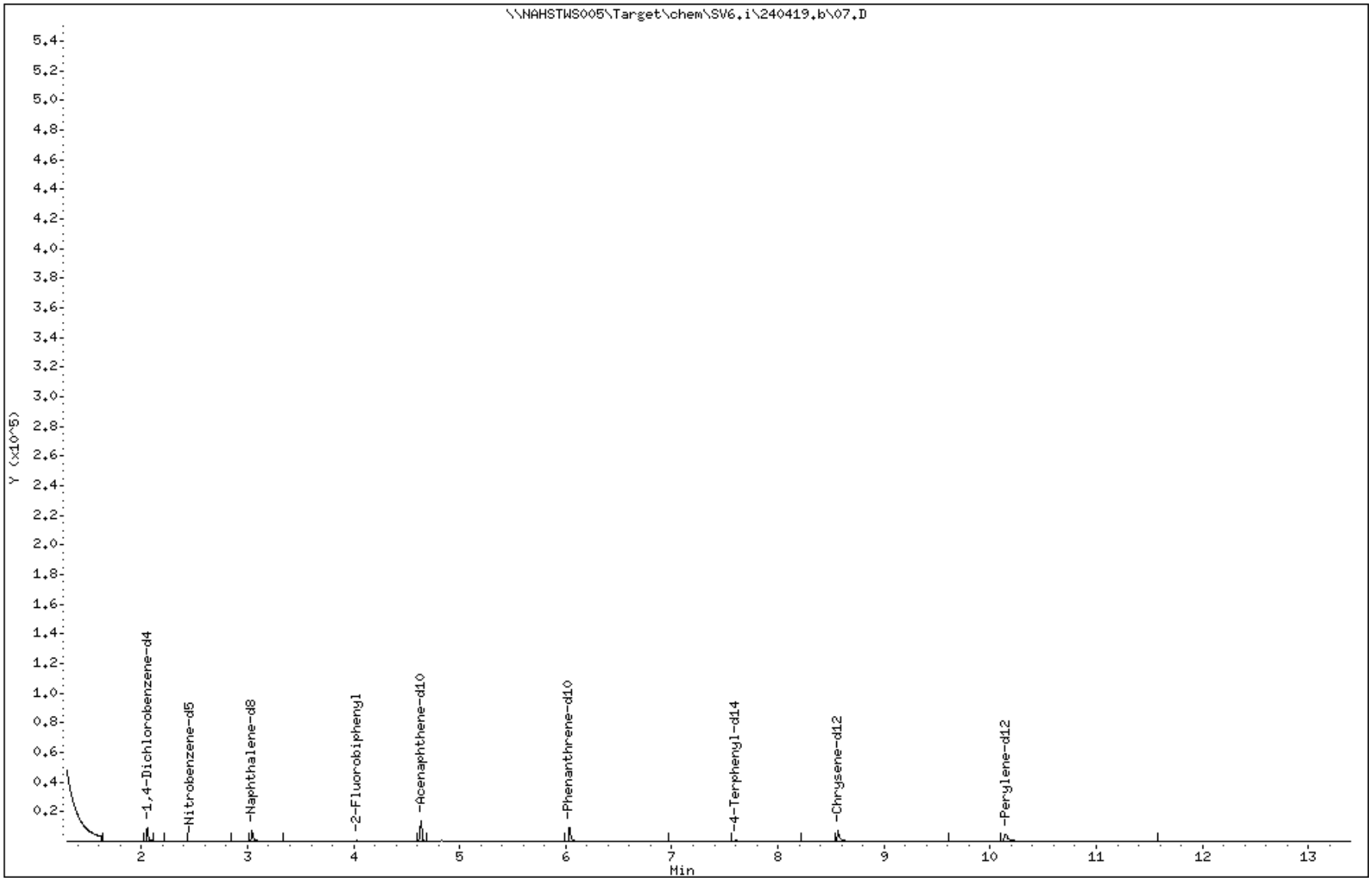
Sample Info: HS24040786-01X10

Purge Volume: 1000.0

Operator: LG

Column phase: RTX-5SIL MS

Column diameter: 0.28



Data File: \\NAHSTWS005\Target\chem\SV6.i\240419.b\07.D

Date : 19-APR-2024 14:23

Client ID:

Instrument: SV6.i

Sample Info: HS24040786-01X10

Purge Volume: 1000.0

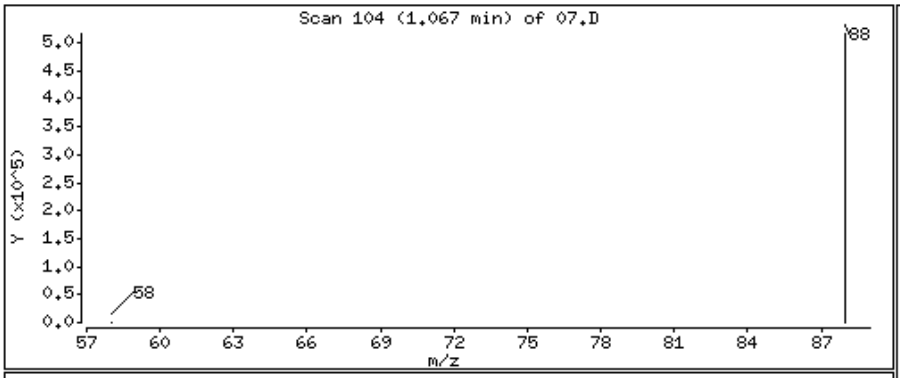
Operator: LG

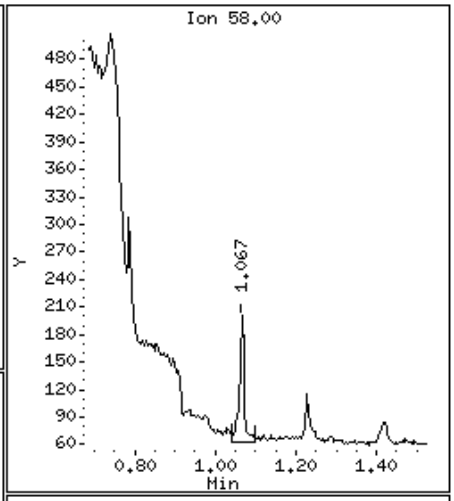
Column phase: RTX-5SIL MS

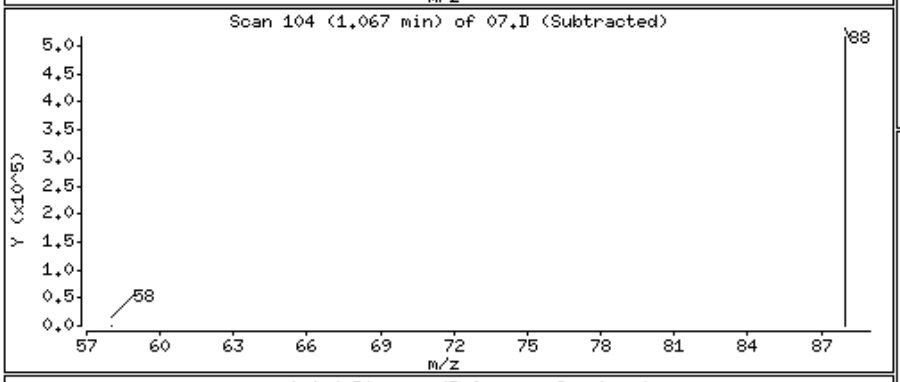
Column diameter: 0.28

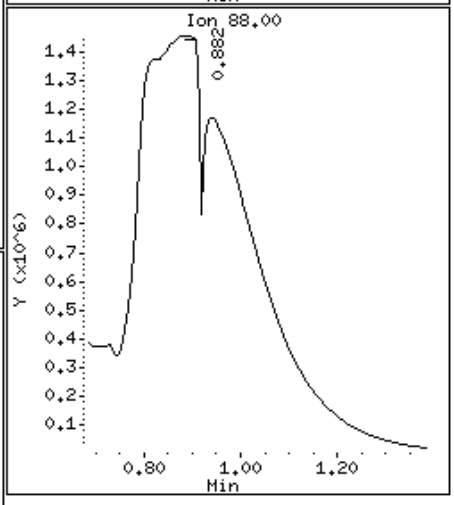
1 1,4-Dioxane

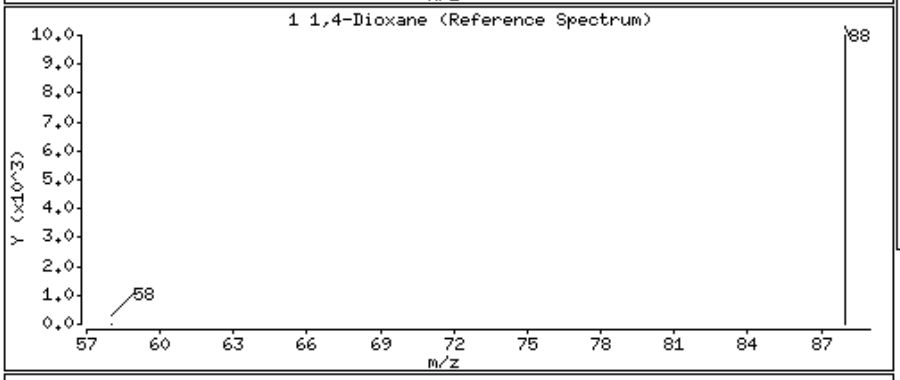
Concentration: 0.1820 ug/L

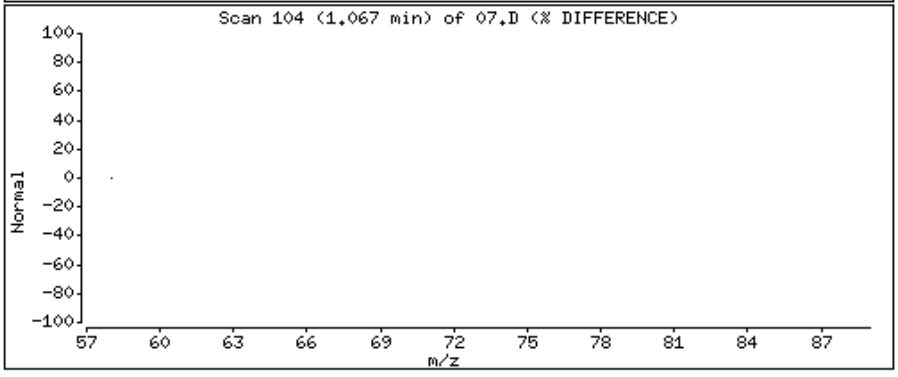












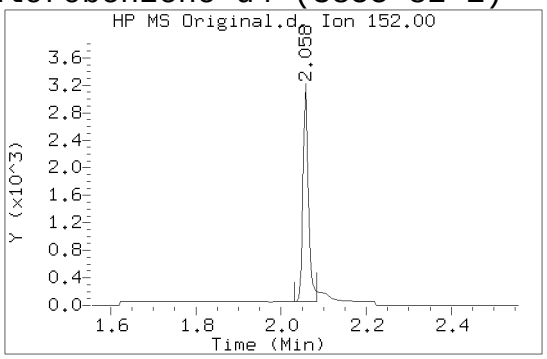
Data File : \\NAHSTWS005\Target\chem\SV6.i\240419.b\07.D
Inj Date : 19-APR-2024 14:23
InstruID : SV6.i
LabSampID : HS24040786-01

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

Reason Code:

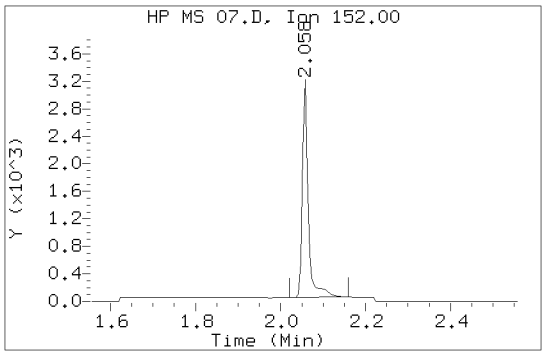
BEFORE

MASS
152
AREA
2876
HEIGHT
3172
19-Apr-2024
14:39
ALSHS
Server



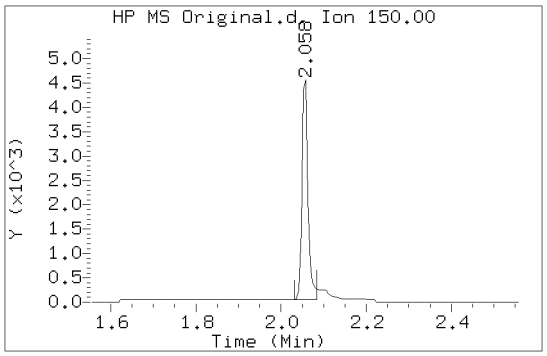
AFTER

MASS
152
AREA
3103
HEIGHT
3169
19-Apr-2024
14:53



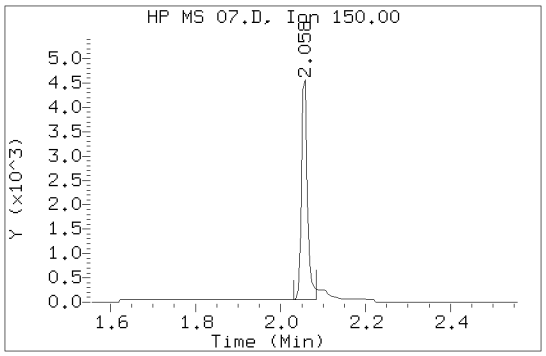
BEFORE

MASS
150
AREA
4531
HEIGHT
4510
19-Apr-2024
14:39
ALSHS
Server



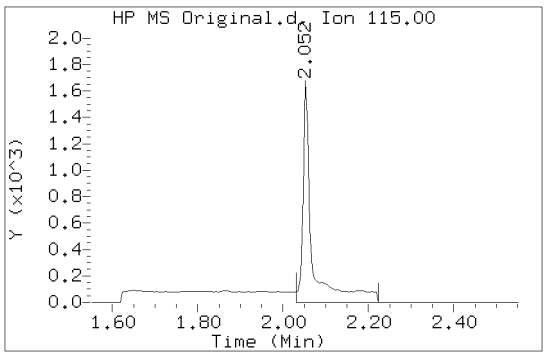
AFTER

MASS
150
AREA
4531
HEIGHT
4510
19-Apr-2024
14:53



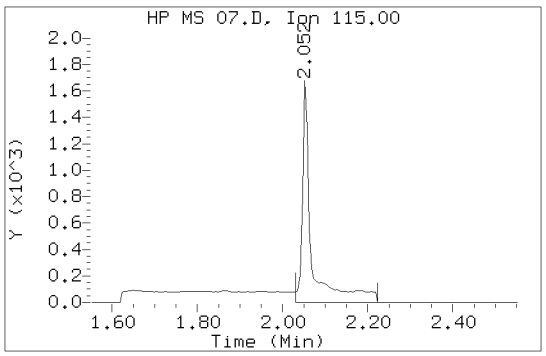
BEFORE

MASS
115
AREA
2529
HEIGHT
1677
19-Apr-2024
14:39
ALSHS
Server



AFTER

MASS
115
AREA
2529
HEIGHT
1677
19-Apr-2024
14:53

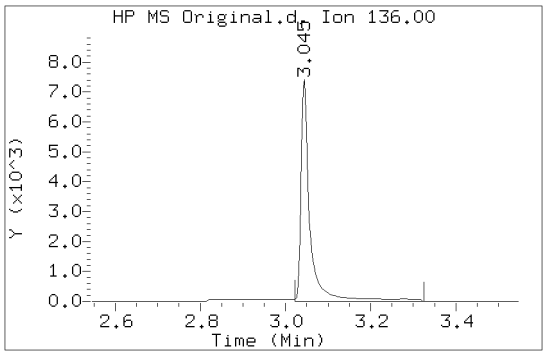


Naphthalene-d8 (1146-65-2)

Reason Code:

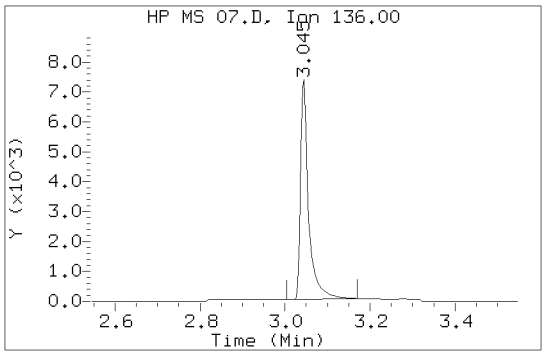
BEFORE

MASS
136
AREA
11043
HEIGHT
7413
19-Apr-2024
14:39
ALSHS
Server



AFTER

MASS
136
AREA
9668
HEIGHT
7346
19-Apr-2024
14:53



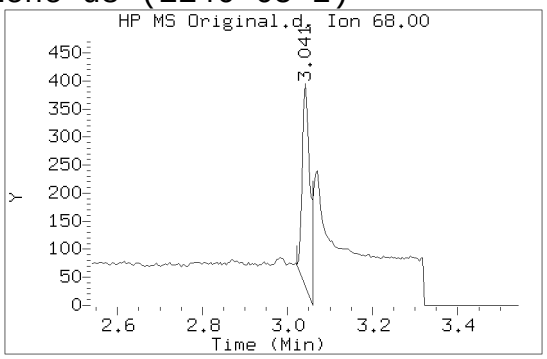
Data File : \\NAHSTWS005\Target\chem\SV6.i\240419.b\07.D
Inj Date : 19-APR-2024 14:23
InstruID : SV6.i
LabSampID : HS24040786-01

Naphthalene-d8 (1146-65-2)

Reason Code:

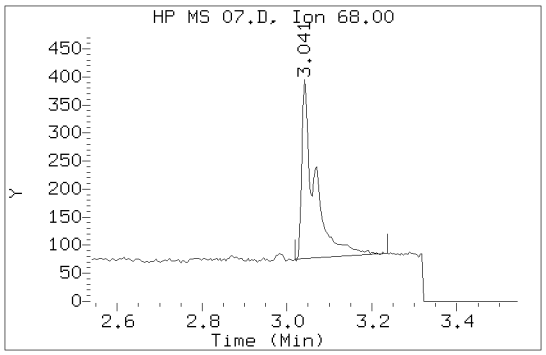
BEFORE

MASS
68
AREA
461
HEIGHT
359
19-Apr-2024
14:39
ALSHS
Server



AFTER

MASS
68
AREA
668
HEIGHT
318
19-Apr-2024
14:53

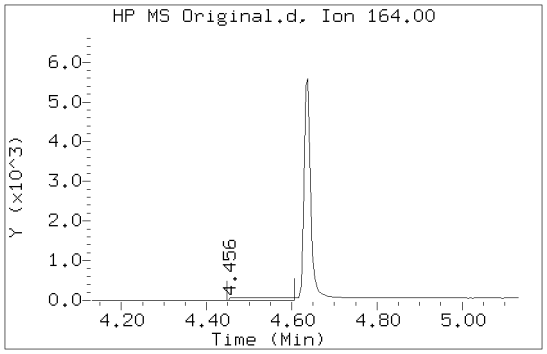


Acenaphthene-d10 (15067-26-2)

Reason Code:

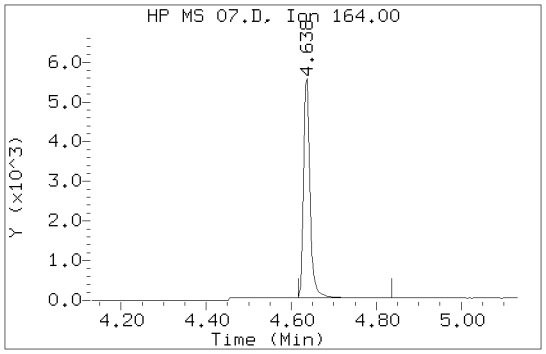
BEFORE

MASS
164
AREA
545
HEIGHT
63
19-Apr-2024
14:39
ALSHS
Server



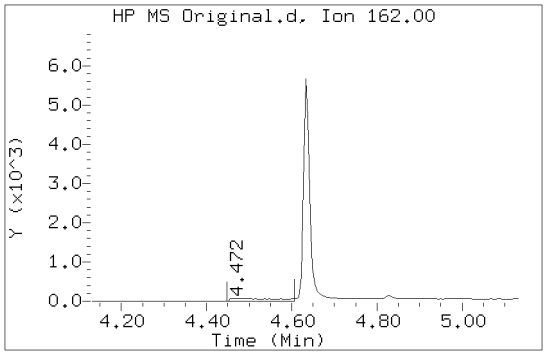
AFTER

MASS
164
AREA
5930
HEIGHT
5515
19-Apr-2024
14:53



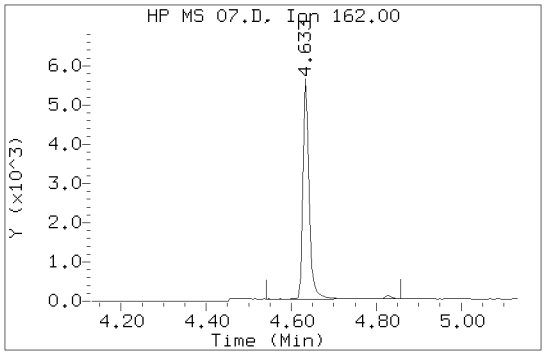
BEFORE

MASS
162
AREA
529
HEIGHT
63
19-Apr-2024
14:39
ALSHS
Server



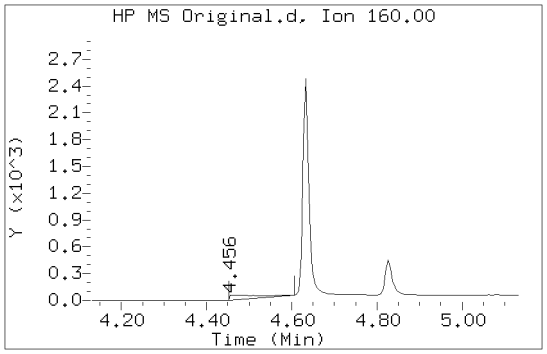
AFTER

MASS
162
AREA
5790
HEIGHT
5609
19-Apr-2024
14:53



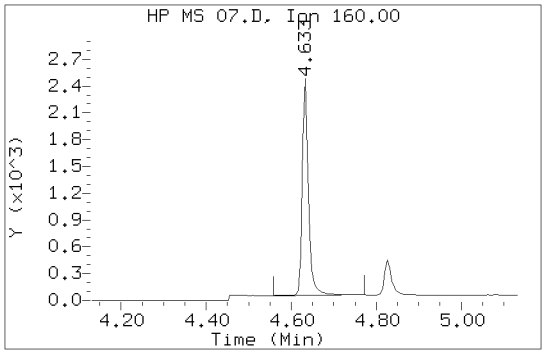
BEFORE

MASS
160
AREA
227
HEIGHT
56
19-Apr-2024
14:39
ALSHS
Server



AFTER

MASS
160
AREA
2478
HEIGHT
2425
19-Apr-2024
14:53



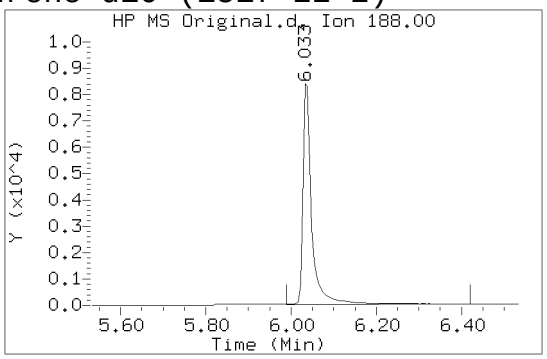
Data File : \\NAHSTWS005\Target\chem\SV6.i\240419.b\07.D
Inj Date : 19-APR-2024 14:23
InstruID : SV6.i
LabSampID : HS24040786-01

Phenanthrene-d10 (1517-22-2)

Reason Code:

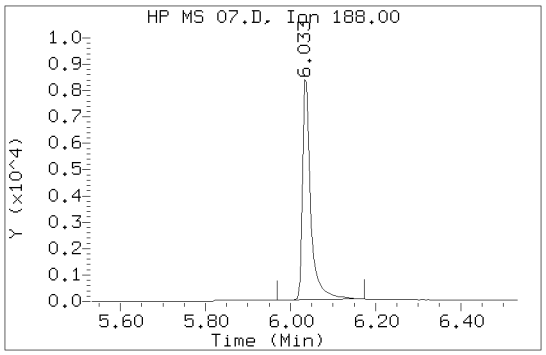
BEFORE

MASS
188
AREA
12299
HEIGHT
8390
19-Apr-2024
14:39
ALSHS
Server



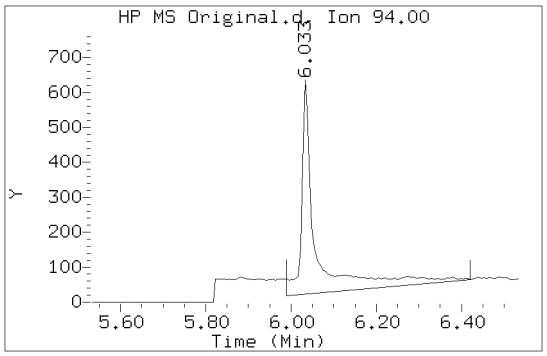
AFTER

MASS
188
AREA
11449
HEIGHT
8348
19-Apr-2024
14:53



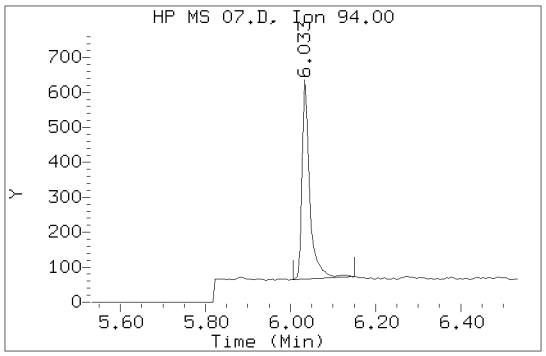
BEFORE

MASS
94
AREA
1425
HEIGHT
612
19-Apr-2024
14:39
ALSHS
Server



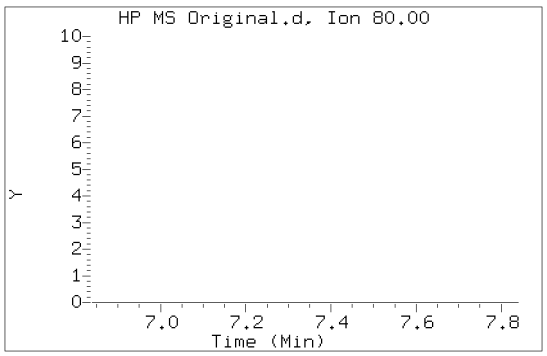
AFTER

MASS
94
AREA
723
HEIGHT
569
19-Apr-2024
14:53



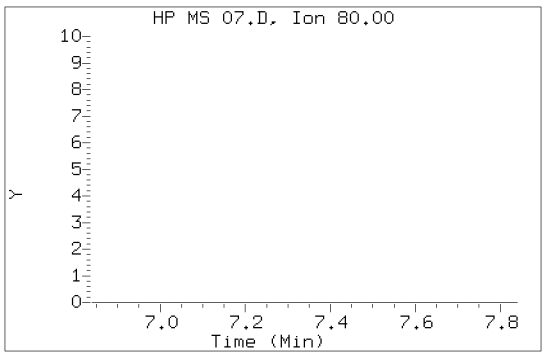
BEFORE

MASS
80
AREA
0
HEIGHT
0
19-Apr-2024
14:39
ALSHS
Server



AFTER

MASS
80
AREA
0
HEIGHT
0
19-Apr-2024
14:53

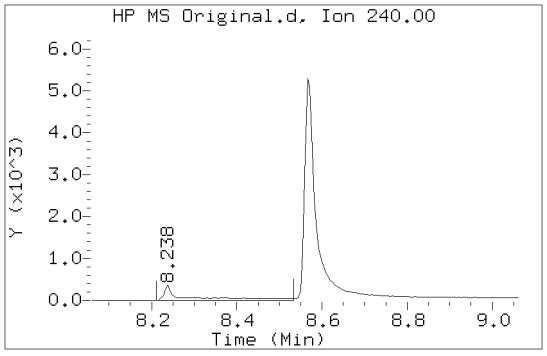


Chrysene-d12 (1719-03-5)

Reason Code:

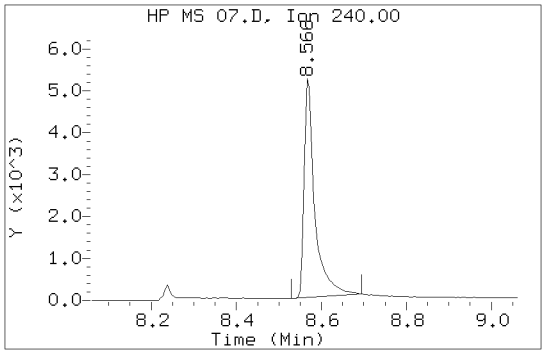
BEFORE

MASS
240
AREA
1304
HEIGHT
365
19-Apr-2024
14:39
ALSHS
Server



AFTER

MASS
240
AREA
9029
HEIGHT
5214
19-Apr-2024
14:53



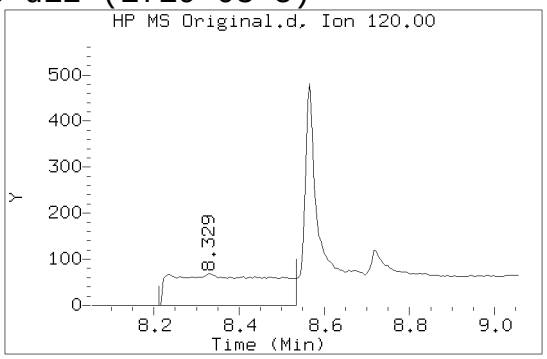
Data File : \\NAHSTWS005\Target\chem\SV6.i\240419.b\07.D
Inj Date : 19-APR-2024 14:23
InstruID : SV6.i
LabSampID : HS24040786-01

Chrysene-d12 (1719-03-5)

Reason Code:

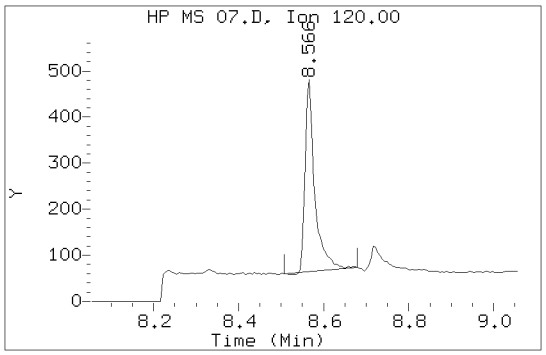
BEFORE

MASS
120
AREA
1160
HEIGHT
69
19-Apr-2024
14:39
ALSHS
Server



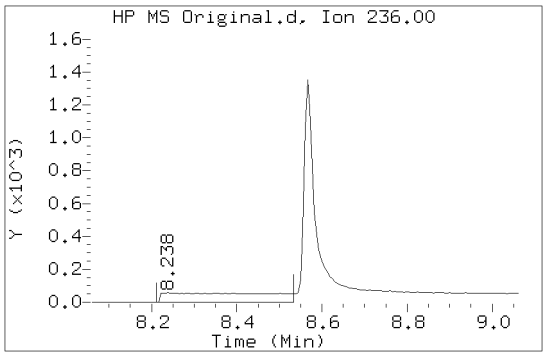
AFTER

MASS
120
AREA
651
HEIGHT
416
19-Apr-2024
14:53



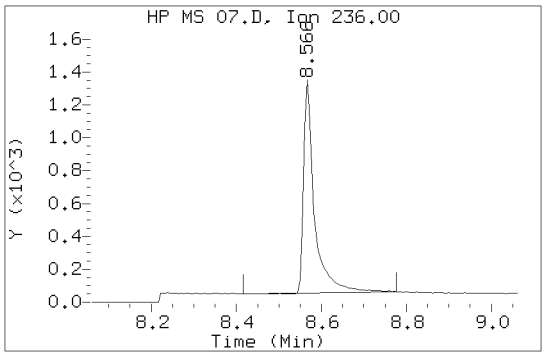
BEFORE

MASS
236
AREA
995
HEIGHT
57
19-Apr-2024
14:39
ALSHS
Server



AFTER

MASS
236
AREA
2280
HEIGHT
1295
19-Apr-2024
14:53

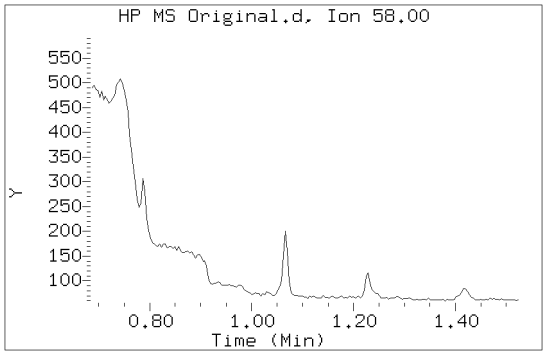


1,4-Dioxane ()

Reason Code:

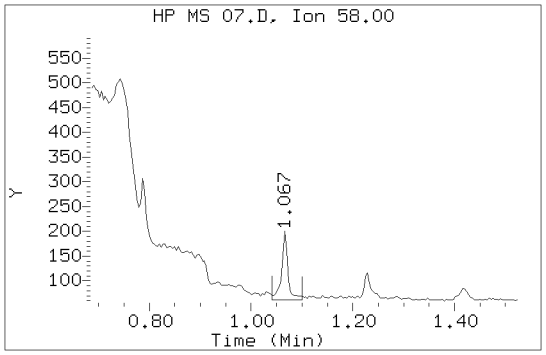
BEFORE

MASS
58
AREA
0
HEIGHT
0
19-Apr-2024
14:39
ALSHS
Server



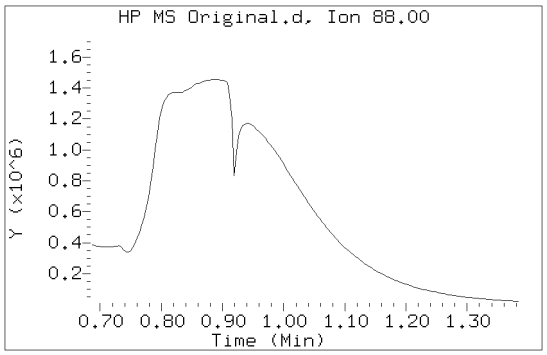
AFTER

MASS
58
AREA
121
HEIGHT
139
19-Apr-2024
14:53



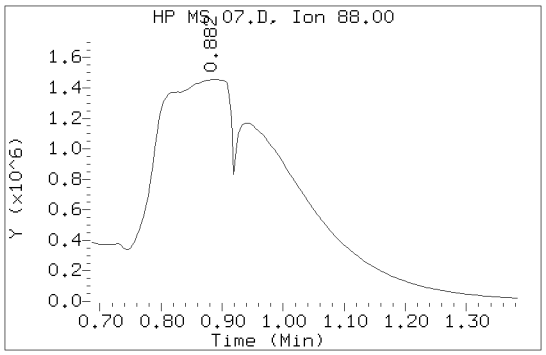
BEFORE

MASS
88
AREA
0
HEIGHT
0
19-Apr-2024
14:39
ALSHS
Server



AFTER

MASS
88
AREA
0
HEIGHT
0
19-Apr-2024
14:53



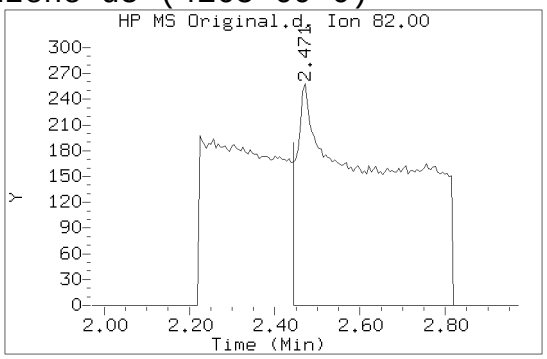
Data File : \\NAHSTWS005\Target\chem\SV6.i\240419.b\07.D
Inj Date : 19-APR-2024 14:23
InstruID : SV6.i
LabSampID : HS24040786-01

Nitrobenzene-d5 (4165-60-0)

Reason Code:

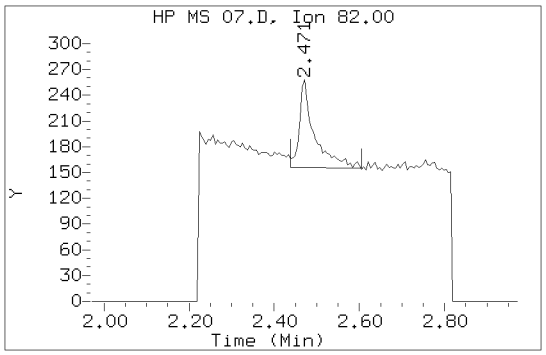
BEFORE

MASS
82
AREA
3771
HEIGHT
258
19-Apr-2024
14:39
ALSHS
Server



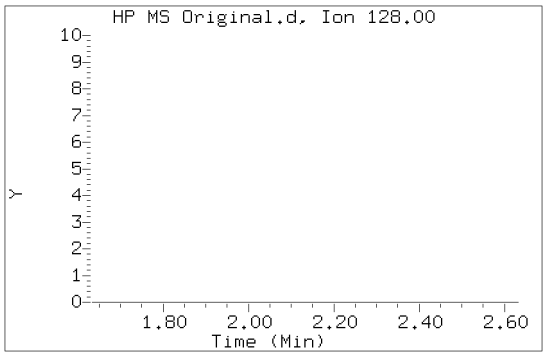
AFTER

MASS
82
AREA
254
HEIGHT
102
19-Apr-2024
14:53



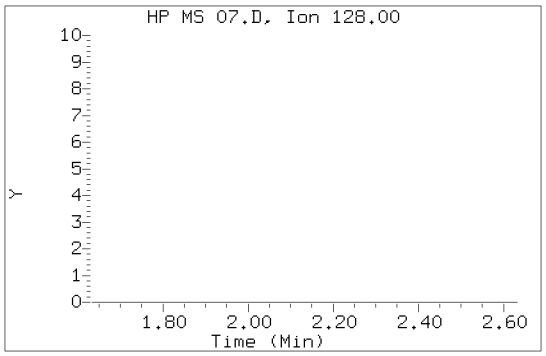
BEFORE

MASS
128
AREA
0
HEIGHT
0
19-Apr-2024
14:39
ALSHS
Server



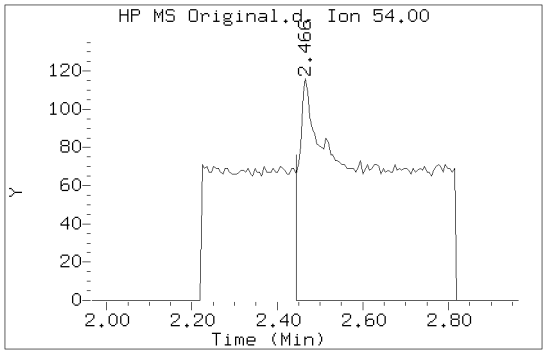
AFTER

MASS
128
AREA
0
HEIGHT
0
19-Apr-2024
14:53



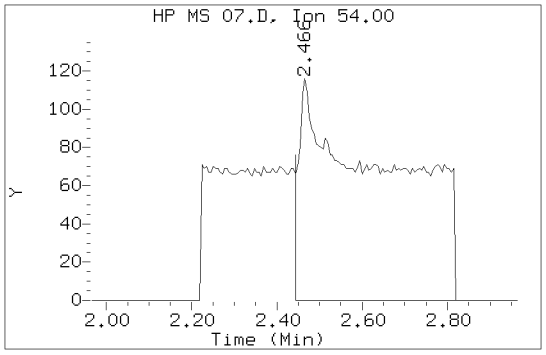
BEFORE

MASS
54
AREA
1648
HEIGHT
116
19-Apr-2024
14:39
ALSHS
Server



AFTER

MASS
54
AREA
1648
HEIGHT
116
19-Apr-2024
14:53

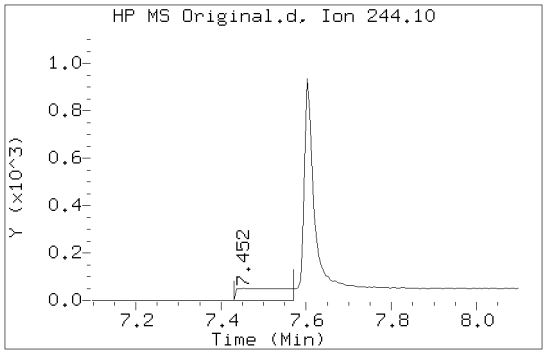


4-Terphenyl-d14 (1718-51-0)

Reason Code:

BEFORE

MASS
244.1
AREA
415
HEIGHT
51
19-Apr-2024
14:39
ALSHS
Server



AFTER

MASS
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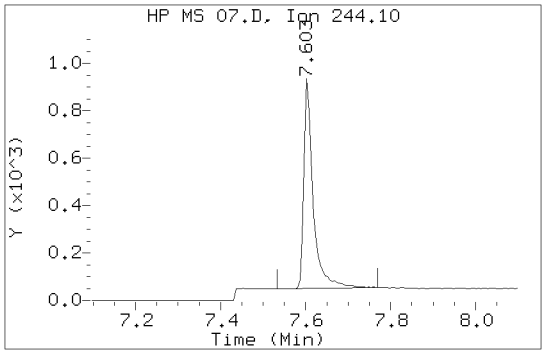
AREA
1328
HEIGHT
883
19-Apr-2024
14:53



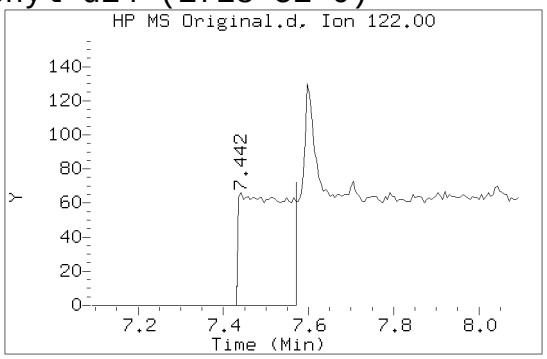
Data File : \\NAHSTWS005\Target\chem\SV6.i\240419.b\07.D
Inj Date : 19-APR-2024 14:23
InstruID : SV6.i
LabSampID : HS24040786-01

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

Reason Code:

BEFORE

MASS
122
AREA
521
HEIGHT
66
19-Apr-2024
14:39
ALSHS
Server



AFTER

MASS
122
AREA
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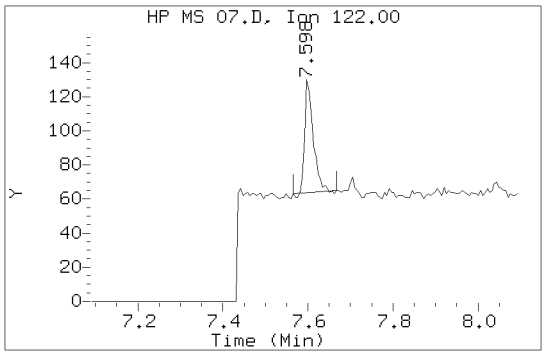
HEIGHT
66
19-Apr-2024
14:53



BEFORE

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AREA
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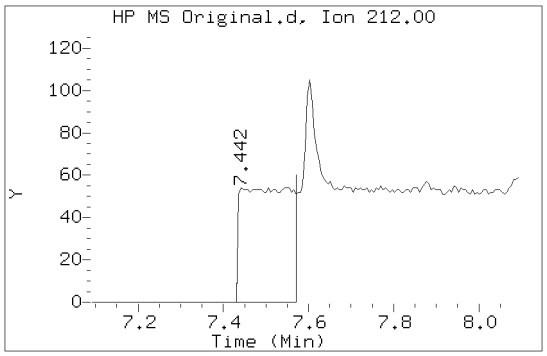
HEIGHT
54
19-Apr-2024
14:39
ALSHS
Server



AFTER

MASS
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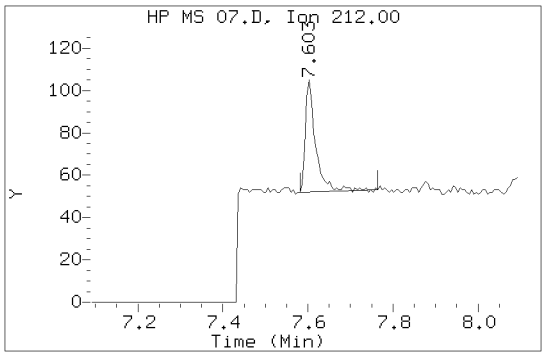
AREA
87
HEIGHT
52
19-Apr-2024
14:53



2-Fluorobiphenyl (321-60-8)

Reason Code:

BEFORE

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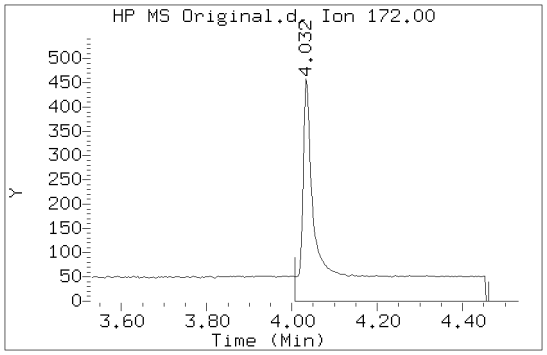
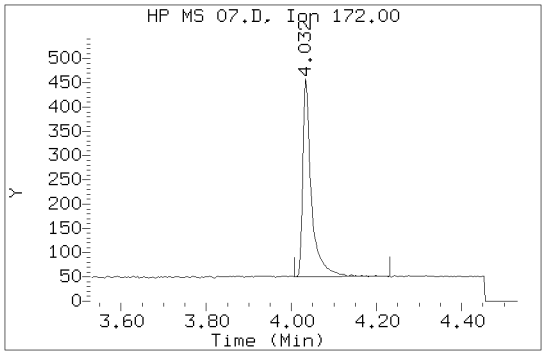
AREA
1945
HEIGHT
458
19-Apr-2024
14:39
ALSHS
Server



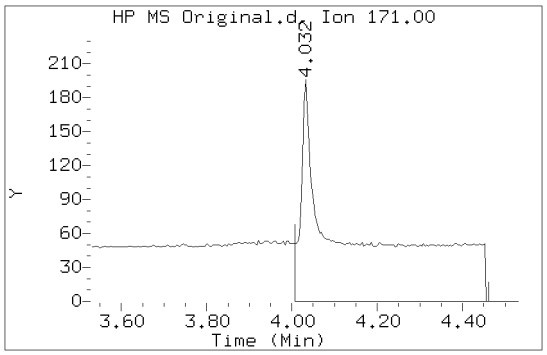
AFTER

MASS
172
AREA
571
HEIGHT
407
19-Apr-2024
14:53



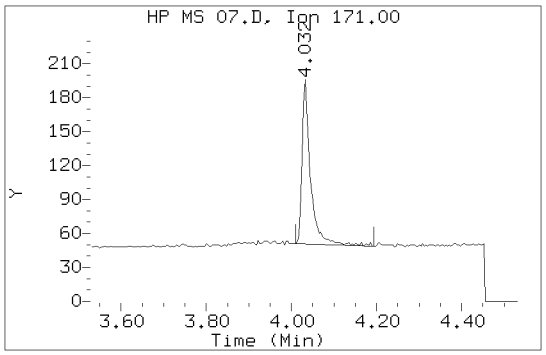
BEFORE

MASS
171
AREA
1548
HEIGHT
196
19-Apr-2024
14:39
ALSHS
Server



AFTER

MASS
171
AREA
196
HEIGHT
145
19-Apr-2024
14:53



HS24040786-MSVOA-SW8260

ALS WO# HS24040786

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

05/22/2024

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 Monthly Effluent Samples
Workorder: HS24040786

Volatiles by EPA Volatiles Organics by Method 8260C

LH18/24-SP650_041024	Collected	Received	Matrix	Basis
HS24040786-01	04/10/24 13:00	04/11/24 09:30	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	04/16/24 21:11	VOA11_464219	F041628.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	04/16/24 21:11	VOA11_464219	F041628.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	04/16/24 21:11	VOA11_464219	F041628.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
Workorder: HS24040786

Volatiles by EPA Volatiles Organics by Method 8260C

LH18/24-SP650_041024	Collected	Received	Matrix	Basis
HS24040786-01	04/10/24 13:00	04/11/24 09:30	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	04/16/24 21:11	VOA11_464219	F041628.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
cis-1,2-Dichloroethene	ug/L	1.6		0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Trichloroethene	ug/L	0.37	J	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	04/16/24 21:11	VOA11_464219	F041628.D

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.

Project: Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder: HS24040786

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24040786-03	04/10/24 13:00	04/11/24 09:30	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	04/17/24 02:21	VOA11_464254	G041607.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	04/17/24 02:21	VOA11_464254	G041607.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	04/17/24 02:21	VOA11_464254	G041607.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24040786	

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24040786-03	04/10/24 13:00	04/11/24 09:30	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	04/17/24 02:21	VOA11_464254	G041607.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Trichlorofluoromethane	ug/L	1.7		0.30	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	04/17/24 02:21	VOA11_464254	G041607.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

05/22/2024

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 Monthly Effluent Samples
Workorder: HS24040786

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA11-464219

LH18/24-SP650_041024

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24040786-01	Water	04/16/24 21:11	%REC	1
Instrument ID	VOA11				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041628.D	54	50	108		81-118
4-Bromofluorobenzene	F041628.D	51	50	101		85-114
Dibromofluoromethane	F041628.D	52	50	105		80-119
Toluene-d8	F041628.D	57	50	113		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24040905-04MS	Aqueous	04/16/24 22:39	%REC	1
Instrument ID	VOA11				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041632.D	44.95	50	89.9		81-118
4-Bromofluorobenzene	F041632.D	51.69	50	103		85-114
Dibromofluoromethane	F041632.D	46.89	50	93.8		80-119
Toluene-d8	F041632.D	55.48	50	111		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24040905-04MSD	Aqueous	04/16/24 23:02	%REC	1
Instrument ID	VOA11				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041633.D	42.71	50	85.4		81-118
4-Bromofluorobenzene	F041633.D	50.53	50	101		85-114
Dibromofluoromethane	F041633.D	45.91	50	91.8		80-119
Toluene-d8	F041633.D	55.23	50	110		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
Workorder: HS24040786

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA11-464219

VBLKW-240416

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID: VBLKW-240416 Instrument ID: VOA11	Aqueous	04/16/24 17:30	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041618.D	48.31	50	96.6		81-118
4-Bromofluorobenzene	F041618.D	49.62	50	99.2		85-114
Dibromofluoromethane	F041618.D	46.56	50	93.1		80-119
Toluene-d8	F041618.D	50.62	50	101		89-112

VLCSDW-240416

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID: VLCSDW-240416 Instrument ID: VOA11	Aqueous	04/16/24 16:46	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041616.D	44.53	50	89.1		81-118
4-Bromofluorobenzene	F041616.D	49.38	50	98.8		85-114
Dibromofluoromethane	F041616.D	45.96	50	91.9		80-119
Toluene-d8	F041616.D	46.04	50	92.1		89-112

VLCSW-240416

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID: VLCSW-240416 Instrument ID: VOA11	Aqueous	04/16/24 16:23	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041615.D	43.24	50	86.5		81-118
4-Bromofluorobenzene	F041615.D	46.3	50	92.6		85-114
Dibromofluoromethane	F041615.D	46.24	50	92.5		80-119
Toluene-d8	F041615.D	51.48	50	103		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24040786	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA11-464219

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	04/16/24 16:01	%REC	1
Instrument ID	VOA11				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F041614.D	50.35	50	101		80-120
4-Bromofluorobenzene	F041614.D	54.62	50	109		80-120
Dibromofluoromethane	F041614.D	51.55	50	103		80-120
Toluene-d8	F041614.D	58.87	50	118		80-120

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
Workorder: HS24040786

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA11-464254

Trip Blank

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24040786-03	Water	04/17/24 02:21	%REC	1
Instrument ID	VOA11				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	G041607.D	43	50	86.7		81-118
4-Bromofluorobenzene	G041607.D	59	50	118		85-114
Dibromofluoromethane	G041607.D	42	50	84.6		80-119
Toluene-d8	G041607.D	51	50	101		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24040918-14MS	Aqueous	04/17/24 09:46	%REC	1
Instrument ID	VOA11				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	G041627.D	42.81	50	85.6		81-118
4-Bromofluorobenzene	G041627.D	50.04	50	100		85-114
Dibromofluoromethane	G041627.D	46.08	50	92.2		80-119
Toluene-d8	G041627.D	54.96	50	110		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24040918-14MSD	Aqueous	04/17/24 10:08	%REC	1
Instrument ID	VOA11				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	G041628.D	42.61	50	85.2		81-118
4-Bromofluorobenzene	G041628.D	51.69	50	103		85-114
Dibromofluoromethane	G041628.D	45.09	50	90.2		80-119
Toluene-d8	G041628.D	52.91	50	106		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Monthly Effluent Samples
Workorder: HS24040786

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA11-464254

VBLKW-240416

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID VBLKW-240416 Instrument ID VOA11	Aqueous	04/17/24 01:59	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	G041606.D	43.77	50	87.5		81-118
4-Bromofluorobenzene	G041606.D	47.7	50	95.4		85-114
Dibromofluoromethane	G041606.D	46.04	50	92.1		80-119
Toluene-d8	G041606.D	44.62	50	89.2		89-112

VLCSDW-240416

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID VLCSDW-240416 Instrument ID VOA11	Aqueous	04/17/24 01:14	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	G041604.D	42.88	50	85.8		81-118
4-Bromofluorobenzene	G041604.D	54.43	50	109		85-114
Dibromofluoromethane	G041604.D	44.27	50	88.5		80-119
Toluene-d8	G041604.D	51.25	50	102		89-112

VLCSW-240416

	Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID VLCSW-240416 Instrument ID VOA11	Aqueous	04/17/24 00:52	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	G041603.D	41.09	50	82.2		81-118
4-Bromofluorobenzene	G041603.D	47.06	50	94.1		85-114
Dibromofluoromethane	G041603.D	43.72	50	87.4		80-119
Toluene-d8	G041603.D	52.26	50	105		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24040786	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA11-464254

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	04/17/24 00:08	%REC	1
Instrument ID	VOA11				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	G041602.D	44.34	50	88.7		80-120
4-Bromofluorobenzene	G041602.D	54.79	50	110		80-120
Dibromofluoromethane	G041602.D	45.81	50	91.6		80-120
Toluene-d8	G041602.D	47.51	50	95.0		80-120

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

05/22/2024

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 Monthly Effluent Samples

Workorder: **HS24040786**

SAMPLENUM: HS24040905-04MS

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS24040905-04)		HS24040905-04MS		HS24040905-04MSD	
Spike Matrix: Aqueous	Result Units: ug/L	Run Date: 04/16/24		Run Date: 04/16/24	
Instrument ID: VOA11		Run Time: 22:39		Run Time: 23:02	
		Data File: F041632.D		Data File: F041633.D	

Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	1	0	19.9068	20	100		19.8417	20	99		20	0.328	
1,1,1-Trichloroethane	74-131	1	0	22.6602	20	113		20.9636	20	105		20	7.78	
1,1,2,2-Tetrachloroethane	71-121	1	0	19.5153	20	98		18.9882	20	95		20	2.74	
1,1,2-Trichloroethane	80-119	1	0	21.9019	20	110		21.6390	20	108		20	1.21	
1,1-Dichloroethane	77-125	1	0	21.2219	20	106		19.2073	20	96		20	9.97	
1,1-Dichloroethene	71-131	1	0	22.4642	20	112		18.5372	20	93		20	19.2	
1,1-Dichloropropene	78-125	1	0	22.9589	20	115		22.3382	20	112		20	2.74	
1,2,3-Trichlorobenzene	69-129	1	0	22.4646	20	112		21.1545	20	106		20	6.01	
1,2,3-Trichloropropane	73-122	1	0	18.4719	20	92		17.7313	20	89		20	4.09	
1,2,4-Trichlorobenzene	69-130	1	0	23.7687	20	119		23.7208	20	119		20	0.202	
1,2,4-Trimethylbenzene	76-124	1	0	20.6769	20	103		20.8122	20	104		20	0.652	
1,2-Dibromo-3-chloropropane	62-128	1	0	17.7278	20	89		19.1342	20	96		20	7.63	
1,2-Dibromoethane	77-121	1	0	19.9994	20	100		19.0868	20	95		20	4.67	
1,2-Dichlorobenzene	80-119	1	0	21.1220	20	106		21.1941	20	106		20	0.341	
1,2-Dichloroethane	73-128	1	0	20.5146	20	103		20.5529	20	103		20	0.186	
1,2-Dichloropropane	78-122	1	0	22.5831	20	113		20.1461	20	101		20	11.4	
1,3,5-Trimethylbenzene	75-124	1	0	20.3387	20	102		19.0512	20	95		20	6.54	
1,3-Dichlorobenzene	80-119	1	0.4087	21.5048	20	105		21.7607	20	107		20	1.18	
1,3-Dichloropropane	80-119	1	0	21.9407	20	110		20.5771	20	103		20	6.41	
1,4-Dichlorobenzene	79-118	1	0.7739	19.7163	20	95		19.9165	20	96		20	1.01	
2,2-Dichloropropane	60-139	1	0	18.3090	20	92		17.9595	20	90		20	1.93	
2-Butanone	56-143	1	0	37.6412	40	94		36.3684	40	91		20	3.44	
2-Chlorotoluene	79-122	1	0	20.9209	20	105		19.0910	20	96		20	9.15	
2-Hexanone	57-139	1	0	40.7483	40	102		45.7856	40	114		20	11.6	
4-Chlorotoluene	78-122	1	0	20.3241	20	102		18.9845	20	95		20	6.82	
4-Isopropyltoluene	77-127	1	0	20.6988	20	103		20.8216	20	104		20	0.592	
4-Methyl-2-pentanone	67-130	1	0	46.1794	40	115		52.0641	40	130		20	12	
Acetone	39-160	1	0	41.7144	40	104		40.7058	40	102		20	2.45	
Benzene	79-120	1	0	20.6902	20	103		21.5345	20	108		20	4	
Bromobenzene	80-120	1	0	19.8816	20	99		19.0050	20	95		20	4.51	
Bromochloromethane	78-123	1	0	20.0114	20	100		19.4348	20	97		20	2.92	
Bromodichloromethane	79-125	1	0	20.9929	20	105		19.4460	20	97		20	7.65	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder: HS24040786

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM: HS24040905-04MS

BatchQC (HS24040905-04)				HS24040905-04MS				HS24040905-04MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 04/16/24				Run Date: 04/16/24						
Instrument ID: VOA11				Run Time: 22:39				Run Time: 23:02						
				Data File: F041632.D				Data File: F041633.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Bromoform	66-130	1	0	16.5451	20	83		17.8482	20	89		20	7.58	
Bromomethane	53-141	1	0	19.5033	20	98		15.8380	20	79		20	20.7	
Carbon disulfide	64-133	1	0	41.1139	40	103		34.1183	40	85		20	18.6	
Carbon tetrachloride	72-136	1	0	21.0556	20	105		20.7067	20	104		20	1.67	
Chlorobenzene	82-118	1	15.54	34.2901	20	94		33.7337	20	91		20	1.64	
Chloroethane	60-138	1	0	24.4774	20	122		19.9996	20	100		20	20.1	
Chloroform	79-124	1	0	21.8936	20	109		19.6020	20	98		20	11	
Chloromethane	50-139	1	0	18.3990	20	92		16.2658	20	81		20	12.3	
cis-1,2-Dichloroethene	78-123	1	0	21.8286	20	109		21.6006	20	108		20	1.05	
cis-1,3-Dichloropropene	75-124	1	0	18.1876	20	91		18.3910	20	92		20	1.11	
Dibromochloromethane	74-126	1	0	18.0246	20	90		16.9999	20	85		20	5.85	
Dibromomethane	79-123	1	0	21.5554	20	108		20.3117	20	102		20	5.94	
Dichlorodifluoromethane	32-152	1	0	22.2288	20	111		19.1809	20	96		20	14.7	
Ethylbenzene	79-121	1	0	22.1746	20	111		22.0334	20	110		20	0.639	
Hexachlorobutadiene	66-134	1	0	20.0038	20	100		19.4347	20	97		20	2.89	
Isopropylbenzene	72-131	1	5.873	26.6874	20	104		27.0416	20	106		20	1.32	
m,p-Xylene	80-121	1	0	40.3831	40	101		40.1570	40	100		20	0.561	
Methylene chloride	74-124	1	0	18.8006	20	94		16.3270	20	82		20	14.1	
Naphthalene	61-128	1	0	22.2893	20	111		24.2689	20	121		20	8.5	
n-Butylbenzene	75-128	1	0	21.3356	20	107		21.1286	20	106		20	0.975	
n-Propylbenzene	76-126	1	1.639	21.4562	20	99		19.5064	20	89		20	9.52	
o-Xylene	78-122	1	0	21.6129	20	108		21.3154	20	107		20	1.39	
sec-Butylbenzene	77-126	1	13.93	33.9045	20	100		33.6070	20	98		20	0.881	
Styrene	78-123	1	0	20.0870	20	100		20.0106	20	100		20	0.381	
tert-Butylbenzene	78-124	1	10.4	29.8486	20	97		28.4821	20	90		20	4.69	
Tetrachloroethene	74-129	1	0	22.2742	20	111		19.6474	20	98		20	12.5	
Toluene	80-121	1	0	22.9683	20	115		22.3644	20	112		20	2.66	
trans-1,2-Dichloroethene	75-124	1	0	20.9763	20	105		17.7076	20	88		20	16.9	
trans-1,3-Dichloropropene	73-127	1	0	18.5267	20	93		18.5796	20	93		20	0.285	
Trichloroethene	79-123	1	0	20.0229	20	100		21.4262	20	107		20	6.77	
Trichlorofluoromethane	65-141	1	0	21.7291	20	109		18.3349	20	92		20	16.9	
Vinyl chloride	58-137	1	0	21.8173	20	109		18.4992	20	92		20	16.5	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24040786	

SAMPLENUM HS24040905-04MS

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS24040905-04)				HS24040905-04MS		HS24040905-04MSD	
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	04/16/24	Run Date	04/16/24
Instrument ID	VOA11			Run Time	22:39	Run Time	23:02
				Data File	F041632.D	Data File	F041633.D

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder: **HS24040786**

SAMPLENUM: HS24040918-14MS

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS24040918-14)			HS24040918-14MS		HS24040918-14MSD	
Spike Matrix: Aqueous	Result Units: ug/L		Run Date: 04/17/24		Run Date: 04/17/24	
Instrument ID: VOA11			Run Time: 09:46		Run Time: 10:08	
			Data File: G041627.D		Data File: G041628.D	

Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	1	0	18.3090	20	92		18.6348	20	93		20	1.76	
1,1,1-Trichloroethane	74-131	1	0	19.3579	20	97		18.4394	20	92		20	4.86	
1,1,2,2-Tetrachloroethane	71-121	1	0	17.3550	20	87		18.4107	20	92		20	5.9	
1,1,2-Trichloroethane	80-119	1	0	20.6498	20	103		19.2023	20	96		20	7.26	
1,1-Dichloroethane	77-125	1	0	16.9930	20	85		18.0802	20	90		20	6.2	
1,1-Dichloroethene	71-131	1	0	17.0384	20	85		17.5027	20	88		20	2.69	
1,1-Dichloropropene	78-125	1	0	20.0496	20	100		18.3943	20	92		20	8.61	
1,2,3-Trichlorobenzene	69-129	1	0	16.1819	20	81		15.8709	20	79		20	1.94	
1,2,3-Trichloropropane	73-122	1	0	17.0798	20	85		17.9085	20	90		20	4.74	
1,2,4-Trichlorobenzene	69-130	1	0	16.3168	20	82		15.8137	20	79		20	3.13	
1,2,4-Trimethylbenzene	76-124	1	0	18.0967	20	90		18.6319	20	93		20	2.91	
1,2-Dibromo-3-chloropropane	62-128	1	0	15.2967	20	76		15.1236	20	76		20	1.14	
1,2-Dibromoethane	77-121	1	0	18.8343	20	94		18.0980	20	90		20	3.99	
1,2-Dichlorobenzene	80-119	1	0	18.9313	20	95		18.4118	20	92		20	2.78	
1,2-Dichloroethane	73-128	1	0	18.2843	20	91		17.8070	20	89		20	2.65	
1,2-Dichloropropane	78-122	1	0	19.6972	20	98		18.5365	20	93		20	6.07	
1,3,5-Trimethylbenzene	75-124	1	0	17.4902	20	88		18.0059	20	90		20	2.91	
1,3-Dichlorobenzene	80-119	1	0	18.8774	20	94		19.3247	20	97		20	2.34	
1,3-Dichloropropane	80-119	1	0	20.0053	20	100		19.3384	20	97		20	3.39	
1,4-Dichlorobenzene	79-118	1	0	17.7414	20	89		17.4283	20	87		20	1.78	
2,2-Dichloropropane	60-139	1	0	13.9987	20	70		13.6289	20	68		20	2.68	
2-Butanone	56-143	1	0	35.6573	40	89		36.3406	40	91		20	1.9	
2-Chlorotoluene	79-122	1	0	18.4206	20	92		18.9223	20	95		20	2.69	
2-Hexanone	57-139	1	0	35.5556	40	89		36.9046	40	92		20	3.72	
4-Chlorotoluene	78-122	1	0	18.0474	20	90		18.4946	20	92		20	2.45	
4-Isopropyltoluene	77-127	1	0	17.8747	20	89		18.1325	20	91		20	1.43	
4-Methyl-2-pentanone	67-130	1	0	35.4673	40	89		36.8720	40	92		20	3.88	
Acetone	39-160	1	0	43.0753	40	108		46.6764	40	117		20	8.02	
Benzene	79-120	1	0	20.1394	20	101		18.9358	20	95		20	6.16	
Bromobenzene	80-120	1	0	17.7306	20	89		18.3902	20	92		20	3.65	
Bromochloromethane	78-123	1	0	18.4492	20	92		17.7012	20	88		20	4.14	
Bromodichloromethane	79-125	1	0	18.2373	20	91		17.2891	20	86		20	5.34	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder: **HS24040786**

SAMPLENUM: HS24040918-14MS

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS24040918-14)			HS24040918-14MS		HS24040918-14MSD	
Spike Matrix: Aqueous	Result Units: ug/L		Run Date: 04/17/24		Run Date: 04/17/24	
Instrument ID: VOA11			Run Time: 09:46		Run Time: 10:08	
			Data File: G041627.D		Data File: G041628.D	

Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Bromoform	66-130	1	0	15.3444	20	77		15.9981	20	80		20	4.17	
Bromomethane	53-141	1	0	16.7142	20	84		14.0929	20	70		20	17	
Carbon disulfide	64-133	1	0	30.0936	40	75		31.7988	40	80		20	5.51	
Carbon tetrachloride	72-136	1	0	19.4534	20	97		17.5605	20	88		20	10.2	
Chlorobenzene	82-118	1	0	17.7435	20	89		18.1108	20	91		20	2.05	
Chloroethane	60-138	1	0	16.6602	20	83		15.9657	20	80		20	4.26	
Chloroform	79-124	1	0	18.6715	20	93		17.8275	20	89		20	4.62	
Chloromethane	50-139	1	0	16.4993	20	82		14.7571	20	74		20	11.1	
cis-1,2-Dichloroethene	78-123	1	0	19.6711	20	98		19.0351	20	95		20	3.29	
cis-1,3-Dichloropropene	75-124	1	0	14.7421	20	74		14.4779	20	72		20	1.81	
Dibromochloromethane	74-126	1	0	16.7196	20	84		15.8054	20	79		20	5.62	
Dibromomethane	79-123	1	0	18.5269	20	93		17.9865	20	90		20	2.96	
Dichlorodifluoromethane	32-152	1	0	16.8074	20	84		15.0720	20	75		20	10.9	
Ethylbenzene	79-121	1	0	19.6024	20	98		20.0028	20	100		20	2.02	
Hexachlorobutadiene	66-134	1	0	15.8092	20	79		15.2071	20	76		20	3.88	
Isopropylbenzene	72-131	1	0	17.7367	20	89		18.4566	20	92		20	3.98	
m,p-Xylene	80-121	1	0	37.3903	40	94		37.1303	40	93		20	0.698	
Methylene chloride	74-124	1	0	15.1563	20	76		16.9129	20	85		20	11	
Naphthalene	61-128	1	0	15.0499	20	75		15.4922	20	78		20	2.9	
n-Butylbenzene	75-128	1	0	17.1195	20	86		16.4763	20	82		20	3.83	
n-Propylbenzene	76-126	1	0	18.3769	20	92		18.9215	20	95		20	2.92	
o-Xylene	78-122	1	0	18.2691	20	91		18.4502	20	92		20	0.986	
sec-Butylbenzene	77-126	1	0	18.3276	20	92		18.2793	20	91		20	0.264	
Styrene	78-123	1	0	17.9516	20	90		18.3997	20	92		20	2.47	
tert-Butylbenzene	78-124	1	0	18.5524	20	93		18.2256	20	91		20	1.78	
Tetrachloroethene	74-129	1	0	19.1847	20	96		17.7354	20	89		20	7.85	
Toluene	80-121	1	0	21.0429	20	105		19.2776	20	96		20	8.76	
trans-1,2-Dichloroethene	75-124	1	0	16.4134	20	82		17.9931	20	90		20	9.18	
trans-1,3-Dichloropropene	73-127	1	0	15.2255	20	76		15.0996	20	76		20	0.831	
Trichloroethene	79-123	1	0	19.3078	20	96		18.0478	20	90		20	6.75	
Trichlorofluoromethane	65-141	1	0	16.9972	20	85		15.9196	20	80		20	6.55	
Vinyl chloride	58-137	1	0	16.9206	20	85		15.6986	20	78		20	7.49	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24040786	

SAMPLENUM HS24040918-14MS

Volatiles by EPA Volatiles Organics by Method 8260C

BatchQC (HS24040918-14)				HS24040918-14MS		HS24040918-14MSD		
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	04/17/24	Run Date	04/17/24	
Instrument ID	VOA11			Run Time	09:46	Run Time	10:08	
				Data File	G041627.D	Data File	G041628.D	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

05/22/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

SAMPLENUM VLCSW-240416

Volatiles by EPA Volatiles Organics by Method 8260C

VOA11_464219			VLCSW-240416			VLCSDW-240416					
Spike Matrix Aqueous	Result Units ug/L		Run Date 04/16/24 Run Time 16:23			Run Date 04/16/24 Run Time 16:46					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	20	20.45	102		19.19	96		20	6.38	
1,1,1-Trichloroethane	74-131	20	21.5	108		19.86	99		20	7.95	
1,1,2,2-Tetrachloroethane	71-121	20	19.33	97		18.4	92		20	4.92	
1,1,2-Trichloroethane	80-119	20	20.98	105		18.41	92		20	13	
1,1-Dichloroethane	77-125	20	20.14	101		19.05	95		20	5.54	
1,1-Dichloroethene	71-131	20	20.71	104		19.82	99		20	4.41	
1,1-Dichloropropene	78-125	20	20.07	100		18.65	93		20	7.35	
1,2,3-Trichlorobenzene	69-129	20	21.79	109		20.85	104		20	4.38	
1,2,3-Trichloropropane	73-122	20	19.66	98		19.16	96		20	2.59	
1,2,4-Trichlorobenzene	69-130	20	20.53	103		21.55	108		20	4.85	
1,2,4-Trimethylbenzene	76-124	20	18.72	94		19.03	95		20	1.65	
1,2-Dibromo-3-chloropropane	62-128	20	18.6	93		19.09	96		20	2.64	
1,2-Dibromoethane	77-121	20	20.36	102		19.09	95		20	6.43	
1,2-Dichlorobenzene	80-119	20	20.19	101		21.35	107		20	5.56	
1,2-Dichloroethane	73-128	20	19.64	98		19.53	98		20	0.521	
1,2-Dichloropropane	78-122	20	19.1	96		18.94	95		20	0.881	
1,3,5-Trimethylbenzene	75-124	20	18.73	94		18.39	92		20	1.8	
1,3-Dichlorobenzene	80-119	20	21.48	107		20.24	101		20	5.93	
1,3-Dichloropropane	80-119	20	21.08	105		18.51	92		20	13	
1,4-Dichlorobenzene	79-118	20	19.33	97		19.37	97		20	0.184	
2,2-Dichloropropane	60-139	20	18.98	95		18	90		20	5.29	
2-Butanone	56-143	40	39.68	99		38.69	97		20	2.52	
2-Chlorotoluene	79-122	20	19.65	98		19.87	99		20	1.12	
2-Hexanone	57-139	40	44.24	111		35.37	88		20	22.3	
4-Chlorotoluene	78-122	20	18.89	94		18.73	94		20	0.898	
4-Isopropyltoluene	77-127	20	19.62	98		18.39	92		20	6.44	
4-Methyl-2-pentanone	67-130	40	45.16	113		37.24	93		20	19.2	
Acetone	39-160	40	42.79	107		41.08	103		20	4.06	
Benzene	79-120	20	19.07	95		18.78	94		20	1.55	
Bromobenzene	80-120	20	20.34	102		19.14	96		20	6.08	
Bromochloromethane	78-123	20	19.3	96		19.08	95		20	1.14	
Bromodichloromethane	79-125	20	19.65	98		18.85	94		20	4.17	
Bromoform	66-130	20	19.12	96		18.03	90		20	5.85	
Bromomethane	53-141	20	19.44	97		15.8	79		20	20.7	
Carbon disulfide	64-133	40	39.92	100		37.45	94		20	6.39	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240416

VOA11_464219			VLCSW-240416			VLCSDW-240416					
Spike Matrix Aqueous	Result Units ug/L		Run Date 04/16/24 Run Time 16:23			Run Date 04/16/24 Run Time 16:46					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Carbon tetrachloride	72-136	20	19.04	95		17.92	90		20	6.05	
Chlorobenzene	82-118	20	18.94	95		17.94	90		20	5.46	
Chloroethane	60-138	20	20.44	102		18.84	94		20	8.18	
Chloroform	79-124	20	19.39	97		18.77	94		20	3.26	
Chloromethane	50-139	20	17.03	85		17.79	89		20	4.34	
cis-1,2-Dichloroethene	78-123	20	21	105		20.02	100		20	4.75	
cis-1,3-Dichloropropene	75-124	20	18.99	95		17.44	87		20	8.54	
Dibromochloromethane	74-126	20	18.55	93		17.5	88		20	5.81	
Dibromomethane	79-123	20	20.16	101		19.49	98		20	3.34	
Dichlorodifluoromethane	32-152	20	18.86	94		18.1	90		20	4.14	
Ethylbenzene	79-121	20	21.35	107		19.87	99		20	7.2	
Hexachlorobutadiene	66-134	20	18.8	94		19.52	98		20	3.75	
Isopropylbenzene	72-131	20	19.47	97		19.32	97		20	0.753	
m,p-Xylene	80-121	40	38.3	96		35.58	89		20	7.34	
Methylene chloride	74-124	20	18.51	93		20.02	100		20	7.81	
Naphthalene	61-128	20	22.4	112		21.12	106		20	5.9	
n-Butylbenzene	75-128	20	19.01	95		19.61	98		20	3.12	
n-Propylbenzene	76-126	20	19.86	99		18.65	93		20	6.3	
o-Xylene	78-122	20	19.23	96		20.18	101		20	4.83	
sec-Butylbenzene	77-126	20	20	100		18.79	94		20	6.25	
Styrene	78-123	20	19.18	96		20.03	100		20	4.37	
tert-Butylbenzene	78-124	20	18.93	95		18.49	92		20	2.37	
Tetrachloroethene	74-129	20	19.79	99		16.47	82		20	18.3	
Toluene	80-121	20	21.14	106		17.62	88		20	18.1	
trans-1,2-Dichloroethene	75-124	20	19.81	99		19.88	99		20	0.38	
trans-1,3-Dichloropropene	73-127	20	19.27	96		17.82	89		20	7.83	
Trichloroethene	79-123	20	18.55	93		18.38	92		20	0.964	
Trichlorofluoromethane	65-141	20	19.85	99		18.43	92		20	7.41	
Vinyl chloride	58-137	20	19.26	96		18.51	92		20	3.95	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM VLCSW-240416

VOA11_464254			VLCSW-240416			VLCSDW-240416					
Spike Matrix Aqueous	Result Units ug/L		Run Date 04/17/24 Run Time 00:52			Run Date 04/16/24 Run Time 16:46					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	20	19.49	98		19.19	96		20	6.38	
1,1,1-Trichloroethane	74-131	20	20.19	101		19.86	99		20	7.95	
1,1,2,2-Tetrachloroethane	71-121	20	19.91	100		18.4	92		20	4.92	
1,1,2-Trichloroethane	80-119	20	19.31	96		18.41	92		20	13	
1,1-Dichloroethane	77-125	20	19.36	97		19.05	95		20	5.54	
1,1-Dichloroethene	71-131	20	17.41	87		19.82	99		20	4.41	
1,1-Dichloropropene	78-125	20	19.38	97		18.65	93		20	7.35	
1,2,3-Trichlorobenzene	69-129	20	21.88	109		20.85	104		20	4.38	
1,2,3-Trichloropropane	73-122	20	20.74	104		19.16	96		20	2.59	
1,2,4-Trichlorobenzene	69-130	20	22.44	112		21.55	108		20	4.85	
1,2,4-Trimethylbenzene	76-124	20	20.63	103		19.03	95		20	1.65	
1,2-Dibromo-3-chloropropane	62-128	20	20.34	102		19.09	96		20	2.64	
1,2-Dibromoethane	77-121	20	19.18	96		19.09	95		20	6.43	
1,2-Dichlorobenzene	80-119	20	21.48	107		21.35	107		20	5.56	
1,2-Dichloroethane	73-128	20	19.27	96		19.53	98		20	0.521	
1,2-Dichloropropane	78-122	20	19.01	95		18.94	95		20	0.881	
1,3,5-Trimethylbenzene	75-124	20	20.32	102		18.39	92		20	1.8	
1,3-Dichlorobenzene	80-119	20	21.67	108		20.24	101		20	5.93	
1,3-Dichloropropane	80-119	20	19.69	98		18.51	92		20	13	
1,4-Dichlorobenzene	79-118	20	19.91	100		19.37	97		20	0.184	
2,2-Dichloropropane	60-139	20	18.97	95		18	90		20	5.29	
2-Butanone	56-143	40	41.84	105		38.69	97		20	2.52	
2-Chlorotoluene	79-122	20	21.18	106		19.87	99		20	1.12	
2-Hexanone	57-139	40	45.99	115		35.37	88		20	22.3	
4-Chlorotoluene	78-122	20	20.75	104		18.73	94		20	0.898	
4-Isopropyltoluene	77-127	20	20.21	101		18.39	92		20	6.44	
4-Methyl-2-pentanone	67-130	40	46.15	115		37.24	93		20	19.2	
Acetone	39-160	40	40.28	101		41.08	103		20	4.06	
Benzene	79-120	20	18.64	93		18.78	94		20	1.55	
Bromobenzene	80-120	20	20.62	103		19.14	96		20	6.08	
Bromochloromethane	78-123	20	18.51	93		19.08	95		20	1.14	
Bromodichloromethane	79-125	20	19.05	95		18.85	94		20	4.17	
Bromoform	66-130	20	17.95	90		18.03	90		20	5.85	
Bromomethane	53-141	20	16.04	80		15.8	79		20	20.7	
Carbon disulfide	64-133	40	35.3	88		37.45	94		20	6.39	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

SAMPLENUM VLCSW-240416

Volatiles by EPA Volatiles Organics by Method 8260C

VOA11_464254			VLCSW-240416			VLCSDW-240416					
Spike Matrix Aqueous	Result Units ug/L		Run Date 04/17/24 Run Time 00:52			Run Date 04/16/24 Run Time 16:46					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Carbon tetrachloride	72-136	20	18.81	94		17.92	90		20	6.05	
Chlorobenzene	82-118	20	19.27	96		17.94	90		20	5.46	
Chloroethane	60-138	20	17.9	90		18.84	94		20	8.18	
Chloroform	79-124	20	18.32	92		18.77	94		20	3.26	
Chloromethane	50-139	20	15.93	80		17.79	89		20	4.34	
cis-1,2-Dichloroethene	78-123	20	21.4	107		20.02	100		20	4.75	
cis-1,3-Dichloropropene	75-124	20	17.06	85		17.44	87		20	8.54	
Dibromochloromethane	74-126	20	17.28	86		17.5	88		20	5.81	
Dibromomethane	79-123	20	18.64	93		19.49	98		20	3.34	
Dichlorodifluoromethane	32-152	20	18.89	94		18.1	90		20	4.14	
Ethylbenzene	79-121	20	21.07	105		19.87	99		20	7.2	
Hexachlorobutadiene	66-134	20	20.34	102		19.52	98		20	3.75	
Isopropylbenzene	72-131	20	19.53	98		19.32	97		20	0.753	
m,p-Xylene	80-121	40	39.67	99		35.58	89		20	7.34	
Methylene chloride	74-124	20	17.71	88		20.02	100		20	7.81	
Naphthalene	61-128	20	21.77	109		21.12	106		20	5.9	
n-Butylbenzene	75-128	20	19.99	100		19.61	98		20	3.12	
n-Propylbenzene	76-126	20	21.06	105		18.65	93		20	6.3	
o-Xylene	78-122	20	19.41	97		20.18	101		20	4.83	
sec-Butylbenzene	77-126	20	20.68	103		18.79	94		20	6.25	
Styrene	78-123	20	19.35	97		20.03	100		20	4.37	
tert-Butylbenzene	78-124	20	20.52	103		18.49	92		20	2.37	
Tetrachloroethene	74-129	20	18.53	93		16.47	82		20	18.3	
Toluene	80-121	20	20.64	103		17.62	88		20	18.1	
trans-1,2-Dichloroethene	75-124	20	20.16	101		19.88	99		20	0.38	
trans-1,3-Dichloropropene	73-127	20	18.57	93		17.82	89		20	7.83	
Trichloroethene	79-123	20	19.19	96		18.38	92		20	0.964	
Trichlorofluoromethane	65-141	20	18.43	92		18.43	92		20	7.41	
Vinyl chloride	58-137	20	18.43	92		18.51	92		20	3.95	

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

05/22/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24040786	

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240416	Aqueous	04/16/24 17:30	R464219	VOA11

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240416	VLCSW-240416	LCS	04/16/24 16:23	R464219	VOA11	F041615.D
VLCSDW-240416	VLCSDW-240416	LCSD	04/16/24 16:46	R464219	VOA11	F041616.D
LH18/24-SP650_041024	HS24040786-01	SAMP	04/16/24 21:11	R464219	VOA11	F041628.D
BatchQC	HS24040905-04MS	MS	04/16/24 22:39	R464219	VOA11	F041632.D
BatchQC	HS24040905-04MSD	MSD	04/16/24 23:02	R464219	VOA11	F041633.D

Form 4 - Method Blank Summary

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24040786	

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240416	Aqueous	04/17/24 01:59	R464254	VOA11

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
VLCSW-240416	VLCSW-240416	LCS	04/17/24 00:52	R464254	VOA11	G041603.D
VLCSDW-240416	VLCSDW-240416	LCSD	04/17/24 01:14	R464254	VOA11	G041604.D
Trip Blank	HS24040786-03	SAMP	04/17/24 02:21	R464254	VOA11	G041607.D
BatchQC	HS24040918-14MS	MS	04/17/24 09:46	R464254	VOA11	G041627.D
BatchQC	HS24040918-14MSD	MSD	04/17/24 10:08	R464254	VOA11	G041628.D

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

05/22/2024

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
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V11

Lab File ID: F041601 BFB Injection Date: 04/16/24

Instrument ID: VOA11 BFB Injection Time: 1114

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 60.0% of mass 95	52.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	Greater than 50.0% of mass 95	82.2
175	5.0 - 9.0% of mass 174	6.2 (7.6)1
176	95.0 - 101.0% of mass 174	78.6 (95.6)1
177	5.0 - 9.0% of mass 176	5.5 (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	VSTD00.25	VSTD00.25	F041602	04/16/24	1136
02	VSTD00.5	VSTD00.5	F041603	04/16/24	1158
03	VSTD001	VSTD001	F041604	04/16/24	1220
04	VSTD002	VSTD002	F041605	04/16/24	1242
05	VSTD005	VSTD005	F041606	04/16/24	1304
06	VSTD010	VSTD010	F041607	04/16/24	1326
07	VSTD020	VSTD020	F041608	04/16/24	1349
08	VSTD050	VSTD050	F041609	04/16/24	1411
09	VSTD100	VSTD100	F041610	04/16/24	1433
10	VSTD200	VSTD200	F041611	04/16/24	1455
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V11

Lab File ID: F041612 BFB Injection Date: 04/16/24

Instrument ID: VOA11 BFB Injection Time: 1517

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.5
75	30.0 - 60.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	87.9
175	5.0 - 9.0% of mass 174	7.1 (8.1)1
176	95.0 - 101.0% of mass 174	84.7 (96.3)1
177	5.0 - 9.0% of mass 176	5.7 (6.7)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	VSTD050	VSTD050	F041613	04/16/24	1539
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24040786	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA11-464219

Tune File: F041612.D — 04/16/24 4/16/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.5 (19.5)
75	30.0 - 60.0% of mass 95	53.5 (53.5)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.3 (7.26)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	87.9 (87.9) 1
175	5.0 - 9.0% of mass 174	7.1 (8.12) 1
176	> 95% but < 101% of mass 174	84.7 (96.3) 1
177	5.0 - 9.0% of mass 176	5.7 (6.68) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	4/16/2024	F041614	VSTD050
2	VLCSW-	LCS	4/16/2024	F041615	VLCSW-240416
3	VLCSDW-	LCSD	4/16/2024	F041616	VLCSDW-240416
4	VBLKW-	MBLK	4/16/2024	F041618	VBLKW-240416
5	HS24040786-	SAMP	4/16/2024	F041628	LH18/24-SP650_041024
6	HS24040905-	MS	4/16/2024	F041632	ZZZZZZMS
7	HS24040905-	MSD	4/16/2024	F041633	ZZZZZZMSD
8	CCV_END	CCV_EN	4/16/2024	F041634	CCV_END

Form 5 - Instrument Performance Check

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	HS24040786	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA11-464254

Tune File: G041601.D — 04/16/24 4/16/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	19.5 (19.5)
75	30.0 - 60.0% of mass 95	53.6 (53.6)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.5 (7.51)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	81.8 (81.8) 1
175	5.0 - 9.0% of mass 174	6.6 (8.02) 1
176	> 95% but < 101% of mass 174	78.6 (96.1) 1
177	5.0 - 9.0% of mass 176	5.5 (6.96) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	4/17/2024	G041602	VSTD050
2	VLCSW-	LCS	4/17/2024	G041603	VLCSW-240416
3	VLCSDW-	LCSD	4/17/2024	G041604	VLCSDW-240416
4	VBLKW-	MBLK	4/17/2024	G041606	VBLKW-240416
5	HS24040786-	SAMP	4/17/2024	G041607	Trip Blank
6	HS24040918-	MS	4/17/2024	G041627	ZZZZZZMS
7	HS24040918-	MSD	4/17/2024	G041628	ZZZZZZMSD
8	CCV_END	CCV_EN	4/17/2024	G041629	CCV_END

Report Date : 26-Apr-2024 10:00 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2024 11:36
End Cal Date : 16-APR-2024 14:55
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Last Edit : 26-Apr-2024 09:59 salina.zaid

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041602.D
Level 2: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Level 3: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041604.D
Level 4: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041605.D
Level 5: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041606.D
Level 6: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D
Level 7: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041608.D
Level 8: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041609.D
Level 9: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041610.D
Level 10: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041611.D

Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
2 Dichlorodifluoromethane	+++++ / 0.53178	0.61656 / 0.50857	0.46224 / 0.55996	0.52478 / 0.56202	0.59948	0.56564	AVRG		0.54789		8.58868
3 Chloromethane	+++++ / 0.91128	1.29432 / 0.84407	0.95438 / 0.92705	0.96212 / 0.89288	0.94557	0.95403	AVRG		0.96508		13.37147
4 Propionitrile	+++++ / 0.13043	0.10068 / 0.13021	0.11259 / 0.13352	0.12233 / 0.14657	0.12576	0.13619	AVRG		0.12648		10.65699

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2024 11:36
End Cal Date : 16-APR-2024 14:55
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Last Edit : 26-Apr-2024 09:59 salina.zaid

Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
5 Vinyl Chloride	+++++	0.61681	0.47607	0.50978	0.54895	0.53846					
	0.52833	0.48881	0.54390	0.54677			AVRG		0.53310		7.66876
6 Bromomethane	+++++	2146	4117	8598	20507	37896					
	74303	173218	336301	+++++			QUAD	-0.03293	3.46212	-0.46831	0.99693
7 Chloroethane	+++++	0.33642	0.34502	0.34851	0.38029	0.36073					
	0.34620	0.29921	0.33935	0.32716			AVRG		0.34254		6.50588
8 Trichlorofluoromethane	+++++	0.95642	0.72779	0.80020	0.91637	0.86534					
	0.87275	0.75421	0.87423	0.87151			AVRG		0.84876		8.74850
9 Acrolein	+++++	113	471	1065	3130	6816					
	16645	48324	107005	273632			QUAD	0.06169	22.55645	-13.92338	0.99906
10 Acetone	+++++	2499	3613	5418	13560	24781					
	54734	141774	281554	628285			LINR	0.07560	0.14637		0.99676
11 1,1-Dichloroethene	+++++	0.43398	0.38267	0.38322	0.40682	0.42926					
	0.43252	0.40301	0.46503	0.46938			AVRG		0.42288		7.49570

Report Date : 26-Apr-2024 10:00 Page 3

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2024 11:36
End Cal Date : 16-APR-2024 14:55
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Last Edit : 26-Apr-2024 09:59 salina.zaid

Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
12 Isobutyl Alcohol	+++++	1063	1684	3413	7294	14705						
	32637	94318	168093	489075			QUAD	-0.32675	142	-59.58434	0.99974	
13 Acetonitrile	+++++	1137	4248	9618	24918	52220						
	113133	325149	650617	1294675			LINR	0.22124	0.06143		0.99921	
14 Allyl Chloride	+++++	3237	7581	23657	54231	77974						
	174579	664155	1328864	2690042			LINR	0.04460	1.27961		0.99848	
15 Iodomethane	+++++	921	2027	4741	10868	27549						
	65560	250219	563189	1383261			LINR	0.24570	0.32515		0.98910	<-
16 Acrylonitrile	+++++	913	2111	6525	16135	34835						
	67714	202945	402852	863604			LINR	0.08275	0.20287		0.99839	
17 Methylene Chloride	+++++	6925	10390	14274	29130	57084						
	111359	296554	579227	1160255			LINR	-0.00541	0.54528		0.99935	
18 Methyl tert-butyl ether	+++++	2958	6918	15692	38846	87928						
	182852	598385	1276515	2761458			LINR	0.06705	1.30308		0.99692	

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2024 11:36
End Cal Date : 16-APR-2024 14:55
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Last Edit : 26-Apr-2024 09:59 salina.zaid

Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
19 Carbon Disulfide	+++++	1.30537	1.10599	1.13249	1.22031	1.28123						
	1.33234	1.28034	1.46541	1.45285			AVRG		1.28626		9.63562	
20 trans-1,2-Dichloroethene	+++++	0.41850	0.40597	0.44994	0.46109	0.48928						
	0.44635	0.46869	0.52500	0.51229			AVRG		0.46412		8.57448	
21 Vinyl Acetate	+++++	4800	10053	23179	59743	135278						
	293612	941511	1932488	3899174			LINR	0.08348	0.92680		0.99878	
22 1,1-Dichloroethane	+++++	0.74705	0.71843	0.76574	0.79661	0.82665						
	0.74505	0.77678	0.86957	0.81593			AVRG		0.78465		6.02565	
23 Chloroprene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
24 2-Butanone	+++++	1119	2826	4791	13698	27778						
	62983	202873	374331	853516			LINR	0.11392	0.19960		0.99702	
25 Methacrylonitrile	+++++	0.38802	0.35388	0.36160	0.38417	0.37400						
	0.36410	0.35300	0.38396	0.38384			AVRG		0.37184		3.74567	

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Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
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Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
26 2,2-Dichloropropane	+++++	1558	3643	7416	20138	41532					
	89634	287105	578631	1288329			LINR	0.06378	0.60491		0.99686
27 cis-1,2-Dichloroethene	+++++	0.42562	0.45796	0.46187	0.49979	0.51385					
	0.48995	0.52792	0.54021	0.55054			AVRG		0.49641		8.39072
28 Chloroform	+++++	0.93799	0.87553	0.93037	0.92594	0.89903					
	0.89388	0.87816	0.90488	0.90634			AVRG		0.90579		2.44236
29 Bromochloromethane	+++++	0.28776	0.28448	0.29594	0.29054	0.28013					
	0.26818	0.25904	0.25550	0.24938			AVRG		0.27455		6.16922
31 1,1,1-Trichloroethane	+++++	0.60944	0.61933	0.65399	0.71015	0.70957					
	0.73740	0.75305	0.80393	0.83916			AVRG		0.71511		10.98249
32 1,1-Dichloropropene	+++++	0.34421	0.33780	0.37418	0.39985	0.39602					
	0.42816	0.40838	0.42215	0.44111			AVRG		0.39465		9.15784
33 1,2-Dichloroethane	+++++	0.50488	0.47526	0.52353	0.54181	0.54084					
	0.58874	0.48899	0.50610	0.51604			AVRG		0.52069		6.45729

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34 Carbon Tetrachloride	+++++	0.31096	0.35037	0.36812	0.41549	0.42840					
	0.45967	0.44487	0.47217	0.50248			AVRG		0.41695		14.96657
37 Benzene	+++++	1.15540	1.09952	1.20078	1.22300	1.22654					
	1.42060	1.22881	1.22629	1.24218			AVRG		1.22479		7.05618
38 Trichloroethene	+++++	0.36204	0.31648	0.34339	0.34681	0.34949					
	0.42642	0.37517	0.37578	0.39592			AVRG		0.36572		8.83148
39 Bromodichloromethane	+++++	0.33623	0.34967	0.37543	0.40521	0.40623					
	0.45787	0.44209	0.47834	0.51767			AVRG		0.41875		14.42979
40 Methyl Methacrylate	+++++	1732	4145	9015	22679	52474					
	141838	431907	862235	1880399			LINR	0.06174	0.88608		0.99794
41 2-Chloroethylvinyl ether	+++++	934	2321	5346	14311	34158					
	89899	317349	661020	1360414			LINR	0.12151	0.22043		0.99858
42 1,2-Dichloropropane	+++++	0.28543	0.27593	0.30119	0.30841	0.31789					
	0.35970	0.31785	0.32683	0.33664			AVRG		0.31443		8.15147

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43 2-Nitropropane	+++++	0.62271	0.44341	0.46037	0.46397	0.51882					
	0.59465	0.48022	0.49697	0.62819			AVRG		0.52326		13.91390
44 Dibromomethane	+++++	0.20522	0.18791	0.22770	0.22198	0.22816					
	0.25954	0.22880	0.24120	0.25478			AVRG		0.22837		9.85080
45 4-Methyl-2-Pentanone	+++++	1737	3658	9250	24208	50538					
	131593	422897	893756	2111882			QUAD	0.02854	4.03523	-0.40274	0.99996
46 cis-1,3-Dichloropropene	+++++	1801	3773	8599	20368	45376					
	121506	393967	844777	1728347			LINR	0.05694	0.55976		0.99832
49 Ethyl Methacrylate	+++++	1136	2815	5726	18397	41924					
	112252	362381	743474	1718096			QUAD	0.03047	2.30165	-0.22906	0.99969
50 Toluene	+++++	6158	14002	33909	85844	175769					
	401065	1183051	2295565	4698342			LINR	0.01435	1.49489		0.99930
51 trans-1,3-Dichloropropene	+++++	1234	3071	6453	18069	37402					
	106160	353146	738167	1710052			QUAD	0.03518	2.32895	-0.23994	0.99950

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52 2-Hexanone	+++++	0.18885	0.15394	0.17578	0.18602	0.20552					
	0.22598	0.17411	0.15995	0.21380			AVRG		0.18711		12.95761
53 1,1,2-Trichloroethane	+++++	0.23715	0.26351	0.31545	0.30384	0.29911					
	0.29558	0.28269	0.26866	0.30412			AVRG		0.28557		8.73666
54 1,3-Dichloropropane	+++++	0.44508	0.50434	0.56627	0.58893	0.59356					
	0.66124	0.56735	0.57623	0.61187			AVRG		0.56832		10.94294
55 Dibromochloromethane	+++++	1391	3515	7367	18107	38419					
	100656	292228	627845	1380662			LINR	0.06097	0.43843		0.99575
56 Tetrachloroethene	+++++	0.27322	0.30964	0.34295	0.34962	0.35380					
	0.37895	0.32529	0.33130	0.35476			AVRG		0.33550		9.13702
57 1,2-Dibromoethane	+++++	1472	3880	8100	20733	42137					
	110205	297746	596740	1248832			LINR	0.02518	0.39663		0.99844
58 1-Chlorohexane	+++++	7722	9603	12479	22923	39591					
	89813	238995	468300	943189			LINR	-0.00522	0.30148		0.99935

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59 Chlorobenzene	+++++	1.08439	1.02337	1.15695	1.10605	1.08577						
	1.11493	0.99277	0.99154	1.03334			AVRG		1.06546		5.43100	
60 1,1,1,2-Tetrachloroethane	+++++	0.27814	0.25673	0.31886	0.33642	0.35485						
	0.36336	0.35666	0.37030	0.38667			AVRG		0.33578		12.98203	
61 Ethylbenzene	+++++	0.34551	0.38304	0.43481	0.50047	0.49399						
	0.52480	0.50895	0.51109	0.52276			AVRG		0.46949		14.04636	
62 m,p-Xylenes	+++++	5345	11679	25748	75315	169508						
	356725	1041219	2039784	4029503			LINR	0.00587	0.64336		0.99984	
63 o-Xylene	+++++	2130	5330	11438	31933	74248						
	164363	504684	963054	2021582			LINR	0.02469	0.64249		0.99866	
64 Styrene	+++++	2978	7651	17072	50772	127658						
	283377	869779	1670286	3420818			LINR	0.02047	1.09083		0.99934	
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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66 Bromoform	+++++	924	1764	4037	10400	22227						
	49592	166752	358310	853001			QUAD	0.01244	5.08540	-1.31617	0.99996	
67 Isopropylbenzene	+++++	4927	12171	26322	70937	177725						
	414956	1284730	2528171	5111519			LINR	0.02383	1.63416		0.99960	
68 1,1,2,2-Tetrachloroethane	+++++	0.78633	0.77278	0.88016	0.79475	0.86705						
	0.86391	0.83080	0.80771	0.93393			AVRG		0.83749		6.29797	
71 1,2,3-Trichloropropane	+++++	0.63286	0.61489	0.73091	0.69444	0.76103						
	0.77978	0.77894	0.78455	0.96068			AVRG		0.74867		13.59183	
72 trans-1,4-Dichloro-2-butene	+++++	286	644	1386	4003	9785						
	22617	69924	154263	364794			QUAD	0.01367	11.83651	-7.08729	0.99993	<-
73 n-Propylbenzene	+++++	5364	13723	30533	90213	218199						
	508436	1489657	2866617	5729712			LINR	0.02790	3.45500		0.99785	
74 Bromobenzene	+++++	1884	4573	9837	24475	55305						
	119088	352094	713358	1445423			LINR	0.03704	0.86993		0.99713	

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75 1,3,5-Trimethylbenzene	+++++	3465	9274	21560	65820	161511					
	380302	1116005	2364404	4456187			LINR	0.03001	2.70862		0.99947
76 2-Chlorotoluene	+++++	4360	9968	21820	62639	141451					
	318498	900093	1758788	3537373			LINR	0.02615	2.12826		0.99752
77 4-Chlorotoluene	+++++	4225	10728	25497	76551	174883					
	382430	1074152	2231619	4211219			LINR	0.01750	2.55148		0.99944
78 tert-Butylbenzene	+++++	3714	8365	18499	55815	123461					
	313909	907488	2033202	3851786			LINR	0.04191	2.34286		0.99894
79 1,2,4-Trimethylbenzene	+++++	4148	9304	20175	66791	151228					
	377112	1057833	2302583	4367311			LINR	0.03416	2.65240		0.99914
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	5077	11160	26231	78890	182530					
	453246	1276333	2810976	5380041			LINR	0.03921	3.26538		0.99881

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82 p-Isopropyltoluene	+++++	4483	9840	22768	72059	162517					
	401916	1157813	2525921	4824144			LINR	0.03853	2.92925		0.99896
83 1,3-Dichlorobenzene	+++++	1.17255	1.06791	1.41277	1.44027	1.45648					
	1.57831	1.42111	1.50246	1.60548			AVRG		1.40637		12.60957
84 1,4-Dichlorobenzene	+++++	1.79635	1.54876	1.69664	1.61503	1.57583					
	1.65301	1.45477	1.52605	1.61739			AVRG		1.60931		6.22234
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
86 Benzyl Chloride	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
87 n-Butylbenzene	+++++	5230	11106	21361	54830	135123					
	335060	987398	2100111	4130424			LINR	0.04424	2.50052		0.99818
88 1,2-Dichlorobenzene	+++++	1.20257	1.24042	1.35294	1.42015	1.57094					
	1.60007	1.48253	1.46530	1.60895			AVRG		1.43821		10.36900

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89 1,2-Dibromo-3-Chloropropane	+++++ / 14460	245 / 46540	380 / 106795	932 / 275848	2547	5862	QUAD	0.01954	9.88048	-5.88911	0.99994	<-
90 1,2,4-Trichlorobenzene	+++++ / 139087	2461 / 402555	4363 / 850784	8865 / 1935875	22937	59344	QUAD	0.00007	1.19614	-0.07361	0.99972	
91 Hexachlorobutadiene	+++++ / 0.51341	0.49099 / 0.47839	0.41069 / 0.45756	0.44375 / 0.54936	0.45017	0.52390	AVRG		0.47980		9.17007	
92 Naphthalene	+++++ / 277978	4265 / 914218	7232 / 1962632	13763 / +++++	39409	109110	LINR	0.03317	2.16918		0.99914	
93 1,2,3-Trichlorobenzene	+++++ / 129909	2261 / 398734	4620 / 783137	8811 / +++++	23869	61366	LINR	0.00313	0.86793		0.99910	
130 Ethyl Acetate	+++++ / 150564	3016 / 480017	6279 / 882657	12155 / 1999158	29708	68125	LINR	0.05376	0.93530		0.99738	
131 Methyl Acrylate	+++++ / 82763	1048 / 258470	2673 / 475235	4132 / 1042092	15690	34400	LINR	0.04738	0.48952		0.99869	

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132 n-Butanol	+++++	378	829	1923	4404	9154						
	27174	81867	174116	533567			QUAD	0.63191	140	-60.86461	0.99948	<-
133 Ethyl Acrylate	+++++	1048	2520	5683	13409	27844						
	81805	300775	618897	1399635			LINR	0.08968	0.66037		0.99573	
134 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
135 1,4-Dioxane	47.00000	146	610	1413	3091	8343						
	21077	64136	112341	270120			QUAD	0.20570	200	-83.78021	0.99973	
136 n-Hexane	+++++	1271	3102	6703	17984	42536						
	85274	278057	574420	1099856			LINR	0.02845	0.52709		0.99811	
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
138 Freon TF	+++++	0.53424	0.46468	0.46895	0.53401	0.53206						
	0.51336	0.47181	0.53117	0.53373			AVRG		0.50933		6.15685	

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146 Methyl Acetate	+++++	0.62541	0.46000	0.46363	0.42472	0.45548						
	0.49540	0.44300	0.51989	0.55616			AVRG		0.49374		12.96194	
147 Methylcyclohexane	+++++	2113	4578	8800	24271	49862						
	122140	317020	602325	1175184			LINR	-0.00526	0.37919		0.99939	
149 Isopropyl alcohol	+++++	1340	2811	6079	12007	30728						
	76612	220200	461950	1234450			QUAD	0.43133	52.24923	-7.76410	0.99958	
152 Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
150 Allyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
151 4-Methyl-2-pentanol	+++++	2936	6178	12463	33069	80518						
	235356	718531	1491583	4457203			QUAD	0.50465	24.08673	-1.78289	0.99972	
148 Tert-butyl alcohol	+++++	1662	4026	7214	18758	40103						
	88871	270984	599169	1721193			QUAD	0.52105	41.06914	-5.11395	0.99915	

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Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
139 Diethyl ether	+++++	0.66153	0.53600	0.57032	0.58303	0.57706						
	0.60398	0.54449	0.62718	0.62150			AVRG		0.59168		6.87889	
140 1,3-Butadiene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
141 Cyclohexane	+++++	10403	13271	19375	37347	67513						
	141826	390936	705348	1453442			LINR	-0.00969	0.67969		0.99983	
142 Tetrahydrofuran	+++++	726	1915	3343	8260	18711						
	43833	140427	273406	641894			QUAD	0.04343	8.41617	-1.52098	0.99982	
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
145 alpha-Methylstyrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2024 11:36
End Cal Date : 16-APR-2024 14:55
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Last Edit : 26-Apr-2024 09:59 salina.zaid

Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
156 Diisopropyl ether	+++++	3402	8416	17323	49397	112808					
	246734	777266	1532555	2998902			LINR	0.02552	1.43049		0.99909
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
158 Dichlorofluoromethane	+++++	0.94659	0.81174	0.82443	0.88335	0.84908					
	0.85122	0.73392	0.83798	0.81601			AVRG		0.83937		6.83364
159 Propylene oxide	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Last Edit : 26-Apr-2024 09:59 salina.zaid

Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
160 2-Methylnaphthalene	+++++ / 70459	845 / 296453	1825 / 765534	3182 / 2246009	8493	22971	QUAD	0.06390	1.38781	-0.12227	0.99858	
161 3-Methyl-1-butanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
162 Butyl acrylate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
163 Butyl methacrylate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
164 Dicyclopentadiene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
165 4-Vinyl-1-cyclohexene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
166 1,2,3-Trimethylbenzene	+++++ / 346137	5207 / 963919	10652 / 2095897	23974 / 3997935	66355	146218	LINR	0.03116	2.42307		0.99896	

Report Date : 26-Apr-2024 10:00 Page 19

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2024 11:36
End Cal Date : 16-APR-2024 14:55
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Last Edit : 26-Apr-2024 09:59 salina.zaid

Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
167 Ethanol	+++++	953	1383	2166	5038	9963						
	18989	47670	90967	217477			QUAD	-0.65725	260	-154	0.99967	
168 1-Propanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
170 1,3,5-Trichlorobenzene	+++++	2461	4363	8865	22937	59344						
	139087	402555	850784	1935875			QUAD	0.00007	1.19614	-0.07361	0.99972	
172 tert-Butyl formate	+++++	1185	2527	4988	11230	24758						
	59065	182252	378619	1168870			QUAD	0.04155	6.46294	-1.29445	0.99971	
173 3,3-Dimethyl-1-butanol	+++++	1977	3645	+++++	20350	46006						
	133062	352607	749128	2066411			QUAD	-0.08489	49.64280	-7.32121	0.99950	<-
174 tert-Amyl methyl ether	+++++	2628	5954	12205	32019	64863						
	163886	549351	1114154	2547935			LINR	0.08051	1.19688		0.99557	
175 tert-Butyl ethyl ether	+++++	2098	6677	14344	37670	82980						
	180101	613387	1214184	2717523			LINR	0.06828	1.27706		0.99690	

Report Date : 26-Apr-2024 10:00 Page 20

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2024 11:36
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Last Edit : 26-Apr-2024 09:59 salina.zaid

Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
176 tert-Amyl alcohol	+++++	1185	2528	4942	11274	23531					
	59065	182252	376409	1166114			QUAD	0.42528	64.91425	-13.06721	0.99973
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
178 Ethylene oxide	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
179 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
180 1-Methylnaphthalene	+++++	1133	2017	3696	11279	27343					
	88171	323047	749020	2088715			QUAD	0.04252	1.40116	-0.12254	0.99958
181 2-Furfural	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
182 Epichlorohydrin	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
188 Isopropyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

ALS Laboratory Group

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Quant Method : ISTD
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Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Last Edit : 26-Apr-2024 09:59 salina.zaid

Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
189 n-Butyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
190 Propanal	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
191 n-Buteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
192 Isobuteraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
193 2-Ethyl-1-hexanol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
194 Acetaldehyde	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
195 Methyl Amyl Ketone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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ALS Laboratory Group

INITIAL CALIBRATION DATA

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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
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Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
196 2-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
199 1-Hexene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
201 1-Butene(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 16-APR-2024 11:36
End Cal Date : 16-APR-2024 14:55
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Last Edit : 26-Apr-2024 09:59 salina.zaid

Compound	0.2500000 Level 1 / 20.0000 Level 7	0.5000000 Level 2 / 50.0000 Level 8	1.0000 Level 3 / 100.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
202 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
M 94 1,2-Dichloroethylene (total)	+++++	0.42206	0.43197	0.45591	0.48044	0.50157	AVRG		0.48027		8.26185
	0.46815	0.49831	0.53260	0.53141							
M 95 Xylenes (total)	+++++	7475	17009	37186	107248	243756	LINR	0.05790	0.64985		0.99969
	521088	1545903	3002838	6051085							
$ 30 Dibromofluoromethane	+++++	3057	6063	12032	25667	47064	LINR	0.00651	0.49113		0.99967
	95398	278801	498624	1049258							
$ 35 1,2-Dichloroethane-d4	+++++	+++++	8909	16251	33215	61388	LINR	0.00234	0.60605		0.99946
	126240	337864	615555	1297310							
$ 48 Toluene-d8	+++++	10541	18318	34119	75524	148227	QUAD	-0.01472	0.88237	-0.02189	0.99977
	345353	994640	1932426	4084756							
$ 69 4-Bromofluorobenzene	+++++	8131	10601	15286	30658	61168	LINR	0.00313	0.47189		0.99923
	123525	371908	730271	1488454							

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Method file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Last Edit : 26-Apr-2024 09:59 salina.zaid

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

05/22/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID F041613.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	F041613.D	**Inj Date**	16-APR-2024 1539

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	0.000		80-120	*
1,1,1-Trichloroethane	50.0	0.000		80-120	*
1,1,2,2-Tetrachloroethane	50.0	0.000		80-120	*
Freon TF	50.0	0.000		80-120	*
Methyl acetate	50.0	0.000		80-120	*
Cyclohexane	50.0	0.000		80-120	*
Methylcyclohexane	50.0	0.000		80-120	*
Carbon Disulfide	100	0.000		80-120	*
2-Hexanone	100	0.000		80-120	*
1,1,2-Trichloroethane	50.0	0.000		80-120	*
1,1-Dichloroethane	50.0	0.000		80-120	*
1,1-Dichloroethene	50.0	0.000		80-120	*
1,1-Dichloropropene	50.0	0.000		80-120	*
1,2,3-Trichlorobenzene	50.0	0.000		80-120	*
1,2,3-Trichloropropane	50.0	0.000		80-120	*
1,2,4-Trichlorobenzene	50.0	0.000		80-120	*
1,2,4-Trimethylbenzene	50.0	0.000		80-120	*
1,2-Dibromo-3-Chloropropane	50.0	0.000		80-120	*
1,2-Dibromoethane	50.0	0.000		80-120	*
Acrolein	100	0.000		80-120	*
Acrylonitrile	100	0.000		80-120	*
1,2-Dichlorobenzene	50.0	0.000		80-120	*
1,2-Dichloroethane	50.0	0.000		80-120	*
1,2-Dichloropropane	50.0	0.000		80-120	*
1,3,5-Trimethylbenzene	50.0	0.000		80-120	*
1,3-Dichlorobenzene	50.0	0.000		80-120	*
1,3-Dichloropropane	50.0	0.000		80-120	*
1,4-Dichlorobenzene	50.0	0.000		80-120	*
1-Chlorohexane	50.0	0.000		80-120	*
2,2-Dichloropropane	50.0	0.000		80-120	*
2-Butanone	100	0.000		80-120	*
2-Chloroethylvinyl ether	100	0.000		80-120	*
2-Chlorotoluene	50.0	0.000		80-120	*
4-Chlorotoluene	50.0	0.000		80-120	*

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID F041613.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID F041613.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 16-APR-2024 1539

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	0.000		80-120	*
4-Methyl-2-Pentanone	100	0.000		80-120	*
Acetone	100	0.000		80-120	*
Acetonitrile	500	0.000		80-120	*
Allyl Chloride	50.0	0.000		80-120	*
Benzene	50.0	0.000		80-120	*
Bromobenzene	50.0	0.000		80-120	*
Bromochloromethane	50.0	0.000		80-120	*
Bromodichloromethane	50.0	0.000		80-120	*
Bromoform	50.0	0.000		80-120	*
Bromomethane	50.0	0.000		80-120	*
Carbon Tetrachloride	50.0	0.000		80-120	*
Chlorobenzene	50.0	0.000		80-120	*
Chloroethane	50.0	0.000		80-120	*
Chloroform	50.0	0.000		80-120	*
Chloromethane	50.0	0.000		80-120	*
Chloroprene	50.0	0.000		80-120	*
cis-1,2-Dichloroethene	50.0	0.000		80-120	*
cis-1,3-Dichloropropene	50.0	0.000		80-120	*
Dibromochloromethane	50.0	0.000		80-120	*
Dibromomethane	50.0	0.000		80-120	*
Dichlorodifluoromethane	50.0	0.000		80-120	*
Ethylbenzene	50.0	0.000		80-120	*
Ethyl Methacrylate	50.0	0.000		80-120	*
Iodomethane	100	0.000		80-120	*
Isobutyl Alcohol	1000	0.000		70-130	*
Propionitrile	500	0.000		70-130	*
Hexachlorobutadiene	50.0	0.000		80-120	*
Isopropylbenzene	50.0	0.000		80-120	*
m,p-Xylenes	100	0.000		80-120	*
Methyl tert-butyl ether	50.0	0.000		80-120	*
Methylene Chloride	50.0	0.000		80-120	*
Methacrylonitrile	50.0	0.000		80-120	*
Methyl Methacrylate	50.0	0.000		80-120	*

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID F041613.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix LIQUID
Lab Smp Id VSTD050
Data Type MS DATA
File ID F041613.D

Fraction VOA
Client Smp ID VSTD050
SampleType METHSPIKE
Inj Date 16-APR-2024 1539

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	0.000		80-120	*
n-Propylbenzene	50.0	0.000		80-120	*
Naphthalene	50.0	0.000		80-120	*
o-Xylene	50.0	0.000		80-120	*
sec-Butylbenzene	50.0	0.000		80-120	*
Styrene	50.0	0.000		80-120	*
tert-Butylbenzene	50.0	0.000		80-120	*
Tetrachloroethene	50.0	0.000		80-120	*
Toluene	50.0	0.000		80-120	*
trans-1,2-Dichloroethene	50.0	0.000		80-120	*
trans-1,3-Dichloropropene	50.0	0.000		80-120	*
trans-1,4-Dichloro-2-butene	50.0	0.000		80-120	*
Trichloroethene	50.0	0.000		80-120	*
Trichlorofluoromethane	50.0	0.000		80-120	*
Vinyl Acetate	100	0.000		80-120	*
Vinyl Chloride	50.0	0.000		80-120	*
1,2-Dichloroethylene (total)	100	0.000		80-120	*
Xylenes (total)	150	0.000		80-120	*
1,4-Dioxane	1000	0.000		80-120	*
Dibromofluoromethane	50.0	0.000		85-115	*
1,2-Dichloroethane-d4	50.0	0.000		70-120	*
Toluene-d8	50.0	0.000		85-115	*
4-Bromofluorobenzene	50.0	0.000		75-120	*

right solutions.
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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

05/22/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID F041614.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID F041614.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 16-APR-2024 1601
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.548	0.531	0.531	0.100	-3.088	20.0	Averaged	
Chloromethane	0.965	0.848	0.848	0.100	-12.166	20.0	Averaged	
Propionitrile	0.126	0.141	0.141	0.010	11.8	20.0	Averaged	
Vinyl Chloride	0.533	0.510	0.510	0.100	-4.363	20.0	Averaged	
Bromomethane	50.0	45.4	0.283	0.100	-9.166	20.0	Quadratic	
Chloroethane	0.343	0.315	0.315	0.100	-7.945	20.0	Averaged	
Trichlorofluoromethane	0.849	0.798	0.798	0.100	-5.962	20.0	Averaged	
Dichlorofluoromethane	0.839	0.774	0.774	0.100	-7.771	20.0	Averaged	
Acrolein	100	100	0.046	0.010	0.363	20.0	Quadratic	
Acetone	100	93.8	0.132	0.100	-6.227	20.0	Linear	
1,1-Dichloroethene	0.423	0.430	0.430	0.100	1.65	20.0	Averaged	
Isobutyl Alcohol	1000	1187	0.009	0.005	18.7	20.0	Quadratic	
Acetonitrile	500	480	0.058	0.005	-4.002	20.0	Linear	
Allyl Chloride	50.0	49.6	1.21	0.100	-0.737	20.0	Linear	
Iodomethane	100	112	0.325	0.100	12.3	20.0	Linear	
Acrylonitrile	100	96.2	0.187	0.050	-3.773	20.0	Linear	
Methylene Chloride	50.0	48.0	0.526	0.100	-4.065	20.0	Linear	
Methyl tert-butyl ether	50.0	48.7	1.18	0.100	-2.512	20.0	Linear	
Carbon Disulfide	1.29	1.33	1.33	0.100	3.48	20.0	Averaged	
trans-1,2-Dichloroethene	0.464	0.489	0.489	0.100	5.39	20.0	Averaged	
Vinyl Acetate	100	98.8	0.877	0.010	-1.217	20.0	Linear	
1,1-Dichloroethane	0.785	0.820	0.820	0.200	4.57	20.0	Averaged	
2-Butanone	100	99.0	0.187	0.100	-0.696	20.0	Linear	
Methacrylonitrile	0.372	0.359	0.359	0.100	-3.565	20.0	Averaged	
2,2-Dichloropropane	50.0	47.5	0.536	0.100	-5.008	20.0	Linear	
cis-1,2-Dichloroethene	0.496	0.553	0.553	0.100	11.4	20.0	Averaged	
Chloroform	0.906	0.913	0.913	0.200	0.755	20.0	Averaged	
Bromochloromethane	0.275	0.270	0.270	0.100	-1.561	20.0	Averaged	
30 Dibromofluoromethane	50.0	51.6	0.503	0.100	3.10	20.0	Linear	
1,1,1-Trichloroethane	0.715	0.808	0.808	0.100	13.0	20.0	Averaged	
1,1-Dichloropropene	0.395	0.435	0.435	0.100	10.2	20.0	Averaged	
1,2-Dichloroethane	0.521	0.513	0.513	0.100	-1.514	20.0	Averaged	
Carbon Tetrachloride	0.417	0.468	0.468	0.100	12.3	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	50.4	0.609	0.100	0.705	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID F041614.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID F041614.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 16-APR-2024 1601
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.22	1.29	1.29	0.500	4.93	20.0	Averaged	
Trichloroethene	0.366	0.395	0.395	0.200	7.95	20.0	Averaged	
Bromodichloromethane	0.419	0.457	0.457	0.200	9.14	20.0	Averaged	
Methyl Methacrylate	50.0	48.0	0.797	0.100	-3.913	20.0	Linear	
2-Chloroethylvinyl ether	100	96.6	0.200	0.001	-3.385	20.0	Linear	
1,2-Dichloropropane	0.314	0.333	0.333	0.100	5.96	20.0	Averaged	
2-Nitropropane	0.523	0.544	0.544	0.000	3.98	20.0	Averaged	
Dibromomethane	0.228	0.241	0.241	0.100	5.64	20.0	Averaged	
4-Methyl-2-Pentanone	100	119	0.312	0.100	19.4	20.0	Quadratic	
cis-1,3-Dichloropropene	50.0	47.5	0.500	0.200	-4.948	20.0	Linear	
48 Toluene-d8	50.0	58.9	1.40	0.100	17.7	20.0	Quadratic	
Ethyl Methacrylate	50.0	53.3	0.472	0.100	6.61	20.0	Quadratic	
Toluene	50.0	54.5	1.61	0.400	8.91	20.0	Linear	
trans-1,3-Dichloropropene	50.0	51.6	0.449	0.100	3.26	20.0	Quadratic	
2-Hexanone	0.187	0.209	0.209	0.100	11.5	20.0	Averaged	
1,1,2-Trichloroethane	0.286	0.313	0.313	0.100	9.58	20.0	Averaged	
1,3-Dichloropropane	0.568	0.639	0.639	0.100	12.4	20.0	Averaged	
Dibromochloromethane	50.0	49.4	0.406	0.100	-1.238	20.0	Linear	
Tetrachloroethene	0.336	0.364	0.364	0.200	8.53	20.0	Averaged	
1,2-Dibromoethane	50.0	52.7	0.408	0.100	5.45	20.0	Linear	
1-Chlorohexane	50.0	47.4	0.287	0.100	-5.203	20.0	Linear	
Chlorobenzene	1.07	1.10	1.10	0.500	3.60	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.336	0.398	0.398	0.100	18.4	20.0	Averaged	
Ethylbenzene	0.469	0.562	0.562	0.100	19.7	20.0	Averaged	
m,p-Xylenes	100	109	0.701	0.100	9.19	20.0	Linear	
o-Xylene	50.0	53.8	0.676	0.300	7.63	20.0	Linear	
Styrene	50.0	53.9	1.15	0.300	7.76	20.0	Linear	
Bromoform	50.0	56.7	0.235	0.100	13.5	20.0	Quadratic	
Isopropylbenzene	50.0	55.0	1.76	0.100	10.0	20.0	Linear	
1,1,2,2-Tetrachloroethane	0.837	0.943	0.943	0.300	12.7	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	54.6	0.514	0.100	9.25	20.0	Linear	
1,2,3-Trichloropropane	0.749	0.896	0.896	0.100	19.7	20.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	57.2	0.102	0.050	14.4	20.0	Quadratic	
n-Propylbenzene	50.0	56.7	3.82	0.100	13.4	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24040786

Project Longhorn GW Treatment Plant Monthly Effluent Samples

RunID F041614.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID F041614.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 16-APR-2024 1601
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	54.8	0.922	0.100	9.67	20.0	Linear	
1,3,5-Trimethylbenzene	50.0	55.0	2.90	0.100	9.92	20.0	Linear	
2-Chlorotoluene	50.0	56.2	2.34	0.100	12.4	20.0	Linear	
4-Chlorotoluene	50.0	55.0	2.76	0.100	9.95	20.0	Linear	
tert-Butylbenzene	50.0	54.7	2.47	0.100	9.43	20.0	Linear	
1,2,4-Trimethylbenzene	50.0	54.9	2.82	0.100	9.87	20.0	Linear	
sec-Butylbenzene	50.0	55.2	3.48	0.100	10.5	20.0	Linear	
p-Isopropyltoluene	50.0	54.4	3.07	0.100	8.81	20.0	Linear	
1,3-Dichlorobenzene	1.41	1.70	1.70	0.600	20.9	20.0	Averaged	*
1,4-Dichlorobenzene	1.61	1.73	1.73	0.400	7.32	20.0	Averaged	
n-Butylbenzene	50.0	52.7	2.52	0.500	5.36	20.0	Linear	
1,2-Dichlorobenzene	1.44	1.66	1.66	0.400	15.6	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	55.8	0.120	0.050	11.6	20.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	59.1	1.06	0.200	18.3	20.0	Quadratic	
Hexachlorobutadiene	0.480	0.537	0.537	0.100	12.0	20.0	Averaged	
Naphthalene	50.0	58.0	2.44	0.200	16.0	20.0	Linear	
1,2,3-Trichlorobenzene	50.0	60.7	1.05	0.100	21.5	20.0	Linear	*
Methyl Acetate	0.494	0.501	0.501	0.100	1.38	20.0	Averaged	
Freon TF	0.509	0.492	0.492	0.100	-3.312	20.0	Averaged	
Diethyl ether	0.592	0.596	0.596	0.100	0.717	20.0	Averaged	
Cyclohexane	50.0	50.9	0.699	0.100	1.82	20.0	Linear	
Methylcyclohexane	50.0	50.5	0.385	0.100	0.950	20.0	Linear	
n-Butanol	1000	1169	0.009	0.005	16.9	20.0	Quadratic	
Methyl Acrylate	50.0	52.1	0.487	0.100	4.20	20.0	Linear	
Ethyl Acrylate	50.0	46.8	0.559	0.100	-6.314	20.0	Linear	
1,4-Dioxane	1000	1114	0.006	0.001	11.4	20.0	Quadratic	
n-Hexane	50.0	50.1	0.513	0.100	0.103	20.0	Linear	
Tetrahydrofuran	100	112	0.137	0.001	12.1	20.0	Quadratic	
Tert-butyl alcohol	1000	1129	0.029	0.005	12.9	20.0	Quadratic	
Isopropyl alcohol	1000	1101	0.022	0.005	10.1	20.0	Quadratic	
4-Methyl-2-pentanol	1000	1150	0.050	0.005	15.0	20.0	Quadratic	
1,2,3-Trimethylbenzene	50.0	55.0	2.59	0.100	9.95	20.0	Linear	
Ethanol	1000	1095	0.005	0.001	9.50	20.0	Quadratic	
1,3,5-Trichlorobenzene	50.0	59.1	1.06	0.100	18.3	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder**

Project Longhorn GW Treatment Plant Monthly Effluent Samples **HS24040786**

RunID

Volatiles by EPA Volatiles Organics by Method 8260C

F041614.D

Instrument ID voa11.i
Lab File ID F041614.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 16-APR-2024 1601
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	120	0.198	0.100	19.7	20.0	Quadratic	
3,3-Dimethyl-1-butanol	1000	1241	0.027	0.005	24.1	20.0	Quadratic	*
tert-Amyl methyl ether	50.0	50.1	1.10	0.005	0.271	20.0	Linear	
tert-Butyl ethyl ether	50.0	50.7	1.21	0.100	1.39	20.0	Linear	
2-Methylnaphthalene	50.0	62.6	0.933	0.100	25.2	20.0	Quadratic	*
Diisopropyl ether	50.0	51.0	1.42	0.100	1.98	20.0	Linear	
1-Methylnaphthalene	50.0	68.9	1.05	0.100	37.9	20.0	Quadratic	*
Ethyl Acetate	50.0	51.0	0.903	0.100	1.94	20.0	Linear	
tert-Amyl alcohol	1000	1203	0.020	0.005	20.3	20.0	Quadratic	*
94 1,2-Dichloroethylene (total	0.480	0.521	0.521	0.200	8.48	20.0	Averaged	
95 Xylenes (total)	150	163	0.616	0.100	8.67	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID F041634.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID F041634.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 16-APR-2024 2324
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.548	0.535	0.535	0.100	-2.439	50.0	Averaged	
Chloromethane	0.965	0.809	0.809	0.100	-16.126	50.0	Averaged	
Propionitrile	0.126	0.131	0.131	0.010	3.89	50.0	Averaged	
Vinyl Chloride	0.533	0.511	0.511	0.100	-4.195	50.0	Averaged	
Bromomethane	50.0	42.8	0.266	0.100	-14.477	50.0	Quadratic	
Chloroethane	0.343	0.340	0.340	0.100	-0.844	50.0	Averaged	
Trichlorofluoromethane	0.849	0.827	0.827	0.100	-2.561	50.0	Averaged	
Dichlorofluoromethane	0.839	0.785	0.785	0.100	-6.518	50.0	Averaged	
Acrolein	100	151	0.072	0.010	50.6	50.0	Quadratic	*
Acetone	100	88.8	0.124	0.100	-11.210	50.0	Linear	
1,1-Dichloroethene	0.423	0.405	0.405	0.100	-4.218	50.0	Averaged	
Isobutyl Alcohol	1000	1041	0.008	0.005	4.10	50.0	Quadratic	
Acetonitrile	500	467	0.056	0.005	-6.650	50.0	Linear	
Allyl Chloride	50.0	45.1	1.10	0.100	-9.782	50.0	Linear	
Iodomethane	100	86.0	0.240	0.100	-13.954	50.0	Linear	
Acrylonitrile	100	89.4	0.173	0.050	-10.609	50.0	Linear	
Methylene Chloride	50.0	44.6	0.489	0.100	-10.874	50.0	Linear	
Methyl tert-butyl ether	50.0	45.0	1.09	0.100	-10.029	50.0	Linear	
Carbon Disulfide	1.29	1.18	1.18	0.100	-8.026	50.0	Averaged	
trans-1,2-Dichloroethene	0.464	0.445	0.445	0.100	-4.179	50.0	Averaged	
Vinyl Acetate	100	92.8	0.822	0.010	-7.183	50.0	Linear	
1,1-Dichloroethane	0.785	0.755	0.755	0.200	-3.778	50.0	Averaged	
2-Butanone	100	94.7	0.178	0.100	-5.282	50.0	Linear	
Methacrylonitrile	0.372	0.360	0.360	0.100	-3.196	50.0	Averaged	
2,2-Dichloropropane	50.0	44.2	0.496	0.100	-11.664	50.0	Linear	
cis-1,2-Dichloroethene	0.496	0.536	0.536	0.100	7.99	50.0	Averaged	
Chloroform	0.906	0.892	0.892	0.200	-1.511	50.0	Averaged	
Bromochloromethane	0.275	0.252	0.252	0.100	-8.273	50.0	Averaged	
30 Dibromofluoromethane	50.0	46.7	0.456	0.100	-6.592	50.0	Linear	
1,1,1-Trichloroethane	0.715	0.790	0.790	0.100	10.5	50.0	Averaged	
1,1-Dichloropropene	0.395	0.393	0.393	0.100	-0.533	50.0	Averaged	
1,2-Dichloroethane	0.521	0.493	0.493	0.100	-5.324	50.0	Averaged	
Carbon Tetrachloride	0.417	0.421	0.421	0.100	0.987	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	45.7	0.553	0.100	-8.600	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID F041634.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID F041634.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 16-APR-2024 2324
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.22	1.24	1.24	0.500	1.28	50.0	Averaged	
Trichloroethene	0.366	0.340	0.340	0.200	-6.987	50.0	Averaged	
Bromodichloromethane	0.419	0.403	0.403	0.200	-3.788	50.0	Averaged	
Methyl Methacrylate	50.0	46.8	0.774	0.100	-6.464	50.0	Linear	
2-Chloroethylvinyl ether	100	82.6	0.169	0.001	-17.440	50.0	Linear	
1,2-Dichloropropane	0.314	0.300	0.300	0.100	-4.531	50.0	Averaged	
2-Nitropropane	0.523	0.514	0.514	0.000	-1.819	50.0	Averaged	
Dibromomethane	0.228	0.222	0.222	0.100	-2.810	50.0	Averaged	
4-Methyl-2-Pentanone	100	98.8	0.254	0.100	-1.204	50.0	Quadratic	
cis-1,3-Dichloropropene	50.0	41.4	0.431	0.200	-17.268	50.0	Linear	
48 Toluene-d8	50.0	45.6	1.08	0.100	-8.829	50.0	Quadratic	
Ethyl Methacrylate	50.0	46.8	0.410	0.100	-6.441	50.0	Quadratic	
Toluene	50.0	46.5	1.37	0.400	-7.061	50.0	Linear	
trans-1,3-Dichloropropene	50.0	45.8	0.394	0.100	-8.468	50.0	Quadratic	
2-Hexanone	0.187	0.167	0.167	0.100	-10.704	50.0	Averaged	
1,1,2-Trichloroethane	0.286	0.252	0.252	0.100	-11.719	50.0	Averaged	
1,3-Dichloropropane	0.568	0.511	0.511	0.100	-10.067	50.0	Averaged	
Dibromochloromethane	50.0	38.9	0.315	0.100	-22.162	50.0	Linear	
Tetrachloroethene	0.336	0.283	0.283	0.200	-15.528	50.0	Averaged	
1,2-Dibromoethane	50.0	44.6	0.344	0.100	-10.789	50.0	Linear	
1-Chlorohexane	50.0	45.4	0.275	0.100	-9.209	50.0	Linear	
Chlorobenzene	1.07	0.982	0.982	0.500	-7.829	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.336	0.354	0.354	0.100	5.37	50.0	Averaged	
Ethylbenzene	0.469	0.510	0.510	0.100	8.55	50.0	Averaged	
m,p-Xylenes	100	97.6	0.626	0.100	-2.418	50.0	Linear	
o-Xylene	50.0	49.2	0.616	0.300	-1.636	50.0	Linear	
Styrene	50.0	49.0	1.05	0.300	-1.976	50.0	Linear	
Bromoform	50.0	49.9	0.204	0.100	-0.294	50.0	Quadratic	
Isopropylbenzene	50.0	49.7	1.58	0.100	-0.668	50.0	Linear	
1,1,2,2-Tetrachloroethane	0.837	0.898	0.898	0.300	7.27	50.0	Averaged	
69 4-Bromofluorobenzene	50.0	50.9	0.479	0.100	1.78	50.0	Linear	
1,2,3-Trichloropropane	0.749	0.838	0.838	0.100	12.0	50.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	46.0	0.080	0.050	-8.010	50.0	Quadratic	
n-Propylbenzene	50.0	53.3	3.59	0.100	6.55	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID F041634.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID F041634.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 16-APR-2024 2324
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	50.7	0.851	0.100	1.48	50.0	Linear	
1,3,5-Trimethylbenzene	50.0	51.3	2.70	0.100	2.61	50.0	Linear	
2-Chlorotoluene	50.0	52.7	2.19	0.100	5.32	50.0	Linear	
4-Chlorotoluene	50.0	51.2	2.57	0.100	2.43	50.0	Linear	
tert-Butylbenzene	50.0	51.0	2.29	0.100	2.07	50.0	Linear	
1,2,4-Trimethylbenzene	50.0	50.9	2.61	0.100	1.88	50.0	Linear	
sec-Butylbenzene	50.0	48.5	3.04	0.100	-2.939	50.0	Linear	
p-Isopropyltoluene	50.0	48.1	2.70	0.100	-3.855	50.0	Linear	
1,3-Dichlorobenzene	1.41	1.46	1.46	0.600	3.95	50.0	Averaged	
1,4-Dichlorobenzene	1.61	1.51	1.51	0.400	-5.914	50.0	Averaged	
n-Butylbenzene	50.0	45.6	2.17	0.500	-8.892	50.0	Linear	
1,2-Dichlorobenzene	1.44	1.46	1.46	0.400	1.19	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	49.7	0.105	0.050	-0.665	50.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	52.5	0.931	0.200	4.99	50.0	Quadratic	
Hexachlorobutadiene	0.480	0.454	0.454	0.100	-5.329	50.0	Averaged	
Naphthalene	50.0	52.0	2.18	0.200	3.92	50.0	Linear	
1,2,3-Trichlorobenzene	50.0	50.5	0.873	0.100	0.925	50.0	Linear	
Methyl Acetate	0.494	0.472	0.472	0.100	-4.433	50.0	Averaged	
Freon TF	0.509	0.467	0.467	0.100	-8.389	50.0	Averaged	
Diethyl ether	0.592	0.598	0.598	0.100	1.12	50.0	Averaged	
Cyclohexane	50.0	49.5	0.680	0.100	-0.968	50.0	Linear	
Methylcyclohexane	50.0	46.2	0.353	0.100	-7.533	50.0	Linear	
n-Butanol	1000	1056	0.008	0.005	5.55	50.0	Quadratic	
Methyl Acrylate	50.0	47.4	0.440	0.100	-5.293	50.0	Linear	
Ethyl Acrylate	50.0	42.7	0.505	0.100	-14.513	50.0	Linear	
1,4-Dioxane	1000	1021	0.005	0.001	2.06	50.0	Quadratic	
n-Hexane	50.0	44.5	0.454	0.100	-10.993	50.0	Linear	
Tetrahydrofuran	100	106	0.130	0.001	6.49	50.0	Quadratic	
Tert-butyl alcohol	1000	1011	0.026	0.005	1.13	50.0	Quadratic	
Isopropyl alcohol	1000	986	0.020	0.005	-1.374	50.0	Quadratic	
4-Methyl-2-pentanol	1000	1001	0.043	0.005	0.147	50.0	Quadratic	
1,2,3-Trimethylbenzene	50.0	47.8	2.24	0.100	-4.327	50.0	Linear	
Ethanol	1000	1044	0.004	0.001	4.40	50.0	Quadratic	
1,3,5-Trichlorobenzene	50.0	52.5	0.931	0.100	4.99	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24040786

Project Longhorn GW Treatment Plant Monthly Effluent Samples

RunID F041634.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID F041634.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 16-APR-2024 2324
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	114	0.187	0.100	13.9	50.0	Quadratic	
3,3-Dimethyl-1-butanol	1000	997	0.022	0.005	-0.330	50.0	Quadratic	
tert-Amyl methyl ether	50.0	49.4	1.09	0.005	-1.109	50.0	Linear	
tert-Butyl ethyl ether	50.0	50.0	1.19	0.100	0.061	50.0	Linear	
2-Methylnaphthalene	50.0	53.7	0.782	0.100	7.47	50.0	Quadratic	
Diisopropyl ether	50.0	48.0	1.34	0.100	-4.058	50.0	Linear	
1-Methylnaphthalene	50.0	55.1	0.814	0.100	10.2	50.0	Quadratic	
Ethyl Acetate	50.0	47.6	0.841	0.100	-4.707	50.0	Linear	
tert-Amyl alcohol	1000	1144	0.019	0.005	14.4	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.480	0.490	0.490	0.200	2.11	50.0	Averaged	
95 Xylenes (total)	150	147	0.614	0.100	-2.158	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID G041602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID G041602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 17-APR-2024 0008
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.548	0.553	0.553	0.100	0.882	20.0	Averaged	
Chloromethane	0.965	0.841	0.841	0.100	-12.880	20.0	Averaged	
Propionitrile	0.126	0.138	0.138	0.010	9.30	20.0	Averaged	
Vinyl Chloride	0.533	0.537	0.537	0.100	0.805	20.0	Averaged	
Bromomethane	50.0	40.1	0.249	0.100	-19.876	20.0	Quadratic	
Chloroethane	0.343	0.336	0.336	0.100	-1.955	20.0	Averaged	
Trichlorofluoromethane	0.849	0.857	0.857	0.100	0.971	20.0	Averaged	
Dichlorofluoromethane	0.839	0.823	0.823	0.100	-1.966	20.0	Averaged	
Acrolein	100	155	0.074	0.010	55.1	20.0	Quadratic	*
Acetone	100	96.1	0.135	0.100	-3.896	20.0	Linear	
1,1-Dichloroethene	0.423	0.398	0.398	0.100	-5.833	20.0	Averaged	
Isobutyl Alcohol	1000	1072	0.008	0.005	7.20	20.0	Quadratic	
Acetonitrile	500	487	0.058	0.005	-2.603	20.0	Linear	
Allyl Chloride	50.0	47.3	1.15	0.100	-5.373	20.0	Linear	
Iodomethane	100	92.1	0.259	0.100	-7.943	20.0	Linear	
Acrylonitrile	100	92.4	0.179	0.050	-7.615	20.0	Linear	
Methylene Chloride	50.0	44.7	0.491	0.100	-10.515	20.0	Linear	
Methyl tert-butyl ether	50.0	47.0	1.14	0.100	-6.097	20.0	Linear	
Carbon Disulfide	1.29	1.23	1.23	0.100	-4.424	20.0	Averaged	
trans-1,2-Dichloroethene	0.464	0.456	0.456	0.100	-1.681	20.0	Averaged	
Vinyl Acetate	100	96.8	0.858	0.010	-3.246	20.0	Linear	
1,1-Dichloroethane	0.785	0.786	0.786	0.200	0.126	20.0	Averaged	
2-Butanone	100	98.6	0.185	0.100	-1.377	20.0	Linear	
Methacrylonitrile	0.372	0.357	0.357	0.100	-3.864	20.0	Averaged	
2,2-Dichloropropane	50.0	45.9	0.516	0.100	-8.294	20.0	Linear	
cis-1,2-Dichloroethene	0.496	0.525	0.525	0.100	5.69	20.0	Averaged	
Chloroform	0.906	0.877	0.877	0.200	-3.182	20.0	Averaged	
Bromochloromethane	0.275	0.243	0.243	0.100	-11.517	20.0	Averaged	
30 Dibromofluoromethane	50.0	45.8	0.447	0.100	-8.372	20.0	Linear	
1,1,1-Trichloroethane	0.715	0.782	0.782	0.100	9.30	20.0	Averaged	
1,1-Dichloropropene	0.395	0.403	0.403	0.100	2.04	20.0	Averaged	
1,2-Dichloroethane	0.521	0.490	0.490	0.100	-5.921	20.0	Averaged	
Carbon Tetrachloride	0.417	0.432	0.432	0.100	3.59	20.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	44.3	0.536	0.100	-11.312	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID G041602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID G041602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 17-APR-2024 0008
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.22	1.17	1.17	0.500	-4.461	20.0	Averaged	
Trichloroethene	0.366	0.390	0.390	0.200	6.65	20.0	Averaged	
Bromodichloromethane	0.419	0.420	0.420	0.200	0.198	20.0	Averaged	
Methyl Methacrylate	50.0	48.4	0.802	0.100	-3.290	20.0	Linear	
2-Chloroethylvinyl ether	100	89.6	0.184	0.001	-10.372	20.0	Linear	
1,2-Dichloropropane	0.314	0.310	0.310	0.100	-1.378	20.0	Averaged	
2-Nitropropane	0.523	0.579	0.579	0.000	10.7	20.0	Averaged	
Dibromomethane	0.228	0.223	0.223	0.100	-2.432	20.0	Averaged	
4-Methyl-2-Pentanone	100	108	0.280	0.100	8.11	20.0	Quadratic	
cis-1,3-Dichloropropene	50.0	45.6	0.479	0.200	-8.720	20.0	Linear	
48 Toluene-d8	50.0	47.5	1.12	0.100	-4.978	20.0	Quadratic	
Ethyl Methacrylate	50.0	52.4	0.463	0.100	4.80	20.0	Quadratic	
Toluene	50.0	46.5	1.37	0.400	-7.084	20.0	Linear	
trans-1,3-Dichloropropene	50.0	50.5	0.439	0.100	1.07	20.0	Quadratic	
2-Hexanone	0.187	0.192	0.192	0.100	2.81	20.0	Averaged	
1,1,2-Trichloroethane	0.286	0.280	0.280	0.100	-2.095	20.0	Averaged	
1,3-Dichloropropane	0.568	0.556	0.556	0.100	-2.142	20.0	Averaged	
Dibromochloromethane	50.0	42.3	0.345	0.100	-15.308	20.0	Linear	
Tetrachloroethene	0.336	0.317	0.317	0.200	-5.613	20.0	Averaged	
1,2-Dibromoethane	50.0	44.6	0.344	0.100	-10.849	20.0	Linear	
1-Chlorohexane	50.0	46.3	0.281	0.100	-7.409	20.0	Linear	
Chlorobenzene	1.07	0.984	0.984	0.500	-7.668	20.0	Averaged	
1,1,1,2-Tetrachloroethane	0.336	0.349	0.349	0.100	3.86	20.0	Averaged	
Ethylbenzene	0.469	0.489	0.489	0.100	4.20	20.0	Averaged	
m,p-Xylenes	100	94.7	0.607	0.100	-5.313	20.0	Linear	
o-Xylene	50.0	47.4	0.593	0.300	-5.201	20.0	Linear	
Styrene	50.0	47.6	1.02	0.300	-4.810	20.0	Linear	
Bromoform	50.0	51.5	0.212	0.100	2.93	20.0	Quadratic	
Isopropylbenzene	50.0	53.1	1.70	0.100	6.19	20.0	Linear	
1,1,2,2-Tetrachloroethane	0.837	0.836	0.836	0.300	-0.209	20.0	Averaged	
69 4-Bromofluorobenzene	50.0	54.8	0.516	0.100	9.58	20.0	Linear	
1,2,3-Trichloropropane	0.749	0.789	0.789	0.100	5.44	20.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	49.7	0.087	0.050	-0.535	20.0	Quadratic	
n-Propylbenzene	50.0	49.3	3.31	0.100	-1.330	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24040786

Project Longhorn GW Treatment Plant Monthly Effluent Samples

RunID G041602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID G041602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 17-APR-2024 0008
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	47.3	0.791	0.100	-5.362	20.0	Linear	
1,3,5-Trimethylbenzene	50.0	47.5	2.49	0.100	-4.951	20.0	Linear	
2-Chlorotoluene	50.0	48.6	2.01	0.100	-2.707	20.0	Linear	
4-Chlorotoluene	50.0	47.7	2.39	0.100	-4.692	20.0	Linear	
tert-Butylbenzene	50.0	48.1	2.16	0.100	-3.792	20.0	Linear	
1,2,4-Trimethylbenzene	50.0	48.1	2.46	0.100	-3.799	20.0	Linear	
sec-Butylbenzene	50.0	48.5	3.04	0.100	-2.987	20.0	Linear	
p-Isopropyltoluene	50.0	47.3	2.66	0.100	-5.323	20.0	Linear	
1,3-Dichlorobenzene	1.41	1.47	1.47	0.600	4.79	20.0	Averaged	
1,4-Dichlorobenzene	1.61	1.48	1.48	0.400	-7.926	20.0	Averaged	
n-Butylbenzene	50.0	46.4	2.21	0.500	-7.280	20.0	Linear	
1,2-Dichlorobenzene	1.44	1.45	1.45	0.400	0.964	20.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	53.8	0.115	0.050	7.68	20.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	54.3	0.966	0.200	8.67	20.0	Quadratic	
Hexachlorobutadiene	0.480	0.467	0.467	0.100	-2.699	20.0	Averaged	
Naphthalene	50.0	55.1	2.32	0.200	10.2	20.0	Linear	
1,2,3-Trichlorobenzene	50.0	52.7	0.912	0.100	5.39	20.0	Linear	
Methyl Acetate	0.494	0.479	0.479	0.100	-2.910	20.0	Averaged	
Freon TF	0.509	0.466	0.466	0.100	-8.448	20.0	Averaged	
Diethyl ether	0.592	0.628	0.628	0.100	6.08	20.0	Averaged	
Cyclohexane	50.0	49.9	0.685	0.100	-0.156	20.0	Linear	
Methylcyclohexane	50.0	50.7	0.386	0.100	1.35	20.0	Linear	
n-Butanol	1000	1247	0.009	0.005	24.7	20.0	Quadratic	*
Methyl Acrylate	50.0	47.7	0.443	0.100	-4.680	20.0	Linear	
Ethyl Acrylate	50.0	48.2	0.577	0.100	-3.603	20.0	Linear	
1,4-Dioxane	1000	1087	0.006	0.001	8.73	20.0	Quadratic	
n-Hexane	50.0	45.6	0.465	0.100	-8.849	20.0	Linear	
Tetrahydrofuran	100	110	0.134	0.001	9.56	20.0	Quadratic	
Tert-butyl alcohol	1000	1142	0.029	0.005	14.2	20.0	Quadratic	
Isopropyl alcohol	1000	1098	0.022	0.005	9.82	20.0	Quadratic	
4-Methyl-2-pentanol	1000	1159	0.051	0.005	15.9	20.0	Quadratic	
1,2,3-Trimethylbenzene	50.0	47.7	2.23	0.100	-4.695	20.0	Linear	
Ethanol	1000	1128	0.005	0.001	12.8	20.0	Quadratic	
1,3,5-Trichlorobenzene	50.0	54.3	0.966	0.100	8.67	20.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24040786

Project Longhorn GW Treatment Plant Monthly Effluent Samples

RunID G041602.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID G041602.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 17-APR-2024 0008
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	121	0.200	0.100	20.8	20.0	Quadratic	*
3,3-Dimethyl-1-butanol	1000	1082	0.024	0.005	8.20	20.0	Quadratic	
tert-Amyl methyl ether	50.0	50.5	1.11	0.005	0.943	20.0	Linear	
tert-Butyl ethyl ether	50.0	49.0	1.16	0.100	-2.078	20.0	Linear	
2-Methylnaphthalene	50.0	60.5	0.896	0.100	20.9	20.0	Quadratic	*
Diisopropyl ether	50.0	49.3	1.37	0.100	-1.402	20.0	Linear	
1-Methylnaphthalene	50.0	61.5	0.922	0.100	23.0	20.0	Quadratic	*
Ethyl Acetate	50.0	50.7	0.897	0.100	1.32	20.0	Linear	
tert-Amyl alcohol	1000	1213	0.020	0.005	21.3	20.0	Quadratic	*
94 1,2-Dichloroethylene (total	0.480	0.490	0.490	0.200	2.13	20.0	Averaged	
95 Xylenes (total)	150	142	0.584	0.100	-5.276	20.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID G041629.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID G041629.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 17-APR-2024 1030
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	0.548	0.456	0.456	0.100	-16.843	50.0	Averaged	
Chloromethane	0.965	0.774	0.774	0.100	-19.823	50.0	Averaged	
Propionitrile	0.126	0.127	0.127	0.010	0.461	50.0	Averaged	
Vinyl Chloride	0.533	0.447	0.447	0.100	-16.230	50.0	Averaged	
Bromomethane	50.0	33.7	0.210	0.100	-32.586	50.0	Quadratic	
Chloroethane	0.343	0.282	0.282	0.100	-17.804	50.0	Averaged	
Trichlorofluoromethane	0.849	0.721	0.721	0.100	-15.111	50.0	Averaged	
Dichlorofluoromethane	0.839	0.707	0.707	0.100	-15.742	50.0	Averaged	
Acrolein	100	140	0.066	0.010	39.9	50.0	Quadratic	
Acetone	100	85.2	0.119	0.100	-14.798	50.0	Linear	
1,1-Dichloroethene	0.423	0.344	0.344	0.100	-18.572	50.0	Averaged	
Isobutyl Alcohol	1000	908	0.007	0.005	-9.169	50.0	Quadratic	
Acetonitrile	500	404	0.048	0.005	-19.203	50.0	Linear	
Allyl Chloride	50.0	41.6	1.01	0.100	-16.816	50.0	Linear	
Iodomethane	100	56.6	0.144	0.100	-43.402	50.0	Linear	
Acrylonitrile	100	83.4	0.161	0.050	-16.562	50.0	Linear	
Methylene Chloride	50.0	39.9	0.439	0.100	-20.120	50.0	Linear	
Methyl tert-butyl ether	50.0	38.9	0.927	0.100	-22.186	50.0	Linear	
Carbon Disulfide	1.29	1.02	1.02	0.100	-20.579	50.0	Averaged	
trans-1,2-Dichloroethene	0.464	0.395	0.395	0.100	-14.938	50.0	Averaged	
Vinyl Acetate	100	82.8	0.729	0.010	-17.219	50.0	Linear	
1,1-Dichloroethane	0.785	0.691	0.691	0.200	-11.923	50.0	Averaged	
2-Butanone	100	84.9	0.158	0.100	-15.075	50.0	Linear	
Methacrylonitrile	0.372	0.258	0.258	0.100	-30.744	50.0	Averaged	
2,2-Dichloropropane	50.0	32.1	0.350	0.100	-35.828	50.0	Linear	
cis-1,2-Dichloroethene	0.496	0.484	0.484	0.100	-2.564	50.0	Averaged	
Chloroform	0.906	0.781	0.781	0.200	-13.807	50.0	Averaged	
Bromochloromethane	0.275	0.230	0.230	0.100	-16.310	50.0	Averaged	
30 Dibromofluoromethane	50.0	45.1	0.440	0.100	-9.800	50.0	Linear	
1,1,1-Trichloroethane	0.715	0.709	0.709	0.100	-0.922	50.0	Averaged	
1,1-Dichloropropene	0.395	0.397	0.397	0.100	0.510	50.0	Averaged	
1,2-Dichloroethane	0.521	0.500	0.500	0.100	-3.998	50.0	Averaged	
Carbon Tetrachloride	0.417	0.420	0.420	0.100	0.709	50.0	Averaged	
35 1,2-Dichloroethane-d4	50.0	42.2	0.510	0.100	-15.570	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID G041629.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID G041629.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 17-APR-2024 1030
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.22	1.22	1.22	0.500	-0.699	50.0	Averaged	
Trichloroethene	0.366	0.334	0.334	0.200	-8.605	50.0	Averaged	
Bromodichloromethane	0.419	0.396	0.396	0.200	-5.408	50.0	Averaged	
Methyl Methacrylate	50.0	43.2	0.711	0.100	-13.545	50.0	Linear	
2-Chloroethylvinyl ether	100	82.8	0.169	0.001	-17.181	50.0	Linear	
1,2-Dichloropropane	0.314	0.303	0.303	0.100	-3.785	50.0	Averaged	
2-Nitropropane	0.523	0.487	0.487	0.000	-6.925	50.0	Averaged	
Dibromomethane	0.228	0.217	0.217	0.100	-5.093	50.0	Averaged	
4-Methyl-2-Pentanone	100	107	0.277	0.100	7.09	50.0	Quadratic	
cis-1,3-Dichloropropene	50.0	42.1	0.440	0.200	-15.748	50.0	Linear	
48 Toluene-d8	50.0	51.1	1.21	0.100	2.15	50.0	Quadratic	
Ethyl Methacrylate	50.0	48.7	0.428	0.100	-2.656	50.0	Quadratic	
Toluene	50.0	48.2	1.42	0.400	-3.503	50.0	Linear	
trans-1,3-Dichloropropene	50.0	45.8	0.394	0.100	-8.354	50.0	Quadratic	
2-Hexanone	0.187	0.182	0.182	0.100	-2.981	50.0	Averaged	
1,1,2-Trichloroethane	0.286	0.276	0.276	0.100	-3.386	50.0	Averaged	
1,3-Dichloropropane	0.568	0.544	0.544	0.100	-4.355	50.0	Averaged	
Dibromochloromethane	50.0	40.4	0.327	0.100	-19.232	50.0	Linear	
Tetrachloroethene	0.336	0.283	0.283	0.200	-15.624	50.0	Averaged	
1,2-Dibromoethane	50.0	44.0	0.339	0.100	-11.939	50.0	Linear	
1-Chlorohexane	50.0	42.5	0.258	0.100	-15.056	50.0	Linear	
Chlorobenzene	1.07	0.960	0.960	0.500	-9.878	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.336	0.328	0.328	0.100	-2.253	50.0	Averaged	
Ethylbenzene	0.469	0.462	0.462	0.100	-1.531	50.0	Averaged	
m,p-Xylenes	100	93.0	0.596	0.100	-7.017	50.0	Linear	
o-Xylene	50.0	45.4	0.567	0.300	-9.241	50.0	Linear	
Styrene	50.0	46.5	0.991	0.300	-7.067	50.0	Linear	
Bromoform	50.0	44.7	0.182	0.100	-10.663	50.0	Quadratic	
Isopropylbenzene	50.0	45.7	1.45	0.100	-8.624	50.0	Linear	
1,1,2,2-Tetrachloroethane	0.837	0.748	0.748	0.300	-10.668	50.0	Averaged	
69 4-Bromofluorobenzene	50.0	46.0	0.433	0.100	-8.017	50.0	Linear	
1,2,3-Trichloropropane	0.749	0.697	0.697	0.100	-6.963	50.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	42.2	0.073	0.050	-15.670	50.0	Quadratic	
n-Propylbenzene	50.0	43.0	2.88	0.100	-13.914	50.0	Linear	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID G041629.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID G041629.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 17-APR-2024 1030
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	50.0	41.8	0.695	0.100	-16.407	50.0	Linear	
1,3,5-Trimethylbenzene	50.0	44.0	2.30	0.100	-11.902	50.0	Linear	
2-Chlorotoluene	50.0	42.7	1.76	0.100	-14.530	50.0	Linear	
4-Chlorotoluene	50.0	44.6	2.23	0.100	-10.875	50.0	Linear	
tert-Butylbenzene	50.0	44.4	1.98	0.100	-11.204	50.0	Linear	
1,2,4-Trimethylbenzene	50.0	44.5	2.27	0.100	-11.093	50.0	Linear	
sec-Butylbenzene	50.0	42.5	2.64	0.100	-15.083	50.0	Linear	
p-Isopropyltoluene	50.0	44.9	2.52	0.100	-10.183	50.0	Linear	
1,3-Dichlorobenzene	1.41	1.32	1.32	0.600	-6.220	50.0	Averaged	
1,4-Dichlorobenzene	1.61	1.43	1.43	0.400	-11.000	50.0	Averaged	
n-Butylbenzene	50.0	42.3	2.00	0.500	-15.435	50.0	Linear	
1,2-Dichlorobenzene	1.44	1.42	1.42	0.400	-1.567	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	48.4	0.102	0.050	-3.202	50.0	Quadratic	
1,2,4-Trichlorobenzene	50.0	49.7	0.879	0.200	-0.520	50.0	Quadratic	
Hexachlorobutadiene	0.480	0.412	0.412	0.100	-14.071	50.0	Averaged	
Naphthalene	50.0	51.1	2.14	0.200	2.12	50.0	Linear	
1,2,3-Trichlorobenzene	50.0	49.1	0.850	0.100	-1.700	50.0	Linear	
Methyl Acetate	0.494	0.433	0.433	0.100	-12.384	50.0	Averaged	
Freon TF	0.509	0.398	0.398	0.100	-21.798	50.0	Averaged	
Diethyl ether	0.592	0.531	0.531	0.100	-10.174	50.0	Averaged	
Cyclohexane	50.0	45.2	0.622	0.100	-9.526	50.0	Linear	
Methylcyclohexane	50.0	44.8	0.342	0.100	-10.397	50.0	Linear	
n-Butanol	1000	926	0.007	0.005	-7.377	50.0	Quadratic	
Methyl Acrylate	50.0	42.4	0.392	0.100	-15.159	50.0	Linear	
Ethyl Acrylate	50.0	38.7	0.452	0.100	-22.619	50.0	Linear	
1,4-Dioxane	1000	939	0.005	0.001	-6.140	50.0	Quadratic	
n-Hexane	50.0	34.1	0.344	0.100	-31.798	50.0	Linear	
Tetrahydrofuran	100	96.0	0.116	0.001	-3.953	50.0	Quadratic	
Tert-butyl alcohol	1000	886	0.022	0.005	-11.392	50.0	Quadratic	
Isopropyl alcohol	1000	880	0.017	0.005	-12.005	50.0	Quadratic	
4-Methyl-2-pentanol	1000	1023	0.044	0.005	2.33	50.0	Quadratic	
1,2,3-Trimethylbenzene	50.0	46.4	2.17	0.100	-7.270	50.0	Linear	
Ethanol	1000	879	0.004	0.001	-12.132	50.0	Quadratic	
1,3,5-Trichlorobenzene	50.0	49.7	0.879	0.100	-0.520	50.0	Quadratic	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

RunID G041629.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa11.i
Lab File ID G041629.D
Analysis Type WATER
Lab Sample ID CCV_END

Injection Date 17-APR-2024 1030
ICAL Date(s) 16-APR-2024, 16-APR-2024
ICAL Times 11:36, 14:55
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
tert-Butyl formate	100	100	0.161	0.100	-0.393	50.0	Quadratic	
3,3-Dimethyl-1-butanol	1000	951	0.020	0.005	-4.881	50.0	Quadratic	
tert-Amyl methyl ether	50.0	42.5	0.922	0.005	-14.949	50.0	Linear	
tert-Butyl ethyl ether	50.0	40.9	0.956	0.100	-18.281	50.0	Linear	
2-Methylnaphthalene	50.0	50.0	0.719	0.100	-0.095	50.0	Quadratic	
Diisopropyl ether	50.0	43.5	1.21	0.100	-12.946	50.0	Linear	
1-Methylnaphthalene	50.0	52.7	0.775	0.100	5.49	50.0	Quadratic	
Ethyl Acetate	50.0	44.1	0.776	0.100	-11.708	50.0	Linear	
tert-Amyl alcohol	1000	1001	0.016	0.005	0.051	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.480	0.439	0.439	0.200	-8.543	50.0	Averaged	
95 Xylenes (total)	150	138	0.562	0.100	-7.758	50.0	Linear	

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

05/22/2024

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 Monthly Effluent Samples

Workorder HS24040786

EPA SW8260

VOA11_464219		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	F041614.D	588003	#	4.86	#	861300	#	5.59	#	766974	#	8.22	#	408271	#	10.2	#
HS24040786-01	F041628.D	423331		4.86		761449		5.59		619579		8.21		343909		10.2	
VBLKW-240416	F041618.D	486943		4.86		759762		5.59		675289		8.21		403917		10.2	
VLCSDW-240416	F041616.D	533459		4.86		801202		5.59		803157		8.21		433223		10.2	
VLCSW-240416	F041615.D	534076		4.86		836443		5.59		781086		8.21		456487		10.2	
MS-ZZZZZZMS	F041632.D	523400		4.86		813115		5.59		752479		8.21		425725		10.2	
ZZZZZZMSD	F041633.D	588667		4.86		811150		5.59		736223		8.21		470079		10.2	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of STD IS RT
CCV - Continuing Calibration Verification

- Area or RT Limit Flag
* - Value Outside Area or RT limits
H - Hour STD - Standard

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder HS24040786

EPA SW8260

VOA11_464254		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	G041602.D	560092	#	4.86	#	870473	#	5.59	#	843256	#	8.21	#	500013	#	10.2	#
HS24040786-03	G041607.D	560340		4.86		771194		5.59		693925		8.21		441414		10.2	
VBLKW-240416	G041606.D	564738		4.86		867510		5.59		821792		8.21		425007		10.2	
VLCSDW-240416	G041604.D	601786		4.85		865973		5.59		738334		8.21		449247		10.2	
VLCSW-240416	G041603.D	597237		4.85		894123		5.59		807032		8.21		426888		10.2	
MS-ZZZZZZMS	G041627.D	572347		4.86		825858		5.59		725347		8.21		412009		10.2	
ZZZZZZMSD	G041628.D	584517		4.86		847360		5.59		756856		8.21		429665		10.2	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of 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 Volatiles Organics by Method 8260C

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

05/22/2024

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.	Workorder	
Project	Longhorn GW Treatment Plant Monthly Effluent Samples	**HS24040786**	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID
VOA11-464218

Run ID VOA11_464218 **Start Date** 04/16/24 **EndDate** 04/16/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
11:36	VSTD00.25	ICAL1	VSTD00.25	F041602.D	04/16/24	1
11:58	VSTD00.5	ICAL2	VSTD00.5	F041603.D	04/16/24	1
12:20	VSTD001	ICAL3	VSTD001	F041604.D	04/16/24	1
12:42	VSTD002	ICAL4	VSTD002	F041605.D	04/16/24	1
13:04	VSTD005	ICAL5	VSTD005	F041606.D	04/16/24	1
13:26	VSTD010	ICAL6	VSTD010	F041607.D	04/16/24	1
13:49	VSTD020	ICAL7	VSTD020	F041608.D	04/16/24	1
14:11	VSTD050	ICAL8	VSTD050	F041609.D	04/16/24	1
14:33	VSTD100	ICAL9	VSTD100	F041610.D	04/16/24	1
14:55	VSTD200	ICAL	VSTD200	F041611.D	04/16/24	1
15:39	VSTD050	ICV	VSTD050	F041613.D	04/16/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder **HS24040786**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA11-464219

Run ID VOA11_464219 **Start Date** 04/16/24 **EndDate** 04/16/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
16:01	VSTD050	CCV	VSTD050	F041614.D	04/16/24	1
16:23	VLCSW-240416	LCS	VLCSW-240416	F041615.D	04/16/24	1
16:46	VLCSDW-240416	LCSD	VLCSDW-240416	F041616.D	04/16/24	1
17:30	VBLKW-240416	MBLK	VBLKW-240416	F041618.D	04/16/24	1
17:52	HS24040371-02	SAMP	ZZZZZZZZZZ	F041619.D	04/16/24	1
18:14	HS24040371-01	SAMP	ZZZZZZZZZZ	F041620.D	04/16/24	1
18:36	HS24040405-05	SAMP	ZZZZZZZZZZ	F041621.D	04/16/24	1
18:58	HS24040371-02	SAMP	ZZZZZZZZZZ	F041622.D	04/16/24	1
19:20	HS24040435-02	SAMP	ZZZZZZZZZZ	F041623.D	04/16/24	1
19:42	HS24040436-02	SAMP	ZZZZZZZZZZ	F041624.D	04/16/24	1
20:05	HS24040435-01	SAMP	ZZZZZZZZZZ	F041625.D	04/16/24	1
20:27	HS24040436-01	SAMP	ZZZZZZZZZZ	F041626.D	04/16/24	1
20:49	HS24040505-01	SAMP	ZZZZZZZZZZ	F041627.D	04/16/24	10000
21:11	HS24040786-01	SAMP	LH18/24-	F041628.D	04/16/24	1
21:33	HS24040905-01	SAMP	ZZZZZZZZZZ	F041629.D	04/16/24	1
21:55	HS24040905-03	SAMP	ZZZZZZZZZZ	F041630.D	04/16/24	1
22:17	HS24040905-04	SAMP	ZZZZZZZZZZ	F041631.D	04/16/24	1
22:39	HS24040905-04MS	MS	ZZZZZZMS	F041632.D	04/16/24	1
23:02	HS24040905-04MSD	MSD	ZZZZZZMSD	F041633.D	04/16/24	1
23:24	CCV_END	CCV_END	CCV_END	F041634.D	04/16/24	1

Form 13 - Analysis Run Log

Client Bhate Environmental Associates, Inc.

Project Longhorn GW Treatment Plant Monthly Effluent Samples

Workorder **HS24040786**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA11-464254

Run ID VOA11_464254 **Start Date** 04/17/24 **EndDate** 04/17/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
00:08	VSTD050	CCV	VSTD050	G041602.D	04/17/24	1
00:52	VLCSW-240416	LCS	VLCSW-240416	G041603.D	04/17/24	1
01:14	VLCSDW-240416	LCSD	VLCSDW-240416	G041604.D	04/17/24	1
01:59	VBLKW-240416	MBLK	VBLKW-240416	G041606.D	04/17/24	1
02:21	HS24040786-03	SAMP	Trip Blank	G041607.D	04/17/24	1
02:43	HS24040905-05	SAMP	ZZZZZZZZZZ	G041608.D	04/17/24	1
03:05	HS24040905-06	SAMP	ZZZZZZZZZZ	G041609.D	04/17/24	1
03:27	HS24040905-07	SAMP	ZZZZZZZZZZ	G041610.D	04/17/24	1
03:49	HS24040905-08	SAMP	ZZZZZZZZZZ	G041611.D	04/17/24	1
04:11	HS24040905-09	SAMP	ZZZZZZZZZZ	G041612.D	04/17/24	1
04:34	HS24040905-11	SAMP	ZZZZZZZZZZ	G041613.D	04/17/24	1
04:58	HS24040905-02	SAMP	ZZZZZZZZZZ	G041614.D	04/17/24	5
07:33	HS24040918-14	SAMP	ZZZZZZZZZZ	G041621.D	04/17/24	1
09:46	HS24040918-14MS	MS	ZZZZZZMS	G041627.D	04/17/24	1
10:08	HS24040918-14MSD	MSD	ZZZZZZMSD	G041628.D	04/17/24	1
10:30	CCV_END	CCV_END	CCV_END	G041629.D	04/17/24	1

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RawData

<textMethods>

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

05/22/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
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Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041601B.D Page 1
Report Date: 16-Apr-2024 12:27

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041601B.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 16-APR-2024 11:14
Operator : FT Inst ID: voa11.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\bfb.m
Meth Date : 26-Sep-2023 10:41 firat.tast 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: NAHSTW7142

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		
9.220	9.280	(0.000)	95	151744			0.00- 100.00	100.00
9.220	9.280	(0.000)	50	29280			15.00- 40.00	19.30
9.220	9.280	(0.000)	75	80024			30.00- 60.00	52.74
9.220	9.280	(0.000)	96	10327			5.00- 9.00	6.81
9.220	9.280	(0.000)	173	833			0.00- 2.00	0.67
9.220	9.280	(0.000)	174	124792			50.00- 0.00	82.24
9.220	9.280	(0.000)	175	9474			5.00- 9.00	7.59
9.220	9.280	(0.000)	176	119312			95.00- 101.00	95.61
9.220	9.280	(0.000)	177	8273			5.00- 9.00	6.93

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.30
75	30.00 - 60.00% of mass 95	52.74
96	5.00 - 9.00% of mass 95	6.81
173	Less than 2.00% of mass 174	0.55 (0.67)
174	Greater than 50.00% of mass 95	82.24
175	5.00 - 9.00% of mass 174	6.24 (7.59)
176	95.00 - 101.00% of mass 174	78.63 (95.61)
177	5.00 - 9.00% of mass 176	5.45 (6.93)

Data File: F041601B.D
Spectrum: Scan 2301 (9.21)
Location of Maximum: 95.00
Number of points: 84

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1730	64.10	1045	91.90	5028	139.90	182
37.00	7586	65.10	699	93.00	7282	140.90	1769
38.00	6183	66.80	326	94.00	19256	141.80	258
39.00	2424	68.00	16496	95.00	151744	142.80	2047
40.00	700	69.00	15599	96.00	10327	144.80	247
44.00	1412	69.90	1250	96.90	215	145.80	230
45.00	1438	72.00	728	103.90	867	147.70	482
45.80	187	73.00	7405	104.70	381	149.60	255
47.00	1428	74.00	27576	105.80	616	154.90	590
48.00	1102	75.00	80024	110.60	243	156.90	271
49.00	5654	76.00	6934	112.80	190	158.60	254
50.00	29280	77.00	778	115.00	170	160.80	207
51.00	8717	77.90	700	115.90	954	171.80	898
51.90	700	78.90	6859	116.90	1149	172.90	833
54.90	495	79.90	1695	117.80	816	173.90	124792
56.00	2226	80.90	6887	118.90	938	174.90	9474
57.00	4754	81.90	1544	127.70	460	175.90	119312
58.10	350	82.80	156	128.90	360	176.90	8273
60.00	1551	86.00	172	129.80	496		
61.00	7983	87.00	5515	130.90	221		
62.00	8150	88.00	5381	134.80	390		
63.00	6072	90.80	823	136.80	427		

Data File: \\NAHSTWS005\Target\chem\voa11.i\f240416.b\f041601.d Page 1

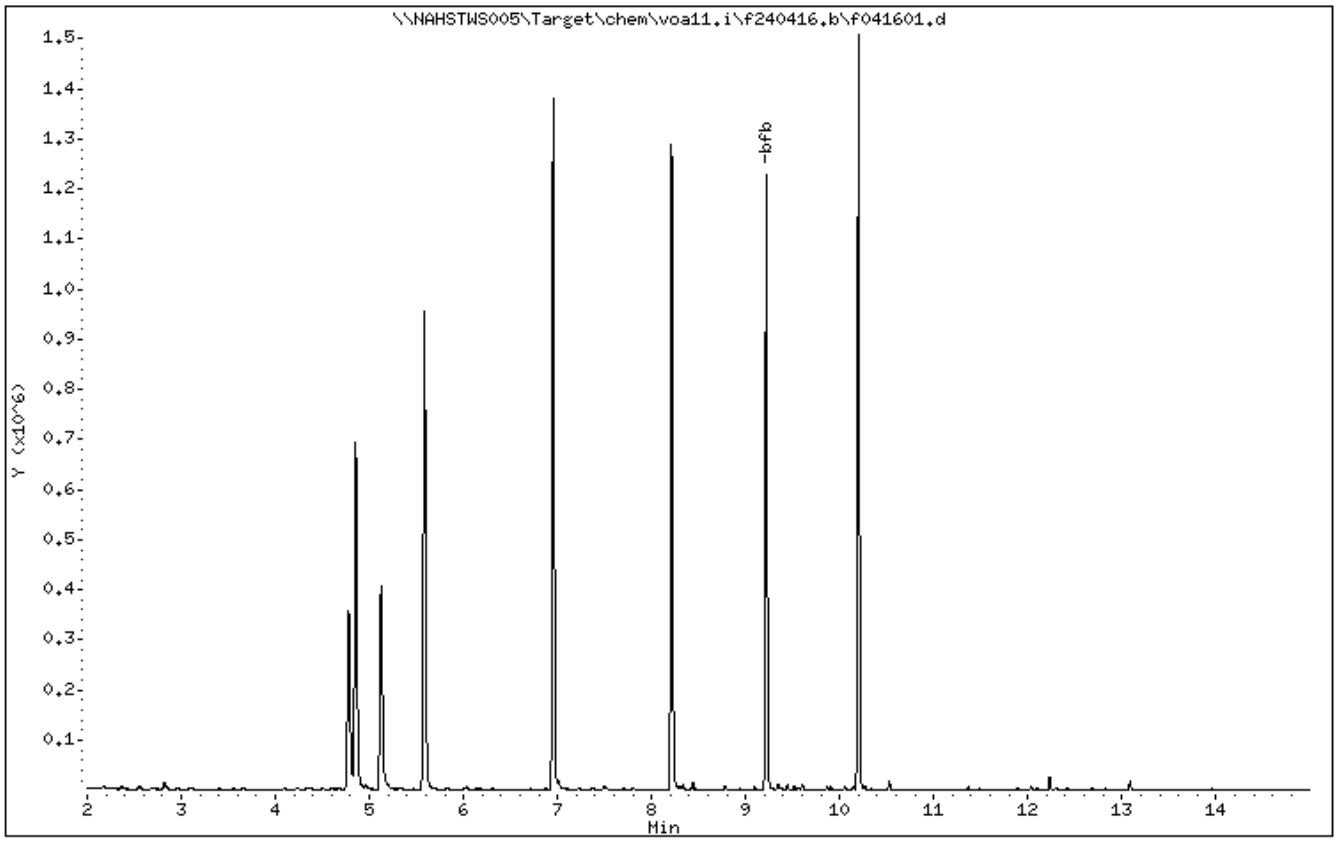
Date : 16-APR-2024 11:14

Client ID: BFB Instrument: voa11.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



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Inj Date : 16-APR-2024 11:14
InstruID : voa11.i
LabSampID : BFB

 NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041602.D Page 1
Report Date: 22-Apr-2024 09:34

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041602.D
Lab Smp Id: VSTD00.25 Client Smp ID: VSTD00.25
Inj Date : 16-APR-2024 11:36
Operator : FT Inst ID: voa11.i
Smp Info : VSTD00.25;VSTD00.25;1;1;
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 09:34 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:33 Cal File: F041610.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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

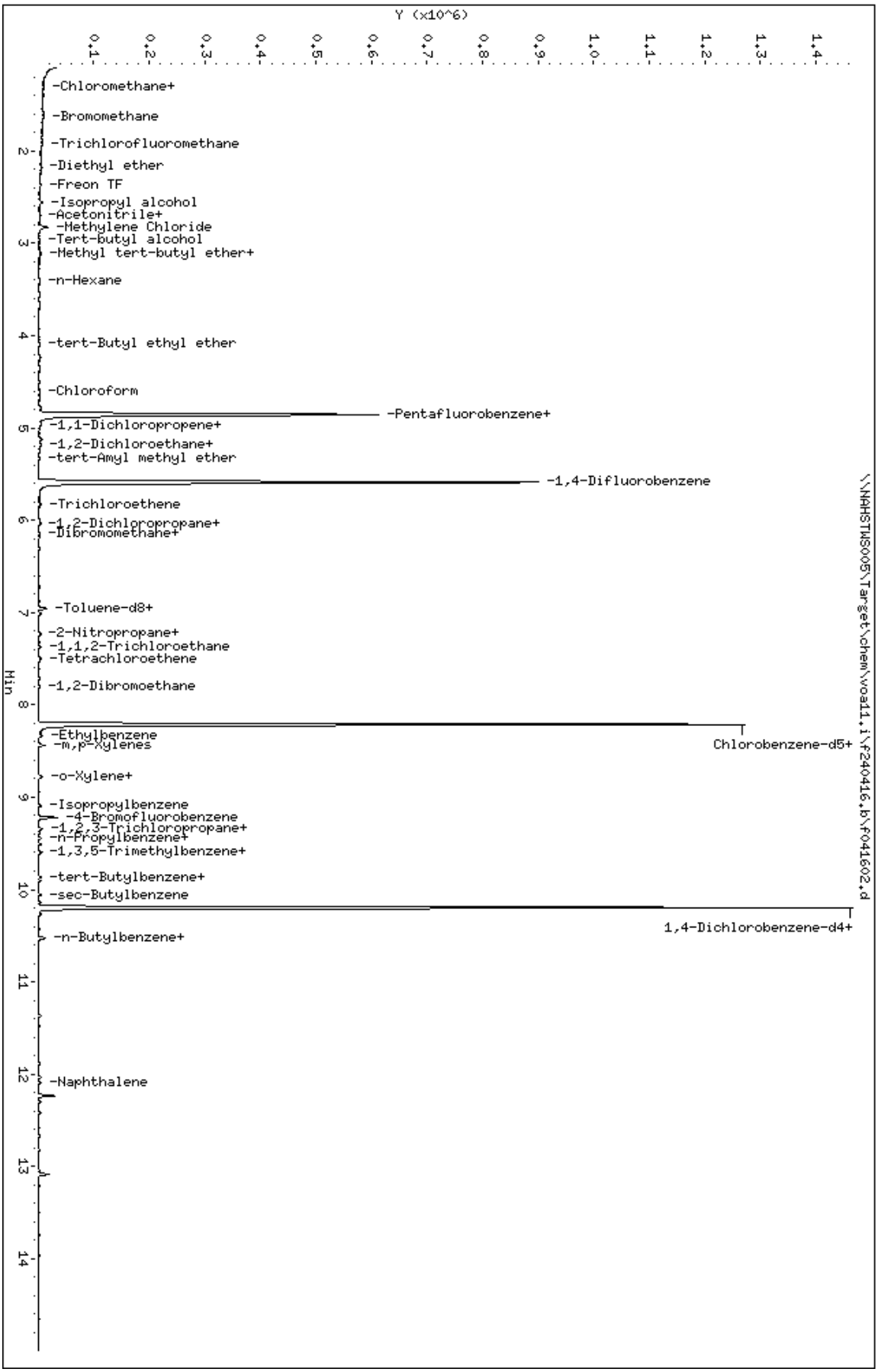
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
*	1 Pentafluorobenzene	168	4.856	4.856	(1.000)	395969	50.0000	
	3 Chloromethane	50	1.306	1.306	(0.269)	3577	0.25000	0.46(a)
	12 Isobutyl Alcohol	43	4.845	4.845	(0.998)	980	5.00000	1.23(Ta)
	13 Acetonitrile	39	2.701	2.701	(0.556)	1166	2.50000	13.45
	14 Allyl Chloride	41	2.694	2.694	(0.555)	3205	0.25000	2.54
	17 Methylene Chloride	84	2.828	2.828	(0.582)	7635	0.25000	1.49(a)
	18 Methyl tert-butyl ether	73	3.121	3.121	(0.643)	1617	0.25000	3.50
$	30 Dibromofluoromethane	113	4.778	4.778	(0.984)	2567	0.25000	0.98(a)
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	4225	0.25000	0.99(a)
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	626795	50.0000	
	37 Benzene	78	5.179	5.179	(0.927)	4039	0.25000	0.26(a)
	38 Trichloroethene	130	5.831	5.831	(1.044)	1106	0.25000	0.24(a)
	43 2-Nitropropane	43	7.229	7.229	(1.489)	731	0.25000	0.17(a)
*	47 Chlorobenzene-d5	117	8.212	8.212	(1.000)	570490	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	7917	0.25000	(a)
	50 Toluene	91	7.016	7.016	(0.854)	2833	0.25000	0.88(a)
	57 1,2-Dibromoethane	107	7.807	7.807	(0.951)	717	0.25000	1.41
	58 1-Chlorohexane	55	8.208	8.208	(1.469)	6037	0.25000	1.33
	59 Chlorobenzene	112	8.234	8.234	(1.003)	3088	0.25000	0.25(a)
	62 m,p-Xylenes	106	8.437	8.437	(1.027)	2287	0.50000	0.60(a)

63 o-Xylene	106	8.778	8.778 (1.069)	1114	0.25000	1.38
64 Styrene	104	8.785	8.785 (1.070)	1392	0.25000	1.13

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
	67 Isopropylbenzene	105	9.093	9.093	(1.107)	2976	0.25000	1.35
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	8051	0.25000	1.65
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	303651	50.0000	
	73 n-Propylbenzene	91	9.445	9.445	(0.926)	3376	0.25000	1.55
	74 Bromobenzene	156	9.344	9.344	(0.916)	920	0.25000	2.02
	75 1,3,5-Trimethylbenzene	105	9.591	9.591	(0.940)	1761	0.25000	1.60
	76 2-Chlorotoluene	91	9.512	9.512	(0.933)	2001	0.25000	1.46
	77 4-Chlorotoluene	91	9.606	9.606	(0.942)	2327	0.25000	1.02
	78 tert-Butylbenzene	119	9.869	9.869	(0.968)	1645	0.25000	2.21
	79 1,2,4-Trimethylbenzene	105	9.906	9.906	(0.971)	1749	0.25000	1.81
	81 sec-Butylbenzene	105	10.060	10.060	(0.986)	3085	0.25000	2.11
	82 p-Isopropyltoluene	119	10.180	10.180	(0.998)	2288	0.25000	2.05
	87 n-Butylbenzene	91	10.525	10.525	(1.032)	3798	0.25000	2.46
	92 Naphthalene	128	12.095	12.095	(1.186)	2569	0.25000	1.85
	141 Cyclohexane	56	4.856	4.856	(1.000)	8835	0.25000	1.15(a)
	135 1,4-Dioxane	88	6.195	6.195	(1.276)	47	5.00000	11.46(M)
	136 n-Hexane	57	3.402	3.402	(0.701)	779	0.25000	1.60(T)
	148 Tert-butyl alcohol	59	2.971	2.971	(0.612)	690	5.00000	29.63
	149 Isopropyl alcohol	45	2.577	2.577	(0.531)	643	5.00000	25.80(T)
	166 1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	2485	0.25000	1.72
	174 tert-Amyl methyl ether	73	5.325	5.325	(1.096)	1082	0.25000	4.13(T)
	175 tert-Butyl ethyl ether	59	4.096	4.096	(0.843)	1563	0.25000	3.56(T)

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\voa11.i\f240416.b\f041602.d
Date : 16-APR-2024 11:36
Client ID: VSTD00.25
Sample Info: VSTD00.25;VSTD00.25;1;1;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

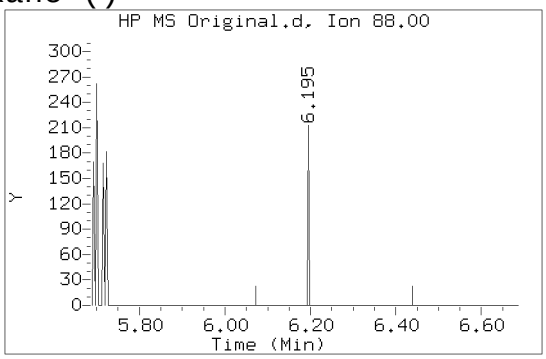
Data File : \\nahstws005\target\chem\voa11.i\f240416.b\f041602.d
Inj Date : 16-APR-2024 11:36
InstruID : voa11.i
LabSampID : VSTD00.25

1,4-Dioxane ()

Reason Code:

BEFORE

MASS
88
AREA
47
HEIGHT
213
22-Apr-2024
09:34
salina
zaid



AFTER

MASS
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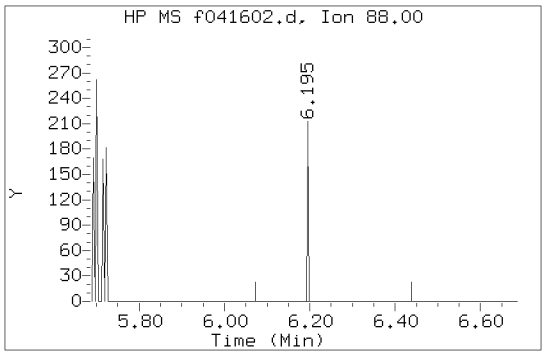
AREA
47
HEIGHT
213
22-Apr-2024
09:34
salina
zaid



BEFORE

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22-Apr-2024
09:34
salina
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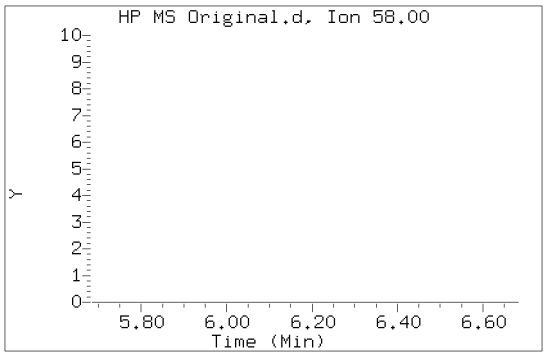

AFTER

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HEIGHT
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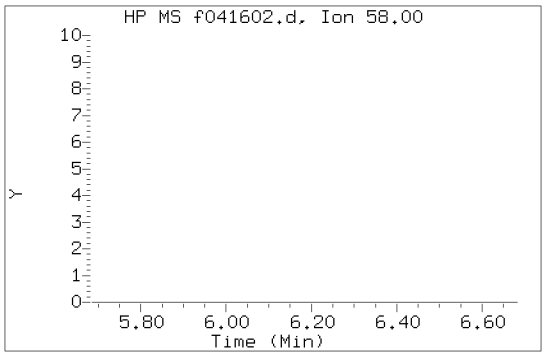
22-Apr-2024
09:34
salina
zaid



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D Page 1
Report Date: 22-Apr-2024 09:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 16-APR-2024 11:58
Operator : FT Inst ID: voa11.i
Smp Info : VSTD00.5;VSTD00.5;1;2;
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 09:22 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 11:36 Cal File: F041602.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.856	4.856	(1.000)	406933	50.0000	
2 Dichlorodifluoromethane	85	1.175	1.175	(0.242)	2509	0.50000	0.56(a)
3 Chloromethane	50	1.306	1.306	(0.269)	5267	0.50000	0.67(a)
4 Propionitrile	54	4.343	4.343	(0.894)	4097	5.00000	3.98(a)
5 Vinyl Chloride	62	1.389	1.389	(0.286)	2510	0.50000	0.57(a)
8 Trichlorofluoromethane	101	1.925	1.925	(0.396)	3892	0.50000	0.56(a)
158 Dichlorofluoromethane	67	1.876	1.876	(0.386)	3852	0.50000	0.56(aM)
9 Acrolein	56	2.285	2.285	(0.471)	113	1.00000	3.39(M)
10 Acetone	43	2.424	2.424	(0.499)	2499	1.00000	5.87(M)
11 1,1-Dichloroethene	96	2.364	2.364	(0.487)	1766	0.50000	0.51(a)
12 Isobutyl Alcohol	43	5.246	5.246	(1.080)	1063	10.0000	2.20(TaM)
13 Acetonitrile	39	2.697	2.697	(0.555)	1137	5.00000	13.33
14 Allyl Chloride	41	2.697	2.697	(0.555)	3237	0.50000	2.54
15 Iodomethane	142	2.491	2.491	(0.513)	921	1.00000	12.63(T)
16 Acrylonitrile	53	3.080	3.080	(0.634)	913	1.00000	4.69
17 Methylene Chloride	84	2.825	2.825	(0.582)	6925	0.50000	1.29(a)
18 Methyl tert-butyl ether	73	3.125	3.125	(0.643)	2958	0.50000	3.63
19 Carbon Disulfide	76	2.555	2.555	(0.526)	10624	1.00000	1.01(a)
20 trans-1,2-Dichloroethene	96	3.098	3.098	(0.638)	1703	0.50000	0.45(a)
21 Vinyl Acetate	43	3.664	3.664	(0.755)	4800	1.00000	4.81(M)

22 1,1-Dichloroethane	63	3.556	3.556 (0.732)	3040	0.50000	0.47(Ta)
24 2-Butanone	43	4.294	4.294 (0.884)	1119	1.00000	6.38(M)

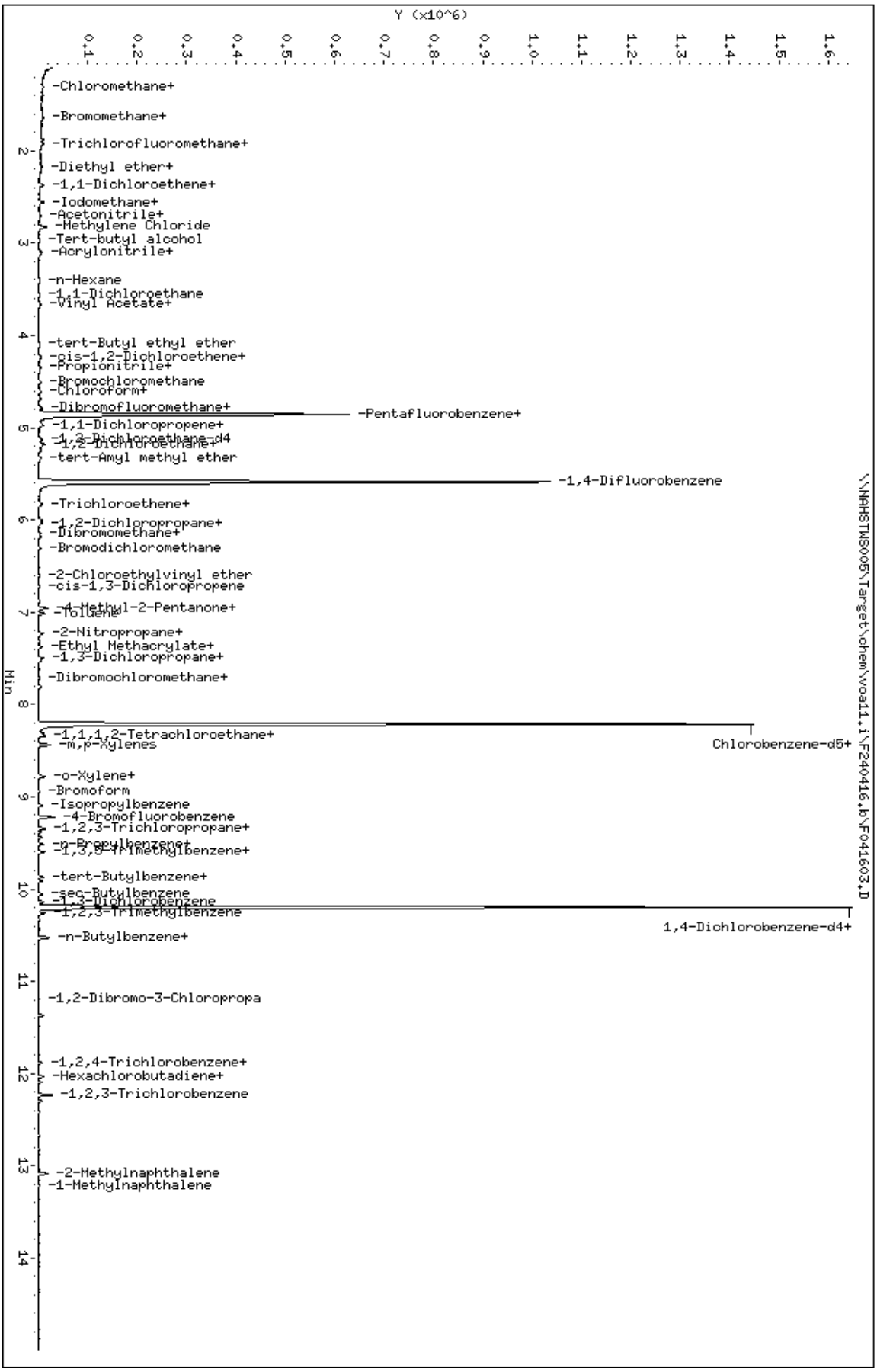
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	25 Methacrylonitrile	41	4.223	4.223	(0.870)	1579	0.50000	0.52(aM)
	26 2,2-Dichloropropane	77	4.223	4.223	(0.870)	1558	0.50000	3.50(M)
	27 cis-1,2-Dichloroethene	96	4.227	4.227	(0.870)	1732	0.50000	0.42(a)
	28 Chloroform	83	4.605	4.605	(0.948)	3817	0.50000	0.51(a)
	29 Bromochloromethane	128	4.500	4.500	(0.927)	1171	0.50000	0.52(a)
$	30 Dibromofluoromethane	113	4.785	4.785	(0.985)	3057	0.50000	1.09
	31 1,1,1-Trichloroethane	97	4.785	4.785	(0.985)	2480	0.50000	0.42(a)
	32 1,1-Dichloropropene	75	4.976	4.976	(0.891)	2588	0.50000	0.43(a)
	33 1,2-Dichloroethane	62	5.205	5.205	(0.932)	3796	0.50000	0.48(a)
	34 Carbon Tetrachloride	117	4.958	4.958	(0.887)	2338	0.50000	0.37(a)
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	5570	0.50000	1.24
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	751861	50.0000	
	37 Benzene	78	5.175	5.175	(0.926)	8687	0.50000	0.47(a)
	38 Trichloroethene	130	5.831	5.831	(1.044)	2722	0.50000	0.49(a)
	39 Bromodichloromethane	83	6.303	6.303	(1.128)	2528	0.50000	0.40(aM)
	40 Methyl Methacrylate	41	6.184	6.184	(1.273)	1732	0.50000	3.32(M)
	41 2-Chloroethylvinyl ether	63	6.603	6.603	(1.182)	934	1.00000	6.35(M)
	42 1,2-Dichloropropane	63	6.041	6.041	(1.081)	2146	0.50000	0.45(a)
	43 2-Nitropropane	43	7.233	7.233	(1.489)	2534	0.50000	0.59(a)
	44 Dibromomethane	93	6.150	6.150	(1.101)	1543	0.50000	0.44(a)
	45 4-Methyl-2-Pentanone	43	6.877	6.877	(0.837)	1737	1.00000	1.94(a)
	46 cis-1,3-Dichloropropene	75	6.723	6.723	(1.203)	1801	0.50000	3.06(M)
*	47 Chlorobenzene-d5	117	8.215	8.215	(1.000)	670887	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	10541	0.50000	(a)
	49 Ethyl Methacrylate	69	7.316	7.316	(1.309)	1136	0.50000	1.69
	50 Toluene	91	7.012	7.012	(0.854)	6158	0.50000	1.02
	51 trans-1,3-Dichloropropene	75	7.226	7.226	(1.293)	1234	0.50000	1.94(M)
	52 2-Hexanone	43	7.233	7.233	(0.880)	2534	1.00000	1.00(a)
	53 1,1,2-Trichloroethane	83	7.376	7.376	(0.898)	1591	0.50000	0.41(a)
	54 1,3-Dichloropropane	76	7.518	7.518	(0.915)	2986	0.50000	0.39(a)
	55 Dibromochloromethane	129	7.713	7.713	(0.939)	1391	0.50000	3.28
	56 Tetrachloroethene	164	7.496	7.496	(0.912)	1833	0.50000	0.40(a)
	57 1,2-Dibromoethane	107	7.810	7.810	(0.951)	1472	0.50000	1.53
	58 1-Chlorohexane	55	8.215	8.215	(1.470)	7722	0.50000	1.44
	59 Chlorobenzene	112	8.234	8.234	(1.002)	7275	0.50000	0.50(a)
	60 1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	1866	0.50000	0.41(a)
	61 Ethylbenzene	106	8.339	8.339	(1.015)	2318	0.50000	0.36(a)
	62 m,p-Xylenes	106	8.436	8.436	(1.027)	5345	1.00000	0.91(a)
	63 o-Xylene	106	8.778	8.778	(1.068)	2130	0.50000	1.48
	64 Styrene	104	8.789	8.789	(1.070)	2978	0.50000	1.22
	66 Bromoform	173	8.939	8.939	(1.088)	924	0.50000	0.97(aM)
	67 Isopropylbenzene	105	9.096	9.096	(1.107)	4927	0.50000	1.41
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.122)	8131	0.50000	1.44
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	353161	50.0000	
	71 1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	2235	0.50000	0.42(a)
	73 n-Propylbenzene	91	9.441	9.441	(0.926)	5364	0.50000	1.61
	74 Bromobenzene	156	9.340	9.340	(0.916)	1884	0.50000	2.15
	75 1,3,5-Trimethylbenzene	105	9.599	9.599	(0.941)	3465	0.50000	1.68
	76 2-Chlorotoluene	91	9.512	9.512	(0.933)	4360	0.50000	1.59
	77 4-Chlorotoluene	91	9.602	9.602	(0.942)	4225	0.50000	1.10
	78 tert-Butylbenzene	119	9.868	9.868	(0.968)	3714	0.50000	2.32
	79 1,2,4-Trimethylbenzene	105	9.906	9.906	(0.971)	4148	0.50000	1.92

81 sec-Butylbenzene	105	10.056	10.056 (0.986)	5077	0.50000	2.18
82 p-Isopropyltoluene	119	10.180	10.180 (0.998)	4483	0.50000	2.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	4141	0.50000	0.41(a)
84	1,4-Dichlorobenzene	146	10.221	10.221	(1.002)	6344	0.50000	0.55(a)
87	n-Butylbenzene	91	10.528	10.528	(1.032)	5230	0.50000	2.50
88	1,2-Dichlorobenzene	146	10.536	10.536	(1.033)	4247	0.50000	0.41(a)
89	1,2-Dibromo-3-Chloropropane	155	11.192	11.192	(1.097)	245	0.50000	1.31(M)
92	Naphthalene	128	12.095	12.095	(1.186)	4265	0.50000	1.93
93	1,2,3-Trichlorobenzene	180	12.294	12.294	(1.205)	2261	0.50000	0.52(a)
146	Methyl acetate	43	2.735	2.735	(0.563)	2545	0.50000	0.63(aM)
138	Freon TF	101	2.375	2.375	(0.489)	2174	0.50000	0.52(a)
139	Diethyl ether	59	2.172	2.172	(0.447)	2692	0.50000	0.55(Ta)
141	Cyclohexane	56	4.856	4.856	(1.000)	10403	0.50000	1.39(a)
132	n-Butanol	56	5.839	5.839	(1.202)	378	10.0000	38.09(M)
131	Methyl Acrylate	55	4.392	4.392	(0.904)	1048	0.50000	2.63(M)
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	1048	0.50000	4.67(M)
135	1,4-Dioxane	88	6.195	6.195	(1.276)	146	10.0000	13.86(M)
136	n-Hexane	57	3.406	3.406	(0.701)	1271	0.50000	1.71(T)
142	Tetrahydrofuran	42	4.583	4.583	(0.944)	726	1.00000	2.92(M)
148	Tert-butyl alcohol	59	2.971	2.971	(0.612)	1662	10.0000	34.43
149	Isopropyl alcohol	45	2.562	2.562	(0.528)	1340	10.0000	30.16(T)
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	2936	10.0000	29.93
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	5207	0.50000	1.86
170	1,3,5-Trichlorobenzene	180	11.885	11.885	(1.165)	2461	0.50000	0.42(a)
172	tert-Butyl formate	59	5.246	5.246	(1.080)	1185	1.00000	3.01(M)
174	tert-Amyl methyl ether	73	5.329	5.329	(1.097)	2628	0.50000	4.29
175	tert-Butyl ethyl ether	59	4.092	4.092	(0.843)	2098	0.50000	3.61(T)
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	845	0.50000	3.36
156	Diisopropyl ether	45	3.664	3.664	(0.755)	3402	0.50000	1.56(M)
180	1-Methylnaphthalene	142	13.216	13.216	(1.296)	1133	0.50000	2.35
130	Ethyl Acetate	43	4.373	4.373	(0.900)	3016	0.50000	3.08(aM)
176	tert-Amyl alcohol	59	5.246	5.246	(1.080)	1185	10.0000	30.70

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5;1;2;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

\\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D

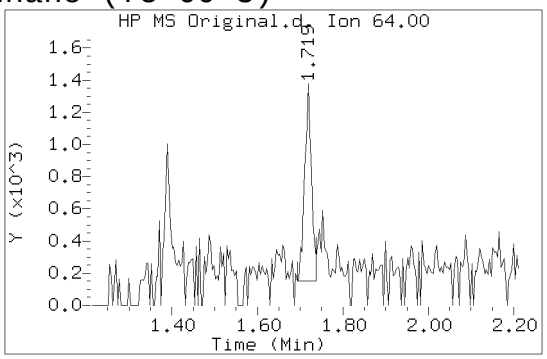
Page 1

Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Chloroethane (75-00-3)

Reason Code:

BEFORE
MASS
64
AREA
1369
HEIGHT
1226
22-Apr-2024
09:21
salina
zaid



AFTER
MASS
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AREA
1369
HEIGHT
1226
22-Apr-2024
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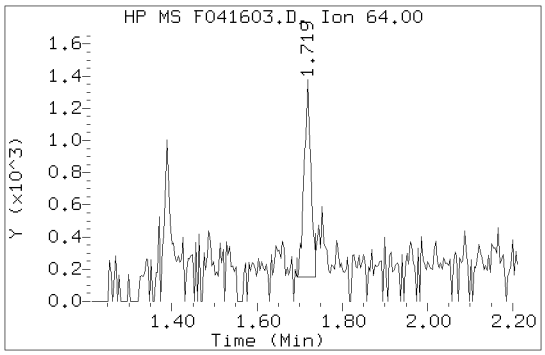

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09:21
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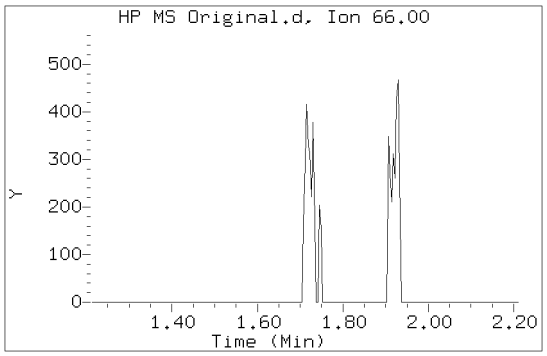

AFTER
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22-Apr-2024
09:21
salina
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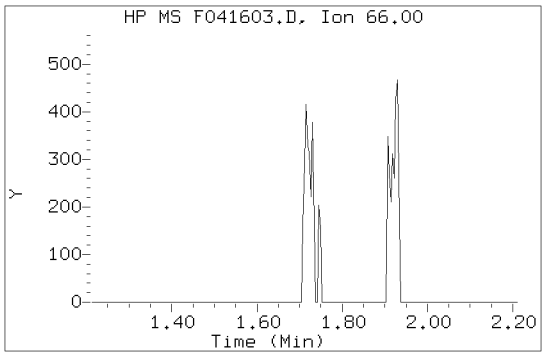

Acrolein (107-02-8)

Reason Code:

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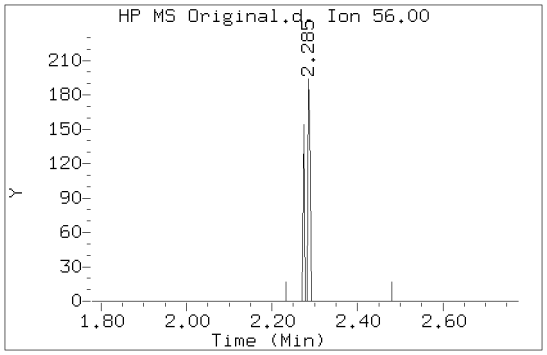
AREA
113
HEIGHT
194
22-Apr-2024
09:21
salina
zaid



AFTER
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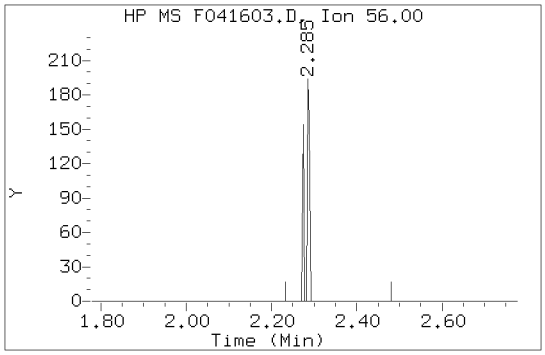
AREA
113
HEIGHT
194
22-Apr-2024
09:21
salina
zaid



BEFORE
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AREA
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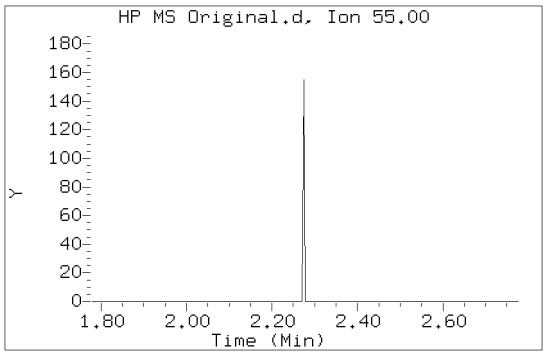
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER
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AREA
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HEIGHT
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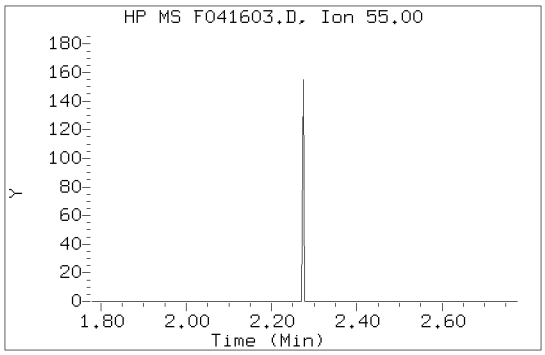
22-Apr-2024
09:21
salina
zaid



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InstruID : voa11.i
LabSampID : VSTD00.5

Acetone (67-64-1)

Reason Code:

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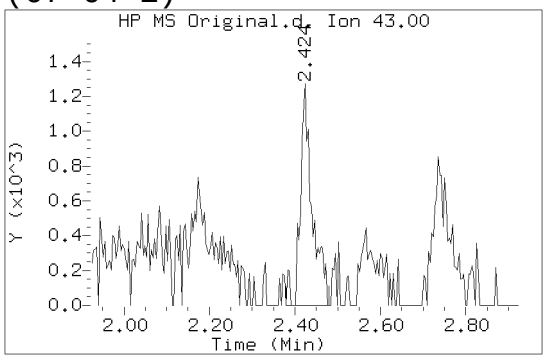
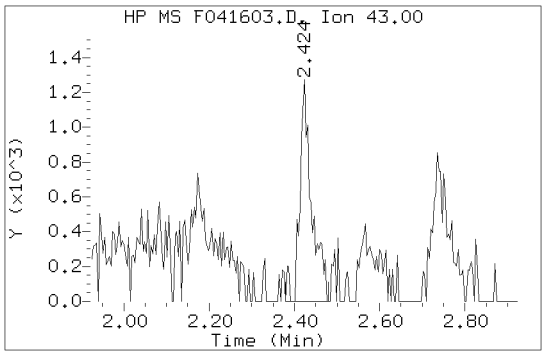
AREA
2499
HEIGHT
1273
22-Apr-2024
09:21
salina
zaid



AFTER
MASS
43
AREA
2499
HEIGHT
1273
22-Apr-2024
09:21
salina
zaid



BEFORE
MASS
58
AREA
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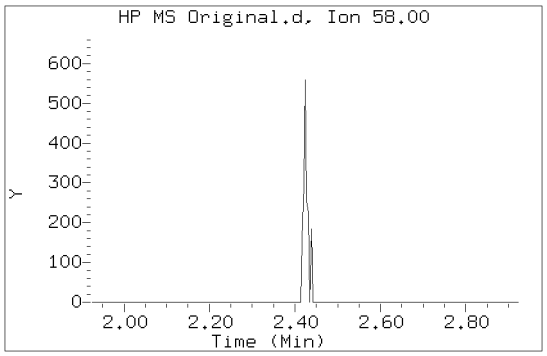
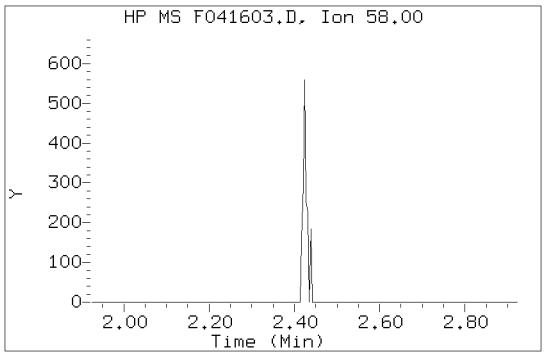
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER
MASS
58
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE
MASS
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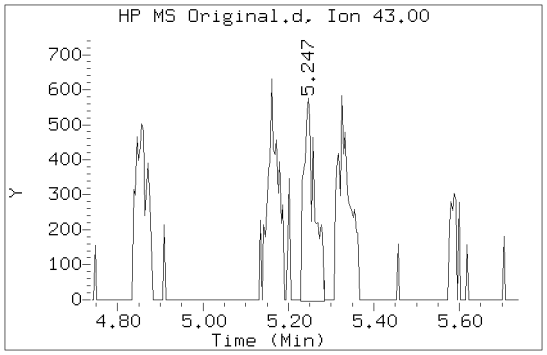
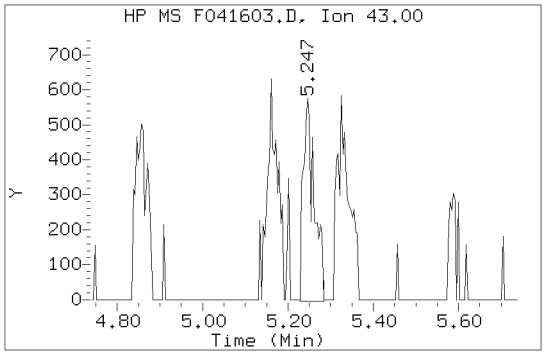
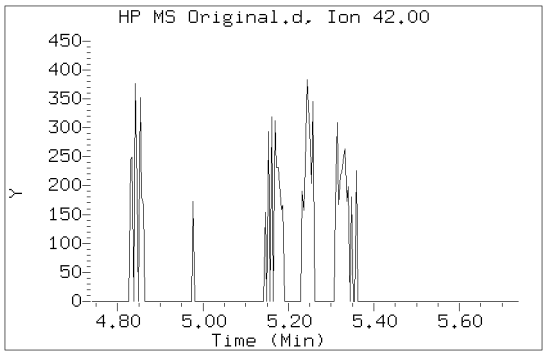
AREA
1063
HEIGHT
580
22-Apr-2024
09:21
salina
zaid



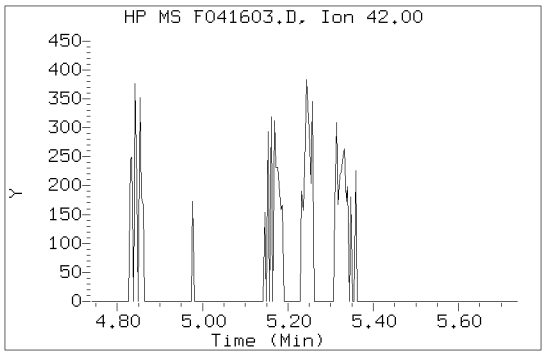
AFTER
MASS
43
AREA
1063
HEIGHT
580
22-Apr-2024
09:21
salina
zaid



BEFORE
MASS
42
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER
MASS
42
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



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Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE

MASS
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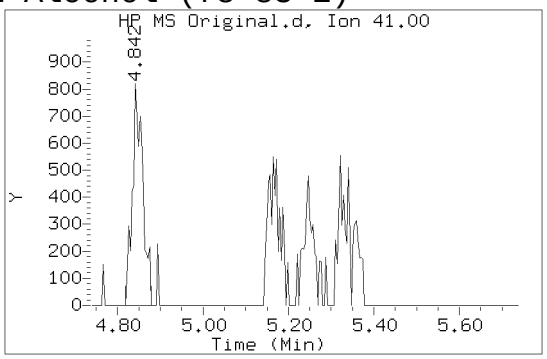
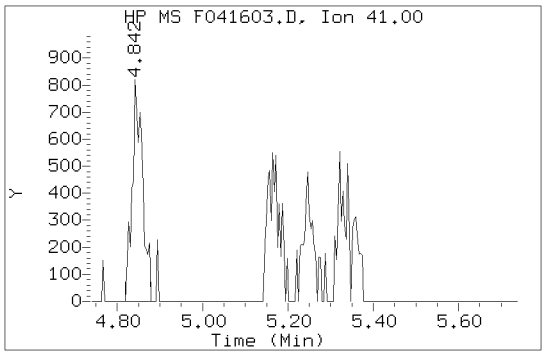
AREA
1381
HEIGHT
820
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
41
AREA
1381
HEIGHT
820
22-Apr-2024
09:21
salina
zaid

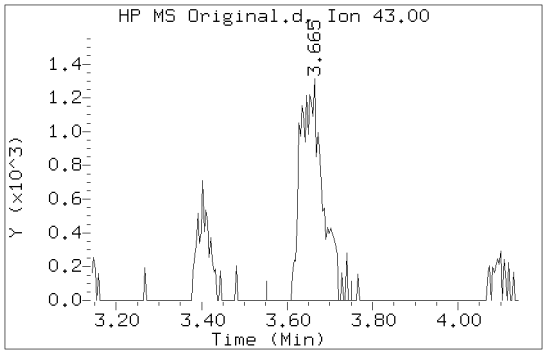


Vinyl Acetate (108-05-4)

Reason Code:

BEFORE

MASS
43
AREA
4800
HEIGHT
1314
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
43
AREA
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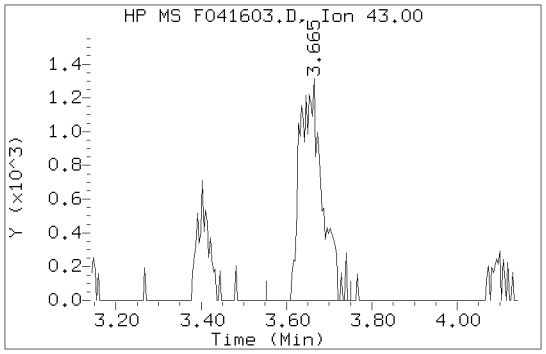
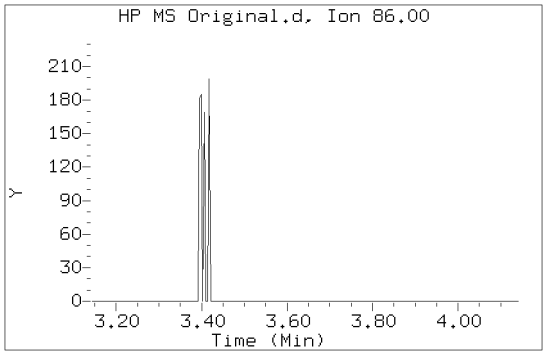
HEIGHT
1314
22-Apr-2024
09:21
salina
zaid



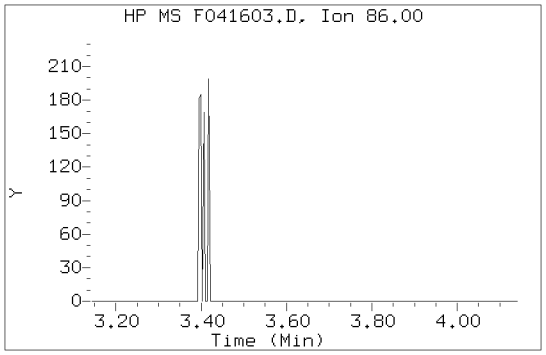
BEFORE

MASS
86
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
86
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



2-Butanone (78-93-3)

Reason Code:

BEFORE

MASS
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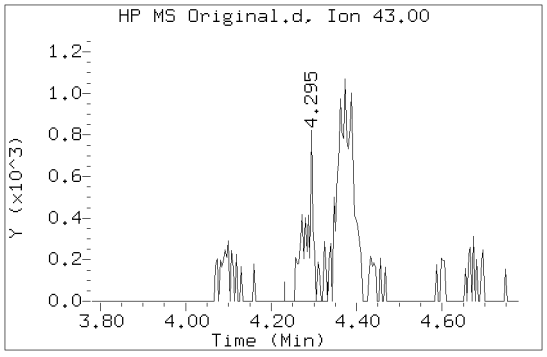
AREA
1119
HEIGHT
822
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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AREA
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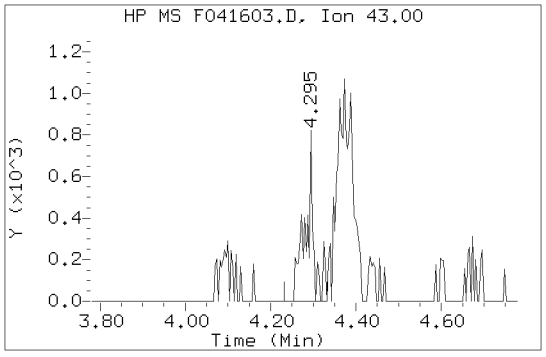
HEIGHT
822
22-Apr-2024
09:21
salina
zaid



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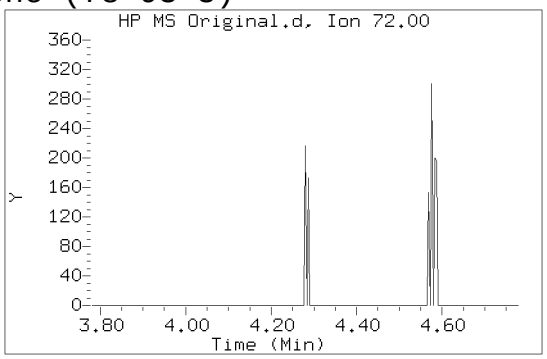
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

2-Butanone (78-93-3)

Reason Code:

BEFORE

MASS
72
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

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22-Apr-2024
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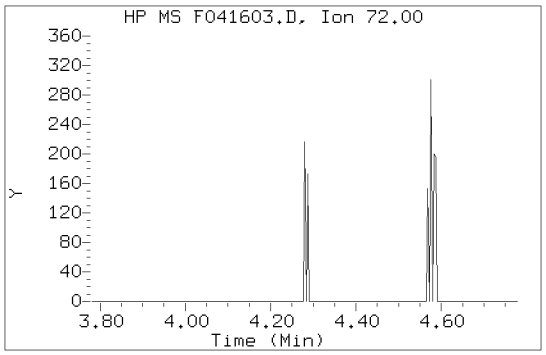

Methacrylonitrile (126-98-7)

Reason Code:

BEFORE

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AREA
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HEIGHT
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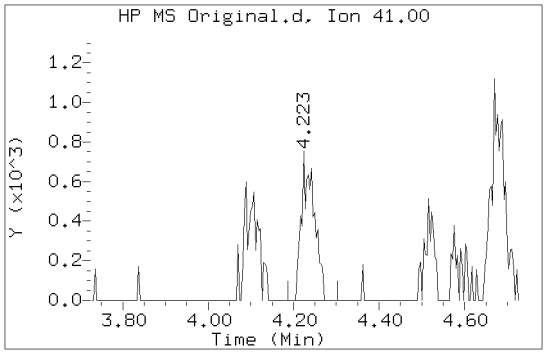
22-Apr-2024
09:21
salina
zaid



AFTER

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09:21
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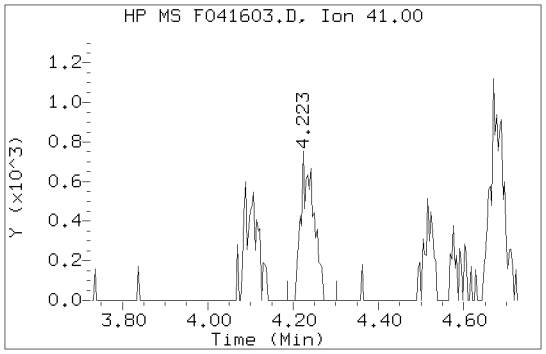

BEFORE

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67
AREA
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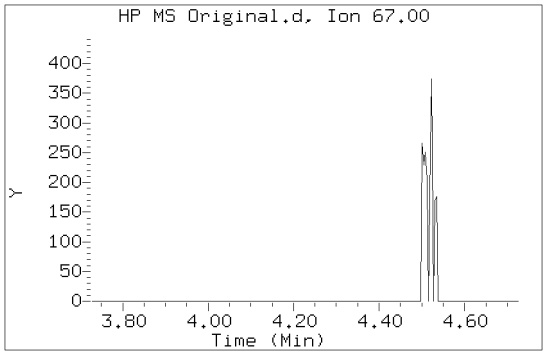
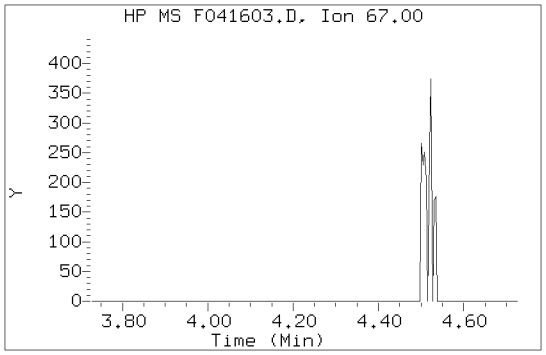
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
67
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



BEFORE

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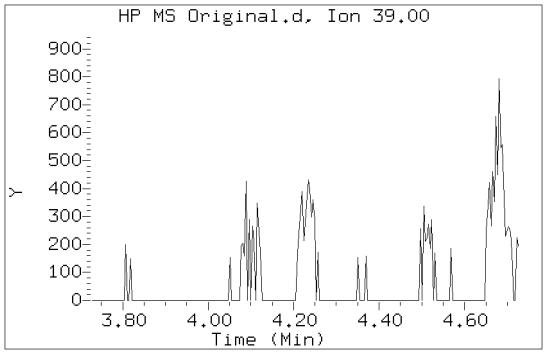
22-Apr-2024
09:21
salina
zaid



AFTER

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HEIGHT
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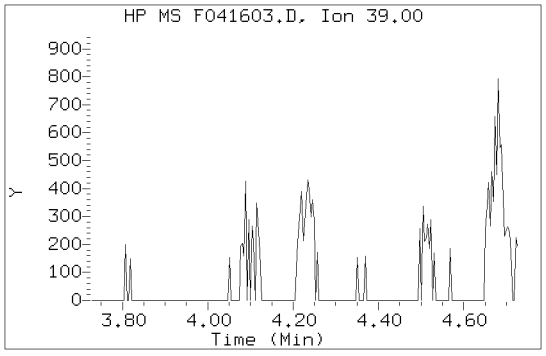
22-Apr-2024
09:21
salina
zaid



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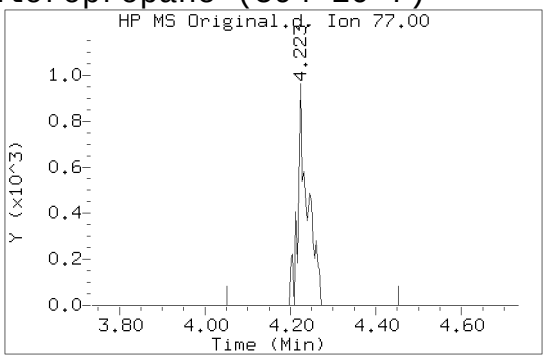
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

2,2-Dichloropropane (594-20-7)

Reason Code:

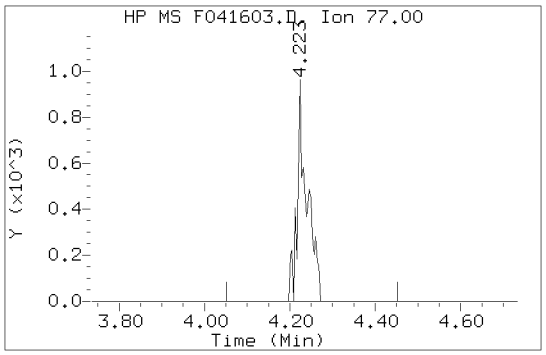
BEFORE

MASS
77
AREA
1558
HEIGHT
963
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
77
AREA
1558
HEIGHT
963
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
97
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306
HEIGHT
284
22-Apr-2024
09:21
salina
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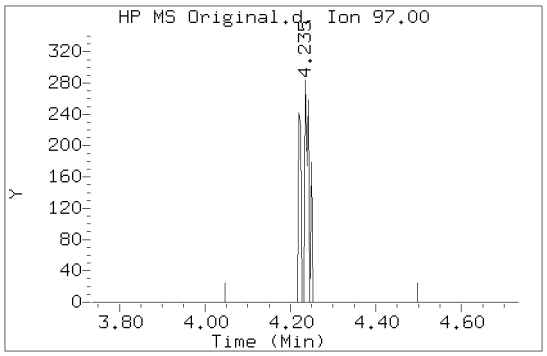
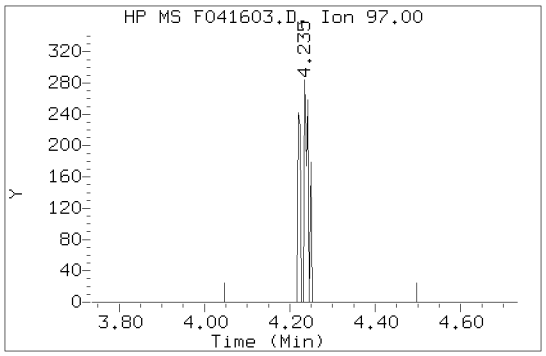


AFTER

MASS
97
AREA
306
HEIGHT
284
22-Apr-2024
09:21
salina
zaid

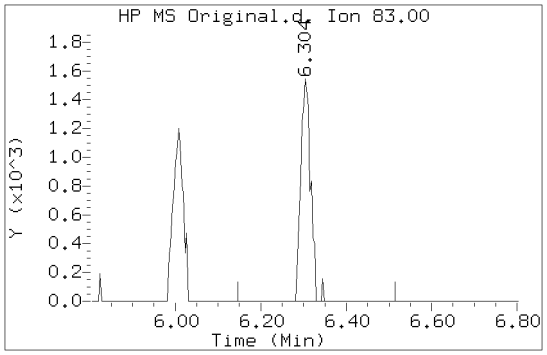


Bromodichloromethane (75-27-4)

Reason Code:

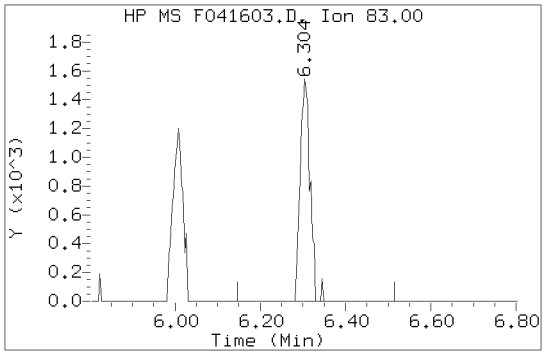
BEFORE

MASS
83
AREA
2528
HEIGHT
1544
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
83
AREA
2528
HEIGHT
1544
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
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AREA
1604
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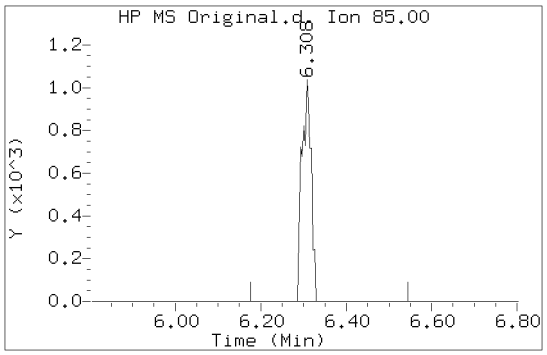
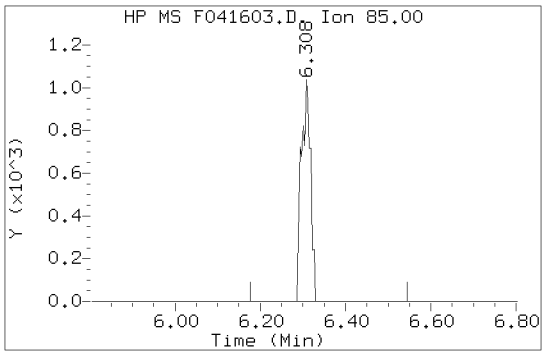
1037
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
85
AREA
1604
HEIGHT
1037
22-Apr-2024
09:21
salina
zaid



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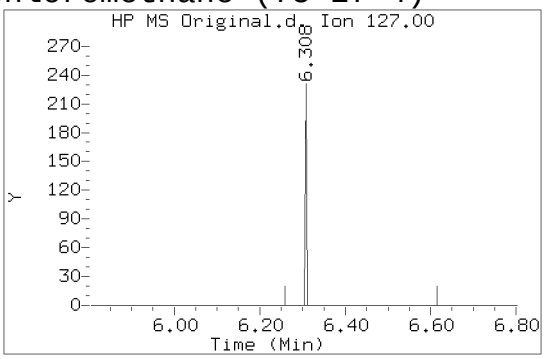
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Bromodichloromethane (75-27-4)

Reason Code:

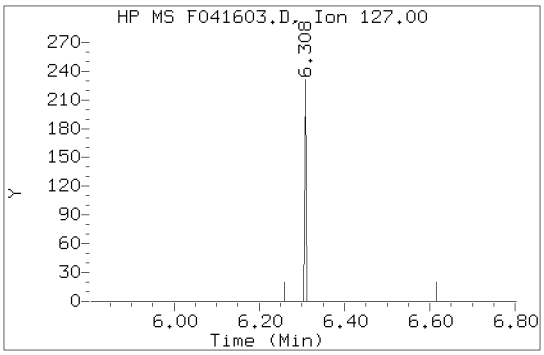
BEFORE

MASS
127
AREA
51
HEIGHT
231
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
127
AREA
51
HEIGHT
231
22-Apr-2024
09:21
salina
zaid

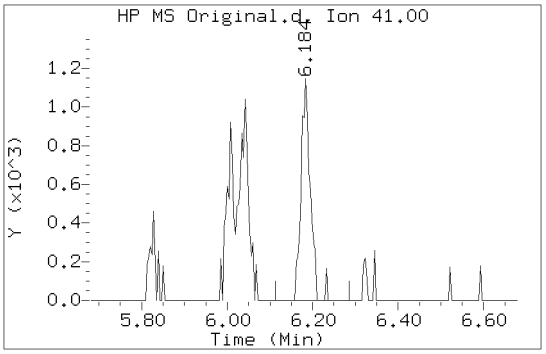


Methyl Methacrylate (80-62-6)

Reason Code:

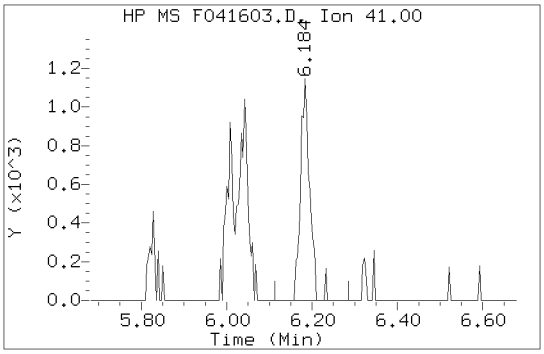
BEFORE

MASS
41
AREA
1732
HEIGHT
1147
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
41
AREA
1732
HEIGHT
1147
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
69
AREA
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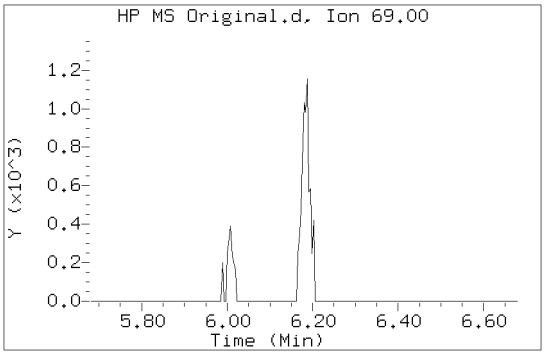
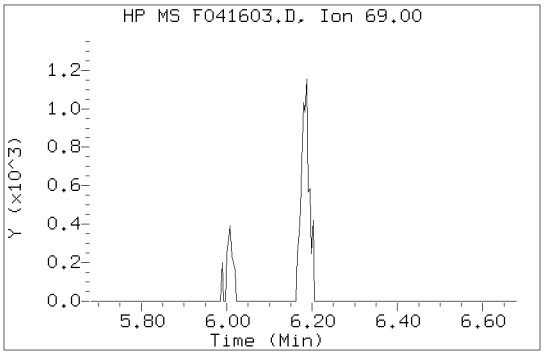
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
69
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



BEFORE

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HEIGHT
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22-Apr-2024
09:21
salina
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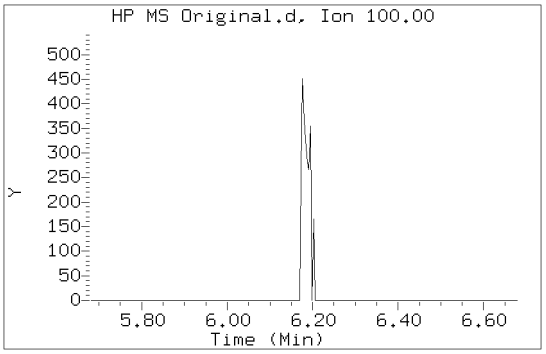

AFTER

MASS
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AREA
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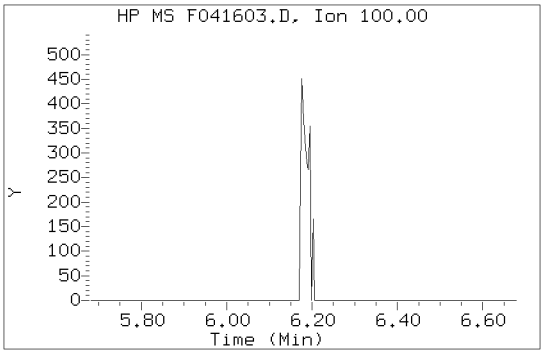
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



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Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

MASS
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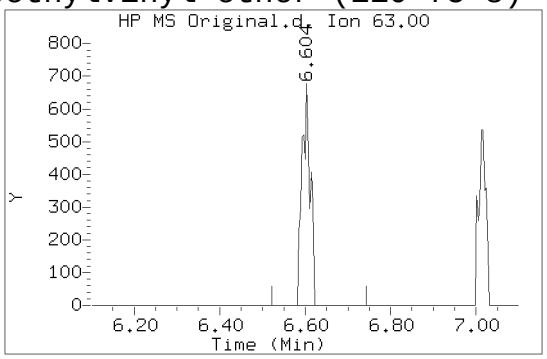
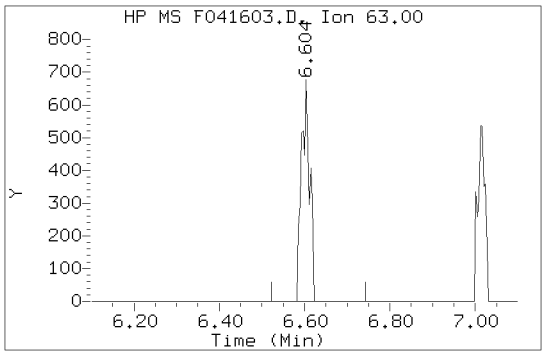
HEIGHT
677
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
63
AREA
934
HEIGHT
677
22-Apr-2024
09:21
salina
zaid



BEFORE

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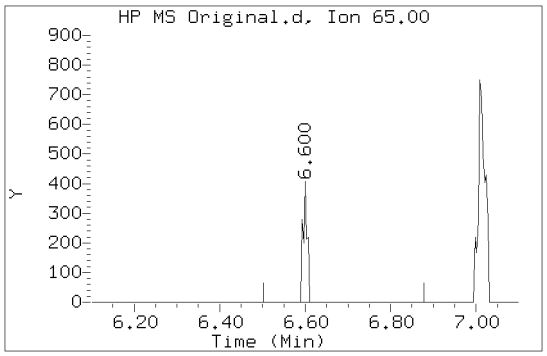
AREA
296
HEIGHT
408
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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AREA
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HEIGHT
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22-Apr-2024
09:21
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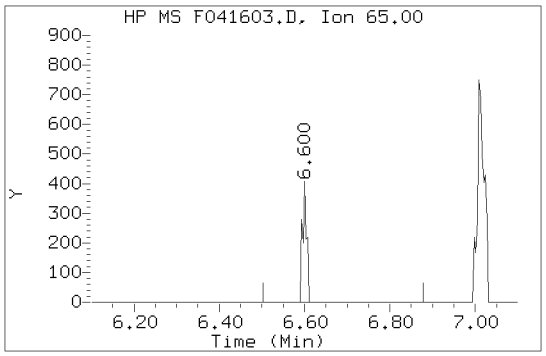

BEFORE

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HEIGHT
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22-Apr-2024
09:21
salina
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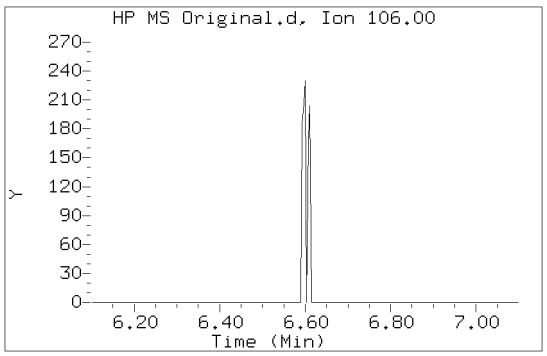

AFTER

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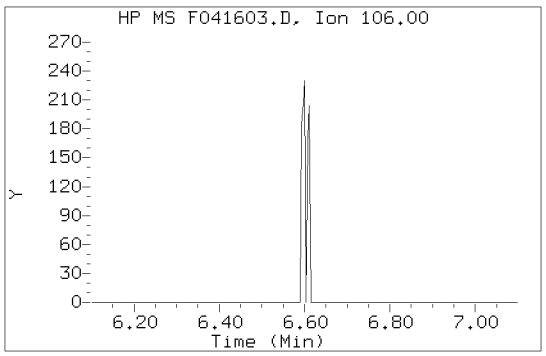
22-Apr-2024
09:21
salina
zaid



3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE

MASS
57
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1977
HEIGHT
1122
22-Apr-2024
09:21
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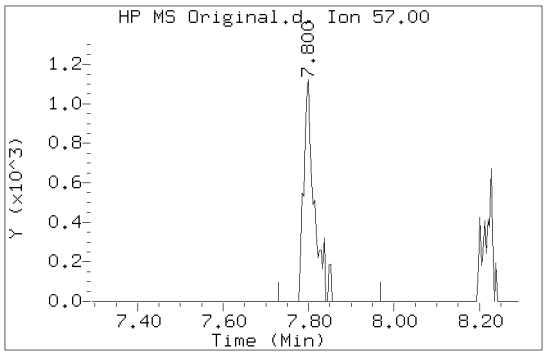

AFTER

MASS
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AREA
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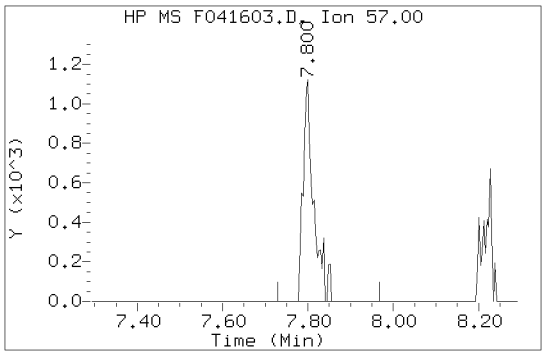
HEIGHT
1122
22-Apr-2024
09:21
salina
zaid



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Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

BEFORE
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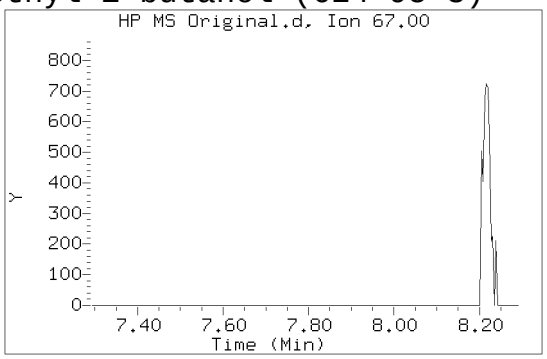
67
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER
MASS
67
AREA
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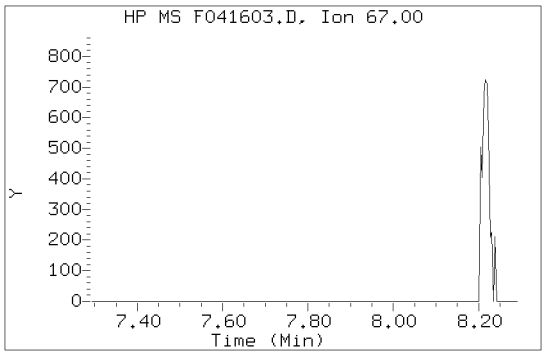
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



BEFORE
MASS
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AREA
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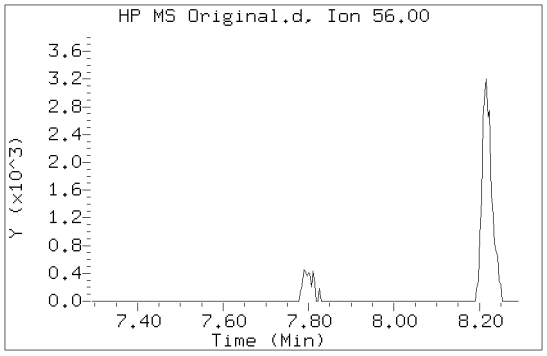
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER
MASS
56
AREA
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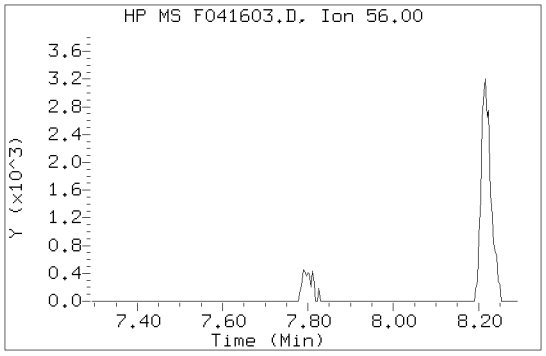
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

BEFORE
MASS
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AREA
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HEIGHT
1433
22-Apr-2024
09:21
salina
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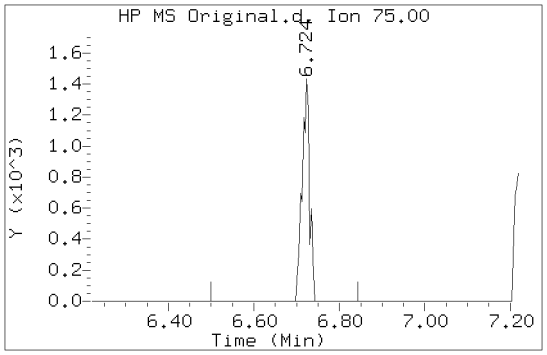
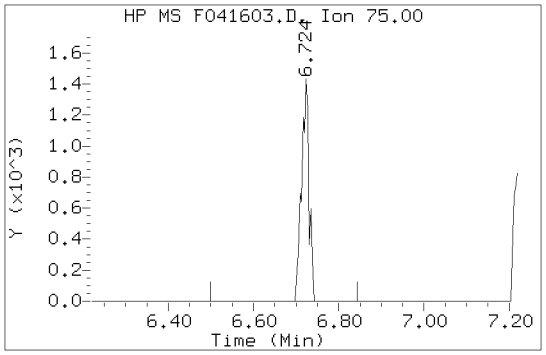


AFTER
MASS
75
AREA
1801
HEIGHT
1433
22-Apr-2024
09:21
salina
zaid



BEFORE
MASS
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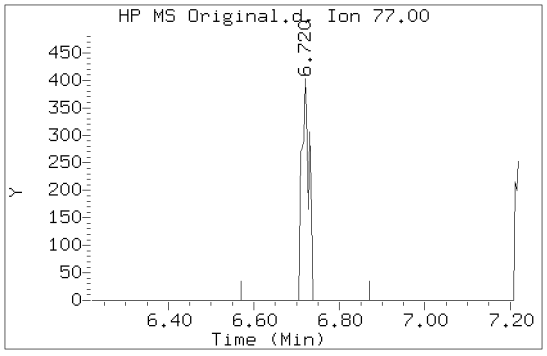
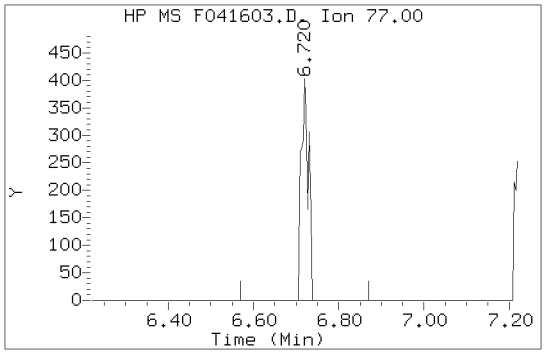
AREA
497
HEIGHT
403
22-Apr-2024
09:21
salina
zaid



AFTER
MASS
77
AREA
497
HEIGHT
403
22-Apr-2024
09:21
salina
zaid



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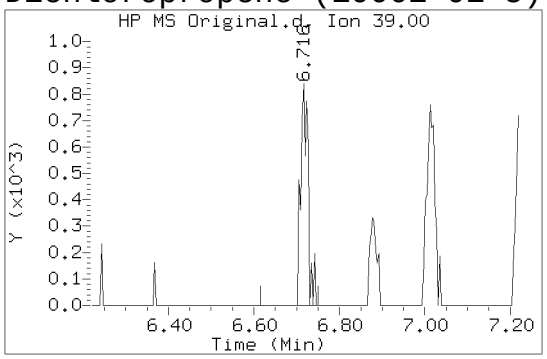
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

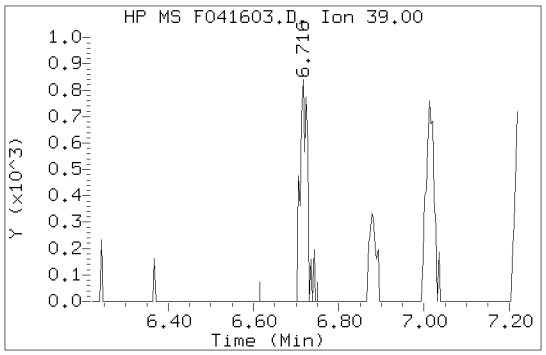
BEFORE

MASS
39
AREA
1052
HEIGHT
840
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
39
AREA
1052
HEIGHT
840
22-Apr-2024
09:21
salina
zaid

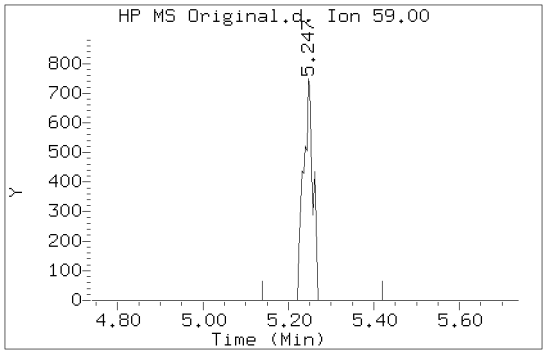


tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

MASS
59
AREA
1185
HEIGHT
749
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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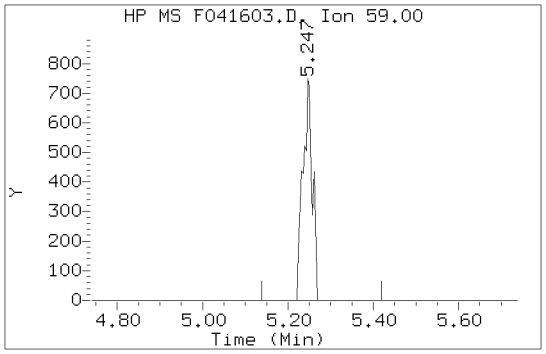
AREA
1185
HEIGHT
749
22-Apr-2024
09:21
salina
zaid



BEFORE

MASS
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AREA
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HEIGHT
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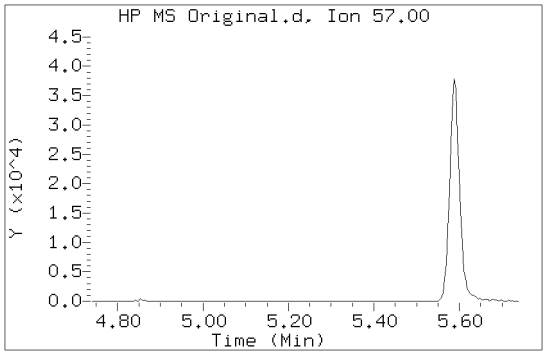
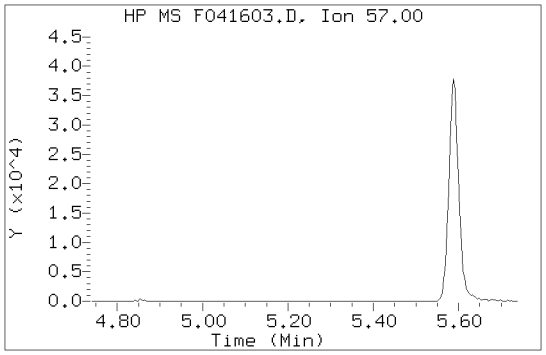
22-Apr-2024
09:21
salina
zaid



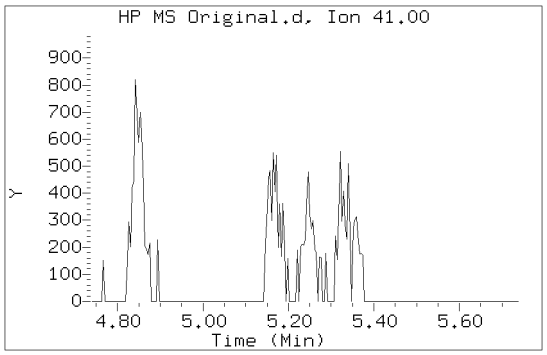
AFTER

MASS
57
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



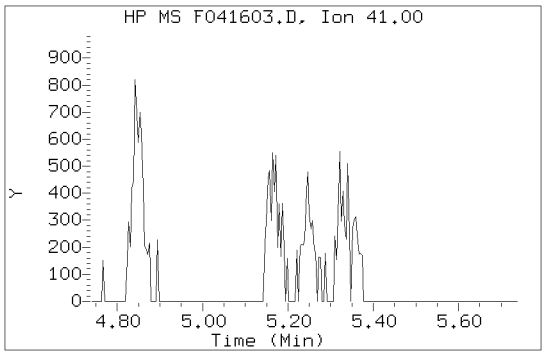
BEFORE

MASS
41
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



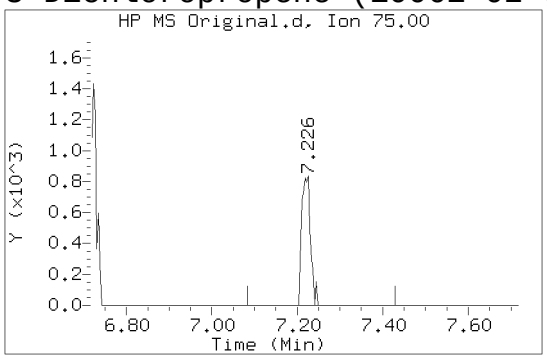
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

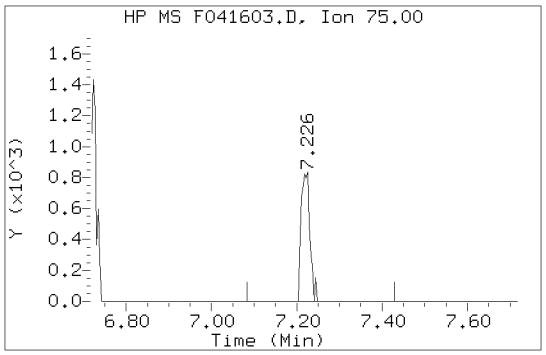
BEFORE

MASS
75
AREA
1234
HEIGHT
838
22-Apr-2024
09:21
salina
zaid



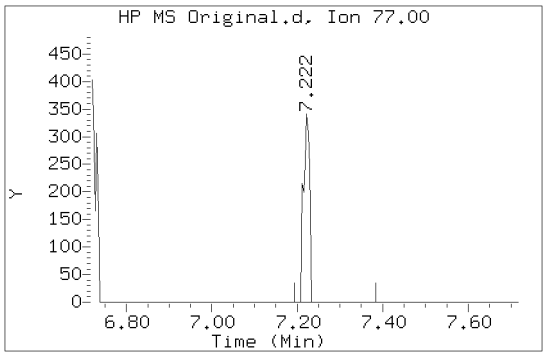
AFTER

MASS
75
AREA
1234
HEIGHT
838
22-Apr-2024
09:21
salina
zaid



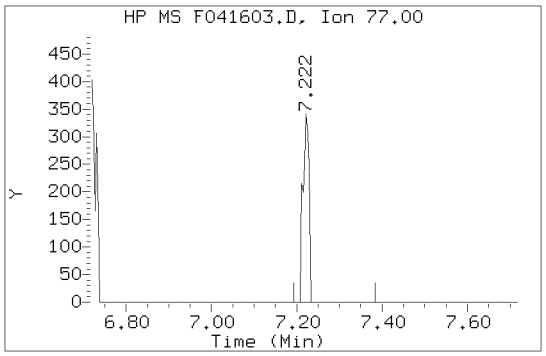
BEFORE

MASS
77
AREA
351
HEIGHT
342
22-Apr-2024
09:21
salina
zaid



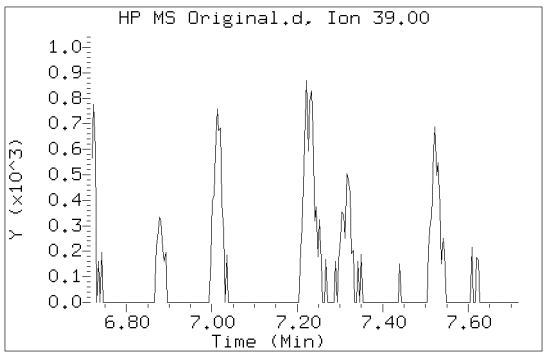
AFTER

MASS
77
AREA
351
HEIGHT
342
22-Apr-2024
09:21
salina
zaid



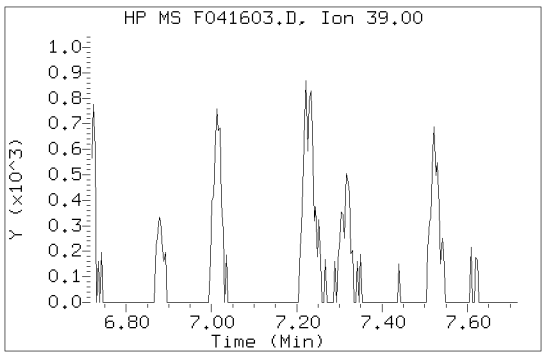
BEFORE

MASS
39
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
39
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

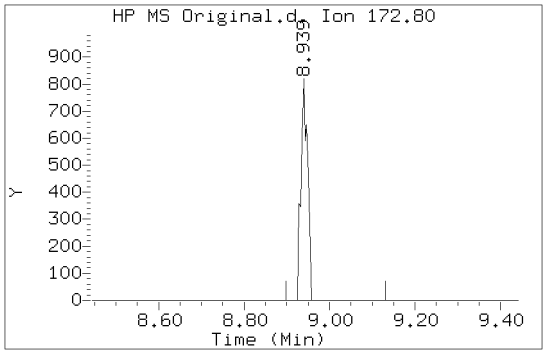


Bromoform (75-25-2)

Reason Code:

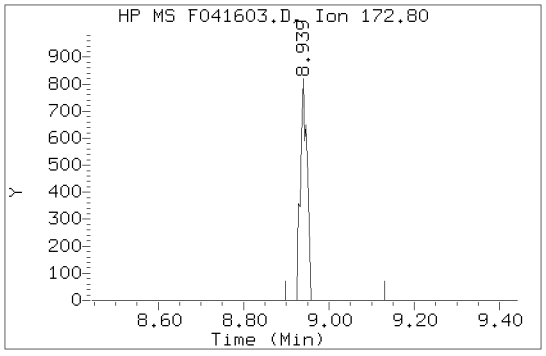
BEFORE

MASS
172.8
AREA
924
HEIGHT
820
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
172.8
AREA
924
HEIGHT
820
22-Apr-2024
09:21
salina
zaid



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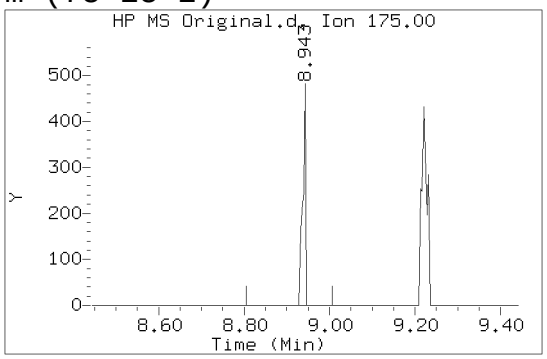
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Bromoform (75-25-2)

Reason Code:

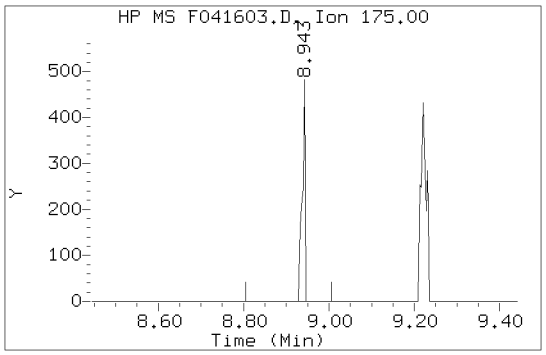
BEFORE

MASS
175
AREA
246
HEIGHT
482
22-Apr-2024
09:21
salina
zaid



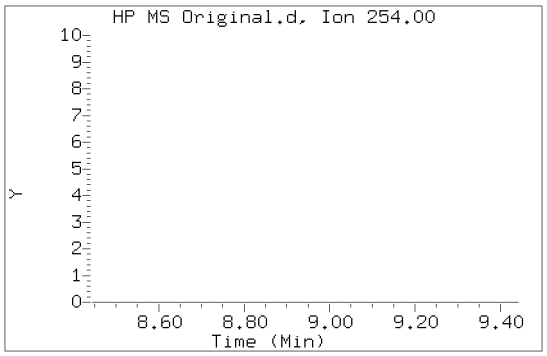
AFTER

MASS
175
AREA
246
HEIGHT
482
22-Apr-2024
09:21
salina
zaid



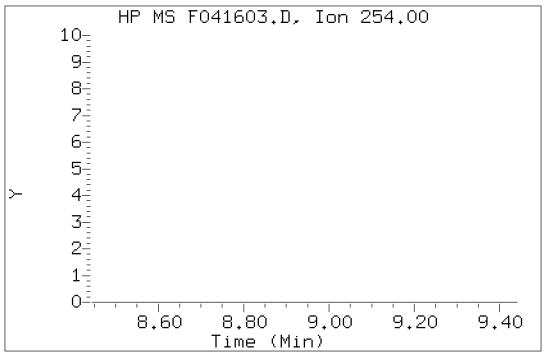
BEFORE

MASS
254
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
254
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

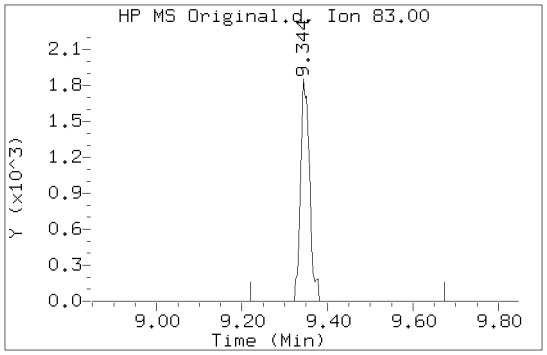


1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

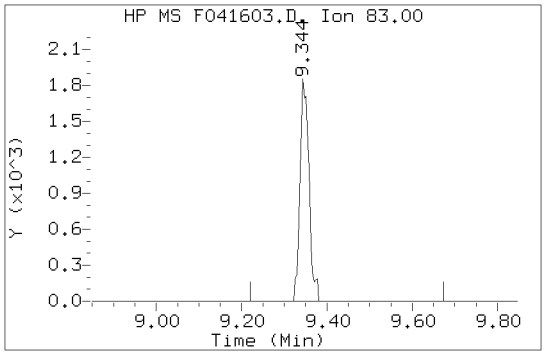
BEFORE

MASS
83
AREA
2777
HEIGHT
1855
22-Apr-2024
09:21
salina
zaid



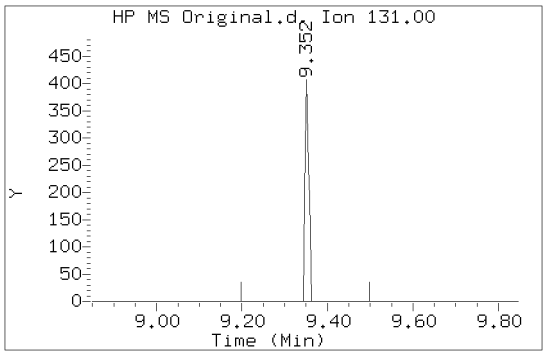
AFTER

MASS
83
AREA
2777
HEIGHT
1855
22-Apr-2024
09:21
salina
zaid



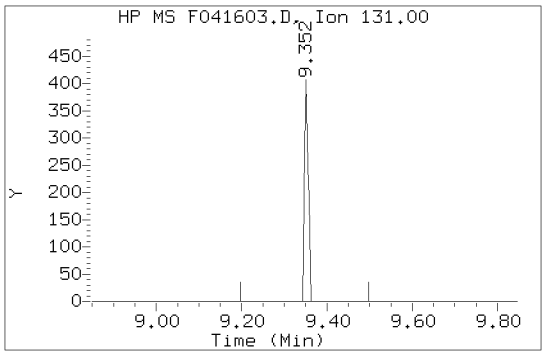
BEFORE

MASS
131
AREA
253
HEIGHT
407
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
131
AREA
253
HEIGHT
407
22-Apr-2024
09:21
salina
zaid



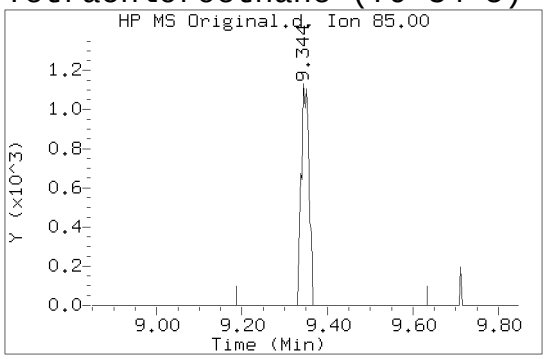
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

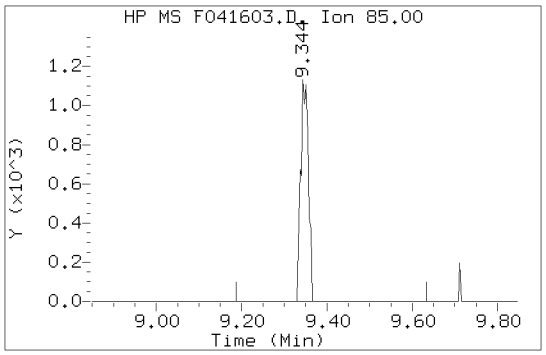
BEFORE

MASS
85
AREA
1460
HEIGHT
1132
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
85
AREA
1460
HEIGHT
1132
22-Apr-2024
09:21
salina
zaid

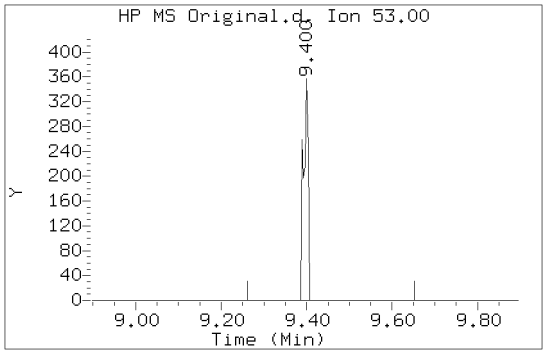


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

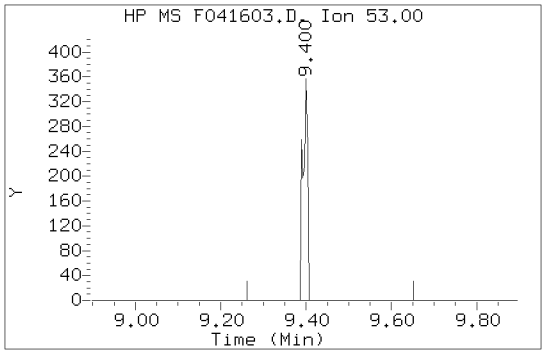
BEFORE

MASS
53
AREA
286
HEIGHT
357
22-Apr-2024
09:21
salina
zaid



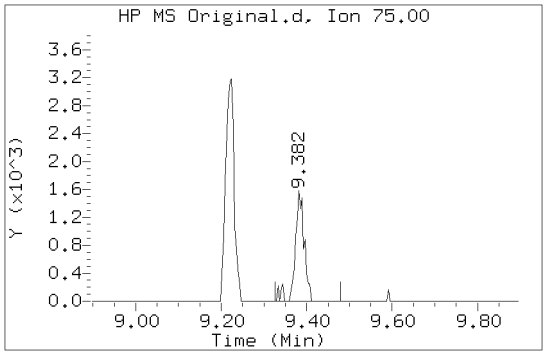
AFTER

MASS
53
AREA
286
HEIGHT
357
22-Apr-2024
09:21
salina
zaid



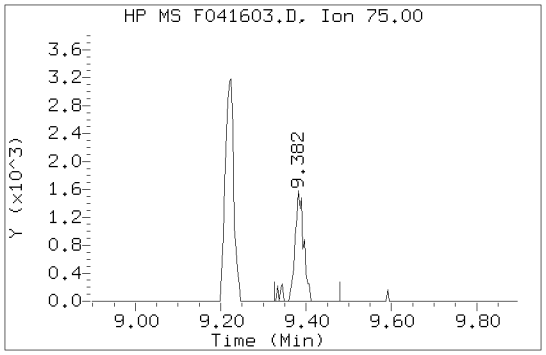
BEFORE

MASS
75
AREA
2383
HEIGHT
1585
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
75
AREA
2383
HEIGHT
1585
22-Apr-2024
09:21
salina
zaid

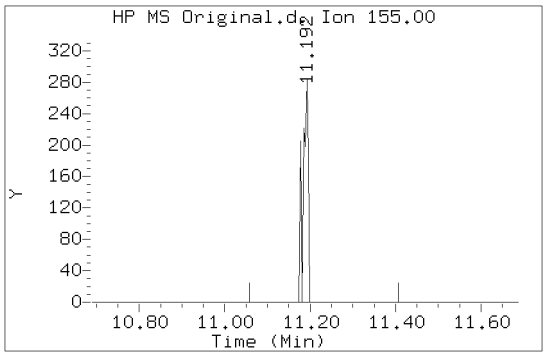


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

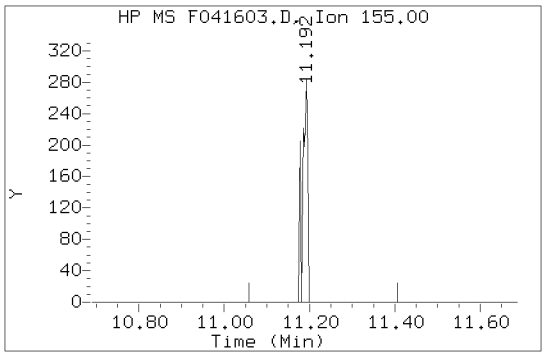
BEFORE

MASS
155
AREA
245
HEIGHT
283
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
155
AREA
245
HEIGHT
283
22-Apr-2024
09:21
salina
zaid



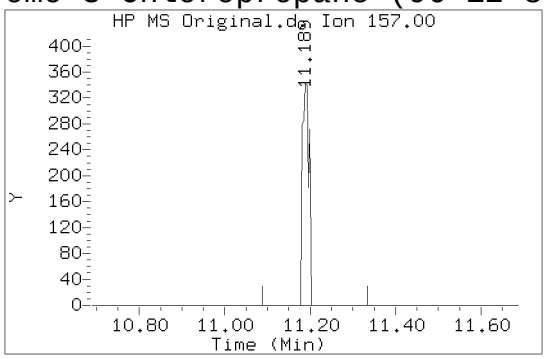
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

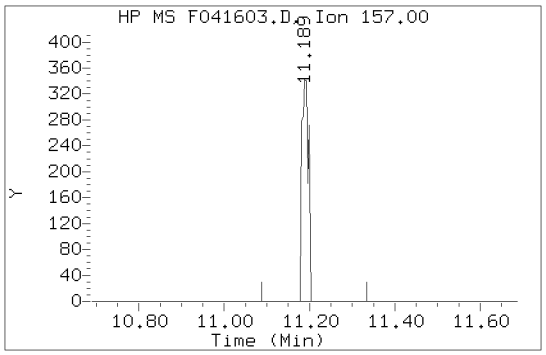
BEFORE

MASS
157
AREA
382
HEIGHT
342
22-Apr-2024
09:21
salina
zaid



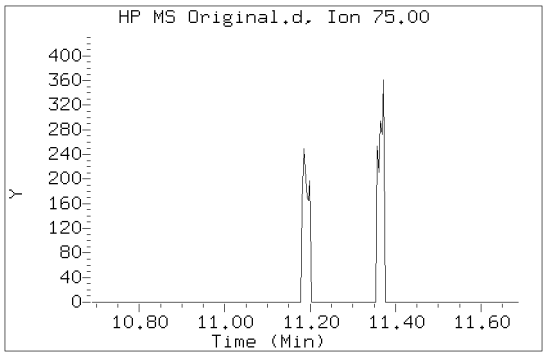
AFTER

MASS
157
AREA
382
HEIGHT
342
22-Apr-2024
09:21
salina
zaid



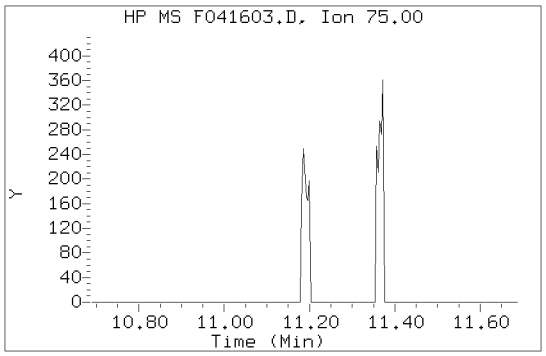
BEFORE

MASS
75
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
75
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

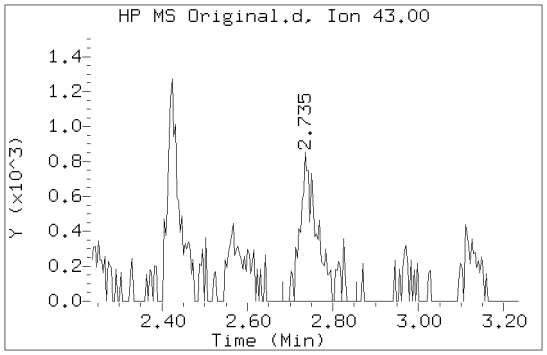


Methyl acetate (79-20-9)

Reason Code:

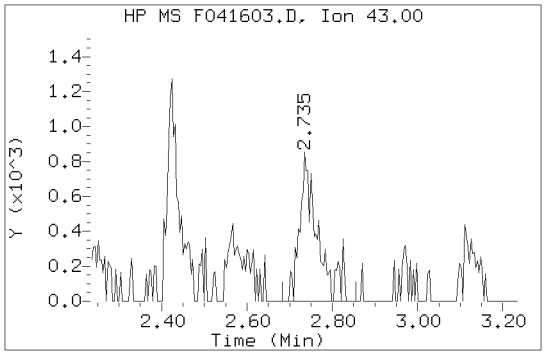
BEFORE

MASS
43
AREA
2545
HEIGHT
853
22-Apr-2024
09:21
salina
zaid



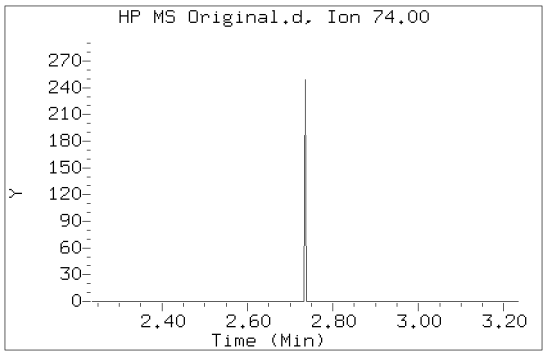
AFTER

MASS
43
AREA
2545
HEIGHT
853
22-Apr-2024
09:21
salina
zaid



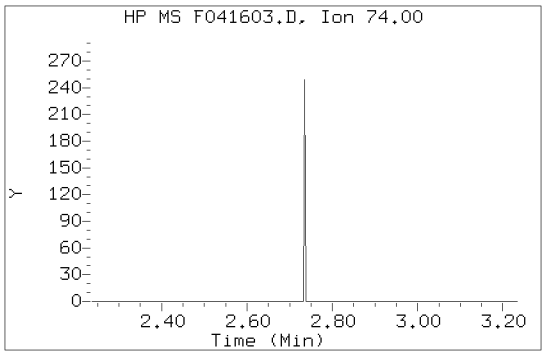
BEFORE

MASS
74
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
74
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

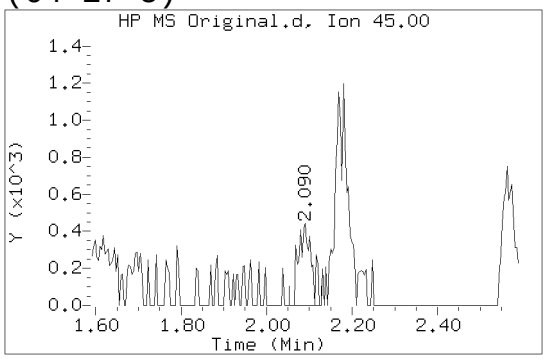


Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

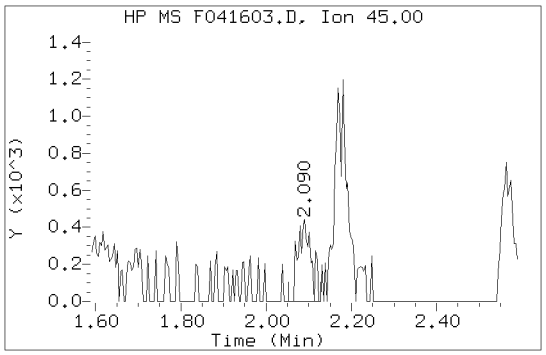
Ethanol (64-17-5)

Reason Code:

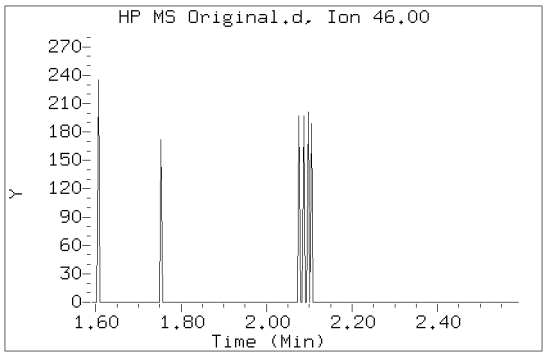
BEFORE
MASS
45
AREA
953
HEIGHT
443
22-Apr-2024
09:21
salina
zaid



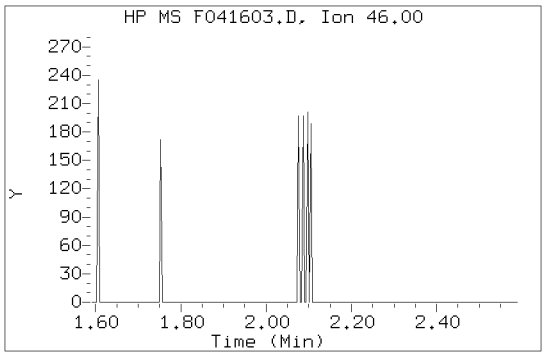
AFTER
MASS
45
AREA
953
HEIGHT
443
22-Apr-2024
09:21
salina
zaid



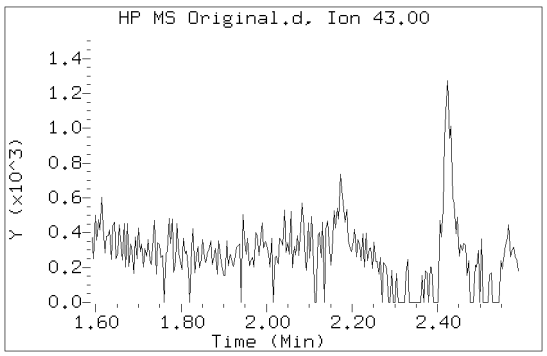
BEFORE
MASS
46
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



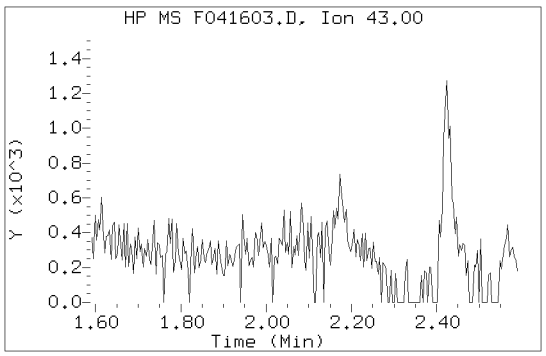
AFTER
MASS
46
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



BEFORE
MASS
43
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



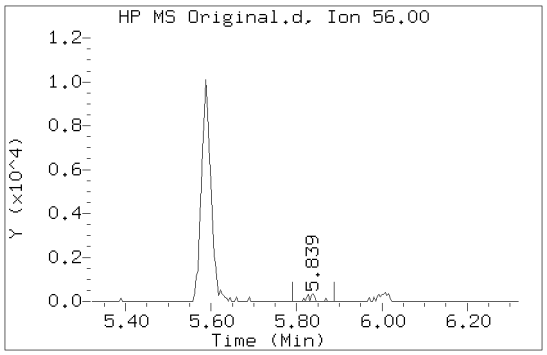
AFTER
MASS
43
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



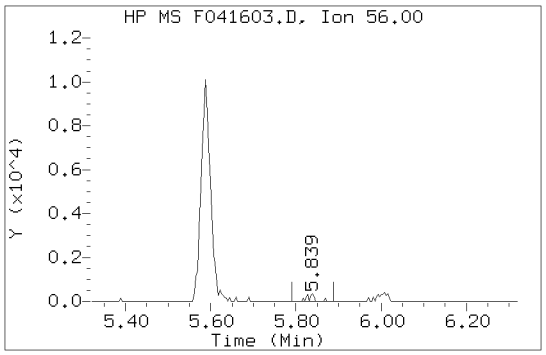
n-Butanol (71-36-3)

Reason Code:

BEFORE
MASS
56
AREA
378
HEIGHT
345
22-Apr-2024
09:21
salina
zaid



AFTER
MASS
56
AREA
378
HEIGHT
345
22-Apr-2024
09:21
salina
zaid



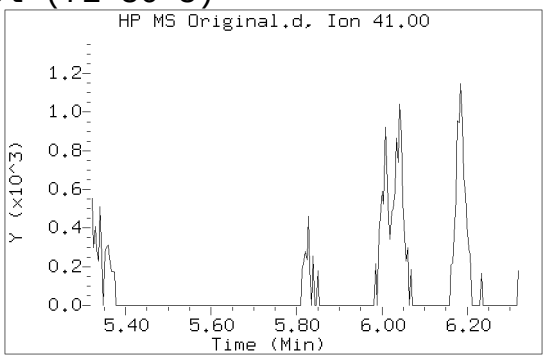
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

n-Butanol (71-36-3)

Reason Code:

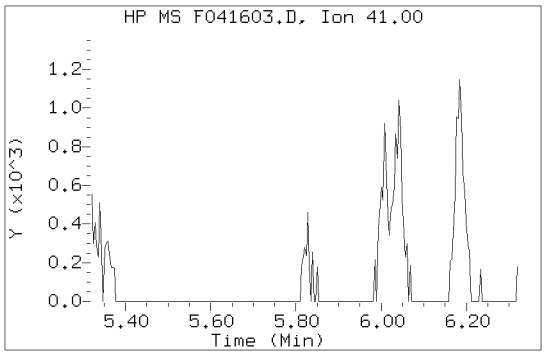
BEFORE

MASS
41
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

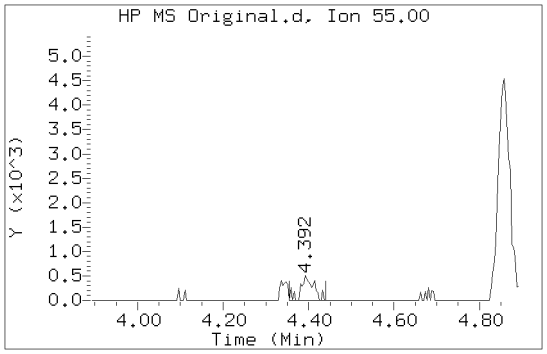


Methyl Acrylate (96-33-3)

Reason Code:

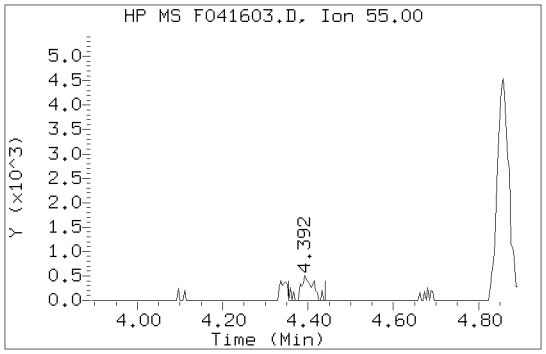
BEFORE

MASS
55
AREA
1048
HEIGHT
510
22-Apr-2024
09:21
salina
zaid



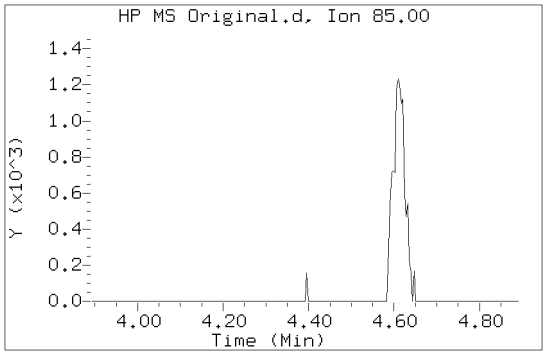
AFTER

MASS
55
AREA
1048
HEIGHT
510
22-Apr-2024
09:21
salina
zaid



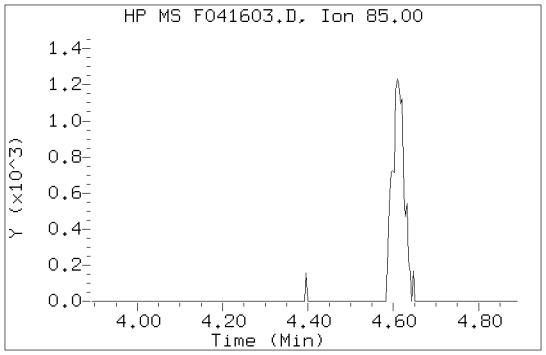
BEFORE

MASS
85
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

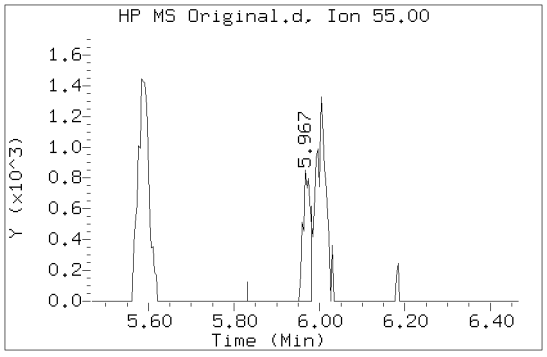


Ethyl Acrylate (140-88-5)

Reason Code:

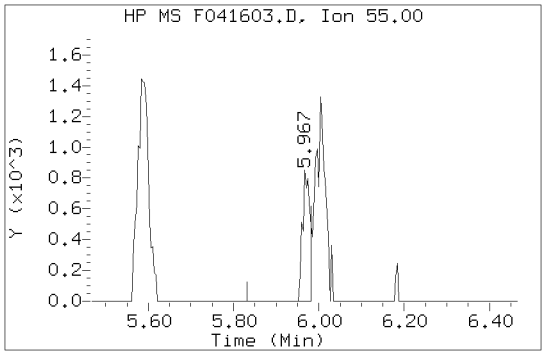
BEFORE

MASS
55
AREA
1048
HEIGHT
853
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
55
AREA
1048
HEIGHT
853
22-Apr-2024
09:21
salina
zaid



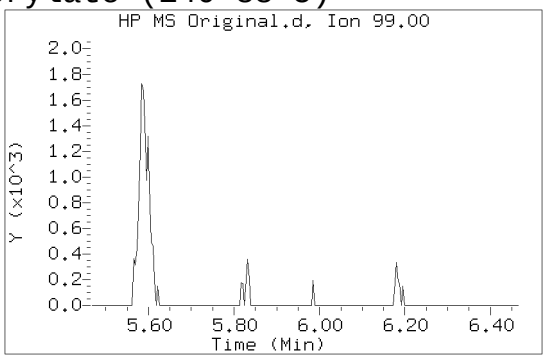
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Ethyl Acrylate (140-88-5)

Reason Code:

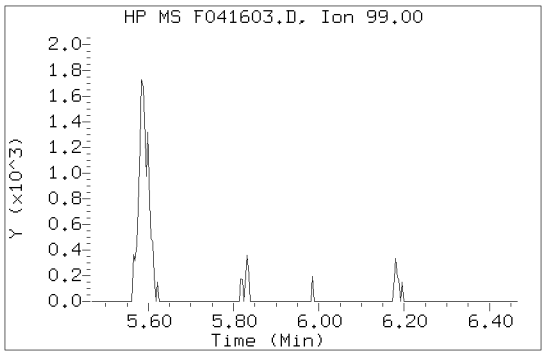
BEFORE

MASS
99
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

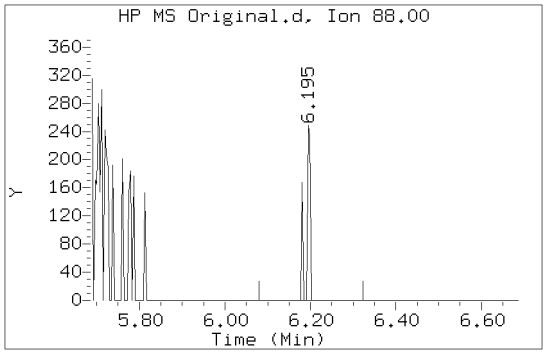


1,4-Dioxane ()

Reason Code:

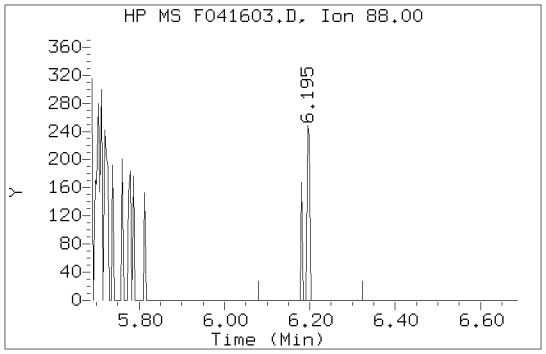
BEFORE

MASS
88
AREA
146
HEIGHT
249
22-Apr-2024
09:21
salina
zaid



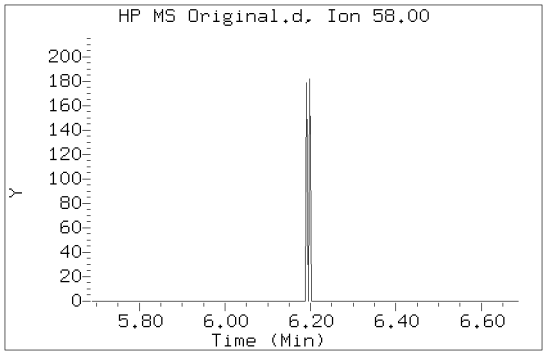
AFTER

MASS
88
AREA
146
HEIGHT
249
22-Apr-2024
09:21
salina
zaid



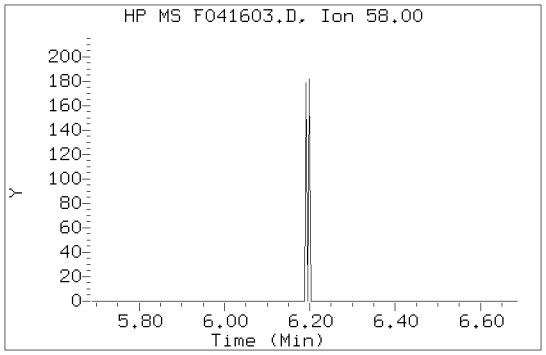
BEFORE

MASS
58
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
58
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

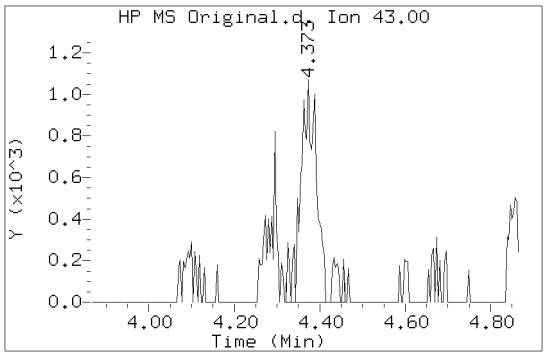


Ethyl Acetate (141-78-6)

Reason Code:

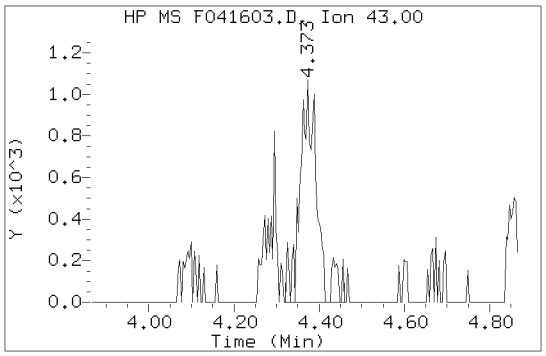
BEFORE

MASS
43
AREA
3016
HEIGHT
1070
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
43
AREA
3016
HEIGHT
1070
22-Apr-2024
09:21
salina
zaid



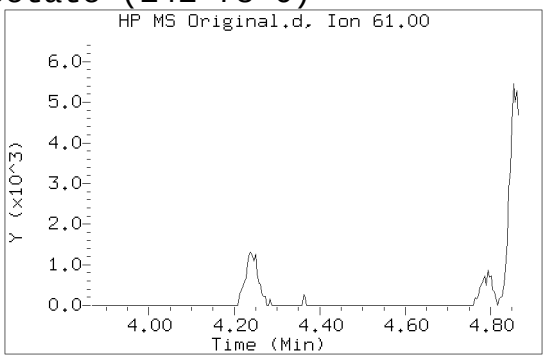
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Ethyl Acetate (141-78-6)

Reason Code:

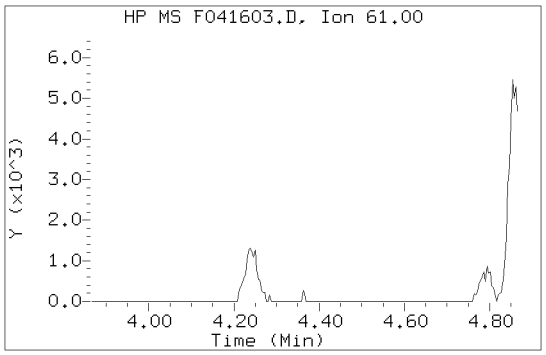
BEFORE

MASS
61
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



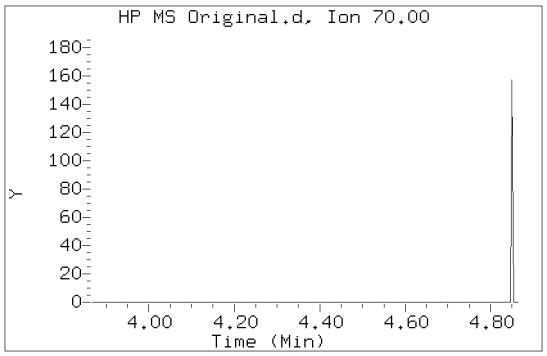
AFTER

MASS
61
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



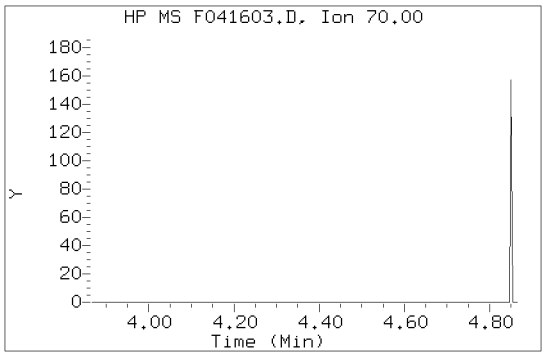
BEFORE

MASS
70
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
70
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

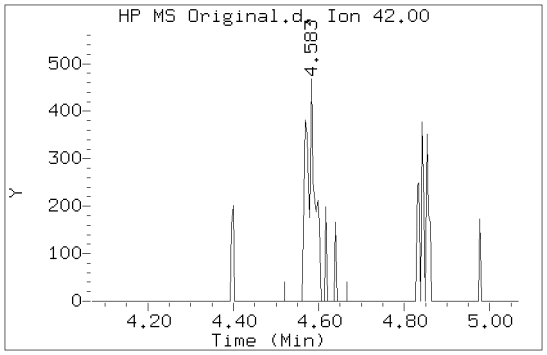


Tetrahydrofuran (109-99-9)

Reason Code:

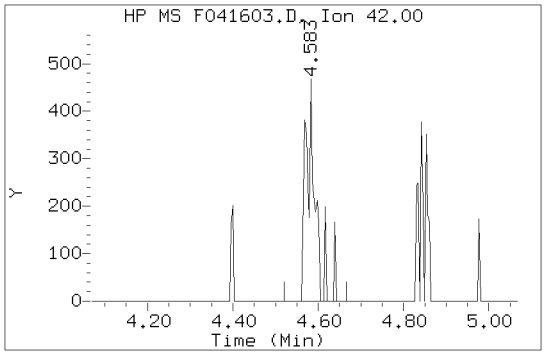
BEFORE

MASS
42
AREA
726
HEIGHT
468
22-Apr-2024
09:21
salina
zaid



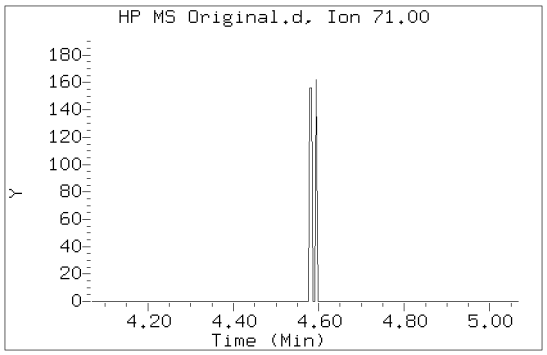
AFTER

MASS
42
AREA
726
HEIGHT
468
22-Apr-2024
09:21
salina
zaid



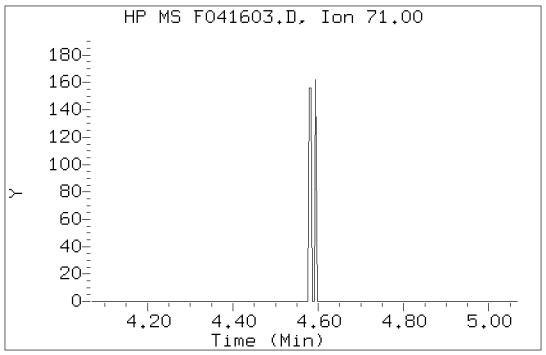
BEFORE

MASS
71
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
71
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



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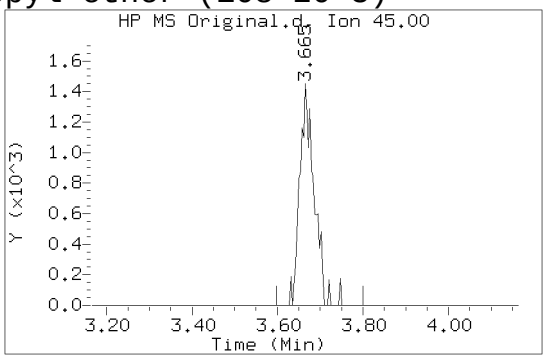
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Diisopropyl ether (108-20-3)

Reason Code:

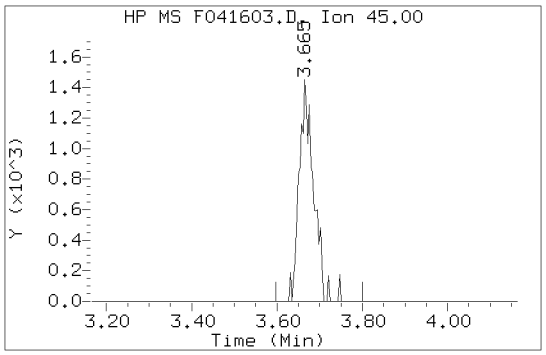
BEFORE

MASS
45
AREA
3402
HEIGHT
1451
22-Apr-2024
09:21
salina
zaid



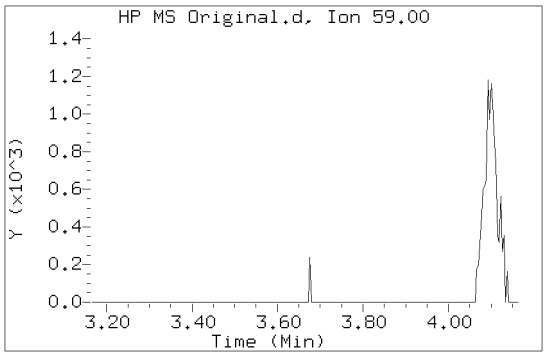
AFTER

MASS
45
AREA
3402
HEIGHT
1451
22-Apr-2024
09:21
salina
zaid



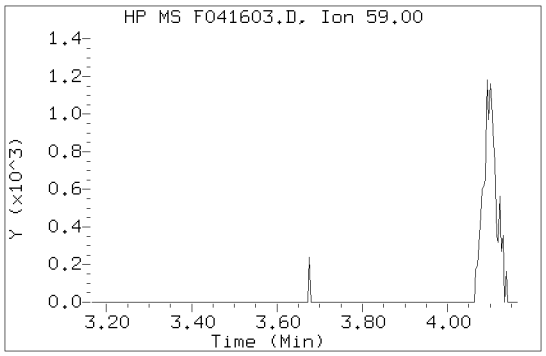
BEFORE

MASS
59
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



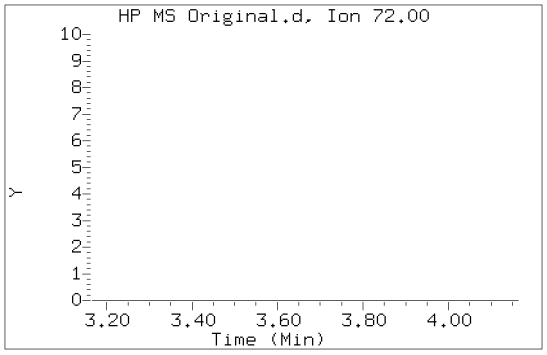
AFTER

MASS
59
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



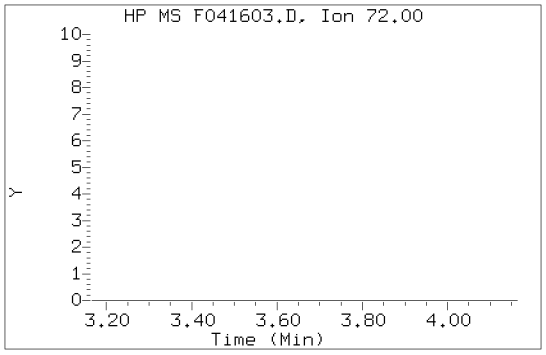
BEFORE

MASS
72
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
72
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

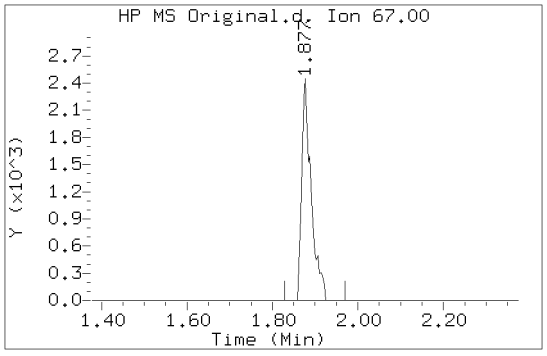


Dichlorofluoromethane (75-43-4)

Reason Code:

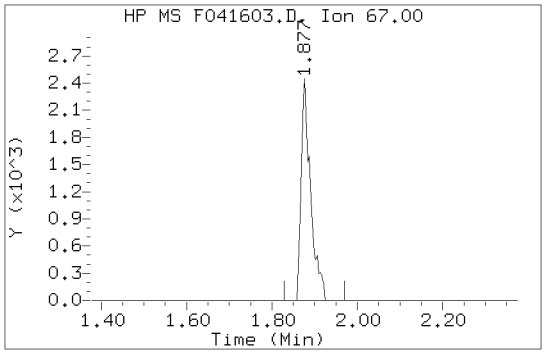
BEFORE

MASS
67
AREA
3852
HEIGHT
2449
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
67
AREA
3852
HEIGHT
2449
22-Apr-2024
09:21
salina
zaid



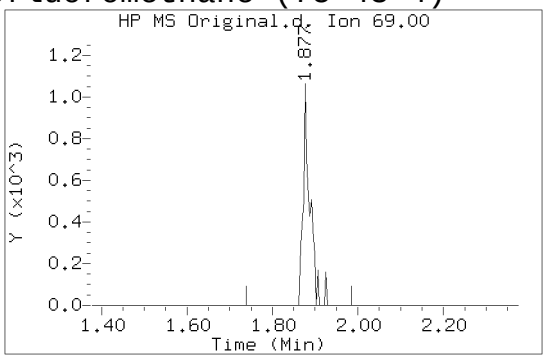
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041603.D
Inj Date : 16-APR-2024 11:58
InstruID : voa11.i
LabSampID : VSTD00.5

Dichlorofluoromethane (75-43-4)

Reason Code:

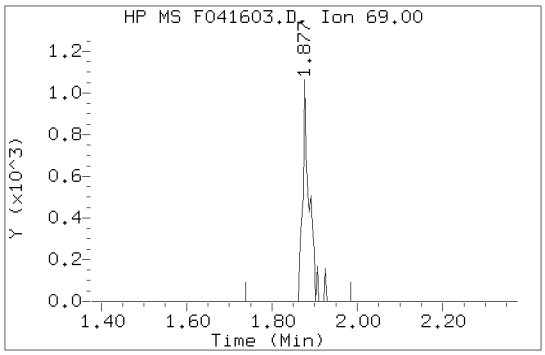
BEFORE

MASS
69
AREA
1202
HEIGHT
1064
22-Apr-2024
09:21
salina
zaid



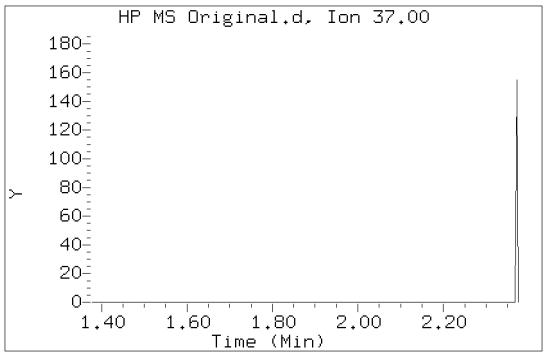
AFTER

MASS
69
AREA
1202
HEIGHT
1064
22-Apr-2024
09:21
salina
zaid



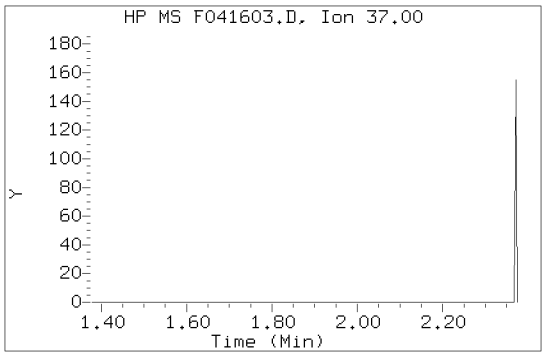
BEFORE

MASS
37
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
37
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041604.D Page 1
Report Date: 22-Apr-2024 09:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041604.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 16-APR-2024 12:20
Operator : FT Inst ID: voa11.i
Smp Info : VSTD001;VSTD001;1;3;
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 09:22 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 11:58 Cal File: F041603.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.856	4.856	(1.000)	491416	50.0000	
2	Dichlorodifluoromethane	85	1.175	1.175	(0.242)	4543	1.00000	0.84(a)
3	Chloromethane	50	1.306	1.306	(0.269)	9380	1.00000	0.98(a)
4	Propionitrile	54	4.335	4.335	(0.893)	11066	10.0000	8.90(a)
5	Vinyl Chloride	62	1.389	1.389	(0.286)	4679	1.00000	0.89(a)
7	Chloroethane	64	1.719	1.719	(0.354)	3391	1.00000	1.00
8	Trichlorofluoromethane	101	1.921	1.921	(0.396)	7153	1.00000	0.85(a)
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	7978	1.00000	0.96(aM)
9	Acrolein	56	2.277	2.277	(0.469)	471	2.00000	4.16(M)
10	Acetone	43	2.427	2.427	(0.500)	3613	2.00000	6.29
11	1,1-Dichloroethene	96	2.360	2.360	(0.486)	3761	1.00000	0.90(a)
12	Isobutyl Alcohol	43	5.239	5.239	(1.079)	1684	20.0000	7.98(aH)
13	Acetonitrile	39	2.701	2.701	(0.556)	4248	10.0000	18.09
14	Allyl Chloride	41	2.705	2.705	(0.557)	7581	1.00000	2.83
15	Iodomethane	142	2.502	2.502	(0.515)	2027	2.00000	12.91(T)
16	Acrylonitrile	53	3.076	3.076	(0.633)	2111	2.00000	5.19
17	Methylene Chloride	84	2.821	2.821	(0.581)	10390	1.00000	1.66(a)
18	Methyl tert-butyl ether	73	3.117	3.117	(0.642)	6918	1.00000	3.89
19	Carbon Disulfide	76	2.555	2.555	(0.526)	21740	2.00000	1.71(a)
20	trans-1,2-Dichloroethene	96	3.098	3.098	(0.638)	3990	1.00000	0.87(a)

21 Vinyl Acetate	43	3.672	3.672 (0.756)	10053	2.00000	5.27
22 1,1-Dichloroethane	63	3.556	3.556 (0.732)	7061	1.00000	0.91(a)

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041604.D Page 2
Report Date: 22-Apr-2024 09:22

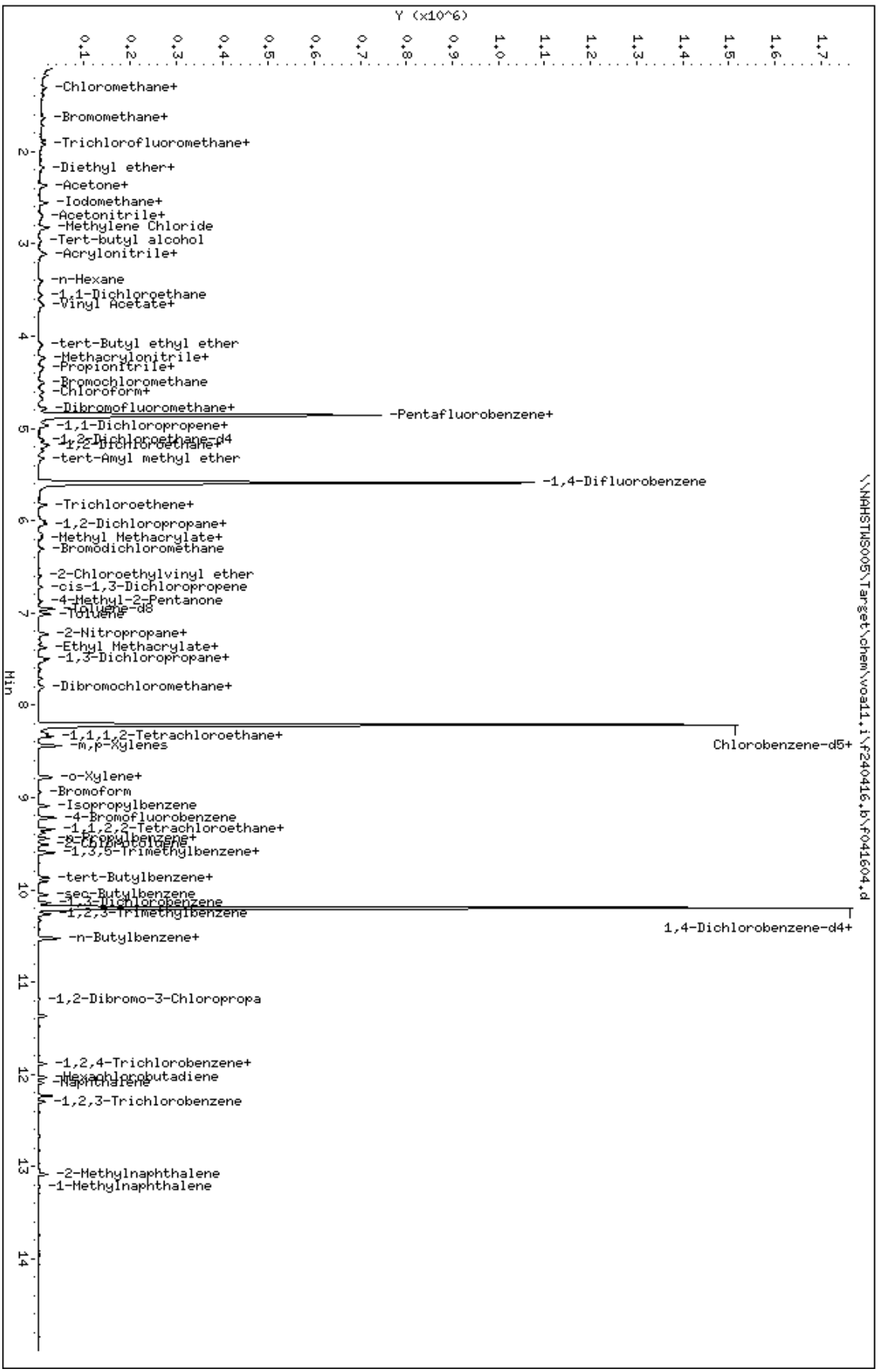
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.294	4.294	(0.884)	2826	2.00000	7.13(M)
	25	Methacrylonitrile	41	4.234	4.234	(0.872)	3478	1.00000	0.95(a)
	26	2,2-Dichloropropane	77	4.227	4.227	(0.870)	3643	1.00000	3.80(M)
	27	cis-1,2-Dichloroethene	96	4.234	4.234	(0.872)	4501	1.00000	0.92(a)
	28	Chloroform	83	4.609	4.609	(0.949)	8605	1.00000	0.96(a)
	29	Bromochloromethane	128	4.500	4.500	(0.927)	2796	1.00000	1.03
$	30	Dibromofluoromethane	113	4.781	4.781	(0.985)	6063	1.00000	1.58
	31	1,1,1-Trichloroethane	97	4.796	4.796	(0.988)	6087	1.00000	0.86(a)
	32	1,1-Dichloropropene	75	4.973	4.973	(0.890)	5323	1.00000	0.85(a)
	33	1,2-Dichloroethane	62	5.201	5.201	(0.931)	7489	1.00000	0.91(a)
	34	Carbon Tetrachloride	117	4.958	4.958	(0.887)	5521	1.00000	0.84(a)
$	35	1,2-Dichloroethane-d4	65	5.122	5.122	(1.055)	8909	1.00000	1.61
*	36	1,4-Difluorobenzene	114	5.587	5.587	(1.000)	787891	50.0000	
	37	Benzene	78	5.182	5.182	(0.928)	17326	1.00000	0.89(a)
	38	Trichloroethene	130	5.820	5.820	(1.042)	4987	1.00000	0.86(a)
	39	Bromodichloromethane	83	6.307	6.307	(1.129)	5510	1.00000	0.83(aM)
	40	Methyl Methacrylate	41	6.183	6.183	(1.273)	4145	1.00000	3.56
	41	2-Chloroethylvinyl ether	63	6.596	6.596	(1.180)	2321	2.00000	6.74
	42	1,2-Dichloropropane	63	6.041	6.041	(1.081)	4348	1.00000	0.87(a)
	43	2-Nitropropane	43	7.229	7.229	(1.489)	4358	1.00000	0.84(a)
	44	Dibromomethane	93	6.142	6.142	(1.099)	2961	1.00000	0.82(a)
	45	4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	3658	2.00000	2.46
	46	cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	3773	1.00000	3.27
*	47	Chlorobenzene-d5	117	8.215	8.215	(1.000)	707760	50.0000	
$	48	Toluene-d8	98	6.956	6.956	(0.847)	18318	1.00000	0.40(a)
	49	Ethyl Methacrylate	69	7.315	7.315	(1.309)	2815	1.00000	1.93
	50	Toluene	91	7.016	7.016	(0.854)	14002	1.00000	1.37
	51	trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	3071	1.00000	2.21
	52	2-Hexanone	43	7.229	7.229	(0.880)	4358	2.00000	1.64(a)
	53	1,1,2-Trichloroethane	83	7.379	7.379	(0.898)	3730	1.00000	0.92(a)
	54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	7139	1.00000	0.88(a)
	55	Dibromochloromethane	129	7.713	7.713	(0.939)	3515	1.00000	3.61
	56	Tetrachloroethene	164	7.492	7.492	(0.912)	4383	1.00000	0.92(a)
	57	1,2-Dibromoethane	107	7.807	7.807	(0.950)	3880	1.00000	1.95
	58	1-Chlorohexane	55	8.215	8.215	(1.470)	9603	1.00000	1.76
	59	Chlorobenzene	112	8.238	8.238	(1.003)	14486	1.00000	0.96(a)
	60	1,1,1,2-Tetrachloroethane	131	8.309	8.309	(1.011)	3634	1.00000	0.76(a)
	61	Ethylbenzene	106	8.339	8.339	(1.015)	5422	1.00000	0.81(a)
	62	m,p-Xylenes	106	8.440	8.440	(1.027)	11679	2.00000	1.57(a)
	63	o-Xylene	106	8.774	8.774	(1.068)	5330	1.00000	1.82
	64	Styrene	104	8.785	8.785	(1.069)	7651	1.00000	1.51
	66	Bromoform	173	8.939	8.939	(1.088)	1764	1.00000	1.25(T)
	67	Isopropylbenzene	105	9.096	9.096	(1.107)	12171	1.00000	1.71
	68	1,1,2,2-Tetrachloroethane	83	9.344	9.344	(0.916)	6025	1.00000	0.92(a)
$	69	4-Bromofluorobenzene	95	9.224	9.224	(1.123)	10601	1.00000	1.74
*	70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	389828	50.0000	
	71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	4794	1.00000	0.82(a)
	72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	644	1.00000	1.22(M)
	73	n-Propylbenzene	91	9.445	9.445	(0.926)	13723	1.00000	1.90
	74	Bromobenzene	156	9.344	9.344	(0.916)	4573	1.00000	2.52
	75	1,3,5-Trimethylbenzene	105	9.591	9.591	(0.940)	9274	1.00000	1.93
	76	2-Chlorotoluene	91	9.508	9.508	(0.932)	9968	1.00000	1.90

77	4-Chlorotoluene	91	9.602	9.602 (0.942)	10728	1.00000	1.41
78	tert-Butylbenzene	119	9.868	9.868 (0.968)	8365	1.00000	2.55

	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	9.910	9.910	(0.972)	9304	1.00000	2.15
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	11160	1.00000	2.39
82	p-Isopropyltoluene	119	10.179	10.179	(0.998)	9840	1.00000	2.35
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	8326	1.00000	0.75(a)
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	12075	1.00000	0.96(a)
87	n-Butylbenzene	91	10.524	10.524	(1.032)	11106	1.00000	2.78
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	9671	1.00000	0.86(a)
89	1,2-Dibromo-3-Chloropropane	155	11.192	11.192	(1.097)	380	1.00000	1.45(M)
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	4363	1.00000	0.67(a)
92	Naphthalene	128	12.091	12.091	(1.186)	7232	1.00000	2.08
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	4620	1.00000	0.83(a)
146	Methyl acetate	43	2.735	2.735	(0.563)	4521	1.00000	0.93(a)
138	Freon TF	101	2.375	2.375	(0.489)	4567	1.00000	0.91(a)
139	Diethyl ether	59	2.172	2.172	(0.447)	5268	1.00000	0.90(a)
141	Cyclohexane	56	4.856	4.856	(1.000)	13271	1.00000	1.50(a)
147	Methylcyclohexane	55	6.003	6.003	(1.074)	4578	1.00000	0.50(a)
132	n-Butanol	56	5.816	5.816	(1.198)	829	20.0000	43.40
131	Methyl Acrylate	55	4.403	4.403	(0.907)	2673	1.00000	2.92(M)
133	Ethyl Acrylate	55	5.973	5.973	(1.230)	2520	1.00000	4.87(M)
135	1,4-Dioxane	88	6.187	6.187	(1.274)	610	20.0000	22.66(M)
136	n-Hexane	57	3.406	3.406	(0.701)	3102	1.00000	2.02
142	Tetrahydrofuran	42	4.579	4.579	(0.943)	1915	2.00000	3.81(M)
148	Tert-butyl alcohol	59	2.971	2.971	(0.612)	4026	20.0000	42.85
149	Isopropyl alcohol	45	2.562	2.562	(0.528)	2811	20.0000	36.49
151	4-Methyl-2-pentanol	45	7.233	7.233	(1.295)	6178	20.0000	34.67
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	10652	1.00000	2.12
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	4363	1.00000	0.67(a)
172	tert-Butyl formate	59	5.235	5.235	(1.078)	2527	2.00000	3.73(M)
174	tert-Amyl methyl ether	73	5.321	5.321	(1.096)	5954	1.00000	4.53(T)
175	tert-Butyl ethyl ether	59	4.099	4.099	(0.844)	6677	1.00000	3.94
160	2-Methylnaphthalene	142	13.043	13.043	(1.279)	1825	1.00000	3.51
156	Diisopropyl ether	45	3.664	3.664	(0.755)	8416	1.00000	1.87(T)
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	2017	1.00000	2.48
130	Ethyl Acetate	43	4.362	4.362	(0.898)	6279	1.00000	3.37(TaM)
176	tert-Amyl alcohol	59	5.235	5.235	(1.078)	2528	20.0000	37.94

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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Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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Acrolein (107-02-8)

Reason Code:

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22-Apr-2024
09:21
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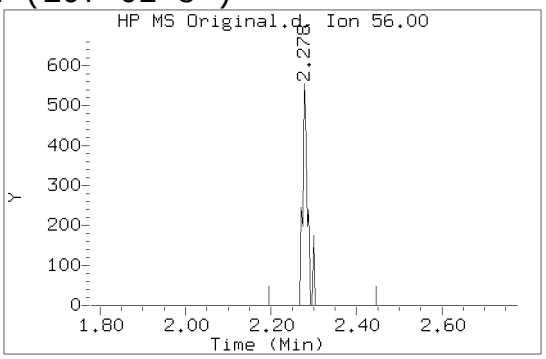

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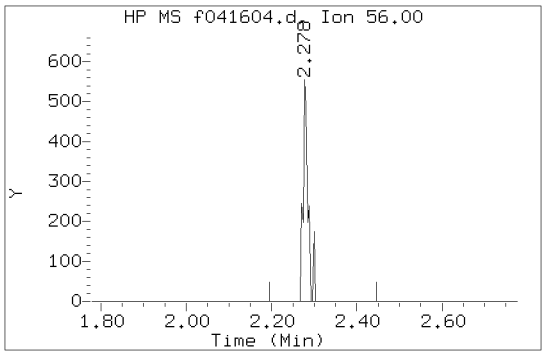

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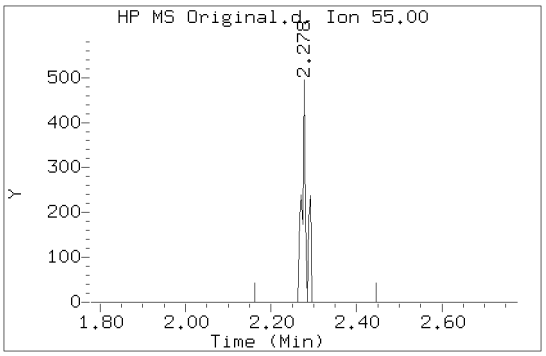

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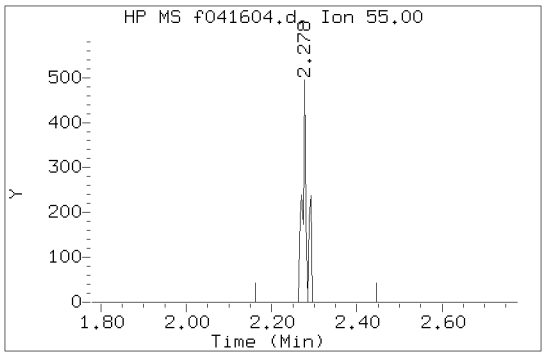

2-Butanone (78-93-3)

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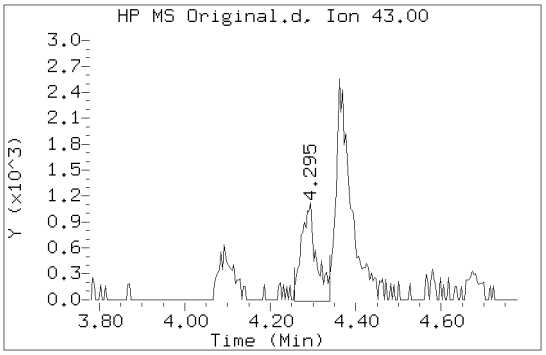

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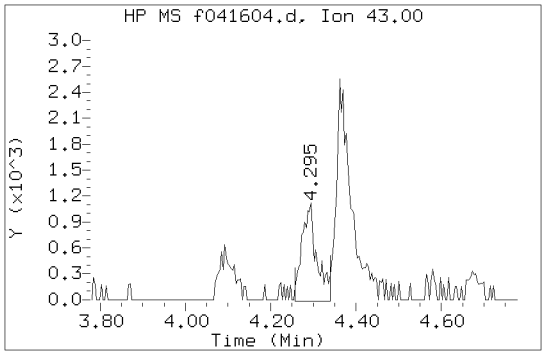

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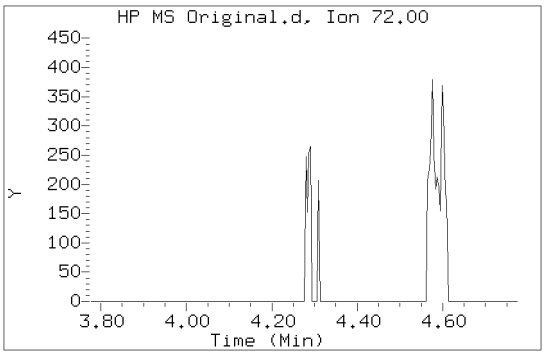

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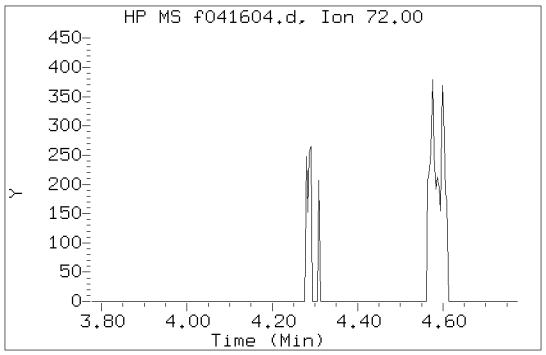

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LabSampID : VSTD001

2,2-Dichloropropane (594-20-7)

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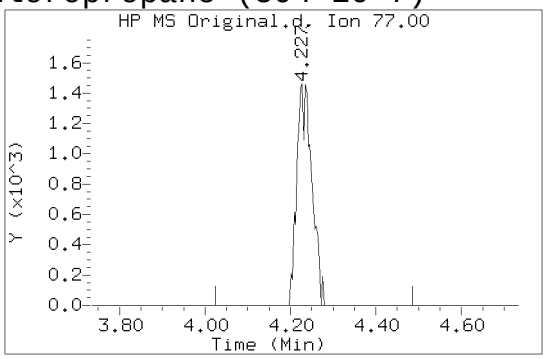

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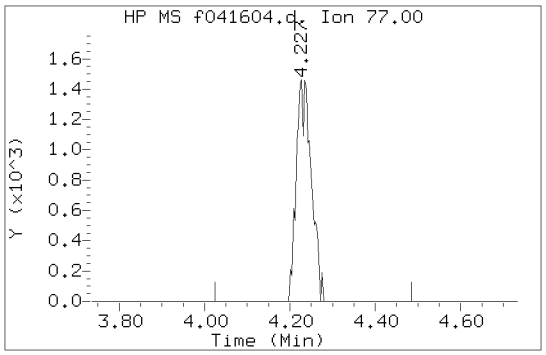

BEFORE

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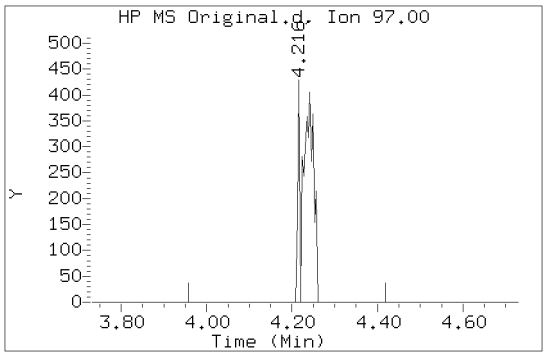

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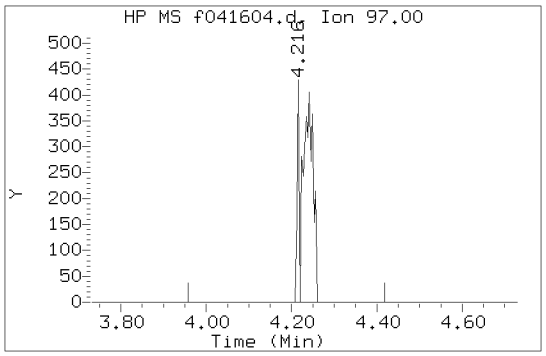

Bromodichloromethane (75-27-4)

Reason Code:

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22-Apr-2024
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salina
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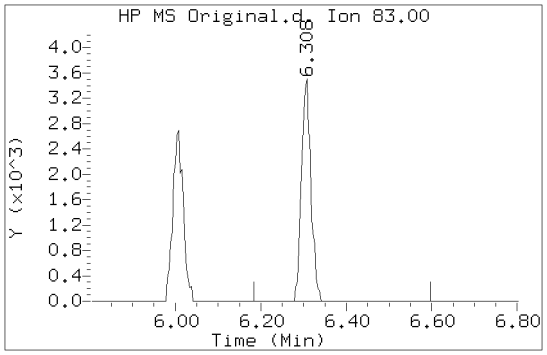

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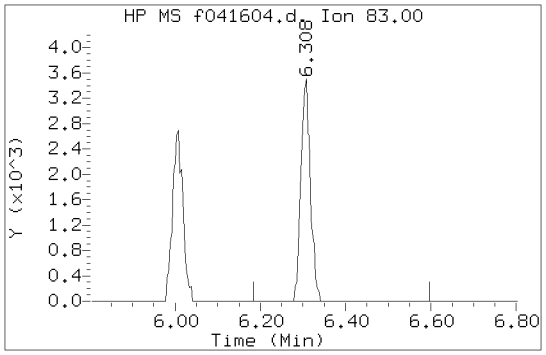

BEFORE

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HEIGHT
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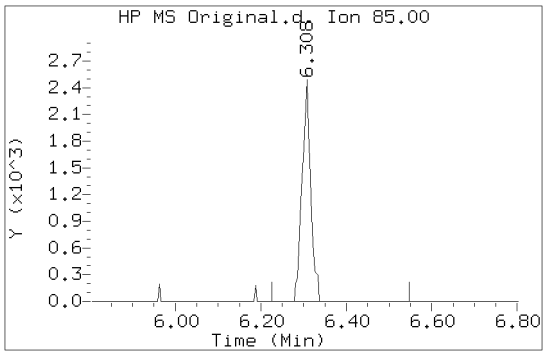

AFTER

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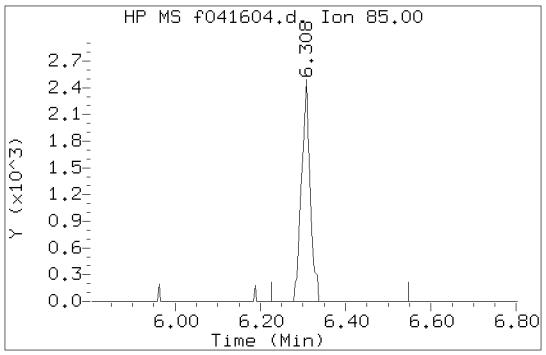

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Inj Date : 16-APR-2024 12:20
InstruID : voa11.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

BEFORE

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127
AREA
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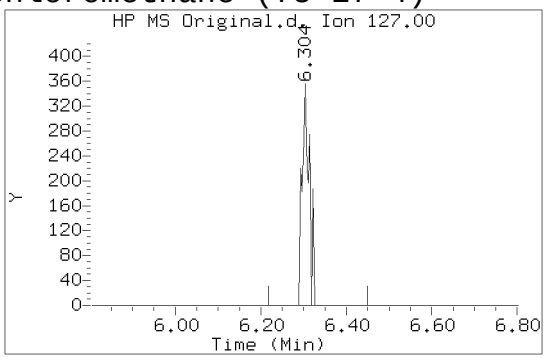
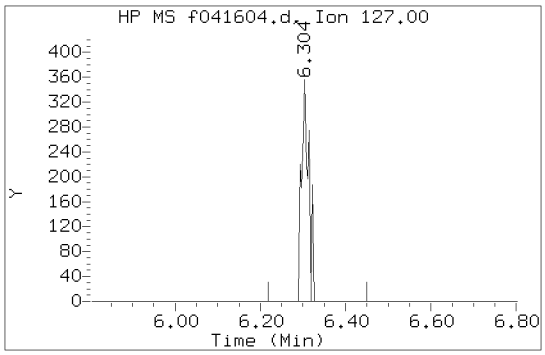
HEIGHT
356
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
127
AREA
427
HEIGHT
356
22-Apr-2024
09:21
salina
zaid

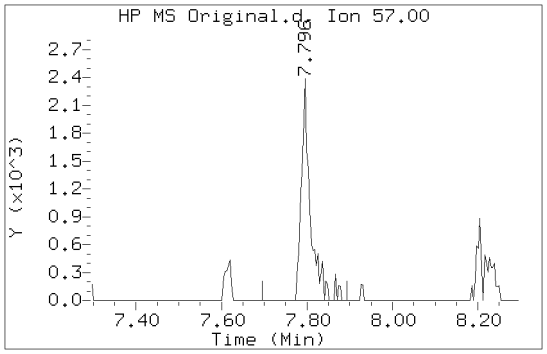


3,3-Dimethyl-1-butanol (624-95-3)

Reason Code:

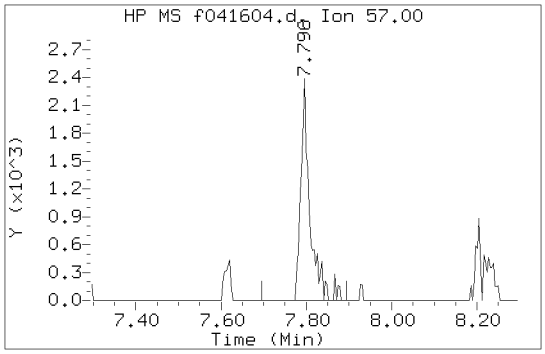
BEFORE

MASS
57
AREA
3645
HEIGHT
2386
22-Apr-2024
09:21
salina
zaid



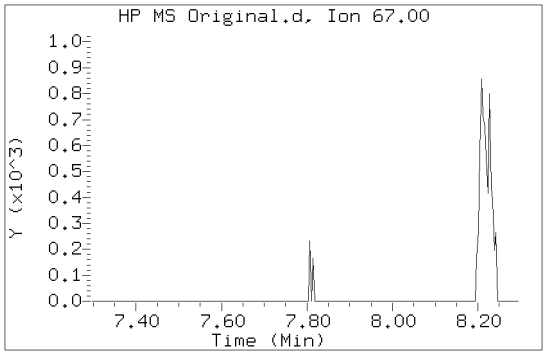
AFTER

MASS
57
AREA
3645
HEIGHT
2386
22-Apr-2024
09:21
salina
zaid



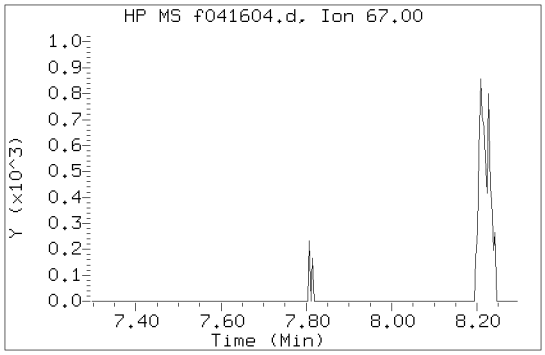
BEFORE

MASS
67
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



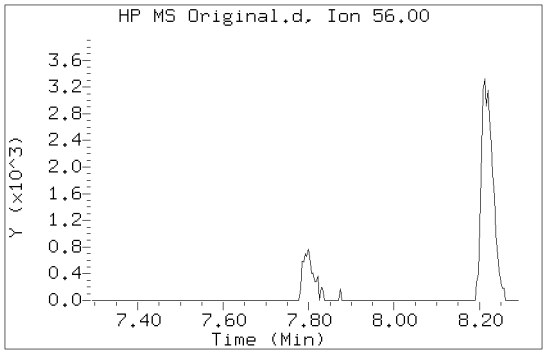
AFTER

MASS
67
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



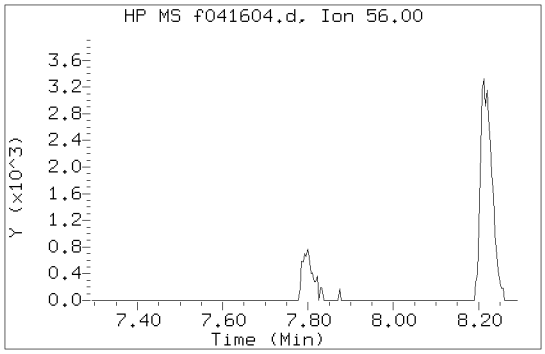
BEFORE

MASS
56
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
56
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



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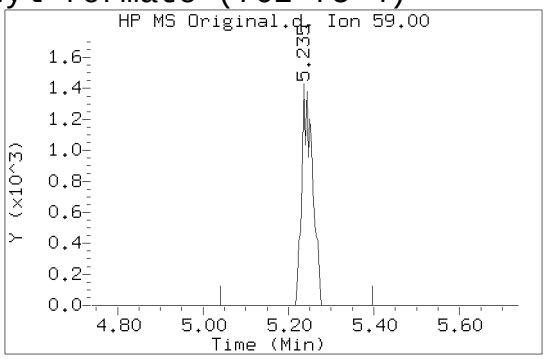
Inj Date : 16-APR-2024 12:20
InstruID : voa11.i
LabSampID : VSTD001

tert-Butyl formate (762-75-4)

Reason Code:

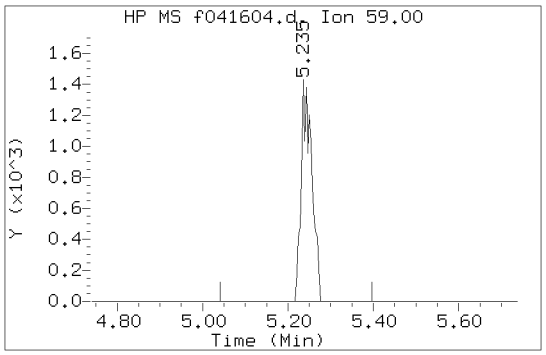
BEFORE

MASS
59
AREA
2527
HEIGHT
1430
22-Apr-2024
09:21
salina
zaid



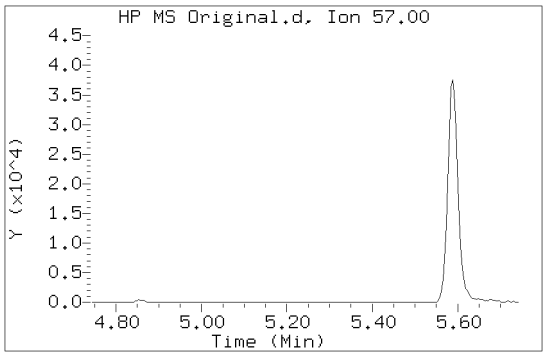
AFTER

MASS
59
AREA
2527
HEIGHT
1430
22-Apr-2024
09:21
salina
zaid



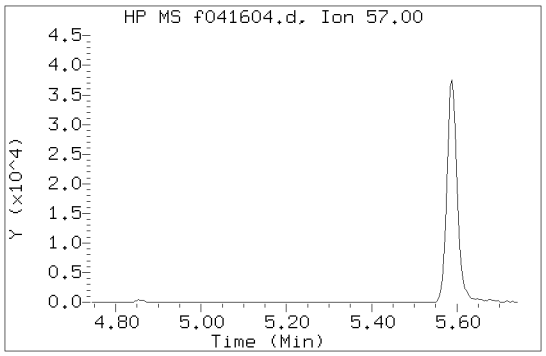
BEFORE

MASS
57
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



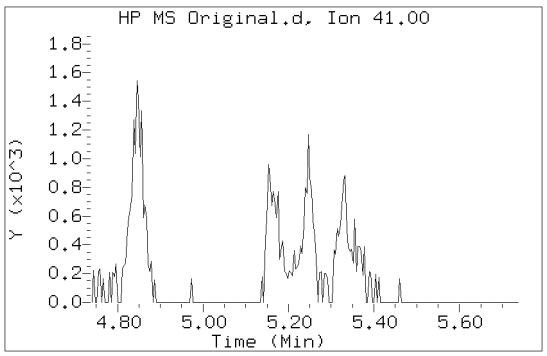
AFTER

MASS
57
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



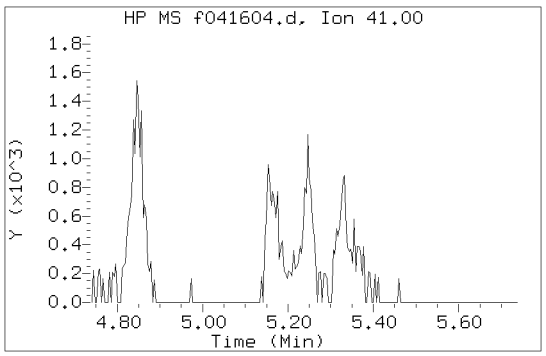
BEFORE

MASS
41
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
41
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

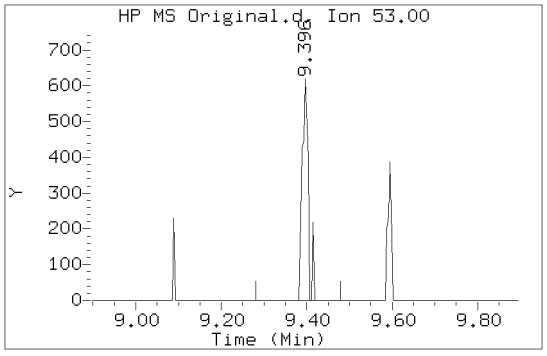


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

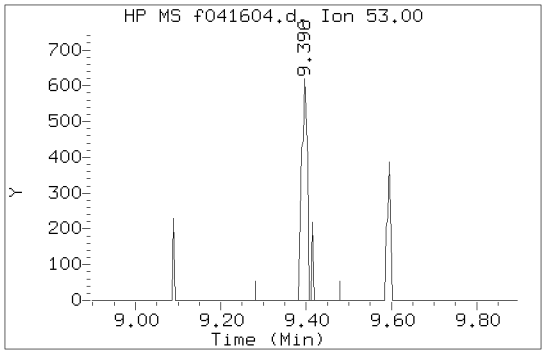
BEFORE

MASS
53
AREA
644
HEIGHT
620
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
53
AREA
644
HEIGHT
620
22-Apr-2024
09:21
salina
zaid



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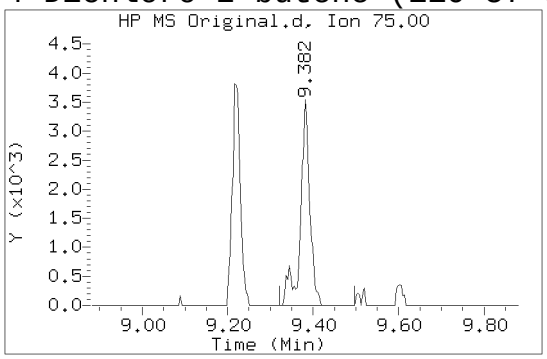
Inj Date : 16-APR-2024 12:20
InstruID : voa11.i
LabSampID : VSTD001

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

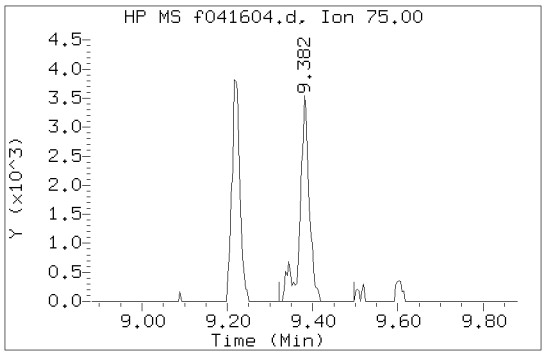
BEFORE

MASS
75
AREA
5513
HEIGHT
3542
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
75
AREA
5513
HEIGHT
3542
22-Apr-2024
09:21
salina
zaid

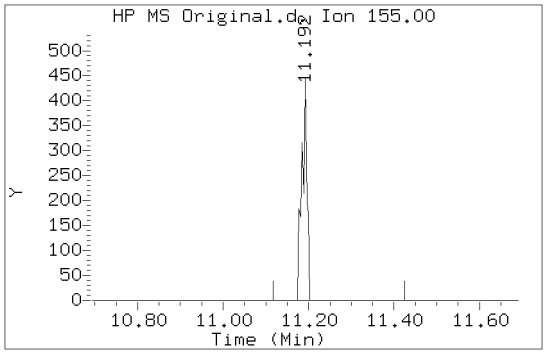


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

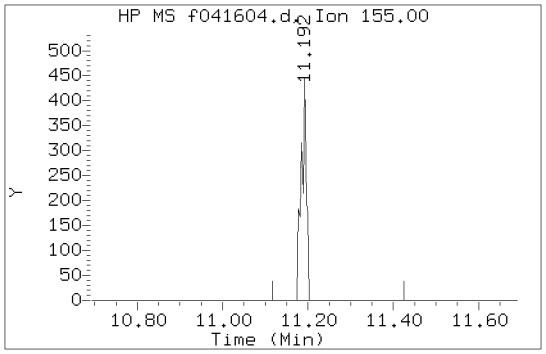
BEFORE

MASS
155
AREA
380
HEIGHT
444
22-Apr-2024
09:21
salina
zaid



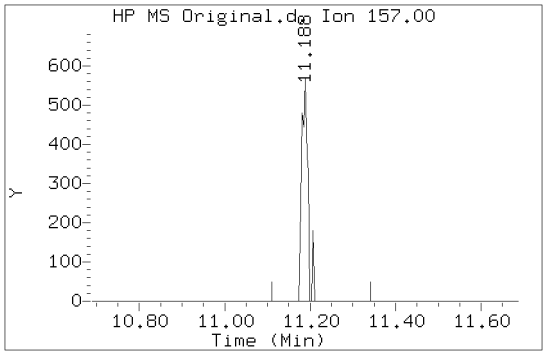
AFTER

MASS
155
AREA
380
HEIGHT
444
22-Apr-2024
09:21
salina
zaid



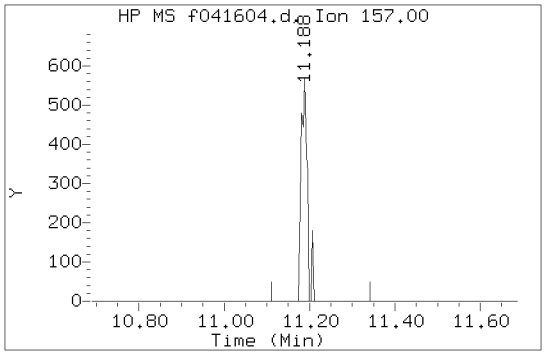
BEFORE

MASS
157
AREA
588
HEIGHT
567
22-Apr-2024
09:21
salina
zaid



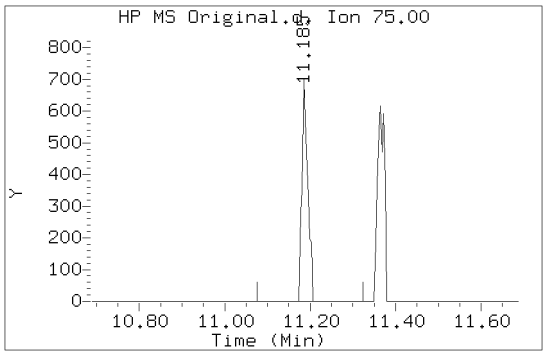
AFTER

MASS
157
AREA
588
HEIGHT
567
22-Apr-2024
09:21
salina
zaid



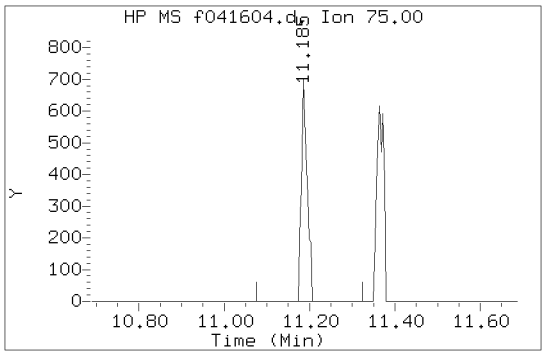
BEFORE

MASS
75
AREA
683
HEIGHT
699
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
75
AREA
683
HEIGHT
699
22-Apr-2024
09:21
salina
zaid



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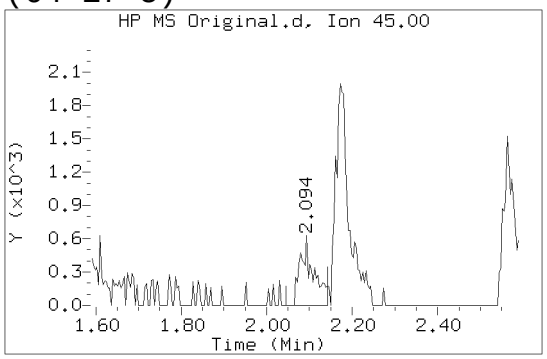
Inj Date : 16-APR-2024 12:20
InstruID : voa11.i
LabSampID : VSTD001

Ethanol (64-17-5)

Reason Code:

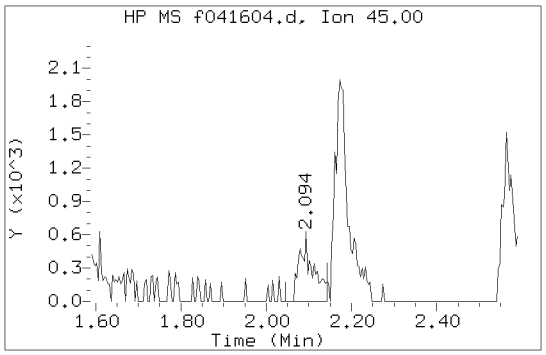
BEFORE

MASS
45
AREA
1383
HEIGHT
629
22-Apr-2024
09:21
salina
zaid



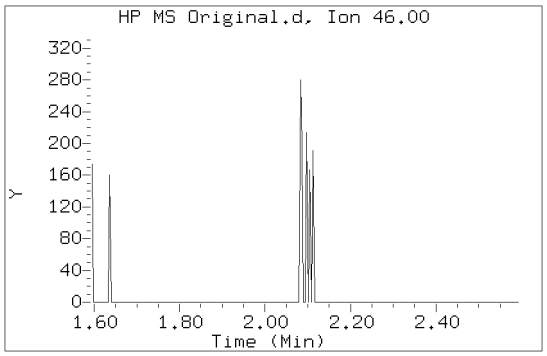
AFTER

MASS
45
AREA
1383
HEIGHT
629
22-Apr-2024
09:21
salina
zaid



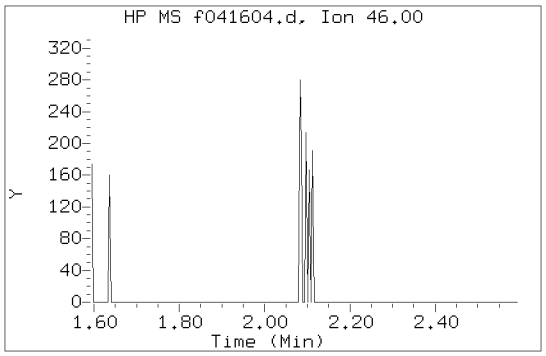
BEFORE

MASS
46
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



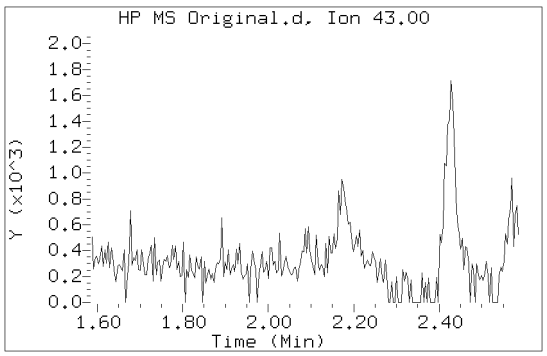
AFTER

MASS
46
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



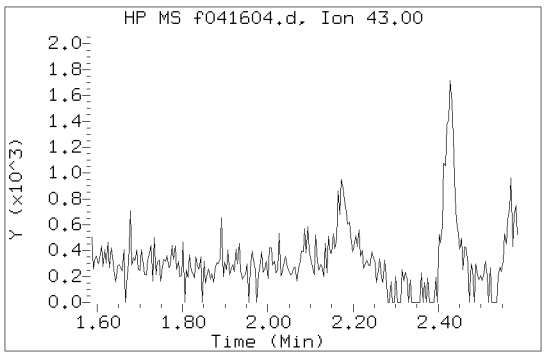
BEFORE

MASS
43
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
43
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

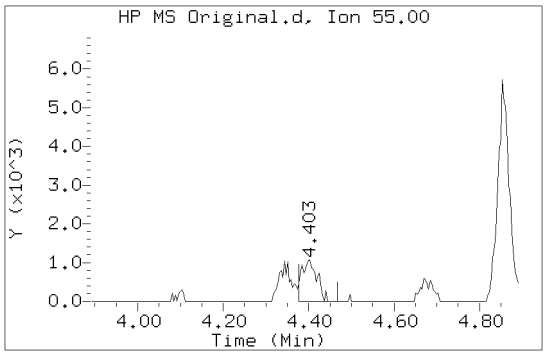


Methyl Acrylate (96-33-3)

Reason Code:

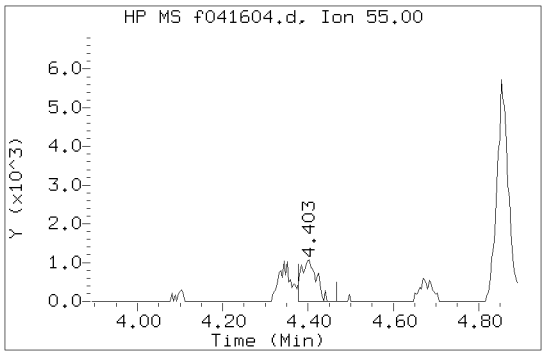
BEFORE

MASS
55
AREA
2673
HEIGHT
1072
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
55
AREA
2673
HEIGHT
1072
22-Apr-2024
09:21
salina
zaid



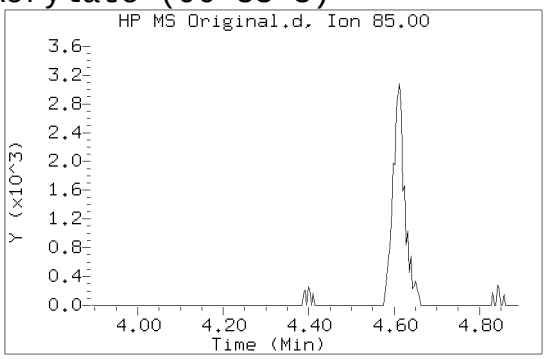
Data File : \\nahstws005\target\chem\voa11.i\f240416.b\f041604.d
Inj Date : 16-APR-2024 12:20
InstruID : voa11.i
LabSampID : VSTD001

Methyl Acrylate (96-33-3)

Reason Code:

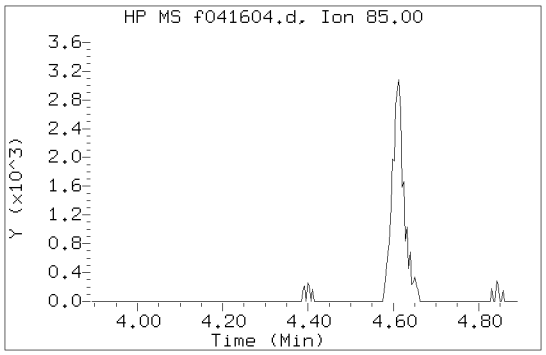
BEFORE

MASS
85
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
85
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

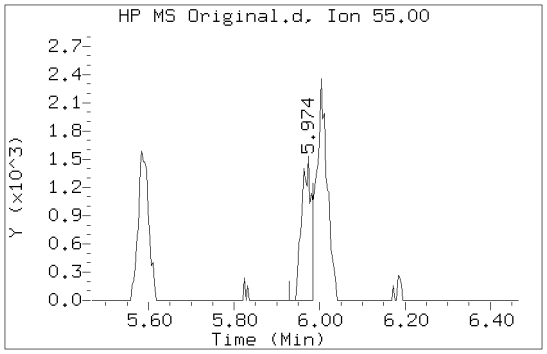


Ethyl Acrylate (140-88-5)

Reason Code:

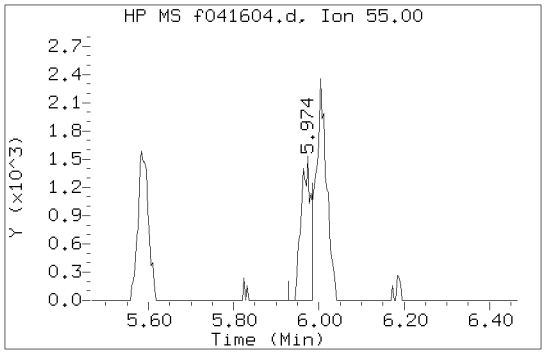
BEFORE

MASS
55
AREA
2520
HEIGHT
1529
22-Apr-2024
09:21
salina
zaid



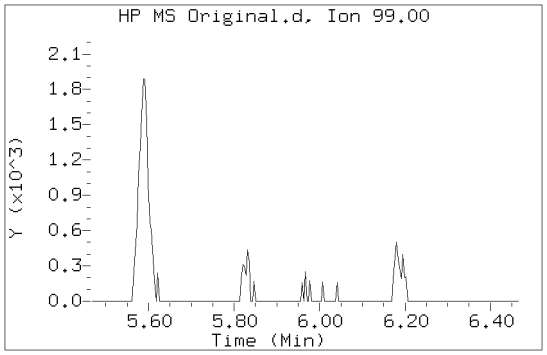
AFTER

MASS
55
AREA
2520
HEIGHT
1529
22-Apr-2024
09:21
salina
zaid



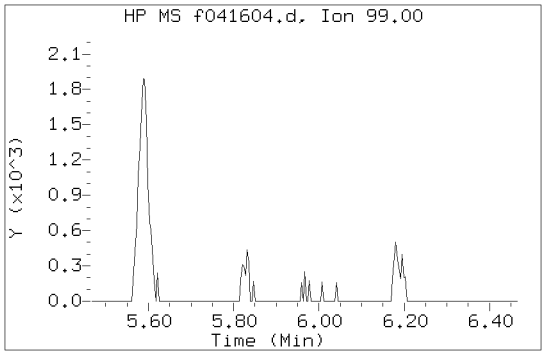
BEFORE

MASS
99
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
99
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid

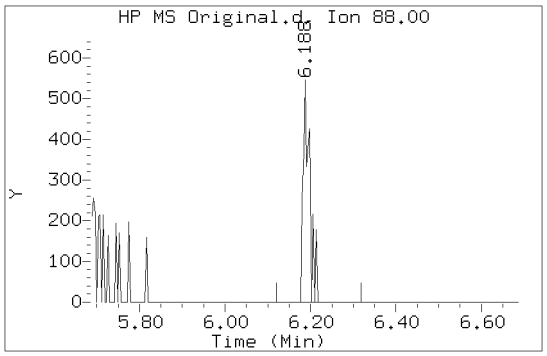


1,4-Dioxane ()

Reason Code:

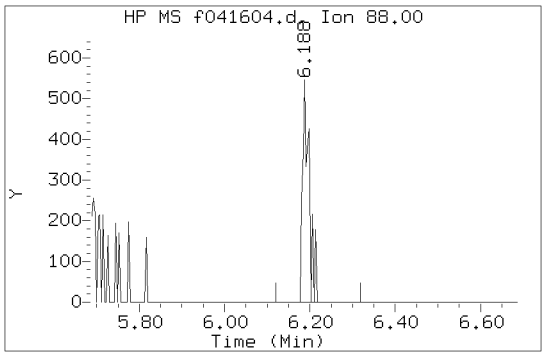
BEFORE

MASS
88
AREA
610
HEIGHT
546
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
88
AREA
610
HEIGHT
546
22-Apr-2024
09:21
salina
zaid



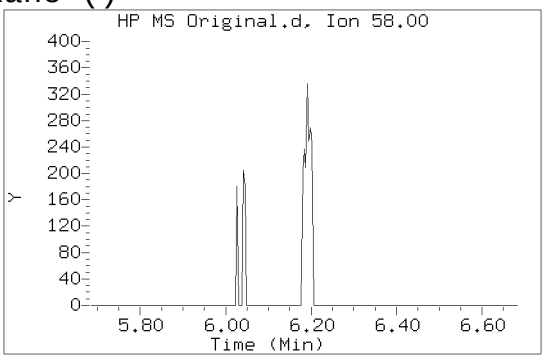
Data File : \\nahstws005\target\chem\voa11.i\f240416.b\f041604.d
Inj Date : 16-APR-2024 12:20
InstruID : voa11.i
LabSampID : VSTD001

1,4-Dioxane ()

Reason Code:

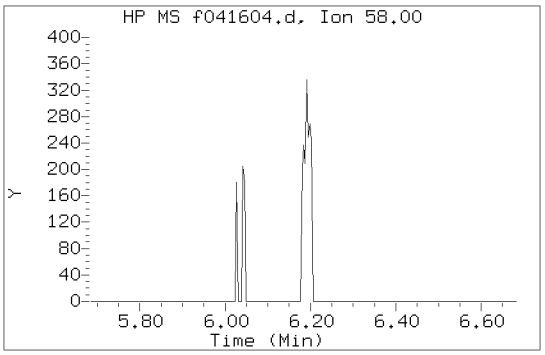
BEFORE

MASS
58
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
58
AREA
0
HEIGHT
0
22-Apr-2024
09:21
salina
zaid



Ethyl Acetate (141-78-6)

Reason Code:

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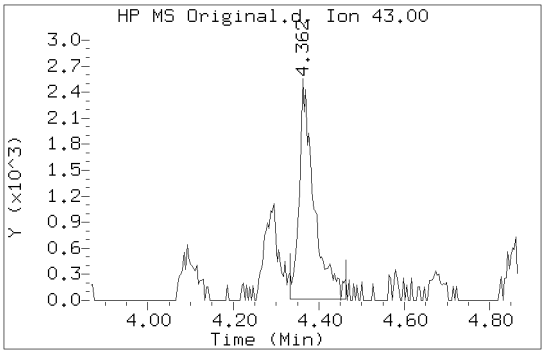

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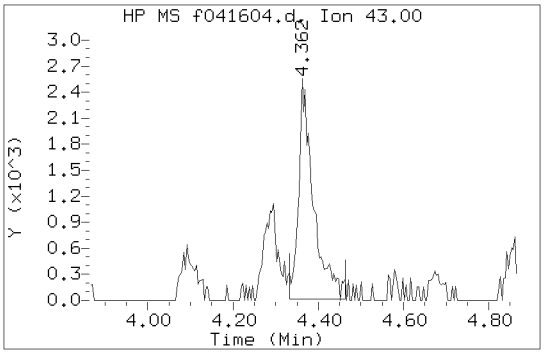

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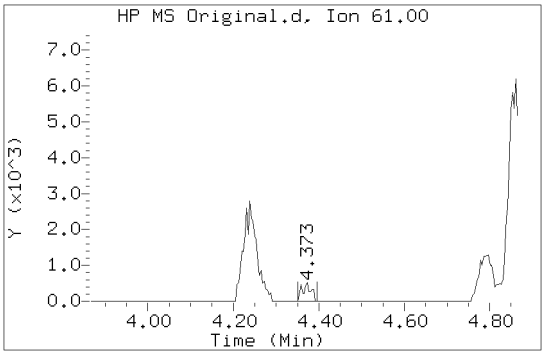

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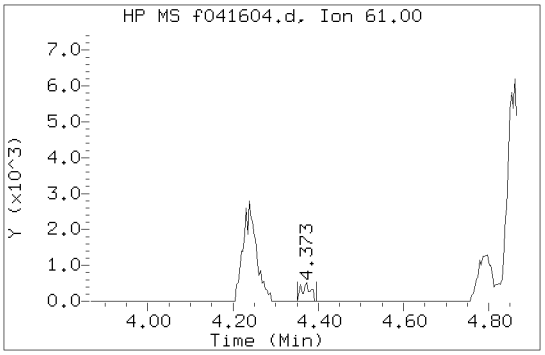

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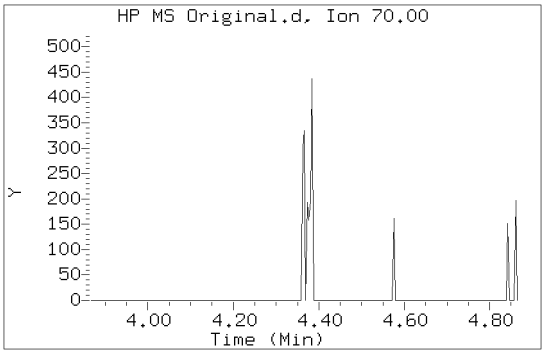

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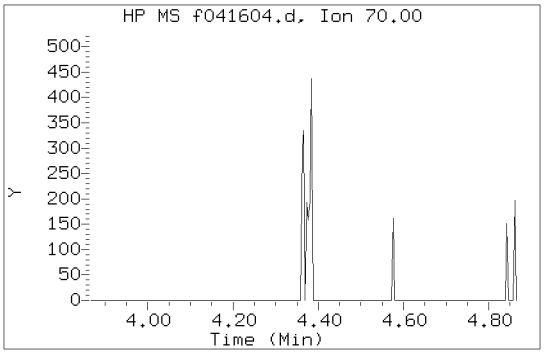

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LabSampID : VSTD001

Tetrahydrofuran (109-99-9)

Reason Code:

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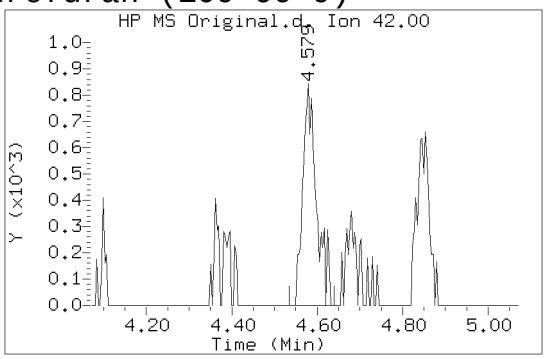

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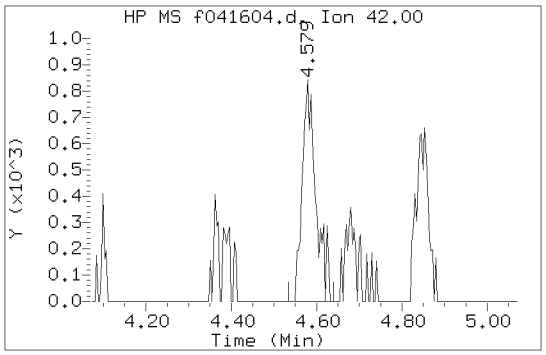

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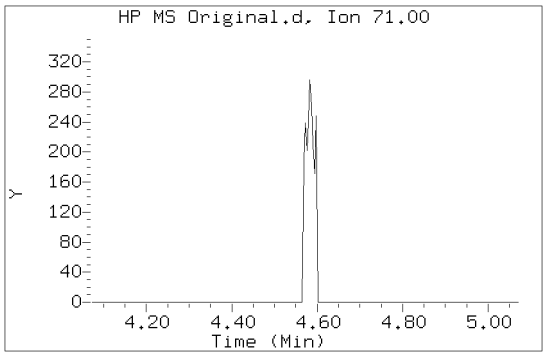

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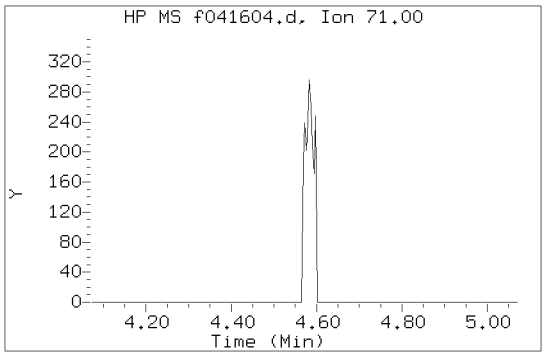

Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE

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09:21
salina
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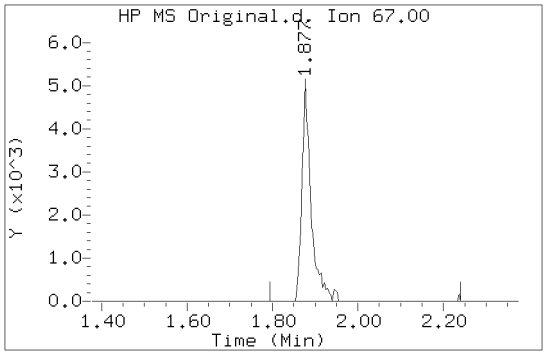

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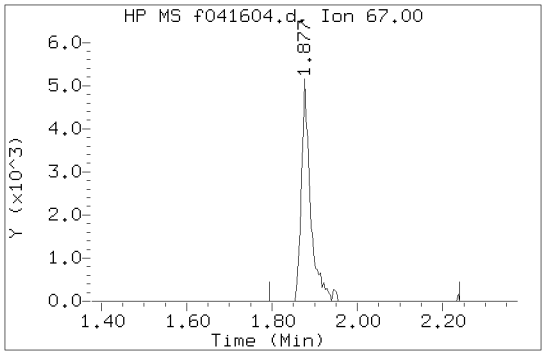

BEFORE

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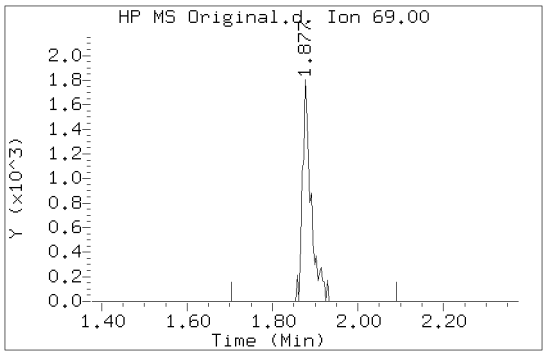

AFTER

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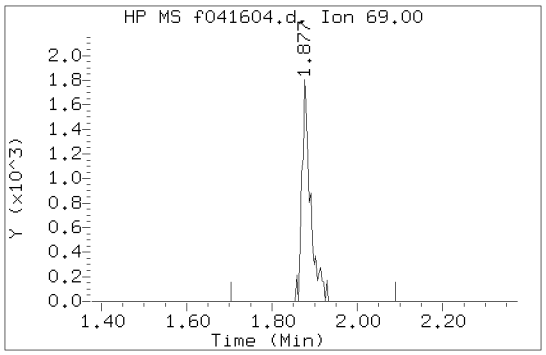

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LabSampID : VSTD001

Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE

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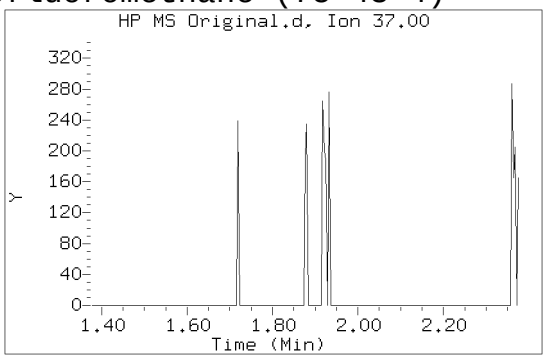

AFTER

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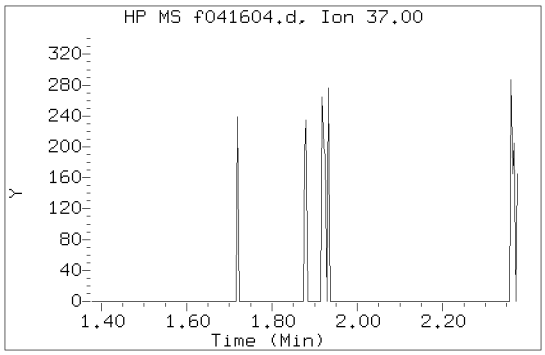

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041605.D Page 1
Report Date: 22-Apr-2024 09:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041605.D
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Inj Date : 16-APR-2024 12:42
Operator : FT Inst ID: voa11.i
Smp Info : VSTD002;VSTD002;1;4;
Misc Info : V11;WATER;0;1;
Comment :
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Cal Date : 16-APR-2024 11:36 Cal File: F041602.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.856	4.856	(1.000)	498404	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.241)	10462	2.00000	1.91
3	Chloromethane	50	1.306	1.306	(0.269)	19181	2.00000	1.99(a)
4	Propionitrile	54	4.347	4.347	(0.895)	24387	20.0000	19.34
5	Vinyl Chloride	62	1.389	1.389	(0.286)	10163	2.00000	1.91
6	Bromomethane	94	1.632	1.632	(0.336)	8598	2.00000	1.33(M)
7	Chloroethane	64	1.715	1.715	(0.353)	6948	2.00000	2.03
8	Trichlorofluoromethane	101	1.921	1.921	(0.396)	15953	2.00000	1.88
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	16436	2.00000	1.96(M)
9	Acrolein	56	2.281	2.281	(0.470)	1065	4.00000	5.49
10	Acetone	43	2.427	2.427	(0.500)	5418	4.00000	7.49
11	1,1-Dichloroethene	96	2.363	2.363	(0.487)	7640	2.00000	1.81
12	Isobutyl Alcohol	43	5.242	5.242	(1.079)	3413	40.0000	32.19(M)
13	Acetonitrile	39	2.705	2.705	(0.557)	9618	20.0000	26.77
14	Allyl Chloride	41	2.705	2.705	(0.557)	23657	2.00000	4.08
15	Iodomethane	142	2.498	2.498	(0.515)	4741	4.00000	13.74(T)
16	Acrylonitrile	53	3.076	3.076	(0.633)	6525	4.00000	7.36
17	Methylene Chloride	84	2.825	2.825	(0.582)	14274	2.00000	2.35
18	Methyl tert-butyl ether	73	3.113	3.113	(0.641)	15692	2.00000	4.56
19	Carbon Disulfide	76	2.555	2.555	(0.526)	45155	4.00000	3.52

20 trans-1,2-Dichloroethene	96	3.098	3.098 (0.638)	8970	2.00000	1.93
21 Vinyl Acetate	43	3.661	3.661 (0.754)	23179	4.00000	6.68

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041605.D Page 2
Report Date: 22-Apr-2024 09:28

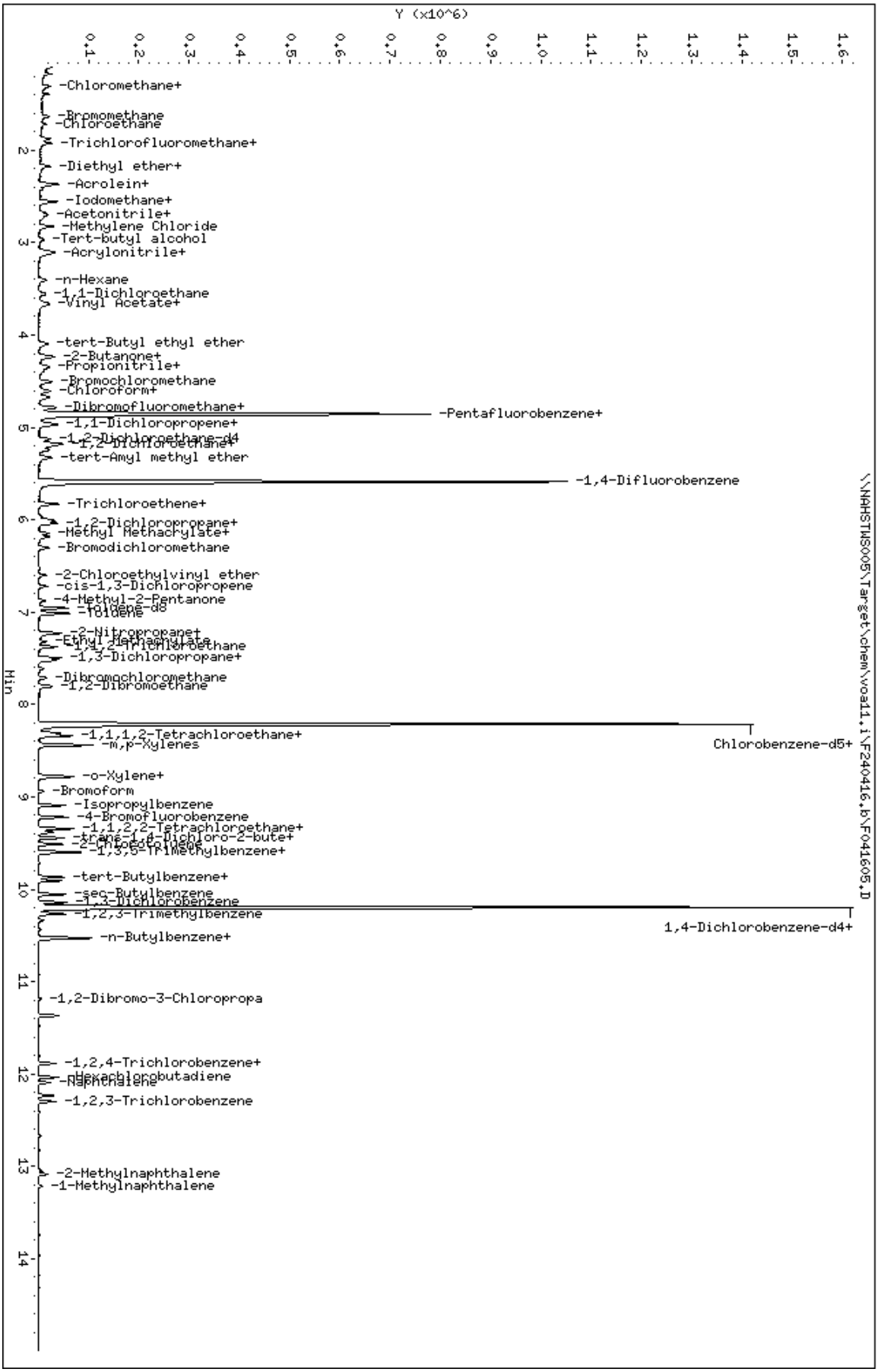
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	22 1,1-Dichloroethane	63	3.552	3.552	(0.731)	15266	2.00000	1.95
	24 2-Butanone	43	4.279	4.279	(0.881)	4791	4.00000	8.10
	25 Methacrylonitrile	41	4.238	4.238	(0.873)	7209	2.00000	1.94(a)
	26 2,2-Dichloropropane	77	4.234	4.234	(0.872)	7416	2.00000	4.41
	27 cis-1,2-Dichloroethene	96	4.242	4.242	(0.873)	9208	2.00000	1.86
	28 Chloroform	83	4.609	4.609	(0.949)	18548	2.00000	2.05
	29 Bromochloromethane	128	4.508	4.508	(0.928)	5900	2.00000	2.15
$	30 Dibromofluoromethane	113	4.781	4.781	(0.985)	12032	2.00000	2.78
	31 1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	13038	2.00000	1.82
	32 1,1-Dichloropropene	75	4.969	4.969	(0.889)	11314	2.00000	1.89
	33 1,2-Dichloroethane	62	5.201	5.201	(0.931)	15830	2.00000	2.01
	34 Carbon Tetrachloride	117	4.965	4.965	(0.889)	11131	2.00000	1.76
$	35 1,2-Dichloroethane-d4	65	5.123	5.123	(1.055)	16251	2.00000	2.80
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	755927	50.0000	
	37 Benzene	78	5.182	5.182	(0.928)	36308	2.00000	1.96
	38 Trichloroethene	130	5.827	5.827	(1.043)	10383	2.00000	1.87
	39 Bromodichloromethane	83	6.300	6.300	(1.127)	11352	2.00000	1.79
	40 Methyl Methacrylate	41	6.183	6.183	(1.273)	9015	2.00000	4.10
	41 2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	5346	4.00000	7.67
	42 1,2-Dichloropropane	63	6.041	6.041	(1.081)	9107	2.00000	1.91
	43 2-Nitropropane	43	7.229	7.229	(1.489)	9178	2.00000	1.75(a)
	44 Dibromomethane	93	6.146	6.146	(1.100)	6885	2.00000	1.99
	45 4-Methyl-2-Pentanone	43	6.877	6.877	(0.837)	9250	4.00000	4.28
	46 cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	8599	2.00000	3.86
*	47 Chlorobenzene-d5	117	8.215	8.215	(1.000)	652644	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	34119	2.00000	1.56
	49 Ethyl Methacrylate	69	7.319	7.319	(1.310)	5726	2.00000	2.39
	50 Toluene	91	7.012	7.012	(0.854)	33909	2.00000	2.45
	51 trans-1,3-Dichloropropene	75	7.222	7.222	(1.292)	6453	2.00000	2.75
	52 2-Hexanone	43	7.229	7.229	(0.880)	9178	4.00000	3.75
	53 1,1,2-Trichloroethane	83	7.375	7.375	(0.898)	8235	2.00000	2.20
	54 1,3-Dichloropropane	76	7.518	7.518	(0.915)	14783	2.00000	1.99
	55 Dibromochloromethane	129	7.713	7.713	(0.939)	7367	2.00000	4.33
	56 Tetrachloroethene	164	7.495	7.495	(0.912)	8953	2.00000	2.04
	57 1,2-Dibromoethane	107	7.810	7.810	(0.951)	8100	2.00000	2.82
	58 1-Chlorohexane	55	8.223	8.223	(1.472)	12479	2.00000	2.47
	59 Chlorobenzene	112	8.234	8.234	(1.002)	30203	2.00000	2.17
	60 1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	8324	2.00000	1.89
	61 Ethylbenzene	106	8.343	8.343	(1.016)	11351	2.00000	1.85
	62 m,p-Xylenes	106	8.440	8.440	(1.027)	25748	4.00000	3.35
	63 o-Xylene	106	8.777	8.777	(1.068)	11438	2.00000	2.59
	64 Styrene	104	8.789	8.789	(1.070)	17072	2.00000	2.22
	66 Bromoform	173	8.939	8.939	(1.088)	4037	2.00000	2.19(T)
	67 Isopropylbenzene	105	9.092	9.092	(1.107)	26322	2.00000	2.42
	68 1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	12343	2.00000	2.10
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.122)	15286	2.00000	2.63
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	350589	50.0000	
	71 1,2,3-Trichloropropane	75	9.385	9.385	(0.920)	10250	2.00000	1.95
	72 trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	1386	2.00000	1.93
	73 n-Propylbenzene	91	9.445	9.445	(0.926)	30533	2.00000	2.65
	74 Bromobenzene	156	9.347	9.347	(0.917)	9837	2.00000	3.46
	75 1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	21560	2.00000	2.63

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	21820	2.00000	2.76
77	4-Chlorotoluene	91	9.606	9.606 (0.942)	25497	2.00000	2.30

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
78 tert-Butylbenzene	119	9.868	9.868	(0.968)	18499	2.00000	3.22
79 1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	20175	2.00000	2.79
81 sec-Butylbenzene	105	10.052	10.052	(0.986)	26231	2.00000	3.10
82 p-Isopropyltoluene	119	10.180	10.180	(0.998)	22768	2.00000	3.03
83 1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	19812	2.00000	2.00
84 1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	23793	2.00000	2.10
87 n-Butylbenzene	91	10.524	10.524	(1.032)	21361	2.00000	3.43
88 1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	18973	2.00000	1.88
89 1,2-Dibromo-3-Chloropropane	155	11.192	11.192	(1.097)	932	2.00000	2.28
90 1,2,4-Trichlorobenzene	180	11.885	11.885	(1.165)	8865	2.00000	1.51
91 Hexachlorobutadiene	225	12.035	12.035	(1.180)	6223	2.00000	1.84
92 Naphthalene	128	12.095	12.095	(1.186)	13763	2.00000	2.56
93 1,2,3-Trichlorobenzene	180	12.301	12.301	(1.206)	8811	2.00000	1.60
146 Methyl acetate	43	2.731	2.731	(0.562)	9243	2.00000	1.87(a)
138 Freon TF	101	2.367	2.367	(0.488)	9349	2.00000	1.84
139 Diethyl ether	59	2.172	2.172	(0.447)	11370	2.00000	1.92(T)
141 Cyclohexane	56	4.849	4.849	(0.998)	19375	2.00000	2.37
147 Methylcyclohexane	55	6.000	6.000	(1.074)	8800	2.00000	1.27
132 n-Butanol	56	5.816	5.816	(1.198)	1923	40.0000	58.57
131 Methyl Acrylate	55	4.339	4.339	(0.893)	4132	2.00000	3.21(M)
133 Ethyl Acrylate	55	5.970	5.970	(1.229)	5683	2.00000	5.34(M)
135 1,4-Dioxane	88	6.191	6.191	(1.275)	1413	40.0000	38.54(M)
136 n-Hexane	57	3.409	3.409	(0.702)	6703	2.00000	2.69(T)
142 Tetrahydrofuran	42	4.579	4.579	(0.943)	3343	4.00000	4.99
148 Tert-butyl alcohol	59	2.967	2.967	(0.611)	7214	40.0000	55.72
149 Isopropyl alcohol	45	2.570	2.570	(0.529)	6079	40.0000	53.37(T)
151 4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	12463	40.0000	45.06
166 1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	23974	2.00000	2.96
167 Ethanol	45	2.094	2.094	(0.431)	2166	40.0000	23.48(M)
170 1,3,5-Trichlorobenzene	180	11.885	11.885	(1.165)	8865	2.00000	1.51
172 tert-Butyl formate	59	5.246	5.246	(1.080)	4988	4.00000	5.30(M)
174 tert-Amyl methyl ether	73	5.325	5.325	(1.096)	12205	2.00000	5.04(T)
175 tert-Butyl ethyl ether	59	4.092	4.092	(0.843)	14344	2.00000	4.54
160 2-Methylnaphthalene	142	13.051	13.051	(1.280)	3182	2.00000	3.82
156 Diisopropyl ether	45	3.672	3.672	(0.756)	17323	2.00000	2.49(T)
180 1-Methylnaphthalene	142	13.216	13.216	(1.296)	3696	2.00000	2.86
130 Ethyl Acetate	43	4.369	4.369	(0.900)	12155	2.00000	3.99(a)
176 tert-Amyl alcohol	59	5.246	5.246	(1.080)	4942	40.0000	53.38

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.


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
-Chloromethane+
-Bromomethane
-Chloroethane
-Trichlorofluoromethane+
-Diethyl ether+
-Acrolein+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Vinyl Acetate+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-1,2-Dichloroethane+
-tert-Amyl methyl ether
-1,4-Difluorobenzene
-Trichloroethene+
-1,2-Dichloropropane+
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-2-Nitropropane+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
Chlorobenzene-d5+
-o-Xylene+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-1,3-Dichlorobenzene
-1,2,3-Trimethylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene+
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
-1-Methylnaphthalene
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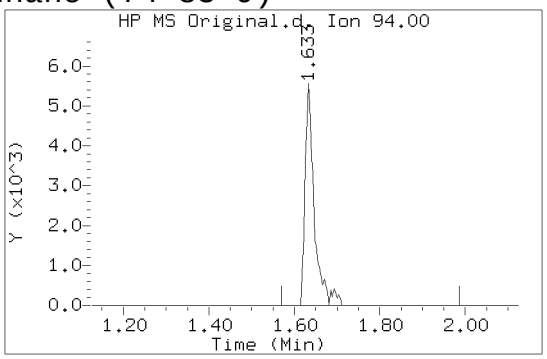
Date : 16-APR-2024 12:42
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4;
Purge Volume: 5.0
Column phase: DB624
Instrument: voa11.i
Operator: FT
Column diameter: 0.18
Page 1

Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041605.D
Inj Date : 16-APR-2024 12:42
InstruID : voa11.i
LabSampID : VSTD002

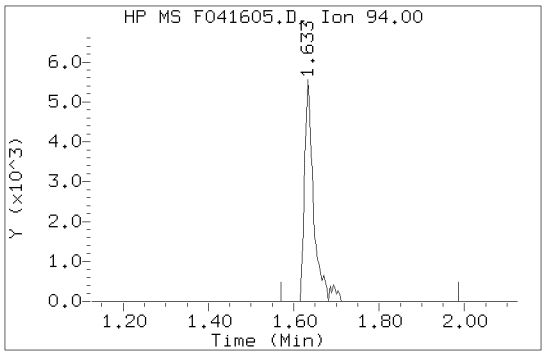
Bromomethane (74-83-9)

BEFORE
MASS
94
AREA
8598
HEIGHT
5557
22-Apr-2024
09:28
salina
zaid

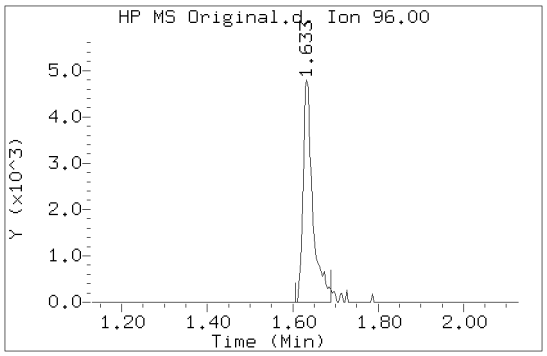


Reason Code:

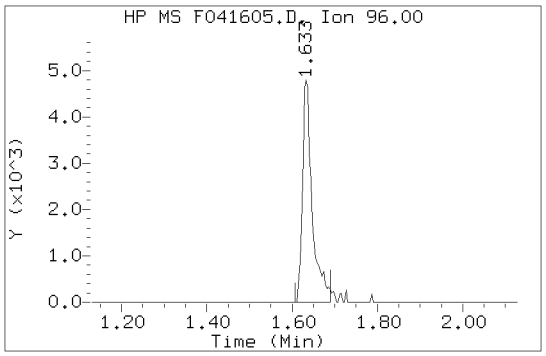
AFTER
MASS
94
AREA
8598
HEIGHT
5557
22-Apr-2024
09:28
salina
zaid



BEFORE
MASS
96
AREA
7790
HEIGHT
4799
22-Apr-2024
09:28
salina
zaid

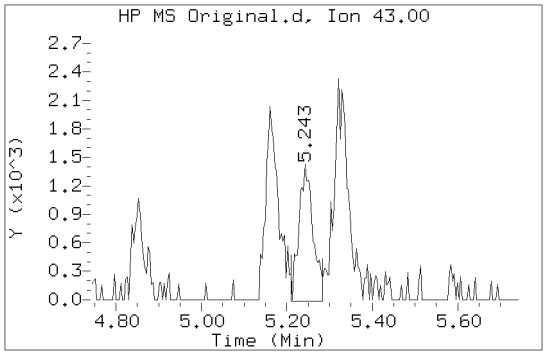


AFTER
MASS
96
AREA
7790
HEIGHT
4799
22-Apr-2024
09:28
salina
zaid



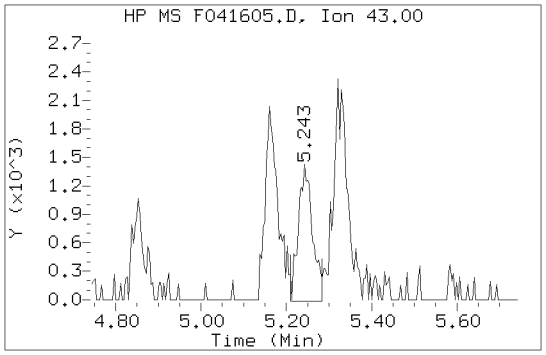
Isobutyl Alcohol (78-83-1)

BEFORE
MASS
43
AREA
3413
HEIGHT
1442
22-Apr-2024
09:28
salina
zaid

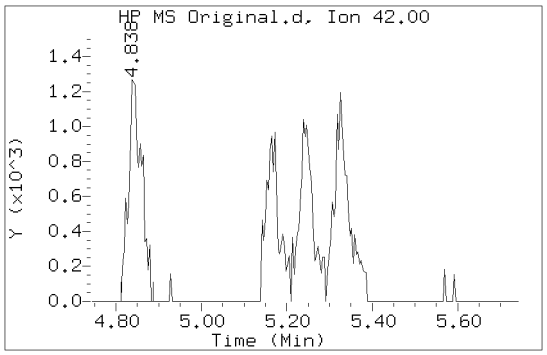


Reason Code:

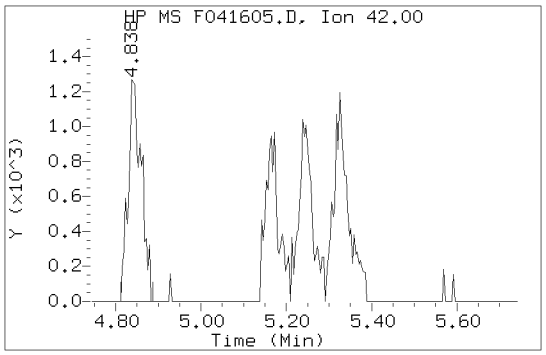
AFTER
MASS
43
AREA
3413
HEIGHT
1442
22-Apr-2024
09:28
salina
zaid



BEFORE
MASS
42
AREA
2723
HEIGHT
1268
22-Apr-2024
09:28
salina
zaid



AFTER
MASS
42
AREA
2723
HEIGHT
1268
22-Apr-2024
09:28
salina
zaid



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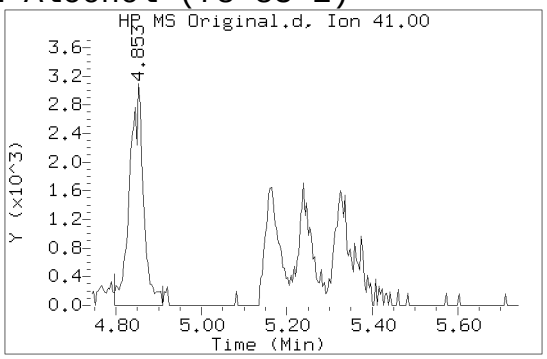
Inj Date : 16-APR-2024 12:42
InstruID : voa11.i
LabSampID : VSTD002

Isobutyl Alcohol (78-83-1)

Reason Code:

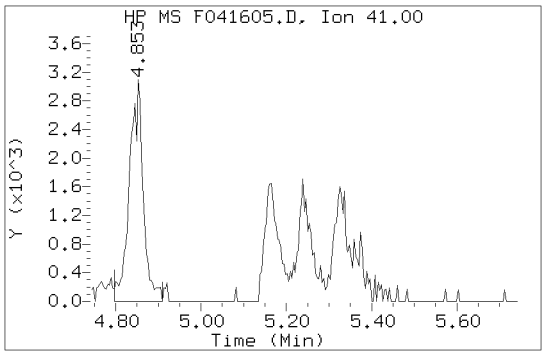
BEFORE

MASS
41
AREA
6971
HEIGHT
3096
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
41
AREA
6971
HEIGHT
3096
22-Apr-2024
09:28
salina
zaid

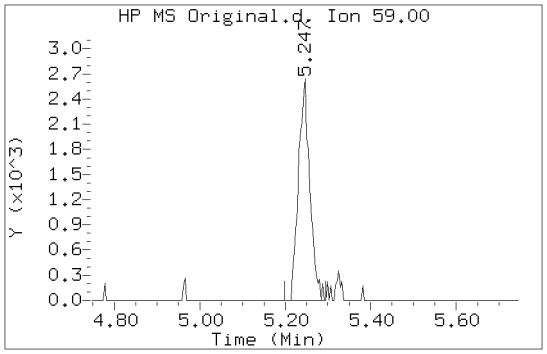


tert-Butyl formate (762-75-4)

Reason Code:

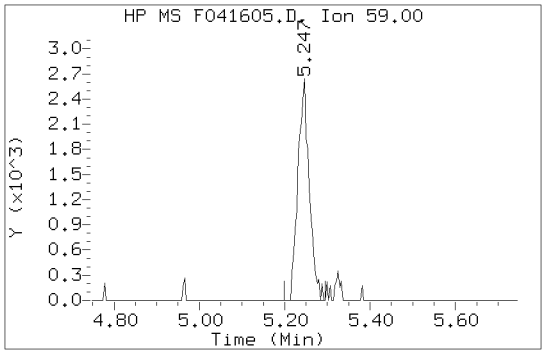
BEFORE

MASS
59
AREA
4988
HEIGHT
2643
22-Apr-2024
09:28
salina
zaid



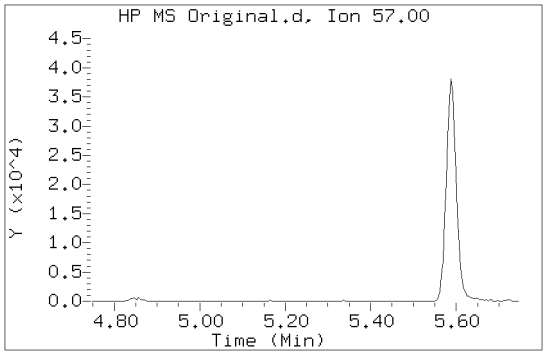
AFTER

MASS
59
AREA
4988
HEIGHT
2643
22-Apr-2024
09:28
salina
zaid



BEFORE

MASS
57
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
57
AREA
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HEIGHT
0
22-Apr-2024
09:28
salina
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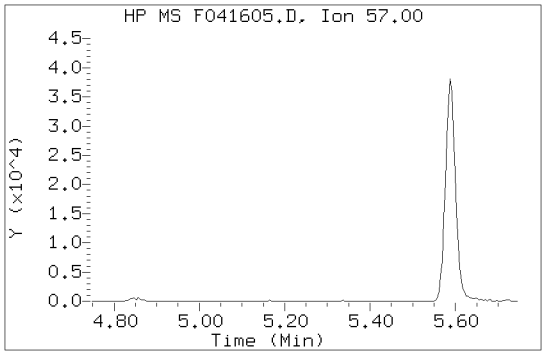

BEFORE

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HEIGHT
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22-Apr-2024
09:28
salina
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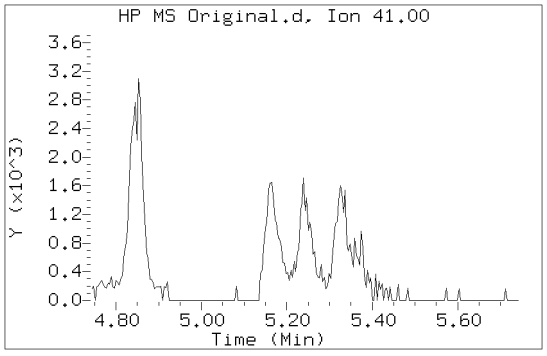

AFTER

MASS
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AREA
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HEIGHT
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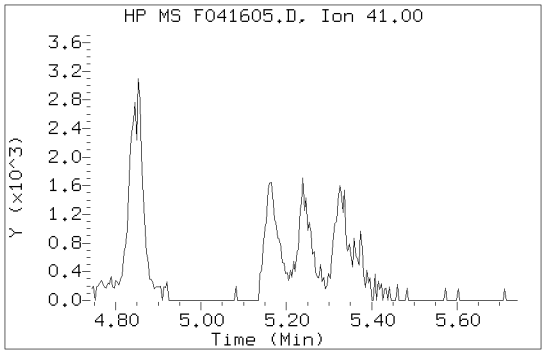
22-Apr-2024
09:28
salina
zaid



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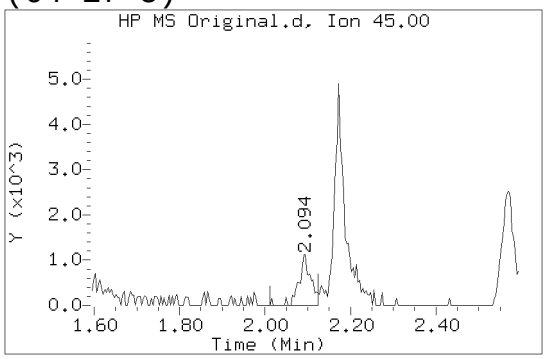
Inj Date : 16-APR-2024 12:42
InstruID : voa11.i
LabSampID : VSTD002

Ethanol (64-17-5)

Reason Code:

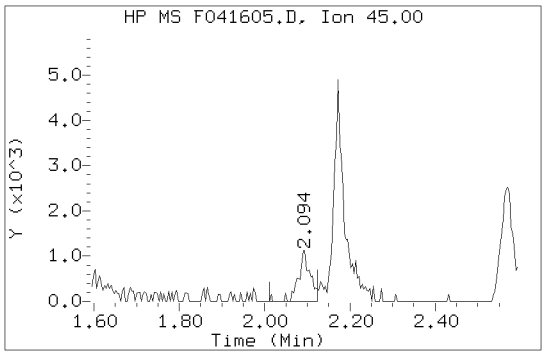
BEFORE

MASS
45
AREA
2166
HEIGHT
1125
22-Apr-2024
09:28
salina
zaid



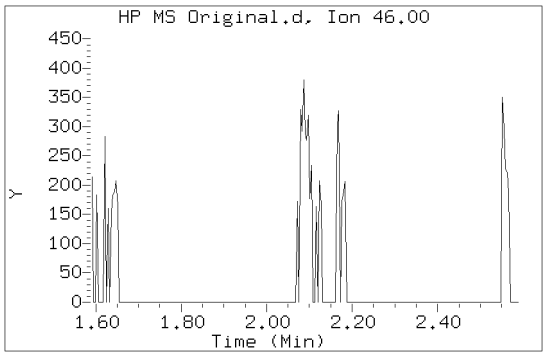
AFTER

MASS
45
AREA
2166
HEIGHT
1125
22-Apr-2024
09:28
salina
zaid



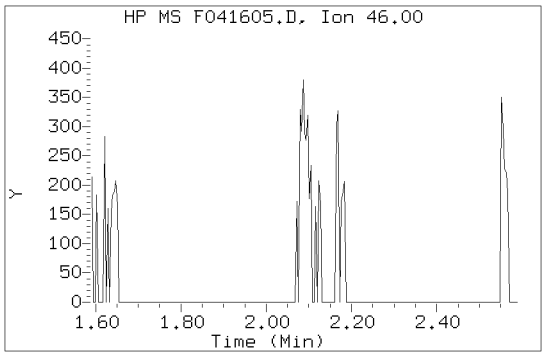
BEFORE

MASS
46
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
46
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



BEFORE

MASS
43
AREA
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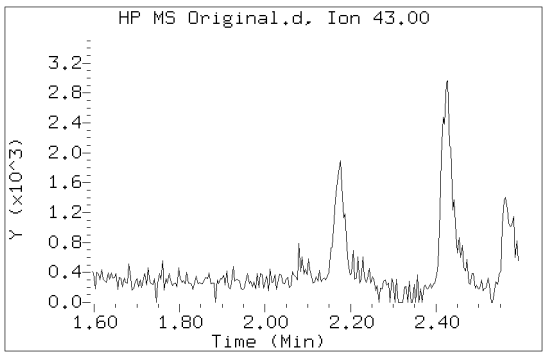
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
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AREA
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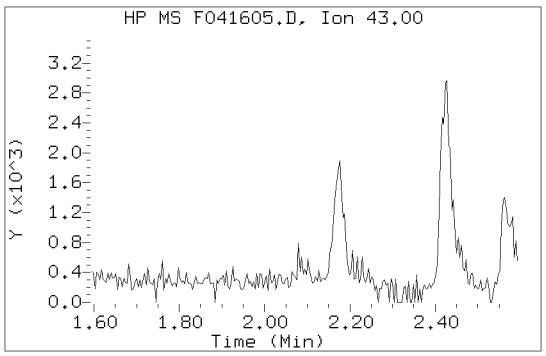
HEIGHT
0
22-Apr-2024
09:28
salina
zaid

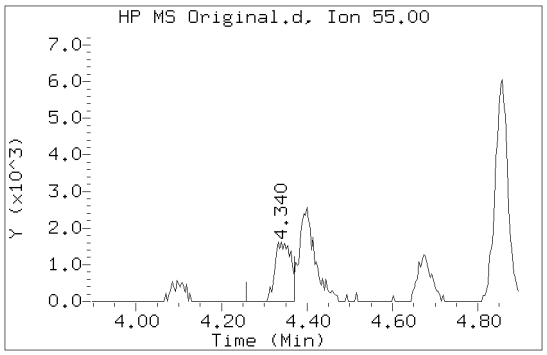


Methyl Acrylate (96-33-3)

Reason Code:

BEFORE

MASS
55
AREA
4132
HEIGHT
1625
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
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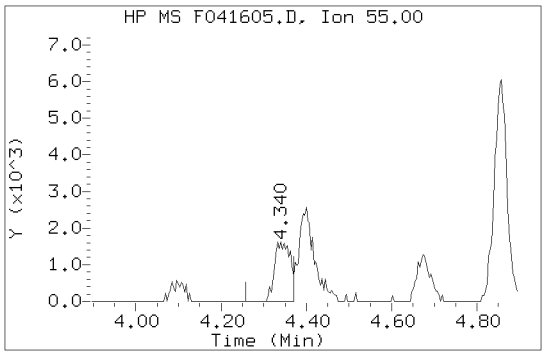
AREA
4132
HEIGHT
1625
22-Apr-2024
09:28
salina
zaid



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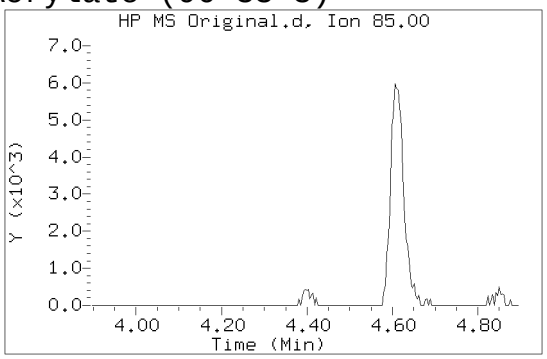
Inj Date : 16-APR-2024 12:42
InstruID : voa11.i
LabSampID : VSTD002

Methyl Acrylate (96-33-3)

Reason Code:

BEFORE

MASS
85
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
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AREA
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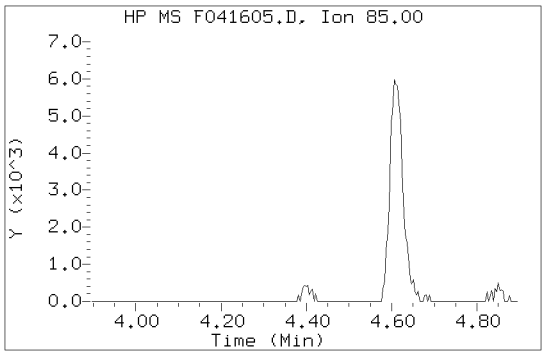
HEIGHT
0
22-Apr-2024
09:28
salina
zaid

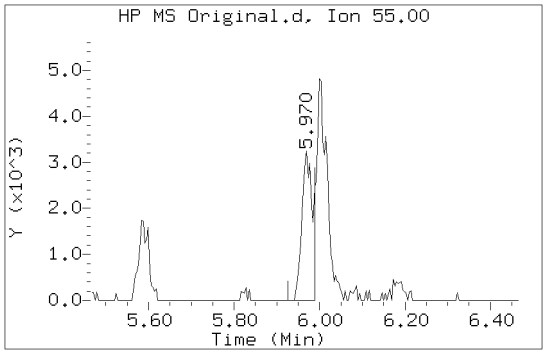


Ethyl Acrylate (140-88-5)

Reason Code:

BEFORE

MASS
55
AREA
5683
HEIGHT
3240
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
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AREA
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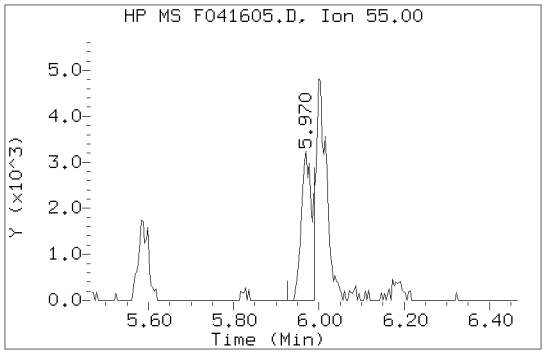
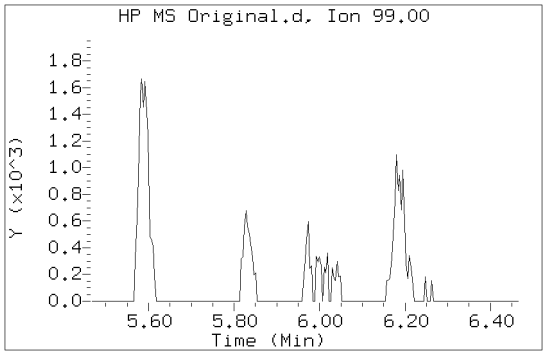
HEIGHT
3240
22-Apr-2024
09:28
salina
zaid



BEFORE

MASS
99
AREA
0
HEIGHT
0
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
99
AREA
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HEIGHT
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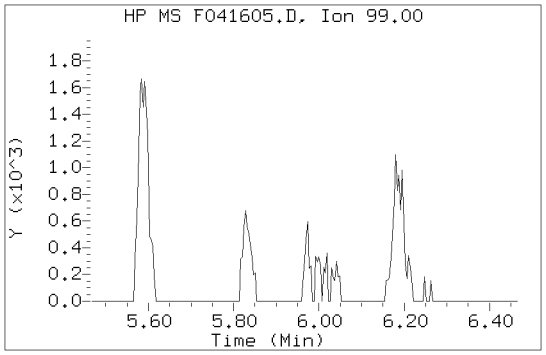
22-Apr-2024
09:28
salina
zaid

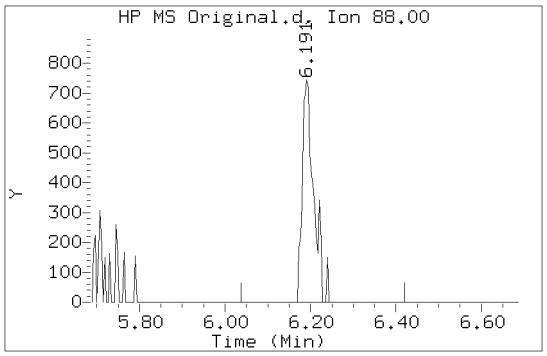


1,4-Dioxane ()

Reason Code:

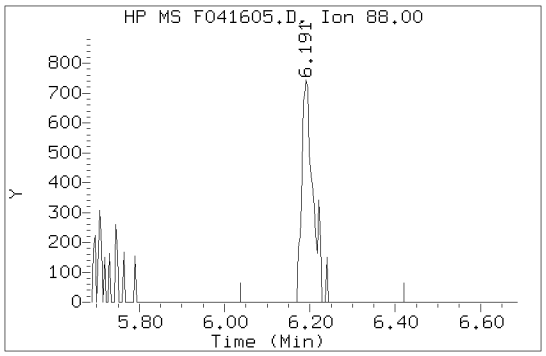
BEFORE

MASS
88
AREA
1413
HEIGHT
744
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
88
AREA
1413
HEIGHT
744
22-Apr-2024
09:28
salina
zaid



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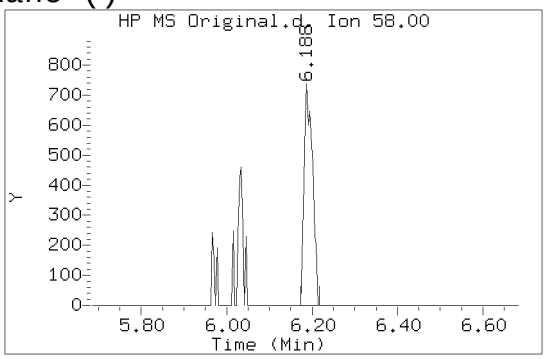
Inj Date : 16-APR-2024 12:42
InstruID : voa11.i
LabSampID : VSTD002

1,4-Dioxane ()

Reason Code:

BEFORE

MASS
58
AREA
1036
HEIGHT
738
22-Apr-2024
09:28
salina
zaid



AFTER

MASS
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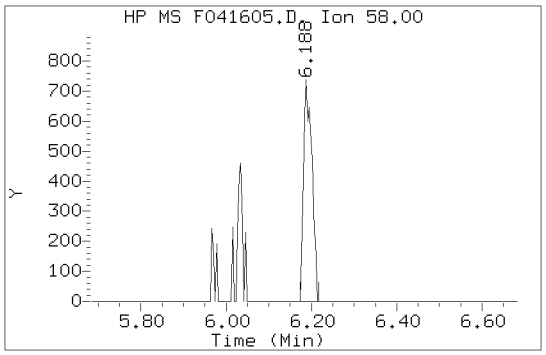
AREA
1036
HEIGHT
738
22-Apr-2024
09:28
salina
zaid

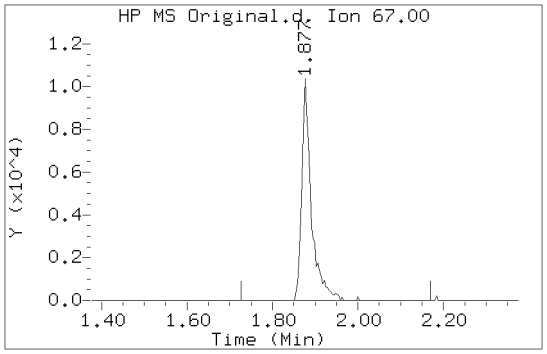


Dichlorofluoromethane (75-43-4)

Reason Code:

BEFORE

MASS
67
AREA
16436
HEIGHT
10363
22-Apr-2024
09:28
salina
zaid



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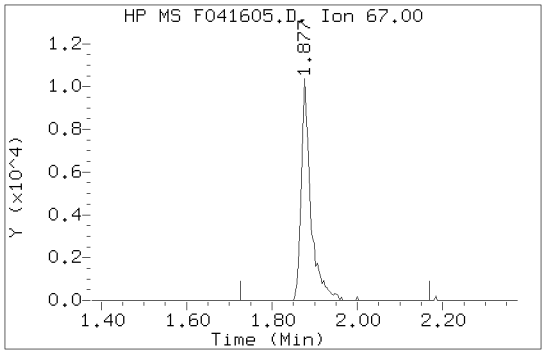

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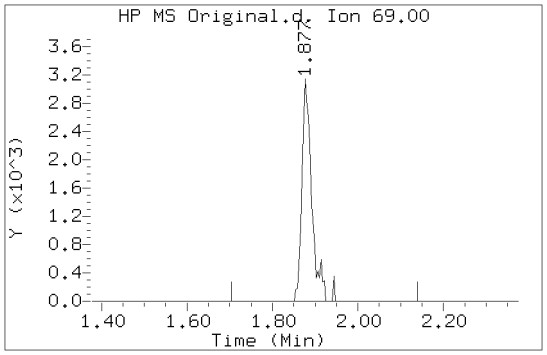

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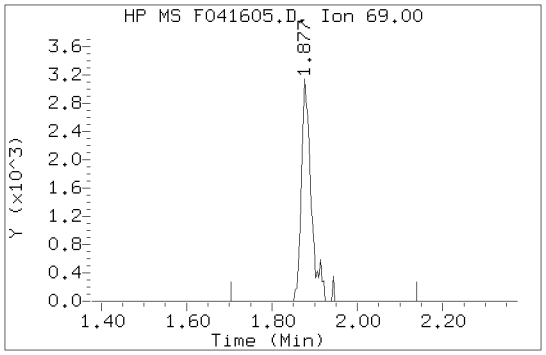

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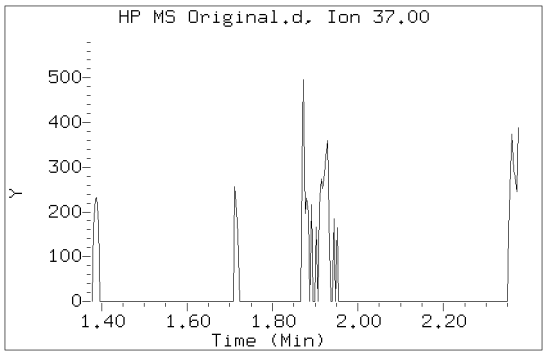

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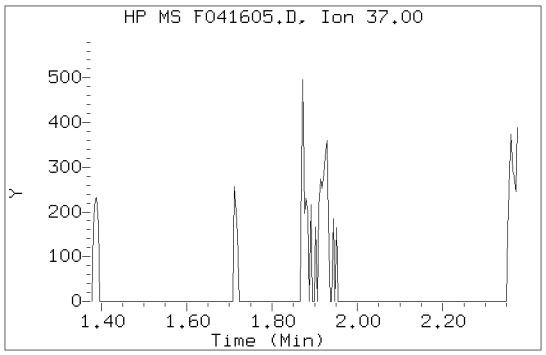

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Report Date: 22-Apr-2024 09:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041606.D
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Inj Date : 16-APR-2024 13:04
Operator : FT Inst ID: voa11.i
Smp Info : VSTD005;VSTD005;1;5;
Misc Info : V11;WATER;0;1;
Comment :
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Meth Date : 22-Apr-2024 09:28 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 12:42 Cal File: F041605.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.860	4.860	(1.000)	479446	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.241)	28742	5.00000	5.47
3	Chloromethane	50	1.307	1.307	(0.269)	45335	5.00000	4.89(a)
4	Propionitrile	54	4.339	4.339	(0.893)	60295	50.0000	49.71
5	Vinyl Chloride	62	1.389	1.389	(0.286)	26319	5.00000	5.14
6	Bromomethane	94	1.633	1.633	(0.336)	20507	5.00000	5.71(M)
7	Chloroethane	64	1.719	1.719	(0.354)	18233	5.00000	5.55
8	Trichlorofluoromethane	101	1.925	1.925	(0.396)	43935	5.00000	5.39
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	42352	5.00000	5.26
9	Acrolein	56	2.277	2.277	(0.469)	3130	10.0000	10.41
10	Acetone	43	2.420	2.420	(0.498)	13560	10.0000	13.44
11	1,1-Dichloroethene	96	2.364	2.364	(0.486)	19505	5.00000	4.81
12	Isobutyl Alcohol	43	5.239	5.239	(1.078)	7294	100.000	91.10(M)
13	Acetonitrile	39	2.705	2.705	(0.557)	24918	50.0000	53.36
14	Allyl Chloride	41	2.705	2.705	(0.557)	54231	5.00000	6.64
15	Iodomethane	142	2.499	2.499	(0.514)	10868	10.0000	15.77
16	Acrylonitrile	53	3.080	3.080	(0.634)	16135	10.0000	12.43
17	Methylene Chloride	84	2.828	2.828	(0.582)	29130	5.00000	5.30
18	Methyl tert-butyl ether	73	3.117	3.117	(0.641)	38846	5.00000	6.46
19	Carbon Disulfide	76	2.555	2.555	(0.526)	117015	10.0000	9.48

20	trans-1,2-Dichloroethene	96	3.102	3.102 (0.638)	22107	5.00000	4.96
21	Vinyl Acetate	43	3.661	3.661 (0.753)	59743	10.0000	10.89

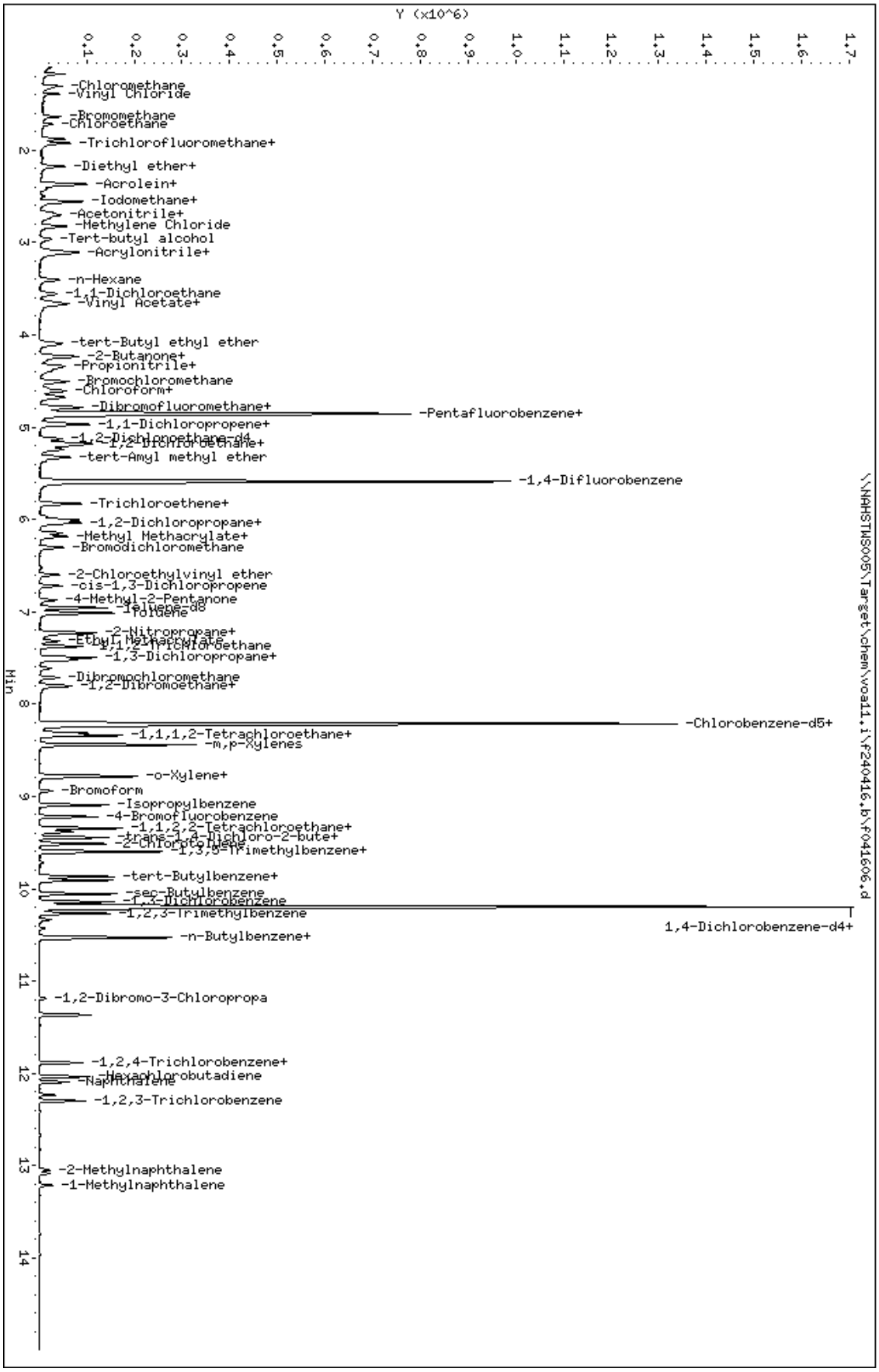
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.552	3.552	(0.731)	38193	5.00000	5.07
24	2-Butanone	43	4.283	4.283	(0.881)	13698	10.0000	12.85
25	Methacrylonitrile	41	4.234	4.234	(0.871)	18419	5.00000	5.16
26	2,2-Dichloropropane	77	4.234	4.234	(0.871)	20138	5.00000	6.66
27	cis-1,2-Dichloroethene	96	4.234	4.234	(0.871)	23962	5.00000	5.03
28	Chloroform	83	4.605	4.605	(0.948)	44394	5.00000	5.11
29	Bromochloromethane	128	4.504	4.504	(0.927)	13930	5.00000	5.29
$ 30	Dibromofluoromethane	113	4.778	4.778	(0.983)	25667	5.00000	5.77
31	1,1,1-Trichloroethane	97	4.793	4.793	(0.986)	34048	5.00000	4.96
32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	27817	5.00000	5.06
33	1,2-Dichloroethane	62	5.201	5.201	(0.931)	37693	5.00000	5.20
34	Carbon Tetrachloride	117	4.965	4.965	(0.889)	28905	5.00000	4.98
$ 35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.055)	33215	5.00000	5.83
* 36	1,4-Difluorobenzene	114	5.588	5.588	(1.000)	695692	50.0000	
37	Benzene	78	5.183	5.183	(0.928)	85083	5.00000	4.99
38	Trichloroethene	130	5.831	5.831	(1.044)	24127	5.00000	4.74
39	Bromodichloromethane	83	6.307	6.307	(1.129)	28190	5.00000	4.83
40	Methyl Methacrylate	41	6.184	6.184	(1.272)	22679	5.00000	5.75
41	2-Chloroethylvinyl ether	63	6.603	6.603	(1.182)	14311	10.0000	10.74
42	1,2-Dichloropropane	63	6.041	6.041	(1.081)	21456	5.00000	4.90
43	2-Nitropropane	43	7.229	7.229	(1.487)	22245	5.00000	4.43(a)
44	Dibromomethane	93	6.146	6.146	(1.100)	15443	5.00000	4.86
45	4-Methyl-2-Pentanone	43	6.877	6.877	(0.837)	24208	10.0000	9.56(M)
46	cis-1,3-Dichloropropene	75	6.720	6.720	(1.203)	20368	5.00000	5.46
* 47	Chlorobenzene-d5	117	8.215	8.215	(1.000)	597913	50.0000	
$ 48	Toluene-d8	98	6.956	6.956	(0.847)	75524	5.00000	4.81
49	Ethyl Methacrylate	69	7.319	7.319	(1.310)	18397	5.00000	4.55
50	Toluene	91	7.012	7.012	(0.854)	85844	5.00000	5.51
51	trans-1,3-Dichloropropene	75	7.222	7.222	(1.292)	18069	5.00000	4.77
52	2-Hexanone	43	7.229	7.229	(0.880)	22245	10.0000	9.94
53	1,1,2-Trichloroethane	83	7.376	7.376	(0.898)	18167	5.00000	5.31
54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	35213	5.00000	5.18
55	Dibromochloromethane	129	7.713	7.713	(0.939)	18107	5.00000	6.50
56	Tetrachloroethene	164	7.496	7.496	(0.912)	20904	5.00000	5.21
57	1,2-Dibromoethane	107	7.807	7.807	(0.950)	20733	5.00000	5.63
58	1-Chlorohexane	55	8.227	8.227	(1.472)	22923	5.00000	5.20
59	Chlorobenzene	112	8.238	8.238	(1.003)	66132	5.00000	5.19
60	1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	20115	5.00000	5.00
61	Ethylbenzene	106	8.339	8.339	(1.015)	29924	5.00000	5.32
62	m,p-Xylenes	106	8.440	8.440	(1.027)	75315	10.0000	10.08
63	o-Xylene	106	8.778	8.778	(1.068)	31933	5.00000	5.39
64	Styrene	104	8.789	8.789	(1.070)	50772	5.00000	4.91
66	Bromoform	173	8.939	8.939	(1.088)	10400	5.00000	5.02(T)
67	Isopropylbenzene	105	9.096	9.096	(1.107)	70937	5.00000	4.82
68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	28983	5.00000	4.74
$ 69	4-Bromofluorobenzene	95	9.220	9.220	(1.122)	30658	5.00000	5.58
* 70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	364681	50.0000	
71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	25325	5.00000	4.63
72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	4003	5.00000	4.62
73	n-Propylbenzene	91	9.441	9.441	(0.926)	90213	5.00000	4.97
74	Bromobenzene	156	9.344	9.344	(0.916)	24475	5.00000	5.70
75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	65820	5.00000	4.83

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	62639	5.00000	5.34
77	4-Chlorotoluene	91	9.606	9.606 (0.942)	76551	5.00000	4.98

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
78 tert-Butylbenzene	119	9.869	9.869	(0.968)	55815	5.00000	5.36
79 1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	66791	5.00000	5.16
81 sec-Butylbenzene	105	10.056	10.056	(0.986)	78890	5.00000	5.27
82 p-Isopropyltoluene	119	10.180	10.180	(0.998)	72059	5.00000	5.29
83 1,3-Dichlorobenzene	146	10.146	10.146	(0.995)	52524	5.00000	5.12
84 1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	58897	5.00000	5.01
87 n-Butylbenzene	91	10.528	10.528	(1.032)	54830	5.00000	5.21
88 1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	51790	5.00000	4.93
89 1,2-Dibromo-3-Chloropropane	155	11.192	11.192	(1.097)	2547	5.00000	4.41
90 1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	22937	5.00000	3.75
91 Hexachlorobutadiene	225	12.035	12.035	(1.180)	16417	5.00000	4.69
92 Naphthalene	128	12.095	12.095	(1.186)	39409	5.00000	4.14
93 1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	23869	5.00000	3.92
146 Methyl acetate	43	2.735	2.735	(0.563)	20363	5.00000	4.30(a)
138 Freon TF	101	2.375	2.375	(0.489)	25603	5.00000	5.24
139 Diethyl ether	59	2.172	2.172	(0.447)	27953	5.00000	4.92
141 Cyclohexane	56	4.845	4.845	(0.997)	37347	5.00000	5.24
147 Methylcyclohexane	55	6.007	6.007	(1.075)	24271	5.00000	4.33
132 n-Butanol	56	5.827	5.827	(1.199)	4404	100.000	95.68
131 Methyl Acrylate	55	4.395	4.395	(0.904)	15690	5.00000	5.71
133 Ethyl Acrylate	55	5.966	5.966	(1.228)	13409	5.00000	6.60
135 1,4-Dioxane	88	6.191	6.191	(1.274)	3091	100.000	74.46
136 n-Hexane	57	3.402	3.402	(0.700)	17984	5.00000	4.98
142 Tetrahydrofuran	42	4.572	4.572	(0.941)	8260	10.0000	9.39
148 Tert-butyl alcohol	59	2.963	2.963	(0.610)	18758	100.000	106.00
149 Isopropyl alcohol	45	2.562	2.562	(0.527)	12007	100.000	86.74(T)
151 4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	33069	100.000	82.27
166 1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	66355	5.00000	5.31
167 Ethanol	45	2.097	2.097	(0.432)	5038	100.000	102.87
170 1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	22937	5.00000	3.75
172 tert-Butyl formate	59	5.243	5.243	(1.079)	11230	10.0000	9.61(M)
173 3,3-Dimethyl-1-butanol	57	7.796	7.796	(0.949)	20350	100.000	79.81
174 tert-Amyl methyl ether	73	5.325	5.325	(1.096)	32019	5.00000	6.81
175 tert-Butyl ethyl ether	59	4.092	4.092	(0.842)	37670	5.00000	6.49
160 2-Methylnaphthalene	142	13.047	13.047	(1.279)	8493	5.00000	4.80
156 Diisopropyl ether	45	3.664	3.664	(0.754)	49397	5.00000	4.87(T)
180 1-Methylnaphthalene	142	13.209	13.209	(1.295)	11279	5.00000	4.28
130 Ethyl Acetate	43	4.365	4.365	(0.898)	29708	5.00000	6.00
176 tert-Amyl alcohol	59	5.243	5.243	(1.079)	11274	100.000	97.22

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



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Sample Info: VSTD005;VSTD005;1;5;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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Inj Date : 16-APR-2024 13:04
InstruID : voa11.i
LabSampID : VSTD005

Bromomethane (74-83-9)

Reason Code:

BEFORE

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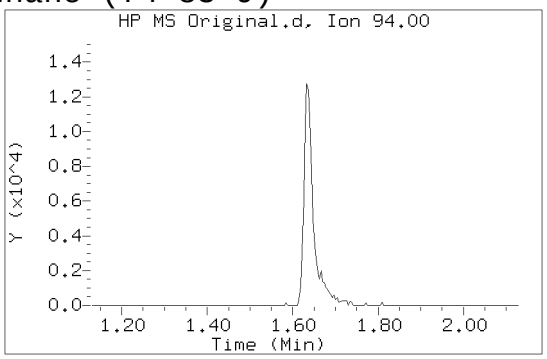
12755
22-Apr-2024
09:28
salina
zaid



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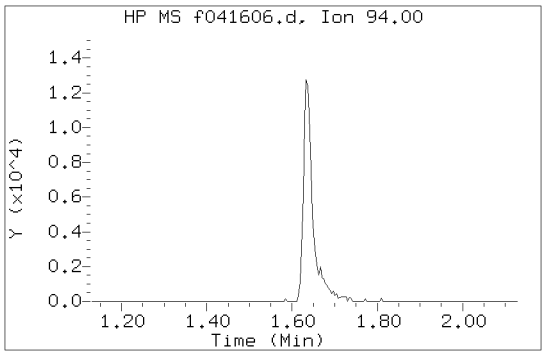

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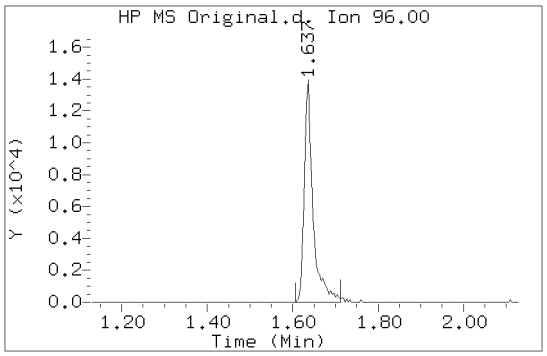

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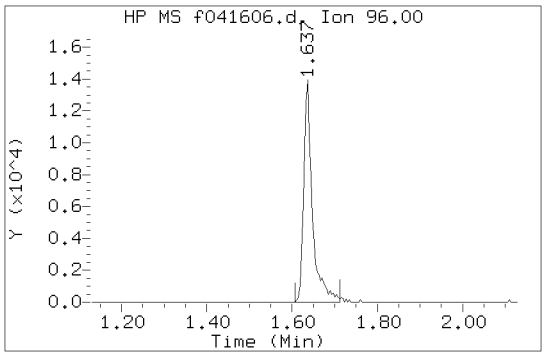

Isobutyl Alcohol (78-83-1)

Reason Code:

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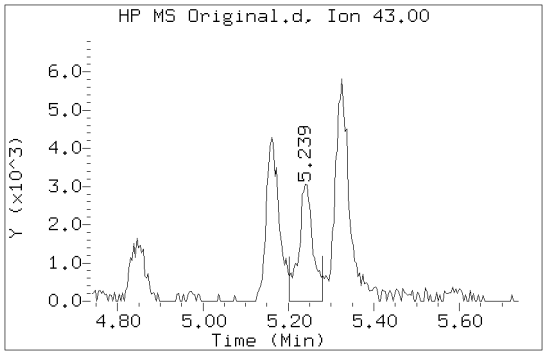

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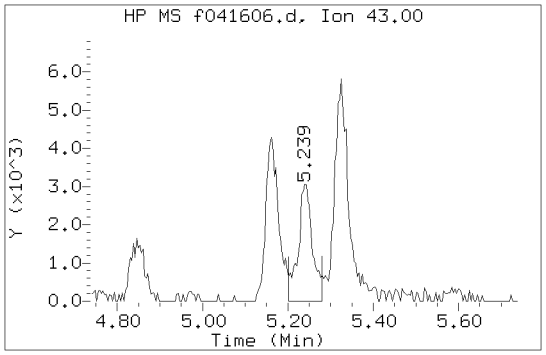

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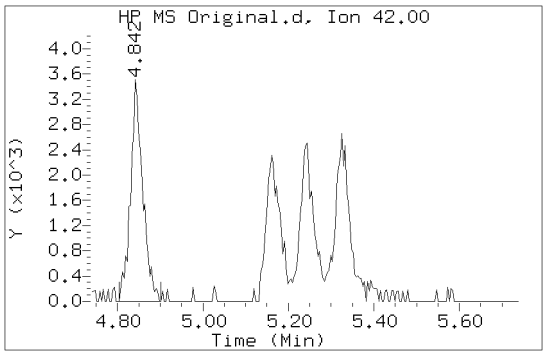

AFTER

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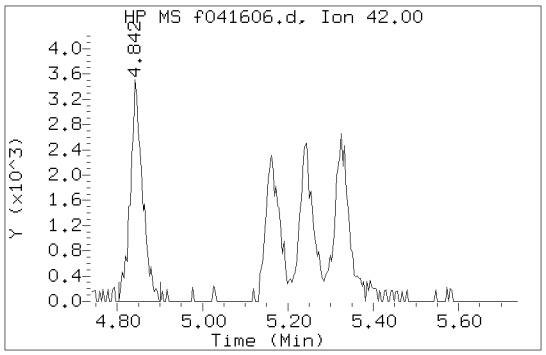

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Inj Date : 16-APR-2024 13:04
InstruID : voa11.i
LabSampID : VSTD005

Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE

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22-Apr-2024
09:28
salina
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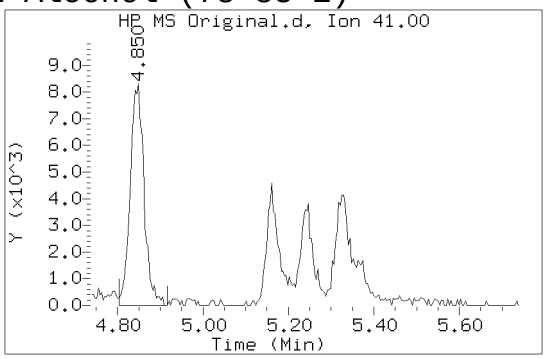

AFTER

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22-Apr-2024
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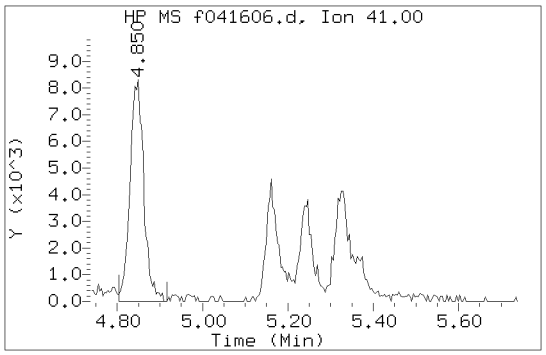

4-Methyl-2-Pentanone (108-10-1)

Reason Code:

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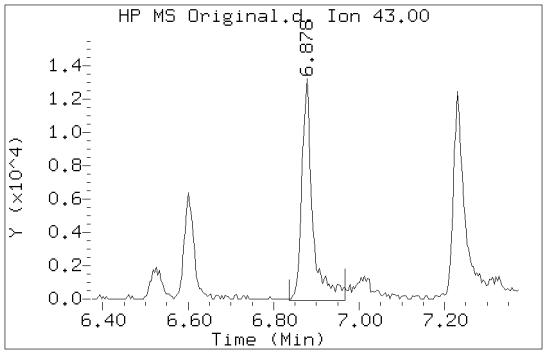

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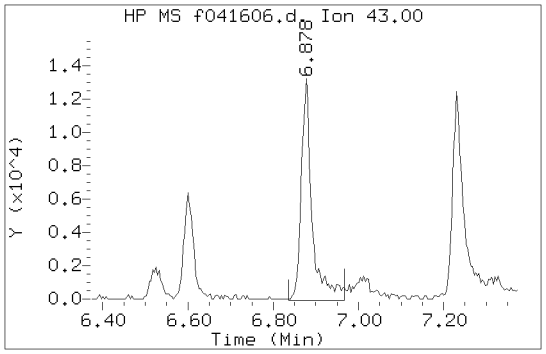

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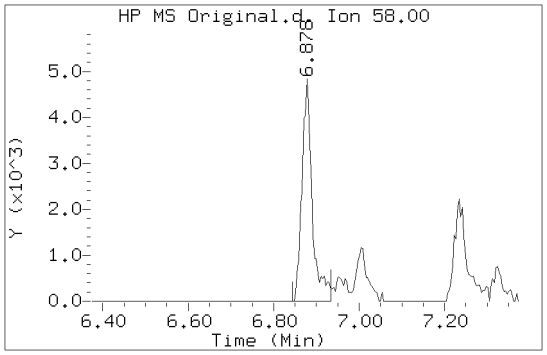

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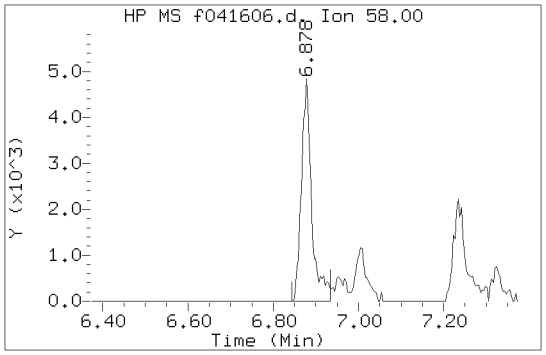

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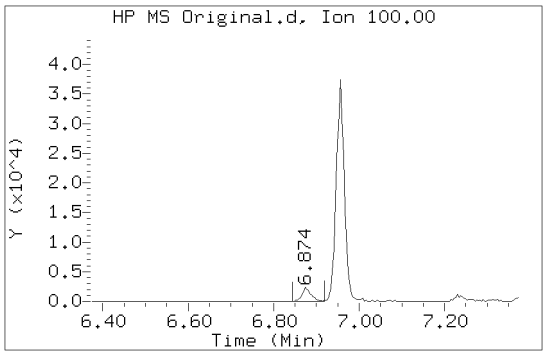

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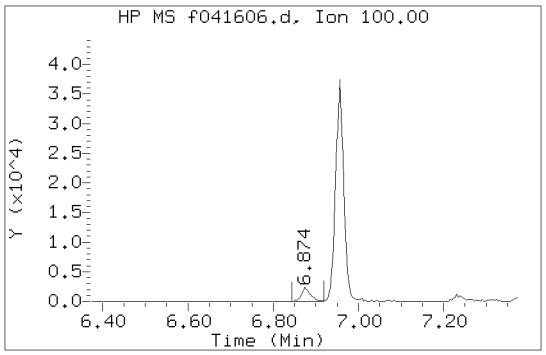

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Inj Date : 16-APR-2024 13:04
InstruID : voa11.i
LabSampID : VSTD005

tert-Butyl formate (762-75-4)

Reason Code:

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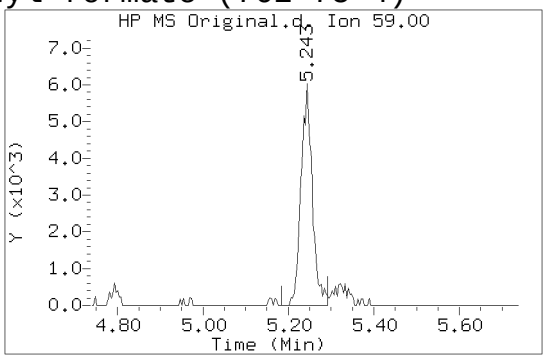

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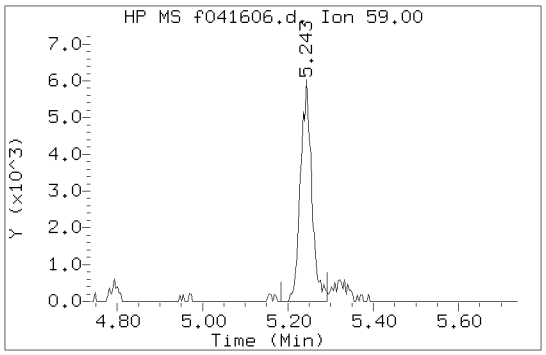

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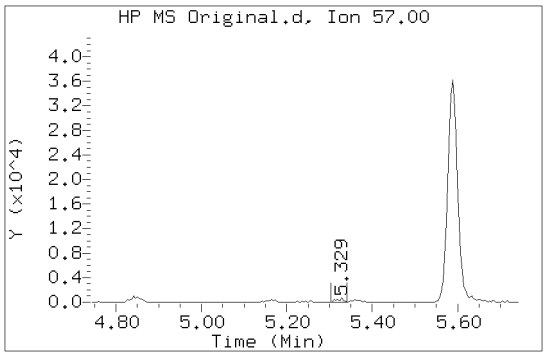

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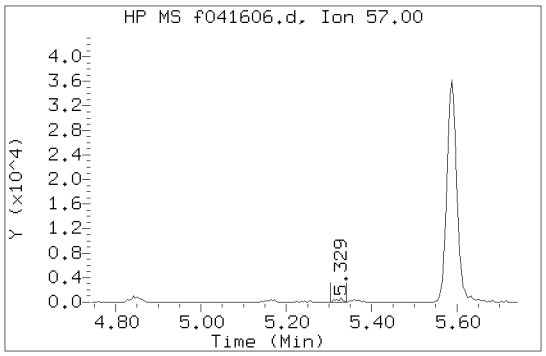

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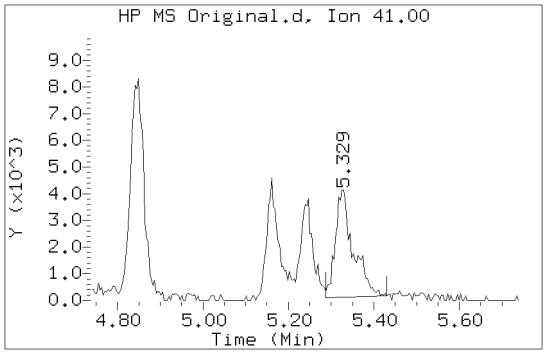

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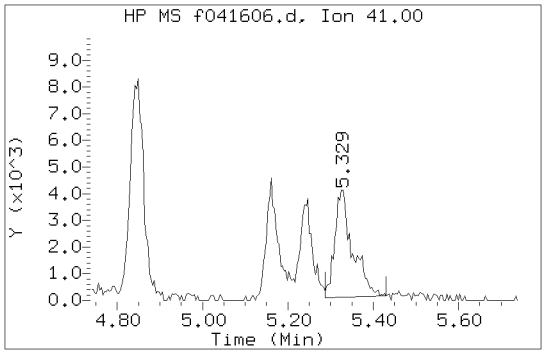

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Report Date: 22-May-2024 10:44

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D
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Inj Date : 16-APR-2024 13:26
Operator : FT Inst ID: voa11.i
Smp Info : VSTD010;VSTD010;1;6;
Misc Info : V11;WATER;0;1;
Comment :
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Meth Date : 22-May-2024 10:43 s.zaid Quant Type: ISTD
Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.856	4.856	(1.000)	481388	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.241)	54458	10.3238	10.32
3	Chloromethane	50	1.306	1.306	(0.269)	91852	9.88556	9.88
4	Propionitrile	54	4.343	4.339	(0.894)	131124	107.684	107.68
5	Vinyl Chloride	62	1.389	1.389	(0.286)	51842	10.1007	10.10
6	Bromomethane	94	1.636	1.632	(0.337)	37896	11.8356	11.83(M)
7	Chloroethane	64	1.719	1.715	(0.354)	34730	10.5308	10.53
8	Trichlorofluoromethane	101	1.925	1.925	(0.396)	83313	10.1954	10.19
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	81747	10.1156	10.11
9	Acrolein	56	2.277	2.281	(0.469)	6816	18.9139	18.91(M)
10	Acetone	43	2.423	2.423	(0.499)	24781	21.3644	21.36
11	1,1-Dichloroethene	96	2.367	2.363	(0.487)	41328	10.1509	10.15
12	Isobutyl Alcohol	43	5.242	5.239	(1.080)	14705	198.002	198.00(M)
13	Acetonitrile	39	2.705	2.705	(0.557)	52220	99.3631	99.36
14	Allyl Chloride	41	2.701	2.701	(0.556)	77974	8.55925	8.55
15	Iodomethane	142	2.498	2.495	(0.515)	27549	21.0852	21.08
16	Acrylonitrile	53	3.076	3.076	(0.633)	34835	21.9723	21.97
17	Methylene Chloride	84	2.825	2.825	(0.582)	57084	10.6033	10.60
18	Methyl tert-butyl ether	73	3.117	3.113	(0.642)	87928	10.3612	10.36
19	Carbon Disulfide	76	2.555	2.555	(0.526)	246708	19.9218	19.92

20 trans-1,2-Dichloroethene	96	3.102	3.098 (0.639)	47107	10.5421	10.54
21 Vinyl Acetate	43	3.657	3.642 (0.753)	135278	19.3345	19.33

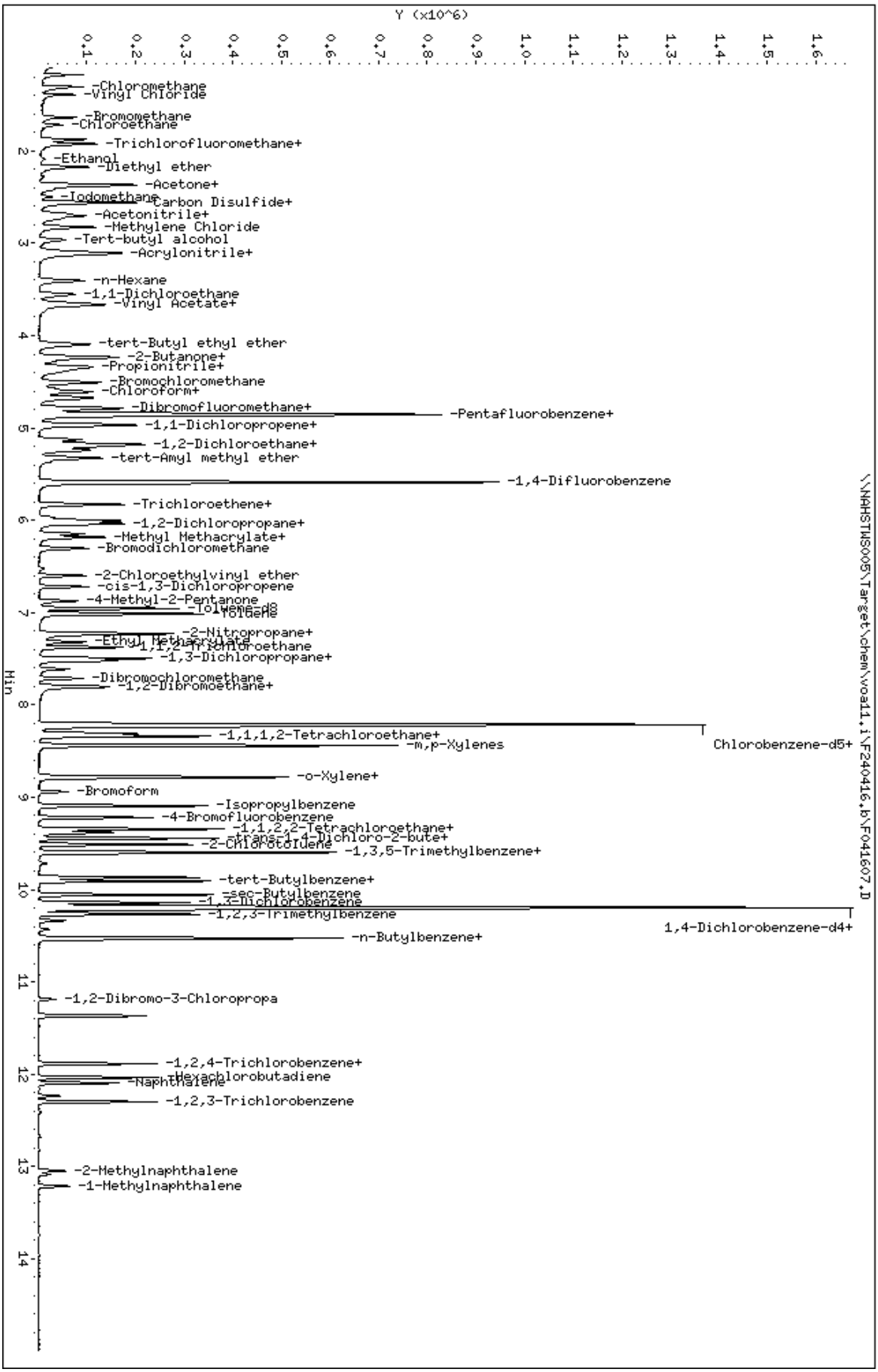
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	22 1,1-Dichloroethane	63	3.556	3.556	(0.732)	79588	10.5353	10.53
	24 2-Butanone	43	4.279	4.275	(0.881)	27778	20.1514	20.15
	25 Methacrylonitrile	41	4.230	4.230	(0.871)	36008	10.0581	10.05
	26 2,2-Dichloropropane	77	4.234	4.230	(0.872)	41532	10.3203	10.32
	27 cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	49472	10.3512	10.35
	28 Chloroform	83	4.609	4.609	(0.949)	86556	9.92531	9.92
	29 Bromochloromethane	128	4.508	4.504	(0.928)	26970	10.2030	10.20
$	30 Dibromofluoromethane	113	4.781	4.781	(0.985)	47064	10.2789	10.27(R)
	31 1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	68316	9.92252	9.92
	32 1,1-Dichloropropene	75	4.973	4.969	(0.890)	52583	10.0347	10.03
	33 1,2-Dichloroethane	62	5.205	5.205	(0.932)	71812	10.3870	10.38
	34 Carbon Tetrachloride	117	4.965	4.965	(0.889)	56883	10.2748	10.27
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	61388	10.6379	10.63(R)
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	663896	50.0000	
	37 Benzene	78	5.182	5.179	(0.928)	162859	10.0143	10.01
	38 Trichloroethene	130	5.827	5.827	(1.043)	46405	9.55622	9.55
	39 Bromodichloromethane	83	6.307	6.303	(1.129)	53939	9.70105	9.70
	40 Methyl Methacrylate	41	6.183	6.180	(1.273)	52474	9.23792	9.23
	41 2-Chloroethylvinyl ether	63	6.599	6.600	(1.181)	34158	17.7460	17.74
	42 1,2-Dichloropropane	63	6.037	6.037	(1.081)	42209	10.1100	10.11
	43 2-Nitropropane	43	7.229	7.229	(1.489)	49951	9.91524	9.91
	44 Dibromomethane	93	6.146	6.146	(1.100)	30295	9.99096	9.99
	45 4-Methyl-2-Pentanone	43	6.877	6.873	(0.837)	50538	18.0694	18.06
	46 cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	45376	8.95192	8.95
*	47 Chlorobenzene-d5	117	8.211	8.215	(1.000)	607609	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	148227	9.96165	9.96(R)
	49 Ethyl Methacrylate	69	7.319	7.316	(1.310)	41924	8.74512	8.74
	50 Toluene	91	7.012	7.016	(0.854)	175769	10.3931	10.39
	51 trans-1,3-Dichloropropene	75	7.222	7.218	(1.293)	37402	8.28107	8.28
	52 2-Hexanone	43	7.229	7.229	(0.880)	49951	21.9686	21.96
	53 1,1,2-Trichloroethane	83	7.379	7.375	(0.899)	36348	10.4741	10.47
	54 1,3-Dichloropropane	76	7.522	7.522	(0.916)	72130	10.4441	10.44
	55 Dibromochloromethane	129	7.717	7.717	(0.940)	38419	10.2592	10.25
	56 Tetrachloroethene	164	7.495	7.495	(0.913)	42994	10.5453	10.54
	57 1,2-Dibromoethane	107	7.810	7.807	(0.951)	42137	10.0013	10.00
	58 1-Chlorohexane	55	8.226	8.230	(1.472)	39591	9.62920	9.62
	59 Chlorobenzene	112	8.238	8.238	(1.003)	131945	10.1907	10.19
	60 1,1,1,2-Tetrachloroethane	131	8.316	8.313	(1.013)	43122	10.5680	10.56
	61 Ethylbenzene	106	8.339	8.339	(1.016)	60031	10.5219	10.52
	62 m,p-Xylenes	106	8.440	8.440	(1.028)	169508	21.9746	21.97
	63 o-Xylene	106	8.777	8.778	(1.069)	74248	10.7442	10.74
	64 Styrene	104	8.789	8.789	(1.070)	127658	10.6536	10.65
	66 Bromoform	173	8.939	8.942	(1.089)	22227	9.83540	9.83
	67 Isopropylbenzene	105	9.092	9.092	(1.107)	177725	10.1409	10.14
	68 1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	60737	10.3529	10.35
$	69 4-Bromofluorobenzene	95	9.224	9.220	(1.123)	61168	10.8235	10.82(R)
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	350251	50.0000	
	71 1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	53310	10.1650	10.16
	72 trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	9785	10.1222	10.12
	73 n-Propylbenzene	91	9.445	9.445	(0.926)	218199	10.4107	10.41
	74 Bromobenzene	156	9.344	9.344	(0.916)	55305	10.9275	10.92
	75 1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	161511	10.0127	10.01

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	141451	10.7955	10.79
77	4-Chlorotoluene	91	9.602	9.602 (0.942)	174883	10.6596	10.65

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.868	9.868	(0.968)	123461	9.61844	9.61
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	151228	9.84698	9.84
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	182530	9.94024	9.94
82	p-Isopropyltoluene	119	10.179	10.180	(0.998)	162517	9.84642	9.84
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	102027	10.3563	10.35
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	110387	9.79192	9.79
87	n-Butylbenzene	91	10.524	10.524	(1.032)	135123	9.92637	9.92
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	110045	10.9229	10.92
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.192	(1.097)	5862	9.16298	9.16
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	59344	10.0311	10.03
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	36699	10.9190	10.91
92	Naphthalene	128	12.095	12.095	(1.186)	109110	8.83908	8.83
93	1,2,3-Trichlorobenzene	180	12.297	12.298	(1.206)	61366	10.2499	10.24
146	Methyl acetate	43	2.738	2.735	(0.564)	43853	9.22512	9.22
138	Freon TF	101	2.375	2.371	(0.489)	51225	10.4461	10.44
139	Diethyl ether	59	2.172	2.172	(0.447)	55558	9.75297	9.75
141	Cyclohexane	56	4.849	4.841	(0.998)	67513	9.83268	9.83
147	Methylcyclohexane	55	6.003	6.003	(1.074)	49862	9.64062	9.64
132	n-Butanol	56	5.816	5.820	(1.198)	9154	163.696	163.69
131	Methyl Acrylate	55	4.395	4.395	(0.905)	34400	9.66776	9.66
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	27844	8.86334	8.86
135	1,4-Dioxane	88	6.191	6.183	(1.275)	8343	182.022	182.02(A)
136	n-Hexane	57	3.409	3.406	(0.702)	42536	9.80474	9.80
142	Tetrahydrofuran	42	4.571	4.568	(0.941)	18711	18.4130	18.41
148	Tert-butyl alcohol	59	2.967	2.963	(0.611)	40103	195.345	195.34
149	Isopropyl alcohol	45	2.562	2.562	(0.528)	30728	186.743	186.74(T)
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	80518	169.985	169.98
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	146218	10.1724	10.17
167	Ethanol	45	2.086	2.086	(0.430)	9963	232.869	232.86
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	59344	10.0311	10.03
172	tert-Butyl formate	59	5.242	5.239	(1.080)	24758	18.5260	18.52(MH)
173	3,3-Dimethyl-1-butanol	57	7.792	7.795	(0.949)	46006	181.596	181.59
174	tert-Amyl methyl ether	73	5.325	5.325	(1.096)	64863	9.65413	9.65
175	tert-Butyl ethyl ether	59	4.099	4.095	(0.844)	82980	10.1631	10.16
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	22971	7.71987	7.71
156	Diisopropyl ether	45	3.664	3.664	(0.755)	112808	9.46708	9.46(T)
180	1-Methylnaphthalene	142	13.216	13.212	(1.296)	27343	7.55762	7.55
130	Ethyl Acetate	43	4.369	4.365	(0.900)	68125	10.2536	10.25
176	tert-Amyl alcohol	59	5.242	5.239	(1.080)	23531	178.358	178.35(A)
M 94	1,2-Dichloroethylene (total)	96				96579	20.8933	20.89
M 95	Xylenes (total)	106				243756	32.7188	32.71

QC Flag Legend

T - Target compound detected outside RT window.
A - Target compound detected but, quantitated amount
    exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.



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Client ID: VSTD010
Sample Info: VSTD010;VSTD010;1;6;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 2

Date : 16-APR-2024 13:26

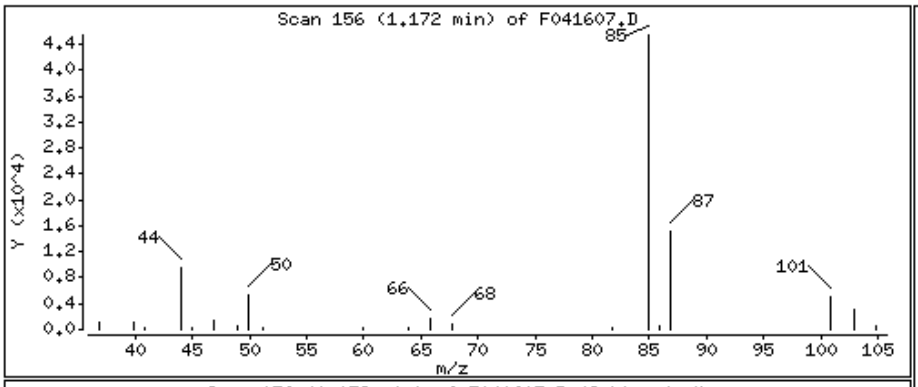
Client ID: VSTD010 Instrument: voa11.i

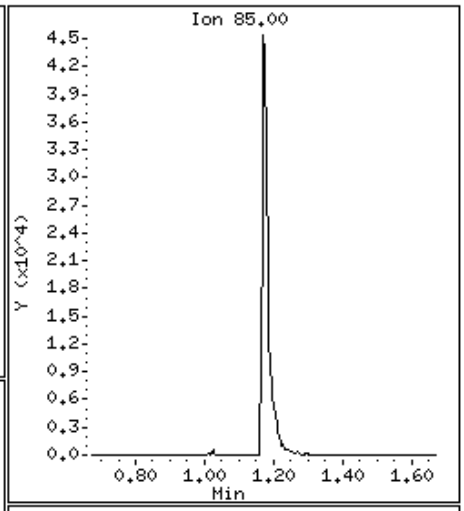
Sample Info: VSTD010;VSTD010;1;6;

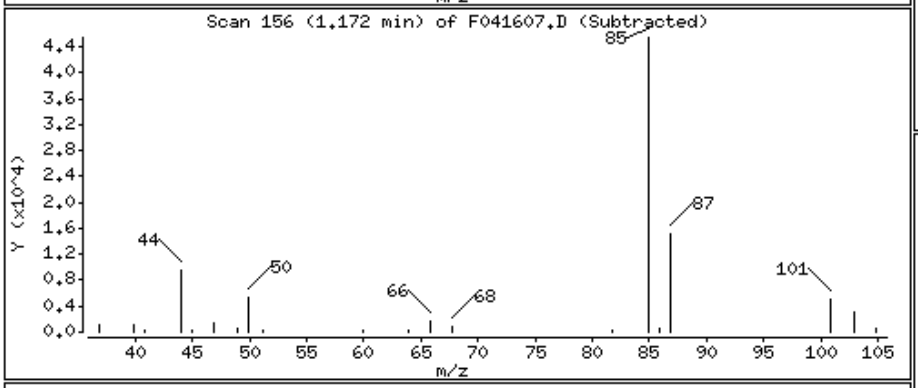
Purge Volume: 5.0 Operator: FT

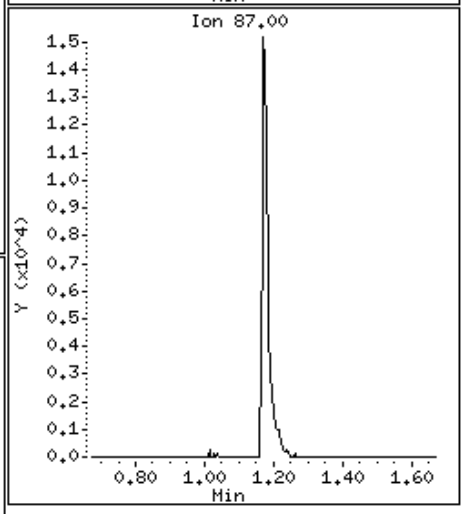
Column phase: DB624 Column diameter: 0.18

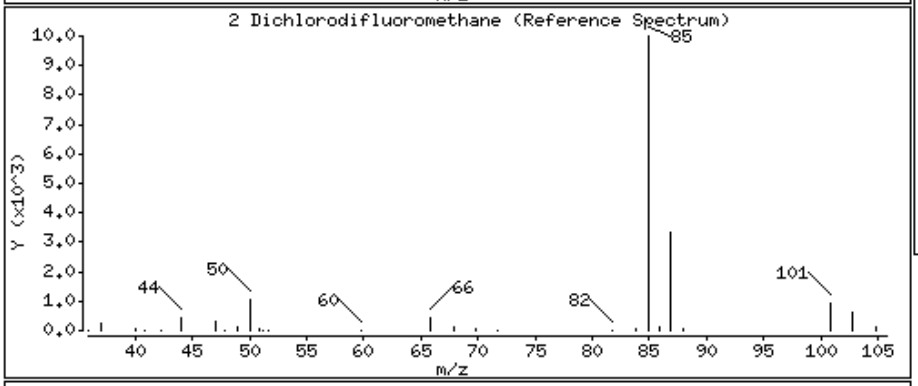
2 Dichlorodifluoromethane Concentration: 10.32 ug/l

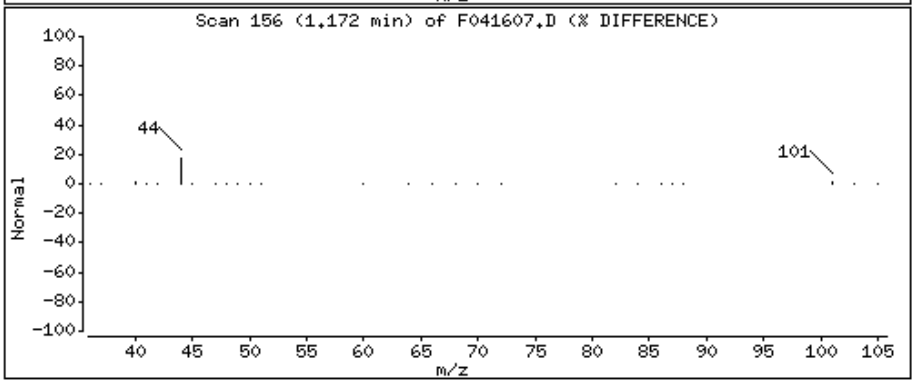












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

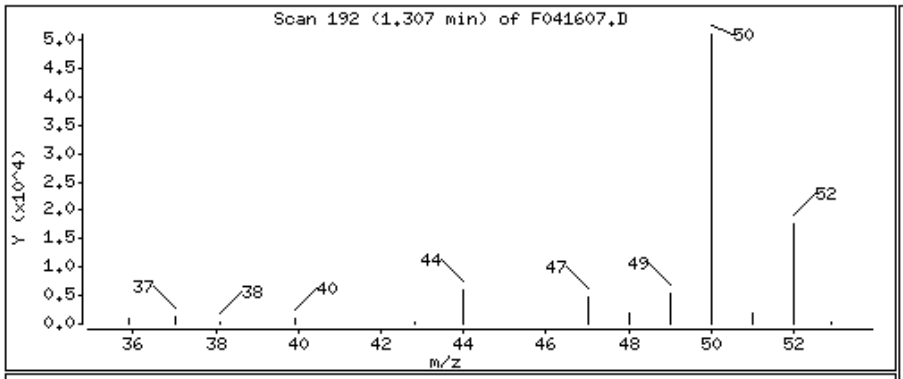
Operator: FT

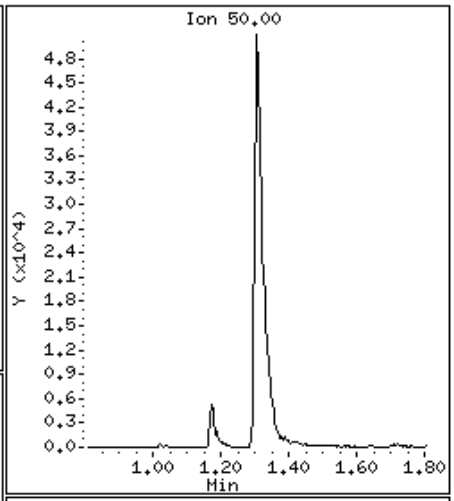
Column phase: DB624

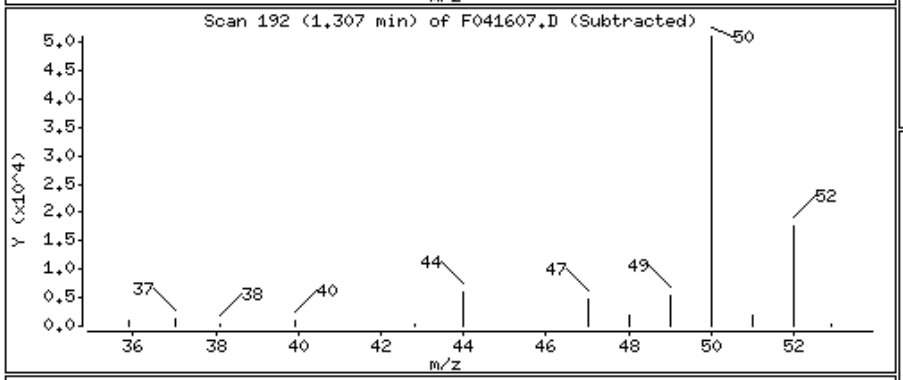
Column diameter: 0.18

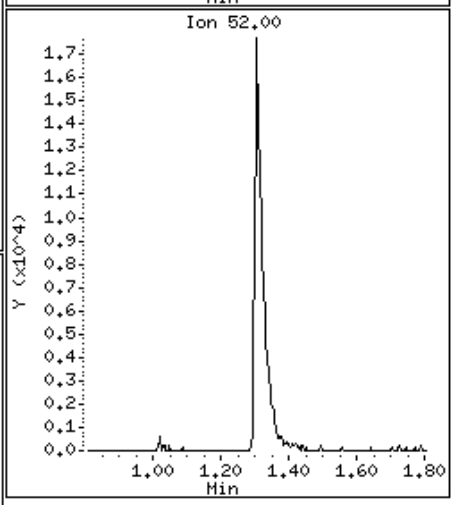
3 Chloromethane

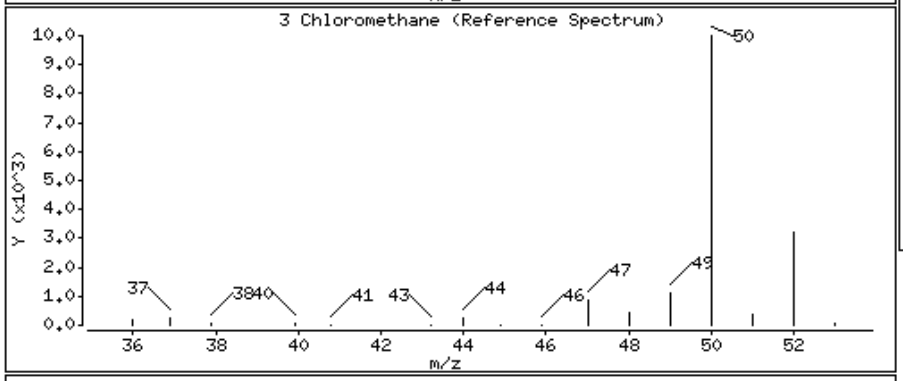
Concentration: 9.88 ug/l

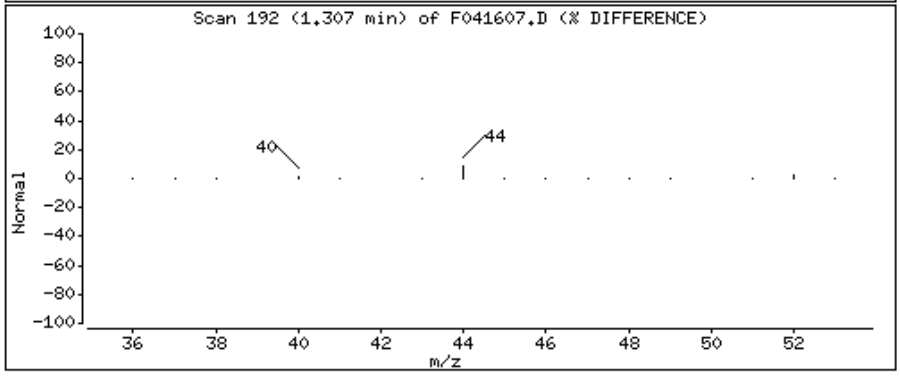












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 4

Date : 16-APR-2024 13:26

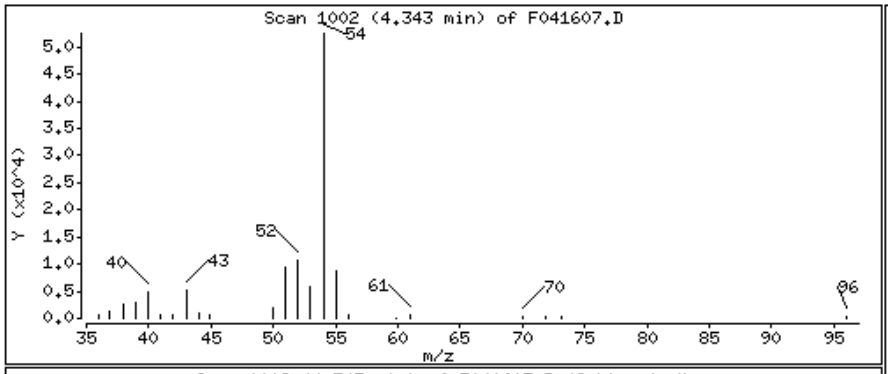
Client ID: VSTD010 Instrument: voa11.i

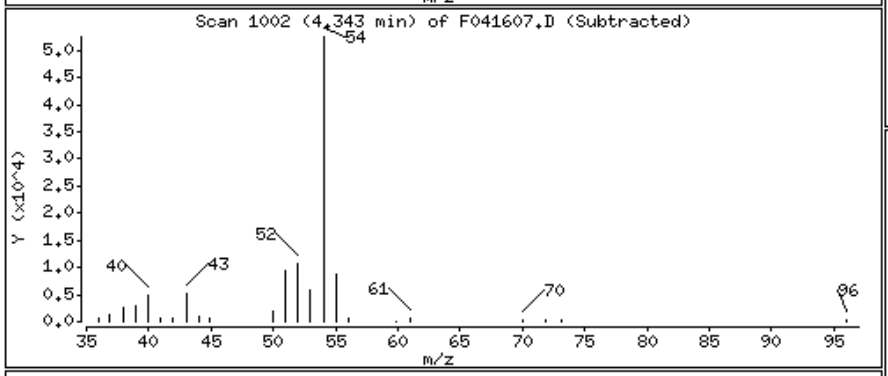
Sample Info: VSTD010;VSTD010;1;6;

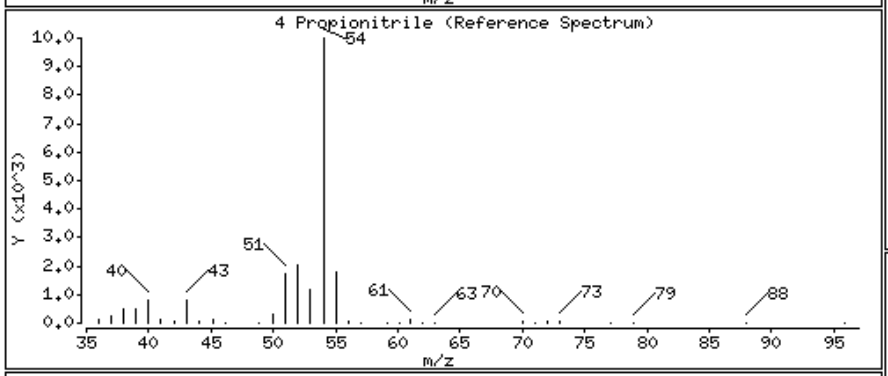
Purge Volume: 5.0 Operator: FT

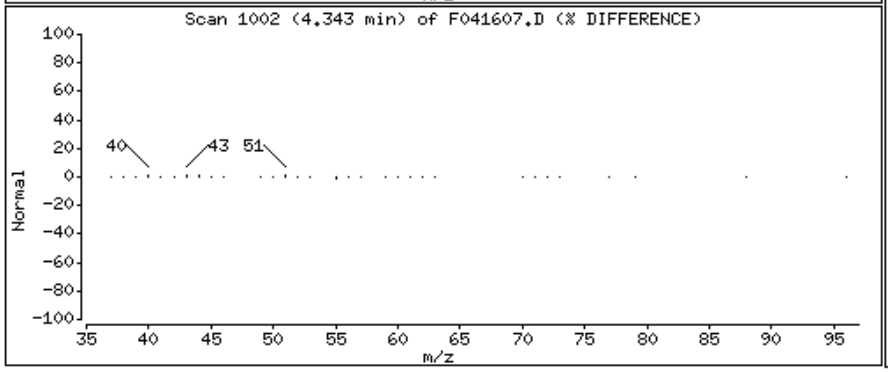
Column phase: DB624 Column diameter: 0.18

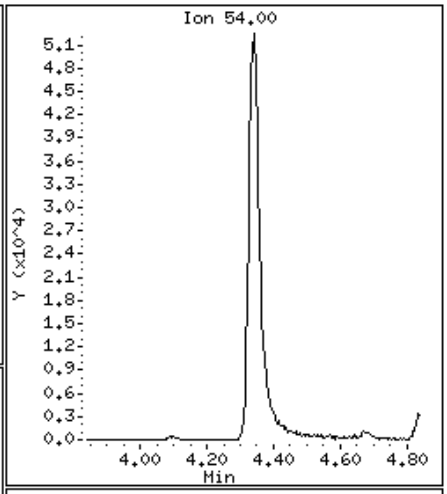
4 Propionitrile Concentration: 107.68 ug/l

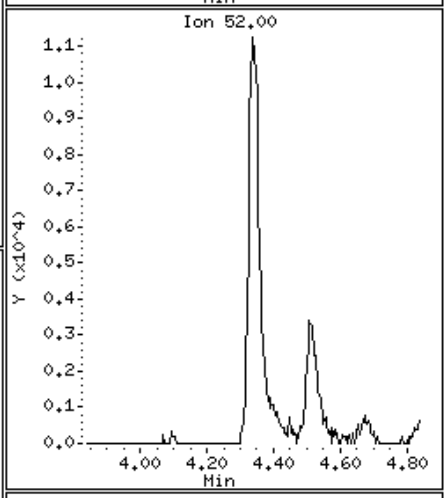


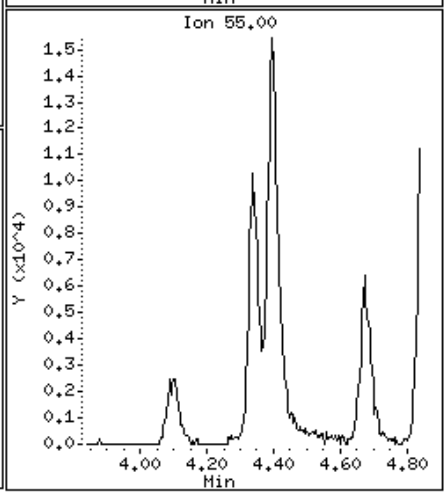












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 5

Date : 16-APR-2024 13:26

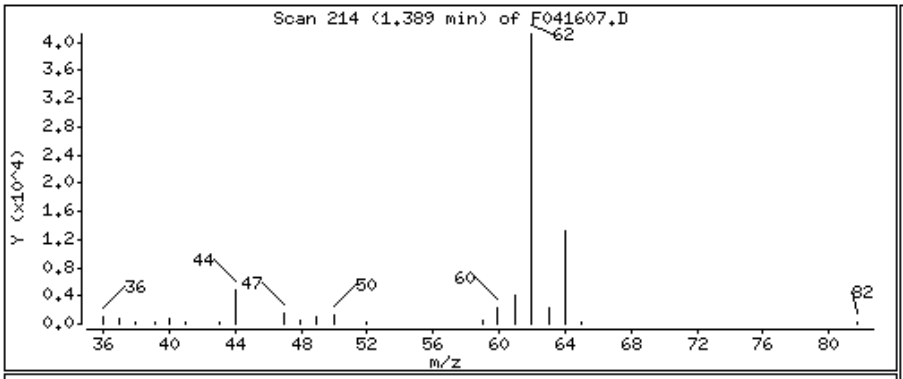
Client ID: VSTD010 Instrument: voa11.i

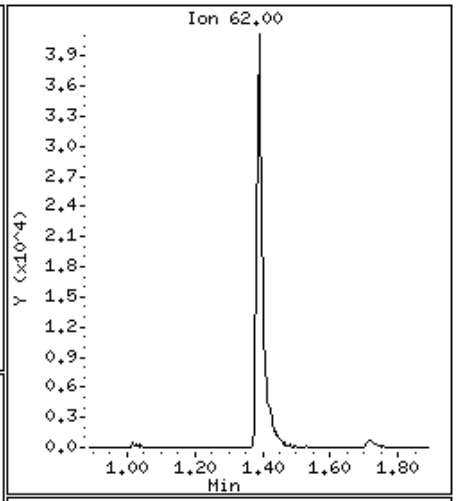
Sample Info: VSTD010;VSTD010;1;6;

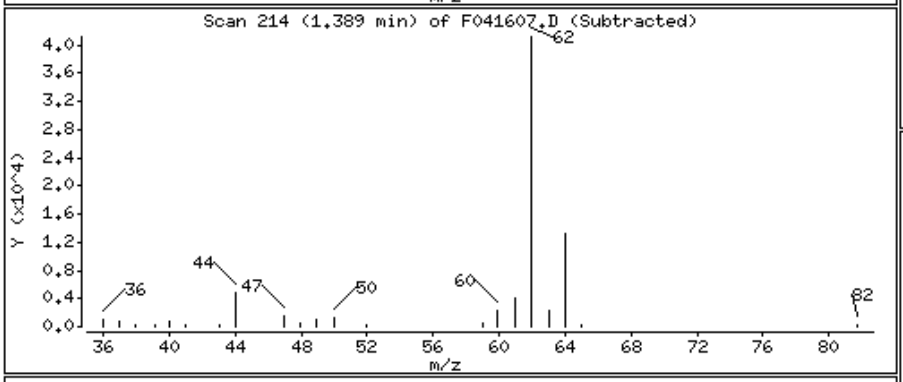
Purge Volume: 5.0 Operator: FT

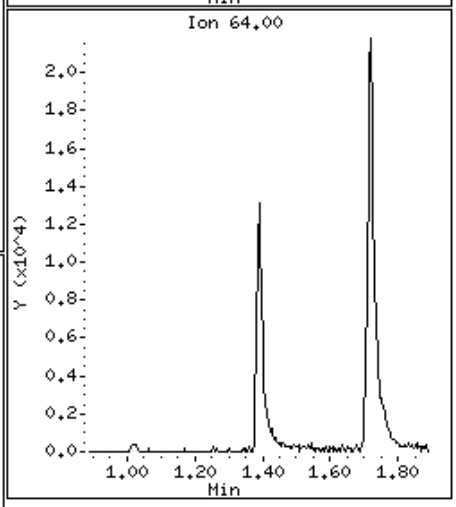
Column phase: DB624 Column diameter: 0.18

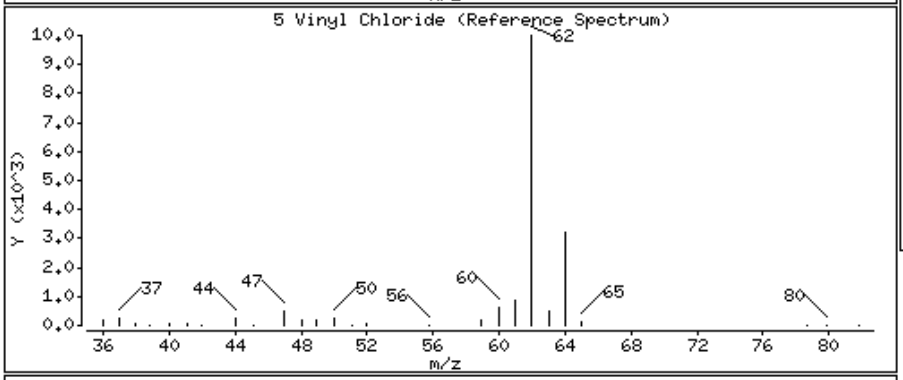
5 Vinyl Chloride Concentration: 10.10 ug/l

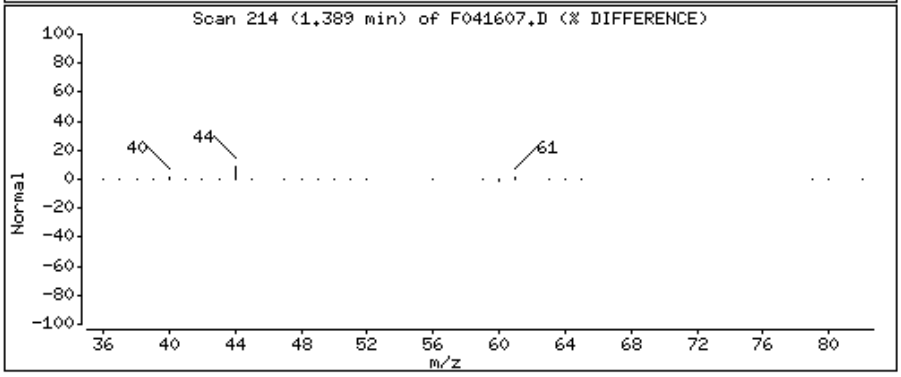












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 6

Date : 16-APR-2024 13:26

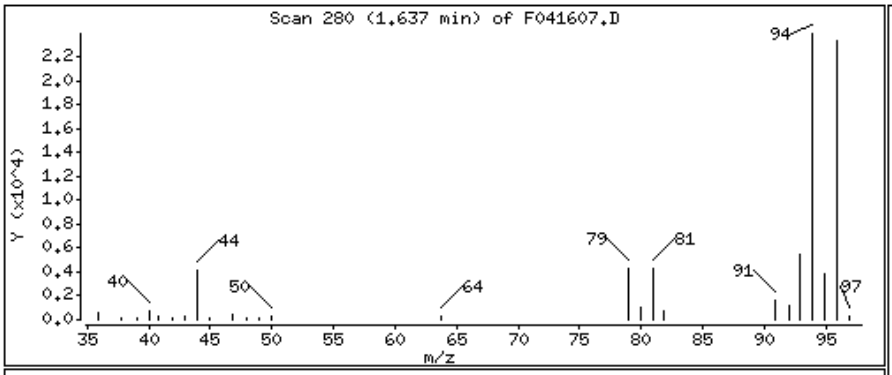
Client ID: VSTD010 Instrument: voa11.i

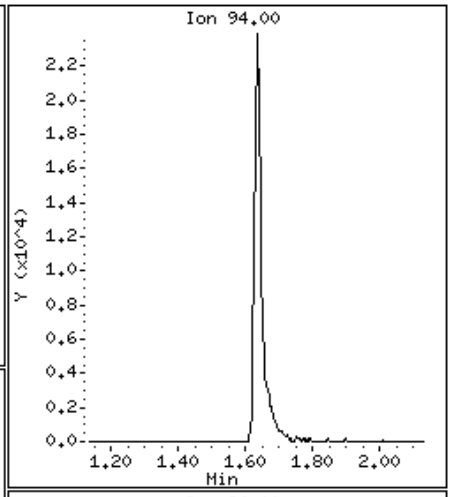
Sample Info: VSTD010;VSTD010;1;6;

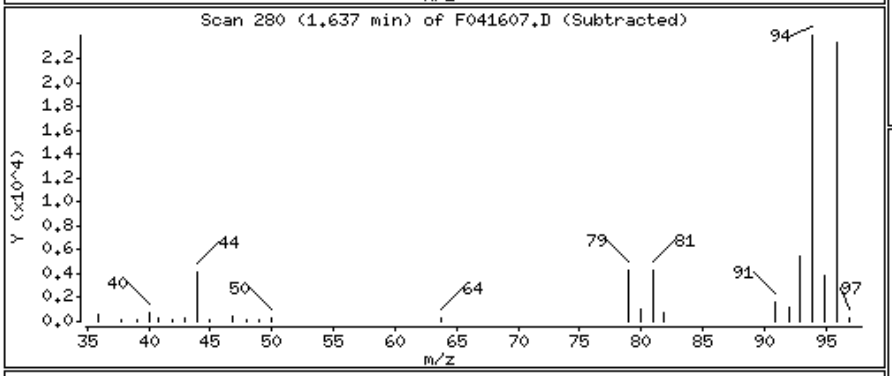
Purge Volume: 5.0 Operator: FT

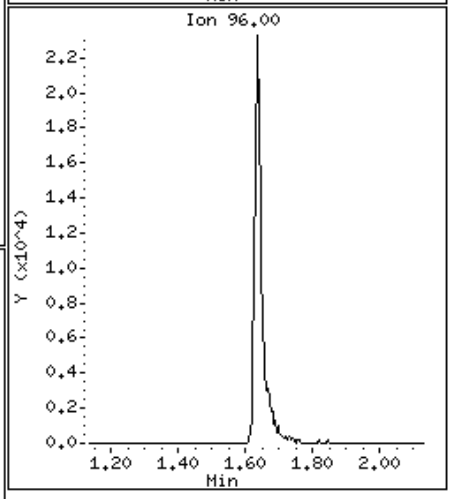
Column phase: DB624 Column diameter: 0.18

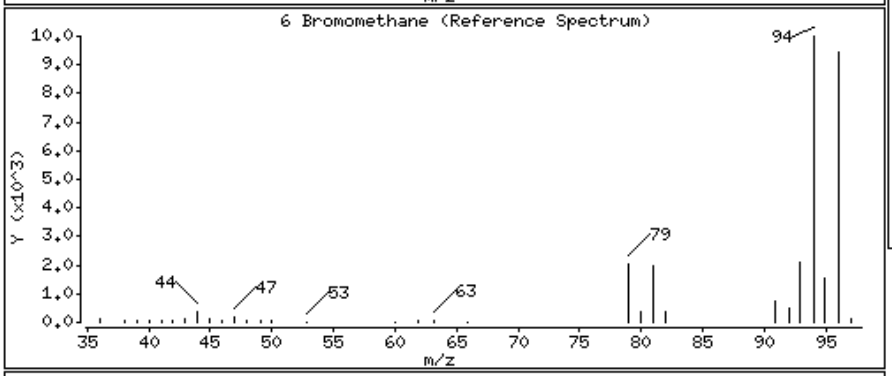
6 Bromomethane Concentration: 11.83 ug/l

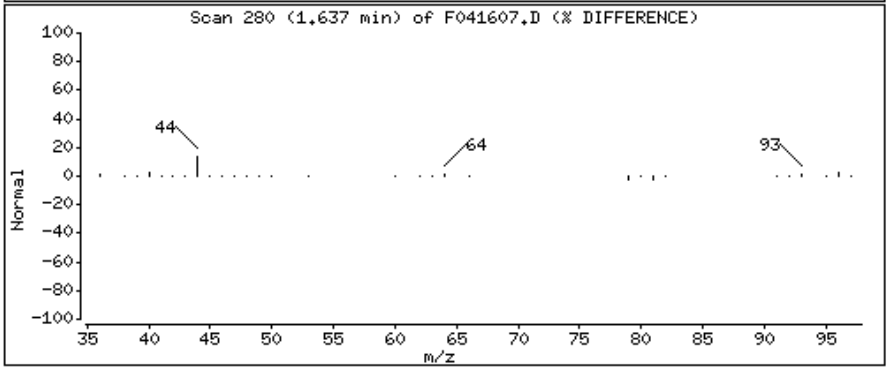












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

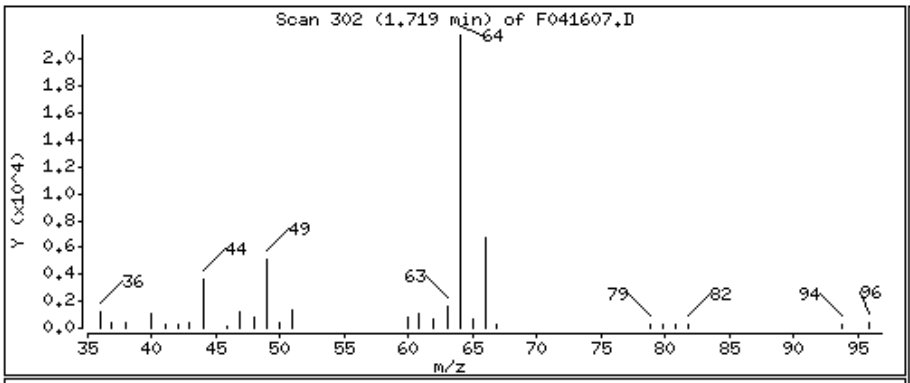
Operator: FT

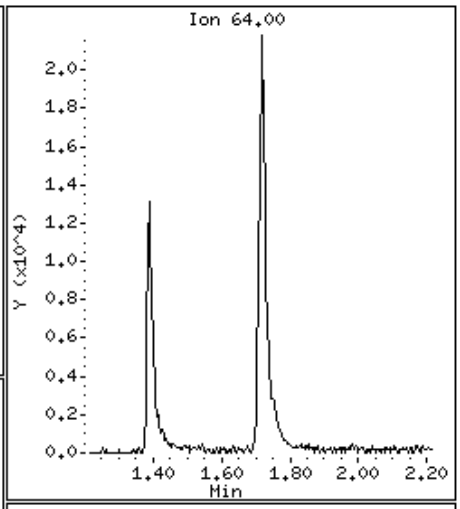
Column phase: DB624

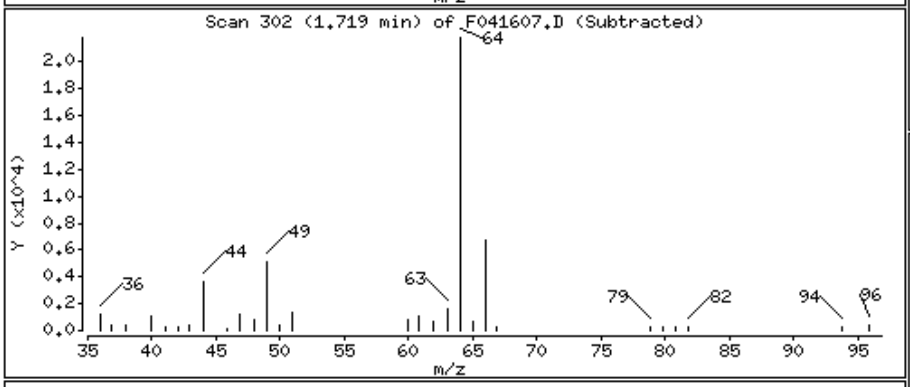
Column diameter: 0.18

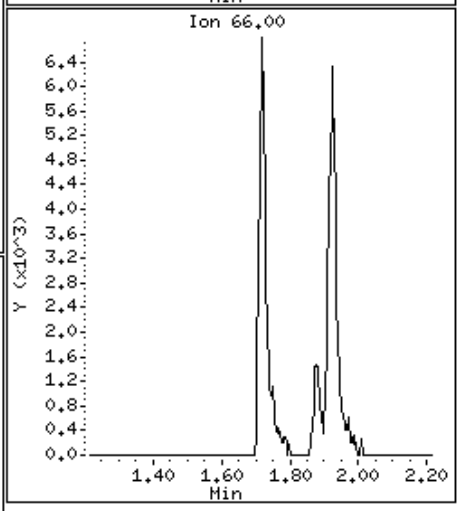
7 Chloroethane

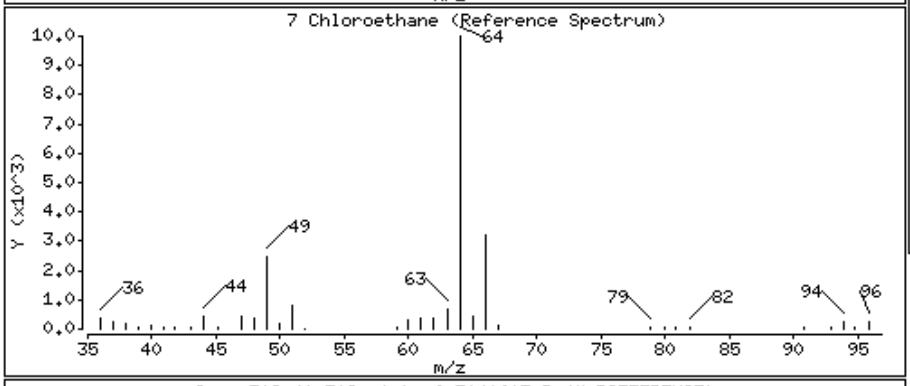
Concentration: 10.53 ug/l

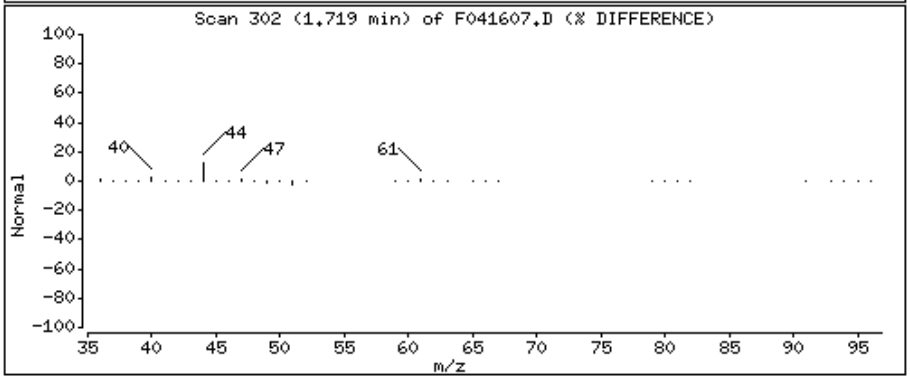












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

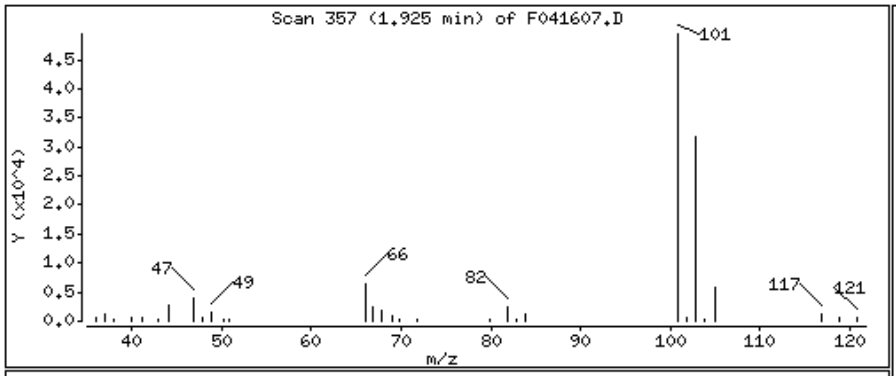
Operator: FT

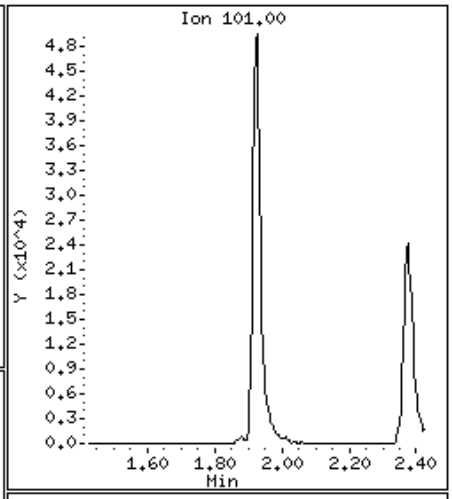
Column phase: DB624

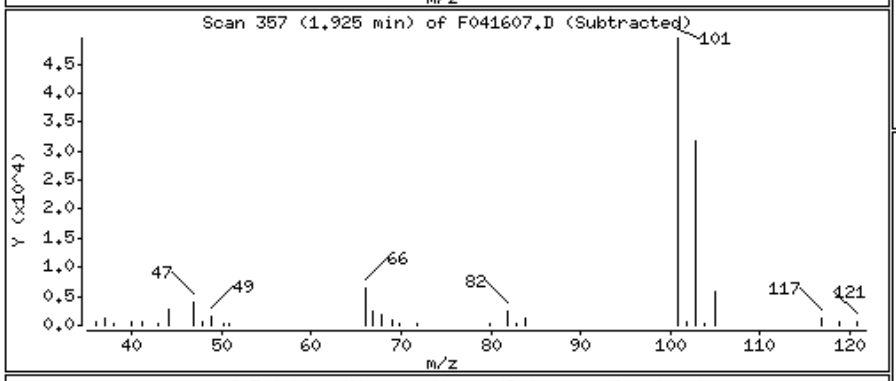
Column diameter: 0.18

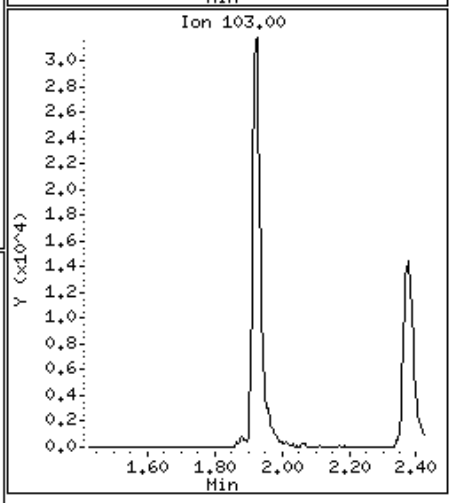
8 Trichlorofluoromethane

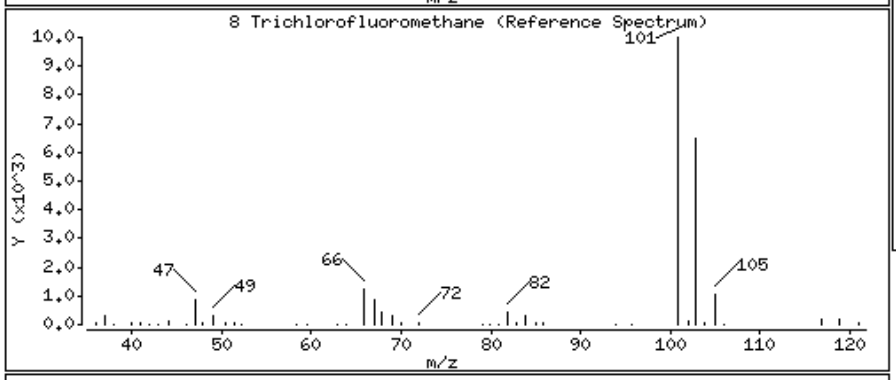
Concentration: 10.19 ug/l

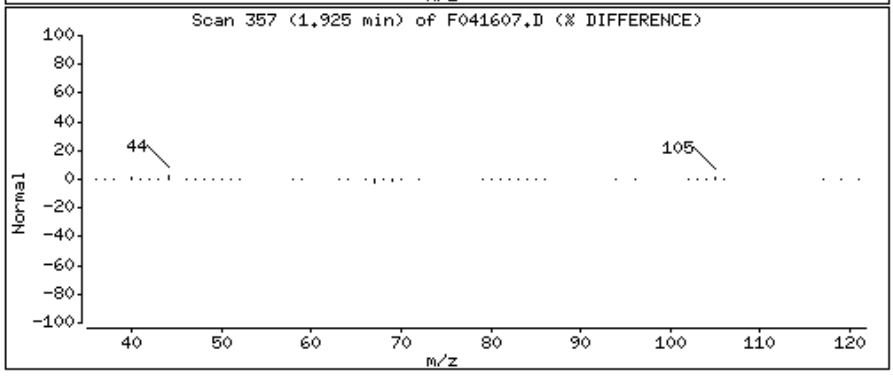












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 9

Date : 16-APR-2024 13:26

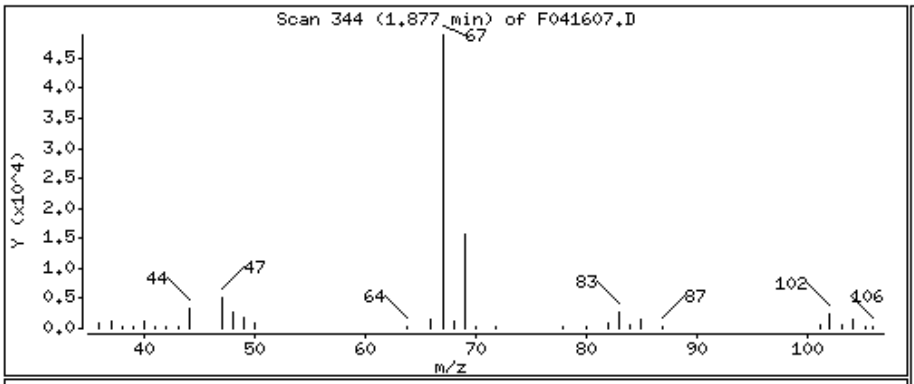
Client ID: VSTD010 Instrument: voa11.i

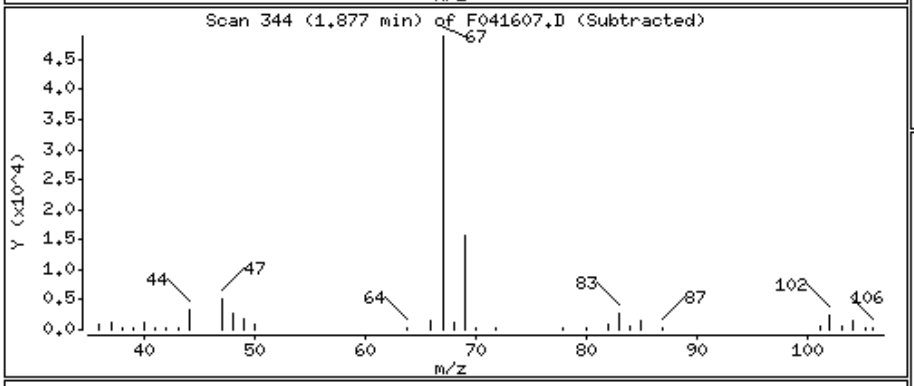
Sample Info: VSTD010;VSTD010;1;6;

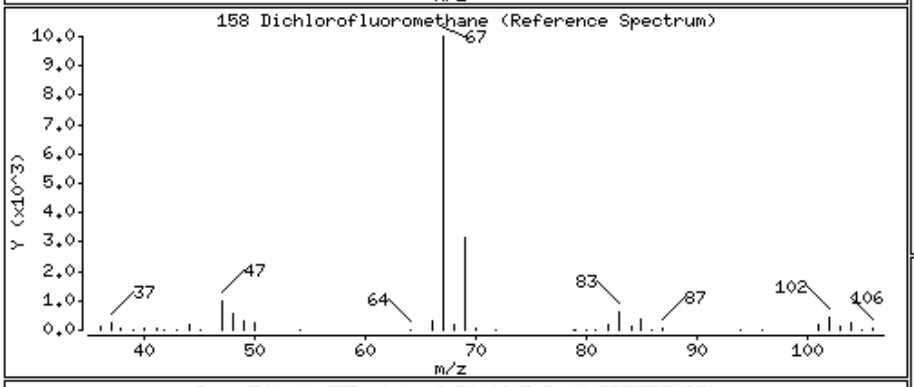
Purge Volume: 5.0 Operator: FT

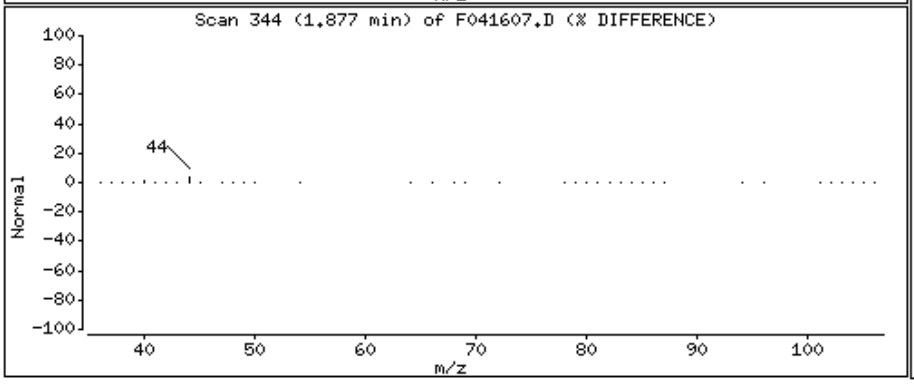
Column phase: DB624 Column diameter: 0.18

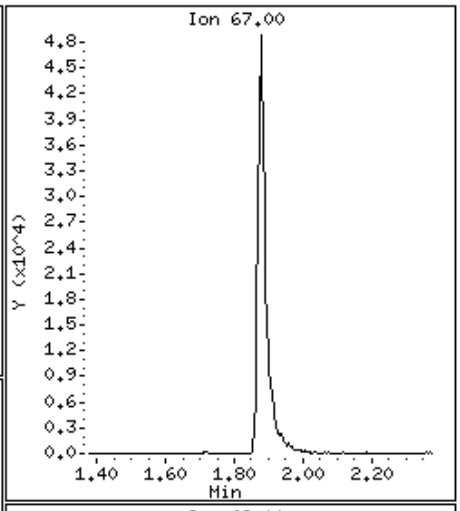
158 Dichlorofluoromethane Concentration: 10.11 ug/l

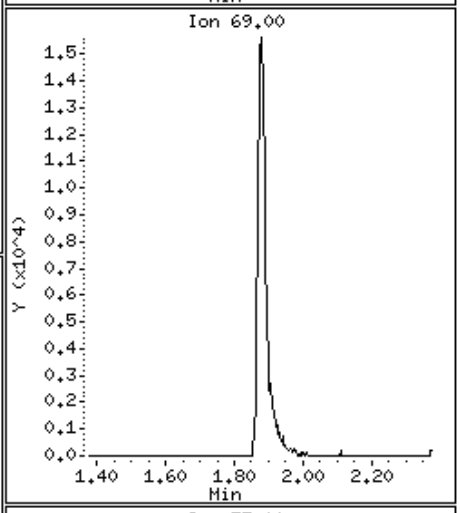


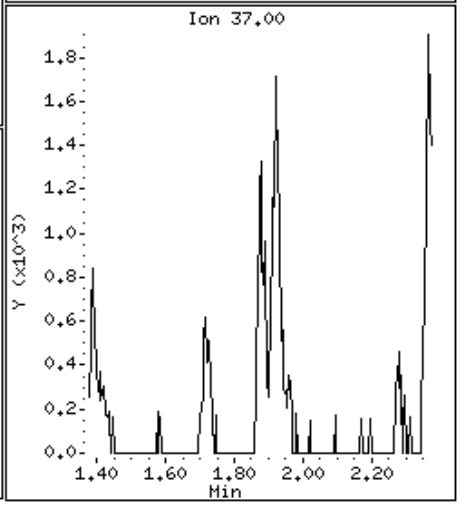












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

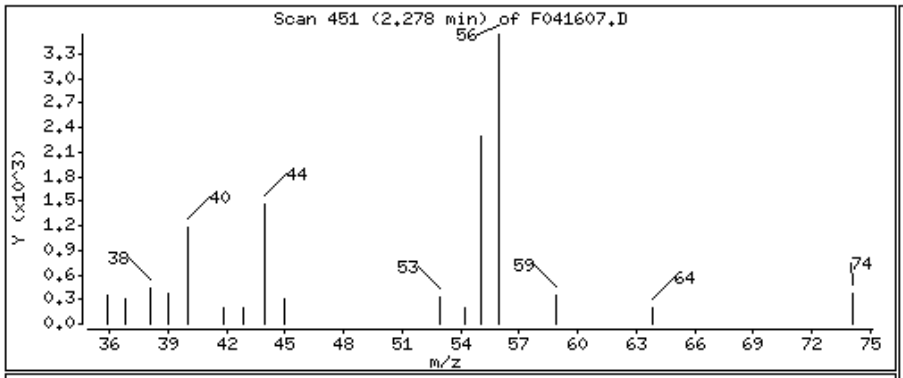
Operator: FT

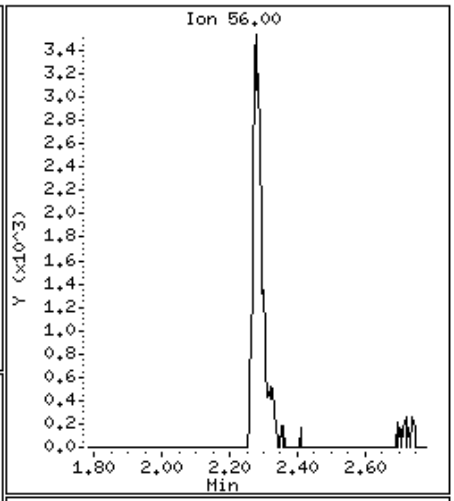
Column phase: DB624

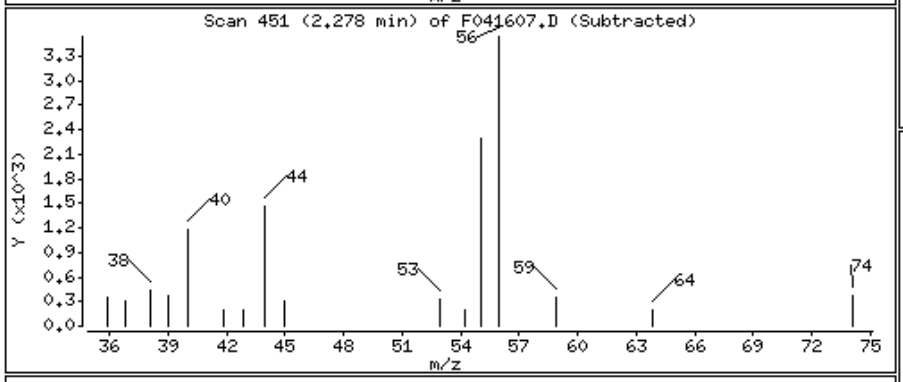
Column diameter: 0.18

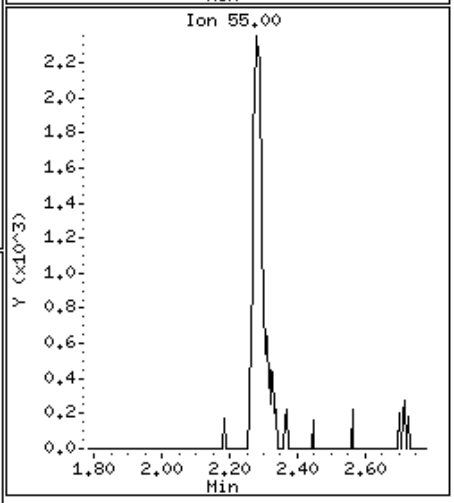
9 Acrolein

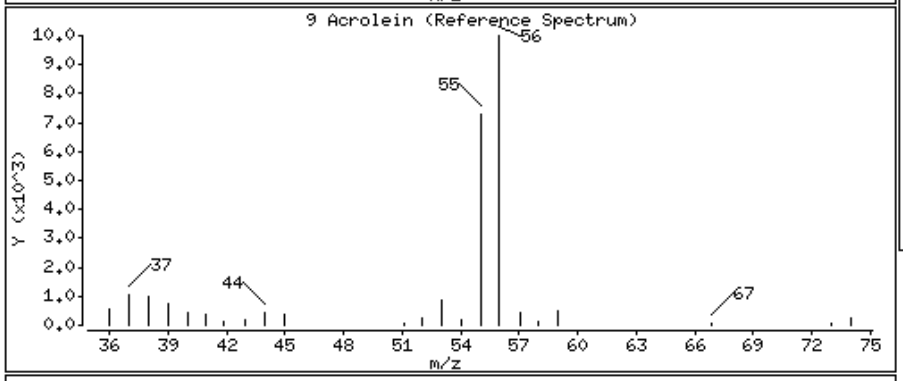
Concentration: 18.91 ug/l

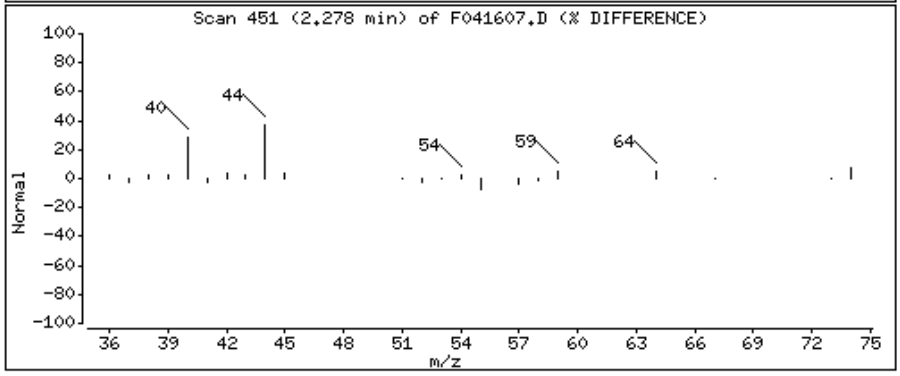












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

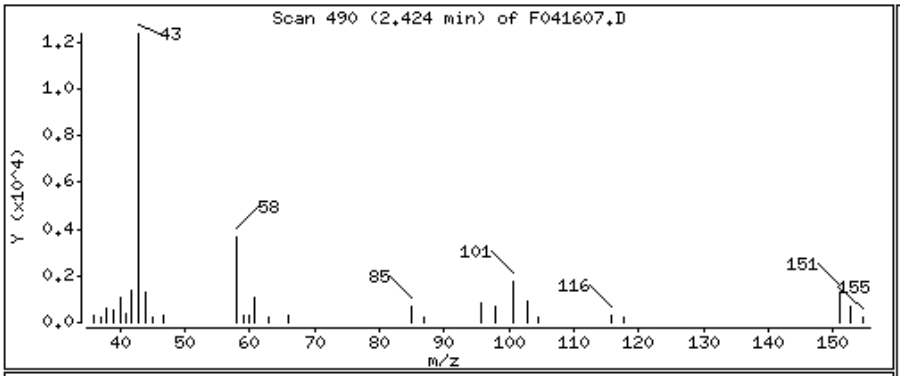
Operator: FT

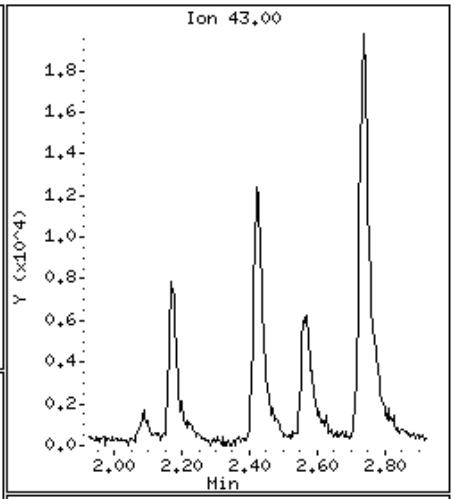
Column phase: DB624

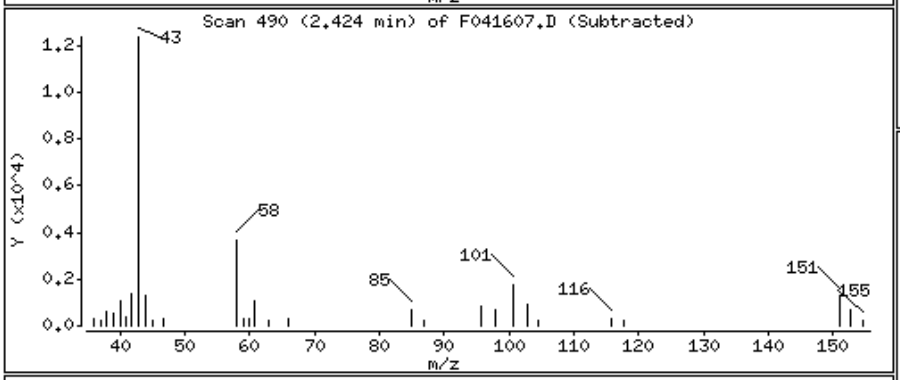
Column diameter: 0.18

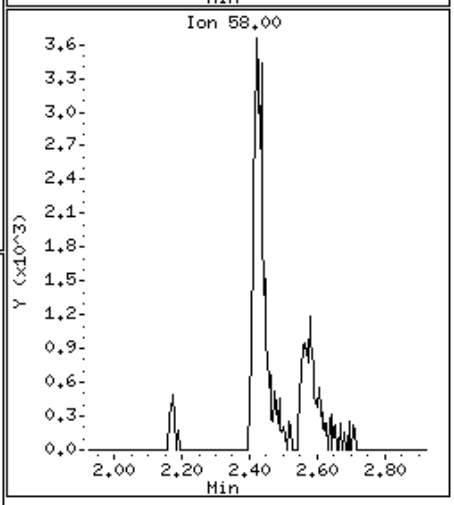
10 Acetone

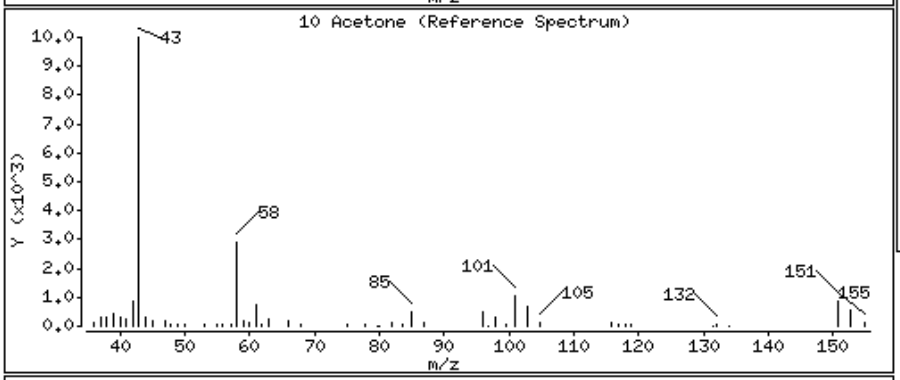
Concentration: 21.36 ug/l

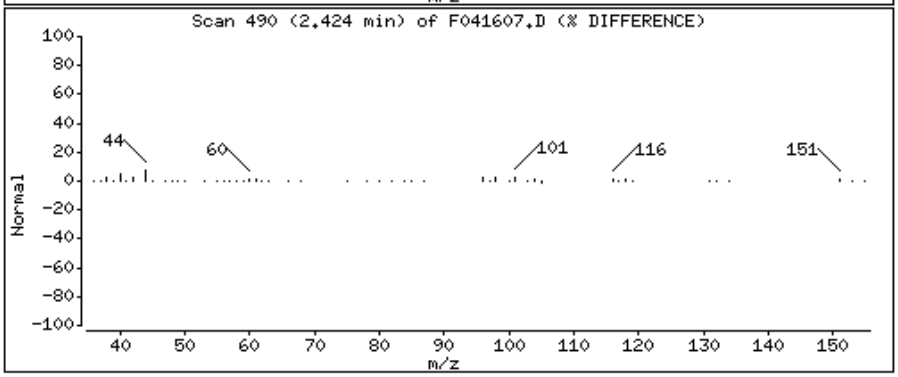












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 12

Date : 16-APR-2024 13:26

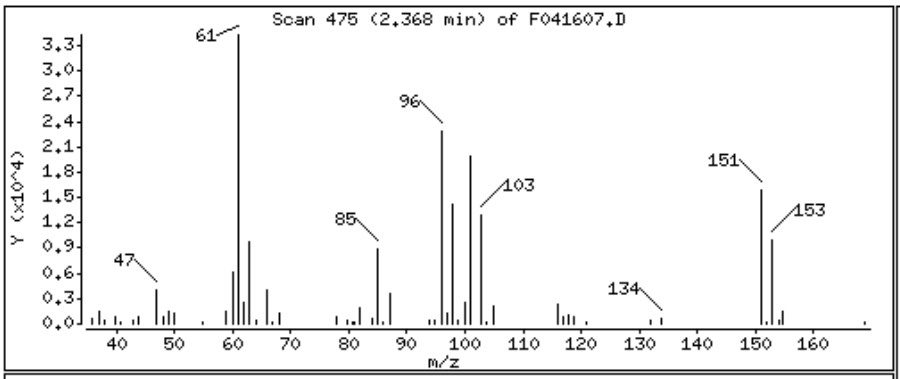
Client ID: VSTD010 Instrument: voa11.i

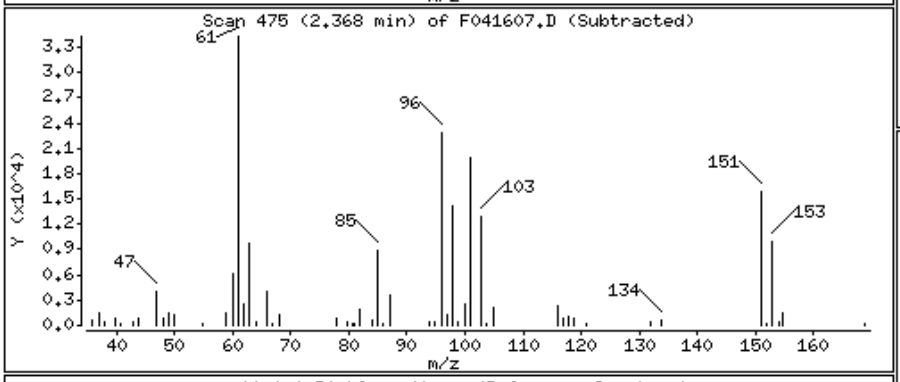
Sample Info: VSTD010;VSTD010;1;6;

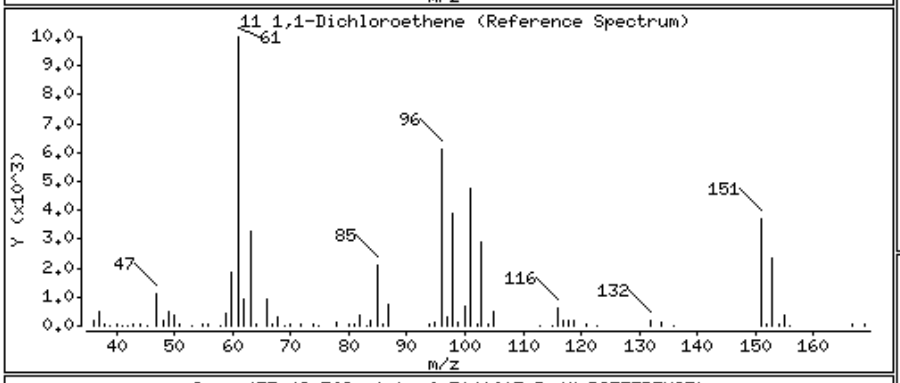
Purge Volume: 5.0 Operator: FT

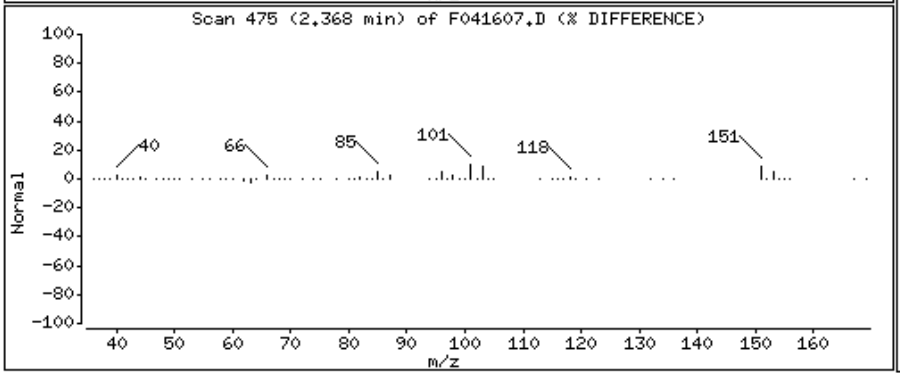
Column phase: DB624 Column diameter: 0.18

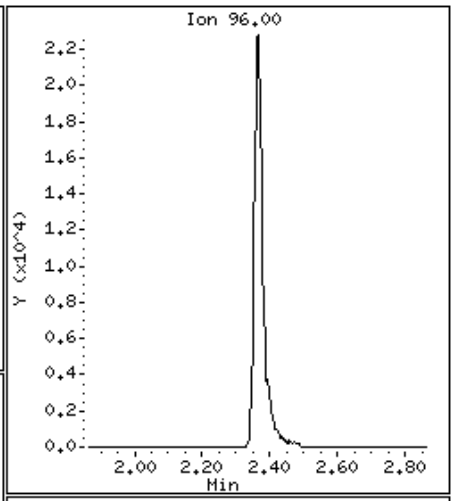
11 1,1-Dichloroethene Concentration: 10.15 ug/l

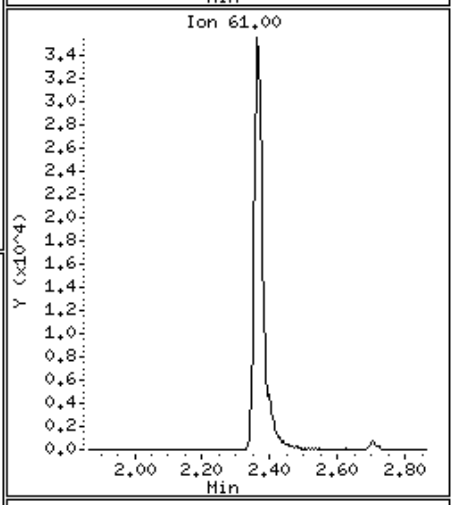


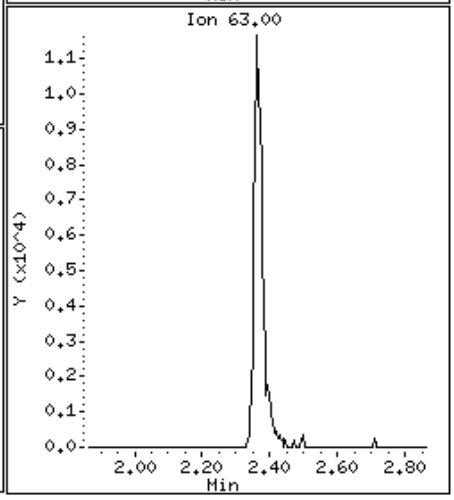












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 13

Date : 16-APR-2024 13:26

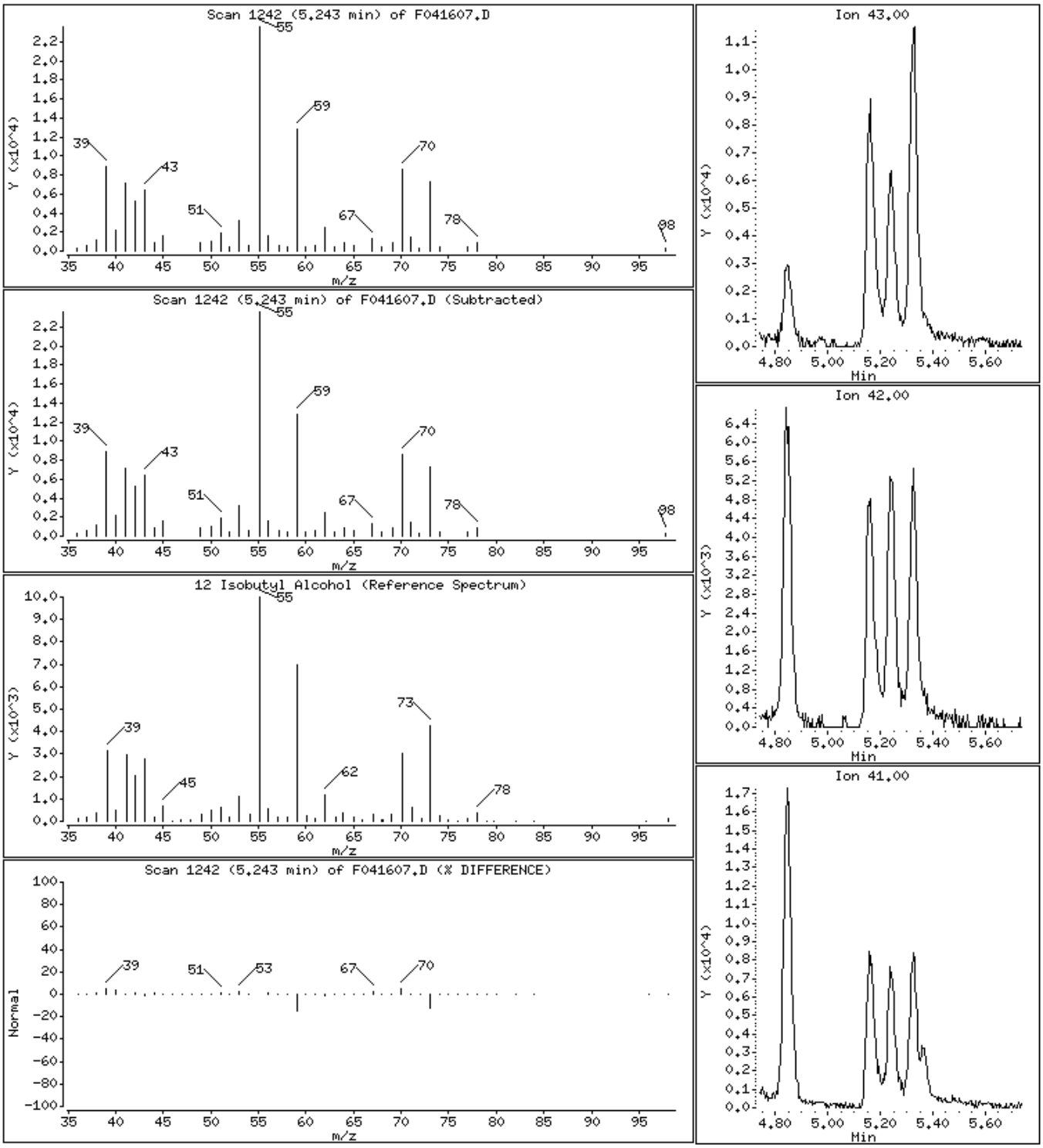
Client ID: VSTD010 Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0 Operator: FT

Column phase: DB624 Column diameter: 0.18

12 Isobutyl Alcohol Concentration: 198.00 ug/l



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Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

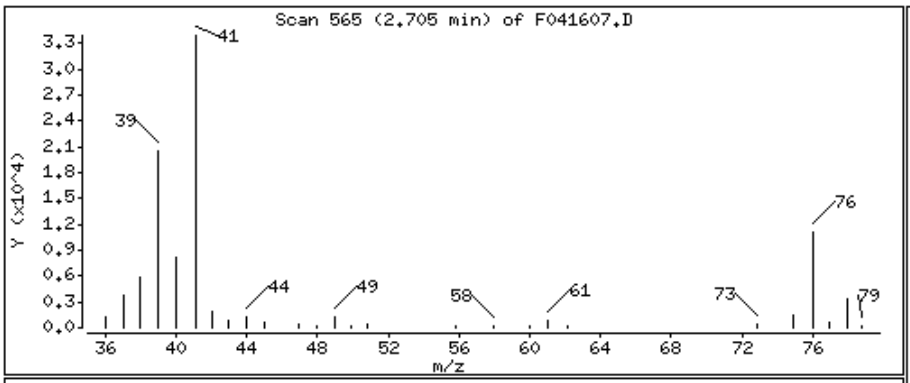
Operator: FT

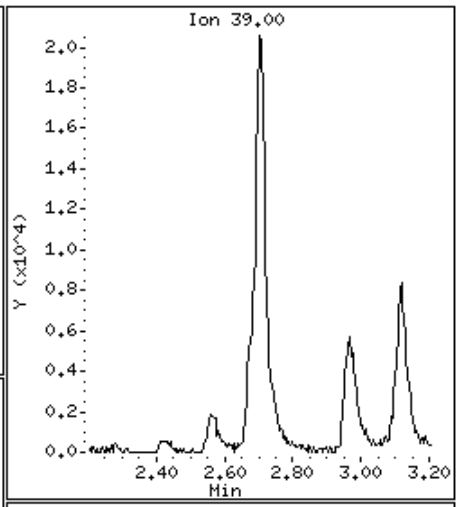
Column phase: DB624

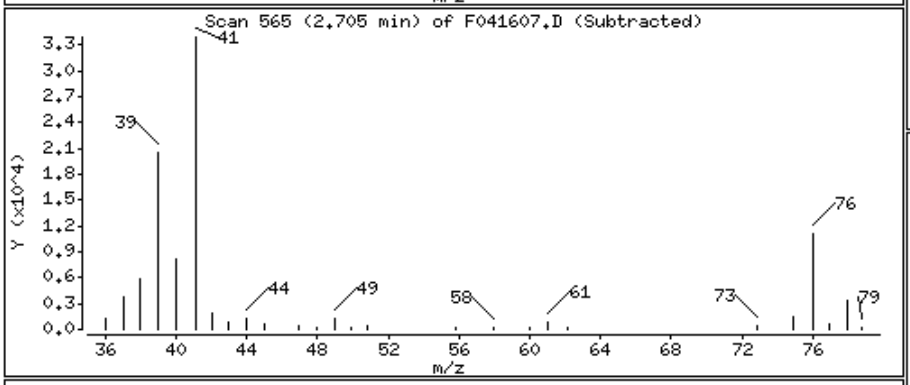
Column diameter: 0.18

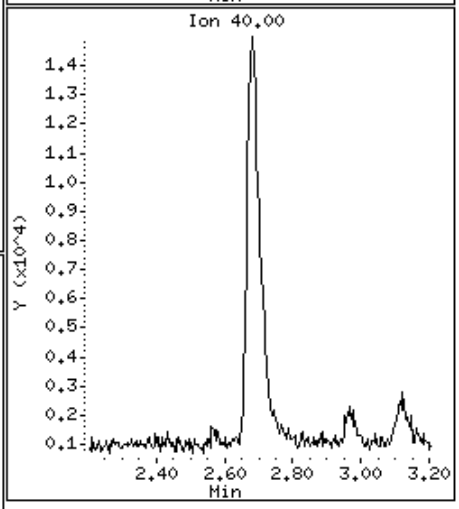
13 Acetonitrile

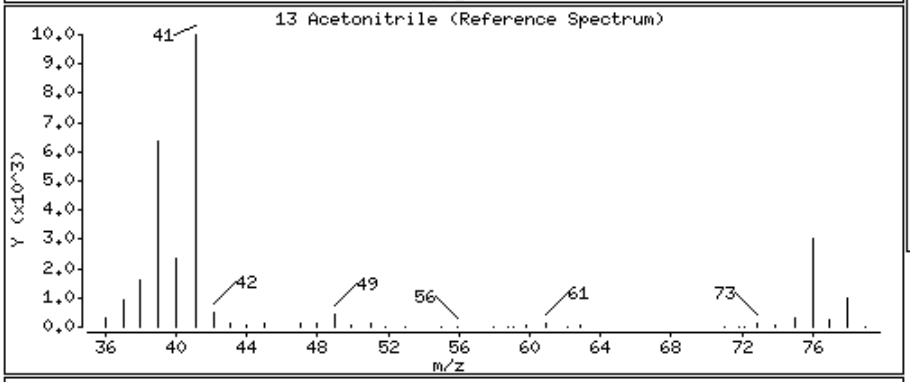
Concentration: 99.36 ug/l

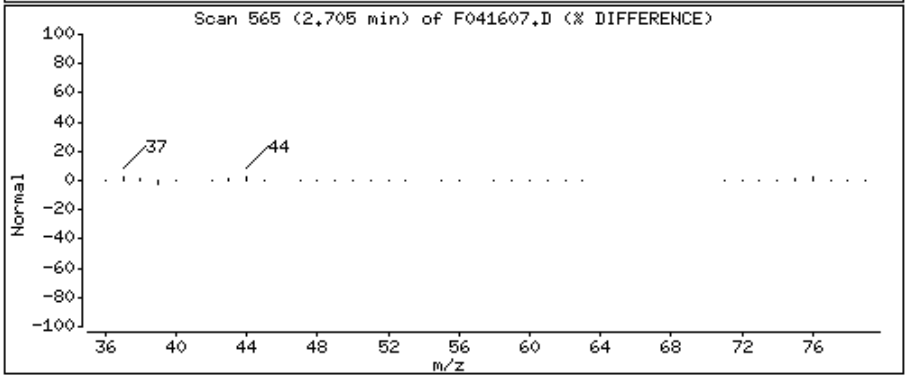












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

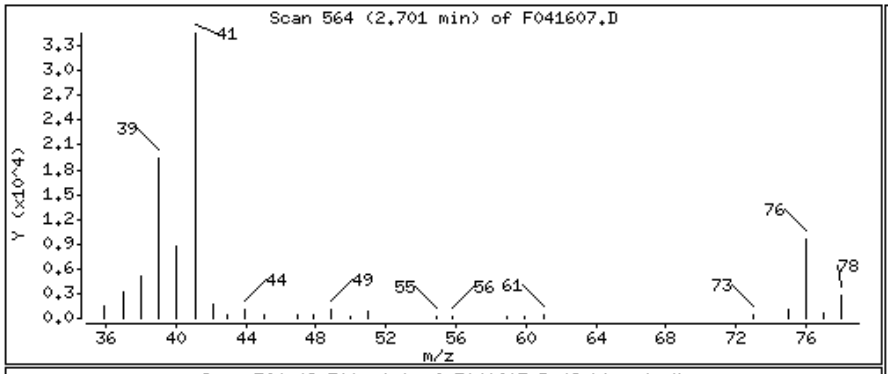
Operator: FT

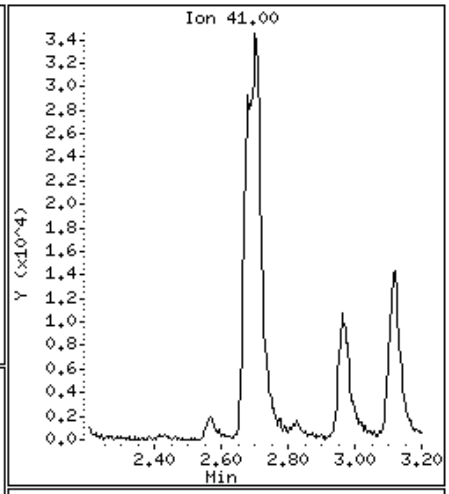
Column phase: DB624

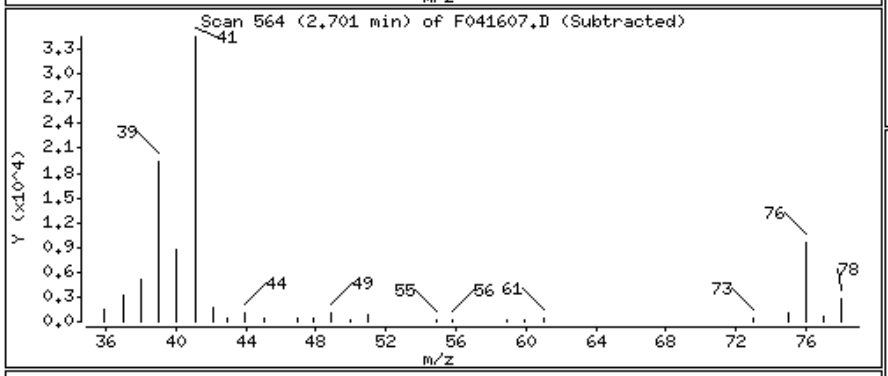
Column diameter: 0.18

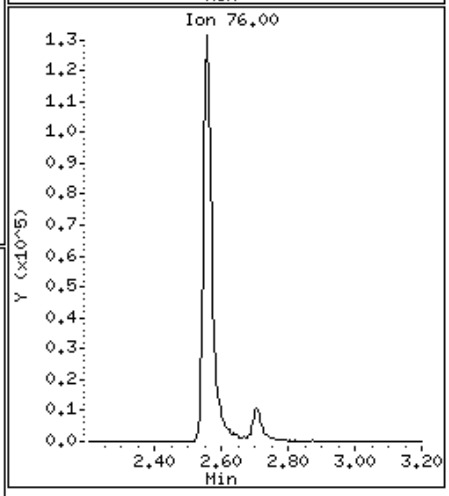
14 Allyl Chloride

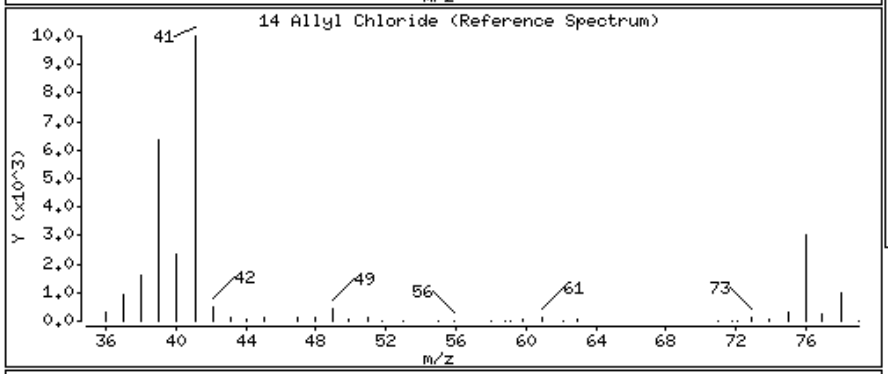
Concentration: 8.55 ug/l

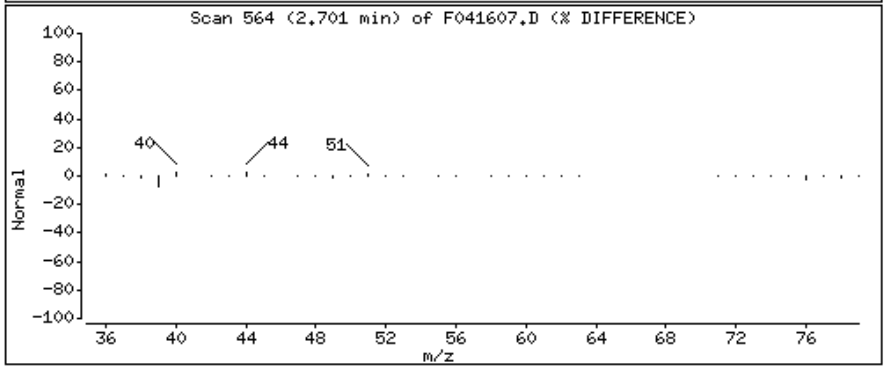












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

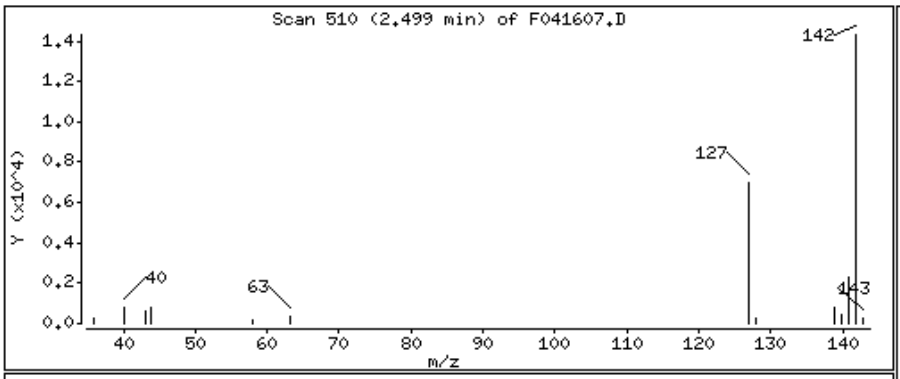
Operator: FT

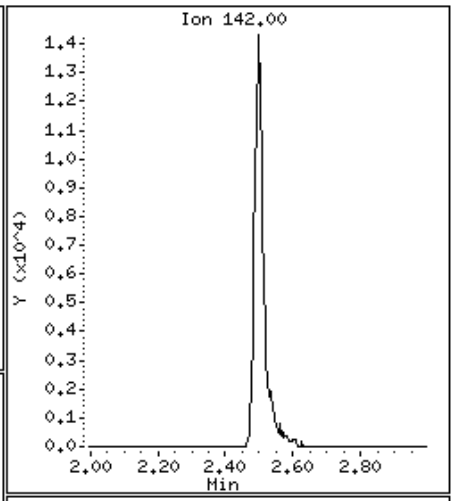
Column phase: DB624

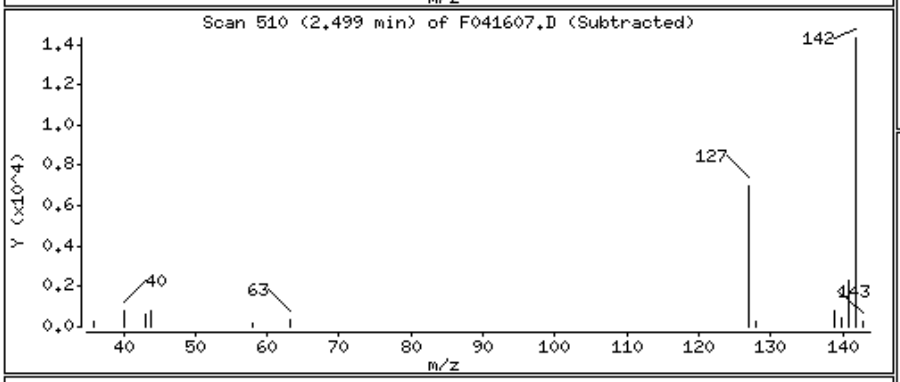
Column diameter: 0.18

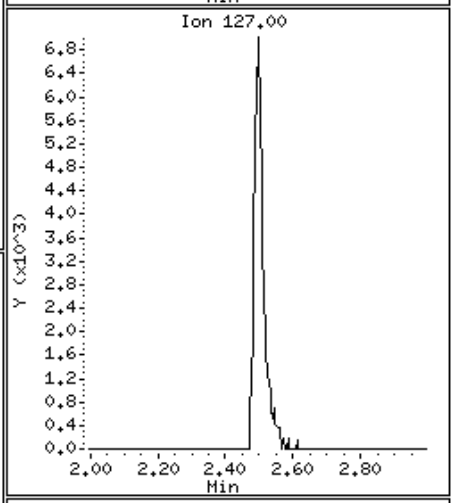
15 Iodomethane

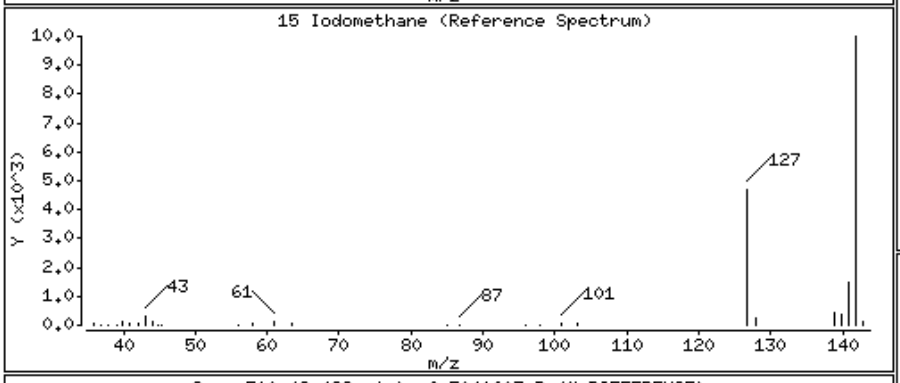
Concentration: 21.08 ug/l

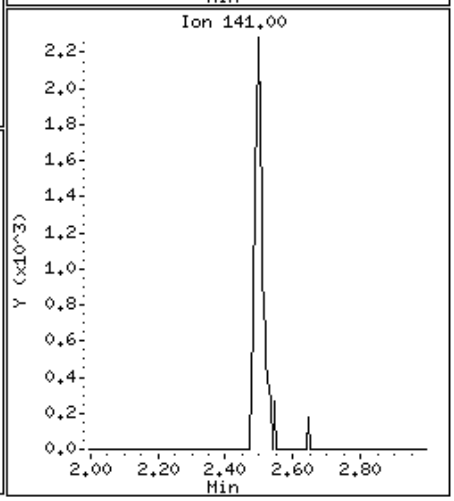


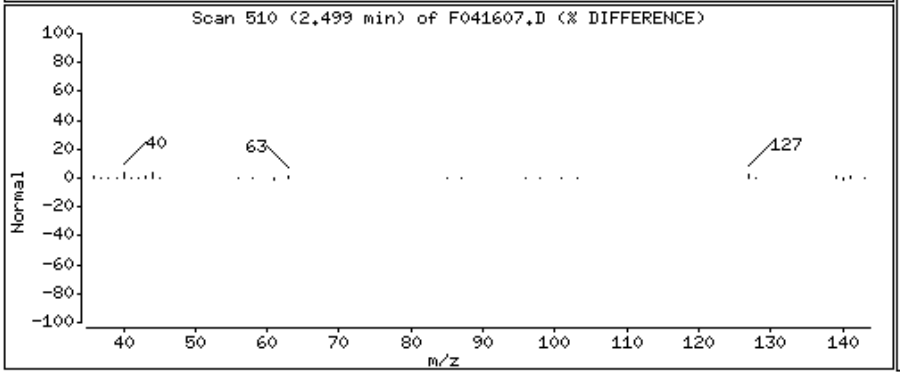












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 17

Date : 16-APR-2024 13:26

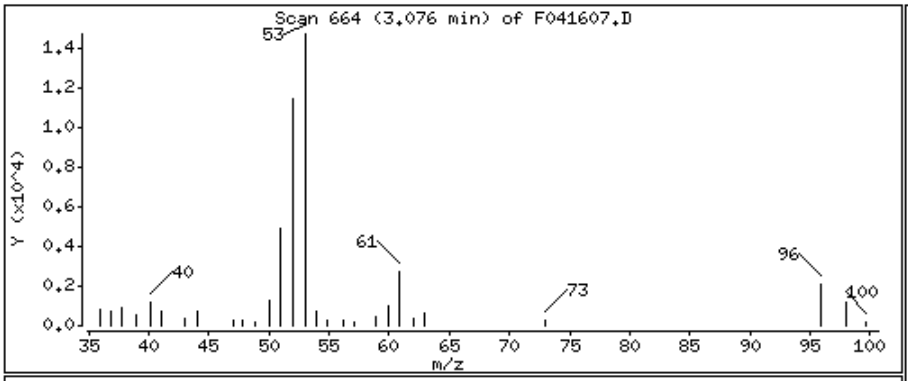
Client ID: VSTD010 Instrument: voa11.i

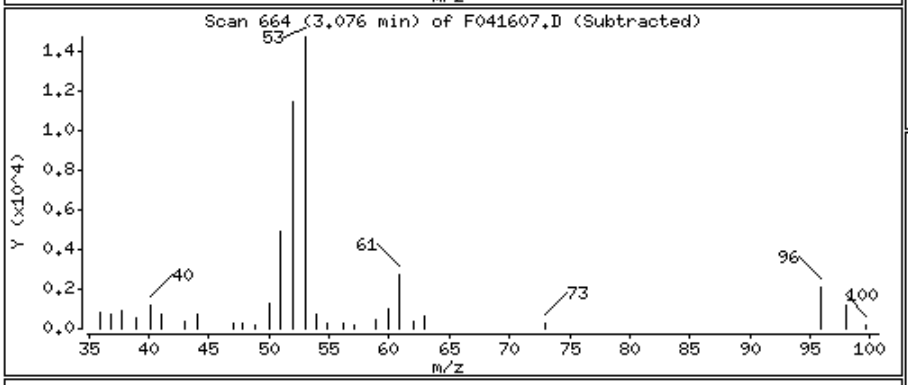
Sample Info: VSTD010;VSTD010;1;6;

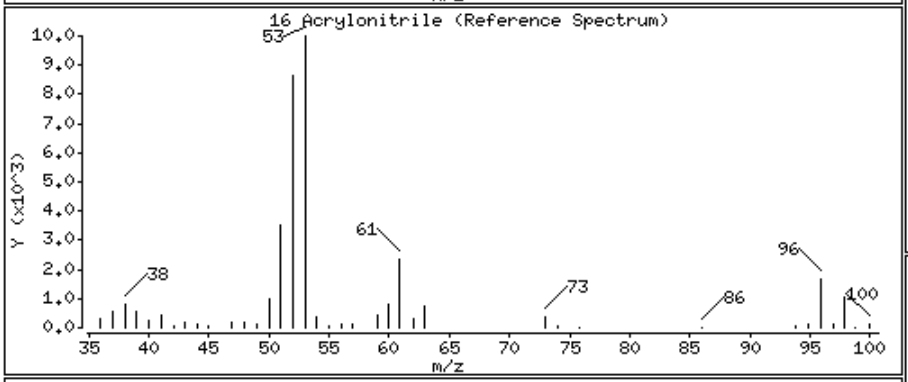
Purge Volume: 5.0 Operator: FT

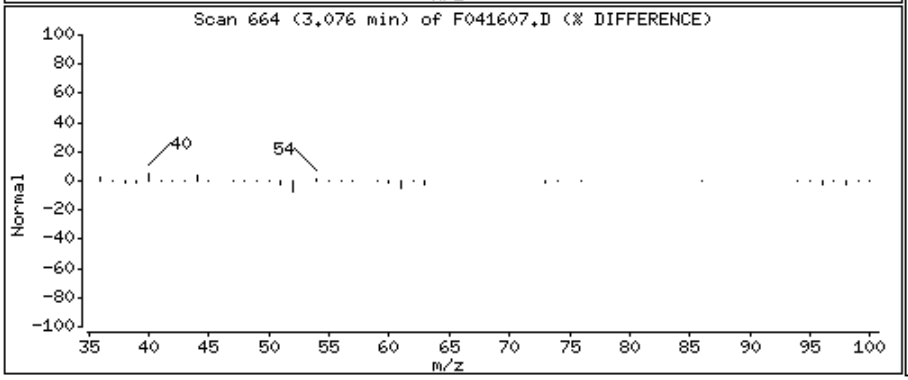
Column phase: DB624 Column diameter: 0.18

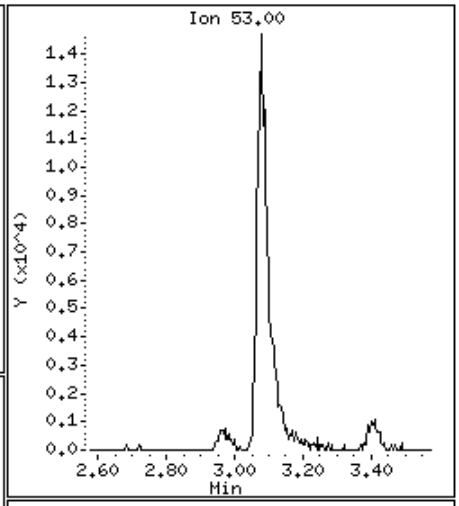
16 Acrylonitrile Concentration: 21.97 ug/l

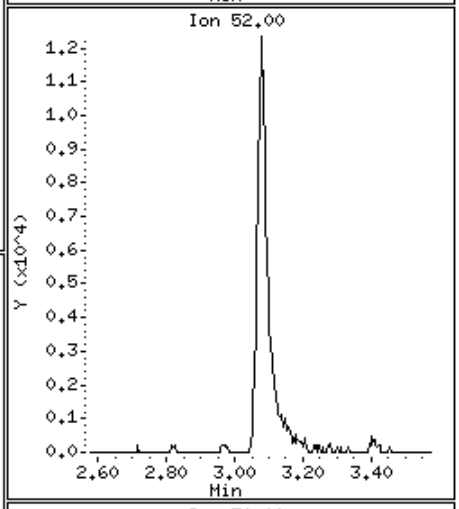


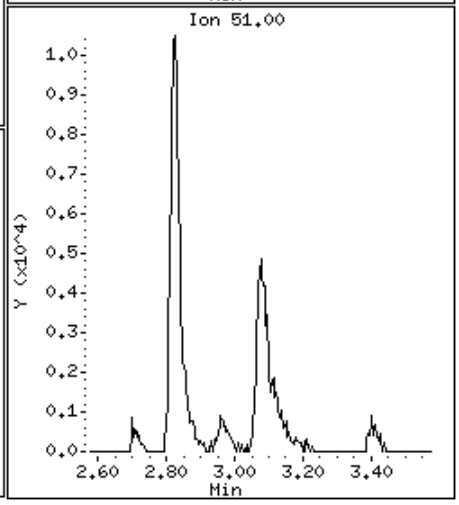












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 18

Date : 16-APR-2024 13:26

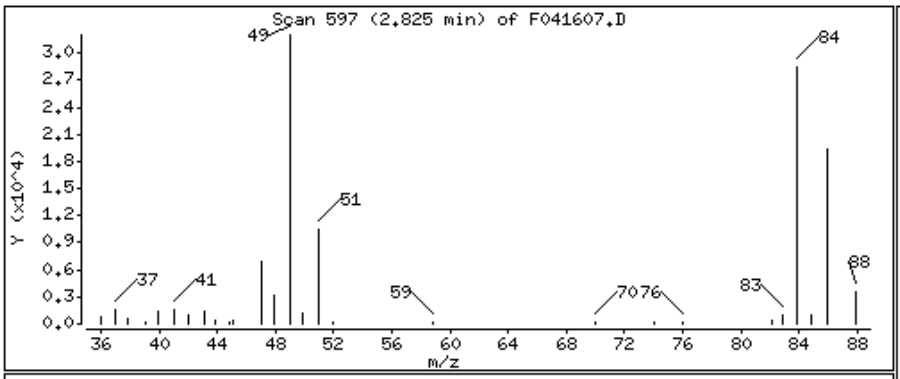
Client ID: VSTD010 Instrument: voa11.i

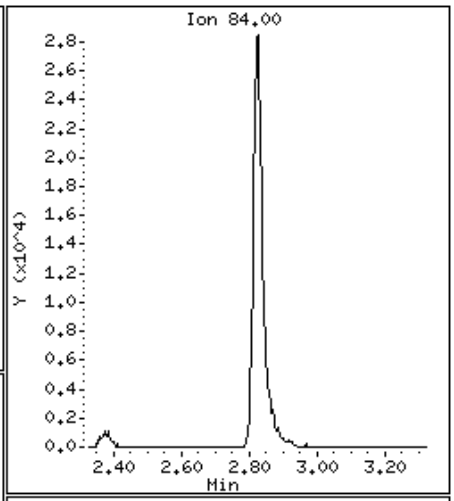
Sample Info: VSTD010;VSTD010;1;6;

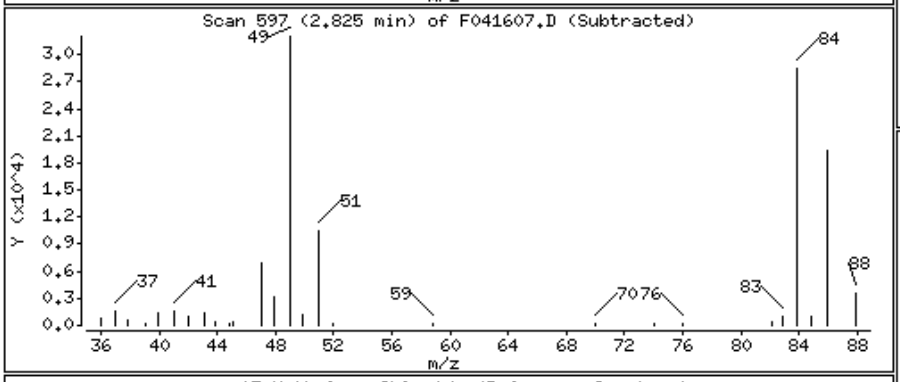
Purge Volume: 5.0 Operator: FT

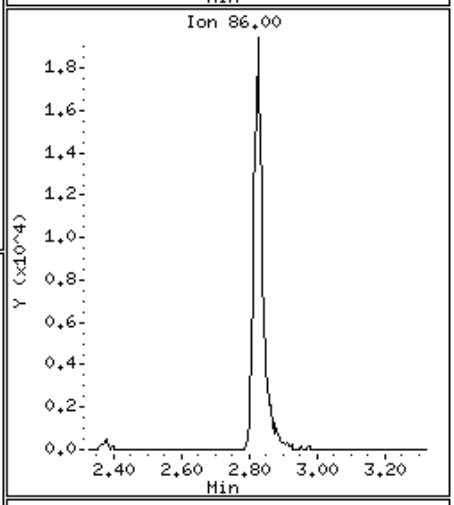
Column phase: DB624 Column diameter: 0.18

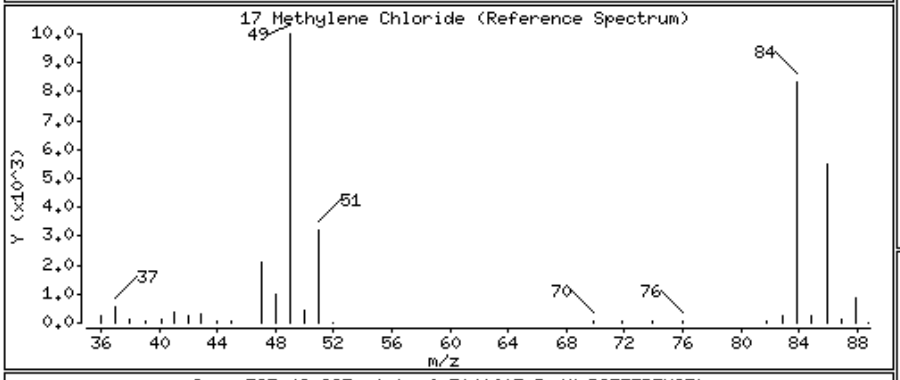
17 Methylene Chloride Concentration: 10.60 ug/l

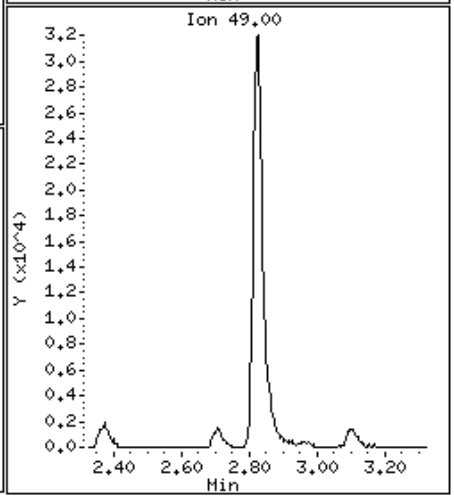


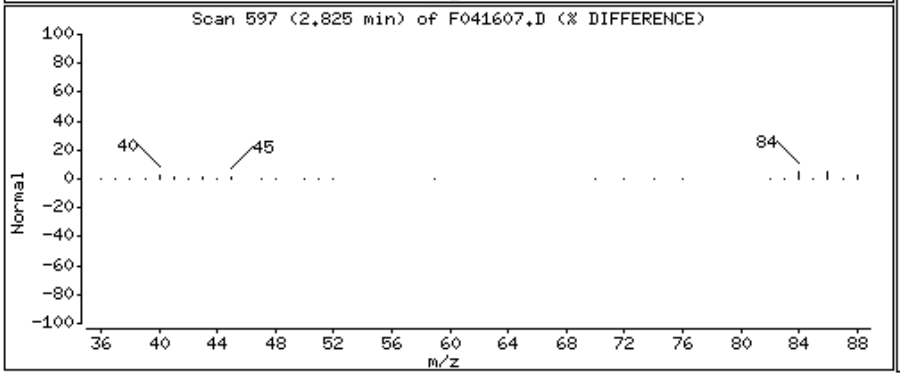












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 19

Date : 16-APR-2024 13:26

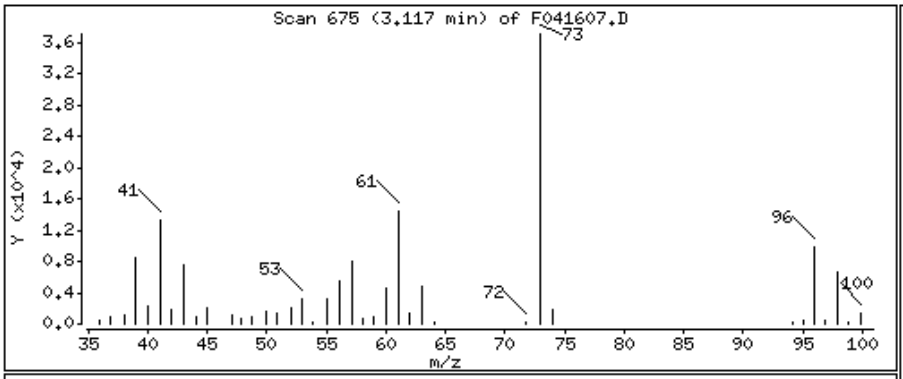
Client ID: VSTD010 Instrument: voa11.i

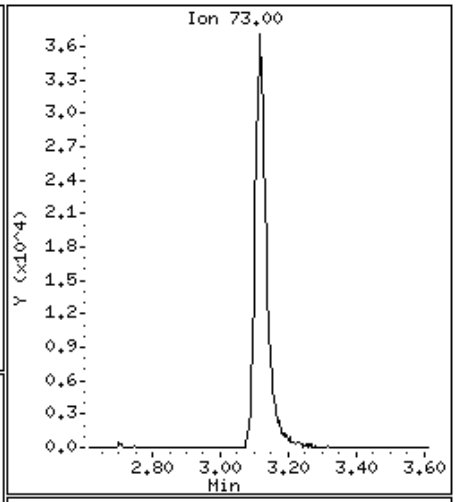
Sample Info: VSTD010;VSTD010;1;6;

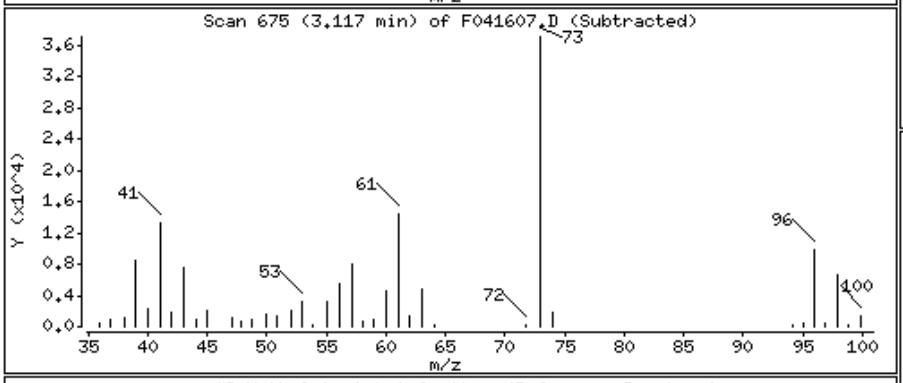
Purge Volume: 5.0 Operator: FT

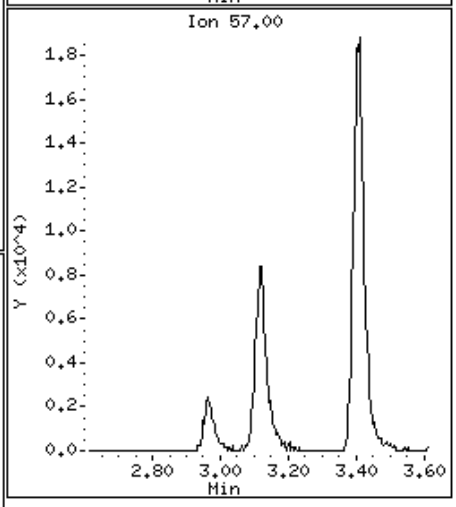
Column phase: DB624 Column diameter: 0.18

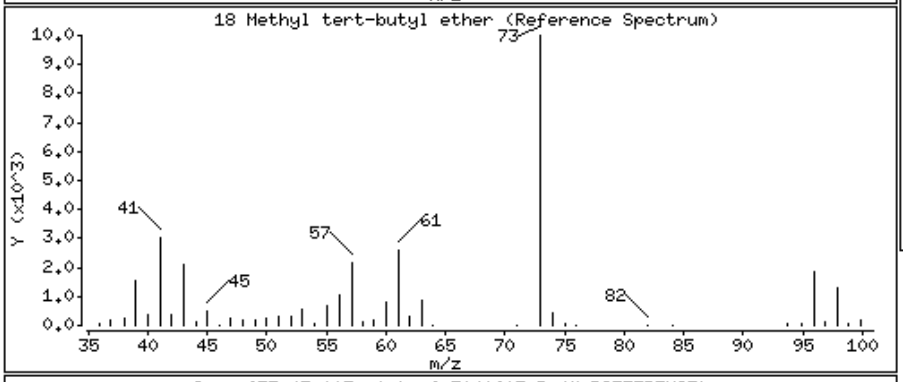
18 Methyl tert-butyl ether Concentration: 10.36 ug/l

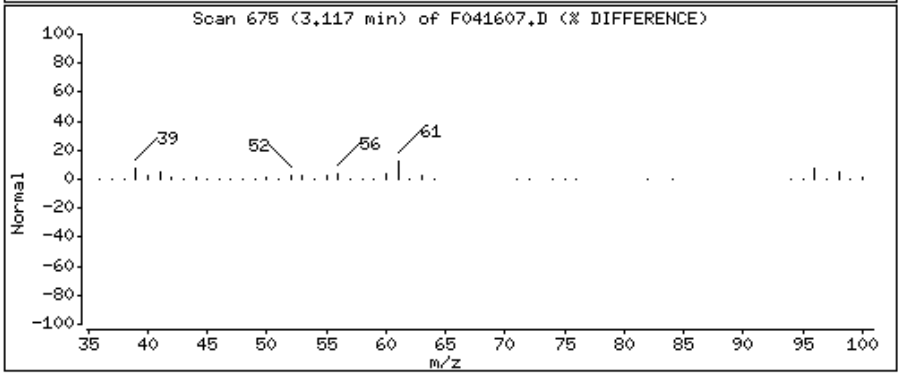












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 20

Date : 16-APR-2024 13:26

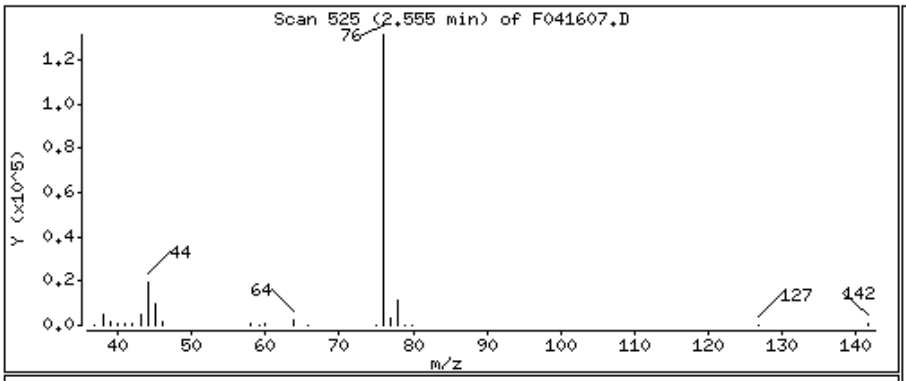
Client ID: VSTD010 Instrument: voa11.i

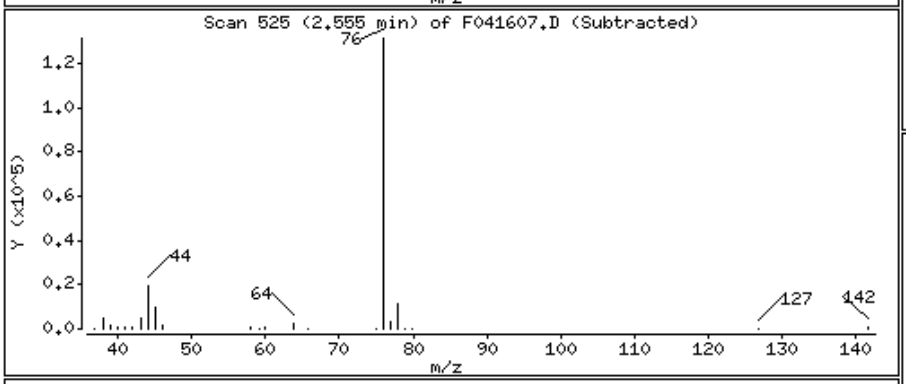
Sample Info: VSTD010;VSTD010;1;6;

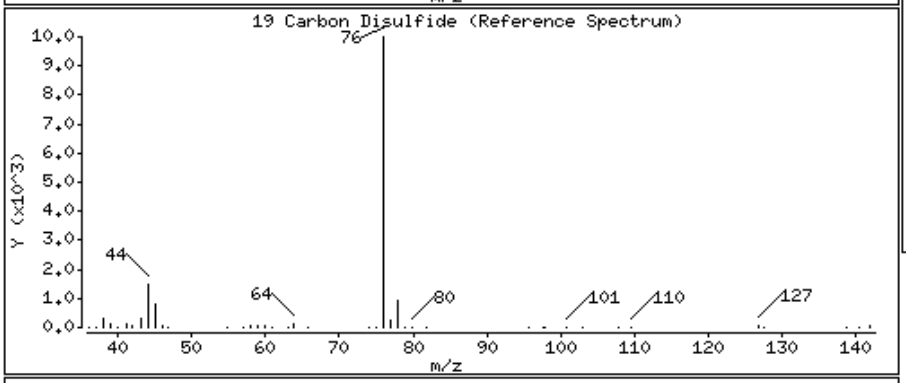
Purge Volume: 5.0 Operator: FT

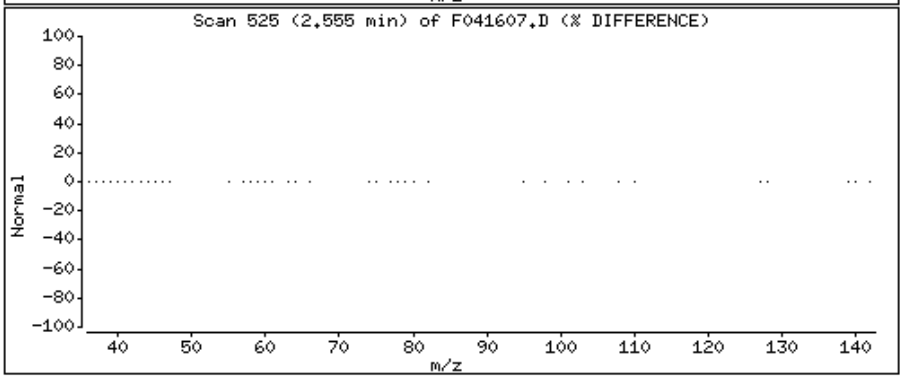
Column phase: DB624 Column diameter: 0.18

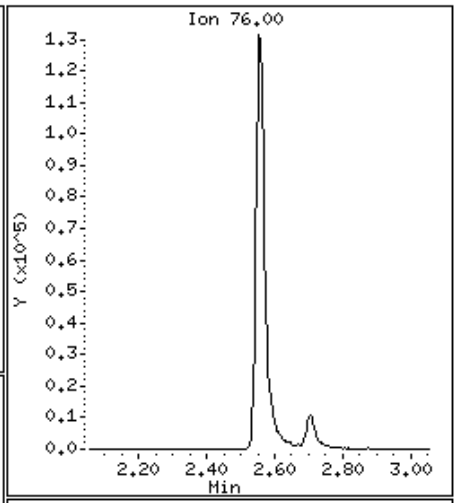
19 Carbon Disulfide Concentration: 19.92 ug/l

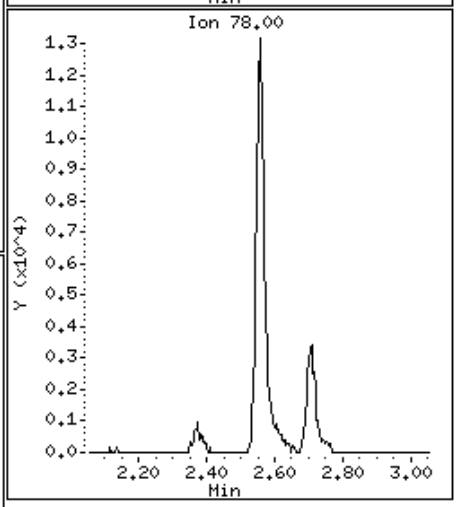












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

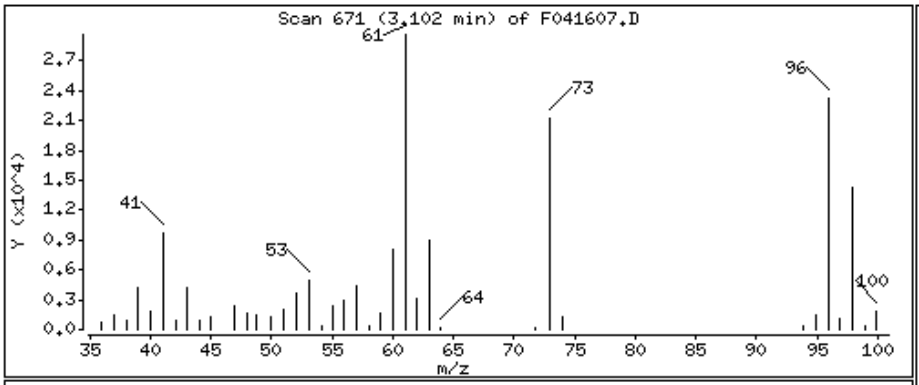
Operator: FT

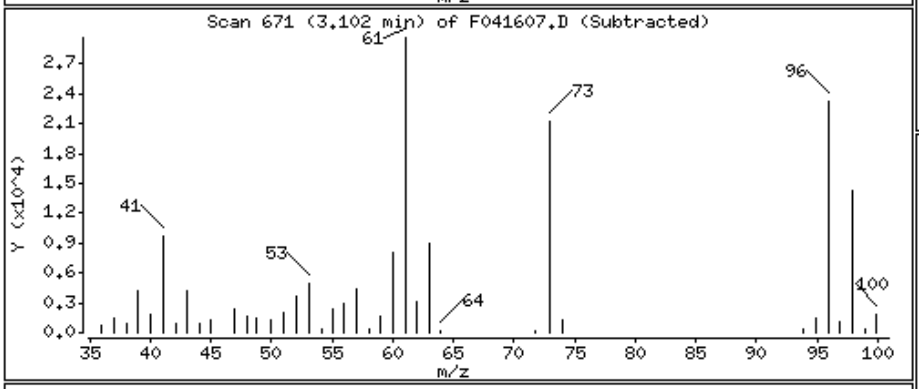
Column phase: DB624

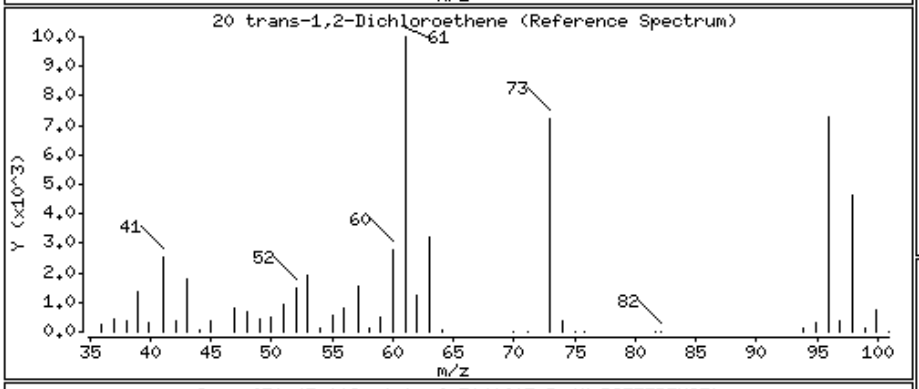
Column diameter: 0.18

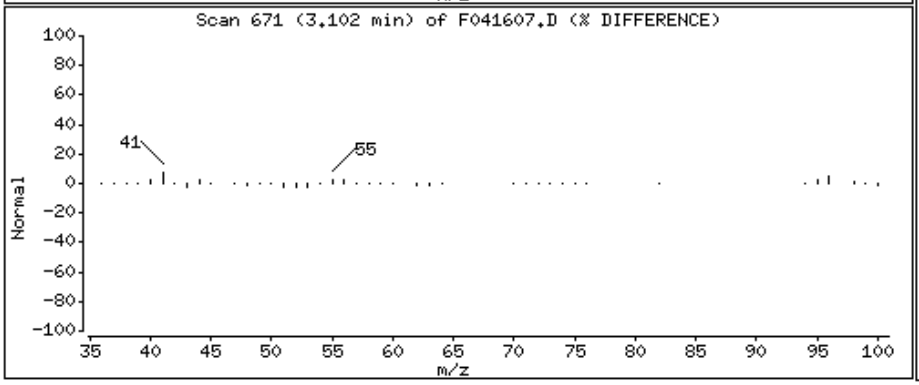
20 trans-1,2-Dichloroethene

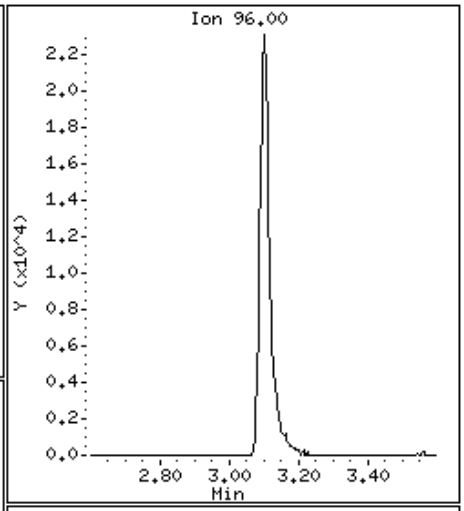
Concentration: 10.54 ug/l

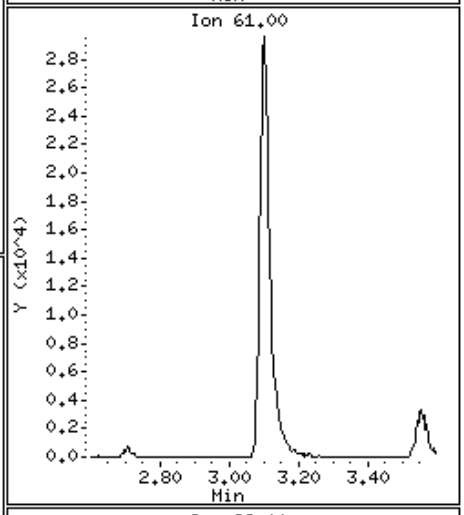


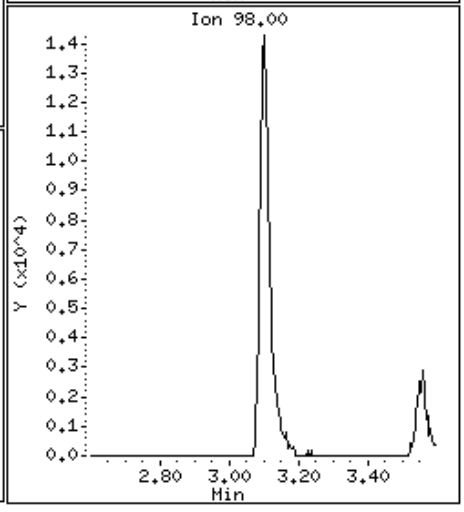












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

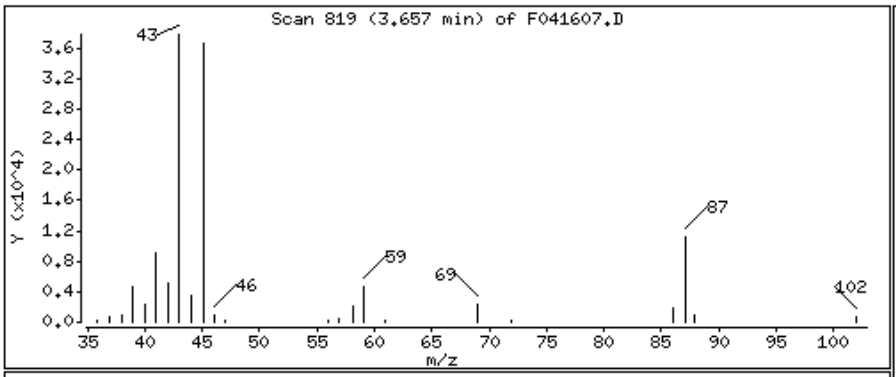
Operator: FT

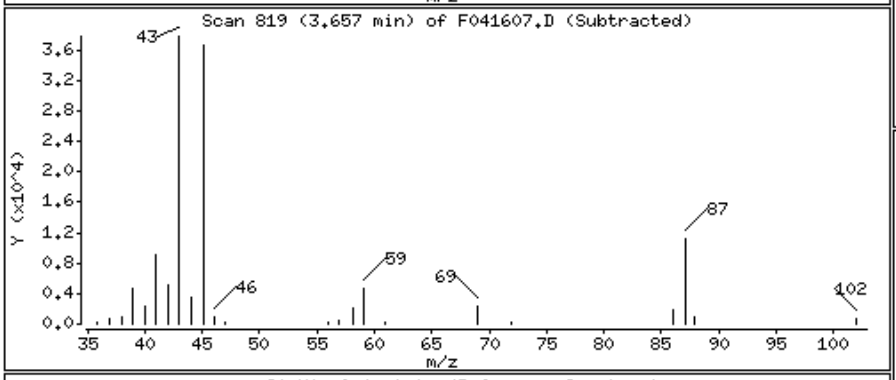
Column phase: DB624

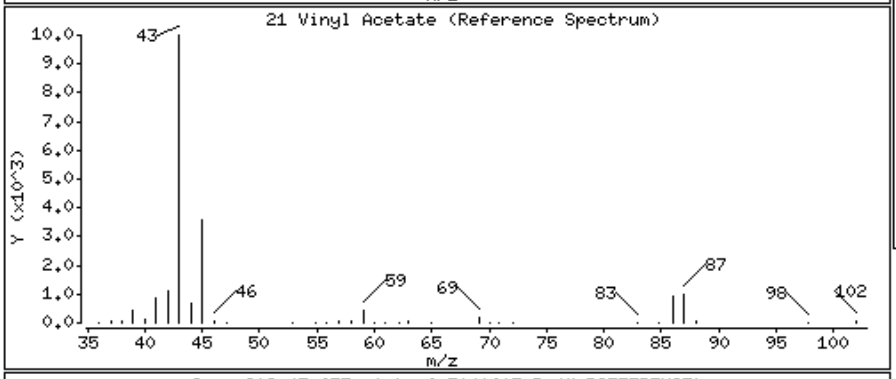
Column diameter: 0.18

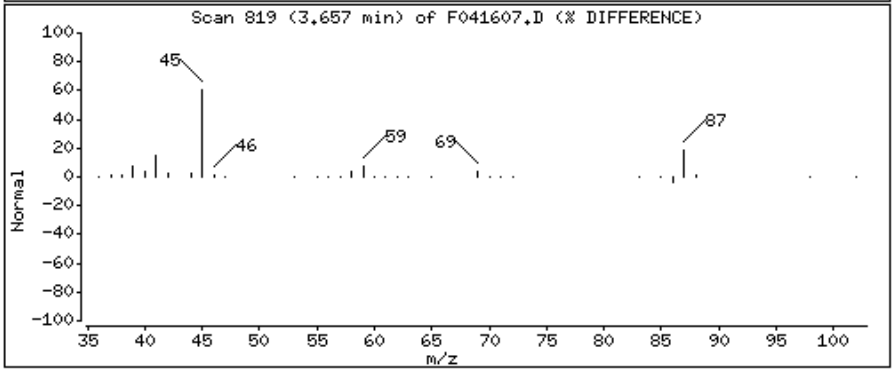
21 Vinyl Acetate

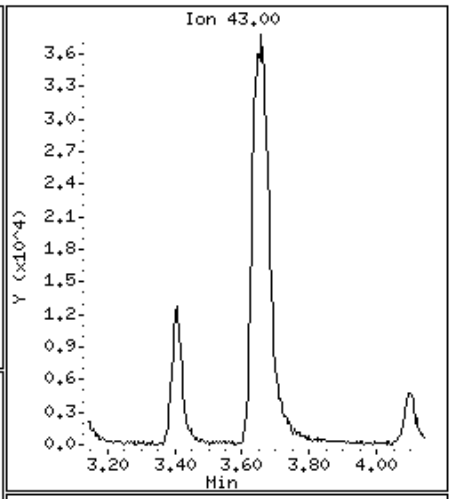
Concentration: 19.33 ug/l

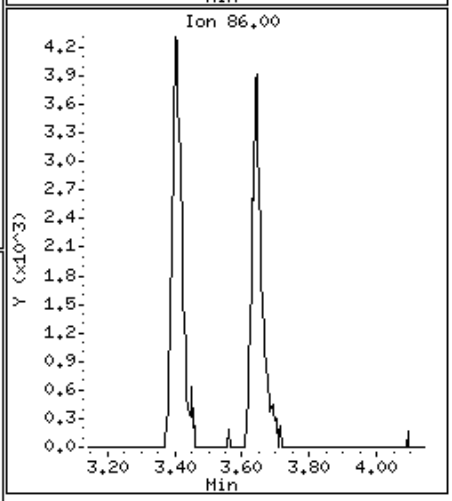












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 23

Date : 16-APR-2024 13:26

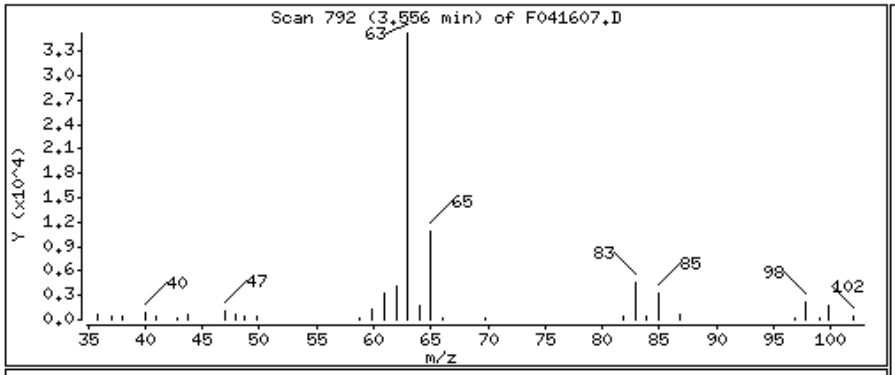
Client ID: VSTD010 Instrument: voa11.i

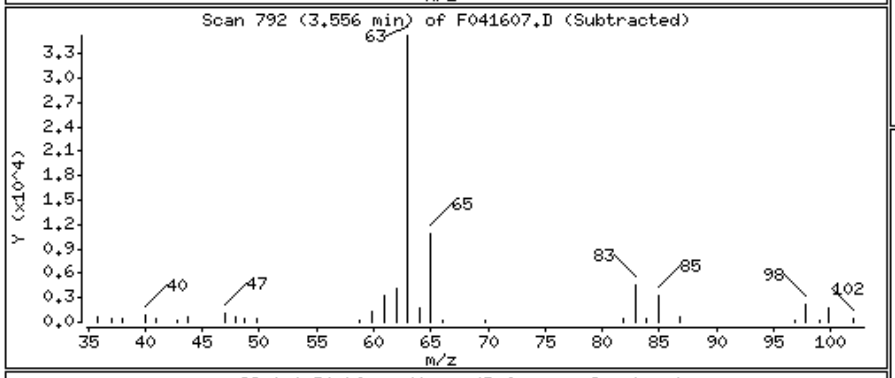
Sample Info: VSTD010;VSTD010;1;6;

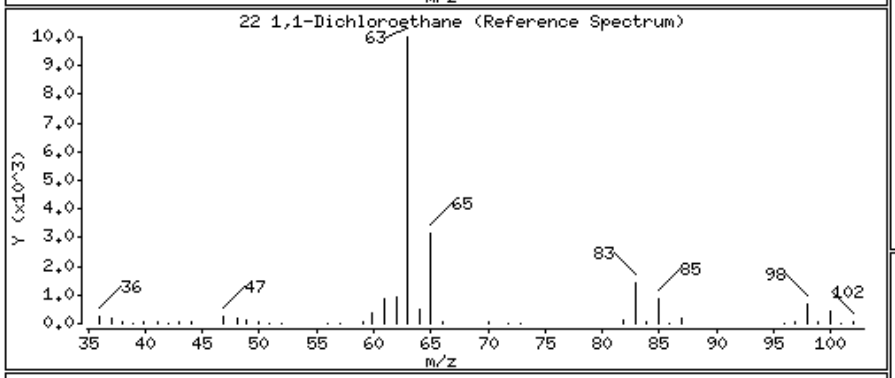
Purge Volume: 5.0 Operator: FT

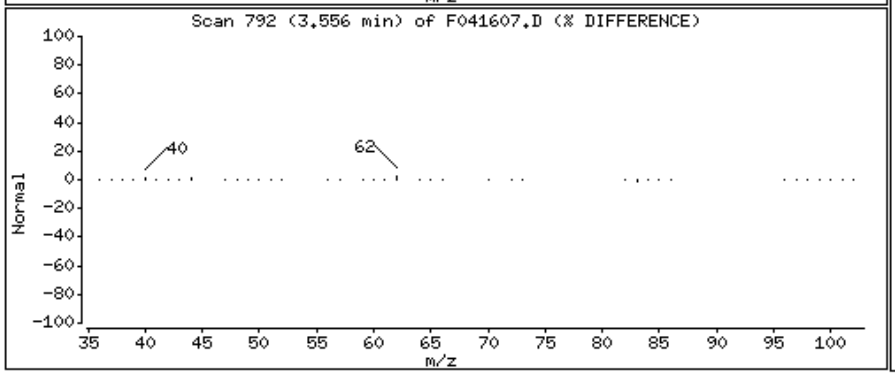
Column phase: DB624 Column diameter: 0.18

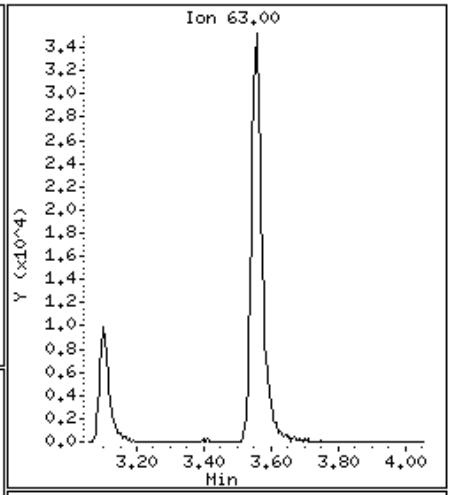
22 1,1-Dichloroethane Concentration: 10.53 ug/l

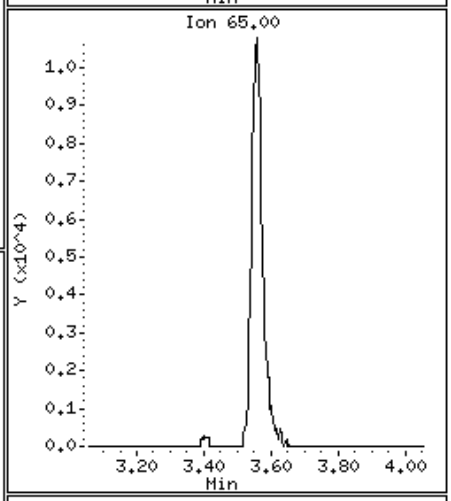


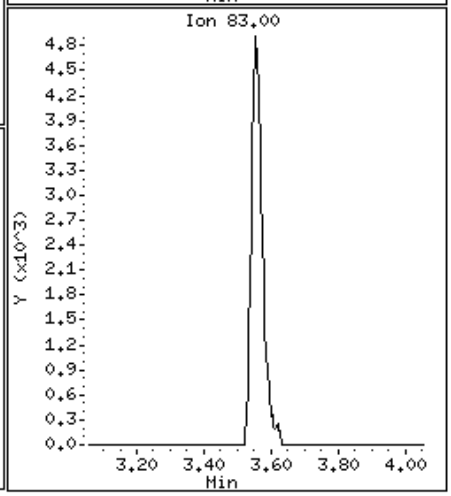












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 24

Date : 16-APR-2024 13:26

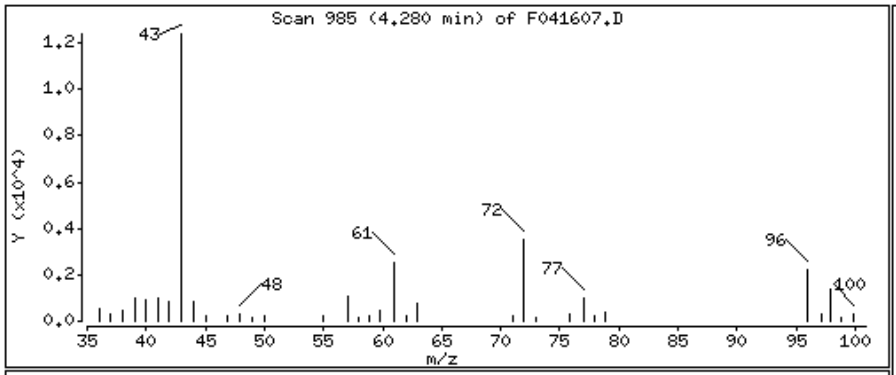
Client ID: VSTD010 Instrument: voa11.i

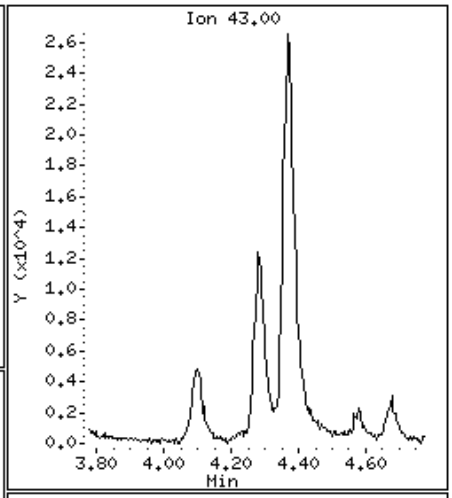
Sample Info: VSTD010;VSTD010;1;6;

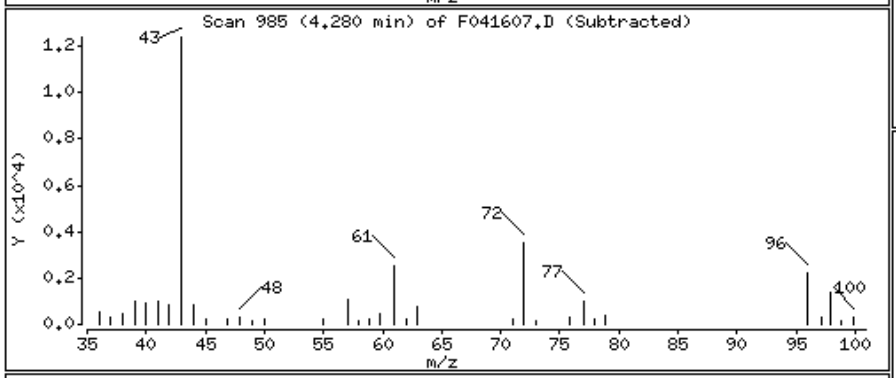
Purge Volume: 5.0 Operator: FT

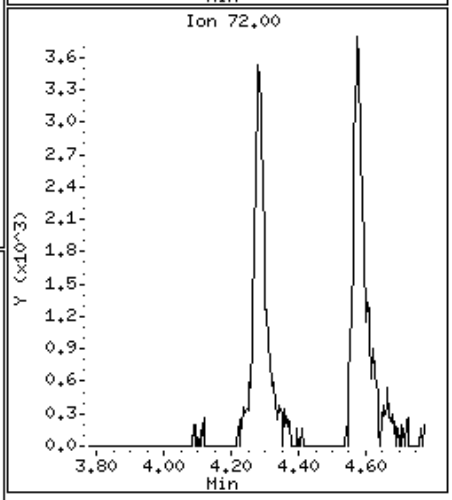
Column phase: DB624 Column diameter: 0.18

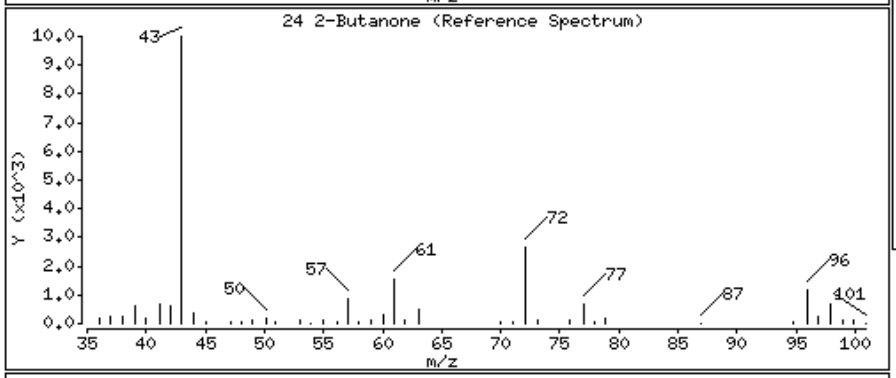
24 2-Butanone Concentration: 20.15 ug/l

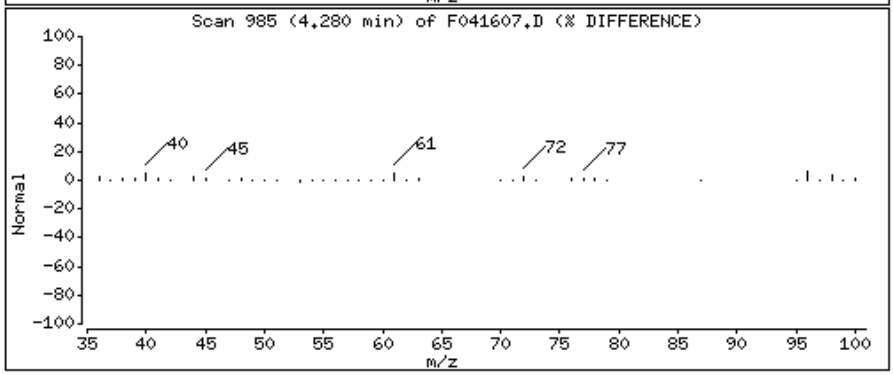












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 25

Date : 16-APR-2024 13:26

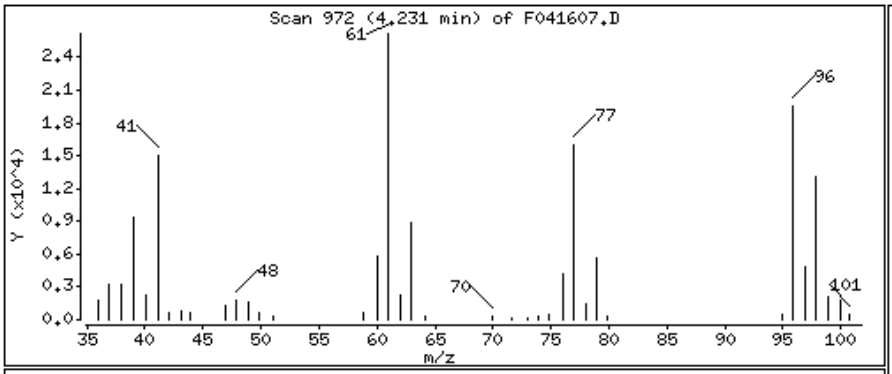
Client ID: VSTD010 Instrument: voa11.i

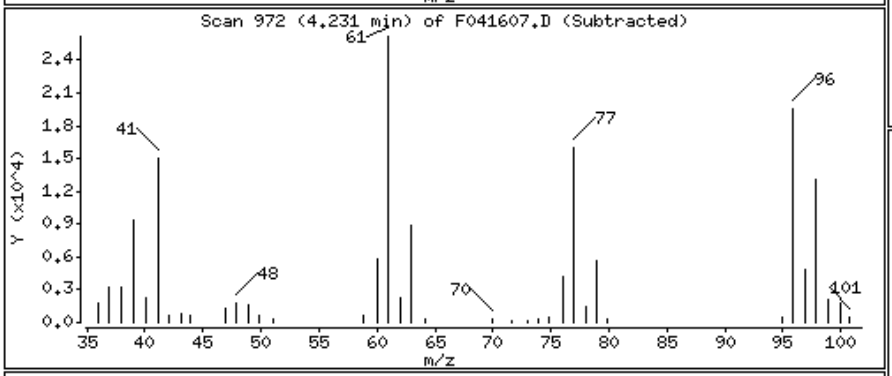
Sample Info: VSTD010;VSTD010;1;6;

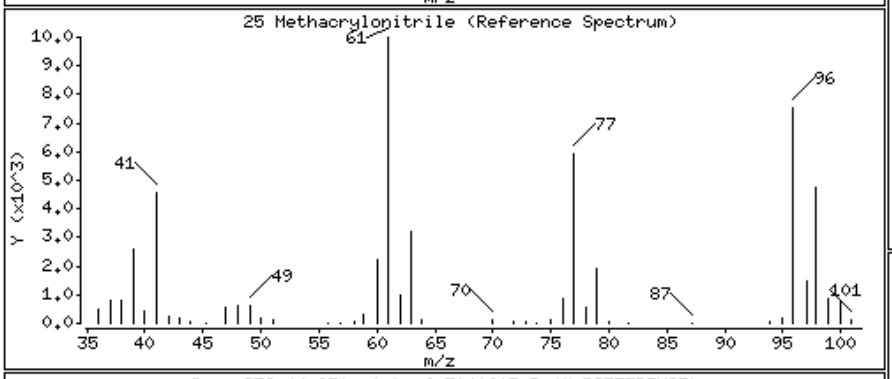
Purge Volume: 5.0 Operator: FT

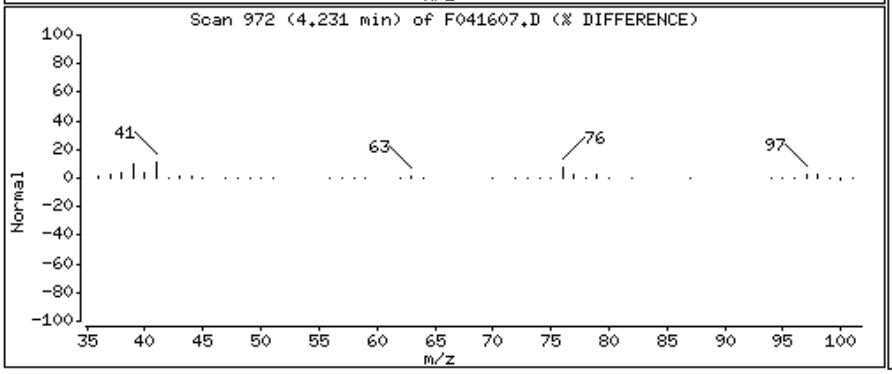
Column phase: DB624 Column diameter: 0.18

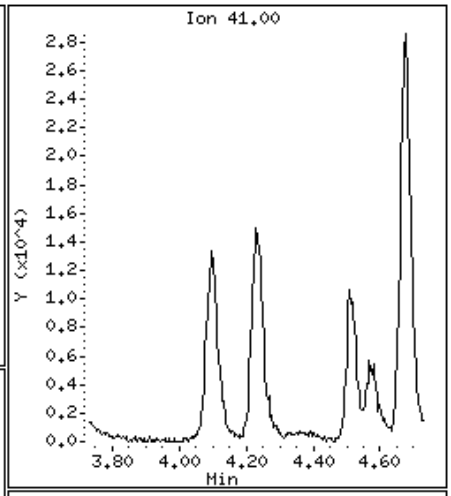
25 Methacrylonitrile Concentration: 10.05 ug/l

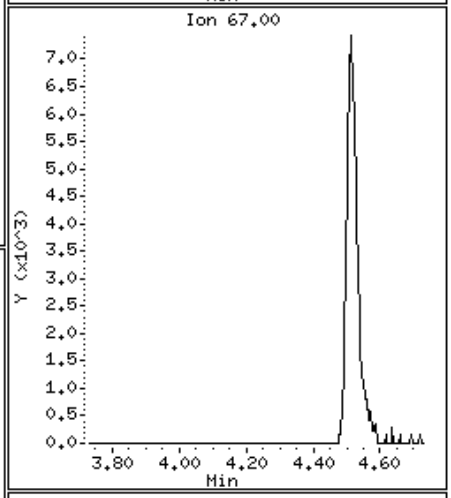


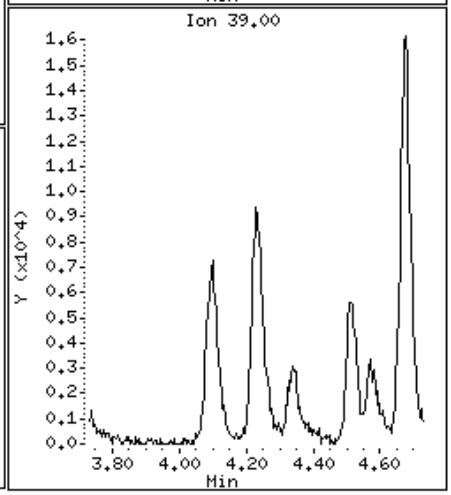












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 26

Date : 16-APR-2024 13:26

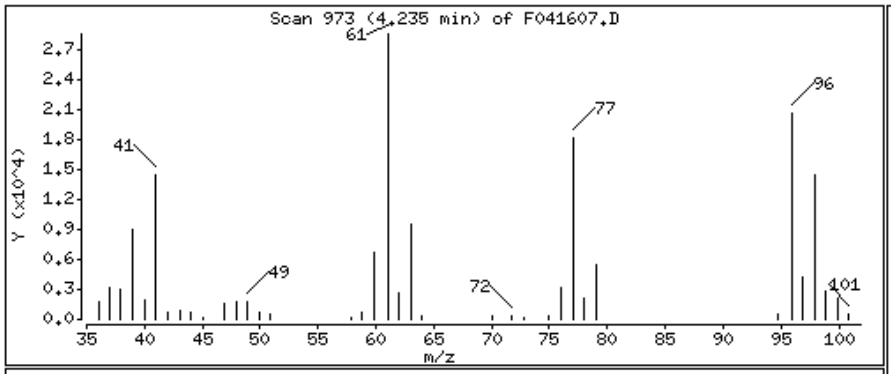
Client ID: VSTD010 Instrument: voa11.i

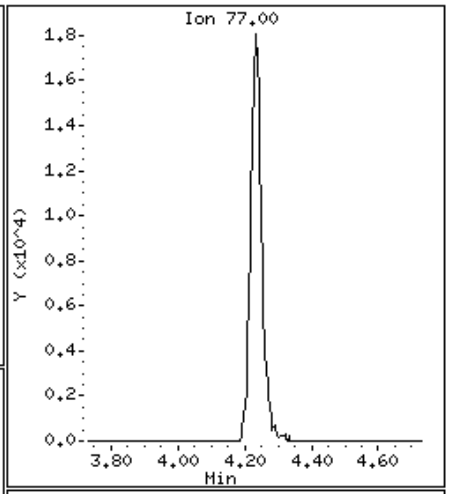
Sample Info: VSTD010;VSTD010;1;6;

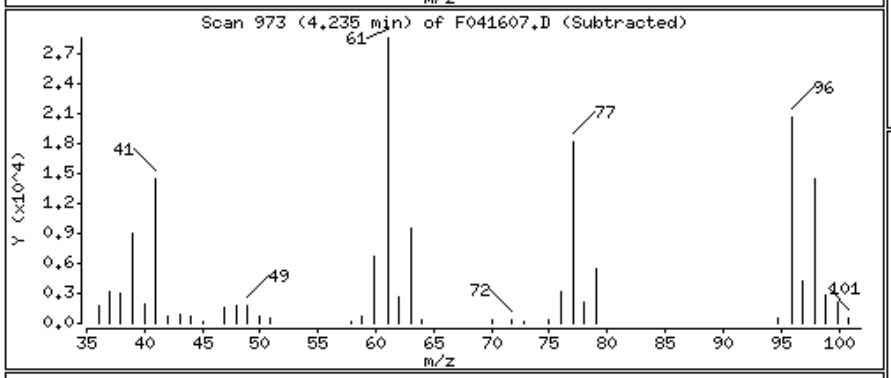
Purge Volume: 5.0 Operator: FT

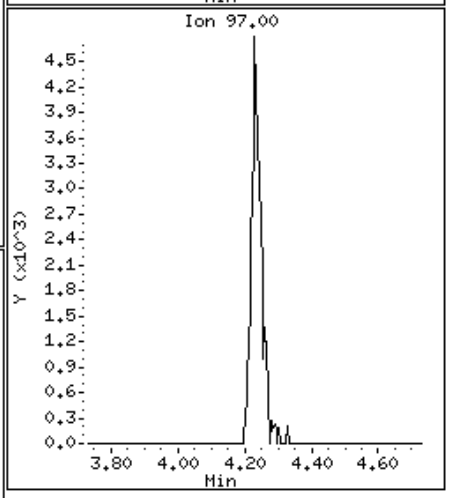
Column phase: DB624 Column diameter: 0.18

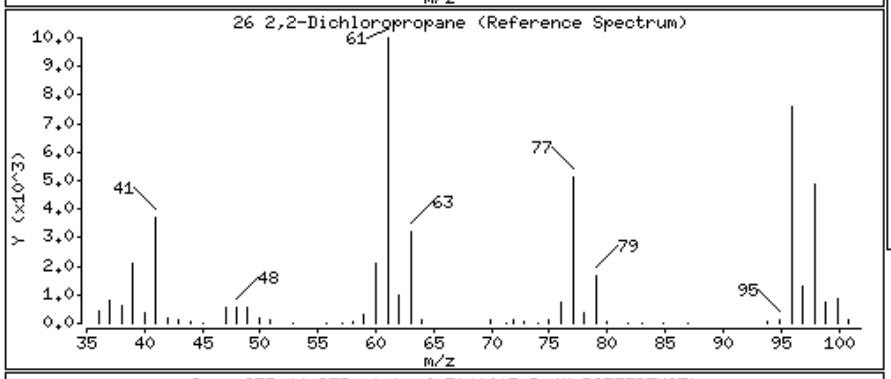
26 2,2-Dichloropropane Concentration: 10.32 ug/l

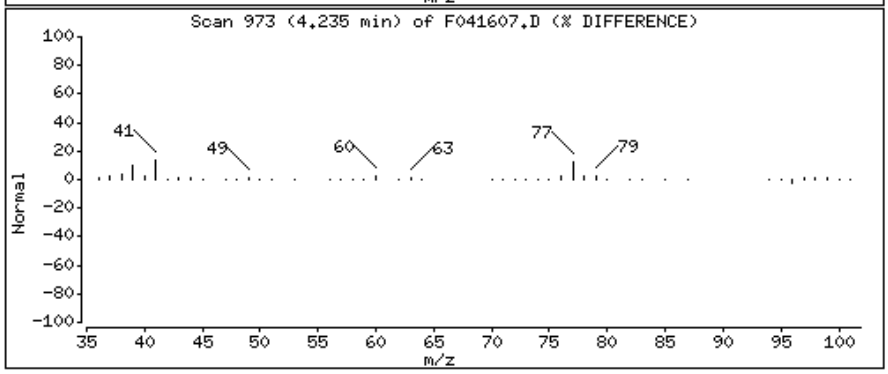












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 27

Date : 16-APR-2024 13:26

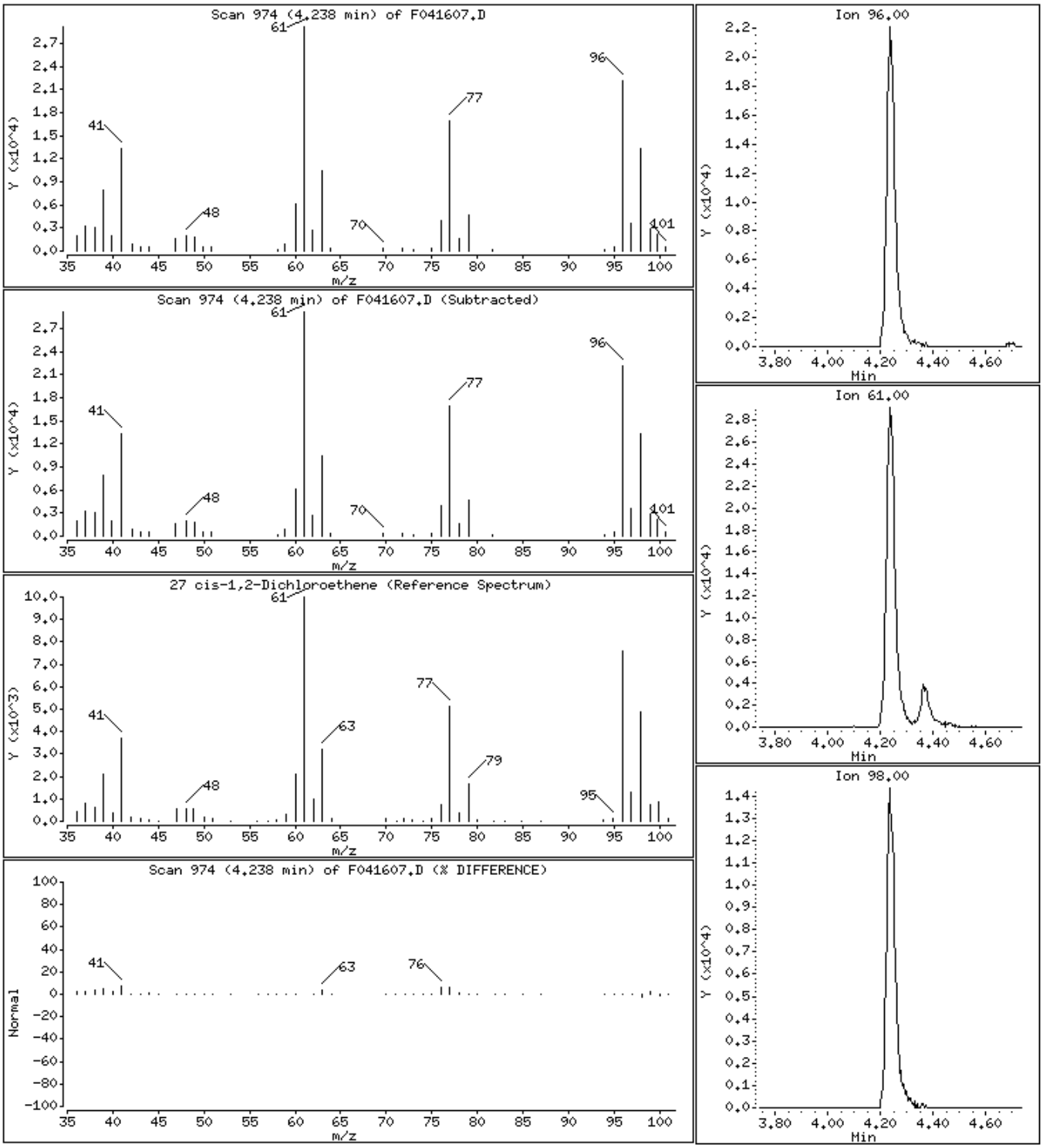
Client ID: VSTD010 Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0 Operator: FT

Column phase: DB624 Column diameter: 0.18

27 cis-1,2-Dichloroethene Concentration: 10.35 ug/l



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Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

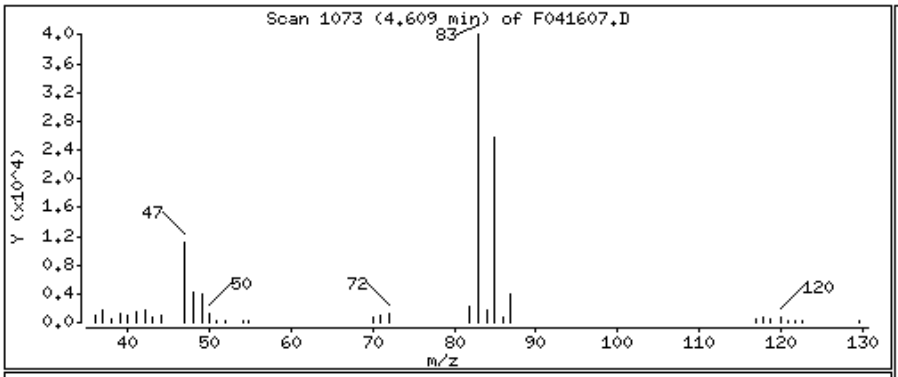
Operator: FT

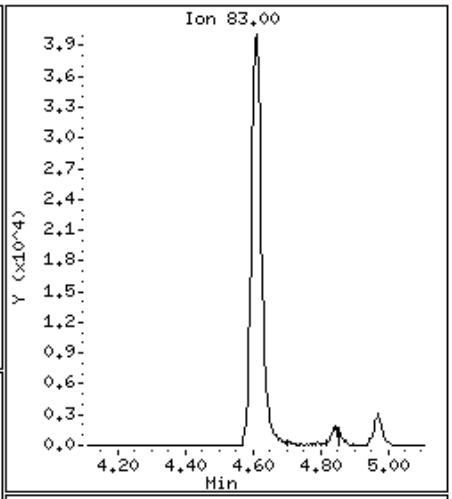
Column phase: DB624

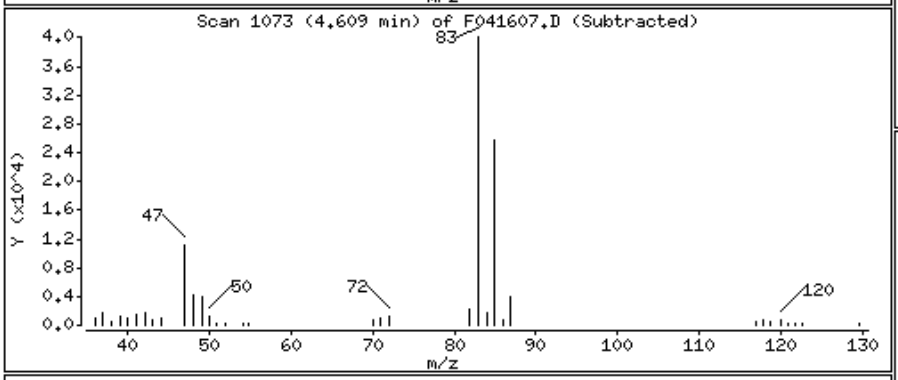
Column diameter: 0.18

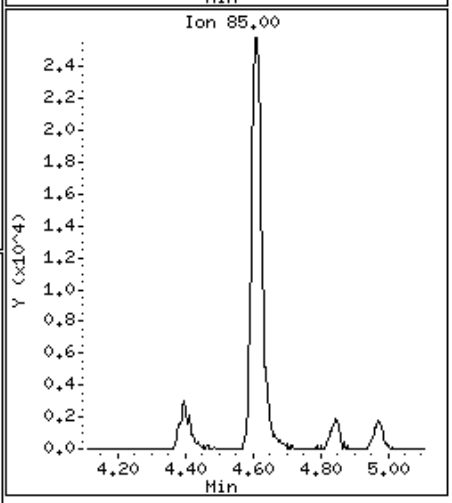
28 Chloroform

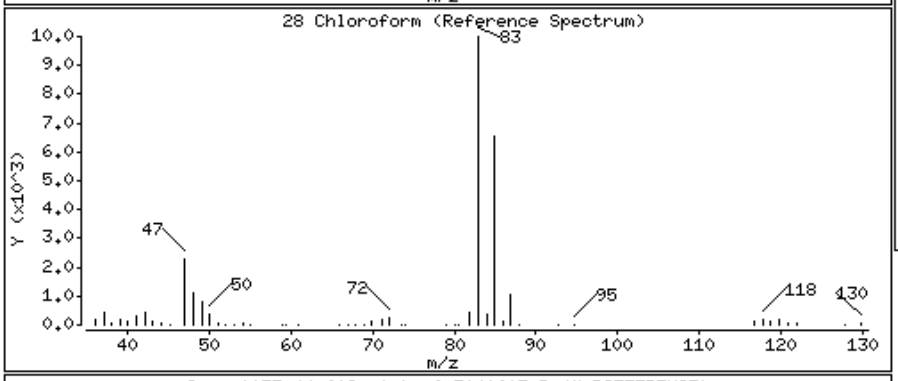
Concentration: 9.92 ug/l

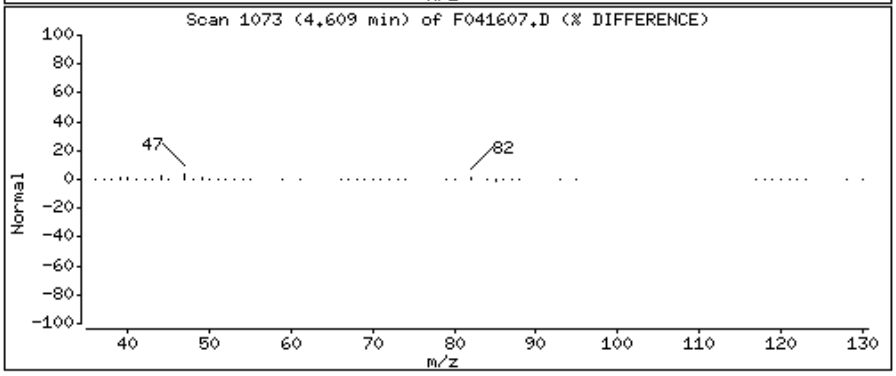












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 29

Date : 16-APR-2024 13:26

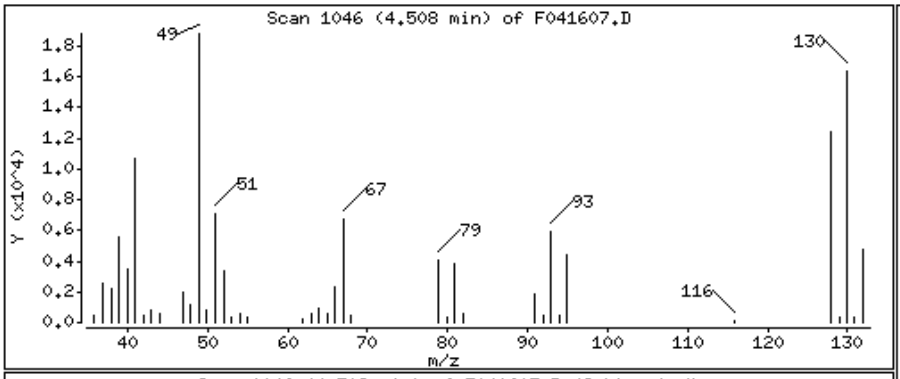
Client ID: VSTD010 Instrument: voa11.i

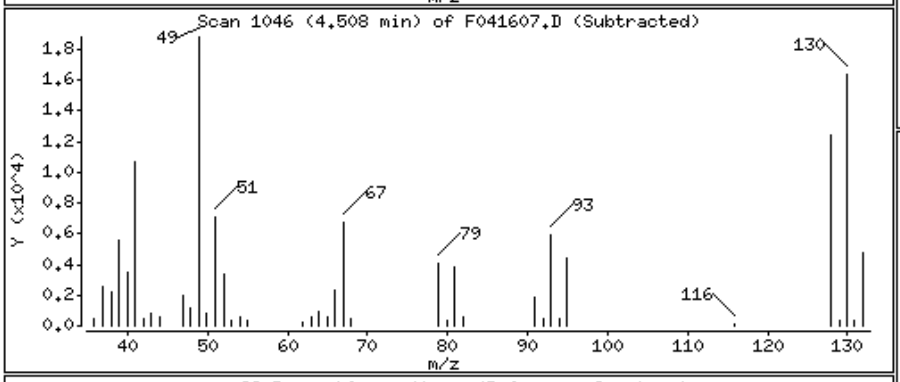
Sample Info: VSTD010;VSTD010;1;6;

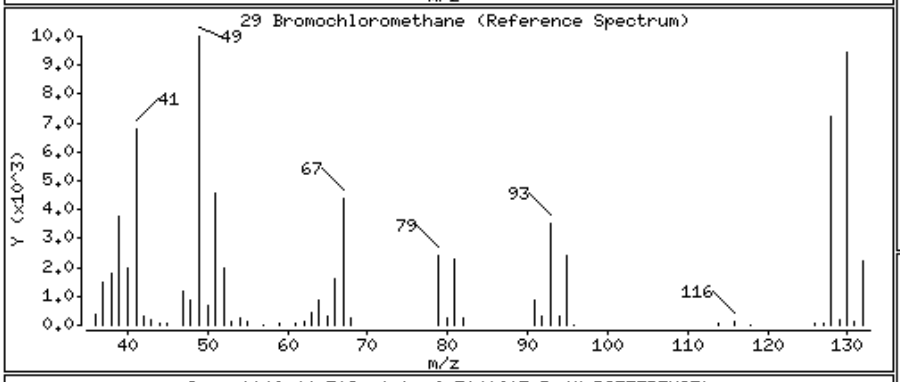
Purge Volume: 5.0 Operator: FT

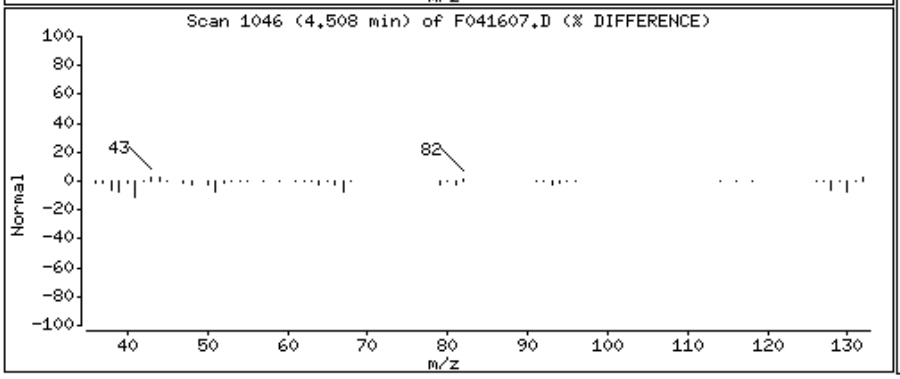
Column phase: DB624 Column diameter: 0.18

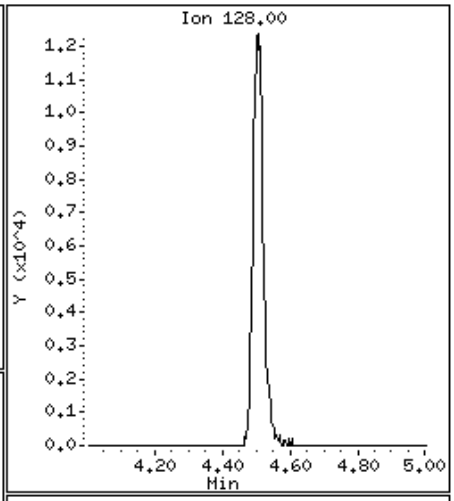
29 Bromochloromethane Concentration: 10.20 ug/l

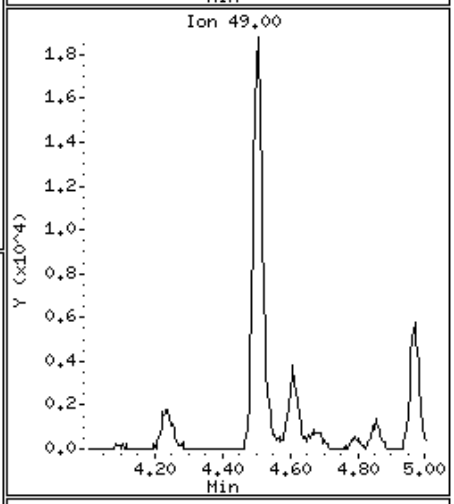


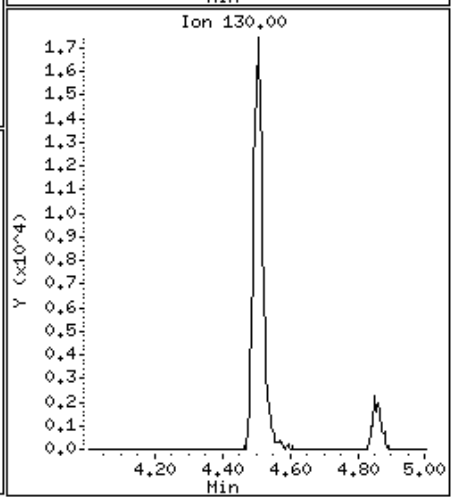












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 30

Date : 16-APR-2024 13:26

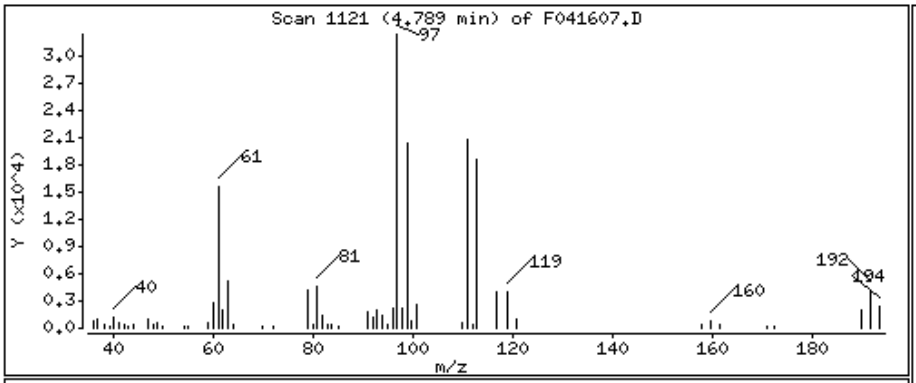
Client ID: VSTD010 Instrument: voa11.i

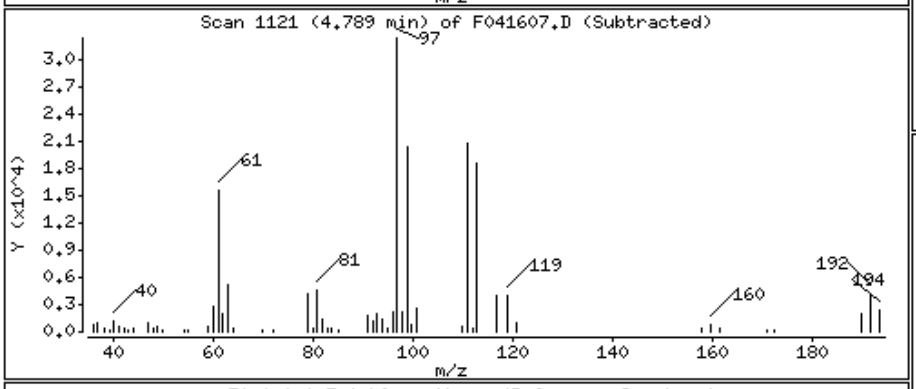
Sample Info: VSTD010;VSTD010;1;6;

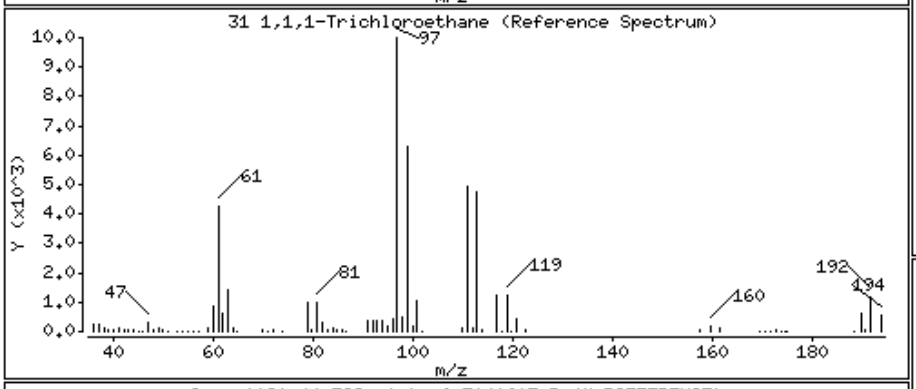
Purge Volume: 5.0 Operator: FT

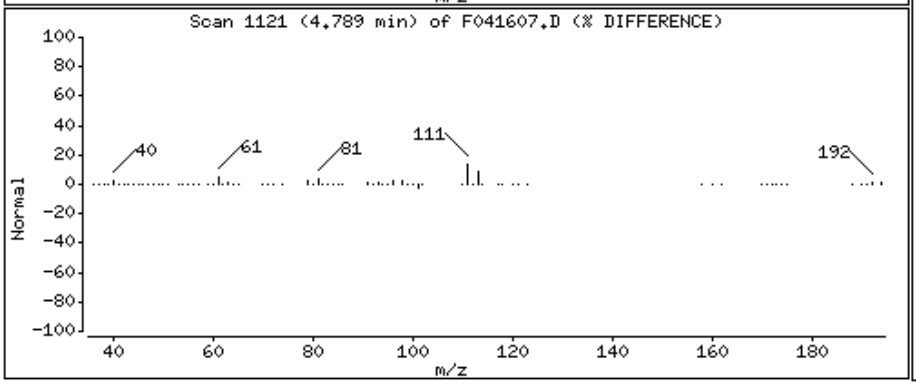
Column phase: DB624 Column diameter: 0.18

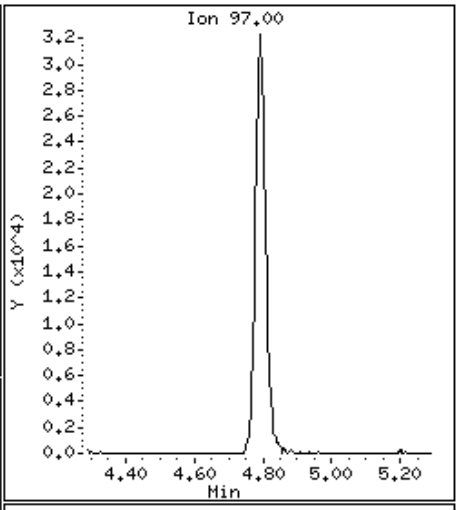
31 1,1,1-Trichloroethane Concentration: 9.92 ug/l

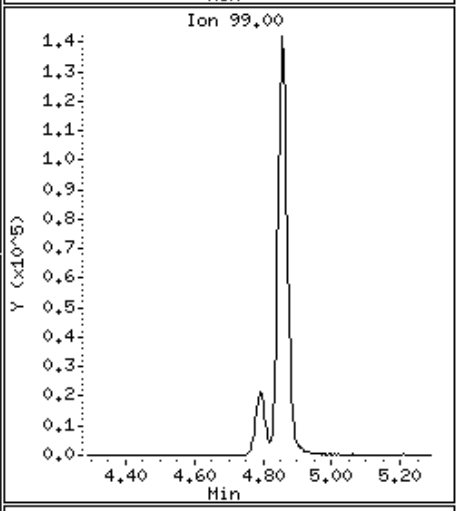


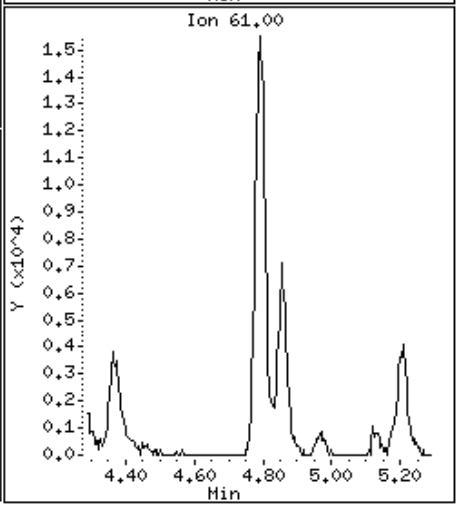












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 31

Date : 16-APR-2024 13:26

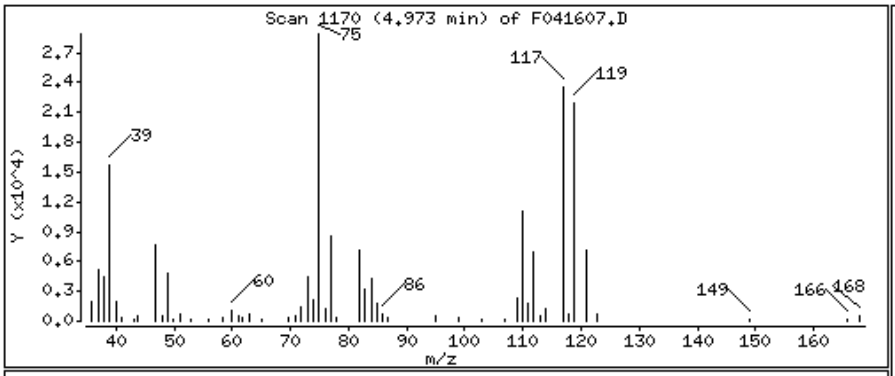
Client ID: VSTD010 Instrument: voa11.i

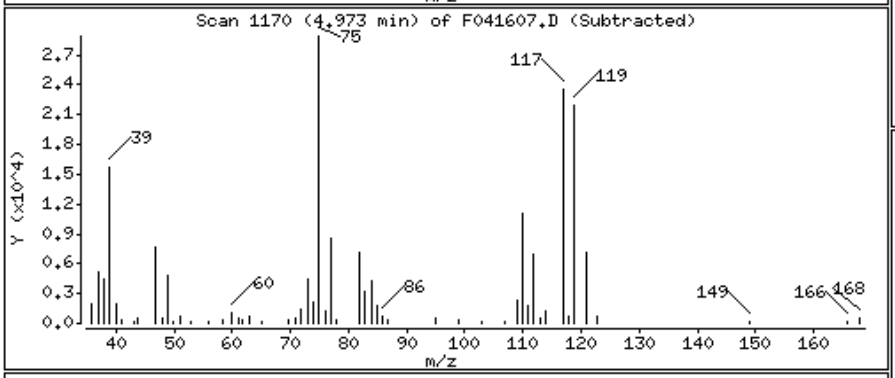
Sample Info: VSTD010;VSTD010;1;6;

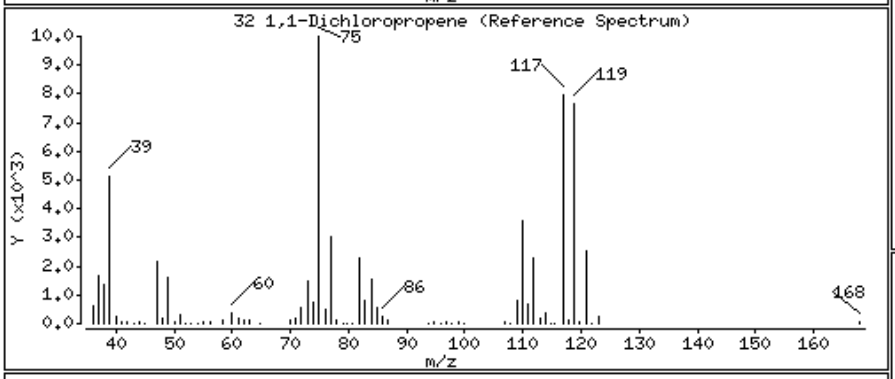
Purge Volume: 5.0 Operator: FT

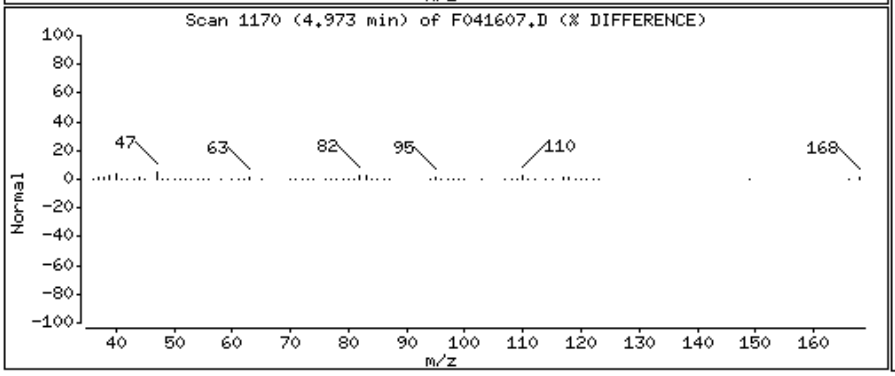
Column phase: DB624 Column diameter: 0.18

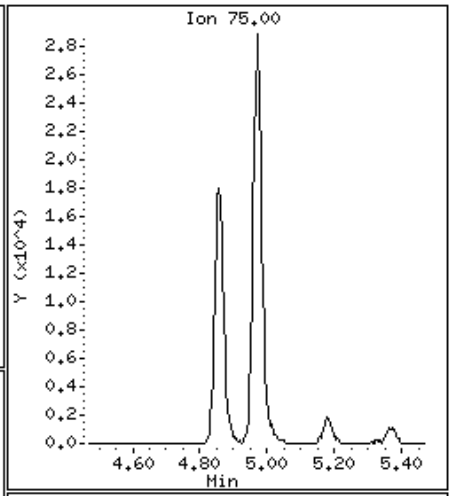
32 1,1-Dichloropropene Concentration: 10.03 ug/l

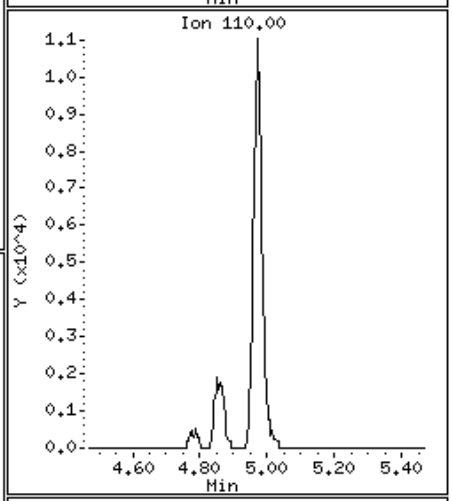


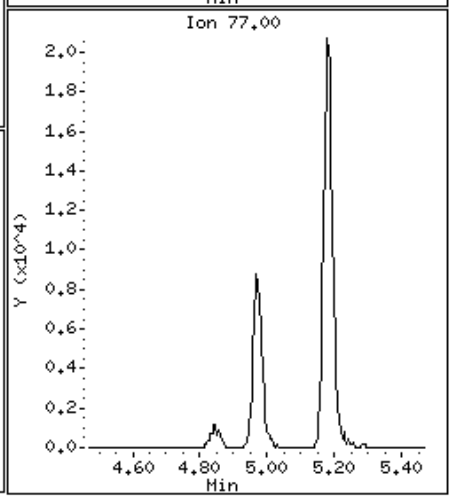












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 32

Date : 16-APR-2024 13:26

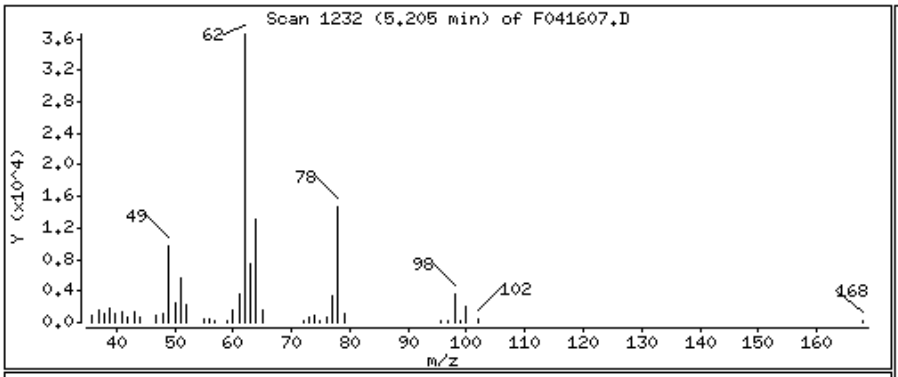
Client ID: VSTD010 Instrument: voa11.i

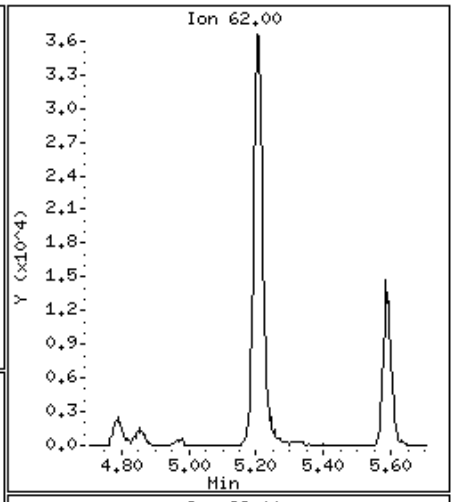
Sample Info: VSTD010;VSTD010;1;6;

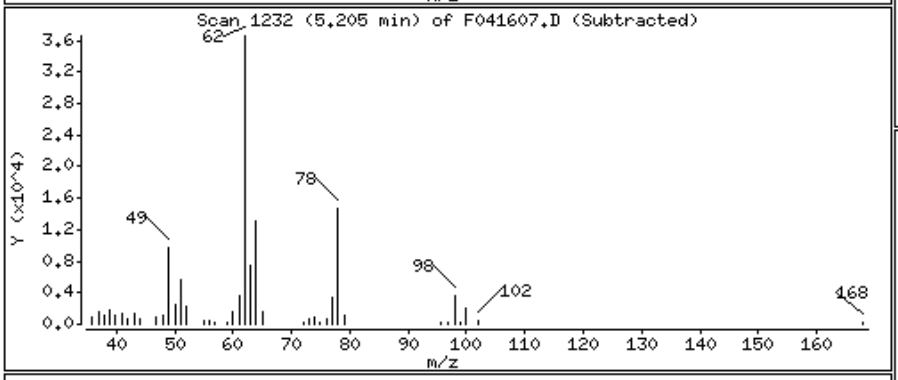
Purge Volume: 5.0 Operator: FT

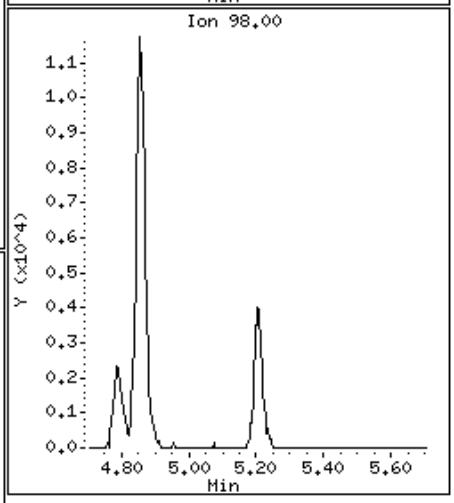
Column phase: DB624 Column diameter: 0.18

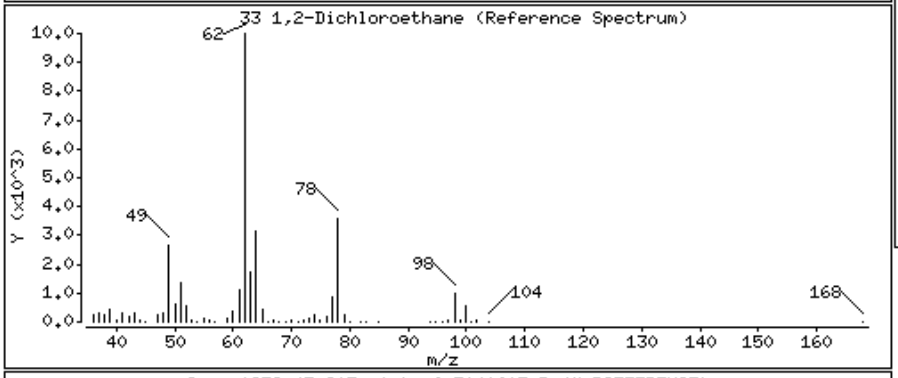
33 1,2-Dichloroethane Concentration: 10.38 ug/l

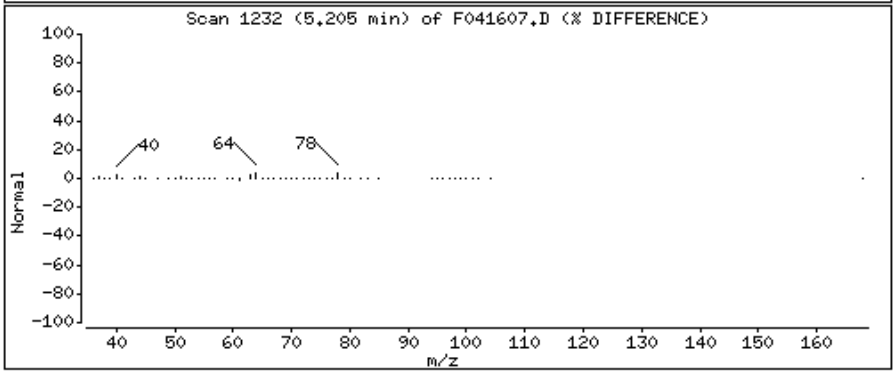












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

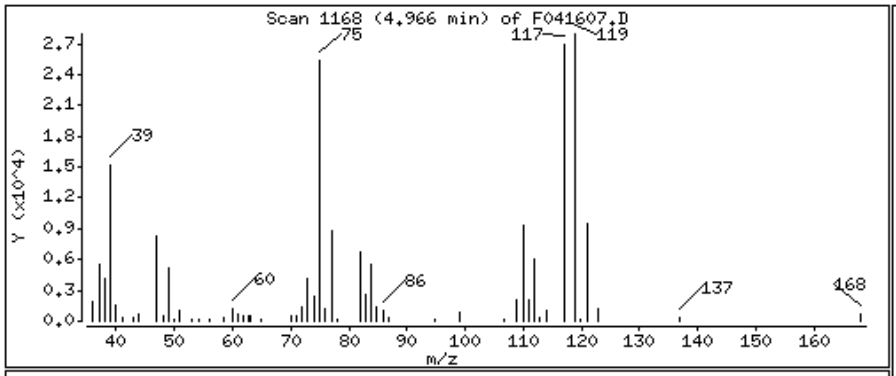
Operator: FT

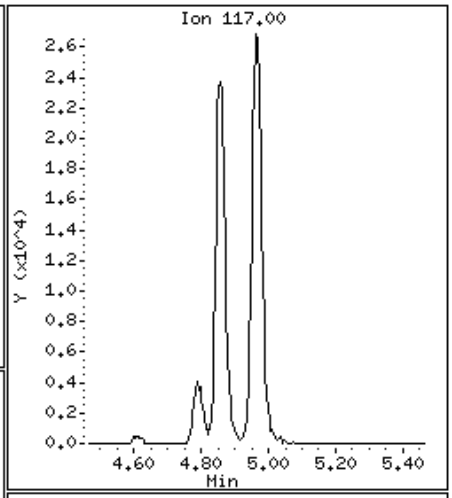
Column phase: DB624

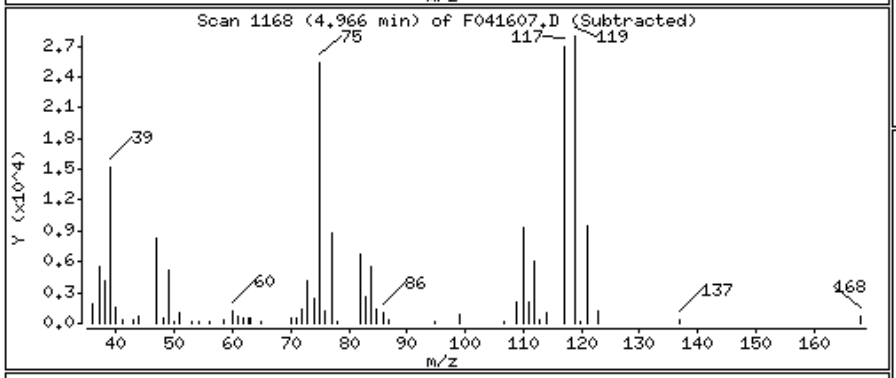
Column diameter: 0.18

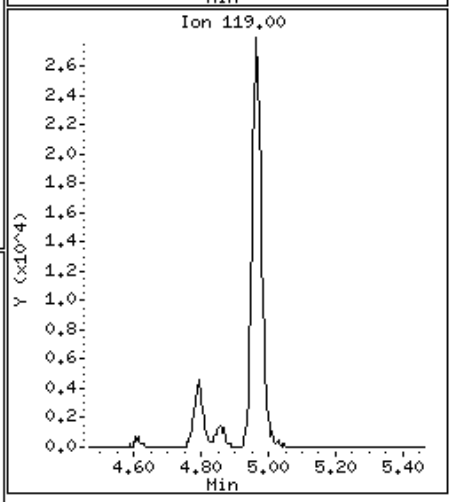
34 Carbon Tetrachloride

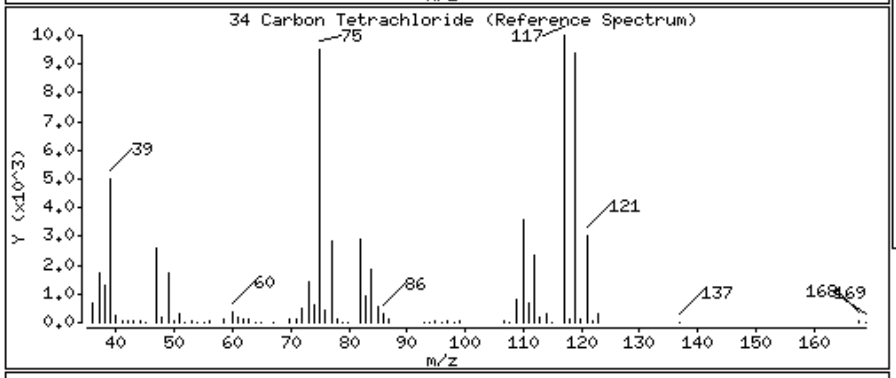
Concentration: 10.27 ug/l

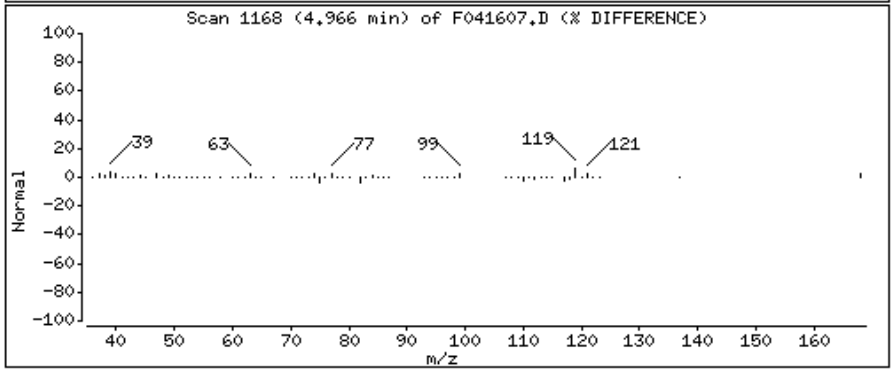












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

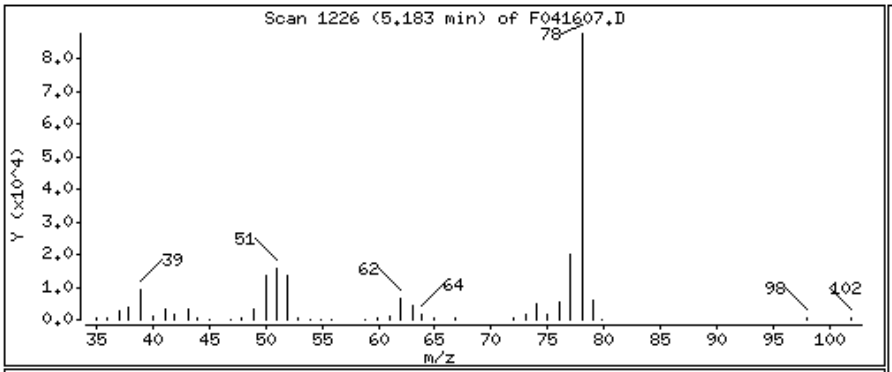
Operator: FT

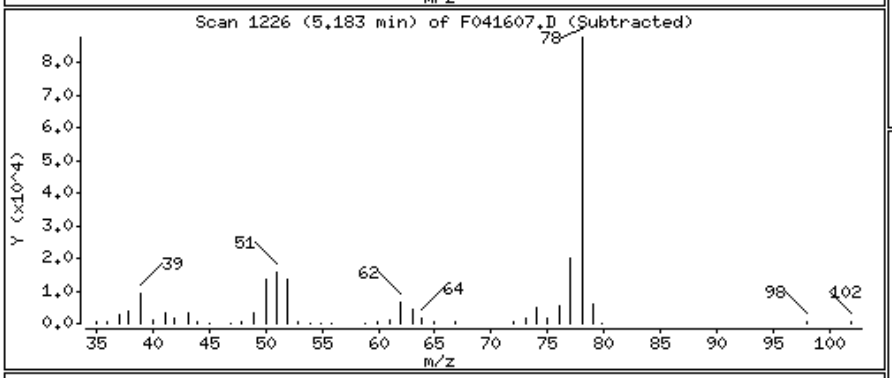
Column phase: DB624

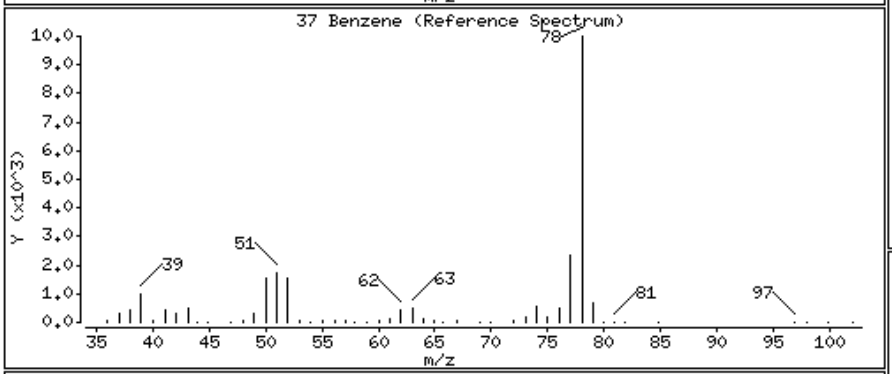
Column diameter: 0.18

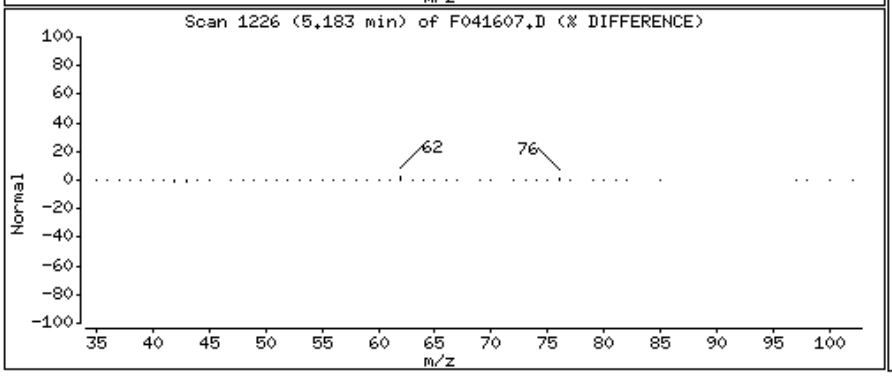
37 Benzene

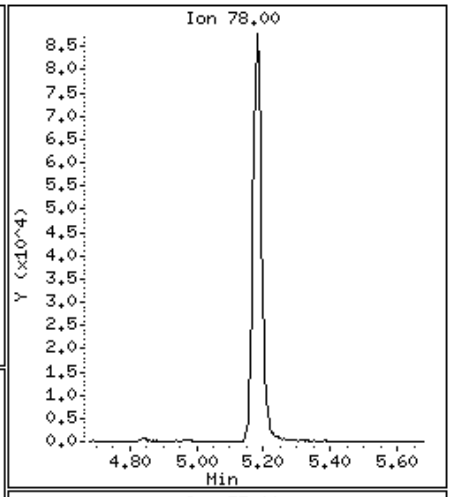
Concentration: 10.01 ug/l

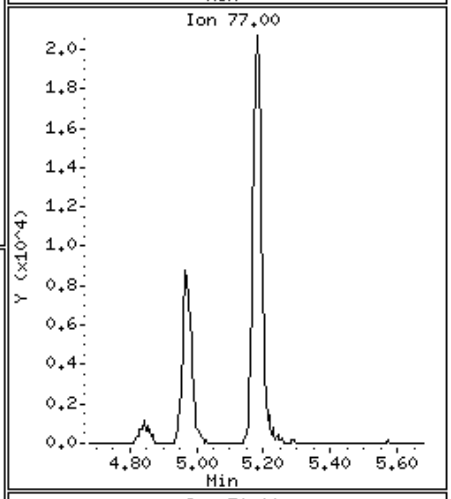


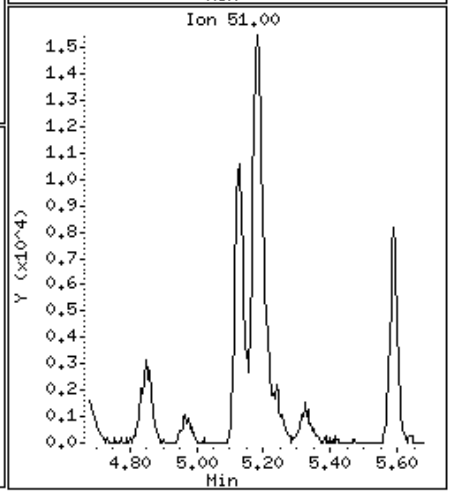












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 35

Date : 16-APR-2024 13:26

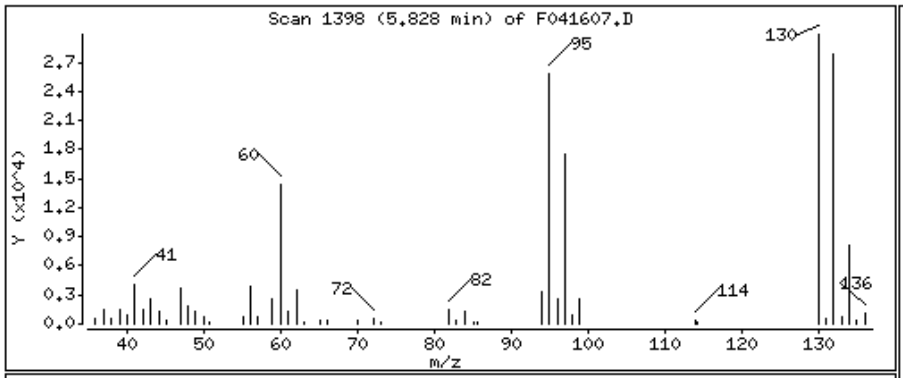
Client ID: VSTD010 Instrument: voa11.i

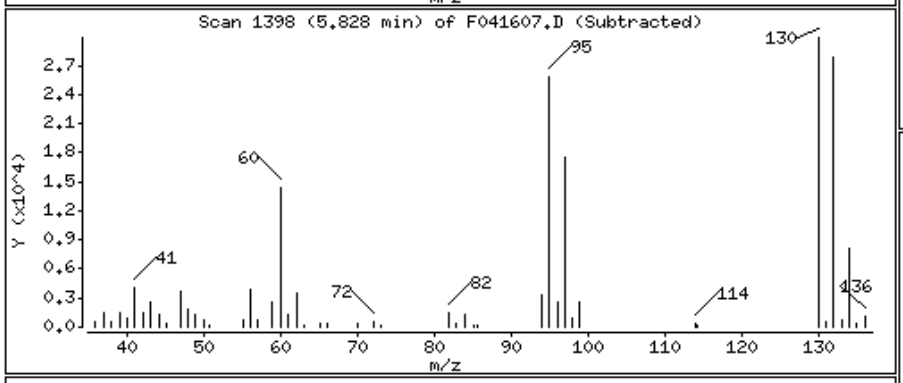
Sample Info: VSTD010;VSTD010;1;6;

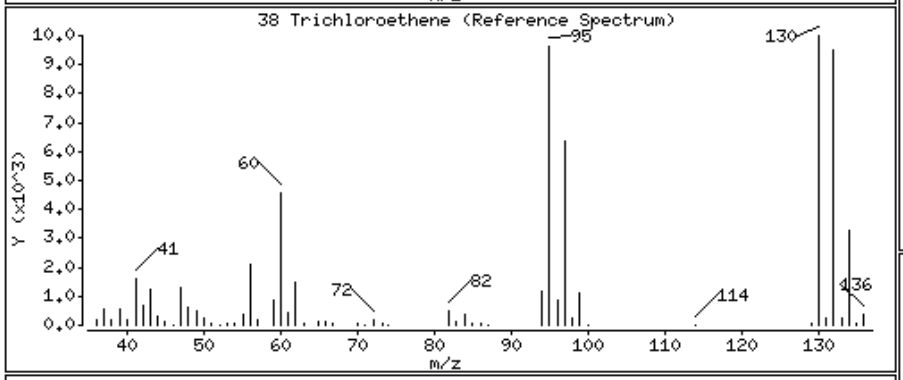
Purge Volume: 5.0 Operator: FT

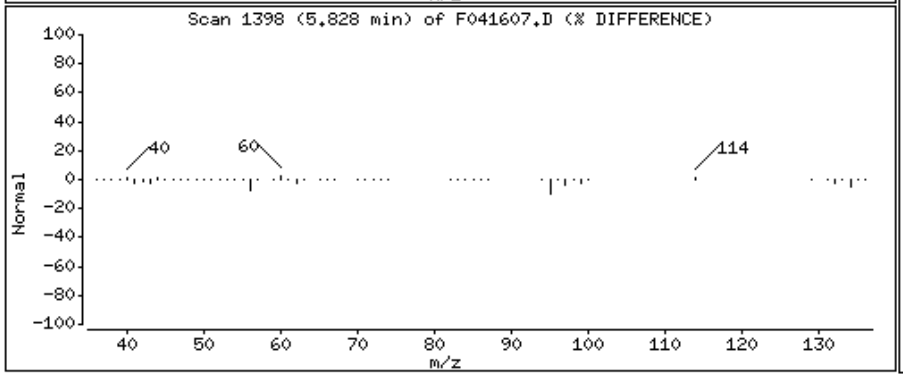
Column phase: DB624 Column diameter: 0.18

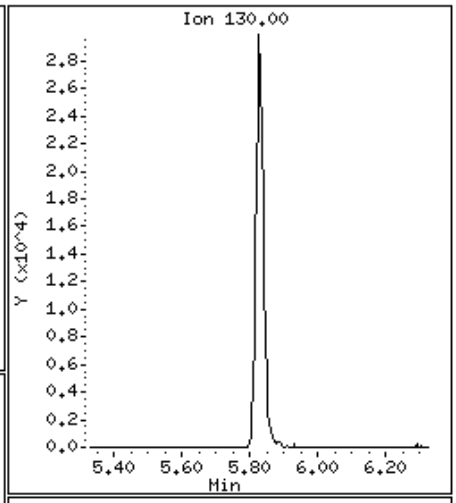
38 Trichloroethene Concentration: 9.55 ug/l

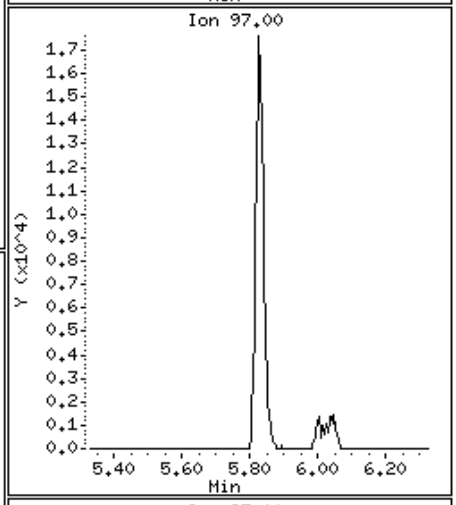


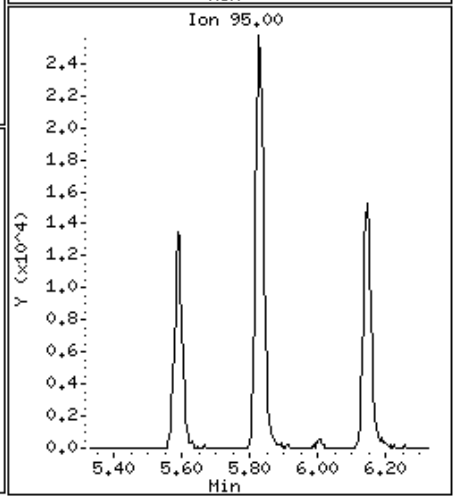












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 36

Date : 16-APR-2024 13:26

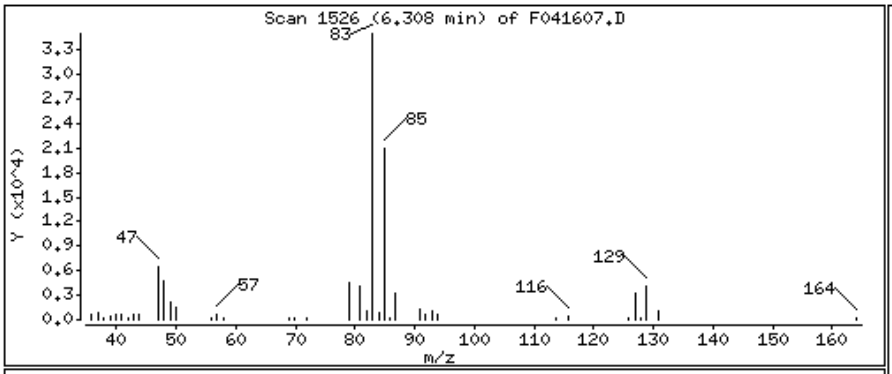
Client ID: VSTD010 Instrument: voa11.i

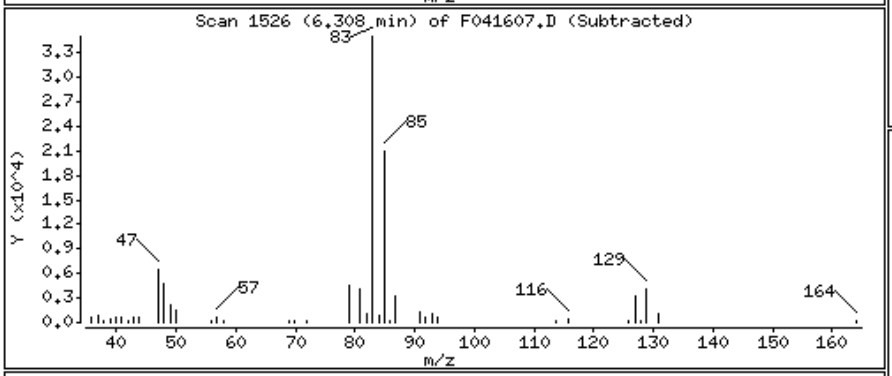
Sample Info: VSTD010;VSTD010;1;6;

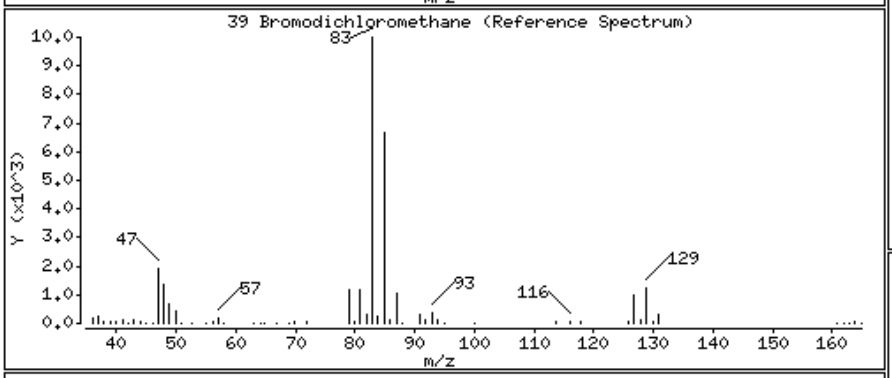
Purge Volume: 5.0 Operator: FT

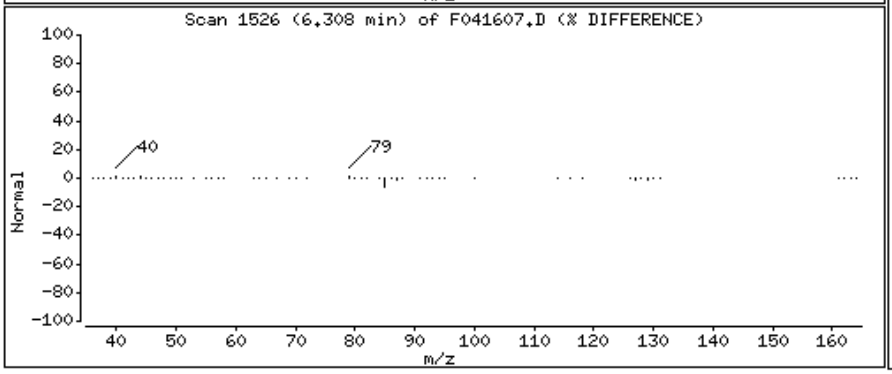
Column phase: DB624 Column diameter: 0.18

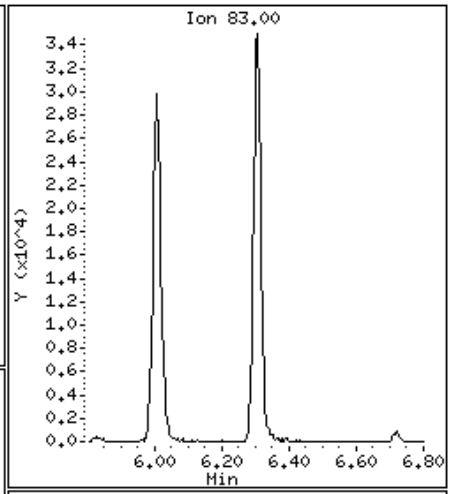
39 Bromodichloromethane Concentration: 9.70 ug/l

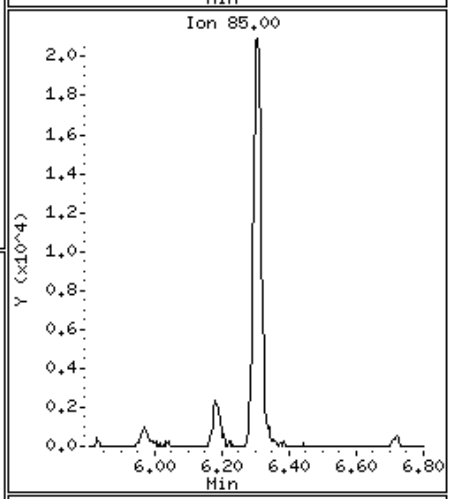


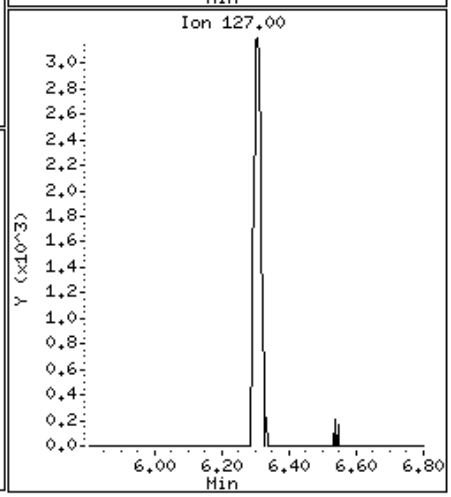












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 37

Date : 16-APR-2024 13:26

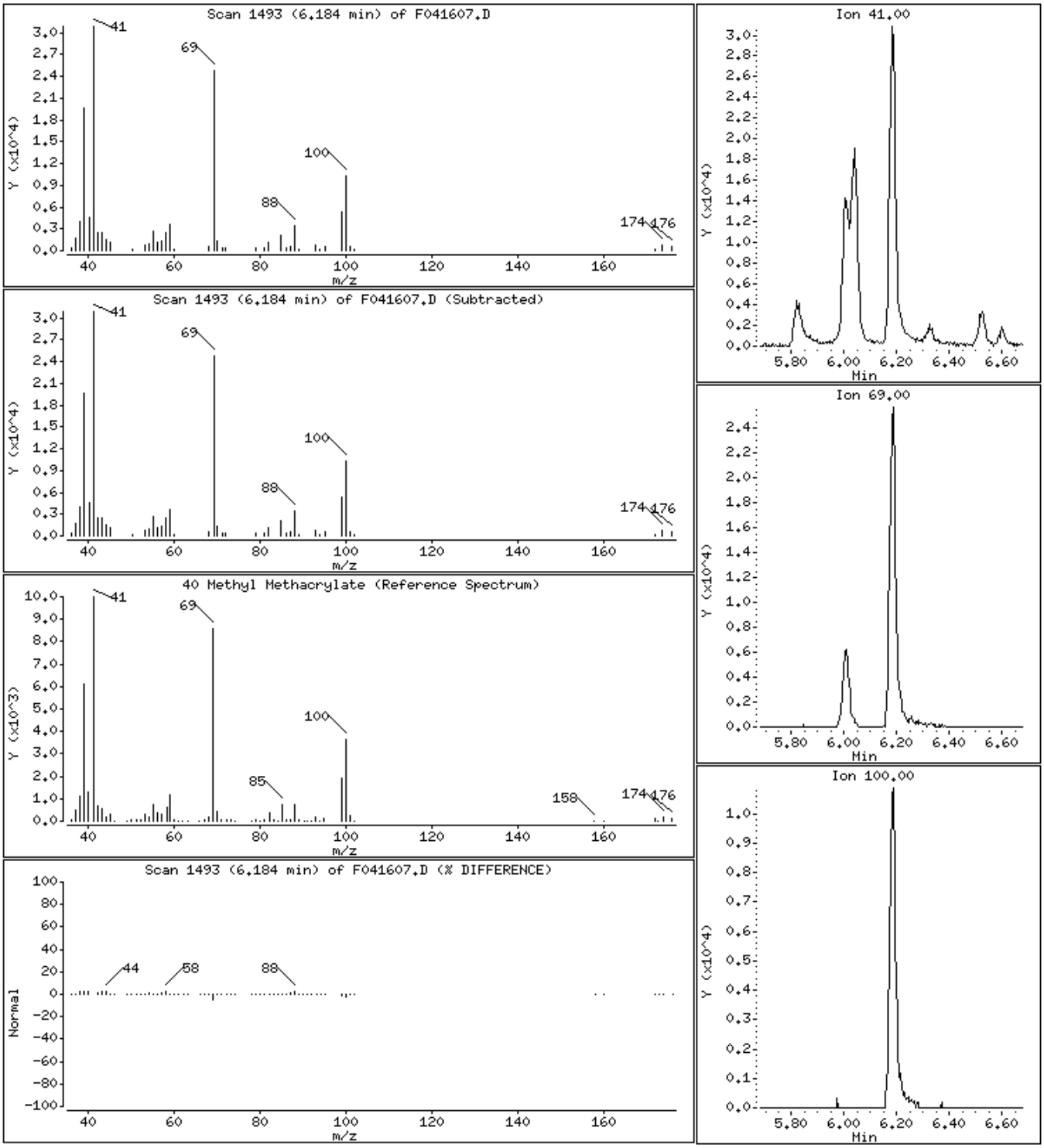
Client ID: VSTD010 Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0 Operator: FT

Column phase: DB624 Column diameter: 0.18

40 Methyl Methacrylate Concentration: 9.23 ug/l



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 38

Date : 16-APR-2024 13:26

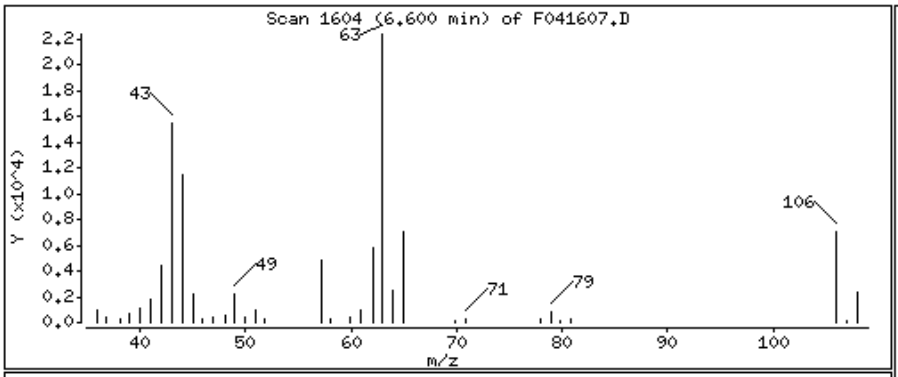
Client ID: VSTD010 Instrument: voa11.i

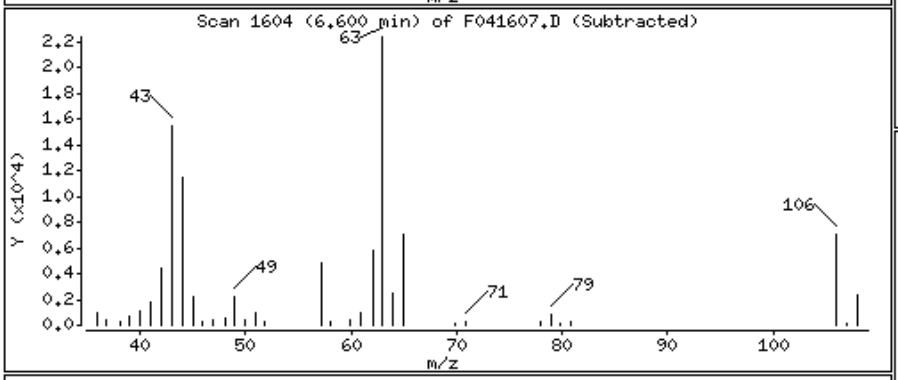
Sample Info: VSTD010;VSTD010;1;6;

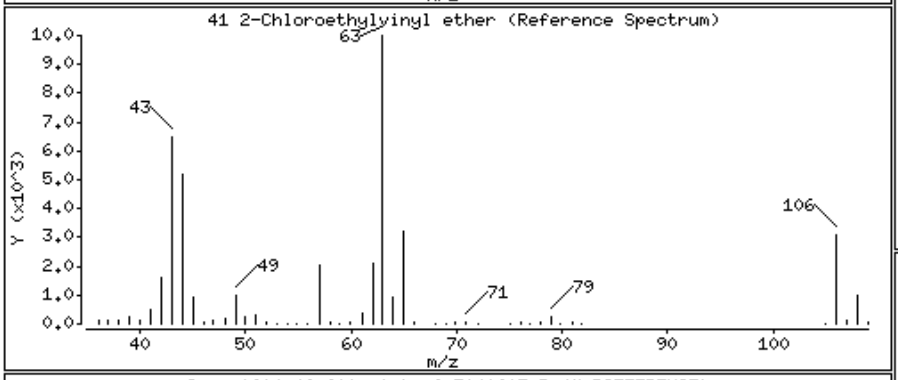
Purge Volume: 5.0 Operator: FT

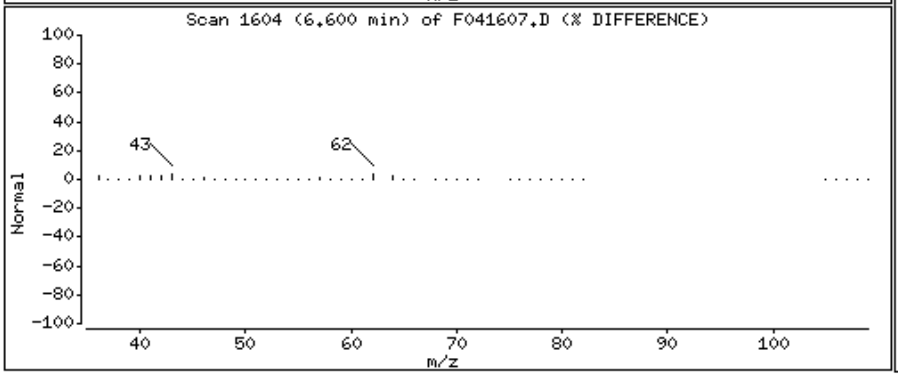
Column phase: DB624 Column diameter: 0.18

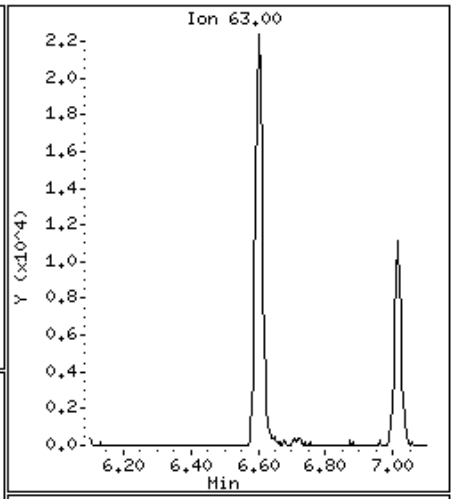
41 2-Chloroethylvinyl ether Concentration: 17.74 ug/l

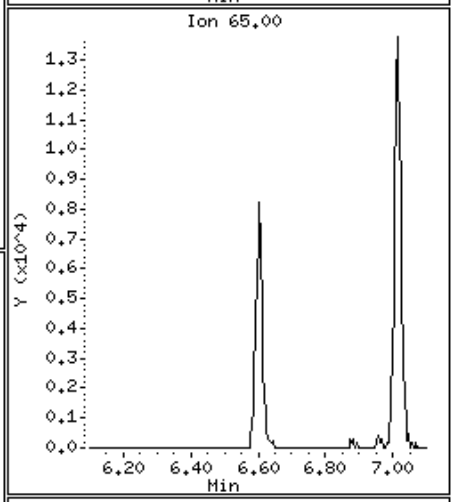


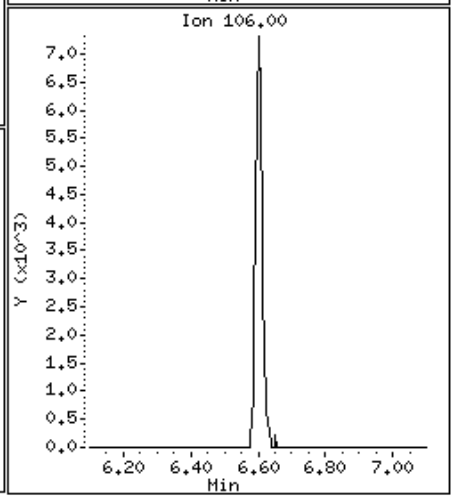












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 39

Date : 16-APR-2024 13:26

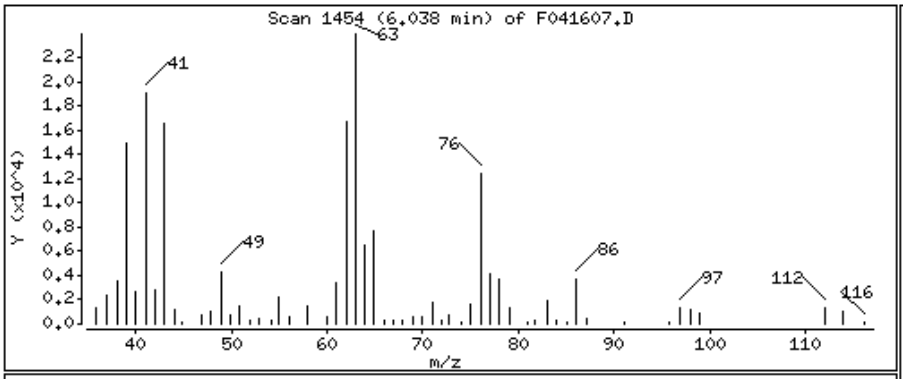
Client ID: VSTD010 Instrument: voa11.i

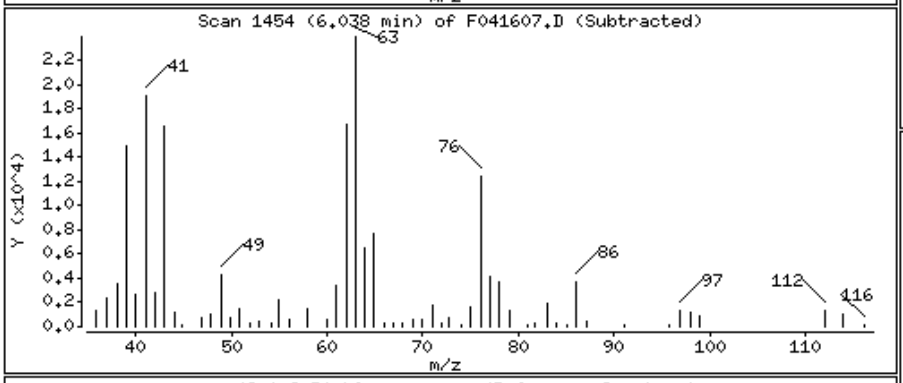
Sample Info: VSTD010;VSTD010;1;6;

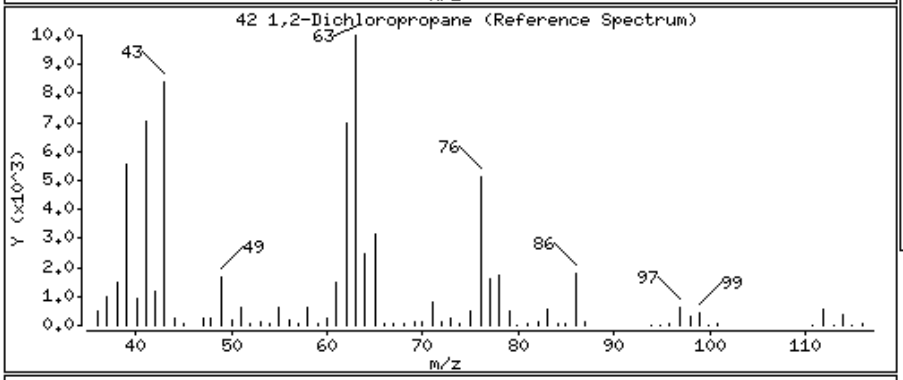
Purge Volume: 5.0 Operator: FT

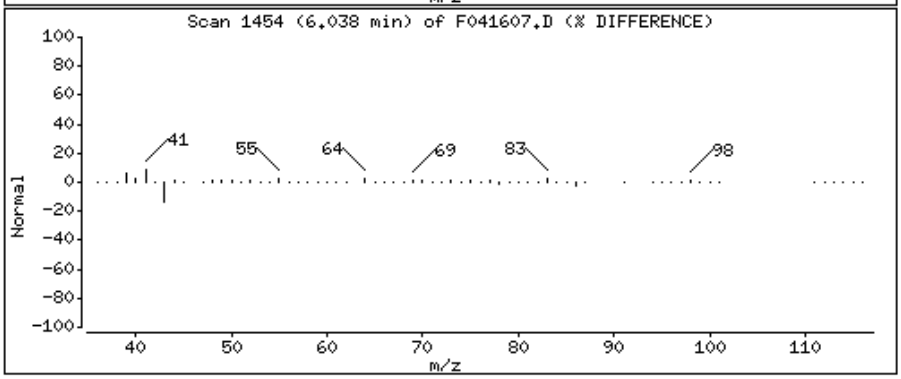
Column phase: DB624 Column diameter: 0.18

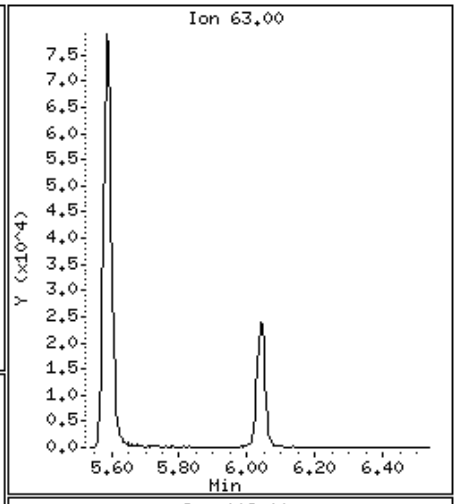
42 1,2-Dichloropropane Concentration: 10.11 ug/l

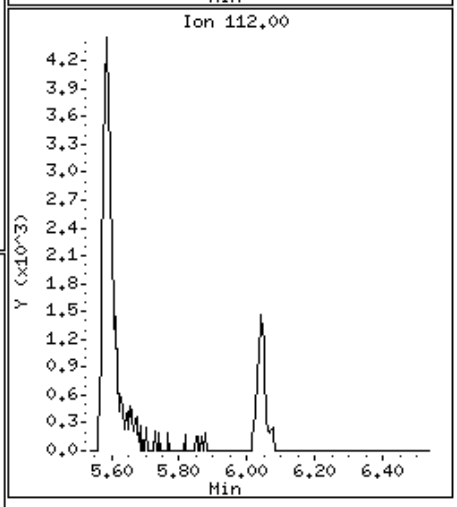












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

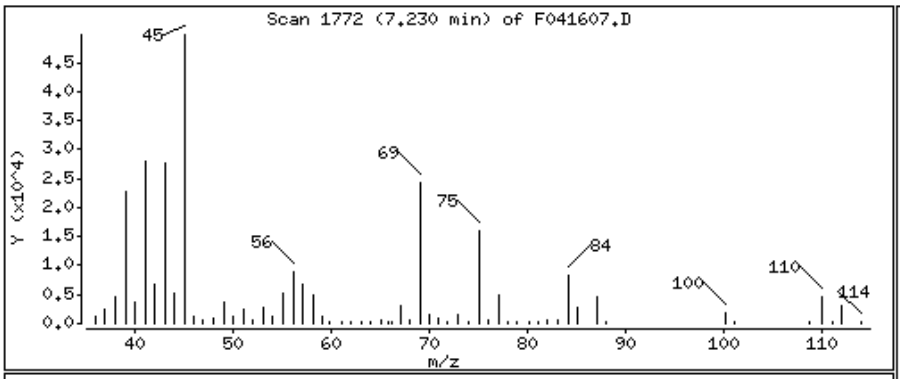
Operator: FT

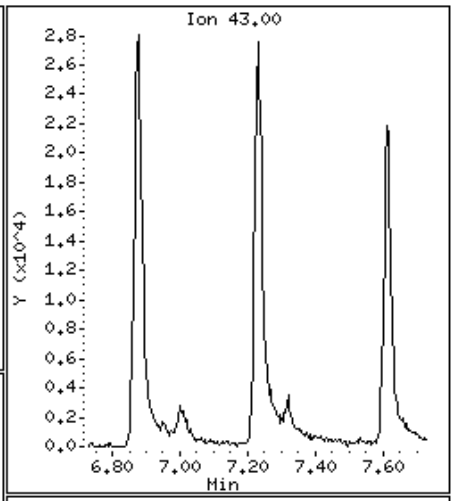
Column phase: DB624

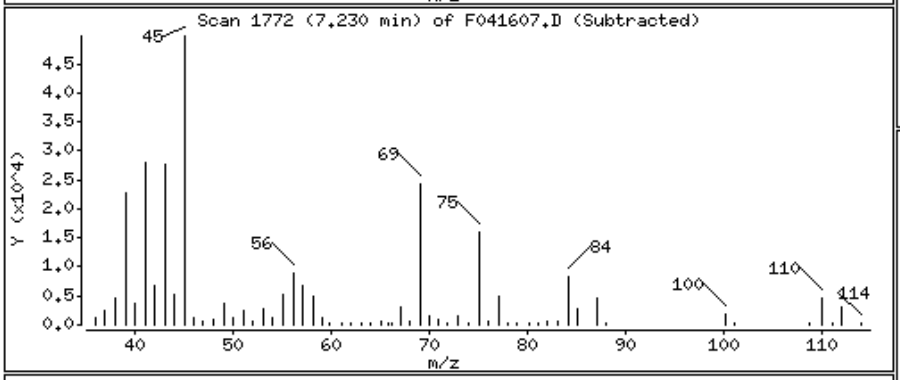
Column diameter: 0.18

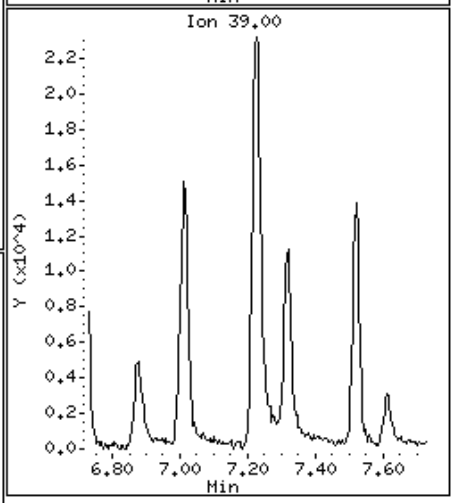
43 2-Nitropropane

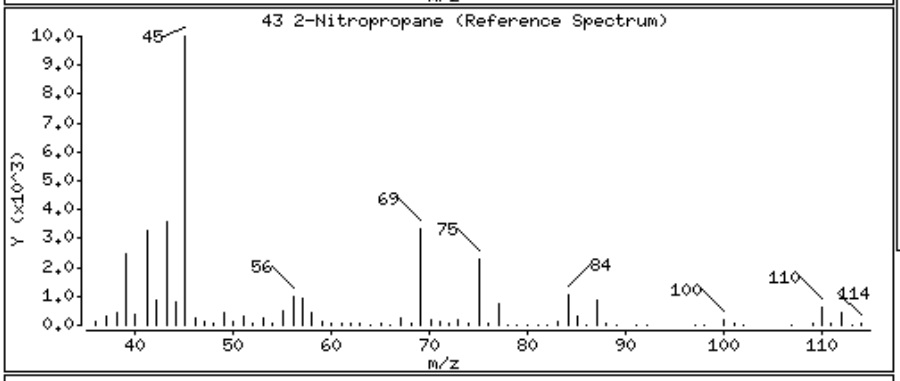
Concentration: 9.91 ug/l

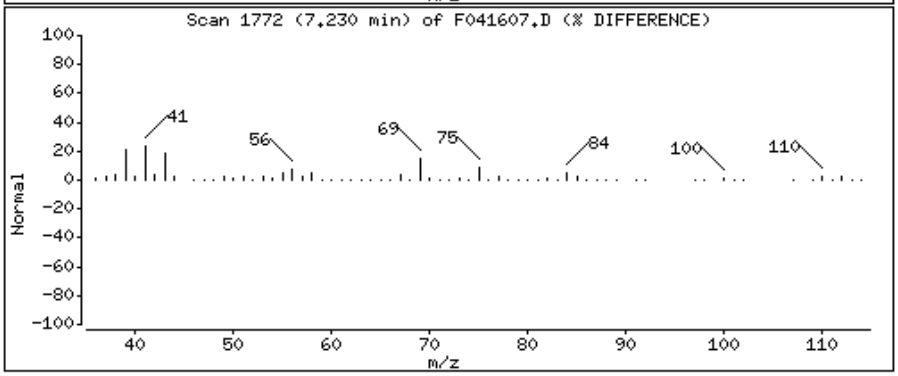












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 41

Date : 16-APR-2024 13:26

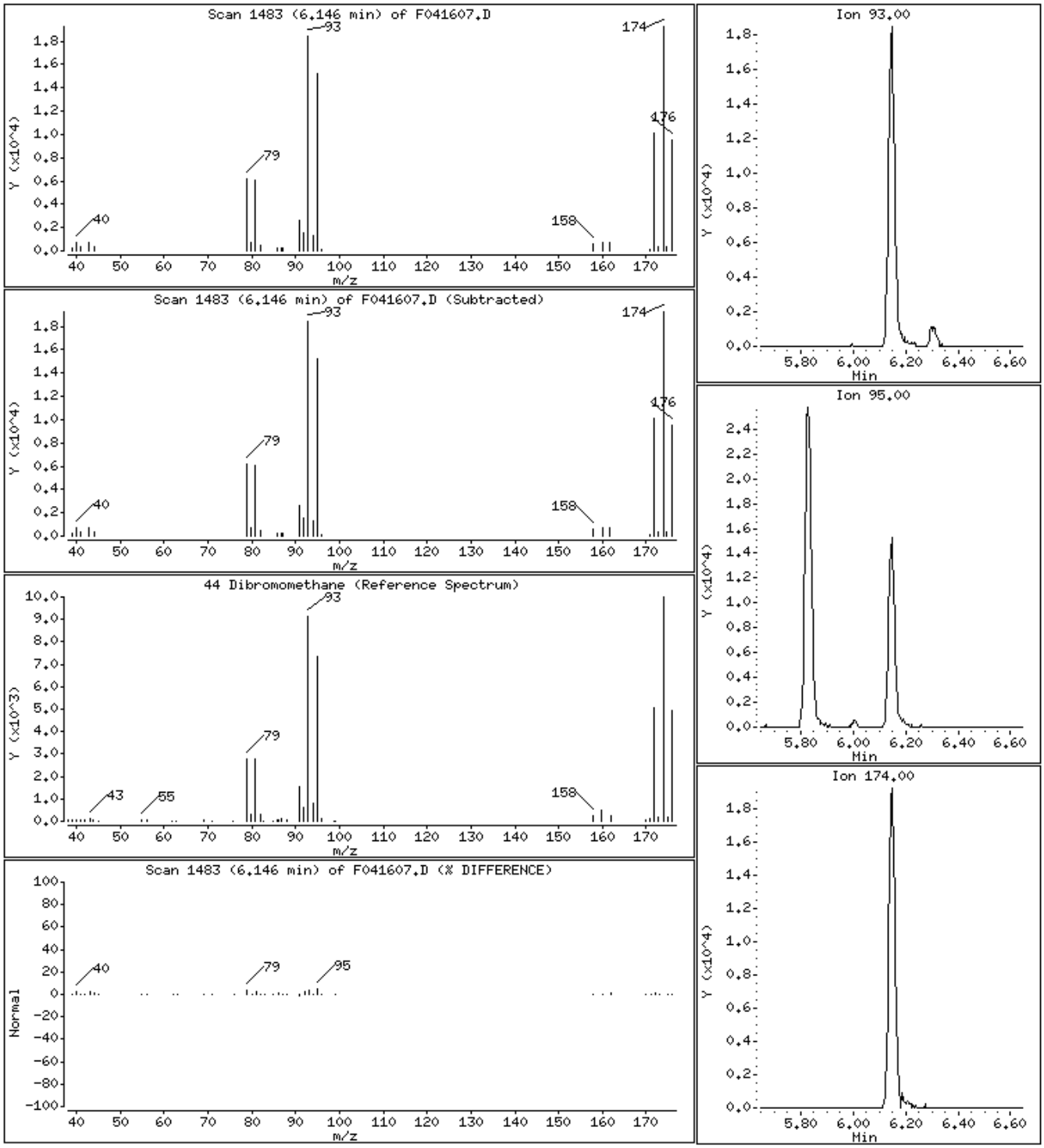
Client ID: VSTD010 Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0 Operator: FT

Column phase: DB624 Column diameter: 0.18

44 Dibromomethane Concentration: 9.99 ug/l



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 42

Date : 16-APR-2024 13:26

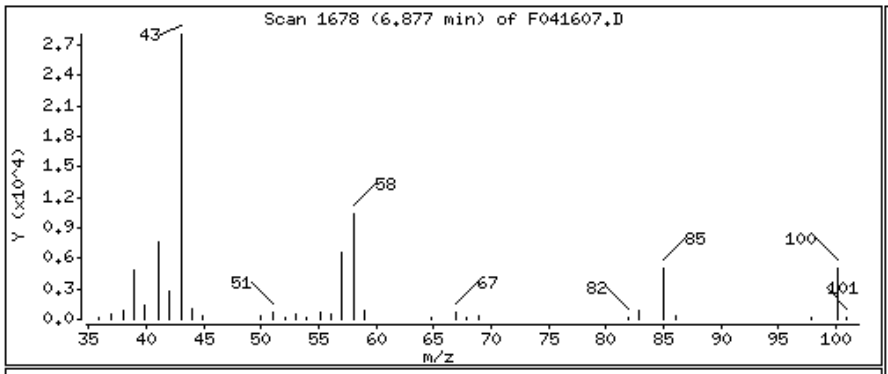
Client ID: VSTD010 Instrument: voa11.i

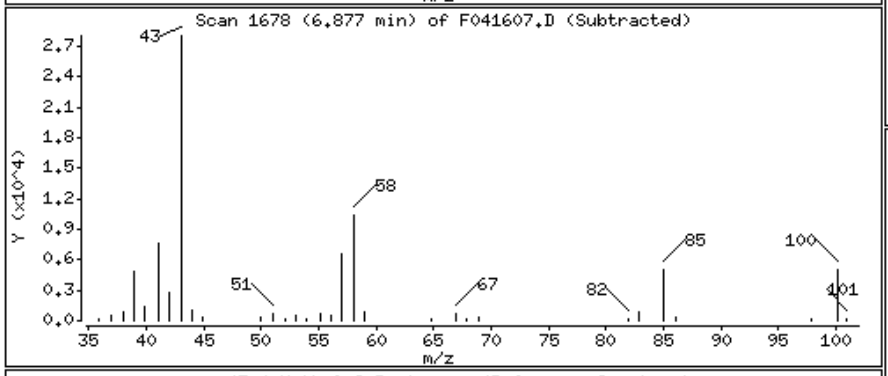
Sample Info: VSTD010;VSTD010;1;6;

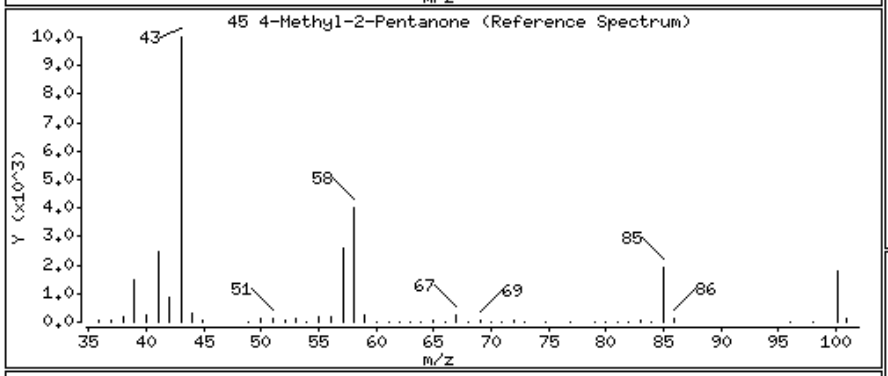
Purge Volume: 5.0 Operator: FT

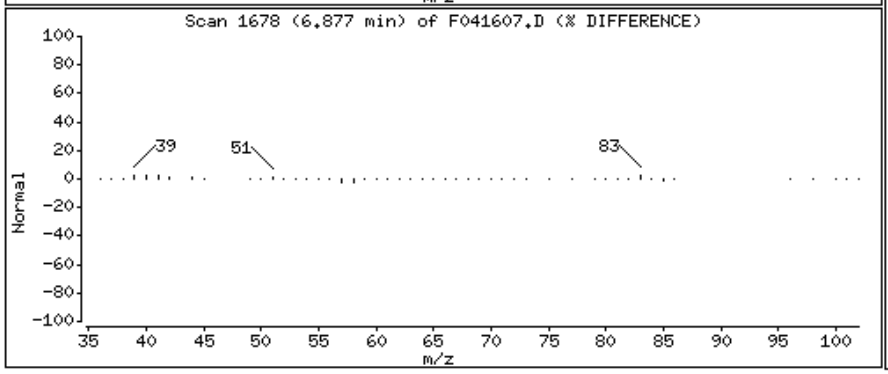
Column phase: DB624 Column diameter: 0.18

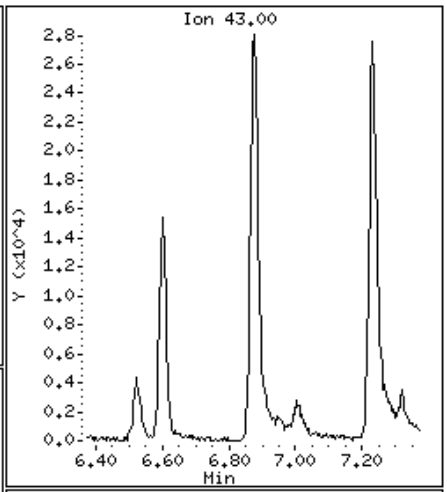
45 4-Methyl-2-Pentanone Concentration: 18.06 ug/l

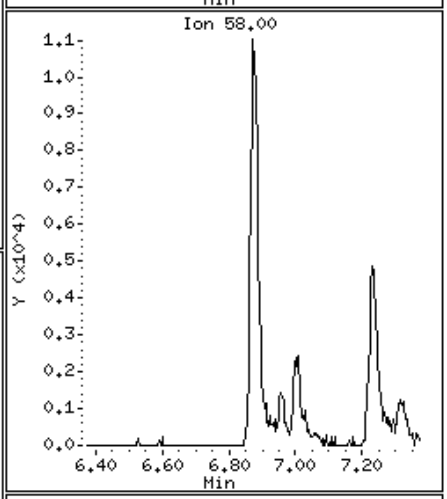


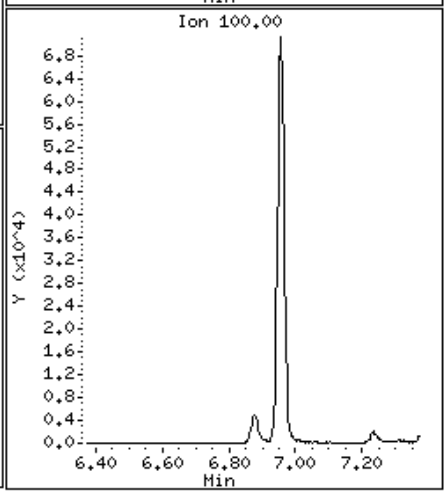












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 43

Date : 16-APR-2024 13:26

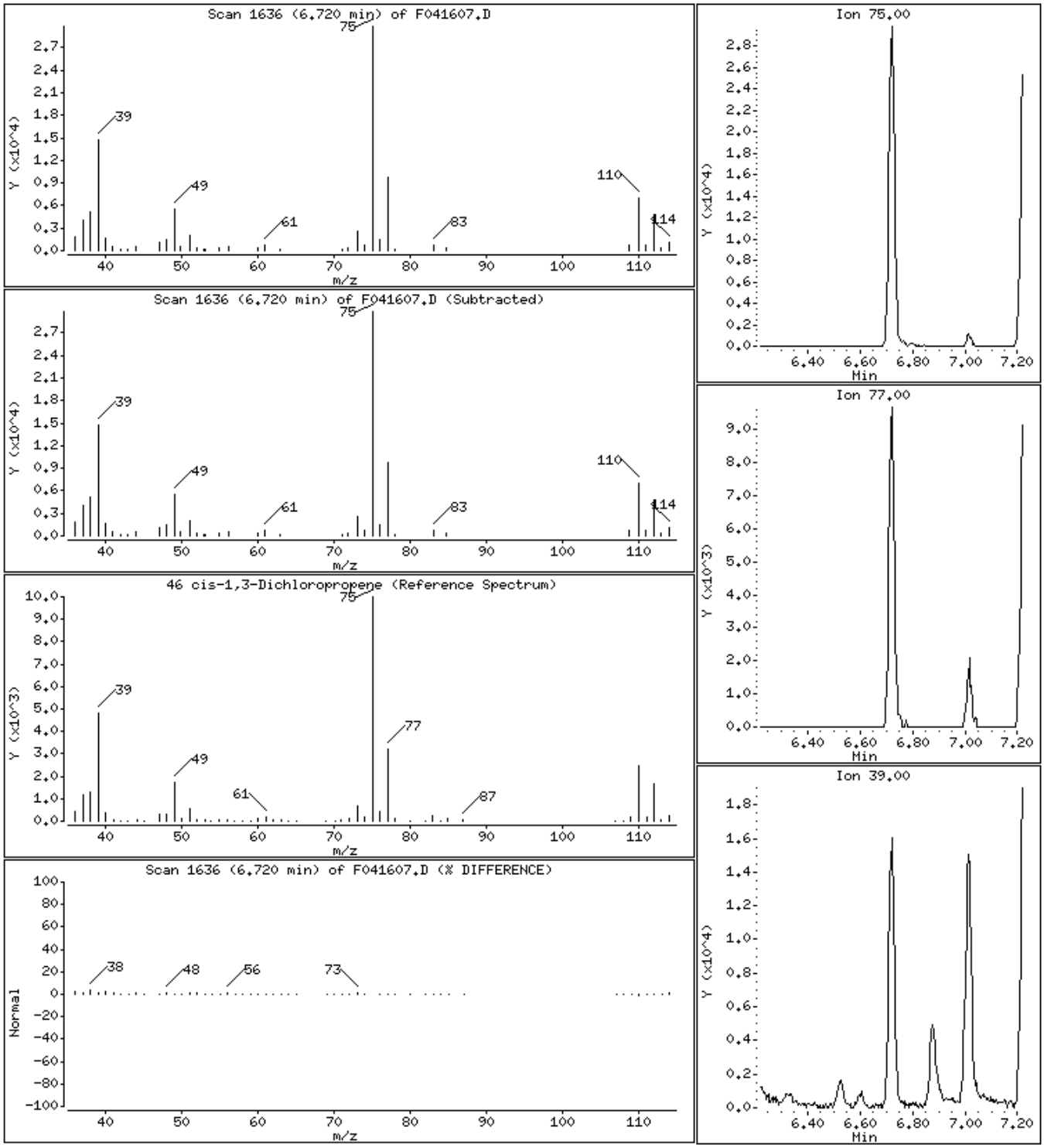
Client ID: VSTD010 Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0 Operator: FT

Column phase: DB624 Column diameter: 0.18

46 cis-1,3-Dichloropropene Concentration: 8.95 ug/l



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

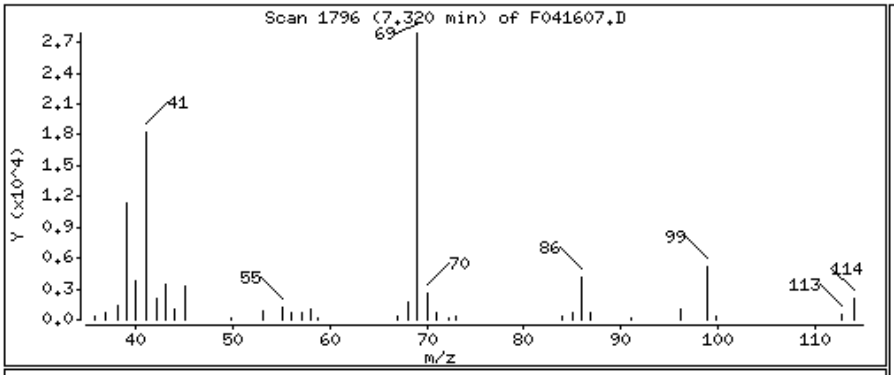
Operator: FT

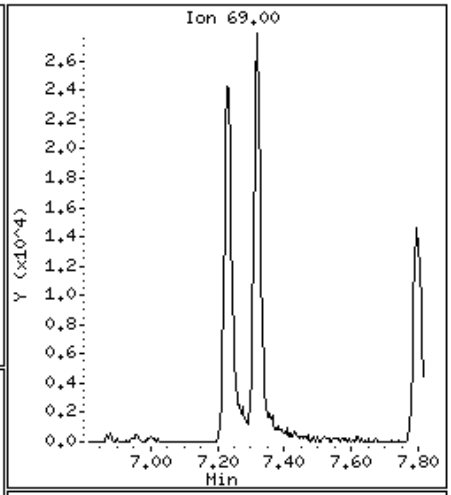
Column phase: DB624

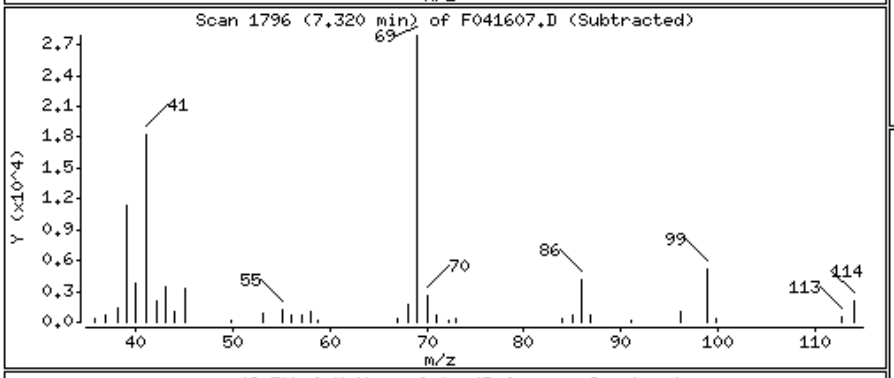
Column diameter: 0.18

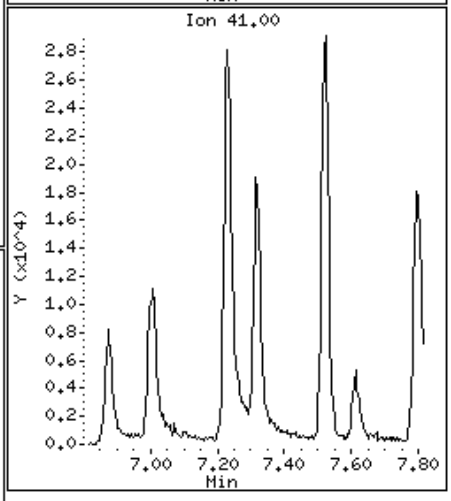
49 Ethyl Methacrylate

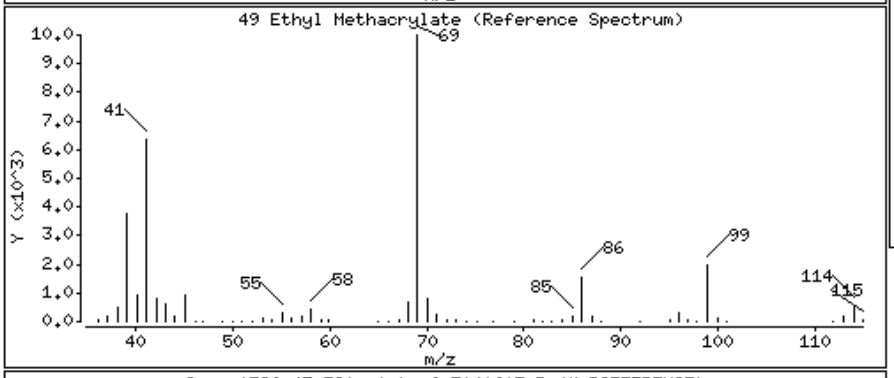
Concentration: 8.74 ug/l

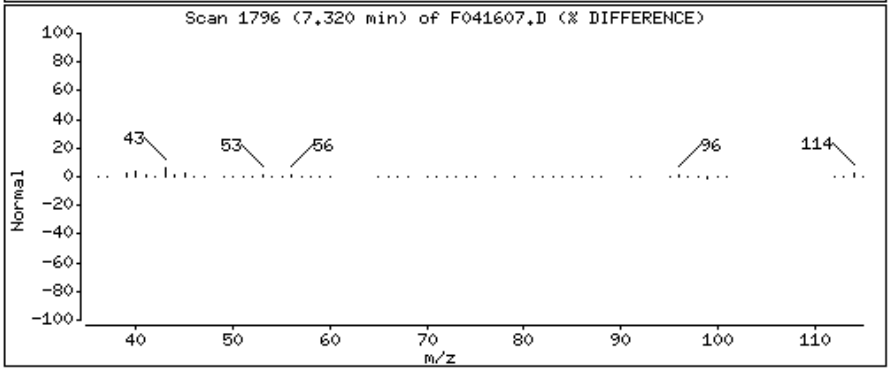












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 45

Date : 16-APR-2024 13:26

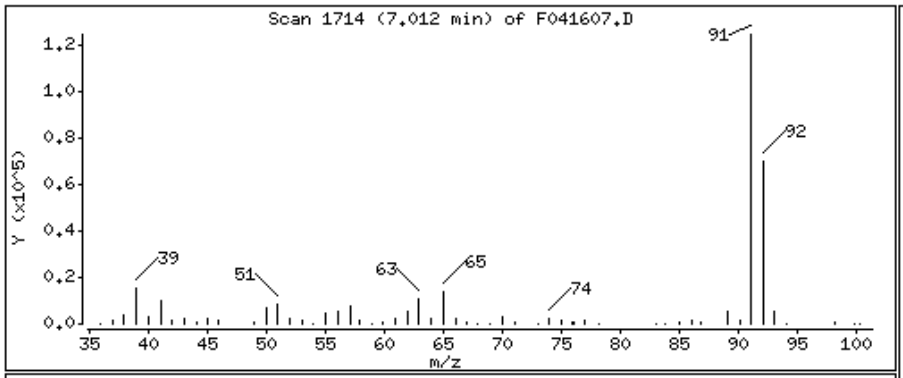
Client ID: VSTD010 Instrument: voa11.i

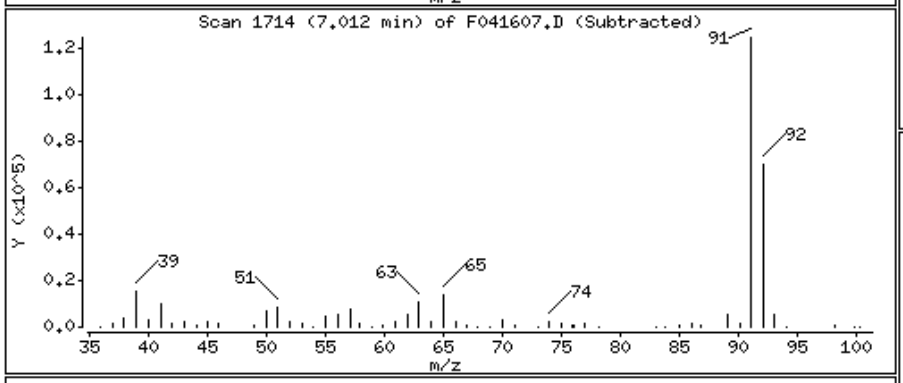
Sample Info: VSTD010;VSTD010;1;6;

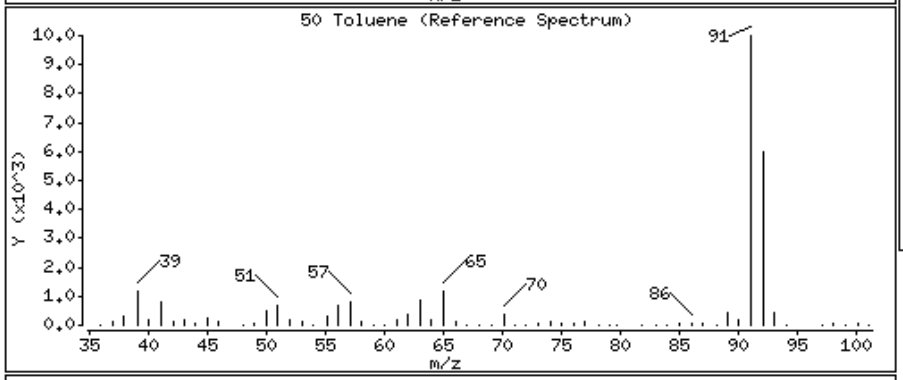
Purge Volume: 5.0 Operator: FT

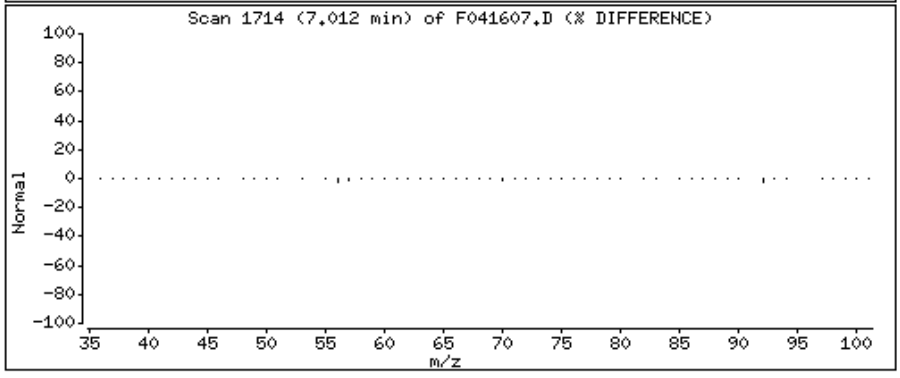
Column phase: DB624 Column diameter: 0.18

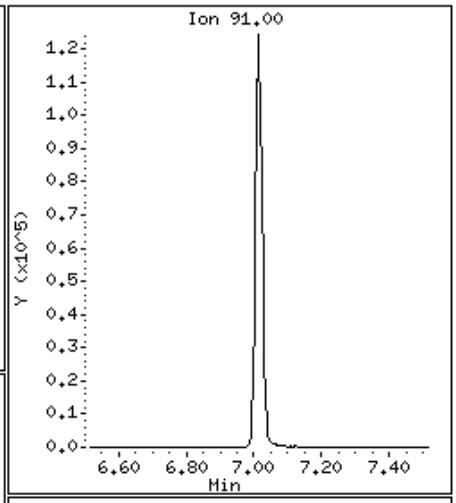
50 Toluene Concentration: 10.39 ug/l

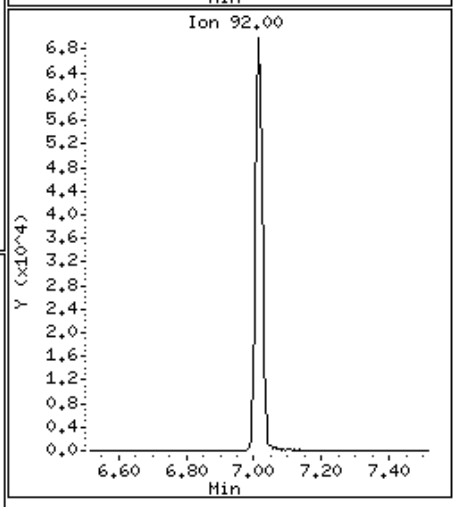












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

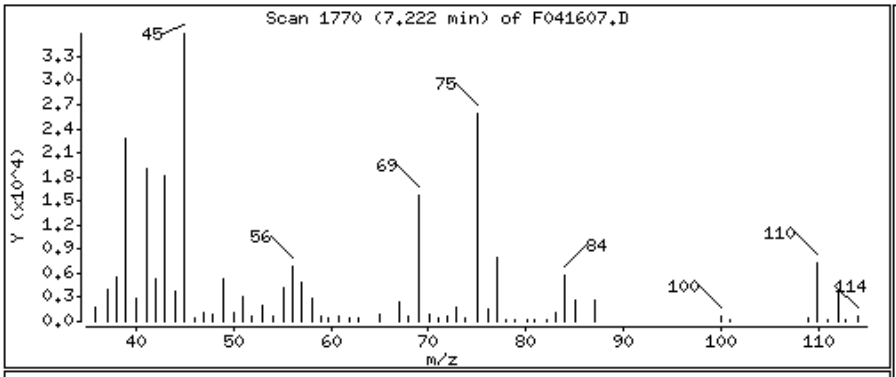
Operator: FT

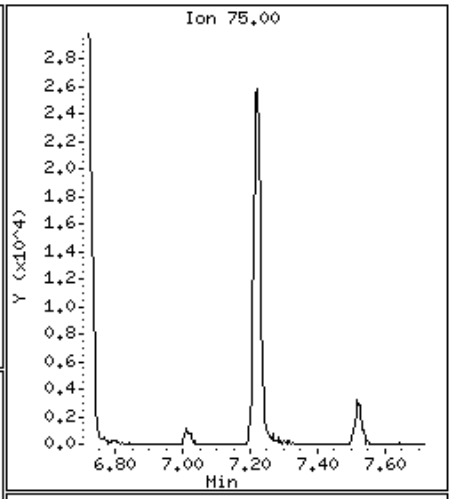
Column phase: DB624

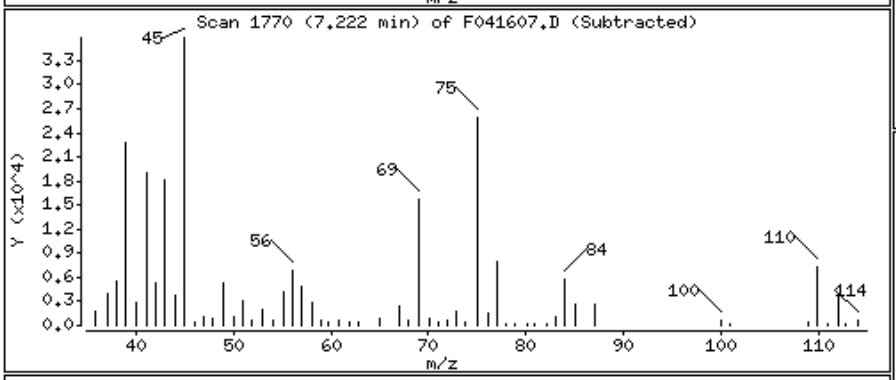
Column diameter: 0.18

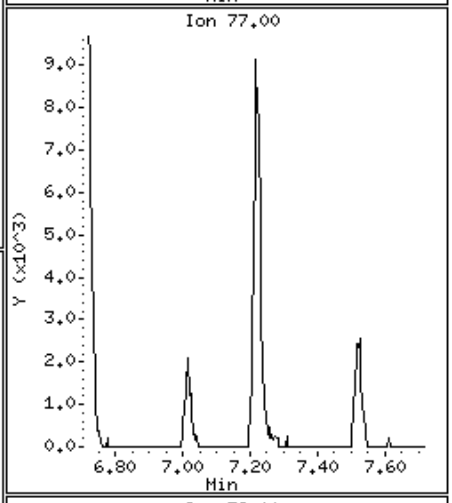
51 trans-1,3-Dichloropropene

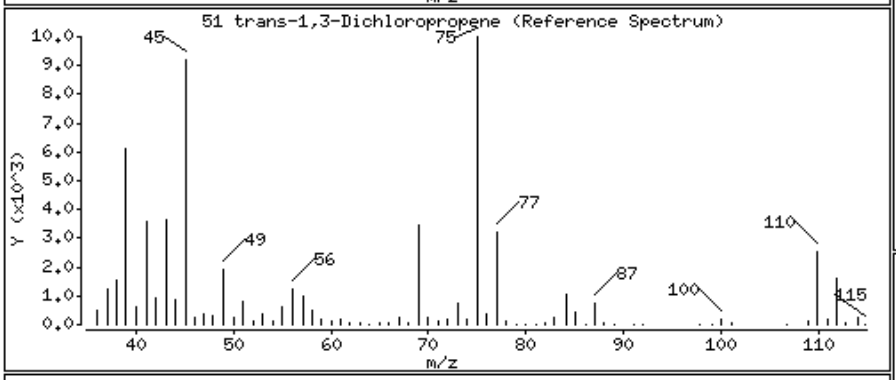
Concentration: 8.28 ug/l

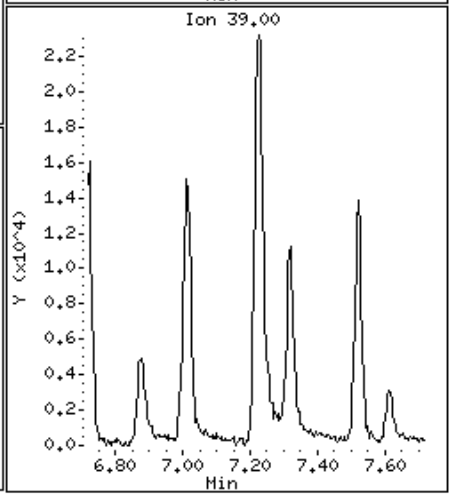


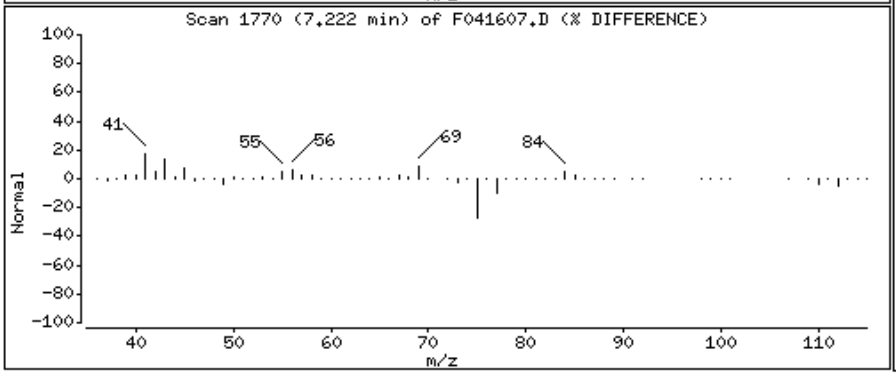












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 47

Date : 16-APR-2024 13:26

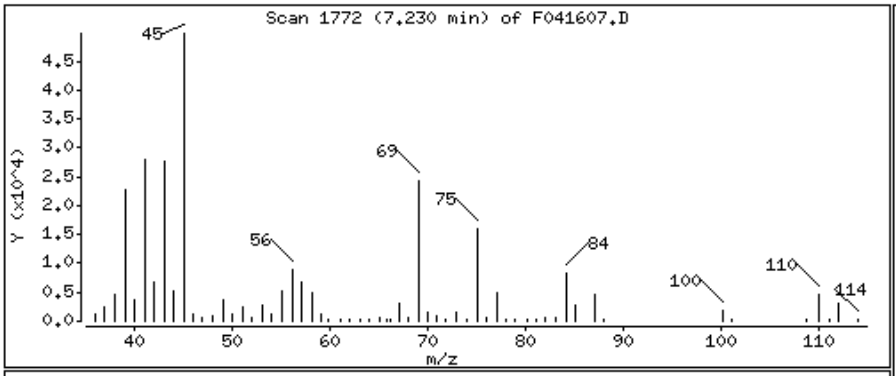
Client ID: VSTD010 Instrument: voa11.i

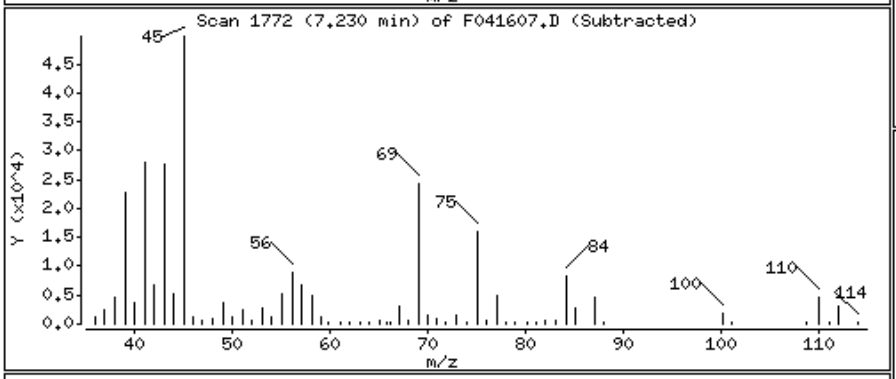
Sample Info: VSTD010;VSTD010;1;6;

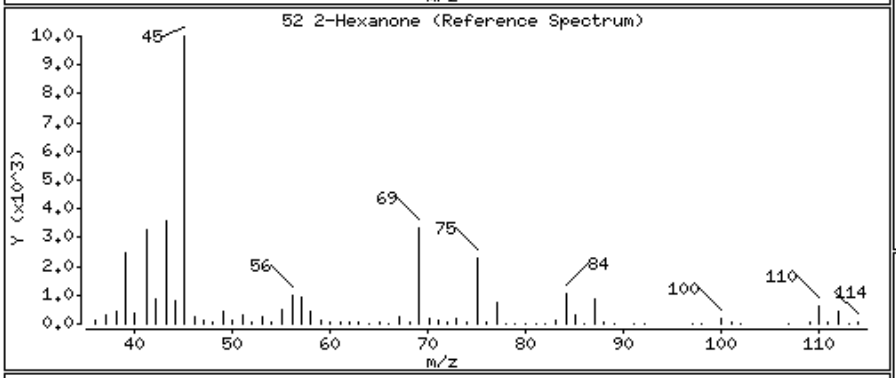
Purge Volume: 5.0 Operator: FT

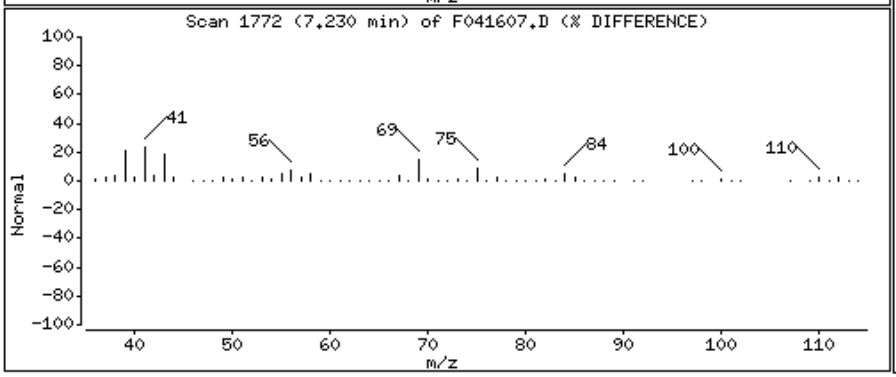
Column phase: DB624 Column diameter: 0.18

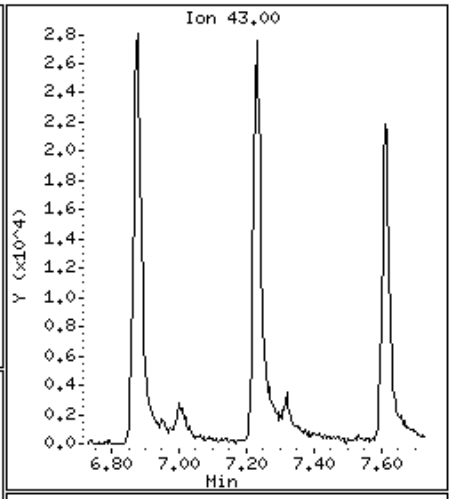
52 2-Hexanone Concentration: 21.96 ug/l

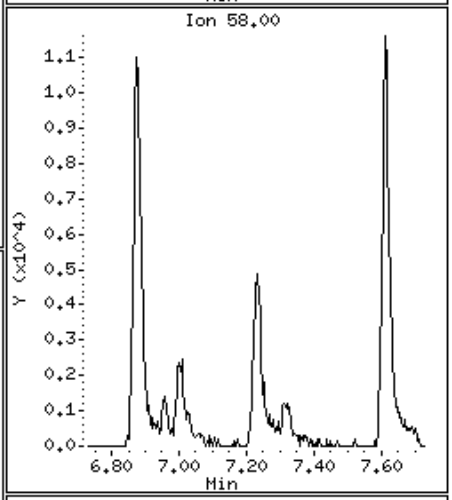


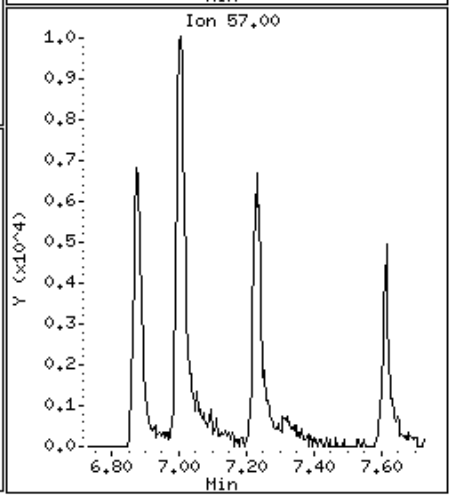












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 48

Date : 16-APR-2024 13:26

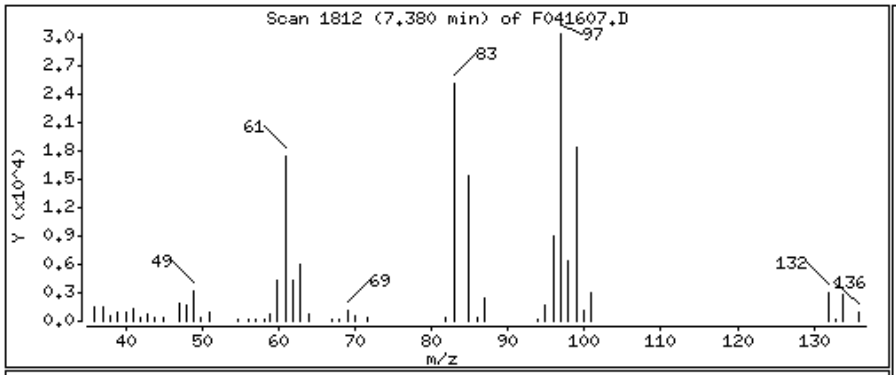
Client ID: VSTD010 Instrument: voa11.i

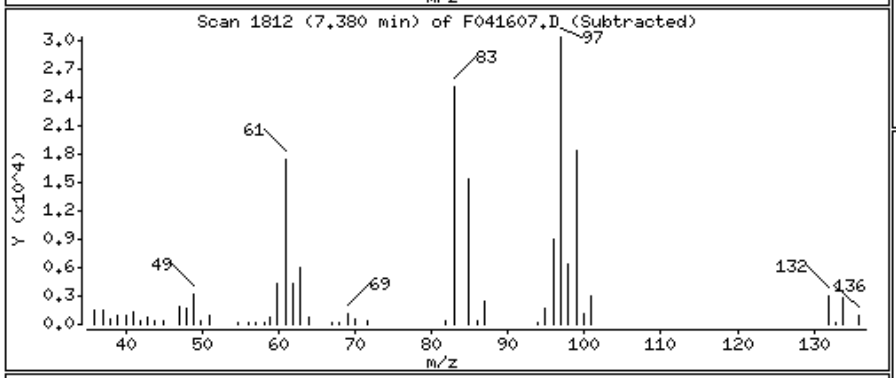
Sample Info: VSTD010;VSTD010;1;6;

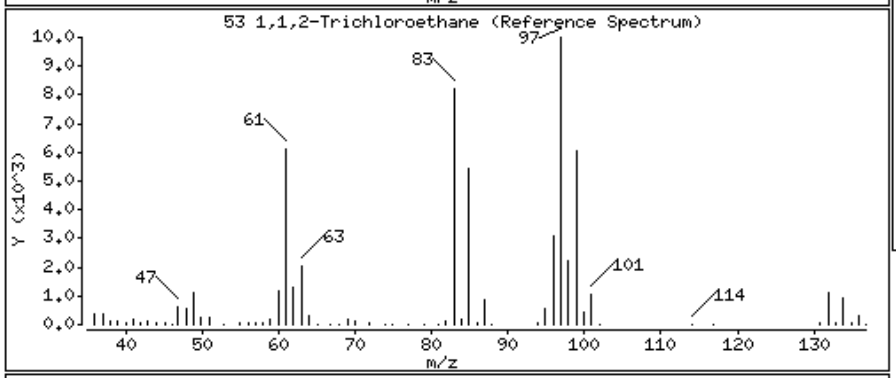
Purge Volume: 5.0 Operator: FT

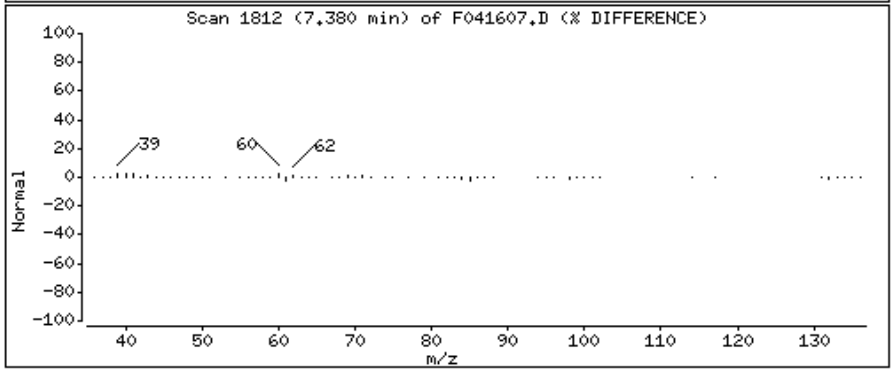
Column phase: DB624 Column diameter: 0.18

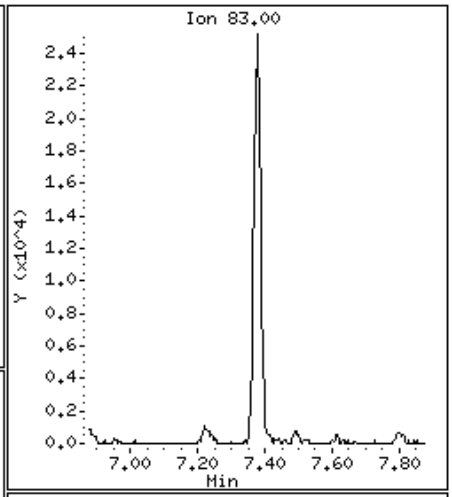
53 1,1,2-Trichloroethane Concentration: 10.47 ug/l

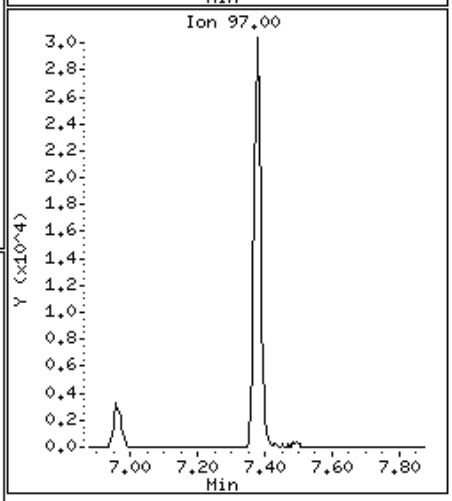












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 49

Date : 16-APR-2024 13:26

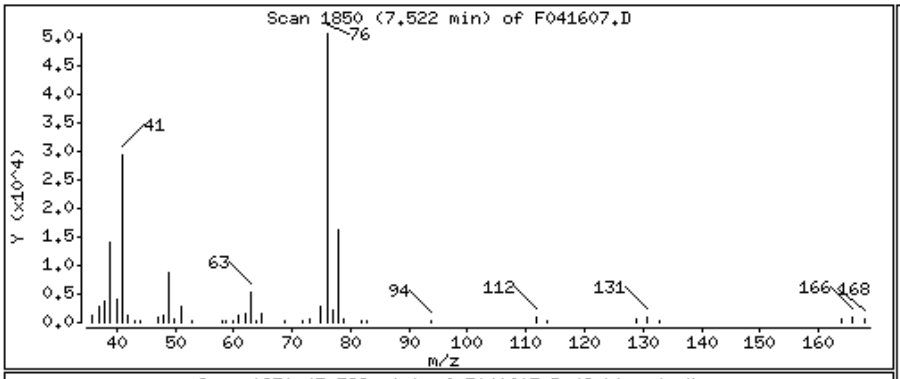
Client ID: VSTD010 Instrument: voa11.i

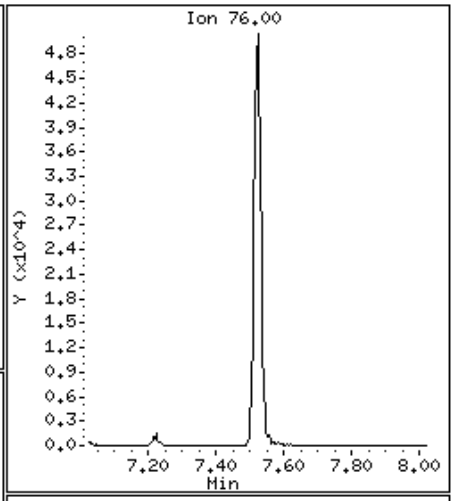
Sample Info: VSTD010;VSTD010;1;6;

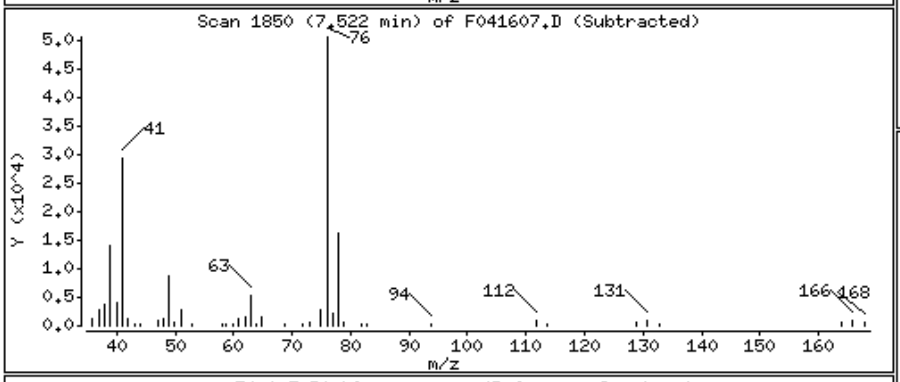
Purge Volume: 5.0 Operator: FT

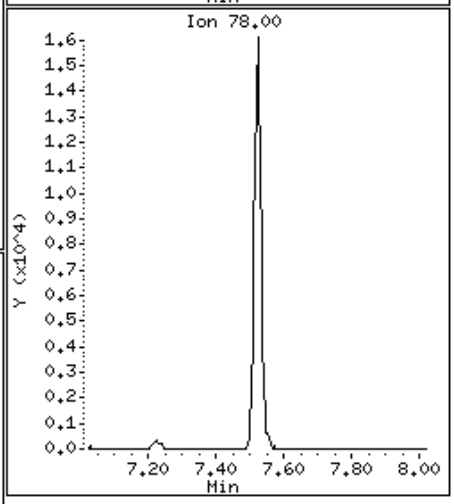
Column phase: DB624 Column diameter: 0.18

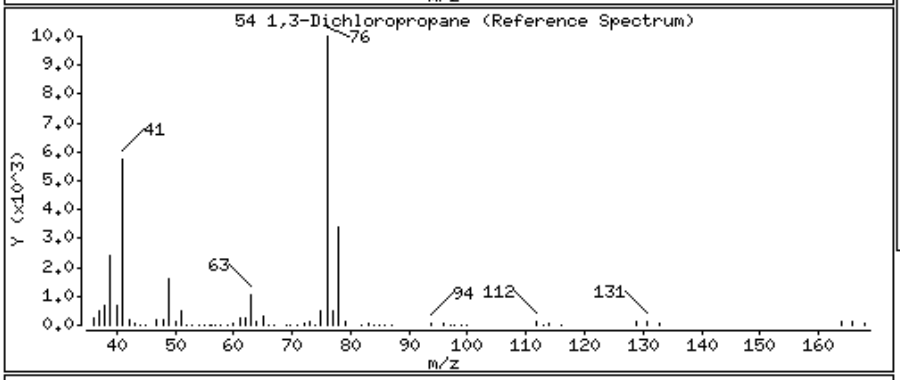
54 1,3-Dichloropropane Concentration: 10.44 ug/l

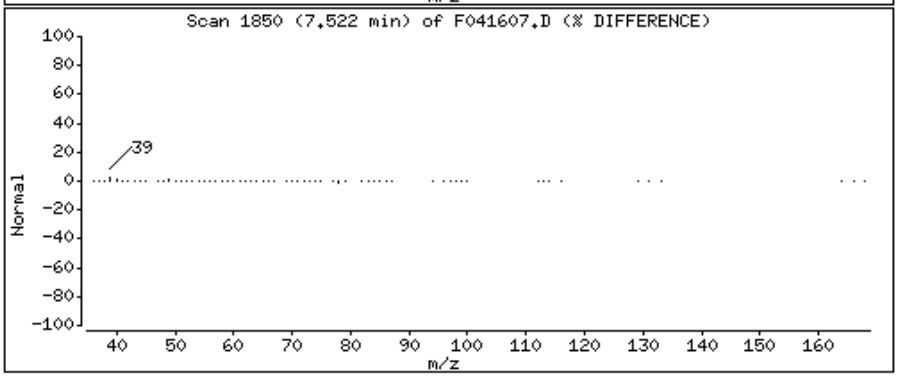












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 50

Date : 16-APR-2024 13:26

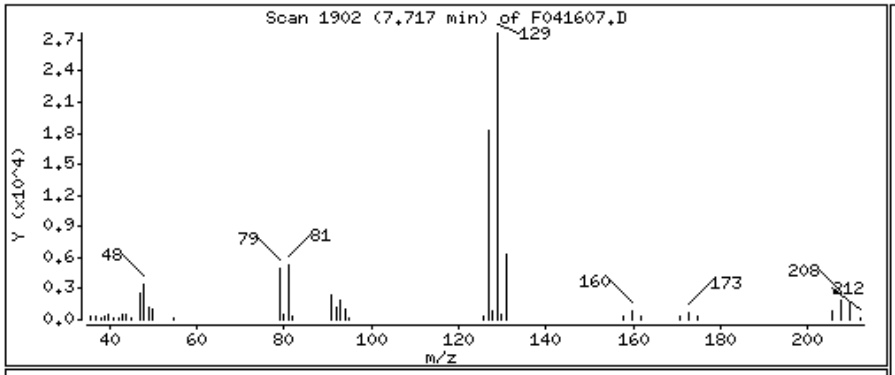
Client ID: VSTD010 Instrument: voa11.i

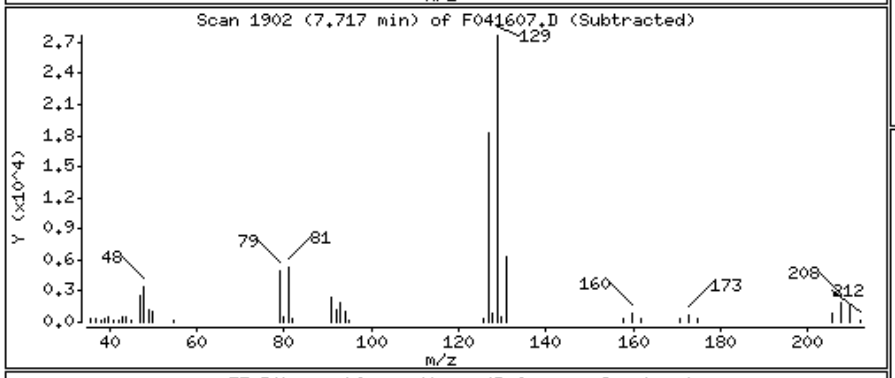
Sample Info: VSTD010;VSTD010;1;6;

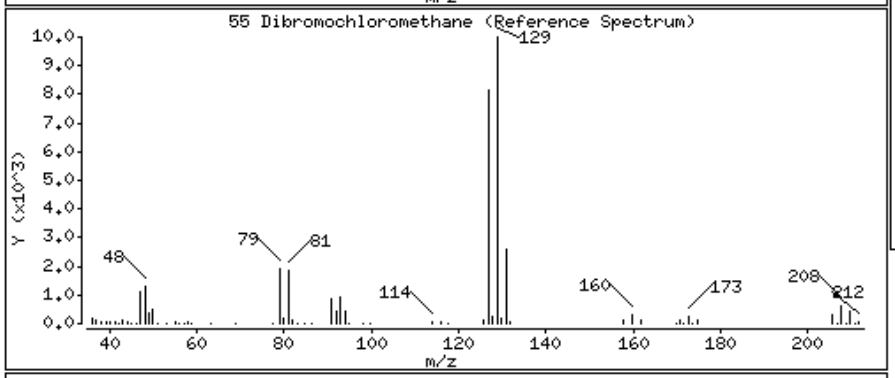
Purge Volume: 5.0 Operator: FT

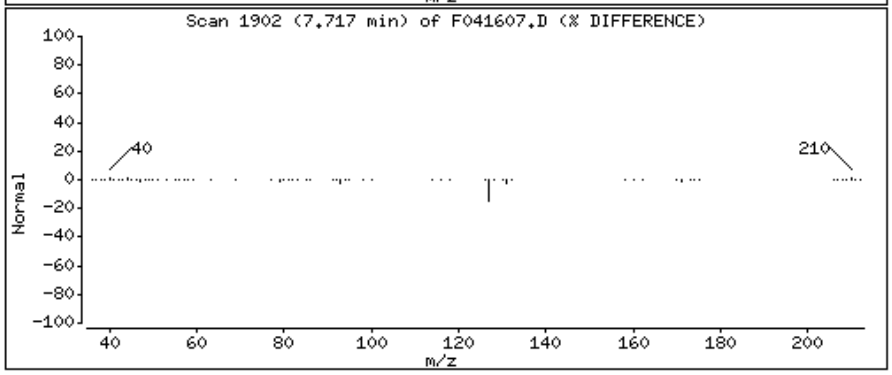
Column phase: DB624 Column diameter: 0.18

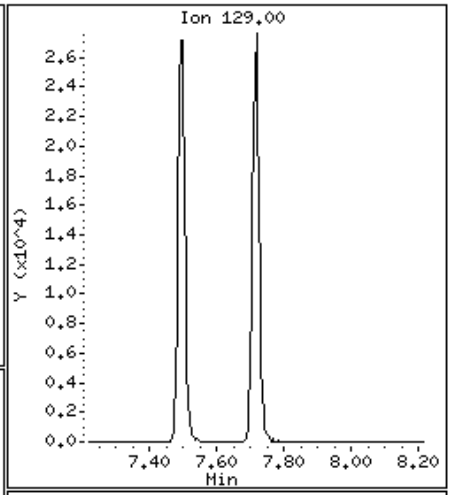
55 Dibromochloromethane Concentration: 10.25 ug/l

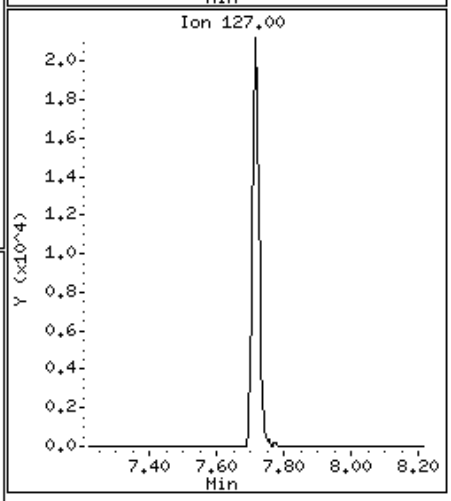












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 51

Date : 16-APR-2024 13:26

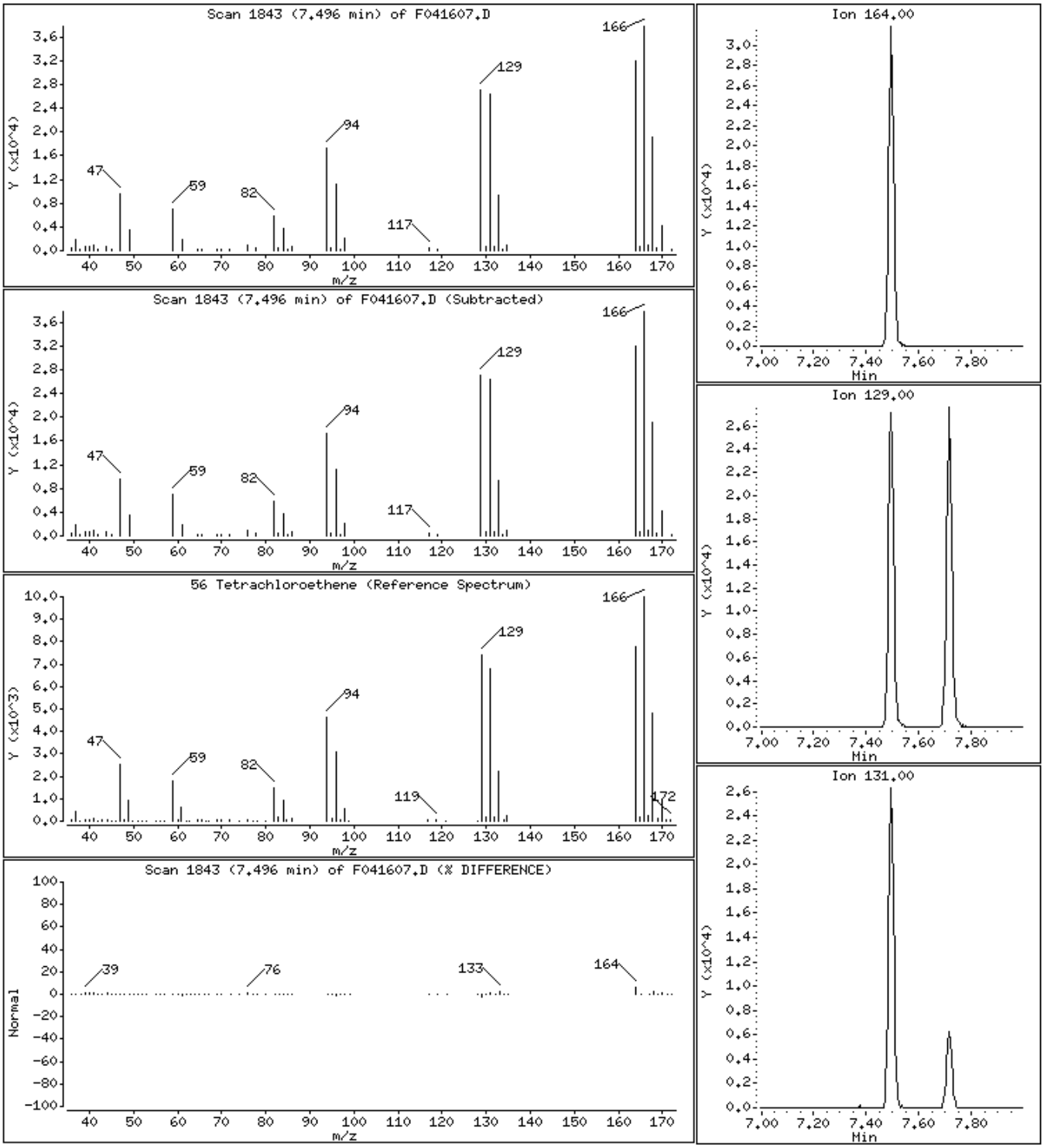
Client ID: VSTD010 Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0 Operator: FT

Column phase: DB624 Column diameter: 0.18

56 Tetrachloroethene Concentration: 10.54 ug/l



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 52

Date : 16-APR-2024 13:26

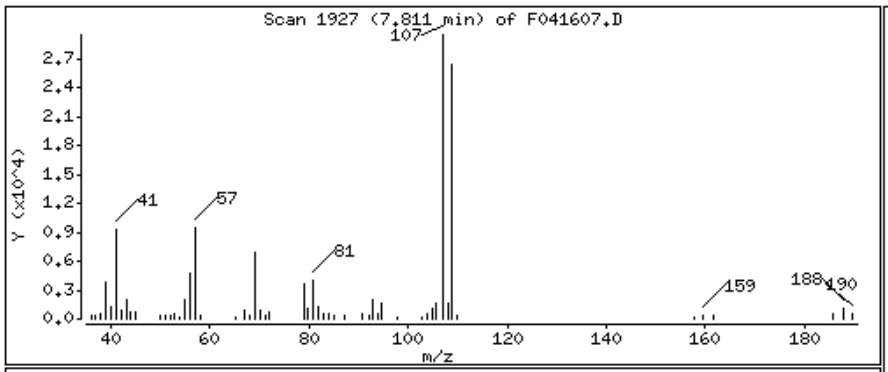
Client ID: VSTD010 Instrument: voa11.i

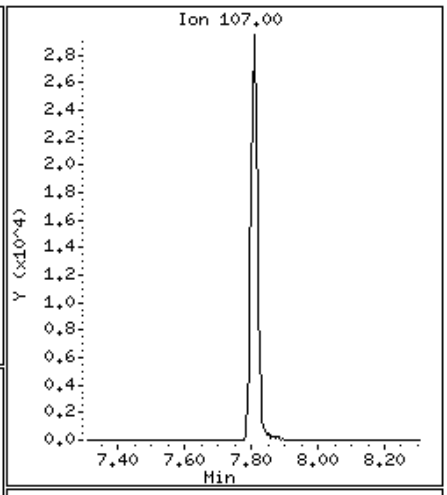
Sample Info: VSTD010;VSTD010;1;6;

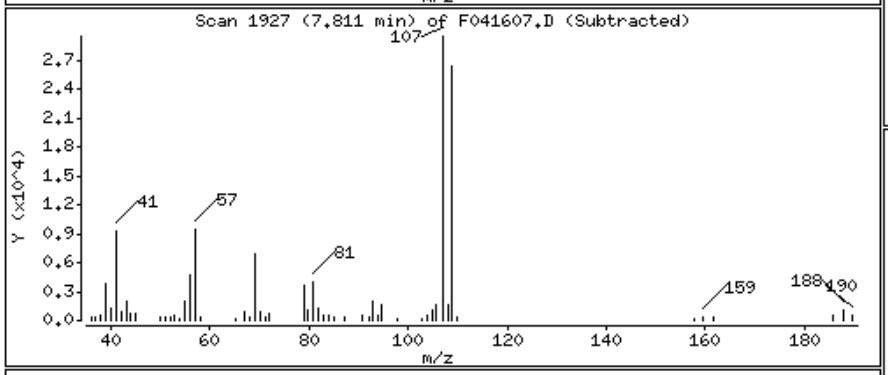
Purge Volume: 5.0 Operator: FT

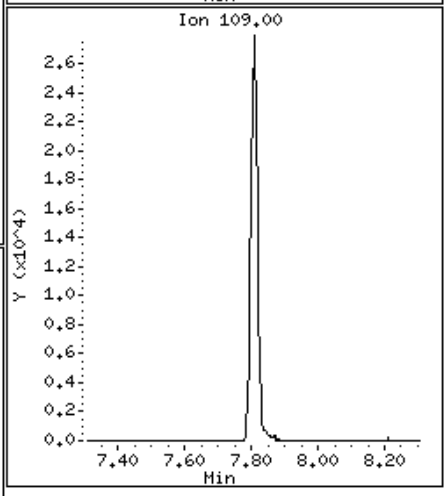
Column phase: DB624 Column diameter: 0.18

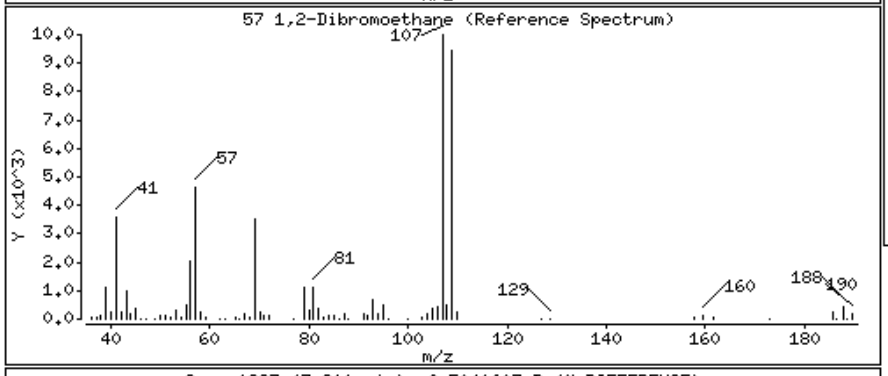
57 1,2-Dibromoethane Concentration: 10.00 ug/l

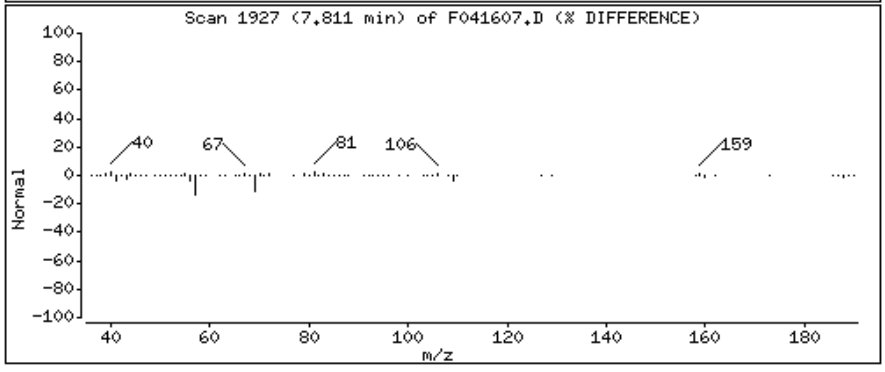












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 53

Date : 16-APR-2024 13:26

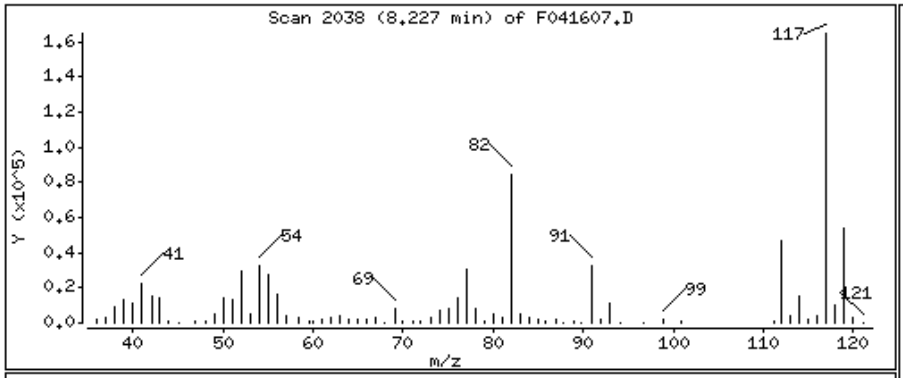
Client ID: VSTD010 Instrument: voa11.i

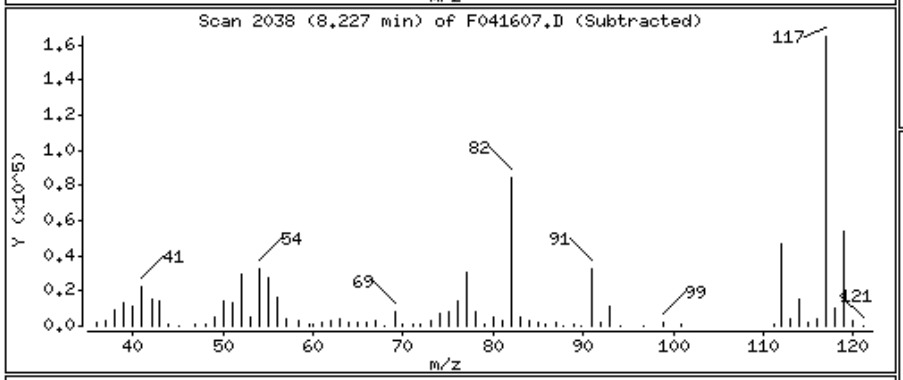
Sample Info: VSTD010;VSTD010;1;6;

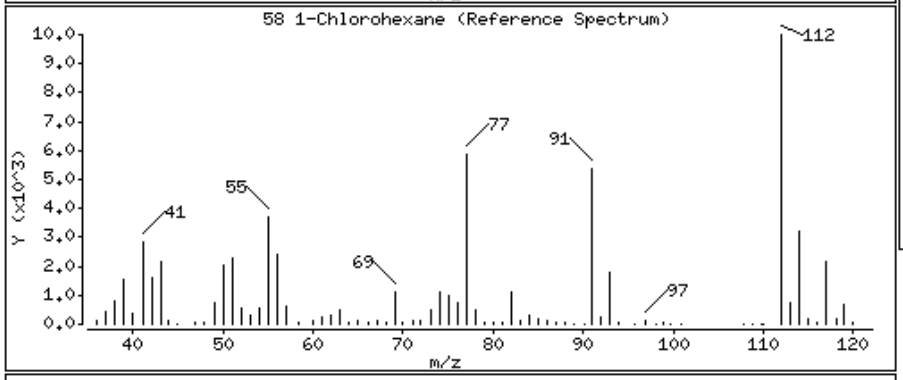
Purge Volume: 5.0 Operator: FT

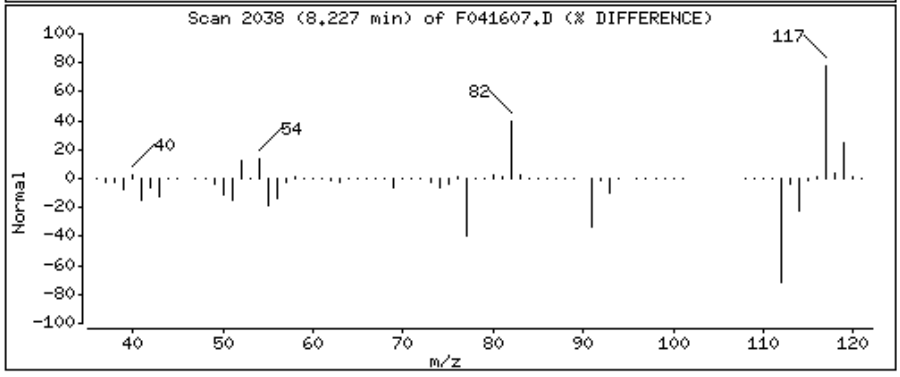
Column phase: DB624 Column diameter: 0.18

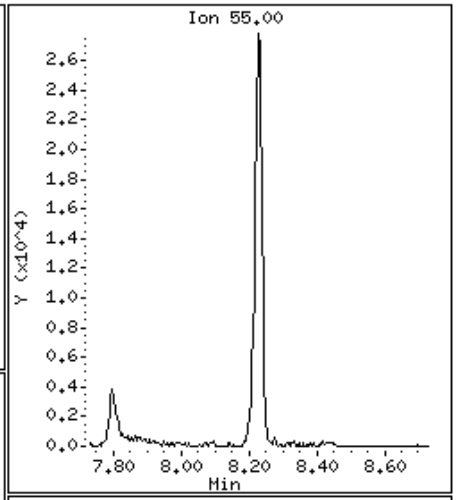
58 1-Chlorohexane Concentration: 9.62 ug/l

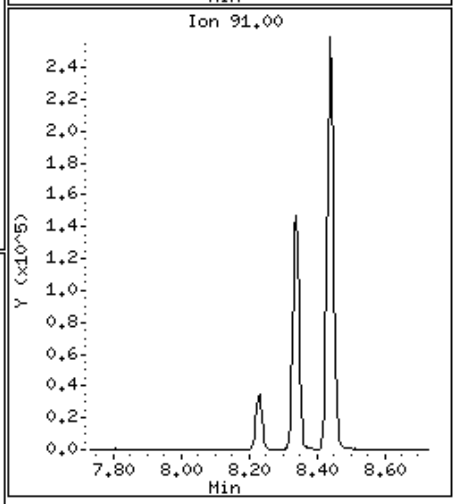












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

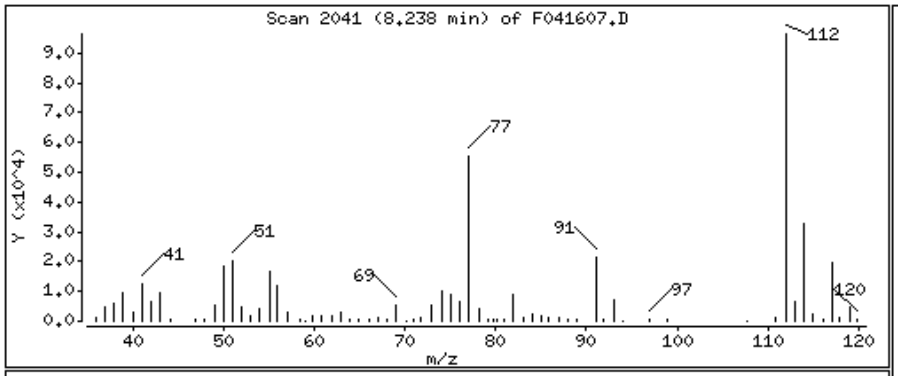
Operator: FT

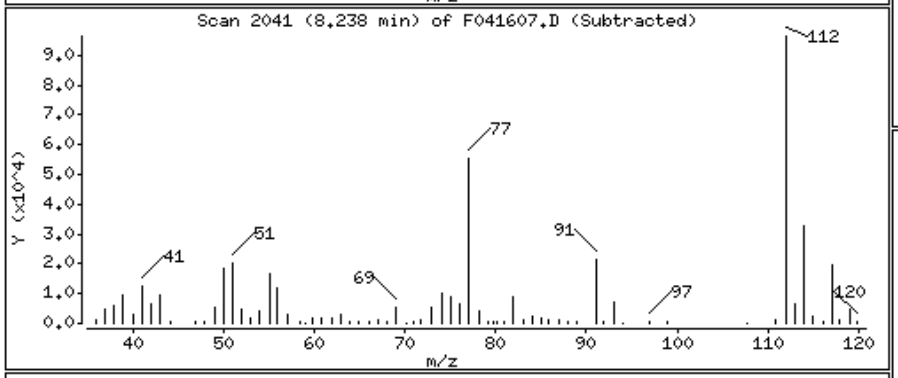
Column phase: DB624

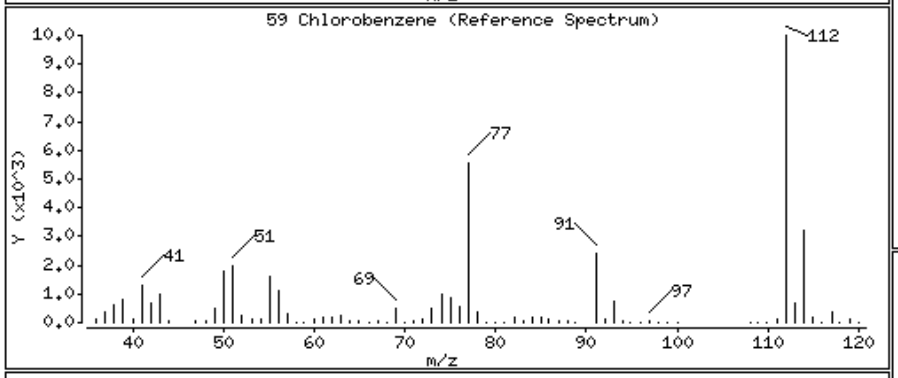
Column diameter: 0.18

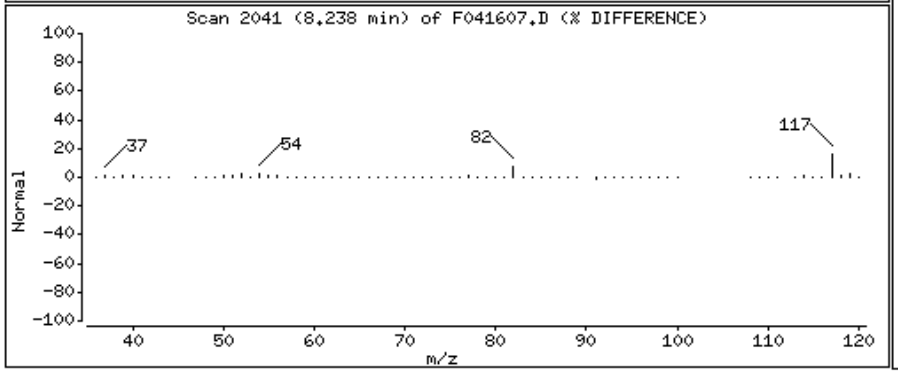
59 Chlorobenzene

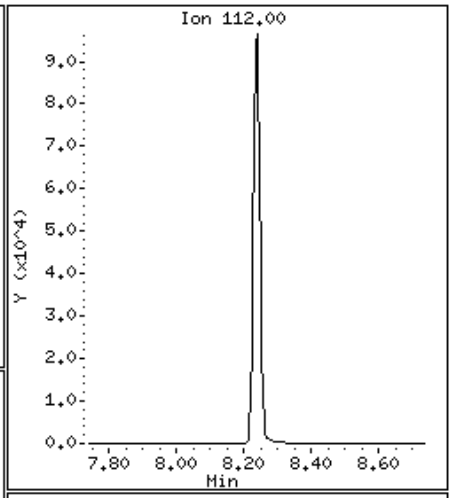
Concentration: 10.19 ug/l

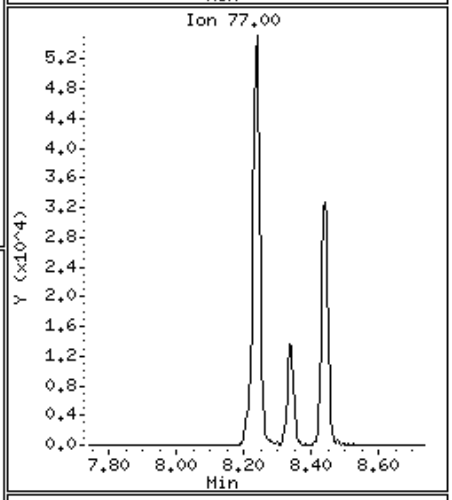


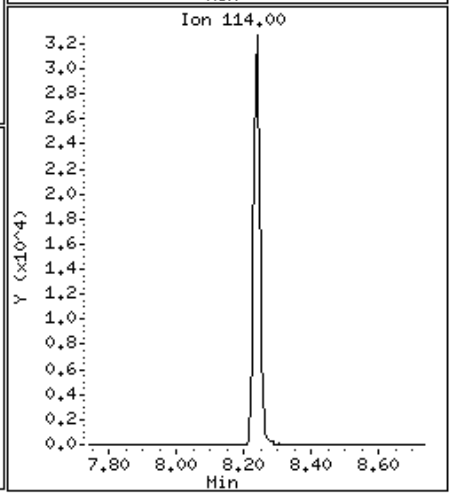












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 55

Date : 16-APR-2024 13:26

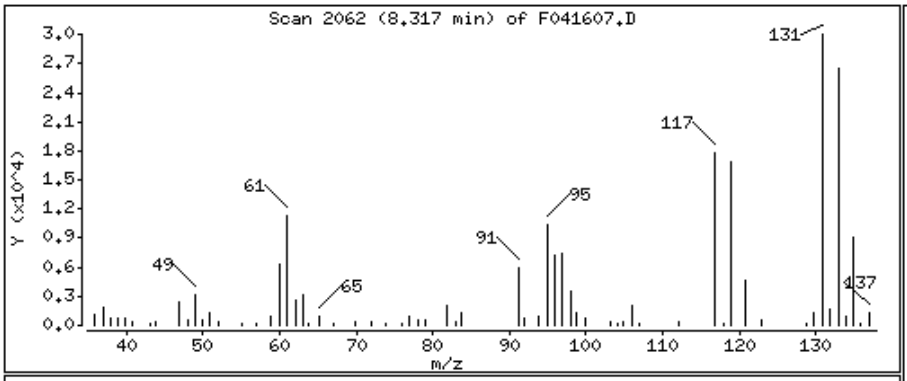
Client ID: VSTD010 Instrument: voa11.i

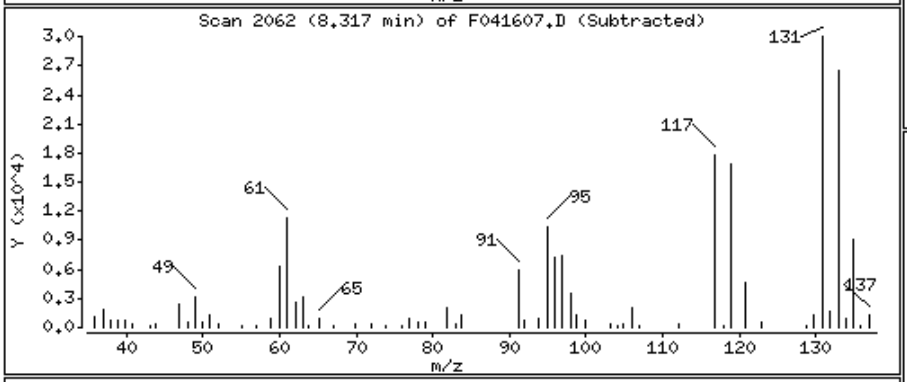
Sample Info: VSTD010;VSTD010;1;6;

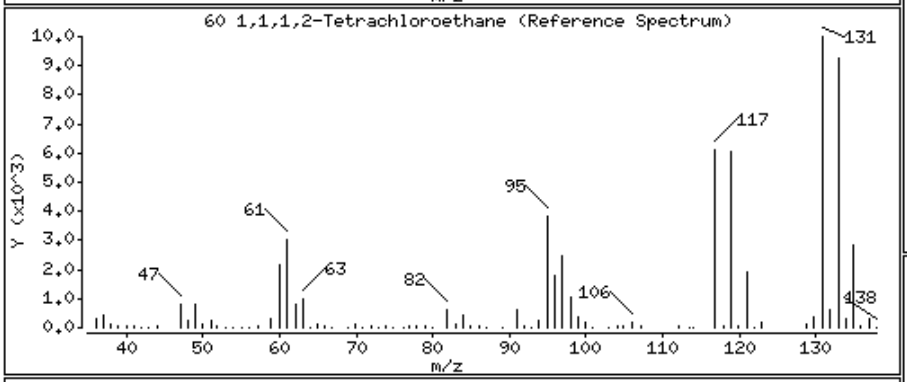
Purge Volume: 5.0 Operator: FT

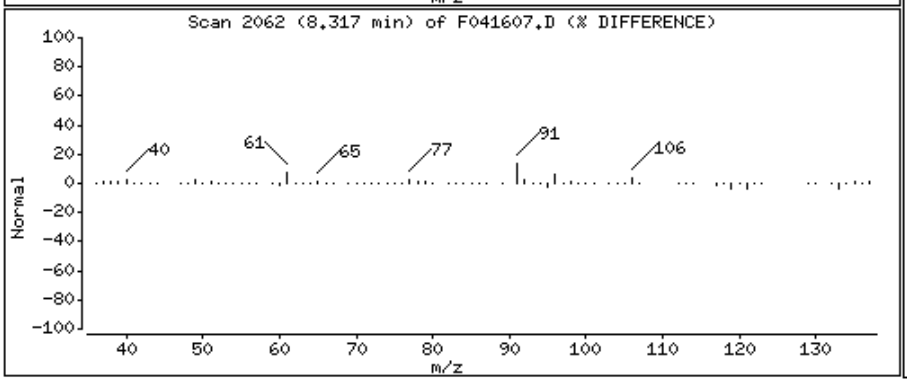
Column phase: DB624 Column diameter: 0.18

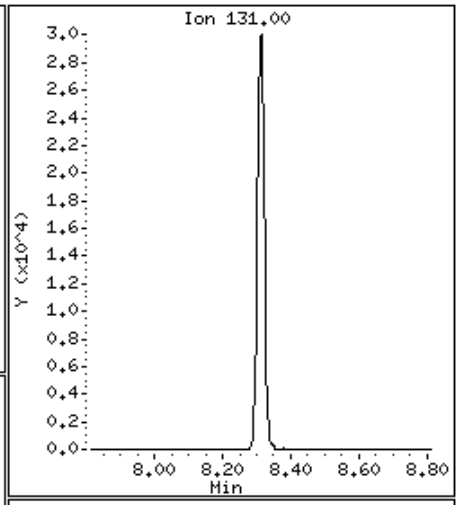
60 1,1,1,2-Tetrachloroethane Concentration: 10.56 ug/l

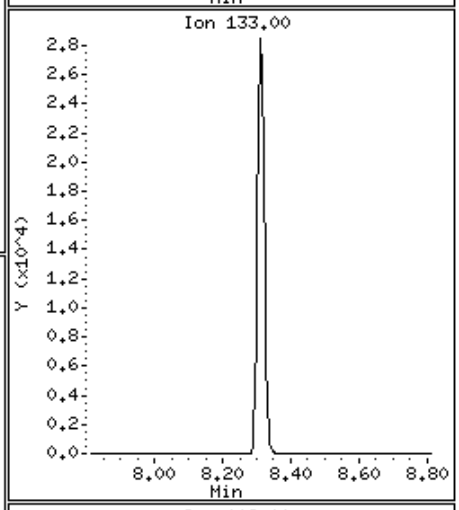


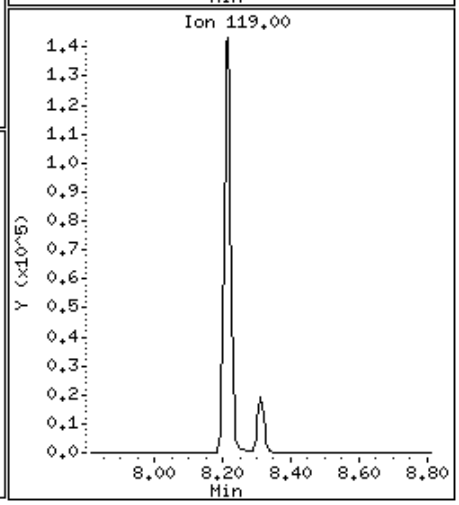












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

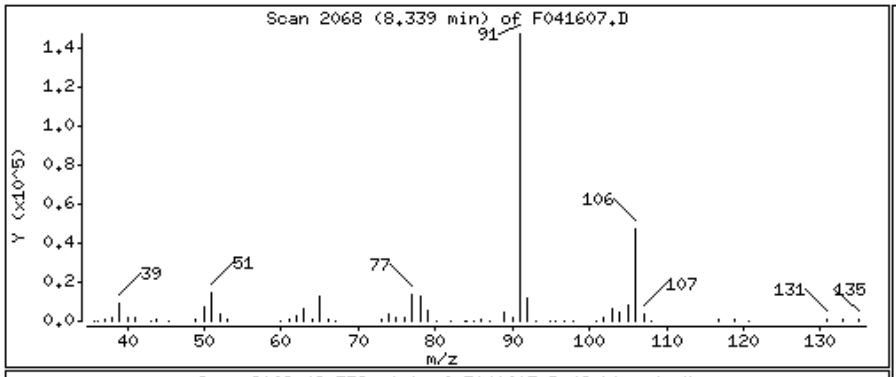
Operator: FT

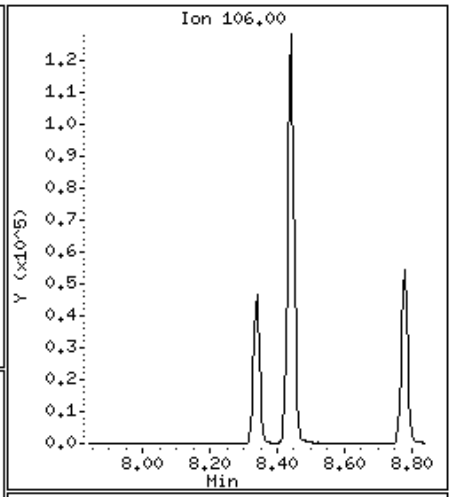
Column phase: DB624

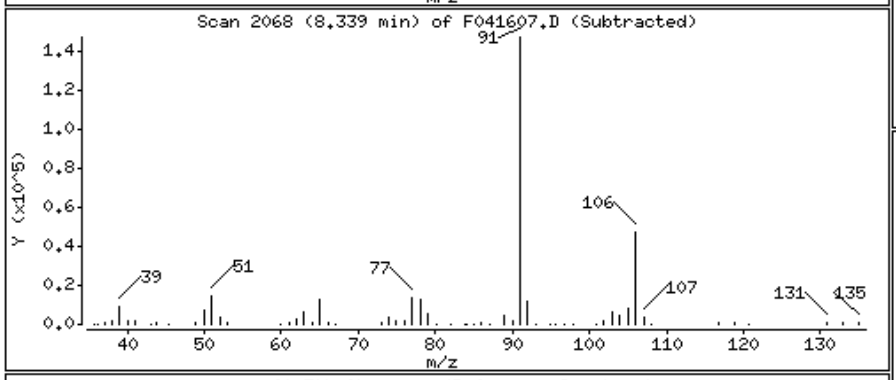
Column diameter: 0.18

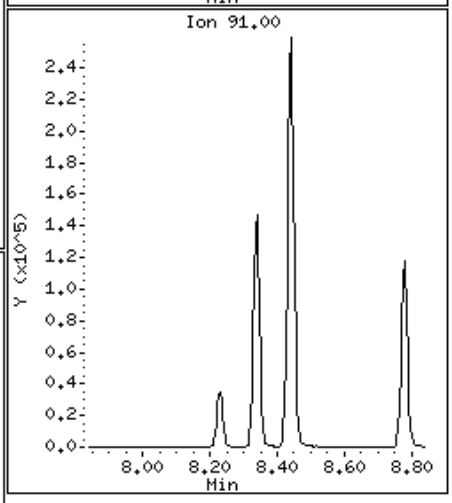
61 Ethylbenzene

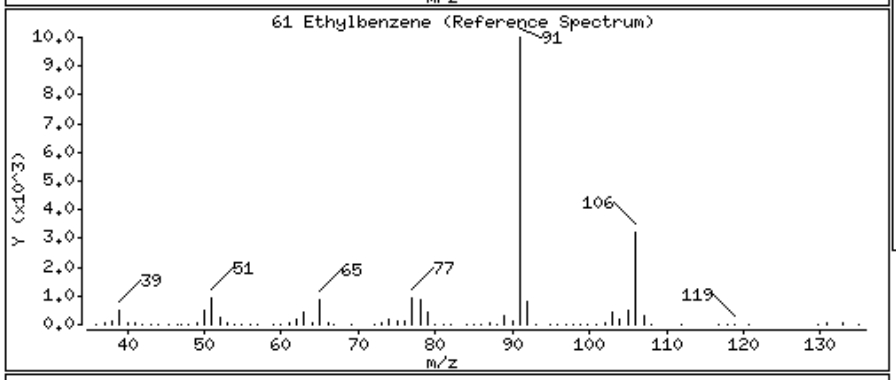
Concentration: 10.52 ug/l

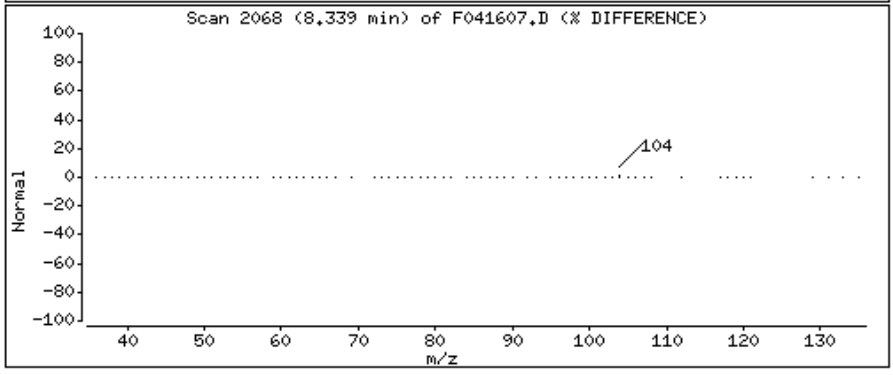












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 57

Date : 16-APR-2024 13:26

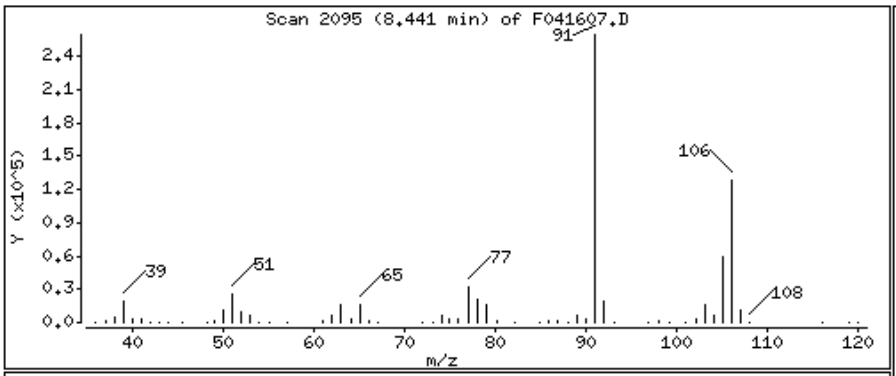
Client ID: VSTD010 Instrument: voa11.i

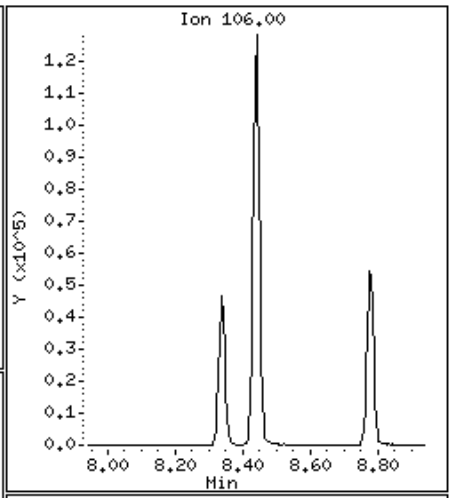
Sample Info: VSTD010;VSTD010;1;6;

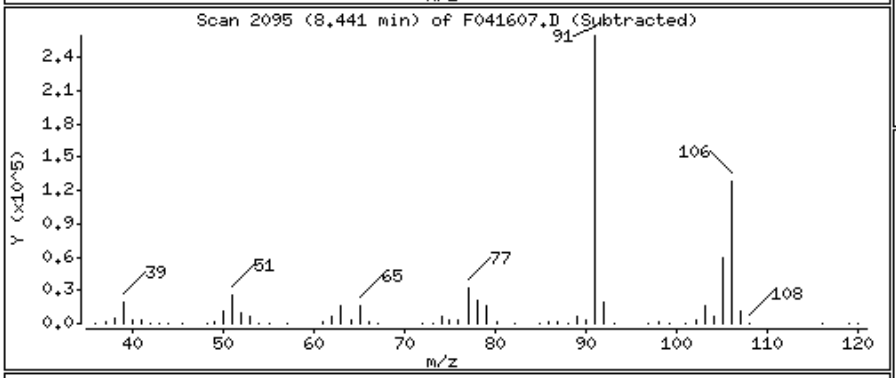
Purge Volume: 5.0 Operator: FT

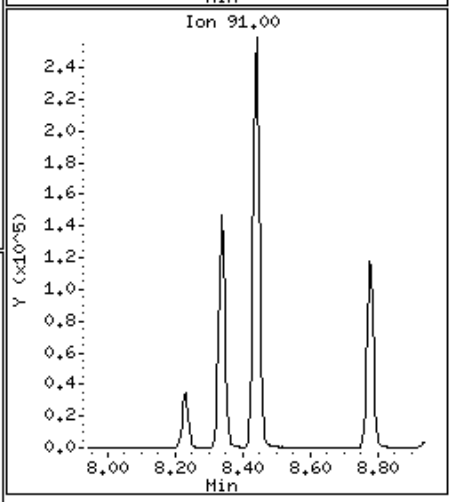
Column phase: DB624 Column diameter: 0.18

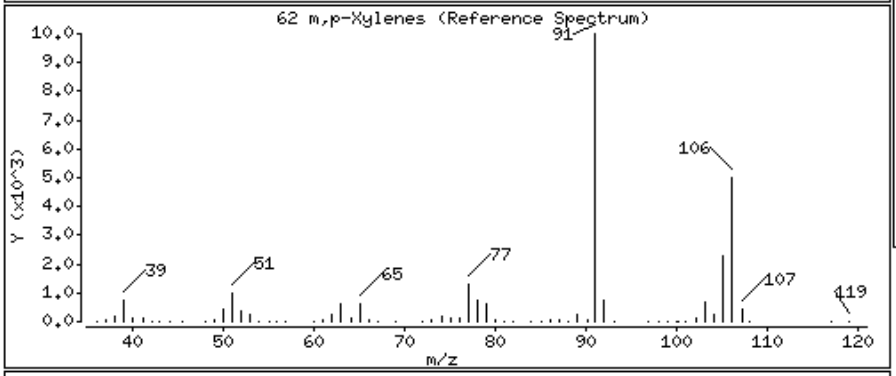
62 m,p-Xylenes Concentration: 21.97 ug/l

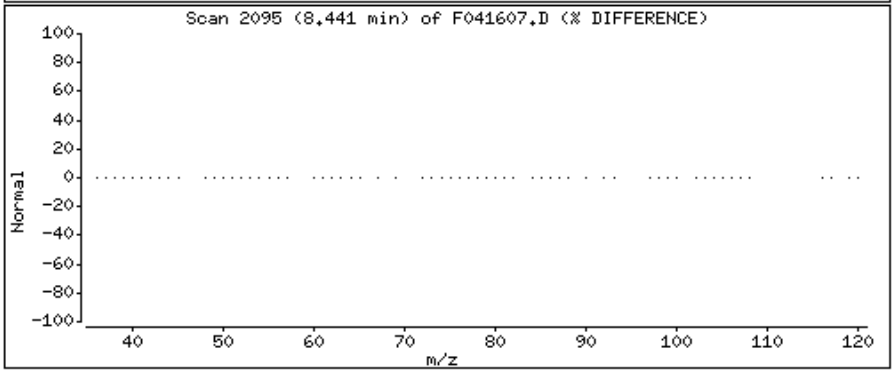












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 58

Date : 16-APR-2024 13:26

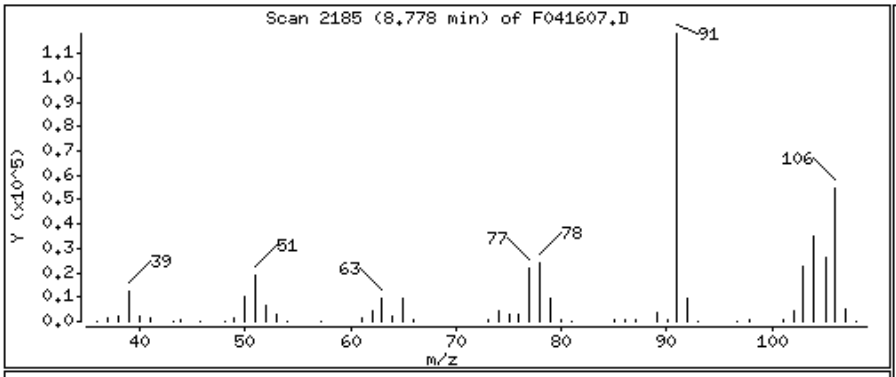
Client ID: VSTD010 Instrument: voa11.i

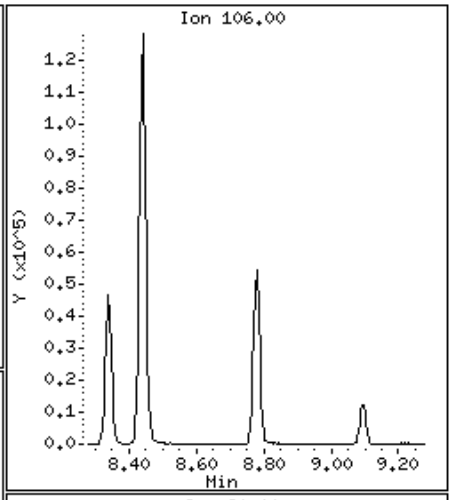
Sample Info: VSTD010;VSTD010;1;6;

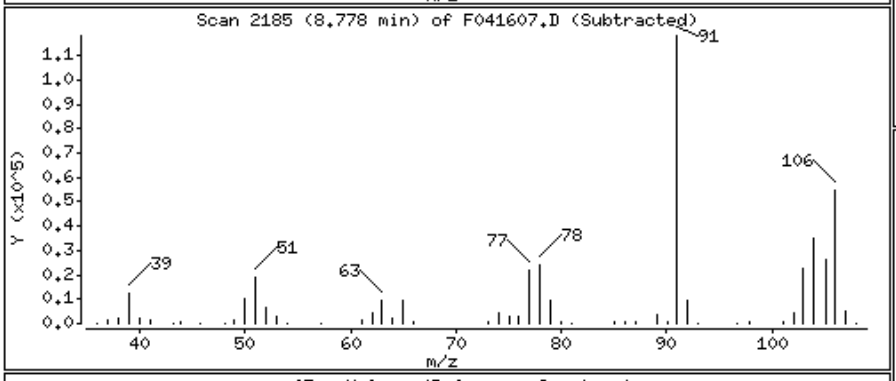
Purge Volume: 5.0 Operator: FT

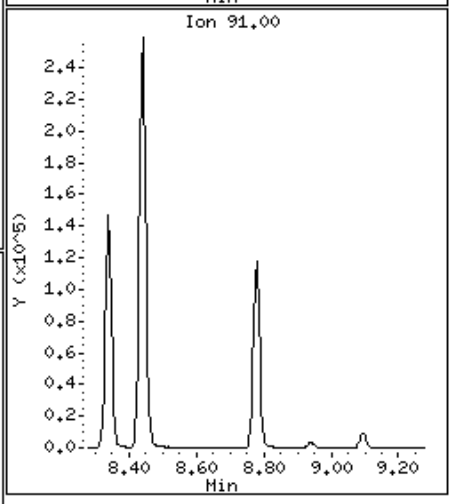
Column phase: DB624 Column diameter: 0.18

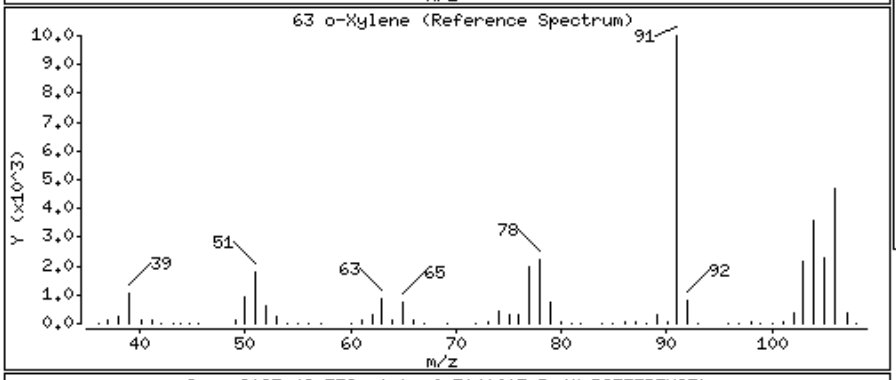
63 o-Xylene Concentration: 10.74 ug/l

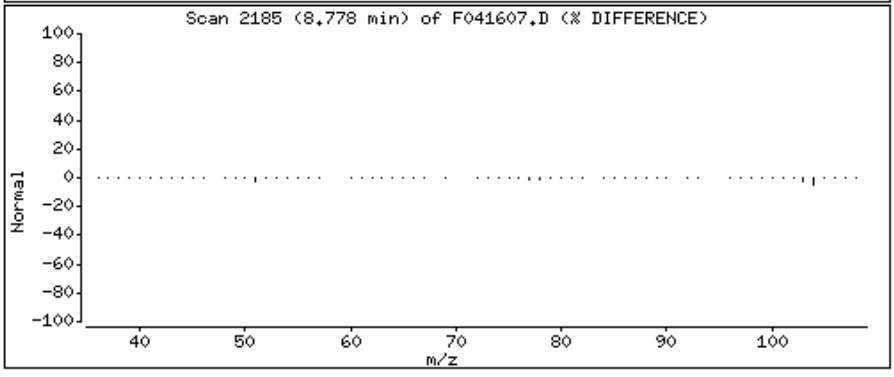












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 59

Date : 16-APR-2024 13:26

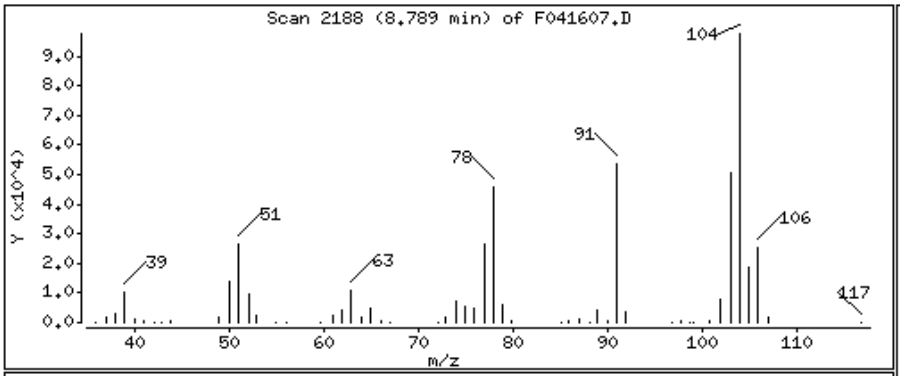
Client ID: VSTD010 Instrument: voa11.i

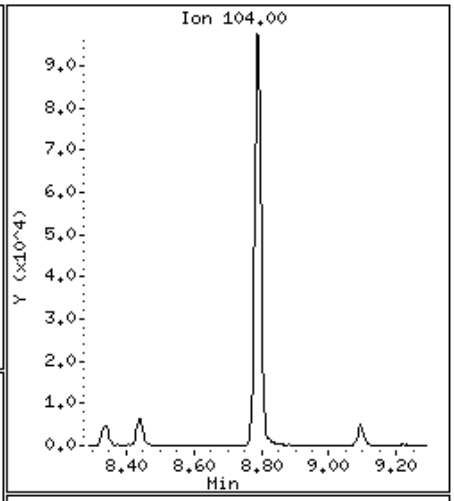
Sample Info: VSTD010;VSTD010;1;6;

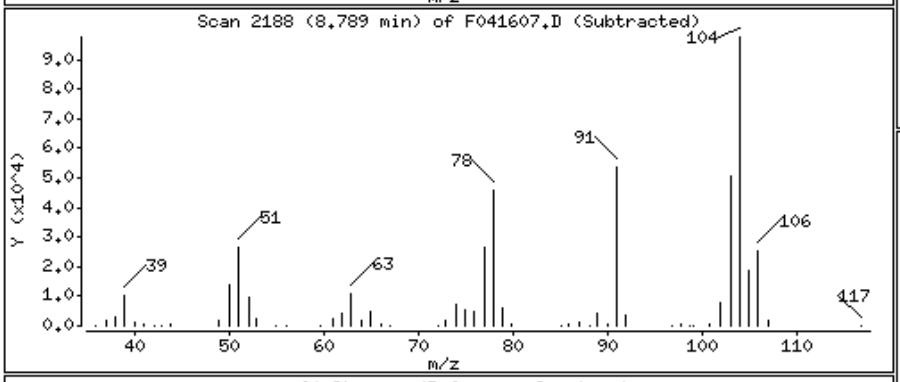
Purge Volume: 5.0 Operator: FT

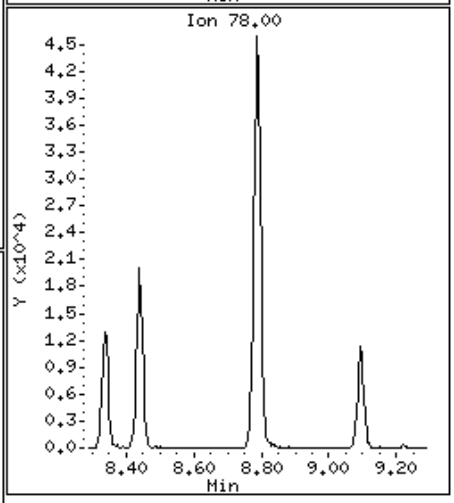
Column phase: DB624 Column diameter: 0.18

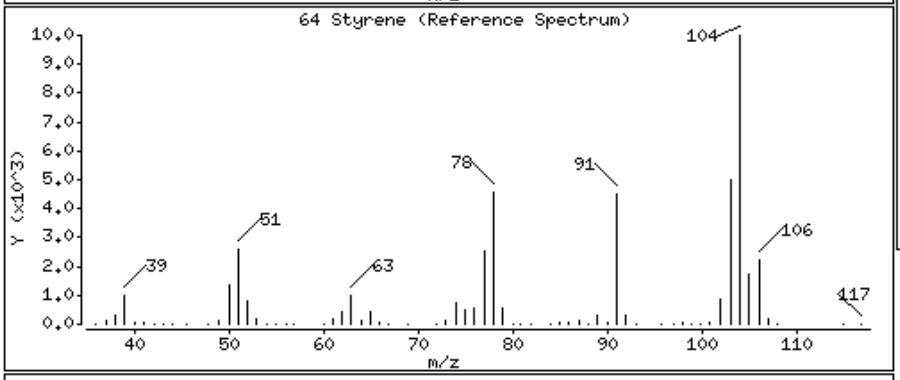
64 Styrene Concentration: 10.65 ug/l

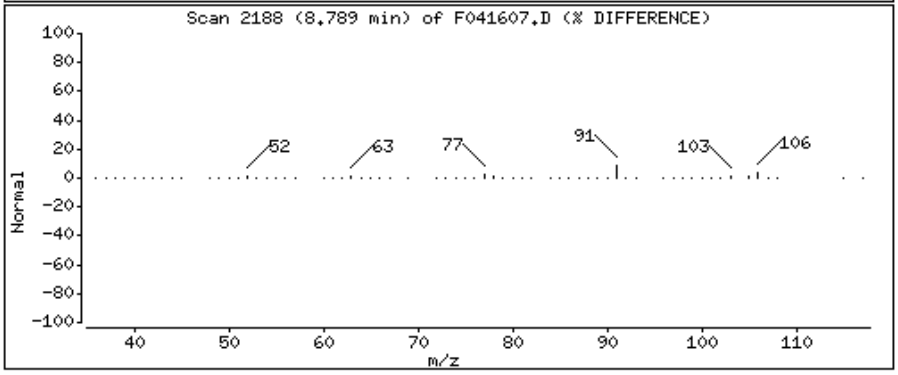












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 60

Date : 16-APR-2024 13:26

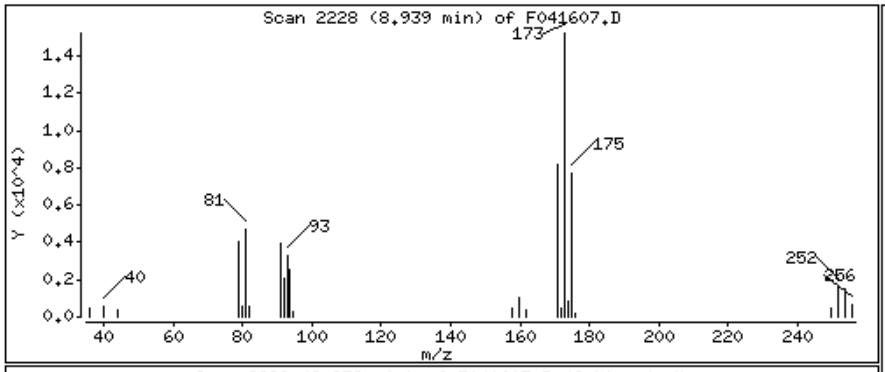
Client ID: VSTD010 Instrument: voa11.i

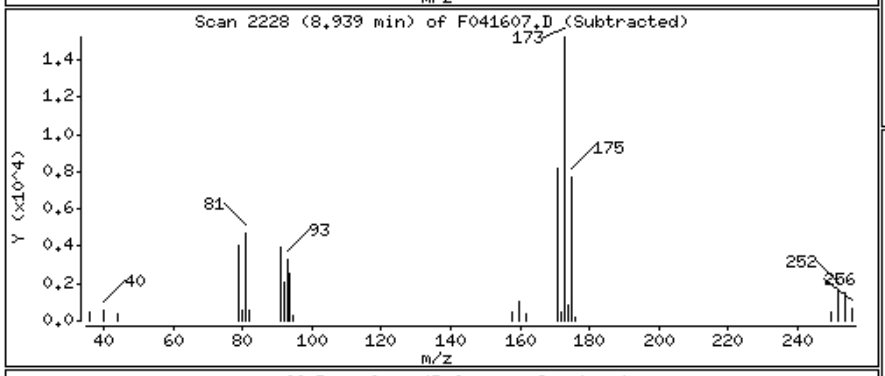
Sample Info: VSTD010;VSTD010;1;6;

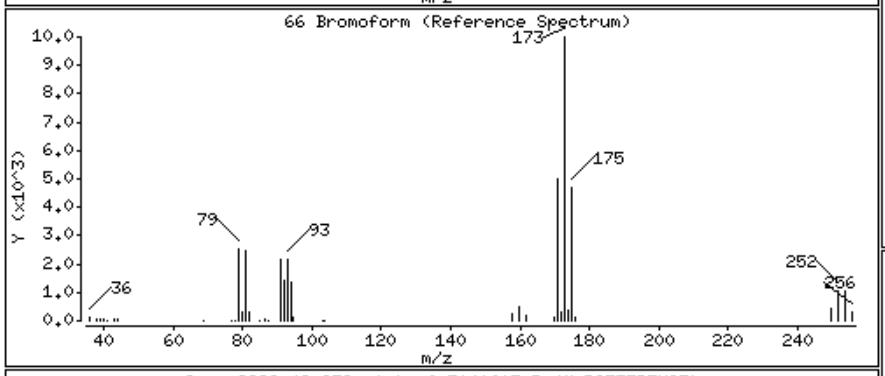
Purge Volume: 5.0 Operator: FT

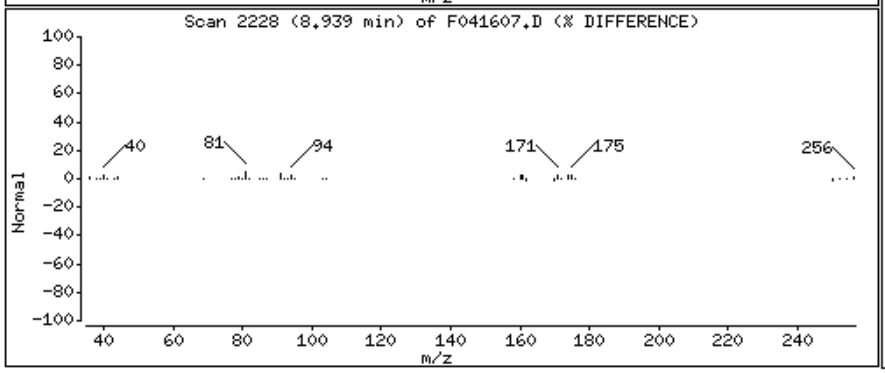
Column phase: DB624 Column diameter: 0.18

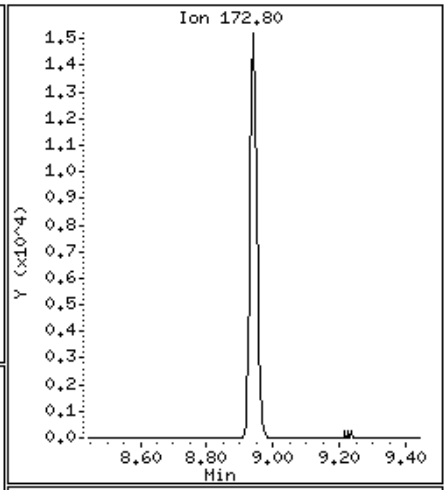
66 Bromoform Concentration: 9.83 ug/l

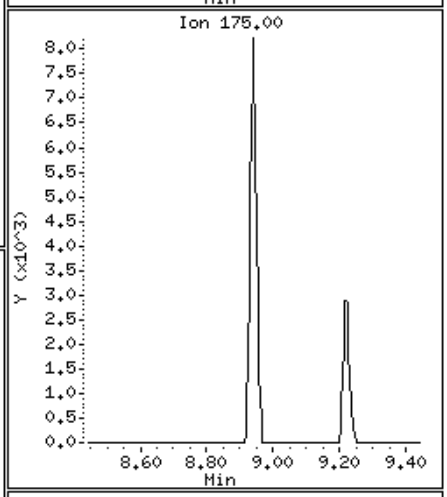


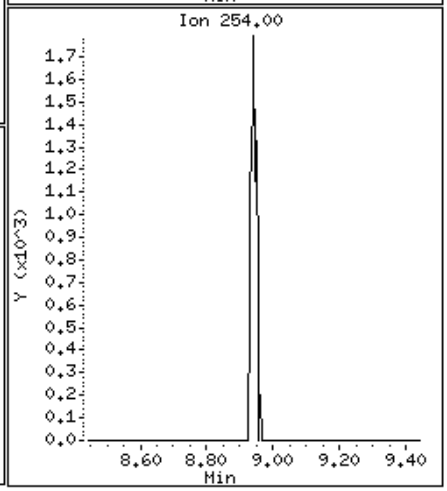












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 61

Date : 16-APR-2024 13:26

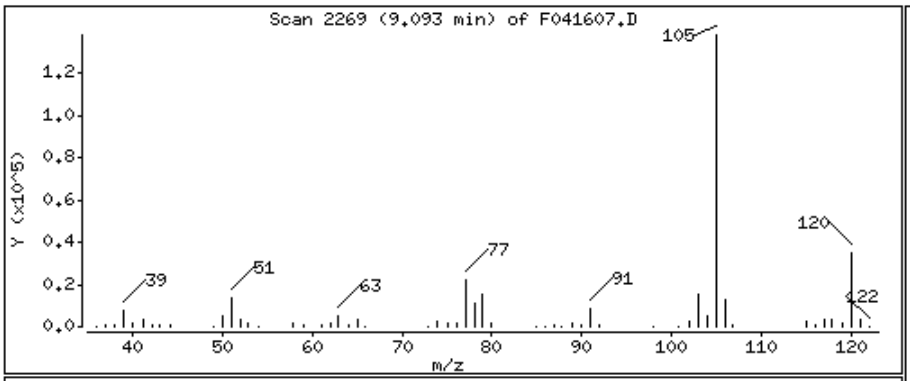
Client ID: VSTD010 Instrument: voa11.i

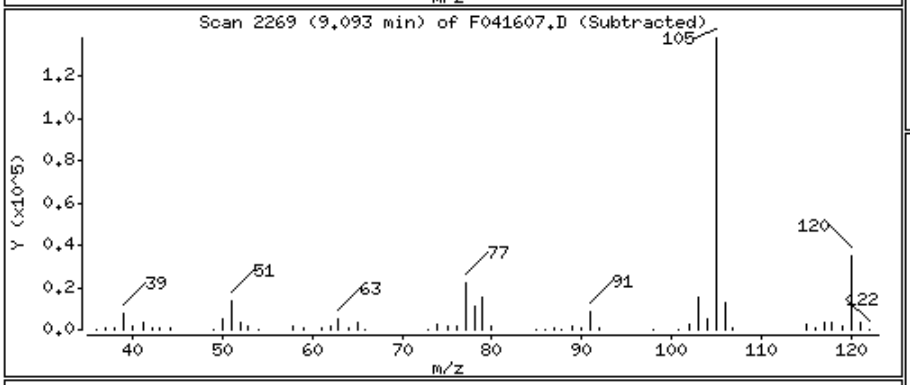
Sample Info: VSTD010;VSTD010;1;6;

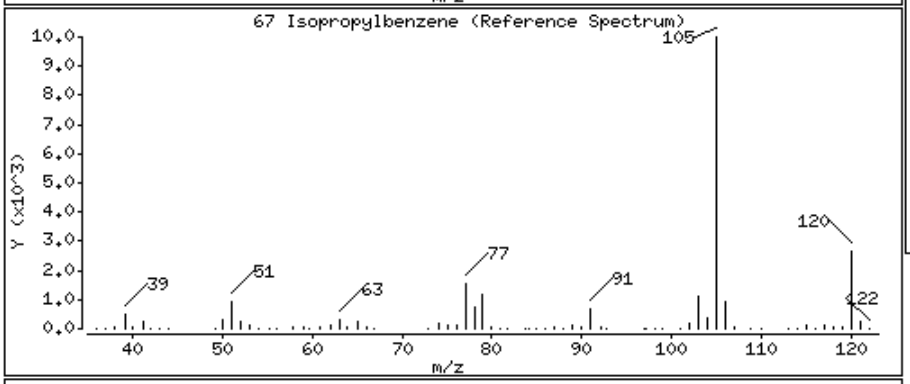
Purge Volume: 5.0 Operator: FT

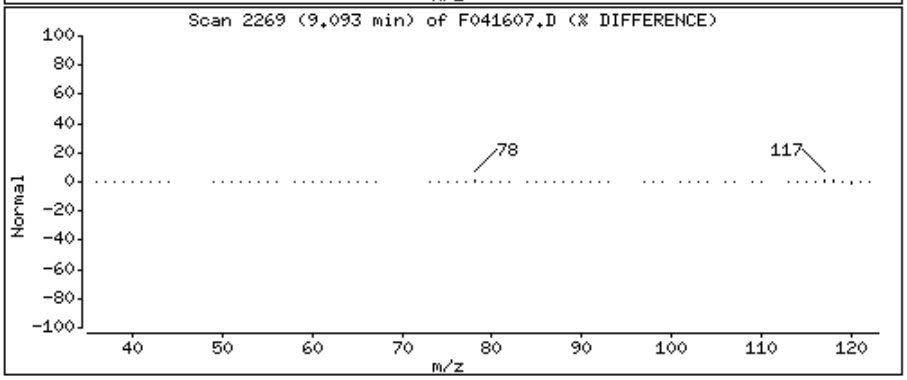
Column phase: DB624 Column diameter: 0.18

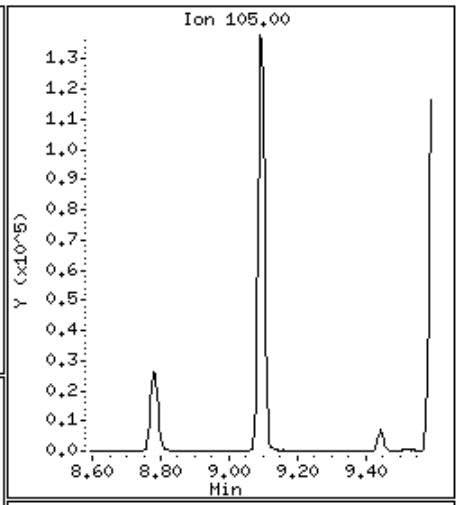
67 Isopropylbenzene Concentration: 10.14 ug/l

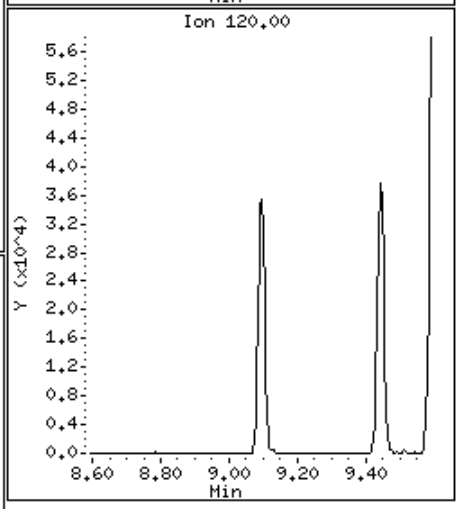












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 62

Date : 16-APR-2024 13:26

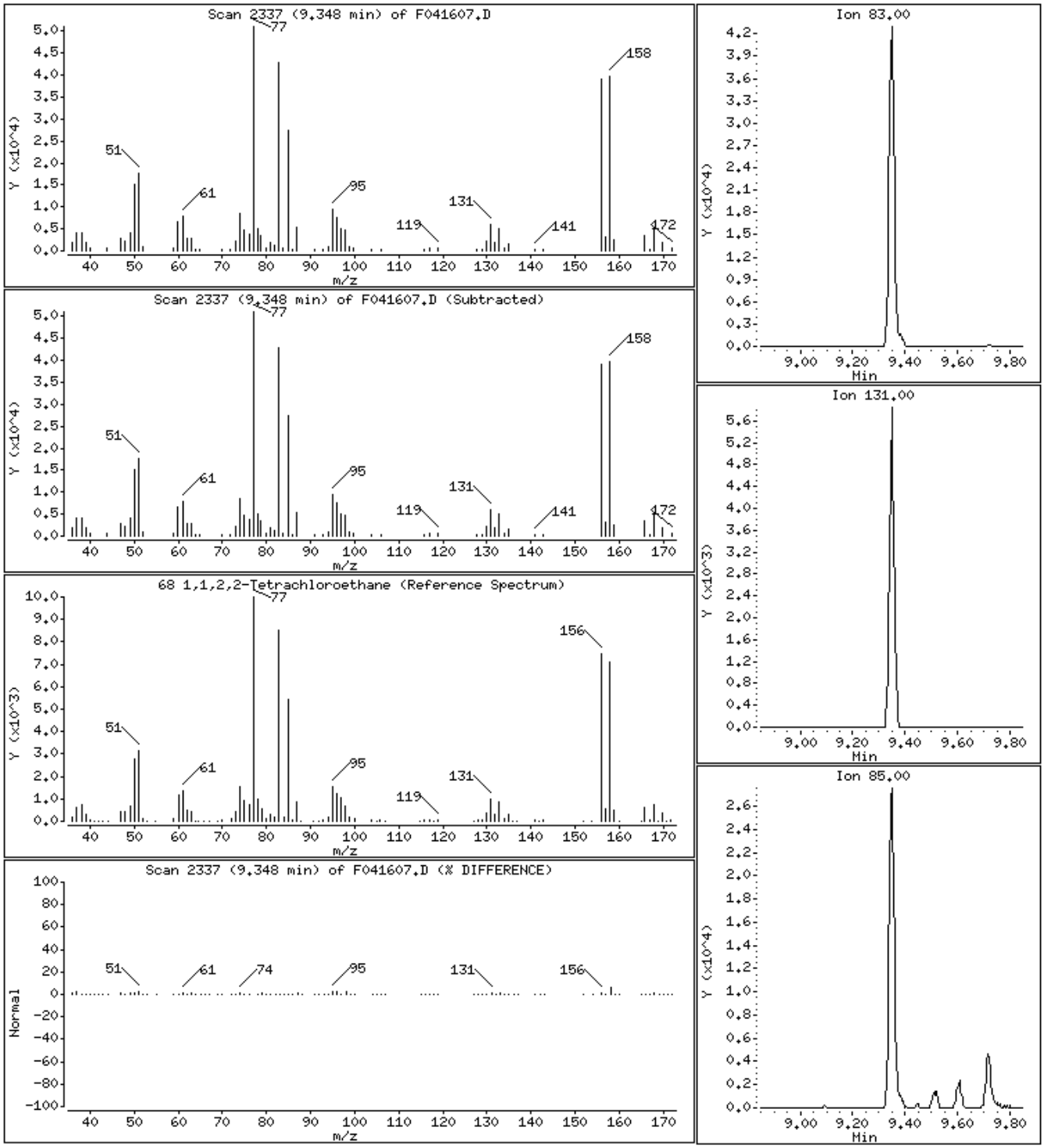
Client ID: VSTD010 Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0 Operator: FT

Column phase: DB624 Column diameter: 0.18

68 1,1,2,2-Tetrachloroethane Concentration: 10.35 ug/l



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 63

Date : 16-APR-2024 13:26

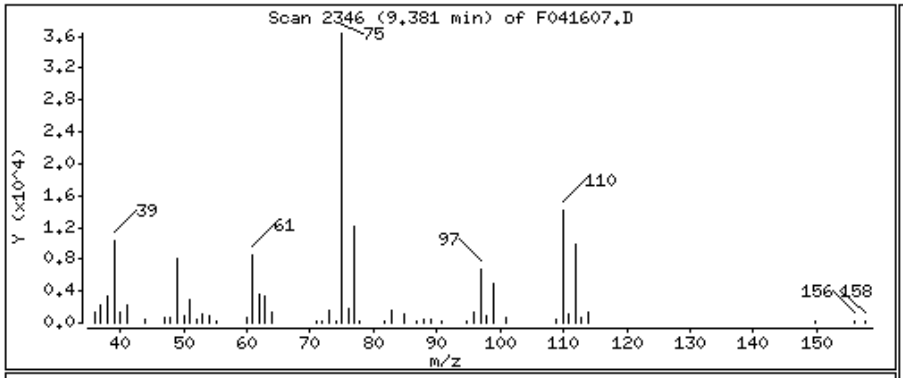
Client ID: VSTD010 Instrument: voa11.i

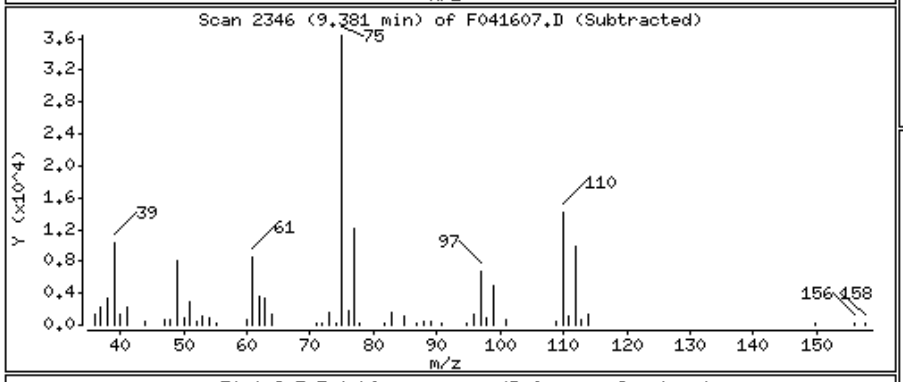
Sample Info: VSTD010;VSTD010;1;6;

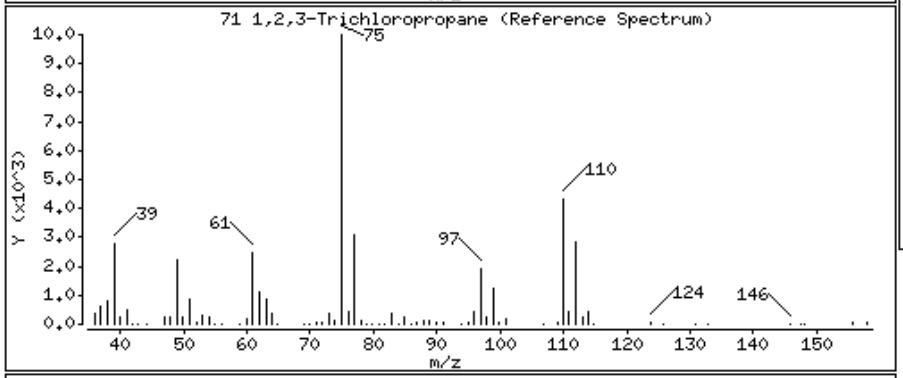
Purge Volume: 5.0 Operator: FT

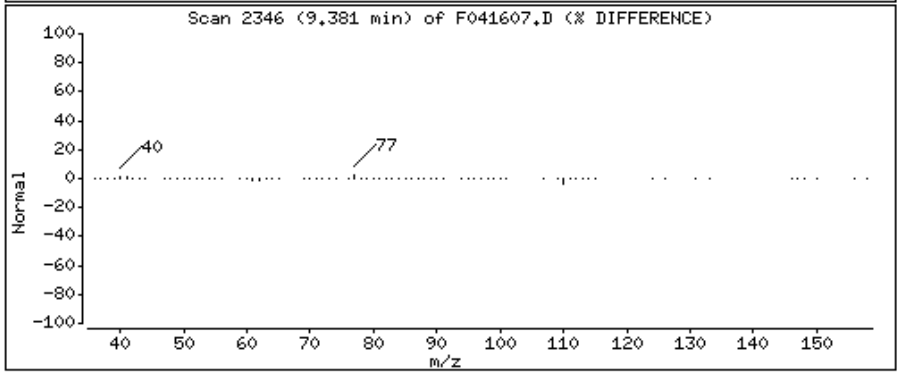
Column phase: DB624 Column diameter: 0.18

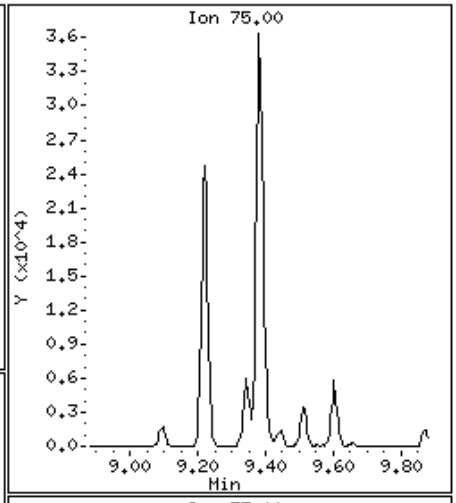
71 1,2,3-Trichloropropane Concentration: 10.16 ug/l

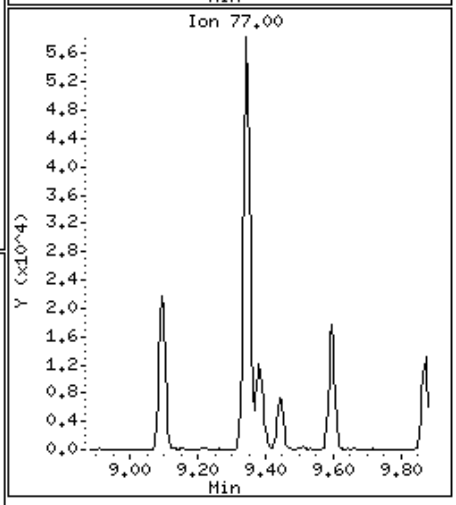












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

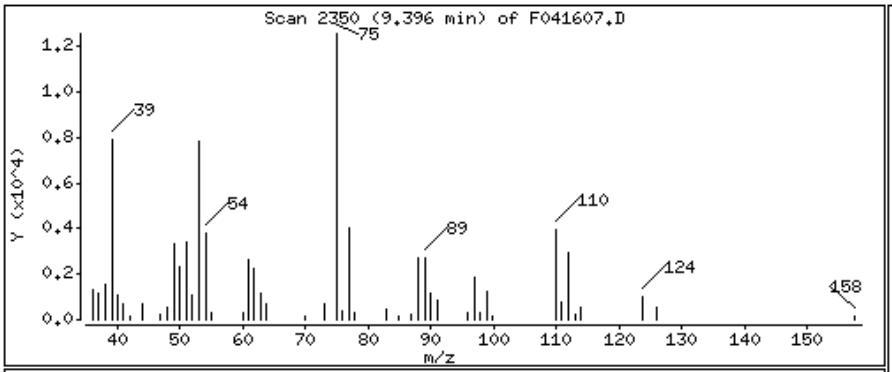
Operator: FT

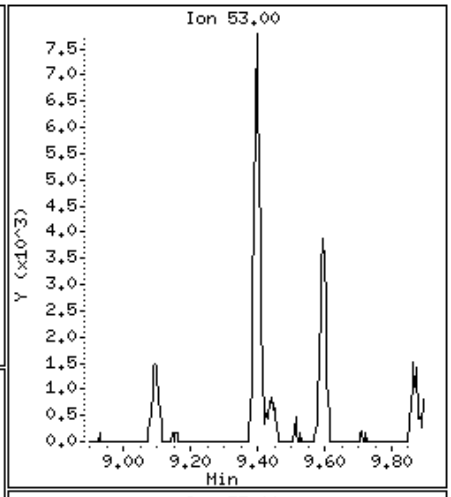
Column phase: DB624

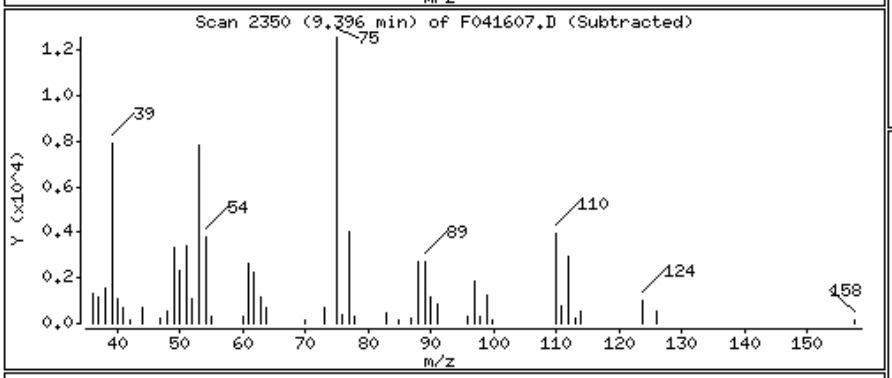
Column diameter: 0.18

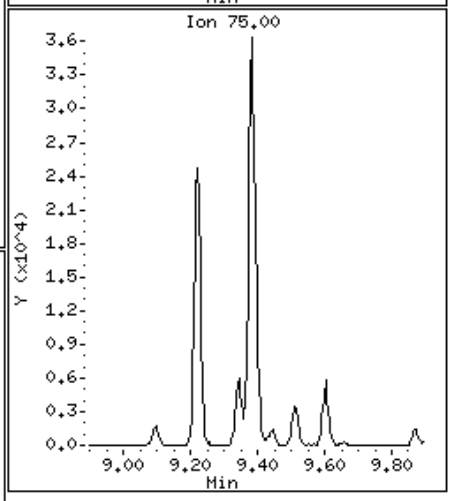
72 trans-1,4-Dichloro-2-butene

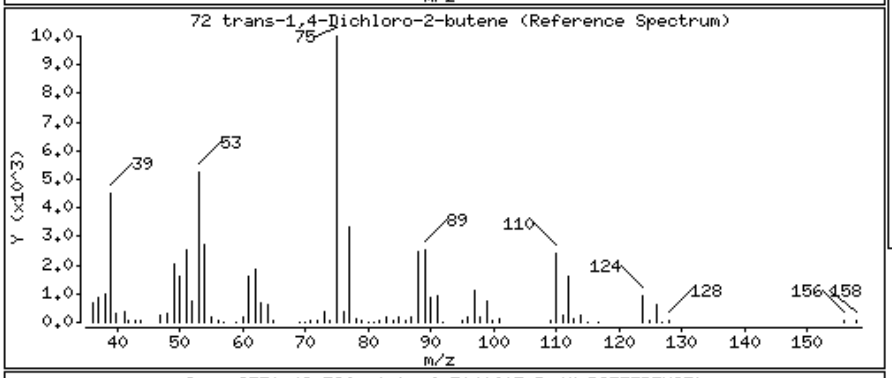
Concentration: 10.12 ug/l

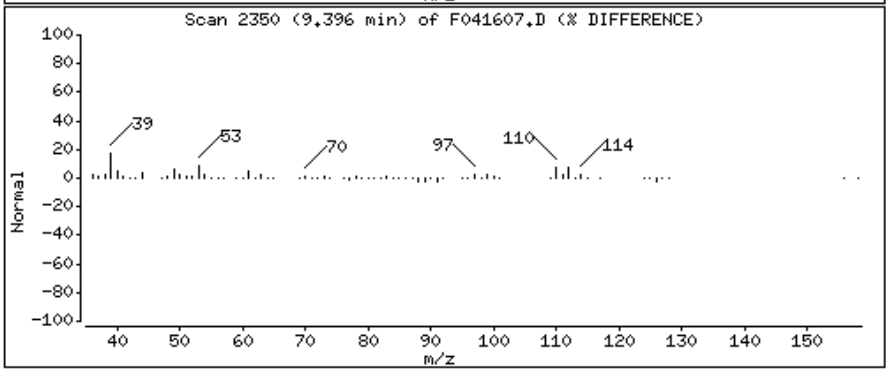












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 65

Date : 16-APR-2024 13:26

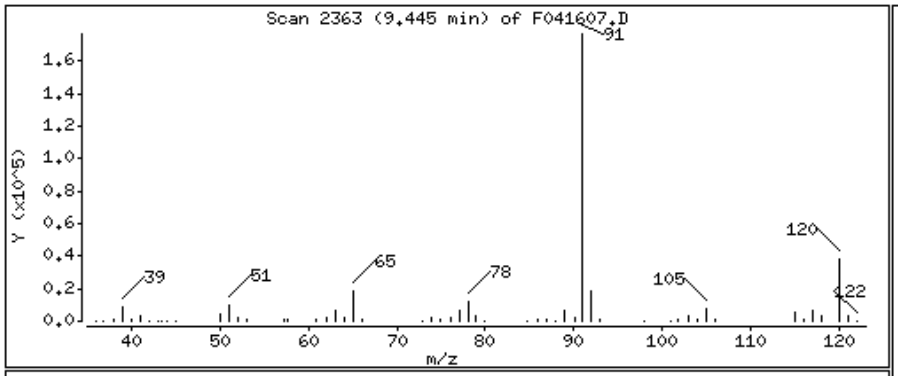
Client ID: VSTD010 Instrument: voa11.i

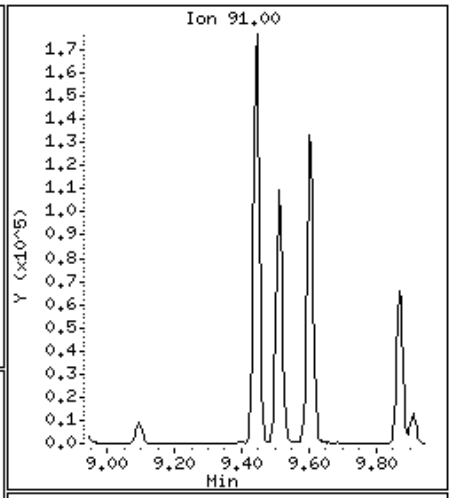
Sample Info: VSTD010;VSTD010;1;6;

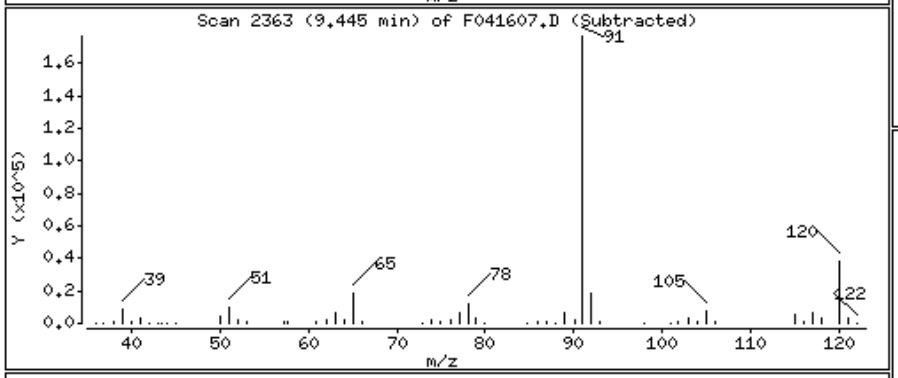
Purge Volume: 5.0 Operator: FT

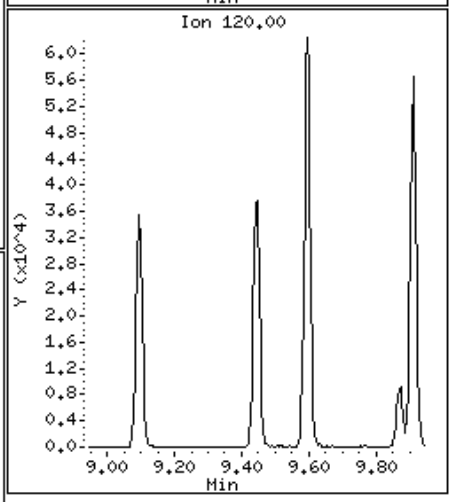
Column phase: DB624 Column diameter: 0.18

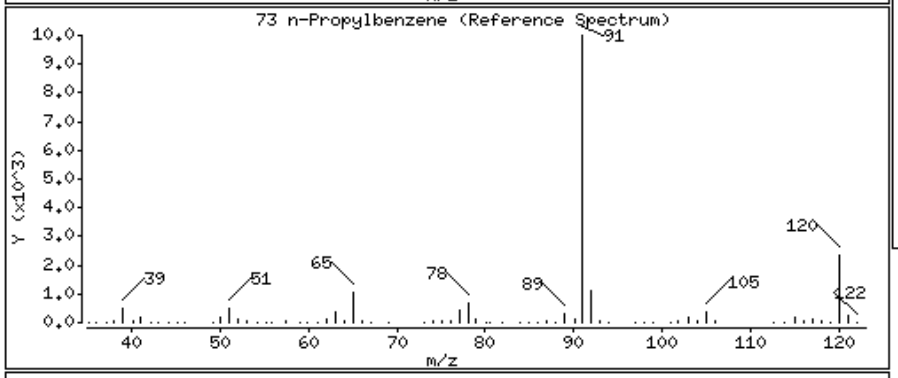
73 n-Propylbenzene Concentration: 10.41 ug/l

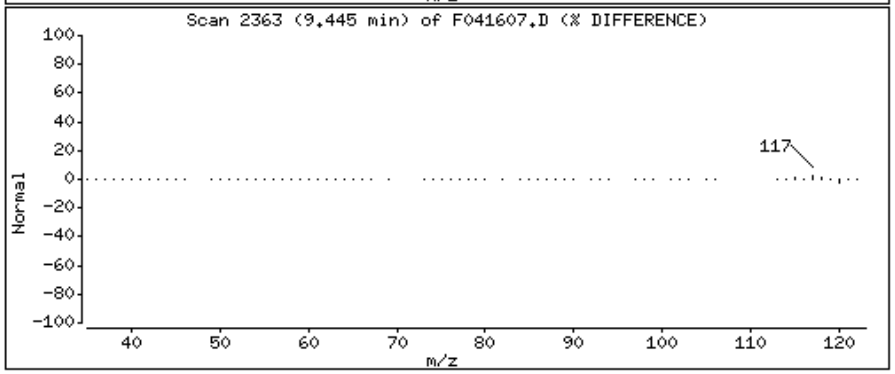












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 66

Date : 16-APR-2024 13:26

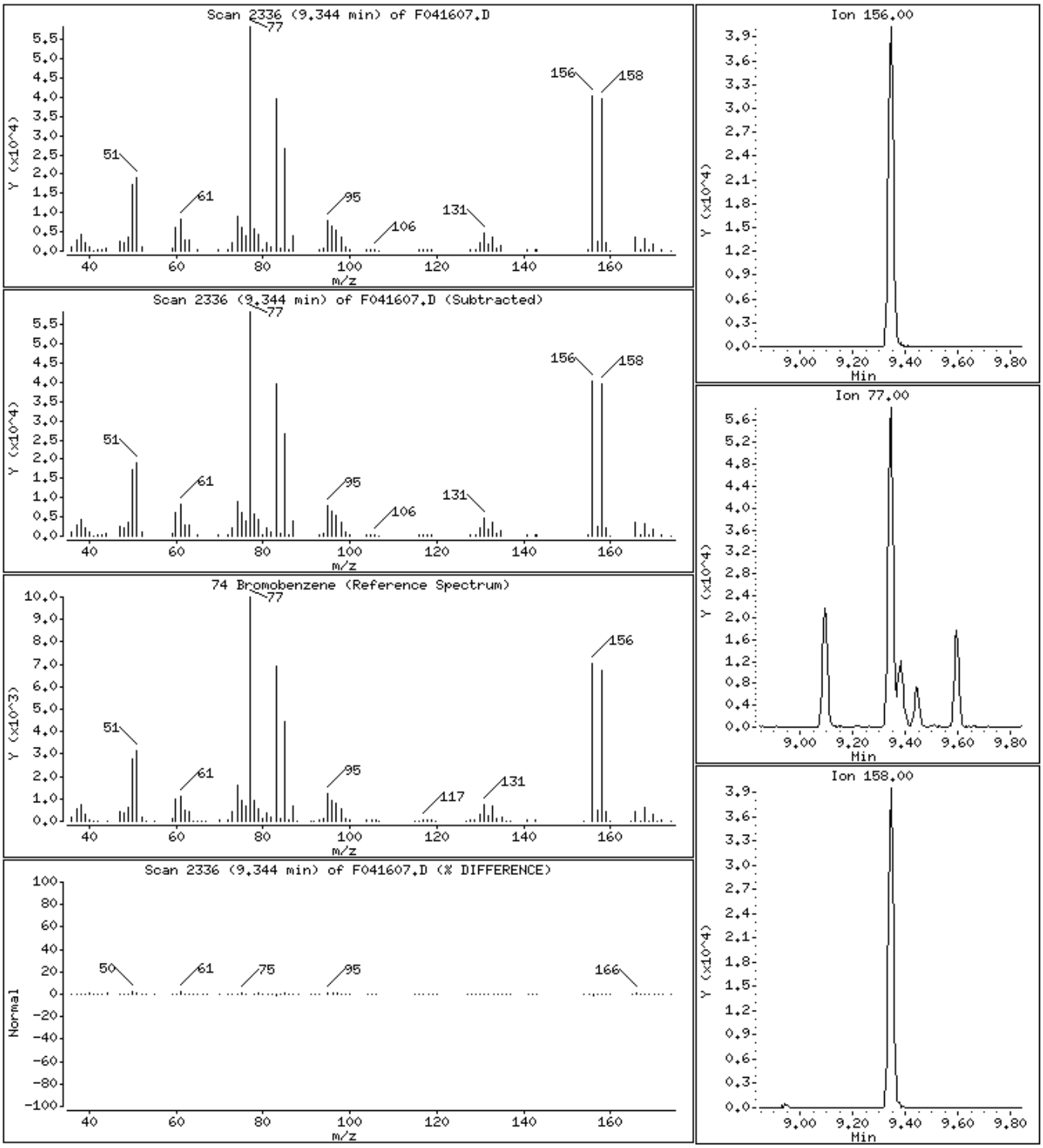
Client ID: VSTD010 Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0 Operator: FT

Column phase: DB624 Column diameter: 0.18

74 Bromobenzene Concentration: 10.92 ug/l



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 67

Date : 16-APR-2024 13:26

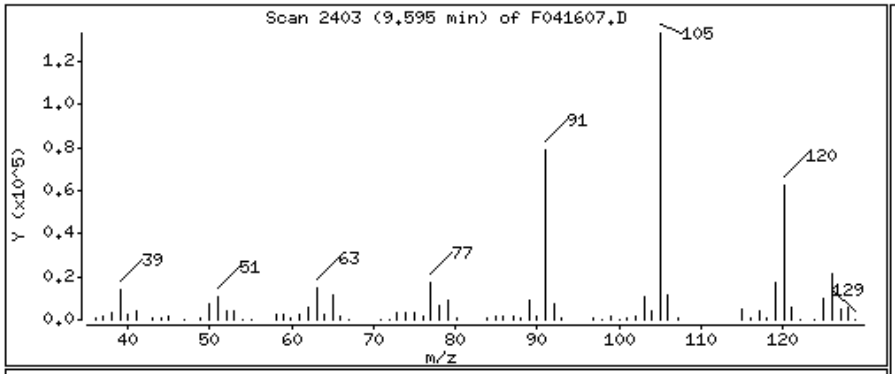
Client ID: VSTD010 Instrument: voa11.i

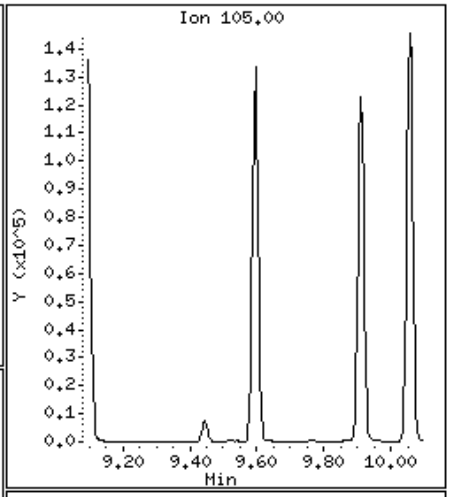
Sample Info: VSTD010;VSTD010;1;6;

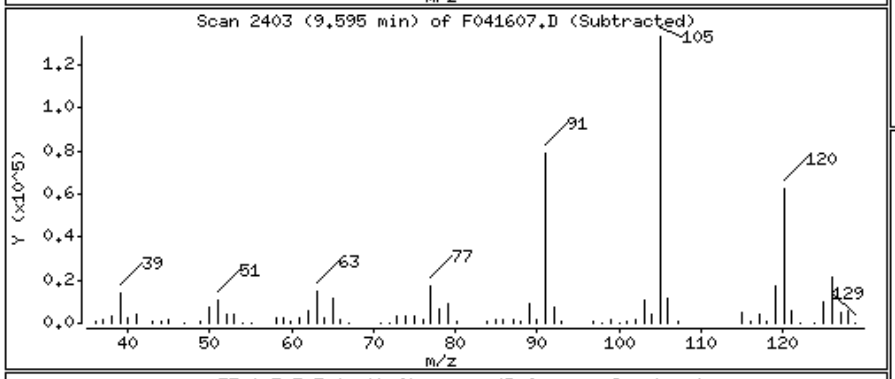
Purge Volume: 5.0 Operator: FT

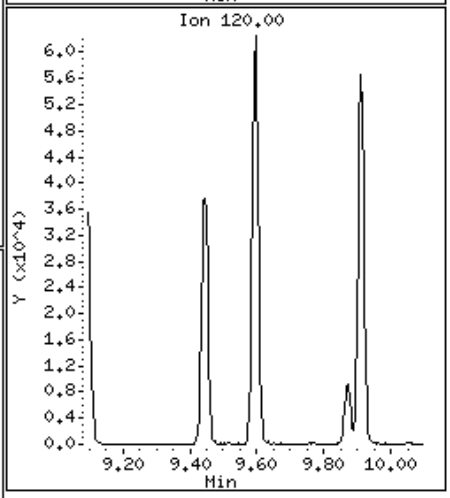
Column phase: DB624 Column diameter: 0.18

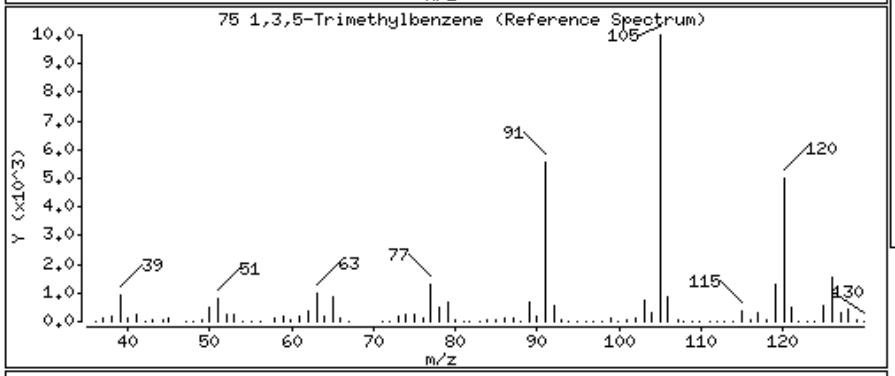
75 1,3,5-Trimethylbenzene Concentration: 10.01 ug/l

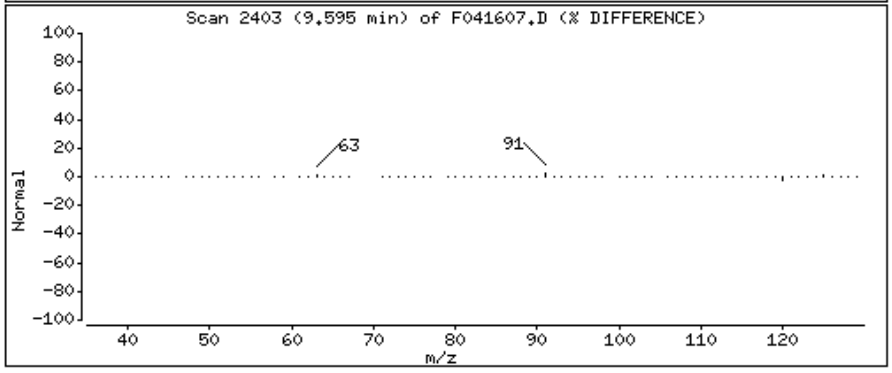












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 68

Date : 16-APR-2024 13:26

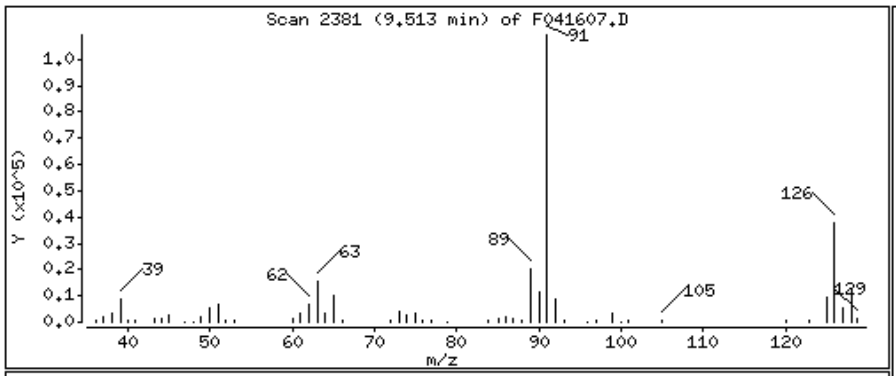
Client ID: VSTD010 Instrument: voa11.i

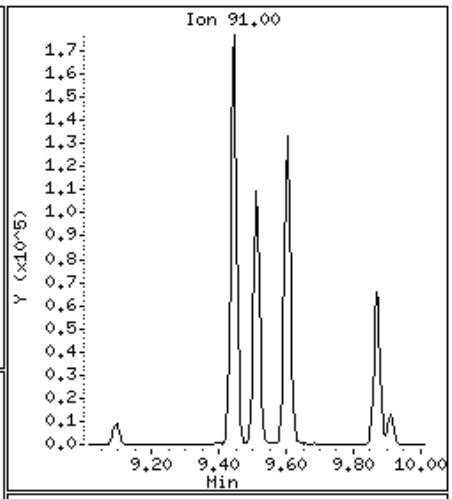
Sample Info: VSTD010;VSTD010;1;6;

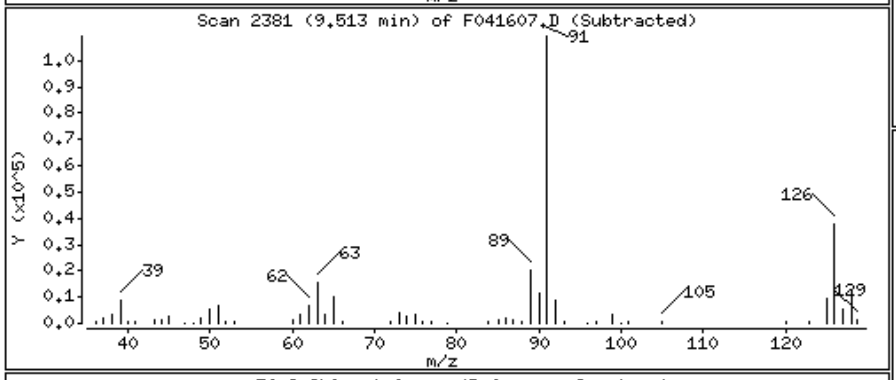
Purge Volume: 5.0 Operator: FT

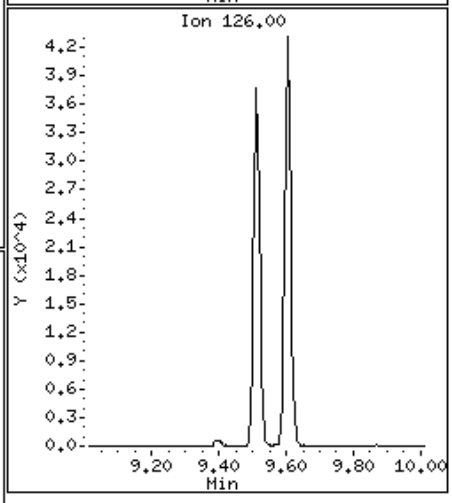
Column phase: DB624 Column diameter: 0.18

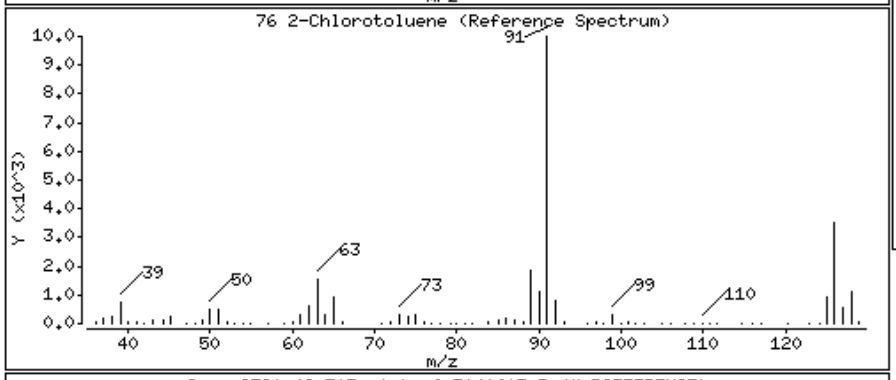
76 2-Chlorotoluene Concentration: 10.79 ug/l

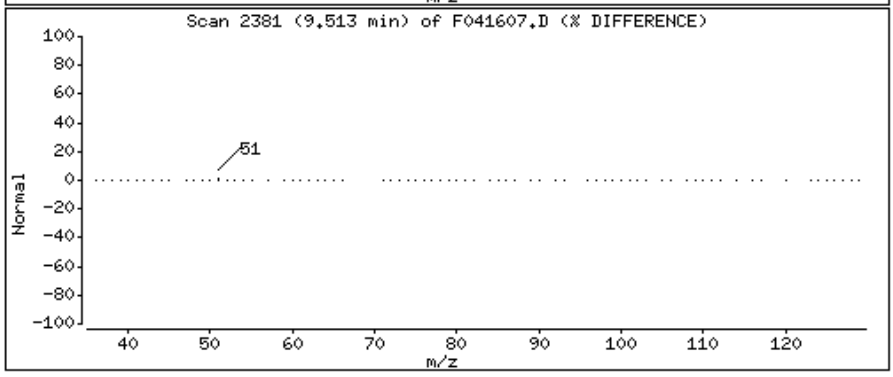












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 69

Date : 16-APR-2024 13:26

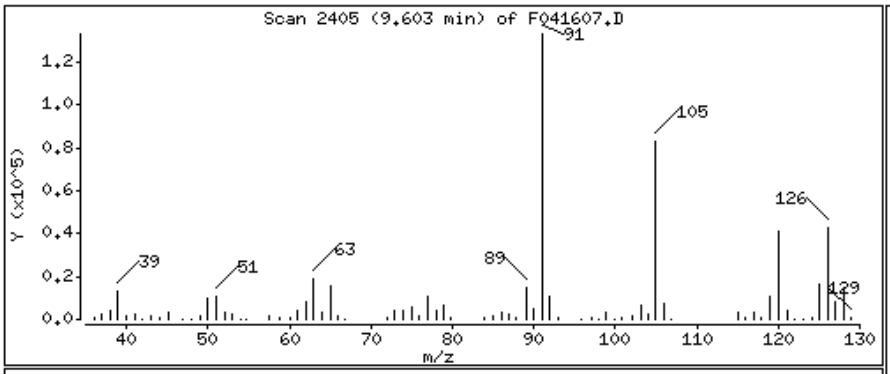
Client ID: VSTD010 Instrument: voa11.i

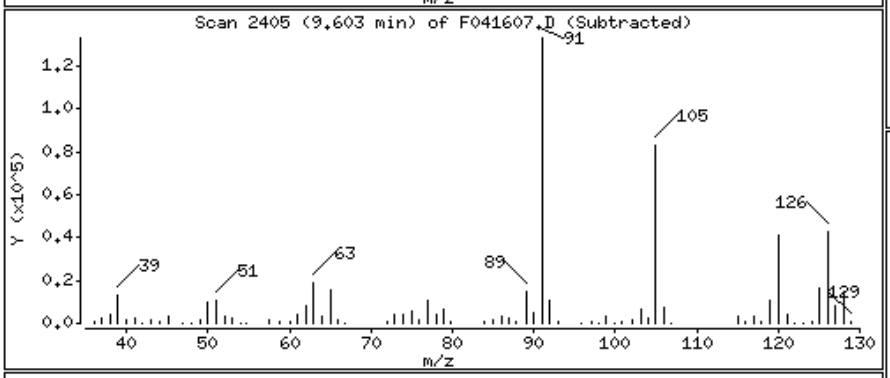
Sample Info: VSTD010;VSTD010;1;6;

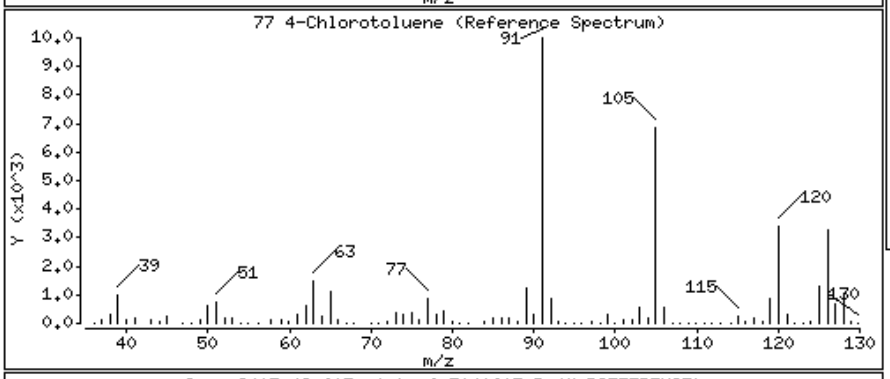
Purge Volume: 5.0 Operator: FT

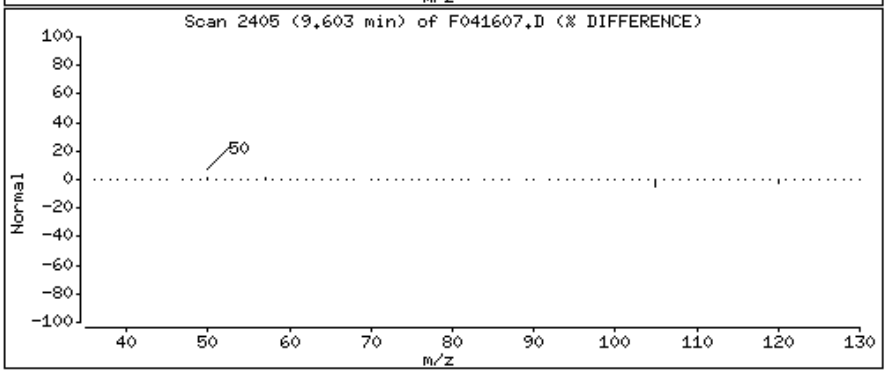
Column phase: DB624 Column diameter: 0.18

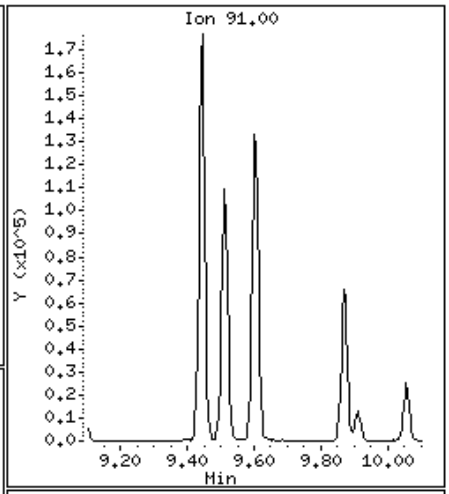
77 4-Chlorotoluene Concentration: 10.65 ug/l

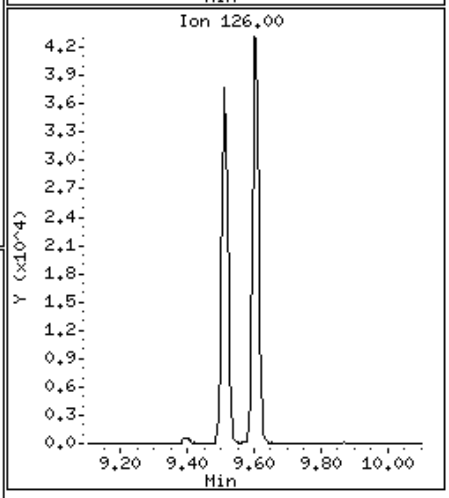












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 70

Date : 16-APR-2024 13:26

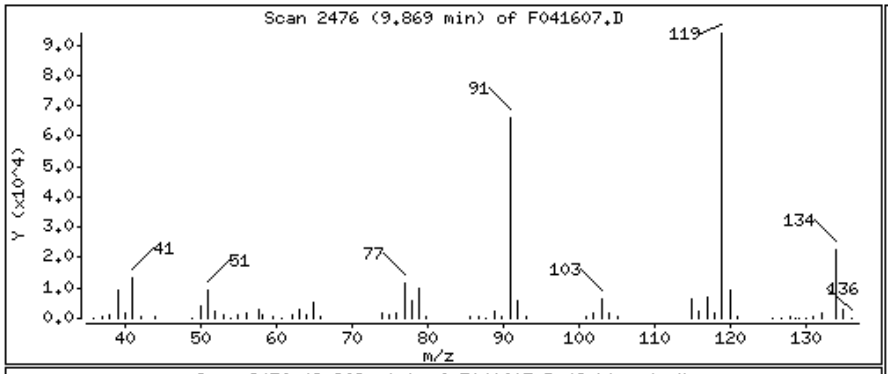
Client ID: VSTD010 Instrument: voa11.i

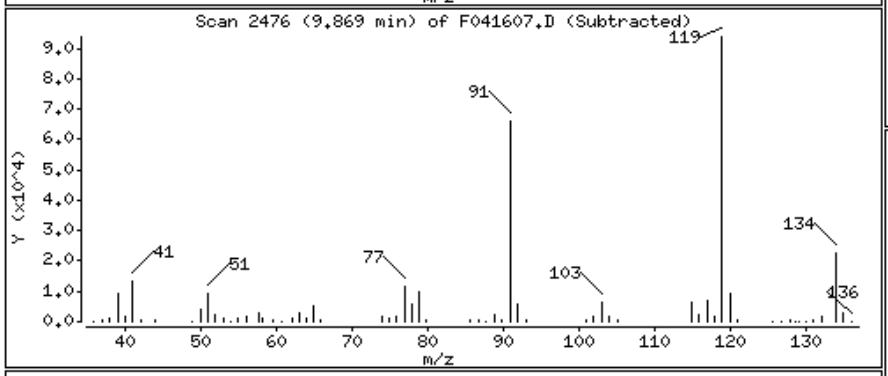
Sample Info: VSTD010;VSTD010;1;6;

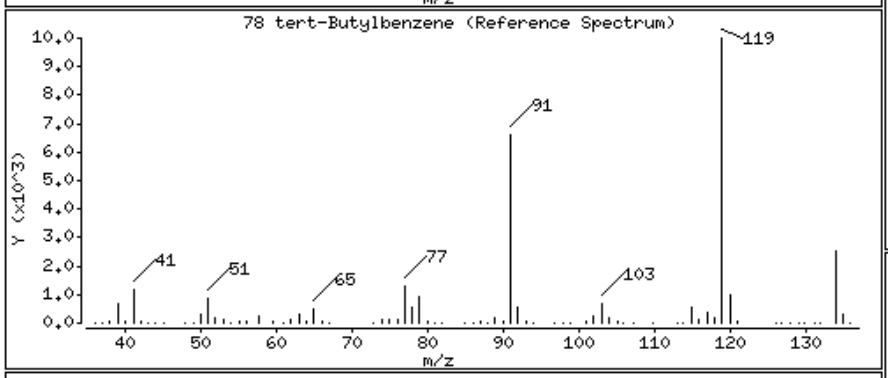
Purge Volume: 5.0 Operator: FT

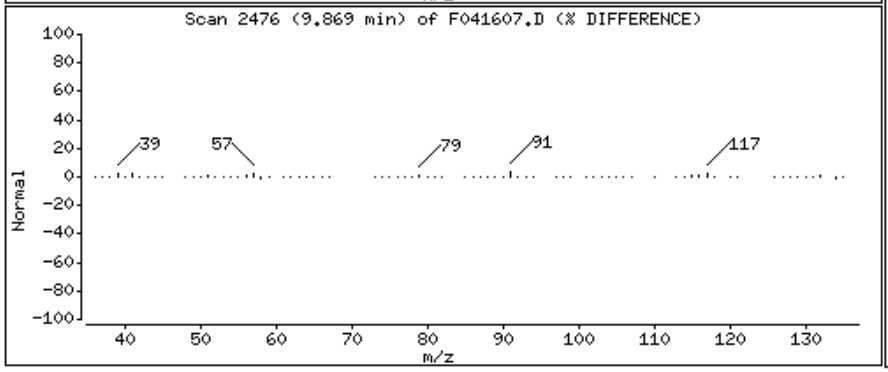
Column phase: DB624 Column diameter: 0.18

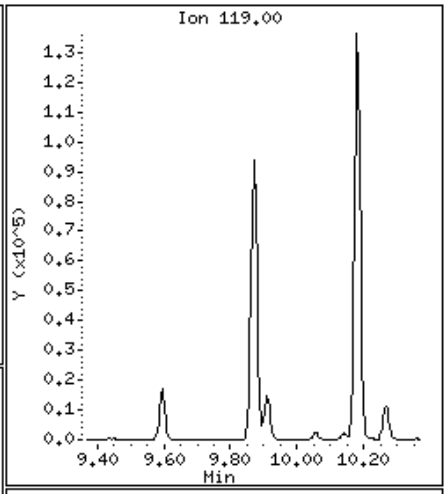
78 tert-Butylbenzene Concentration: 9.61 ug/l

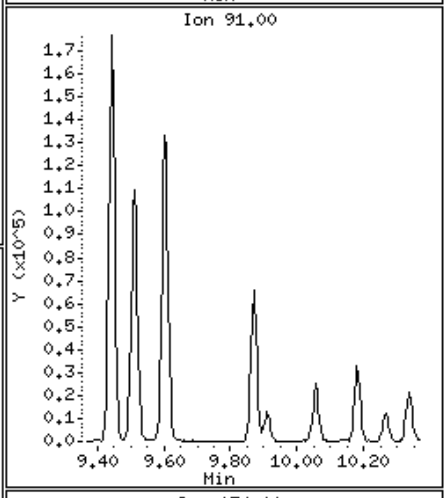


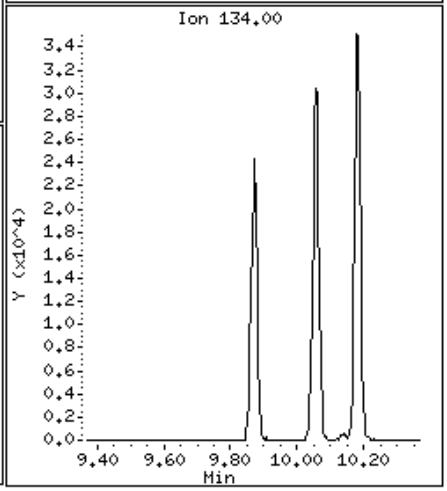












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 71

Date : 16-APR-2024 13:26

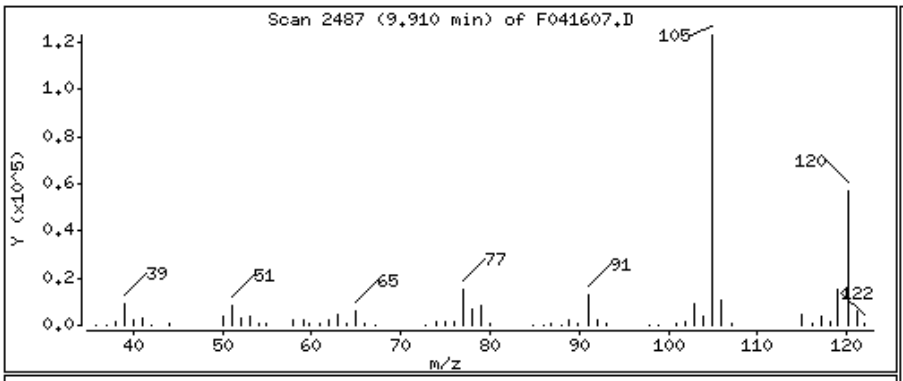
Client ID: VSTD010 Instrument: voa11.i

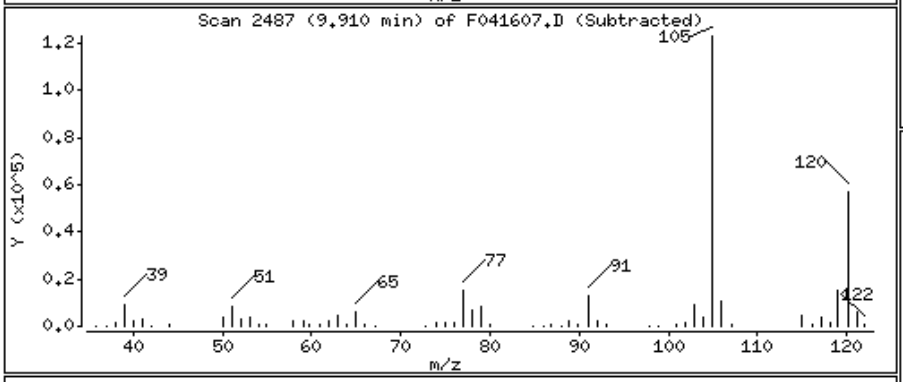
Sample Info: VSTD010;VSTD010;1;6;

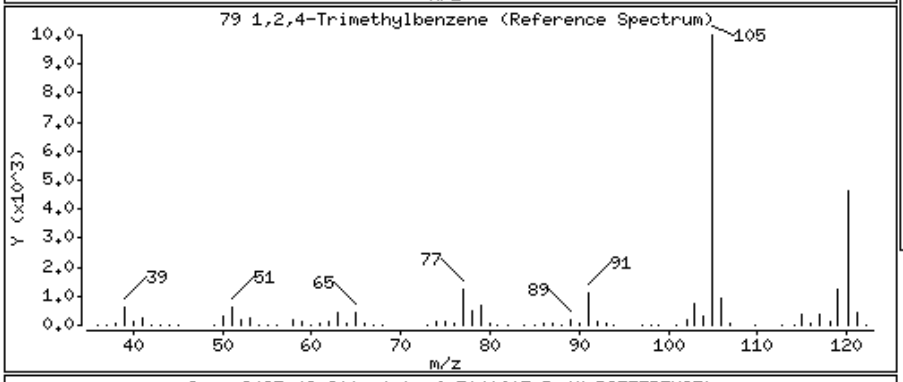
Purge Volume: 5.0 Operator: FT

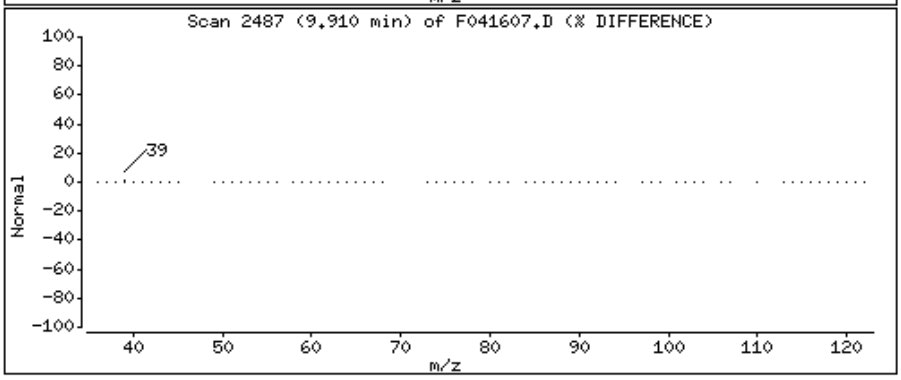
Column phase: DB624 Column diameter: 0.18

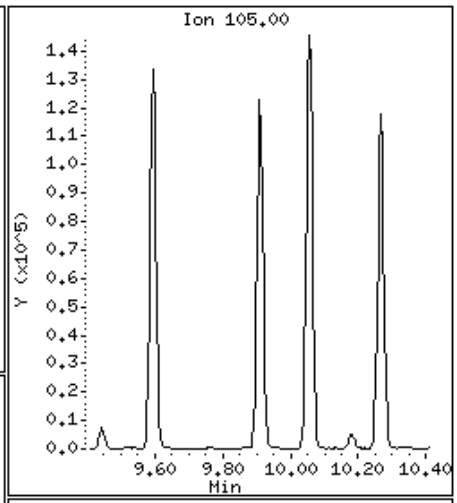
79 1,2,4-Trimethylbenzene Concentration: 9.84 ug/l

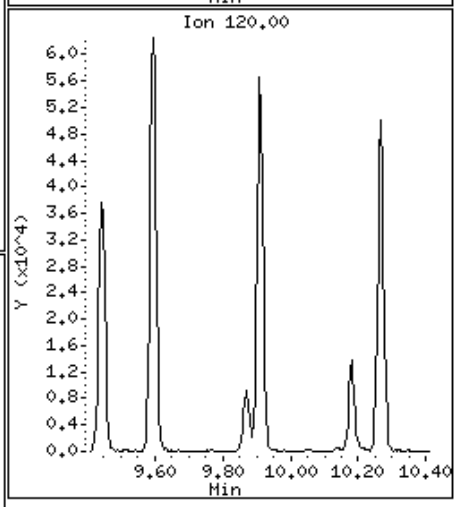












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 72

Date : 16-APR-2024 13:26

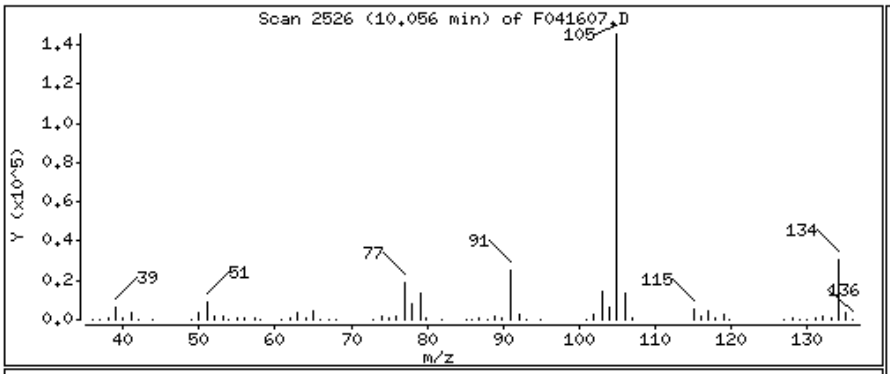
Client ID: VSTD010 Instrument: voa11.i

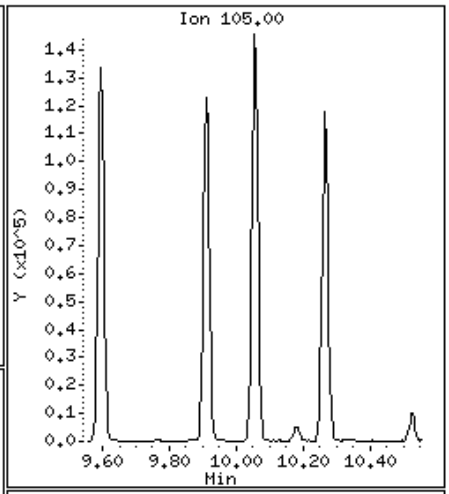
Sample Info: VSTD010;VSTD010;1;6;

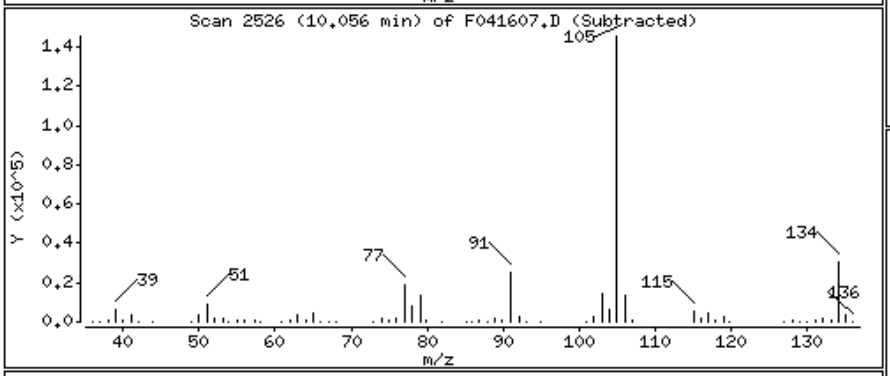
Purge Volume: 5.0 Operator: FT

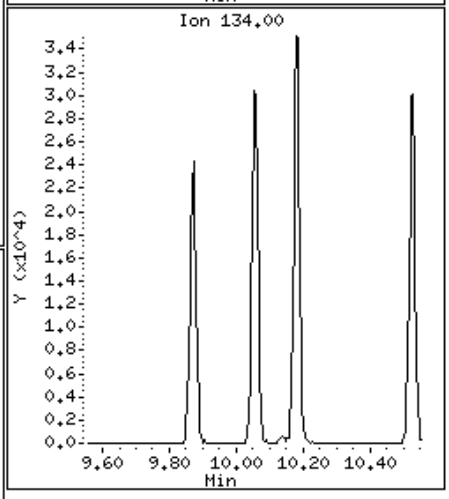
Column phase: DB624 Column diameter: 0.18

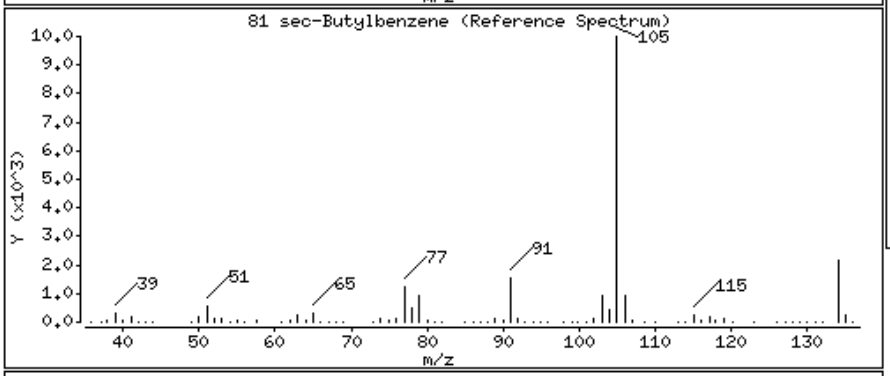
81 sec-Butylbenzene Concentration: 9.94 ug/l

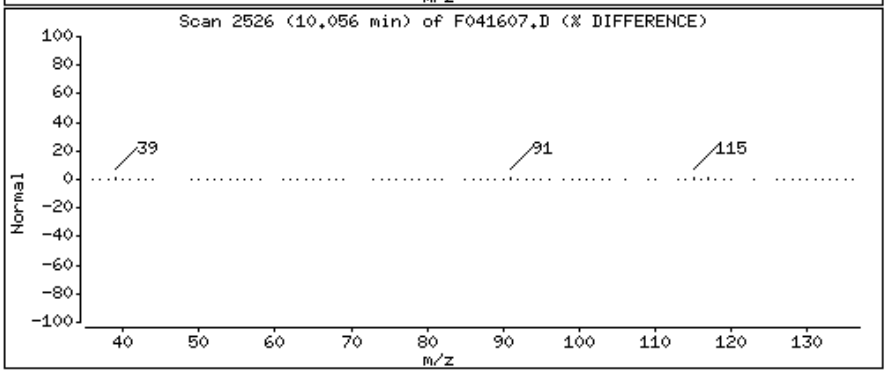












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 73

Date : 16-APR-2024 13:26

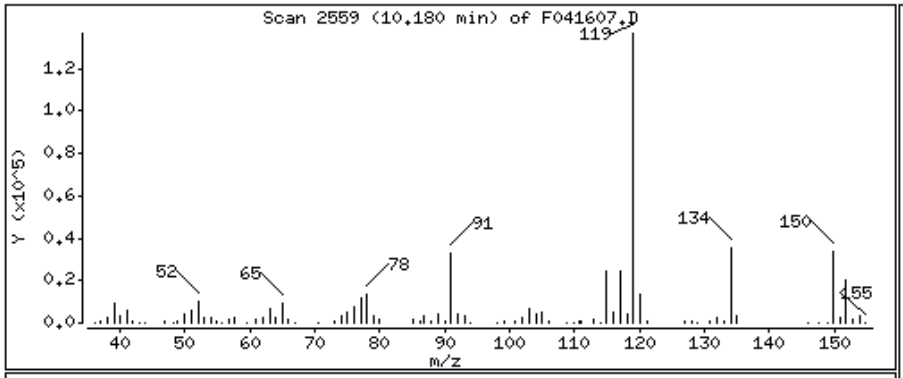
Client ID: VSTD010 Instrument: voa11.i

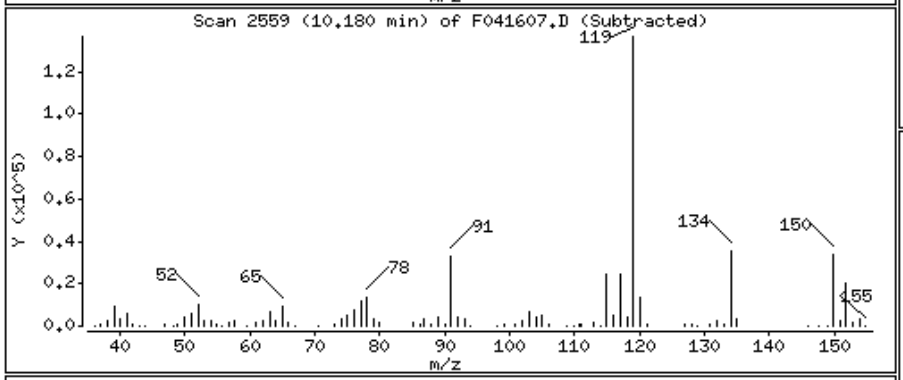
Sample Info: VSTD010;VSTD010;1;6;

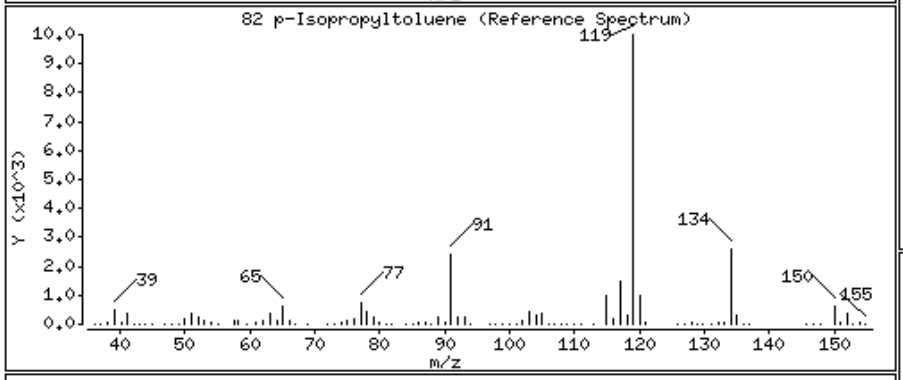
Purge Volume: 5.0 Operator: FT

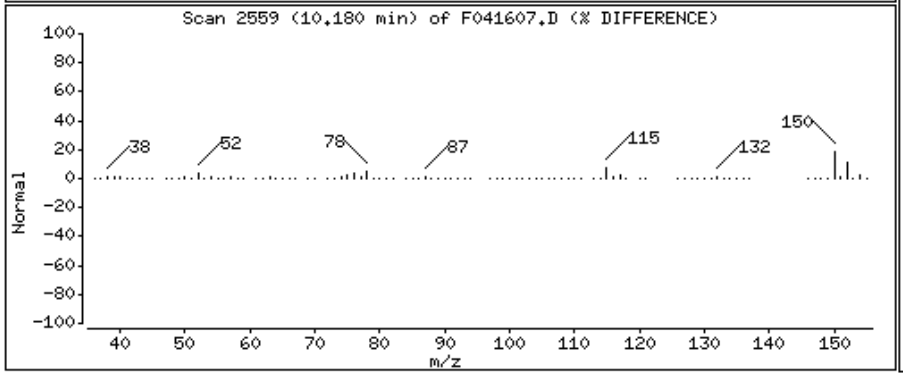
Column phase: DB624 Column diameter: 0.18

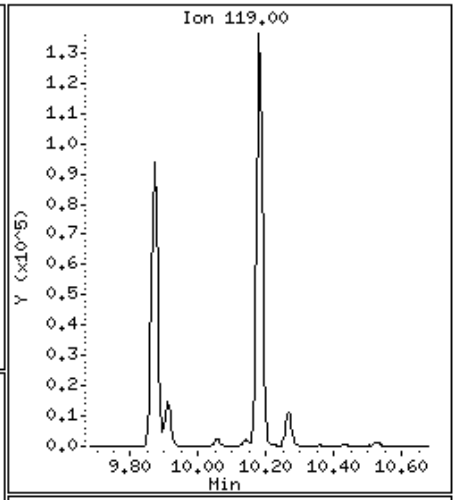
82 p-Isopropyltoluene Concentration: 9.84 ug/l

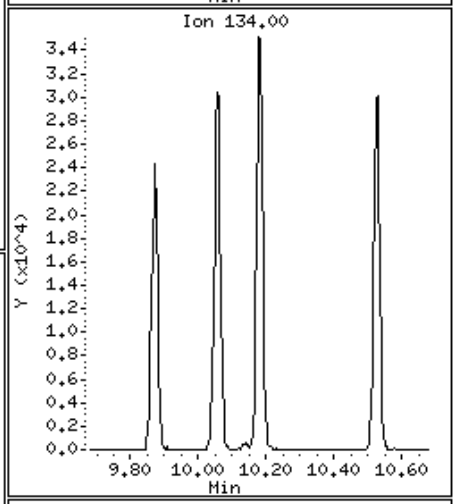


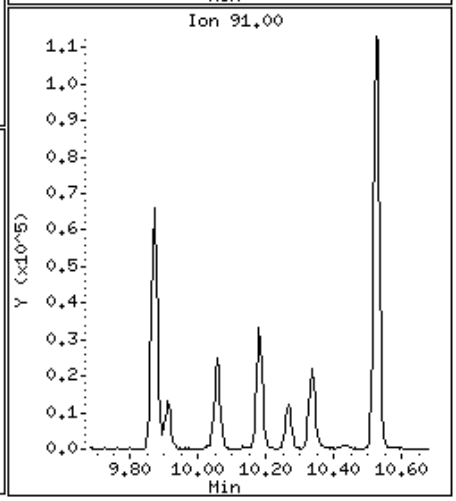












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 74

Date : 16-APR-2024 13:26

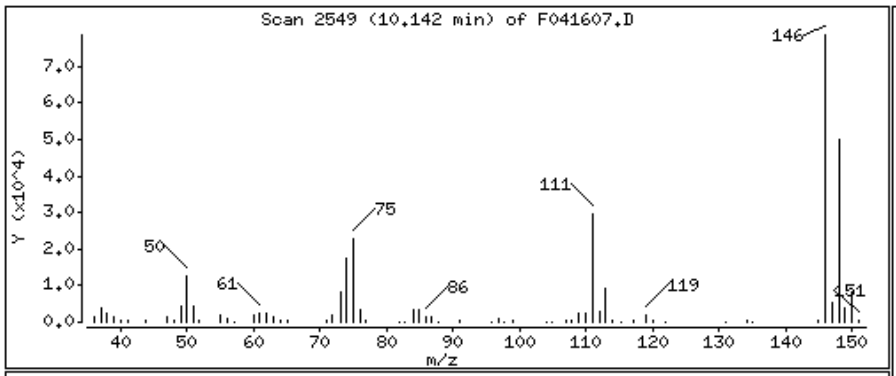
Client ID: VSTD010 Instrument: voa11.i

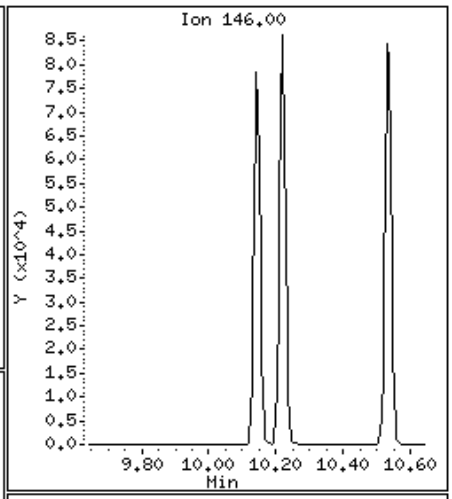
Sample Info: VSTD010;VSTD010;1;6;

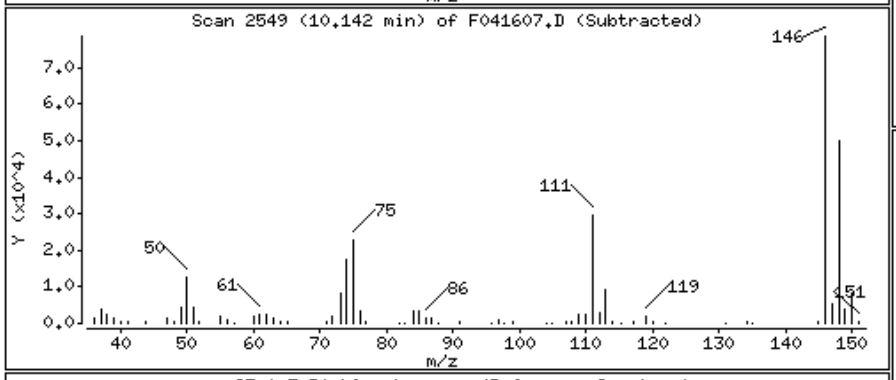
Purge Volume: 5.0 Operator: FT

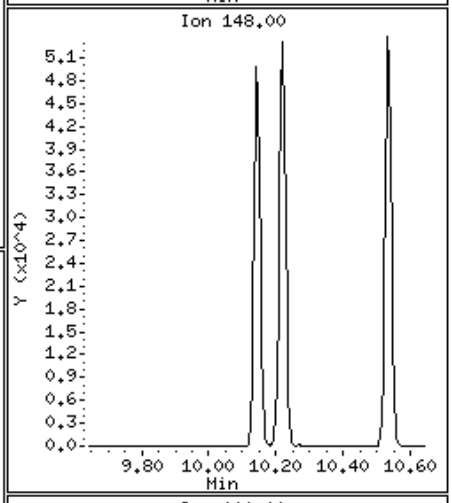
Column phase: DB624 Column diameter: 0.18

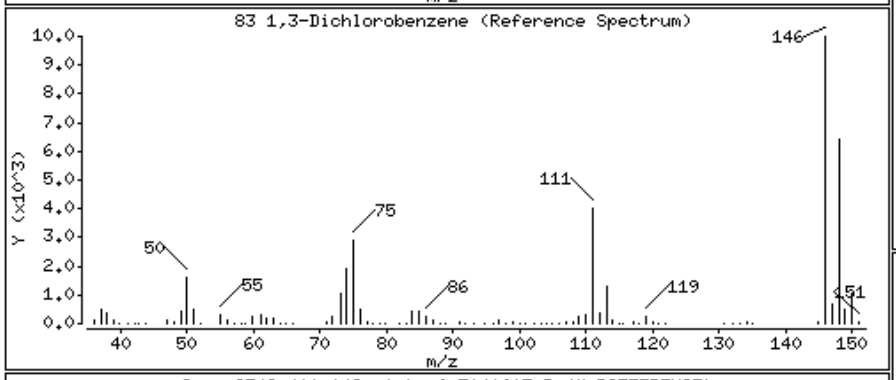
83 1,3-Dichlorobenzene Concentration: 10.35 ug/l

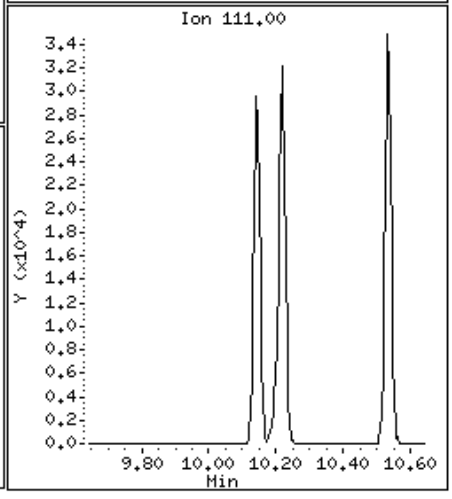


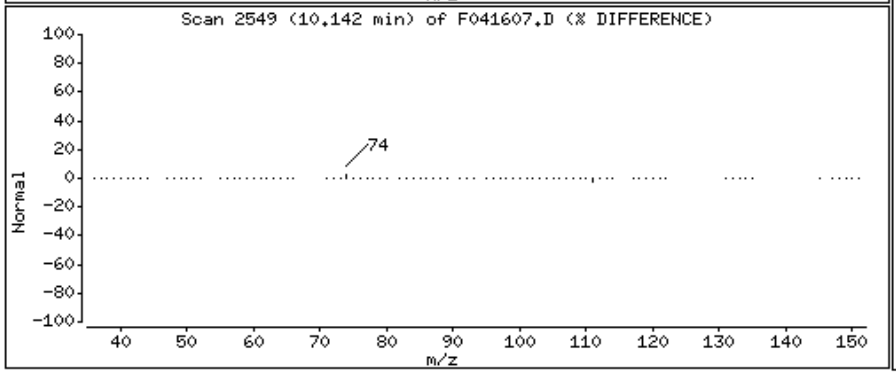












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 75

Date : 16-APR-2024 13:26

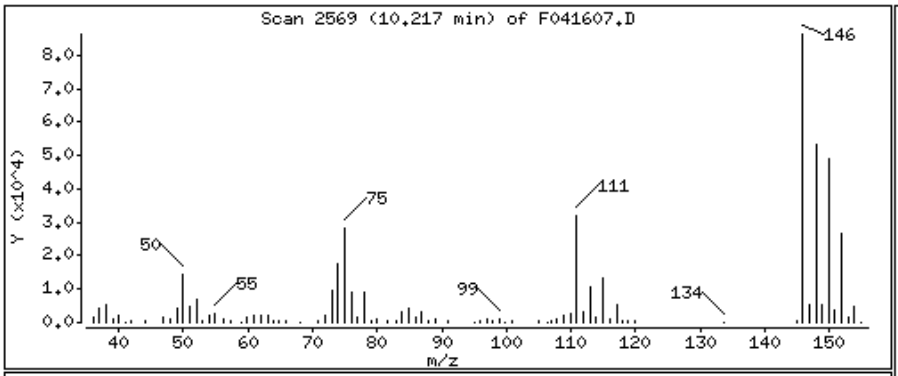
Client ID: VSTD010 Instrument: voa11.i

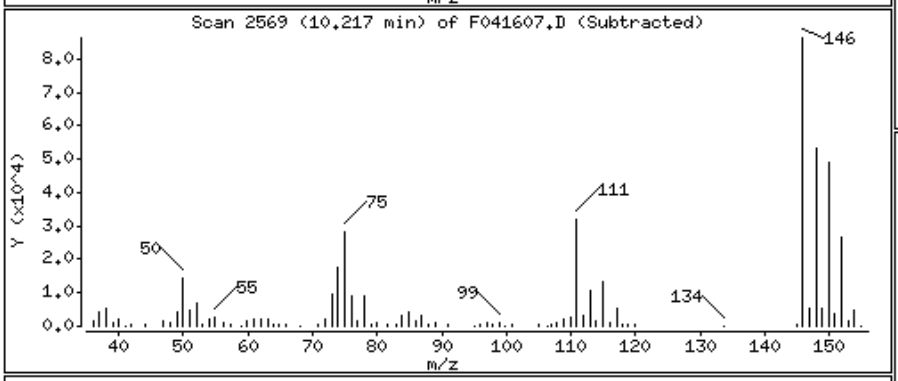
Sample Info: VSTD010;VSTD010;1;6;

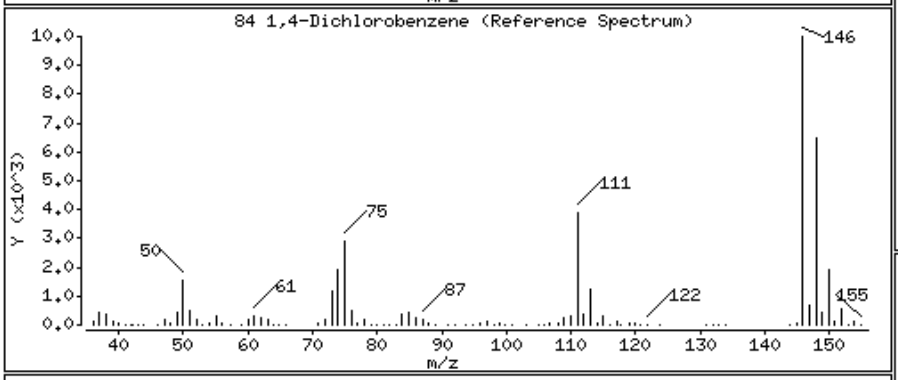
Purge Volume: 5.0 Operator: FT

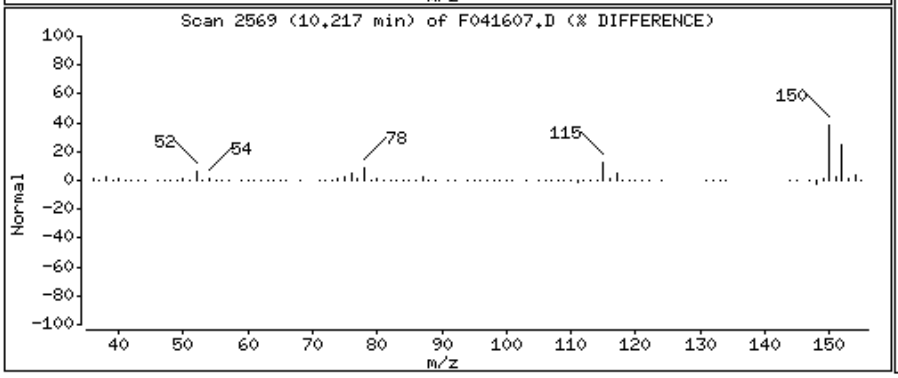
Column phase: DB624 Column diameter: 0.18

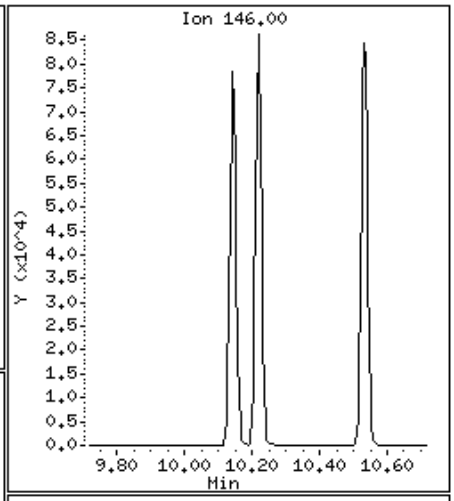
84 1,4-Dichlorobenzene Concentration: 9.79 ug/l

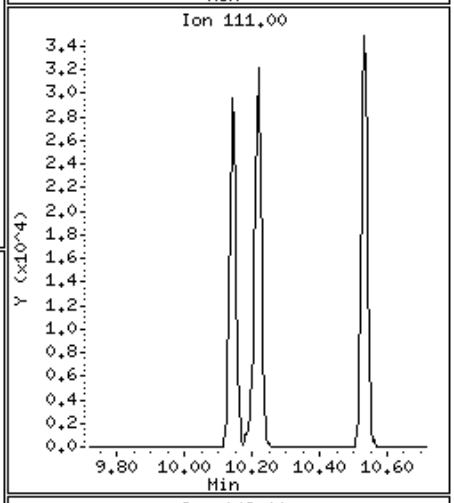


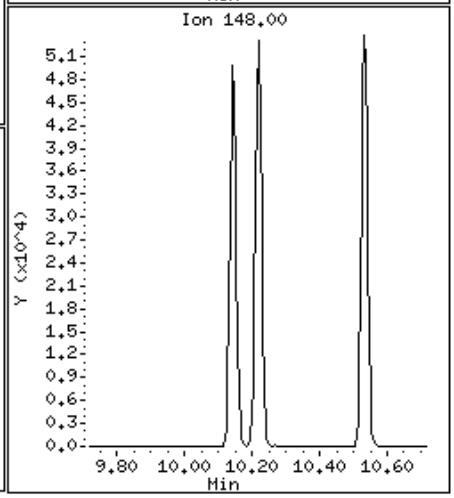












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 76

Date : 16-APR-2024 13:26

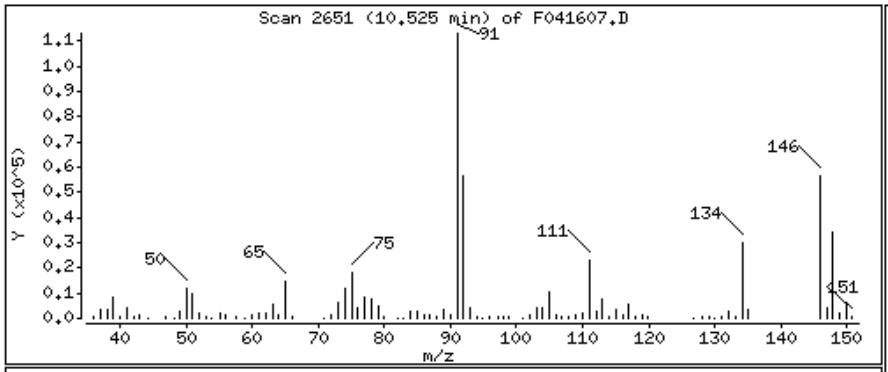
Client ID: VSTD010 Instrument: voa11.i

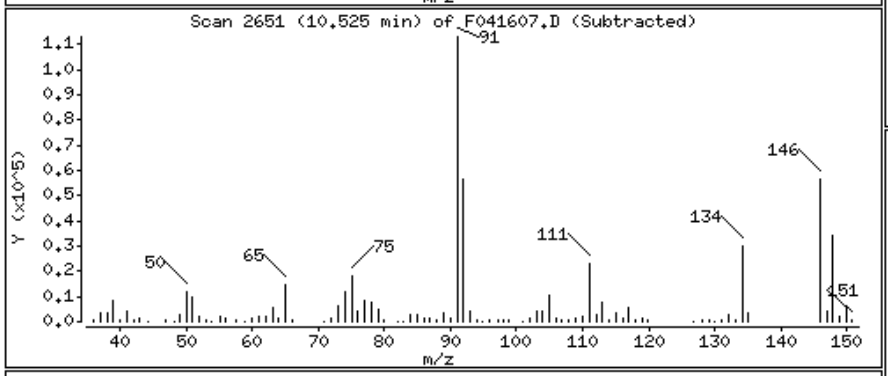
Sample Info: VSTD010;VSTD010;1;6;

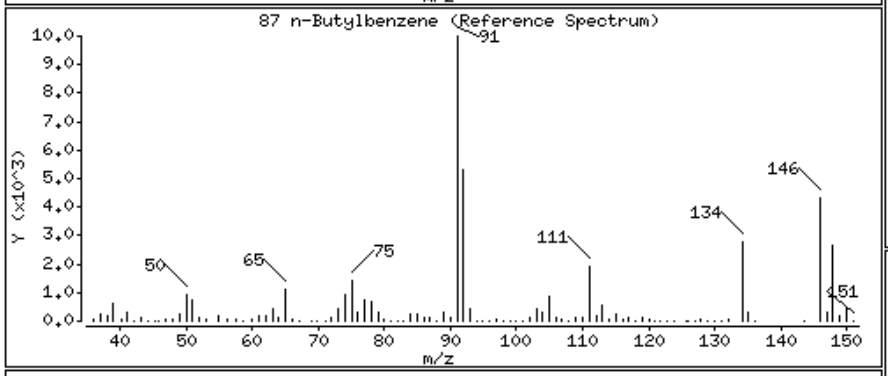
Purge Volume: 5.0 Operator: FT

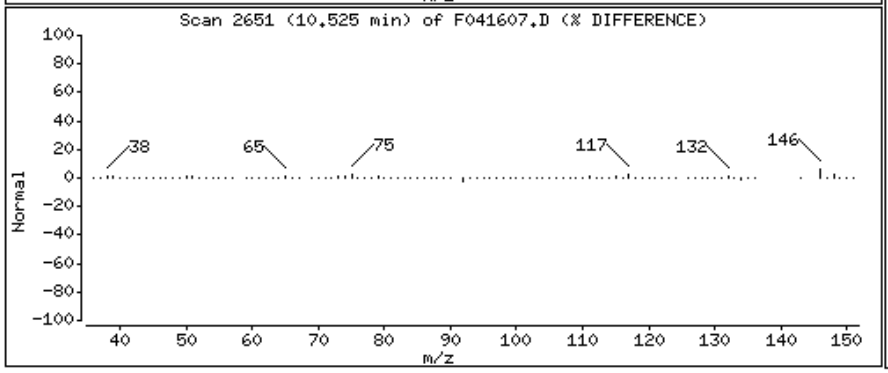
Column phase: DB624 Column diameter: 0.18

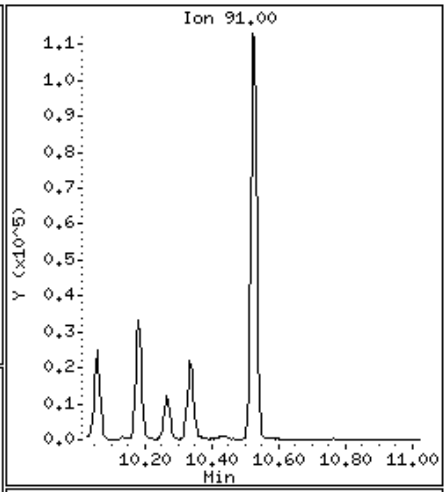
87 n-Butylbenzene Concentration: 9.92 ug/l

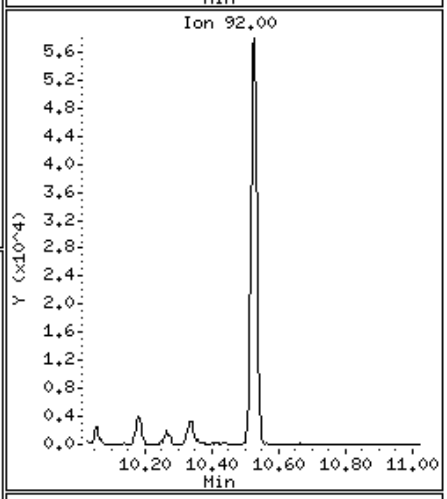


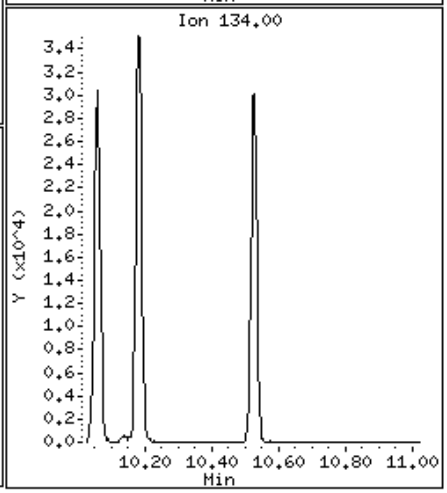












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 77

Date : 16-APR-2024 13:26

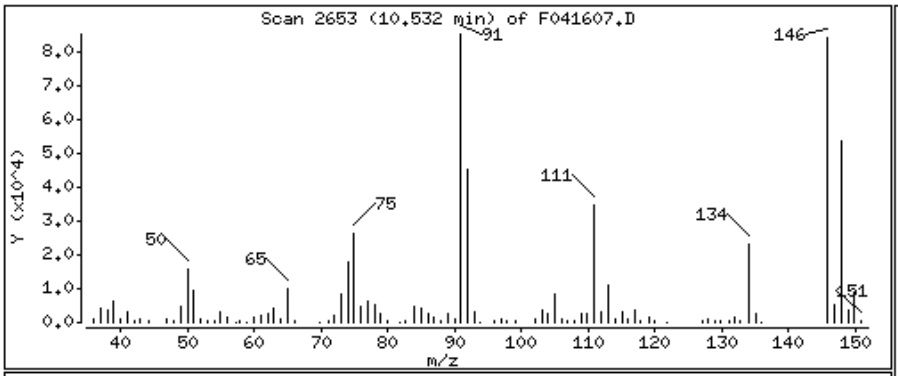
Client ID: VSTD010 Instrument: voa11.i

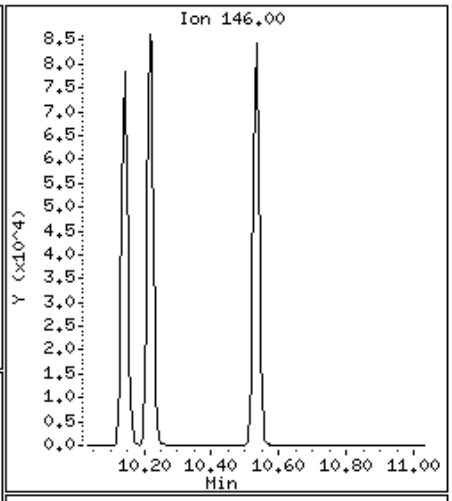
Sample Info: VSTD010;VSTD010;1;6;

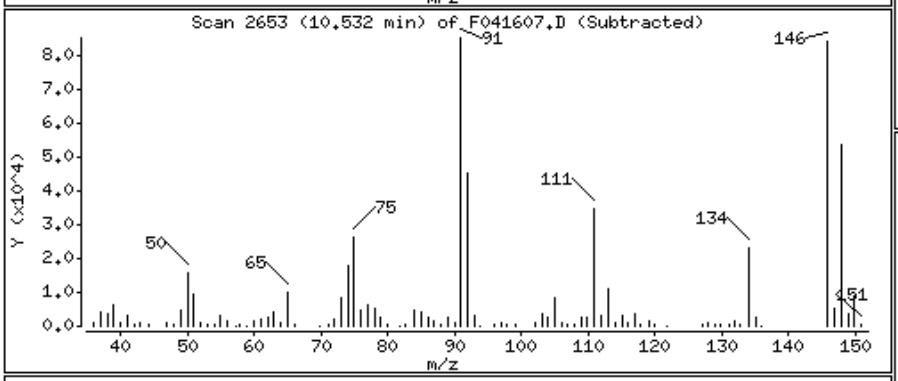
Purge Volume: 5.0 Operator: FT

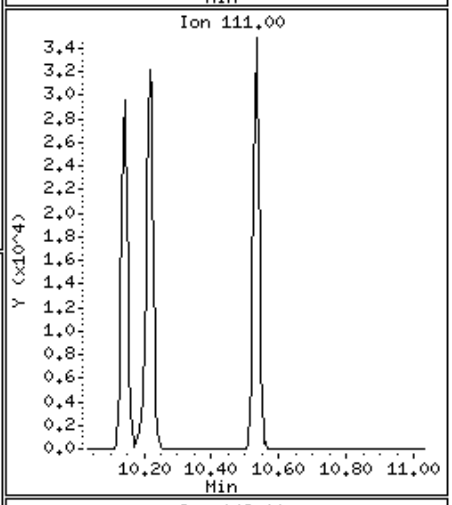
Column phase: DB624 Column diameter: 0.18

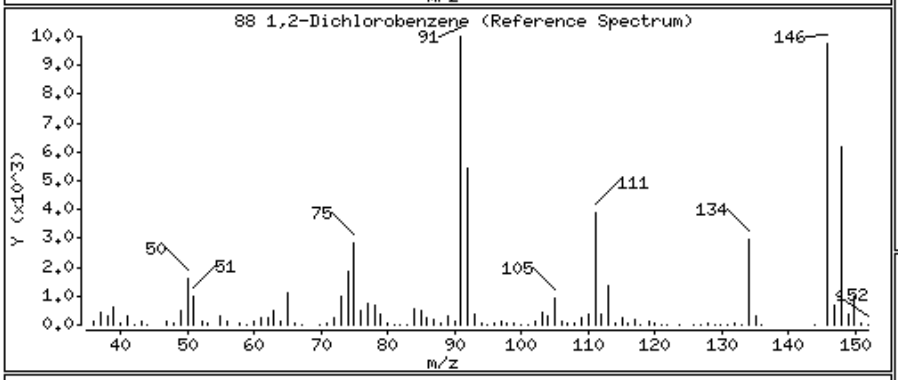
88 1,2-Dichlorobenzene Concentration: 10.92 ug/l

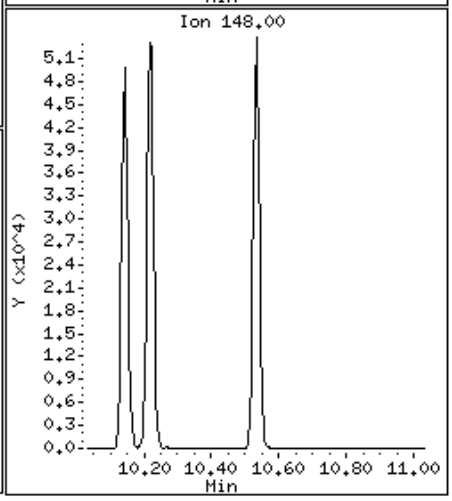


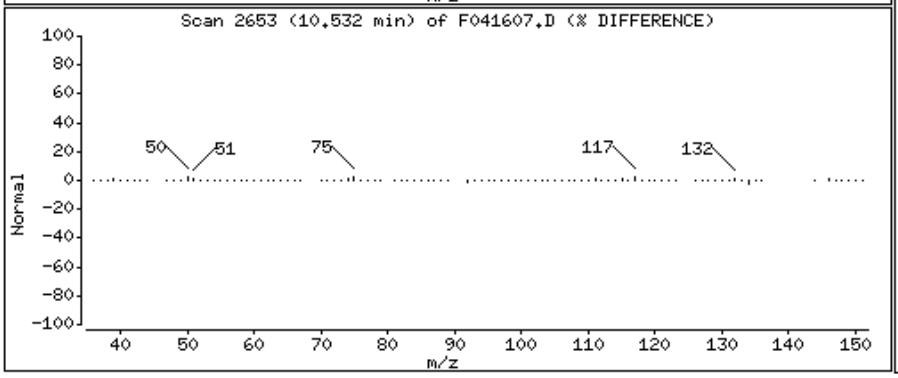












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

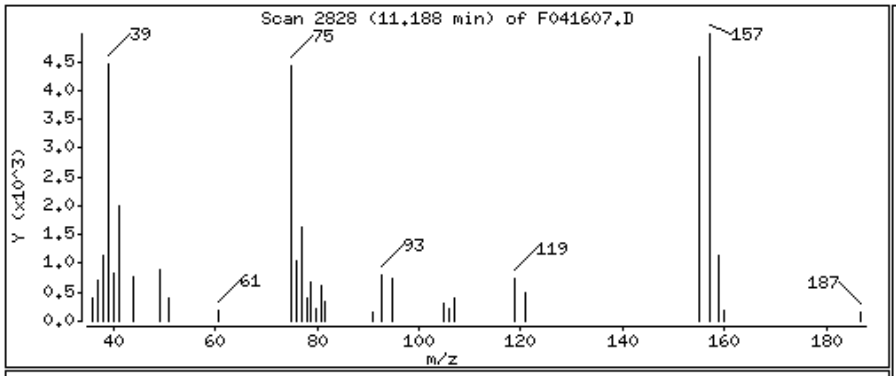
Operator: FT

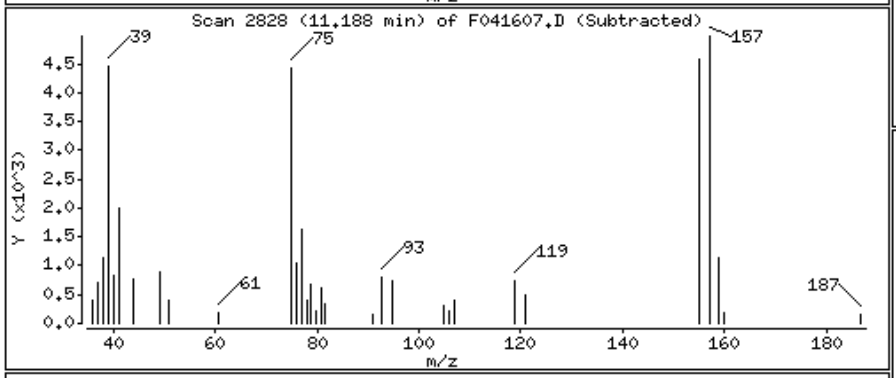
Column phase: DB624

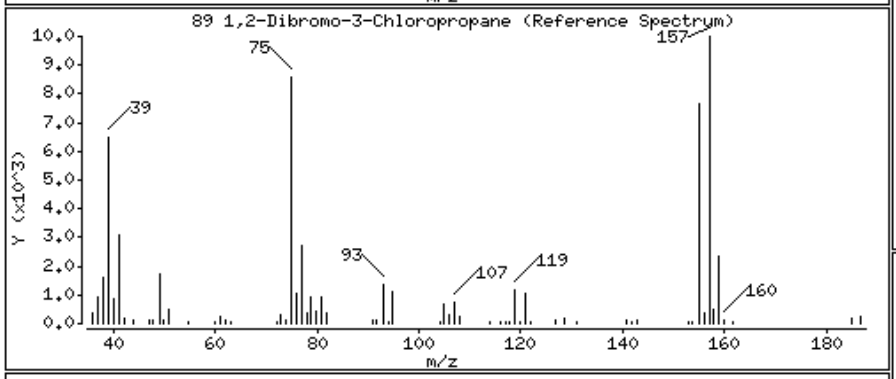
Column diameter: 0.18

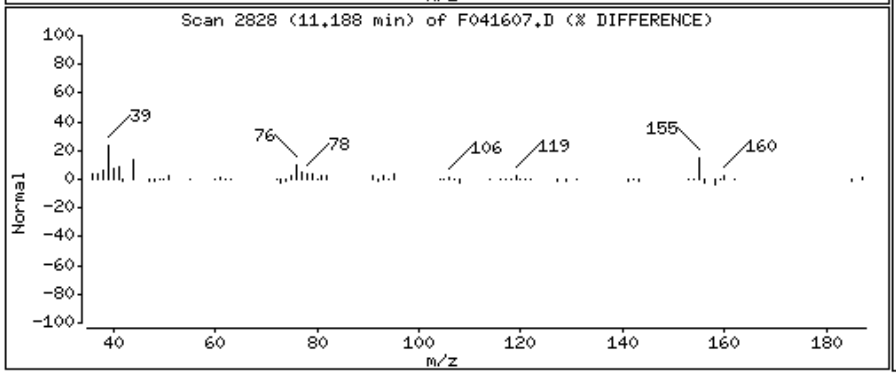
89 1,2-Dibromo-3-Chloropropane

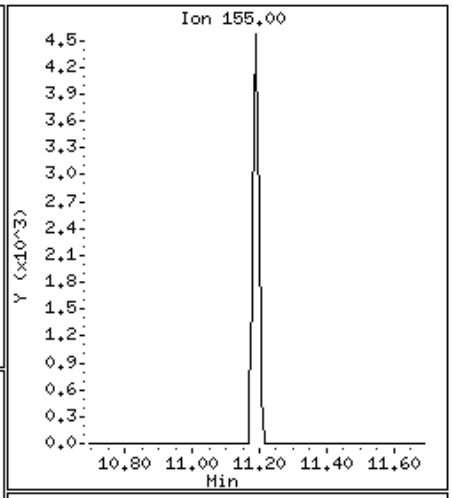
Concentration: 9.16 ug/l

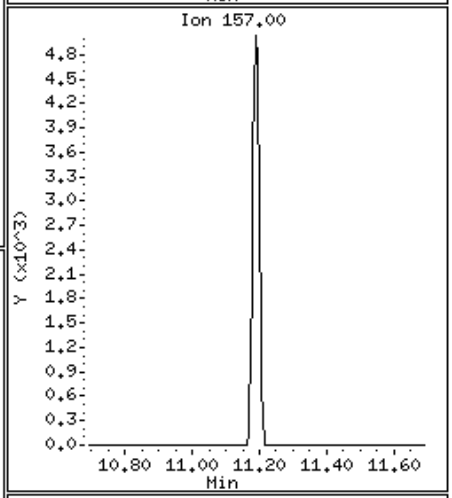


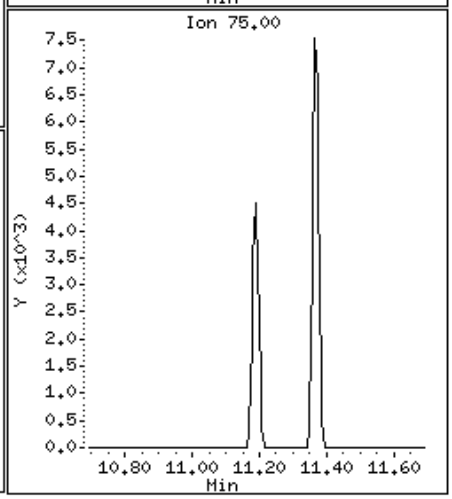












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 79

Date : 16-APR-2024 13:26

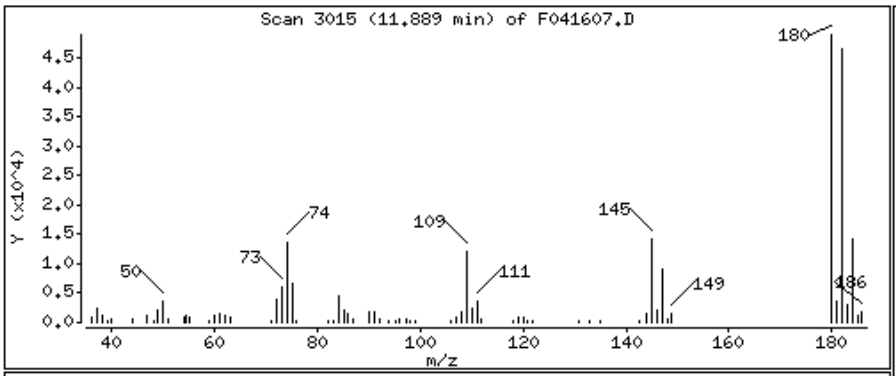
Client ID: VSTD010 Instrument: voa11.i

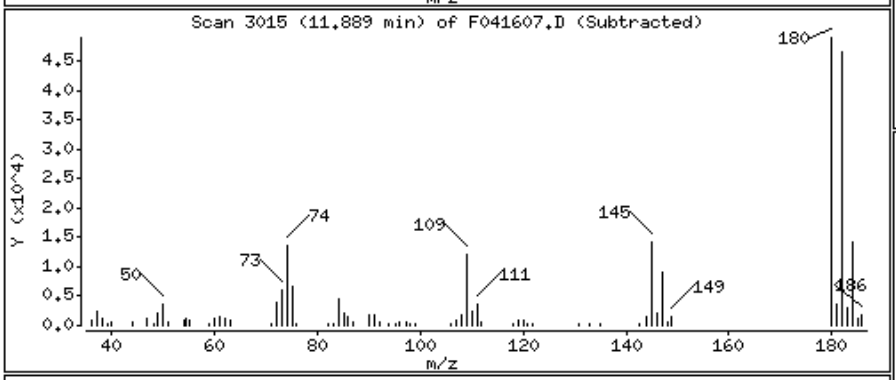
Sample Info: VSTD010;VSTD010;1;6;

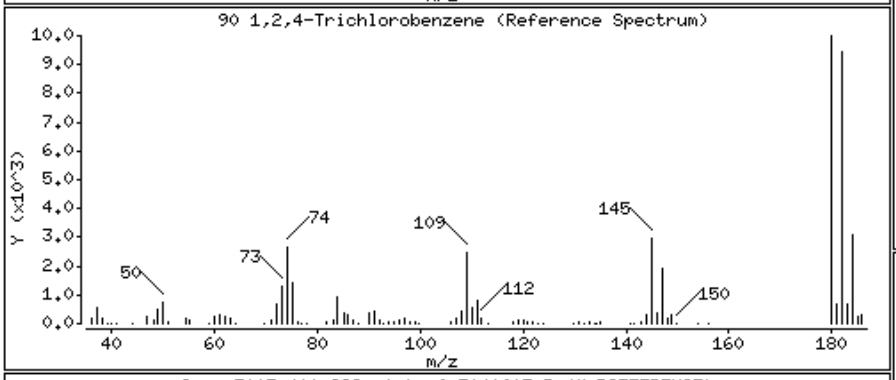
Purge Volume: 5.0 Operator: FT

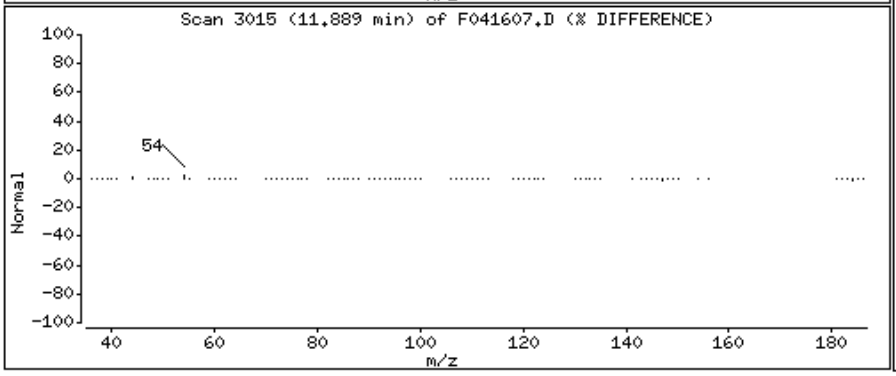
Column phase: DB624 Column diameter: 0.18

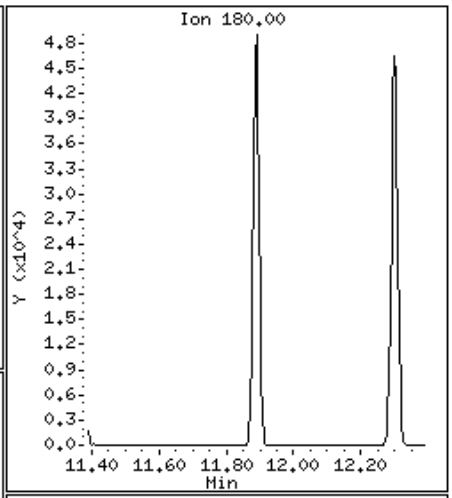
90 1,2,4-Trichlorobenzene Concentration: 10.03 ug/l

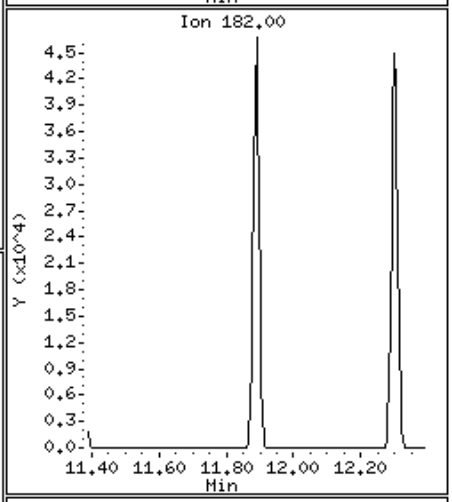


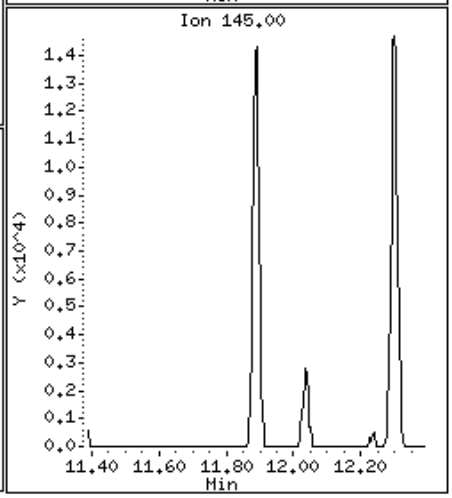












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 80

Date : 16-APR-2024 13:26

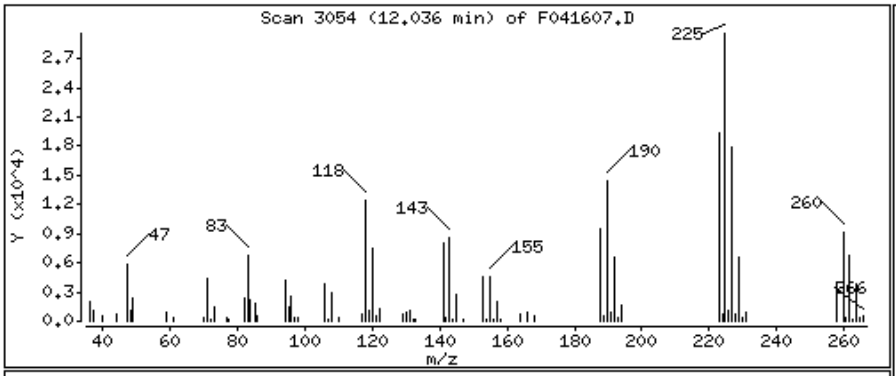
Client ID: VSTD010 Instrument: voa11.i

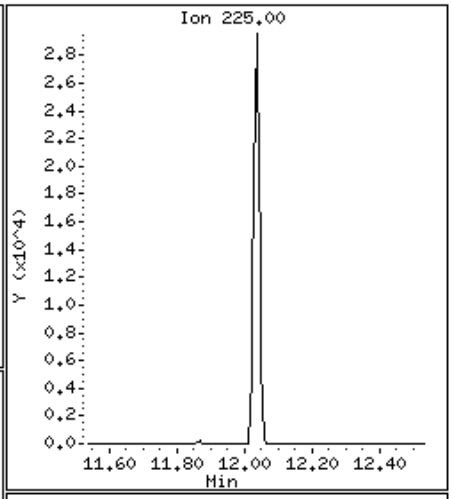
Sample Info: VSTD010;VSTD010;1;6;

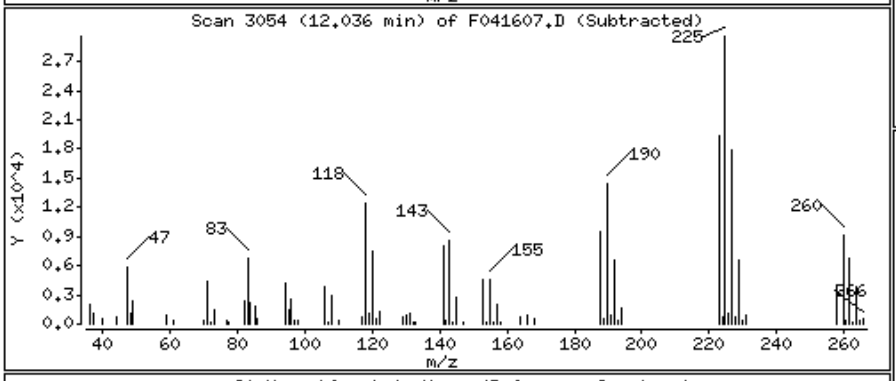
Purge Volume: 5.0 Operator: FT

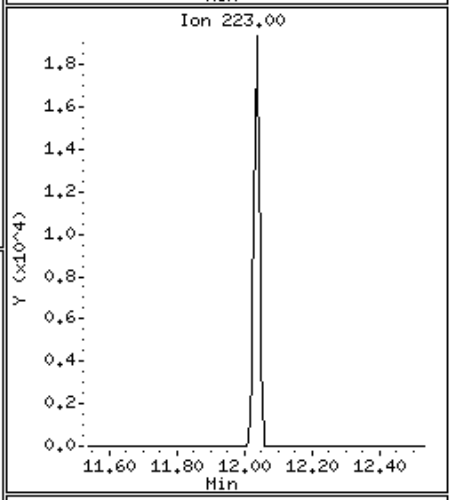
Column phase: DB624 Column diameter: 0.18

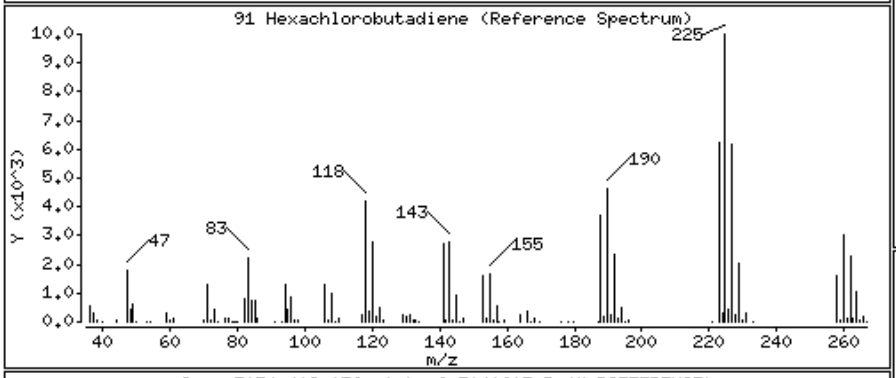
91 Hexachlorobutadiene Concentration: 10.91 ug/l

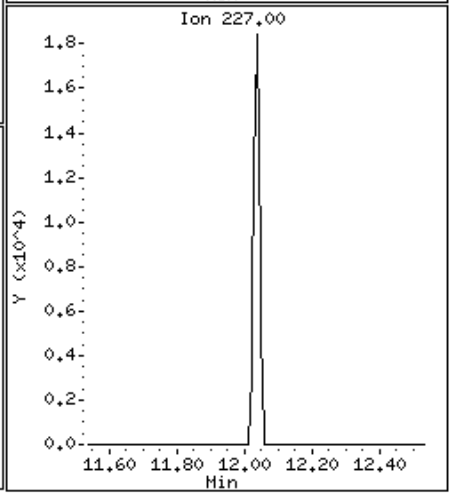


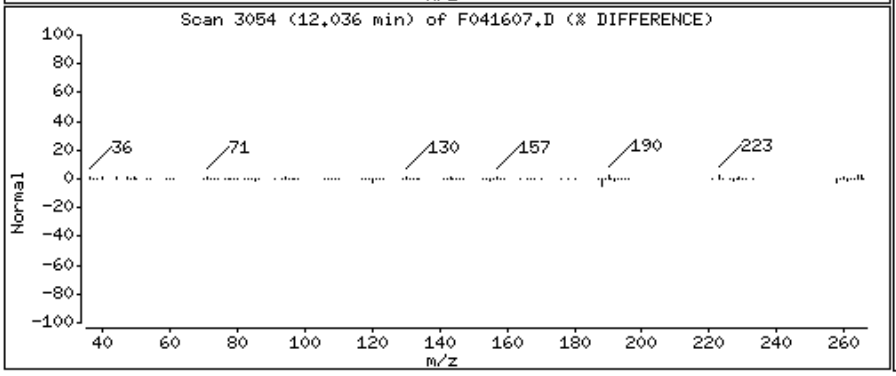












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 81

Date : 16-APR-2024 13:26

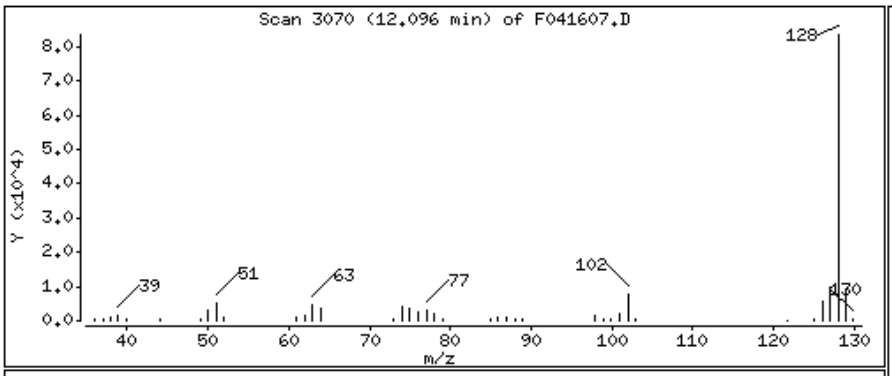
Client ID: VSTD010 Instrument: voa11.i

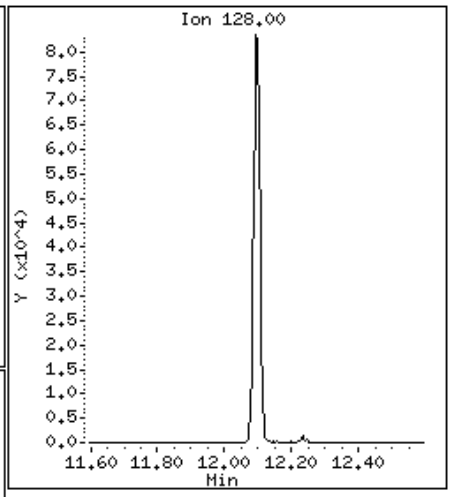
Sample Info: VSTD010;VSTD010;1;6;

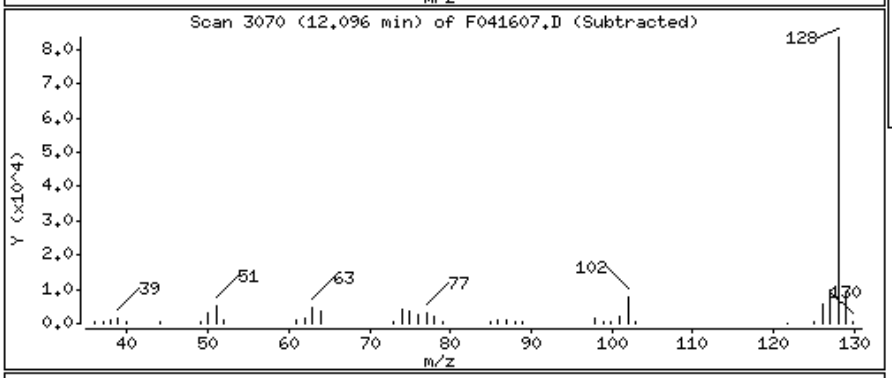
Purge Volume: 5.0 Operator: FT

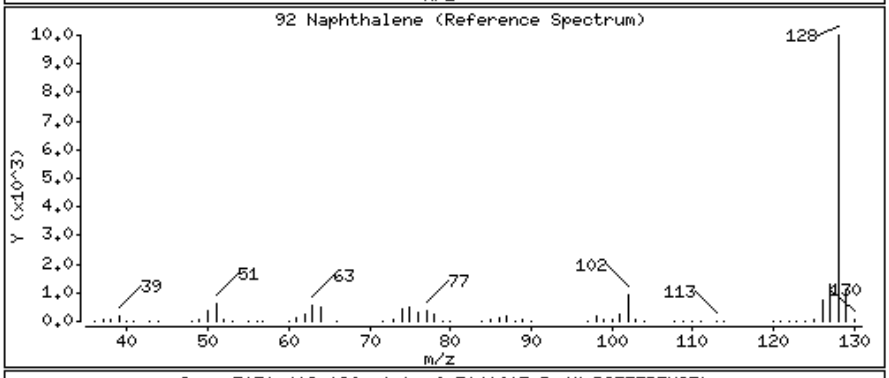
Column phase: DB624 Column diameter: 0.18

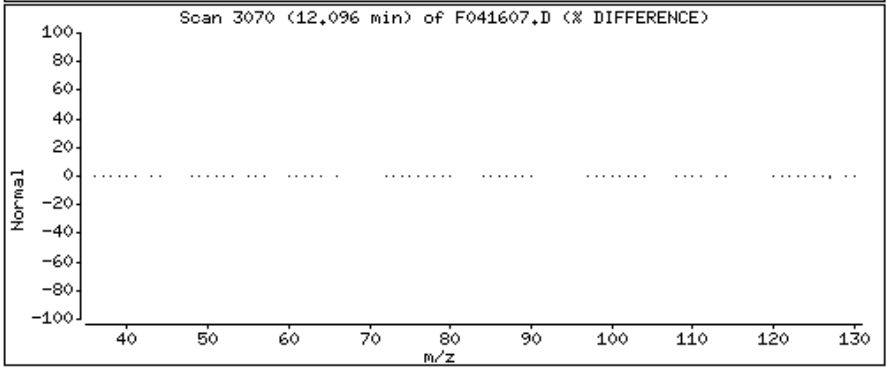
92 Naphthalene Concentration: 8.83 ug/l











Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 82

Date : 16-APR-2024 13:26

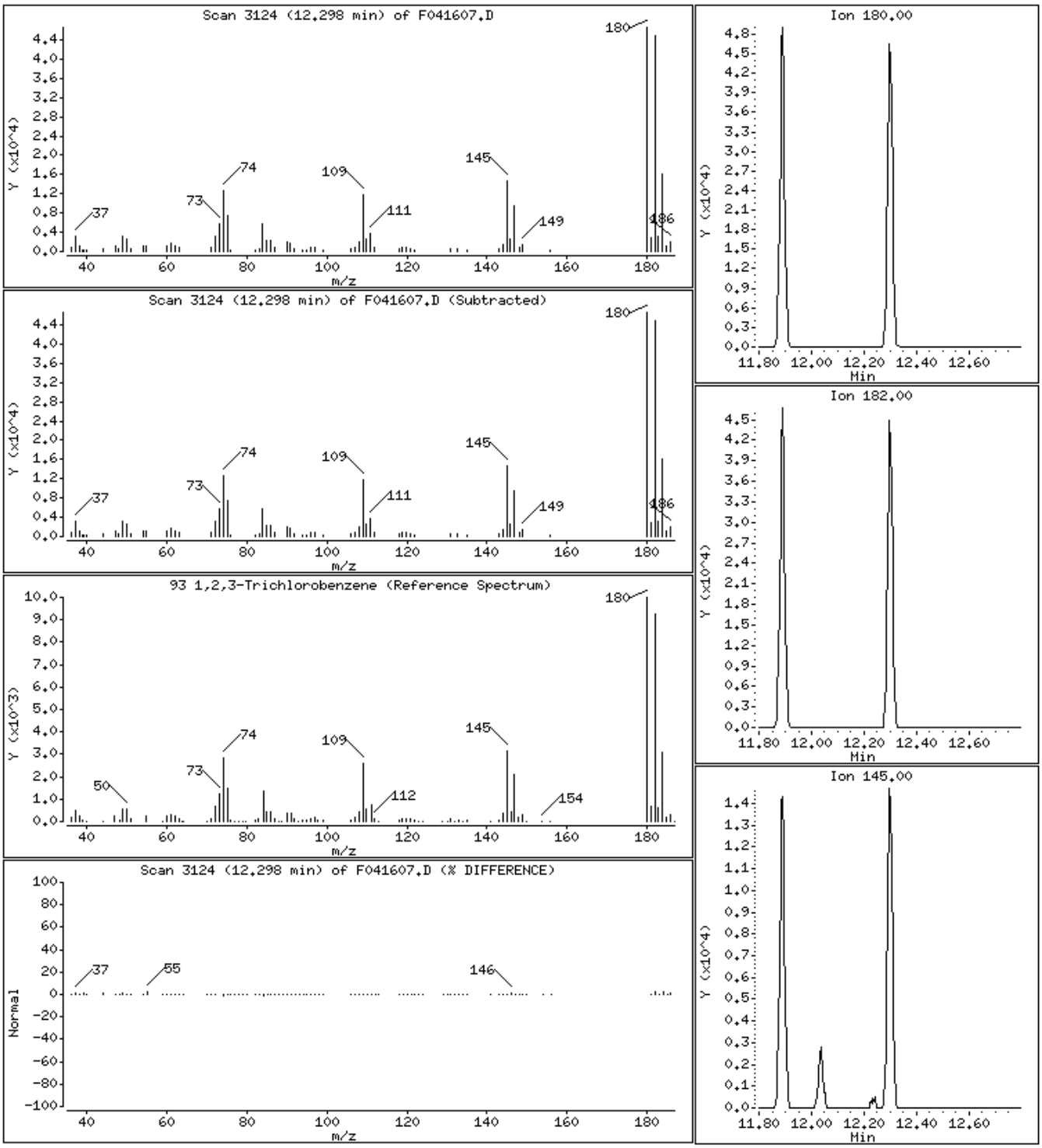
Client ID: VSTD010 Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0 Operator: FT

Column phase: DB624 Column diameter: 0.18

93 1,2,3-Trichlorobenzene Concentration: 10.24 ug/l



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Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

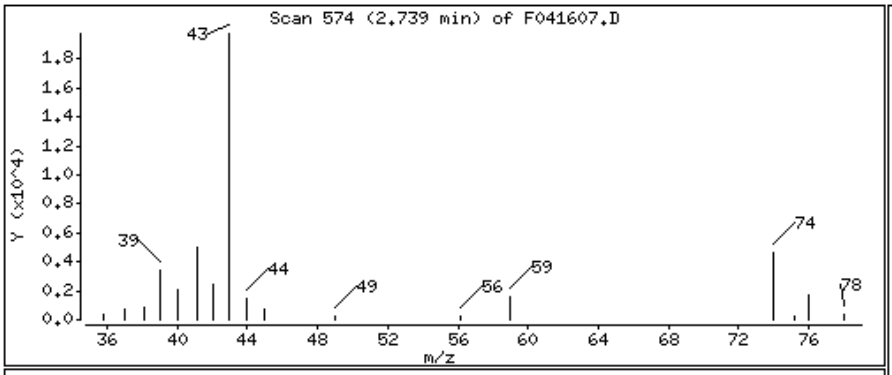
Operator: FT

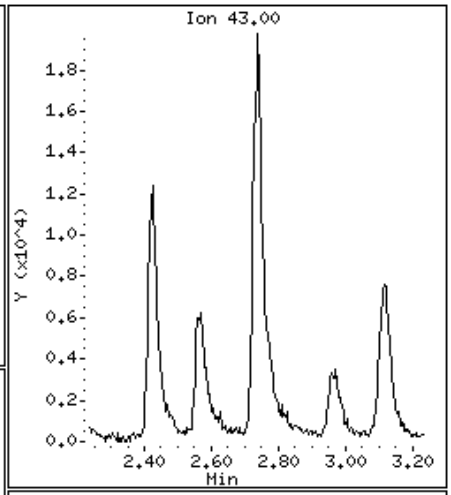
Column phase: DB624

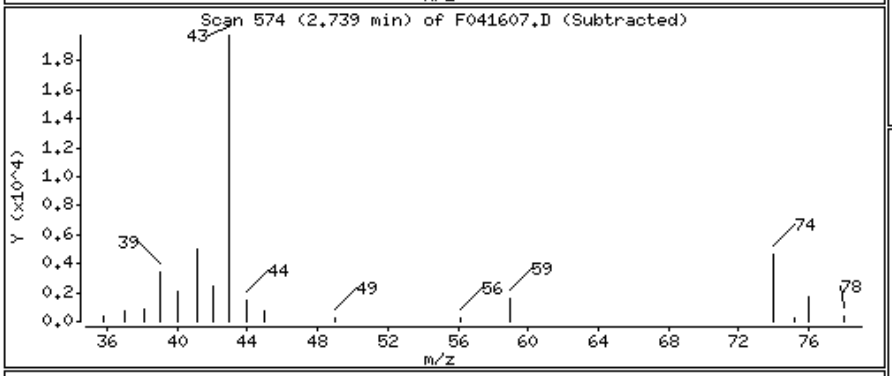
Column diameter: 0.18

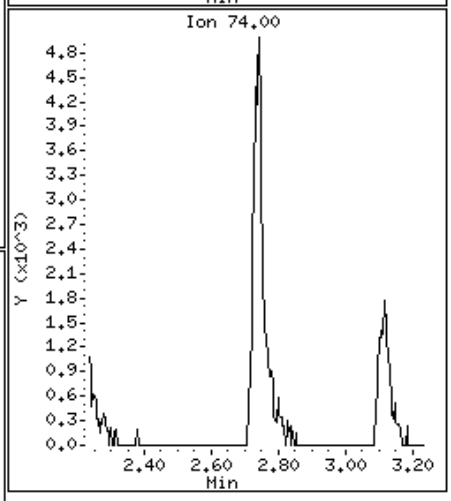
146 Methyl acetate

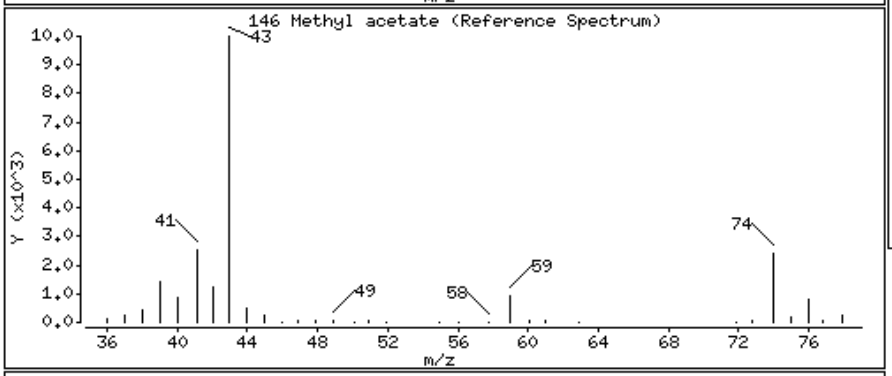
Concentration: 9.22 ug/l

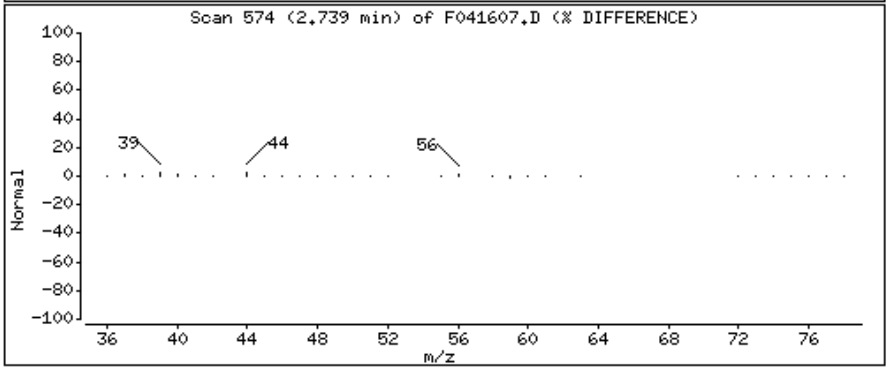












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

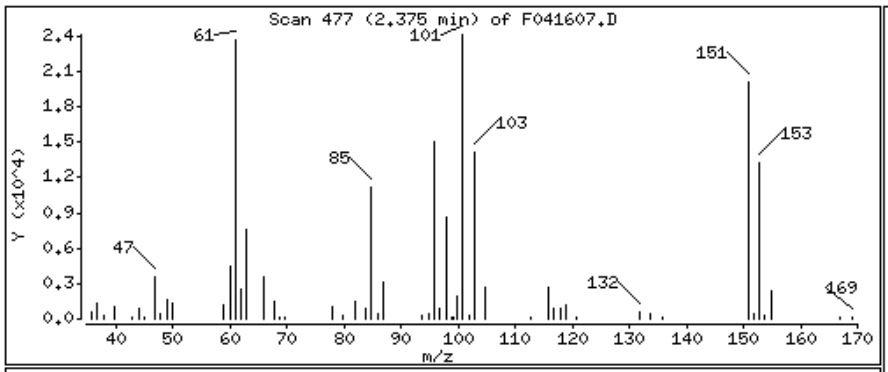
Operator: FT

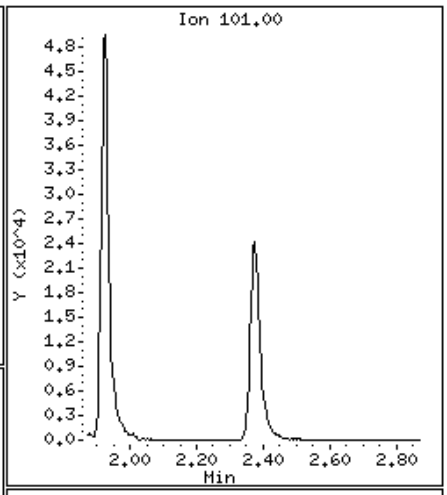
Column phase: DB624

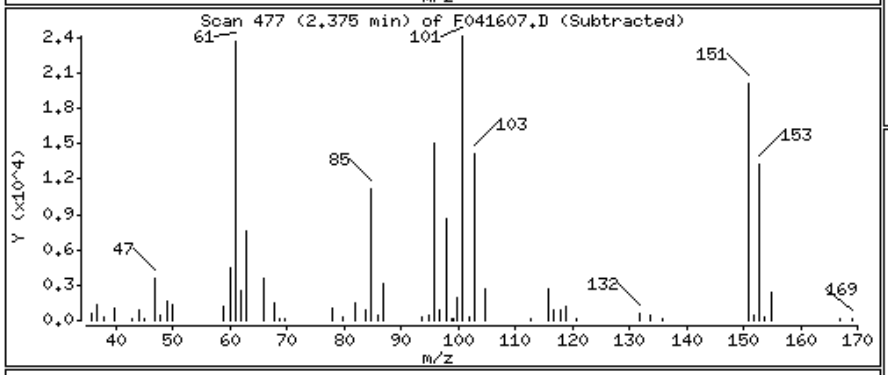
Column diameter: 0.18

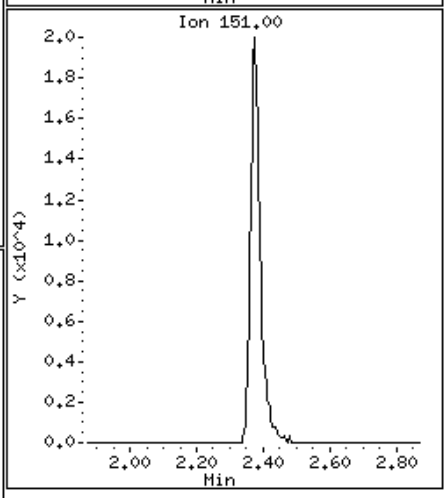
138 Freon TF

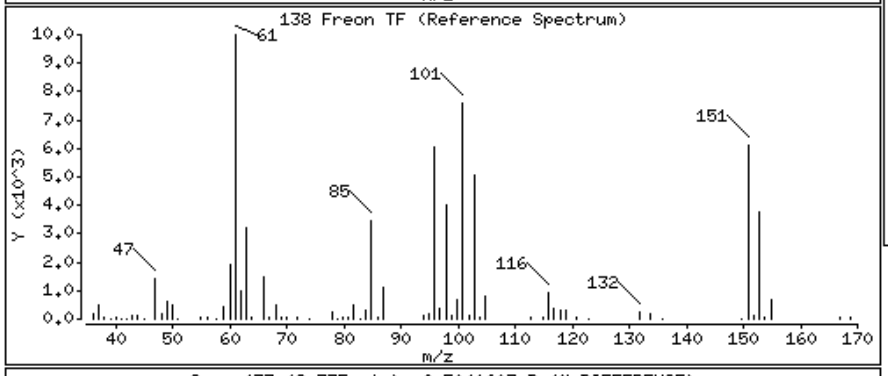
Concentration: 10.44 ug/l

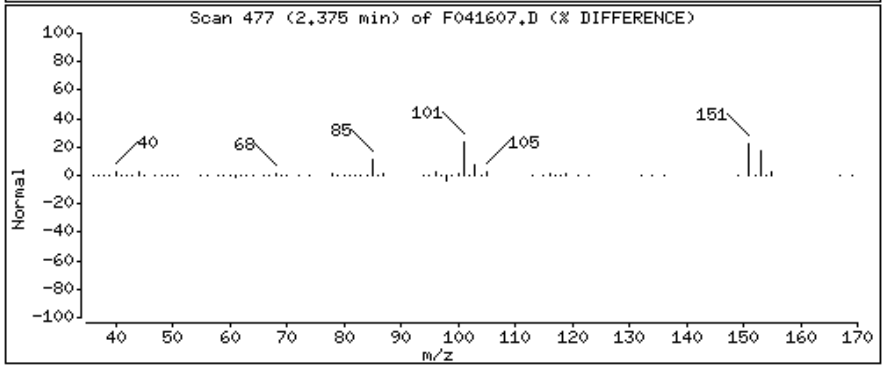












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 85

Date : 16-APR-2024 13:26

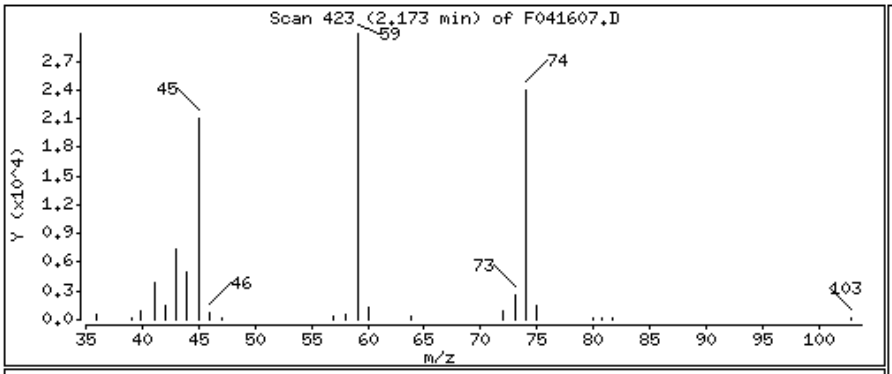
Client ID: VSTD010 Instrument: voa11.i

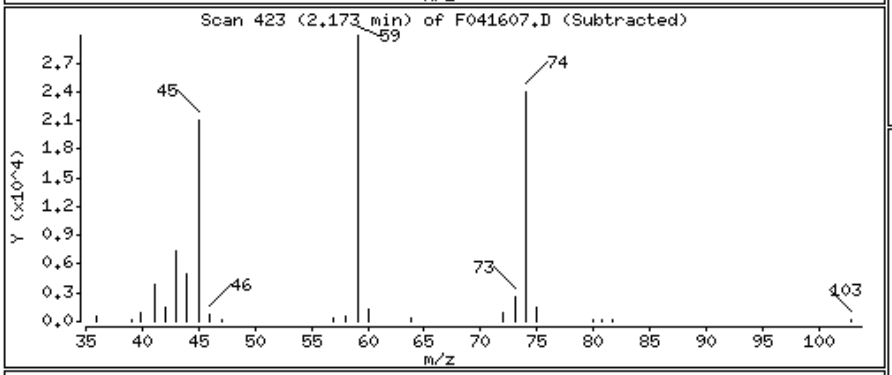
Sample Info: VSTD010;VSTD010;1;6;

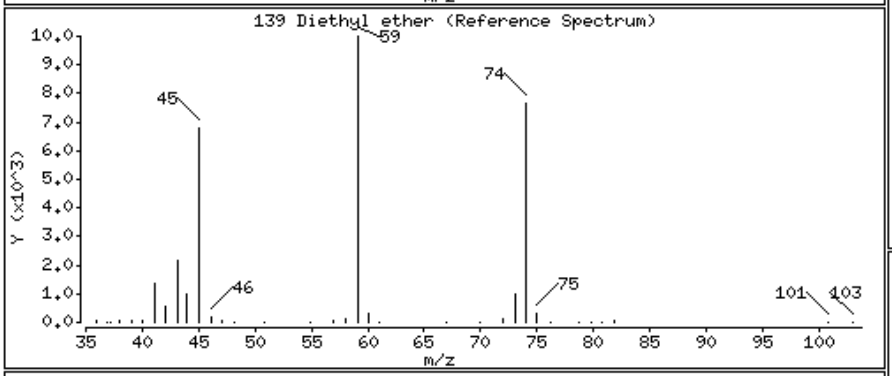
Purge Volume: 5.0 Operator: FT

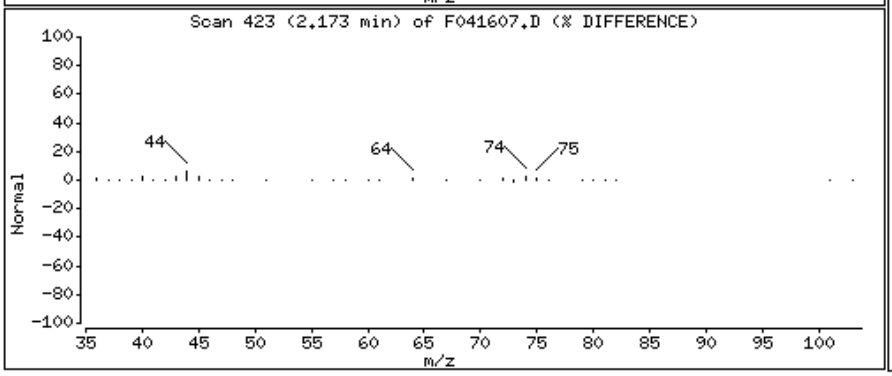
Column phase: DB624 Column diameter: 0.18

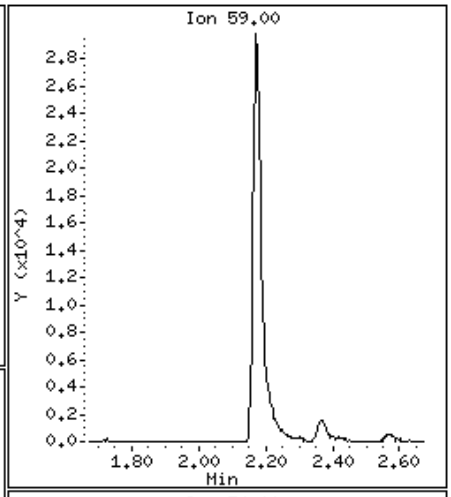
139 Diethyl ether Concentration: 9.75 ug/l

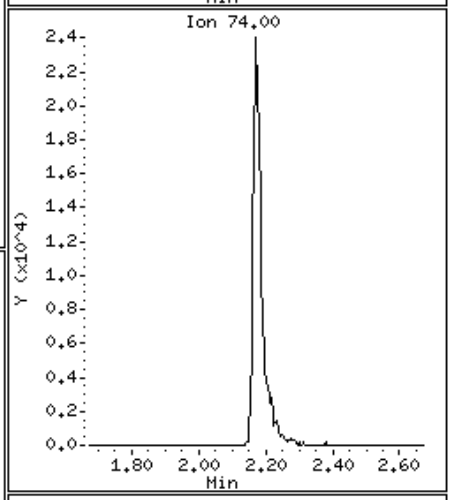


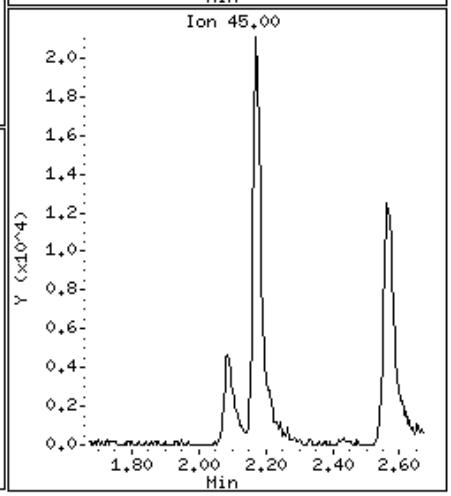












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

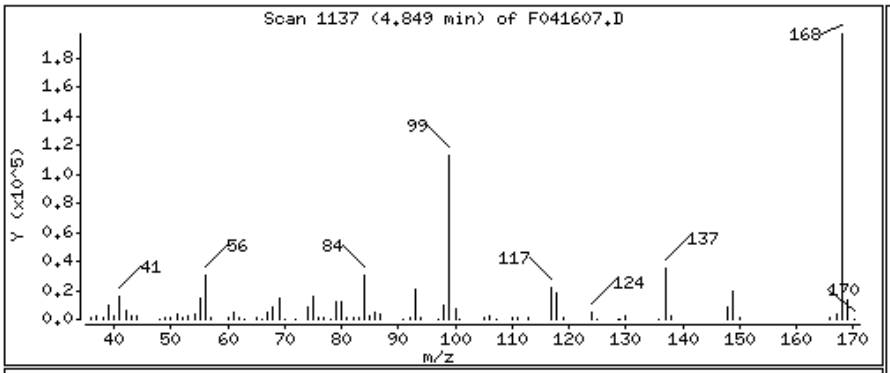
Operator: FT

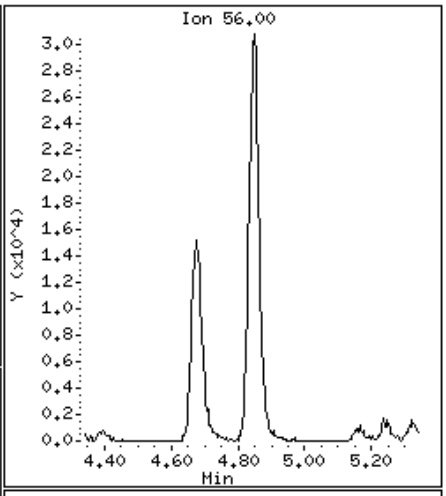
Column phase: DB624

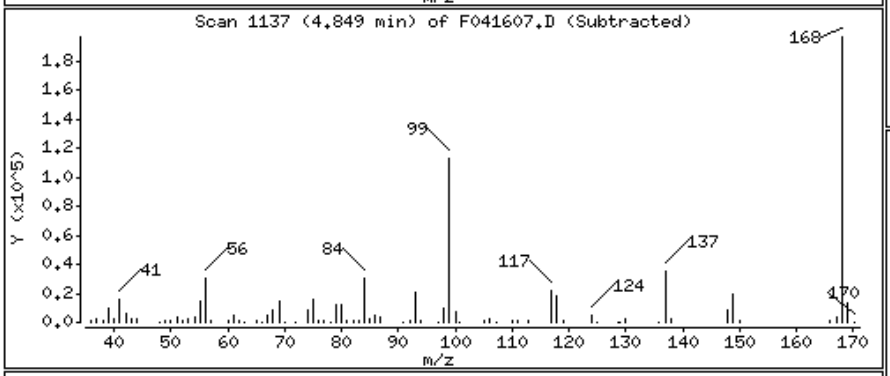
Column diameter: 0.18

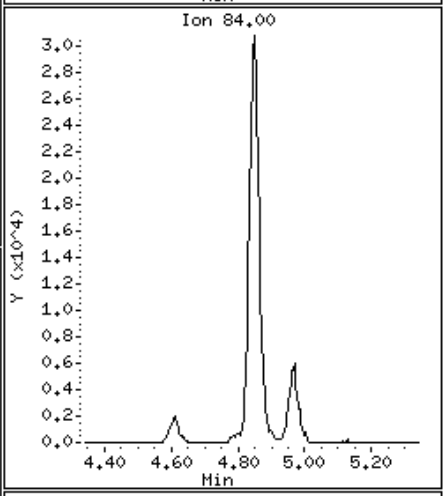
141 Cyclohexane

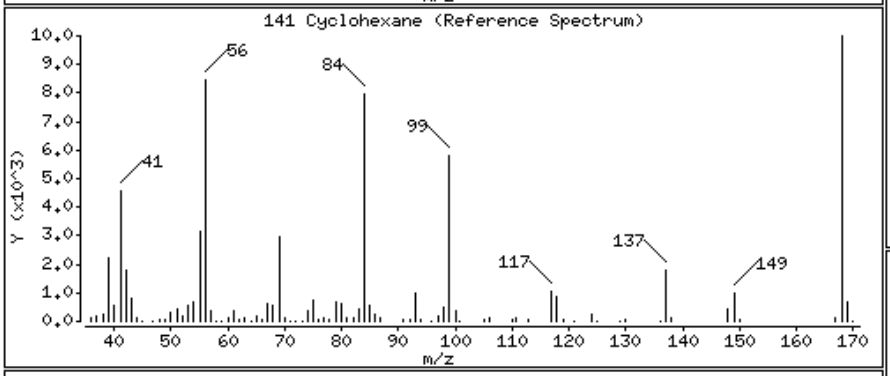
Concentration: 9.83 ug/l

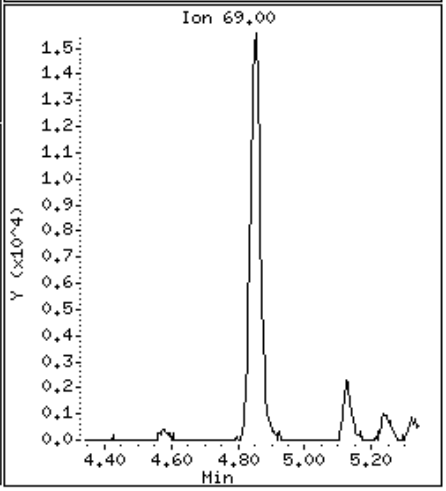


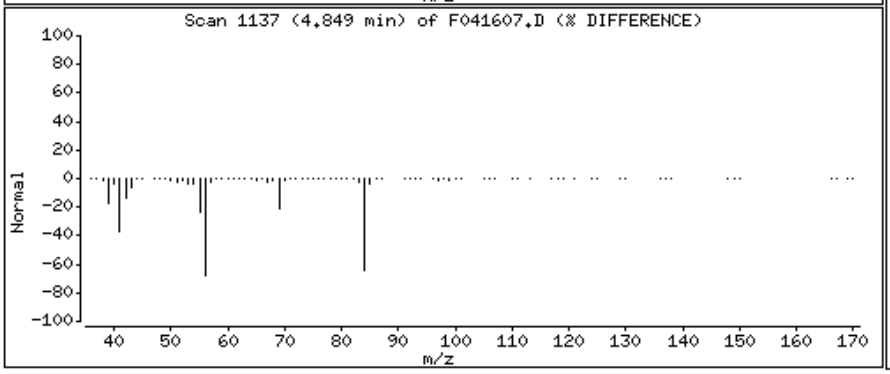












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 87

Date : 16-APR-2024 13:26

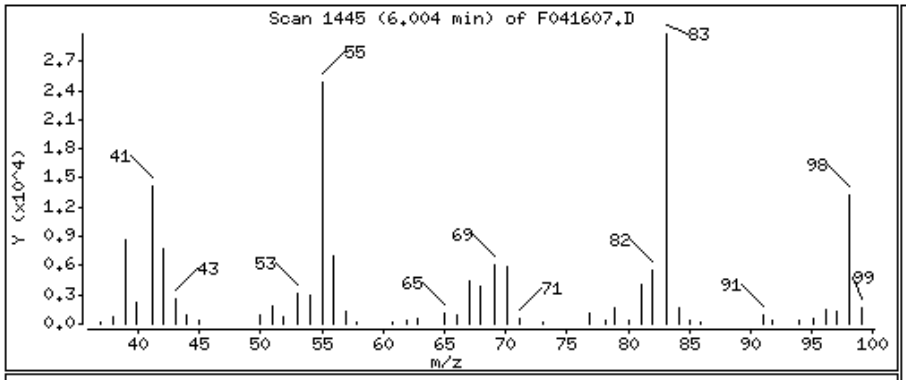
Client ID: VSTD010 Instrument: voa11.i

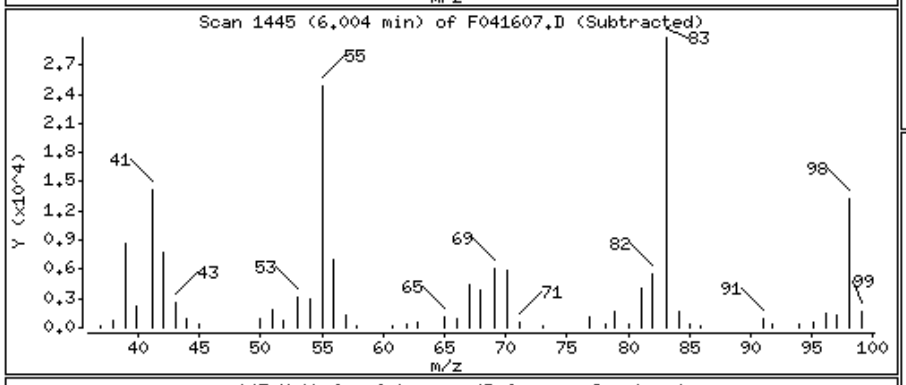
Sample Info: VSTD010;VSTD010;1;6;

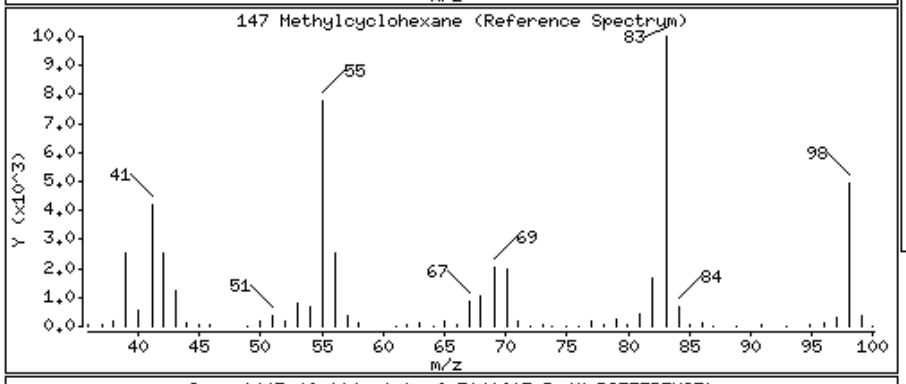
Purge Volume: 5.0 Operator: FT

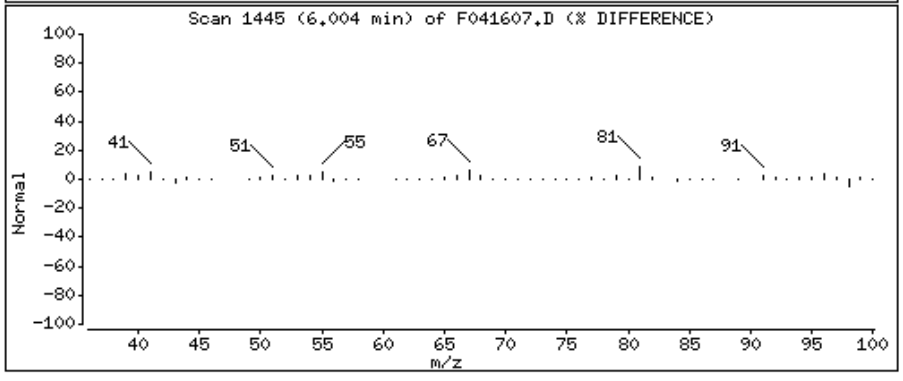
Column phase: DB624 Column diameter: 0.18

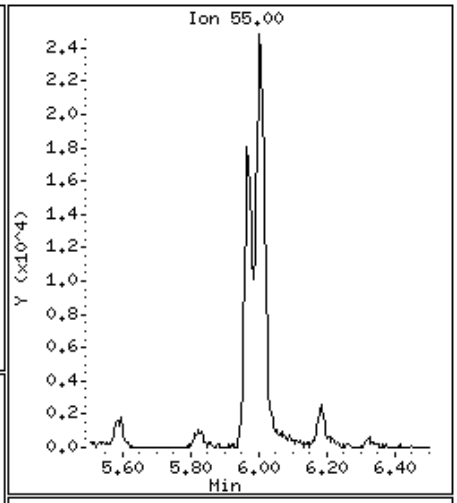
147 Methylcyclohexane Concentration: 9.64 ug/l

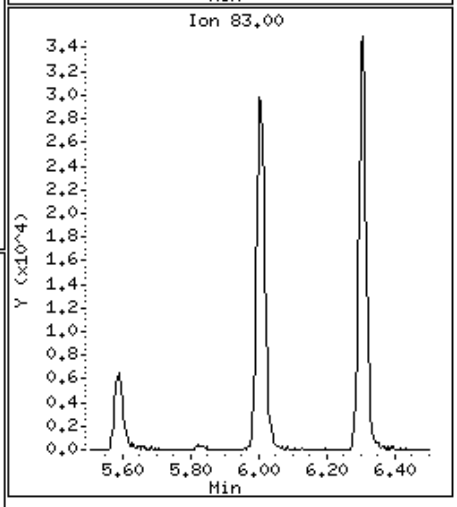












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 88

Date : 16-APR-2024 13:26

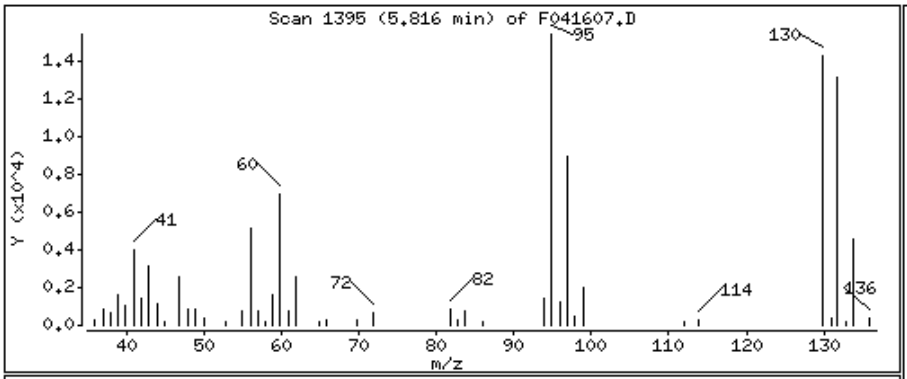
Client ID: VSTD010 Instrument: voa11.i

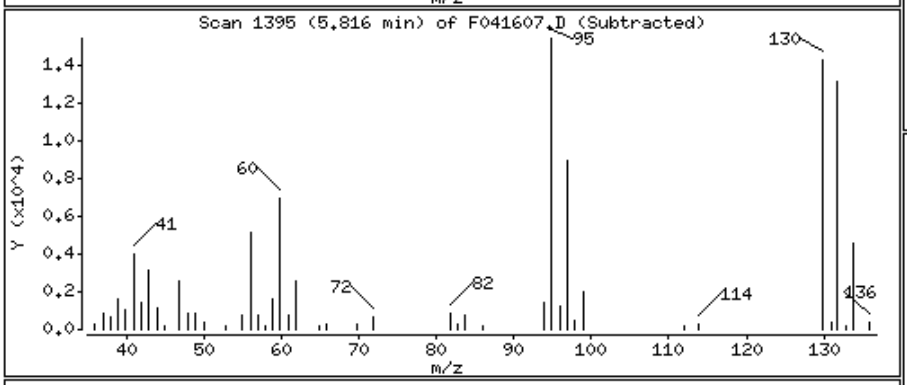
Sample Info: VSTD010;VSTD010;1;6;

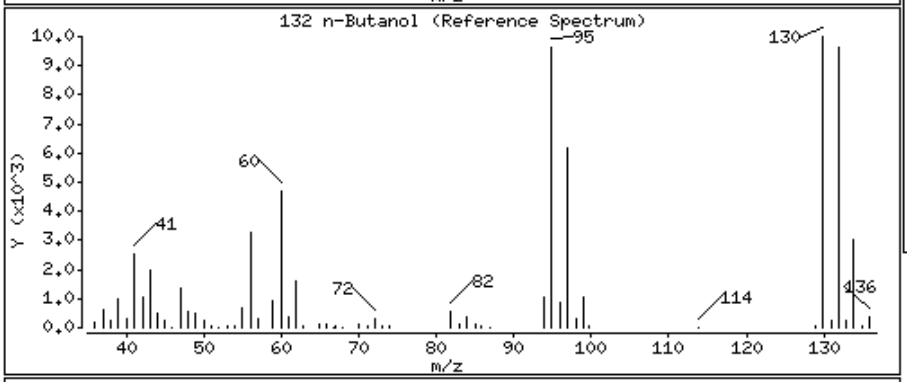
Purge Volume: 5.0 Operator: FT

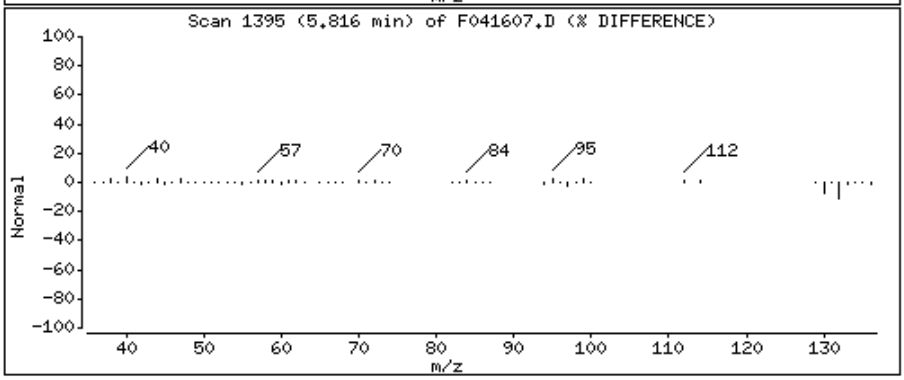
Column phase: DB624 Column diameter: 0.18

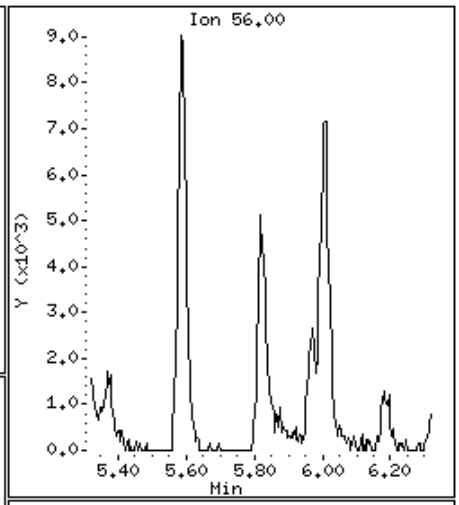
132 n-Butanol Concentration: 163.69 ug/l

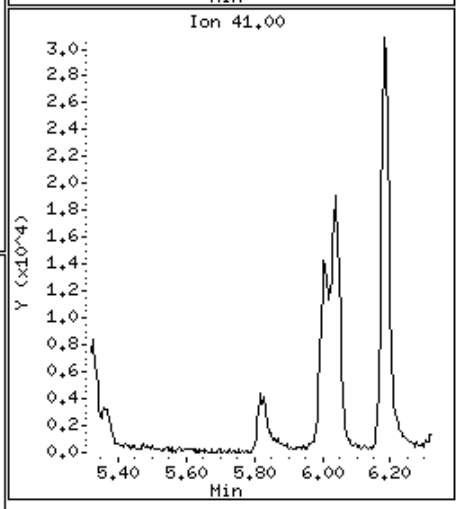












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 89

Date : 16-APR-2024 13:26

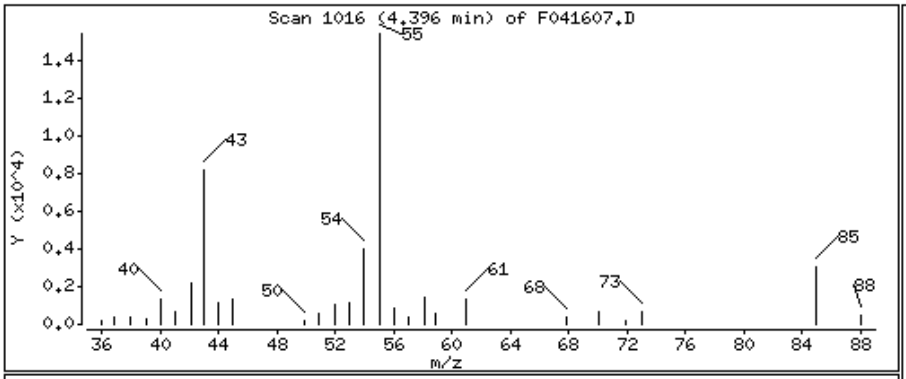
Client ID: VSTD010 Instrument: voa11.i

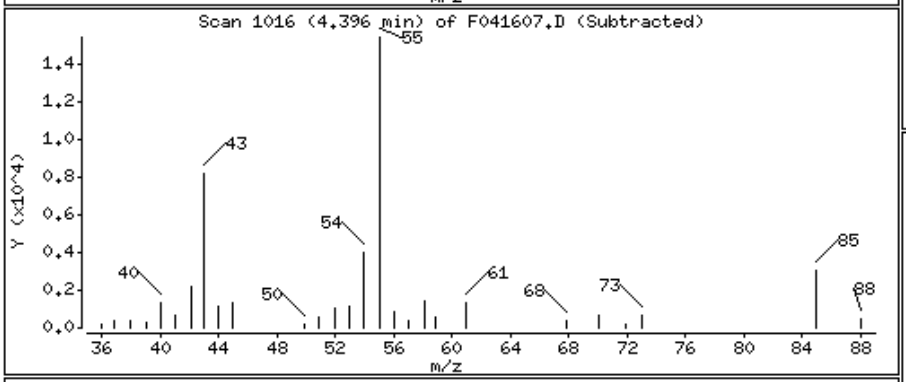
Sample Info: VSTD010;VSTD010;1;6;

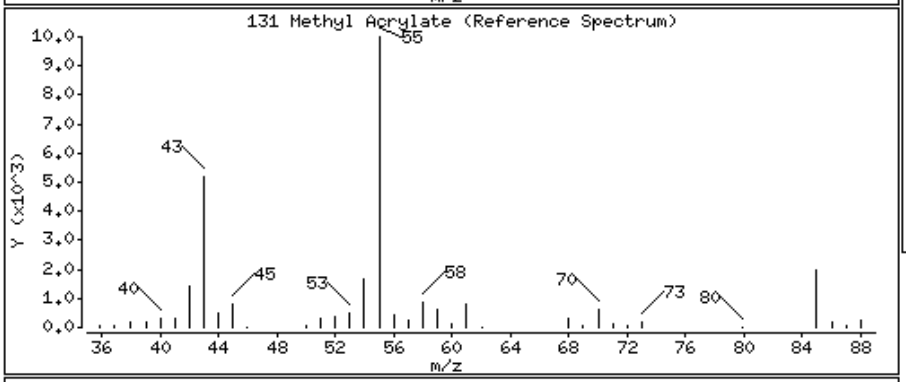
Purge Volume: 5.0 Operator: FT

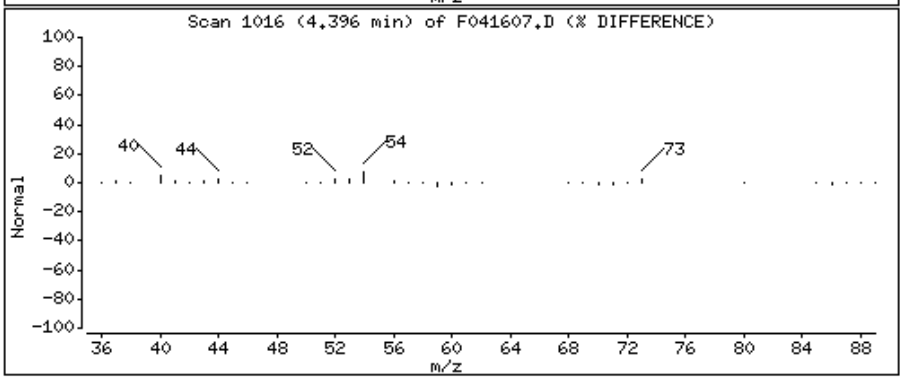
Column phase: DB624 Column diameter: 0.18

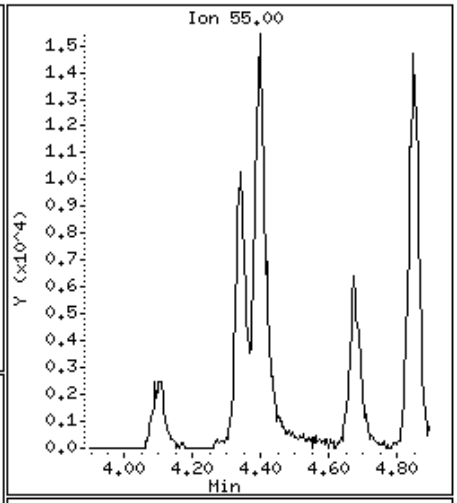
131 Methyl Acrylate Concentration: 9.66 ug/l

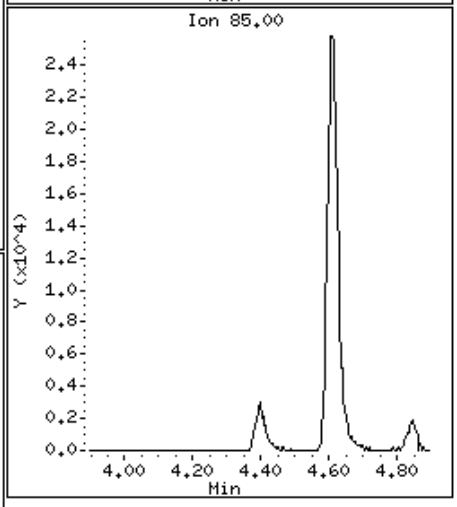












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

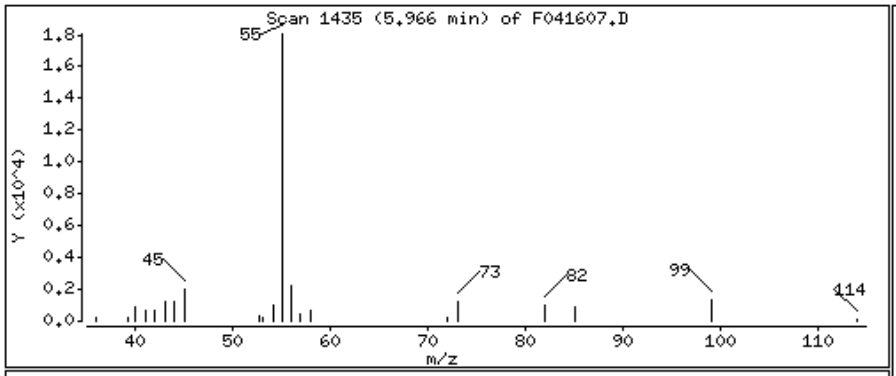
Operator: FT

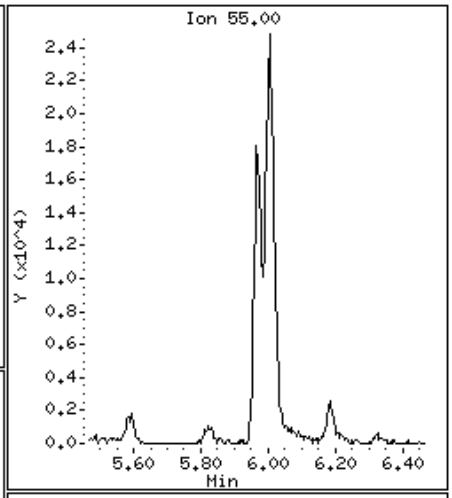
Column phase: DB624

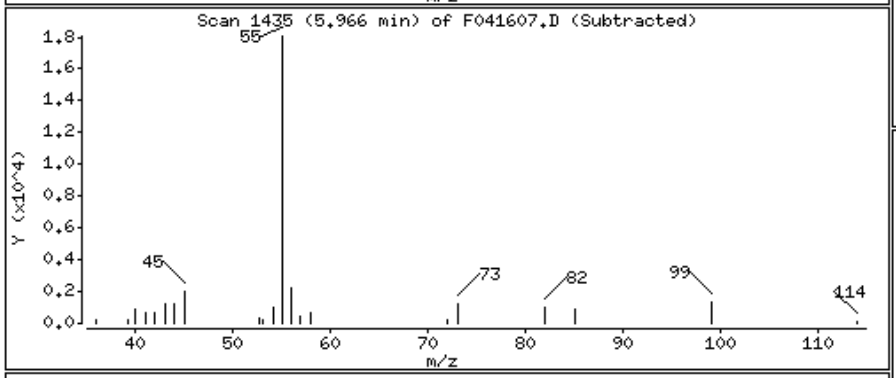
Column diameter: 0.18

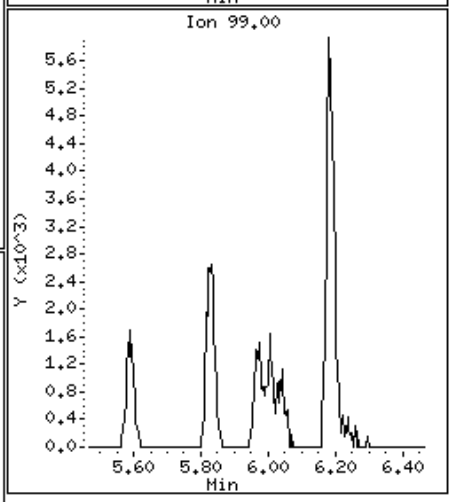
133 Ethyl Acrylate

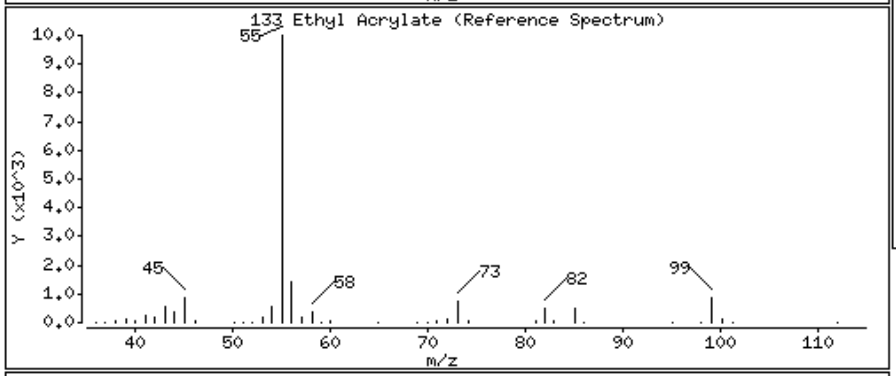
Concentration: 8.86 ug/l

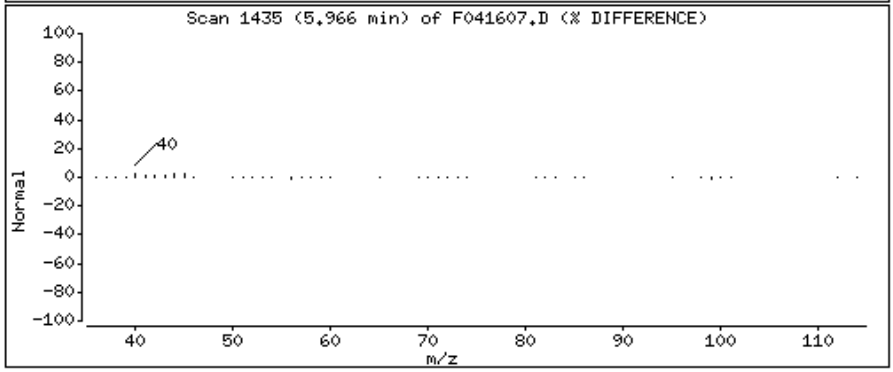












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 91

Date : 16-APR-2024 13:26

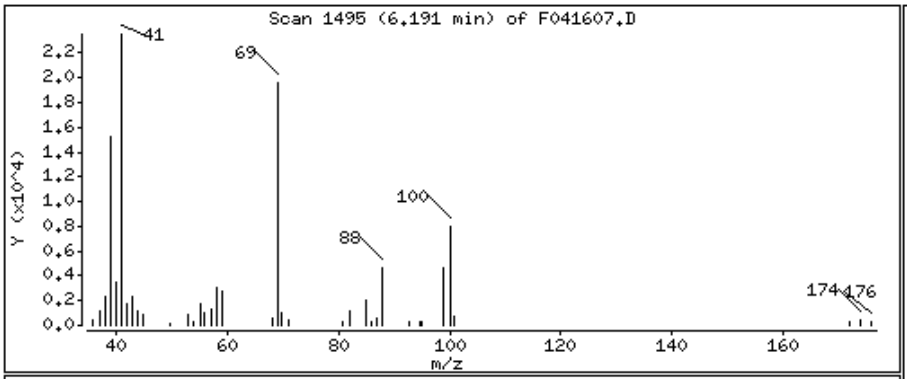
Client ID: VSTD010 Instrument: voa11.i

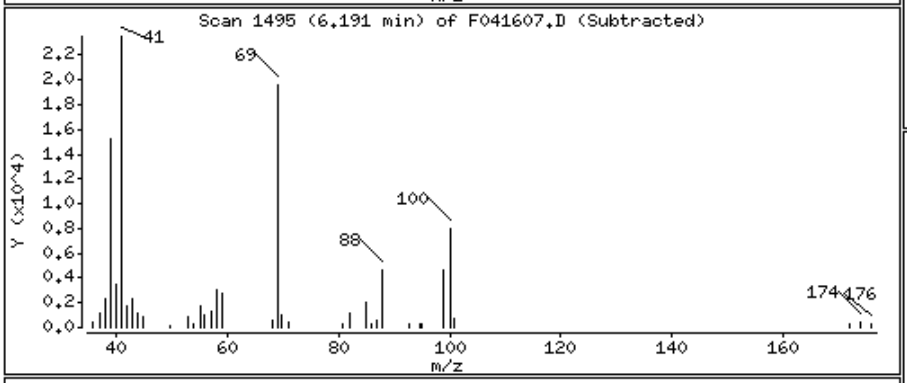
Sample Info: VSTD010;VSTD010;1;6;

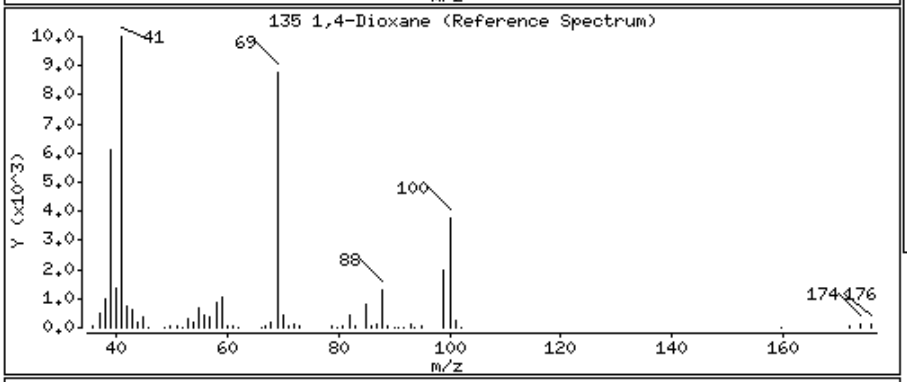
Purge Volume: 5.0 Operator: FT

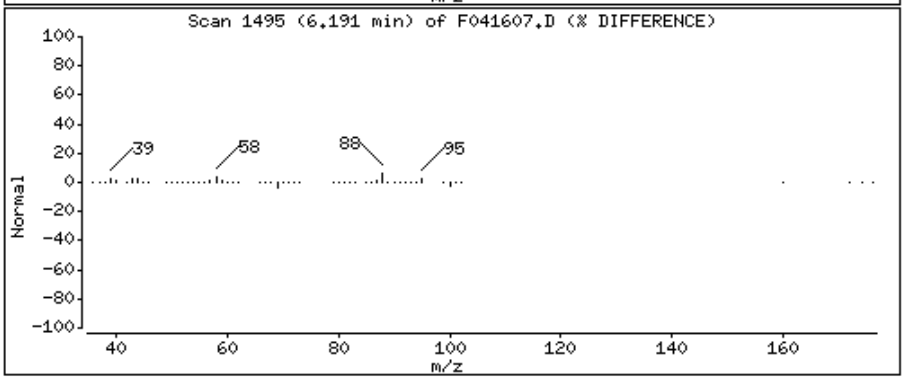
Column phase: DB624 Column diameter: 0.18

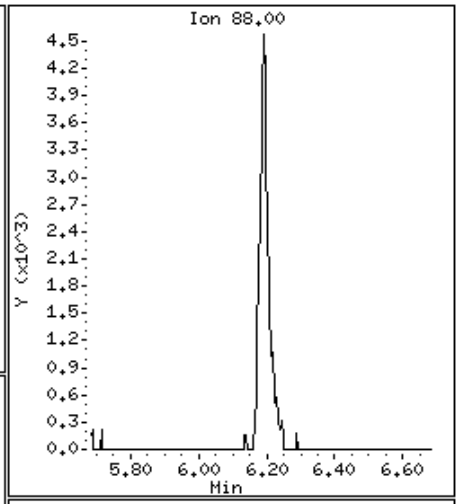
135 1,4-Dioxane Concentration: 182.02 ug/l

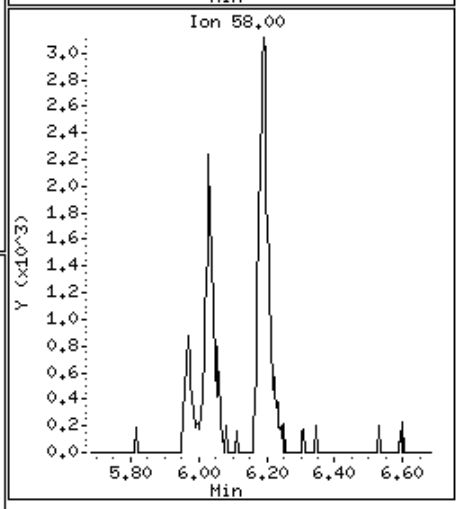












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

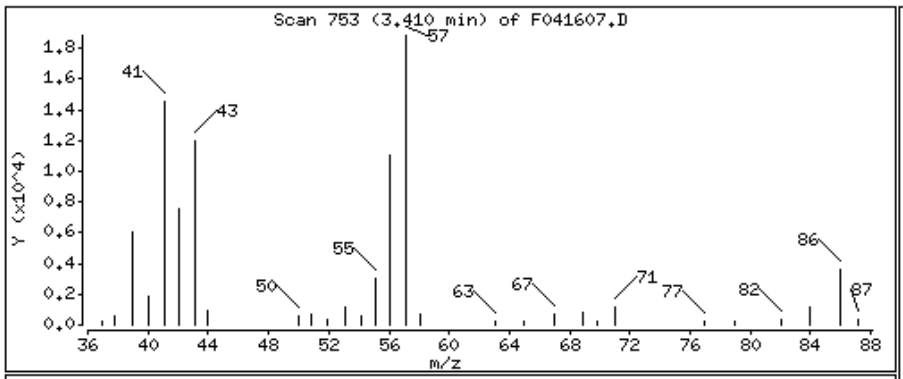
Operator: FT

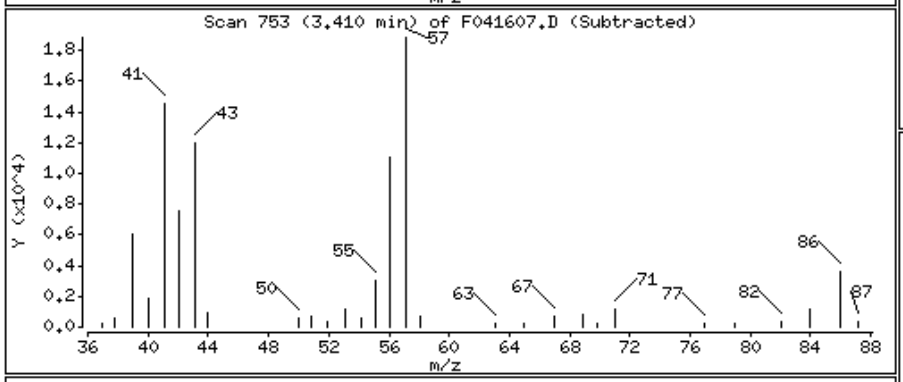
Column phase: DB624

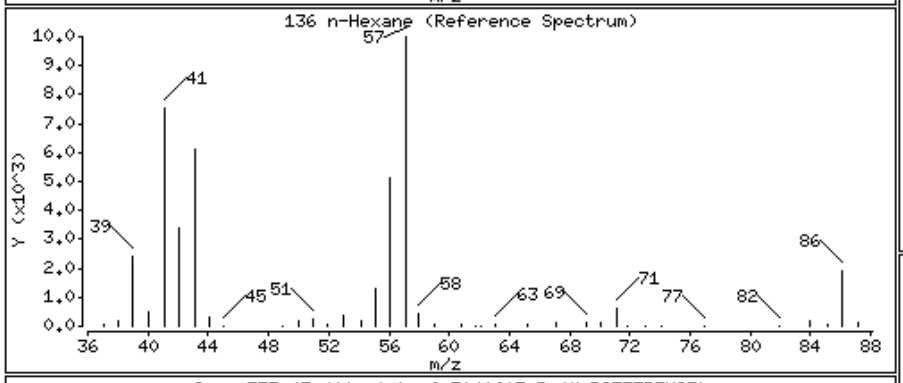
Column diameter: 0.18

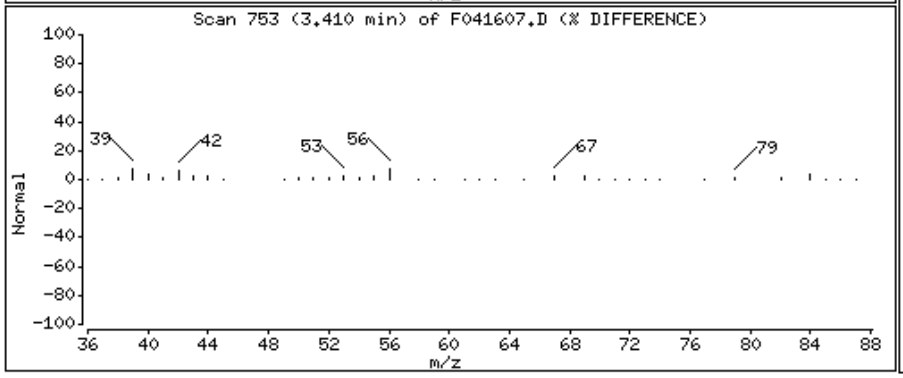
136 n-Hexane

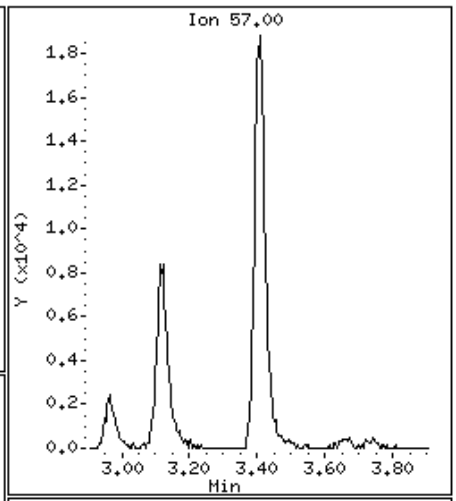
Concentration: 9.80 ug/l

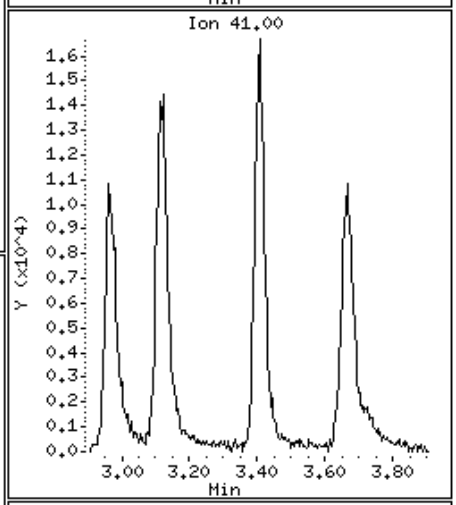


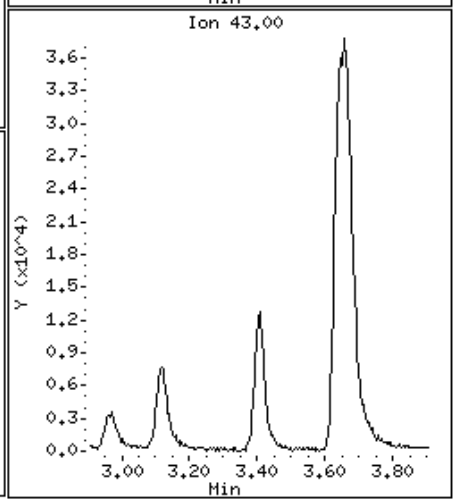












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 93

Date : 16-APR-2024 13:26

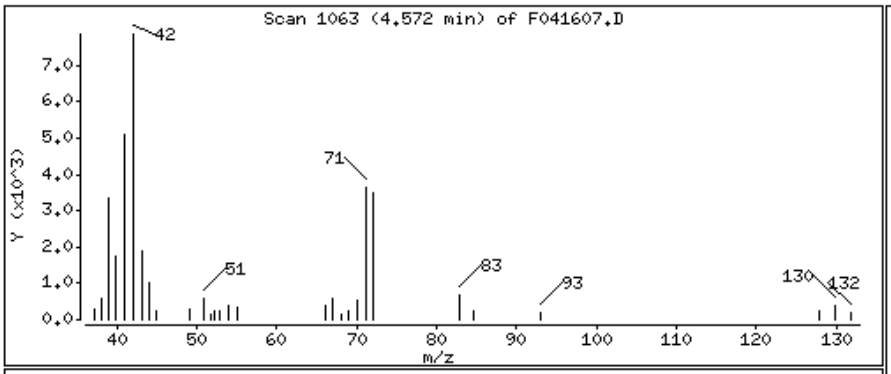
Client ID: VSTD010 Instrument: voa11.i

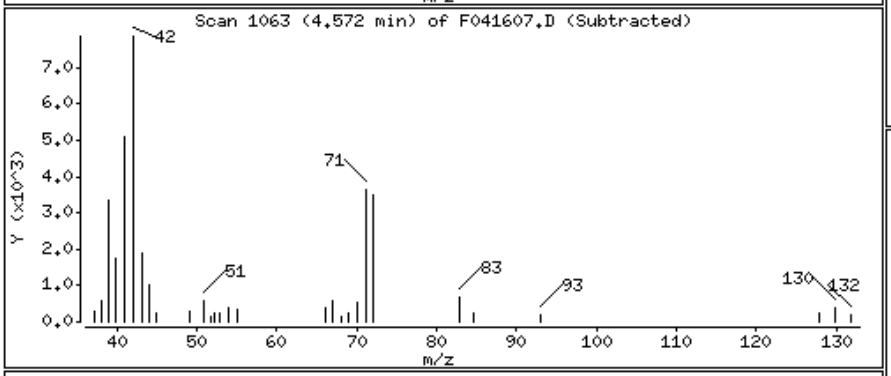
Sample Info: VSTD010;VSTD010;1;6;

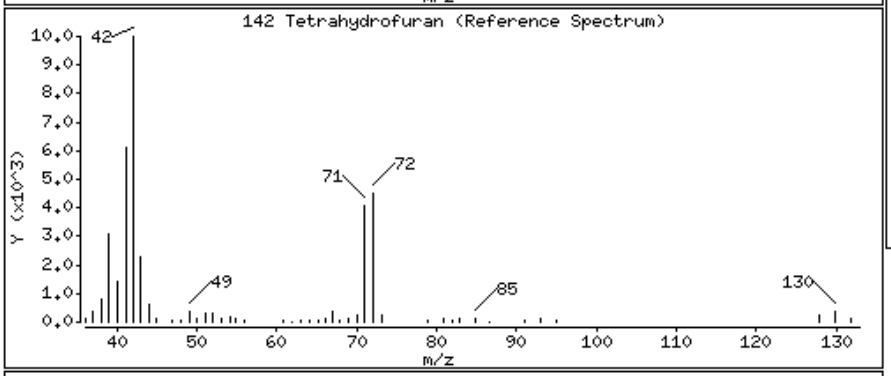
Purge Volume: 5.0 Operator: FT

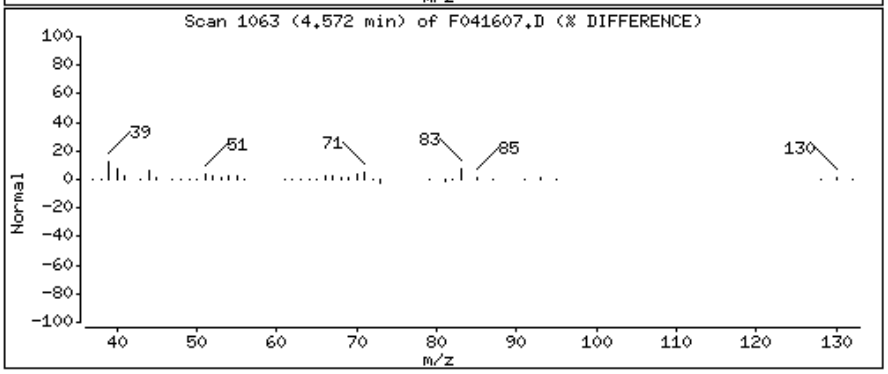
Column phase: DB624 Column diameter: 0.18

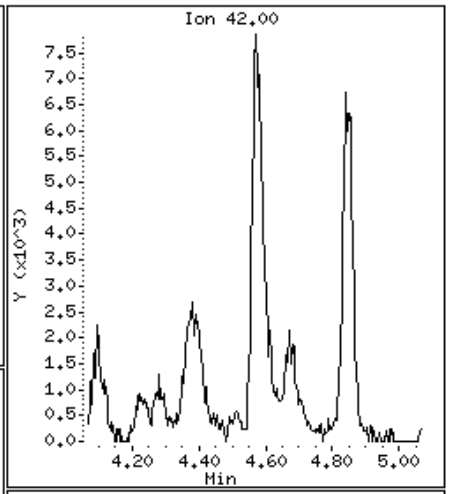
142 Tetrahydrofuran Concentration: 18.41 ug/l

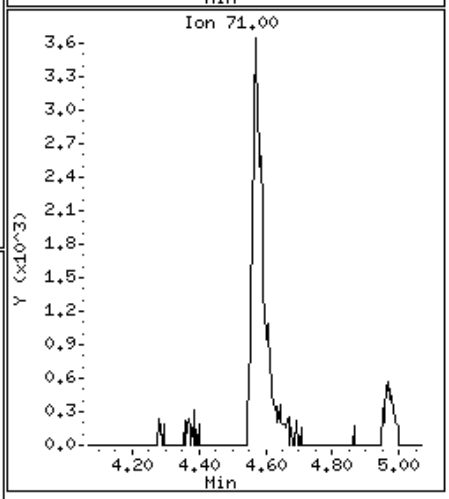












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

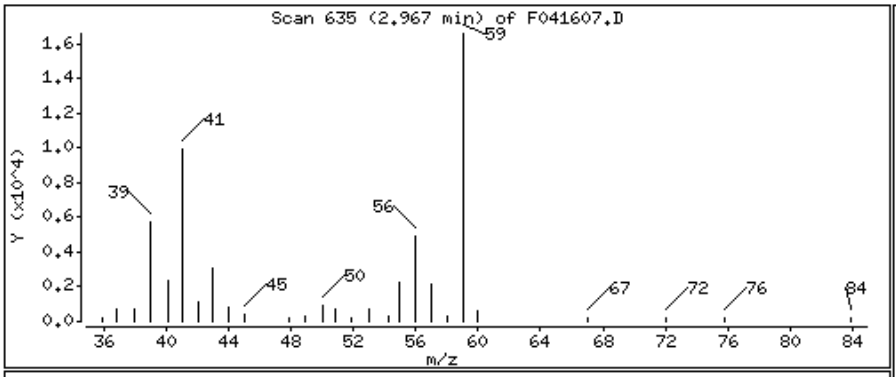
Operator: FT

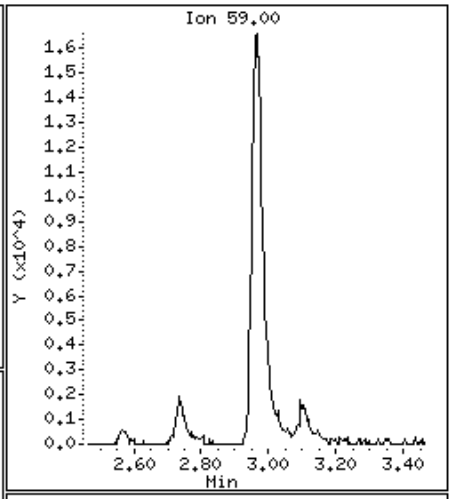
Column phase: DB624

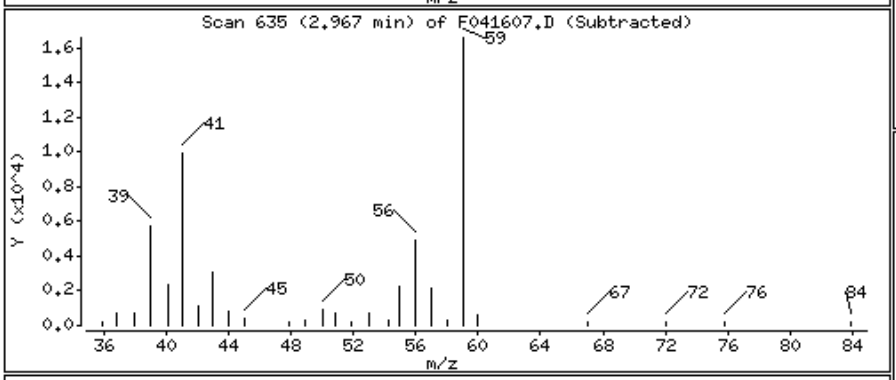
Column diameter: 0.18

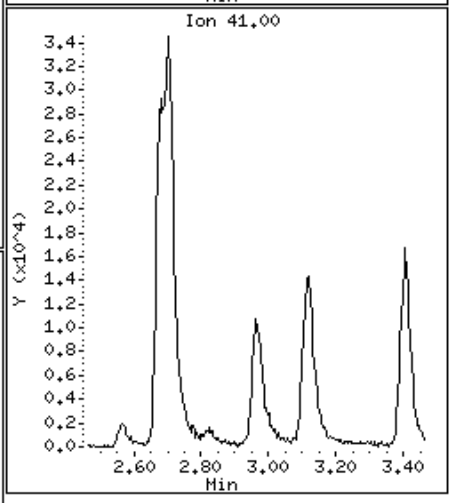
148 Tert-butyl alcohol

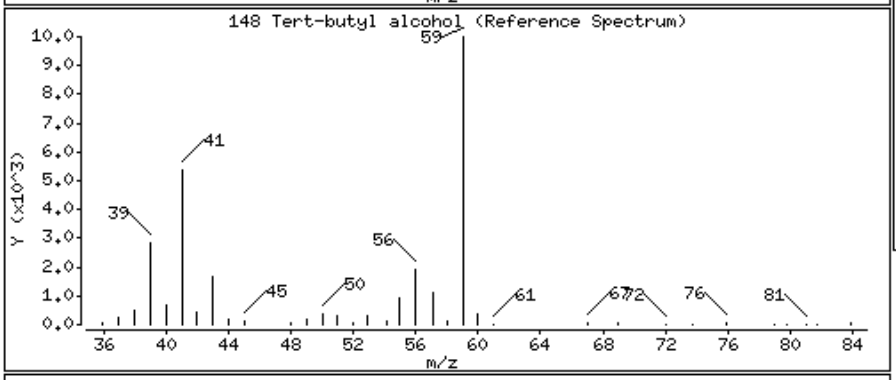
Concentration: 195.34 ug/l

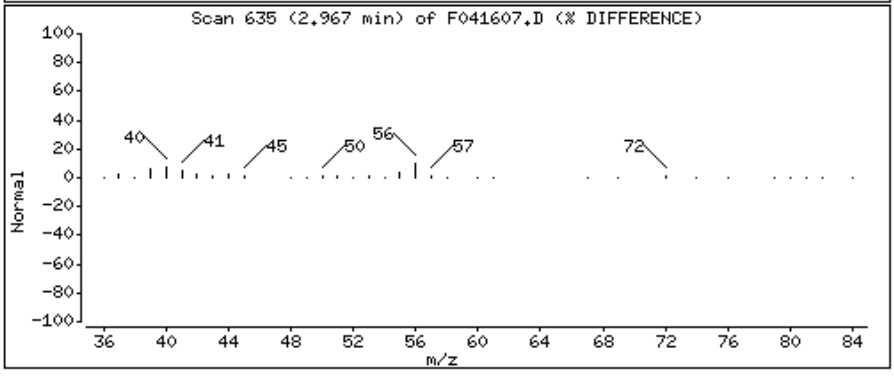












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 95

Date : 16-APR-2024 13:26

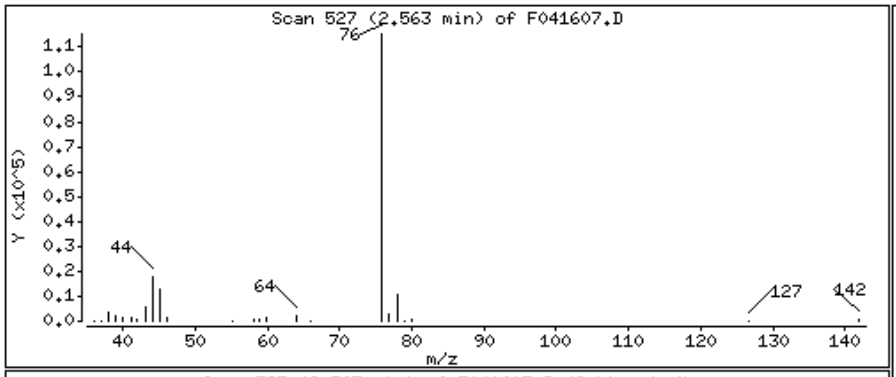
Client ID: VSTD010 Instrument: voa11.i

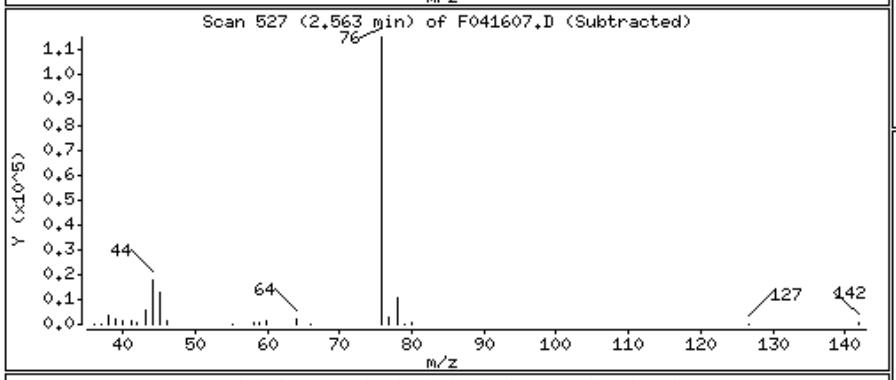
Sample Info: VSTD010;VSTD010;1;6;

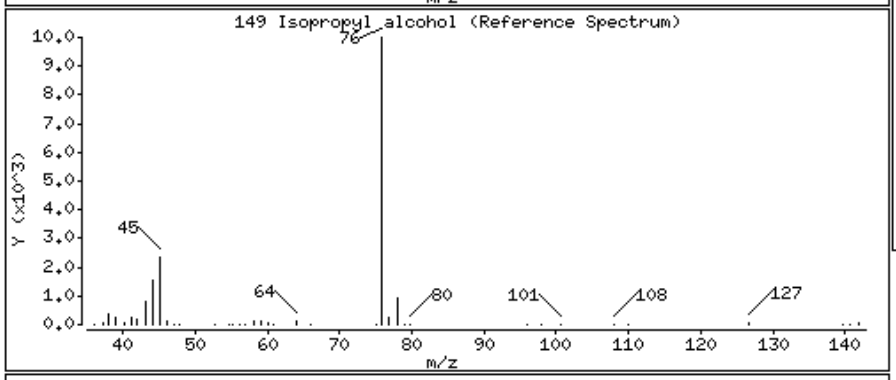
Purge Volume: 5.0 Operator: FT

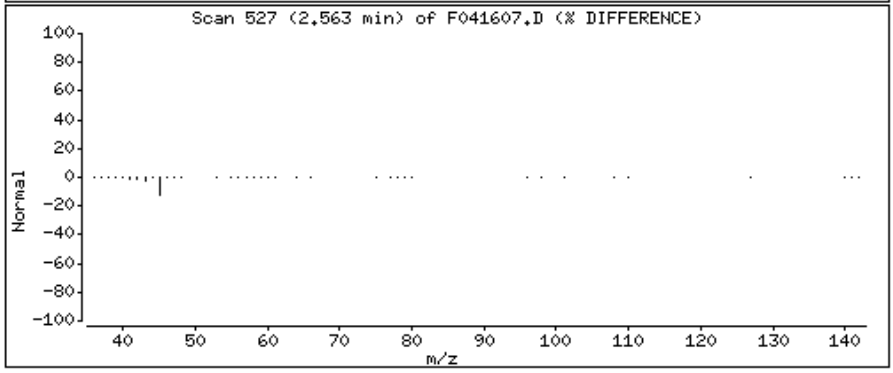
Column phase: DB624 Column diameter: 0.18

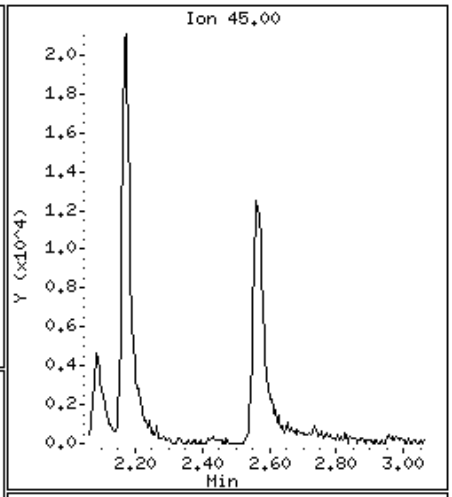
149 Isopropyl alcohol Concentration: 186.74 ug/l

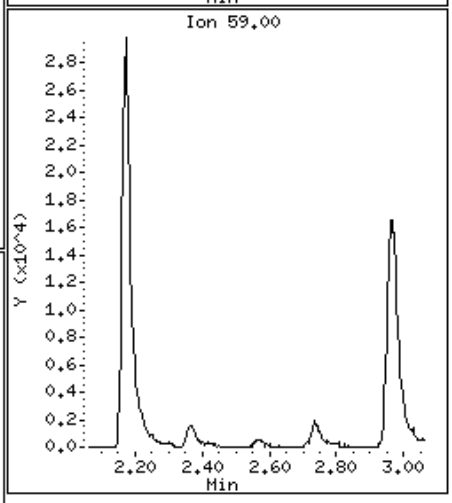












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

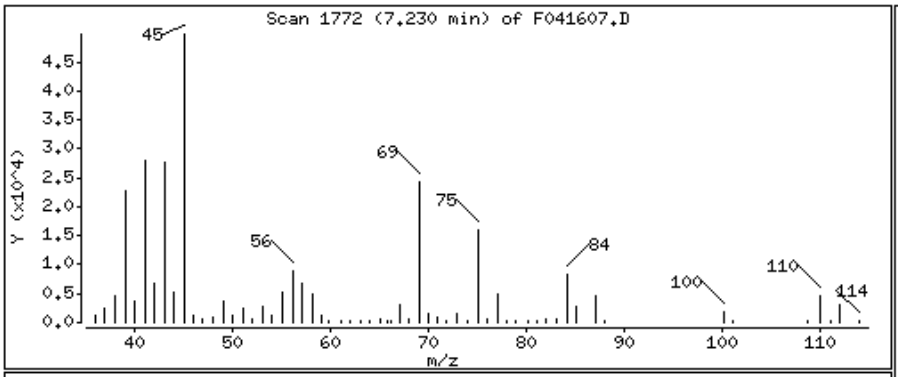
Operator: FT

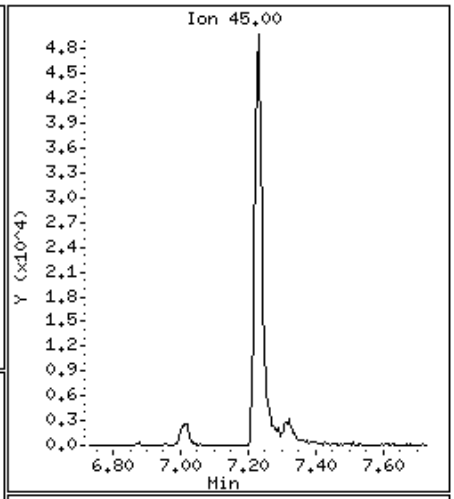
Column phase: DB624

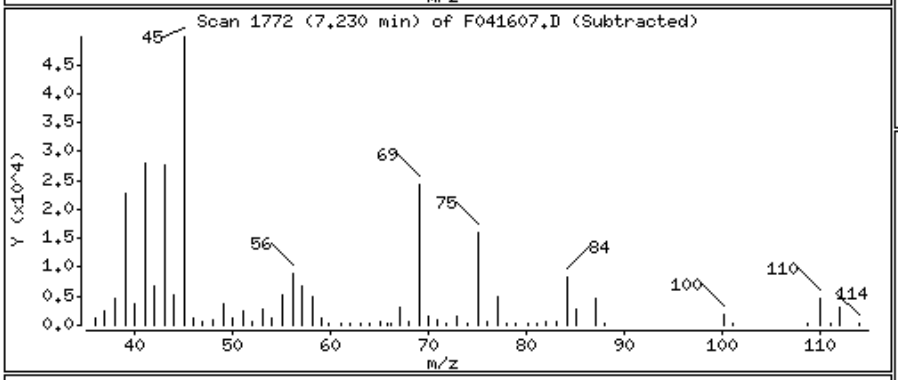
Column diameter: 0.18

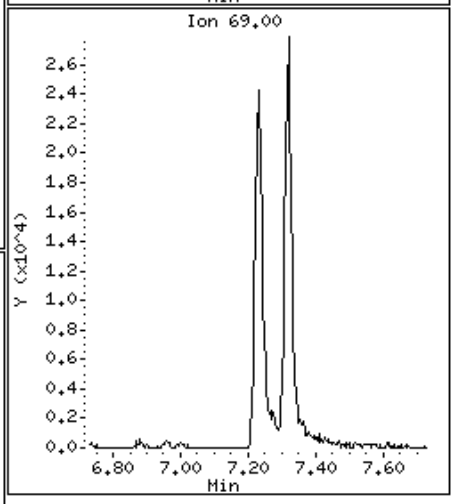
151 4-Methyl-2-pentanol

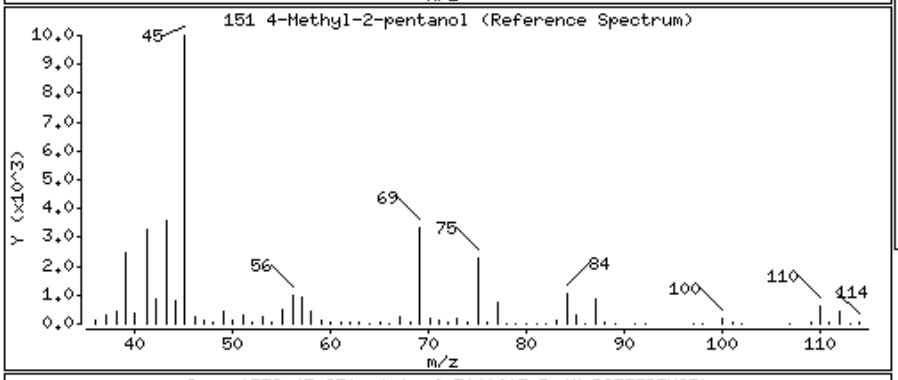
Concentration: 169.98 ug/l

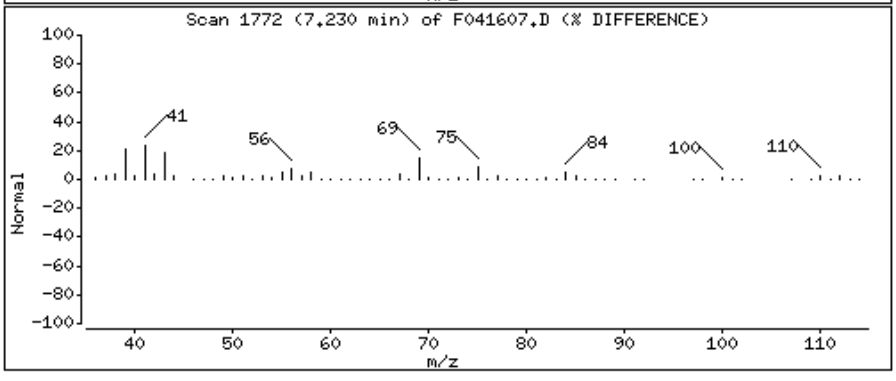












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 97

Date : 16-APR-2024 13:26

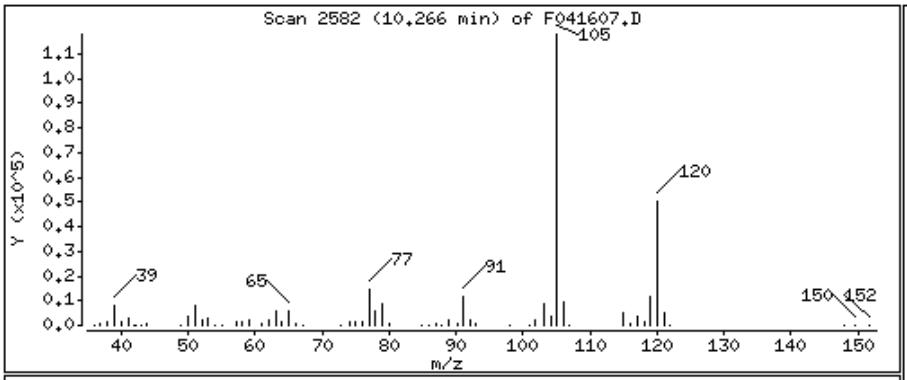
Client ID: VSTD010 Instrument: voa11.i

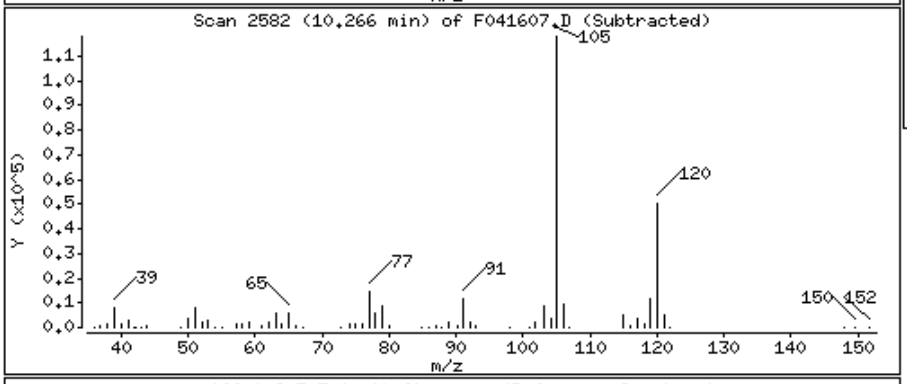
Sample Info: VSTD010;VSTD010;1;6;

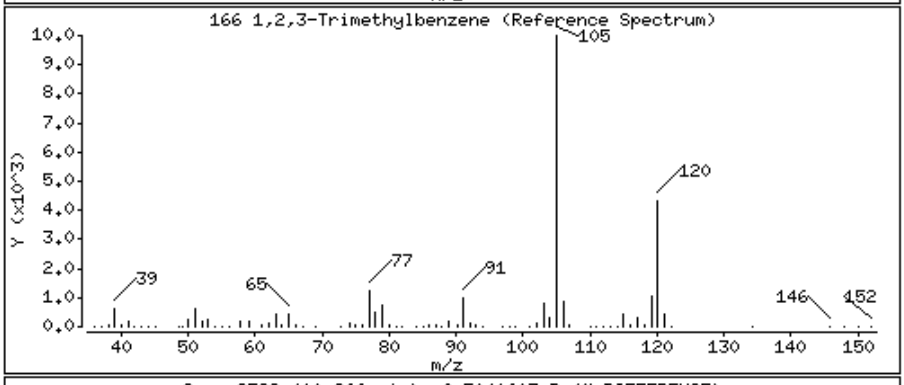
Purge Volume: 5.0 Operator: FT

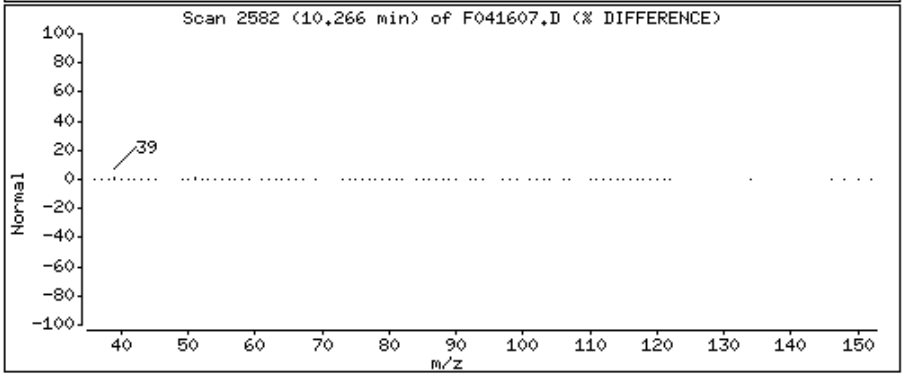
Column phase: DB624 Column diameter: 0.18

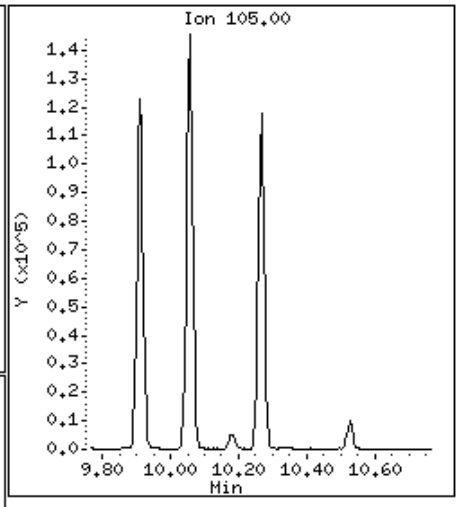
166 1,2,3-Trimethylbenzene Concentration: 10.17 ug/l











Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 98

Date : 16-APR-2024 13:26

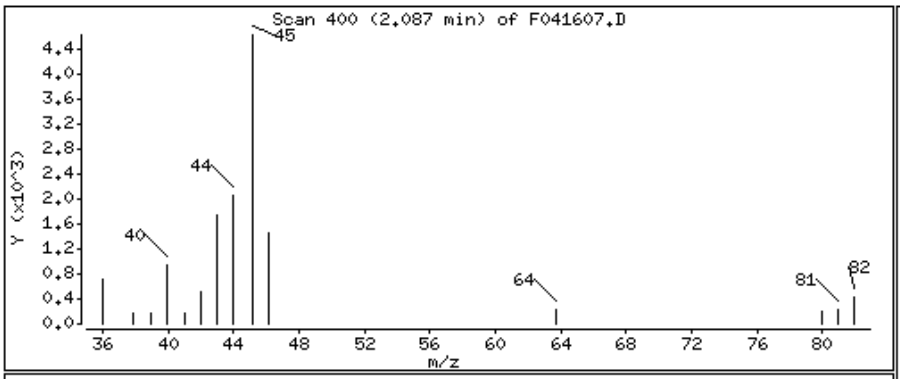
Client ID: VSTD010 Instrument: voa11.i

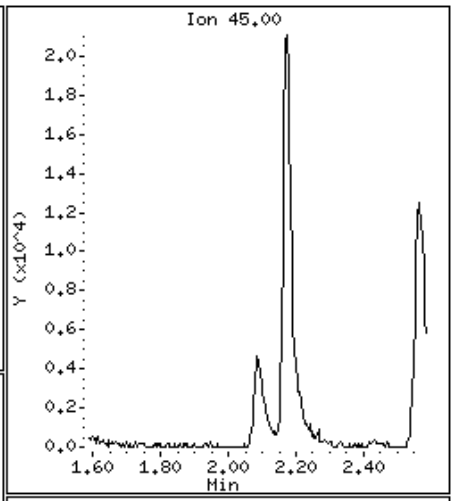
Sample Info: VSTD010;VSTD010;1;6;

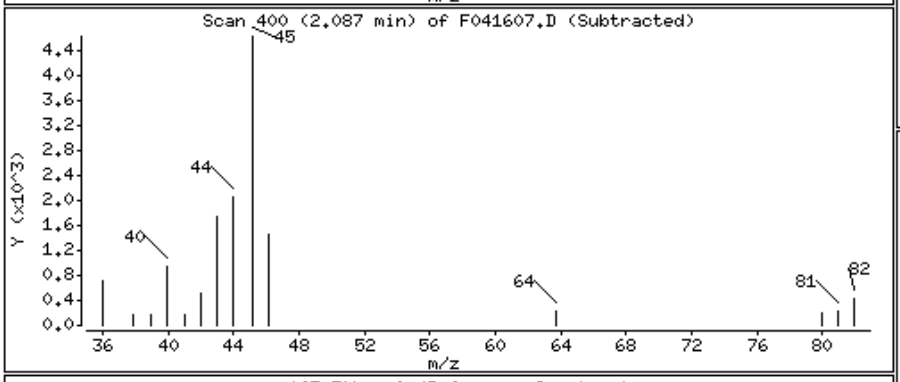
Purge Volume: 5.0 Operator: FT

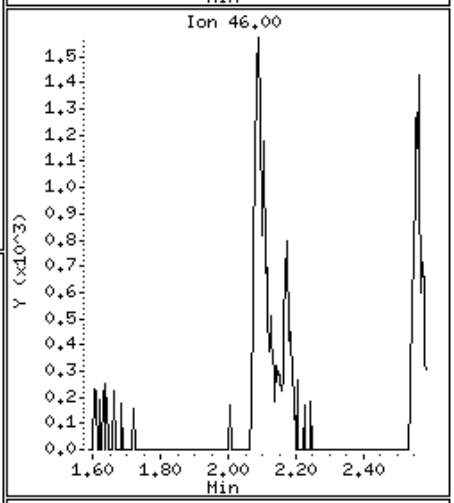
Column phase: DB624 Column diameter: 0.18

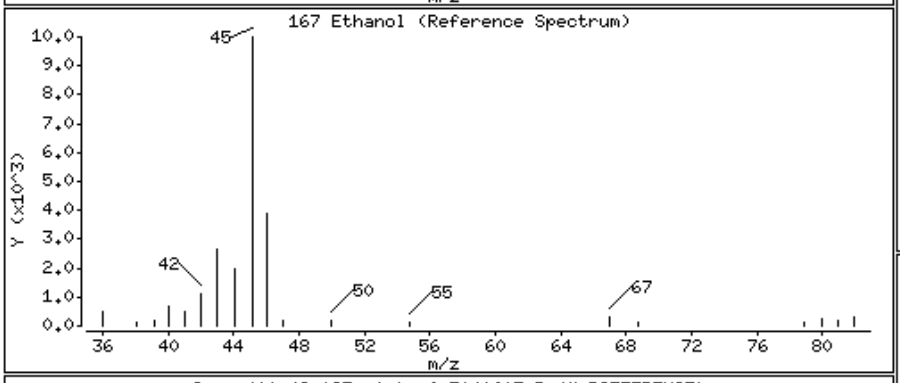
167 Ethanol Concentration: 232.86 ug/l

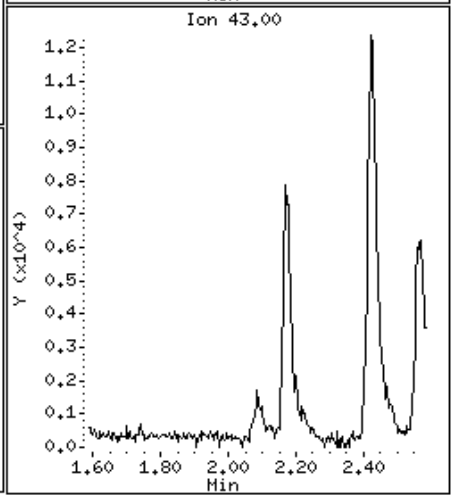


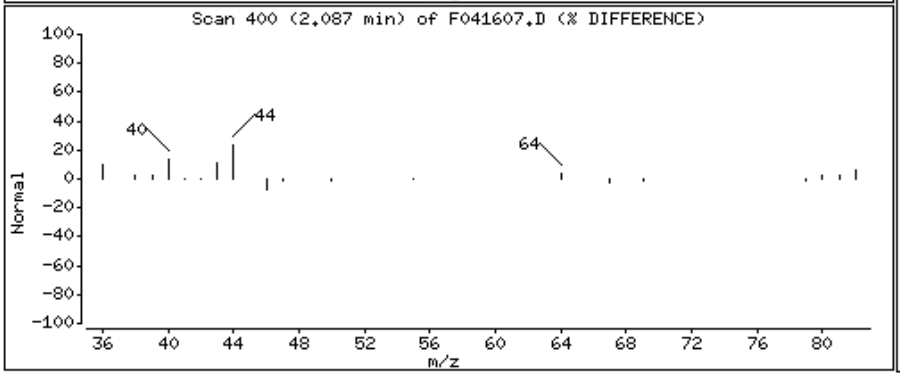












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 99

Date : 16-APR-2024 13:26

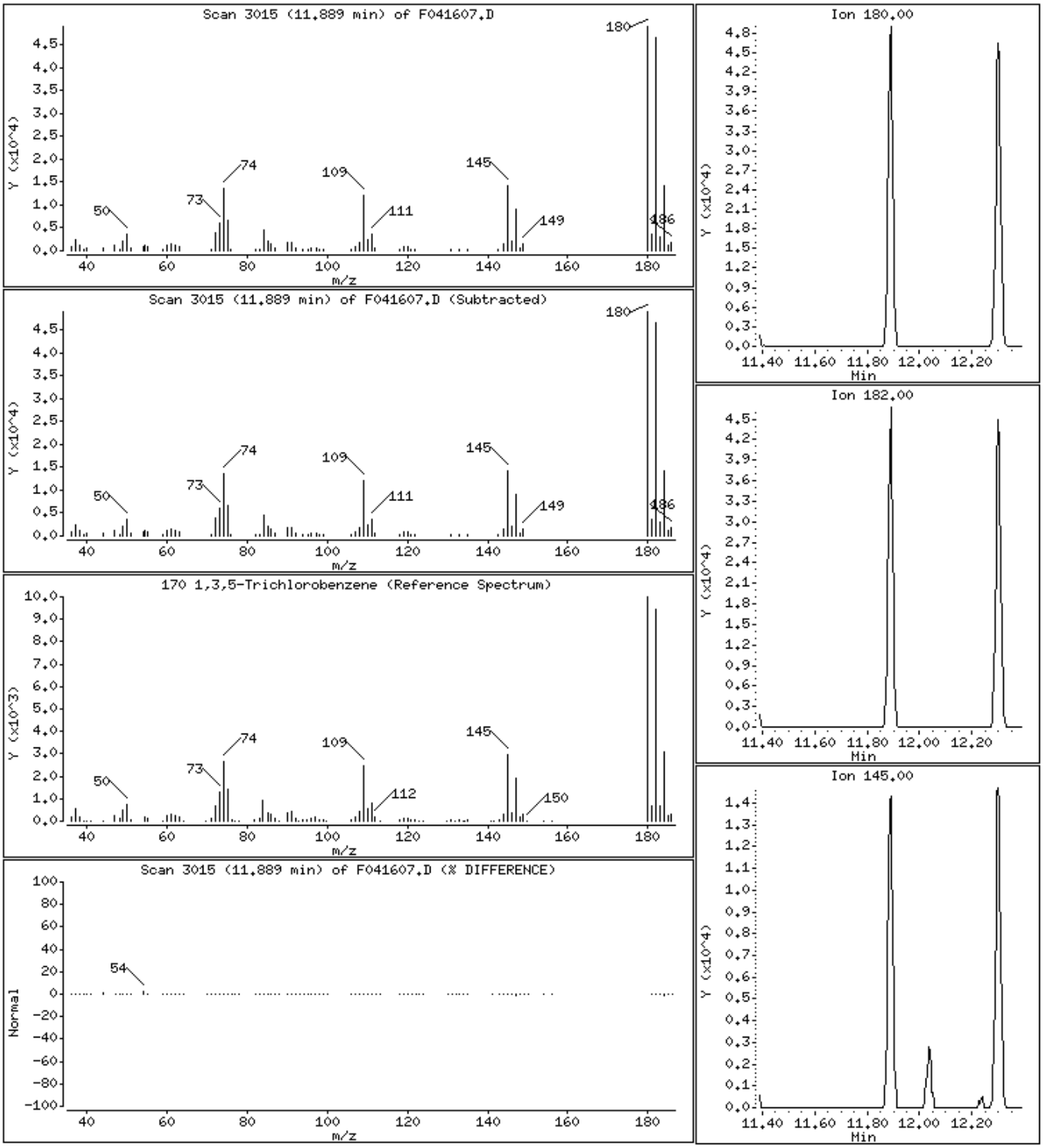
Client ID: VSTD010 Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0 Operator: FT

Column phase: DB624 Column diameter: 0.18

170 1,3,5-Trichlorobenzene Concentration: 10.03 ug/l



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 100

Date : 16-APR-2024 13:26

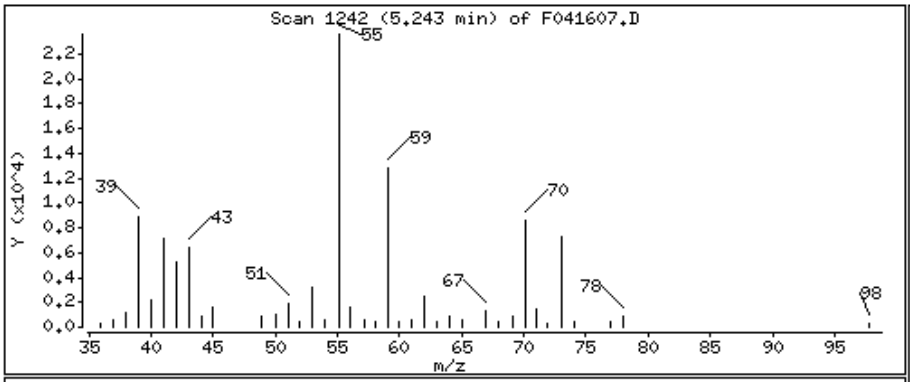
Client ID: VSTD010 Instrument: voa11.i

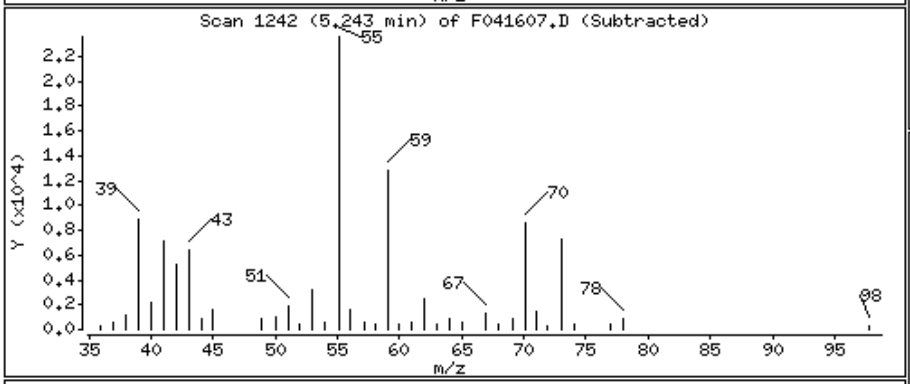
Sample Info: VSTD010;VSTD010;1;6;

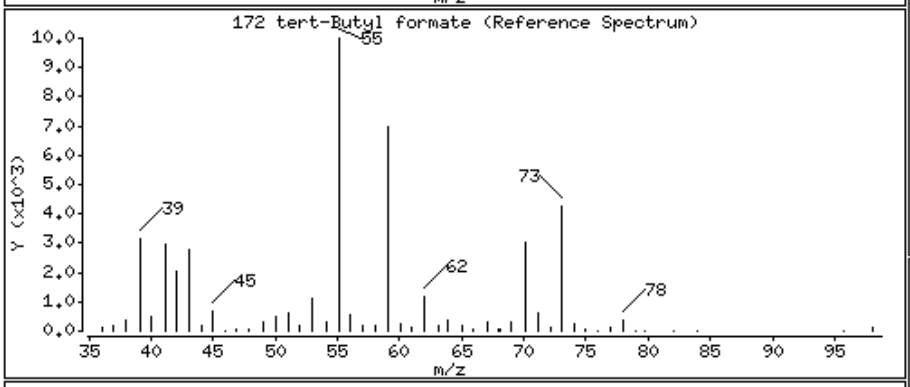
Purge Volume: 5.0 Operator: FT

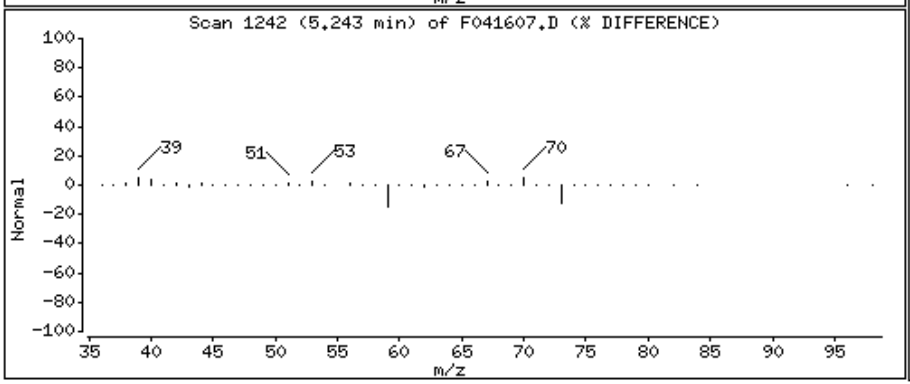
Column phase: DB624 Column diameter: 0.18

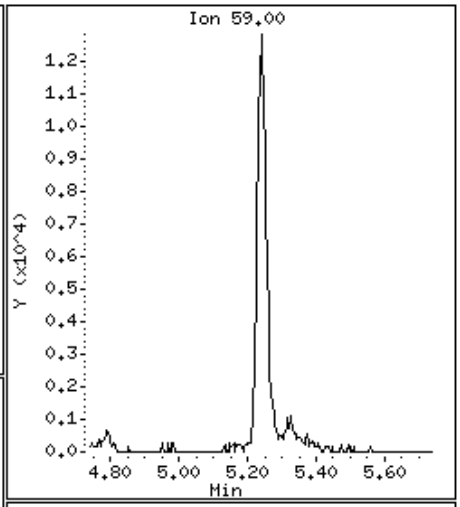
172 tert-Butyl formate Concentration: 18.52 ug/l

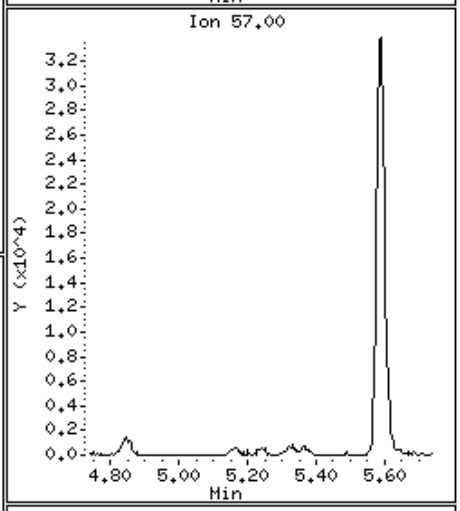


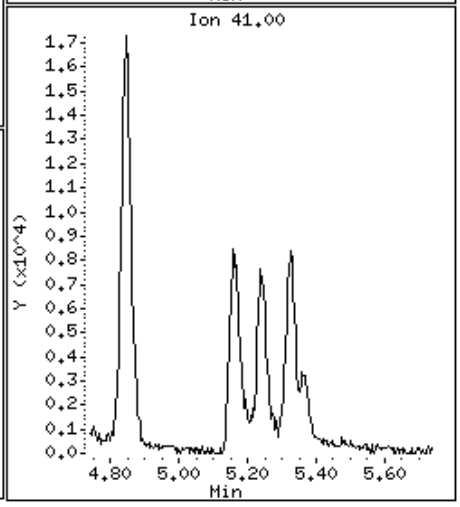












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 101

Date : 16-APR-2024 13:26

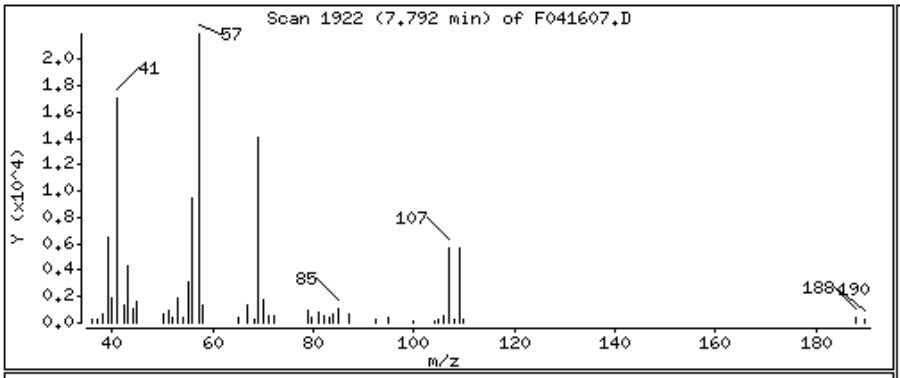
Client ID: VSTD010 Instrument: voa11.i

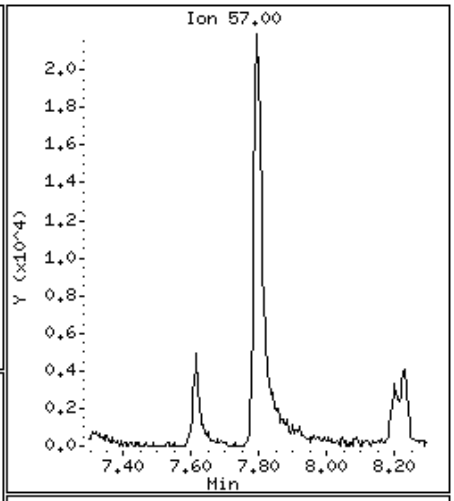
Sample Info: VSTD010;VSTD010;1;6;

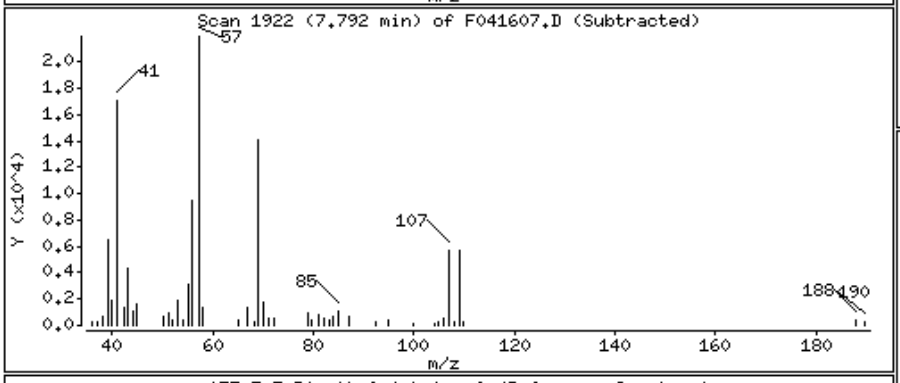
Purge Volume: 5.0 Operator: FT

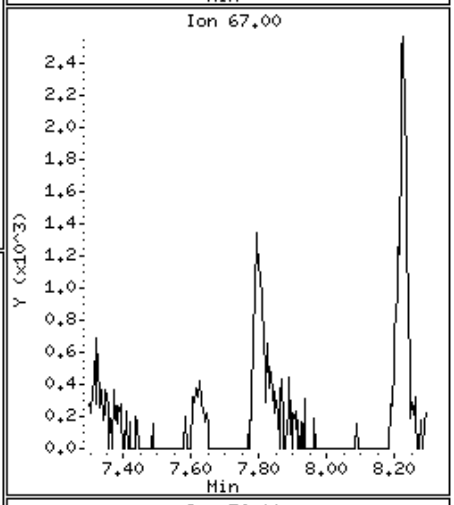
Column phase: DB624 Column diameter: 0.18

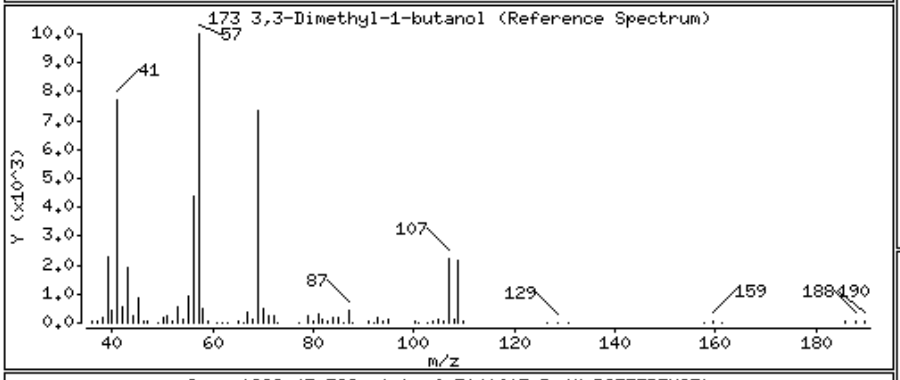
173 3,3-Dimethyl-1-butanol Concentration: 181.59 ug/l

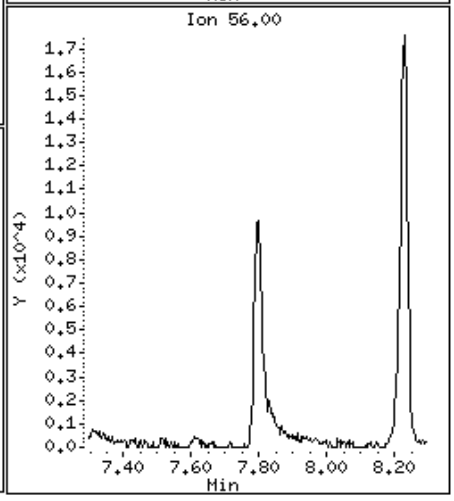


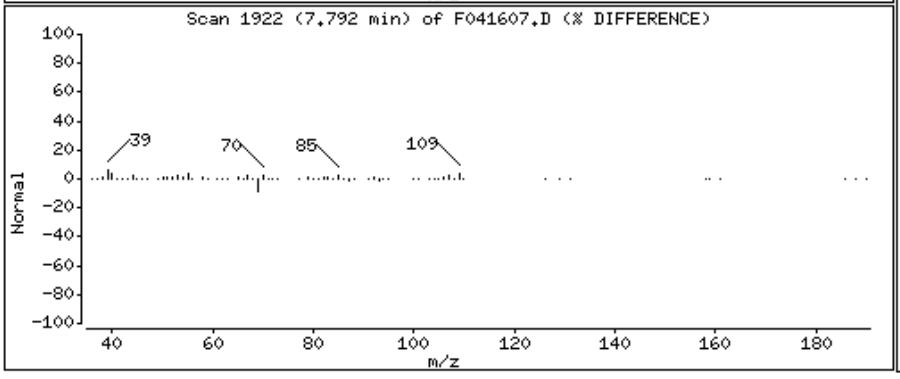












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 102

Date : 16-APR-2024 13:26

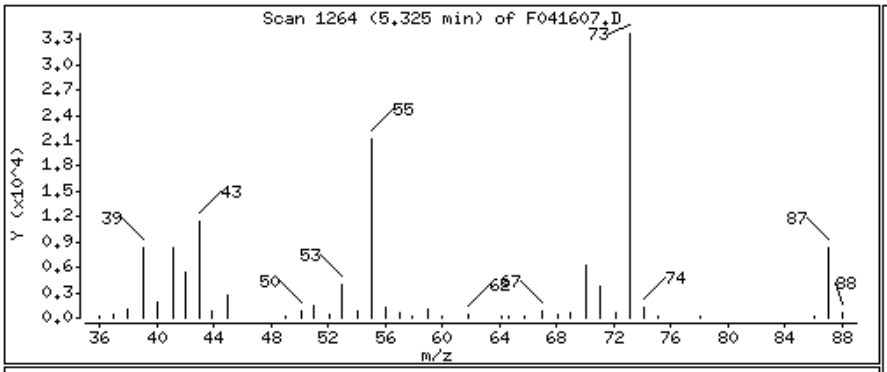
Client ID: VSTD010 Instrument: voa11.i

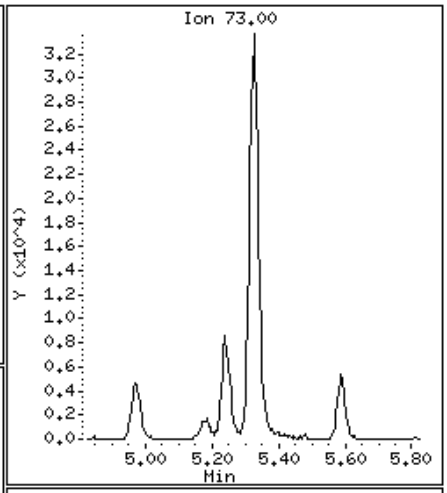
Sample Info: VSTD010;VSTD010;1;6;

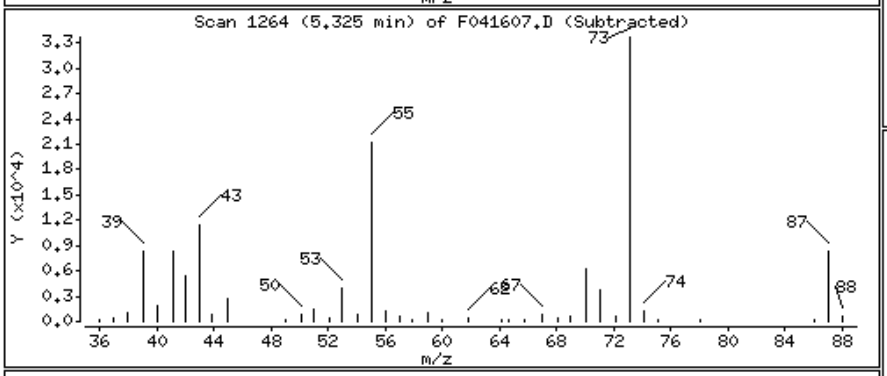
Purge Volume: 5.0 Operator: FT

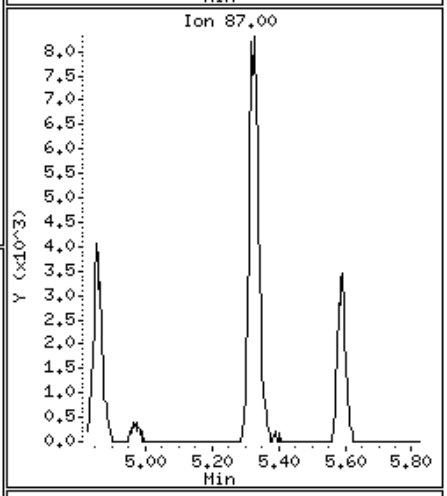
Column phase: DB624 Column diameter: 0.18

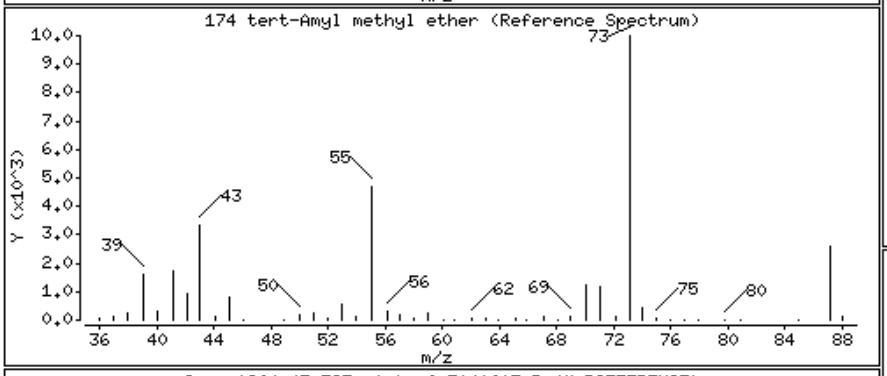
174 tert-Amyl methyl ether Concentration: 9.65 ug/l

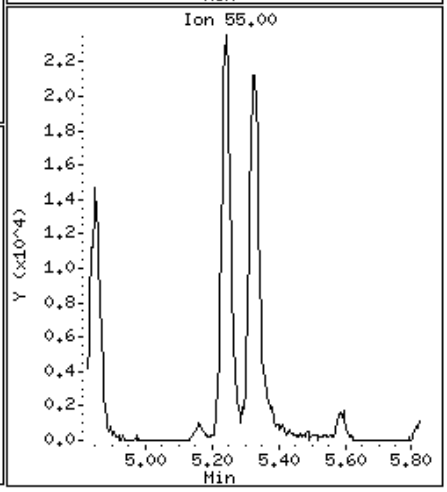


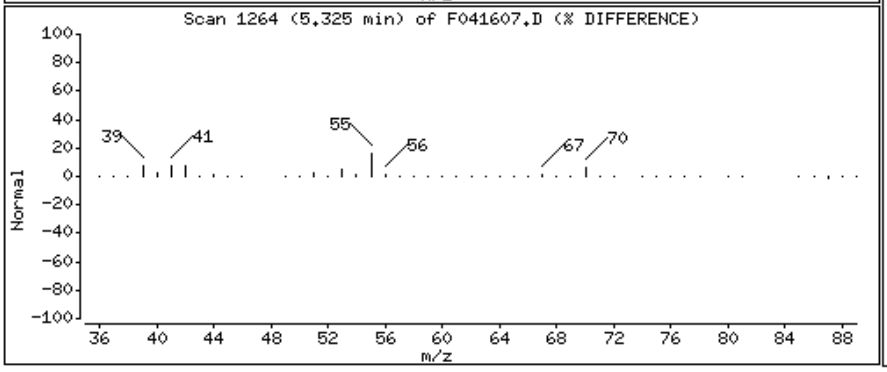












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 103

Date : 16-APR-2024 13:26

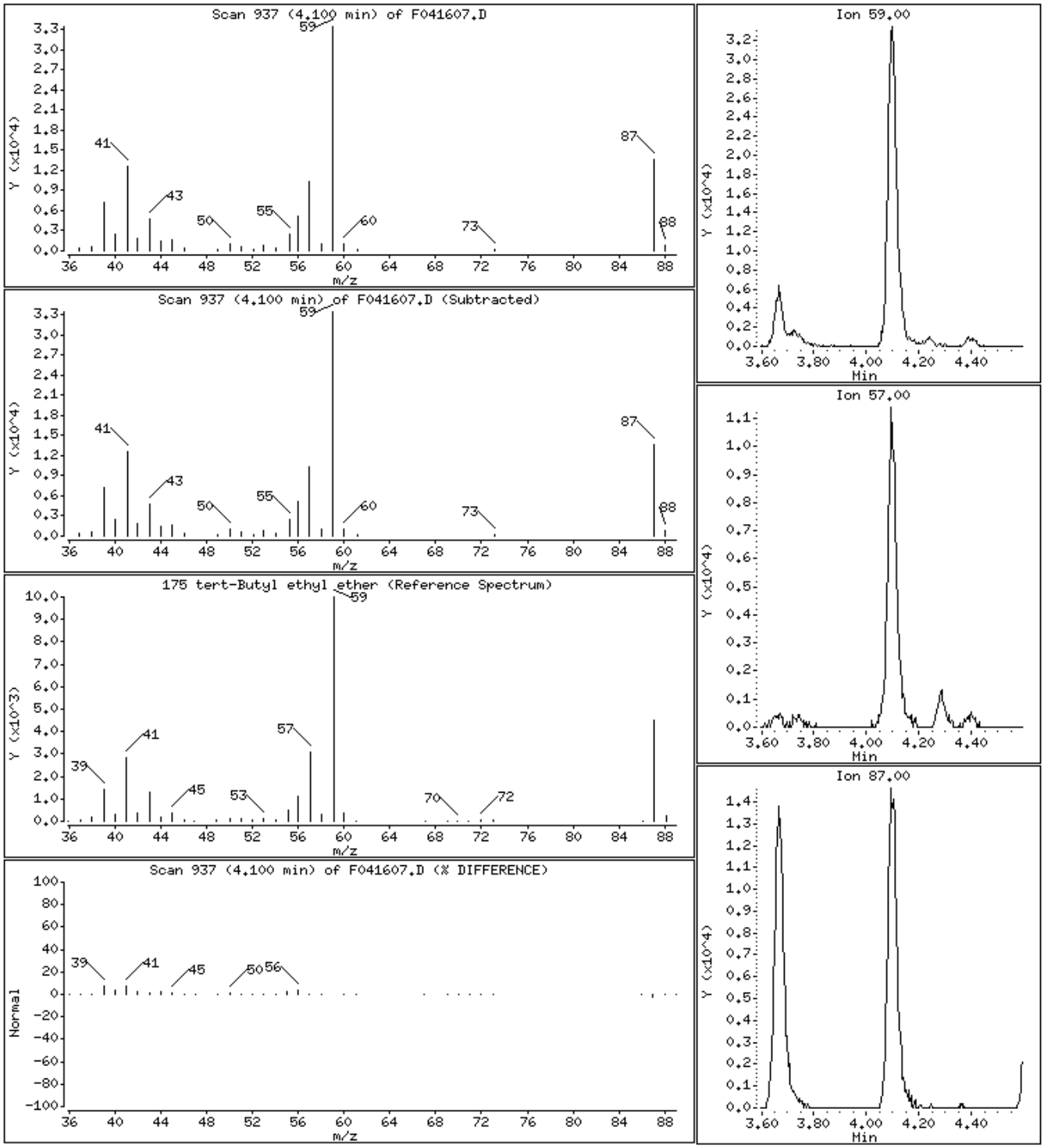
Client ID: VSTD010 Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0 Operator: FT

Column phase: DB624 Column diameter: 0.18

175 tert-Butyl ethyl ether Concentration: 10.16 ug/l



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D

Date : 16-APR-2024 13:26

Client ID: VSTD010

Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0

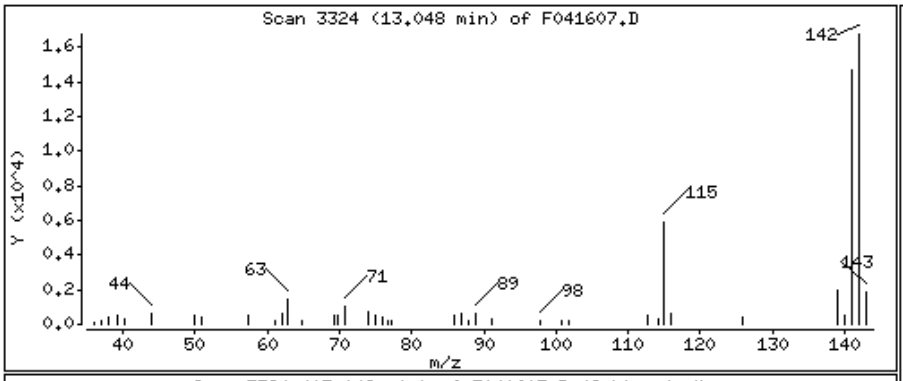
Operator: FT

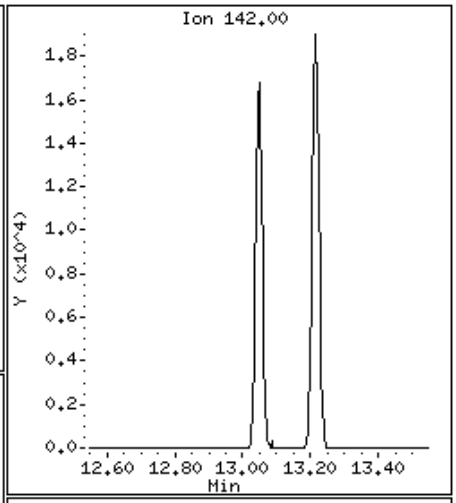
Column phase: DB624

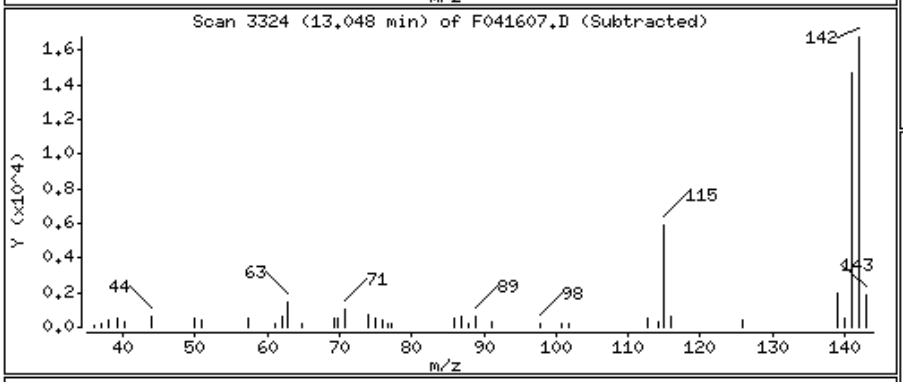
Column diameter: 0.18

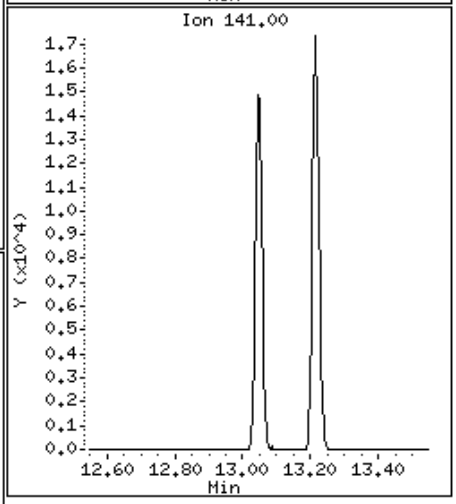
160 2-Methylnaphthalene

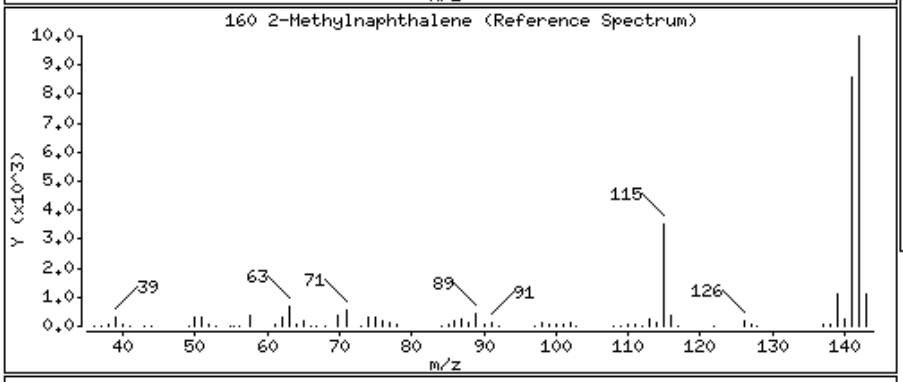
Concentration: 7.71 ug/l

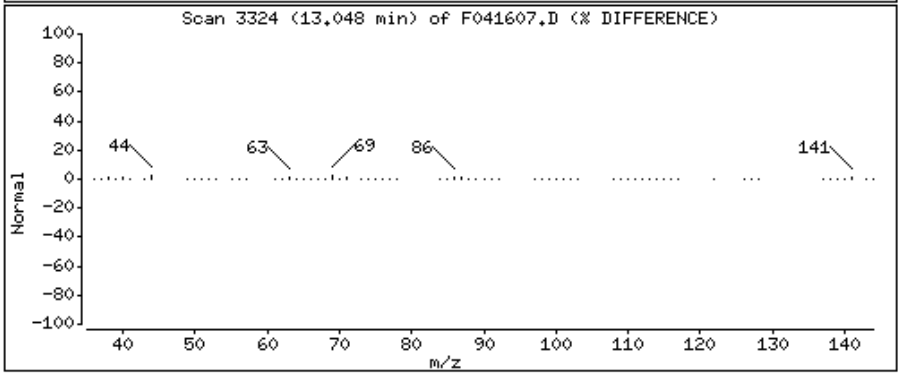












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 105

Date : 16-APR-2024 13:26

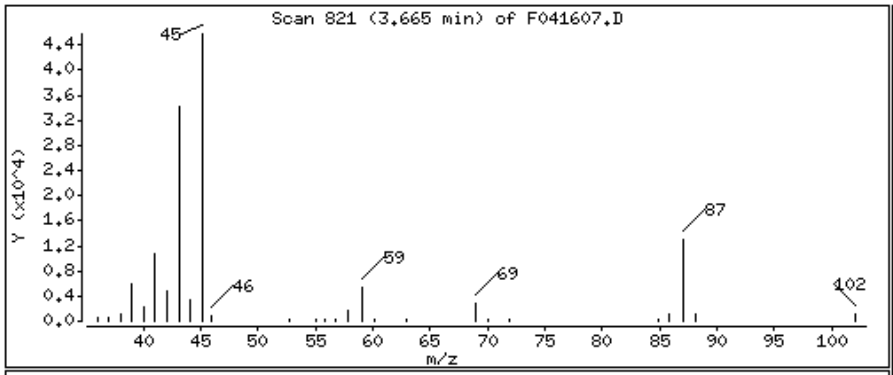
Client ID: VSTD010 Instrument: voa11.i

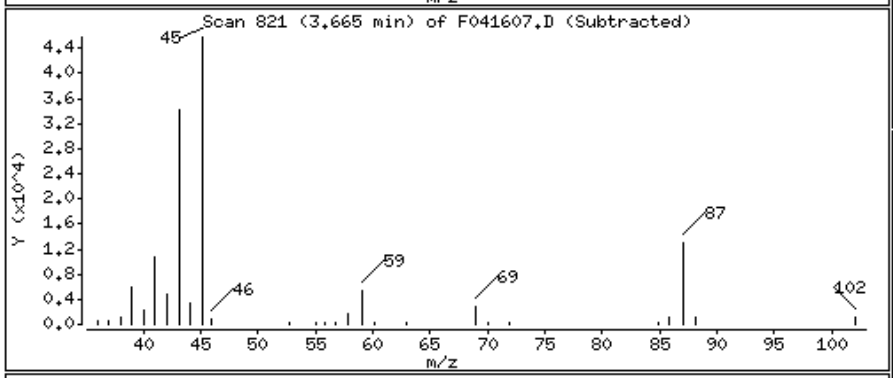
Sample Info: VSTD010;VSTD010;1;6;

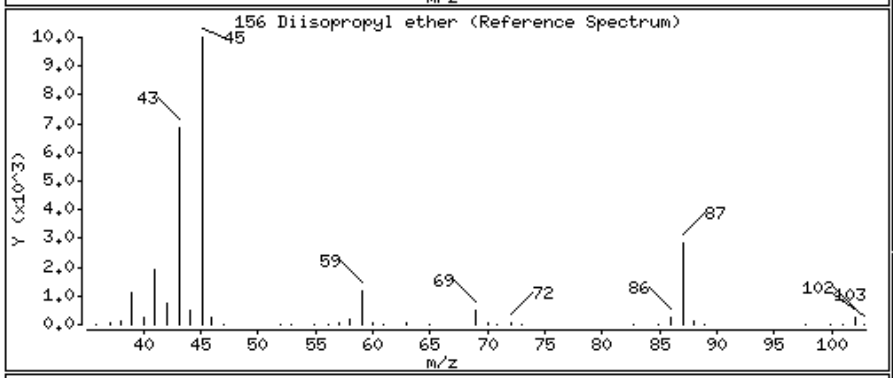
Purge Volume: 5.0 Operator: FT

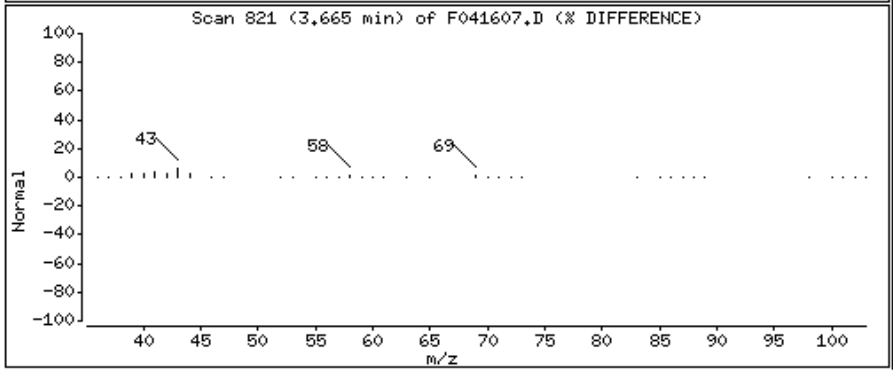
Column phase: DB624 Column diameter: 0.18

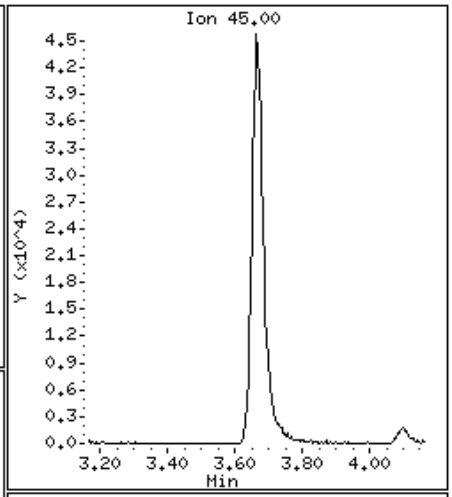
156 Diisopropyl ether Concentration: 9.46 ug/l

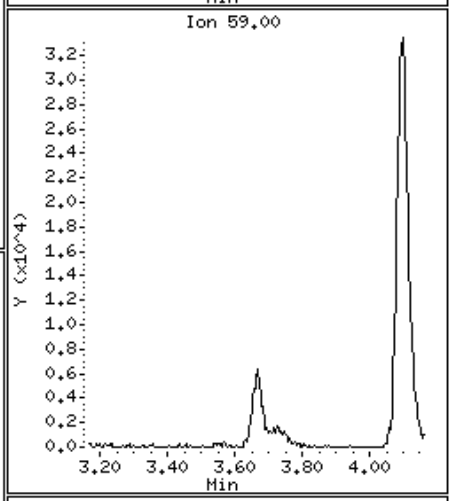


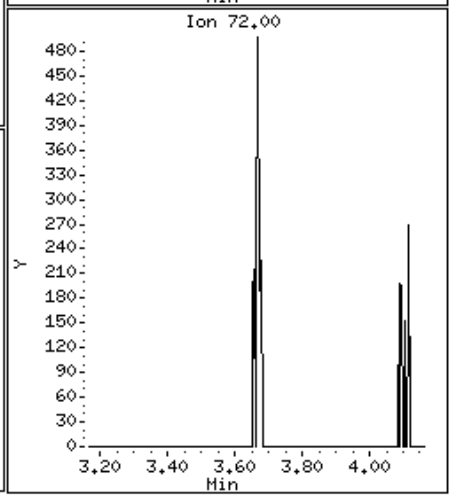












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 106

Date : 16-APR-2024 13:26

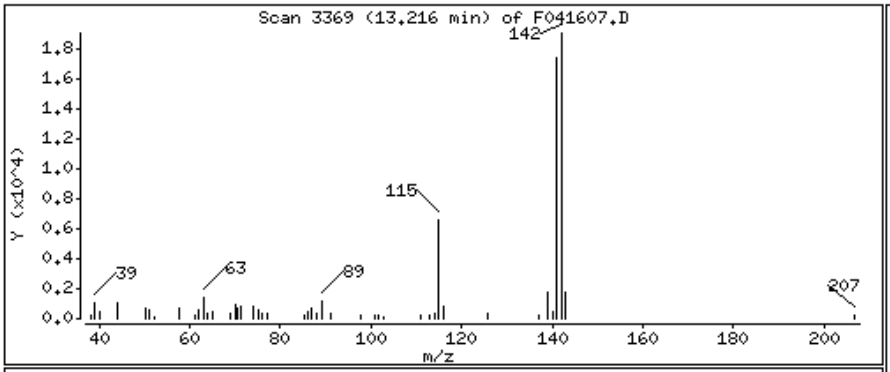
Client ID: VSTD010 Instrument: voa11.i

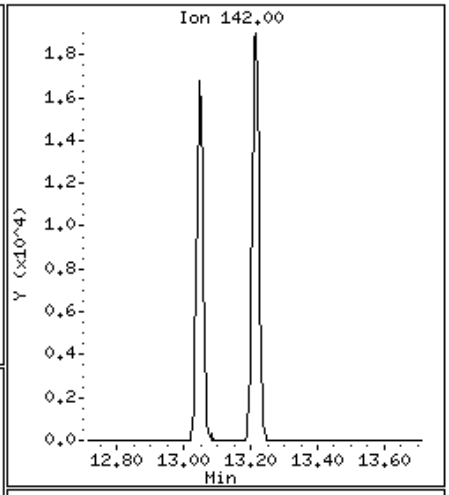
Sample Info: VSTD010;VSTD010;1;6;

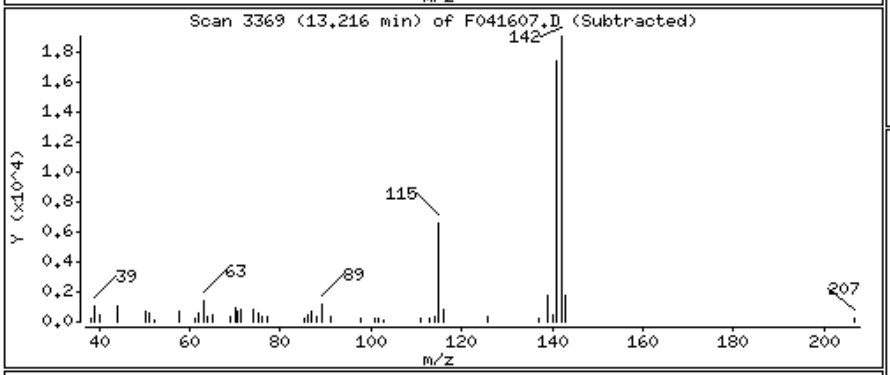
Purge Volume: 5.0 Operator: FT

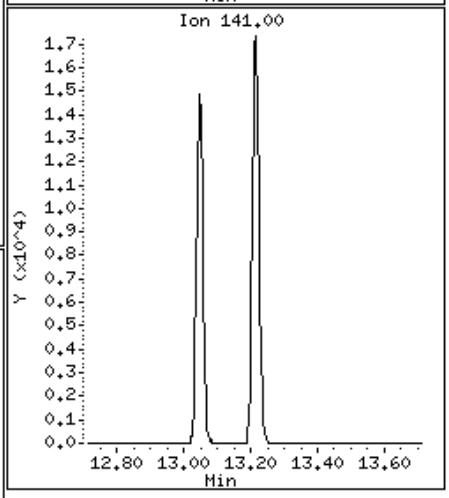
Column phase: DB624 Column diameter: 0.18

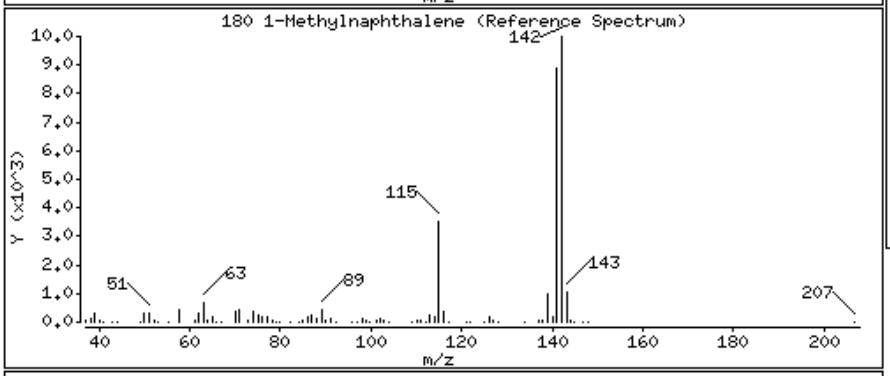
180 1-Methylnaphthalene Concentration: 7.55 ug/l

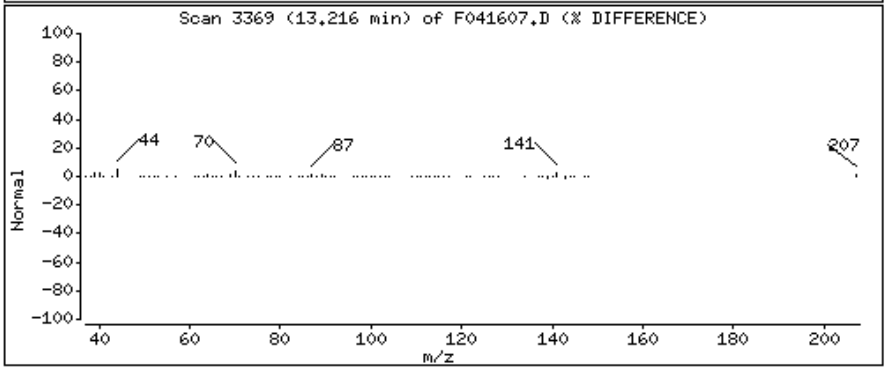












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 107

Date : 16-APR-2024 13:26

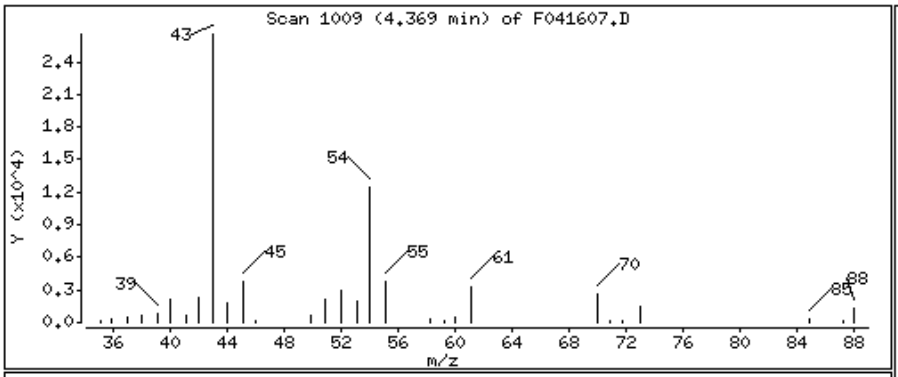
Client ID: VSTD010 Instrument: voa11.i

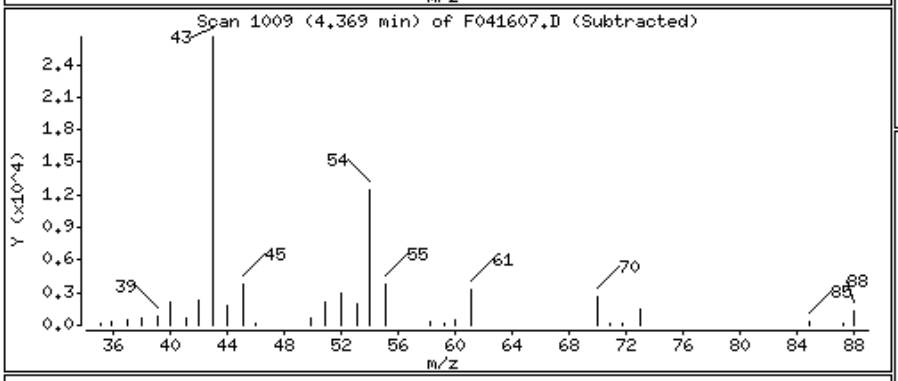
Sample Info: VSTD010;VSTD010;1;6;

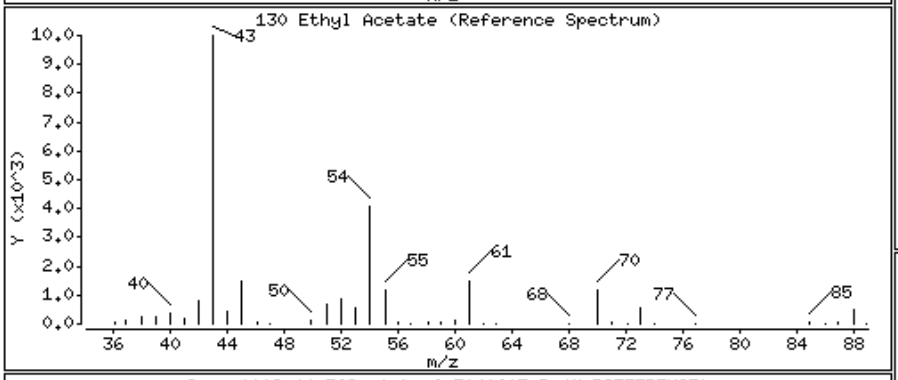
Purge Volume: 5.0 Operator: FT

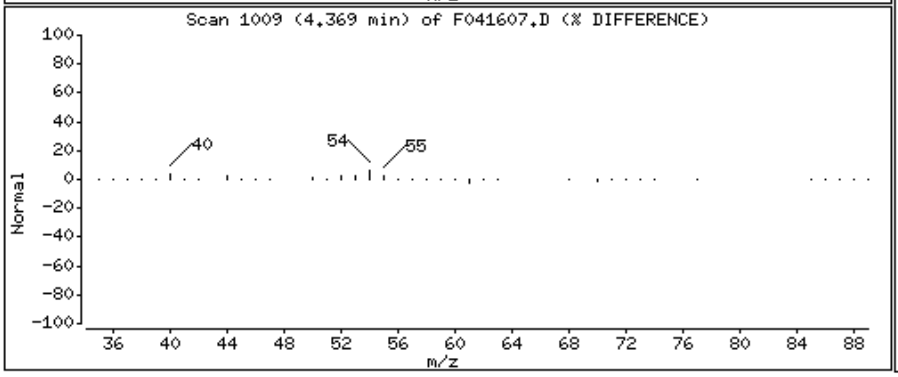
Column phase: DB624 Column diameter: 0.18

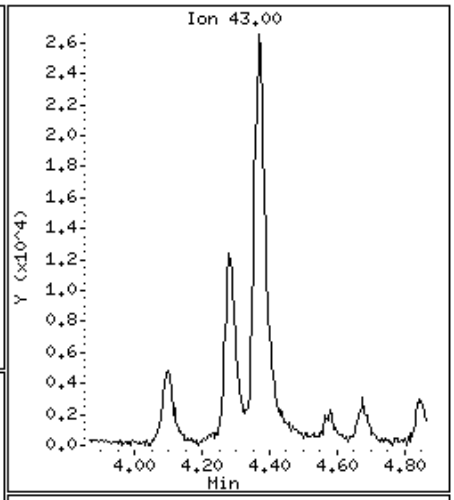
130 Ethyl Acetate Concentration: 10.25 ug/l

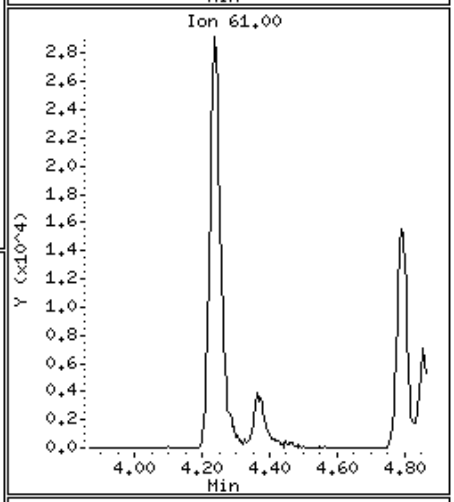


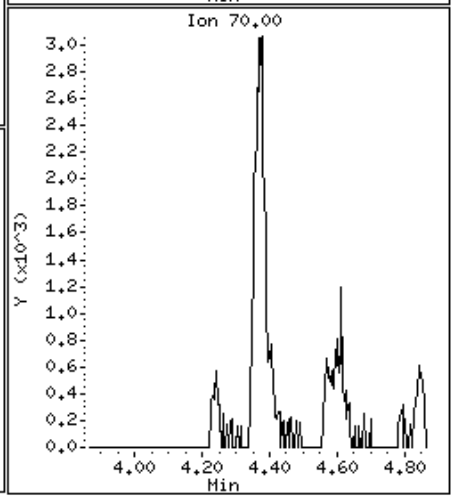












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D Page 108

Date : 16-APR-2024 13:26

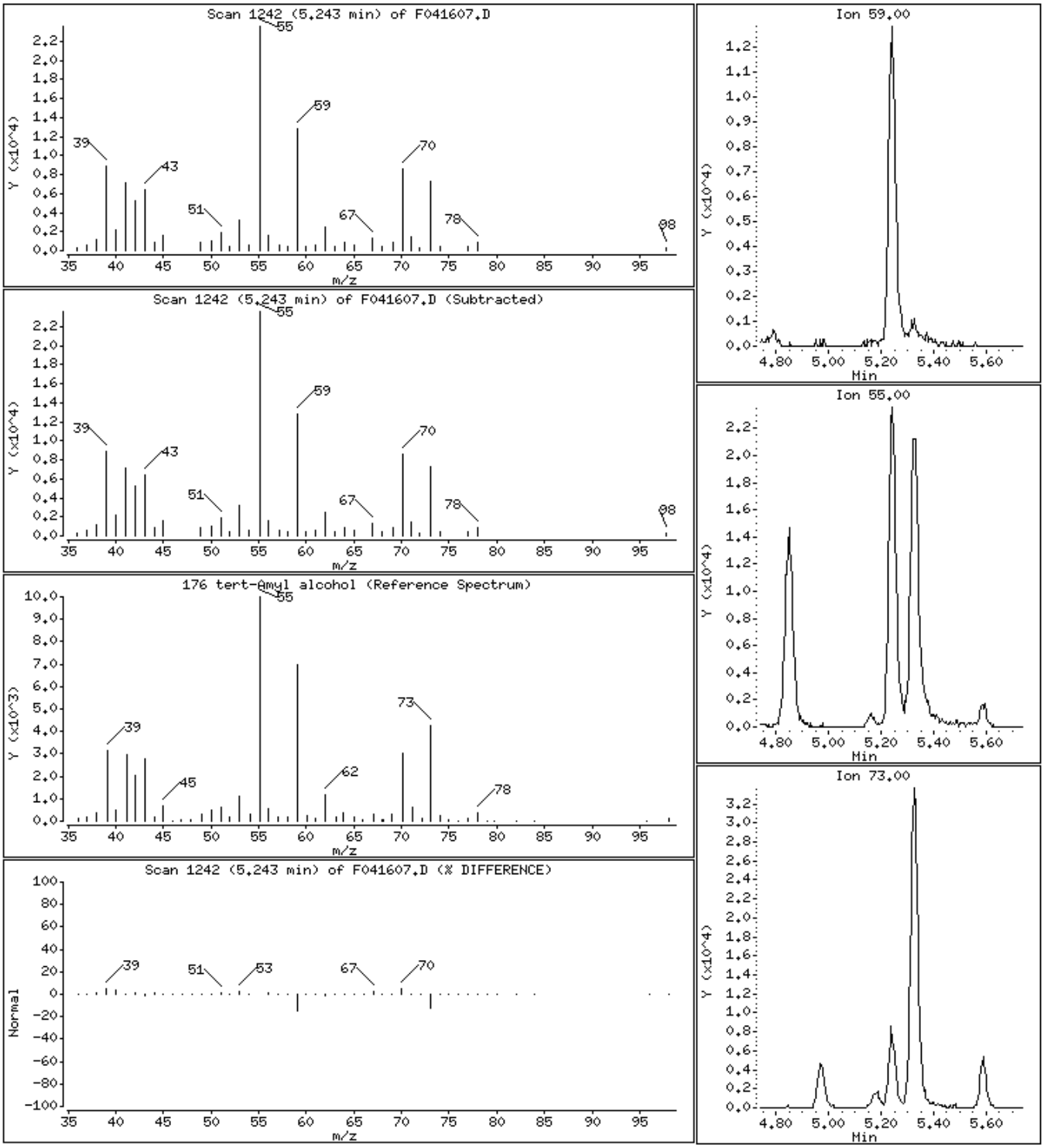
Client ID: VSTD010 Instrument: voa11.i

Sample Info: VSTD010;VSTD010;1;6;

Purge Volume: 5.0 Operator: FT

Column phase: DB624 Column diameter: 0.18

176 tert-Amyl alcohol Concentration: 178.35 ug/l

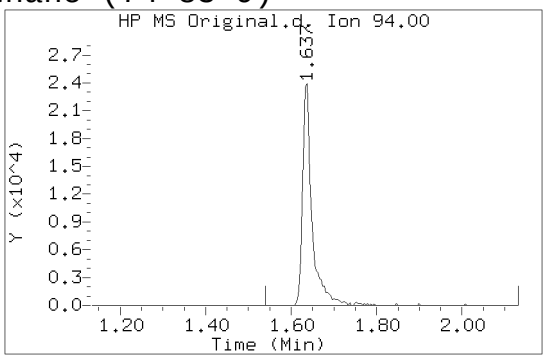


Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D
Inj Date : 16-APR-2024 13:26
InstruID : voa11.i
LabSampID : VSTD010

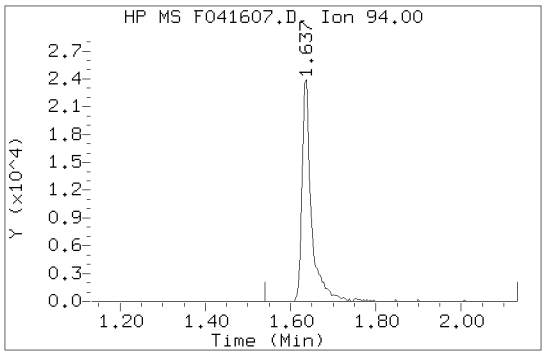
Bromomethane (74-83-9)

Reason Code:

BEFORE
MASS
94
AREA
37896
HEIGHT
23912
22-Apr-2024
09:21
salina
zaid



AFTER
MASS
94
AREA
37896
HEIGHT
23912
22-May-2024
10:44



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34315
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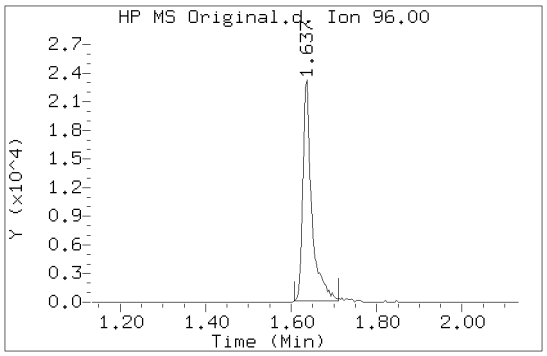
23137
22-Apr-2024
09:21
salina
zaid



AFTER
MASS
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HEIGHT
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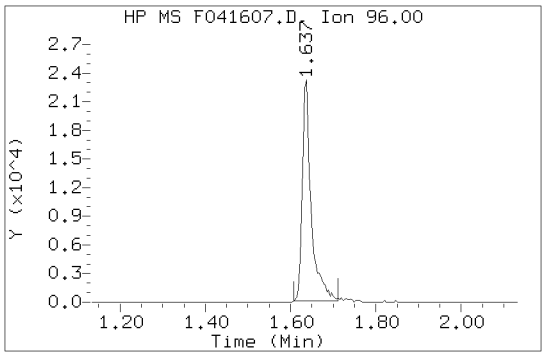
22-May-2024
10:44



Acrolein (107-02-8)

Reason Code:

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AREA
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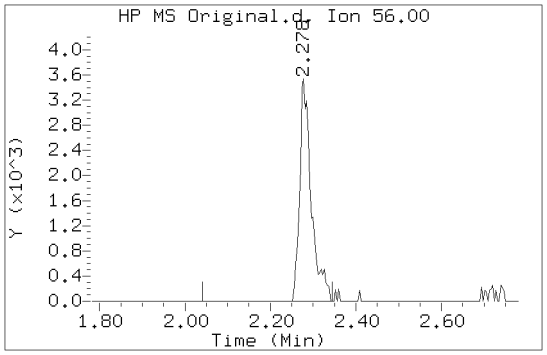
HEIGHT
3537
22-Apr-2024
09:21
salina
zaid



AFTER
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AREA
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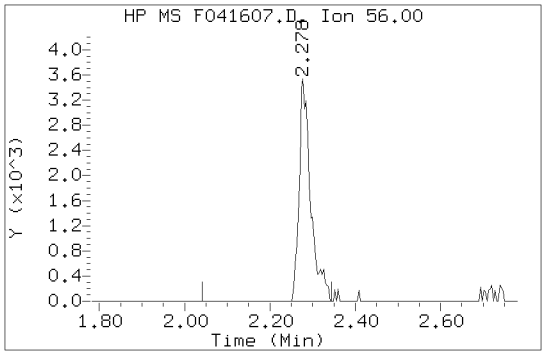
HEIGHT
3537
22-May-2024
10:44



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22-Apr-2024
09:21
salina
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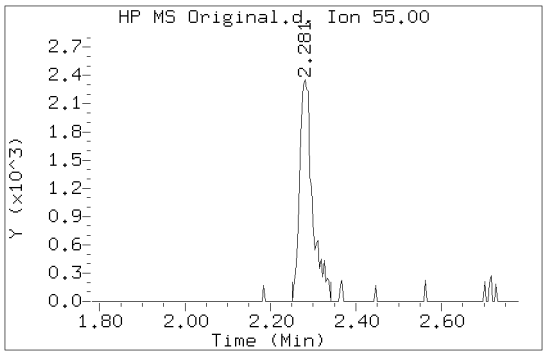

AFTER
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22-May-2024
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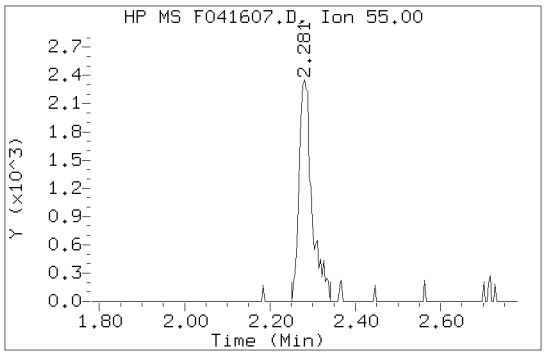

Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D
Inj Date : 16-APR-2024 13:26
InstruID : voa11.i
LabSampID : VSTD010

Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE

MASS
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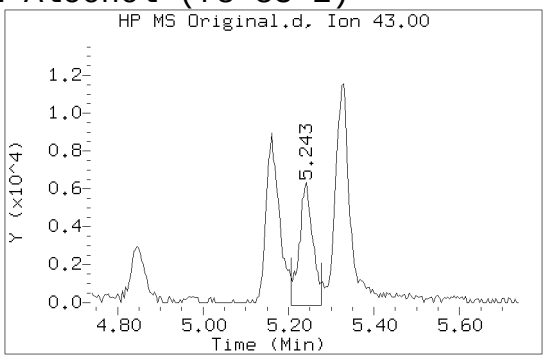
6488
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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AREA
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HEIGHT
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22-May-2024
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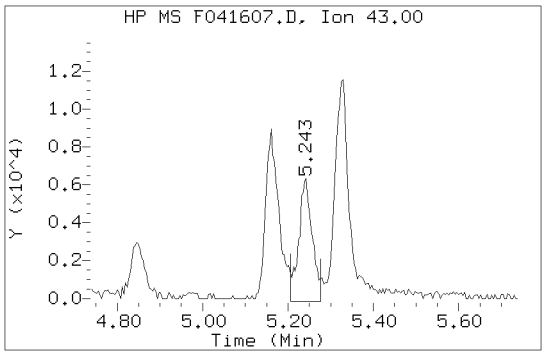

BEFORE

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22-Apr-2024
09:21
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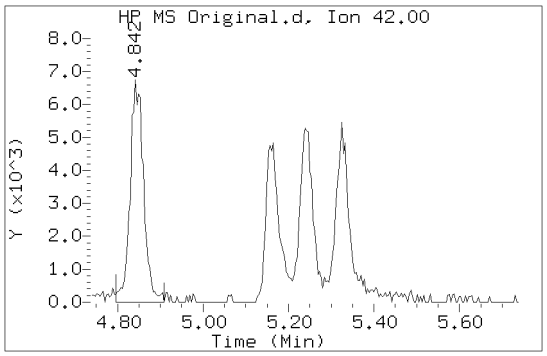
zaid



AFTER

MASS
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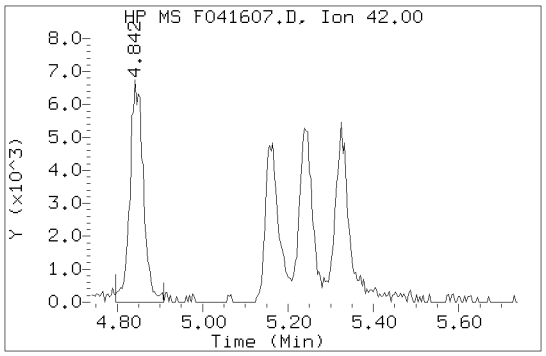
22-May-2024
10:44



BEFORE

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22-Apr-2024
09:21
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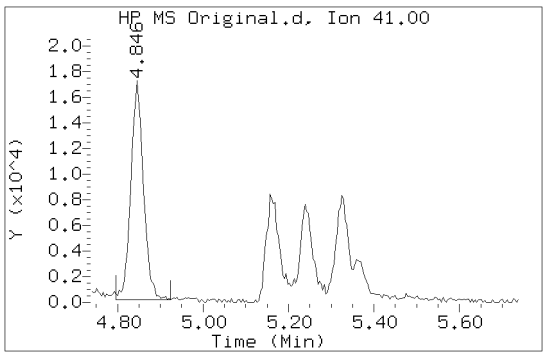

AFTER

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HEIGHT
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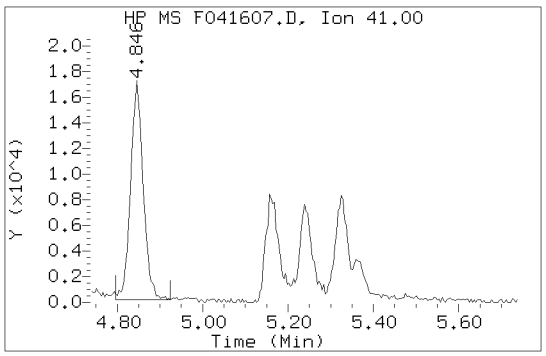
22-May-2024
10:44



tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

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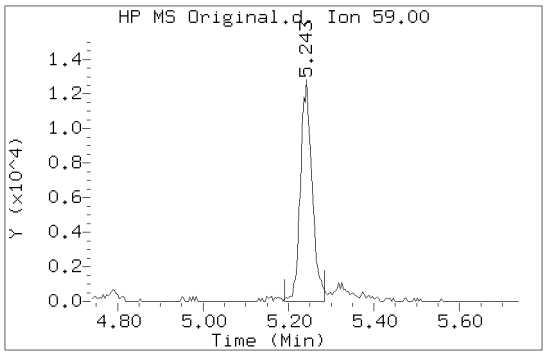
HEIGHT
12827
22-Apr-2024
09:21
salina
zaid



AFTER

MASS
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AREA
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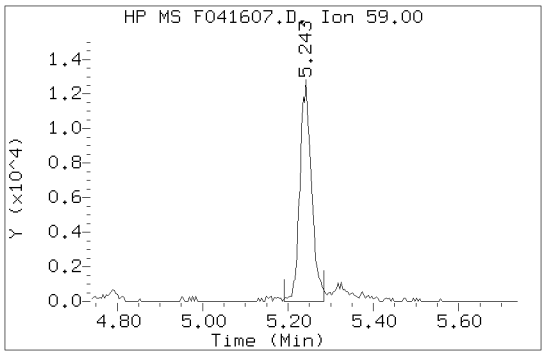
HEIGHT
12827
22-May-2024
10:44



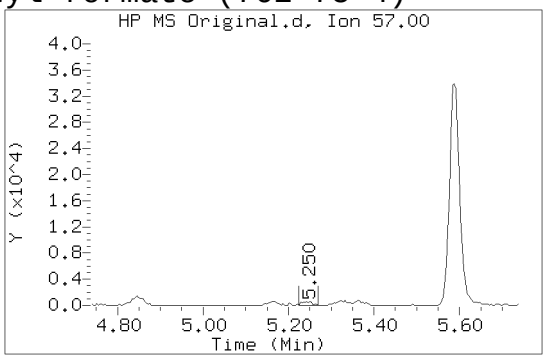
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041607.D
Inj Date : 16-APR-2024 13:26
InstruID : voa11.i
LabSampID : VSTD010

tert-Butyl formate (762-75-4)

Reason Code:

BEFORE

MASS
57
AREA
939
HEIGHT
580
22-Apr-2024
09:21
salina
zaid



AFTER

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AREA
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HEIGHT
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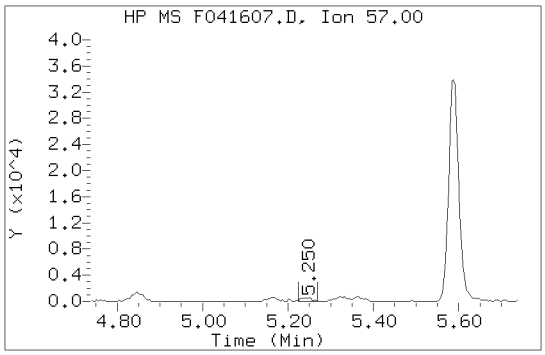
22-May-2024
10:44



BEFORE

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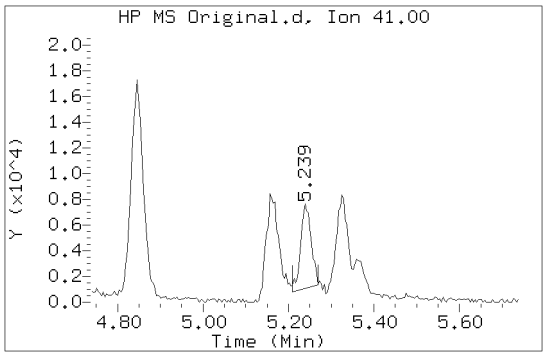
09:21
salina
zaid



AFTER

MASS
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HEIGHT
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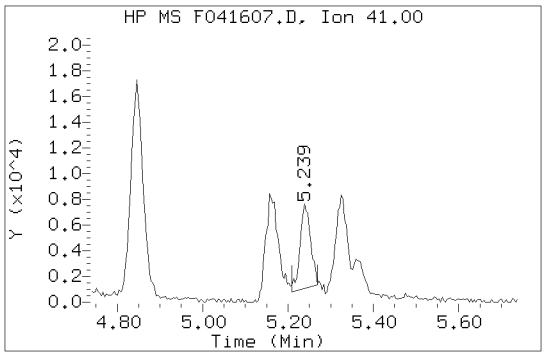
22-May-2024
10:44



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041608.D Page 1
Report Date: 22-Apr-2024 09:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041608.D
Lab Smp Id: VSTD020 Client Smp ID: VSTD020
Inj Date : 16-APR-2024 13:49
Operator : FT Inst ID: voa11.i
Smp Info : VSTD020;VSTD020;1;7;
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 09:22 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 13:26 Cal File: F041607.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.856	4.856	(1.000)	508849	50.0000	
2	Dichlorodifluoromethane	85	1.175	1.175	(0.242)	108239	20.0000	19.41
3	Chloromethane	50	1.306	1.306	(0.269)	185481	20.0000	18.88
4	Propionitrile	54	4.339	4.339	(0.893)	265472	200.000	206.25
5	Vinyl Chloride	62	1.389	1.389	(0.286)	107537	20.0000	19.82
6	Bromomethane	94	1.632	1.632	(0.336)	74303	20.0000	23.13(M)
7	Chloroethane	64	1.718	1.718	(0.354)	70465	20.0000	20.21
8	Trichlorofluoromethane	101	1.921	1.921	(0.396)	177639	20.0000	20.56
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	173257	20.0000	20.28
9	Acrolein	56	2.281	2.281	(0.470)	16645	40.0000	39.23(M)
10	Acetone	43	2.419	2.419	(0.498)	54734	40.0000	40.52
11	1,1-Dichloroethene	96	2.363	2.363	(0.487)	88034	20.0000	20.45
12	Isobutyl Alcohol	43	5.238	5.238	(1.079)	32637	400.000	427.28(M)
13	Acetonitrile	39	2.704	2.704	(0.557)	113133	200.000	192.03
14	Allyl Chloride	41	2.701	2.701	(0.556)	174579	20.0000	15.63
15	Iodomethane	142	2.494	2.494	(0.514)	65560	40.0000	32.09
16	Acrylonitrile	53	3.079	3.079	(0.634)	67714	40.0000	36.93
17	Methylene Chloride	84	2.824	2.824	(0.582)	111359	20.0000	19.79
18	Methyl tert-butyl ether	73	3.117	3.117	(0.642)	182852	20.0000	17.14
19	Carbon Disulfide	76	2.554	2.554	(0.526)	542367	40.0000	41.43

20 trans-1,2-Dichloroethene	96	3.102	3.102 (0.639)	90849	20.0000	19.23
21 Vinyl Acetate	43	3.653	3.653 (0.752)	293612	40.0000	35.30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	22 1,1-Dichloroethane	63	3.555	3.555	(0.732)	151647	20.0000	18.99
	24 2-Butanone	43	4.279	4.279	(0.881)	62983	40.0000	36.70
	25 Methacrylonitrile	41	4.230	4.230	(0.871)	74109	20.0000	19.58
	26 2,2-Dichloropropane	77	4.230	4.230	(0.871)	89634	20.0000	17.74
	27 cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	99725	20.0000	19.73
	28 Chloroform	83	4.609	4.609	(0.949)	181939	20.0000	19.73
	29 Bromochloromethane	128	4.504	4.504	(0.927)	54586	20.0000	19.53
$	30 Dibromofluoromethane	113	4.777	4.777	(0.984)	95398	20.0000	19.41
	31 1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	150090	20.0000	20.62
	32 1,1-Dichloropropene	75	4.972	4.972	(0.890)	117368	20.0000	21.69
	33 1,2-Dichloroethane	62	5.205	5.205	(0.932)	161385	20.0000	22.61
	34 Carbon Tetrachloride	117	4.965	4.965	(0.889)	126005	20.0000	22.04
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	126240	20.0000	20.58
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	685302	50.0000	
	37 Benzene	78	5.182	5.182	(0.928)	389415	20.0000	23.19
	38 Trichloroethene	130	5.827	5.827	(1.043)	116891	20.0000	23.31
	39 Bromodichloromethane	83	6.307	6.307	(1.129)	125512	20.0000	21.86
	40 Methyl Methacrylate	41	6.183	6.183	(1.273)	141838	20.0000	18.81
	41 2-Chloroethylvinyl ether	63	6.603	6.603	(1.182)	89899	40.0000	35.83
	42 1,2-Dichloropropane	63	6.041	6.041	(1.081)	98601	20.0000	22.87
	43 2-Nitropropane	43	7.229	7.229	(1.489)	121035	20.0000	22.72
	44 Dibromomethane	93	6.146	6.146	(1.100)	71146	20.0000	22.73
	45 4-Methyl-2-Pentanone	43	6.877	6.877	(0.837)	131593	40.0000	40.30
	46 cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	121506	20.0000	18.68
*	47 Chlorobenzene-d5	117	8.215	8.215	(1.000)	669495	50.0000	
$	48 Toluene-d8	98	6.955	6.955	(0.847)	345353	20.0000	21.73
	49 Ethyl Methacrylate	69	7.319	7.319	(1.310)	112252	20.0000	20.06
	50 Toluene	91	7.015	7.015	(0.854)	401065	20.0000	20.75
	51 trans-1,3-Dichloropropene	75	7.221	7.221	(1.293)	106160	20.0000	19.50
	52 2-Hexanone	43	7.229	7.229	(0.880)	121035	40.0000	48.31
	53 1,1,2-Trichloroethane	83	7.375	7.375	(0.898)	79155	20.0000	20.70
	54 1,3-Dichloropropane	76	7.521	7.521	(0.916)	177079	20.0000	23.27
	55 Dibromochloromethane	129	7.716	7.716	(0.939)	100656	20.0000	20.19
	56 Tetrachloroethene	164	7.495	7.495	(0.912)	101482	20.0000	22.59
	57 1,2-Dibromoethane	107	7.806	7.806	(0.950)	110205	20.0000	22.01
	58 1-Chlorohexane	55	8.230	8.230	(1.473)	89813	20.0000	21.47
	59 Chlorobenzene	112	8.237	8.237	(1.003)	298576	20.0000	20.92
	60 1,1,1,2-Tetrachloroethane	131	8.312	8.312	(1.012)	97308	20.0000	21.64
	61 Ethylbenzene	106	8.339	8.339	(1.015)	140541	20.0000	22.35
	62 m,p-Xylenes	106	8.440	8.440	(1.027)	356725	40.0000	41.70
	63 o-Xylene	106	8.777	8.777	(1.068)	164363	20.0000	20.34
	64 Styrene	104	8.788	8.788	(1.070)	283377	20.0000	20.42
	66 Bromoform	173	8.938	8.938	(1.088)	49592	20.0000	19.09
	67 Isopropylbenzene	105	9.096	9.096	(1.107)	414956	20.0000	20.15
	68 1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	127860	20.0000	20.63
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.122)	123525	20.0000	19.70
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	370003	50.0000	
	71 1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	115408	20.0000	20.83
	72 trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	22617	20.0000	20.27
	73 n-Propylbenzene	91	9.444	9.444	(0.926)	508436	20.0000	21.28
	74 Bromobenzene	156	9.343	9.343	(0.916)	119088	20.0000	20.35
	75 1,3,5-Trimethylbenzene	105	9.594	9.594	(0.941)	380302	20.0000	20.47

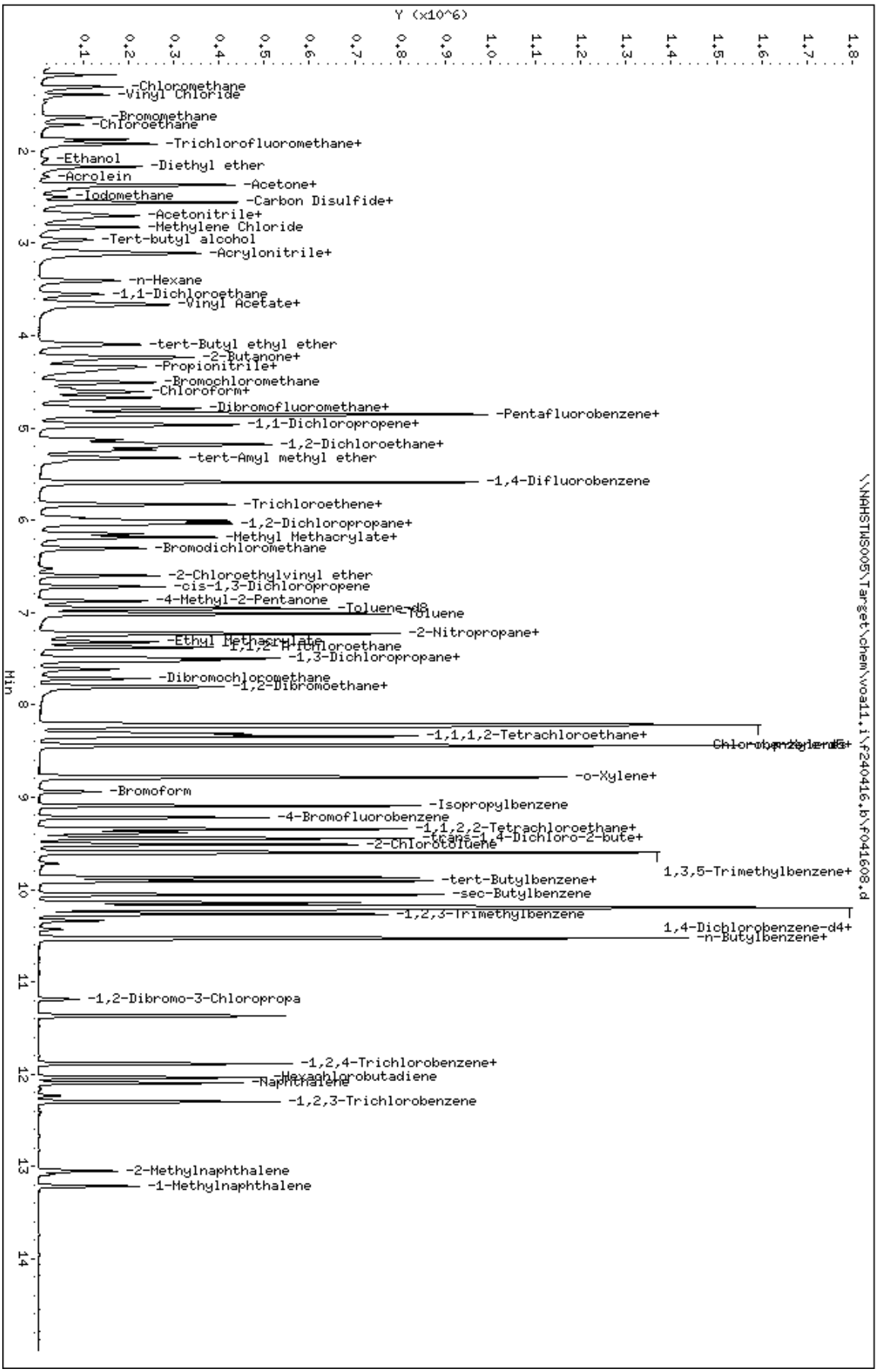
76	2-Chlorotoluene	91	9.512	9.512 (0.933)	318498	20.0000	21.53
77	4-Chlorotoluene	91	9.606	9.606 (0.942)	382430	20.0000	21.12

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041608.D Page 3
Report Date: 22-Apr-2024 09:22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.868	9.868	(0.968)	313909	20.0000	20.20
79	1,2,4-Trimethylbenzene	105	9.909	9.909	(0.972)	377112	20.0000	20.92
81	sec-Butylbenzene	105	10.055	10.055	(0.986)	453246	20.0000	20.71
82	p-Isopropyltoluene	119	10.179	10.179	(0.998)	401916	20.0000	20.46
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	233592	20.0000	22.44
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	244647	20.0000	20.54
87	n-Butylbenzene	91	10.524	10.524	(1.032)	335060	20.0000	20.31
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	236812	20.0000	22.25
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.188	(1.097)	14460	20.0000	19.83
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	139087	20.0000	21.96
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	75985	20.0000	21.40
92	Naphthalene	128	12.095	12.095	(1.186)	277978	20.0000	18.97
93	1,2,3-Trichlorobenzene	180	12.297	12.297	(1.206)	129909	20.0000	20.38
146	Methyl acetate	43	2.734	2.734	(0.563)	100833	20.0000	20.06
138	Freon TF	101	2.374	2.374	(0.489)	104489	20.0000	20.15
139	Diethyl ether	59	2.172	2.172	(0.447)	122934	20.0000	20.41
141	Cyclohexane	56	4.845	4.845	(0.998)	141826	20.0000	20.01
147	Methylcyclohexane	55	6.007	6.007	(1.075)	122140	20.0000	23.23
132	n-Butanol	56	5.823	5.823	(1.199)	27174	400.000	396.99
131	Methyl Acrylate	55	4.395	4.395	(0.905)	82763	20.0000	18.98
133	Ethyl Acrylate	55	5.969	5.969	(1.229)	81805	20.0000	16.65
135	1,4-Dioxane	88	6.187	6.187	(1.274)	21077	400.000	416.55(A)
136	n-Hexane	57	3.405	3.405	(0.701)	85274	20.0000	17.31
142	Tetrahydrofuran	42	4.571	4.571	(0.941)	43833	40.0000	37.85
148	Tert-butyl alcohol	59	2.963	2.963	(0.610)	88871	400.000	376.89
149	Isopropyl alcohol	45	2.566	2.566	(0.528)	76612	400.000	406.09
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	235356	400.000	428.32
166	1,2,3-Trimethylbenzene	105	10.265	10.265	(1.007)	346137	20.0000	20.86
167	Ethanol	45	2.090	2.090	(0.430)	18989	400.000	441.50
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	139087	20.0000	21.96
172	tert-Butyl formate	59	5.238	5.238	(1.079)	59065	40.0000	38.71(H)
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	133062	400.000	474.62
174	tert-Amyl methyl ether	73	5.325	5.325	(1.096)	163886	20.0000	17.47
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	180101	20.0000	17.27
160	2-Methylnaphthalene	142	13.051	13.051	(1.280)	70459	20.0000	16.18
156	Diisopropyl ether	45	3.664	3.664	(0.755)	246734	20.0000	18.22
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	88171	20.0000	18.47
130	Ethyl Acetate	43	4.369	4.369	(0.900)	150564	20.0000	18.50
176	tert-Amyl alcohol	59	5.238	5.238	(1.079)	59065	400.000	389.20(A)

QC Flag Legend

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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Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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LabSampID : VSTD020

Bromomethane (74-83-9)

Reason Code:

BEFORE

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22-Apr-2024
09:21
salina
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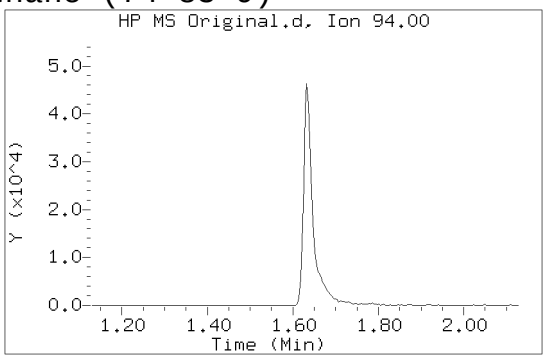

AFTER

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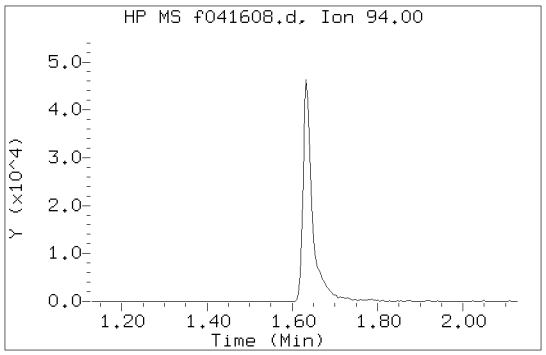

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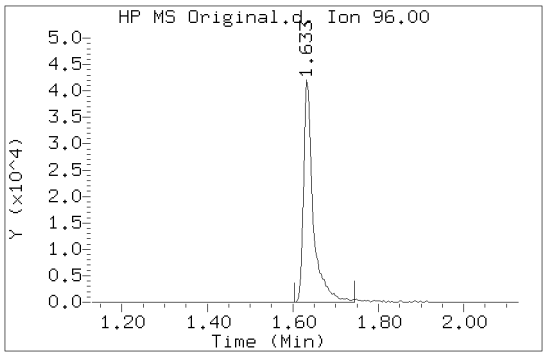

AFTER

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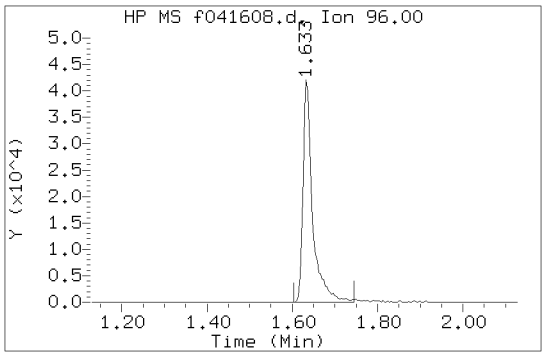

Acrolein (107-02-8)

Reason Code:

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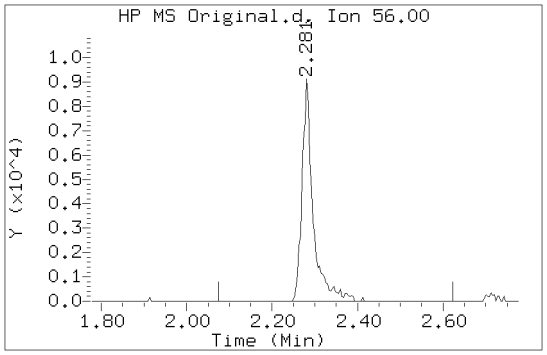

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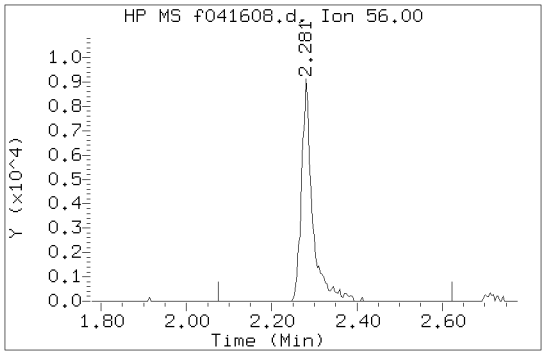

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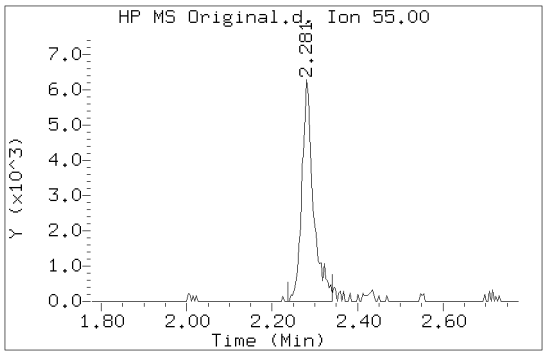

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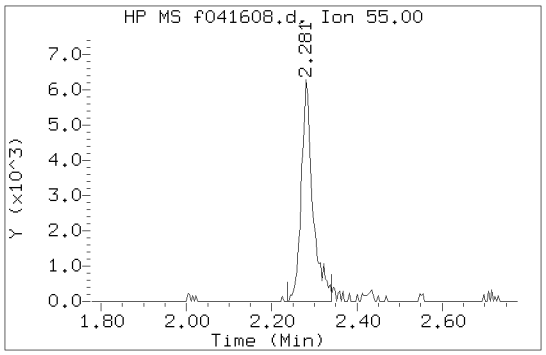

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LabSampID : VSTD020

Isobutyl Alcohol (78-83-1)

Reason Code:

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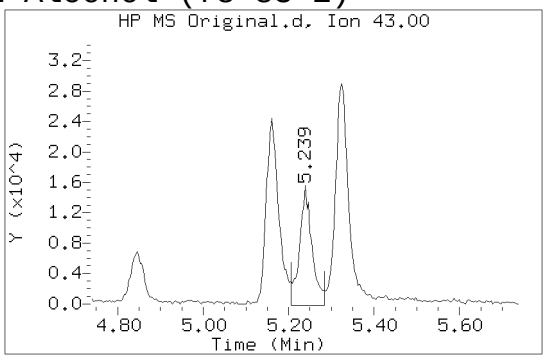

AFTER

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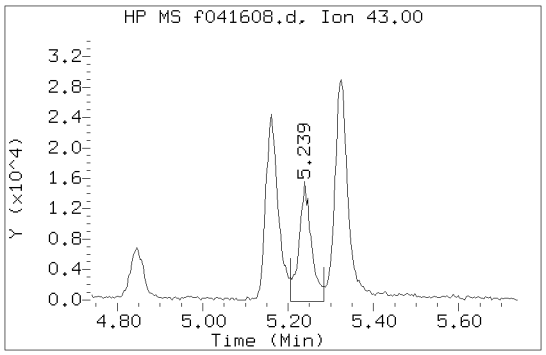

BEFORE

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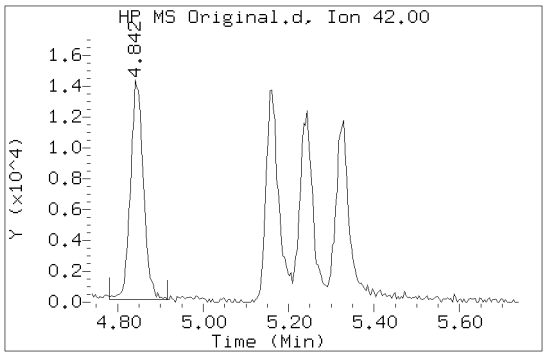

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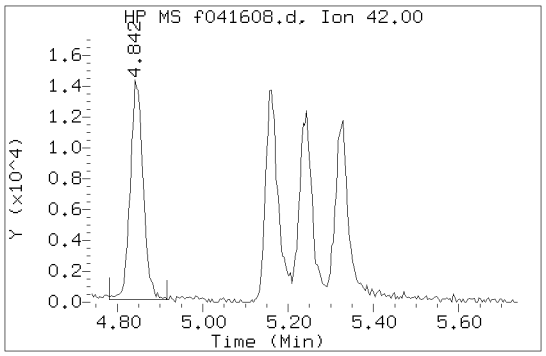

BEFORE

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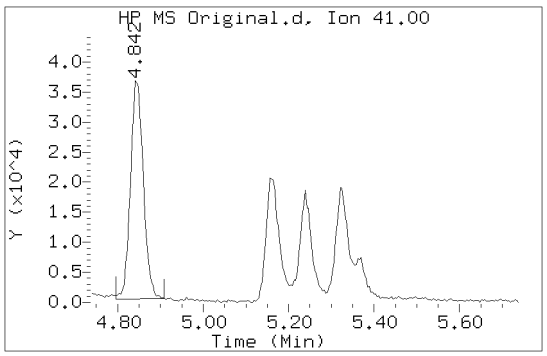

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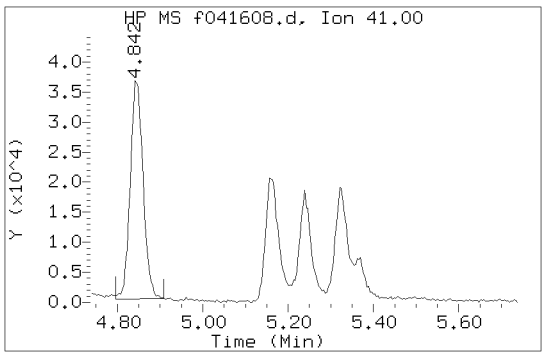

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Report Date: 22-Apr-2024 09:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041609.D
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Inj Date : 16-APR-2024 14:11
Operator : FT Inst ID: voa11.i
Smp Info : VSTD050;VSTD050;1;8;
Misc Info : V11;WATER;0;1;
Comment :
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Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.856	4.856	(1.000)	592110	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.241)	301130	50.0000	46.41
3	Chloromethane	50	1.306	1.306	(0.269)	499782	50.0000	43.73
4	Propionitrile	54	4.339	4.339	(0.893)	770963	500.000	514.74
5	Vinyl Chloride	62	1.389	1.389	(0.286)	289430	50.0000	45.84
6	Bromomethane	94	1.633	1.633	(0.336)	173218	50.0000	46.99(M)
7	Chloroethane	64	1.715	1.715	(0.353)	177164	50.0000	43.67
8	Trichlorofluoromethane	101	1.921	1.921	(0.396)	446576	50.0000	44.43
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	434559	50.0000	43.71
9	Acrolein	56	2.277	2.277	(0.469)	48324	100.000	90.49(M)
10	Acetone	43	2.420	2.420	(0.498)	141774	100.000	85.56
11	1,1-Dichloroethene	96	2.364	2.364	(0.487)	238629	50.0000	47.65
12	Isobutyl Alcohol	43	5.239	5.239	(1.079)	94318	1000.00	1040.26(M)
13	Acetonitrile	39	2.705	2.705	(0.557)	325149	500.000	458.05
14	Allyl Chloride	41	2.705	2.705	(0.557)	664155	50.0000	46.05
15	Iodomethane	142	2.495	2.495	(0.514)	250219	100.000	77.26
16	Acrylonitrile	53	3.076	3.076	(0.633)	202945	100.000	88.61
17	Methylene Chloride	84	2.825	2.825	(0.582)	296554	50.0000	45.65
18	Methyl tert-butyl ether	73	3.113	3.113	(0.641)	598385	50.0000	42.12
19	Carbon Disulfide	76	2.555	2.555	(0.526)	1516199	100.000	99.53

20	trans-1,2-Dichloroethene	96	3.102	3.102 (0.639)	277518	50.0000	50.49
21	Vinyl Acetate	43	3.642	3.642 (0.750)	941511	100.000	89.95

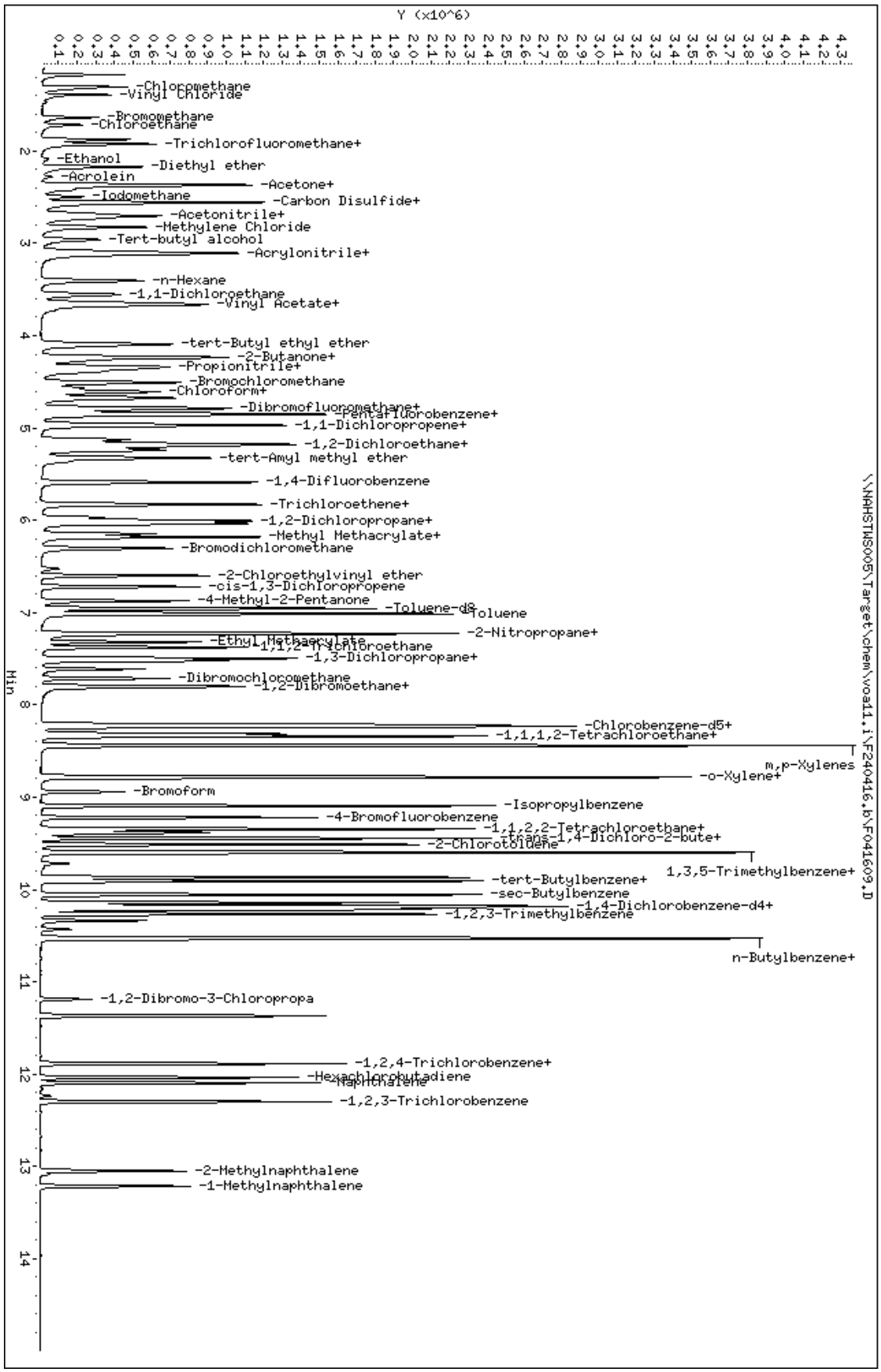
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	22 1,1-Dichloroethane	63	3.556	3.556	(0.732)	459938	50.0000	49.49
	24 2-Butanone	43	4.275	4.275	(0.880)	202873	100.000	91.52
	25 Methacrylonitrile	41	4.230	4.230	(0.871)	209016	50.0000	47.46
	26 2,2-Dichloropropane	77	4.234	4.234	(0.872)	287105	50.0000	43.26
	27 cis-1,2-Dichloroethene	96	4.234	4.234	(0.872)	312585	50.0000	53.17
	28 Chloroform	83	4.609	4.609	(0.949)	519966	50.0000	48.47
	29 Bromochloromethane	128	4.508	4.508	(0.928)	153383	50.0000	47.17
$	30 Dibromofluoromethane	113	4.778	4.778	(0.984)	278801	50.0000	48.26
	31 1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	445890	50.0000	52.65
	32 1,1-Dichloropropene	75	4.969	4.969	(0.889)	352641	50.0000	51.73
	33 1,2-Dichloroethane	62	5.205	5.205	(0.932)	422254	50.0000	46.95
	34 Carbon Tetrachloride	117	4.965	4.965	(0.889)	384149	50.0000	53.34
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	337864	50.0000	47.19
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	863517	50.0000	
	37 Benzene	78	5.179	5.179	(0.927)	1061096	50.0000	50.16
	38 Trichloroethene	130	5.827	5.827	(1.043)	323962	50.0000	51.29
	39 Bromodichloromethane	83	6.303	6.303	(1.128)	381752	50.0000	52.78
	40 Methyl Methacrylate	41	6.180	6.180	(1.272)	431907	50.0000	44.24
	41 2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	317349	100.000	89.43
	42 1,2-Dichloropropane	63	6.041	6.041	(1.081)	274469	50.0000	50.54
	43 2-Nitropropane	43	7.229	7.229	(1.489)	284345	50.0000	45.88
	44 Dibromomethane	93	6.146	6.146	(1.100)	197577	50.0000	50.09
	45 4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	422897	100.000	100.51
	46 cis-1,3-Dichloropropene	75	6.720	6.720	(1.203)	393967	50.0000	43.59
*	47 Chlorobenzene-d5	117	8.215	8.215	(1.000)	816588	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	994640	50.0000	51.37
	49 Ethyl Methacrylate	69	7.316	7.316	(1.309)	362381	50.0000	47.80
	50 Toluene	91	7.016	7.016	(0.854)	1183051	50.0000	49.17
	51 trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	353146	50.0000	47.37
	52 2-Hexanone	43	7.229	7.229	(0.880)	284345	100.000	93.05
	53 1,1,2-Trichloroethane	83	7.379	7.379	(0.898)	230842	50.0000	49.49
	54 1,3-Dichloropropane	76	7.522	7.522	(0.916)	463295	50.0000	49.91
	55 Dibromochloromethane	129	7.717	7.717	(0.939)	292228	50.0000	43.86
	56 Tetrachloroethene	164	7.496	7.496	(0.912)	265628	50.0000	48.47
	57 1,2-Dibromoethane	107	7.807	7.807	(0.950)	297746	50.0000	47.22
	58 1-Chlorohexane	55	8.230	8.230	(1.473)	238995	50.0000	45.64
	59 Chlorobenzene	112	8.238	8.238	(1.003)	810684	50.0000	46.58
	60 1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	291247	50.0000	53.11
	61 Ethylbenzene	106	8.339	8.339	(1.015)	415601	50.0000	54.20
	62 m,p-Xylenes	106	8.440	8.440	(1.027)	1041219	100.000	99.38
	63 o-Xylene	106	8.778	8.778	(1.068)	504684	50.0000	49.33
	64 Styrene	104	8.789	8.789	(1.070)	869779	50.0000	49.84
	66 Bromoform	173	8.943	8.943	(1.089)	166752	50.0000	49.80
	67 Isopropylbenzene	105	9.092	9.092	(1.107)	1284730	50.0000	49.32
	68 1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	366879	50.0000	49.60
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.122)	371908	50.0000	48.41
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	441596	50.0000	
	71 1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	343978	50.0000	52.02
	72 trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	69924	50.0000	48.76
	73 n-Propylbenzene	91	9.445	9.445	(0.926)	1489657	50.0000	50.21
	74 Bromobenzene	156	9.344	9.344	(0.916)	352094	50.0000	47.67
	75 1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	1116005	50.0000	48.15

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	900093	50.0000	49.19
77	4-Chlorotoluene	91	9.602	9.602 (0.942)	1074152	50.0000	48.54

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
78 tert-Butylbenzene	119	9.868	9.868	(0.968)	907488	50.0000	45.95
79 1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	1057833	50.0000	46.86
81 sec-Butylbenzene	105	10.056	10.056	(0.986)	1276333	50.0000	46.21
82 p-Isopropyltoluene	119	10.180	10.180	(0.998)	1157813	50.0000	46.67
83 1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	627558	50.0000	50.52
84 1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	642422	50.0000	45.19
87 n-Butylbenzene	91	10.524	10.524	(1.032)	987398	50.0000	46.92
88 1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	654681	50.0000	51.54
89 1,2-Dibromo-3-Chloropropane	155	11.188	11.188	(1.097)	46540	50.0000	49.77
90 1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	402555	50.0000	51.46
91 Hexachlorobutadiene	225	12.035	12.035	(1.180)	211253	50.0000	49.85
92 Naphthalene	128	12.095	12.095	(1.186)	914218	50.0000	49.37
93 1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	398734	50.0000	52.17
146 Methyl acetate	43	2.735	2.735	(0.563)	262307	50.0000	44.86
138 Freon TF	101	2.371	2.371	(0.488)	279365	50.0000	46.31
139 Diethyl ether	59	2.172	2.172	(0.447)	322396	50.0000	46.01
141 Cyclohexane	56	4.845	4.845	(0.998)	390936	50.0000	48.08
147 Methylcyclohexane	55	6.004	6.004	(1.074)	317020	50.0000	48.14
132 n-Butanol	56	5.816	5.816	(1.198)	81867	1000.00	941.91
131 Methyl Acrylate	55	4.392	4.392	(0.904)	258470	50.0000	46.95
133 Ethyl Acrylate	55	5.970	5.970	(1.229)	300775	50.0000	42.94
135 1,4-Dioxane	88	6.183	6.183	(1.273)	64136	1000.00	1042.33(A)
136 n-Hexane	57	3.406	3.406	(0.701)	278057	50.0000	45.96
142 Tetrahydrofuran	42	4.568	4.568	(0.941)	140427	100.000	97.69
148 Tert-butyl alcohol	59	2.960	2.960	(0.609)	270984	1000.00	912.27
149 Isopropyl alcohol	45	2.562	2.562	(0.528)	220200	1000.00	939.42
151 4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	718531	1000.00	965.63
166 1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	963919	50.0000	46.60
167 Ethanol	45	2.086	2.086	(0.430)	47670	1000.00	963.79
170 1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	402555	50.0000	51.46
172 tert-Butyl formate	59	5.239	5.239	(1.079)	182252	100.000	95.41(H)
173 3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	352607	1000.00	999.30
174 tert-Amyl methyl ether	73	5.325	5.325	(1.096)	549351	50.0000	42.78
175 tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	613387	50.0000	43.97
160 2-Methylnaphthalene	142	13.047	13.047	(1.279)	296453	50.0000	47.02
156 Diisopropyl ether	45	3.664	3.664	(0.755)	777266	50.0000	47.15
180 1-Methylnaphthalene	142	13.216	13.216	(1.296)	323047	50.0000	50.09
130 Ethyl Acetate	43	4.365	4.365	(0.899)	480017	50.0000	46.02
176 tert-Amyl alcohol	59	5.239	5.239	(1.079)	182252	1000.00	958.39(A)

QC Flag Legend

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: VSTD050;VSTD050;1;8;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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Inj Date : 16-APR-2024 14:11
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LabSampID : VSTD050

Bromomethane (74-83-9)

Reason Code:

BEFORE

MASS
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106033
22-Apr-2024
09:51
salina
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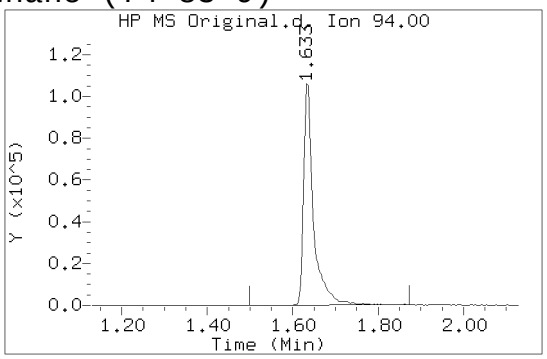

AFTER

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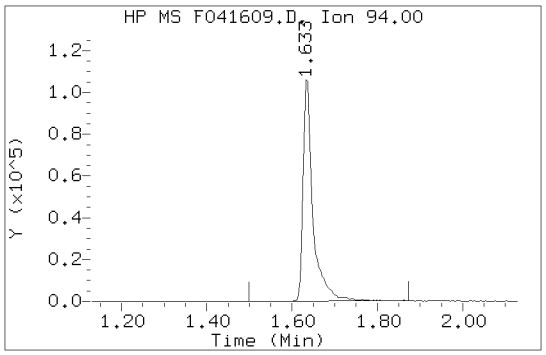

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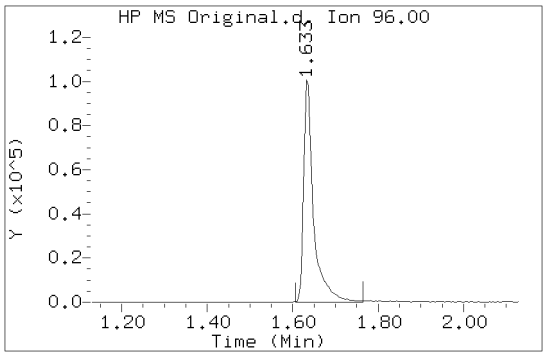

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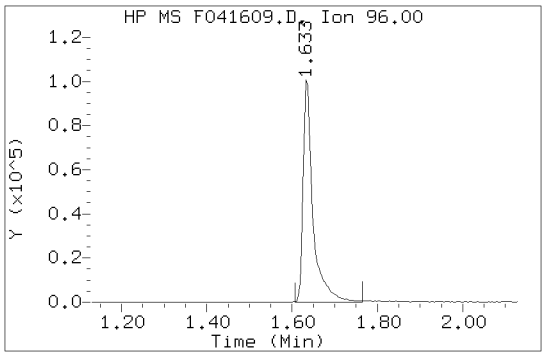

Acrolein (107-02-8)

Reason Code:

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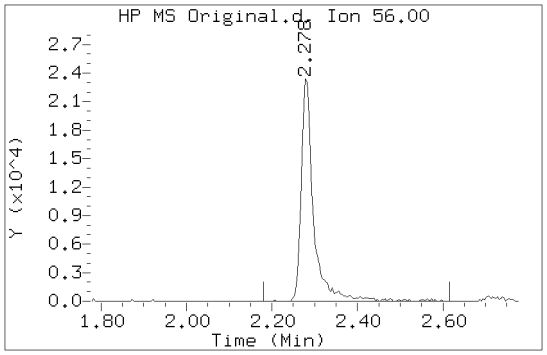

AFTER

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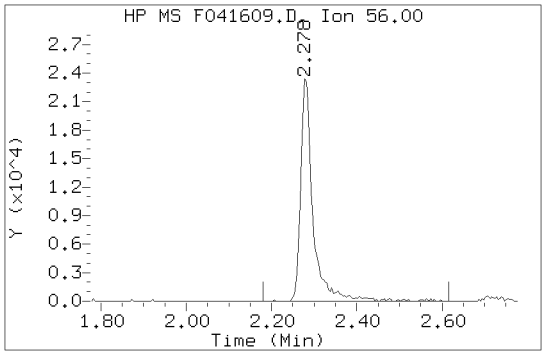

BEFORE

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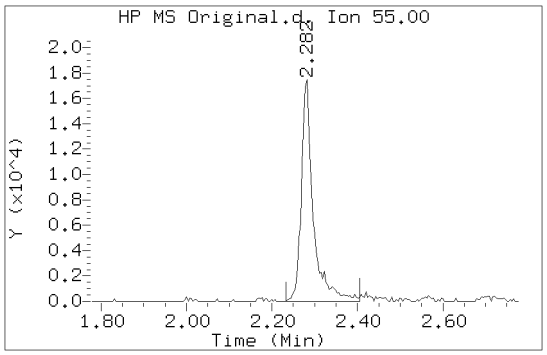

AFTER

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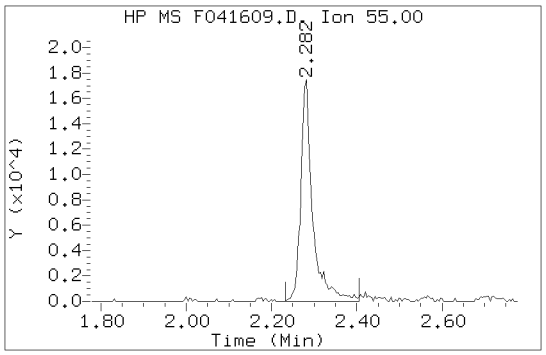

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InstruID : voa11.i
LabSampID : VSTD050

Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE

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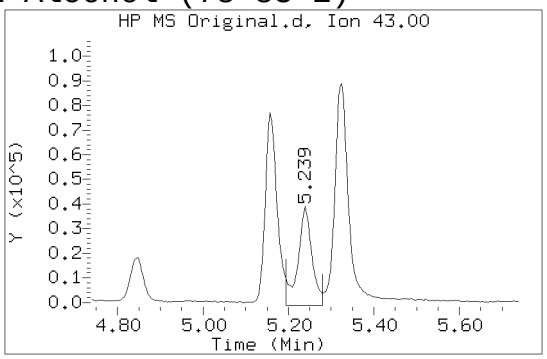

AFTER

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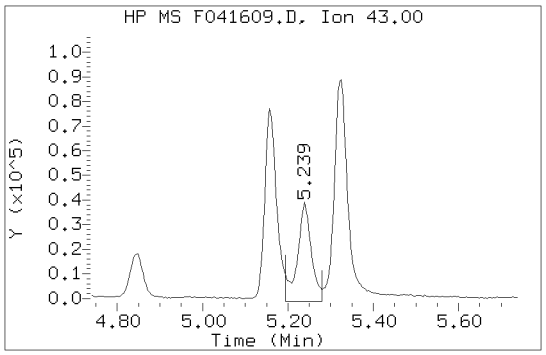

BEFORE

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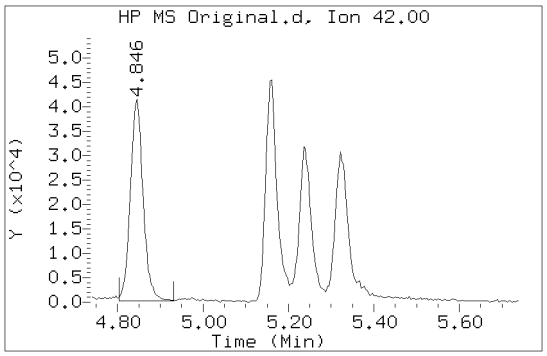

AFTER

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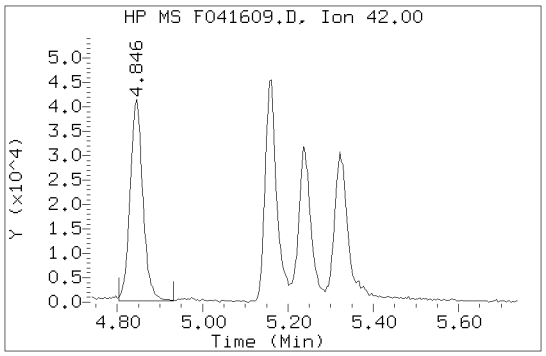

BEFORE

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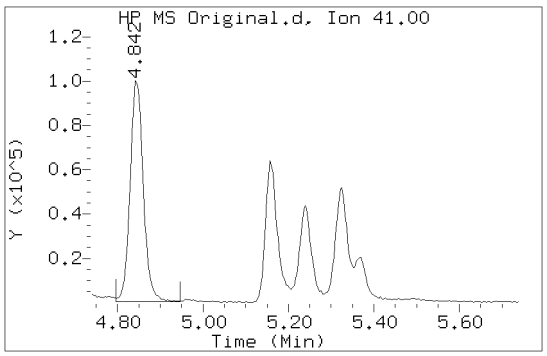

AFTER

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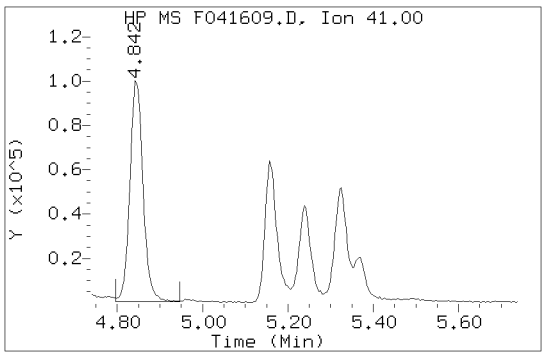

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Report Date: 22-Apr-2024 09:28

ALS Laboratory Group

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Inj Date : 16-APR-2024 14:33
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Smp Info : VSTD100;VSTD100;1;9;
Misc Info : V11;WATER;0;1;
Comment :
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Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 10 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.857	4.857	(1.000)	520482	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.241)	582902	100.000	102.20
3	Chloromethane	50	1.307	1.307	(0.269)	965021	100.000	96.05
4	Propionitrile	54	4.339	4.339	(0.893)	1389889	1000.00	1055.69
5	Vinyl Chloride	62	1.389	1.389	(0.286)	566180	100.000	102.02
6	Bromomethane	94	1.633	1.633	(0.336)	336301	100.000	100.42(M)
7	Chloroethane	64	1.715	1.715	(0.353)	353256	100.000	99.06
8	Trichlorofluoromethane	101	1.925	1.925	(0.396)	910045	100.000	103.00
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	872311	100.000	99.83
9	Acrolein	56	2.281	2.281	(0.470)	107005	200.000	205.52
10	Acetone	43	2.424	2.424	(0.499)	281554	200.000	188.56
11	1,1-Dichloroethene	96	2.364	2.364	(0.487)	484081	100.000	109.96
12	Isobutyl Alcohol	43	5.239	5.239	(1.079)	168093	2000.00	1968.40(M)
13	Acetonitrile	39	2.705	2.705	(0.557)	650617	1000.00	1028.58
14	Allyl Chloride	41	2.705	2.705	(0.557)	1328864	100.000	101.99
15	Iodomethane	142	2.495	2.495	(0.514)	563189	200.000	178.67
16	Acrylonitrile	53	3.076	3.076	(0.633)	402852	200.000	194.89
17	Methylene Chloride	84	2.825	2.825	(0.582)	579227	100.000	101.77
18	Methyl tert-butyl ether	73	3.113	3.113	(0.641)	1276515	100.000	97.45
19	Carbon Disulfide	76	2.555	2.555	(0.526)	3050868	200.000	227.85

20	trans-1,2-Dichloroethene	96	3.102	3.102 (0.639)	546506	100.000	113.11
21	Vinyl Acetate	43	3.642	3.642 (0.750)	1932488	200.000	204.48(A)

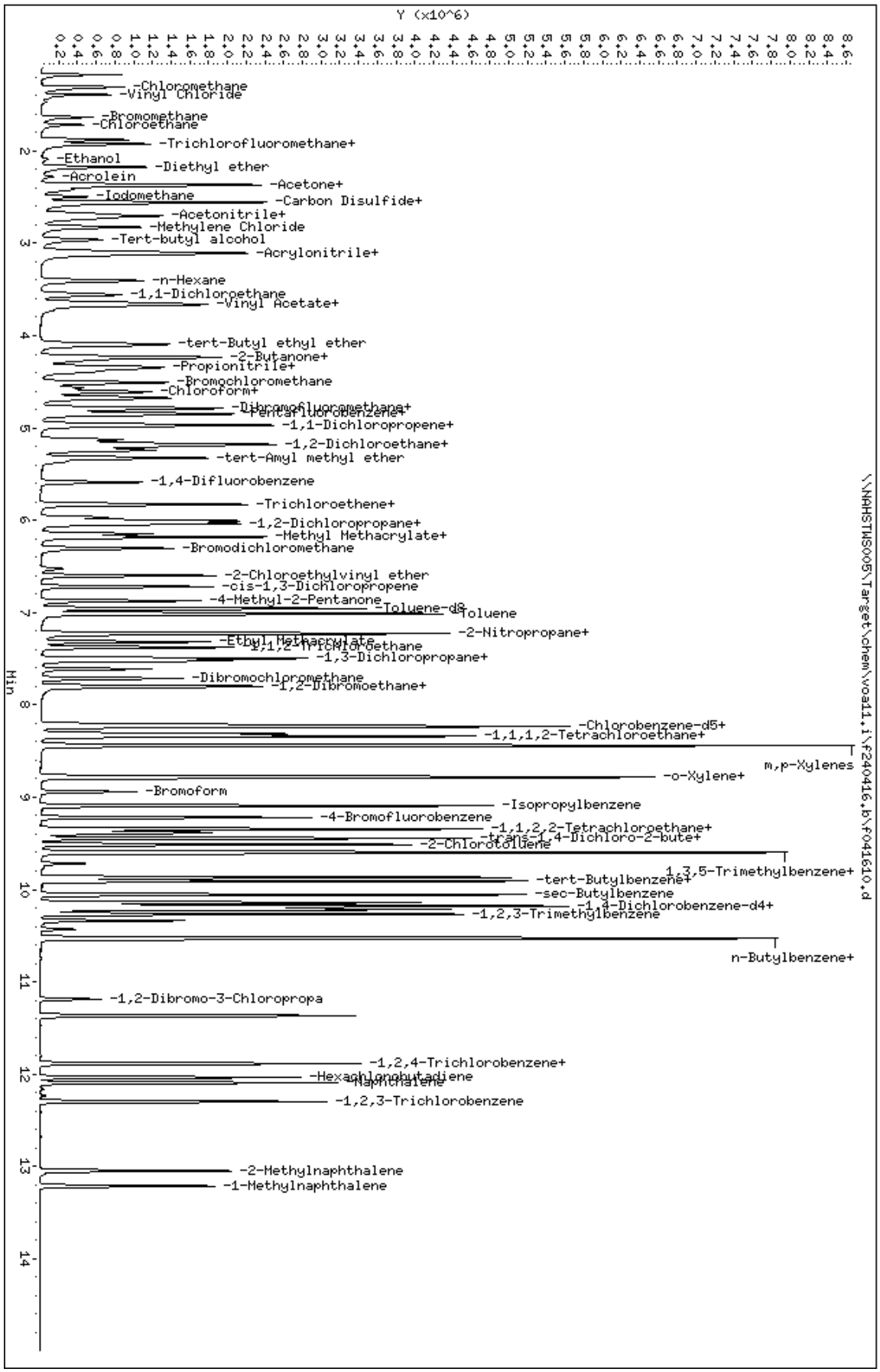
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	22 1,1-Dichloroethane	63	3.556	3.556	(0.732)	905196	100.000	110.82
	24 2-Butanone	43	4.279	4.279	(0.881)	374331	200.000	185.86
	25 Methacrylonitrile	41	4.231	4.231	(0.871)	399690	100.000	103.25
	26 2,2-Dichloropropane	77	4.234	4.234	(0.872)	578631	100.000	95.07
	27 cis-1,2-Dichloroethene	96	4.242	4.242	(0.873)	562334	100.000	108.82
	28 Chloroform	83	4.609	4.609	(0.949)	941950	100.000	99.89
	29 Bromochloromethane	128	4.504	4.504	(0.927)	265970	100.000	93.06
$	30 Dibromofluoromethane	113	4.782	4.782	(0.985)	498624	100.000	97.85
	31 1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	836860	100.000	112.41
	32 1,1-Dichloropropene	75	4.969	4.969	(0.889)	653438	100.000	106.96
	33 1,2-Dichloroethane	62	5.205	5.205	(0.932)	783381	100.000	97.19
	34 Carbon Tetrachloride	117	4.965	4.965	(0.889)	730868	100.000	113.24
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	615555	100.000	97.68
*	36 1,4-Difluorobenzene	114	5.588	5.588	(1.000)	773943	50.0000	
	37 Benzene	78	5.179	5.179	(0.927)	1898157	100.000	100.12
	38 Trichloroethene	130	5.827	5.827	(1.043)	581657	100.000	102.74
	39 Bromodichloromethane	83	6.307	6.307	(1.129)	740420	100.000	114.23
	40 Methyl Methacrylate	41	6.180	6.180	(1.272)	862235	100.000	96.56
	41 2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	661020	200.000	199.80(A)
	42 1,2-Dichloropropane	63	6.041	6.041	(1.081)	505897	100.000	103.94
	43 2-Nitropropane	43	7.230	7.230	(1.489)	517330	100.000	94.97
	44 Dibromomethane	93	6.146	6.146	(1.100)	373353	100.000	105.62
	45 4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	893756	200.000	199.83
	46 cis-1,3-Dichloropropene	75	6.720	6.720	(1.203)	844777	100.000	100.34
*	47 Chlorobenzene-d5	117	8.212	8.212	(1.000)	808596	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	1932426	100.000	98.44
	49 Ethyl Methacrylate	69	7.316	7.316	(1.309)	743474	100.000	101.50
	50 Toluene	91	7.016	7.016	(0.854)	2295565	100.000	95.67
	51 trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	738167	100.000	101.90
	52 2-Hexanone	43	7.230	7.230	(0.880)	517330	200.000	170.96
	53 1,1,2-Trichloroethane	83	7.376	7.376	(0.898)	434477	100.000	94.07
	54 1,3-Dichloropropane	76	7.522	7.522	(0.916)	931867	100.000	101.39
	55 Dibromochloromethane	129	7.717	7.717	(0.940)	627845	100.000	91.59
	56 Tetrachloroethene	164	7.496	7.496	(0.913)	535768	100.000	98.74
	57 1,2-Dibromoethane	107	7.807	7.807	(0.951)	596740	100.000	94.29
	58 1-Chlorohexane	55	8.230	8.230	(1.473)	468300	100.000	100.09
	59 Chlorobenzene	112	8.238	8.238	(1.003)	1603510	100.000	93.06
	60 1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	598850	100.000	110.28
	61 Ethylbenzene	106	8.339	8.339	(1.016)	826528	100.000	108.85
	62 m,p-Xylenes	106	8.440	8.440	(1.028)	2039784	200.000	196.34
	63 o-Xylene	106	8.778	8.778	(1.069)	963054	100.000	93.92
	64 Styrene	104	8.789	8.789	(1.070)	1670286	100.000	95.70
	66 Bromoform	173	8.939	8.939	(1.089)	358310	100.000	100.37
	67 Isopropylbenzene	105	9.093	9.093	(1.107)	2528171	100.000	96.85
	68 1,1,2,2-Tetrachloroethane	83	9.348	9.348	(0.917)	738840	100.000	96.44
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	730271	100.000	95.85
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	457365	50.0000	
	71 1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	717651	100.000	104.79
	72 trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	154263	100.000	100.69
	73 n-Propylbenzene	91	9.445	9.445	(0.926)	2866617	100.000	92.09
	74 Bromobenzene	156	9.344	9.344	(0.916)	713358	100.000	91.49
	75 1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	2364404	100.000	96.92

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	1758788	100.000	91.65
77	4-Chlorotoluene	91	9.602	9.602 (0.942)	2231619	100.000	96.49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.869	9.869	(0.968)	2033202	100.000	96.96
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	2302583	100.000	96.61
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	2810976	100.000	96.06
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	2525921	100.000	96.19
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	1374348	100.000	106.83
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	1395923	100.000	94.82
87	n-Butylbenzene	91	10.525	10.525	(1.032)	2100111	100.000	94.02
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	1340357	100.000	101.88
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.188	(1.097)	106795	100.000	100.27
90	1,2,4-Trichlorobenzene	180	11.885	11.885	(1.165)	850784	100.000	98.51
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	418542	100.000	95.36
92	Naphthalene	128	12.095	12.095	(1.186)	1962632	100.000	100.57
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	783137	100.000	98.79
146	Methyl acetate	43	2.735	2.735	(0.563)	541190	100.000	105.29(A)
138	Freon TF	101	2.371	2.371	(0.488)	552929	100.000	104.28
139	Diethyl ether	59	2.173	2.173	(0.447)	652873	100.000	106.00
141	Cyclohexane	56	4.845	4.845	(0.998)	705348	100.000	99.20
147	Methylcyclohexane	55	6.007	6.007	(1.075)	602325	100.000	102.35
132	n-Butanol	56	5.820	5.820	(1.198)	174116	2000.00	2034.31
131	Methyl Acrylate	55	4.395	4.395	(0.905)	475235	100.000	95.62
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	618897	100.000	94.51
135	1,4-Dioxane	88	6.184	6.184	(1.273)	112341	2000.00	1969.59(A)
136	n-Hexane	57	3.406	3.406	(0.701)	574420	100.000	106.11
142	Tetrahydrofuran	42	4.568	4.568	(0.941)	273406	200.000	202.23
148	Tert-butyl alcohol	59	2.963	2.963	(0.610)	599169	2000.00	2051.09
149	Isopropyl alcohol	45	2.562	2.562	(0.528)	461950	2000.00	2034.43
151	4-Methyl-2-pentanol	45	7.230	7.230	(1.294)	1491583	2000.00	2015.18
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	2095897	100.000	96.11
167	Ethanol	45	2.090	2.090	(0.430)	90967	2000.00	2004.03
170	1,3,5-Trichlorobenzene	180	11.885	11.885	(1.165)	850784	100.000	98.51
172	tert-Butyl formate	59	5.239	5.239	(1.079)	378619	200.000	202.89(H)
173	3,3-Dimethyl-1-butanol	57	7.796	7.796	(0.949)	749128	2000.00	1981.15
174	tert-Amyl methyl ether	73	5.325	5.325	(1.096)	1114154	100.000	93.45
175	tert-Butyl ethyl ether	59	4.096	4.096	(0.843)	1214184	100.000	94.74
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	765534	100.000	102.21
156	Diisopropyl ether	45	3.664	3.664	(0.755)	1532555	100.000	104.19
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	749020	100.000	100.42
130	Ethyl Acetate	43	4.365	4.365	(0.899)	882657	100.000	93.34
176	tert-Amyl alcohol	59	5.239	5.239	(1.079)	376409	2000.00	2026.82(A)

QC Flag Legend

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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Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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LabSampID : VSTD100

Bromomethane (74-83-9)

Reason Code:

BEFORE

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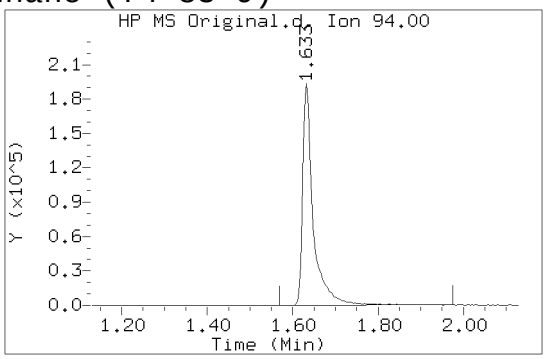
HEIGHT
193420
22-Apr-2024
09:21
salina
zaid



AFTER

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22-Apr-2024
09:28
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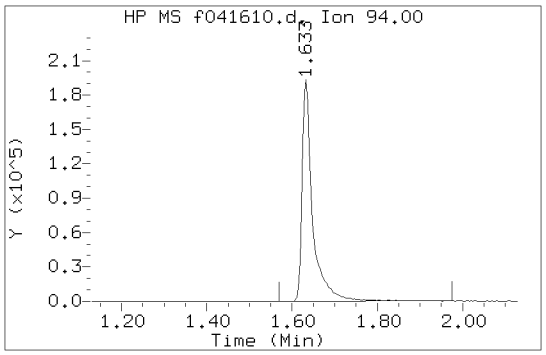

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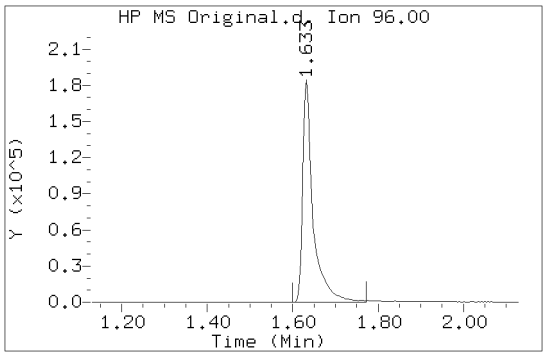

AFTER

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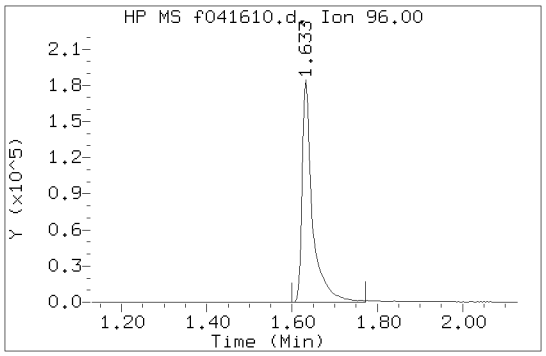

Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE

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09:21
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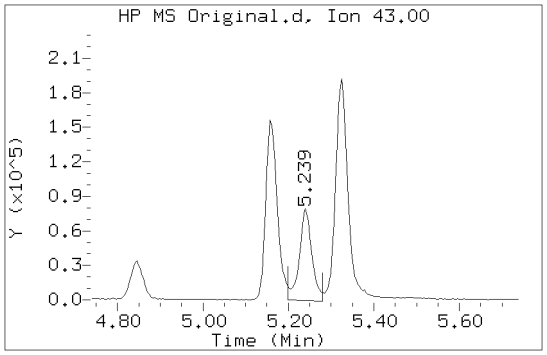

AFTER

MASS
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22-Apr-2024
09:28
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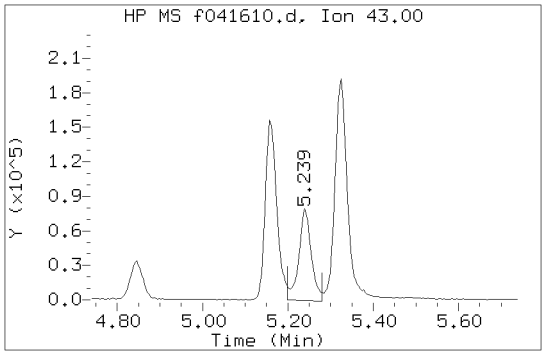

BEFORE

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22-Apr-2024
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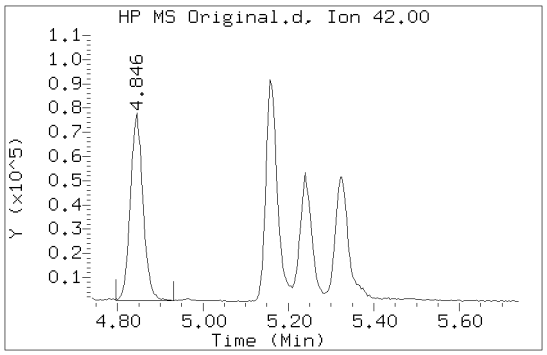

AFTER

MASS
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22-Apr-2024
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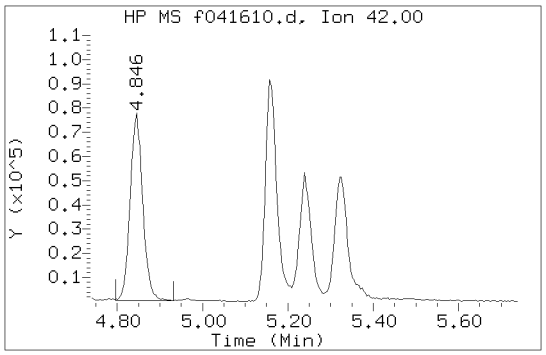

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InstruID : voa11.i
LabSampID : VSTD100

Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE

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191403
22-Apr-2024
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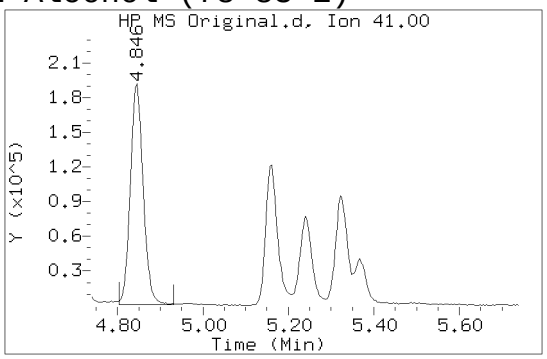

AFTER

MASS
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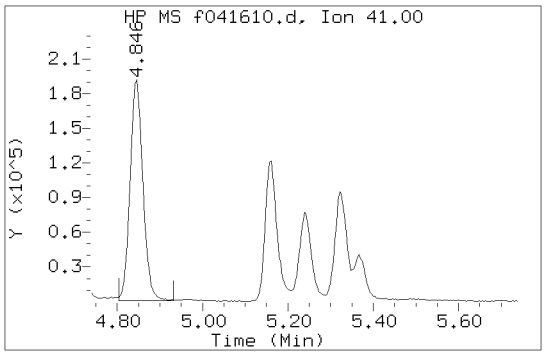

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Report Date: 22-Apr-2024 09:22

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041611.D
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Inj Date : 16-APR-2024 14:55
Operator : FT Inst ID: voa11.i
Smp Info : VSTD200;VSTD200;1;10;
Misc Info : V11;WATER;0;1;
Comment :
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Meth Date : 22-Apr-2024 09:22 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:33 Cal File: F041610.D
Als bottle: 11 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.856	4.856	(1.000)	531097	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.241)	1193955	200.000	205.15(A)
3	Chloromethane	50	1.306	1.306	(0.269)	1896813	200.000	185.03(A)
4	Propionitrile	54	4.347	4.347	(0.895)	3113767	2000.00	2317.80(A)
5	Vinyl Chloride	62	1.389	1.389	(0.286)	1161543	200.000	205.12(A)
6	Bromomethane	94	1.625	1.625	(0.335)	566385	200.000	156.33(M)
7	Chloroethane	64	1.711	1.711	(0.352)	695014	200.000	191.01
8	Trichlorofluoromethane	101	1.921	1.921	(0.396)	1851423	200.000	205.36(A)
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	1733524	200.000	194.43(A)
9	Acrolein	56	2.277	2.277	(0.469)	273632	400.000	399.36
10	Acetone	43	2.424	2.424	(0.499)	628285	400.000	407.87(A)
11	1,1-Dichloroethene	96	2.364	2.364	(0.487)	997151	200.000	221.99(A)
12	Isobutyl Alcohol	43	5.243	5.243	(1.079)	489075	4000.00	4002.55(AMH)
13	Acetonitrile	39	2.705	2.705	(0.557)	1294675	2000.00	1995.38
14	Allyl Chloride	41	2.701	2.701	(0.556)	2690042	200.000	200.14(A)
15	Iodomethane	142	2.495	2.495	(0.514)	1383261	400.000	412.79(A)
16	Acrylonitrile	53	3.076	3.076	(0.633)	863604	400.000	404.90(A)
17	Methylene Chloride	84	2.821	2.821	(0.581)	1160255	200.000	200.05
18	Methyl tert-butyl ether	73	3.113	3.113	(0.641)	2761458	200.000	202.86(A)
19	Carbon Disulfide	76	2.551	2.551	(0.525)	6172844	400.000	451.80(A)

20 trans-1,2-Dichloroethene	96	3.098	3.098 (0.638)	1088299	200.000	220.75(A)
21 Vinyl Acetate	43	3.642	3.642 (0.750)	3899174	400.000	400.25(A)

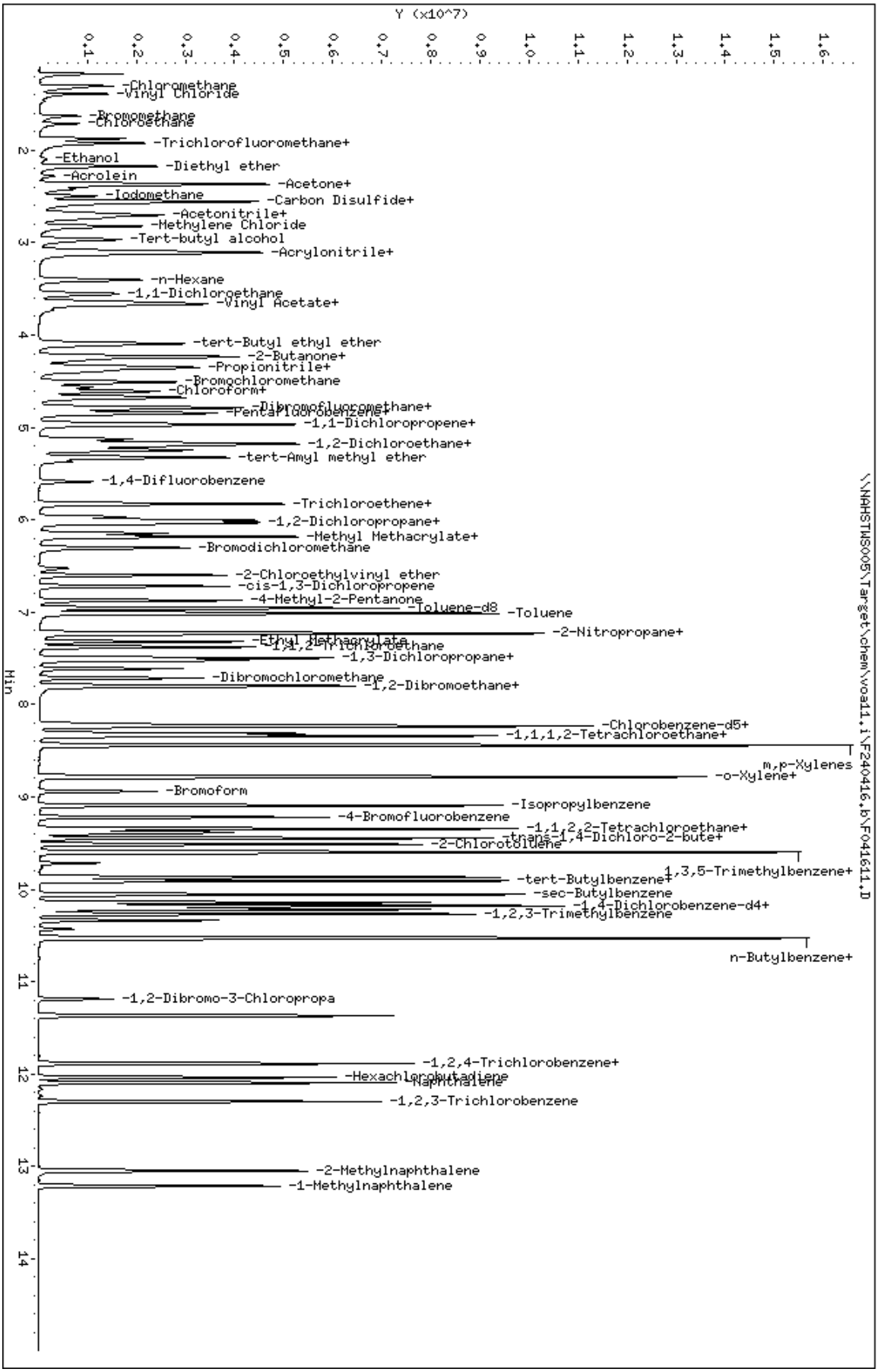
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	22 1,1-Dichloroethane	63	3.556	3.556	(0.732)	1733342	200.000	207.97(A)
	24 2-Butanone	43	4.279	4.279	(0.881)	853516	400.000	408.27(A)
	25 Methacrylonitrile	41	4.230	4.230	(0.871)	815427	200.000	206.45
	26 2,2-Dichloropropane	77	4.230	4.230	(0.871)	1288329	200.000	203.69(A)
	27 cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	1169557	200.000	221.80(A)
	28 Chloroform	83	4.609	4.609	(0.949)	1925410	200.000	200.12(A)
	29 Bromochloromethane	128	4.508	4.508	(0.928)	529781	200.000	181.66
$	30 Dibromofluoromethane	113	4.781	4.781	(0.985)	1049258	200.000	201.45(A)
	31 1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	1782702	200.000	234.69(A)
	32 1,1-Dichloropropene	75	4.969	4.969	(0.889)	1372874	200.000	223.54(A)
	33 1,2-Dichloroethane	62	5.205	5.205	(0.932)	1606103	200.000	198.21
	34 Carbon Tetrachloride	117	4.965	4.965	(0.889)	1563882	200.000	241.02(A)
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	1297310	200.000	201.64(A)
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	778087	50.0000	
	37 Benzene	78	5.179	5.179	(0.927)	3866098	200.000	202.83(A)
	38 Trichloroethene	130	5.827	5.827	(1.043)	1232250	200.000	216.51(A)
	39 Bromodichloromethane	83	6.303	6.303	(1.128)	1611160	200.000	247.24(A)
	40 Methyl Methacrylate	41	6.183	6.183	(1.273)	1880399	200.000	202.87
	41 2-Chloroethylvinyl ether	63	6.603	6.603	(1.182)	1360414	400.000	402.65(A)
	42 1,2-Dichloropropane	63	6.041	6.041	(1.081)	1047740	200.000	214.12(A)
	43 2-Nitropropane	43	7.233	7.233	(1.489)	1334518	200.000	240.10(A)
	44 Dibromomethane	93	6.146	6.146	(1.100)	792974	200.000	223.13(A)
	45 4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	2111882	400.000	400.00(A)
	46 cis-1,3-Dichloropropene	75	6.720	6.720	(1.203)	1728347	200.000	201.25(A)
*	47 Chlorobenzene-d5	117	8.215	8.215	(1.000)	780235	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	4084756	200.000	200.23(A)
	49 Ethyl Methacrylate	69	7.319	7.319	(1.310)	1718096	200.000	199.79
	50 Toluene	91	7.016	7.016	(0.854)	4698342	200.000	202.12(A)
	51 trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	1710052	200.000	199.73
	52 2-Hexanone	43	7.233	7.233	(0.880)	1334518	400.000	457.06(A)
	53 1,1,2-Trichloroethane	83	7.379	7.379	(0.898)	949148	200.000	212.99(A)
	54 1,3-Dichloropropane	76	7.522	7.522	(0.916)	1909614	200.000	215.32(A)
	55 Dibromochloromethane	129	7.717	7.717	(0.939)	1380662	200.000	204.85(A)
	56 Tetrachloroethene	164	7.496	7.496	(0.912)	1107178	200.000	211.47(A)
	57 1,2-Dibromoethane	107	7.807	7.807	(0.950)	1248832	200.000	203.03(A)
	58 1-Chlorohexane	55	8.230	8.230	(1.473)	943189	200.000	200.78(A)
	59 Chlorobenzene	112	8.238	8.238	(1.003)	3224992	200.000	193.97
	60 1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	1206776	200.000	230.31(A)
	61 Ethylbenzene	106	8.339	8.339	(1.015)	1631493	200.000	222.69(A)
	62 m,p-Xylenes	106	8.440	8.440	(1.027)	4029503	400.000	401.65(A)
	63 o-Xylene	106	8.778	8.778	(1.068)	2021582	200.000	202.87(A)
	64 Styrene	104	8.789	8.789	(1.070)	3420818	200.000	201.98(A)
	66 Bromoform	173	8.943	8.943	(1.089)	853001	200.000	199.94
	67 Isopropylbenzene	105	9.092	9.092	(1.107)	5111519	200.000	201.63(A)
	68 1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	1533850	200.000	223.02(A)
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.122)	1488454	200.000	202.29(A)
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	410592	50.0000	
	71 1,2,3-Trichloropropane	75	9.385	9.385	(0.920)	1577787	200.000	256.63(A)
	72 trans-1,4-Dichloro-2-butene	53	9.400	9.400	(1.144)	364794	200.000	199.92
	73 n-Propylbenzene	91	9.445	9.445	(0.926)	5729712	200.000	203.34(A)
	74 Bromobenzene	156	9.344	9.344	(0.916)	1445423	200.000	204.18(A)
	75 1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	4456187	200.000	201.84(A)

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	3537373	200.000	203.71(A)
77	4-Chlorotoluene	91	9.606	9.606 (0.942)	4211219	200.000	201.86(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.868	9.868	(0.968)	3851786	200.000	202.30(A)
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	4367311	200.000	202.21(A)
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	5380041	200.000	202.59(A)
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	4824144	200.000	202.47(A)
83	1,3-Dichlorobenzene	146	10.146	10.146	(0.995)	2636786	200.000	228.31(A)
84	1,4-Dichlorobenzene	146	10.221	10.221	(1.002)	2656349	200.000	201.00(A)
87	n-Butylbenzene	91	10.524	10.524	(1.032)	4130424	200.000	203.36(A)
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	2642482	200.000	223.74(A)
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.188	(1.097)	275848	200.000	199.97
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	1935875	200.000	200.16(A)
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	902245	200.000	228.99(A)
92	Naphthalene	128	12.095	12.095	(1.186)	4612152	200.000	260.58(A)
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	1712256	200.000	240.39(A)
146	Methyl acetate	43	2.738	2.738	(0.564)	1181502	200.000	225.28(A)
138	Freon TF	101	2.371	2.371	(0.488)	1133855	200.000	209.58(A)
139	Diethyl ether	59	2.169	2.169	(0.447)	1320304	200.000	210.08(A)
141	Cyclohexane	56	4.845	4.845	(0.998)	1453442	200.000	200.83
147	Methylcyclohexane	55	6.004	6.004	(1.074)	1175184	200.000	198.89
132	n-Butanol	56	5.820	5.820	(1.198)	533567	4000.00	3997.31
131	Methyl Acrylate	55	4.395	4.395	(0.905)	1042092	200.000	202.78
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	1399635	200.000	204.02(A)
135	1,4-Dioxane	88	6.187	6.187	(1.274)	270120	4000.00	4003.46(A)
136	n-Hexane	57	3.402	3.402	(0.701)	1099856	200.000	197.87
142	Tetrahydrofuran	42	4.564	4.564	(0.940)	641894	400.000	399.67
148	Tert-butyl alcohol	59	2.967	2.967	(0.611)	1721193	4000.00	3995.37
149	Isopropyl alcohol	45	2.570	2.570	(0.529)	1234450	4000.00	3996.51
151	4-Methyl-2-pentanol	45	7.233	7.233	(1.295)	4457203	4000.00	3998.91
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	3997935	200.000	202.48(A)
167	Ethanol	45	2.094	2.094	(0.431)	217477	4000.00	4000.23(A)
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	1935875	200.000	200.16(A)
172	tert-Butyl formate	59	5.246	5.246	(1.080)	1168870	400.000	399.77(H)
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	2066411	4000.00	4001.92(A)
174	tert-Amyl methyl ether	73	5.325	5.325	(1.096)	2547935	200.000	204.44(A)
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	2717523	200.000	203.74(A)
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	2246009	200.000	199.84
156	Diisopropyl ether	45	3.664	3.664	(0.755)	2998902	200.000	198.64
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	2088715	200.000	199.95
130	Ethyl Acetate	43	4.365	4.365	(0.899)	1999158	200.000	203.91(A)
176	tert-Amyl alcohol	59	5.246	5.246	(1.080)	1166114	4000.00	3997.94(A)

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.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Client ID: VSTD200
Sample Info: VSTD200;VSTD200;1;10;
Purge Volume: 5.0
Column phase: DB624
Instrument: voa11.i
Operator: FT
Column diameter: 0.18
Page 1
Y (x10^7)
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0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane+
-Ethanol
-Diethyl ether
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Vinyl Acetate+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-tert-Amyl methyl ether
-1,4-Difluorobenzene
-Trichloroethene+
-1,2-Dichloropropane+
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-2-Nitropropane+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane+
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
m,p-Xylenes
-o-Xylene+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-1,4-Dichlorobenzene-d4+
-1,2,3-Trimethylbenzene
n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene+
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
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Inj Date : 16-APR-2024 14:55
InstruID : voa11.i
LabSampID : VSTD200

Bromomethane (74-83-9)

Reason Code:

BEFORE
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HEIGHT
296970
22-Apr-2024
09:21
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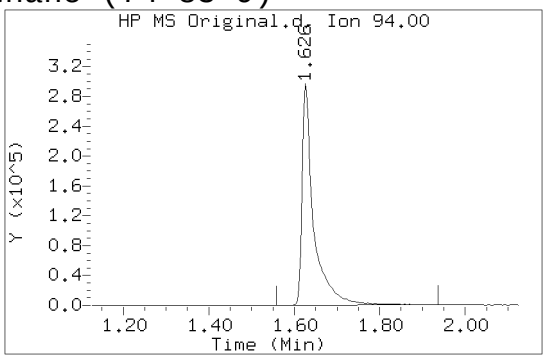
zaid



AFTER
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HEIGHT
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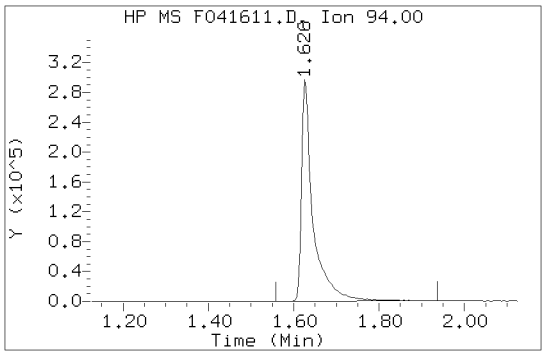

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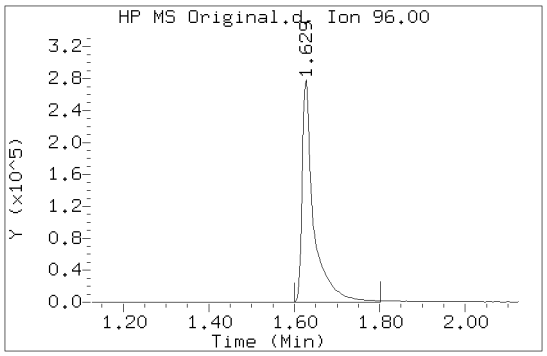

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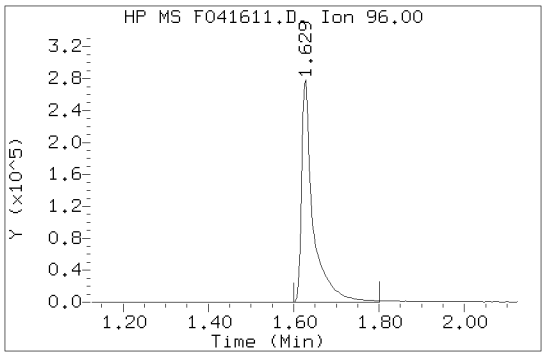

Isobutyl Alcohol (78-83-1)

Reason Code:

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HEIGHT
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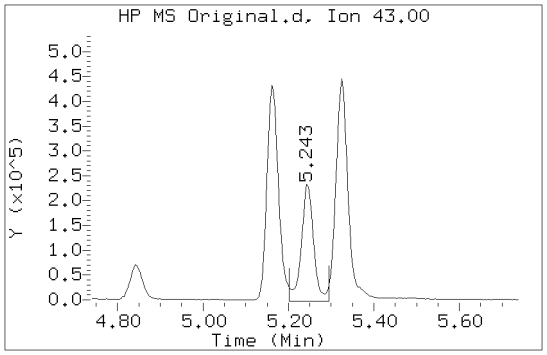
22-Apr-2024
09:21
salina
zaid



AFTER
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HEIGHT
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22-Apr-2024
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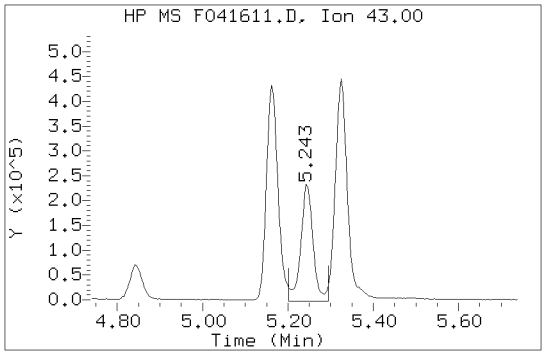

BEFORE
MASS
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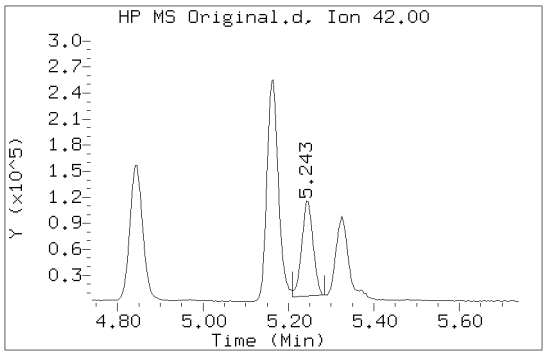

AFTER
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22-Apr-2024
09:21
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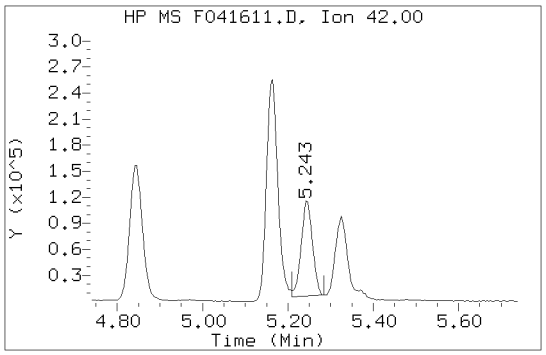

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Inj Date : 16-APR-2024 14:55
InstruID : voa11.i
LabSampID : VSTD200

Isobutyl Alcohol (78-83-1)

Reason Code:

BEFORE

MASS
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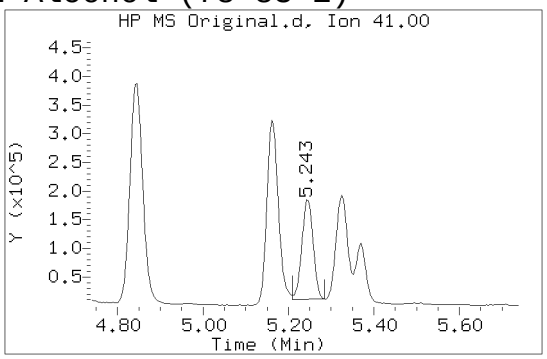
22-Apr-2024
09:21
salina
zaid



AFTER

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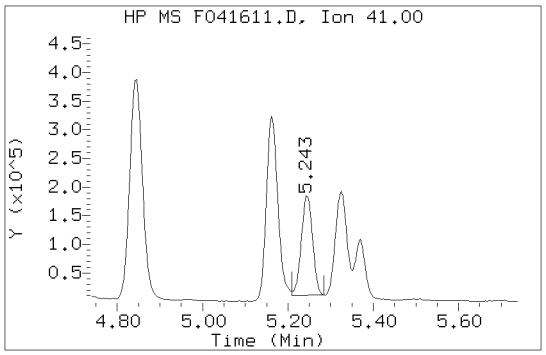

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Report Date: 17-Apr-2024 08:49

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041612.D
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Inj Date : 16-APR-2024 15:17
Operator : FT Inst ID: voa11.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\bfb.m
Meth Date : 26-Sep-2023 10:41 firat.tast Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7142

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.220	9.280	(0.000)	95	249600			0.00- 100.00	100.00
9.220	9.280	(0.000)	50	48584			15.00- 40.00	19.46
9.220	9.280	(0.000)	75	133440			30.00- 60.00	53.46
9.220	9.280	(0.000)	96	18112			5.00- 9.00	7.26
9.220	9.280	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.220	9.280	(0.000)	174	219456			50.00- 0.00	87.92
9.220	9.280	(0.000)	175	17824			5.00- 9.00	8.12
9.220	9.280	(0.000)	176	211328			95.00- 101.00	96.30
9.220	9.280	(0.000)	177	14106			5.00- 9.00	6.67

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.46
75	30.00 - 60.00% of mass 95	53.46
96	5.00 - 9.00% of mass 95	7.26
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.92
175	5.00 - 9.00% of mass 174	7.14 (8.12)
176	95.00 - 101.00% of mass 174	84.67 (96.30)
177	5.00 - 9.00% of mass 176	5.65 (6.67)

Data File: F041612.D
Spectrum: Scan 2302 (9.22)
Location of Maximum: 95.00
Number of points: 96

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2489	66.80	520	97.00	453	140.90	3884
37.00	12702	68.00	24816	102.80	235	141.60	303
38.00	11514	69.00	26768	103.80	1476	142.00	247
39.00	3597	70.00	2447	104.80	324	142.90	3513
40.10	652	72.00	1829	105.90	1428	143.90	217
40.90	160	73.00	12039	106.90	211	144.90	325
44.10	2095	74.00	47240	109.80	334	145.80	592
45.00	2002	75.00	133440	110.80	313	147.80	526
46.10	207	76.00	12022	111.90	292	148.90	280
47.00	2877	77.00	1547	112.60	315	149.90	466
47.90	1482	77.90	700	114.80	292	151.80	230
49.00	10842	78.90	11537	115.90	1210	154.80	784
50.00	48584	79.90	2620	116.90	1933	156.70	283
51.00	15209	80.90	11568	118.00	1333	158.70	327
51.90	590	81.80	2538	118.90	1462	160.90	296
54.90	804	83.00	429	122.60	169	171.70	456
56.00	4185	86.00	367	123.70	248	173.90	219456
57.00	7473	87.00	10792	127.90	1007	174.90	17824
57.90	201	88.00	9614	128.80	745	175.90	211328
60.00	2513	90.90	1179	129.90	1221	176.90	14106
61.00	13040	91.90	7795	130.80	590	177.80	453
62.00	12850	93.00	12121	134.80	406		
63.00	10186	94.00	31400	136.90	680		
64.00	905	95.00	249600	138.90	165		
64.90	383	96.00	18112	139.80	203		

Data File: \\NAHSTWS005\Target\chem\voa11.i\f240416.b\f041612.d Page 1

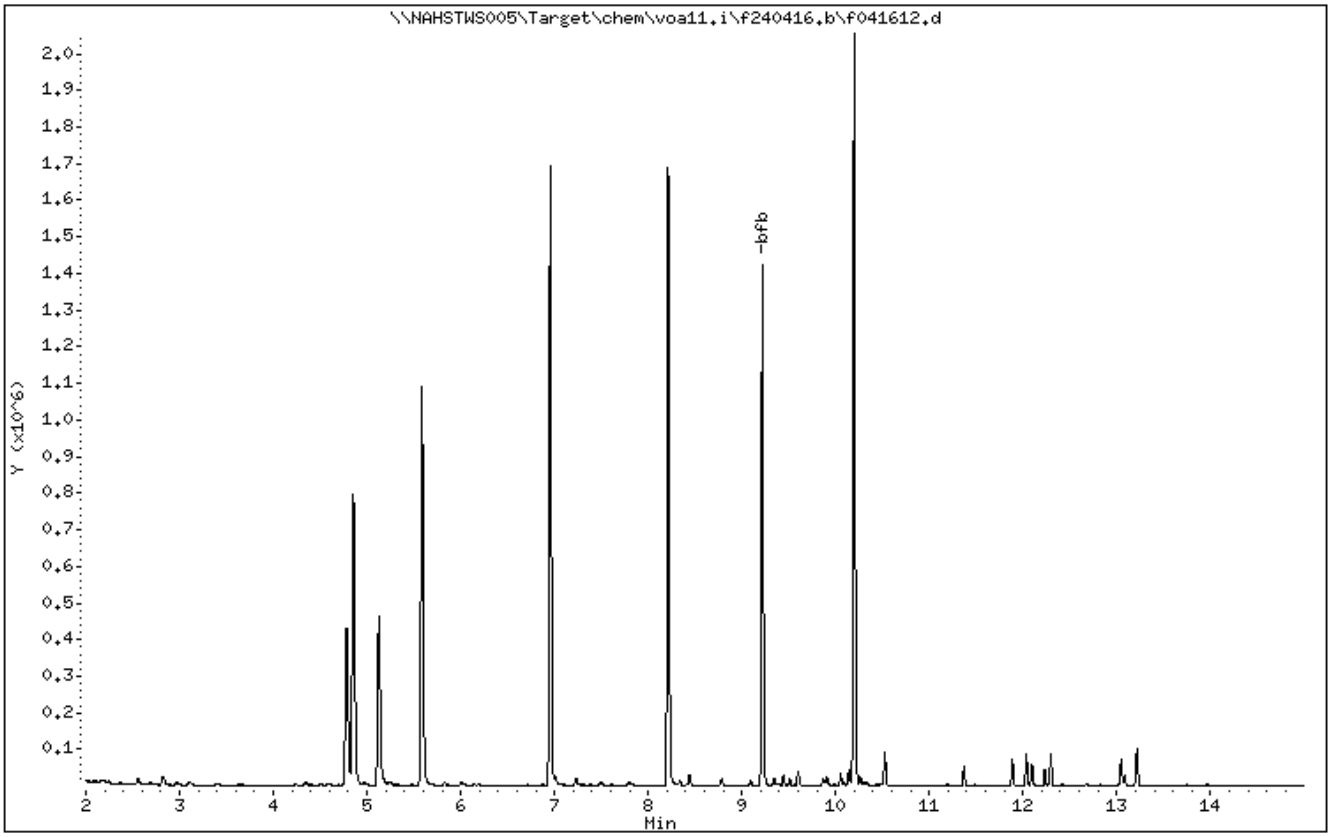
Date : 16-APR-2024 15:17

Client ID: BFB Instrument: voa11.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



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Inj Date : 16-APR-2024 15:17
InstruID : voa11.i
LabSampID : BFB

 NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041613.D Page 1
Report Date: 30-Apr-2024 14:15

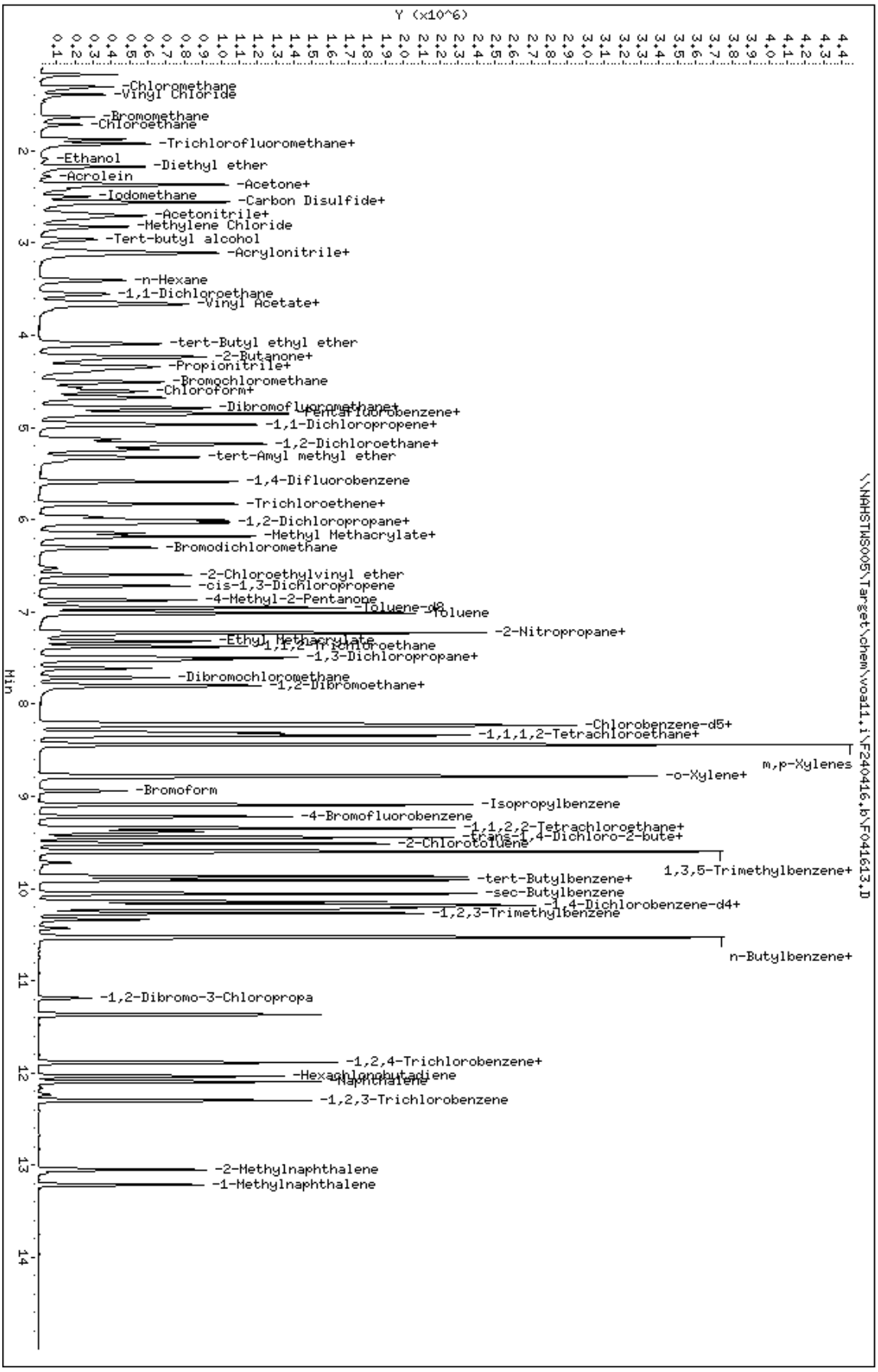
ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041613.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 16-APR-2024 15:39
Operator : FT Inst ID: voa11.i
Smp Info : VSTD050;VSTD050;2;;
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 30-Apr-2024 14:08 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 13 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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)



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041613.D
Date : 16-APR-2024 15:39
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041613.D
Inj Date : 16-APR-2024 15:39
InstruID : voa11.i
LabSampID : VSTD050

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

05/22/2024

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\voa11.i\F240416.b\F041612.D Page 1
Report Date: 17-Apr-2024 08:49

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041612.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 16-APR-2024 15:17
Operator : FT Inst ID: voa11.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\bfb.m
Meth Date : 26-Sep-2023 10:41 firat.tast Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7142

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)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.220	9.280	(0.000)	95	249600			0.00- 100.00	100.00
9.220	9.280	(0.000)	50	48584			15.00- 40.00	19.46
9.220	9.280	(0.000)	75	133440			30.00- 60.00	53.46
9.220	9.280	(0.000)	96	18112			5.00- 9.00	7.26
9.220	9.280	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.220	9.280	(0.000)	174	219456			50.00- 0.00	87.92
9.220	9.280	(0.000)	175	17824			5.00- 9.00	8.12
9.220	9.280	(0.000)	176	211328			95.00- 101.00	96.30
9.220	9.280	(0.000)	177	14106			5.00- 9.00	6.67

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.46
75	30.00 - 60.00% of mass 95	53.46
96	5.00 - 9.00% of mass 95	7.26
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	87.92
175	5.00 - 9.00% of mass 174	7.14 (8.12)
176	95.00 - 101.00% of mass 174	84.67 (96.30)
177	5.00 - 9.00% of mass 176	5.65 (6.67)

Data File: F041612.D
Spectrum: Scan 2302 (9.22)
Location of Maximum: 95.00
Number of points: 96

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2489	66.80	520	97.00	453	140.90	3884
37.00	12702	68.00	24816	102.80	235	141.60	303
38.00	11514	69.00	26768	103.80	1476	142.00	247
39.00	3597	70.00	2447	104.80	324	142.90	3513
40.10	652	72.00	1829	105.90	1428	143.90	217
40.90	160	73.00	12039	106.90	211	144.90	325
44.10	2095	74.00	47240	109.80	334	145.80	592
45.00	2002	75.00	133440	110.80	313	147.80	526
46.10	207	76.00	12022	111.90	292	148.90	280
47.00	2877	77.00	1547	112.60	315	149.90	466
47.90	1482	77.90	700	114.80	292	151.80	230
49.00	10842	78.90	11537	115.90	1210	154.80	784
50.00	48584	79.90	2620	116.90	1933	156.70	283
51.00	15209	80.90	11568	118.00	1333	158.70	327
51.90	590	81.80	2538	118.90	1462	160.90	296
54.90	804	83.00	429	122.60	169	171.70	456
56.00	4185	86.00	367	123.70	248	173.90	219456
57.00	7473	87.00	10792	127.90	1007	174.90	17824
57.90	201	88.00	9614	128.80	745	175.90	211328
60.00	2513	90.90	1179	129.90	1221	176.90	14106
61.00	13040	91.90	7795	130.80	590	177.80	453
62.00	12850	93.00	12121	134.80	406		
63.00	10186	94.00	31400	136.90	680		
64.00	905	95.00	249600	138.90	165		
64.90	383	96.00	18112	139.80	203		

Data File: \\NAHSTWS005\Target\chem\voa11.i\f240416.b\f041612.d Page 1

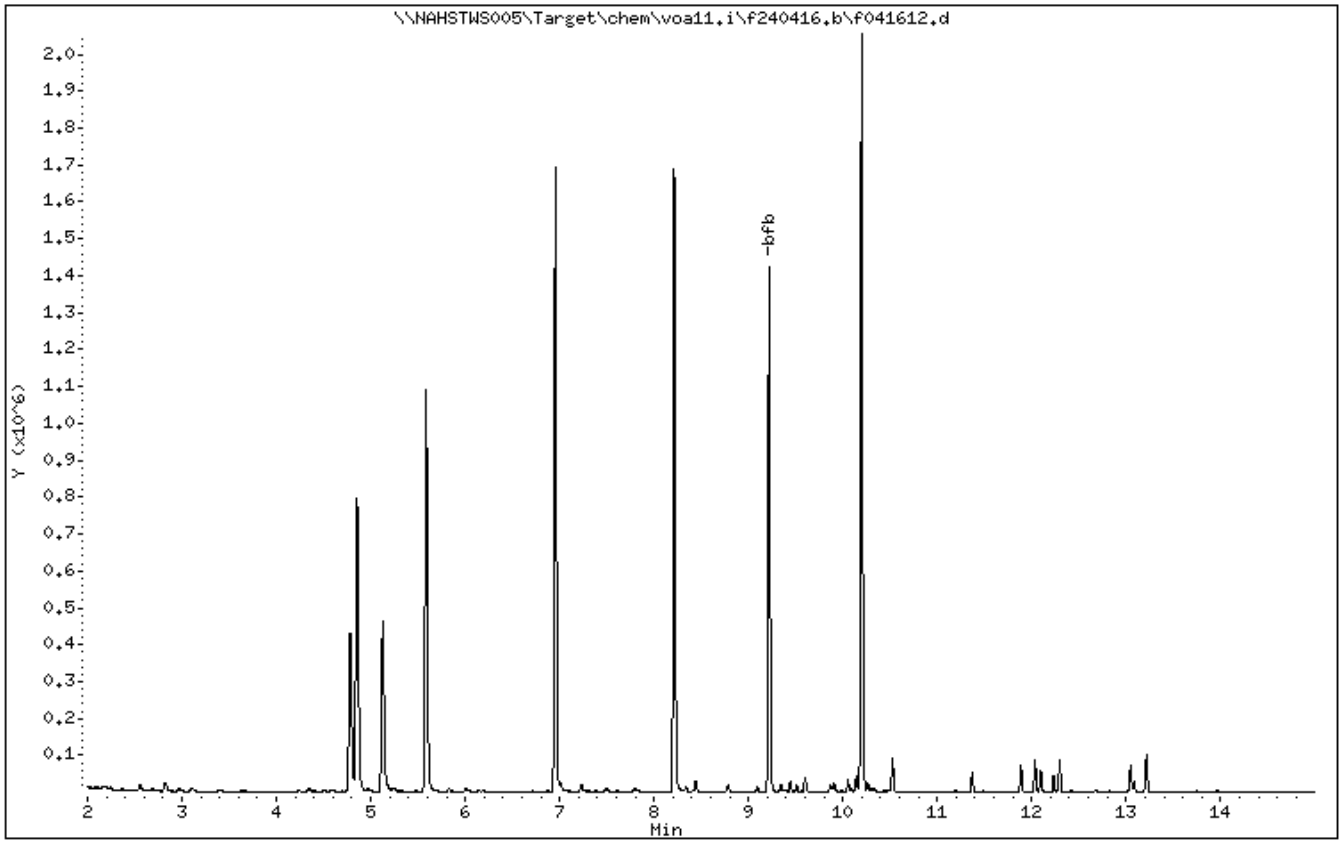
Date : 16-APR-2024 15:17

Client ID: BFB Instrument: voa11.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041614.D Page 1
Report Date: 01-May-2024 10:16

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041614.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 16-APR-2024 16:01
Operator : FT Inst ID: voa11.i
Smp Info : VSTD050;VSTD050;2;;
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 01-May-2024 10:15 salina.zai Quant Type: ISTD
Cal Date : 16-APR-2024 13:26 Cal File: F041607.D
Als bottle: 14 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14

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	4.856	4.856	(1.000)	588003	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.171	(0.241)	312215	50.0000	48.45
3 Chloromethane	50	1.306	1.306	(0.269)	498429	50.0000	43.91
4 Propionitrile	54	4.339	4.339	(0.893)	831495	500.000	559.04
5 Vinyl Chloride	62	1.389	1.389	(0.286)	299787	50.0000	47.81
6 Bromomethane	94	1.632	1.632	(0.336)	166221	50.0000	45.41
7 Chloroethane	64	1.715	1.715	(0.353)	185415	50.0000	46.02
8 Trichlorofluoromethane	101	1.925	1.925	(0.396)	469319	50.0000	47.01
158 Dichlorofluoromethane	67	1.876	1.876	(0.386)	455200	50.0000	46.11
9 Acrolein	56	2.281	2.281	(0.470)	53750	100.000	100.36
10 Acetone	43	2.423	2.423	(0.499)	154912	100.000	93.77
11 1,1-Dichloroethene	96	2.363	2.363	(0.487)	252748	50.0000	50.82
12 Isobutyl Alcohol	43	5.239	5.239	(1.079)	107797	1000.00	1186.56(M)
13 Acetonitrile	39	2.705	2.705	(0.557)	338737	500.000	479.99
14 Allyl Chloride	41	2.701	2.701	(0.556)	713311	50.0000	49.63
15 Iodomethane	142	2.495	2.495	(0.514)	382455	100.000	112.30
16 Acrylonitrile	53	3.076	3.076	(0.633)	219707	100.000	96.22
17 Methylene Chloride	84	2.825	2.825	(0.582)	309324	50.0000	47.96
18 Methyl tert-butyl ether	73	3.113	3.113	(0.641)	695592	50.0000	48.74
19 Carbon Disulfide	76	2.555	2.555	(0.526)	1565261	100.000	103.47
20 trans-1,2-Dichloroethene	96	3.098	3.098	(0.638)	287603	50.0000	52.69

21 Vinyl Acetate	43	3.642	3.642 (0.750)	1031161	100.000	98.78
22 1,1-Dichloroethane	63	3.556	3.556 (0.732)	482459	50.0000	52.28

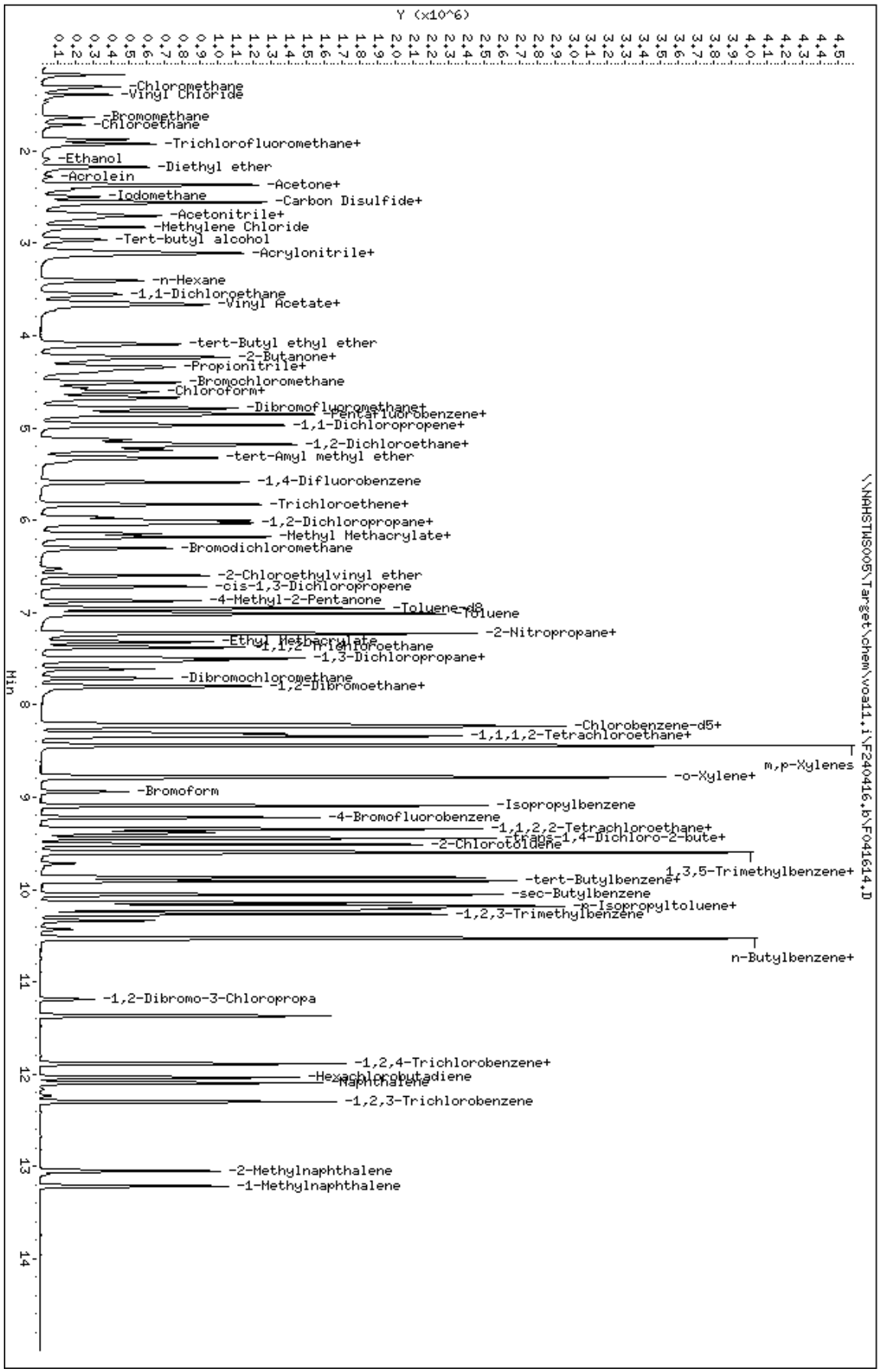
			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.275	4.275	(0.880)	219722	100.000	99.30
	25	Methacrylonitrile	41	4.230	4.230	(0.871)	210851	50.0000	48.21
	26	2,2-Dichloropropane	77	4.230	4.230	(0.871)	315192	50.0000	47.49
	27	cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	325087	50.0000	55.68
	28	Chloroform	83	4.609	4.609	(0.949)	536630	50.0000	50.37
	29	Bromochloromethane	128	4.504	4.504	(0.927)	158917	50.0000	49.21
$	30	Dibromofluoromethane	113	4.781	4.781	(0.985)	295863	50.0000	51.55
	31	1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	475214	50.0000	56.50
	32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	374570	50.0000	55.09
	33	1,2-Dichloroethane	62	5.205	5.205	(0.932)	441678	50.0000	49.24
	34	Carbon Tetrachloride	117	4.965	4.965	(0.889)	403190	50.0000	56.13
$	35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	358036	50.0000	50.35
*	36	1,4-Difluorobenzene	114	5.587	5.587	(1.000)	861300	50.0000	
	37	Benzene	78	5.179	5.179	(0.927)	1106901	50.0000	52.46
	38	Trichloroethene	130	5.827	5.827	(1.043)	340023	50.0000	53.97
	39	Bromodichloromethane	83	6.303	6.303	(1.128)	393616	50.0000	54.56
	40	Methyl Methacrylate	41	6.180	6.180	(1.272)	468463	50.0000	48.04
	41	2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	343794	100.000	96.61
	42	1,2-Dichloropropane	63	6.037	6.037	(1.081)	286955	50.0000	52.97
	43	2-Nitropropane	43	7.229	7.229	(1.489)	319911	50.0000	51.98
	44	Dibromomethane	93	6.146	6.146	(1.100)	207779	50.0000	52.81
	45	4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	478162	100.000	119.38
	46	cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	430817	50.0000	47.52
*	47	Chlorobenzene-d5	117	8.215	8.215	(1.000)	766974	50.0000	
$	48	Toluene-d8	98	6.956	6.956	(0.847)	1073590	50.0000	58.87
	49	Ethyl Methacrylate	69	7.316	7.316	(1.309)	406649	50.0000	53.30
	50	Toluene	91	7.016	7.016	(0.854)	1232208	50.0000	54.45
	51	trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	386762	50.0000	51.62
	52	2-Hexanone	43	7.229	7.229	(0.880)	319911	100.000	111.46
	53	1,1,2-Trichloroethane	83	7.375	7.375	(0.898)	239998	50.0000	54.78
	54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	489989	50.0000	56.20
	55	Dibromochloromethane	129	7.717	7.717	(0.939)	311602	50.0000	49.38
	56	Tetrachloroethene	164	7.495	7.495	(0.912)	279259	50.0000	54.26
	57	1,2-Dibromoethane	107	7.807	7.807	(0.950)	313117	50.0000	52.72
	58	1-Chlorohexane	55	8.230	8.230	(1.473)	247508	50.0000	47.39
	59	Chlorobenzene	112	8.238	8.238	(1.003)	846557	50.0000	51.79
	60	1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	304925	50.0000	59.20
	61	Ethylbenzene	106	8.339	8.339	(1.015)	431145	50.0000	59.86(M)
	62	m,p-Xylenes	106	8.440	8.440	(1.027)	1074646	100.000	109.18
	63	o-Xylene	106	8.778	8.778	(1.068)	518228	50.0000	53.81
	64	Styrene	104	8.789	8.789	(1.070)	884434	50.0000	53.87
	66	Bromoform	173	8.942	8.942	(1.089)	180231	50.0000	56.73
	67	Isopropylbenzene	105	9.092	9.092	(1.107)	1348928	50.0000	55.00
	68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	385199	50.0000	56.32
$	69	4-Bromofluorobenzene	95	9.220	9.220	(1.122)	394256	50.0000	54.62
*	70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	408271	50.0000	(M)
	71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	365748	50.0000	59.82(M)
	72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	77964	50.0000	57.18
	73	n-Propylbenzene	91	9.445	9.445	(0.926)	1560568	50.0000	56.71
	74	Bromobenzene	156	9.344	9.344	(0.916)	376349	50.0000	54.83
	75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	1182344	50.0000	54.95
	76	2-Chlorotoluene	91	9.512	9.512	(0.933)	954037	50.0000	56.20

77	4-Chlorotoluene	91	9.602	9.602 (0.942)	1127126	50.0000	54.97
78	tert-Butylbenzene	119	9.868	9.868 (0.968)	1006615	50.0000	54.71

	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	9.910	9.910	(0.972)	1152780	50.0000	54.93
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	1420414	50.0000	55.23
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	1255253	50.0000	54.40
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	694315	50.0000	60.46
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	705145	50.0000	53.66
87	n-Butylbenzene	91	10.524	10.524	(1.032)	1030449	50.0000	52.68
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	678875	50.0000	57.80
89	1,2-Dibromo-3-Chloropropane	155	11.192	11.192	(1.097)	48799	50.0000	55.81
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	431791	50.0000	59.13
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	219361	50.0000	55.99
92	Naphthalene	128	12.095	12.095	(1.186)	998184	50.0000	58.01(M)
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	429393	50.0000	60.74
146	Methyl acetate	43	2.735	2.735	(0.563)	294343	50.0000	50.69
138	Freon TF	101	2.371	2.371	(0.488)	289572	50.0000	48.34
139	Diethyl ether	59	2.172	2.172	(0.447)	350402	50.0000	50.35
141	Cyclohexane	56	4.841	4.841	(0.997)	410801	50.0000	50.90
147	Methylcyclohexane	55	6.003	6.003	(1.074)	331413	50.0000	50.47
132	n-Butanol	56	5.820	5.820	(1.198)	103372	1000.00	1168.98
131	Methyl Acrylate	55	4.395	4.395	(0.905)	286297	50.0000	52.10
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	328963	50.0000	46.84
135	1,4-Dioxane	88	6.183	6.183	(1.273)	68351	1000.00	1113.98(A)
136	n-Hexane	57	3.406	3.406	(0.701)	301428	50.0000	50.05
142	Tetrahydrofuran	42	4.568	4.568	(0.941)	161665	100.000	112.11
148	Tert-butyl alcohol	59	2.963	2.963	(0.610)	340311	1000.00	1128.85
149	Isopropyl alcohol	45	2.562	2.562	(0.528)	259926	1000.00	1100.54
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	869329	1000.00	1149.98
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	1056869	50.0000	54.97
167	Ethanol	45	2.086	2.086	(0.430)	53950	1000.00	1095.03
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	431791	50.0000	59.13
172	tert-Butyl formate	59	5.239	5.239	(1.079)	232503	100.000	119.73
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	418335	1000.00	1240.70
174	tert-Amyl methyl ether	73	5.325	5.325	(1.096)	649016	50.0000	50.13
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	710060	50.0000	50.69
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	380940	50.0000	62.61
156	Diisopropyl ether	45	3.664	3.664	(0.755)	836298	50.0000	50.98
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	428706	50.0000	68.93
130	Ethyl Acetate	43	4.365	4.365	(0.899)	531084	50.0000	50.97
176	tert-Amyl alcohol	59	5.239	5.239	(1.079)	232503	1000.00	1202.50(A)
M 94	1,2-Dichloroethylene (total)	96				612690	100.000	108.37
M 95	Xylenes (total)	106				1592874	150.000	163.00

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.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Date : 16-APR-2024 16:01
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;
Purge Volume: 5.0
Column phase: DB624
Instrument: voa11.i
Operator: FT
Column diameter: 0.18
Page 1
Y (x10^6)
Min
\\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041614.D
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane+
-Ethanol
-Diethyl ether
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Vinyl Acetate+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-tert-Amyl methyl ether
-1,4-Difluorobenzene
-Trichloroethene+
-1,2-Dichloropropane+
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene-d8
Toluene
-2-Nitropropane+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane+
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
m,p-Xylenes
-o-Xylene+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoldene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-p-Isopropyltoluene+
-1,2,3-Trimethylbenzene
n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene+
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
-1-Methylnaphthalene

Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041614.D
Inj Date : 16-APR-2024 16:01
InstruID : voa11.i
LabSampID : VSTD050

Isobutyl Alcohol (78-83-1)

Reason Code:

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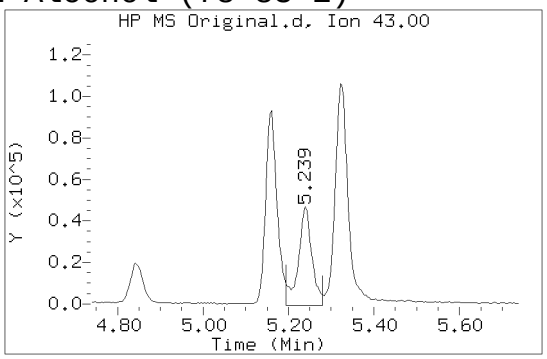
47649
22-Apr-2024
09:42
salina
zaid



AFTER
MASS
43
AREA
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HEIGHT
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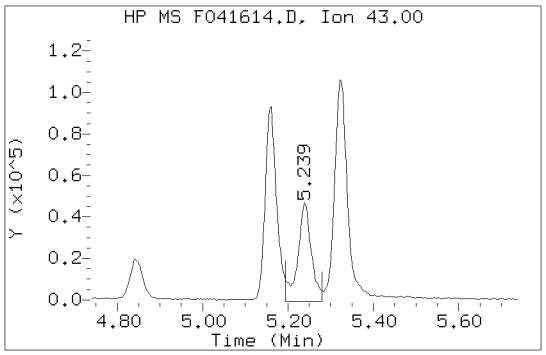
01-May-2024
10:16
salina
zaid



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22-Apr-2024
09:42
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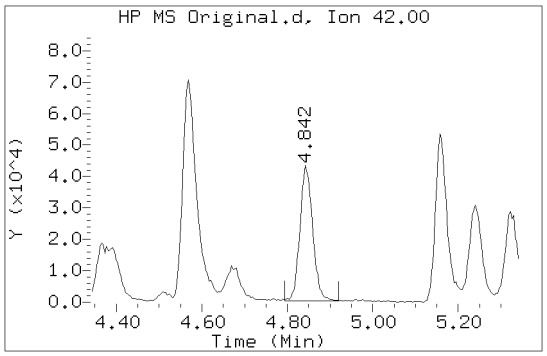

AFTER
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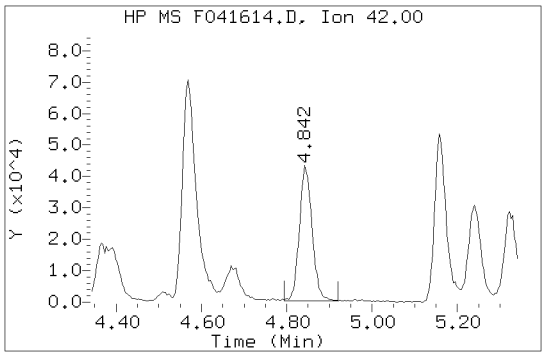

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09:42
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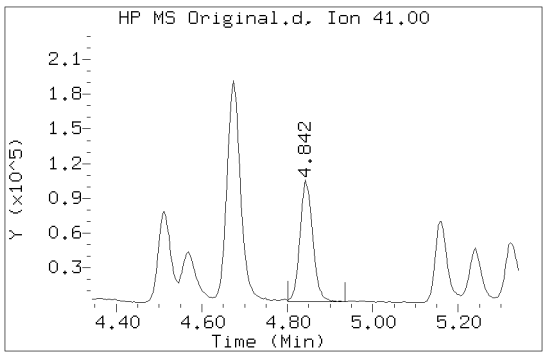

AFTER
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AREA
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HEIGHT
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01-May-2024
10:16
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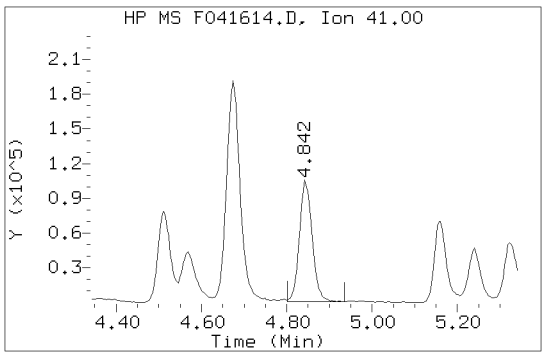

Ethylbenzene (100-41-4)

Reason Code:

BEFORE
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AREA
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HEIGHT
327085
22-Apr-2024
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salina
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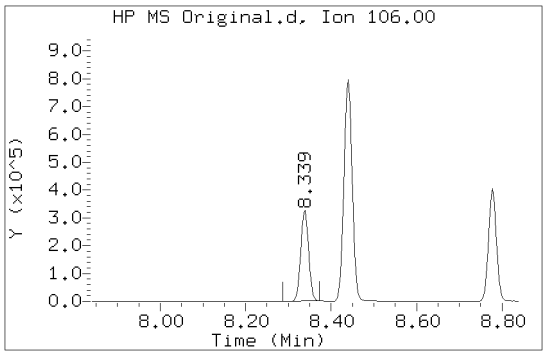

AFTER
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HEIGHT
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01-May-2024
10:16
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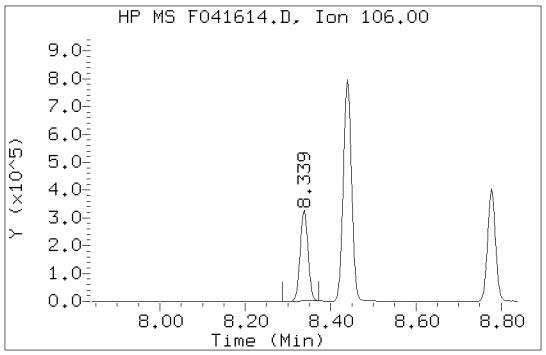

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Inj Date : 16-APR-2024 16:01
InstruID : voa11.i
LabSampID : VSTD050

Ethylbenzene (100-41-4)

Reason Code:

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HEIGHT
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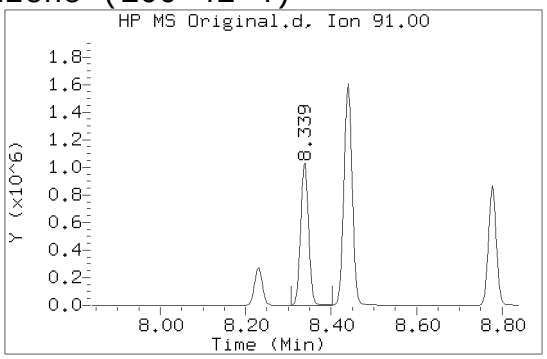
22-Apr-2024
09:42
salina
zaid



AFTER

MASS
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01-May-2024
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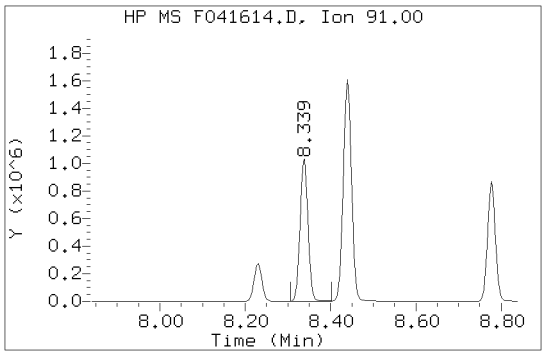

1,4-Dichlorobenzene-d4 ()

Reason Code:

BEFORE

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HEIGHT
323392
22-Apr-2024
09:42
salina
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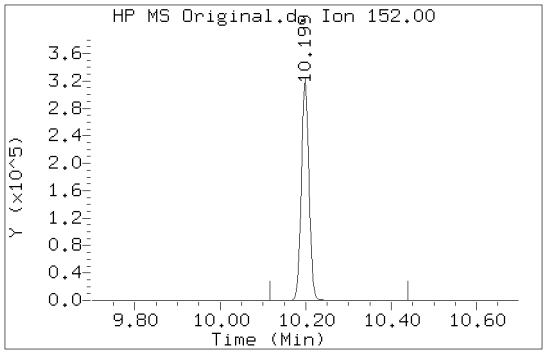

AFTER

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01-May-2024
10:16
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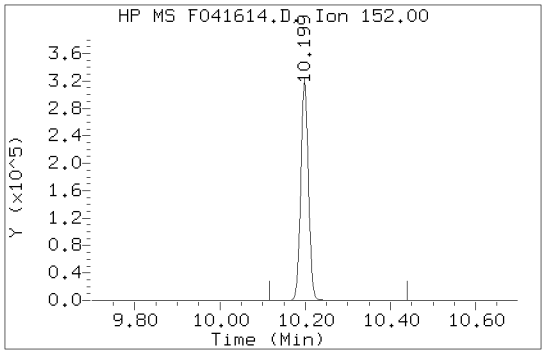

BEFORE

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22-Apr-2024
09:42
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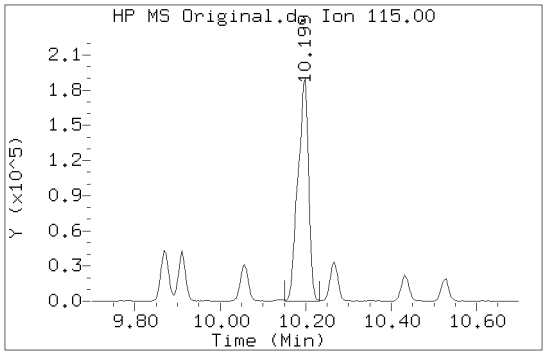

AFTER

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01-May-2024
10:16
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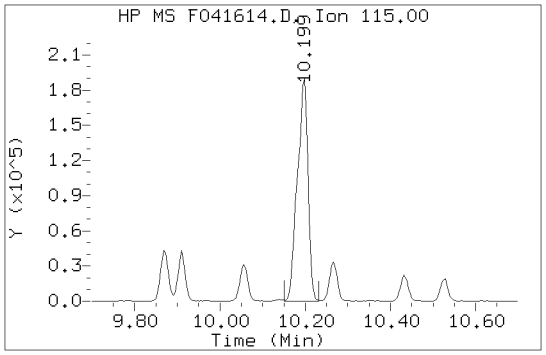

BEFORE

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22-Apr-2024
09:42
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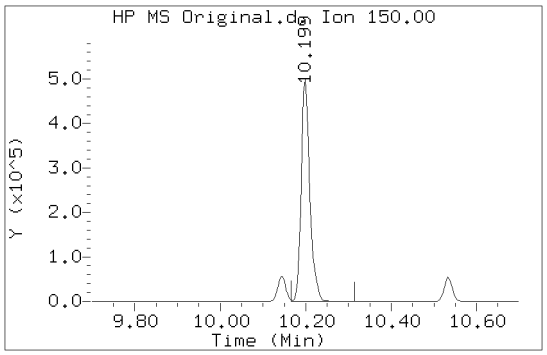

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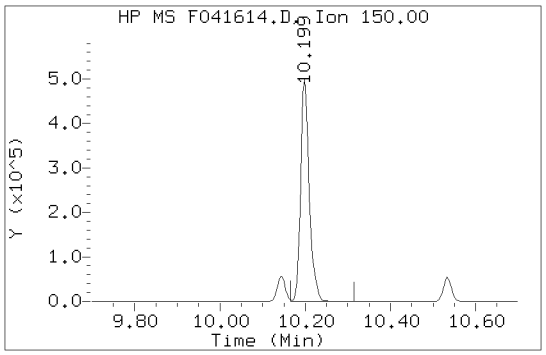

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Inj Date : 16-APR-2024 16:01
InstruID : voa11.i
LabSampID : VSTD050

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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HEIGHT
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22-Apr-2024
09:42
salina
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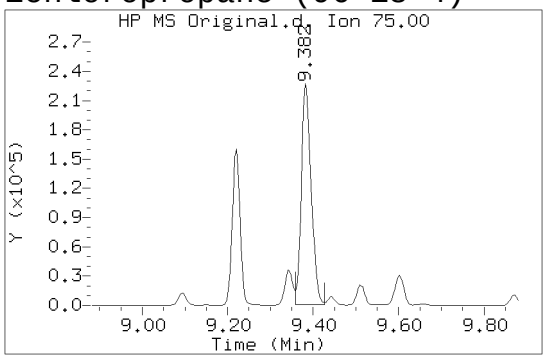

AFTER

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HEIGHT
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01-May-2024
10:16
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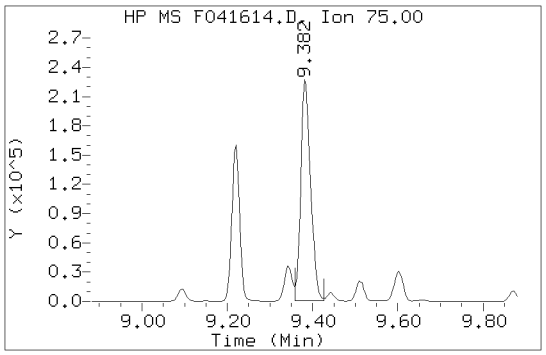

BEFORE

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22-Apr-2024
09:42
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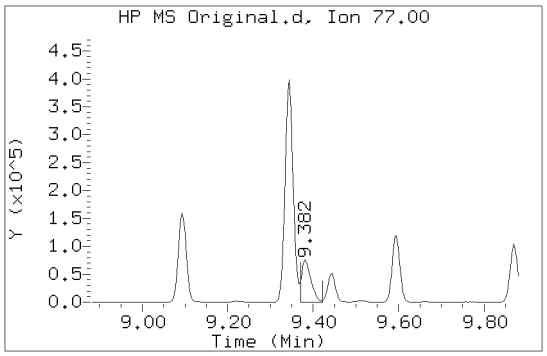

AFTER

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10:16
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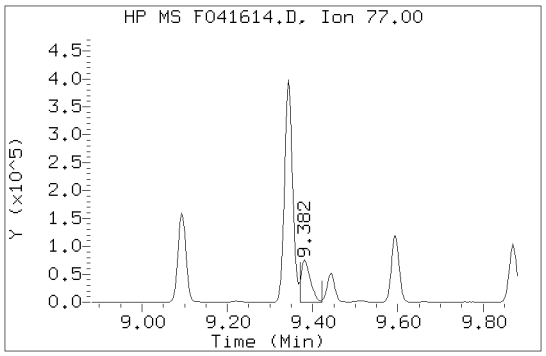

Naphthalene (91-20-3)

Reason Code:

BEFORE

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AREA
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HEIGHT
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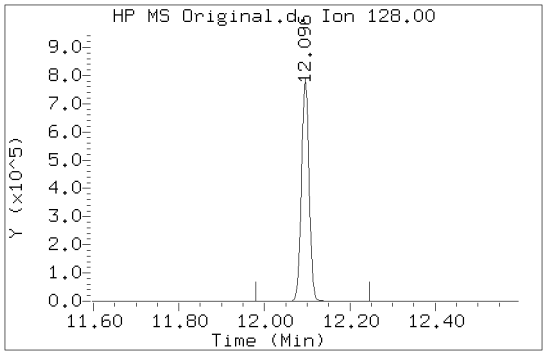
22-Apr-2024
09:42
salina
zaid



AFTER

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HEIGHT
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01-May-2024
10:16
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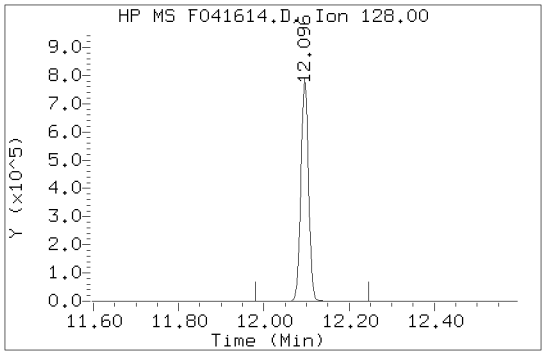


Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041615.D Page 1
Report Date: 22-Apr-2024 09:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041615.D
Lab Smp Id: VLCSW-240416 Client Smp ID: VLCSW-240416
Inj Date : 16-APR-2024 16:23
Operator : FT Inst ID: voa11.i
Smp Info : VLCSW-240416;VLCSW-240416;3;;LCS
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 09:43 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.857	4.856	(1.000)	534076	50.0000	
2 Dichlorodifluoromethane	85	1.172	1.171	(0.241)	110377	18.8604	18.86
3 Chloromethane	50	1.306	1.306	(0.269)	175577	17.0323	17.03
4 Propionitrile	54	4.335	4.339	(0.893)	287151	212.555	212.55
5 Vinyl Chloride	62	1.389	1.389	(0.286)	109650	19.2561	19.25
6 Bromomethane	94	1.629	1.632	(0.335)	68678	20.2263	20.22
7 Chloroethane	64	1.715	1.715	(0.353)	74805	20.4447	20.44
8 Trichlorofluoromethane	101	1.921	1.925	(0.396)	179949	19.8487	19.84
158 Dichlorofluoromethane	67	1.876	1.876	(0.386)	181592	20.2540	20.25
9 Acrolein	56	2.277	2.281	(0.469)	19260	42.8511	42.85
10 Acetone	43	2.420	2.423	(0.498)	60985	42.7853	42.78
11 1,1-Dichloroethene	96	2.364	2.363	(0.487)	93551	20.7110	20.71
12 Isobutyl Alcohol	43	5.239	5.239	(1.079)	35268	440.031	440.03(M)
13 Acetonitrile	39	2.705	2.705	(0.557)	124512	200.834	200.83
14 Allyl Chloride	41	2.705	2.701	(0.557)	244942	20.1507	20.15
15 Iodomethane	142	2.495	2.495	(0.514)	138922	52.2845	52.28
16 Acrylonitrile	53	3.076	3.076	(0.633)	75070	38.7801	38.78
17 Methylene Chloride	84	2.821	2.825	(0.581)	109408	18.5142	18.51
18 Methyl tert-butyl ether	73	3.113	3.113	(0.641)	239130	20.5329	20.53
19 Carbon Disulfide	76	2.555	2.555	(0.526)	548515	39.9234	39.92

20 trans-1,2-Dichloroethene	96	3.102	3.098 (0.639)	98186	19.8054	19.80
21 Vinyl Acetate	43	3.642	3.642 (0.750)	348792	39.4068	39.40

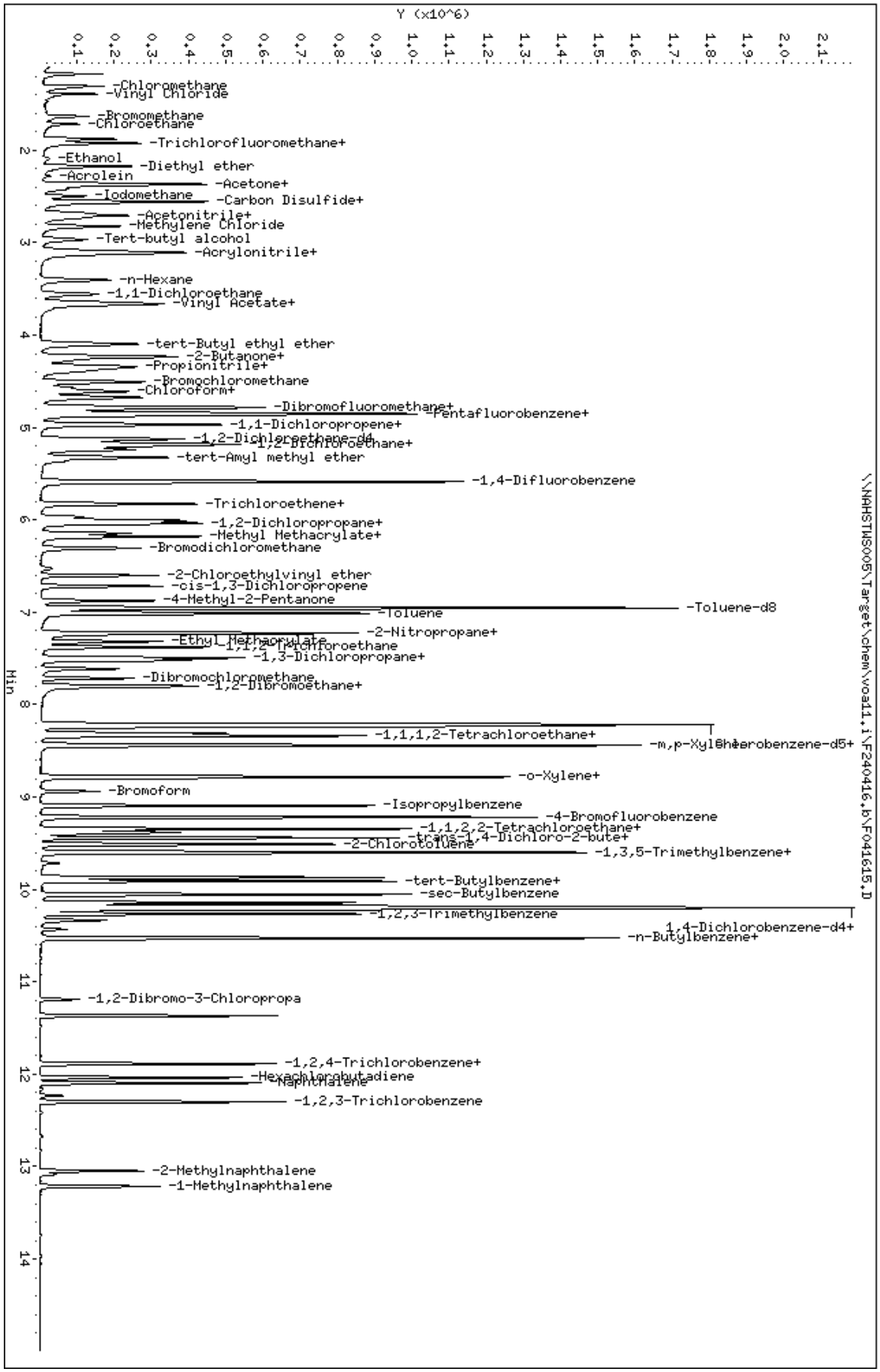
		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)
	22 1,1-Dichloroethane	63	3.556	3.556	(0.732)	168799	20.1402	20.14
	24 2-Butanone	43	4.275	4.275	(0.880)	72456	39.6814	39.68
	25 Methacrylonitrile	41	4.230	4.230	(0.871)	75021	18.8882	18.88
	26 2,2-Dichloropropane	77	4.230	4.230	(0.871)	102047	18.9824	18.98
	27 cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	111342	20.9983	20.99
	28 Chloroform	83	4.609	4.609	(0.949)	187569	19.3865	19.38
	29 Bromochloromethane	128	4.508	4.504	(0.928)	56589	19.2963	19.29
$	30 Dibromofluoromethane	113	4.782	4.781	(0.985)	240881	46.2428	46.24
	31 1,1,1-Trichloroethane	97	4.793	4.789	(0.987)	164256	21.5037	21.50
	32 1,1-Dichloropropene	75	4.969	4.969	(0.889)	132498	20.0693	20.06
	33 1,2-Dichloroethane	62	5.201	5.205	(0.931)	171044	19.6365	19.63
	34 Carbon Tetrachloride	117	4.965	4.965	(0.889)	132772	19.0353	19.03
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	279178	43.2431	43.24
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	836443	50.0000	
	37 Benzene	78	5.183	5.179	(0.928)	390798	19.0732	19.07
	38 Trichloroethene	130	5.827	5.827	(1.043)	113515	18.5540	18.55
	39 Bromodichloromethane	83	6.303	6.303	(1.128)	137675	19.6533	19.65
	40 Methyl Methacrylate	41	6.180	6.180	(1.272)	158264	19.8085	19.80
	41 2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	109416	35.7469	35.74
	42 1,2-Dichloropropane	63	6.037	6.037	(1.081)	100489	19.1042	19.10
	43 2-Nitropropane	43	7.229	7.229	(1.489)	129322	23.1379	23.13
	44 Dibromomethane	93	6.146	6.146	(1.100)	77002	20.1559	20.15
	45 4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	173144	45.1623	45.16
	46 cis-1,3-Dichloropropene	75	6.720	6.719	(1.203)	151197	18.9931	18.99
*	47 Chlorobenzene-d5	117	8.212	8.215	(1.000)	781086	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	953407	51.4848	51.48
	49 Ethyl Methacrylate	69	7.319	7.316	(1.310)	146888	21.3800	21.37
	50 Toluene	91	7.012	7.016	(0.854)	476819	21.1356	21.13
	51 trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	127796	19.2702	19.27
	52 2-Hexanone	43	7.229	7.229	(0.880)	129322	44.2441	44.24
	53 1,1,2-Trichloroethane	83	7.376	7.375	(0.898)	93596	20.9807	20.98
	54 1,3-Dichloropropane	76	7.522	7.522	(0.916)	187160	21.0810	21.08
	55 Dibromochloromethane	129	7.713	7.717	(0.939)	106186	18.5520	18.55
	56 Tetrachloroethene	164	7.492	7.495	(0.912)	103716	19.7889	19.78
	57 1,2-Dibromoethane	107	7.807	7.807	(0.951)	118326	20.3561	20.35
	58 1-Chlorohexane	55	8.227	8.230	(1.472)	94754	18.5267	18.52
	59 Chlorobenzene	112	8.238	8.238	(1.003)	315265	18.9414	18.94
	60 1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	107285	20.4531	20.45
	61 Ethylbenzene	106	8.339	8.339	(1.016)	156623	21.3550	21.35
	62 m,p-Xylenes	106	8.440	8.440	(1.028)	381945	38.2964	38.29
	63 o-Xylene	106	8.778	8.778	(1.069)	180588	19.2271	19.22
	64 Styrene	104	8.789	8.789	(1.070)	309341	19.1764	19.17
	66 Bromoform	173	8.939	8.942	(1.089)	57936	19.1201	19.12
	67 Isopropylbenzene	105	9.093	9.092	(1.107)	466576	19.4681	19.46
	68 1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	147768	19.3260	19.32
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	340151	46.2997	46.29
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	456487	50.0000	
	71 1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	134384	19.6606	19.66
	72 trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	26199	20.1355	20.13
	73 n-Propylbenzene	91	9.441	9.445	(0.926)	582509	19.8621	19.86
	74 Bromobenzene	156	9.344	9.344	(0.916)	146847	20.3413	20.34
	75 1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	425974	18.7261	18.72

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	356451	19.6526	19.65
77	4-Chlorotoluene	91	9.602	9.602 (0.942)	419766	18.8950	18.89

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.869	9.868	(0.968)	360122	18.9320	18.93
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	411953	18.7195	18.71
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	537814	20.0006	20.00
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	473147	19.6184	19.61
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	275806	21.4805	21.48
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	284000	19.3294	19.32
87	n-Butylbenzene	91	10.525	10.524	(1.032)	383446	19.0086	19.00
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	265143	20.1930	20.19
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.192	(1.097)	16641	18.5953	18.59
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	160154	20.5331	20.53
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	82348	18.7989	18.79
92	Naphthalene	128	12.095	12.095	(1.186)	384969	21.0974	21.09
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	163593	20.8018	20.80
146	Methyl acetate	43	2.735	2.735	(0.563)	97228	18.4356	18.43
138	Freon TF	101	2.371	2.371	(0.488)	103703	19.0614	19.06
139	Diethyl ether	59	2.169	2.172	(0.447)	140801	22.2786	22.27
141	Cyclohexane	56	4.845	4.841	(0.998)	140199	18.8266	18.82
147	Methylcyclohexane	55	6.004	6.003	(1.074)	117041	18.1881	18.18
132	n-Butanol	56	5.820	5.820	(1.198)	28845	401.039	401.03
131	Methyl Acrylate	55	4.395	4.395	(0.905)	93434	20.2377	20.23
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	97726	18.3383	18.33
135	1,4-Dioxane	88	6.187	6.183	(1.274)	21637	407.801	407.80(A)
136	n-Hexane	57	3.406	3.406	(0.701)	94569	18.2198	18.21
142	Tetrahydrofuran	42	4.572	4.568	(0.941)	51737	42.2225	42.22
148	Tert-butyl alcohol	59	2.963	2.963	(0.610)	107874	430.383	430.38
149	Isopropyl alcohol	45	2.562	2.562	(0.528)	92160	460.812	460.81
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	281933	421.041	421.04
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	409806	20.0828	20.08
167	Ethanol	45	2.090	2.086	(0.430)	21843	485.902	485.90
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	160154	20.5331	20.53
172	tert-Butyl formate	59	5.239	5.239	(1.079)	70761	43.7560	43.75
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	143842	440.443	440.44
174	tert-Amyl methyl ether	73	5.321	5.325	(1.096)	213027	20.6882	20.68
175	tert-Butyl ethyl ether	59	4.096	4.095	(0.843)	233706	20.5468	20.54
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	109617	19.5055	19.50
156	Diisopropyl ether	45	3.664	3.664	(0.755)	291879	20.3785	20.37
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	130680	21.6794	21.67
130	Ethyl Acetate	43	4.365	4.365	(0.899)	178438	20.5492	20.54
176	tert-Amyl alcohol	59	5.239	5.239	(1.079)	70761	439.827	439.82(A)
M 94	1,2-Dichloroethylene (total)	96				209528	40.8037	40.80
M 95	Xylenes (total)	106				562533	57.5235	57.52

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



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Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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Isobutyl Alcohol (78-83-1)

Reason Code:

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22-Apr-2024
09:42
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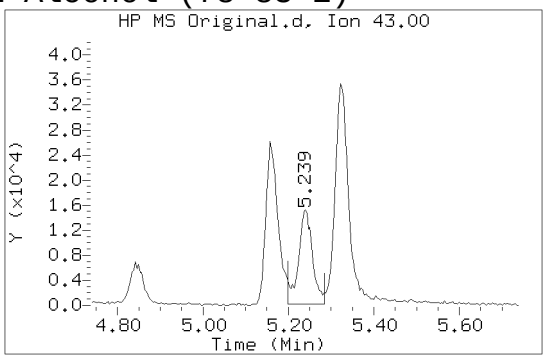

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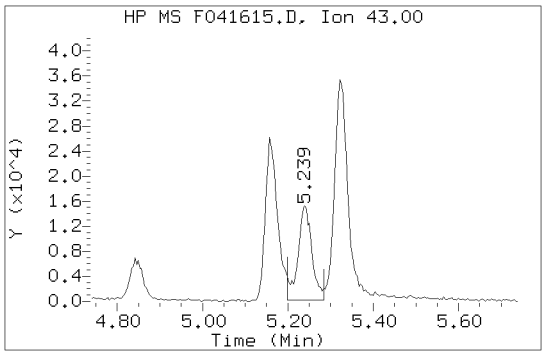

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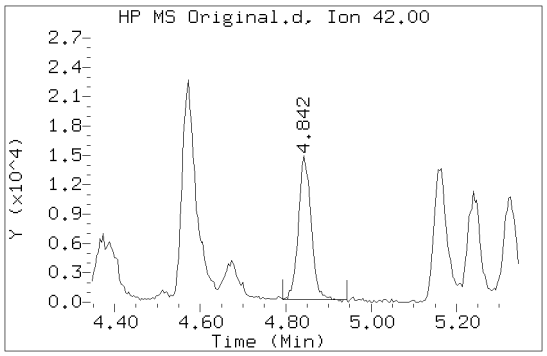

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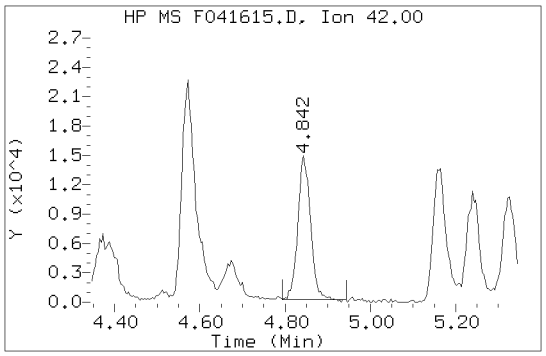

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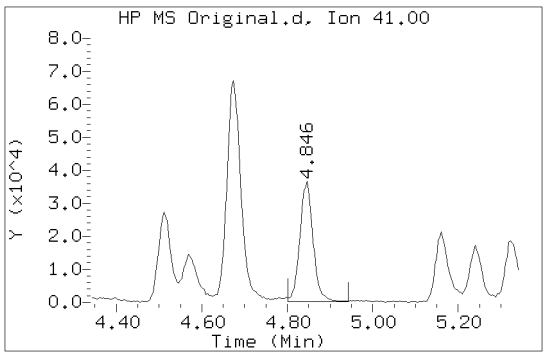

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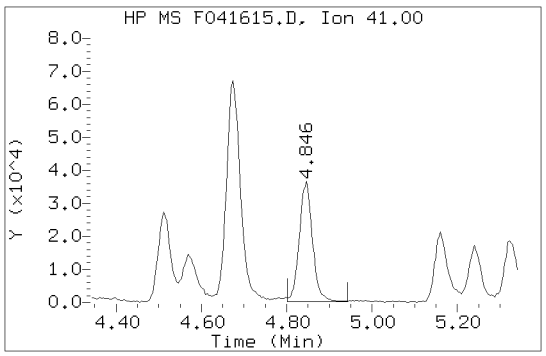

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Report Date: 22-Apr-2024 09:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041616.D
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Operator : FT Inst ID: voa11.i
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Misc Info : V11;WATER;0;1;
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Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 15 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.856	4.856	(1.000)	533459	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.241)	105779	18.0956	18.09
3	Chloromethane	50	1.306	1.306	(0.269)	183163	17.7887	17.78
4	Propionitrile	54	4.339	4.339	(0.893)	275825	204.408	204.40
5	Vinyl Chloride	62	1.389	1.389	(0.286)	105277	18.5095	18.50
6	Bromomethane	94	1.625	1.632	(0.335)	56319	16.3678	16.36
7	Chloroethane	64	1.715	1.715	(0.353)	68844	18.8373	18.83
8	Trichlorofluoromethane	101	1.921	1.925	(0.396)	166902	18.4309	18.43
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	172514	19.2637	19.26
9	Acrolein	56	2.277	2.281	(0.469)	17369	39.0676	39.06
10	Acetone	43	2.424	2.423	(0.499)	58253	41.0810	41.08
11	1,1-Dichloroethene	96	2.364	2.363	(0.487)	89409	19.8169	19.81
12	Isobutyl Alcohol	43	5.239	5.239	(1.079)	29295	364.998	364.99(M)
13	Acetonitrile	39	2.705	2.705	(0.557)	121577	196.575	196.57
14	Allyl Chloride	41	2.701	2.701	(0.556)	258185	21.1414	21.14
15	Iodomethane	142	2.499	2.495	(0.515)	131232	50.1140	50.11
16	Acrylonitrile	53	3.080	3.076	(0.634)	75265	38.9103	38.91
17	Methylene Chloride	84	2.825	2.825	(0.582)	118031	20.0181	20.01
18	Methyl tert-butyl ether	73	3.117	3.113	(0.642)	241961	20.7564	20.75
19	Carbon Disulfide	76	2.555	2.555	(0.526)	513973	37.4525	37.45

20 trans-1,2-Dichloroethene	96	3.102	3.098 (0.639)	98446	19.8808	19.88
21 Vinyl Acetate	43	3.646	3.642 (0.751)	335930	38.1468	38.14

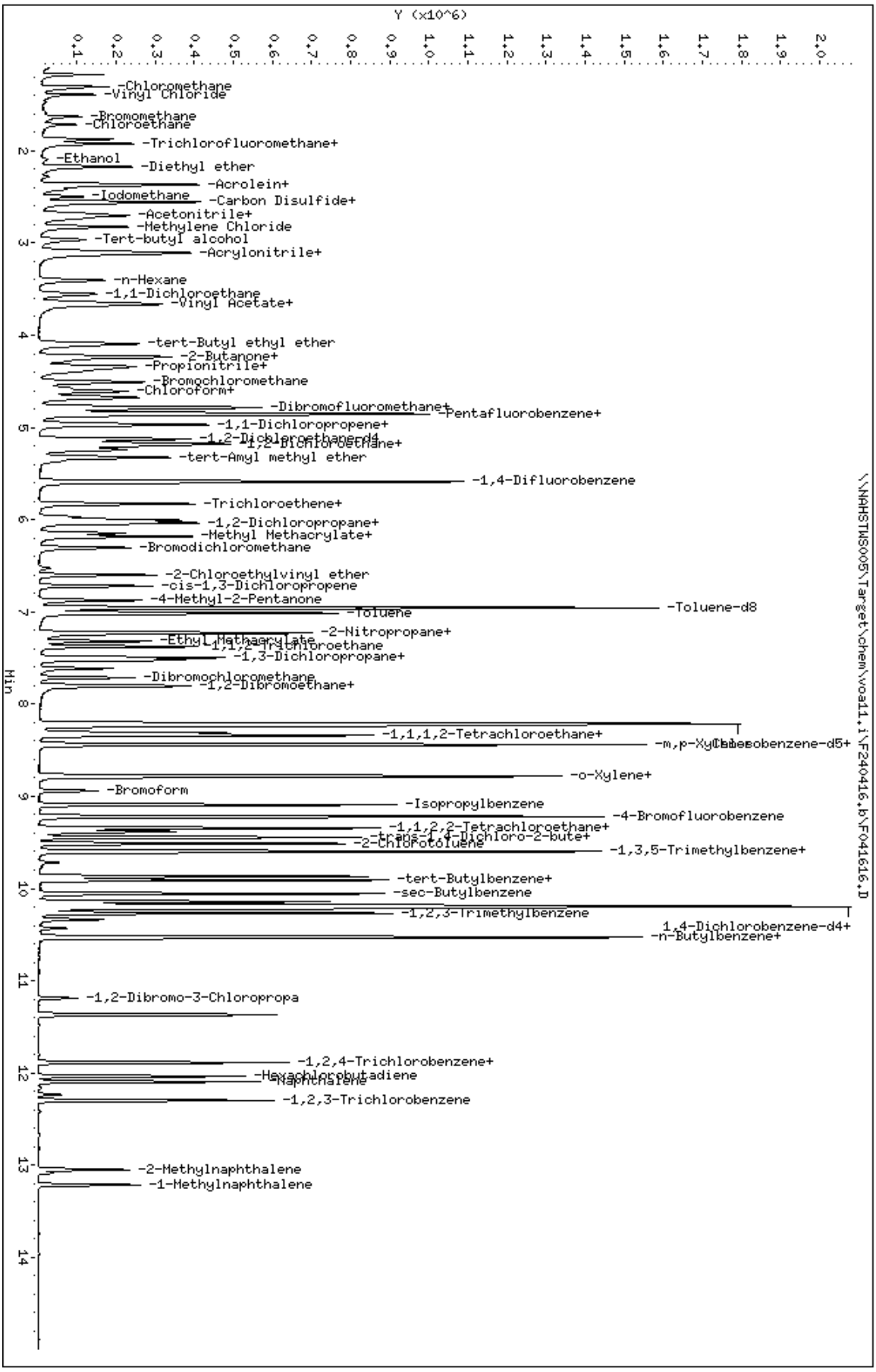
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	22 1,1-Dichloroethane	63	3.552	3.556	(0.731)	159511	19.0540	19.05
	24 2-Butanone	43	4.279	4.275	(0.881)	70271	38.6946	38.69
	25 Methacrylonitrile	41	4.234	4.230	(0.872)	71464	18.0135	18.01
	26 2,2-Dichloropropane	77	4.230	4.230	(0.871)	95610	18.0033	18.00
	27 cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	106058	20.0249	20.02
	28 Chloroform	83	4.609	4.609	(0.949)	181346	18.7650	18.76
	29 Bromochloromethane	128	4.504	4.504	(0.927)	55883	19.0776	19.07
$	30 Dibromofluoromethane	113	4.781	4.781	(0.985)	239138	45.9632	45.96
	31 1,1,1-Trichloroethane	97	4.793	4.789	(0.987)	151523	19.8597	19.85
	32 1,1-Dichloropropene	75	4.969	4.969	(0.889)	117918	18.6465	18.64
	33 1,2-Dichloroethane	62	5.205	5.205	(0.932)	162986	19.5345	19.53
	34 Carbon Tetrachloride	117	4.965	4.965	(0.889)	119707	17.9171	17.91
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	287189	44.5319	44.53
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	801202	50.0000	
	37 Benzene	78	5.179	5.179	(0.927)	368591	18.7807	18.78
	38 Trichloroethene	130	5.827	5.827	(1.043)	107689	18.3760	18.37
	39 Bromodichloromethane	83	6.303	6.303	(1.128)	126489	18.8507	18.85
	40 Methyl Methacrylate	41	6.183	6.180	(1.273)	149533	18.9043	18.90
	41 2-Chloroethylvinyl ether	63	6.603	6.600	(1.182)	105903	36.0574	36.05
	42 1,2-Dichloropropane	63	6.041	6.037	(1.081)	95411	18.9367	18.93
	43 2-Nitropropane	43	7.229	7.229	(1.489)	106305	19.0418	19.04
	44 Dibromomethane	93	6.146	6.146	(1.100)	71336	19.4941	19.49
	45 4-Methyl-2-Pentanone	43	6.877	6.873	(0.837)	145161	37.2353	37.23
	46 cis-1,3-Dichloropropene	75	6.720	6.719	(1.203)	130875	17.4377	17.43
*	47 Chlorobenzene-d5	117	8.212	8.215	(1.000)	803157	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	875131	46.0364	46.03
	49 Ethyl Methacrylate	69	7.319	7.316	(1.310)	126490	19.4067	19.40
	50 Toluene	91	7.016	7.016	(0.854)	405975	17.6242	17.62
	51 trans-1,3-Dichloropropene	75	7.222	7.218	(1.292)	112116	17.8189	17.81
	52 2-Hexanone	43	7.229	7.229	(0.880)	106305	35.3700	35.37
	53 1,1,2-Trichloroethane	83	7.376	7.375	(0.898)	84462	18.4129	18.41
	54 1,3-Dichloropropane	76	7.522	7.522	(0.916)	168954	18.5074	18.50
	55 Dibromochloromethane	129	7.717	7.717	(0.940)	101812	17.5049	17.50
	56 Tetrachloroethene	164	7.492	7.495	(0.912)	88765	16.4709	16.47
	57 1,2-Dibromoethane	107	7.807	7.807	(0.951)	113591	19.0881	19.08
	58 1-Chlorohexane	55	8.227	8.230	(1.472)	87046	17.7575	17.75
	59 Chlorobenzene	112	8.238	8.238	(1.003)	306952	17.9351	17.93
	60 1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	103495	19.1884	19.18
	61 Ethylbenzene	106	8.339	8.339	(1.016)	149857	19.8710	19.87
	62 m,p-Xylenes	106	8.440	8.440	(1.028)	364711	35.5844	35.58
	63 o-Xylene	106	8.778	8.778	(1.069)	195508	20.1783	20.17
	64 Styrene	104	8.789	8.789	(1.070)	333108	20.0340	20.03
	66 Bromoform	173	8.939	8.942	(1.089)	56005	18.0325	18.03
	67 Isopropylbenzene	105	9.092	9.092	(1.107)	475926	19.3221	19.32
	68 1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	133505	18.3982	18.39
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	373116	49.3806	49.38
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	433223	50.0000	
	71 1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	124269	19.1570	19.15
	72 trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	22288	16.8338	16.83
	73 n-Propylbenzene	91	9.441	9.445	(0.926)	516496	18.6486	18.64
	74 Bromobenzene	156	9.344	9.344	(0.916)	130318	19.1413	19.14
	75 1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	396430	18.3922	18.39

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	342384	19.8749	19.87
77	4-Chlorotoluene	91	9.602	9.602 (0.942)	394640	18.7261	18.72

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.868	9.868	(0.968)	332756	18.4880	18.48
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	398102	19.0304	19.03
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	476110	18.7884	18.78
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	417950	18.3937	18.39
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	246682	20.2440	20.24
84	1,4-Dichlorobenzene	146	10.221	10.217	(1.002)	270024	19.3651	19.36
87	n-Butylbenzene	91	10.524	10.524	(1.032)	376958	19.6111	19.61
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	266030	21.3485	21.34
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.192	(1.097)	16250	19.0935	19.09
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	159732	21.5543	21.55
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	81135	19.5166	19.51
92	Naphthalene	128	12.095	12.095	(1.186)	342947	19.9055	19.90
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	148569	19.9126	19.91
146	Methyl acetate	43	2.738	2.735	(0.564)	108482	20.5932	20.59
138	Freon TF	101	2.371	2.371	(0.488)	98546	18.1345	18.13
139	Diethyl ether	59	2.172	2.172	(0.447)	137998	21.8604	21.86
141	Cyclohexane	56	4.845	4.841	(0.998)	133460	17.9197	17.91
147	Methylcyclohexane	55	6.004	6.003	(1.074)	110040	17.8475	17.84
132	n-Butanol	56	5.824	5.820	(1.199)	25838	363.730	363.73
131	Methyl Acrylate	55	4.395	4.395	(0.905)	90355	19.6689	19.66
133	Ethyl Acrylate	55	5.970	5.966	(1.229)	87445	16.8952	16.89
135	1,4-Dioxane	88	6.191	6.183	(1.275)	20781	392.770	392.76(A)
136	n-Hexane	57	3.406	3.406	(0.701)	88762	17.2066	17.20
142	Tetrahydrofuran	42	4.572	4.568	(0.941)	50413	41.2597	41.25
148	Tert-butyl alcohol	59	2.967	2.963	(0.611)	105629	422.628	422.62
149	Isopropyl alcohol	45	2.570	2.562	(0.529)	83825	422.490	422.48
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	222803	353.248	353.24
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	405089	20.8529	20.85
167	Ethanol	45	2.090	2.086	(0.430)	19354	428.609	428.60
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	159732	21.5543	21.55
172	tert-Butyl formate	59	5.243	5.239	(1.079)	61042	38.2069	38.20
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	126589	377.883	377.88
174	tert-Amyl methyl ether	73	5.325	5.325	(1.096)	200600	19.7343	19.73
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	228452	20.1810	20.18
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	90802	17.4706	17.47
156	Diisopropyl ether	45	3.664	3.664	(0.755)	281619	19.7283	19.72
180	1-Methylnaphthalene	142	13.216	13.212	(1.296)	105918	18.8879	18.88
130	Ethyl Acetate	43	4.369	4.365	(0.900)	174764	20.2016	20.20
176	tert-Amyl alcohol	59	5.243	5.239	(1.079)	61042	384.105	384.10(A)
M 94	1,2-Dichloroethylene (total)	96				204504	39.9057	39.90
M 95	Xylenes (total)	106				560219	55.7627	55.76

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.



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Date : 16-APR-2024 16:46
Client ID: VLCSDW-240416
Sample Info: VLCSDW-240416;VLCSDW-240416;3;;LCSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

Page 1

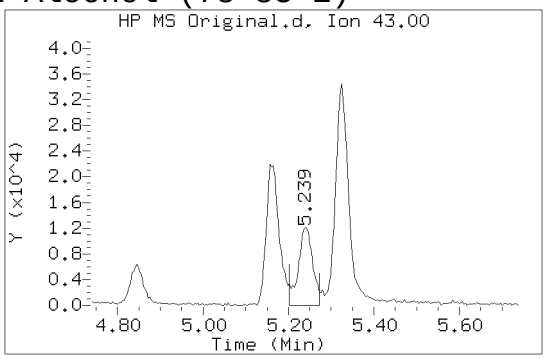
Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041616.D
Inj Date : 16-APR-2024 16:46
InstruID : voa11.i
LabSampID : VLCSDW-240416

Isobutyl Alcohol (78-83-1)

Reason Code:

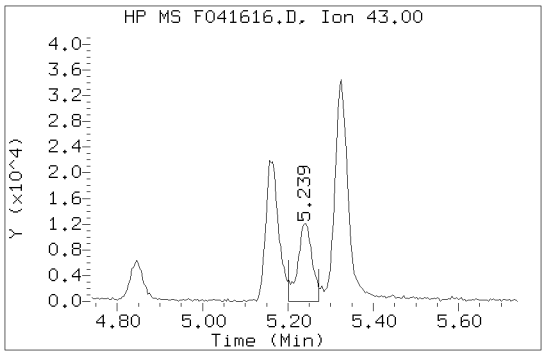
BEFORE

MASS
43
AREA
29295
HEIGHT
12100
22-Apr-2024
09:42
salina
zaid



AFTER

MASS
43
AREA
29295
HEIGHT
12100
22-Apr-2024
09:51
salina
zaid



BEFORE

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HEIGHT
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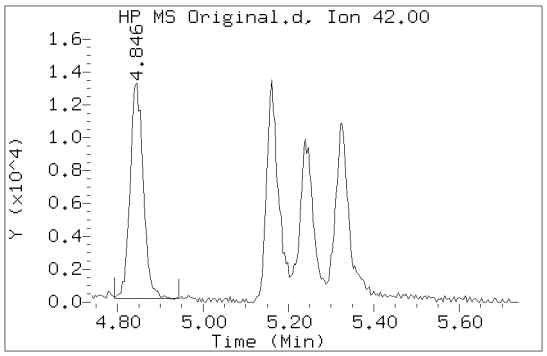
22-Apr-2024
09:42
salina
zaid



AFTER

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AREA
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HEIGHT
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22-Apr-2024
09:51
salina
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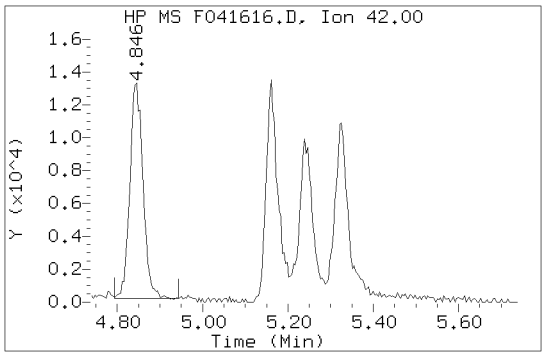

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HEIGHT
35351
22-Apr-2024
09:42
salina
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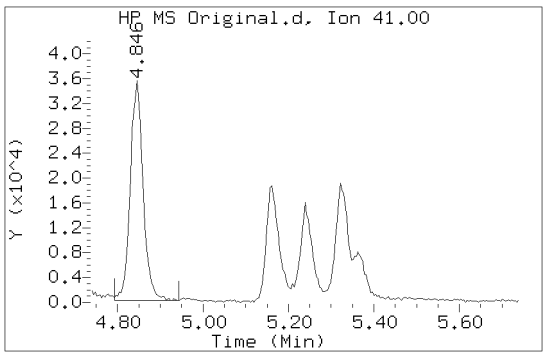

AFTER

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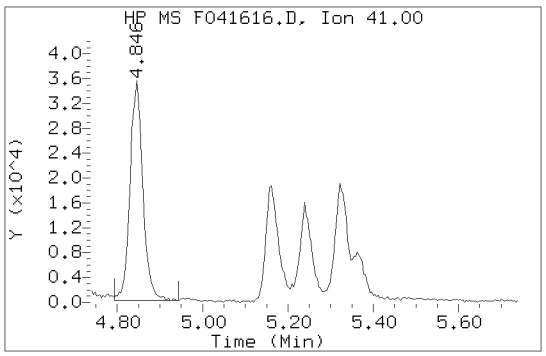
AREA
73632
HEIGHT
35351
22-Apr-2024
09:51
salina
zaid



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041618.D Page 1
Report Date: 22-Apr-2024 09:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041618.D
Lab Smp Id: VBLKW-240416 Client Smp ID: VBLKW-240416
Inj Date : 16-APR-2024 17:30
Operator : FT Inst ID: voa11.i
Smp Info : VBLKW-240416;VBLKW-240416;3;;BLANK
Misc Info : V11;WATER;0;1;
Comment :
Method : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 09:51 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 17 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.857	4.856	(1.000)	486943	50.0000	
$ 30 Dibromofluoromethane	113	4.778	4.781	(0.984)	221142	46.5604	46.56
$ 35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	284444	48.3096	48.30
* 36 1,4-Difluorobenzene	114	5.588	5.587	(1.000)	759762	50.0000	
* 47 Chlorobenzene-d5	117	8.212	8.215	(1.000)	675289	50.0000	
$ 48 Toluene-d8	98	6.956	6.956	(0.847)	810233	50.6228	50.62
$ 69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	315263	49.6238	49.62
* 70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	403917	50.0000	

Data File: \\NAHSTWS005\Target\chem\voa11.i\f240416.b\f041618.d

Date : 16-APR-2024 17:30

Client ID: VBLKW-240416

Instrument: voa11.i

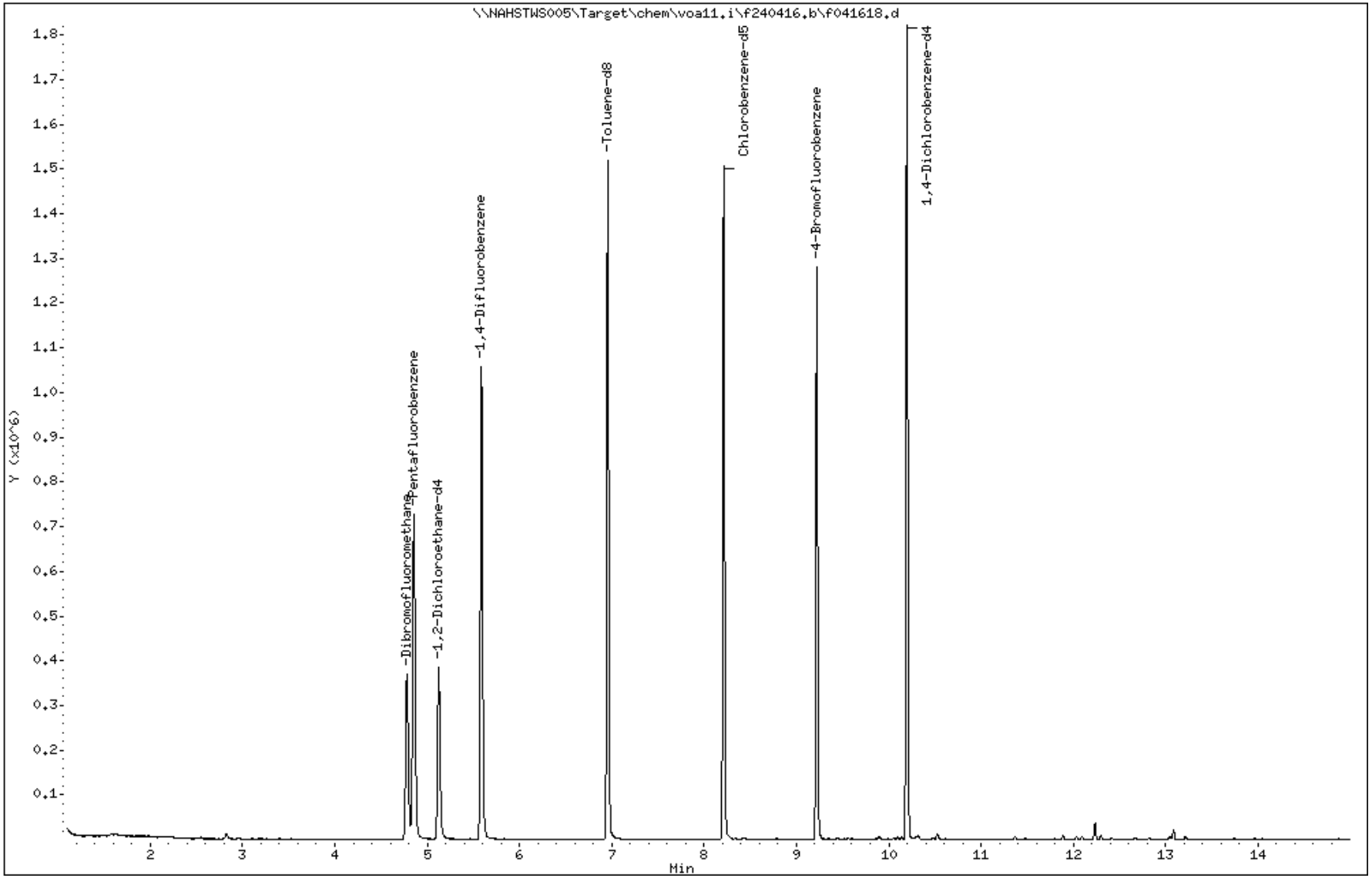
Sample Info: VBLKW-240416;VBLKW-240416;3;;BLANK

Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18



Data File : \\nahstws005\target\chem\voa11.i\f240416.b\f041618.d
Inj Date : 16-APR-2024 17:30
InstruID : voa11.i
LabSampID : VBLKW-240416

 NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041628.D Page 1
Report Date: 22-May-2024 10:58

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Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041628.D
Lab Smp Id: HS24040786-01
Inj Date : 16-APR-2024 21:11
Operator : FT   Inst ID: voa11.i
Smp Info : HS24040786-01
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-May-2024 10:43 s.zaid   Quant Type: ISTD
Cal Date : 16-APR-2024 14:11   Cal File: F041609.D
Als bottle: 27
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

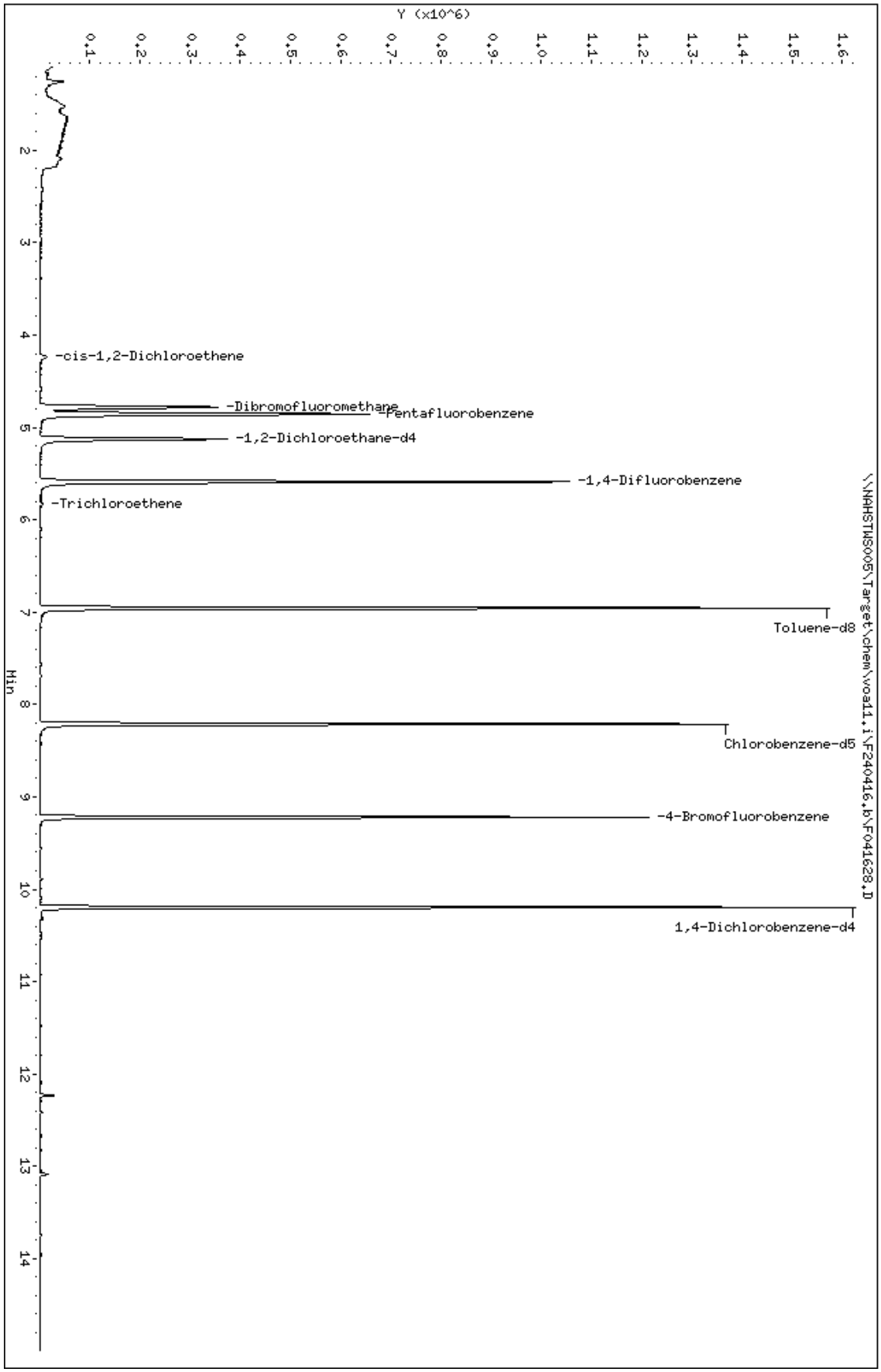
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.857	4.856	(1.000)	423331	50.0000	
	27 cis-1,2-Dichloroethene	96	4.234	4.238	(0.872)	6798	1.61744	1.61
$	30 Dibromofluoromethane	113	4.782	4.781	(0.985)	216281	52.3388	52.33
$	35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	276771	54.0559	54.05
*	36 1,4-Difluorobenzene	114	5.588	5.587	(1.000)	761449	50.0000	
	38 Trichloroethene	130	5.827	5.827	(1.043)	2070	0.37166	0.37(a)
*	47 Chlorobenzene-d5	117	8.212	8.215	(1.000)	619579	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	833754	56.6509	56.65
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	294899	50.5891	50.58
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	343909	50.0000	
M	94 1,2-Dichloroethylene (total)	96				6798	1.61744	1.61(a)

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041628.D
Date : 16-APR-2024 21:11
Client ID:
Sample Info: HS24040786-01
Purge Volume: 5.0
Column phase: DB624
Instrument: voa11.i
Operator: FT
Column diameter: 0.18
Page 1
Y (x10^6)
Min
-cis-1,2-Dichloroethene
-Dibromofluoromethane
Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
-Trichloroethene
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041628.D

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041628.D

Date : 16-APR-2024 21:11

Client ID:

Instrument: voa11.i

Sample Info: HS24040786-01

Purge Volume: 5.0

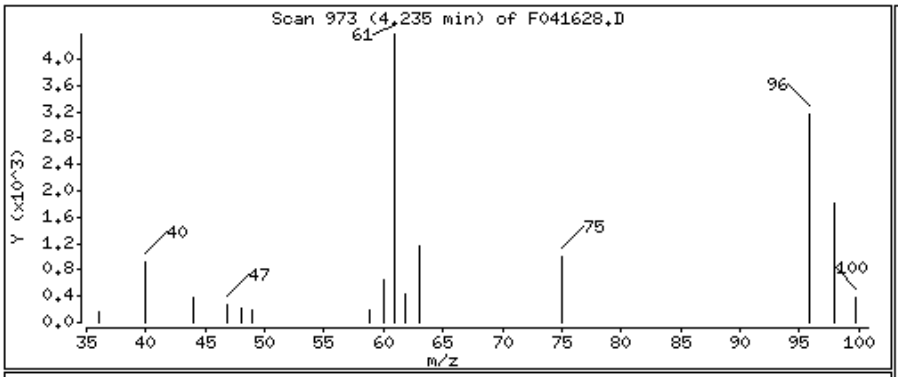
Operator: FT

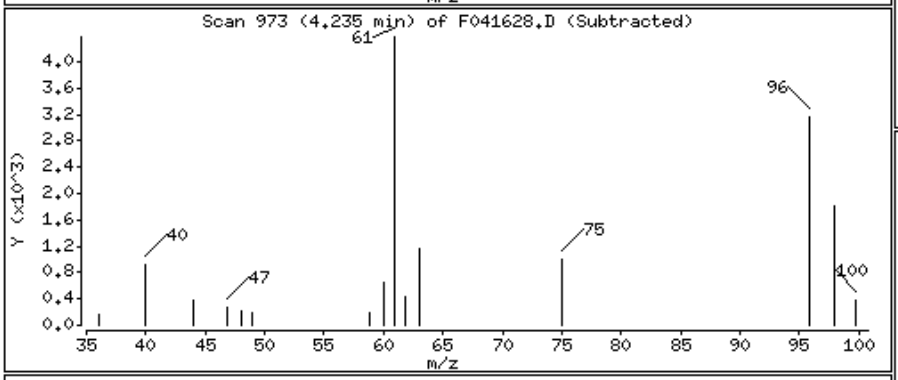
Column phase: DB624

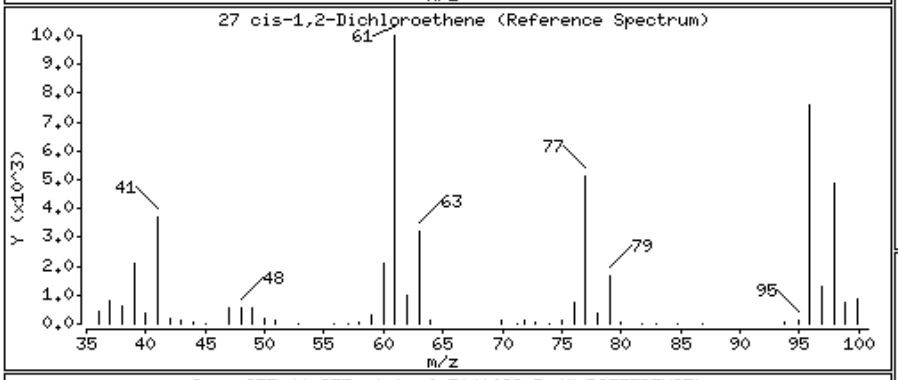
Column diameter: 0.18

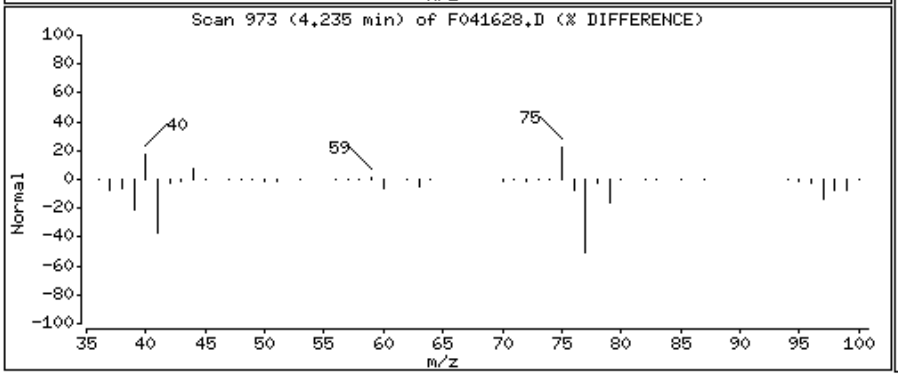
27 cis-1,2-Dichloroethene

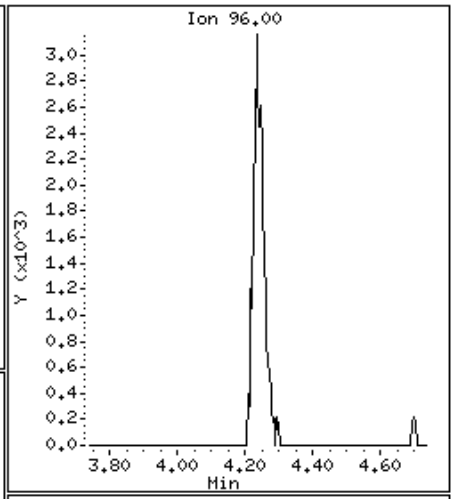
Concentration: 1.61 ug/l

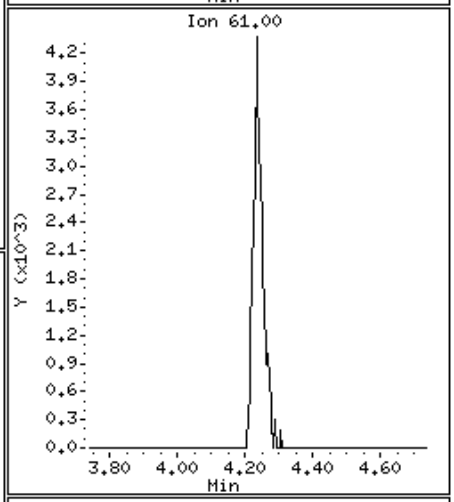


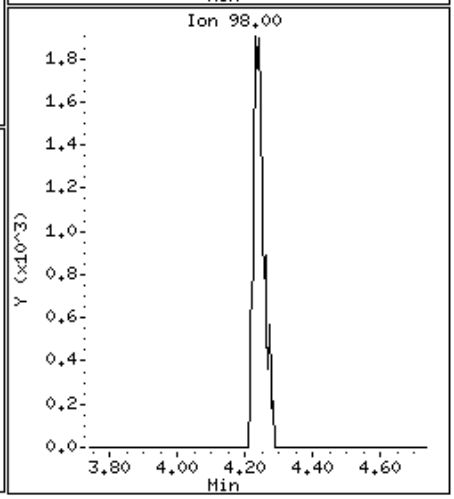












Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041628.D Page 3

Date : 16-APR-2024 21:11

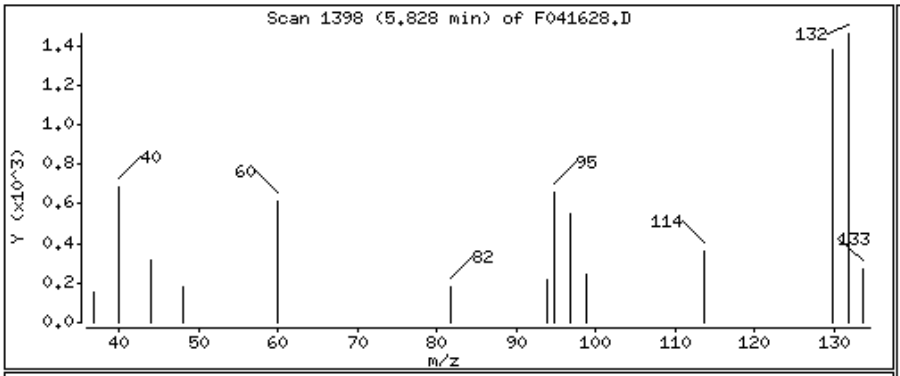
Client ID: Instrument: voa11.i

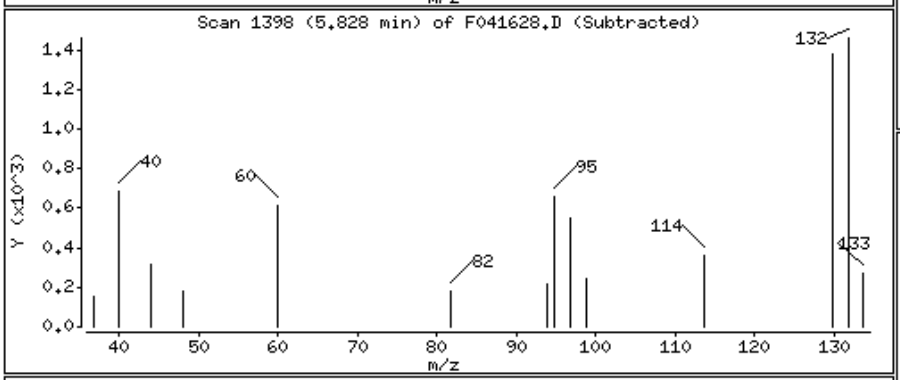
Sample Info: HS24040786-01

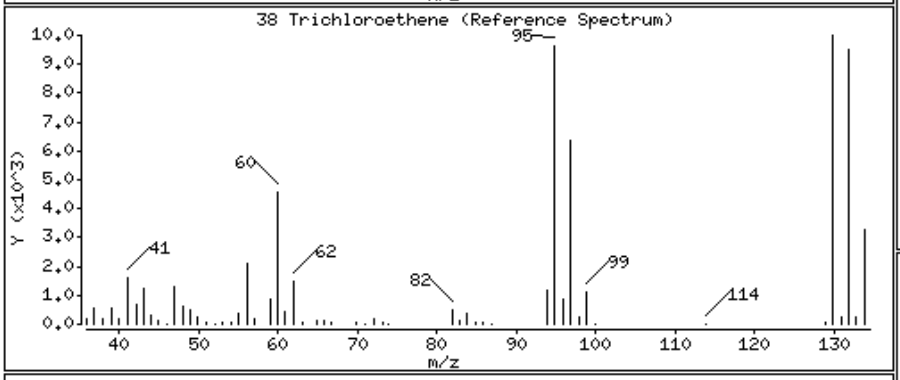
Purge Volume: 5.0 Operator: FT

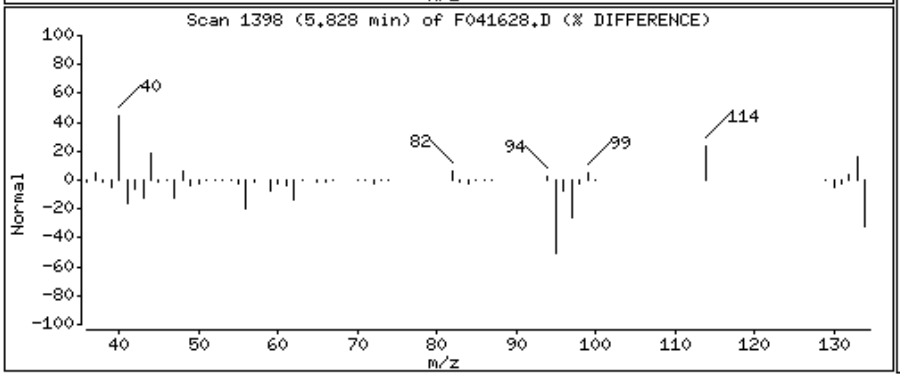
Column phase: DB624 Column diameter: 0.18

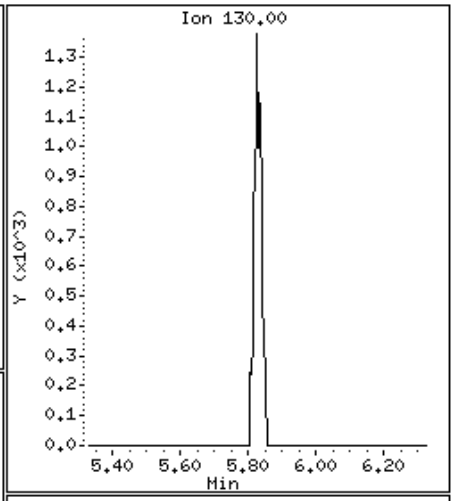
38 Trichloroethene Concentration: 0.37 ug/l

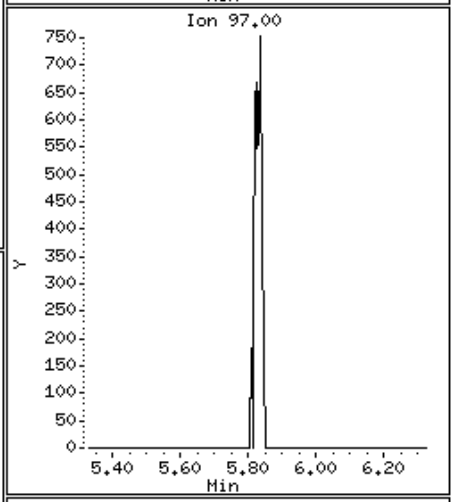


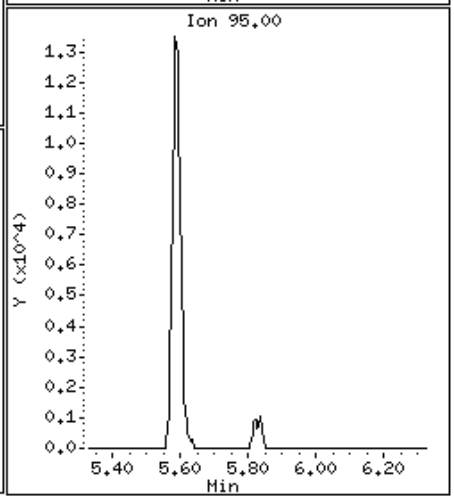












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Inj Date : 16-APR-2024 21:11
InstruID : voa11.i
LabSampID : HS24040786-01

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041632.D Page 1
Report Date: 22-Apr-2024 09:43

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Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041632.D
Lab Smp Id: HS24040905-04MS Client Smp ID: HS24040905-04MS
Inj Date : 16-APR-2024 22:39
Operator : FT Inst ID: voa11.i
Smp Info : HS24040905-04MS;HS24040905-04MS;3;;MS
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-Apr-2024 09:43 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 31 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.860	4.856	(1.000)	523400	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.241)	127490	22.2288	22.22
3	Chloromethane	50	1.306	1.306	(0.269)	185875	18.3990	18.39
4	Propionitrile	54	4.339	4.339	(0.893)	269123	203.274	203.27
5	Vinyl Chloride	62	1.389	1.389	(0.286)	121751	21.8173	21.81
6	Bromomethane	94	1.629	1.632	(0.335)	67515	20.2933	20.29
7	Chloroethane	64	1.715	1.715	(0.353)	87770	24.4774	24.47
8	Trichlorofluoromethane	101	1.921	1.925	(0.395)	193059	21.7291	21.72
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	186912	21.2726	21.27
9	Acrolein	56	2.281	2.281	(0.469)	29714	64.8686	64.86
10	Acetone	43	2.423	2.423	(0.499)	58125	41.7144	41.71
11	1,1-Dichloroethene	96	2.367	2.363	(0.487)	99442	22.4642	22.46
12	Isobutyl Alcohol	43	5.280	5.239	(1.086)	399455	3672.92	3672.91
13	Acetonitrile	39	2.705	2.705	(0.557)	113152	187.038	187.03
14	Allyl Chloride	41	2.705	2.701	(0.557)	229054	19.3301	19.33
15	Iodomethane	142	2.495	2.495	(0.513)	115762	46.2959	46.29
16	Acrylonitrile	53	3.076	3.076	(0.633)	71865	37.9776	37.97
17	Methylene Chloride	84	2.824	2.825	(0.581)	108856	18.8006	18.80
18	Methyl tert-butyl ether	73	3.113	3.113	(0.641)	212006	18.8948	18.89
19	Carbon Disulfide	76	2.555	2.555	(0.526)	553580	41.1139	41.11

20	trans-1,2-Dichloroethene	96	3.098	3.098 (0.638)	101912	20.9763	20.97
21	Vinyl Acetate	43	3.657	3.642 (0.752)	295537	34.6362	34.63

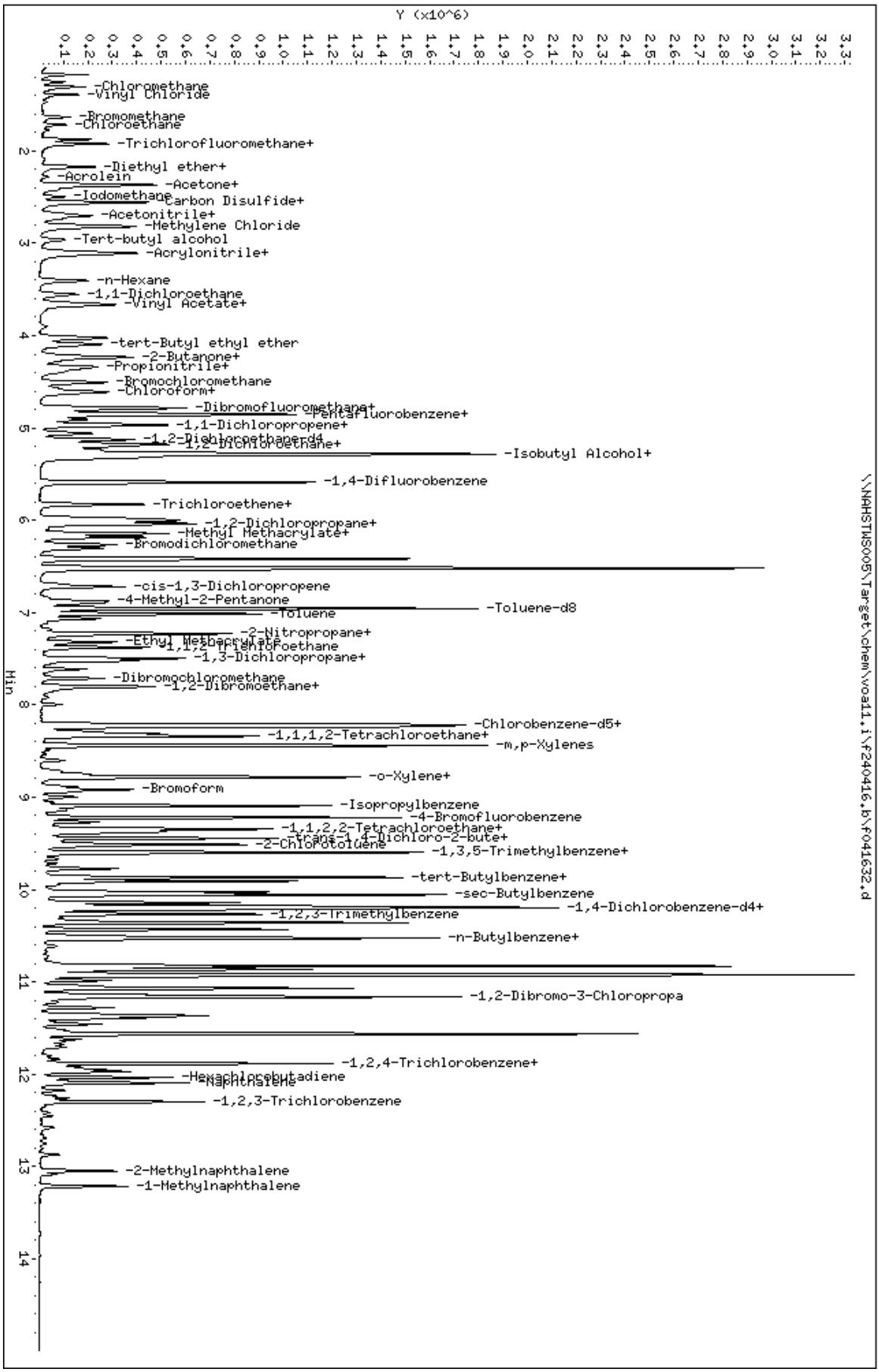
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	22 1,1-Dichloroethane	63	3.555	3.556	(0.732)	174310	21.2219	21.22
	24 2-Butanone	43	4.279	4.275	(0.880)	66745	37.6412	37.64
	25 Methacrylonitrile	41	4.227	4.230	(0.870)	99044	25.4452	25.44
	26 2,2-Dichloropropane	77	4.230	4.230	(0.870)	95743	18.3090	18.30
	27 cis-1,2-Dichloroethene	96	4.238	4.238	(0.872)	113431	21.8286	21.82
	28 Chloroform	83	4.605	4.609	(0.948)	207591	21.8936	21.89
	29 Bromochloromethane	128	4.504	4.504	(0.927)	57513	20.0114	20.01
$	30 Dibromofluoromethane	113	4.781	4.781	(0.984)	239398	46.8909	46.89
	31 1,1,1-Trichloroethane	97	4.789	4.789	(0.985)	169630	22.6602	22.66
	32 1,1-Dichloropropene	75	4.969	4.969	(0.889)	147348	22.9589	22.95
	33 1,2-Dichloroethane	62	5.205	5.205	(0.932)	173709	20.5146	20.51
	34 Carbon Tetrachloride	117	4.965	4.965	(0.889)	142768	21.0556	21.05
$	35 1,2-Dichloroethane-d4	65	5.130	5.126	(1.056)	284401	44.9460	44.94
*	36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	813115	50.0000	
	37 Benzene	78	5.179	5.179	(0.927)	412106	20.6902	20.69
	38 Trichloroethene	130	5.827	5.827	(1.043)	119085	20.0229	20.02
	39 Bromodichloromethane	83	6.303	6.303	(1.128)	142958	20.9929	20.99
	40 Methyl Methacrylate	41	6.183	6.180	(1.272)	159184	20.2488	20.24
	42 1,2-Dichloropropane	63	6.037	6.037	(1.081)	115475	22.5831	22.58
	43 2-Nitropropane	43	7.229	7.229	(1.487)	114742	20.9480	20.94
	44 Dibromomethane	93	6.146	6.146	(1.100)	80052	21.5554	21.55
	45 4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	170774	46.1794	46.17
	46 cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	139648	18.1876	18.18
*	47 Chlorobenzene-d5	117	8.211	8.215	(1.000)	752479	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	991285	55.4841	55.48
	49 Ethyl Methacrylate	69	7.319	7.316	(1.310)	127206	19.2470	19.24
	50 Toluene	91	7.016	7.016	(0.854)	500587	22.9683	22.96
	51 trans-1,3-Dichloropropene	75	7.222	7.218	(1.293)	118875	18.5267	18.52
	52 2-Hexanone	43	7.229	7.229	(0.880)	114742	40.7483	40.74
	53 1,1,2-Trichloroethane	83	7.379	7.375	(0.899)	94127	21.9019	21.90
	54 1,3-Dichloropropane	76	7.522	7.522	(0.916)	187658	21.9407	21.94
	55 Dibromochloromethane	129	7.717	7.717	(0.940)	98817	18.0246	18.02
	56 Tetrachloroethene	164	7.495	7.495	(0.913)	112466	22.2742	22.27
	57 1,2-Dibromoethane	107	7.807	7.807	(0.951)	111863	19.9994	19.99
	58 1-Chlorohexane	55	8.226	8.230	(1.472)	97521	19.6301	19.63
	59 Chlorobenzene	112	8.238	8.238	(1.003)	549830	34.2901	34.29
	60 1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	100595	19.9068	19.90
	61 Ethylbenzene	106	8.339	8.339	(1.016)	156678	22.1746	22.17
	62 m,p-Xylenes	106	8.440	8.440	(1.028)	388161	40.3831	40.38
	63 o-Xylene	106	8.777	8.778	(1.069)	197043	21.6129	21.61
	64 Styrene	104	8.789	8.789	(1.070)	312959	20.0870	20.08
	66 Bromoform	173	8.942	8.942	(1.089)	47912	16.5451	16.54
	67 Isopropylbenzene	105	9.096	9.092	(1.108)	627034	26.6874	26.68
	68 1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	139160	19.5153	19.51
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	365960	51.6881	51.68
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	425725	50.0000	
	71 1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	117751	18.4719	18.47
	72 trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	22511	18.0711	18.07
	73 n-Propylbenzene	91	9.445	9.445	(0.926)	590151	21.4562	21.45
	74 Bromobenzene	156	9.343	9.344	(0.916)	133546	19.8816	19.88
	75 1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	434459	20.3387	20.33
	76 2-Chlorotoluene	91	9.512	9.512	(0.933)	355414	20.9209	20.92

77	4-Chlorotoluene	91	9.602	9.602 (0.942)	422525	20.3241	20.32
78	tert-Butylbenzene	119	9.868	9.868 (0.968)	553622	29.8486	29.84

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	428398	20.6769	20.67
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	888143	33.9045	33.90
82	p-Isopropyltoluene	119	10.179	10.180	(0.998)	468207	20.6988	20.69
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	257511	21.5049	21.50
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	270163	19.7163	19.71
87	n-Butylbenzene	91	10.524	10.524	(1.032)	407151	21.3356	21.33
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	258652	21.1220	21.12
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.192	(1.097)	14739	17.7278	17.72
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	173521	23.7687	23.76
91	Hexachlorobutadiene	225	12.039	12.035	(1.180)	81721	20.0038	20.00
92	Naphthalene	128	12.095	12.095	(1.186)	381040	22.2893	22.28
93	1,2,3-Trichlorobenzene	180	12.297	12.298	(1.206)	164857	22.4646	22.46
146	Methyl acetate	43	2.735	2.735	(0.563)	66975	12.9583	12.95
138	Freon TF	101	2.371	2.371	(0.488)	117188	21.9794	21.97
139	Diethyl ether	59	2.168	2.172	(0.446)	127935	20.6558	20.65
141	Cyclohexane	56	4.845	4.841	(0.997)	159390	21.9178	21.91
147	Methylcyclohexane	55	5.996	6.003	(1.073)	330823	53.3861	53.38
132	n-Butanol	56	5.816	5.820	(1.197)	23767	343.398	343.39
131	Methyl Acrylate	55	4.395	4.395	(0.904)	87195	19.3847	19.38
133	Ethyl Acrylate	55	5.996	5.966	(1.234)	330823	52.3407	52.34
135	1,4-Dioxane	88	6.187	6.183	(1.273)	21589	414.882	414.88(A)
136	n-Hexane	57	3.406	3.406	(0.701)	99874	19.5239	19.52
142	Tetrahydrofuran	42	4.568	4.568	(0.940)	52028	43.2501	43.25
148	Tert-butyl alcohol	59	2.959	2.963	(0.609)	88659	366.552	366.55
149	Isopropyl alcohol	45	2.562	2.562	(0.527)	64417	337.213	337.21
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	231164	360.414	360.41
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	396937	20.7976	20.79
167	Ethanol	45	2.090	2.086	(0.430)	18951	427.705	427.70
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	173521	23.7687	23.76
172	tert-Butyl formate	59	5.239	5.239	(1.078)	58153	37.1823	37.18
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	122519	390.194	390.19
174	tert-Amyl methyl ether	73	5.325	5.325	(1.096)	195613	19.6382	19.63
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	218578	19.7647	19.76
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	118727	22.0715	22.07
156	Diisopropyl ether	45	3.668	3.664	(0.755)	282718	20.1563	20.15
180	1-Methylnaphthalene	142	13.216	13.212	(1.296)	134357	23.6255	23.62
130	Ethyl Acetate	43	4.365	4.365	(0.898)	145839	17.5839	17.58
176	tert-Amyl alcohol	59	5.239	5.239	(1.078)	58153	373.817	373.81(A)
M 94	1,2-Dichloroethylene (total)	96				215343	42.8049	42.80
M 95	Xylenes (total)	106				585204	61.9960	61.99

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa11.i\f240416.b\f041632.d
Date : 16-APR-2024 22:39
Client ID: HS24040905-04HS
Sample Info: HS24040905-04HS;HS24040905-04HS;3;;HS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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LabSampID : HS24040905-04MS

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041633.D Page 1
Report Date: 22-Apr-2024 09:43

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041633.D
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Inj Date : 16-APR-2024 23:02
Operator : FT Inst ID: voa11.i
Smp Info : HS24040905-04MSD;HS24040905-04MSD;3;;MSD
Misc Info : V11;WATER;0;1;
Comment   :
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Meth Date : 22-Apr-2024 09:43 voa11.i Quant Type: ISTD
Cal Date : 16-APR-2024 14:11 Cal File: F041609.D
Als bottle: 31 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.856	4.856	(1.000)	588667	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.171	(0.241)	123727	19.1809	19.18
3 Chloromethane	50	1.306	1.306	(0.269)	184815	16.2658	16.26
4 Propionitrile	54	4.339	4.339	(0.893)	328313	220.487	220.48
5 Vinyl Chloride	62	1.389	1.389	(0.286)	116107	18.4991	18.49
6 Bromomethane	94	1.629	1.632	(0.335)	62303	16.4122	16.41
7 Chloroethane	64	1.715	1.715	(0.353)	80656	19.9996	19.99
8 Trichlorofluoromethane	101	1.921	1.925	(0.396)	183216	18.3349	18.33
158 Dichlorofluoromethane	67	1.876	1.876	(0.386)	180876	18.3033	18.30
9 Acrolein	56	2.277	2.281	(0.469)	29592	58.0205	58.02
10 Acetone	43	2.420	2.423	(0.498)	63635	40.7058	40.70
11 1,1-Dichloroethene	96	2.364	2.363	(0.487)	92291	18.5372	18.53
12 Isobutyl Alcohol	43	5.284	5.239	(1.088)	398182	3428.30	3428.30
13 Acetonitrile	39	2.705	2.705	(0.557)	116831	172.614	172.61
14 Allyl Chloride	41	2.701	2.701	(0.556)	235907	17.8891	17.88
15 Iodomethane	142	2.495	2.495	(0.514)	104398	39.5564	39.55
16 Acrylonitrile	53	3.080	3.076	(0.634)	75056	35.5616	35.56
17 Methylene Chloride	84	2.825	2.825	(0.582)	106550	16.3270	16.32
18 Methyl tert-butyl ether	73	3.117	3.113	(0.642)	223915	17.9479	17.94
19 Carbon Disulfide	76	2.555	2.555	(0.526)	516672	34.1183	34.11

20 trans-1,2-Dichloroethene	96	3.098	3.098 (0.638)	96759	17.7076	17.70
21 Vinyl Acetate	43	3.661	3.642 (0.754)	311465	32.7185	32.71

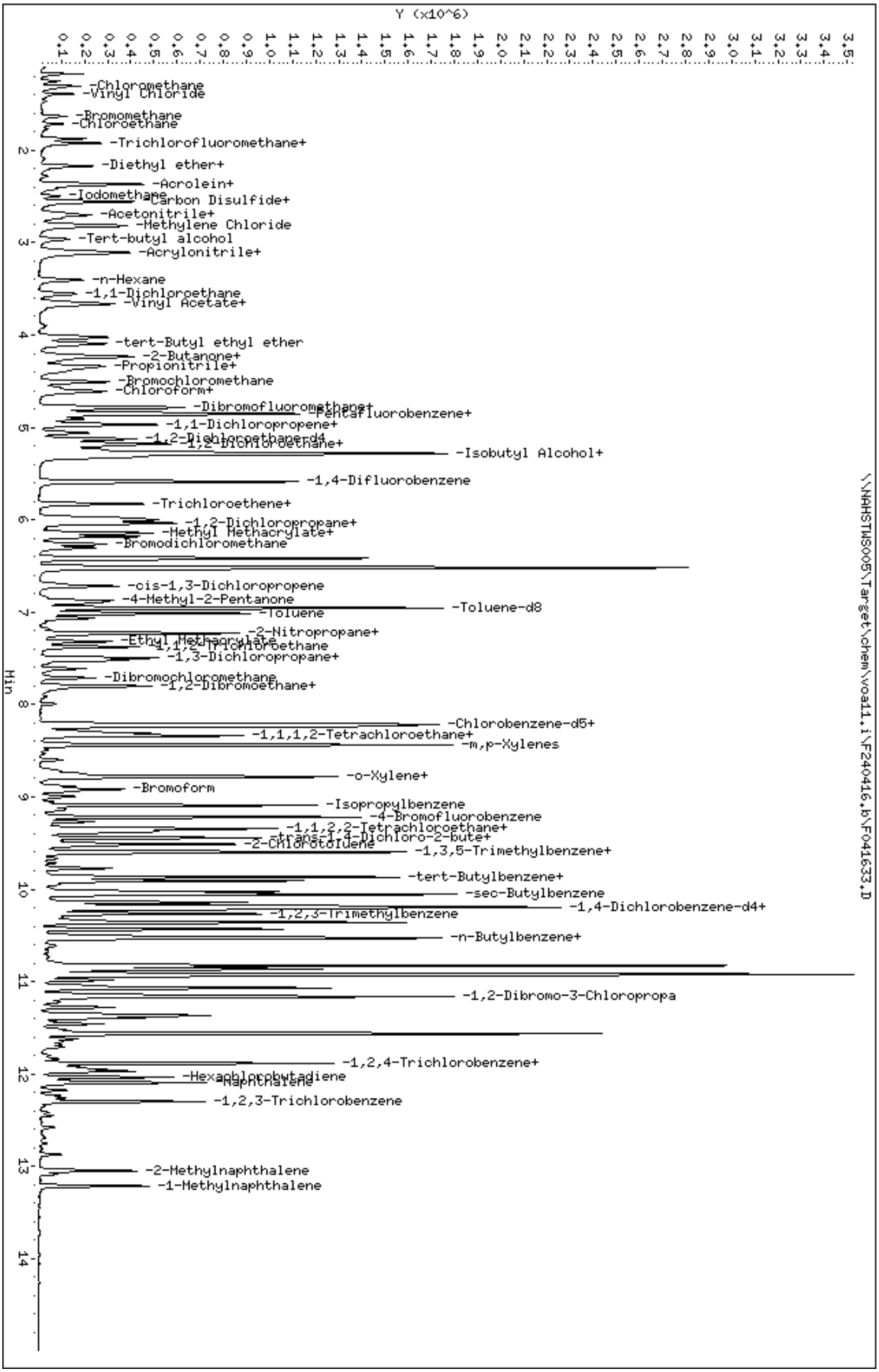
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.552	3.556	(0.731)	177435	19.2073	19.20
24	2-Butanone	43	4.279	4.275	(0.881)	72077	36.3684	36.36
25	Methacrylonitrile	41	4.234	4.230	(0.872)	105614	24.1247	24.12
26	2,2-Dichloropropane	77	4.230	4.230	(0.871)	105193	17.9595	17.95
27	cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	126243	21.6006	21.60
28	Chloroform	83	4.609	4.609	(0.949)	209039	19.6020	19.60
29	Bromochloromethane	128	4.504	4.504	(0.927)	62821	19.4348	19.43
$ 30	Dibromofluoromethane	113	4.781	4.781	(0.985)	263587	45.9114	45.91
31	1,1,1-Trichloroethane	97	4.793	4.789	(0.987)	176498	20.9636	20.96
32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	143018	22.3382	22.33
33	1,2-Dichloroethane	62	5.201	5.205	(0.931)	173612	20.5529	20.55
34	Carbon Tetrachloride	117	4.961	4.965	(0.888)	140063	20.7067	20.70
$ 35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	303900	42.7085	42.70
* 36	1,4-Difluorobenzene	114	5.587	5.587	(1.000)	811150	50.0000	
37	Benzene	78	5.179	5.179	(0.927)	427886	21.5345	21.53
38	Trichloroethene	130	5.827	5.827	(1.043)	127123	21.4262	21.42
39	Bromodichloromethane	83	6.303	6.303	(1.128)	132104	19.4460	19.44
40	Methyl Methacrylate	41	6.180	6.180	(1.272)	158289	18.2602	18.26
42	1,2-Dichloropropane	63	6.037	6.037	(1.081)	102765	20.1461	20.14
43	2-Nitropropane	43	7.229	7.229	(1.489)	126141	20.4758	20.47
44	Dibromomethane	93	6.146	6.146	(1.100)	75251	20.3117	20.31
45	4-Methyl-2-Pentanone	43	6.877	6.873	(0.837)	189649	52.0641	52.06
46	cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	141157	18.3910	18.39
* 47	Chlorobenzene-d5	117	8.211	8.215	(1.000)	736223	50.0000	
$ 48	Toluene-d8	98	6.956	6.956	(0.847)	965266	55.2262	55.22
49	Ethyl Methacrylate	69	7.316	7.316	(1.309)	132790	20.0563	20.05
50	Toluene	91	7.012	7.016	(0.854)	476480	22.3644	22.36
51	trans-1,3-Dichloropropene	75	7.222	7.218	(1.292)	118968	18.5796	18.57
52	2-Hexanone	43	7.229	7.229	(0.880)	126141	45.7856	45.78
53	1,1,2-Trichloroethane	83	7.376	7.375	(0.898)	90988	21.6390	21.63
54	1,3-Dichloropropane	76	7.518	7.522	(0.916)	172193	20.5771	20.57
55	Dibromochloromethane	129	7.717	7.717	(0.940)	90067	16.9999	16.99
56	Tetrachloroethene	164	7.495	7.495	(0.913)	97060	19.6474	19.64
57	1,2-Dibromoethane	107	7.807	7.807	(0.951)	104117	19.0868	19.08
58	1-Chlorohexane	55	8.230	8.230	(1.473)	94889	19.1401	19.14
59	Chlorobenzene	112	8.238	8.238	(1.003)	529223	33.7337	33.73
60	1,1,1,2-Tetrachloroethane	131	8.309	8.313	(1.012)	98100	19.8417	19.84
61	Ethylbenzene	106	8.339	8.339	(1.016)	152317	22.0334	22.03
62	m,p-Xylenes	106	8.440	8.440	(1.028)	377634	40.1570	40.15
63	o-Xylene	106	8.774	8.778	(1.068)	189972	21.3154	21.31
64	Styrene	104	8.789	8.789	(1.070)	304971	20.0106	20.01
66	Bromoform	173	8.939	8.942	(1.089)	50784	17.8482	17.84
67	Isopropylbenzene	105	9.092	9.092	(1.107)	622012	27.0416	27.04
68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	149508	18.9882	18.98
$ 69	4-Bromofluorobenzene	95	9.220	9.220	(1.123)	349997	50.5285	50.52
* 70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	470079	50.0000	
71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	124806	17.7313	17.73
72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	21126	17.3740	17.37
73	n-Propylbenzene	91	9.441	9.445	(0.926)	588301	19.5064	19.50
74	Bromobenzene	156	9.344	9.344	(0.916)	140290	19.0050	19.00
75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	446936	19.0512	19.05
76	2-Chlorotoluene	91	9.509	9.512	(0.932)	355828	19.0910	19.09

77	4-Chlorotoluene	91	9.602	9.602 (0.942)	434413	18.9845	18.98
78	tert-Butylbenzene	119	9.868	9.868 (0.968)	581202	28.4821	28.48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	476403	20.8122	20.81
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	971541	33.6070	33.60
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	520370	20.8216	20.82
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	287722	21.7607	21.76
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	301339	19.9165	19.91
87	n-Butylbenzene	91	10.524	10.524	(1.032)	444703	21.1286	21.12
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	286575	21.1941	21.19
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.192	(1.097)	17673	19.1342	19.13
90	1,2,4-Trichlorobenzene	180	11.885	11.889	(1.165)	191203	23.7208	23.72
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	87668	19.4347	19.43
92	Naphthalene	128	12.095	12.095	(1.186)	461110	24.2689	24.26
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	171342	21.1545	21.15
146	Methyl acetate	43	2.735	2.735	(0.563)	75115	12.9219	12.92
138	Freon TF	101	2.371	2.371	(0.488)	107811	17.9788	17.97
139	Diethyl ether	59	2.172	2.172	(0.447)	134847	19.3578	19.35
141	Cyclohexane	56	4.845	4.841	(0.998)	166591	20.3339	20.33
147	Methylcyclohexane	55	5.970	6.003	(1.068)	313096	50.6344	50.63
132	n-Butanol	56	5.820	5.820	(1.198)	28804	367.058	367.05
131	Methyl Acrylate	55	4.395	4.395	(0.905)	99829	19.6902	19.69
133	Ethyl Acrylate	55	5.970	5.966	(1.229)	313096	44.7546	44.75
135	1,4-Dioxane	88	6.187	6.183	(1.274)	24429	417.303	417.30(A)
136	n-Hexane	57	3.406	3.406	(0.701)	98637	17.3176	17.31
142	Tetrahydrofuran	42	4.571	4.568	(0.941)	57721	42.7022	42.70
148	Tert-butyl alcohol	59	2.963	2.963	(0.610)	111296	405.148	405.14
149	Isopropyl alcohol	45	2.566	2.562	(0.528)	81946	377.714	377.71
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	268756	414.476	414.47
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	434558	20.6337	20.63
167	Ethanol	45	2.094	2.086	(0.431)	20238	404.934	404.93
170	1,3,5-Trichlorobenzene	180	11.885	11.889	(1.165)	191203	23.7208	23.72
172	tert-Butyl formate	59	5.239	5.239	(1.079)	71494	40.3694	40.36
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	128084	416.505	416.50
174	tert-Amyl methyl ether	73	5.321	5.325	(1.096)	207889	18.7783	18.77
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	251491	20.1409	20.14
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	164117	26.6761	26.67
156	Diisopropyl ether	45	3.664	3.664	(0.755)	288595	18.4120	18.41
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	183933	28.6001	28.60
130	Ethyl Acetate	43	4.365	4.365	(0.899)	176693	18.7343	18.73
176	tert-Amyl alcohol	59	5.239	5.239	(1.079)	71494	405.820	405.82(A)
M 94	1,2-Dichloroethylene (total)	96				223002	39.3081	39.30
M 95	Xylenes (total)	106				567606	61.4725	61.47

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



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Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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LabSampID : HS24040905-04MSD

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041634.D Page 1
Report Date: 30-Apr-2024 16:06

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\F041634.D
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Inj Date : 16-APR-2024 23:24
Operator : FT Inst ID: voa11.i
Smp Info : CCV_END;CCV_END;2;;
Misc Info : V11;WATER;0;1;
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Meth Date : 30-Apr-2024 16:04 salina.zai Quant Type: ISTD
Cal Date : 16-APR-2024 11:58 Cal File: F041603.D
Als bottle: 32 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14

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	4.856	4.856	(1.000)	561141	50.0000	
2	Dichlorodifluoromethane	85	1.171	1.171	(0.241)	299946	50.0000	48.78
3	Chloromethane	50	1.306	1.306	(0.269)	454217	50.0000	41.93
4	Propionitrile	54	4.339	4.339	(0.893)	737293	500.000	519.43
5	Vinyl Chloride	62	1.389	1.389	(0.286)	286595	50.0000	47.90
6	Bromomethane	94	1.629	1.629	(0.335)	149329	50.0000	42.76
7	Chloroethane	64	1.715	1.715	(0.353)	190594	50.0000	49.57
8	Trichlorofluoromethane	101	1.921	1.921	(0.396)	464075	50.0000	48.71
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	440305	50.0000	46.74
9	Acrolein	56	2.277	2.277	(0.469)	80520	100.000	150.58
10	Acetone	43	2.423	2.423	(0.499)	139650	100.000	88.79
11	1,1-Dichloroethene	96	2.363	2.363	(0.487)	227285	50.0000	47.89
12	Isobutyl Alcohol	43	5.239	5.239	(1.079)	89453	1000.00	1041.00
13	Acetonitrile	39	2.705	2.705	(0.557)	314134	500.000	466.74
14	Allyl Chloride	41	2.701	2.701	(0.556)	615777	50.0000	45.10
15	Iodomethane	142	2.495	2.495	(0.514)	269160	100.000	86.04
16	Acrylonitrile	53	3.076	3.076	(0.633)	194105	100.000	89.39
17	Methylene Chloride	84	2.821	2.821	(0.581)	274358	50.0000	44.56
18	Methyl tert-butyl ether	73	3.113	3.113	(0.641)	608847	50.0000	44.98
19	Carbon Disulfide	76	2.555	2.555	(0.526)	1327690	100.000	91.97
20	trans-1,2-Dichloroethene	96	3.098	3.098	(0.638)	249556	50.0000	47.91

21 Vinyl Acetate	43	3.642	3.642 (0.750)	921998	100.000	92.81
22 1,1-Dichloroethane	63	3.556	3.556 (0.732)	423664	50.0000	48.11

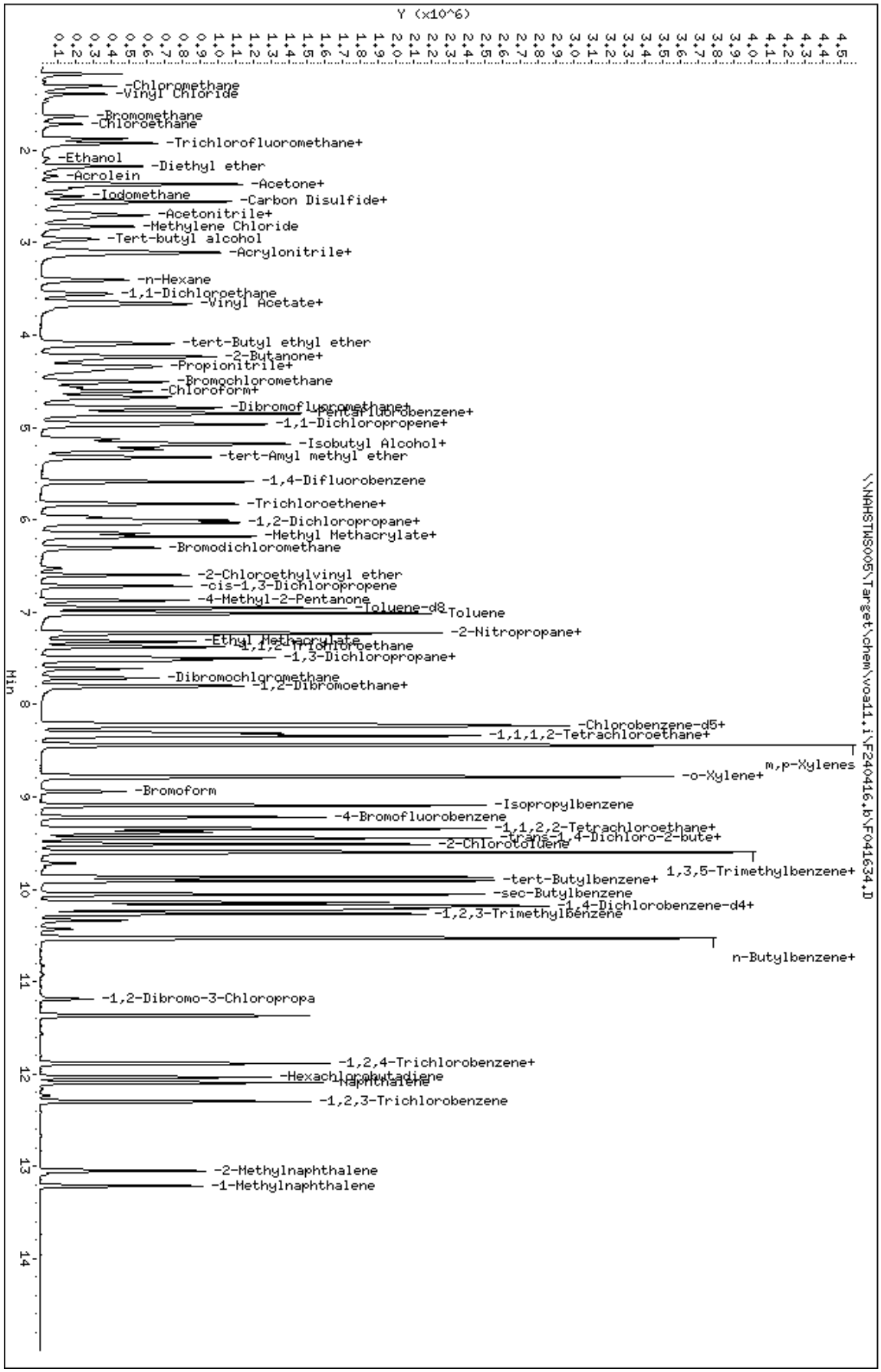
			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	24	2-Butanone	43	4.279	4.279	(0.881)	199411	100.000	94.71
	25	Methacrylonitrile	41	4.230	4.230	(0.871)	201987	50.0000	48.40
	26	2,2-Dichloropropane	77	4.234	4.234	(0.872)	278199	50.0000	44.16
	27	cis-1,2-Dichloroethene	96	4.238	4.238	(0.873)	300813	50.0000	53.99
	28	Chloroform	83	4.609	4.609	(0.949)	500595	50.0000	49.24
	29	Bromochloromethane	128	4.504	4.504	(0.927)	141317	50.0000	45.86
$	30	Dibromofluoromethane	113	4.778	4.778	(0.984)	255631	50.0000	46.70
	31	1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	443312	50.0000	55.23
	32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	343295	50.0000	49.73
	33	1,2-Dichloroethane	62	5.205	5.205	(0.932)	431115	50.0000	47.33
	34	Carbon Tetrachloride	117	4.961	4.961	(0.888)	368231	50.0000	50.49
$	35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	310037	50.0000	45.70
*	36	1,4-Difluorobenzene	114	5.587	5.587	(1.000)	874532	50.0000	
	37	Benzene	78	5.179	5.179	(0.927)	1084786	50.0000	50.63
	38	Trichloroethene	130	5.827	5.827	(1.043)	297486	50.0000	46.50
	39	Bromodichloromethane	83	6.303	6.303	(1.128)	352339	50.0000	48.10
	40	Methyl Methacrylate	41	6.180	6.180	(1.272)	434378	50.0000	46.76
	41	2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	294887	100.000	82.55
	42	1,2-Dichloropropane	63	6.041	6.041	(1.081)	262520	50.0000	47.73
	43	2-Nitropropane	43	7.229	7.229	(1.489)	288281	50.0000	49.09
	44	Dibromomethane	93	6.142	6.142	(1.099)	194103	50.0000	48.59
	45	4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	438595	100.000	98.79
	46	cis-1,3-Dichloropropene	75	6.719	6.719	(1.203)	377126	50.0000	41.36
*	47	Chlorobenzene-d5	117	8.215	8.215	(1.000)	862715	50.0000	
$	48	Toluene-d8	98	6.956	6.956	(0.847)	930710	50.0000	45.58
	49	Ethyl Methacrylate	69	7.316	7.316	(1.309)	358537	50.0000	46.77
	50	Toluene	91	7.012	7.012	(0.854)	1180097	50.0000	46.46
	51	trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	344480	50.0000	45.76
	52	2-Hexanone	43	7.229	7.229	(0.880)	288281	100.000	89.29
	53	1,1,2-Trichloroethane	83	7.375	7.375	(0.898)	217492	50.0000	44.14
	54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	440941	50.0000	44.96
	55	Dibromochloromethane	129	7.717	7.717	(0.939)	271355	50.0000	38.91
	56	Tetrachloroethene	164	7.495	7.495	(0.912)	244497	50.0000	42.23
	57	1,2-Dibromoethane	107	7.807	7.807	(0.950)	296645	50.0000	44.60
	58	1-Chlorohexane	55	8.226	8.226	(1.472)	240750	50.0000	45.39
	59	Chlorobenzene	112	8.238	8.238	(1.003)	847223	50.0000	46.08
	60	1,1,1,2-Tetrachloroethane	131	8.309	8.309	(1.011)	305236	50.0000	52.68
	61	Ethylbenzene	106	8.339	8.339	(1.015)	439652	50.0000	54.27
	62	m,p-Xylenes	106	8.440	8.440	(1.027)	1079976	100.000	97.58
	63	o-Xylene	106	8.777	8.777	(1.068)	531532	50.0000	49.18
	64	Styrene	104	8.789	8.789	(1.070)	903225	50.0000	49.01
	66	Bromoform	173	8.942	8.942	(1.089)	176368	50.0000	49.85
	67	Isopropylbenzene	105	9.092	9.092	(1.107)	1366804	50.0000	49.66
	68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	393214	50.0000	53.63
$	69	4-Bromofluorobenzene	95	9.220	9.220	(1.122)	413069	50.0000	50.88
*	70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	437688	50.0000	
	71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	366951	50.0000	55.99
	72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	69394	50.0000	45.99
	73	n-Propylbenzene	91	9.445	9.445	(0.926)	1569144	50.0000	53.27
	74	Bromobenzene	156	9.344	9.344	(0.916)	372282	50.0000	50.73
	75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	1180861	50.0000	51.30
	76	2-Chlorotoluene	91	9.512	9.512	(0.933)	956665	50.0000	52.65

77	4-Chlorotoluene	91	9.602	9.602 (0.942)	1124388	50.0000	51.21
78	tert-Butylbenzene	119	9.868	9.868 (0.968)	1003672	50.0000	51.03

	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	9.910	9.910	(0.972)	1143043	50.0000	50.93
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	1331180	50.0000	48.53
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	1183281	50.0000	48.07
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	639869	50.0000	51.97
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	662720	50.0000	47.04
87	n-Butylbenzene	91	10.524	10.524	(1.032)	948703	50.0000	45.55
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	636958	50.0000	50.59
89	1,2-Dibromo-3-Chloropropane	155	11.192	11.192	(1.097)	46022	50.0000	49.66
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	407511	50.0000	52.49
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	198812	50.0000	47.33
92	Naphthalene	128	12.095	12.095	(1.186)	955107	50.0000	51.95
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	382210	50.0000	50.46
146	Methyl acetate	43	2.735	2.735	(0.563)	264779	50.0000	47.78
138	Freon TF	101	2.371	2.371	(0.488)	261832	50.0000	45.80
139	Diethyl ether	59	2.172	2.172	(0.447)	335739	50.0000	50.56
141	Cyclohexane	56	4.841	4.841	(0.997)	381403	50.0000	49.51
147	Methylcyclohexane	55	6.003	6.003	(1.074)	308372	50.0000	46.23
132	n-Butanol	56	5.820	5.820	(1.198)	88025	1000.00	1055.52
131	Methyl Acrylate	55	4.392	4.392	(0.904)	247139	50.0000	47.35
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	283552	50.0000	42.74
135	1,4-Dioxane	88	6.187	6.187	(1.274)	59439	1000.00	1020.60(A)
136	n-Hexane	57	3.406	3.406	(0.701)	254840	50.0000	44.50
142	Tetrahydrofuran	42	4.571	4.571	(0.941)	145976	100.000	106.49
148	Tert-butyl alcohol	59	2.963	2.963	(0.610)	287580	1000.00	1011.27
149	Isopropyl alcohol	45	2.566	2.566	(0.528)	220032	1000.00	986.26
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	757455	1000.00	1001.46
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	981607	50.0000	47.83
167	Ethanol	45	2.090	2.090	(0.430)	49021	1000.00	1043.99
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	407511	50.0000	52.49
172	tert-Butyl formate	59	5.239	5.239	(1.079)	209818	100.000	113.85
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	371490	1000.00	996.70
174	tert-Amyl methyl ether	73	5.321	5.321	(1.096)	610100	50.0000	49.44
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	668117	50.0000	50.03
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	342395	50.0000	53.73
156	Diisopropyl ether	45	3.664	3.664	(0.755)	749642	50.0000	47.97
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	356236	50.0000	55.08
130	Ethyl Acetate	43	4.365	4.365	(0.899)	471914	50.0000	47.64
176	tert-Amyl alcohol	59	5.239	5.239	(1.079)	209818	1000.00	1143.53(A)
M 94	1,2-Dichloroethylene (total)	96				550369	100.000	101.90
M 95	Xylenes (total)	106				1611508	150.000	146.76

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



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Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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InstruID : voa11.i
LabSampID : CCV_END

NO MANUAL INTEGRATIONS

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24040786

Client

Bhate Environmental Associates, Inc.

Project

Longhorn GW Treatment Plant Monthly Effluent Samples

05/22/2024

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\voa11.i\F240416.b\G041601.D Page 1
Report Date: 17-Apr-2024 08:58

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\G041601.D
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Misc Info : V11;WATER;0;1;
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Cal Date : Cal File:
Als bottle: 33 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7142

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)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.220	9.280	(0.000)	95	399552			0.00- 100.00	100.00
9.220	9.280	(0.000)	50	77888			15.00- 40.00	19.49
9.220	9.280	(0.000)	75	214336			30.00- 60.00	53.64
9.220	9.280	(0.000)	96	30016			5.00- 9.00	7.51
9.220	9.280	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.220	9.280	(0.000)	174	326848			50.00- 0.00	81.80
9.220	9.280	(0.000)	175	26224			5.00- 9.00	8.02
9.220	9.280	(0.000)	176	313984			95.00- 101.00	96.06
9.220	9.280	(0.000)	177	21848			5.00- 9.00	6.96

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.49
75	30.00 - 60.00% of mass 95	53.64
96	5.00 - 9.00% of mass 95	7.51
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	81.80
175	5.00 - 9.00% of mass 174	6.56 (8.02)
176	95.00 - 101.00% of mass 174	78.58 (96.06)
177	5.00 - 9.00% of mass 176	5.47 (6.96)

Data File: G041601.D
Spectrum: Scan 2301 (9.21)
Location of Maximum: 95.00
Number of points: 111

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4317	65.10	400	103.80	2009	138.90	271
37.00	20568	66.10	215	104.90	893	139.90	391
38.00	16856	66.90	1345	105.90	2353	140.80	4893
39.00	6473	68.00	42016	106.80	1397	141.80	649
40.00	823	69.00	42672	109.00	741	142.90	6504
41.00	355	70.00	3052	109.90	401	143.90	424
43.10	272	71.10	225	111.10	424	144.70	419
44.00	3190	72.00	2715	111.80	309	145.90	708
45.00	3776	73.00	19272	112.80	397	146.90	458
46.00	423	74.00	71712	115.00	366	147.70	957
47.00	4787	75.00	214336	115.90	1481	149.00	253
47.90	3163	76.00	18248	116.90	3163	149.80	496
49.00	16640	76.90	2376	117.90	1799	151.80	203
50.00	77888	78.00	1483	118.90	2969	152.80	289
51.00	25496	78.90	15746	120.00	164	153.80	451
52.10	1309	79.90	4866	122.80	302	154.80	1636
53.00	215	80.90	17280	123.80	294	156.90	814
55.00	1497	81.90	3643	124.90	160	157.80	240
56.00	6664	82.90	338	126.00	348	158.70	869
57.00	12930	87.00	14913	126.80	618	160.80	483
58.00	499	87.90	14457	127.80	1561	171.70	606
58.90	169	90.90	2104	129.00	957	173.90	326848
60.00	3831	92.00	12705	129.90	1730	174.90	26224
61.00	20368	93.00	19480	130.90	702	175.90	313984
62.00	19168	94.00	51432	133.50	168	176.90	21848
63.00	14703	95.00	399552	134.90	878	177.90	599
64.00	1327	96.00	30016	135.90	277	235.50	194
64.80	361	97.00	950	136.80	995		

Data File: \\NAHSTWS005\Target\chem\voa11.i\f240416.b\g041601.d Page 1

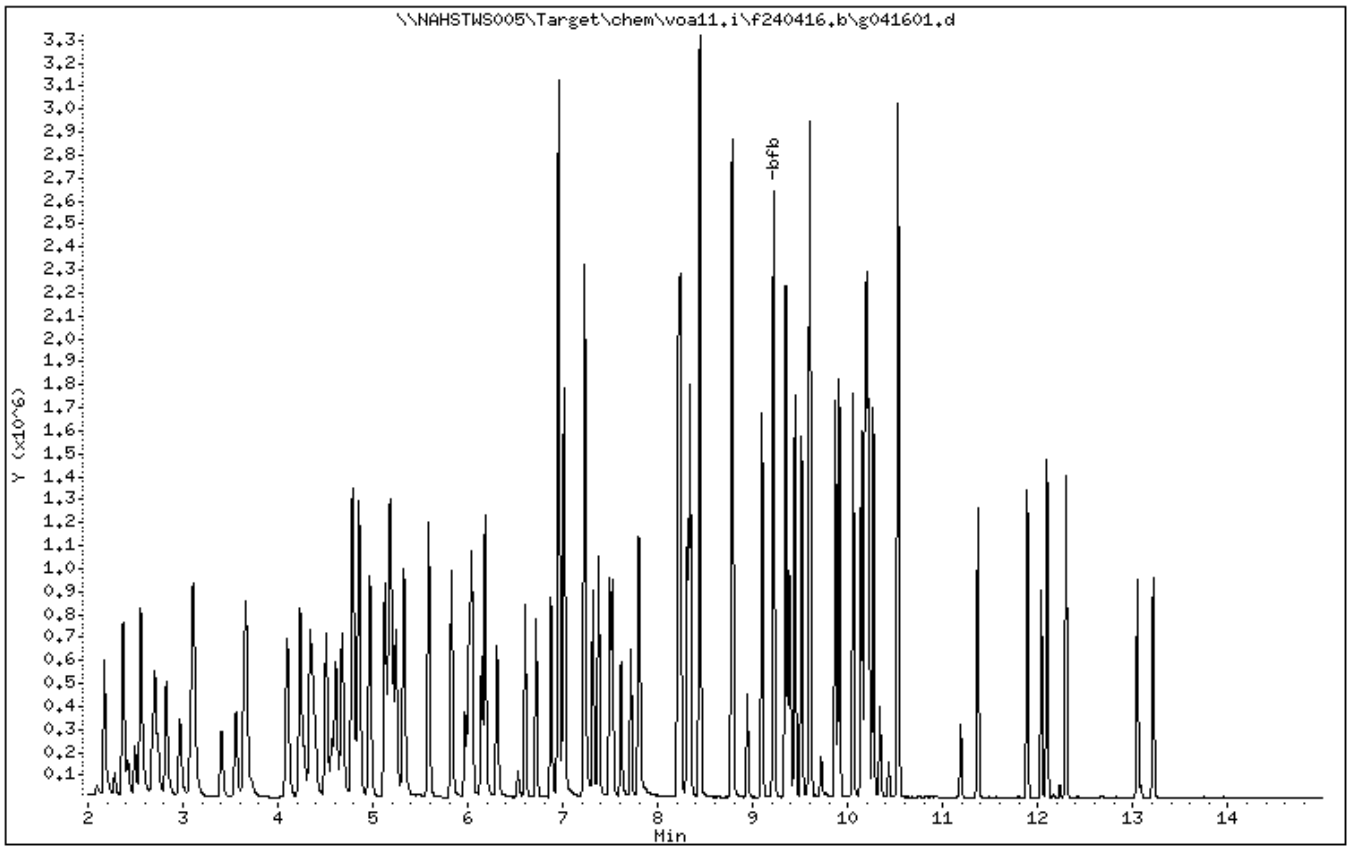
Date : 16-APR-2024 23:46

Client ID: BFB Instrument: voa11.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: FT

Column phase: DB624 Column diameter: 0.25



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LabSampID : BFB

 NO MANUAL INTEGRATIONS

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Report Date: 17-Apr-2024 09:04

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\G041602.D
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Inj Date : 17-APR-2024 00:08
Operator : FT Inst ID: voa11.i
Smp Info : VSTD050;VSTD050;2;;
Misc Info : V11;WATER;0;1;
Comment :
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Meth Date : 17-Apr-2024 09:03 apoluri Quant Type: ISTD
Cal Date : 16-APR-2024 11:58 Cal File: F041603.D
Als bottle: 34 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.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	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1 Pentafluorobenzene	168	4.860	4.860	(1.000)	560092	50.0000	(M)
2 Dichlorodifluoromethane	85	1.171	1.171	(0.241)	309578	50.0000	50.44
3 Chloromethane	50	1.306	1.306	(0.269)	470914	50.0000	43.56
4 Propionitrile	54	4.339	4.339	(0.893)	774291	500.000	546.52
5 Vinyl Chloride	62	1.389	1.389	(0.286)	300986	50.0000	50.40
6 Bromomethane	94	1.629	1.629	(0.335)	139660	50.0000	40.06(M)
7 Chloroethane	64	1.715	1.715	(0.353)	188105	50.0000	49.02
8 Trichlorofluoromethane	101	1.921	1.921	(0.395)	480000	50.0000	50.48
158 Dichlorofluoromethane	67	1.876	1.876	(0.386)	460880	50.0000	49.01
9 Acrolein	56	2.277	2.277	(0.469)	83091	100.000	155.07
10 Acetone	43	2.420	2.420	(0.498)	151381	100.000	96.10
11 1,1-Dichloroethene	96	2.364	2.364	(0.486)	223035	50.0000	47.08
12 Isobutyl Alcohol	43	5.243	5.243	(1.079)	92110	1000.00	1071.98
13 Acetonitrile	39	2.705	2.705	(0.557)	327470	500.000	486.98
14 Allyl Chloride	41	2.701	2.701	(0.556)	646226	50.0000	47.31
15 Iodomethane	142	2.495	2.495	(0.513)	290551	100.000	92.05
16 Acrylonitrile	53	3.076	3.076	(0.633)	200545	100.000	92.38
17 Methylene Chloride	84	2.821	2.821	(0.580)	274942	50.0000	44.74
18 Methyl tert-butyl ether	73	3.117	3.117	(0.641)	636406	50.0000	46.95
19 Carbon Disulfide	76	2.555	2.555	(0.526)	1377105	100.000	95.57

20	trans-1,2-Dichloroethene	96	3.098	3.098 (0.638)	255583	50.0000	49.15
21	Vinyl Acetate	43	3.642	3.642 (0.749)	961149	100.000	96.75

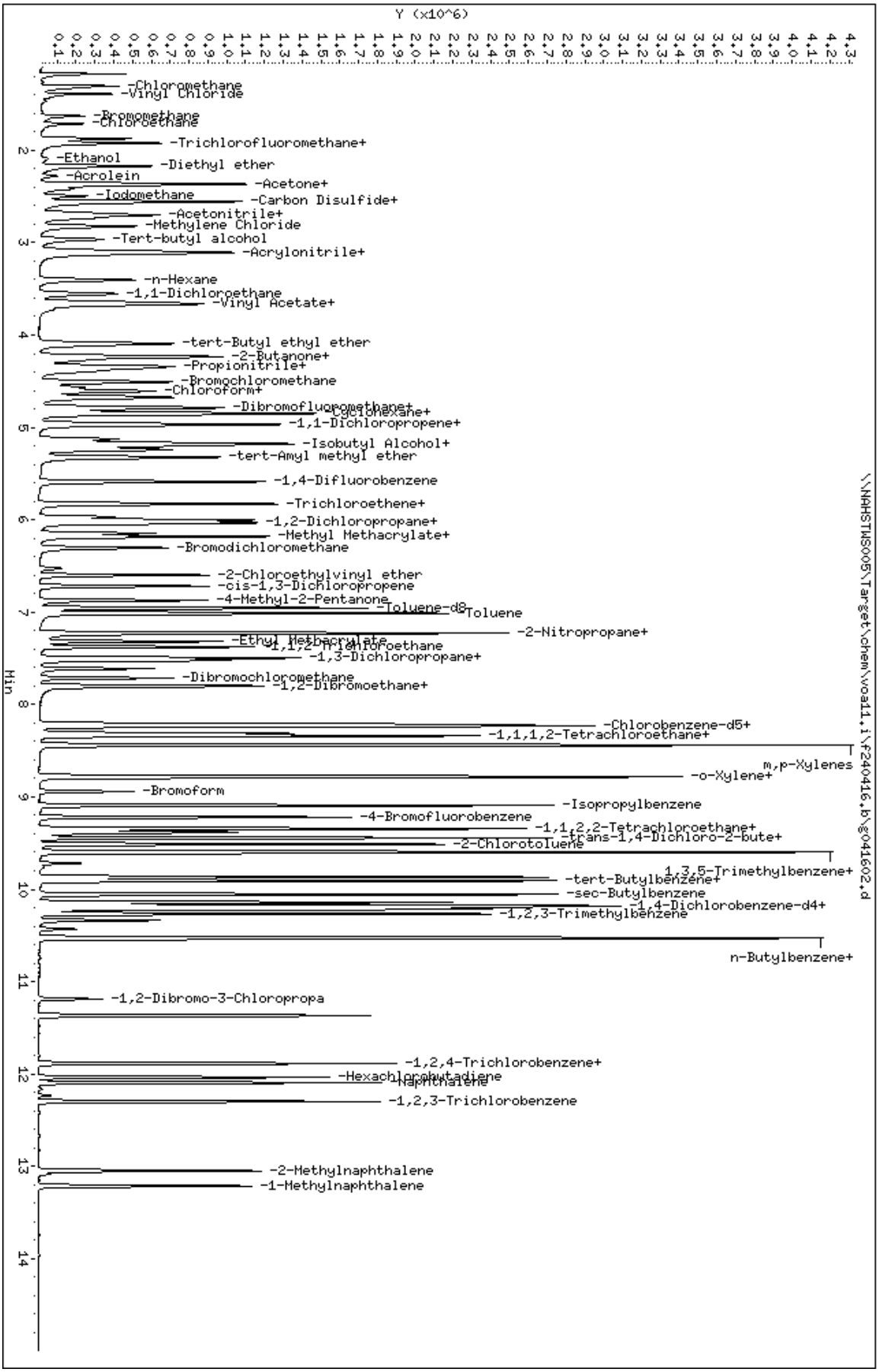
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.556	3.556	(0.732)	440027	50.0000	50.06
24	2-Butanone	43	4.279	4.279	(0.880)	207770	100.000	98.62
25	Methacrylonitrile	41	4.230	4.230	(0.870)	200219	50.0000	48.06
26	2,2-Dichloropropane	77	4.234	4.234	(0.871)	289097	50.0000	45.85
27	cis-1,2-Dichloroethene	96	4.234	4.234	(0.871)	293857	50.0000	52.84
28	Chloroform	83	4.609	4.609	(0.948)	491181	50.0000	48.40
29	Bromochloromethane	128	4.504	4.504	(0.927)	136064	50.0000	44.24
$ 30	Dibromofluoromethane	113	4.781	4.781	(0.984)	250255	50.0000	45.81
31	1,1,1-Trichloroethane	97	4.793	4.793	(0.986)	437789	50.0000	54.65
32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	350543	50.0000	51.02
33	1,2-Dichloroethane	62	5.205	5.205	(0.932)	426409	50.0000	47.03
34	Carbon Tetrachloride	117	4.965	4.965	(0.889)	375988	50.0000	51.79
$ 35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.055)	300252	50.0000	44.34
* 36	1,4-Difluorobenzene	114	5.587	5.587	(1.000)	870473	50.0000	
37	Benzene	78	5.179	5.179	(0.927)	1018590	50.0000	47.76
38	Trichloroethene	130	5.827	5.827	(1.043)	339507	50.0000	53.32
39	Bromodichloromethane	83	6.303	6.303	(1.128)	365231	50.0000	50.09
40	Methyl Methacrylate	41	6.180	6.180	(1.271)	449319	50.0000	48.35
41	2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	320643	100.000	89.62
42	1,2-Dichloropropane	63	6.041	6.041	(1.081)	269929	50.0000	49.31
43	2-Nitropropane	43	7.229	7.229	(1.487)	324438	50.0000	55.35
44	Dibromomethane	93	6.146	6.146	(1.100)	193952	50.0000	48.78
45	4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	472283	100.000	108.11
46	cis-1,3-Dichloropropene	75	6.720	6.720	(1.203)	417028	50.0000	45.64
* 47	Chlorobenzene-d5	117	8.212	8.212	(1.000)	843256	50.0000	
$ 48	Toluene-d8	98	6.956	6.956	(0.847)	948650	50.0000	47.51
49	Ethyl Methacrylate	69	7.316	7.316	(1.309)	403428	50.0000	52.39
50	Toluene	91	7.016	7.016	(0.854)	1153191	50.0000	46.45
51	trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	381875	50.0000	50.53
52	2-Hexanone	43	7.229	7.229	(0.880)	324438	100.000	102.81
53	1,1,2-Trichloroethane	83	7.376	7.376	(0.898)	235762	50.0000	48.95
54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	468972	50.0000	48.92
55	Dibromochloromethane	129	7.717	7.717	(0.940)	290578	50.0000	42.34
56	Tetrachloroethene	164	7.492	7.492	(0.912)	267035	50.0000	47.19
57	1,2-Dibromoethane	107	7.807	7.807	(0.951)	289752	50.0000	44.57
58	1-Chlorohexane	55	8.227	8.227	(1.472)	244354	50.0000	46.29
59	Chlorobenzene	112	8.238	8.238	(1.003)	829560	50.0000	46.16
60	1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	294065	50.0000	51.92
61	Ethylbenzene	106	8.339	8.339	(1.016)	412530	50.0000	52.10
62	m,p-Xylenes	106	8.440	8.440	(1.028)	1024207	100.000	94.68
63	o-Xylene	106	8.778	8.778	(1.069)	500231	50.0000	47.39
64	Styrene	104	8.789	8.789	(1.070)	856783	50.0000	47.59
66	Bromoform	173	8.943	8.943	(1.089)	178375	50.0000	51.46
67	Isopropylbenzene	105	9.092	9.092	(1.107)	1430537	50.0000	53.09
68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	417880	50.0000	49.89
$ 69	4-Bromofluorobenzene	95	9.220	9.220	(1.123)	434802	50.0000	54.79
* 70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	500013	50.0000	
71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	394713	50.0000	52.72
72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	73749	50.0000	49.73
73	n-Propylbenzene	91	9.441	9.441	(0.926)	1656364	50.0000	49.33
74	Bromobenzene	156	9.344	9.344	(0.916)	395542	50.0000	47.31
75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	1246650	50.0000	47.52

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	1007519	50.0000	48.64
77	4-Chlorotoluene	91	9.602	9.602 (0.942)	1193587	50.0000	47.65

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.868	9.868	(0.968)	1077935	50.0000	48.10
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	1230555	50.0000	48.10
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	1519952	50.0000	48.50
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	1330279	50.0000	47.33
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	736907	50.0000	52.39
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	740899	50.0000	46.03
87	n-Butylbenzene	91	10.524	10.524	(1.032)	1103956	50.0000	46.36
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	726057	50.0000	50.48
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.188	(1.097)	57435	50.0000	53.83
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	482924	50.0000	54.33
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	233433	50.0000	48.65
92	Naphthalene	128	12.095	12.095	(1.186)	1159735	50.0000	55.12
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	456020	50.0000	52.69
146	Methyl acetate	43	2.735	2.735	(0.563)	268494	50.0000	48.54
138	Freon TF	101	2.371	2.371	(0.488)	261175	50.0000	45.77
139	Diethyl ether	59	2.169	2.169	(0.446)	351540	50.0000	53.03
141	Cyclohexane	56	4.841	4.841	(0.996)	383779	50.0000	49.92
147	Methylcyclohexane	55	6.004	6.004	(1.074)	336251	50.0000	50.67
132	n-Butanol	56	5.820	5.820	(1.197)	105912	1000.00	1247.35
131	Methyl Acrylate	55	4.395	4.395	(0.904)	248357	50.0000	47.65
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	323372	50.0000	48.19
135	1,4-Dioxane	88	6.183	6.183	(1.272)	63449	1000.00	1087.29(A)
136	n-Hexane	57	3.402	3.402	(0.700)	260693	50.0000	45.57
142	Tetrahydrofuran	42	4.572	4.572	(0.941)	150216	100.000	109.56
148	Tert-butyl alcohol	59	2.963	2.963	(0.610)	328476	1000.00	1142.39
149	Isopropyl alcohol	45	2.566	2.566	(0.528)	247001	1000.00	1098.16
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	886475	1000.00	1159.25
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	1116930	50.0000	47.65
167	Ethanol	45	2.094	2.094	(0.431)	52987	1000.00	1128.03
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	482924	50.0000	54.33
172	tert-Butyl formate	59	5.243	5.243	(1.079)	223711	100.000	120.82
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	396542	1000.00	1082.03
174	tert-Amyl methyl ether	73	5.321	5.321	(1.095)	622717	50.0000	50.47
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	651565	50.0000	48.96
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	448065	50.0000	60.46
156	Diisopropyl ether	45	3.664	3.664	(0.754)	769523	50.0000	49.29
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	461045	50.0000	61.51
130	Ethyl Acetate	43	4.365	4.365	(0.898)	502626	50.0000	50.66
176	tert-Amyl alcohol	59	5.243	5.243	(1.079)	223711	1000.00	1213.42(A)
M 94	1,2-Dichloroethylene (total)	96				549440	100.000	102.00
M 95	Xylenes (total)	106				1524438	150.000	142.08

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



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Sample Info: VSTD050;VSTD050;2;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

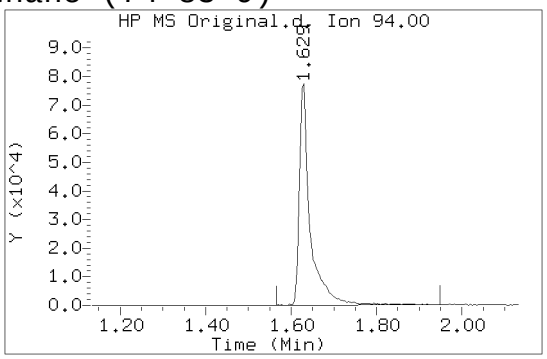
Data File : \\nahstws005\target\chem\voa11.i\f240416.b\g041602.d
Inj Date : 17-APR-2024 00:08
InstruID : voa11.i
LabSampID : VSTD050

Bromomethane (74-83-9)

Reason Code:

BEFORE

MASS
94
AREA
139660
HEIGHT
77470
17-Apr-2024
09:04



AFTER

MASS
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HEIGHT
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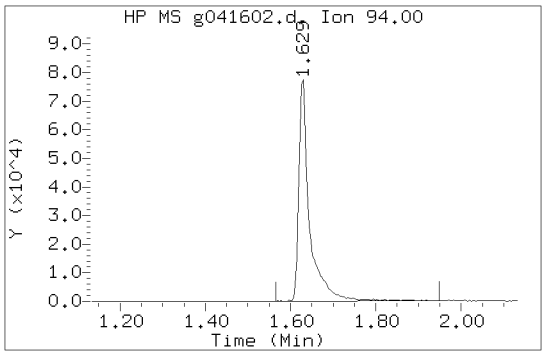
17-Apr-2024
09:04



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MASS
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17-Apr-2024
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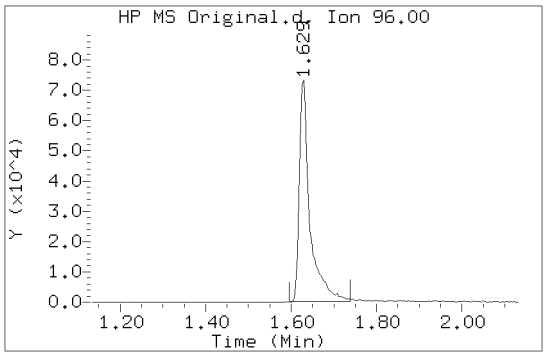

AFTER

MASS
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AREA
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HEIGHT
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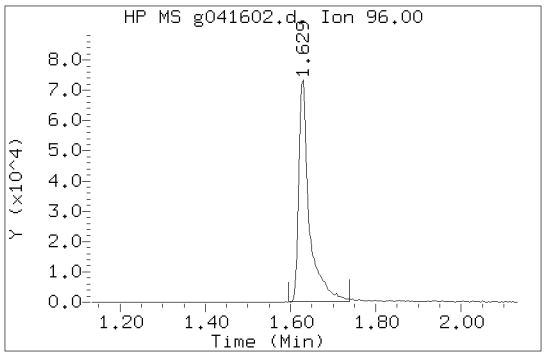
17-Apr-2024
09:04



Pentafluorobenzene ()

Reason Code:

BEFORE

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AREA
560092
HEIGHT
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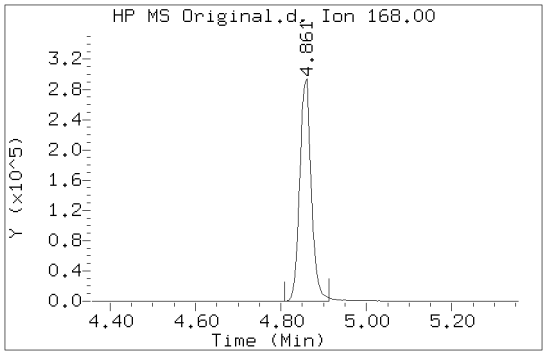
17-Apr-2024
09:04



AFTER

MASS
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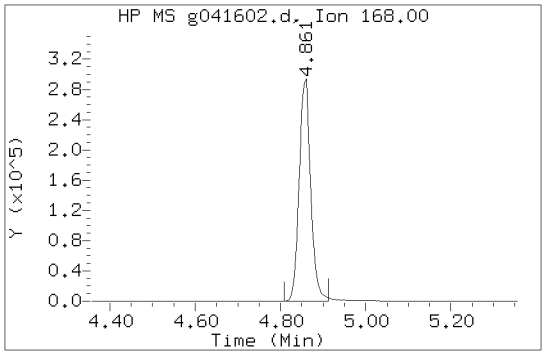
17-Apr-2024
09:04



Data File: \\nahstws005\Target\chem\voa11.i\F240416.b\G041603.D Page 1
Report Date: 17-Apr-2024 01:10

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa11.i\F240416.b\G041603.D
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Inj Date : 17-APR-2024 00:52
Operator : FT Inst ID: voa11.i
Smp Info : VLCSW-240416;VLCSW-240416;3;;LCS
Misc Info : V11;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 17-Apr-2024 00:50 apoluri Quant Type: ISTD
Cal Date : 16-APR-2024 11:58 Cal File: F041603.D
Als bottle: 35 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.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	4.853	4.857	(1.000)	597237	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.172	(0.241)	123605	18.8870	18.88
3 Chloromethane	50	1.306	1.307	(0.269)	183606	15.9275	15.92
4 Propionitrile	54	4.339	4.339	(0.894)	335768	222.258	222.25
5 Vinyl Chloride	62	1.389	1.389	(0.286)	117372	18.4324	18.43
6 Bromomethane	94	1.629	1.629	(0.336)	63982	16.0426	16.04
7 Chloroethane	64	1.715	1.711	(0.353)	73256	17.9040	17.90
8 Trichlorofluoromethane	101	1.917	1.921	(0.395)	186798	18.4251	18.42
158 Dichlorofluoromethane	67	1.876	1.876	(0.387)	184357	18.3878	18.38
9 Acrolein	56	2.281	2.281	(0.470)	30683	59.1889	59.18
10 Acetone	43	2.423	2.420	(0.499)	63816	40.2795	40.27
11 1,1-Dichloroethene	96	2.363	2.364	(0.487)	87943	17.4104	17.41
12 Isobutyl Alcohol	43	5.242	5.239	(1.080)	39700	442.966	442.96
13 Acetonitrile	39	2.705	2.701	(0.557)	128673	186.436	186.43
14 Allyl Chloride	41	2.701	2.701	(0.557)	260479	19.2720	19.27
15 Iodomethane	142	2.495	2.495	(0.514)	108097	40.1175	40.11
16 Acrylonitrile	53	3.076	3.076	(0.634)	85596	39.4602	39.46
17 Methylene Chloride	84	2.821	2.825	(0.581)	117109	17.7100	17.70
18 Methyl tert-butyl ether	73	3.113	3.113	(0.642)	268233	20.5857	20.58
19 Carbon Disulfide	76	2.555	2.555	(0.526)	542338	35.2992	35.29

20 trans-1,2-Dichloroethene	96	3.102	3.098 (0.639)	111780	20.1630	20.16
21 Vinyl Acetate	43	3.646	3.642 (0.751)	362156	36.8879	36.88

Data File: \\nahstws005\Target\chem\voa11.i\F240416.b\G041603.D Page 2
Report Date: 17-Apr-2024 01:10

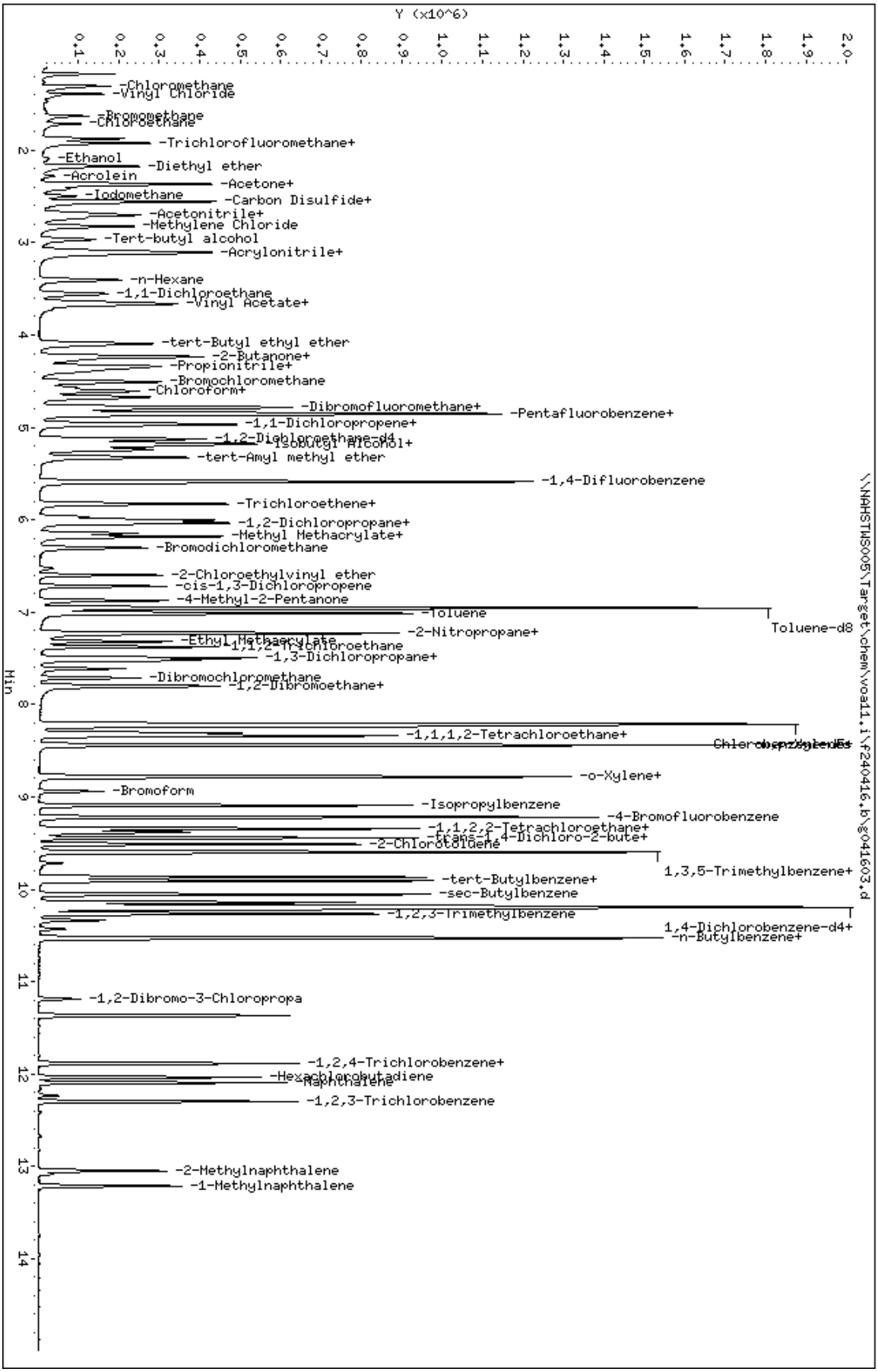
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	22 1,1-Dichloroethane	63	3.556	3.552	(0.733)	181491	19.3644	19.36
	24 2-Butanone	43	4.279	4.275	(0.882)	86179	41.8432	41.84
	25 Methacrylonitrile	41	4.230	4.227	(0.872)	82910	18.6668	18.66
	26 2,2-Dichloropropane	77	4.234	4.234	(0.873)	113999	18.9663	18.96
	27 cis-1,2-Dichloroethene	96	4.234	4.234	(0.873)	126905	21.4023	21.40
	28 Chloroform	83	4.609	4.609	(0.950)	198186	18.3176	18.31
	29 Bromochloromethane	128	4.500	4.504	(0.927)	60718	18.5146	18.51
$	30 Dibromofluoromethane	113	4.781	4.778	(0.985)	254547	43.7163	43.71
	31 1,1,1-Trichloroethane	97	4.789	4.793	(0.987)	172422	20.1856	20.18
	32 1,1-Dichloropropene	75	4.969	4.969	(0.889)	136804	19.3847	19.38
	33 1,2-Dichloroethane	62	5.205	5.205	(0.932)	179453	19.2729	19.27
	34 Carbon Tetrachloride	117	4.965	4.965	(0.889)	140250	18.8103	18.81
$	35 1,2-Dichloroethane-d4	65	5.123	5.126	(1.056)	296597	41.0885	41.08
*	36 1,4-Difluorobenzene	114	5.587	5.588	(1.000)	894123	50.0000	
	37 Benzene	78	5.179	5.179	(0.927)	408195	18.6371	18.63
	38 Trichloroethene	130	5.827	5.827	(1.043)	125500	19.1897	19.18
	39 Bromodichloromethane	83	6.303	6.304	(1.128)	142627	19.0467	19.04
	40 Methyl Methacrylate	41	6.180	6.180	(1.273)	171186	19.2610	19.26
	41 2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	104666	32.6278	32.62
	42 1,2-Dichloropropane	63	6.037	6.041	(1.081)	106862	19.0053	19.00
	43 2-Nitropropane	43	7.229	7.229	(1.490)	138899	22.2232	22.22
	44 Dibromomethane	93	6.146	6.146	(1.100)	76130	18.6421	18.64
	45 4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	183028	46.1492	46.14
	46 cis-1,3-Dichloropropene	75	6.719	6.720	(1.203)	142276	17.0603	17.06
*	47 Chlorobenzene-d5	117	8.211	8.212	(1.000)	807032	50.0000	
$	48 Toluene-d8	98	6.956	6.956	(0.847)	1000217	52.2619	52.26
	49 Ethyl Methacrylate	69	7.319	7.316	(1.310)	137478	18.9475	18.94
	50 Toluene	91	7.012	7.012	(0.854)	480602	20.6359	20.63
	51 trans-1,3-Dichloropropene	75	7.222	7.218	(1.292)	131070	18.5711	18.57
	52 2-Hexanone	43	7.229	7.229	(0.880)	138899	45.9928	45.99
	53 1,1,2-Trichloroethane	83	7.375	7.376	(0.898)	89001	19.3093	19.30
	54 1,3-Dichloropropane	76	7.522	7.522	(0.916)	180589	19.6869	19.68
	55 Dibromochloromethane	129	7.713	7.713	(0.939)	100744	17.2845	17.28
	56 Tetrachloroethene	164	7.492	7.496	(0.912)	100353	18.5317	18.53
	57 1,2-Dibromoethane	107	7.807	7.807	(0.951)	114699	19.1756	19.17
	58 1-Chlorohexane	55	8.230	8.230	(1.473)	98842	18.0730	18.07
	59 Chlorobenzene	112	8.238	8.238	(1.003)	331402	19.2708	19.27
	60 1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	105630	19.4902	19.49
	61 Ethylbenzene	106	8.339	8.339	(1.016)	159703	21.0749	21.07
	62 m,p-Xylenes	106	8.440	8.440	(1.028)	408881	39.6685	39.66
	63 o-Xylene	106	8.778	8.778	(1.069)	188469	19.4086	19.40
	64 Styrene	104	8.789	8.789	(1.070)	322619	19.3470	19.34
	66 Bromoform	173	8.939	8.939	(1.089)	55993	17.9468	17.94
	67 Isopropylbenzene	105	9.092	9.093	(1.107)	483816	19.5342	19.53
	68 1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	142354	19.9088	19.90
$	69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	357209	47.0558	47.05
*	70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	426888	50.0000	
	71 1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	132550	20.7368	20.73
	72 trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	23702	17.7591	17.75
	73 n-Propylbenzene	91	9.441	9.445	(0.926)	580121	21.0615	21.06
	74 Bromobenzene	156	9.344	9.344	(0.916)	139418	20.6231	20.62
	75 1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	435151	20.3173	20.31

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	361074	21.1790	21.17
77	4-Chlorotoluene	91	9.602	9.602 (0.942)	432982	20.7511	20.75

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.868	9.869	(0.968)	368635	20.5249	20.52
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	428408	20.6257	20.62
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	521888	20.6802	20.68
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	457155	20.2057	20.20
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	260143	21.6655	21.66
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	273593	19.9122	19.91
87	n-Butylbenzene	91	10.524	10.525	(1.032)	379467	19.9868	19.98
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	263795	21.4833	21.48
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.188	(1.097)	17145	20.3436	20.34
90	1,2,4-Trichlorobenzene	180	11.885	11.889	(1.165)	164028	22.4404	22.44
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	83316	20.3387	20.33
92	Naphthalene	128	12.095	12.095	(1.186)	372441	21.7688	21.76
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	160970	21.8793	21.87
146	Methyl acetate	43	2.735	2.735	(0.564)	110150	18.6769	18.67
138	Freon TF	101	2.371	2.371	(0.489)	103122	16.9501	16.95
139	Diethyl ether	59	2.169	2.172	(0.447)	139039	19.6732	19.67
141	Cyclohexane	56	4.845	4.845	(0.998)	164187	19.7391	19.73
147	Methylcyclohexane	55	6.003	6.004	(1.074)	131075	19.0675	19.06
132	n-Butanol	56	5.820	5.820	(1.199)	34342	424.317	424.31
131	Methyl Acrylate	55	4.392	4.392	(0.905)	104911	20.3108	20.31
133	Ethyl Acrylate	55	5.970	5.966	(1.230)	105122	17.8108	17.81
135	1,4-Dioxane	88	6.191	6.187	(1.276)	26617	446.821	446.82(A)
136	n-Hexane	57	3.402	3.402	(0.701)	106281	18.3037	18.30
142	Tetrahydrofuran	42	4.571	4.568	(0.942)	56042	40.9887	40.98
148	Tert-butyl alcohol	59	2.967	2.963	(0.611)	125103	444.970	444.97
149	Isopropyl alcohol	45	2.570	2.566	(0.530)	96174	432.188	432.18
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	308471	430.117	430.11
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	393855	20.5962	20.59
167	Ethanol	45	2.090	2.094	(0.431)	22726	450.626	450.62
170	1,3,5-Trichlorobenzene	180	11.885	11.889	(1.165)	164028	22.4404	22.44
172	tert-Butyl formate	59	5.242	5.239	(1.080)	83233	45.8555	45.85
173	3,3-Dimethyl-1-butanol	57	7.795	7.796	(0.949)	148763	440.859	440.85
174	tert-Amyl methyl ether	73	5.325	5.325	(1.097)	228211	19.9881	19.98
175	tert-Butyl ethyl ether	59	4.095	4.092	(0.844)	251553	19.9049	19.90
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	122612	22.6214	22.62
156	Diisopropyl ether	45	3.664	3.661	(0.755)	304804	19.1147	19.11
180	1-Methylnaphthalene	142	13.216	13.212	(1.296)	143480	24.9806	24.98
130	Ethyl Acetate	43	4.369	4.365	(0.900)	200781	20.6602	20.66
176	tert-Amyl alcohol	59	5.242	5.239	(1.080)	83233	460.908	460.90(A)
M 94	1,2-Dichloroethylene (total)	96				238685	41.5652	41.56
M 95	Xylenes (total)	106				597350	59.0771	59.07

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



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Sample Info: VLCSW-240416;VLCSW-240416;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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Inj Date : 17-APR-2024 00:52
InstruID : voa11.i
LabSampID : VLCSW-240416

 NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa11.i\F240416.b\G041604.D Page 1
Report Date: 17-Apr-2024 01:32

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Data file : \\nahstws005\Target\chem\voa11.i\F240416.b\G041604.D
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Inj Date : 17-APR-2024 01:14
Operator : FT Inst ID: voa11.i
Smp Info : VLCSDW-240416;VLCSDW-240416;3;;LCSD
Misc Info : V11;WATER;0;1;
Comment   :
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Meth Date : 17-Apr-2024 00:50 apoluri Quant Type: ISTD
Cal Date : 16-APR-2024 11:58 Cal File: F041603.D
Als bottle: 35 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.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	4.853	4.857	(1.000)	601786	50.0000	
2 Dichlorodifluoromethane	85	1.172	1.172	(0.241)	112067	16.9946	16.99
3 Chloromethane	50	1.306	1.307	(0.269)	174385	15.0133	15.01
4 Propionitrile	54	4.335	4.339	(0.893)	334869	219.987	219.98
5 Vinyl Chloride	62	1.389	1.389	(0.286)	109977	17.1405	17.14
6 Bromomethane	94	1.629	1.629	(0.336)	63559	15.8031	15.80
7 Chloroethane	64	1.715	1.711	(0.353)	72203	17.5133	17.51
8 Trichlorofluoromethane	101	1.921	1.921	(0.396)	175826	17.2118	17.21
158 Dichlorofluoromethane	67	1.876	1.876	(0.387)	175766	17.3984	17.39
9 Acrolein	56	2.281	2.281	(0.470)	31214	59.7106	59.71
10 Acetone	43	2.424	2.420	(0.499)	65783	41.1201	41.12
11 1,1-Dichloroethene	96	2.364	2.364	(0.487)	88645	17.4168	17.41
12 Isobutyl Alcohol	43	5.239	5.239	(1.080)	41677	461.620	461.61
13 Acetonitrile	39	2.705	2.701	(0.557)	125340	180.602	180.60
14 Allyl Chloride	41	2.701	2.701	(0.557)	254595	18.7611	18.76
15 Iodomethane	142	2.495	2.495	(0.514)	103447	38.7189	38.71
16 Acrylonitrile	53	3.080	3.076	(0.635)	78275	36.1949	36.19
17 Methylene Chloride	84	2.825	2.825	(0.582)	109684	16.4427	16.44
18 Methyl tert-butyl ether	73	3.117	3.113	(0.642)	246314	19.0579	19.05
19 Carbon Disulfide	76	2.555	2.555	(0.527)	516202	33.3441	33.34

20 trans-1,2-Dichloroethene	96	3.098	3.098 (0.639)	97857	17.5181	17.51
21 Vinyl Acetate	43	3.642	3.642 (0.751)	364711	36.8697	36.86

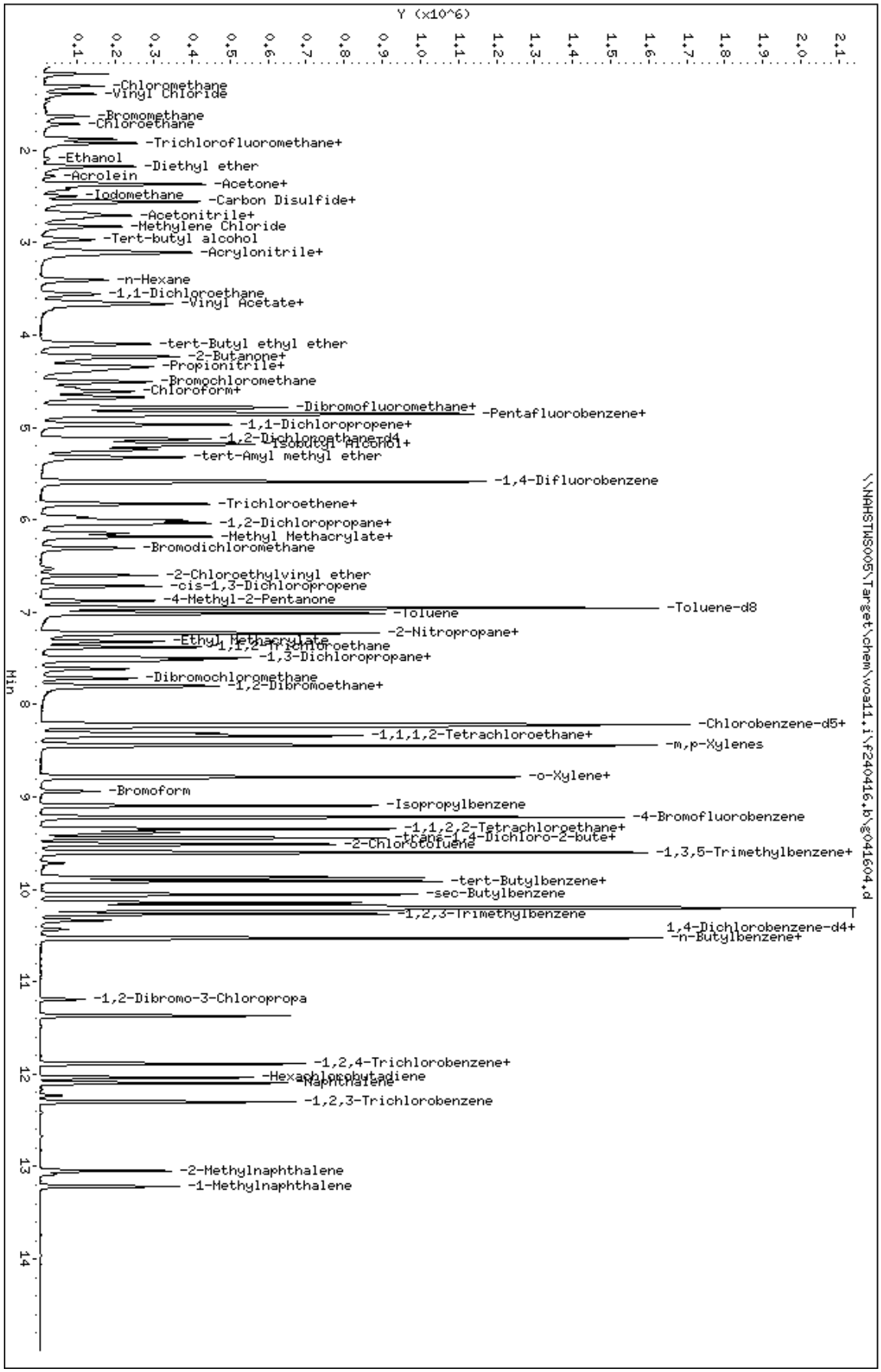
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.556	3.552	(0.733)	168958	17.8909	17.89
24	2-Butanone	43	4.279	4.275	(0.882)	83199	40.3295	40.32
25	Methacrylonitrile	41	4.230	4.227	(0.872)	75792	16.9353	16.93
26	2,2-Dichloropropane	77	4.230	4.234	(0.872)	102812	17.3105	17.31
27	cis-1,2-Dichloroethene	96	4.234	4.234	(0.873)	111087	18.5930	18.59
28	Chloroform	83	4.609	4.609	(0.950)	193457	17.7454	17.74
29	Bromochloromethane	128	4.504	4.504	(0.928)	57725	17.4689	17.46
$ 30	Dibromofluoromethane	113	4.778	4.778	(0.985)	259749	44.2684	44.26
31	1,1,1-Trichloroethane	97	4.793	4.793	(0.988)	174587	20.2845	20.28
32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	138123	20.2078	20.20
33	1,2-Dichloroethane	62	5.201	5.205	(0.931)	180264	19.9893	19.98
34	Carbon Tetrachloride	117	4.961	4.965	(0.888)	138285	19.1496	19.14
$ 35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	311890	42.8754	42.87
* 36	1,4-Difluorobenzene	114	5.587	5.588	(1.000)	865973	50.0000	
37	Benzene	78	5.179	5.179	(0.927)	416517	19.6353	19.63
38	Trichloroethene	130	5.827	5.827	(1.043)	116235	18.3508	18.35
39	Bromodichloromethane	83	6.307	6.304	(1.129)	129887	17.9092	17.90
40	Methyl Methacrylate	41	6.184	6.180	(1.274)	165321	18.5888	18.58
41	2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	108876	34.5936	34.59
42	1,2-Dichloropropane	63	6.037	6.041	(1.081)	99061	18.1906	18.19
43	2-Nitropropane	43	7.229	7.229	(1.490)	135946	21.5863	21.58
44	Dibromomethane	93	6.142	6.146	(1.099)	73925	18.6906	18.69
45	4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	168918	46.5326	46.53
46	cis-1,3-Dichloropropene	75	6.720	6.720	(1.203)	137501	17.0298	17.02
* 47	Chlorobenzene-d5	117	8.212	8.212	(1.000)	738334	50.0000	
$ 48	Toluene-d8	98	6.956	6.956	(0.847)	897015	51.2485	51.24
49	Ethyl Methacrylate	69	7.319	7.316	(1.310)	139650	19.7843	19.78
50	Toluene	91	7.012	7.012	(0.854)	455096	21.3338	21.33
51	trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	123837	18.1659	18.16
52	2-Hexanone	43	7.229	7.229	(0.880)	135946	49.2034	49.20
53	1,1,2-Trichloroethane	83	7.376	7.376	(0.898)	88749	21.0461	21.04
54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	194409	23.1655	23.16
55	Dibromochloromethane	129	7.713	7.713	(0.939)	107672	19.6792	19.67
56	Tetrachloroethene	164	7.496	7.496	(0.913)	104484	21.0898	21.08
57	1,2-Dibromoethane	107	7.807	7.807	(0.951)	120857	21.8940	21.89
58	1-Chlorohexane	55	8.227	8.230	(1.472)	91959	17.3507	17.35
59	Chlorobenzene	112	8.238	8.238	(1.003)	305753	19.4336	19.43
60	1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	102002	20.5719	20.57
61	Ethylbenzene	106	8.335	8.339	(1.015)	152026	21.9284	21.92
62	m,p-Xylenes	106	8.440	8.440	(1.028)	370214	39.2620	39.26
63	o-Xylene	106	8.778	8.778	(1.069)	178536	20.0527	20.05
64	Styrene	104	8.789	8.789	(1.070)	305677	20.0001	20.00
66	Bromoform	173	8.943	8.939	(1.089)	56066	19.5507	19.55
67	Isopropylbenzene	105	9.093	9.093	(1.107)	456968	20.1283	20.12
68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	144140	19.1553	19.15
$ 69	4-Bromofluorobenzene	95	9.220	9.220	(1.123)	378212	54.4336	54.43
* 70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	449247	50.0000	
71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	134662	20.0187	20.01
72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	23596	19.2352	19.23
73	n-Propylbenzene	91	9.441	9.445	(0.926)	559402	19.4153	19.41
74	Bromobenzene	156	9.344	9.344	(0.916)	136001	19.2517	19.25
75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	441460	19.6400	19.64

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	346711	19.4389	19.43
77	4-Chlorotoluene	91	9.602	9.602 (0.942)	452135	20.5973	20.59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.869	9.869	(0.968)	396513	20.9320	20.93
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	457761	20.9158	20.91
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	549783	20.6993	20.69
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	491009	20.5822	20.58
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	283170	22.4095	22.40
84	1,4-Dichlorobenzene	146	10.221	10.217	(1.002)	290592	20.0968	20.09
87	n-Butylbenzene	91	10.525	10.525	(1.032)	395007	19.7938	19.79
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	285288	22.0773	22.07
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.188	(1.097)	19565	21.9338	21.93
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	175794	22.8428	22.84
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	85643	19.8662	19.86
92	Naphthalene	128	12.095	12.095	(1.186)	408927	22.6399	22.63
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	171989	22.2112	22.21
146	Methyl acetate	43	2.735	2.735	(0.564)	106875	17.9847	17.98
138	Freon TF	101	2.371	2.371	(0.489)	100305	16.3624	16.36
139	Diethyl ether	59	2.172	2.172	(0.448)	143006	20.0816	20.08
141	Cyclohexane	56	4.845	4.845	(0.998)	157284	18.7424	18.74
147	Methylcyclohexane	55	6.004	6.004	(1.074)	116656	17.5003	17.50
132	n-Butanol	56	5.820	5.820	(1.199)	35165	430.522	430.52
131	Methyl Acrylate	55	4.395	4.392	(0.906)	100732	19.4659	19.46
133	Ethyl Acrylate	55	5.970	5.966	(1.230)	102120	17.3323	17.33
135	1,4-Dioxane	88	6.187	6.187	(1.275)	24700	412.925	412.92(A)
136	n-Hexane	57	3.402	3.402	(0.701)	91446	15.8376	15.83
142	Tetrahydrofuran	42	4.568	4.568	(0.941)	59422	42.9819	42.98
148	Tert-butyl alcohol	59	2.967	2.963	(0.611)	126008	444.815	444.81
149	Isopropyl alcohol	45	2.562	2.566	(0.528)	96411	430.140	430.13
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	301386	433.582	433.58
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	427003	21.1713	21.17
167	Ethanol	45	2.090	2.094	(0.431)	22371	439.727	439.72
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	175794	22.8428	22.84
172	tert-Butyl formate	59	5.239	5.239	(1.080)	90285	49.1021	49.10
173	3,3-Dimethyl-1-butanol	57	7.795	7.796	(0.949)	162014	522.790	522.79
174	tert-Amyl methyl ether	73	5.321	5.325	(1.097)	236388	20.4350	20.43
175	tert-Butyl ethyl ether	59	4.096	4.092	(0.844)	248667	19.5925	19.59
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	129823	22.7371	22.73
156	Diisopropyl ether	45	3.664	3.661	(0.755)	299670	18.6817	18.68
180	1-Methylnaphthalene	142	13.216	13.212	(1.296)	149337	24.7371	24.73
130	Ethyl Acetate	43	4.365	4.365	(0.900)	207355	21.1083	21.10
176	tert-Amyl alcohol	59	5.239	5.239	(1.080)	90285	493.507	493.50(A)
M 94	1,2-Dichloroethylene (total)	96				208944	36.1111	36.11
M 95	Xylenes (total)	106				548750	59.3147	59.31

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



Data File: \\NAHSTWS005\Target\chem\voa11.i\f240416.b\g041604.d
Date : 17-APR-2024 01:14
Client ID: VLCSDW-240416
Sample Info: VLCSDW-240416;VLCSDW-240416;3;;LCSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa11.i
Operator: FT
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa11.i\f240416.b\g041604.d
Inj Date : 17-APR-2024 01:14
InstruID : voa11.i
LabSampID : VLCSDW-240416

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\G041606.D Page 1
Report Date: 17-Apr-2024 09:37

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\G041606.D
Lab Smp Id: VBLKW-240416 Client Smp ID: VBLKW-240416
Inj Date : 17-APR-2024 01:59
Operator : FT Inst ID: voa11.i
Smp Info : VBLKW-240416;VBLKW-240416;3;;BLANK
Misc Info : V11;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 17-Apr-2024 09:03 apoluri Quant Type: ISTD
Cal Date : 16-APR-2024 11:58 Cal File: F041603.D
Als bottle: 37 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.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	4.856	4.860	(1.000)	564738	50.0000		
$ 30 Dibromofluoromethane	113	4.781	4.781	(0.985)	253580	46.0390	46.03	
$ 35 1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	298811	43.7698	43.76	
* 36 1,4-Difluorobenzene	114	5.587	5.587	(1.000)	867510	50.0000		
* 47 Chlorobenzene-d5	117	8.212	8.212	(1.000)	805962	50.0000		(M)
$ 48 Toluene-d8	98	6.956	6.956	(0.847)	850895	44.6220	44.62	
$ 69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	368769	48.6378	48.63	
* 70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	425007	50.0000		

QC Flag Legend

M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa11.i\f240416.b\g041606.d

Date : 17-APR-2024 01:59

Client ID: VBLKW-240416

Instrument: voa11.i

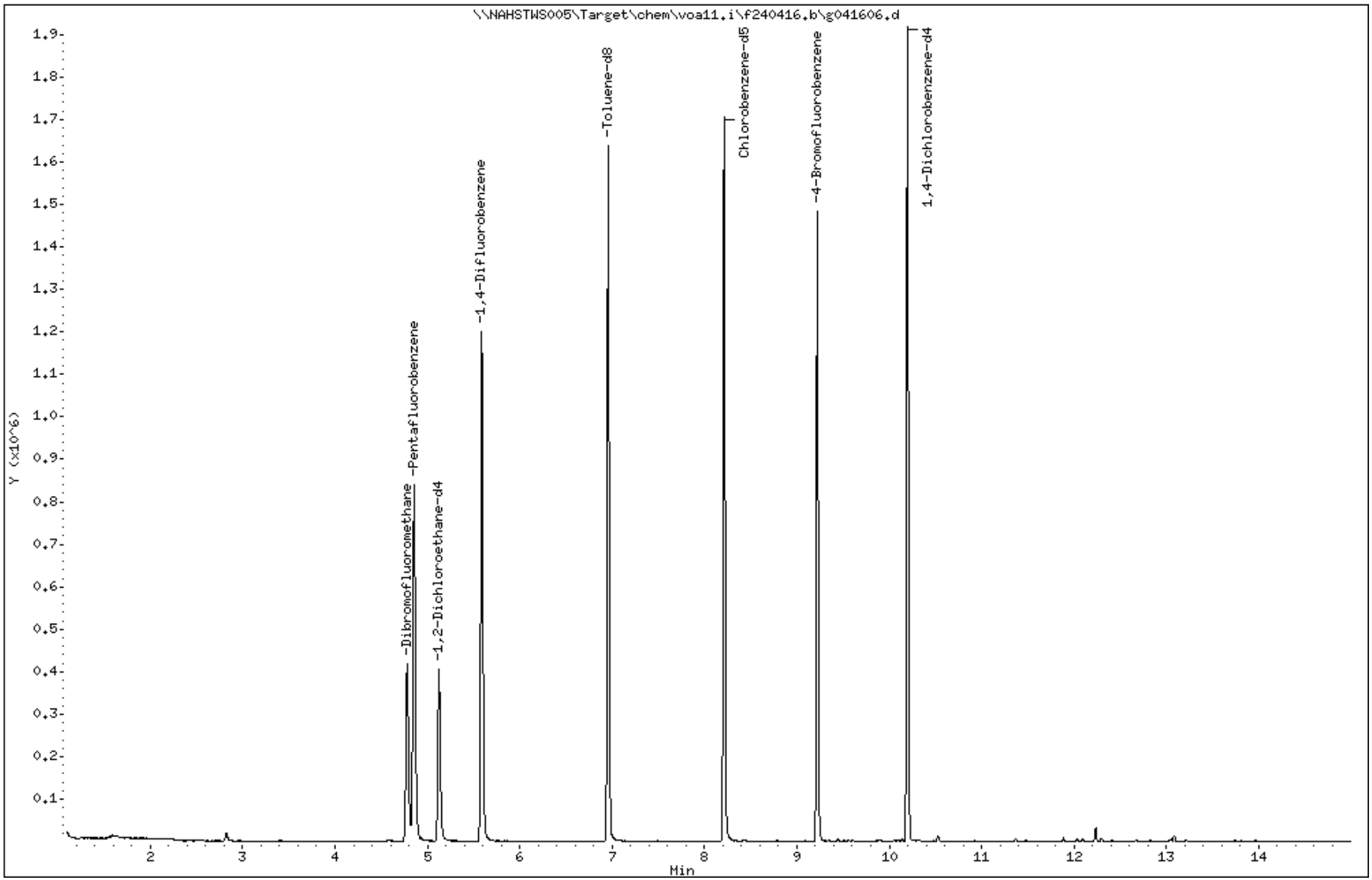
Sample Info: VBLKW-240416;VBLKW-240416;3;;BLANK

Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18



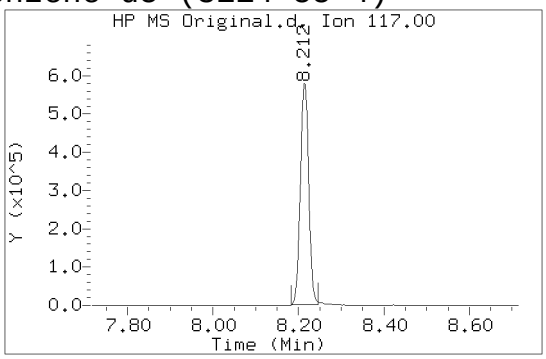
Data File : \\nahstws005\target\chem\voa11.i\f240416.b\g041606.d
Inj Date : 17-APR-2024 01:59
InstruID : voa11.i
LabSampID : VBLKW-240416

Chlorobenzene-d5 (3114-55-4)

Reason Code:

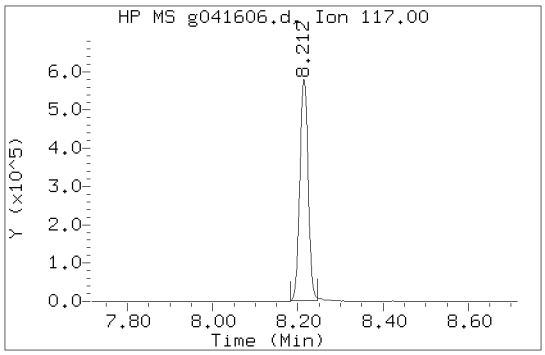
BEFORE

MASS
117
AREA
805962
HEIGHT
577979
17-Apr-2024
09:37



AFTER

MASS
117
AREA
805962
HEIGHT
577979
17-Apr-2024
09:37



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\G041607.D Page 1
Report Date: 22-May-2024 10:51

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\G041607.D
Lab Smp Id: HS24040786-03
Inj Date : 17-APR-2024 02:21
Operator : FT   Inst ID: voa11.i
Smp Info : HS24040786-03
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 22-May-2024 10:43 s.zaid   Quant Type: ISTD
Cal Date : 16-APR-2024 14:11   Cal File: F041609.D
Als bottle: 38
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 00000_8260-LLw.sub
Target Version: 4.14
Processing Host: NAHSTW7014

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	4.857	4.856	(1.000)	560340	50.0000	
8 Trichlorofluoromethane	101	1.921	1.925	(0.396)	15851	1.66644	1.66
$ 30 Dibromofluoromethane	113	4.782	4.781	(0.985)	230897	42.2766	42.27(R)
$ 35 1,2-Dichloroethane-d4	65	5.123	5.126	(1.055)	293696	43.3593	43.35
* 36 1,4-Difluorobenzene	114	5.588	5.587	(1.000)	771194	50.0000	
* 47 Chlorobenzene-d5	117	8.212	8.215	(1.000)	693925	50.0000	
$ 48 Toluene-d8	98	6.956	6.956	(0.847)	830929	50.5233	50.52
$ 69 4-Bromofluorobenzene	95	9.220	9.220	(1.123)	386543	59.1793	59.17
* 70 1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	441414	50.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\G041607.D

Date : 17-APR-2024 02:21

Client ID:

Instrument: voa11.i

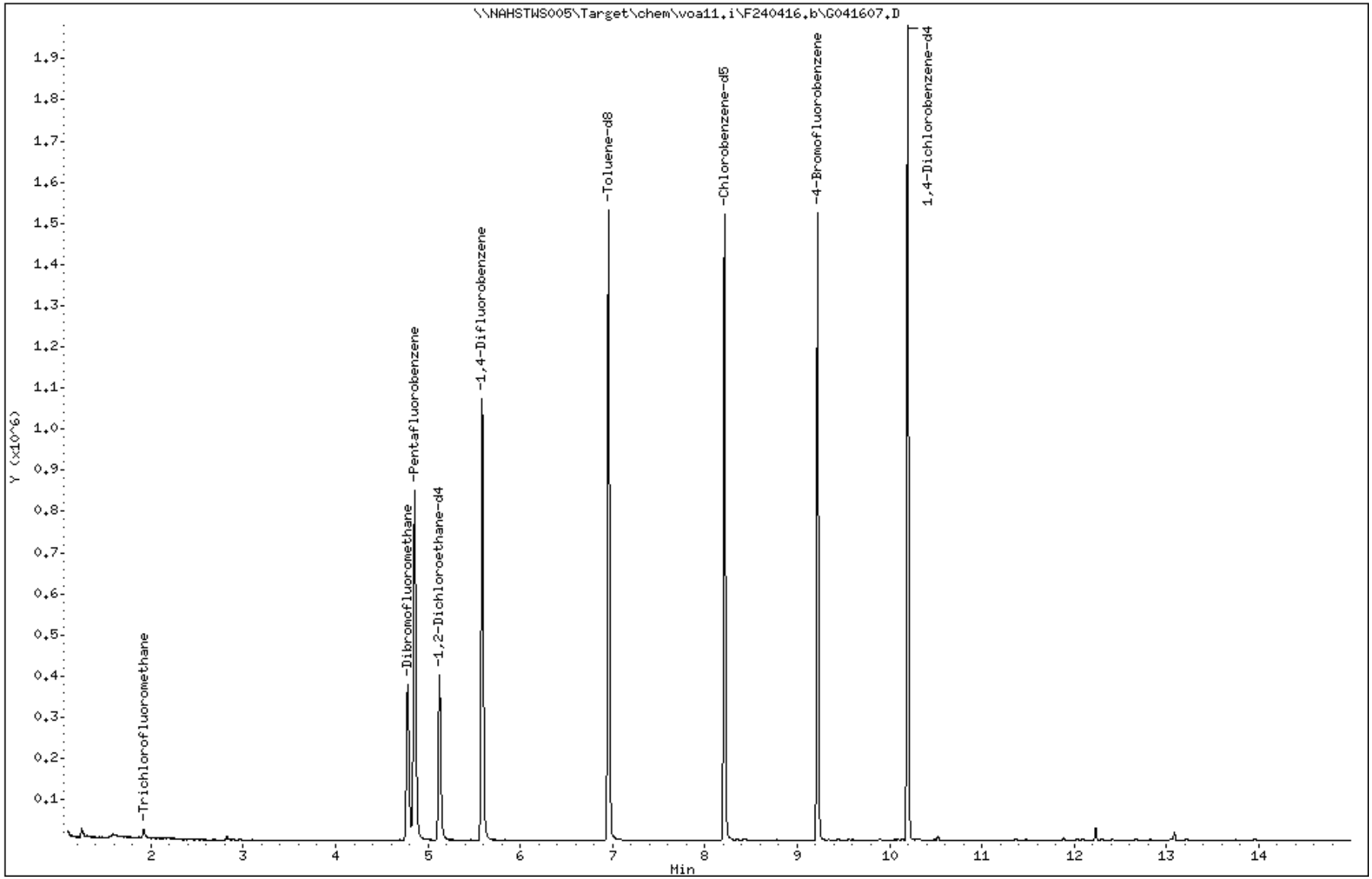
Sample Info: HS24040786-03

Purge Volume: 5.0

Operator: FT

Column phase: DB624

Column diameter: 0.18



Data File: \\NAHSTWS005\Target\chem\voa11.i\F240416.b\G041607.D Page 2

Date : 17-APR-2024 02:21

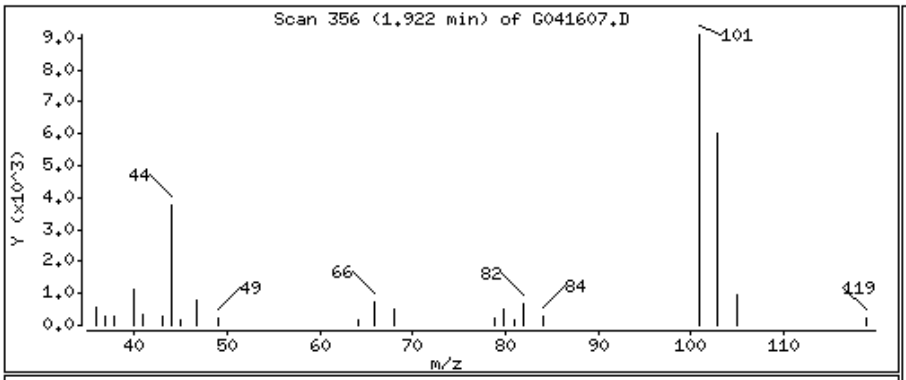
Client ID: Instrument: voa11.i

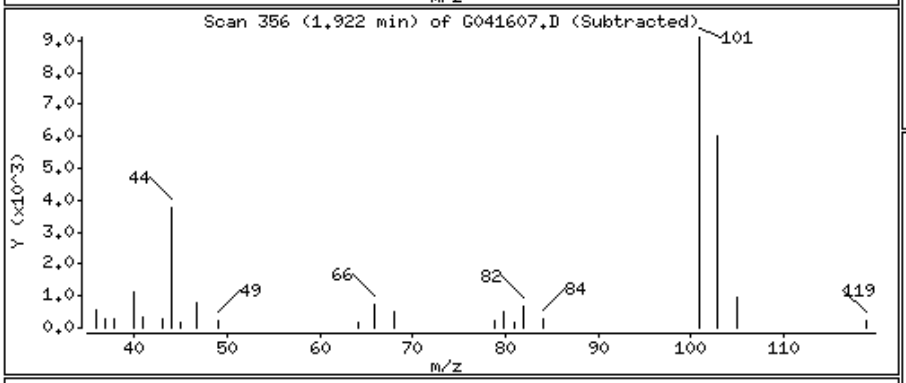
Sample Info: HS24040786-03

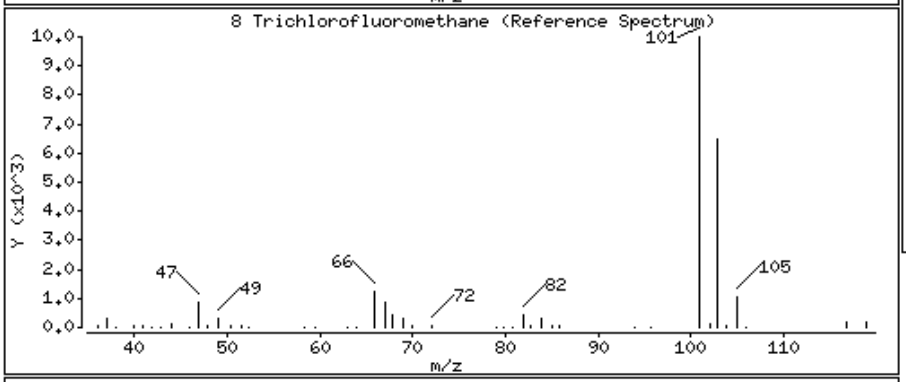
Purge Volume: 5.0 Operator: FT

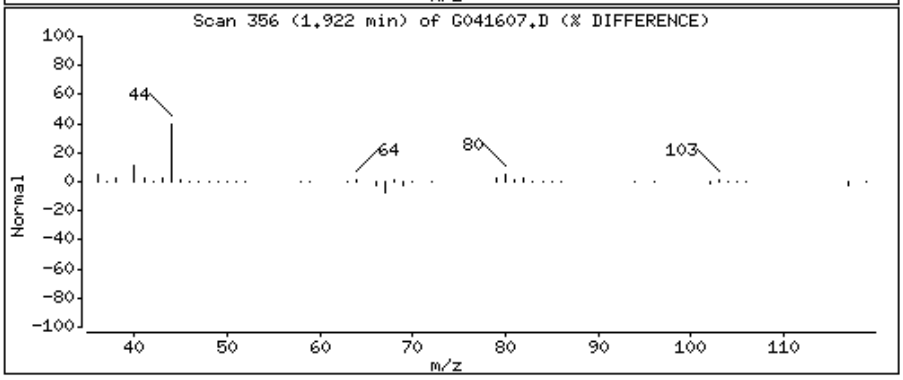
Column phase: DB624 Column diameter: 0.18

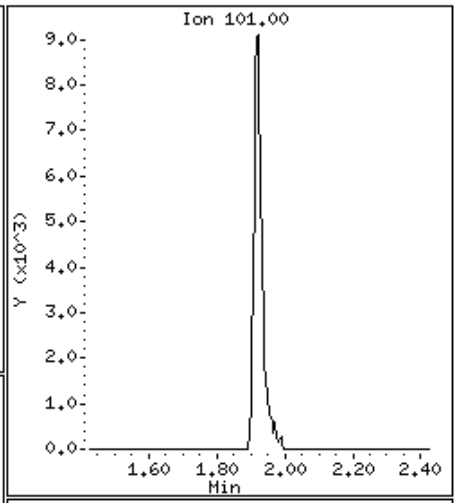
8 Trichlorofluoromethane Concentration: 1.66 ug/l

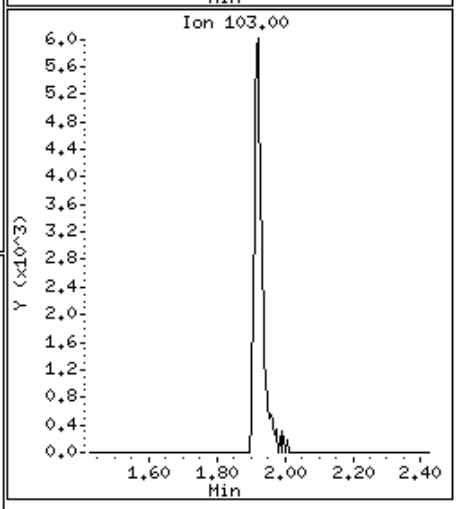












Data File : \\NAHSTWS005\Target\chem\voa11.i\F240416.b\G041607.D
Inj Date : 17-APR-2024 02:21
InstruID : voa11.i
LabSampID : HS24040786-03

NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa11.i\F240416.b\G041627.D Page 1
Report Date: 17-Apr-2024 10:03

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa11.i\F240416.b\G041627.D
Lab Smp Id: HS24040918-14MS Client Smp ID: HS24040918-14MS
Inj Date : 17-APR-2024 09:46
Operator : FT Inst ID: voa11.i
Smp Info : HS24040918-14MS;HS24040918-14MS;3;;MS
Misc Info : V11;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa11.i\F240416.b\8260C.m
Meth Date : 17-Apr-2024 09:03 apoluri Quant Type: ISTD
Cal Date : 16-APR-2024 11:58 Cal File: F041603.D
Als bottle: 58 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.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	4.856	4.860	(1.000)	572347	50.0000	
2 Dichlorodifluoromethane	85	1.171	1.171	(0.241)	105411	16.8074	16.80
3 Chloromethane	50	1.306	1.306	(0.269)	182271	16.4993	16.49
4 Propionitrile	54	4.339	4.339	(0.893)	284245	196.335	196.33
5 Vinyl Chloride	62	1.389	1.389	(0.286)	103255	16.9206	16.92
6 Bromomethane	94	1.628	1.629	(0.335)	61604	16.7142	16.71
7 Chloroethane	64	1.715	1.715	(0.353)	65326	16.6602	16.66
8 Trichlorofluoromethane	101	1.921	1.921	(0.396)	165140	16.9972	16.99
158 Dichlorofluoromethane	67	1.876	1.876	(0.386)	162661	16.9294	16.92
9 Acrolein	56	2.281	2.277	(0.470)	23342	47.9226	47.92
10 Acetone	43	2.423	2.420	(0.499)	65841	43.0753	43.07
11 1,1-Dichloroethene	96	2.363	2.364	(0.487)	82477	17.0384	17.03
12 Isobutyl Alcohol	43	5.238	5.243	(1.079)	27028	312.666	312.66
13 Acetonitrile	39	2.704	2.705	(0.557)	95298	146.596	146.59
14 Allyl Chloride	41	2.704	2.701	(0.557)	206691	16.3410	16.34
15 Iodomethane	142	2.494	2.495	(0.514)	48826	25.4032	25.40
16 Acrylonitrile	53	3.075	3.076	(0.633)	62784	31.1732	31.17
17 Methylene Chloride	84	2.821	2.821	(0.581)	96289	15.1563	15.15
18 Methyl tert-butyl ether	73	3.117	3.117	(0.642)	172650	14.9272	14.92
19 Carbon Disulfide	76	2.554	2.555	(0.526)	443090	30.0936	30.09

20 trans-1,2-Dichloroethene	96	3.098	3.098 (0.638)	87201	16.4134	16.41
21 Vinyl Acetate	43	3.664	3.642 (0.755)	246354	27.3951	27.39

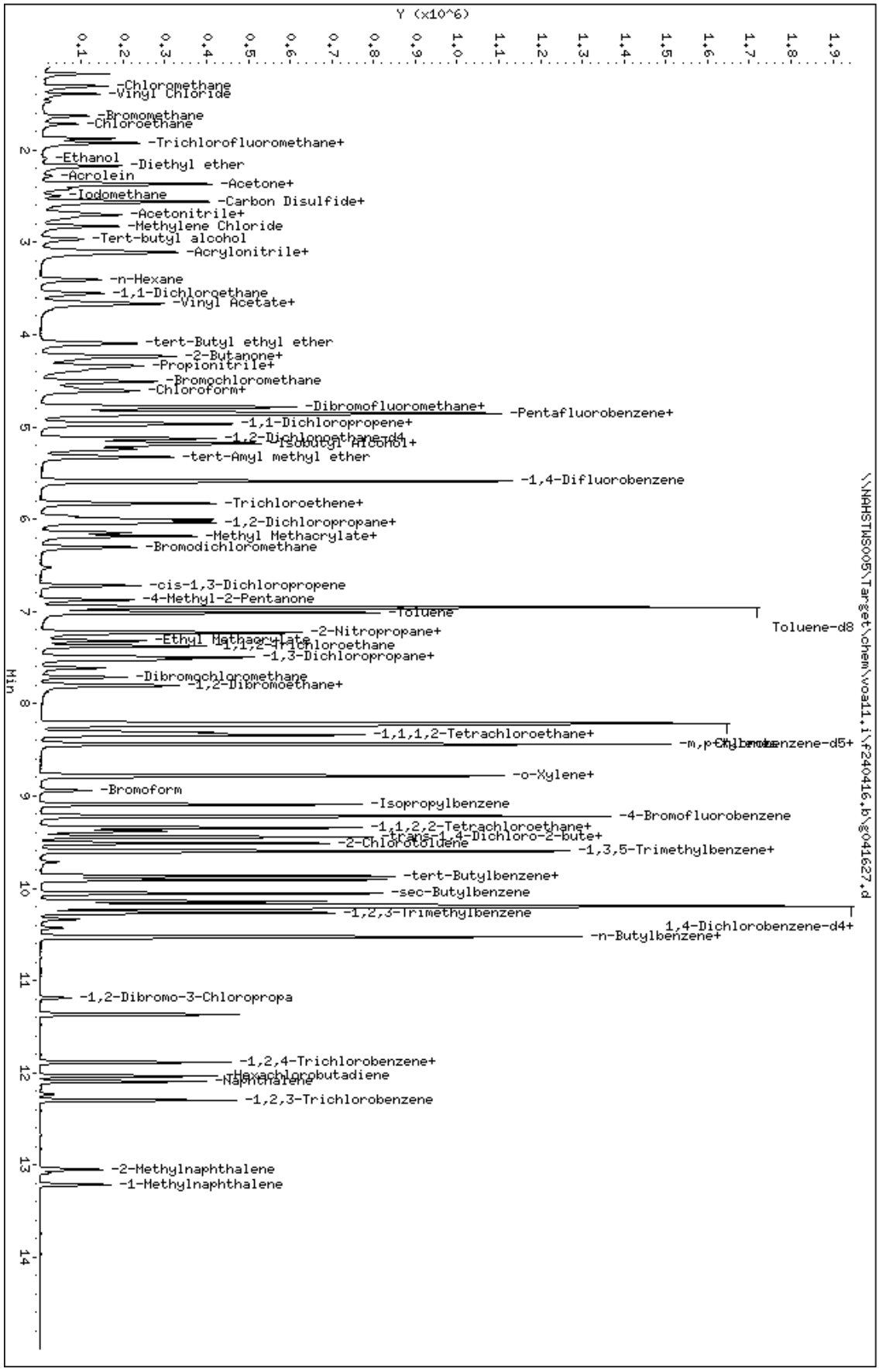
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.552	3.556	(0.731)	152628	16.9930	16.99
24	2-Butanone	43	4.279	4.279	(0.881)	68454	35.6573	35.65
25	Methacrylonitrile	41	4.234	4.230	(0.872)	61789	14.5165	14.51
26	2,2-Dichloropropane	77	4.238	4.234	(0.873)	74850	13.9987	13.99
27	cis-1,2-Dichloroethene	96	4.234	4.234	(0.872)	111779	19.6711	19.67
28	Chloroform	83	4.605	4.609	(0.948)	193596	18.6715	18.67
29	Bromochloromethane	128	4.504	4.504	(0.927)	57982	18.4492	18.44
$ 30	Dibromofluoromethane	113	4.781	4.781	(0.985)	257249	46.0839	46.08
31	1,1,1-Trichloroethane	97	4.789	4.793	(0.986)	158461	19.3579	19.35
32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	130693	20.0496	20.04
33	1,2-Dichloroethane	62	5.205	5.205	(0.932)	157250	18.2843	18.28
34	Carbon Tetrachloride	117	4.965	4.965	(0.889)	133971	19.4534	19.45
$ 35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	296157	42.8069	42.80
* 36	1,4-Difluorobenzene	114	5.587	5.587	(1.000)	825858	50.0000	
37	Benzene	78	5.179	5.179	(0.927)	407420	20.1394	20.13
38	Trichloroethene	130	5.827	5.827	(1.043)	116632	19.3078	19.30
39	Bromodichloromethane	83	6.307	6.303	(1.129)	126139	18.2373	18.23
40	Methyl Methacrylate	41	6.183	6.180	(1.273)	134977	16.3945	16.39
42	1,2-Dichloropropane	63	6.041	6.041	(1.081)	102297	19.6972	19.69
43	2-Nitropropane	43	7.229	7.229	(1.489)	96510	16.1127	16.11
44	Dibromomethane	93	6.146	6.146	(1.100)	69883	18.5269	18.52
45	4-Methyl-2-Pentanone	43	6.877	6.873	(0.837)	124510	35.4673	35.46
46	cis-1,3-Dichloropropene	75	6.719	6.720	(1.203)	109980	14.7421	14.74
* 47	Chlorobenzene-d5	117	8.211	8.212	(1.000)	725347	50.0000	
$ 48	Toluene-d8	98	6.955	6.956	(0.847)	946405	54.9645	54.96
49	Ethyl Methacrylate	69	7.319	7.316	(1.310)	115602	17.4081	17.40
50	Toluene	91	7.015	7.016	(0.854)	440782	21.0429	21.04
51	trans-1,3-Dichloropropene	75	7.222	7.218	(1.293)	96673	15.2255	15.22
52	2-Hexanone	43	7.229	7.229	(0.880)	96510	35.5556	35.55
53	1,1,2-Trichloroethane	83	7.375	7.376	(0.898)	85546	20.6498	20.64
54	1,3-Dichloropropane	76	7.521	7.522	(0.916)	164935	20.0053	20.00
55	Dibromochloromethane	129	7.713	7.717	(0.939)	86954	16.7196	16.71
56	Tetrachloroethene	164	7.495	7.492	(0.913)	93374	19.1847	19.18
57	1,2-Dibromoethane	107	7.806	7.807	(0.951)	101126	18.8343	18.83
58	1-Chlorohexane	55	8.226	8.227	(1.472)	83339	16.4751	16.47
59	Chlorobenzene	112	8.237	8.238	(1.003)	274253	17.7435	17.74
60	1,1,1,2-Tetrachloroethane	131	8.312	8.313	(1.012)	89185	18.3090	18.30
61	Ethylbenzene	106	8.339	8.339	(1.016)	133510	19.6024	19.60
62	m,p-Xylenes	106	8.440	8.440	(1.028)	346233	37.3903	37.39
63	o-Xylene	106	8.777	8.778	(1.069)	158772	18.2691	18.26
64	Styrene	104	8.789	8.789	(1.070)	267883	17.9516	17.95
66	Bromoform	173	8.938	8.943	(1.089)	42647	15.3444	15.34
67	Isopropylbenzene	105	9.092	9.092	(1.107)	392234	17.7367	17.73
68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	119768	17.3550	17.35
$ 69	4-Bromofluorobenzene	95	9.220	9.220	(1.123)	341474	50.0388	50.03
* 70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	412009	50.0000	
71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	105369	17.0798	17.07
72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	16917	14.2935	14.29
73	n-Propylbenzene	91	9.441	9.441	(0.926)	483469	18.3769	18.37
74	Bromobenzene	156	9.343	9.344	(0.916)	113824	17.7306	17.73
75	1,3,5-Trimethylbenzene	105	9.594	9.595	(0.941)	356885	17.4902	17.49
76	2-Chlorotoluene	91	9.512	9.512	(0.933)	300115	18.4206	18.42

77	4-Chlorotoluene	91	9.602	9.602 (0.942)	361047	18.0474	18.04
78	tert-Butylbenzene	119	9.868	9.868 (0.968)	317705	18.5524	18.55

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.909	9.910	(0.972)	358201	18.0967	18.09
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	440396	18.3276	18.32
82	p-Isopropyltoluene	119	10.179	10.180	(0.998)	384957	17.8747	17.87
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	218766	18.8774	18.87
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	235270	17.7414	17.74
87	n-Butylbenzene	91	10.524	10.524	(1.032)	307161	17.1195	17.11
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	224357	18.9313	18.93
89	1,2-Dibromo-3-Chloropropane	155	11.191	11.188	(1.097)	12156	15.2967	15.29
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	114335	16.3168	16.31
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	62504	15.8092	15.80
92	Naphthalene	128	12.095	12.095	(1.186)	239364	15.0499	15.04
93	1,2,3-Trichlorobenzene	180	12.297	12.298	(1.206)	114612	16.1819	16.18
146	Methyl acetate	43	2.738	2.735	(0.564)	63858	11.2986	11.29
138	Freon TF	101	2.374	2.371	(0.489)	98711	16.9306	16.93
139	Diethyl ether	59	2.172	2.169	(0.447)	109617	16.1847	16.18
141	Cyclohexane	56	4.845	4.841	(0.998)	150498	18.8591	18.85
147	Methylcyclohexane	55	6.003	6.004	(1.074)	119440	18.8077	18.80
132	n-Butanol	56	5.823	5.820	(1.199)	22730	304.980	304.98
131	Methyl Acrylate	55	4.395	4.395	(0.905)	81213	16.8619	16.86
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	74524	14.3426	14.34
135	1,4-Dioxane	88	6.191	6.183	(1.275)	20416	361.011	361.01(A)
136	n-Hexane	57	3.402	3.402	(0.701)	70074	13.0368	13.03
142	Tetrahydrofuran	42	4.575	4.572	(0.942)	44989	34.7791	34.77
148	Tert-butyl alcohol	59	2.963	2.963	(0.610)	81501	313.276	313.27
149	Isopropyl alcohol	45	2.569	2.566	(0.529)	147865	670.582	670.58
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	186841	293.137	293.13
166	1,2,3-Trimethylbenzene	105	10.265	10.266	(1.007)	325040	17.8373	17.83
167	Ethanol	45	2.093	2.094	(0.431)	16319	331.509	331.50
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	114335	16.3168	16.31
172	tert-Butyl formate	59	5.242	5.243	(1.080)	52256	31.0419	31.04
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	101195	334.920	334.92
174	tert-Amyl methyl ether	73	5.325	5.321	(1.096)	170514	16.4710	16.47
175	tert-Butyl ethyl ether	59	4.095	4.095	(0.843)	192656	16.5931	16.59
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	61585	13.4308	13.43
156	Diisopropyl ether	45	3.664	3.664	(0.755)	255219	16.8623	16.86
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	69038	13.6929	13.69
130	Ethyl Acetate	43	4.369	4.365	(0.900)	120996	13.9896	13.98
176	tert-Amyl alcohol	59	5.242	5.243	(1.080)	52256	312.155	312.15(A)
M 94	1,2-Dichloroethylene (total)	96				198980	36.0845	36.08
M 95	Xylenes (total)	106				505005	55.6595	55.65

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.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Sample Info: HS24040918-14MS;HS24040918-14MS;3;;MS
Purge Volume: 5.0
Column phase: DB624
Instrument: voa11.i
Operator: FT
Column diameter: 0.18
\\NAHSTWS005\Target\chem\voa11.i\f240416.b\g041627.d
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane+
-Ethanol
-Diethyl ether
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Vinyl Acetate+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane-d4
-Isobutyl Alcohol+
-tert-Amyl methyl ether
-1,4-Difluorobenzene
-Trichloroethene+
-1,2-Dichloropropane+
-Methyl Methacrylate+
-Bromodichloromethane
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene
Toluene-d8
-2-Nitropropane+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane+
-1,1,1,2-Tetrachloroethane+
-m,p-Chlorobenzene-d5+
-o-Xylene+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-1,2,3-Trimethylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene+
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
-1-Methylnaphthalene

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NO MANUAL INTEGRATIONS

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Report Date: 17-Apr-2024 10:24

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa11.i\F240416.b\G041628.D
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Inj Date : 17-APR-2024 10:08
Operator : FT Inst ID: voa11.i
Smp Info : HS24040918-14MSD;HS24040918-14MSD;3;;MSD
Misc Info : V11;WATER;0;1;
Comment   :
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Meth Date : 17-Apr-2024 09:03 apoluri Quant Type: ISTD
Cal Date : 16-APR-2024 11:58 Cal File: F041603.D
Als bottle: 58 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.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	4.857	4.860	(1.000)	584517	50.0000	
2 Dichlorodifluoromethane	85	1.172	1.171	(0.241)	96537	15.0720	15.07
3 Chloromethane	50	1.306	1.306	(0.269)	166491	14.7571	14.75
4 Propionitrile	54	4.339	4.339	(0.893)	295099	199.588	199.58
5 Vinyl Chloride	62	1.389	1.389	(0.286)	97835	15.6986	15.69
6 Bromomethane	94	1.625	1.629	(0.335)	53817	14.0929	14.09
7 Chloroethane	64	1.711	1.715	(0.352)	63934	15.9657	15.96
8 Trichlorofluoromethane	101	1.921	1.921	(0.396)	157959	15.9196	15.91
158 Dichlorofluoromethane	67	1.876	1.876	(0.386)	156504	15.9494	15.94
9 Acrolein	56	2.281	2.277	(0.470)	27859	55.2570	55.25
10 Acetone	43	2.424	2.420	(0.499)	73403	46.6764	46.67
11 1,1-Dichloroethene	96	2.364	2.364	(0.487)	86526	17.5027	17.50
12 Isobutyl Alcohol	43	5.239	5.243	(1.079)	28232	320.012	320.01
13 Acetonitrile	39	2.705	2.705	(0.557)	108493	162.150	162.14
14 Allyl Chloride	41	2.701	2.701	(0.556)	236811	18.0607	18.06
15 Iodomethane	142	2.495	2.495	(0.514)	68078	30.1949	30.19
16 Acrylonitrile	53	3.076	3.076	(0.633)	78448	37.2150	37.21
17 Methylene Chloride	84	2.825	2.821	(0.582)	109534	16.9129	16.91
18 Methyl tert-butyl ether	73	3.117	3.117	(0.642)	206112	16.8828	16.88
19 Carbon Disulfide	76	2.555	2.555	(0.526)	478152	31.7988	31.79

20 trans-1,2-Dichloroethene	96	3.098	3.098 (0.638)	97626	17.9931	17.99
21 Vinyl Acetate	43	3.657	3.642 (0.753)	256665	27.8633	27.86

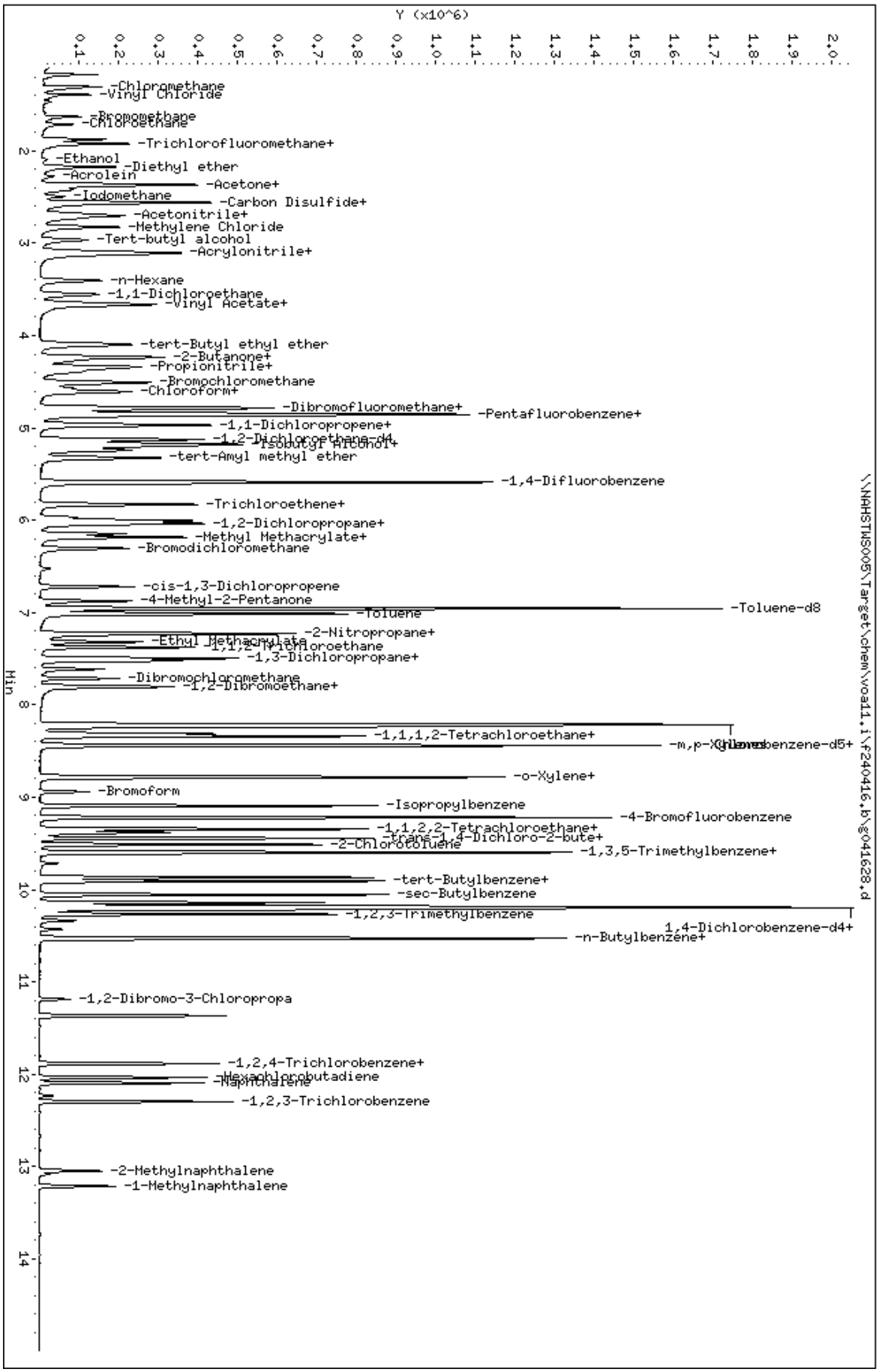
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
22	1,1-Dichloroethane	63	3.552	3.556	(0.731)	165846	18.0802	18.08
24	2-Butanone	43	4.283	4.279	(0.882)	71504	36.3406	36.34
25	Methacrylonitrile	41	4.234	4.230	(0.872)	57247	13.1694	13.16
26	2,2-Dichloropropane	77	4.234	4.234	(0.872)	73827	13.6289	13.62
27	cis-1,2-Dichloroethene	96	4.238	4.234	(0.873)	110465	19.0351	19.03
28	Chloroform	83	4.609	4.609	(0.949)	188775	17.8275	17.82
29	Bromochloromethane	128	4.500	4.504	(0.927)	56814	17.7012	17.70
$ 30	Dibromofluoromethane	113	4.778	4.781	(0.984)	256991	45.0862	45.08
31	1,1,1-Trichloroethane	97	4.789	4.793	(0.986)	154152	18.4394	18.43
32	1,1-Dichloropropene	75	4.969	4.969	(0.889)	123025	18.3943	18.39
33	1,2-Dichloroethane	62	5.205	5.205	(0.932)	157132	17.8070	17.80
34	Carbon Tetrachloride	117	4.965	4.965	(0.889)	124084	17.5605	17.56
$ 35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	301090	42.6143	42.61
* 36	1,4-Difluorobenzene	114	5.588	5.587	(1.000)	847360	50.0000	
37	Benzene	78	5.179	5.179	(0.927)	393045	18.9358	18.93
38	Trichloroethene	130	5.827	5.827	(1.043)	111859	18.0478	18.04
39	Bromodichloromethane	83	6.304	6.303	(1.128)	122694	17.2891	17.28
40	Methyl Methacrylate	41	6.184	6.180	(1.273)	137195	16.3315	16.33
42	1,2-Dichloropropane	63	6.041	6.041	(1.081)	98775	18.5365	18.53
43	2-Nitropropane	43	7.229	7.229	(1.489)	104523	17.0871	17.08
44	Dibromomethane	93	6.146	6.146	(1.100)	69611	17.9865	17.98
45	4-Methyl-2-Pentanone	43	6.877	6.873	(0.837)	135379	36.8720	36.87
46	cis-1,3-Dichloropropene	75	6.720	6.720	(1.203)	110337	14.4779	14.47
* 47	Chlorobenzene-d5	117	8.212	8.212	(1.000)	756856	50.0000	
$ 48	Toluene-d8	98	6.956	6.956	(0.847)	949970	52.9148	52.91
49	Ethyl Methacrylate	69	7.319	7.316	(1.310)	113760	16.7672	16.76
50	Toluene	91	7.012	7.016	(0.854)	419984	19.2776	19.27
51	trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	98251	15.0996	15.09
52	2-Hexanone	43	7.229	7.229	(0.880)	104523	36.9046	36.90
53	1,1,2-Trichloroethane	83	7.376	7.376	(0.898)	83005	19.2023	19.20
54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	166363	19.3384	19.33
55	Dibromochloromethane	129	7.717	7.717	(0.940)	84664	15.8054	15.80
56	Tetrachloroethene	164	7.496	7.492	(0.913)	90070	17.7354	17.73
57	1,2-Dibromoethane	107	7.807	7.807	(0.951)	101098	18.0980	18.09
58	1-Chlorohexane	55	8.230	8.227	(1.473)	84825	16.3413	16.34
59	Chlorobenzene	112	8.238	8.238	(1.003)	292089	18.1108	18.11
60	1,1,1,2-Tetrachloroethane	131	8.309	8.313	(1.012)	94715	18.6348	18.63
61	Ethylbenzene	106	8.339	8.339	(1.016)	142155	20.0028	20.00
62	m,p-Xylenes	106	8.440	8.440	(1.028)	358741	37.1303	37.13
63	o-Xylene	106	8.778	8.778	(1.069)	167430	18.4502	18.45
64	Styrene	104	8.789	8.789	(1.070)	286919	18.3997	18.39
66	Bromoform	173	8.939	8.943	(1.089)	46508	15.9981	15.99
67	Isopropylbenzene	105	9.093	9.092	(1.107)	427081	18.4566	18.45
68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	132498	18.4107	18.41
$ 69	4-Bromofluorobenzene	95	9.220	9.220	(1.123)	368113	51.6915	51.69
* 70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	429665	50.0000	
71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	115216	17.9085	17.90
72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	18186	14.6993	14.69
73	n-Propylbenzene	91	9.445	9.441	(0.926)	520357	18.9215	18.92
74	Bromobenzene	156	9.344	9.344	(0.916)	123633	18.3902	18.39
75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	384182	18.0059	18.00
76	2-Chlorotoluene	91	9.512	9.512	(0.933)	322150	18.9223	18.92

77	4-Chlorotoluene	91	9.602	9.602 (0.942)	386323	18.4946	18.49
78	tert-Butylbenzene	119	9.869	9.868 (0.968)	324742	18.2256	18.22

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	385750	18.6319	18.63
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	457914	18.2793	18.27
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	407943	18.1325	18.13
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	233546	19.3247	19.32
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	241022	17.4283	17.42
87	n-Butylbenzene	91	10.525	10.524	(1.032)	306503	16.4763	16.47
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	227551	18.4118	18.41
89	1,2-Dibromo-3-Chloropropane	155	11.192	11.188	(1.097)	12521	15.1236	15.12
90	1,2,4-Trichlorobenzene	180	11.885	11.889	(1.165)	115494	15.8137	15.81
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	62700	15.2071	15.20
92	Naphthalene	128	12.095	12.095	(1.186)	257866	15.4922	15.49
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	117204	15.8709	15.87
146	Methyl acetate	43	2.735	2.735	(0.563)	75925	13.1539	13.15
138	Freon TF	101	2.371	2.371	(0.488)	98384	16.5232	16.52
139	Diethyl ether	59	2.172	2.169	(0.447)	110758	16.0127	16.01
141	Cyclohexane	56	4.842	4.841	(0.997)	146002	17.8905	17.89
147	Methylcyclohexane	55	6.007	6.004	(1.075)	116286	17.8329	17.83
132	n-Butanol	56	5.820	5.820	(1.198)	25497	331.357	331.35
131	Methyl Acrylate	55	4.392	4.395	(0.904)	86018	17.3998	17.39
133	Ethyl Acrylate	55	5.970	5.966	(1.229)	79068	14.7259	14.72
135	1,4-Dioxane	88	6.187	6.183	(1.274)	19420	337.295	337.29(A)
136	n-Hexane	57	3.402	3.402	(0.701)	78820	14.2144	14.21
142	Tetrahydrofuran	42	4.572	4.572	(0.941)	48742	36.7333	36.73
148	Tert-butyl alcohol	59	2.963	2.963	(0.610)	99904	369.554	369.55
149	Isopropyl alcohol	45	2.566	2.566	(0.528)	184417	807.163	807.16
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	202052	307.337	307.33
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	346277	18.1882	18.18
167	Ethanol	45	2.090	2.094	(0.430)	16798	334.345	334.34
170	1,3,5-Trichlorobenzene	180	11.885	11.889	(1.165)	115494	15.8137	15.81
172	tert-Butyl formate	59	5.239	5.243	(1.079)	57887	33.4454	33.44
173	3,3-Dimethyl-1-butanol	57	7.795	7.795	(0.949)	103660	328.846	328.84
174	tert-Amyl methyl ether	73	5.325	5.321	(1.096)	174607	16.5044	16.50
175	tert-Butyl ethyl ether	59	4.099	4.095	(0.844)	198207	16.6906	16.69
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	63198	13.2694	13.26
156	Diisopropyl ether	45	3.664	3.664	(0.755)	267101	17.2484	17.24
180	1-Methylnaphthalene	142	13.216	13.212	(1.296)	77433	14.5524	14.55
130	Ethyl Acetate	43	4.365	4.365	(0.899)	123738	14.0051	14.00
176	tert-Amyl alcohol	59	5.239	5.243	(1.079)	57887	336.291	336.29(A)
M 94	1,2-Dichloroethylene (total)	96				208091	37.0282	37.02
M 95	Xylenes (total)	106				526171	55.5805	55.58

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.



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Instrument: voa11.i
Operator: FT
Column diameter: 0.18

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 NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa11.i\F240416.b\G041629.D Page 1
Report Date: 17-Apr-2024 10:47

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa11.i\F240416.b\G041629.D
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Als bottle: 59 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 00000_8260-LLw.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	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
* 1	Pentafluorobenzene	168	4.856	4.856	(1.000)	588116	50.0000	
2	Dichlorodifluoromethane	85	1.172	1.172	(0.241)	267951	50.0000	41.57
3	Chloromethane	50	1.306	1.306	(0.269)	455066	50.0000	40.08
4	Propionitrile	54	4.339	4.339	(0.893)	747249	500.000	502.30
5	Vinyl Chloride	62	1.389	1.389	(0.286)	262640	50.0000	41.88
6	Bromomethane	94	1.625	1.625	(0.335)	123627	50.0000	33.70
7	Chloroethane	64	1.711	1.711	(0.352)	165588	50.0000	41.09
8	Trichlorofluoromethane	101	1.921	1.921	(0.396)	423742	50.0000	42.44
158	Dichlorofluoromethane	67	1.876	1.876	(0.386)	415936	50.0000	42.12
9	Acrolein	56	2.277	2.277	(0.469)	77675	100.000	139.89
10	Acetone	43	2.424	2.424	(0.499)	140185	100.000	85.20
11	1,1-Dichloroethene	96	2.364	2.364	(0.487)	202512	50.0000	40.71
12	Isobutyl Alcohol	43	5.239	5.239	(1.079)	81209	1000.00	908.31
13	Acetonitrile	39	2.701	2.701	(0.556)	283889	500.000	403.98
14	Allyl Chloride	41	2.701	2.701	(0.556)	592443	50.0000	41.59
15	Iodomethane	142	2.495	2.495	(0.514)	169474	100.000	56.59
16	Acrylonitrile	53	3.076	3.076	(0.633)	189230	100.000	83.43
17	Methylene Chloride	84	2.825	2.825	(0.582)	257898	50.0000	39.94
18	Methyl tert-butyl ether	73	3.117	3.117	(0.642)	544953	50.0000	38.90
19	Carbon Disulfide	76	2.555	2.555	(0.526)	1201589	100.000	79.42

20 trans-1,2-Dichloroethene	96	3.098	3.098 (0.638)	232183	50.0000	42.53
21 Vinyl Acetate	43	3.642	3.642 (0.750)	856921	100.000	82.78

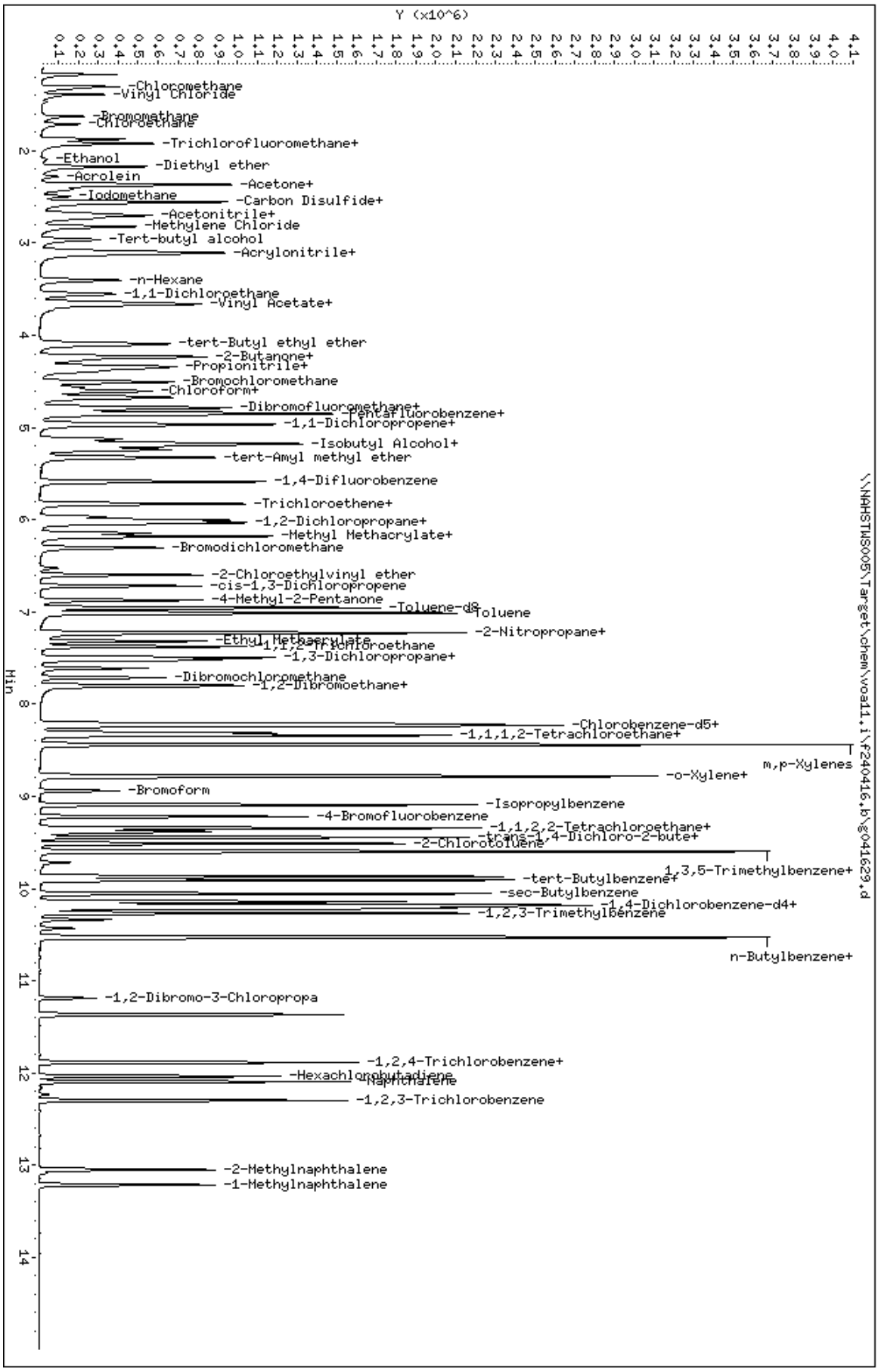
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
22	1,1-Dichloroethane	63	3.552	3.552	(0.731)	406445	50.0000	44.03
24	2-Butanone	43	4.279	4.279	(0.881)	186007	100.000	84.92
25	Methacrylonitrile	41	4.227	4.227	(0.870)	151453	50.0000	34.62
26	2,2-Dichloropropane	77	4.234	4.234	(0.872)	205606	50.0000	32.08
27	cis-1,2-Dichloroethene	96	4.234	4.234	(0.872)	284461	50.0000	48.71
28	Chloroform	83	4.609	4.609	(0.949)	459156	50.0000	43.09
29	Bromochloromethane	128	4.504	4.504	(0.927)	135133	50.0000	41.84
$ 30	Dibromofluoromethane	113	4.782	4.782	(0.985)	258654	50.0000	45.10
31	1,1,1-Trichloroethane	97	4.789	4.789	(0.986)	416691	50.0000	49.53
32	1,1-Dichloropropene	75	4.973	4.973	(0.890)	326752	50.0000	50.25
33	1,2-Dichloroethane	62	5.205	5.205	(0.932)	411769	50.0000	48.00
34	Carbon Tetrachloride	117	4.965	4.965	(0.889)	345895	50.0000	50.35
$ 35	1,2-Dichloroethane-d4	65	5.126	5.126	(1.056)	300097	50.0000	42.21
* 36	1,4-Difluorobenzene	114	5.587	5.587	(1.000)	823750	50.0000	
37	Benzene	78	5.179	5.179	(0.927)	1001866	50.0000	49.65
38	Trichloroethene	130	5.827	5.827	(1.043)	275337	50.0000	45.69
39	Bromodichloromethane	83	6.303	6.303	(1.128)	326291	50.0000	47.29
40	Methyl Methacrylate	41	6.180	6.180	(1.272)	418360	50.0000	43.22
41	2-Chloroethylvinyl ether	63	6.600	6.600	(1.181)	278704	100.000	82.81
42	1,2-Dichloropropane	63	6.037	6.037	(1.081)	249207	50.0000	48.10
43	2-Nitropropane	43	7.229	7.229	(1.489)	286426	50.0000	46.53
44	Dibromomethane	93	6.146	6.146	(1.100)	178537	50.0000	47.45
45	4-Methyl-2-Pentanone	43	6.873	6.873	(0.837)	437356	100.000	107.08
46	cis-1,3-Dichloropropene	75	6.720	6.720	(1.203)	362236	50.0000	42.12
* 47	Chlorobenzene-d5	117	8.212	8.212	(1.000)	788931	50.0000	
$ 48	Toluene-d8	98	6.956	6.956	(0.847)	955209	50.0000	51.07
49	Ethyl Methacrylate	69	7.319	7.319	(1.310)	352497	50.0000	48.67
50	Toluene	91	7.012	7.012	(0.854)	1121129	50.0000	48.24
51	trans-1,3-Dichloropropene	75	7.218	7.218	(1.292)	324914	50.0000	45.82
52	2-Hexanone	43	7.229	7.229	(0.880)	286426	100.000	97.01
53	1,1,2-Trichloroethane	83	7.376	7.376	(0.898)	217664	50.0000	48.30
54	1,3-Dichloropropane	76	7.522	7.522	(0.916)	428840	50.0000	47.82
55	Dibromochloromethane	129	7.717	7.717	(0.940)	258282	50.0000	40.38
56	Tetrachloroethene	164	7.492	7.492	(0.912)	223333	50.0000	42.18
57	1,2-Dibromoethane	107	7.807	7.807	(0.951)	267675	50.0000	44.03
58	1-Chlorohexane	55	8.230	8.230	(1.473)	212249	50.0000	42.47
59	Chlorobenzene	112	8.238	8.238	(1.003)	757540	50.0000	45.06
60	1,1,1,2-Tetrachloroethane	131	8.313	8.313	(1.012)	258936	50.0000	48.87
61	Ethylbenzene	106	8.339	8.339	(1.016)	364725	50.0000	49.23
62	m,p-Xylenes	106	8.440	8.440	(1.028)	940928	100.000	92.98
63	o-Xylene	106	8.778	8.778	(1.069)	447526	50.0000	45.37
64	Styrene	104	8.789	8.789	(1.070)	782156	50.0000	46.46
66	Bromoform	173	8.943	8.943	(1.089)	143411	50.0000	44.66
67	Isopropylbenzene	105	9.093	9.093	(1.107)	1147342	50.0000	45.68
68	1,1,2,2-Tetrachloroethane	83	9.347	9.347	(0.917)	345257	50.0000	44.66
$ 69	4-Bromofluorobenzene	95	9.220	9.220	(1.123)	341271	50.0000	45.99
* 70	1,4-Dichlorobenzene-d4	152	10.198	10.198	(1.000)	461481	50.0000	
71	1,2,3-Trichloropropane	75	9.381	9.381	(0.920)	321442	50.0000	46.51
72	trans-1,4-Dichloro-2-butene	53	9.396	9.396	(1.144)	57836	50.0000	42.16
73	n-Propylbenzene	91	9.445	9.445	(0.926)	1328090	50.0000	43.04
74	Bromobenzene	156	9.344	9.344	(0.916)	320721	50.0000	41.79
75	1,3,5-Trimethylbenzene	105	9.595	9.595	(0.941)	1063696	50.0000	44.04

76	2-Chlorotoluene	91	9.512	9.512 (0.933)	813762	50.0000	42.73
77	4-Chlorotoluene	91	9.602	9.602 (0.942)	1028808	50.0000	44.56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
78	tert-Butylbenzene	119	9.869	9.869	(0.968)	914734	50.0000	44.39
79	1,2,4-Trimethylbenzene	105	9.910	9.910	(0.972)	1046451	50.0000	44.45
81	sec-Butylbenzene	105	10.056	10.056	(0.986)	1220539	50.0000	42.45
82	p-Isopropyltoluene	119	10.180	10.180	(0.998)	1162062	50.0000	44.90
83	1,3-Dichlorobenzene	146	10.142	10.142	(0.994)	608643	50.0000	46.88
84	1,4-Dichlorobenzene	146	10.217	10.217	(1.002)	660976	50.0000	44.50
87	n-Butylbenzene	91	10.525	10.525	(1.032)	924782	50.0000	42.28
88	1,2-Dichlorobenzene	146	10.532	10.532	(1.033)	653303	50.0000	49.21
89	1,2-Dibromo-3-Chloropropane	155	11.188	11.188	(1.097)	47172	50.0000	48.39
90	1,2,4-Trichlorobenzene	180	11.889	11.889	(1.166)	405729	50.0000	49.74
91	Hexachlorobutadiene	225	12.035	12.035	(1.180)	190264	50.0000	42.96
92	Naphthalene	128	12.095	12.095	(1.186)	989057	50.0000	51.06
93	1,2,3-Trichlorobenzene	180	12.298	12.298	(1.206)	392471	50.0000	49.14
146	Methyl acetate	43	2.735	2.735	(0.563)	254417	50.0000	43.80
138	Freon TF	101	2.371	2.371	(0.488)	234251	50.0000	39.10
139	Diethyl ether	59	2.169	2.169	(0.447)	312572	50.0000	44.91
141	Cyclohexane	56	4.845	4.845	(0.998)	365527	50.0000	45.23
147	Methylcyclohexane	55	6.004	6.004	(1.074)	281520	50.0000	44.80
132	n-Butanol	56	5.820	5.820	(1.198)	79820	1000.00	926.23
131	Methyl Acrylate	55	4.392	4.392	(0.904)	230614	50.0000	42.42
133	Ethyl Acrylate	55	5.966	5.966	(1.228)	265701	50.0000	38.69
135	1,4-Dioxane	88	6.187	6.187	(1.274)	57015	1000.00	938.59(A)
136	n-Hexane	57	3.406	3.406	(0.701)	202598	50.0000	34.10
142	Tetrahydrofuran	42	4.568	4.568	(0.941)	136964	100.000	96.04
148	Tert-butyl alcohol	59	2.967	2.967	(0.611)	260706	1000.00	886.08
149	Isopropyl alcohol	45	2.566	2.566	(0.528)	203726	1000.00	879.95
151	4-Methyl-2-pentanol	45	7.229	7.229	(1.294)	730614	1000.00	1023.27
166	1,2,3-Trimethylbenzene	105	10.266	10.266	(1.007)	1002066	50.0000	46.36
167	Ethanol	45	2.090	2.090	(0.430)	43112	1000.00	878.68
170	1,3,5-Trichlorobenzene	180	11.889	11.889	(1.166)	405729	50.0000	49.74
172	tert-Butyl formate	59	5.239	5.239	(1.079)	189763	100.000	99.60
173	3,3-Dimethyl-1-butanol	57	7.792	7.792	(0.949)	323207	1000.00	951.19
174	tert-Amyl methyl ether	73	5.325	5.325	(1.096)	542006	50.0000	42.52
175	tert-Butyl ethyl ether	59	4.096	4.096	(0.843)	562473	50.0000	40.85
160	2-Methylnaphthalene	142	13.047	13.047	(1.279)	332004	50.0000	49.95
156	Diisopropyl ether	45	3.664	3.664	(0.755)	710907	50.0000	43.52
180	1-Methylnaphthalene	142	13.212	13.212	(1.296)	357698	50.0000	52.74
130	Ethyl Acetate	43	4.365	4.365	(0.899)	456086	50.0000	44.14
176	tert-Amyl alcohol	59	5.239	5.239	(1.079)	189763	1000.00	1000.51(A)
M 94	1,2-Dichloroethylene (total)	96				516644	100.000	91.24
M 95	Xylenes (total)	106				1388454	150.000	138.36

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.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Instrument: voa11.i
Operator: FT
Column diameter: 0.18
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-Vinyl Chloride
-Bromomethane
-Chloroethane
-Trichlorofluoromethane+
-Ethanol
-Diethyl ether
-Acrolein
-Acetone+
-Iodomethane
-Carbon Disulfide+
-Acetonitrile+
-Methylene Chloride
-Tert-butyl alcohol
-Acrylonitrile+
-n-Hexane
-1,1-Dichloroethane
-Vinyl Acetate+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
-Bromochloromethane
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-Isobutyl Alcohol+
-tert-Amyl methyl ether
-1,4-Difluorobenzene
-Trichloroethene+
-1,2-Dichloropropane+
-Methyl Methacrylate+
-Bromodichloromethane
-2-Chloroethylvinyl ether
-cis-1,3-Dichloropropene
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-2-Nitropropane+
-Ethyl Methacrylate
-1,1,2-Trichloroethane
-1,3-Dichloropropane+
-Dibromochloromethane
-1,2-Dibromoethane+
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
m,p-Xylenes
-o-Xylene+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-trans-1,4-Dichloro-2-bute+
-2-Chlorotoluene
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
-1,4-Dichlorobenzene-d4+
-1,2,3-Trimethylbenzene
n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene+
-Hexachlorobutadiene
-Naphthalene
-1,2,3-Trichlorobenzene
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LabSampID : CCV_END

 NO MANUAL INTEGRATIONS

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WorkOrder: HS24040798

Longhorn GW Treatment Plant Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

07-Jun-2024

WorkOrder: HS24040798

ALS Environmental
ALS Group USA, Corp
10450 Stancliff Road, Suite 210
Houston, TX 77099
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HS24040798 Longhorn GW Treatment Plant Weekly Samples COVER PAGE

ALS WO# HS24040798

HS24040798 Longhorn GW Treatment Plant Weekly Samples Final

ALS WO# HS24040798

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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May 06, 2024

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

Work Order: **HS24040798**

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

Dear Marcia Olive,

ALS Environmental received 3 sample(s) on Apr 11, 2024 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
Luis.Aguilar

ALS Houston, US Date: 06-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24040798

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24040798-01	LH18/24-SP650_041024	Water		10-Apr-2024 13:00	11-Apr-2024 09:30	☐
HS24040798-02	LH18/24-SP650_041024_BIX	Water		10-Apr-2024 13:00	11-Apr-2024 09:30	☐
HS24040798-03	LH18/24-SP650_041024_AIX	Water		10-Apr-2024 13:00	11-Apr-2024 09:30	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 06-May-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24040798

Work Order Comments

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

WetChemistry by Method E415.1

Batch ID: R465029

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

WetChemistry by Method E350.3

Batch ID: R464850

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

WetChemistry by Method E365.3

Batch ID: R463738

Sample ID: LH18/24-SP650_041024 (HS24040798-01)

- Sample ran at 10xpf due to sample matrix

Sample ID: LH18/24-SP650_041024 (HS24040798-01MS)

- Sample ran at 10xpf due to sample matrix

- The recovery of the Matrix Spike (MS) and/or Matrix Spike Duplicate (MSD) associated with this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS/MSD may be due to sample matrix interference. (Phosphorus, Total Orthophosphate (As P))

Sample ID: LH18/24-SP650_041024 (HS24040798-01MSD)

- Sample ran at 10xpf due to sample matrix

ALS Houston, US Date: 06-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Longhorn GW Treatment Plant Weekly Samples WorkOrder:HS24040798
Sample ID: LH18/24-SP650_041024 Lab ID:HS24040798-01
Collection Date: 10-Apr-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
AMMONIA AS N BY E350.3(ISE)		**Method:E350.3**						Analyst: MM
Nitrogen, Ammonia (As N)	**21**	a	**0.10**	**0.20**	**0.20**	**mg/L**	1	23-Apr-2024 15:10
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**						Analyst: MM
Phosphorus, Total Orthophosphate (As P)	**5.58**	a	**0.100**	**0.250**	**0.250**	**mg/L**	10	11-Apr-2024 14:13
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**39.5**	a	**5.00**	**10.0**	**10.0**	**mg/L**	10	24-Apr-2024 19:41

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

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ALS Houston, US Date: 06-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Longhorn GW Treatment Plant Weekly Samples WorkOrder:HS24040798
Sample ID: LH18/24-SP650_041024_BIX Lab ID:HS24040798-02
Collection Date: 10-Apr-2024 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	16-Apr-2024 19:27

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

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ALS Houston, US Date: 06-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Longhorn GW Treatment Plant Weekly Samples WorkOrder:HS24040798
Sample ID: LH18/24-SP650_041024_AIX Lab ID:HS24040798-03
Collection Date: 10-Apr-2024 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	16-Apr-2024 19:27

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 06-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24040798

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R463738 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS24040798-01	LH18/24-SP650_041024	10 Apr 2024 13:00			11 Apr 2024 14:13	10
Batch ID: R464230 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24040798-02	LH18/24-SP650_041024_BIX	10 Apr 2024 13:00			16 Apr 2024 19:27	1
HS24040798-03	LH18/24-SP650_041024_AIX	10 Apr 2024 13:00			16 Apr 2024 19:27	1
Batch ID: R464850 (0)	**Test Name :** AMMONIA AS N BY E350.3(ISE)				**Matrix:** Water	
HS24040798-01	LH18/24-SP650_041024	10 Apr 2024 13:00			23 Apr 2024 15:10	1
Batch ID: R465029 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Water	
HS24040798-01	LH18/24-SP650_041024	10 Apr 2024 13:00			24 Apr 2024 19:41	10

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ALS Houston, US Date: 06-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24040798

QC BATCH REPORT

Batch ID: R463738 (0) **Instrument:** UV-2450 **Method:** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978

MBLK Sample ID: **MBLK-R463738** Units: **mg/L** Analysis Date: **11-Apr-2024 14:13**
Client ID: Run ID: **UV-2450_463738** SeqNo: **7942142** 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)	0.0250	0.0250								U

LCS Sample ID: **LCS-R463738** Units: **mg/L** Analysis Date: **11-Apr-2024 14:13**
Client ID: Run ID: **UV-2450_463738** SeqNo: **7942141** 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)	0.287	0.0250	0.25	0	115	80 - 120				

MS Sample ID: **HS24040798-01MS** Units: **mg/L** Analysis Date: **11-Apr-2024 14:13**
Client ID: **LH18/24-SP650_041024** Run ID: **UV-2450_463738** SeqNo: **7942137** 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)	6.67	0.250	2.5	5.58	43.6	80 - 120				S

MSD Sample ID: **HS24040798-01MSD** Units: **mg/L** Analysis Date: **11-Apr-2024 14:13**
Client ID: **LH18/24-SP650_041024** Run ID: **UV-2450_463738** SeqNo: **7942136** 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)	6.67	0.250	2.5	5.58	43.6	80 - 120	6.67	0	20	S

The following samples were analyzed in this batch: HS24040798-01

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ALS Houston, US Date: 06-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24040798

QC BATCH REPORT

Batch ID: R464850 (0) **Instrument: WetChem_HS** **Method: AMMONIA AS N BY E350.3(ISE)**

MBLK Sample ID: **MBLK-R464850** Units: **mg/L** Analysis Date: **23-Apr-2024 15:10**
Client ID: Run ID: **WetChem_HS_464850** SeqNo: **7966936** 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)	0.20	0.20								U

LCS Sample ID: **LCS-R464850** Units: **mg/L** Analysis Date: **23-Apr-2024 15:10**
Client ID: Run ID: **WetChem_HS_464850** SeqNo: **7966935** 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)	9.699	0.20	10	0	97.0	80 - 120				

MS Sample ID: **HS24041101-04MS** Units: **mg/L** Analysis Date: **23-Apr-2024 15:10**
Client ID: Run ID: **WetChem_HS_464850** SeqNo: **7966946** 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)	9.388	0.20	10	0.154	92.3	80 - 120				

MSD Sample ID: **HS24041101-04MSD** Units: **mg/L** Analysis Date: **23-Apr-2024 15:10**
Client ID: Run ID: **WetChem_HS_464850** SeqNo: **7966945** 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)	9.671	0.20	10	0.154	95.2	80 - 120	9.388	2.97	20	

The following samples were analyzed in this batch: HS24040798-01

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ALS Houston, US Date: 06-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24040798

QC BATCH REPORT

Batch ID: R465029 (0) **Instrument: TOC_04** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-04242024** Units: **mg/L** Analysis Date: **24-Apr-2024 19:11**
Client ID: Run ID: **TOC_04_465029** SeqNo: **7971655** 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-04242024** Units: **mg/L** Analysis Date: **24-Apr-2024 19:22**
Client ID: Run ID: **TOC_04_465029** SeqNo: **7971656** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.13	1.00	10	0	101	85 - 115				

LCSD Sample ID: **LCSD-04242024** Units: **mg/L** Analysis Date: **24-Apr-2024 19:32**
Client ID: Run ID: **TOC_04_465029** SeqNo: **7971657** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.14	1.00	10	0	101	85 - 115	10.13	0.0987	20	

MS Sample ID: **HS24040803-01MS** Units: **mg/L** Analysis Date: **24-Apr-2024 20:02**
Client ID: Run ID: **TOC_04_465029** SeqNo: **7971660** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	18.79	1.00	10	9.428	93.6	80 - 120				

The following samples were analyzed in this batch: HS24040798-01

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ALS Houston, US Date: 06-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: **HS24040798**

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

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 06-May-24

Sample Receipt Checklist

Work Order ID: HS24040798 **Date/Time Received:** 11-Apr-2024 09:30

Client Name: Bhate Environmental **Received by:** Aytu Tuncer

Completed By: /S/ Jacob Coronado (eSignature) 11-Apr-2024 11:52 (Date/Time) **Reviewed by:** /S/ Luis.Aguilar (eSignature) 11-Apr-2024 22:52 (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):	3.0uc/3.1c	ir31
Cooler(s)/Kit(s):	43655	
Date/Time sample(s) sent to storage:	04/11/2024 1153	

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:

HS24040798

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

CHAIN OF CUSTODY

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

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT WEEKLY SAMPLES**	
Prepared By: Scott Beesinger	P.O. Number BILL to PCI

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: AMMONIA-N	TOTAL ORGANIC CARBON	ORTHO-PHOSPHATE	PERCHLORATE							Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_041024	Water	04/10/24 / 13:00		3	X	X									H2SO4	
LH18/24-SP650_041024	Water	04/10/24 / 13:00		1			X								NONE	
LH18/24–SP650_041024_BIX	Water	04/10/24 / 13:00		1				X							NONE	
LH18/24- SP650_041024_AIX	Water	04/10/24 / 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	04/10/24	13:30									

For Lab Use Only

Received At Lab By:	Date	Time	Airbill No.	Opened By:	Date	Time	Temp of Container	Seal No.	Condition
A.T	4/11/24			9:30					

Remarks:

Cooler# 43655 Temp °C 3.0 BR = 31 CF + 0.1

(Word) S:\1-ces\Forms\Chain of Custody - BiWeekly

RIGHT SOLUTIONS | RIGHT PARTNER

ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

43655

CUSTODY SEAL
Date: 4/12/24 Time: 1330
Name: Scott Beesinger
Company: Battelle

Seal Broken By:
Date: 04/11/24

43655 APR 11 2024

ALS 43655

ORIGIN ID:SGRA (903) 930-8193
SCOTT BEESINGER
APTIM ENVIRONMENTAL & INFASTRUCTURE
1203-B EAST GRAND AVE
RMB 202
MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 02AUG23
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3703
DIMS: 18x16x13 IN

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530-5650
REF: LHAAP 04 - BD 94678 - JG

RMA:

FedEx Express

FedEx
TRK# 0221 6230 3003 4969

THU - 11 APR AA
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US
IAH

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April 15, 2024 Service Request No:E2400362

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24040798

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory April 11, 2024
For your reference, these analyses have been assigned our service request number **E2400362.**

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 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

HKelany

Hussam Kelany
Project Manager

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

Certificate of Analysis

ALS Environmental - Houston 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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Client:	ALS Environmental - US	**Service Request No.:**	E2400362
Project:	HS24040798	**Date Received:**	04/11/24
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 04/11/24.

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:

EQ2400181: 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:**E2400362
Project: HS24040798

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400362-001	LH18/24-SP650_041024_BIX	4/10/2024	1300
E2400362-002	LH18/24-SP650_041024_AIX	4/10/2024	1300

Service Request Summary

Folder #: **E2400362**
Client Name: ALS Environmental - US
Project Name: HS24040798
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: HKELANY
Date Received: 04/11/24
Internal Due Date: 4/15/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400362-001	LH18/24-SP650_041024_BIX	Water	04/10/24 1300	**IV***
E2400362-002	LH18/24-SP650_041024_AIX	Water	04/10/24 1300	**IV***

Service Request Summary

Folder #:	**E2400362**
Client Name:	ALS Environmental - US
Project Name:	HS24040798
Project Number:	
Report To:	Luis Aguilar ALS Environmental - US 10450 Stancliff Rd Suite 210 Houston, TX 77099 USA
Phone Number:	
Cell Number:	
Fax Number:	
E-mail:	luis.aguilar@alsglobal.com

Project Chemist:	Hussam Kelany
Originating Lab:	HOUSTON
Logged By:	HKELANY
Date Received:	04/11/24
Internal Due Date:	4/15/2024
QAP:	LAB QAP
Qualifier Set:	Lab Standard
Formset:	Lab Standard
Merged?:	Y
Report to MDL?:	Y
P.O. Number:	
EDD:	No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved

Location: EHRMS-WIC 4D

Pressure Gas:

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.

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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.

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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_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	TX-C24-00109	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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E2400362 5
ALS Environmental - US
HS24040798

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **25323**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	luis.aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24040798
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24040798-02**	**LH18/24-SP650_041024_BIX**	**Water**	**10 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			12 Apr 2024
2.	**HS24040798-03**	**LH18/24-SP650_041024_AIX**	**Water**	**10 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			12 Apr 2024

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: JC Date/Time: 4/11/24 1152

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

E2400362 5
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HS24040798

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Sample Receipt Checklist

Work Order ID: HS24040798 **Date/Time received:** 11 Apr 2024 09:30

Client name: Bhate Environmental Associates, Inc. **Received by:** Aytu Tuncer

Completed/By: 11 Apr 2024 11:52 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** (Date/Time) (eSignature)

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	COC ID(s):
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): 3.0uc/3.1c ir31

Cooler Information: 1 Cooler(s), 43655

Date/Time sample(s) sent to storage: 04/11/2024 1153

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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SAMPLE ACCEPTANCE POLICY

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

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

- ✓ Intact on outside of cooler, signed and dated

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

The following is required on each COC:

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

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

Sample Integrity (mandatory):

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

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

Temperature Requirement (varies by sample matrix):

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

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

Preparation Information Benchsheets

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Preparation Information Benchsheet

Prep Run#: 436888 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/15/24 08:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400362-001	LH18/24-SP650_041024_BIX	.01	6850/ClO4 DOD			Water	10mL	
2	E2400362-002	LH18/24-SP650_041024_AIX	.01	6850/ClO4 DOD			Water	10mL	
3	EQ2400181-01	MB		6850/ClO4 DOD			Liquid	10mL	
4	EQ2400181-02	LCS		6850/ClO4 DOD			Liquid	10mL	
5	EQ2400181-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
6	EQ2400181-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400181-02 10.00µL EQ2400181-03 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400362-001 100.00µL E2400362-002 100.00µL EQ2400181-01 100.00µL EQ2400181-02 100.00µL EQ2400181-03 100.00µL EQ2400181-04 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400181-04 20.00µL

Preparation Steps

Step: Preparation
Started: 4/15/24 08:00
Finished: 4/15/24 09:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Extracts Examined
Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400362
Project:	HS24040798	**Date Collected:**	4/10/24 1300
Sample Matrix:	Water	**Date Received:**	4/11/24
Sample Name:	LH18/24-SP650_041024_BIX	**Units:**	µg/L
Lab Code:	E2400362-001	**Basis:**	NA

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

Analytical Method: 6850

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	4/15/24	4/15/24 10:04	436888	837855	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400362
Project:	HS24040798	**Date Collected:**	4/10/24 1300
Sample Matrix:	Water	**Date Received:**	4/11/24
Sample Name:	LH18/24-SP650_041024_AIX	**Units:**	µg/L
Lab Code:	E2400362-002	**Basis:**	NA

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

Analytical Method: 6850

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	4/15/24	4/15/24 10:10	436888	837855	

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400362
Project:	HS24040798	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400181-01	**Basis:**	NA

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

Analytical Method: 6850

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	4/15/24	4/15/24 09:42	436888	837855	

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Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040798
Sample Matrix: Water

Service Request: E2400362
Date Analyzed: 4/15/24

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

Analytical Method: 6850
Prep Method:

Units: µg/L
Basis: NA

Extraction Lot: 436888

	Lab Control Sample EQ2400181-02			Duplicate Lab Control Sample EQ2400181-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.118	0.100	118	0.105	0.100	105	84 - 119	12	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:**	E2400362
Project:	HS24040798	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400181-02	**Basis:**	NA

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

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.118**		0.100	0.0500	0.0250	1	4/15/24	4/15/24 09:48	436888	837855	

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400362
Project:	HS24040798	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400181-03	**Basis:**	NA

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

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.105**		0.100	0.0500	0.0250	1	4/15/24	4/15/24 09:53	436888	837855	

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HS24040798 NIT-AMM_W E350.3-ISE WETCHEM

ALS WO# HS24040798

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Nit – Amm W 350.3 ISE

Logbook **32521**

Ion Selective Electrode Logbook

Analyst: MM				Date: 4/23/24 1510	
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F					
Probe Calibration Date: 4/23/24	Cal Std ID: S2510200424			Probe ID: NH3-10	
Std Level		mV	Conc., mg/L:	Sodium Thiosulfate ID:	
STD 1 (mg/L): 0.2		135	0.199	Std Level	mV / Conc., mg/L:
STD 2 (mg/L): 1		95.1	1.004	STD 4 (mg/L): 10	91.3 / 10.07
STD 3 (mg/L): 3		72.2	5.006	STD 5 (mg/L): 50	0.1e / 45.584
LSC / MS Spike ID: 3110460212				ICAL Date & Slope: 4/23/24 98.7 %, -58.2	
ICV Cal STD ID: 3251020004					
DPD Reagent ID: 3001029774					

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/–)	Comments
CCV		50	50		9.381			
CCB					0.007			
MBLK					0.007			
LCS					9.699			
0434-1					0.846		-vt	
1093-1					0.777			
1176-1					1.023			
0798-1					20.506			
0822-1					1.154			
1274-1					18.334			
1351-01					1.057			
1018-1					1.026			
CCV					10.299			
CCB					0.008			
1101-4					0.154			
1128-1					0.111		+vt	Recheck
1128-2					9.765			
1128-3					0.831			
1128-4					0.376			
~~1127~~ 1130-1					0.200			Amm 4
1130-2					0.163			
1130-3					0.474			
1130-4					0.270			
CCV					10.401			
CCB					0.009			

Batch ID:	Reported By	Reviewed By:
464850		HB

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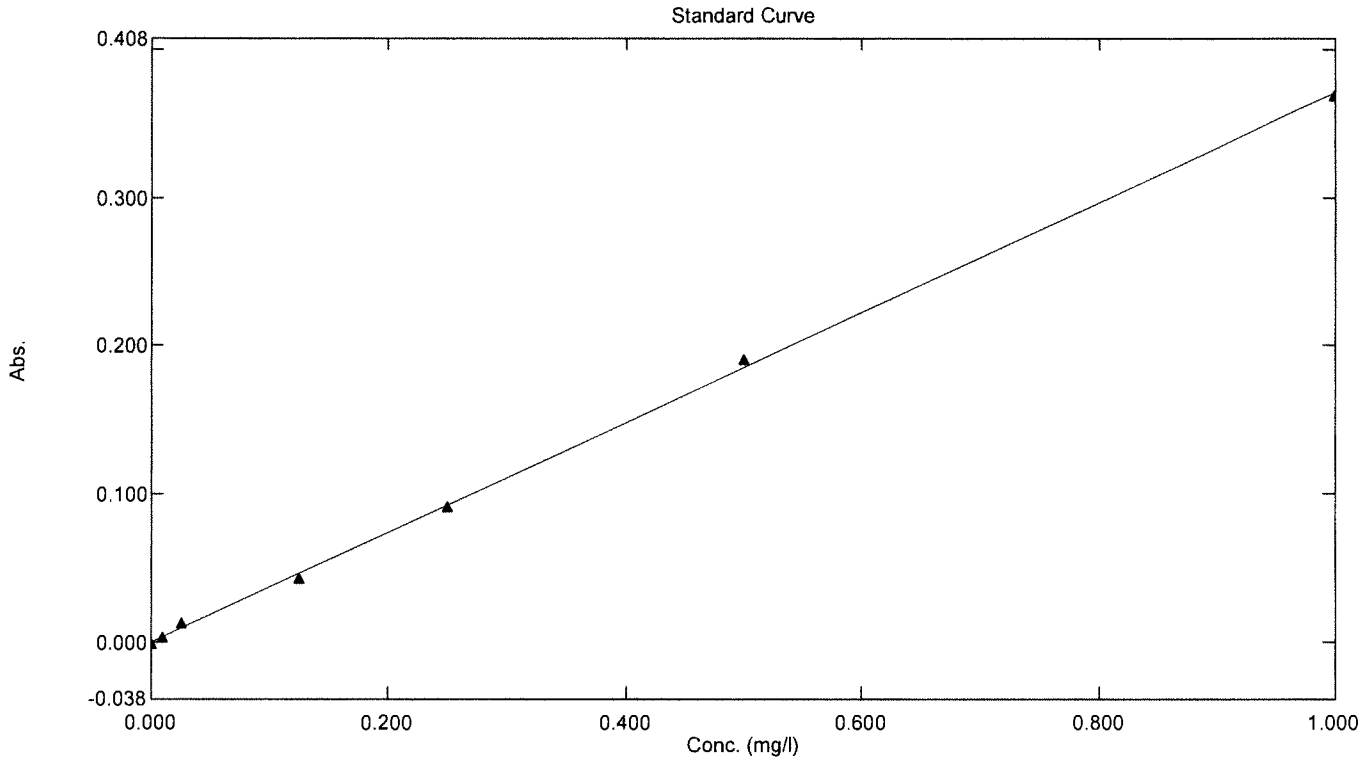
HS24040798 Wetchem P-ORTHO

ALS WO# HS24040798

Standard Table Report

04/17/2024 06:25:22 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\04112024P_ORTHO .pho



Correlation Coefficient r2 = 0.99941

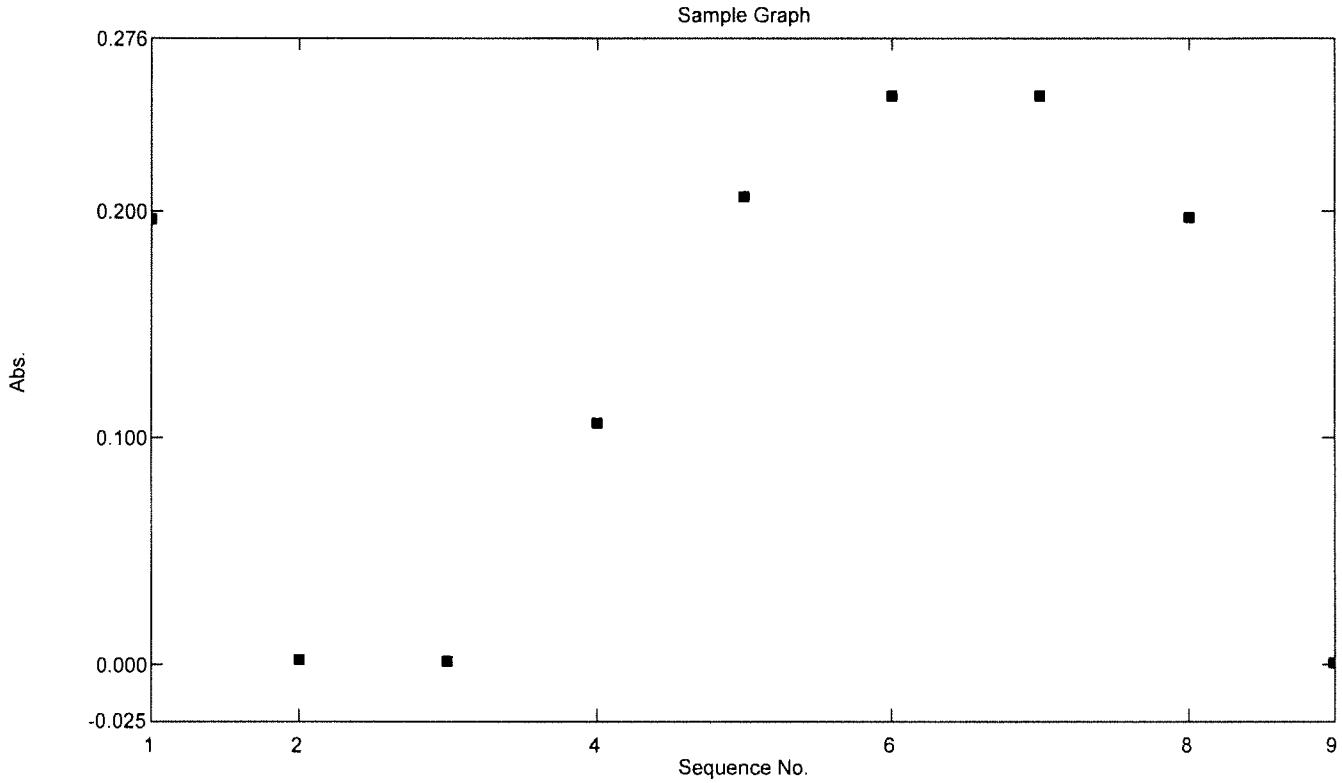
Standard Table

	Sample ID	Type	Ex	Conc	WL650.0	Wgt.Factor	Comments
1	STD1	Standard		0.000	-0.001	1.000	
2	STD2	Standard		0.010	0.003	1.000	
3	STD3	Standard		0.025	0.013	1.000	
4	STD4	Standard		0.125	0.043	1.000	
5	STD5	Standard		0.250	0.091	1.000	
6	STD6	Standard		0.500	0.191	1.000	
7	STD7	Standard		1.000	0.369	1.000	06/06/2024
8							

Sample Table Report

04/17/2024 06:25:28 PM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\04112024P_ORTHO .pho



Sample Table

	Sample ID	Date	Time	Conc	WL650.	Comments
1	CCV	04/11/2024	12:44:25 PM	0.530	0.196	
2	CCB	04/11/2024	12:45:00 PM	0.004	0.002	
3	MBLK	04/11/2024	12:45:02 PM	0.004	0.001	
4	LCS	04/11/2024	12:45:40 PM	0.287	0.106	
5	HS24040798.01	04/11/2024	12:49:56 PM	0.558	0.207	PF10X
6	HS24040798.01MS	04/11/2024	12:50:20 PM	0.677	0.251	PF10X
7	HS24040798.01MSD	04/11/2024	12:50:23 PM	0.677	0.251	PF10X
8	CCV1	04/11/2024	12:55:02 PM	0.533	0.198	
9	CCB1	04/11/2024	12:55:17 PM	0.000	0.000	
10						

HS24040798 WetChem TOC CAL_TABLE

ALS WO# HS24040798

C:\TOC-L\Data\2024_02_01_005.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Dilutio	Result	Notes
1	Standard	NPOC	CALIBRATION	3100608307	02.01.2024.CAL.	1.000		
2	Unknown	NPOC	ICV	3100607917	02.01.2024.CAL.	1.000	NPOC:9.379mg/L	
3	Unknown	NPOC	ICB		02.01.2024.CAL.	1.000	NPOC:0.09710mg/L	

	Status	Date / Time	Vial
1	Completed	2/2/2024 12:	1, 2, 3, 4, 5,
2	Completed	2/2/2024 12:	8
3	Completed	2/2/2024 12:	9

HS24040798 WetChem TOC INJECT

ALS WO# HS24040798

TOC-Control L Report

2024_04_24_002.tlx

Instr.Information

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

Sample

Sample Name:	CCV
Sample ID:	3100608307
Origin:	02.01.2024.CELL.cal
Status	Completed
Chk. Result	

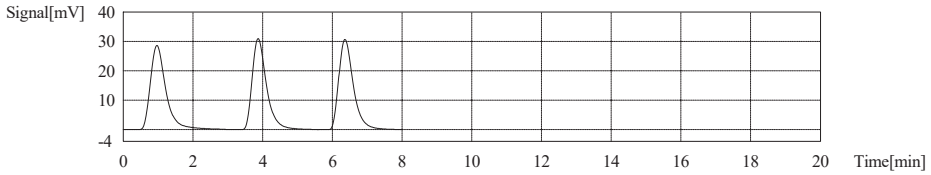
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.93mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.98	25.86mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 6:46:24 PM
2	88.17	25.91mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 6:49:28 PM
3	88.53	26.02mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 6:52:39 PM

Mean Area	88.23
Mean Conc.	25.93mg/L



Sample

Sample Name:	CCB
Sample ID:	
Origin:	02.01.2024.CELL.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1936mg/L

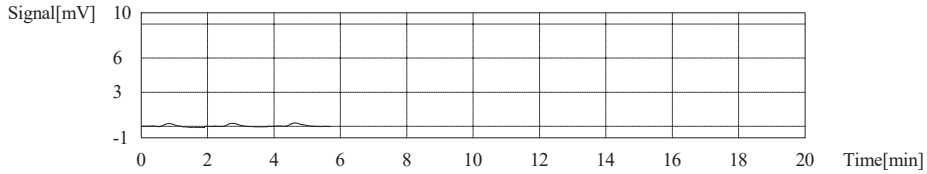
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6923	0.2035mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 6:56:34 PM
2	0.6429	0.1890mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 6:59:03 PM
3	0.6412	0.1885mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:01:32 PM

TOC-Control L Report

Mean Area 0.6588
Mean Conc. 0.1936mg/L



Sample

Sample Name: MBLK-04242024
Sample ID:
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

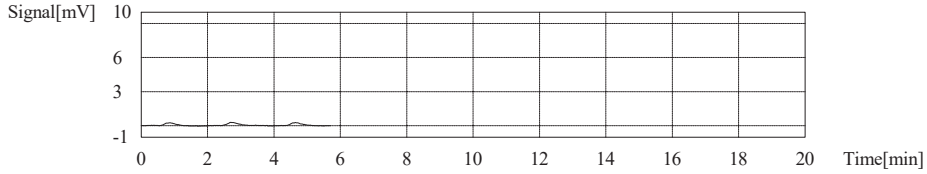
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1761mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.5897	0.1733mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:06:37 PM
2	0.6008	0.1766mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:09:06 PM
3	0.6075	0.1785mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:11:35 PM

Mean Area 0.5993
Mean Conc. 0.1761mg/L



Sample

Sample Name: LCS-04242024
Sample ID: 3100607917
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.13mg/L

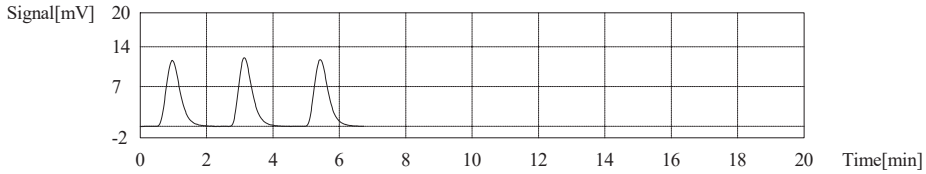
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.15	10.04mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:16:59 PM
2	34.62	10.18mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:19:50 PM
3	34.59	10.17mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:22:40 PM

TOC-Control L Report

Mean Area 34.45
Mean Conc. 10.13mg/L



Sample

Sample Name: LCSD-04242024
Sample ID:
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

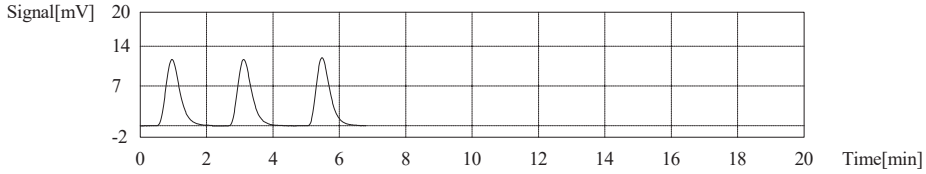
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.14mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.44	10.12mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:27:00 PM
2	34.55	10.15mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:29:58 PM
3	34.48	10.13mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:32:48 PM

Mean Area 34.49
Mean Conc. 10.14mg/L



Sample

Sample Name: HS24040798-01DF10
Sample ID:
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.946mg/L

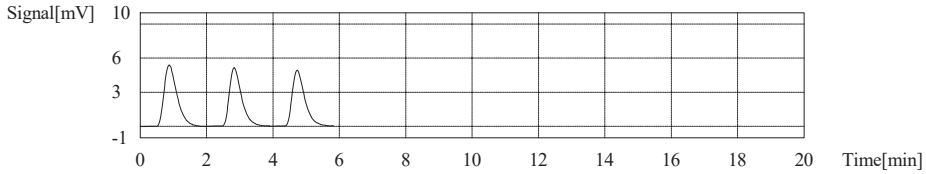
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.61	4.294mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:36:52 PM
2	13.00	3.821mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:39:21 PM
3	12.67	3.724mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:41:53 PM

TOC-Control L Report

Mean Area 13.43
Mean Conc. 3.946mg/L



Sample

Sample Name: HS24040803-01
Sample ID:
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

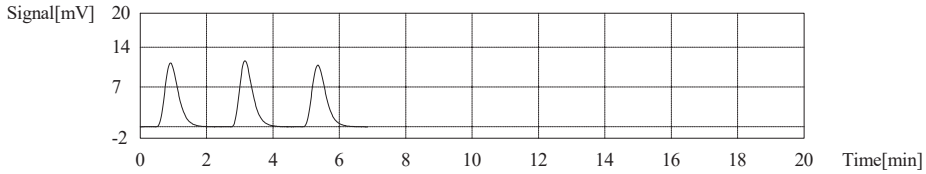
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.428mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	32.23	9.473mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:47:12 PM
2	32.02	9.411mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:49:57 PM
3	31.98	9.399mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:52:58 PM

Mean Area 32.08
Mean Conc. 9.428mg/L



Sample

Sample Name: HS24040803-01MS
Sample ID:
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:18.79mg/L

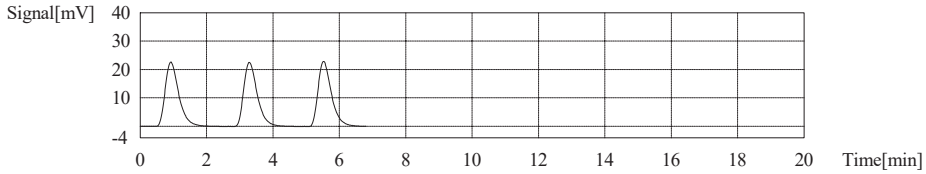
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	64.17	18.86mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 7:57:23 PM
2	63.67	18.71mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 8:00:12 PM
3	63.98	18.80mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 8:02:59 PM

TOC-Control L Report

Mean Area 63.94
Mean Conc. 18.79mg/L



Sample

Sample Name: CCV
Sample ID: 3100608307
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

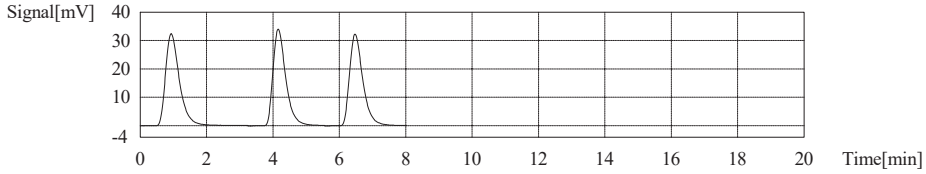
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.73mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	93.56	27.50mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 8:59:42 PM
2	89.98	26.45mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 9:02:35 PM
3	89.32	26.25mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 9:05:36 PM

Mean Area 90.95
Mean Conc. 26.73mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3835mg/L

1. Det

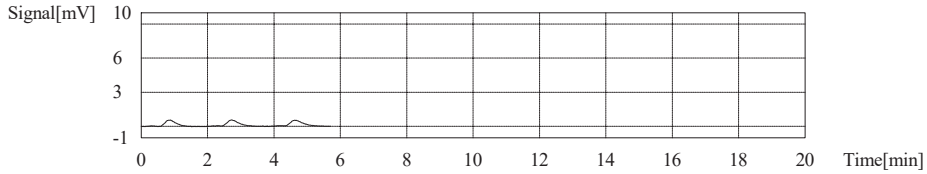
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.349	0.3965mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 9:09:30 PM
2	1.249	0.3671mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 9:11:59 PM
3	1.317	0.3871mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 9:14:28 PM

TOC-Control L Report

2024_04_24_002.tlx

Mean Area	1.305
Mean Conc.	0.3835mg/L



HS24040798 WetChem TOC INJECT_CAL

ALS WO# HS24040798

TOC-Control L Report

2024_02_01_005.tlx

Instr.Information

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

Cal. Curve

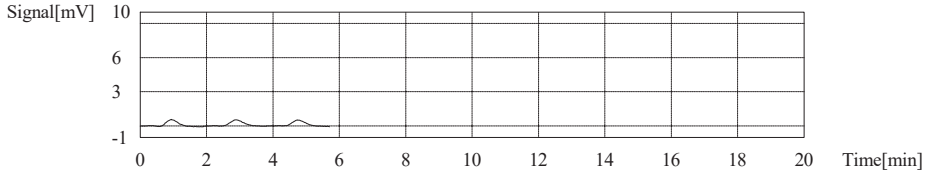
Sample Name:	CALIBRATION
Sample ID:	3100608307
Cal. Curve:	02.01.2024.CAL.2024_02_01_22_31_34.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.574	50uL	1.000	*******		2/1/2024 10:39:00 PM
2	1.588	50uL	1.000	*******		2/1/2024 10:41:09 PM
3	1.382	50uL	1.000	*******		2/1/2024 10:43:18 PM

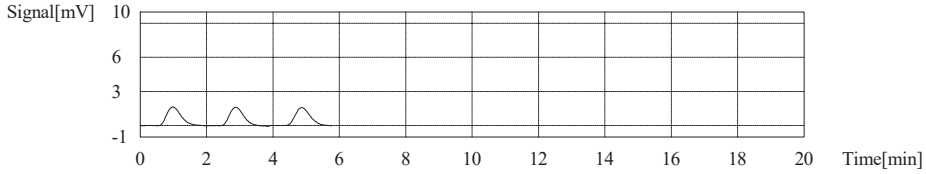
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	1.515



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.970	50uL	1.000	*******		2/1/2024 10:50:50 PM
2	4.989	50uL	1.000	*******		2/1/2024 10:53:03 PM
3	5.007	50uL	1.000	*******		2/1/2024 10:55:12 PM

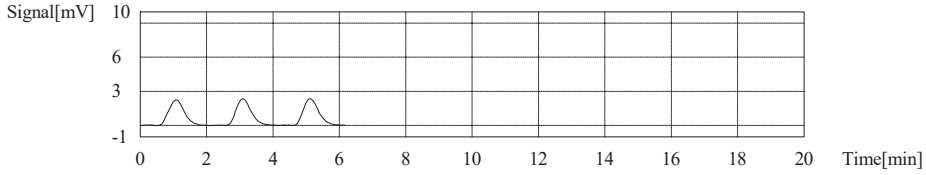
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	4.989



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.505	50uL	1.000	*******		2/1/2024 11:02:55 PM
2	7.316	50uL	1.000	*******		2/1/2024 11:05:09 PM
3	7.532	50uL	1.000	*******		2/1/2024 11:07:29 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	7.451



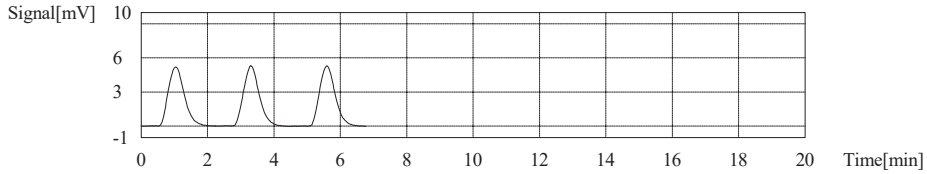
TOC-Control L Report

2024_02_01_005.tlx

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	17.63	50uL	1.000	*******		2/1/2024 11:15:22 PM
2	17.64	50uL	1.000	*******		2/1/2024 11:17:53 PM
3	17.72	50uL	1.000	*******		2/1/2024 11:20:21 PM

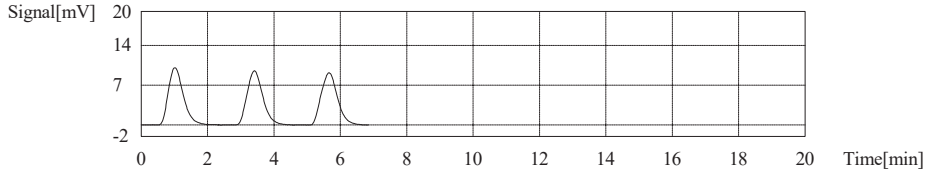
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 90.00sec
Mean Area 17.66



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	32.20	50uL	1.000	*******		2/1/2024 11:28:20 PM
2	31.65	50uL	1.000	*******		2/1/2024 11:30:49 PM
3	31.90	50uL	1.000	*******		2/1/2024 11:33:20 PM

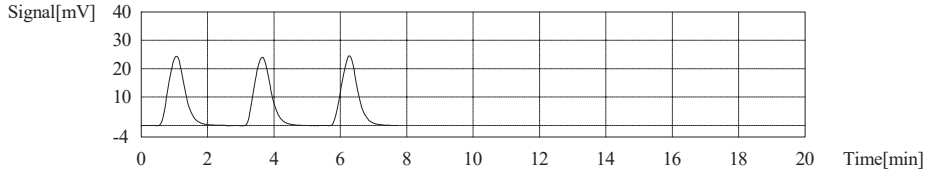
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 90.00sec
Mean Area 31.92



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	84.13	50uL	1.000	*******		2/1/2024 11:41:32 PM
2	84.19	50uL	1.000	*******		2/1/2024 11:44:24 PM
3	83.72	50uL	1.000	*******		2/1/2024 11:47:12 PM

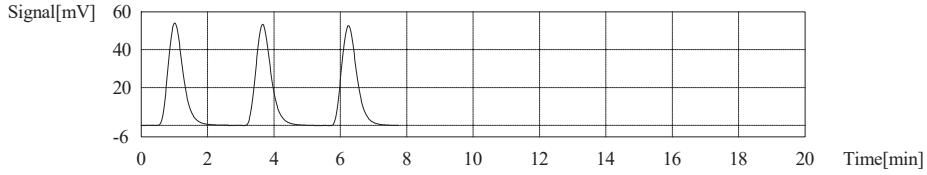
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 90.00sec
Mean Area 84.01



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	171.5	50uL	1.000	*******		2/1/2024 11:55:28 PM
2	171.6	50uL	1.000	*******		2/1/2024 11:58:18 PM
3	170.1	50uL	1.000	*******		2/2/2024 12:01:04 AM

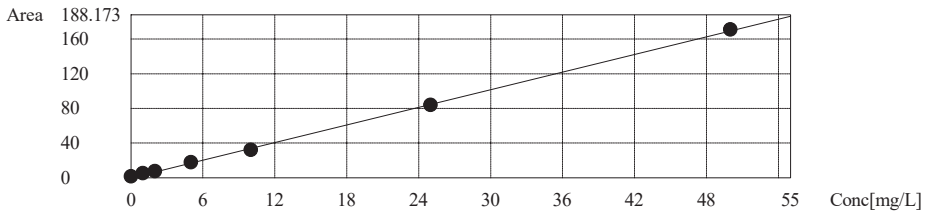
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 90.00sec
Mean Area 171.1



TOC-Control L Report

2024_02_01_005.tlx

Slope:	3.391
Intercept	0.000
r^2	0.9995
r	0.9998
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607917
Origin:	02.01.2024.CAL.cal
Status	Completed
Chk. Result	

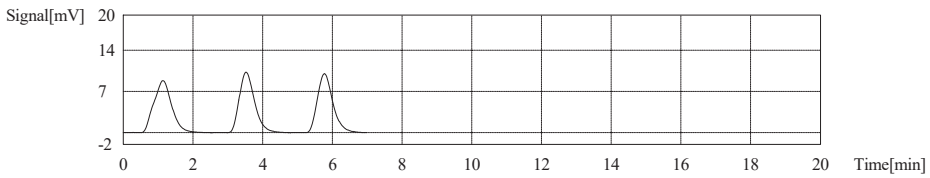
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.379mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	31.97	9.428mg/L	50uL	1.000		02.01.2024.CAL.2024_02_01_22_31_34.cal	2/2/2024 12:09:13 AM
2	31.76	9.366mg/L	50uL	1.000		02.01.2024.CAL.2024_02_01_22_31_34.cal	2/2/2024 12:11:42 AM
3	31.68	9.342mg/L	50uL	1.000		02.01.2024.CAL.2024_02_01_22_31_34.cal	2/2/2024 12:14:10 AM

Mean Area	31.80
Mean Conc.	9.379mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	02.01.2024.CAL.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.09710mg/L

1. Det

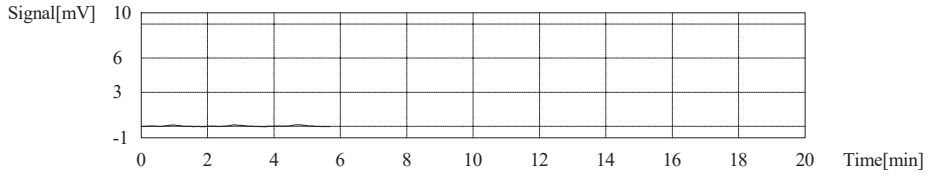
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2845	0.08390mg/L	50uL	1.000		02.01.2024.CAL.2024_02_01_22_31_34.cal	2/2/2024 12:21:44 AM
2	0.3319	0.09787mg/L	50uL	1.000		02.01.2024.CAL.2024_02_01_22_31_34.cal	2/2/2024 12:23:52 AM
3	0.3714	0.1095mg/L	50uL	1.000		02.01.2024.CAL.2024_02_01_22_31_34.cal	2/2/2024 12:25:59 AM

TOC-Control L Report

2024_02_01_005.tlx

Mean Area	0.3293
Mean Conc.	0.09710mg/L



HS24040798 WetChem TOC TABLE

ALS WO# HS24040798

C:\TOC-L\Data\2024_04_24_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Result	Notes	Status
1	Unknown	NPOC	CCV	3100608307	02.01.2024.	NPOC:25.93mg/L		Completed
2	Unknown	NPOC	CCB		02.01.2024.	NPOC:0.1936mg/L		Completed
3	Unknown	NPOC	MBLK-04242024		02.01.2024.	NPOC:0.1761mg/L		Completed
4	Unknown	NPOC	LCS-04242024	3100607917	02.01.2024.	NPOC:10.13mg/L		Completed
5	Unknown	NPOC	LCSD-04242024		02.01.2024.	NPOC:10.14mg/L		Completed
6	Unknown	NPOC	HS24040798-01DF10		02.01.2024.	NPOC:3.946mg/L		Completed
7	Unknown	NPOC	HS24040803-01		02.01.2024.	NPOC:9.428mg/L		Completed
8	Unknown	NPOC	HS24040803-01MS		02.01.2024.	NPOC:18.79mg/L		Completed
9	Unknown	NPOC	HS24040803-02		02.01.2024.	NPOC:8.124mg/L		Completed
10	Unknown	NPOC	HS24040803-03		02.01.2024.	NPOC:15.47mg/L		Completed
11	Unknown	NPOC	HS24040914-01		02.01.2024.	NPOC:72.67mg/L		Completed
12	Unknown	NPOC	HS24040914-02		02.01.2024.	NPOC:86.28mg/L		Completed
13	Unknown	NPOC	CCV	3100608307	02.01.2024.	NPOC:26.73mg/L		Completed
14	Unknown	NPOC	CCB		02.01.2024.	NPOC:0.3835mg/L		Completed
15	Unknown	NPOC	HS24040914-03		02.01.2024.	NPOC:46.89mg/L		Completed
16	Unknown	NPOC	HS24040914-04		02.01.2024.	NPOC:8.638mg/L		Completed
17	Unknown	NPOC	HS24040914-05		02.01.2024.	NPOC:7.351mg/L		Completed
18	Unknown	NPOC	HS24040914-07		02.01.2024.	NPOC:46.42mg/L		Completed
19	Unknown	NPOC	CCV	3100608307	02.01.2024.	NPOC:26.34mg/L		Completed
20	Unknown	NPOC	CCB		02.01.2024.	NPOC:0.3380mg/L		Completed
21	Unknown	NPOC	MBLK-04242024		02.01.2024.	NPOC:0.2132mg/L		Completed
22	Unknown	NPOC	LCS-04242024	3100607917	02.01.2024.	NPOC:10.14mg/L		Completed
23	Unknown	NPOC	LCSD-04242024		02.01.2024.	NPOC:10.10mg/L		Completed
24	Unknown	NPOC	HS24041274-01		02.01.2024.	NPOC:17.88mg/L		Completed
25	Unknown	NPOC	HS24041274-01MS		02.01.2024.	NPOC:24.84mg/L		Completed
26	Unknown	NPOC	HS24041294-01		02.01.2024.	NPOC:67.28mg/L		Completed
27	Unknown	NPOC	HS24041294-02		02.01.2024.	NPOC:76.88mg/L		Completed
28	Unknown	NPOC	HS24041294-03		02.01.2024.	NPOC:78.89mg/L		Completed
29	Unknown	NPOC	HS24041294-04		02.01.2024.	NPOC:73.50mg/L		Completed
30	Unknown	NPOC	HS24041294-05		02.01.2024.	NPOC:92.94mg/L		Completed
31	Unknown	NPOC	CCV	3100608307	02.01.2024.	NPOC:27.12mg/L		Completed
32	Unknown	NPOC	CCB		02.01.2024.	NPOC:0.4638mg/L		Completed
33	Unknown	NPOC	HS24041294-06		02.01.2024.	NPOC:97.59mg/L		Completed
34	Unknown	NPOC	HS24041294-07		02.01.2024.	NPOC:119.8mg/L		Completed
35	Unknown	NPOC	HS24041294-08		02.01.2024.	NPOC:68.26mg/L		Completed
36	Unknown	NPOC	HS24041294-10		02.01.2024.	NPOC:65.23mg/L		Completed
37	Unknown	NPOC	CCV	3100608307	02.01.2024.	NPOC:26.15mg/L		Completed
38	Unknown	NPOC	CCB		02.01.2024.	NPOC:0.3531mg/L		Completed
39	Unknown	NPOC	MBLK-04242024		02.01.2024.	NPOC:0.2915mg/L		Completed
40	Unknown	NPOC	LCS-04242024	3100607917	02.01.2024.	NPOC:9.766mg/L		Completed
41	Unknown	NPOC	LCSD-04242024		02.01.2024.	NPOC:9.889mg/L		Completed
42	Unknown	NPOC	HS24041294-11		02.01.2024.	NPOC:26.67mg/L		Completed
43	Unknown	NPOC	HS24041294-11MS		02.01.2024.	NPOC:29.31mg/L		Completed
44	Unknown	NPOC	HS24041294-12		02.01.2024.	NPOC:74.69mg/L		Completed
45	Unknown	NPOC	HS24041294-13		02.01.2024.	NPOC:96.48mg/L		Completed
46	Unknown	NPOC	HS24041324-01		02.01.2024.	NPOC:47.84mg/L		Completed
47	Unknown	NPOC	HS24040783-01		02.01.2024.	NPOC:32.68mg/L		Completed
48	Unknown	NPOC	HS24040783-03		02.01.2024.	NPOC:29.22mg/L		Completed
49	Unknown	NPOC	CCV	3100608307	02.01.2024.	NPOC:25.71mg/L		Completed
50	Unknown	NPOC	CCB		02.01.2024.	NPOC:0.3000mg/L		Completed
51	Unknown	NPOC	HS24040815-03		02.01.2024.	NPOC:9.570mg/L		Completed
52	Unknown	NPOC	HS24040815-04		02.01.2024.	NPOC:9.756mg/L		Completed
53	Unknown	NPOC	HS24040853-03		02.01.2024.	NPOC:6.712mg/L		Completed

	Date / Time	Vial
1	4/24/2024 6:	1
2	4/24/2024 7:	2
3	4/24/2024 7:	3
4	4/24/2024 7:	4
5	4/24/2024 7:	5
6	4/24/2024 7:	6
7	4/24/2024 7:	7
8	4/24/2024 8:	8
9	4/24/2024 8:	9
10	4/24/2024 8:	10
11	4/24/2024 8:	11
12	4/24/2024 8:	12
13	4/24/2024 9:	1
14	4/24/2024 9:	2
15	4/24/2024 9:	13
16	4/24/2024 9:	14
17	4/24/2024 9:	15
18	4/24/2024 1	16
19	4/24/2024 1	1
20	4/24/2024 1	2
21	4/24/2024 1	3
22	4/24/2024 1	4
23	4/24/2024 1	5
24	4/24/2024 1	17
25	4/24/2024 1	18
26	4/24/2024 1	19
27	4/24/2024 1	20
28	4/25/2024 1	21
29	4/25/2024 1	22
30	4/25/2024 1	23
31	4/25/2024 1	24
32	4/25/2024 1	25
33	4/25/2024 1	26
34	4/25/2024 1:	27
35	4/25/2024 1:	28
36	4/25/2024 1:	29
37	4/25/2024 1:	24
38	4/25/2024 2:	25
39	4/25/2024 2:	3
40	4/25/2024 2:	4
41	4/25/2024 2:	5
42	4/25/2024 3:	30
43	4/25/2024 3:	31
44	4/25/2024 3:	32
45	4/25/2024 3:	33
46	4/25/2024 3:	34
47	4/25/2024 4:	35
48	4/25/2024 4:	36
49	4/25/2024 4:	24
50	4/25/2024 4:	25
51	4/25/2024 5:	37
52	4/25/2024 5:	38
53	4/25/2024 5:	39

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	Type	Analysis	Sample Name	Sample ID	Origin	Result	Notes	Status
54	Unknown	NPOC	CCV	3100608307	02.01.2024.	NPOC:25.60mg/L		Completed
55	Unknown	NPOC	CCB		02.01.2024.	NPOC:0.2229mg/L		Completed
56	Unknown	NPOC	CCV	3100608307	TOC_W 906	NPOC:25.22mg/L		Completed
57	Unknown	NPOC	CCB		TOC_W 906	NPOC:0.2795mg/L		Completed
58	Unknown	NPOC	MBLK-04242024		TOC_W 906	NPOC:0.2213mg/L		Completed
59	Unknown	NPOC	LCS-04242024	3100607917	TOC_W 906	NPOC:0.05548mg/L		Completed
60	Unknown	NPOC	LCSD-04242024		TOC_W 906	NPOC:9.911mg/L		Completed
61	Unknown	NPOC	HS24041538-14		TOC_W 906	NPOC:157.9mg/L		Completed
62	Unknown	NPOC	HS24041538-14MS		TOC_W 906	NPOC:142.7mg/L		Completed
63	Unknown	NPOC	HS24041538-15		TOC_W 906	NPOC:132.5mg/L		Completed
64	Unknown	NPOC	HS24041538-16		TOC_W 906	NPOC:163.1mg/L		Completed
65	Unknown	NPOC	HS24041538-17		TOC_W 906	NPOC:241.2mg/L		Completed
66	Unknown	NPOC	HS24040801-07		TOC_W 906	NPOC:40.90mg/L		Completed
67	Unknown	NPOC	CCV	3100608307	TOC_W 906	NPOC:26.12mg/L		Completed
68	Unknown	NPOC	CCB		TOC_W 906	NPOC:0.5846mg/L		Completed

	Date / Time	Vial
54	4/25/2024 5:	41
55	4/25/2024 5:	42
56	4/25/2024 6:	41
57	4/25/2024 6:	42
58	4/25/2024 6:	3
59	4/25/2024 6:	4
60	4/25/2024 6:	5
61	4/25/2024 7:	43
62	4/25/2024 7:	44
63	4/25/2024 7:	45
64	4/25/2024 7:	46
65	4/25/2024 8:	47
66	4/25/2024 8:	48
67	4/25/2024 8:	41
68	4/25/2024 8:	42

HS24040798 E2400362 PERCH Level IV Report

ALS WO# HS24040798

April 15, 2024 Service Request No:E2400362

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24040798

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory April 11, 2024
For your reference, these analyses have been assigned our service request number **E2400362.**

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 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

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

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400362
Project:	HS24040798	**Date Received:**	04/11/24
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 04/11/24.

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:

EQ2400181: 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:**E2400362
Project: HS24040798

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400362-001	LH18/24-SP650_041024_BIX	4/10/2024	1300
E2400362-002	LH18/24-SP650_041024_AIX	4/10/2024	1300

Service Request Summary

Folder #: **E2400362**
Client Name: ALS Environmental - US
Project Name: HS24040798
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: HKELANY
Date Received: 04/11/24
Internal Due Date: 4/15/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4D
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400362-001	LH18/24-SP650_041024_BIX	Water	04/10/24 1300	**IV***
E2400362-002	LH18/24-SP650_041024_AIX	Water	04/10/24 1300	**IV***

Service Request Summary

Folder #: **E2400362**
Client Name: ALS Environmental - US
Project Name: HS24040798
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: HKELANY
Date Received: 04/11/24
Internal Due Date: 4/15/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4D
Pressure Gas:

Data Qualifiers

Lab Standard

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

Data Qualifiers

Lab Standard

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

ALS Laboratory Group

Acronyms

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

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

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	TX-C24-00109	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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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E2400362 5
ALS Environmental - US
HS24040798

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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:** **25323**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	luis.aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24040798
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24040798-02**	**LH18/24-SP650_041024_BIX**	**Water**	**10 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			12 Apr 2024
2.	**HS24040798-03**	**LH18/24-SP650_041024_AIX**	**Water**	**10 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			12 Apr 2024

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

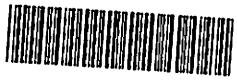
QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: JC Date/Time: 4/11/24 1152

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

E2400362 5
ALS Environmental - US
HS24040798



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Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
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Sample Receipt Checklist

Work Order ID: HS24040798 **Date/Time received:** 11 Apr 2024 09:30

Client name: Bhate Environmental Associates, Inc. **Received by:** Aytu Tuncer

Completed/By: 11 Apr 2024 11:52 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** _____ (Date/Time) _____ (eSignature)

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	COC ID(s):
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): 3.0uc/3.1c ir31

Cooler Information: 1 Cooler(s), 43655

Date/Time sample(s) sent to storage: 04/11/2024 1153

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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SAMPLE ACCEPTANCE POLICY

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

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

- ✓ Intact on outside of cooler, signed and dated

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

The following is required on each COC:

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

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

Sample Integrity (mandatory):

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

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

Temperature Requirement (varies by sample matrix):

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

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

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 436888 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/15/24 08:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400362-001	LH18/24-SP650_041024_BIX	.01	6850/ClO4 DOD			Water	10mL	
2	E2400362-002	LH18/24-SP650_041024_AIX	.01	6850/ClO4 DOD			Water	10mL	
3	EQ2400181-01	MB		6850/ClO4 DOD			Liquid	10mL	
4	EQ2400181-02	LCS		6850/ClO4 DOD			Liquid	10mL	
5	EQ2400181-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
6	EQ2400181-04	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400181-02 10.00µL EQ2400181-03 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400362-001 100.00µL E2400362-002 100.00µL EQ2400181-01 100.00µL EQ2400181-02 100.00µL EQ2400181-03 100.00µL EQ2400181-04 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400181-04 20.00µL

Preparation Steps

Step: Preparation
Started: 4/15/24 08:00
Finished: 4/15/24 09:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400362
Project:	HS24040798	**Date Collected:**	4/10/24 1300
Sample Matrix:	Water	**Date Received:**	4/11/24
Sample Name:	LH18/24-SP650_041024_BIX	**Units:**	µg/L
Lab Code:	E2400362-001	**Basis:**	NA

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

Analytical Method: 6850

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	4/15/24	4/15/24 10:04	436888	837855	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400362
Project:	HS24040798	**Date Collected:**	4/10/24 1300
Sample Matrix:	Water	**Date Received:**	4/11/24
Sample Name:	LH18/24-SP650_041024_AIX	**Units:**	µg/L
Lab Code:	E2400362-002	**Basis:**	NA

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

Analytical Method: 6850

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	4/15/24	4/15/24 10:10	436888	837855	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400362
Project:	HS24040798	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400181-01	**Basis:**	NA

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

Analytical Method: 6850

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	4/15/24	4/15/24 09:42	436888	837855	

Accuracy & Precision

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10450 Stancliff Rd., Suite 210, Houston TX 77099
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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040798
Sample Matrix: Water

Service Request: E2400362
Date Analyzed: 4/15/24

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

Analytical Method: 6850
Prep Method:

Units: µg/L
Basis: NA

Extraction Lot: 436888

	Lab Control Sample EQ2400181-02			Duplicate Lab Control Sample EQ2400181-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.118	0.100	118	0.105	0.100	105	84 - 119	12	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:**	E2400362
Project:	HS24040798	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400181-02	**Basis:**	NA

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

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.118**		0.100	0.0500	0.0250	1	4/15/24	4/15/24 09:48	436888	837855	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400362
Project:	HS24040798	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400181-03	**Basis:**	NA

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

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.105**		0.100	0.0500	0.0250	1	4/15/24	4/15/24 09:53	436888	837855	

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

835280

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240328-001	IB	Perchlorate6850c.lcm	1x		3/28/2024 18:50
2	20240328-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x	233572	3/28/2024 18:56
3	20240328-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x	233571	3/28/2024 19:01
4	20240328-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x	233570	3/28/2024 19:07
5	20240328-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x	233569	3/28/2024 19:12
6	20240328-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x	233568	3/28/2024 19:18
7	20240328-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x	233567	3/28/2024 19:23
8	20240328-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x	233566	3/28/2024 19:29
9	20240328-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x	233564	3/28/2024 19:34
10	20240328-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x	233563	3/28/2024 19:40
11	20240328-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x	233562	3/28/2024 19:46
12	20240328-012	PerchlorateICV	Perchlorate6850c.lcm	1x	230380	3/28/2024 19:51
13	20240328-013	IB	Perchlorate6850c.lcm	1x		3/28/2024 19:57
14	20240328-014	LODV	Perchlorate6850c.lcm	1x		3/28/2024 20:08
15	20240328-015	EQ2400151-04ICS	Perchlorate6850c.lcm	1x		3/28/2024 20:13
16	20240328-016	CCV	Perchlorate6850c.lcm	1x		3/28/2024 20:19
17	20240328-017	IB	Perchlorate6850c.lcm	1x		3/28/2024 20:24
18	20240328-018	EQ2400151-01MB	Perchlorate6850c.lcm	1x		3/28/2024 20:30
19	20240328-019	EQ2400151-02LCS	Perchlorate6850c.lcm	1x		3/28/2024 20:35
20	20240328-020	EQ2400151-03DLCS	Perchlorate6850c.lcm	1x		3/28/2024 20:41
21	20240328-022	E2400265-001	Perchlorate6850c.lcm	1x		3/28/2024 20:52
22	20240328-023	E2400268-001	Perchlorate6850c.lcm	1x		3/28/2024 20:58
23	20240328-024	E2400268-002	Perchlorate6850c.lcm	1x		3/28/2024 21:03
24	20240328-025	E2400271-001	Perchlorate6850c.lcm	1x		3/28/2024 21:09
25	20240328-026	E2400271-002	Perchlorate6850c.lcm	1x		3/28/2024 21:14
26	20240328-027	E2400296-001	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:20
27	20240328-028	CCV	Perchlorate6850c.lcm	1x		3/28/2024 21:25
28	20240328-029	IB	Perchlorate6850c.lcm	1x		3/28/2024 21:31
29	20240328-030	E2400296-002	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:36
30	20240328-031	E2400296-003	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:42
31	20240328-032	CCV	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:47
32	20240328-033	IB	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:53

Initial Calibration - Detailed Report

Calibration ID: EC2400005 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400005-01	Perchlorate ICAL 1	20240328-002	03/28/2024 18:56
02	EC2400005-02	Perchlorate ICAL 2	20240328-003	03/28/2024 19:01
03	EC2400005-03	Perchlorate ICAL 3	20240328-004	03/28/2024 19:07
04	EC2400005-04	Perchlorate ICAL 4	20240328-005	03/28/2024 19:12
05	EC2400005-05	Perchlorate ICAL 5	20240328-006	03/28/2024 19:18
06	EC2400005-06	Perchlorate ICAL 6	20240328-007	03/28/2024 19:23
07	EC2400005-07	Perchlorate ICAL 7	20240328-008	03/28/2024 19:29
08	EC2400005-08	Perchlorate ICAL 8	20240328-009	03/28/2024 19:34
09	EC2400005-09	Perchlorate ICAL 9	20240328-010	03/28/2024 19:40
10	EC2400005-10	Perchlorate ICAL 10	20240328-011	03/28/2024 19:46

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

Perchlorate **Average RF** **RSD = 6.135** **Average RF = 0.1549**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1349	02	0.5000	0.1452	03	0.7000	0.1473	04	1.0000	0.1539
05	2.0000	0.1596	06	5.0000	0.1596	07	10.0000	0.1635	08	20.0000	0.1613
09	30.0000	0.1629	10	50.0000	0.161						

Analyte

Perchlorate RSE = 6.14

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0871	-12.9	02	0.5000	0.469	-6.3	03	0.7000	0.666	-4.9
04	1.0000	0.994	-0.6	05	2.0000	2.06	3.0	06	5.0000	5.15	3.0
07	10.0000	10.6	5.6	08	20.0000	20.8	4.1	09	30.0000	31.5	5.1
10	50.0000	52.0	3.9								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400005	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240328-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400005-11	T	Average RF	10	10.397	ng/mL	4.0	<= 15

Insight Report

Printed at 3/29/2024 12:40:08 PM

IB

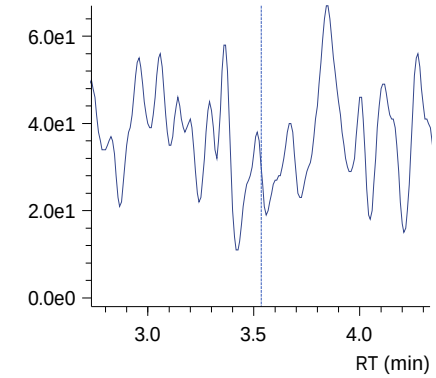
Sample ID: IB
Date Acquired: 3/28/2024 7:57:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	174347	----	ng/mL	101.00 >85.00	0.00	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.516	174347	174347	1.0000	ng/mL	----	----	

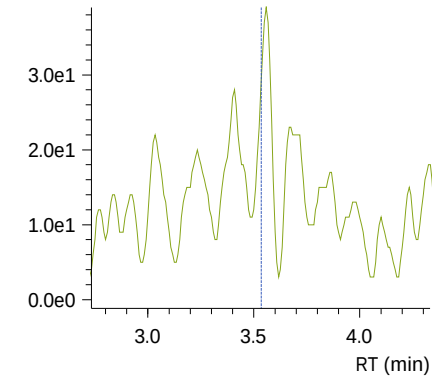
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 6.70e1



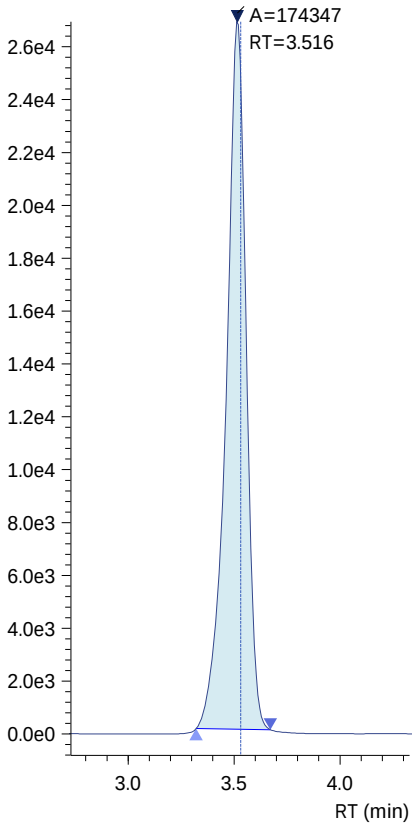
R1 101.00>85.00 (-) 3.90e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.69e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Method File: I:\LCMS01\DATA\20240328\20240328.lcm
Project File: I:\LCMS01\DATA\20240328\20240328.damlp

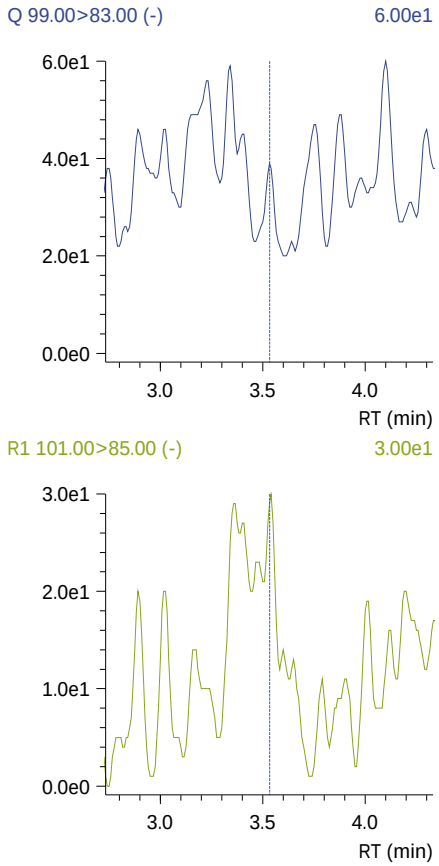
IB

Sample ID: IB
Date Acquired: 3/28/2024 6:50:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | 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)	----	----	242889	----	ng/mL	101.00 >85.00	0.00	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.523	242889	242889	1.0000	ng/mL	----	----	

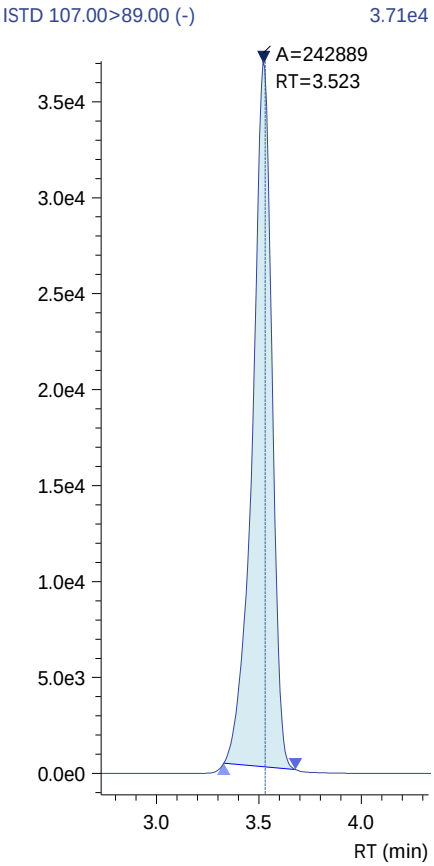
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

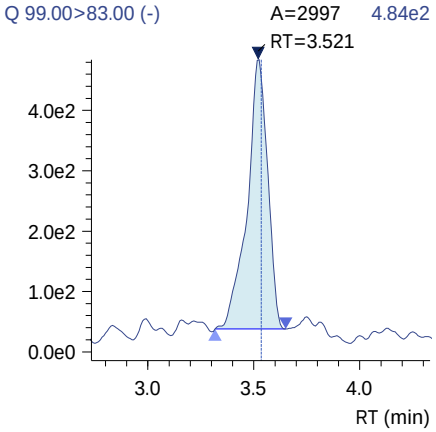
Perchlorate ICAL 1

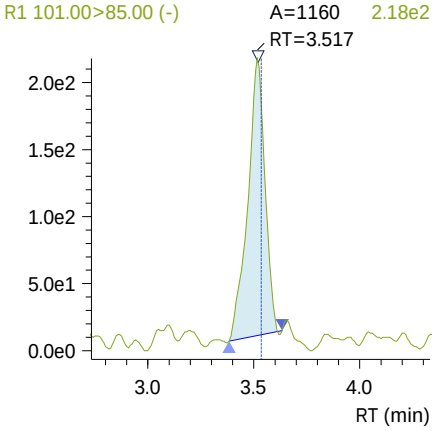
Sample ID: Perchlorate ICAL 1
Date Acquired: 3/28/2024 6:56:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	2997	222150	0.0871	ng/mL	101.00 >85.00	38.69	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.521	222150	222150	1.0000	ng/mL	----	----	

Perchlorate

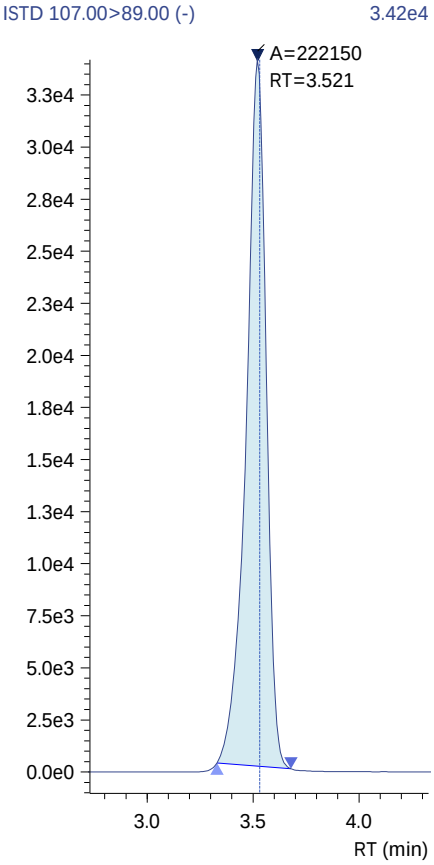
Conc 0.0871
R#1 38.69 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

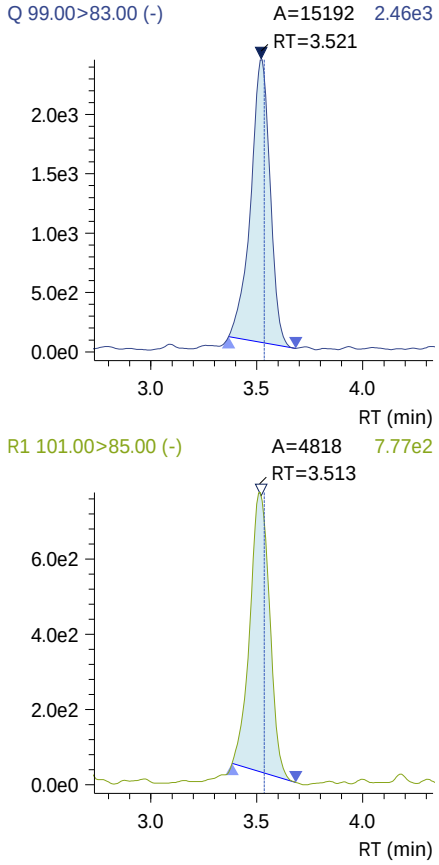
Perchlorate ICAL 2

Sample ID: Perchlorate ICAL 2
Date Acquired: 3/28/2024 7:01:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	15192	209260	0.4686	ng/mL	101.00 >85.00	31.71	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.519	209260	209260	1.0000	ng/mL	----	----	

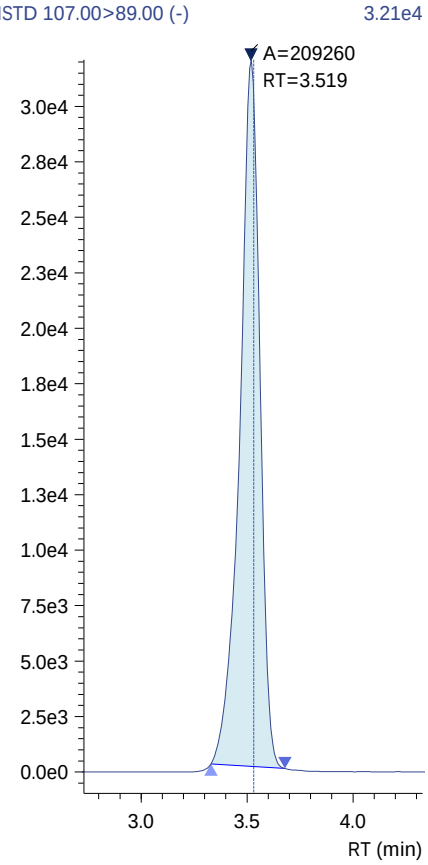
Perchlorate

Conc 0.4686
R#1 31.71 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

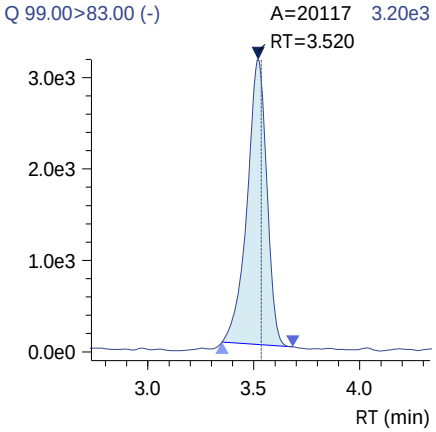
Perchlorate ICAL 3

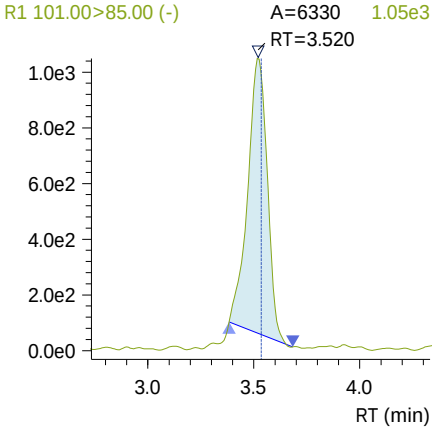
Sample ID: Perchlorate ICAL 3
Date Acquired: 3/28/2024 7:07:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.520	20117	195056	0.6657	ng/mL	101.00 >85.00	31.46	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.518	195056	195056	1.0000	ng/mL	----	----	

Perchlorate

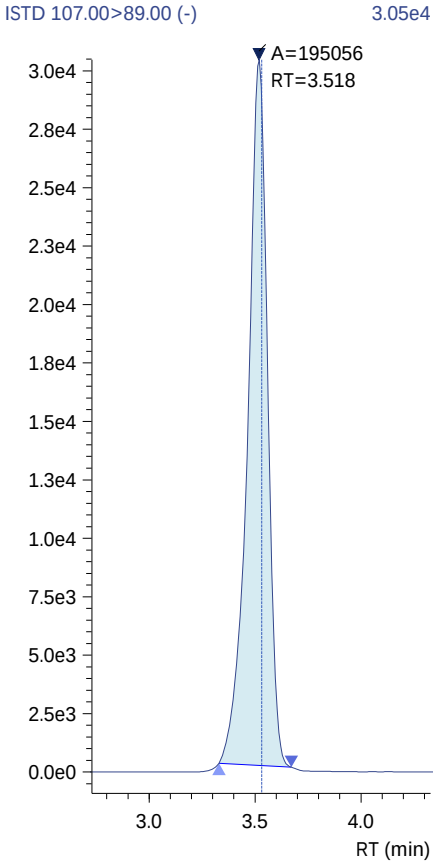
Conc 0.6657
R#1 31.46 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

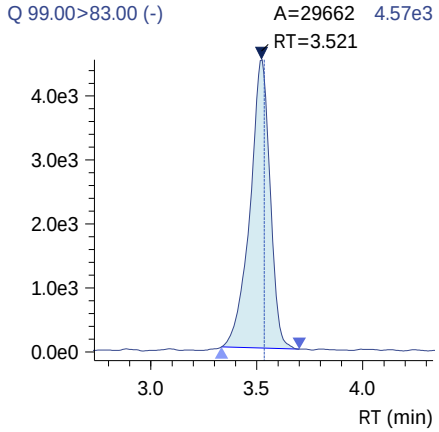
Perchlorate ICAL 4

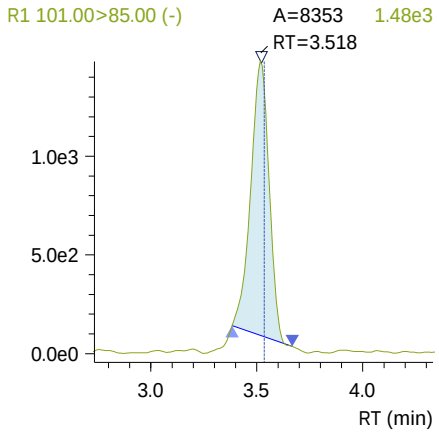
Sample ID: Perchlorate ICAL 4
Date Acquired: 3/28/2024 7:12:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	29662	192682	0.9936	ng/mL	101.00 >85.00	28.16	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.517	192682	192682	1.0000	ng/mL	----	----	

Perchlorate

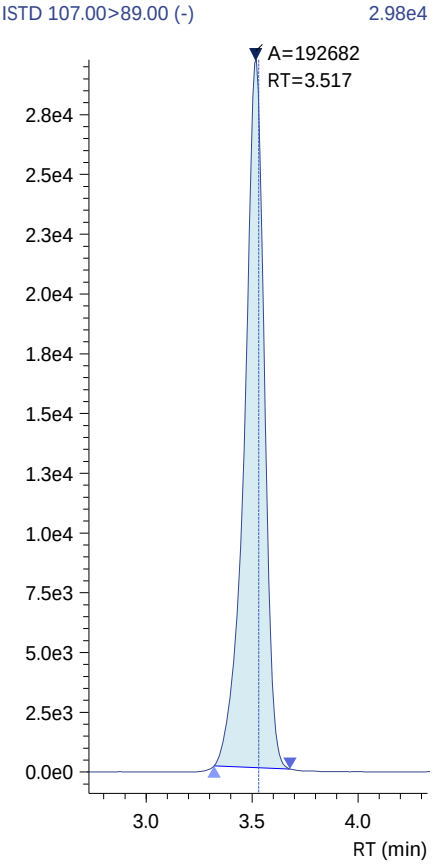
Conc 0.9936
R#1 28.16 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

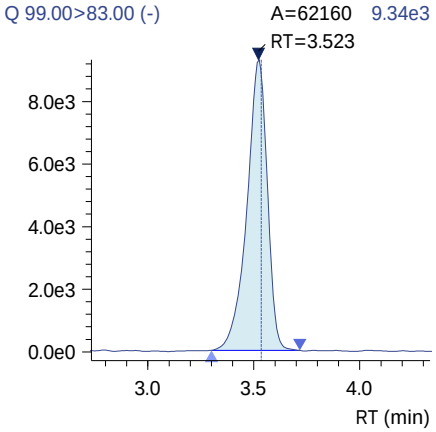
Perchlorate ICAL 5

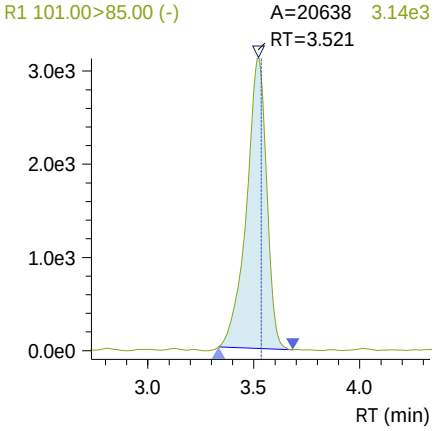
Sample ID: Perchlorate ICAL 5
Date Acquired: 3/28/2024 7:18:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.523	62160	194691	2.0607	ng/mL	101.00 >85.00	33.20	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.518	194691	194691	1.0000	ng/mL	----	----	

Perchlorate

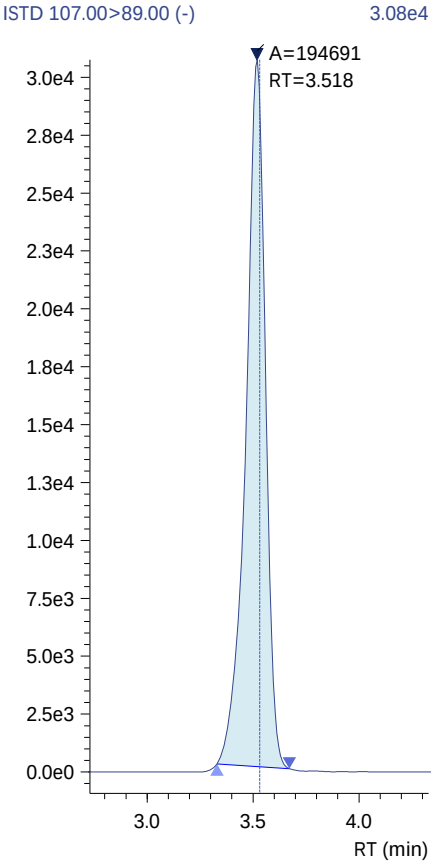
Conc 2.0607
R#1 33.20 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 6

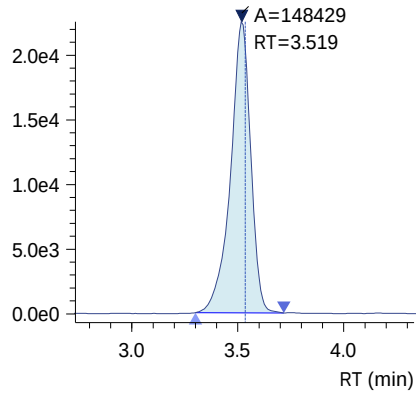
Sample ID: Perchlorate ICAL 6
Date Acquired: 3/28/2024 7:23:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	148429	185979	5.1511	ng/mL	101.00 >85.00	33.89	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.517	185979	185979	1.0000	ng/mL	----	----	

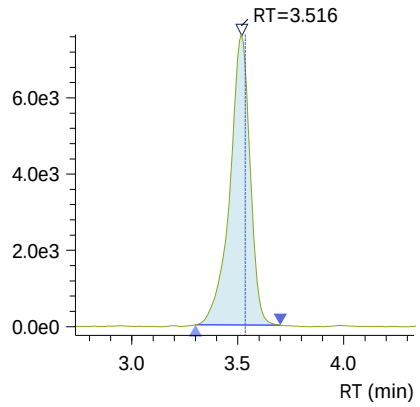
Perchlorate

Conc 5.1511
R#1 33.89 (34.10)

Q 99.00>83.00 (-) 2.26e4



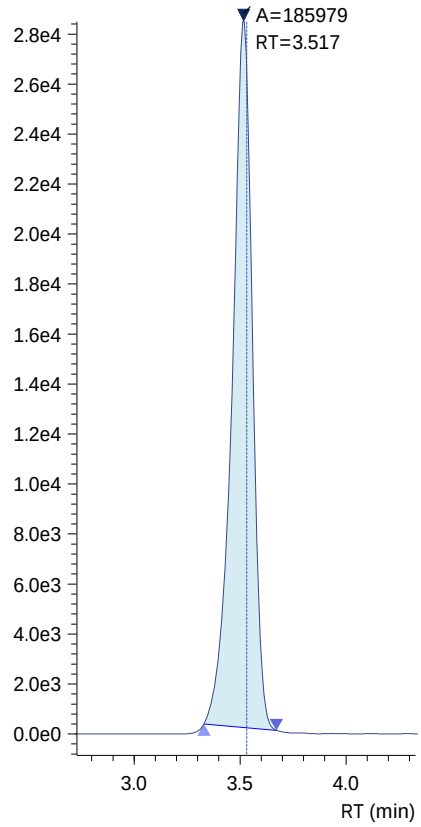
R1 101.00>85.00 (-) A=50306 7.66e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.85e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

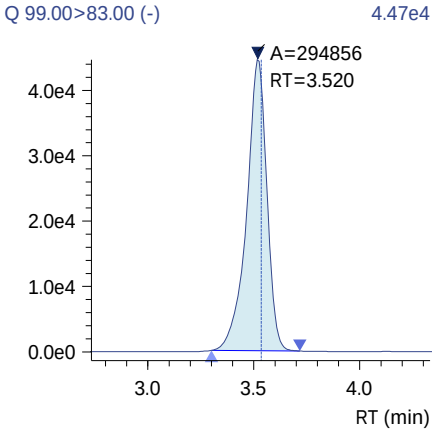
Perchlorate ICAL 7

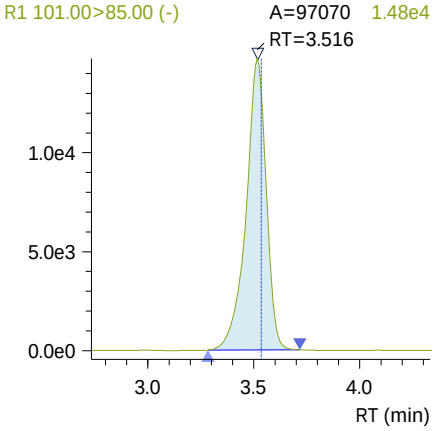
Sample ID: Perchlorate ICAL 7
Date Acquired: 3/28/2024 7:29:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.520	294856	180287	10.5 558	ng/mL	101.00 >85.00	32.92	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.516	180287	180287	1.0000	ng/mL	----	----	

Perchlorate

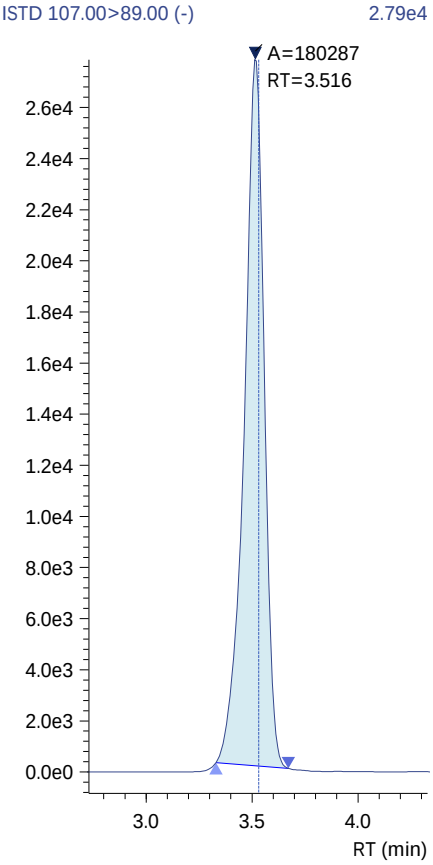
Conc 10.5558
R#1 32.92 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 8

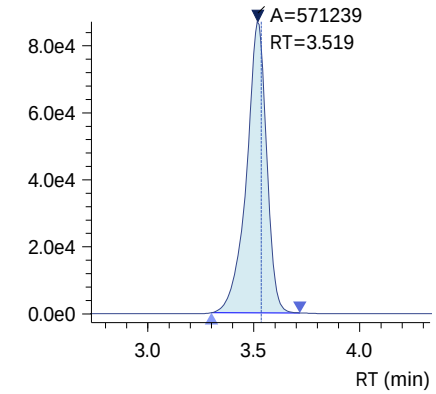
Sample ID: Perchlorate ICAL 8
Date Acquired: 3/28/2024 7:34:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	571239	177068	20.8	ng/mL	101.00	33.33	22.32
					220		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.515	177068	177068	1.0000	ng/mL	----	----	

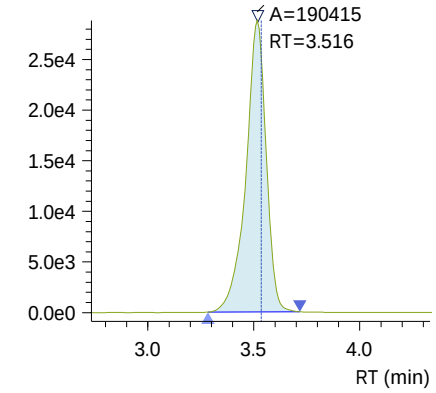
Perchlorate

Conc 20.8220
R#1 33.33 (34.10)

Q 99.00>83.00 (-) 8.72e4



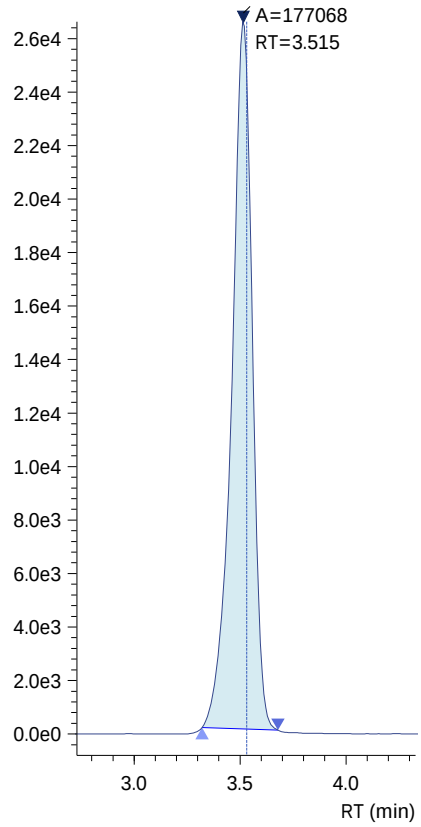
R1 101.00>85.00 (-) 2.89e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.66e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 9

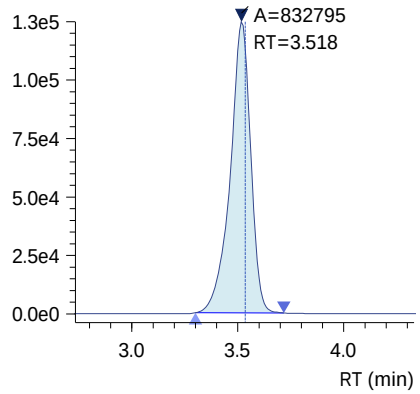
Sample ID: Perchlorate ICAL 9
Date Acquired: 3/28/2024 7:40:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.518	832795	170448	31.5	ng/mL	101.00	33.17	22.32
					348		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.515	170448	170448	1.0000	ng/mL	----	----	

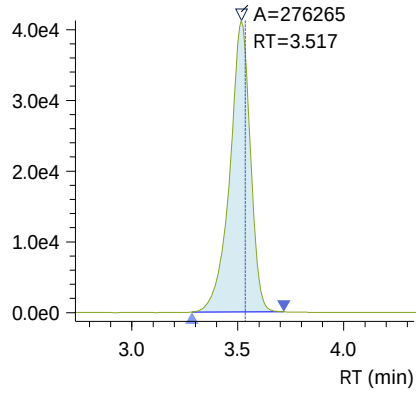
Perchlorate

Conc 31.5348
R#1 33.17 (34.10)

Q 99.00>83.00 (-) 1.25e5



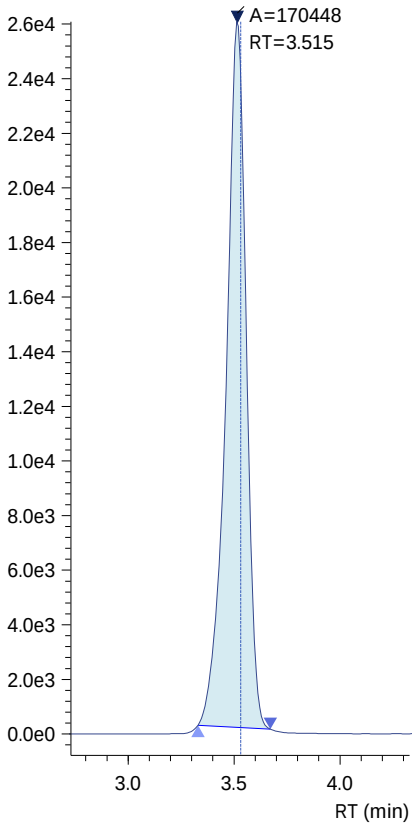
R1 101.00>85.00 (-) 4.13e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.61e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 10

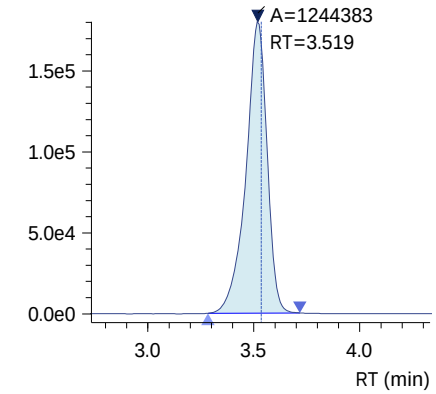
Sample ID: Perchlorate ICAL 10
Date Acquired: 3/28/2024 7:46:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	12443	154566	51.9	ng/mL	101.00	33.24	22.32
			83		618		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.516	154566	154566	1.0000	ng/mL	----	----	

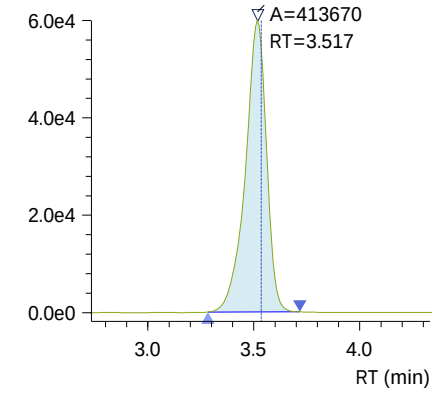
Perchlorate

Conc 51.9618
R#1 33.24 (34.10)

Q 99.00>83.00 (-) 1.80e5



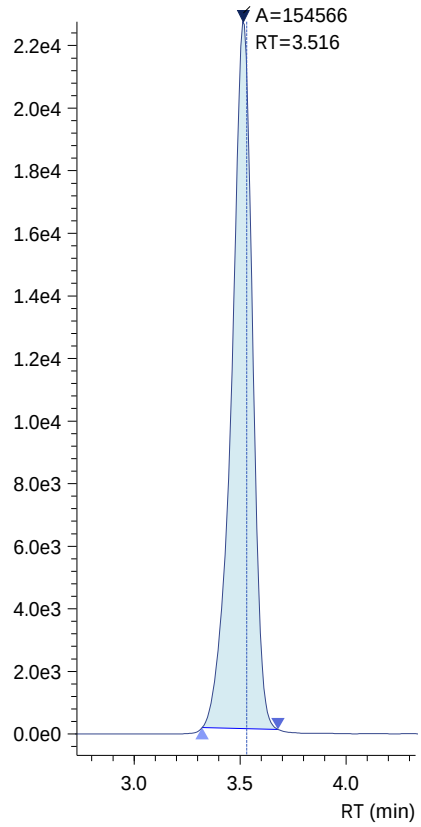
R1 101.00>85.00 (-) 6.00e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.28e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

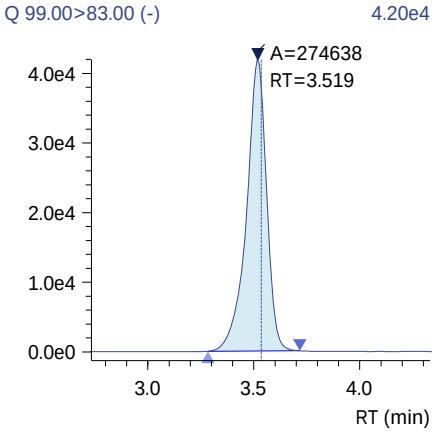
PerchlorateICV

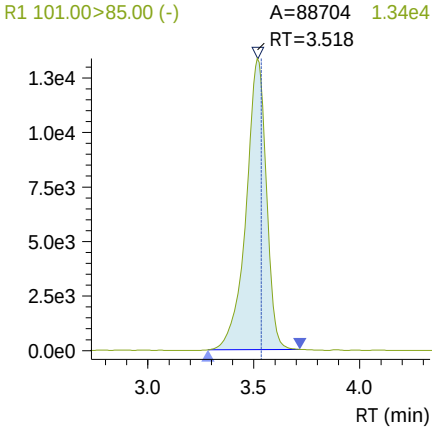
Sample ID: PerchlorateICV
Date Acquired: 3/28/2024 7:51:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	274638	170488	10.3971	ng/mL	101.00 >85.00	32.30	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.515	170488	170488	1.0000	ng/mL	----	----	

Perchlorate

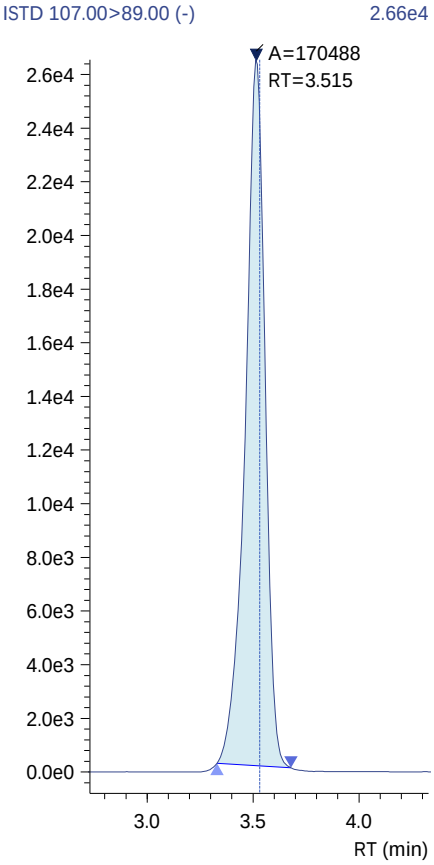
Conc 10.3971
R#1 32.30 (34.10)





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

837866

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240415-001	IB	Perchlorate6850c.lcm	1x		4/15/2024 7:53
2	20240415-002	IB	Perchlorate6850c.lcm	1x		4/15/2024 8:44
3	20240415-003	LODV	Perchlorate6850c.lcm	1x		4/15/2024 8:50
4	20240415-004	ICS	Perchlorate6850c.lcm	1x		4/15/2024 8:56
5	20240415-005	CCV	Perchlorate6850c.lcm	1x		4/15/2024 9:01
6	20240415-006	IB	Perchlorate6850c.lcm	1x		4/15/2024 9:07
7	20240415-007	E2400362-001	Perchlorate6850c.lcm	1x	DNU Screen data	4/15/2024 9:23
8	20240415-008	E2400362-002	Perchlorate6850c.lcm	1x	DNU Screen data	4/15/2024 9:29
9	20240415-009	EQ2400181-01MB	Perchlorate6850c.lcm	1x		4/15/2024 9:42
10	20240415-010	EQ2400181-02LCS	Perchlorate6850c.lcm	1x		4/15/2024 9:48
11	20240415-011	EQ2400181-03DLCS	Perchlorate6850c.lcm	1x		4/15/2024 9:53
12	20240415-012	EQ2400181-04ICS	Perchlorate6850c.lcm	1x		4/15/2024 9:59
13	20240415-013	E2400362-001	Perchlorate6850c.lcm	1x		4/15/2024 10:04
14	20240415-014	E2400362-002	Perchlorate6850c.lcm	1x		4/15/2024 10:10
15	20240415-015	CCV	Perchlorate6850c.lcm	1x		4/15/2024 10:46
16	20240415-016	IB	Perchlorate6850c.lcm	1x		4/15/2024 10:52

837866

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400362
Project:	HS24040798	**Date Analyzed:**	4/15/24 09:01

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

File ID:	I:\LCMS01\DATA\20240415\20240415-005	**Lab Code:**	EQ2400182-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	837855
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400182-01	126,213	3.53
Method Blank	EQ2400181-01	130,964	3.53
Lab Control Sample	EQ2400181-02	127,984	3.53
Duplicate Lab Control Sample	EQ2400181-03	134,095	3.54
LH18/24-SP650_041024_BIX	E2400362-001	142,133	3.54
LH18/24-SP650_041024_AIX	E2400362-002	147,938	3.54

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:**	E2400362
Project:	HS24040798	**Date Analyzed:**	4/15/24 10:46

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

File ID:	I:\LCMS01\DATA\20240415\20240415-015	**Lab Code:**	EQ2400182-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	837855
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400182-02	127,520	3.54

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: HS24040798

Service Request: E2400362
Date Analyzed: 4/15/24

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\20240415\20240415-005

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 837855
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.0	0.1549	0.1552	0.2	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24040798

Service Request: E2400362
Date Analyzed: 4/15/24

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\20240415\20240415-015

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 837855
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1549	0.1564	0.9	NA	± 15 %	Average RF

Insight Report

Printed at 4/15/2024 12:57:33 PM

IB

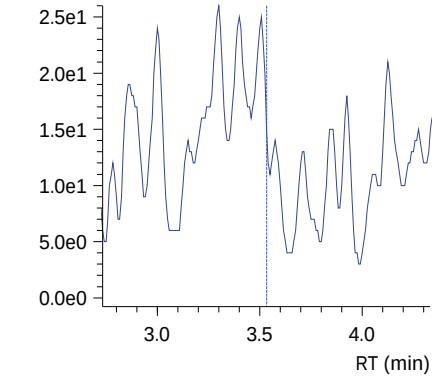
Sample ID: IB
Date Acquired: 4/15/2024 10:52:20 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-016.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	141025	----	ng/mL	101.00 >85.00	0.00	22.32 -42.64
Sodium Perchlorate-18O4_IS	Auto	3.535	141025	141025	1.0000	ng/mL	----	----	

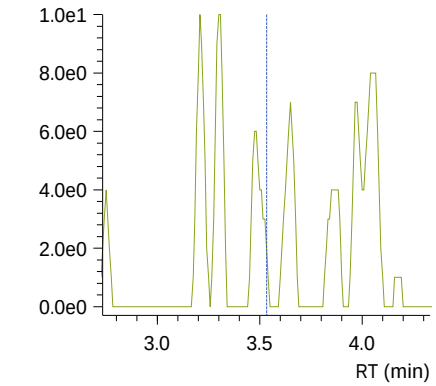
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.60e1



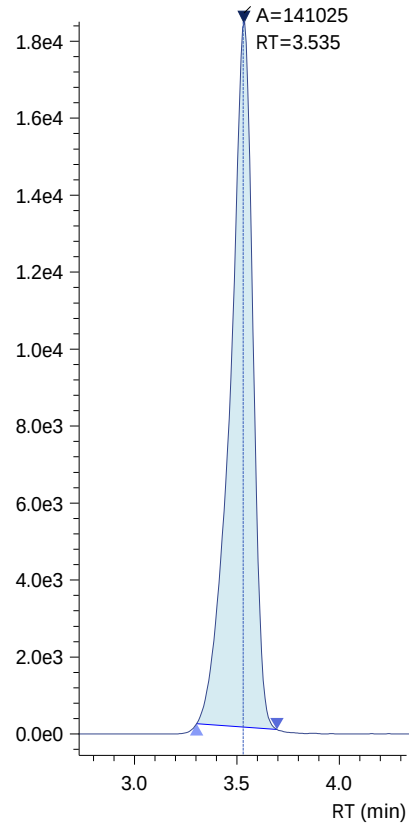
R1 101.00>85.00 (-) 1.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.85e4



Insight Report

Printed at 4/15/2024 12:57:33 PM

Method File: I:\LCMS01\DATA\20240415\20240415.lcm
Project File: I:\LCMS01\DATA\20240415\20240415.damlp

IB

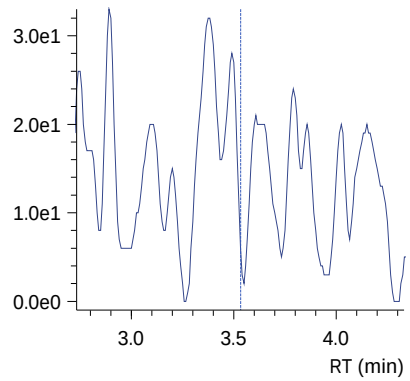
Sample ID: IB
Date Acquired: 4/15/2024 7:53:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	164155	----	ng/mL	101.00 >85.00	0.00	22.32 -42.64
Sodium Perchlorate-18O4_IS	M	3.526	164155	164155	1.0000	ng/mL	----	----	

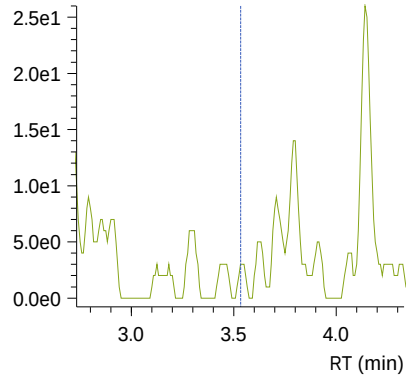
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.30e1



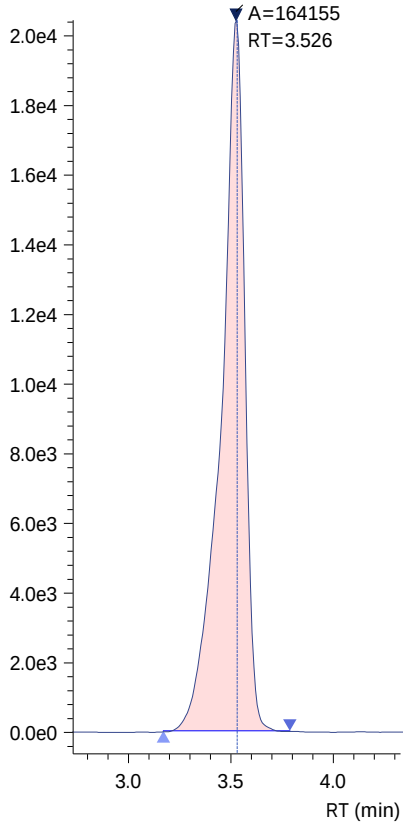
R1 101.00>85.00 (-) 2.60e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.05e4



After-BLC

Insight Report

Printed at 4/15/2024 12:59:15 PM

Method File: I:\LCMS01\DATA\20240415\20240415.lcm
Project File: I:\LCMS01\DATA\20240415\20240415.damlp

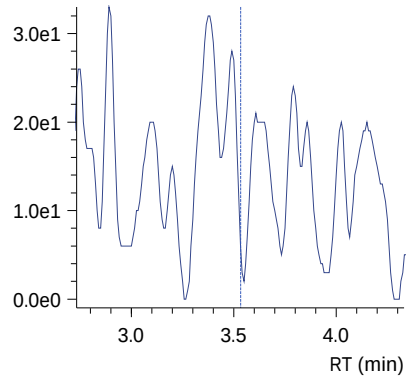
IB

Sample ID: IB
Date Acquired: 4/15/2024 7:53:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

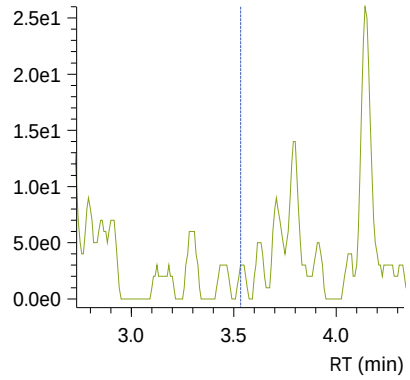
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.30e1



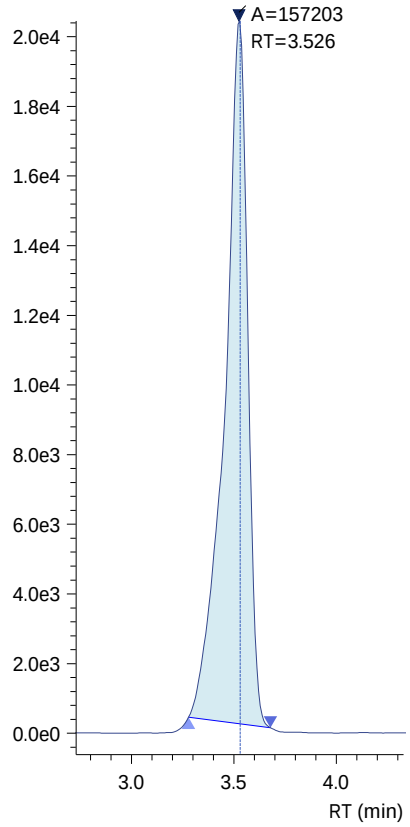
R1 101.00>85.00 (-) 2.60e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.05e4



Insight Report

Printed at 4/15/2024 12:57:33 PM

IB

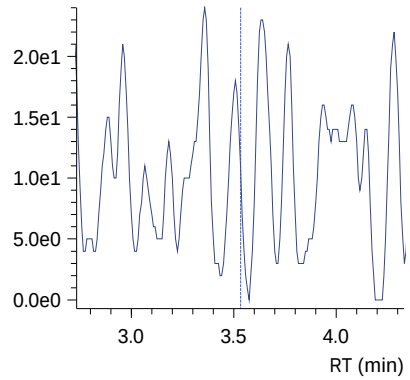
Sample ID: IB
Date Acquired: 4/15/2024 8:44:42 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	153419	----	ng/mL	101.00 >85.00	0.00	22.32 -42.64
Sodium Perchlorate-18O4_IS	M	3.537	153419	153419	1.0000	ng/mL	----	----	

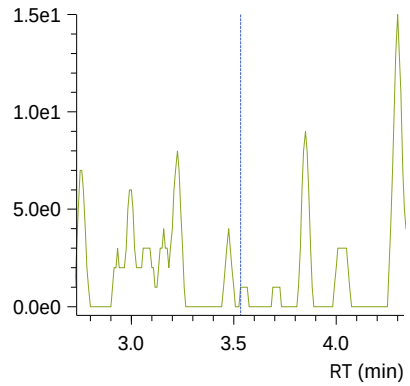
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.40e1



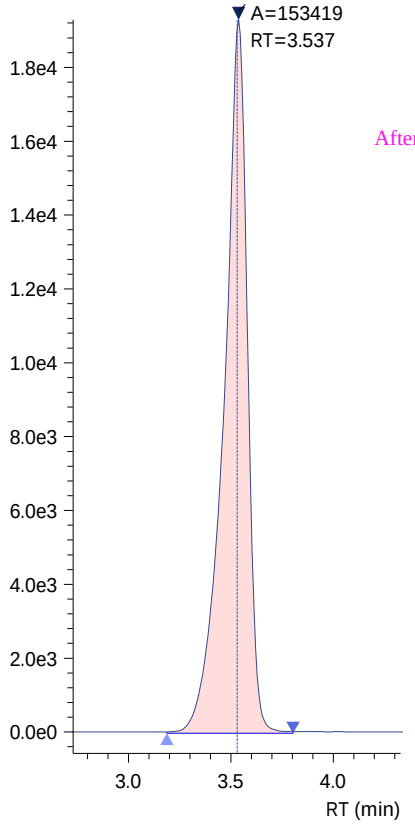
R1 101.00>85.00 (-) 1.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.93e4



After-BLC

Insight Report

Printed at 4/15/2024 12:59:15 PM

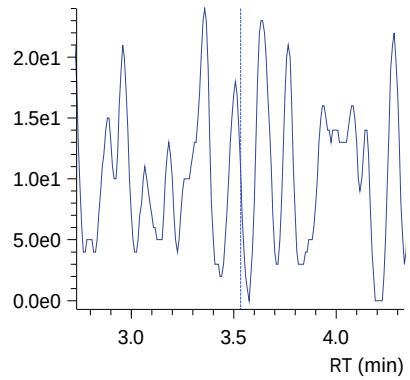
IB

Sample ID: IB
Date Acquired: 4/15/2024 8:44:42 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

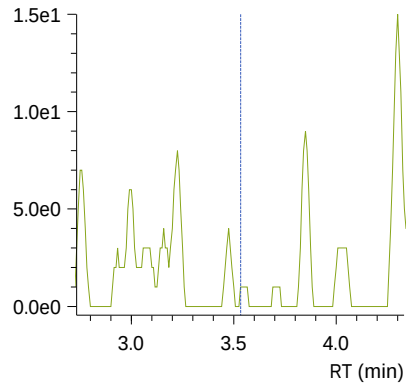
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.40e1



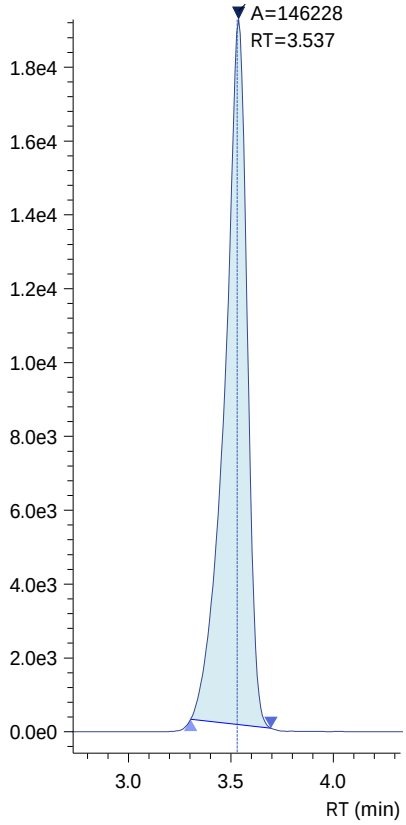
R1 101.00>85.00 (-) 1.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.93e4



Insight Report

Printed at 4/15/2024 12:57:33 PM

LODV

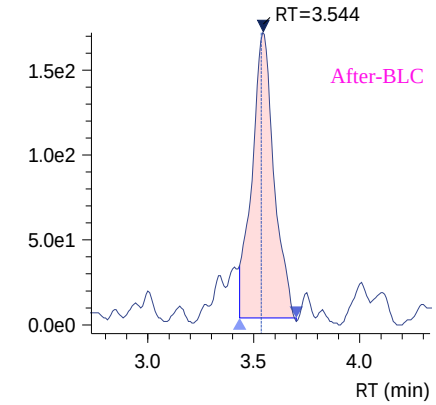
Sample ID: LODV
Date Acquired: 4/15/2024 8:50:53 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.544	1211	140087	0.0558	ng/mL	101.00 >85.00	29.00	22.32 -42.64
Sodium Perchlorate-18O4_IS	Auto	3.549	1400 87	140087	1.0000	ng/mL	----	----	

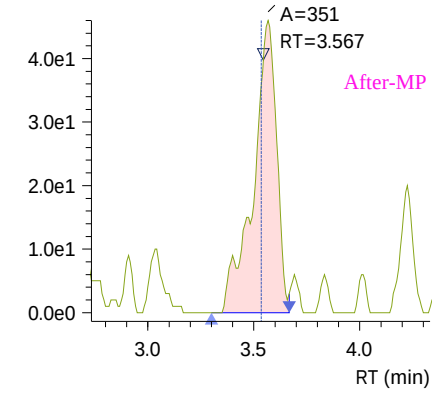
Perchlorate

Conc 0.0558
R#1 29.00 (34.10)

Q 99.00>83.00 (-) A=1211 1.72e2



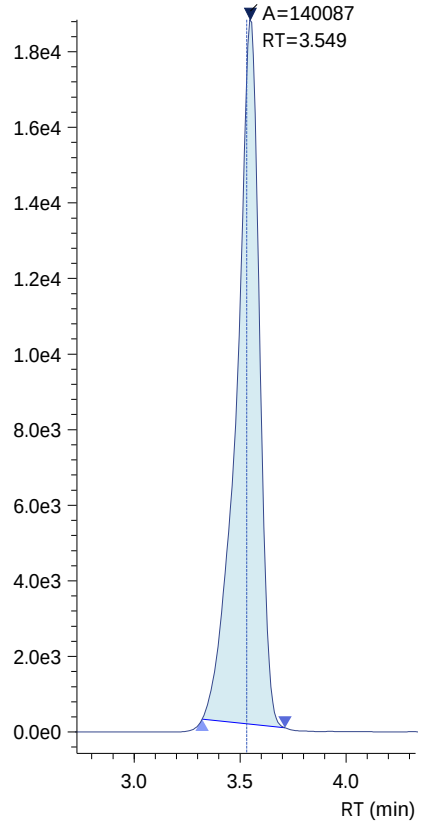
R1 101.00>85.00 (-) 4.60e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.88e4



Insight Report

Printed at 4/15/2024 12:59:15 PM

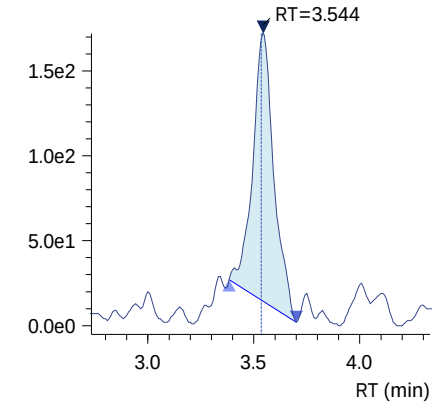
LODV

Sample ID: LODV
Date Acquired: 4/15/2024 8:50:53 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

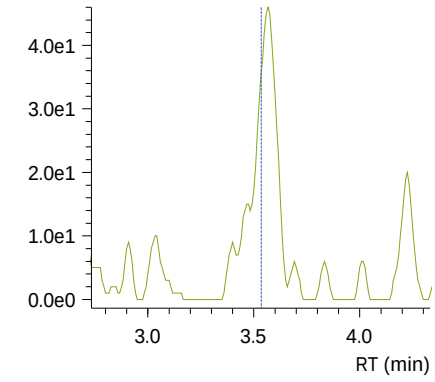
Perchlorate

Conc 0.0506
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1097 1.72e2



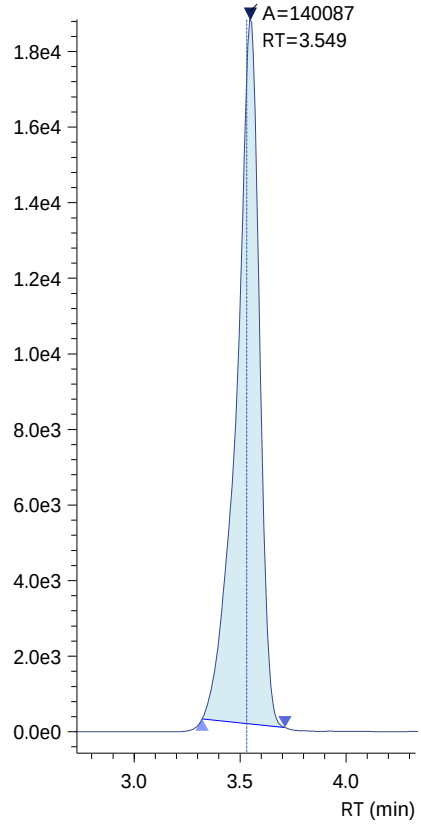
R1 101.00>85.00 (-) 4.60e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.88e4



Insight Report

Printed at 4/15/2024 12:57:33 PM

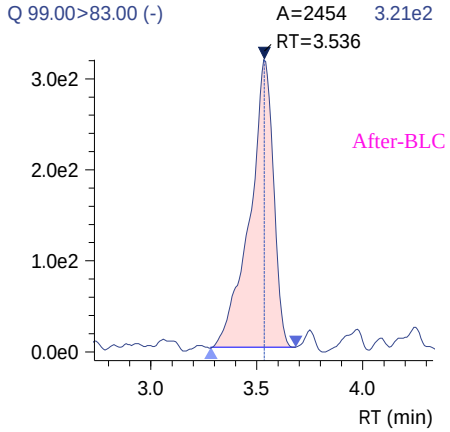
ICS

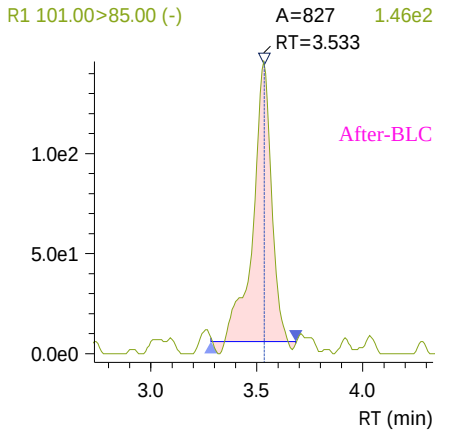
Sample ID: ICS
Date Acquired: 4/15/2024 8:56:25 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.536	2454	156901	0.1009	ng/mL	101.00 >85.00	33.69	22.32 -42.64
Sodium Perchlorate-18O4_IS	Auto	3.534	156901	156901	1.0000	ng/mL	----	----	

Perchlorate

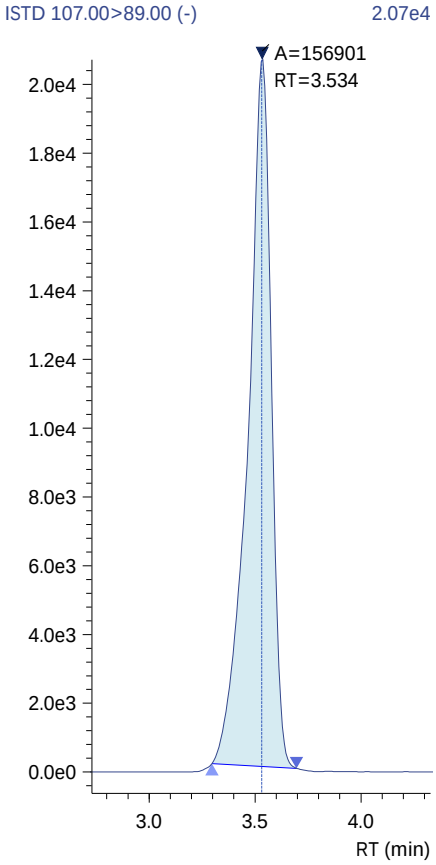
Conc 0.1009
R#1 33.69 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/15/2024 12:59:15 PM

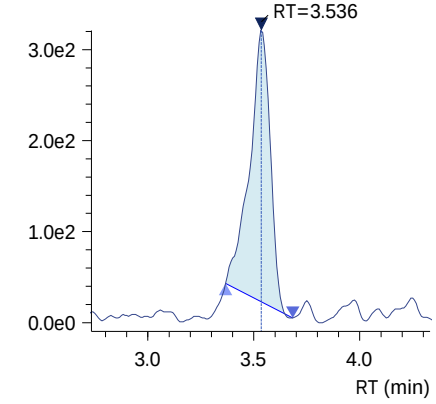
ICS

Sample ID: ICS
Date Acquired: 4/15/2024 8:56:25 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

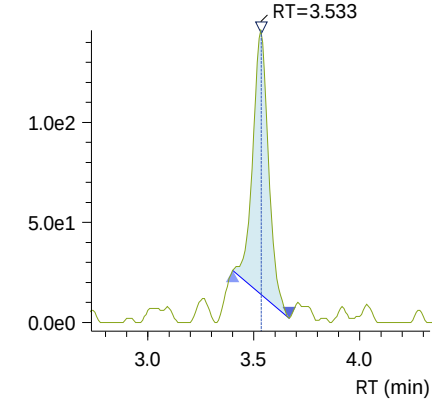
Perchlorate

Conc 0.0833
R#1 33.51 (34.10)

Q 99.00>83.00 (-) A=2026 3.21e2



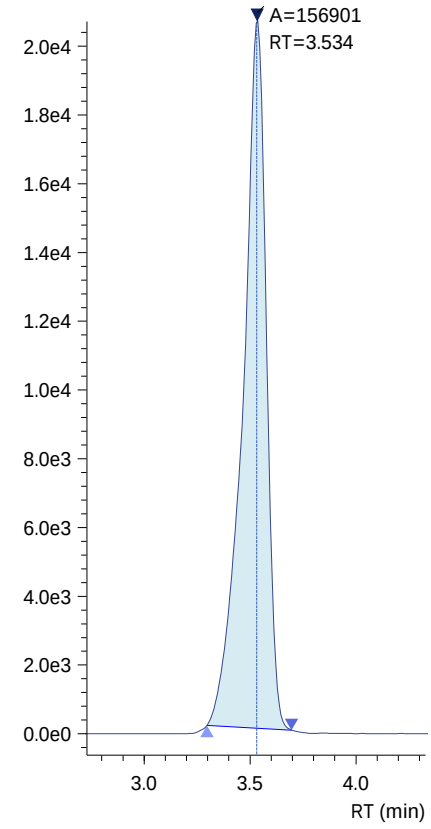
R1 101.00>85.00 (-) A=679 1.46e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.07e4



Insight Report

Printed at 4/15/2024 12:57:33 PM

CCV

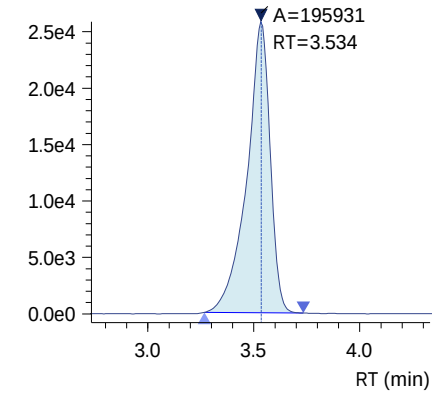
Sample ID: CCV
Date Acquired: 4/15/2024 9:01:58 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.534	1959 31	126213	10.0 194	ng/mL	101.00 >85.00	32.19	22.32 -42.64
Sodium Perchlorate-18O4_IS	Auto	3.531	1262 13	126213	1.0000	ng/mL	----	----	

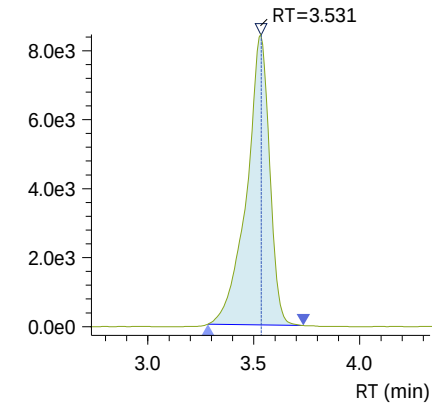
Perchlorate

Conc 10.0194
R#1 32.19 (34.10)

Q 99.00>83.00 (-) 2.59e4



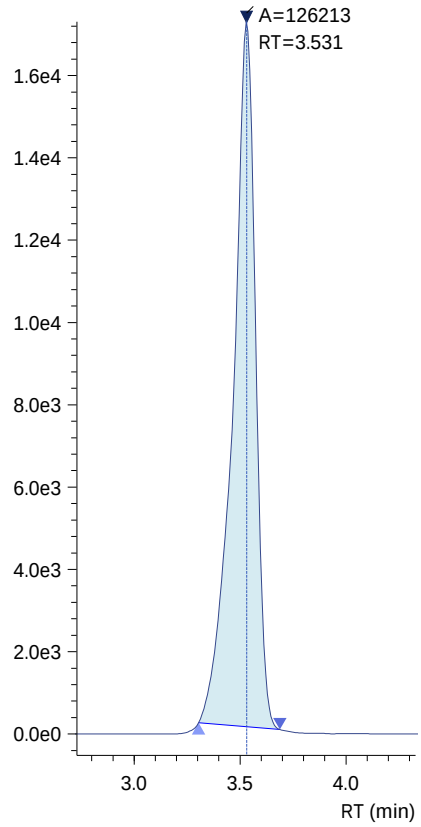
R1 101.00>85.00 (-) A=63078 8.47e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.73e4



Insight Report

Printed at 4/15/2024 12:57:33 PM

IB

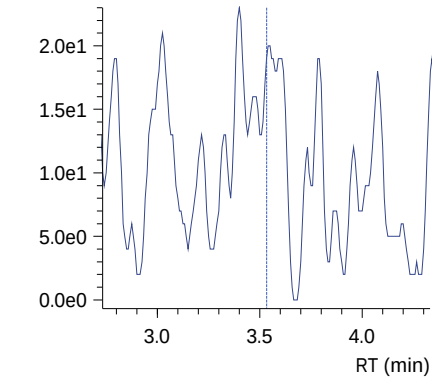
Sample ID: IB
Date Acquired: 4/15/2024 9:07:31 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	142412	----	ng/mL	101.00 >85.00	0.00	22.32 -42.64
Sodium Perchlorate-18O4_IS	Auto	3.534	142412	142412	1.0000	ng/mL	----	----	

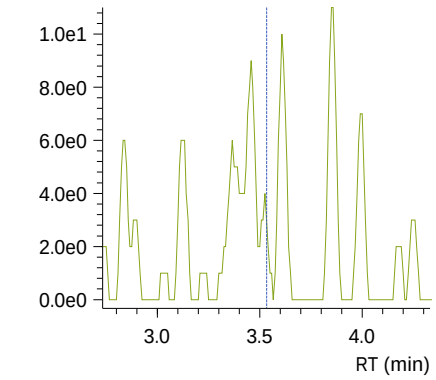
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.30e1



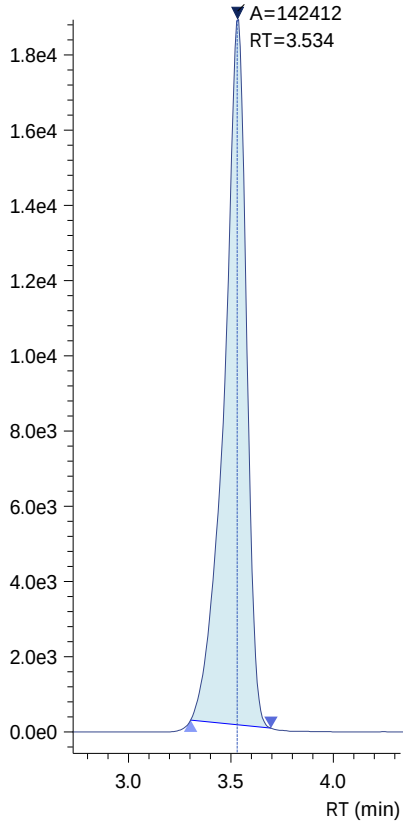
R1 101.00>85.00 (-) 1.10e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.89e4



Insight Report

Printed at 4/15/2024 12:57:33 PM

EQ2400181-01MB

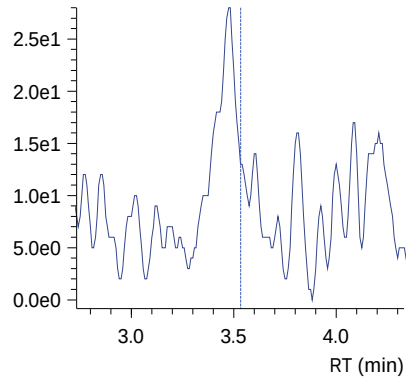
Sample ID: EQ2400181-01
Date Acquired: 4/15/2024 9:42:40 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-009.lcd
Vial: 28 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	130964	----	ng/mL	101.00 >85.00	0.00	22.32 -42.64
Sodium Perchlorate-18O4_IS	M	3.534	130964	130964	1.0000	ng/mL	----	----	

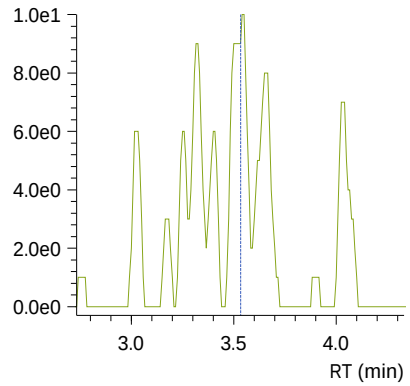
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.80e1



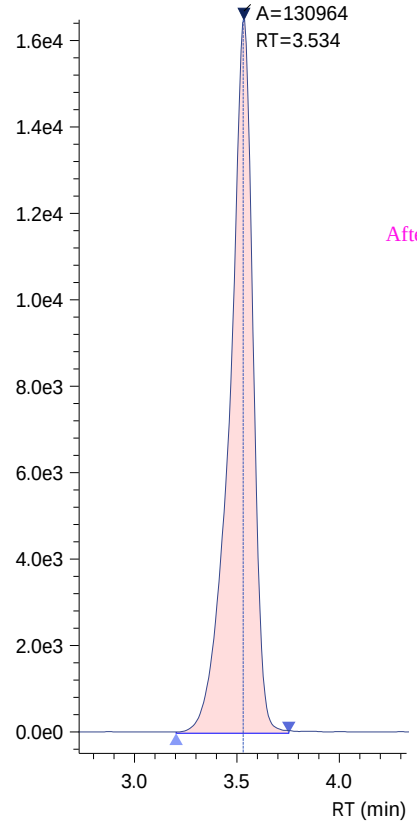
R1 101.00>85.00 (-) 1.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.65e4



After-BLC

Insight Report

Printed at 4/15/2024 1:06:53 PM

Method File: I:\LCMS01\DATA\20240415\20240415.lcm
Project File: I:\LCMS01\DATA\20240415\20240415.damlp

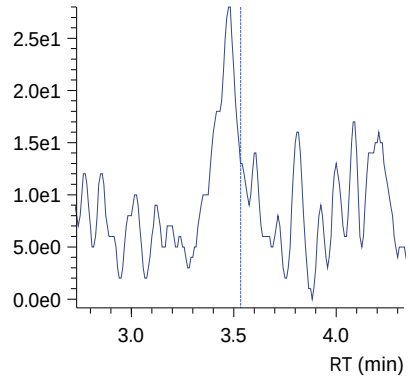
EQ2400181-01MB

Sample ID: EQ2400181-01
Date Acquired: 4/15/2024 9:42:40 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-009.lcd
Vial: 28 | Inj. Volume: 10.0000uL | Tray: 4

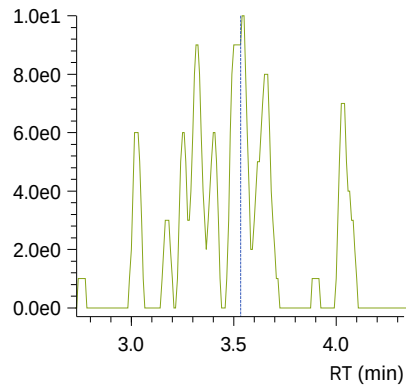
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.80e1



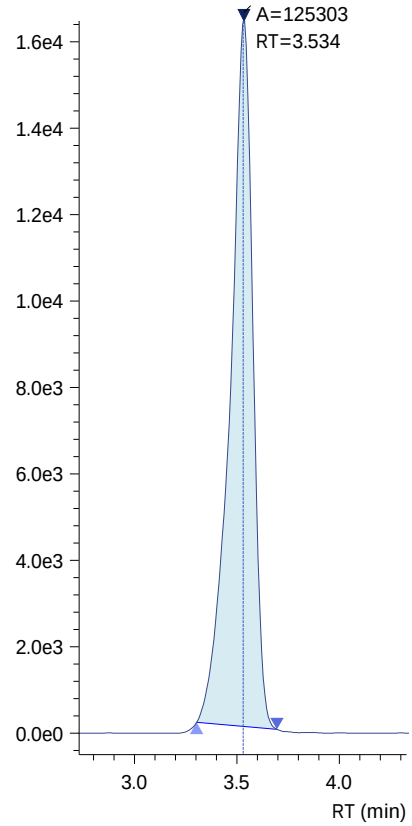
R1 101.00>85.00 (-) 1.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.65e4



Insight Report

Printed at 4/15/2024 12:57:33 PM

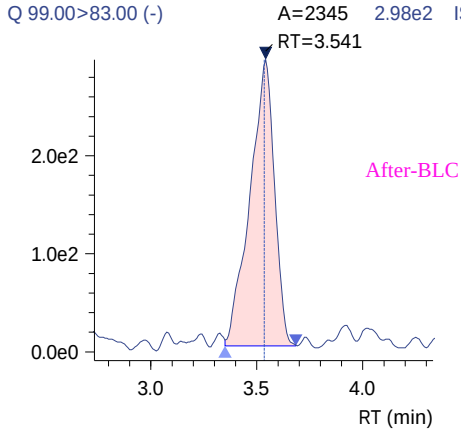
EQ2400181-02LCS

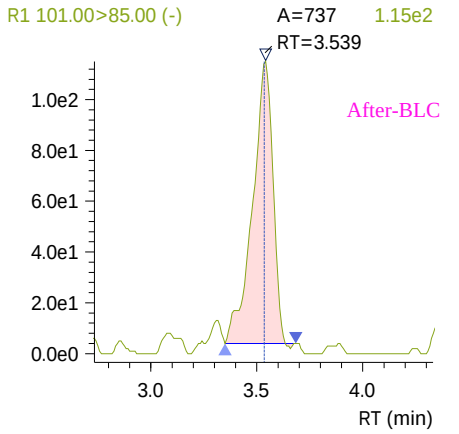
Sample ID: EQ2400181-02
Date Acquired: 4/15/2024 9:48:10 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-010.lcd
Vial: 29 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.541	2345	127984	0.1182	ng/mL	101.00 >85.00	31.43	22.32 -42.64
Sodium Perchlorate-18O4_IS	Auto	3.534	127984	127984	1.0000	ng/mL	----	----	

Perchlorate

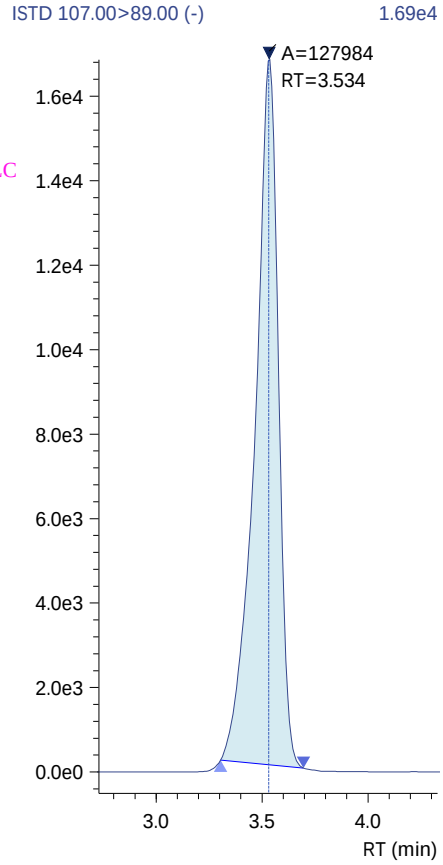
Conc 0.1182
R#1 31.43 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/15/2024 12:59:15 PM

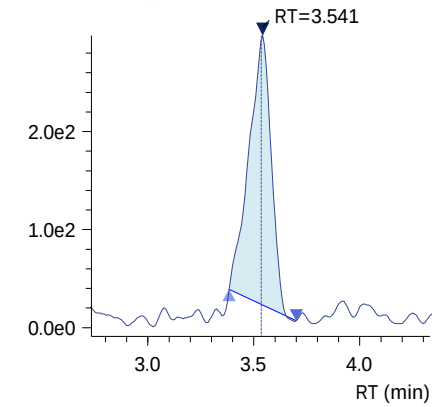
EQ2400181-02LCS

Sample ID: EQ2400181-02
Date Acquired: 4/15/2024 9:48:10 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-010.lcd
Vial: 29 | Inj. Volume: 10.0000uL | Tray: 4

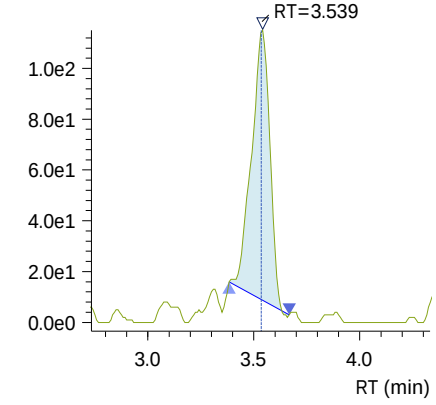
Perchlorate

Conc 0.1005
R#1 31.77 (34.10)

Q 99.00>83.00 (-) A=1994 2.98e2



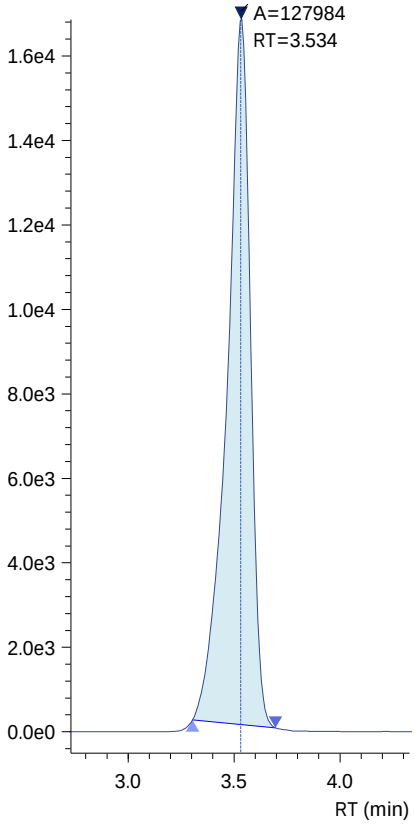
R1 101.00>85.00 (-) A=633 1.15e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.69e4



Insight Report

Printed at 4/15/2024 12:57:33 PM

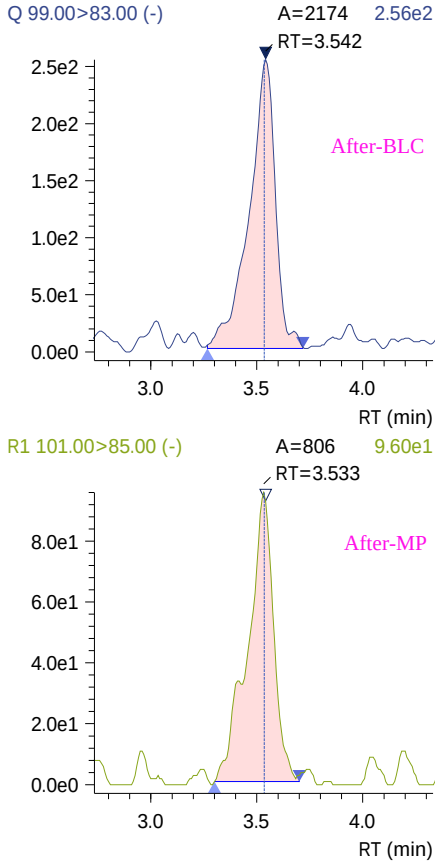
EQ2400181-03DLCS

Sample ID: EQ2400181-03
Date Acquired: 4/15/2024 9:53:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-011.lcd
Vial: 30 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.542	2174	134095	0.1046	ng/mL	101.00 >85.00	37.05	22.32 -42.64
Sodium Perchlorate-18O4_IS	Auto	3.535	134095	134095	1.0000	ng/mL	----	----	

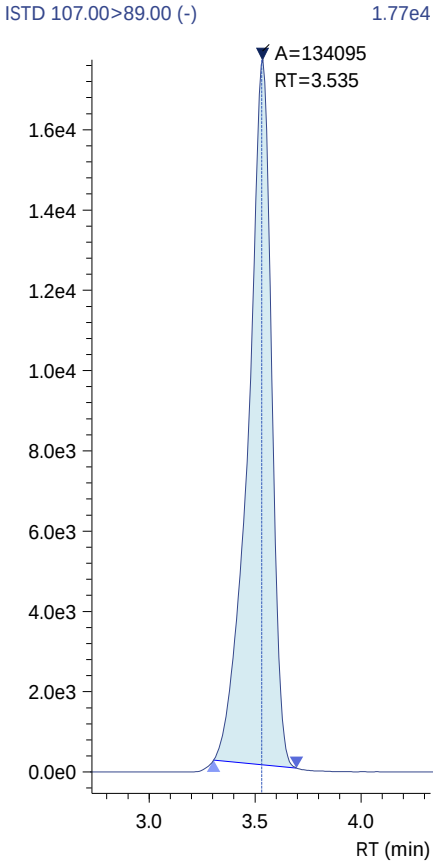
Perchlorate

Conc 0.1046
R#1 37.05 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/15/2024 12:59:15 PM

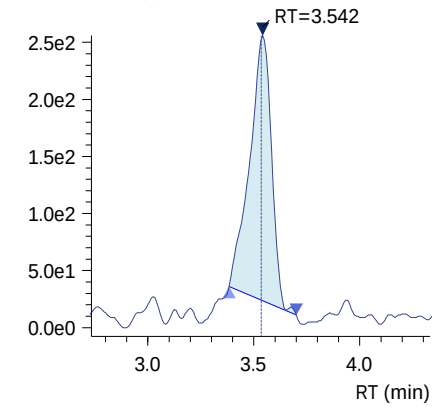
EQ2400181-03DLCS

Sample ID: EQ2400181-03
Date Acquired: 4/15/2024 9:53:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-011.lcd
Vial: 30 | Inj. Volume: 10.0000uL | Tray: 4

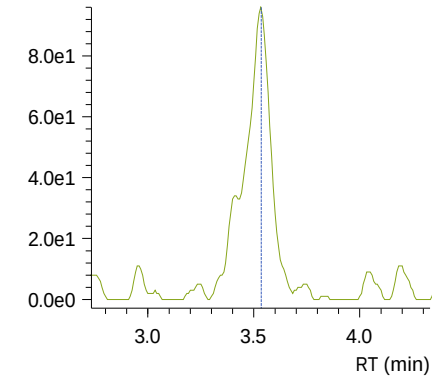
Perchlorate

Conc 0.0800
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1662 2.56e2



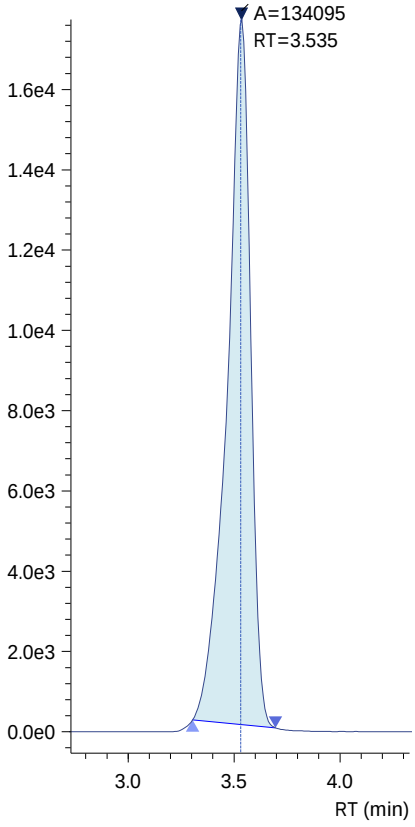
R1 101.00>85.00 (-) 9.60e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.77e4



Insight Report

Printed at 4/15/2024 12:57:33 PM

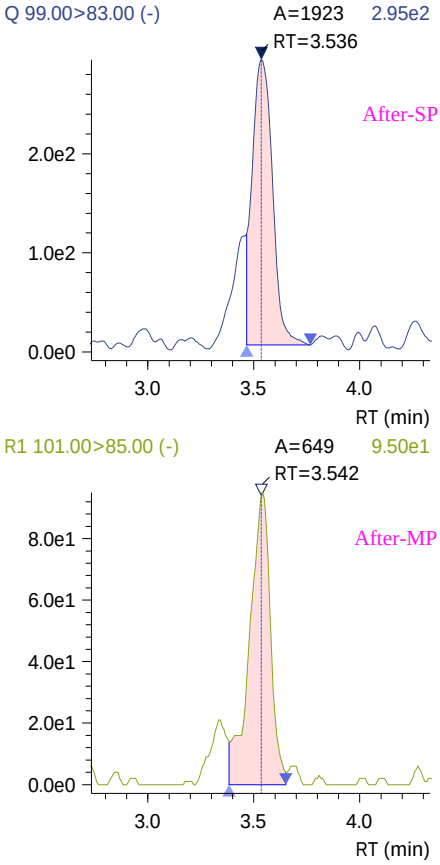
EQ2400181-04ICS

Sample ID: EQ2400181-04
Date Acquired: 4/15/2024 9:59:16 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-012.lcd
Vial: 31 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.536	1923	132808	0.0934	ng/mL	101.00 >85.00	33.76	22.32 -42.64
Sodium Perchlorate-18O4_IS	Auto	3.533	132808	132808	1.0000	ng/mL	----	----	

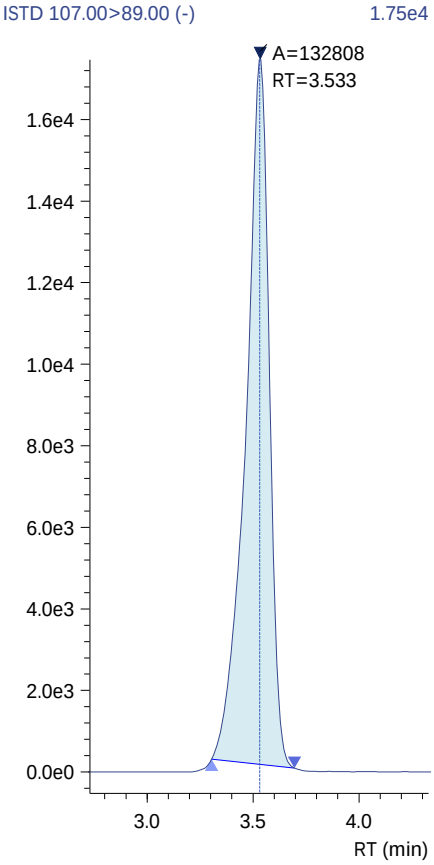
Perchlorate

Conc 0.0934
R#1 33.76 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/15/2024 12:59:15 PM

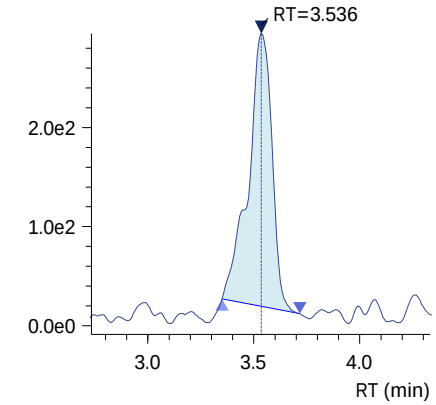
EQ2400181-04ICS

Sample ID: EQ2400181-04
Date Acquired: 4/15/2024 9:59:16 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-012.lcd
Vial: 31 | Inj. Volume: 10.0000uL | Tray: 4

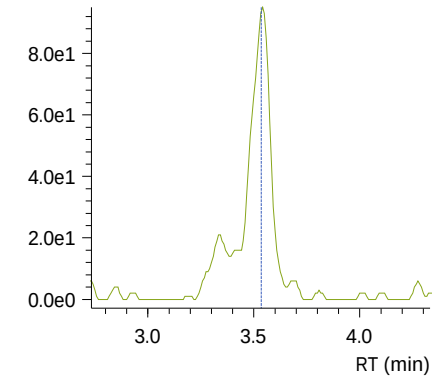
Perchlorate

Conc 0.1039
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2138 2.95e2



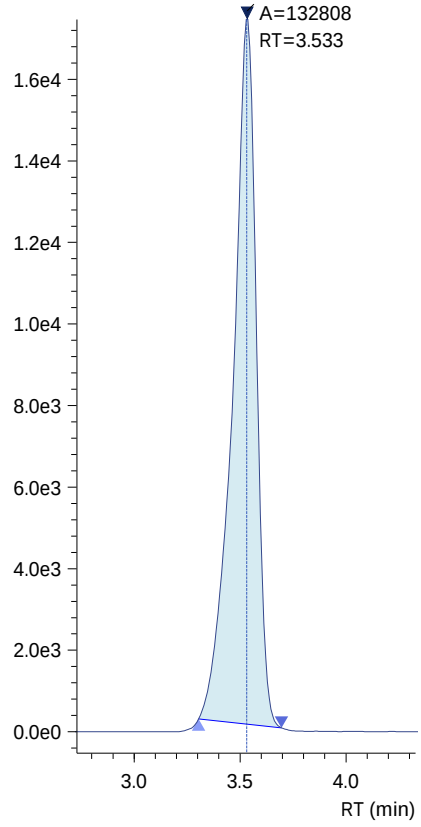
R1 101.00>85.00 (-) 9.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.75e4



Insight Report

Printed at 4/15/2024 12:57:33 PM

E2400362-001

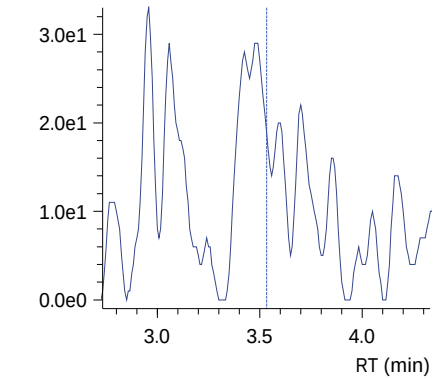
Sample ID: E2400362-001
Date Acquired: 4/15/2024 10:04:51 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-013.lcd
Vial: 32 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	142133	----	ng/mL	101.00 >85.00	0.00	22.32 -42.64
Sodium Perchlorate-18O4_IS	Auto	3.535	142133	142133	1.0000	ng/mL	----	----	

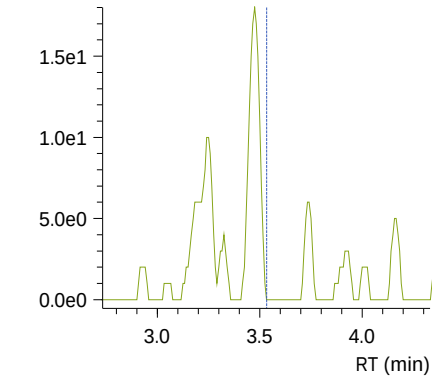
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.30e1



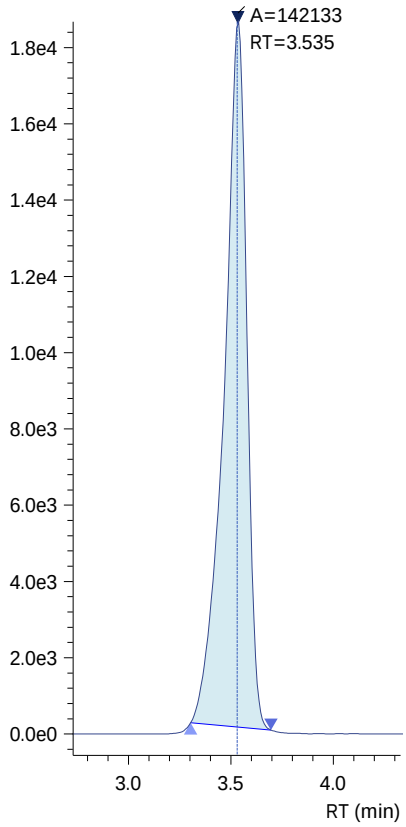
R1 101.00>85.00 (-) 1.80e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.87e4



Insight Report

Printed at 4/15/2024 12:57:33 PM

E2400362-002

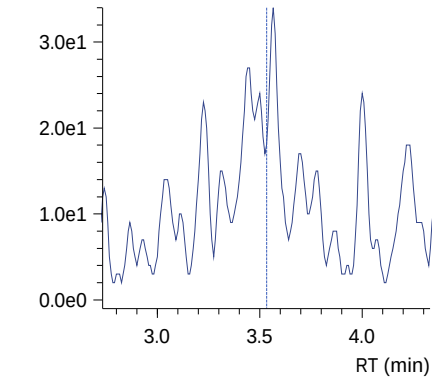
Sample ID: E2400362-002
Date Acquired: 4/15/2024 10:10:21 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-014.lcd
Vial: 33 | Inj. Volume: 10.0000uL | Tray: 4

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	147938	----	ng/mL	101.00 >85.00	0.00	22.32 -42.64
Sodium Perchlorate-18O4_IS	Auto	3.535	147938	147938	1.0000	ng/mL	----	----	

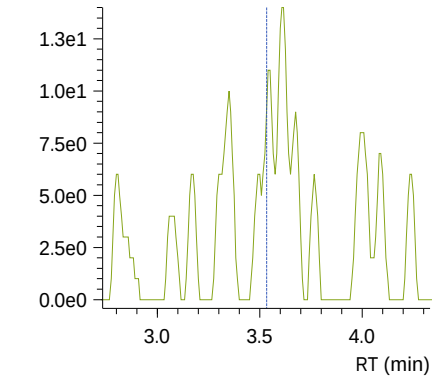
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.40e1



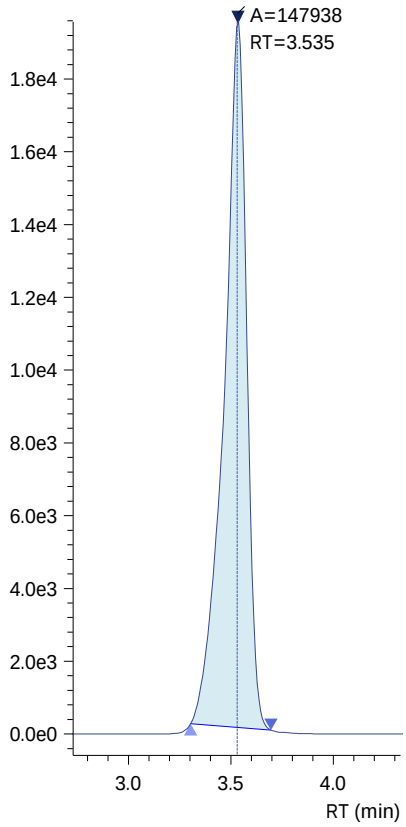
R1 101.00>85.00 (-) 1.40e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.96e4



Insight Report

Printed at 4/15/2024 12:57:33 PM

CCV

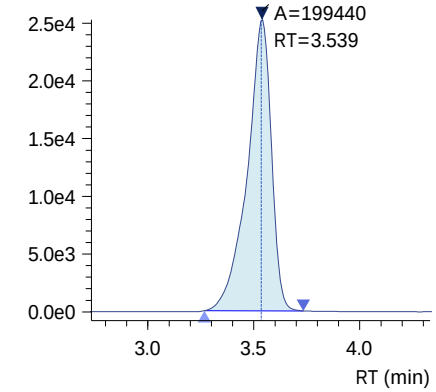
Sample ID: CCV
Date Acquired: 4/15/2024 10:46:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240415\20240415-015.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.539	1994 40	127520	10.0 943	ng/mL	101.00 >85.00	33.41	22.32 -42.64
Sodium Perchlorate-18O4_IS	Auto	3.535	1275 20	127520	1.0000	ng/mL	----	----	

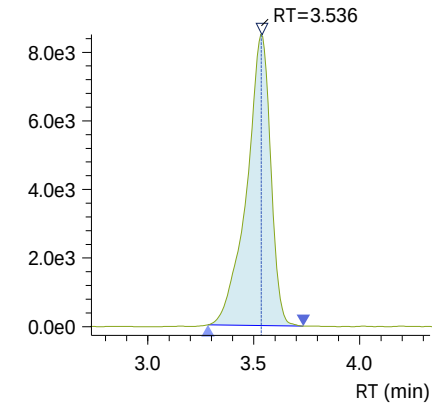
Perchlorate

Conc 10.0943
R#1 33.41 (34.10)

Q 99.00>83.00 (-) 2.53e4



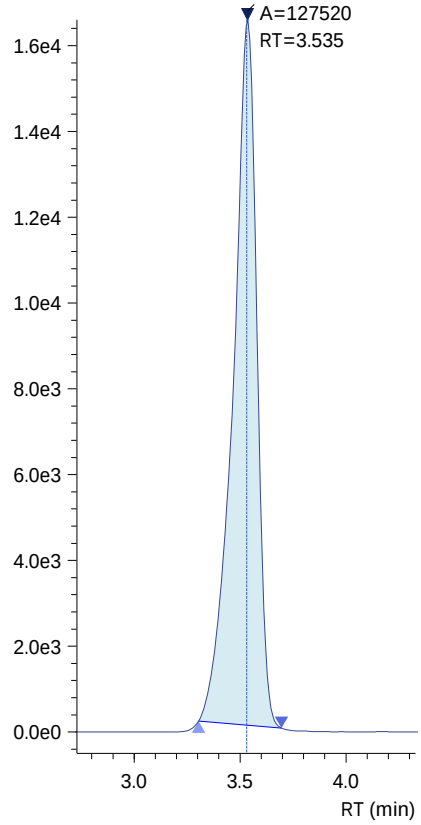
R1 101.00>85.00 (-) A=66630 8.52e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.66e4



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WorkOrder: HS24041274

Longhorn GW Treatment Plant Weekly Samples

Bhate Environmental Associates, Inc.

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Lakewood CO 80228

14-Jun-2024

ALS Environmental

WorkOrder: HS24041274

ALS Environmental
ALS Group USA, Corp
10450 Stancliff Road, Suite 210
Houston, TX 77099
T : +1 281 530 5656
F : +1 281 530 5887
www.alsglobal.com

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HS24041274 Longhorn GW Treatment Plant Weekly Samples COVER PAGE

ALS WO# HS24041274

HS24041274 Longhorn GW Treatment Plant Weekly Samples Final

ALS WO# HS24041274

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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April 25, 2024

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

Work Order: **HS24041274**

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

Dear Marcia Olive,

ALS Environmental received 3 sample(s) on Apr 18, 2024 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
Luis.Aguilar

ALS Houston, US Date: 25-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24041274

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24041274-01	LH18/24-SP650_041724	Water		17-Apr-2024 13:00	18-Apr-2024 10:00	☐
HS24041274-02	LH18/24-SP650_041724_BIX	Water		17-Apr-2024 13:00	18-Apr-2024 10:00	☐
HS24041274-03	LH18/24-SP650_041724_AIX	Water		17-Apr-2024 13:00	18-Apr-2024 10:00	☐

ALS Houston, US Date: 25-Apr-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24041274

Work Order Comments

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

WetChemistry by Method E415.1

Batch ID: R465030

Sample ID: LH18/24-SP650_041724 (HS24041274-01MS)

- The recovery of the Matrix Spike (MS) associated to this analyte was outside of the established control limits. However, the LCS was within control limits. The recovery of the MS may be due to sample matrix interference.

WetChemistry by Method E350.3

Batch ID: R464850

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

WetChemistry by Method E365.3

Batch ID: R464562

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

ALS Houston, US Date: 25-Apr-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24041274
Sample ID: LH18/24-SP650_041724
Lab ID:HS24041274-01
Collection Date: 17-Apr-2024 13:00
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
AMMONIA AS N BY E350.3(ISE)		**Method:E350.3**						Analyst: MM
Nitrogen, Ammonia (As N)	**18**	a	**0.10**	**0.20**	**0.20**	**mg/L**	1	23-Apr-2024 15:10
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**						Analyst: MZD
Phosphorus, Total Orthophosphate (As P)	**6.35**	a	**0.100**	**0.250**	**0.250**	**mg/L**	10	19-Apr-2024 11:18
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**17.9**	a	**0.500**	**1.00**	**1.00**	**mg/L**	1	24-Apr-2024 23:25

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

ALS Houston, US Date: 25-Apr-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24041274
Sample ID: LH18/24-SP650_041724_BIX
Lab ID:HS24041274-02
Collection Date: 17-Apr-2024 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	22-Apr-2024 08:33

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

ALS Houston, US Date: 25-Apr-24

Client:	Bhate Environmental Associates, Inc.	**ANALYTICAL REPORT**
Project:	Longhorn GW Treatment Plant Weekly Samples	WorkOrder:HS24041274
Sample ID:	LH18/24-SP650_041724_AIX	Lab ID:HS24041274-03
Collection Date:	17-Apr-2024 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	22-Apr-2024 08:33

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

ALS Houston, US Date: 25-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24041274

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R464562 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS24041274-01	LH18/24-SP650_041724	17 Apr 2024 13:00			19 Apr 2024 11:18	10
Batch ID: R464649 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24041274-02	LH18/24-SP650_041724_BIX	17 Apr 2024 13:00			22 Apr 2024 08:33	1
HS24041274-03	LH18/24-SP650_041724_AIX	17 Apr 2024 13:00			22 Apr 2024 08:33	1
Batch ID: R464850 (0)	**Test Name :** AMMONIA AS N BY E350.3(ISE)				**Matrix:** Water	
HS24041274-01	LH18/24-SP650_041724	17 Apr 2024 13:00			23 Apr 2024 15:10	1
Batch ID: R465030 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Water	
HS24041274-01	LH18/24-SP650_041724	17 Apr 2024 13:00			24 Apr 2024 23:25	1

ALS Houston, US Date: 25-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24041274

QC BATCH REPORT

Batch ID: R464562 (0) **Instrument:** UV-2450 **Method:** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978

MBLK Sample ID: **MBLK-R464562** Units: **mg/L** Analysis Date: **19-Apr-2024 11:18**
Client ID: Run ID: **UV-2450_464562** SeqNo: **7959696** 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)	0.0250	0.0250								U

LCS Sample ID: **LCS-R464562** Units: **mg/L** Analysis Date: **19-Apr-2024 11:18**
Client ID: Run ID: **UV-2450_464562** SeqNo: **7959695** 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)	0.274	0.0250	0.25	0	110	80 - 120				

MS Sample ID: **HS24041274-01MS** Units: **mg/L** Analysis Date: **19-Apr-2024 11:18**
Client ID: **LH18/24-SP650_041724** Run ID: **UV-2450_464562** SeqNo: **7959698** 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)	8.6	0.250	2.5	6.35	90.0	80 - 120				

MSD Sample ID: **HS24041274-01MSD** Units: **mg/L** Analysis Date: **19-Apr-2024 11:18**
Client ID: **LH18/24-SP650_041724** Run ID: **UV-2450_464562** SeqNo: **7959697** 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)	8.6	0.250	2.5	6.35	90.0	80 - 120	8.6	0	20	

The following samples were analyzed in this batch: HS24041274-01

ALS Houston, US Date: 25-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24041274

QC BATCH REPORT

Batch ID: R464850 (0) **Instrument: WetChem_HS** **Method: AMMONIA AS N BY E350.3(ISE)**

MBLK Sample ID: **MBLK-R464850** Units: **mg/L** Analysis Date: **23-Apr-2024 15:10**										
Client ID: Run ID: **WetChem_HS_464850** SeqNo: **7966936** 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)	0.20	0.20								U
LCS Sample ID: **LCS-R464850** Units: **mg/L** Analysis Date: **23-Apr-2024 15:10**										
Client ID: Run ID: **WetChem_HS_464850** SeqNo: **7966935** 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)	9.699	0.20	10	0	97.0	80 - 120				
MS Sample ID: **HS24041101-04MS** Units: **mg/L** Analysis Date: **23-Apr-2024 15:10**										
Client ID: Run ID: **WetChem_HS_464850** SeqNo: **7966946** 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)	9.388	0.20	10	0.154	92.3	80 - 120				
MSD Sample ID: **HS24041101-04MSD** Units: **mg/L** Analysis Date: **23-Apr-2024 15:10**										
Client ID: Run ID: **WetChem_HS_464850** SeqNo: **7966945** 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)	9.671	0.20	10	0.154	95.2	80 - 120	9.388	2.97	20	

The following samples were analyzed in this batch: HS24041274-01

ALS Houston, US Date: 25-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24041274

QC BATCH REPORT

Batch ID: R465030 (0) **Instrument: TOC_04** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-04242024** Units: **mg/L** Analysis Date: **24-Apr-2024 22:44**
Client ID: Run ID: **TOC_04_465030** SeqNo: **7971675** 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-04242024** Units: **mg/L** Analysis Date: **24-Apr-2024 22:55**
Client ID: Run ID: **TOC_04_465030** SeqNo: **7971676** PrepDate: DF: **1**

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

LCSD Sample ID: **LCSD-04242024** Units: **mg/L** Analysis Date: **24-Apr-2024 23:05**
Client ID: Run ID: **TOC_04_465030** SeqNo: **7971677** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	10.1	1.00	10	0	101	85 - 115	10.14	0.395	20	

MS Sample ID: **HS24041274-01MS** Units: **mg/L** Analysis Date: **24-Apr-2024 23:36**
Client ID: **LH18/24-SP650_041724** Run ID: **TOC_04_465030** SeqNo: **7971679** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	24.84	1.00	10	17.88	69.6	80 - 120				S

The following samples were analyzed in this batch: HS24041274-01

ALS Houston, US Date: 25-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: **HS24041274**

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; 2024	30-Apr-2024
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231 TX-C24-00109	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 25-Apr-24

Sample Receipt Checklist

Work Order ID: HS24041274 **Date/Time Received:** **18-Apr-2024 10:00**

Client Name: Bhate Environmental **Received by:** **Armand Morgan**

Completed By:	/S/ Jacob Coronado	18-Apr-2024 16:26	**Reviewed by:**	/S/ Luis.Aguilar	18-Apr-2024 20:01
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **w** Carrier name: **FedEx**

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

Temperature(s)/Thermometer(s):	2.3uc/2.4c	ir31
Cooler(s)/Kit(s):	46037	
Date/Time sample(s) sent to storage:	04/18/2024 1627	

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:

HS24041274

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

CHAIN OF CUSTODY

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

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT WEEKLY SAMPLES**	
Prepared By: Scott Beesinger	P.O. Number BILL to PCI

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: AMMONIA-N	TOTAL ORGANIC CARBON	ORTHO-PHOSPHATE	PERCHLORATE							Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_041724	Water	04/17/24 / 13:00		3	X	X									H2SO4	
LH18/24-SP650_041724	Water	04/17/24 / 13:00		1			X								NONE	
LH18/24–SP650_041724_BIX	Water	04/17/24 / 13:00		1				X							NONE	
LH18/24- SP650_041724_AIX	Water	04/17/24 / 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	04/17/24	13:30							AM	4/18/24	10:00

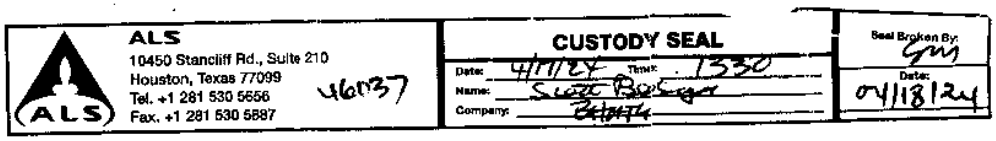
For Lab Use Only

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

Remarks:

Cooler 46037 2.3

IR#31



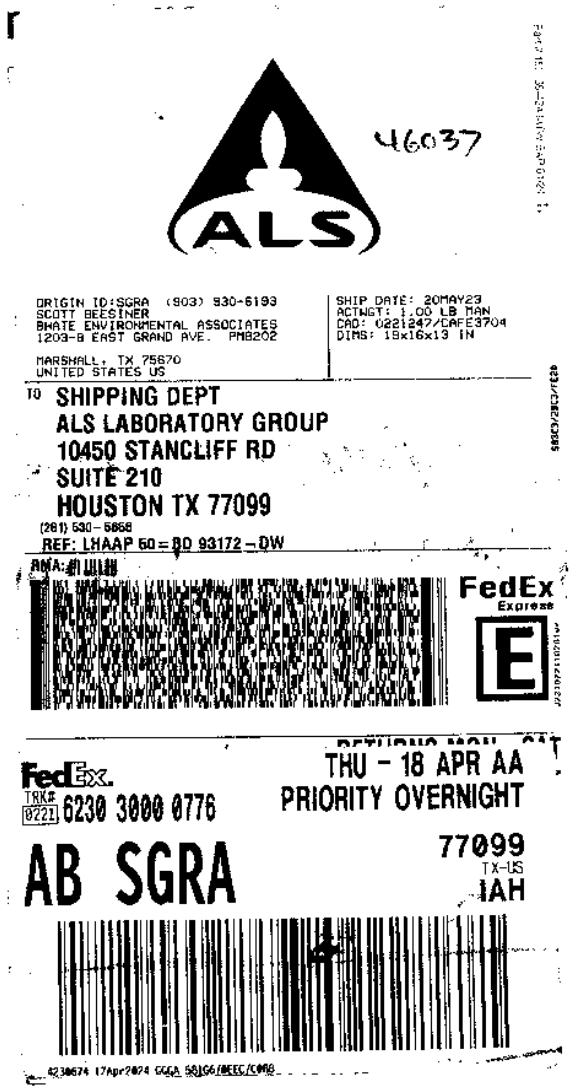
ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

46037

CUSTODY SEAL
Date: 4/17/24 Time: 1330
Name: Scott Beesiner
Company: BHATE

Seal Broken By: Guy
Date: 04/18/24

46037 APR 1 8 2024



ALS

46037

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB202

MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 20MAY23
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3704
DIMS: 18x16x13 IN

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: LHAAP 60=BD 93172-DW

FedEx Express

FedEx.
TRK# 0221 6230 3000 0776

THU - 18 APR AA
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US
IAH

April 19, 2024 Service Request No:E2400391

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24041274

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory April 18, 2024
For your reference, these analyses have been assigned our service request number **E2400391.**

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 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

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

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400391
Project:	HS24041274	**Date Received:**	04/18/24
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 04/18/24.

The samples were received in good condition and is 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:

EQ2400188: Laboratory Control Spike/Low Level Laboratory Control Spike (LCS/LL-LCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

IS/Surrogates:

Select surrogate recoveries were out of control limits. Method 1633 quantitates based on isotopic dilution which automatically corrects for variation in extraction efficiency.

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:**E2400391
Project: HS24041274

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400391-001	LH18/24-SP650_041724_BIX	4/17/2024	1300
E2400391-002	LH18/24-SP650_041724_AIX	4/17/2024	1300

Service Request Summary

Folder #: **E2400391**
Client Name: ALS Environmental - US
Project Name: HS24041274
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 04/18/24
Internal Due Date: 4/19/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4C
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400391-001	LH18/24-SP650_041724_BIX	Water	04/17/24 1300	**IV***
E2400391-002	LH18/24-SP650_041724_AIX	Water	04/17/24 1300	**IV***

Service Request Summary

Folder #: **E2400391**
Client Name: ALS Environmental - US
Project Name: HS24041274
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
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Project Chemist: Hussam Kelany
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Date Received: 04/18/24
Internal Due Date: 4/19/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4C
Pressure Gas:

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_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	TX-C24-00109	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
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E2400391 5
ALS Group USA, Corp.
HS24041274

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

Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 25396**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	luis.aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24041274
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24041274-02**	**LH18/24-SP650_041724_BIX**	**Water**	**17 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			02 May 2024
2.	**HS24041274-03**	**LH18/24-SP650_041724_AIX**	**Water**	**17 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			02 May 2024

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: JC Date/Time: 9/18/24 1626

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

10450 Stancliff Rd, Ste 210
Houston, TX 77099
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Purchase Order

PO: HS24041274

VENDOR:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	luis.aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	25396
TSR:	Houston House Acct

	Item	Catalog No	Unit Price	Quantity	Ext Price
1.	6850-Perch. DOD Level II & Level IV in separate pdf	NA	$112.50	2	$225.00
				Order Total:	$225.00

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E2400391 5
ALS Group USA, Corp.
HS24041274

Sample Receipt Checklist

Work Order ID: HS24041274 **Date/Time received:** 18 Apr 2024 10:00

Client name: Bhate Environmental Associates, Inc. **Received by:** Armand Morgan

Completed/By: 18 Apr 2024 16:26 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** _____ (Date/Time) _____ (eSignature)

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	COC ID(s):
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): 2.3uc/2.4c ir31

Cooler Information: 1 Cooler(s), 46037

Date/Time sample(s) sent to storage: 04/18/2024 1627

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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SAMPLE ACCEPTANCE POLICY

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

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

- ✓ Intact on outside of cooler, signed and dated

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

The following is required on each COC:

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

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

Sample Integrity (mandatory):

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

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

Temperature Requirement (varies by sample matrix):

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

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

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 437153 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/19/24 09:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400354-001	2403190943B 200-D-240	.01	6850/ClO4 DOD			Water	10mL	
2	E2400358-001	LH18/24-SP140_041024	.01	6850/ClO4 DOD			Water	10mL	
3	E2400363-001	LH18/24-SP650_041024_AIX	.01	6850/ClO4 DOD			Water	10mL	
4	E2400378-001	LTMSW16-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
5	E2400378-002	LTMSW15-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
6	E2400378-003	FD01-SW-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
7	E2400378-004	LTMSW14-040924	.01	6850/ClO4 DOD			Surface Water	10mL	
8	E2400378-005	LTMSW13-040924	.01	6850/ClO4 DOD			Surface Water	10mL	
9	E2400378-006	LTMSW12-040924	.03	6850/ClO4 DOD			Surface Water	10mL	
10	E2400381-001	2404091004A PL-1-486	.01	6850/ClO4 DOD			Water	10mL	
11	E2400391-001	LH18/24-SP650_041724_BIX	.01	6850/ClO4 DOD			Water	10mL	
12	E2400391-002	LH18/24-SP650_041724_AIX	.01	6850/ClO4 DOD			Water	10mL	
13	EQ2400188-01	MB		6850/ClO4 DOD			Liquid	10mL	
14	EQ2400188-02	LCS		6850/ClO4 DOD			Liquid	10mL	
15	EQ2400188-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
16	EQ2400188-04	ICS		6850/ClO4 DOD			Liquid	10mL	
17	EQ2400188-05	LTMSW12-040924 MS	.03	6850/ClO4 DOD			Liquid	10mL	
18	EQ2400188-06	LTMSW12-040924 DMS	.03	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400188-02 10.00µL EQ2400188-03 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400391-001 100.00µL E2400391-002 100.00µL EQ2400188-01 100.00µL EQ2400188-02 100.00µL EQ2400188-03 100.00µL EQ2400188-04 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400188-04 20.00µL

Preparation Materials

6850 0.45um syringe filters 6850 0.45 SYRING FILTER (229979) 6850 Luer-Lok Syringes Luer-Lok Syringes (228117)

Preparation Information Benchsheet

Prep Run#: 437153 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/19/24 09:00

Preparation Steps

Step: Preparation
Started: 4/19/24 09:00
Finished: 4/19/24 10:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

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
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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400391
Project:	HS24041274	**Date Collected:**	4/17/24 1300
Sample Matrix:	Water	**Date Received:**	4/18/24
Sample Name:	LH18/24-SP650_041724_BIX	**Units:**	µg/L
Lab Code:	E2400391-001	**Basis:**	NA

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

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.421**		0.100	0.0500	0.0250	1	4/19/24	4/19/24 12:07	437153	838403	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400391
Project:	HS24041274	**Date Collected:**	4/17/24 1300
Sample Matrix:	Water	**Date Received:**	4/18/24
Sample Name:	LH18/24-SP650_041724_AIX	**Units:**	µg/L
Lab Code:	E2400391-002	**Basis:**	NA

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

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0959**	J	0.100	0.0500	0.0250	1	4/19/24	4/19/24 12:12	437153	838403	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400391
Project:	HS24041274	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400188-01	**Basis:**	NA

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

Analytical Method: 6850

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	4/19/24	4/19/24 11:44	437153	838403	

Accuracy & Precision

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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: HS24041274
Sample Matrix: Water

Service Request: E2400391
Date Analyzed: 4/19/24

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

Analytical Method: 6850
Prep Method:

Units: µg/L
Basis: NA

Extraction Lot: 437153

	Lab Control Sample EQ2400188-02			Duplicate Lab Control Sample EQ2400188-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.111	0.100	111	0.118	0.100	118	84 - 119	6	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:**	E2400391
Project:	HS24041274	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400188-02	**Basis:**	NA

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

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.111**		0.100	0.0500	0.0250	1	4/19/24	4/19/24 11:50	437153	838403	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400391
Project:	HS24041274	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400188-03	**Basis:**	NA

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

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.118**		0.100	0.0500	0.0250	1	4/19/24	4/19/24 11:56	437153	838403	

HS24041274 Wetchem NIT-AMM_W-E350.3 - ISE

ALS WO# HS24041274

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Nit – Amm W 350.3 ISE

Ion Selective Electrode Logbook

Logbook **32521**

Analyst: MM			Date: 4/23/24 1510
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F			
Probe Calibration Date: 4/23/24	Cal Std ID: S2510200424		Probe ID: NH3-10
Std Level	mV	Conc., mg/L:	Sodium Thiosulfate ID:
STD 1 (mg/L): 0.2	135	0.199	Std Level / mV / Conc., mg/L:
STD 2 (mg/L): 1	75.1	1.004	STD 4 (mg/L): 10 — 41.3 — 10.007
STD 3 (mg/L): 5	21.2	5.006	STD 5 (mg/L): 50 — 0.6 — 45.984
LSC / MS Spike ID: 311204602			ICAL Date & Slope: 4/18.7. %. -58.2
ICV Cal STD ID: 325102004			
DPD Reagent ID: 3801029774			

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/–)	Comments
CCV		50	50		9.381			
CCB					0.007			
MBIN					0.007			
LCS					9.699			
0484-1					0.846		-ve	
1093-1					0.777			
1176-1					1.023			
0798-1					20.506			
0822-1					1.154			
1274-1					18.334			
1351-01					1.057			
1018-1					1.086			
CCV					10.299			
CCB					0.008			
1101-4					0.154			
1128-1					0.111		+ve	Reched:
1128-2					9.765			
1128-3					0.831			
1128-4					0.376			
~~1128~~ 1130-1					0.200			Amm 4
1130-2					0.163			
1130-3					0.474			
1130-4					0.270			
CCV					10.461			
CCB					0.009			

Batch ID:	Reported By	Reviewed By:
464850	M	HB

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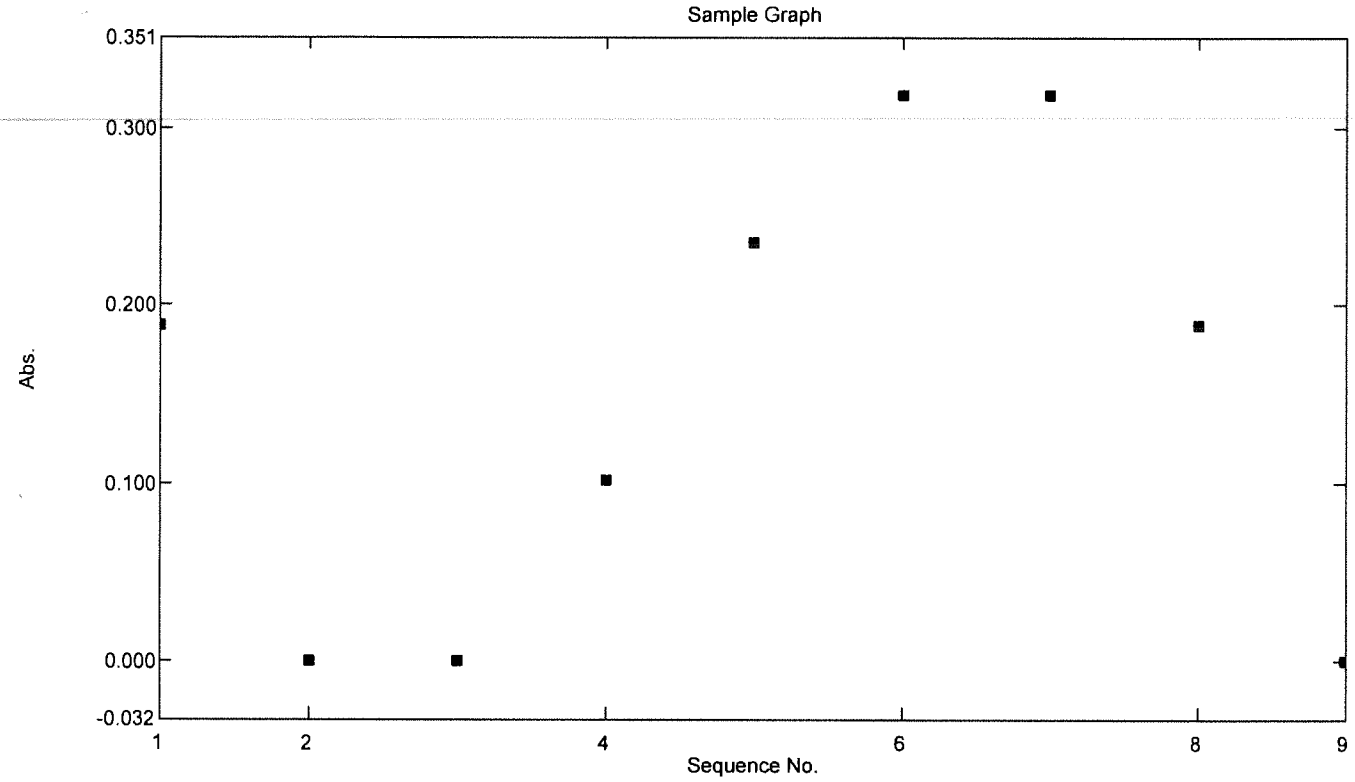
HS24041274 Wetchem P-ORTHO

ALS WO# HS24041274

Sample Table Report

06/14/2024 11:48:02 AM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\04192024P_ORTHO.pho



Sample Table

	Sample ID	Date	Time	Conc	WL650.	Comments
1	CCV	04/19/2024	11:18:12 AM	0.507	0.188	325101403 WC-19
2	CCB	04/19/2024	11:18:24 AM	-0.001	-0.000	3100608622 WC-29
3	MBLK	04/19/2024	11:18:26 AM	-0.000	-0.000	325101401 WC-19
4	LCS	04/19/2024	11:18:41 AM	0.274	0.102	325101402 WC-19
5	HS24041274.01	04/19/2024	11:19:08 AM	0.635	0.235	PF:10X
6	HS24041274.01MS	04/19/2024	11:19:23 AM	0.860	0.319	PF:10X
7	HS24041274.01MSD	04/19/2024	11:19:32 AM	0.860	0.319	PF:10X
8	CCV1	04/19/2024	11:19:41 AM	0.509	0.189	
9	CCB1	04/19/2024	11:19:46 AM	0.000	0.000	
10						

HS24041274 Wetchem TOC_W ICAL TABLE

ALS WO# HS24041274

C:\TOC-L\Data\2024_02_01_005.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Dilutio	Result	Notes
1	Standard	NPOC	CALIBRATION	3100608307	02.01.2024.CAL.	1.000		
2	Unknown	NPOC	ICV	3100607917	02.01.2024.CAL.	1.000	NPOC:9.379mg/L	
3	Unknown	NPOC	ICB		02.01.2024.CAL.	1.000	NPOC:0.09710mg/L	

	Status	Date / Time	Vial
1	Completed	2/2/2024 12:01:04 AM	1, 2, 3, 4, 5,
2	Completed	2/2/2024 12:14:10 AM	8
3	Completed	2/2/2024 12:25:59 AM	9

HS24041274 Wetchem TOC_W ICAL

ALS WO# HS24041274

TOC-Control L Report

2024_02_01_005.tlx

Instr.Information

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

Cal. Curve

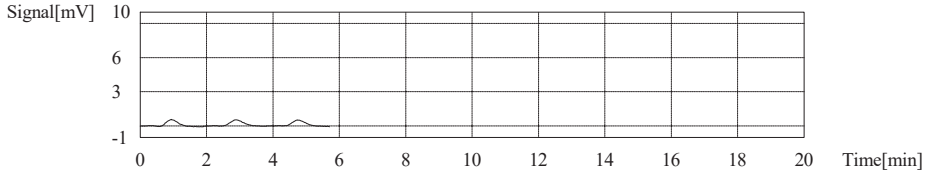
Sample Name:	CALIBRATION
Sample ID:	3100608307
Cal. Curve:	02.01.2024.CAL.2024_02_01_22_31_34.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.574	50uL	1.000	*******		2/1/2024 10:39:00 PM
2	1.588	50uL	1.000	*******		2/1/2024 10:41:09 PM
3	1.382	50uL	1.000	*******		2/1/2024 10:43:18 PM

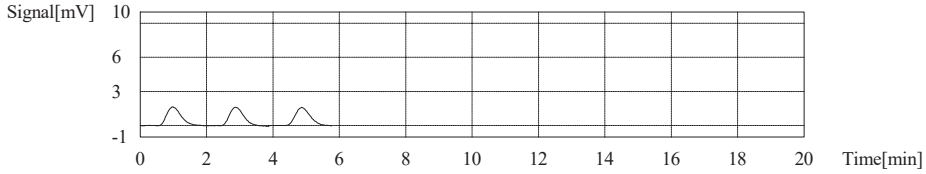
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	1.515



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.970	50uL	1.000	*******		2/1/2024 10:50:50 PM
2	4.989	50uL	1.000	*******		2/1/2024 10:53:03 PM
3	5.007	50uL	1.000	*******		2/1/2024 10:55:12 PM

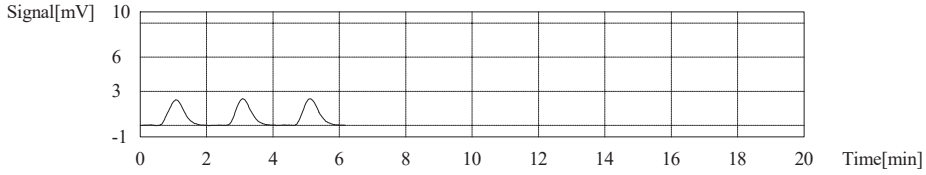
Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	4.989



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.505	50uL	1.000	*******		2/1/2024 11:02:55 PM
2	7.316	50uL	1.000	*******		2/1/2024 11:05:09 PM
3	7.532	50uL	1.000	*******		2/1/2024 11:07:29 PM

Acid Add.	1.500%
Sparge Gas Flow	80mL/min
Sp. Time	90.00sec
Mean Area	7.451



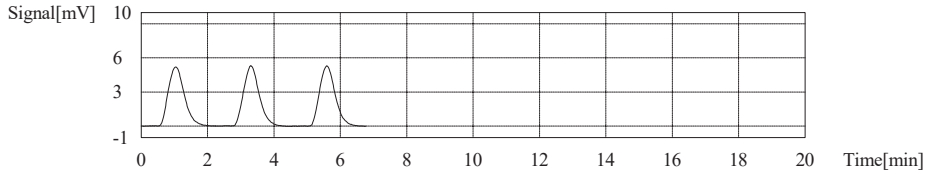
TOC-Control L Report

2024_02_01_005.tlx

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	17.63	50uL	1.000	*******		2/1/2024 11:15:22 PM
2	17.64	50uL	1.000	*******		2/1/2024 11:17:53 PM
3	17.72	50uL	1.000	*******		2/1/2024 11:20:21 PM

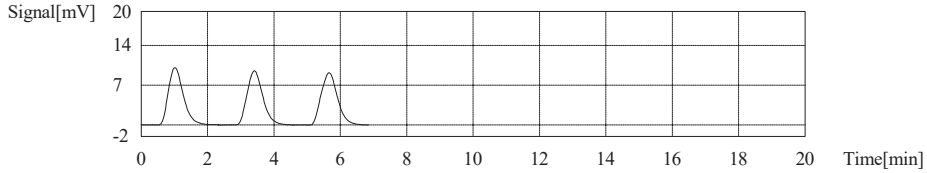
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 90.00sec
Mean Area 17.66



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	32.20	50uL	1.000	*******		2/1/2024 11:28:20 PM
2	31.65	50uL	1.000	*******		2/1/2024 11:30:49 PM
3	31.90	50uL	1.000	*******		2/1/2024 11:33:20 PM

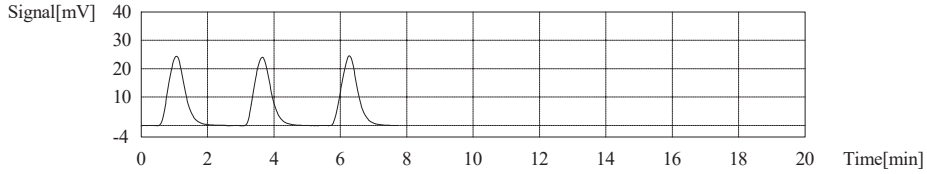
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 90.00sec
Mean Area 31.92



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	84.13	50uL	1.000	*******		2/1/2024 11:41:32 PM
2	84.19	50uL	1.000	*******		2/1/2024 11:44:24 PM
3	83.72	50uL	1.000	*******		2/1/2024 11:47:12 PM

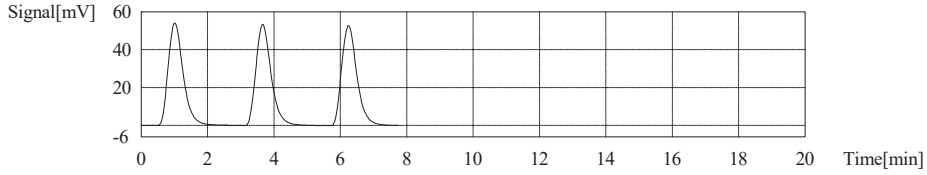
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 90.00sec
Mean Area 84.01



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	171.5	50uL	1.000	*******		2/1/2024 11:55:28 PM
2	171.6	50uL	1.000	*******		2/1/2024 11:58:18 PM
3	170.1	50uL	1.000	*******		2/2/2024 12:01:04 AM

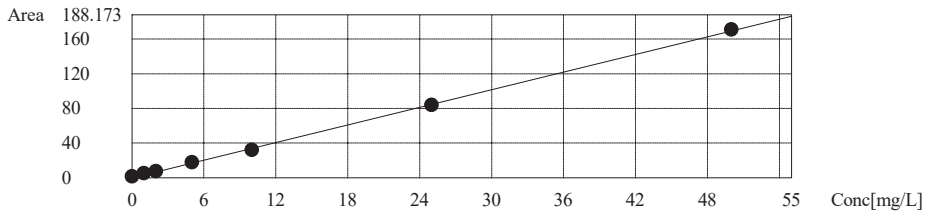
Acid Add. 1.500%
Sparge Gas Flow 80mL/min
Sp. Time 90.00sec
Mean Area 171.1



TOC-Control L Report

2024_02_01_005.tlx

Slope:	3.391
Intercept	0.000
r^2	0.9995
r	0.9998
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607917
Origin:	02.01.2024.CAL.cal
Status	Completed
Chk. Result	

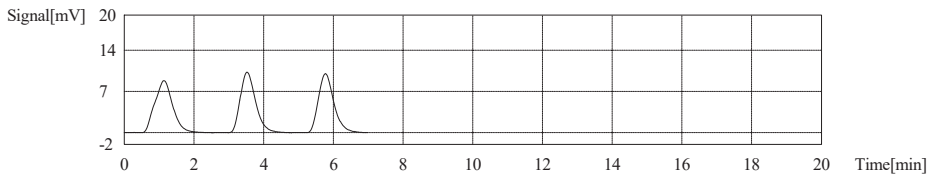
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.379mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	31.97	9.428mg/L	50uL	1.000		02.01.2024.CAL.2024_02_01_22_31_34.cal	2/2/2024 12:09:13 AM
2	31.76	9.366mg/L	50uL	1.000		02.01.2024.CAL.2024_02_01_22_31_34.cal	2/2/2024 12:11:42 AM
3	31.68	9.342mg/L	50uL	1.000		02.01.2024.CAL.2024_02_01_22_31_34.cal	2/2/2024 12:14:10 AM

Mean Area	31.80
Mean Conc.	9.379mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	02.01.2024.CAL.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.09710mg/L

1. Det

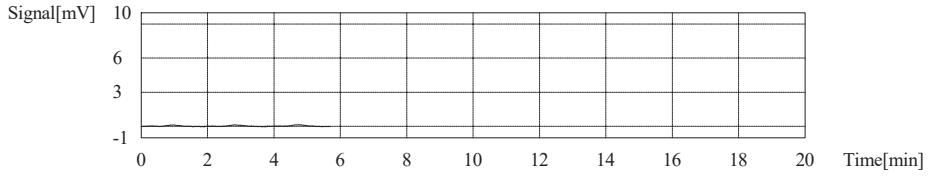
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2845	0.08390mg/L	50uL	1.000		02.01.2024.CAL.2024_02_01_22_31_34.cal	2/2/2024 12:21:44 AM
2	0.3319	0.09787mg/L	50uL	1.000		02.01.2024.CAL.2024_02_01_22_31_34.cal	2/2/2024 12:23:52 AM
3	0.3714	0.1095mg/L	50uL	1.000		02.01.2024.CAL.2024_02_01_22_31_34.cal	2/2/2024 12:25:59 AM

TOC-Control L Report

2024_02_01_005.tlx

Mean Area	0.3293
Mean Conc.	0.09710mg/L



HS24041274 Wetchem TOC_W INJECT TABLE

ALS WO# HS24041274

C:\TOC-L\Data\2024_04_24_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Result	Notes
1	Unknown	NPOC	CCV	3100608307	02.01.2024.CELL.c	NPOC:25.93mg/L	
2	Unknown	NPOC	CCB		02.01.2024.CELL.c	NPOC:0.1936mg/L	
3	Unknown	NPOC	MBLK-04242024		02.01.2024.CELL.c	NPOC:0.1761mg/L	
4	Unknown	NPOC	LCS-04242024	3100607917	02.01.2024.CELL.c	NPOC:10.13mg/L	
5	Unknown	NPOC	LCSD-04242024		02.01.2024.CELL.c	NPOC:10.14mg/L	
6	Unknown	NPOC	HS24040798-01DF10		02.01.2024.CELL.c	NPOC:3.946mg/L	
7	Unknown	NPOC	HS24040803-01		02.01.2024.CELL.c	NPOC:9.428mg/L	
8	Unknown	NPOC	HS24040803-01MS		02.01.2024.CELL.c	NPOC:18.79mg/L	
9	Unknown	NPOC	HS24040803-02		02.01.2024.CELL.c	NPOC:8.124mg/L	
10	Unknown	NPOC	HS24040803-03		02.01.2024.CELL.c	NPOC:15.47mg/L	
11	Unknown	NPOC	HS24040914-01		02.01.2024.CELL.c	NPOC:72.67mg/L	
12	Unknown	NPOC	HS24040914-02		02.01.2024.CELL.c	NPOC:86.28mg/L	
13	Unknown	NPOC	CCV	3100608307	02.01.2024.CELL.c	NPOC:26.73mg/L	
14	Unknown	NPOC	CCB		02.01.2024.CELL.c	NPOC:0.3835mg/L	
15	Unknown	NPOC	HS24040914-03		02.01.2024.CELL.c	NPOC:46.89mg/L	
16	Unknown	NPOC	HS24040914-04		02.01.2024.CELL.c	NPOC:8.638mg/L	
17	Unknown	NPOC	HS24040914-05		02.01.2024.CELL.c	NPOC:7.351mg/L	
18	Unknown	NPOC	HS24040914-07		02.01.2024.CELL.c	NPOC:46.42mg/L	
19	Unknown	NPOC	CCV	3100608307	02.01.2024.CELL.c	NPOC:26.34mg/L	
20	Unknown	NPOC	CCB		02.01.2024.CELL.c	NPOC:0.3380mg/L	
21	Unknown	NPOC	MBLK-04242024		02.01.2024.CELL.c	NPOC:0.2132mg/L	
22	Unknown	NPOC	LCS-04242024	3100607917	02.01.2024.CELL.c	NPOC:10.14mg/L	
23	Unknown	NPOC	LCSD-04242024		02.01.2024.CELL.c	NPOC:10.10mg/L	
24	Unknown	NPOC	HS24041274-01		02.01.2024.CELL.c	NPOC:17.88mg/L	
25	Unknown	NPOC	HS24041274-01MS		02.01.2024.CELL.c	NPOC:24.84mg/L	
26	Unknown	NPOC	HS24041294-01		02.01.2024.CELL.c	NPOC:67.28mg/L	
27	Unknown	NPOC	HS24041294-02		02.01.2024.CELL.c	NPOC:76.88mg/L	
28	Unknown	NPOC	HS24041294-03		02.01.2024.CELL.c	NPOC:78.89mg/L	
29	Unknown	NPOC	HS24041294-04		02.01.2024.CELL.c	NPOC:73.50mg/L	
30	Unknown	NPOC	HS24041294-05		02.01.2024.CELL.c	NPOC:92.94mg/L	
31	Unknown	NPOC	CCV	3100608307	02.01.2024.CELL.c	NPOC:27.12mg/L	
32	Unknown	NPOC	CCB		02.01.2024.CELL.c	NPOC:0.4638mg/L	
33	Unknown	NPOC	HS24041294-06		02.01.2024.CELL.c	NPOC:97.59mg/L	
34	Unknown	NPOC	HS24041294-07		02.01.2024.CELL.c	NPOC:119.8mg/L	
35	Unknown	NPOC	HS24041294-08		02.01.2024.CELL.c	NPOC:68.26mg/L	
36	Unknown	NPOC	HS24041294-10		02.01.2024.CELL.c	NPOC:65.23mg/L	
37	Unknown	NPOC	CCV	3100608307	02.01.2024.CELL.c	NPOC:26.15mg/L	
38	Unknown	NPOC	CCB		02.01.2024.CELL.c	NPOC:0.3531mg/L	
39	Unknown	NPOC	MBLK-04242024		02.01.2024.CELL.c	NPOC:0.2915mg/L	
40	Unknown	NPOC	LCS-04242024	3100607917	02.01.2024.CELL.c	NPOC:9.766mg/L	
41	Unknown	NPOC	LCSD-04242024		02.01.2024.CELL.c	NPOC:9.889mg/L	
42	Unknown	NPOC	HS24041294-11		02.01.2024.CELL.c	NPOC:26.67mg/L	
43	Unknown	NPOC	HS24041294-11MS		02.01.2024.CELL.c	NPOC:29.31mg/L	
44	Unknown	NPOC	HS24041294-12		02.01.2024.CELL.c	NPOC:74.69mg/L	
45	Unknown	NPOC	HS24041294-13		02.01.2024.CELL.c	NPOC:96.48mg/L	
46	Unknown	NPOC	HS24041324-01		02.01.2024.CELL.c	NPOC:47.84mg/L	
47	Unknown	NPOC	HS24040783-01		02.01.2024.CELL.c	NPOC:32.68mg/L	
48	Unknown	NPOC	HS24040783-03		02.01.2024.CELL.c	NPOC:29.22mg/L	
49	Unknown	NPOC	CCV	3100608307	02.01.2024.CELL.c	NPOC:25.71mg/L	
50	Unknown	NPOC	CCB		02.01.2024.CELL.c	NPOC:0.3000mg/L	
51	Unknown	NPOC	HS24040815-03		02.01.2024.CELL.c	NPOC:9.570mg/L	
52	Unknown	NPOC	HS24040815-04		02.01.2024.CELL.c	NPOC:9.756mg/L	
53	Unknown	NPOC	HS24040853-03		02.01.2024.CELL.c	NPOC:6.712mg/L	

C:\TOC-L\Data\2024_04_24_002.tlx

	Status	Date / Time	Vial
1	Completed	4/24/2024 6:52:39 PM	1
2	Completed	4/24/2024 7:01:32 PM	2
3	Completed	4/24/2024 7:11:35 PM	3
4	Completed	4/24/2024 7:22:40 PM	4
5	Completed	4/24/2024 7:32:48 PM	5
6	Completed	4/24/2024 7:41:53 PM	6
7	Completed	4/24/2024 7:52:58 PM	7
8	Completed	4/24/2024 8:02:59 PM	8
9	Completed	4/24/2024 8:13:28 PM	9
10	Completed	4/24/2024 8:23:50 PM	10
11	Completed	4/24/2024 8:33:48 PM	11
12	Completed	4/24/2024 8:44:16 PM	12
13	Completed	4/24/2024 9:05:36 PM	1
14	Completed	4/24/2024 9:14:28 PM	2
15	Completed	4/24/2024 9:34:29 PM	13
16	Completed	4/24/2024 9:44:12 PM	14
17	Completed	4/24/2024 9:54:05 PM	15
18	Completed	4/24/2024 10:05:13 PM	16
19	Completed	4/24/2024 10:25:53 PM	1
20	Completed	4/24/2024 10:34:43 PM	2
21	Completed	4/24/2024 10:44:47 PM	3
22	Completed	4/24/2024 10:55:57 PM	4
23	Completed	4/24/2024 11:05:52 PM	5
24	Completed	4/24/2024 11:25:51 PM	17
25	Completed	4/24/2024 11:36:13 PM	18
26	Completed	4/24/2024 11:46:29 PM	19
27	Completed	4/24/2024 11:56:42 PM	20
28	Completed	4/25/2024 12:06:57 AM	21
29	Completed	4/25/2024 12:17:11 AM	22
30	Completed	4/25/2024 12:27:22 AM	23
31	Completed	4/25/2024 12:37:47 AM	24
32	Completed	4/25/2024 12:46:40 AM	25
33	Completed	4/25/2024 12:57:56 AM	26
34	Completed	4/25/2024 1:18:34 AM	27
35	Completed	4/25/2024 1:28:38 AM	28
36	Completed	4/25/2024 1:38:43 AM	29
37	Completed	4/25/2024 1:59:29 AM	24
38	Completed	4/25/2024 2:08:22 AM	25
39	Completed	4/25/2024 2:27:19 AM	3
40	Completed	4/25/2024 2:38:23 AM	4
41	Completed	4/25/2024 2:48:24 AM	5
42	Completed	4/25/2024 3:08:36 AM	30
43	Completed	4/25/2024 3:19:00 AM	31
44	Completed	4/25/2024 3:29:08 AM	32
45	Completed	4/25/2024 3:39:30 AM	33
46	Completed	4/25/2024 3:50:08 AM	34
47	Completed	4/25/2024 4:00:23 AM	35
48	Completed	4/25/2024 4:10:18 AM	36
49	Completed	4/25/2024 4:31:39 AM	24
50	Completed	4/25/2024 4:40:32 AM	25
51	Completed	4/25/2024 5:00:38 AM	37
52	Completed	4/25/2024 5:10:46 AM	38
53	Completed	4/25/2024 5:20:13 AM	39

C:\TOC-L\Data\2024_04_24_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Result	Notes
54	Unknown	NPOC	CCV	3100608307	02.01.2024.CELL.c	NPOC:25.60mg/L	
55	Unknown	NPOC	CCB		02.01.2024.CELL.c	NPOC:0.2229mg/L	
56	Unknown	NPOC	CCV	3100608307	TOC_W 9060.met	NPOC:25.22mg/L	
57	Unknown	NPOC	CCB		TOC_W 9060.met	NPOC:0.2795mg/L	
58	Unknown	NPOC	MBLK-04242024		TOC_W 9060.met	NPOC:0.2213mg/L	
59	Unknown	NPOC	LCS-04242024	3100607917	TOC_W 9060.met	NPOC:0.05548mg/L	
60	Unknown	NPOC	LCSD-04242024		TOC_W 9060.met	NPOC:9.911mg/L	
61	Unknown	NPOC	HS24041538-14		TOC_W 9060.met	NPOC:157.9mg/L	
62	Unknown	NPOC	HS24041538-14MS		TOC_W 9060.met	NPOC:142.7mg/L	
63	Unknown	NPOC	HS24041538-15		TOC_W 9060.met	NPOC:132.5mg/L	
64	Unknown	NPOC	HS24041538-16		TOC_W 9060.met	NPOC:163.1mg/L	
65	Unknown	NPOC	HS24041538-17		TOC_W 9060.met	NPOC:241.2mg/L	
66	Unknown	NPOC	HS24040801-07		TOC_W 9060.met	NPOC:40.90mg/L	
67	Unknown	NPOC	CCV	3100608307	TOC_W 9060.met	NPOC:26.12mg/L	
68	Unknown	NPOC	CCB		TOC_W 9060.met	NPOC:0.5846mg/L	

	Status	Date / Time	Vial
54	Completed	4/25/2024 5:40:45 AM	41
55	Completed	4/25/2024 5:49:38 AM	42
56	Completed	4/25/2024 6:05:51 AM	41
57	Completed	4/25/2024 6:16:38 AM	42
58	Completed	4/25/2024 6:30:32 AM	3
59	Completed	4/25/2024 6:41:14 AM	4
60	Completed	4/25/2024 6:53:21 AM	5
61	Completed	4/25/2024 7:09:57 AM	43
62	Completed	4/25/2024 7:23:05 AM	44
63	Completed	4/25/2024 7:35:47 AM	45
64	Completed	4/25/2024 7:48:50 AM	46
65	Completed	4/25/2024 8:05:55 AM	47
66	Completed	4/25/2024 8:18:01 AM	48
67	Completed	4/25/2024 8:34:13 AM	41
68	Completed	4/25/2024 8:44:59 AM	42

HS24041274 Wetchem TOC_W INJECT

ALS WO# HS24041274

TOC-Control L Report

2024_04_24_002.tlx

Instr.Information

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

Sample

Sample Name: CCV
Sample ID: 3100608307
Origin: 02.01.2024.CELL.cal
Status: Completed
Chk. Result

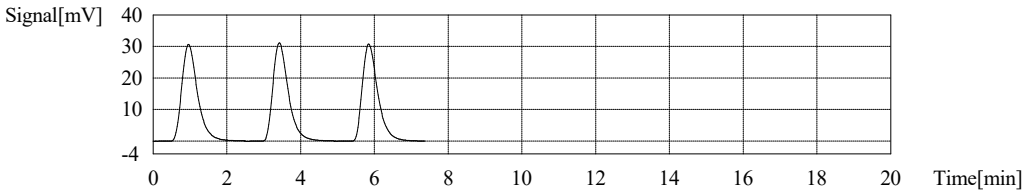
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.34mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.89	26.42mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 10:19:51 PM
2	90.03	26.46mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 10:22:51 PM
3	88.91	26.13mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 10:25:53 PM

Mean Area 89.61
Mean Conc. 26.34mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 02.01.2024.CELL.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3380mg/L

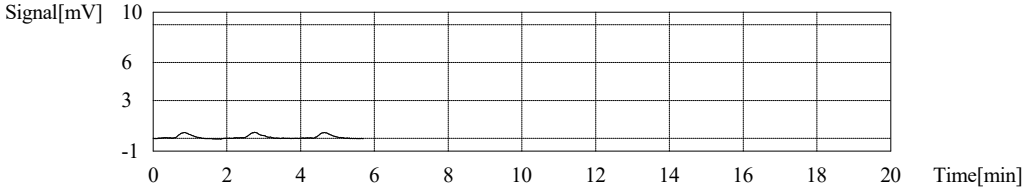
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.227	0.3606mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 10:29:47 PM
2	1.026	0.3015mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 10:32:15 PM
3	1.197	0.3518mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 10:34:43 PM

TOC-Control L Report

Mean Area 1.150
Mean Conc. 0.3380mg/L



Sample

Sample Name: MBLK-04242024
Sample ID:
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

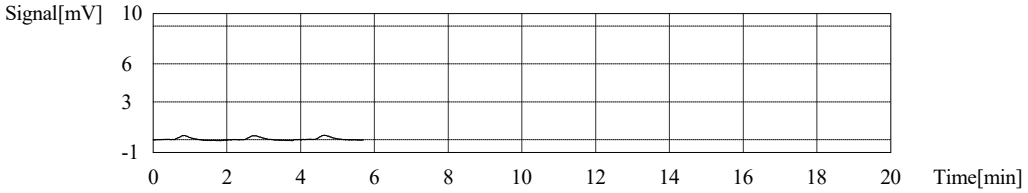
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2132mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6080	0.1787mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 10:39:51 PM
2	0.7900	0.2322mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 10:42:19 PM
3	0.7781	0.2287mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 10:44:47 PM

Mean Area 0.7254
Mean Conc. 0.2132mg/L



Sample

Sample Name: LCS-04242024
Sample ID: 3100607917
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

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

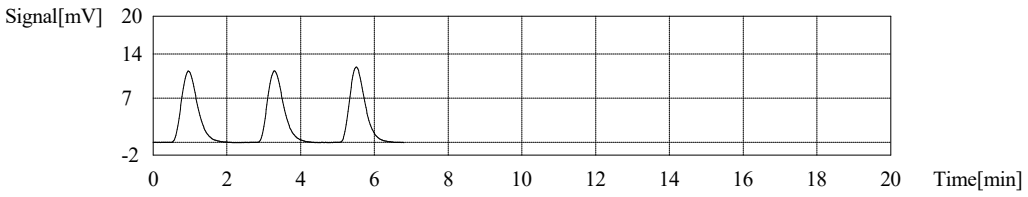
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.35	10.10mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 10:50:21 PM
2	34.44	10.12mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 10:53:08 PM
3	34.73	10.21mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 10:55:57 PM

TOC-Control L Report

Mean Area 34.51
Mean Conc. 10.14mg/L



Sample

Sample Name: LCSD-04242024
Sample ID:
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

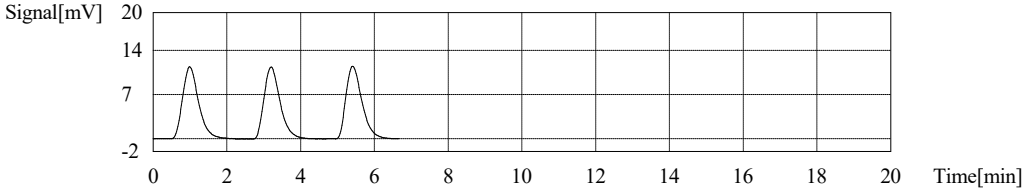
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.10mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	34.20	10.05mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 11:00:18 PM
2	34.35	10.10mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 11:03:06 PM
3	34.56	10.16mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 11:05:52 PM

Mean Area 34.37
Mean Conc. 10.10mg/L



Sample

Sample Name: HS24041274-01
Sample ID:
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.88mg/L

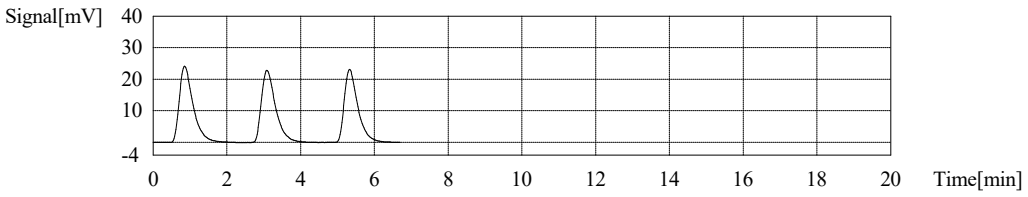
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	62.46	18.36mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 11:20:15 PM
2	61.15	17.97mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 11:23:03 PM
3	58.89	17.31mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 11:25:51 PM

TOC-Control L Report

Mean Area 60.83
Mean Conc. 17.88mg/L



Sample

Sample Name: HS24041274-01MS
Sample ID:
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

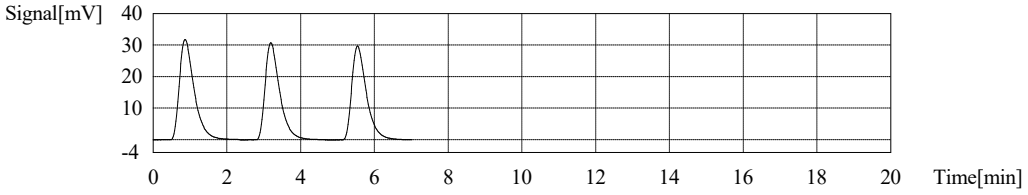
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.84mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.91	25.84mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 11:30:23 PM
2	83.89	24.66mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 11:33:18 PM
3	81.72	24.02mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/24/2024 11:36:13 PM

Mean Area 84.51
Mean Conc. 24.84mg/L



Sample

Sample Name: CCV
Sample ID: 3100608307
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.12mg/L

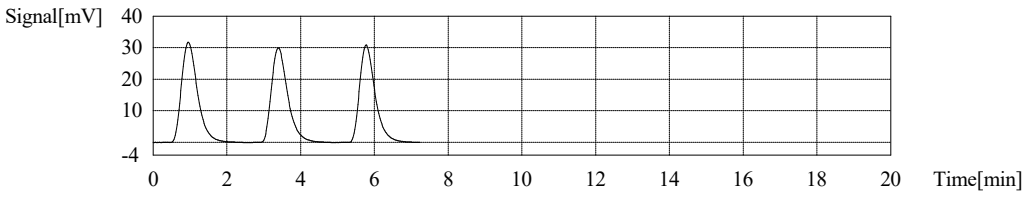
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	95.39	28.04mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/25/2024 12:31:49 AM
2	91.50	26.89mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/25/2024 12:34:47 AM
3	89.89	26.42mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/25/2024 12:37:47 AM

TOC-Control L Report

Mean Area 92.26
Mean Conc. 27.12mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

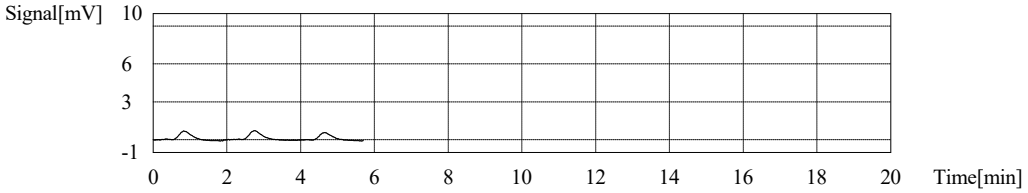
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4638mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.751	0.5146mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/25/2024 12:41:42 AM
2	1.611	0.4735mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/25/2024 12:44:11 AM
3	1.372	0.4032mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/25/2024 12:46:40 AM

Mean Area 1.578
Mean Conc. 0.4638mg/L



Sample

Sample Name: CCV
Sample ID: 3100608307
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.15mg/L

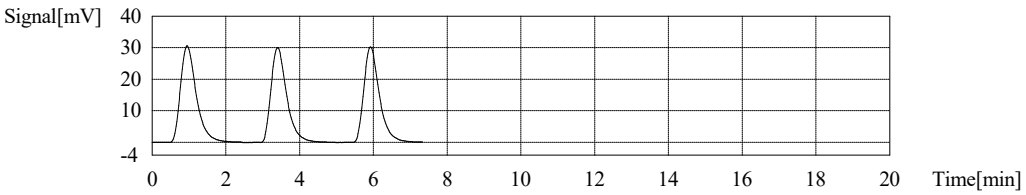
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	90.70	26.66mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/25/2024 1:53:26 AM
2	88.25	25.94mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/25/2024 1:56:31 AM
3	88.02	25.87mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/25/2024 1:59:29 AM

TOC-Control L Report

Mean Area 88.99
Mean Conc. 26.15mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 02.01.2024.CELL.cal
Status Completed
Chk. Result

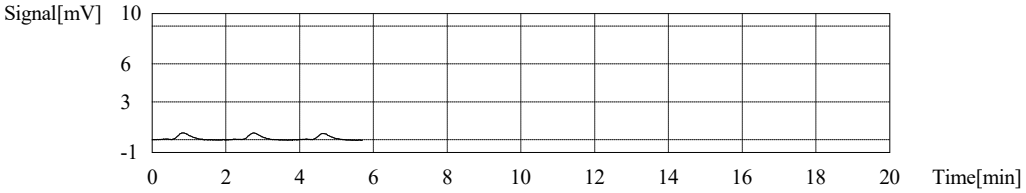
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3531mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.175	0.3453mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/25/2024 2:03:25 AM
2	1.152	0.3386mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/25/2024 2:05:53 AM
3	1.277	0.3753mg/L	50uL	1.000		02.01.2024.CELL.2024_02_01_15_55_40.cal	4/25/2024 2:08:22 AM

Mean Area 1.201
Mean Conc. 0.3531mg/L



HS24041274 E2400391 Perch Level IV Report

ALS WO# HS24041274

April 22, 2024 Service Request No:E2400391

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24041274

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory April 18, 2024
For your reference, these analyses have been assigned our service request number **E2400391.**

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 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

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

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400391
Project:	HS24041274	**Date Received:**	04/18/24
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 04/18/24.

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:

EQ2400188: 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:**E2400391
Project: HS24041274

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400391-001	LH18/24-SP650_041724_BIX	4/17/2024	1300
E2400391-002	LH18/24-SP650_041724_AIX	4/17/2024	1300

Service Request Summary

Folder #: **E2400391**
Client Name: ALS Environmental - US
Project Name: HS24041274
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 04/18/24
Internal Due Date: 4/19/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4C
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400391-001	LH18/24-SP650_041724_BIX	Water	04/17/24 1300	**IV***
E2400391-002	LH18/24-SP650_041724_AIX	Water	04/17/24 1300	**IV***

Service Request Summary

Folder #:	**E2400391**
Client Name:	ALS Environmental - US
Project Name:	HS24041274
Project Number:	

Report To:	Luis Aguilar ALS Environmental - US 10450 Stancliff Rd Suite 210 Houston, TX 77099 USA
Phone Number:	
Cell Number:	
Fax Number:	
E-mail:	luis.aguilar@alsglobal.com

Project Chemist:	Hussam Kelany
Originating Lab:	HOUSTON
Logged By:	JCORONADO2
Date Received:	04/18/24
Internal Due Date:	4/19/2024
QAP:	LAB QAP
Qualifier Set:	Lab Standard
Formset:	Lab Standard
Merged?:	Y
Report to MDL?:	Y
P.O. Number:	
EDD:	No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved

Location: EHRMS-WIC 4C

Pressure Gas:

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_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209423	4/24/2024
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	TX-C24-00109	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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E2400391 5
ALS Group USA, Corp.
HS24041274

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 25396**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	luis.aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24041274
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24041274-02**	**LH18/24-SP650_041724_BIX**	**Water**	**17 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			02 May 2024
2.	**HS24041274-03**	**LH18/24-SP650_041724_AIX**	**Water**	**17 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			02 May 2024

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: JC Date/Time: 4/18/24 1626

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

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Sample Receipt Checklist

Work Order ID: HS24041274 **Date/Time received:** 18 Apr 2024 10:00

Client name: Bhate Environmental Associates, Inc. **Received by:** Armand Morgan

Completed/By: 18 Apr 2024 16:26 Jacob Coronado (Date/Time, eSignature) **Reviewed/By:** (Date/Time, eSignature)

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	COC ID(s):	
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): 2.3uc/2.4c ir31

Cooler Information: 1 Cooler(s), 46037

Date/Time sample(s) sent to storage: 04/18/2024 1627

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by:

Login notes:

Client contacted: **Date contacted:** **Person contacted:**

Contacted by: **Regarding:**

Comments:

Corrective action:

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SAMPLE ACCEPTANCE POLICY

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

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

- ✓ Intact on outside of cooler, signed and dated

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

The following is required on each COC:

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

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

Sample Integrity (mandatory):

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

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

Temperature Requirement (varies by sample matrix):

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

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

Preparation Information Benchsheets

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Preparation Information Benchsheet

Prep Run#: 437153 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/19/24 09:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400354-001	2403190943B 200-D-240	.01	6850/ClO4 DOD			Water	10mL	
2	E2400358-001	LH18/24-SP140_041024	.01	6850/ClO4 DOD			Water	10mL	
3	E2400363-001	LH18/24-SP650_041024_AIX	.01	6850/ClO4 DOD			Water	10mL	
4	E2400378-001	LTMSW16-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
5	E2400378-002	LTMSW15-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
6	E2400378-003	FD01-SW-040824	.01	6850/ClO4 DOD			Surface Water	10mL	
7	E2400378-004	LTMSW14-040924	.01	6850/ClO4 DOD			Surface Water	10mL	
8	E2400378-005	LTMSW13-040924	.01	6850/ClO4 DOD			Surface Water	10mL	
9	E2400378-006	LTMSW12-040924	.03	6850/ClO4 DOD			Surface Water	10mL	
10	E2400381-001	2404091004A PL-1-486	.01	6850/ClO4 DOD			Water	10mL	
11	E2400391-001	LH18/24-SP650_041724_BIX	.01	6850/ClO4 DOD			Water	10mL	
12	E2400391-002	LH18/24-SP650_041724_AIX	.01	6850/ClO4 DOD			Water	10mL	
13	EQ2400188-01	MB		6850/ClO4 DOD			Liquid	10mL	
14	EQ2400188-02	LCS		6850/ClO4 DOD			Liquid	10mL	
15	EQ2400188-03	DLCS		6850/ClO4 DOD			Liquid	10mL	
16	EQ2400188-04	ICS		6850/ClO4 DOD			Liquid	10mL	
17	EQ2400188-05	LTMSW12-040924 MS	.03	6850/ClO4 DOD			Liquid	10mL	
18	EQ2400188-06	LTMSW12-040924 DMS	.03	6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400188-02 10.00µL EQ2400188-03 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400391-001 100.00µL E2400391-002 100.00µL EQ2400188-01 100.00µL EQ2400188-02 100.00µL EQ2400188-03 100.00µL EQ2400188-04 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400188-04 20.00µL

Preparation Materials

6850 0.45um syringe filters 6850 0.45 SYRING FILTER (229979) 6850 Luer-Lok Syringes Luer-Lok Syringes (228117)

Preparation Information Benchsheet

Prep Run#: 437153 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/JOSEL.JUAREZ **Prep Method:** **Prep Date/Time:** 4/19/24 09:00

Preparation Steps

Step: Preparation
Started: 4/19/24 09:00
Finished: 4/19/24 10:00
By: JOSEL.JUAREZ
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400391
Project:	HS24041274	**Date Collected:**	4/17/24 1300
Sample Matrix:	Water	**Date Received:**	4/18/24
Sample Name:	LH18/24-SP650_041724_BIX	**Units:**	µg/L
Lab Code:	E2400391-001	**Basis:**	NA

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

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.421**		0.100	0.0500	0.0250	1	4/19/24	4/19/24 12:07	437153	838403	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400391
Project:	HS24041274	**Date Collected:**	4/17/24 1300
Sample Matrix:	Water	**Date Received:**	4/18/24
Sample Name:	LH18/24-SP650_041724_AIX	**Units:**	µg/L
Lab Code:	E2400391-002	**Basis:**	NA

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

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.0959**	J	0.100	0.0500	0.0250	1	4/19/24	4/19/24 12:12	437153	838403	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400391
Project:	HS24041274	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400188-01	**Basis:**	NA

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

Analytical Method: 6850

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	4/19/24	4/19/24 11:44	437153	838403	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24041274
Sample Matrix: Water

Service Request: E2400391
Date Analyzed: 4/19/24

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

Analytical Method: 6850
Prep Method:

Units: µg/L
Basis: NA

Extraction Lot: 437153

	Lab Control Sample EQ2400188-02			Duplicate Lab Control Sample EQ2400188-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.111	0.100	111	0.118	0.100	118	84 - 119	6	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:**	E2400391
Project:	HS24041274	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400188-02	**Basis:**	NA

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

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.111**		0.100	0.0500	0.0250	1	4/19/24	4/19/24 11:50	437153	838403	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400391
Project:	HS24041274	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400188-03	**Basis:**	NA

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

Analytical Method: 6850

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.118**		0.100	0.0500	0.0250	1	4/19/24	4/19/24 11:56	437153	838403	

Initial Calibration

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835280

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240328-001	IB	Perchlorate6850c.lcm	1x		3/28/2024 18:50
2	20240328-002	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x	233572	3/28/2024 18:56
3	20240328-003	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x	233571	3/28/2024 19:01
4	20240328-004	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x	233570	3/28/2024 19:07
5	20240328-005	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x	233569	3/28/2024 19:12
6	20240328-006	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x	233568	3/28/2024 19:18
7	20240328-007	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x	233567	3/28/2024 19:23
8	20240328-008	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x	233566	3/28/2024 19:29
9	20240328-009	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x	233564	3/28/2024 19:34
10	20240328-010	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x	233563	3/28/2024 19:40
11	20240328-011	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x	233562	3/28/2024 19:46
12	20240328-012	PerchlorateICV	Perchlorate6850c.lcm	1x	230380	3/28/2024 19:51
13	20240328-013	IB	Perchlorate6850c.lcm	1x		3/28/2024 19:57
14	20240328-014	LODV	Perchlorate6850c.lcm	1x		3/28/2024 20:08
15	20240328-015	EQ2400151-04ICS	Perchlorate6850c.lcm	1x		3/28/2024 20:13
16	20240328-016	CCV	Perchlorate6850c.lcm	1x		3/28/2024 20:19
17	20240328-017	IB	Perchlorate6850c.lcm	1x		3/28/2024 20:24
18	20240328-018	EQ2400151-01MB	Perchlorate6850c.lcm	1x		3/28/2024 20:30
19	20240328-019	EQ2400151-02LCS	Perchlorate6850c.lcm	1x		3/28/2024 20:35
20	20240328-020	EQ2400151-03DLCS	Perchlorate6850c.lcm	1x		3/28/2024 20:41
21	20240328-022	E2400265-001	Perchlorate6850c.lcm	1x		3/28/2024 20:52
22	20240328-023	E2400268-001	Perchlorate6850c.lcm	1x		3/28/2024 20:58
23	20240328-024	E2400268-002	Perchlorate6850c.lcm	1x		3/28/2024 21:03
24	20240328-025	E2400271-001	Perchlorate6850c.lcm	1x		3/28/2024 21:09
25	20240328-026	E2400271-002	Perchlorate6850c.lcm	1x		3/28/2024 21:14
26	20240328-027	E2400296-001	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:20
27	20240328-028	CCV	Perchlorate6850c.lcm	1x		3/28/2024 21:25
28	20240328-029	IB	Perchlorate6850c.lcm	1x		3/28/2024 21:31
29	20240328-030	E2400296-002	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:36
30	20240328-031	E2400296-003	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:42
31	20240328-032	CCV	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:47
32	20240328-033	IB	Perchlorate6850c.lcm	1x	DNU ISs	3/28/2024 21:53

Initial Calibration - Detailed Report

Calibration ID: EC2400005 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400005-01	Perchlorate ICAL 1	20240328-002	03/28/2024 18:56
02	EC2400005-02	Perchlorate ICAL 2	20240328-003	03/28/2024 19:01
03	EC2400005-03	Perchlorate ICAL 3	20240328-004	03/28/2024 19:07
04	EC2400005-04	Perchlorate ICAL 4	20240328-005	03/28/2024 19:12
05	EC2400005-05	Perchlorate ICAL 5	20240328-006	03/28/2024 19:18
06	EC2400005-06	Perchlorate ICAL 6	20240328-007	03/28/2024 19:23
07	EC2400005-07	Perchlorate ICAL 7	20240328-008	03/28/2024 19:29
08	EC2400005-08	Perchlorate ICAL 8	20240328-009	03/28/2024 19:34
09	EC2400005-09	Perchlorate ICAL 9	20240328-010	03/28/2024 19:40
10	EC2400005-10	Perchlorate ICAL 10	20240328-011	03/28/2024 19:46

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

Perchlorate **Average RF** **RSD = 6.135** **Average RF = 0.1549**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000	0.1349	02	0.5000	0.1452	03	0.7000	0.1473	04	1.0000	0.1539
05	2.0000	0.1596	06	5.0000	0.1596	07	10.0000	0.1635	08	20.0000	0.1613
09	30.0000	0.1629	10	50.0000	0.161						

Analyte

Perchlorate RSE = 6.14

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000	0.0871	-12.9	02	0.5000	0.469	-6.3	03	0.7000	0.666	-4.9
04	1.0000	0.994	-0.6	05	2.0000	2.06	3.0	06	5.0000	5.15	3.0
07	10.0000	10.6	5.6	08	20.0000	20.8	4.1	09	30.0000	31.5	5.1
10	50.0000	52.0	3.9								

Initial Calibration Verification Summary Report

Calibration ID:	EC2400005	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240328-012	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400005-11	T	Average RF	10	10.397	ng/mL	4.0	<= 15

Insight Report

Printed at 3/29/2024 12:40:08 PM

IB

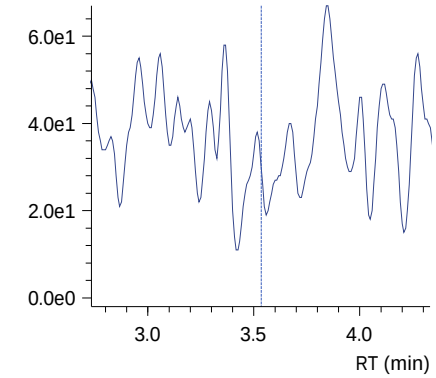
Sample ID: IB
Date Acquired: 3/28/2024 7:57:10 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	174347	----	ng/mL	101.00 >85.00	0.00	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.516	174347	174347	1.0000	ng/mL	----	----	

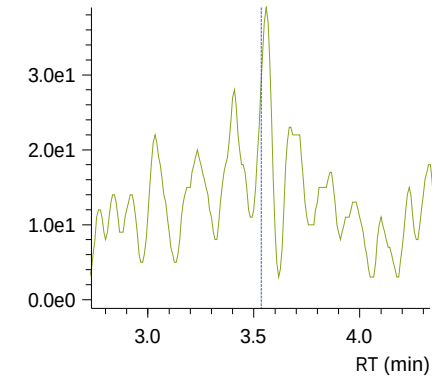
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 6.70e1



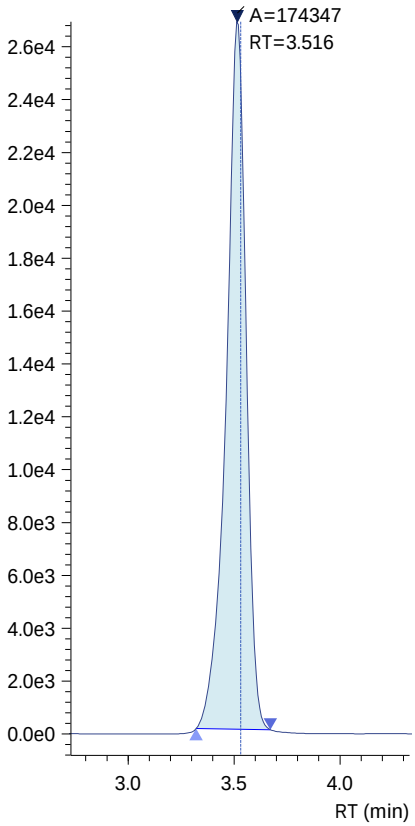
R1 101.00>85.00 (-) 3.90e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.69e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Method File: I:\LCMS01\DATA\20240328\20240328.lcm
Project File: I:\LCMS01\DATA\20240328\20240328.damlp

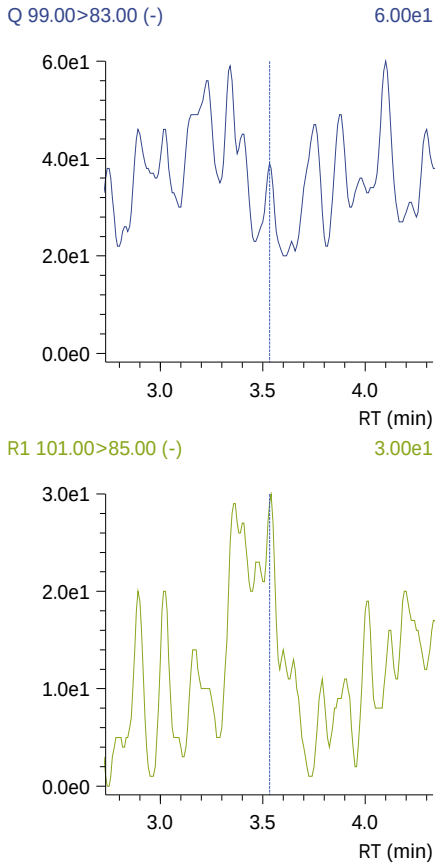
IB

Sample ID: IB
Date Acquired: 3/28/2024 6:50:29 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | 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)	----	----	242889	----	ng/mL	101.00 >85.00	0.00	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.523	242889	242889	1.0000	ng/mL	----	----	

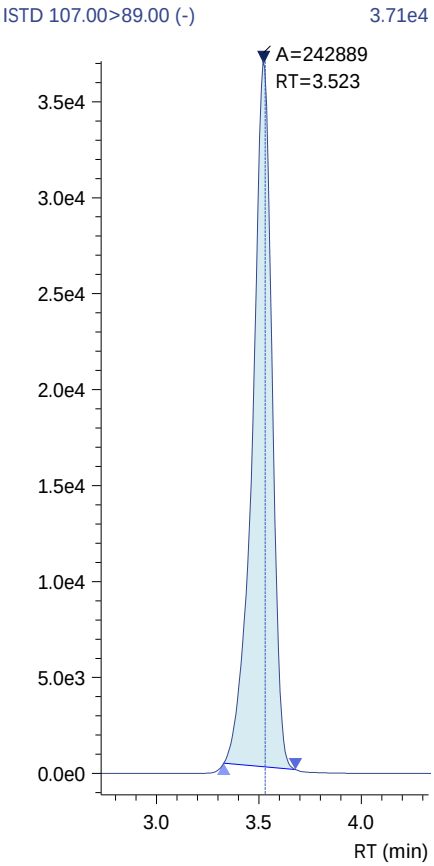
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

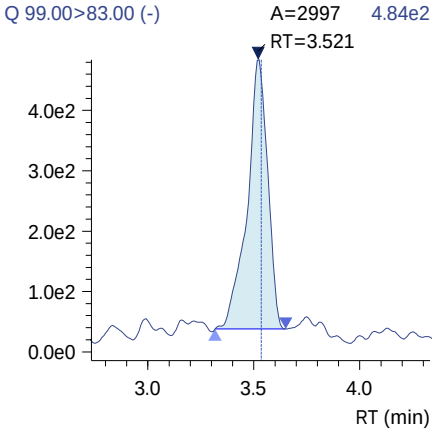
Perchlorate ICAL 1

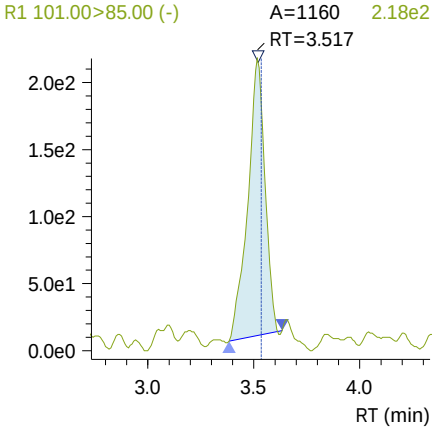
Sample ID: Perchlorate ICAL 1
Date Acquired: 3/28/2024 6:56:05 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	2997	222150	0.0871	ng/mL	101.00 >85.00	38.69	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.521	222150	222150	1.0000	ng/mL	----	----	

Perchlorate

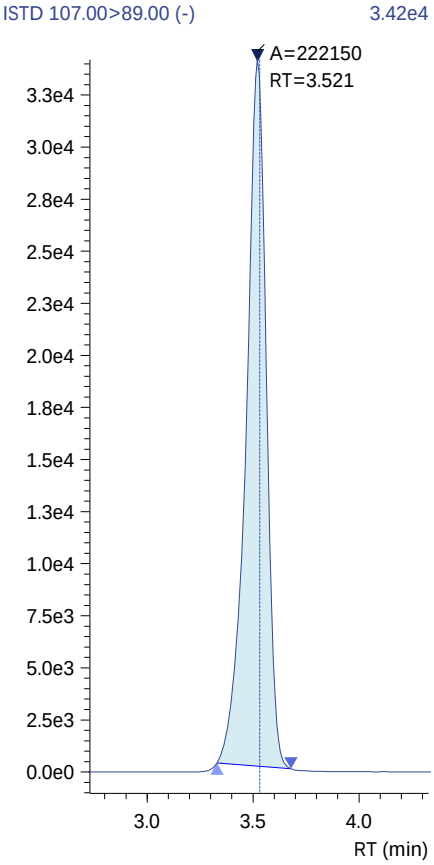
Conc 0.0871
R#1 38.69 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

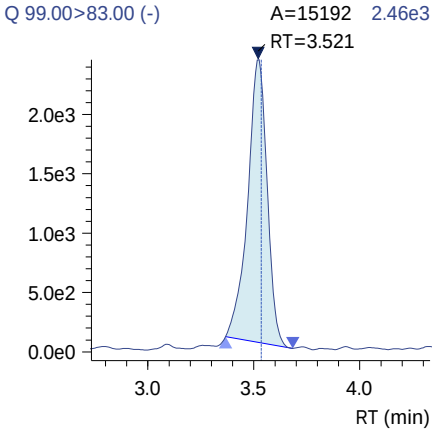
Perchlorate ICAL 2

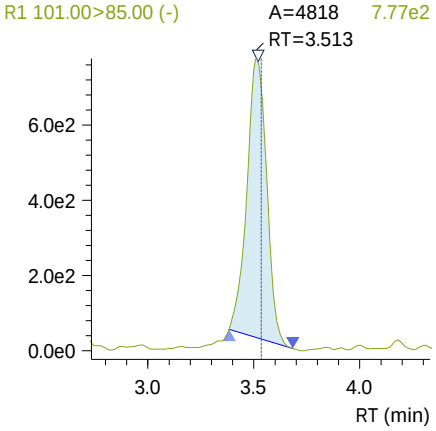
Sample ID: Perchlorate ICAL 2
Date Acquired: 3/28/2024 7:01:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-003.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	15192	209260	0.4686	ng/mL	101.00 >85.00	31.71	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.519	209260	209260	1.0000	ng/mL	----	----	

Perchlorate

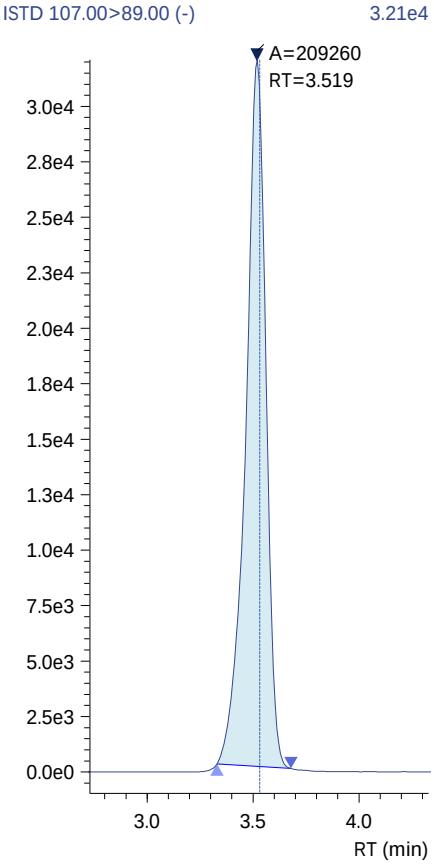
Conc 0.4686
R#1 31.71 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

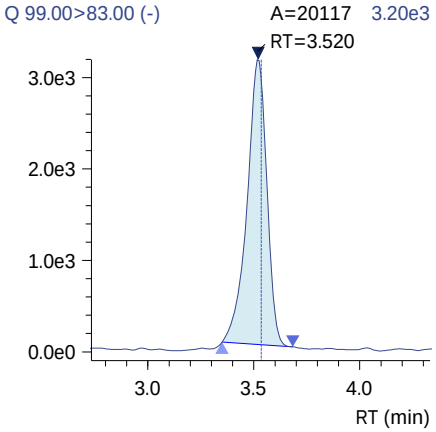
Perchlorate ICAL 3

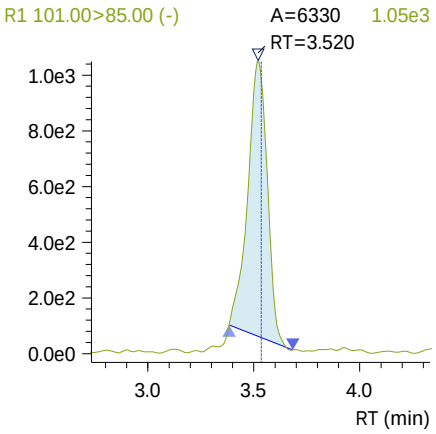
Sample ID: Perchlorate ICAL 3
Date Acquired: 3/28/2024 7:07:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-004.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.520	20117	195056	0.6657	ng/mL	101.00 >85.00	31.46	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.518	195056	195056	1.0000	ng/mL	----	----	

Perchlorate

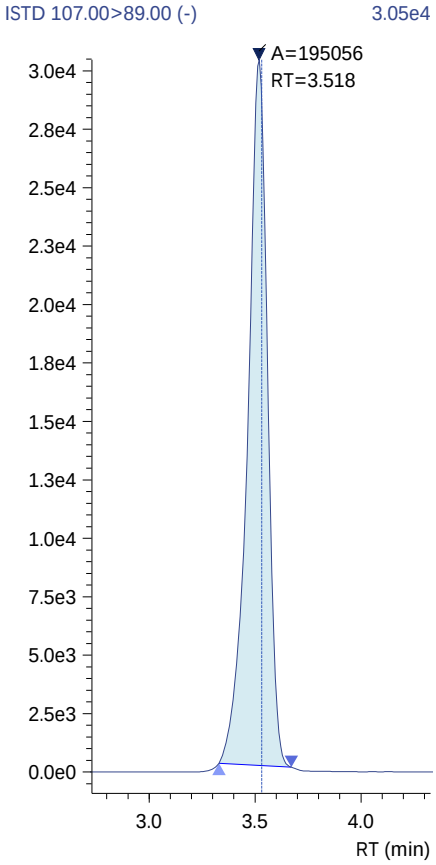
Conc 0.6657
R#1 31.46 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

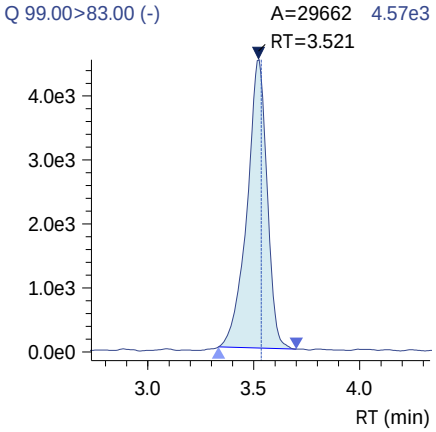
Perchlorate ICAL 4

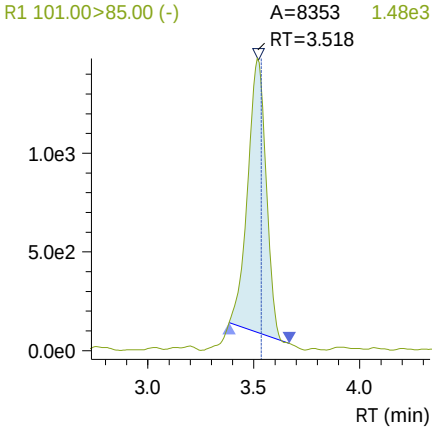
Sample ID: Perchlorate ICAL 4
Date Acquired: 3/28/2024 7:12:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-005.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	29662	192682	0.9936	ng/mL	101.00 >85.00	28.16	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.517	192682	192682	1.0000	ng/mL	----	----	

Perchlorate

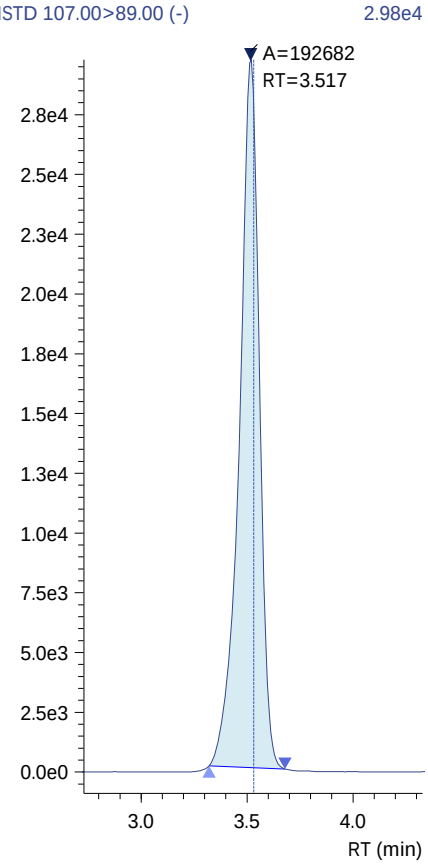
Conc 0.9936
R#1 28.16 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

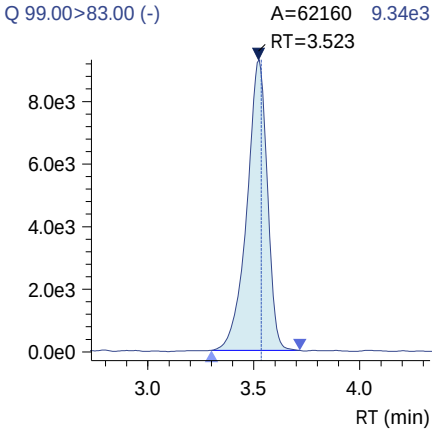
Perchlorate ICAL 5

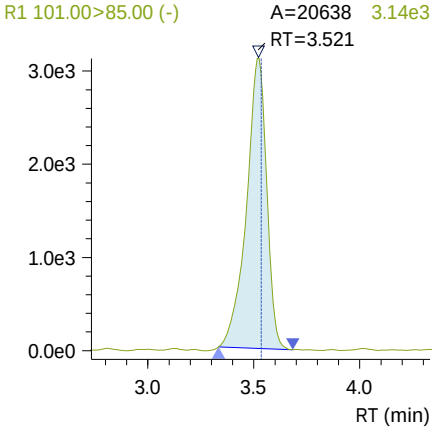
Sample ID: Perchlorate ICAL 5
Date Acquired: 3/28/2024 7:18:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-006.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.523	62160	194691	2.0607	ng/mL	101.00 >85.00	33.20	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.518	194691	194691	1.0000	ng/mL	----	----	

Perchlorate

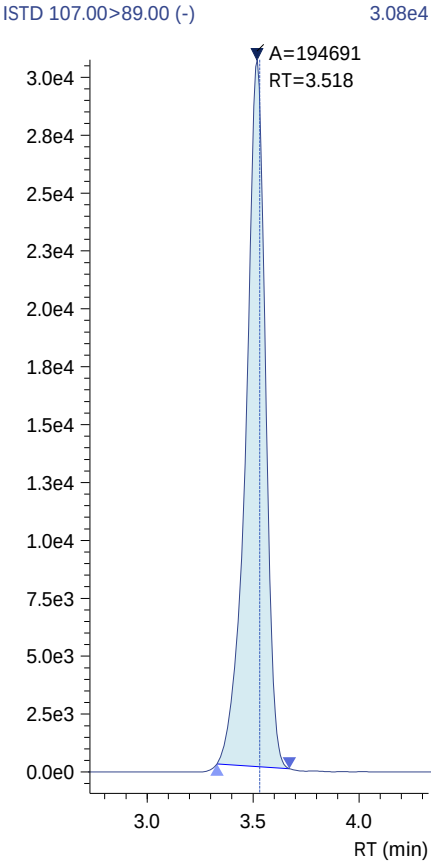
Conc 2.0607
R#1 33.20 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 6

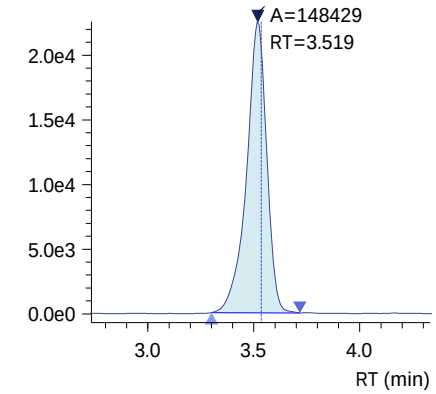
Sample ID: Perchlorate ICAL 6
Date Acquired: 3/28/2024 7:23:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-007.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	148429	185979	5.1511	ng/mL	101.00 >85.00	33.89	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.517	185979	185979	1.0000	ng/mL	----	----	

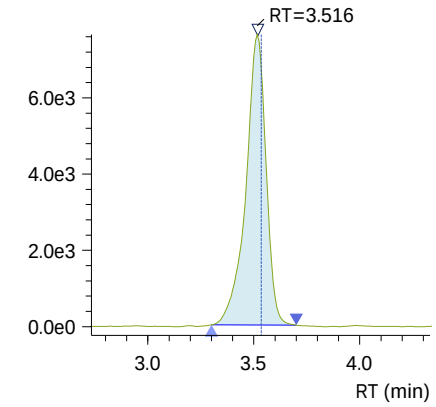
Perchlorate

Conc 5.1511
R#1 33.89 (34.10)

Q 99.00>83.00 (-) 2.26e4



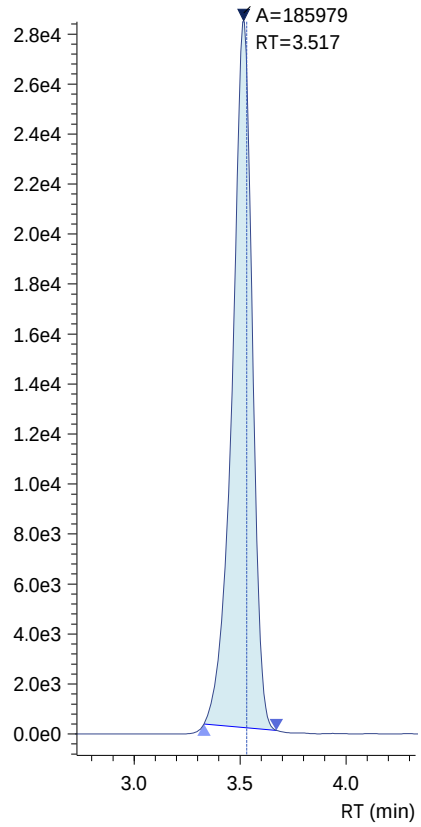
R1 101.00>85.00 (-) A=50306 7.66e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.85e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 7

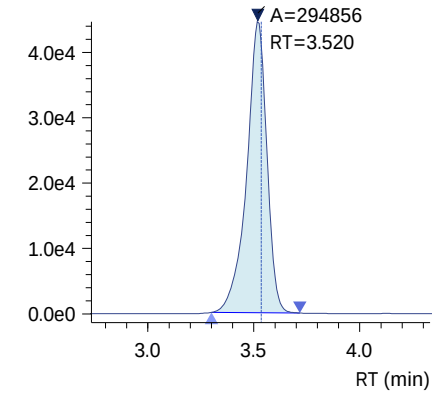
Sample ID: Perchlorate ICAL 7
Date Acquired: 3/28/2024 7:29:26 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-008.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.520	294856	180287	10.5 558	ng/mL	101.00 >85.00	32.92	22.32 -42.32
Sodium Perchlorate -18O4_IS	Auto	3.516	180287	180287	1.0000	ng/mL	----	----	

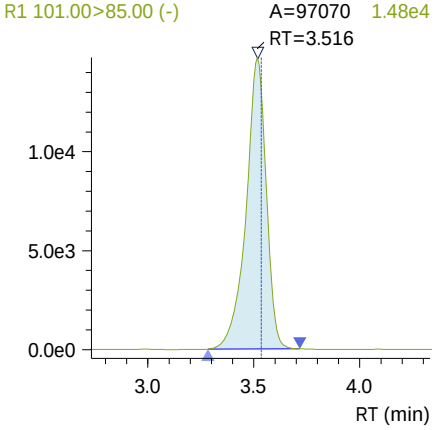
Perchlorate

Conc 10.5558
R#1 32.92 (34.10)

Q 99.00>83.00 (-) 4.47e4



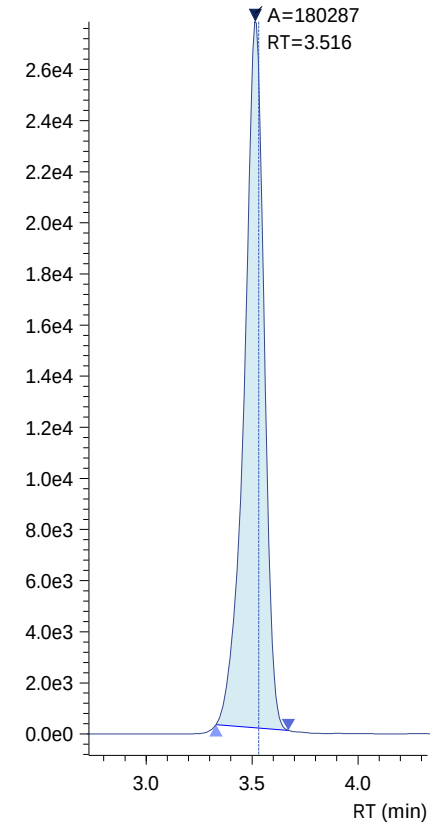
R1 101.00>85.00 (-) A=97070 1.48e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.79e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 8

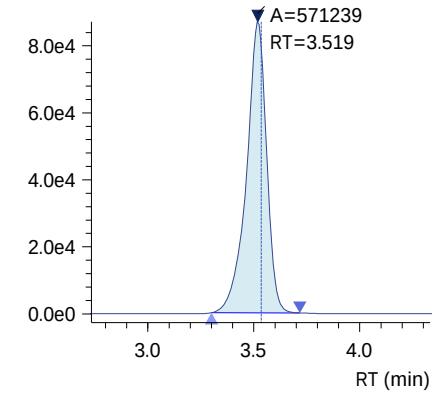
Sample ID: Perchlorate ICAL 8
Date Acquired: 3/28/2024 7:34:59 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-009.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	571239	177068	20.8	ng/mL	101.00	33.33	22.32
					220		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.515	177068	177068	1.0000	ng/mL	----	----	

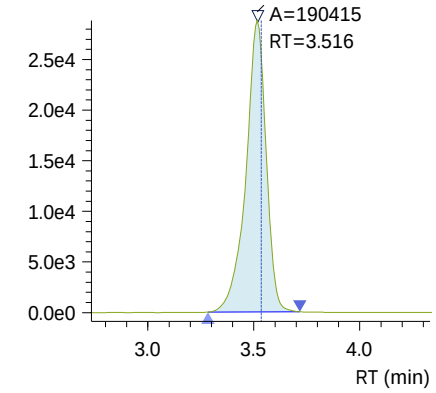
Perchlorate

Conc 20.8220
R#1 33.33 (34.10)

Q 99.00>83.00 (-) 8.72e4



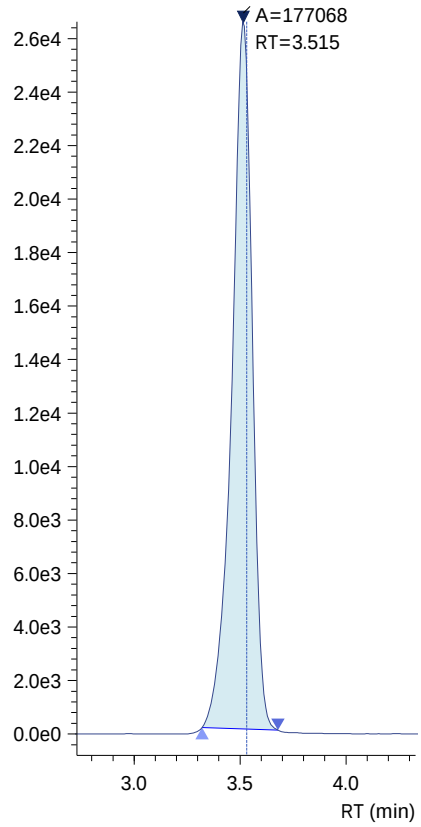
R1 101.00>85.00 (-) 2.89e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.66e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 9

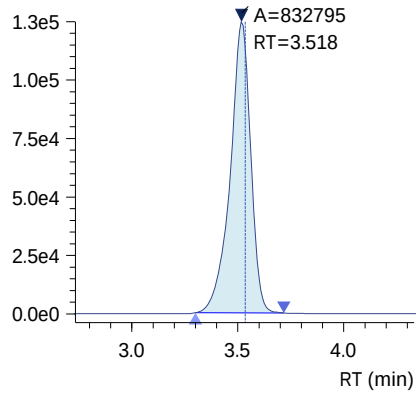
Sample ID: Perchlorate ICAL 9
Date Acquired: 3/28/2024 7:40:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-010.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.518	832795	170448	31.5	ng/mL	101.00	33.17	22.32
					348		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.515	170448	170448	1.0000	ng/mL	----	----	

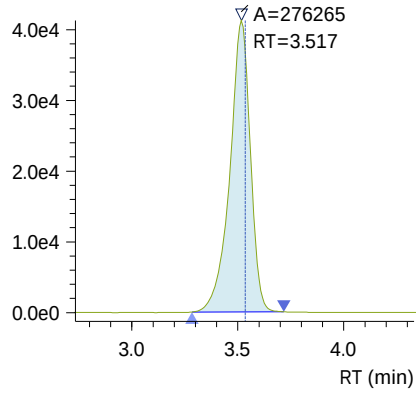
Perchlorate

Conc 31.5348
R#1 33.17 (34.10)

Q 99.00>83.00 (-) 1.25e5



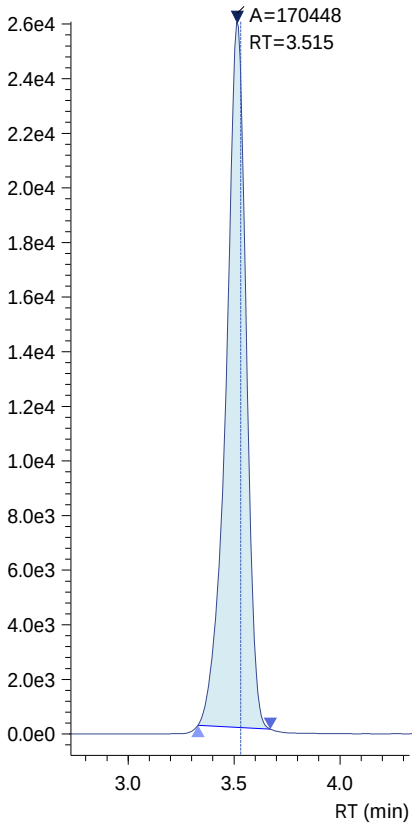
R1 101.00>85.00 (-) 4.13e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.61e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

Perchlorate ICAL 10

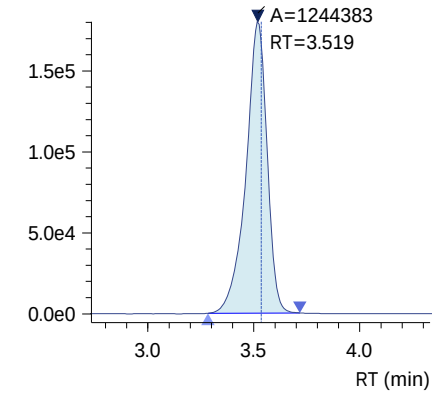
Sample ID: Perchlorate ICAL 10
Date Acquired: 3/28/2024 7:46:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-011.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	12443	154566	51.9	ng/mL	101.00	33.24	22.32
			83		618		>85.00		-42.32
Sodium Perchlorate -18O4_IS	Auto	3.516	154566	154566	1.0000	ng/mL	----	----	

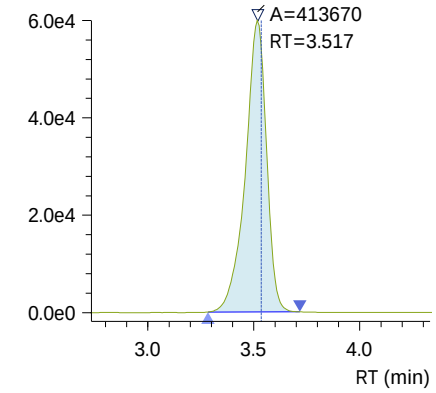
Perchlorate

Conc 51.9618
R#1 33.24 (34.10)

Q 99.00>83.00 (-) 1.80e5



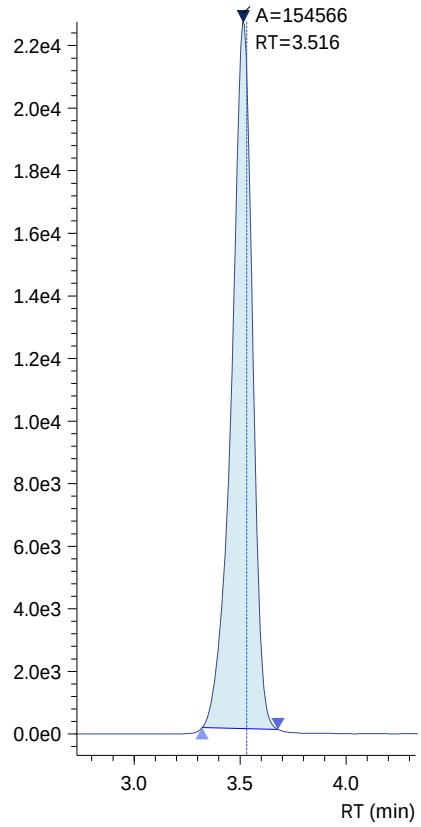
R1 101.00>85.00 (-) 6.00e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.28e4



Insight Report

Printed at 3/29/2024 12:40:08 PM

PerchlorateICV

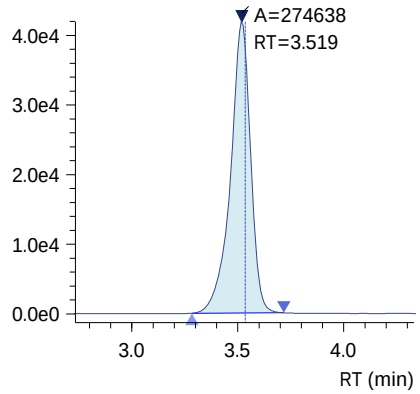
Sample ID: PerchlorateICV
Date Acquired: 3/28/2024 7:51:36 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240328\20240328-012.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.519	274638	170488	10.3971	ng/mL	101.00 >85.00	32.30	22.32 -42.32
Sodium Perchlorate-18O4_IS	Auto	3.515	170488	170488	1.0000	ng/mL	----	----	

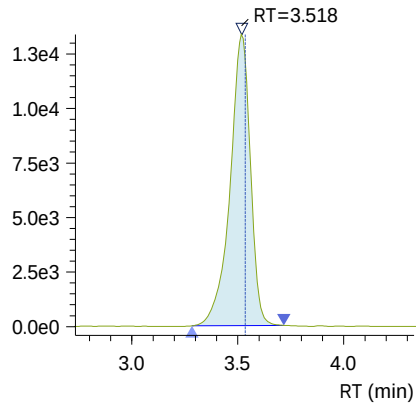
Perchlorate

Conc 10.3971
R#1 32.30 (34.10)

Q 99.00>83.00 (-) 4.20e4



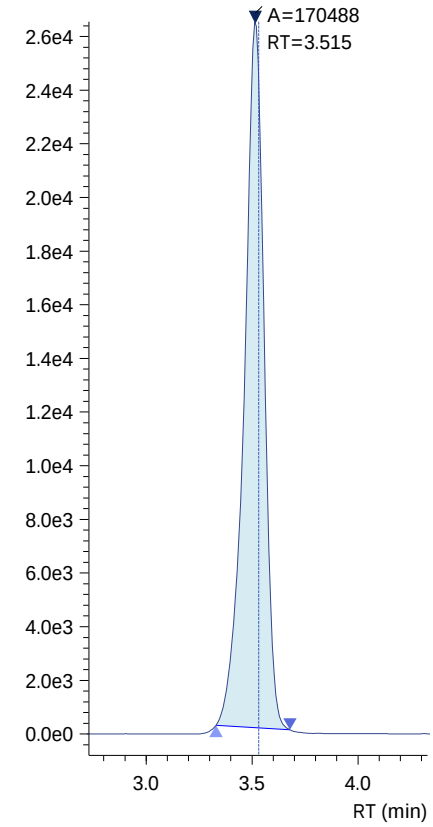
R1 101.00>85.00 (-) A=88704 1.34e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 2.66e4



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

837855

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240419-001	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:30
2	20240419-002	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:35
3	20240419-003	LODV	Perchlorate6850c.lcm	1x		4/19/2024 10:41
4	20240419-004	ICS	Perchlorate6850c.lcm	1x		4/19/2024 10:46
5	20240419-005	CCV	Perchlorate6850c.lcm	1x		4/19/2024 10:52
6	20240419-006	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:57
7	20240419-007	E2400391-001	Perchlorate6850c.lcm	1x	DNU Screen data	4/19/2024 11:18
8	20240419-008	E2400391-002	Perchlorate6850c.lcm	1x	DNU Screen data	4/19/2024 11:24
9	20240419-009	EQ2400188-01MB	Perchlorate6850c.lcm	1x		4/19/2024 11:44
10	20240419-010	EQ2400188-02LCS	Perchlorate6850c.lcm	1x		4/19/2024 11:50
11	20240419-011	EQ2400188-03DLCS	Perchlorate6850c.lcm	1x		4/19/2024 11:56
12	20240419-012	EQ2400188-04ICS	Perchlorate6850c.lcm	1x		4/19/2024 12:01
13	20240419-013	E2400391-001	Perchlorate6850c.lcm	1x		4/19/2024 12:07
14	20240419-014	E2400391-002	Perchlorate6850c.lcm	1x		4/19/2024 12:12
15	20240419-015	EQ2400188-05MS	Perchlorate6850c.lcm	1x		4/19/2024 12:37
16	20240419-016	EQ2400188-06MSD	Perchlorate6850c.lcm	1x		4/19/2024 12:42
17	20240419-017	CCV	Perchlorate6850c.lcm	1x		4/19/2024 12:48
18	20240419-018	IB	Perchlorate6850c.lcm	1x		4/19/2024 12:53
19	20240419-019	E2400354-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 12:59
20	20240419-020	E2400358-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:04
21	20240419-021	E2400363-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:10
22	20240419-022	E2400378-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:15
23	20240419-023	E2400378-002	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:21
24	20240419-024	E2400378-003	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:26
25	20240419-025	E2400378-004	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:32
26	20240419-026	E2400378-005	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:37
27	20240419-027	E2400378-006	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:43
28	20240419-028	E2400381-001	Perchlorate6850c.lcm	100x	DNU Screen data	4/19/2024 13:48
29	20240419-029	CCV	Perchlorate6850c.lcm			4/19/2024 14:31
30	20240419-030	IB	Perchlorate6850c.lcm			4/19/2024 14:37
31	20240419-031	E2400354-001	Perchlorate6850c.lcm	1x	DNU Iss	4/19/2024 14:42
32	20240419-032	E2400363-001	Perchlorate6850c.lcm	1x		4/19/2024 14:48
33	20240419-033	E2400378-001	Perchlorate6850c.lcm	1x		4/19/2024 14:54
34	20240419-034	E2400378-002	Perchlorate6850c.lcm	1x		4/19/2024 14:59
35	20240419-035	E2400378-003	Perchlorate6850c.lcm	1x		4/19/2024 15:05
36	20240419-036	E2400378-004	Perchlorate6850c.lcm	1x		4/19/2024 15:10
37	20240419-037	E2400378-005	Perchlorate6850c.lcm	1x		4/19/2024 15:16
38	20240419-038	E2400378-006	Perchlorate6850c.lcm	1x		4/19/2024 15:21
39	20240419-039	E2400381-001	Perchlorate6850c.lcm	1x	DNU Iss	4/19/2024 15:27
40	20240419-040	E2400358-001x1000	Perchlorate6850c.lcm	1000x		4/19/2024 15:32

837855

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 3/28/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400005

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
41	20240419-041	CCV	Perchlorate6850c.lcm			4/19/2024 15:38
42	20240419-042	IB	Perchlorate6850c.lcm			4/19/2024 15:43
43	20240419-043	E2400354-001RI	Perchlorate6850c.lcm		DNU Re-injection confirmation	4/19/2024 15:49
44	20240419-044	E2400354-001X10	Perchlorate6850c.lcm			4/19/2024 15:54
45	20240419-045	E2400381-001RI	Perchlorate6850c.lcm		DNU Re-injection confirmation	4/19/2024 16:00
46	20240419-046	E2400381-001x10	Perchlorate6850c.lcm			4/19/2024 16:05
47	20240419-047	LCSTW1	Perchlorate6850c.lcm			4/19/2024 16:11
48	20240419-048	LCSTW2	Perchlorate6850c.lcm			4/19/2024 16:17
49	20240419-049	LCSTW3	Perchlorate6850c.lcm			4/19/2024 16:22
50	20240419-050	LCSTW4	Perchlorate6850c.lcm			4/19/2024 16:28
51	20240419-051	LCSNV1	Perchlorate6850c.lcm			4/19/2024 16:33
52	20240419-052	LCSNV2	Perchlorate6850c.lcm			4/19/2024 16:39
53	20240419-053	CCV	Perchlorate6850c.lcm			4/19/2024 16:44
54	20240419-054	IB	Perchlorate6850c.lcm			4/19/2024 16:50
55	20240419-055	LCSNV3	Perchlorate6850c.lcm			4/19/2024 16:55
56	20240419-056	LCSNV4	Perchlorate6850c.lcm			4/19/2024 17:01
57	20240419-057	CCV	Perchlorate6850c.lcm			4/19/2024 17:07
58	20240419-058	IB	Perchlorate6850c.lcm			4/19/2024 17:12

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400391
Project:	HS24041274	**Date Analyzed:**	4/19/24 10:52

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

File ID:	I:\LCMS01\DATA\20240419\20240419-005	**Lab Code:**	EQ2400189-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838403
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400189-01	122,793	3.55
Method Blank	EQ2400188-01	134,100	3.54
Lab Control Sample	EQ2400188-02	131,541	3.54
Duplicate Lab Control Sample	EQ2400188-03	132,507	3.54
LH18/24-SP650_041724_BIX	E2400391-001	137,582	3.54
LH18/24-SP650_041724_AIX	E2400391-002	136,284	3.54

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:**	E2400391
Project:	HS24041274	**Date Analyzed:**	4/19/24 12:48

Internal Standard Area and RT Summary

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

File ID:	I:\LCMS01\DATA\20240419\20240419-017	**Lab Code:**	EQ2400189-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	838403
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	188,219	3.52
	Upper Limit ==>	282,329	5.52
	Lower Limit ==>	94,110	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400189-02	126,867	3.54

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: HS24041274

Service Request: E2400391
Date Analyzed: 4/19/24

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\20240419\20240419-005

Calibration Date: 3/28/24
Calibration ID: EC2400005
Analysis Lot: 838403
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	9.69	0.1549	0.1501	-3.1	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400391
Project:	HS24041274	**Date Analyzed:**	4/19/24

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

Analytical Method:	6850	**Calibration Date:**	3/28/24
File ID:	I:\LCMS01\DATA\20240419\20240419-017	**Calibration ID:**	EC2400005
		Analysis Lot:	838403
		Units:	ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.1	0.1549	0.1566	1.1	NA	± 15 %	Average RF

Insight Report

Printed at 4/19/2024 2:06:37 PM

IB

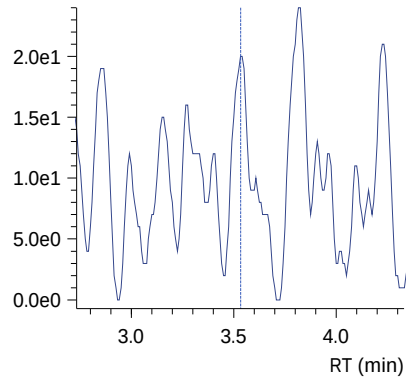
Sample ID: IB
Date Acquired: 4/19/2024 12:53:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-018.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	144538	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	M	3.540	144538	144538	1.0000	ng/mL	----	----	

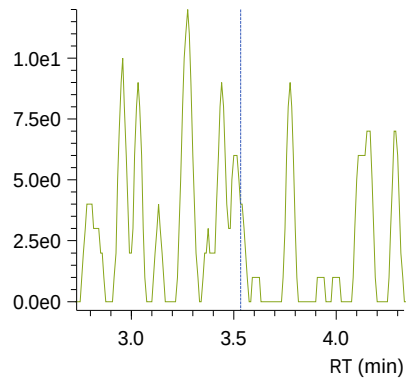
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.40e1



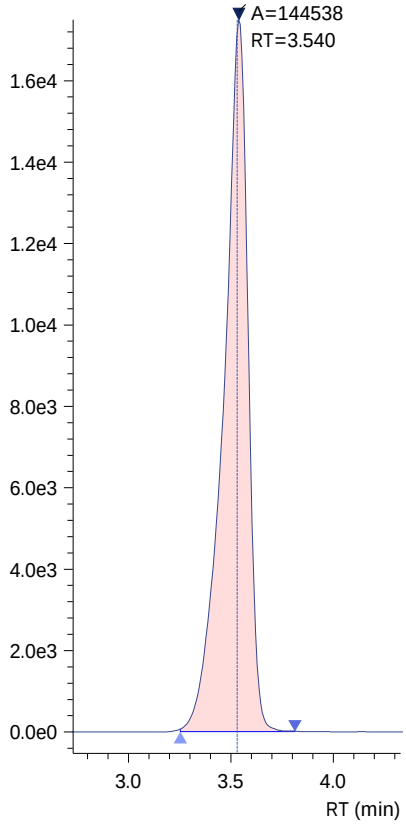
R1 101.00>85.00 (-) 1.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.75e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

Method File: I:\LCMS01\DATA\20240419\20240419.lcm
Project File: I:\LCMS01\DATA\20240419\20240419.damlp

IB

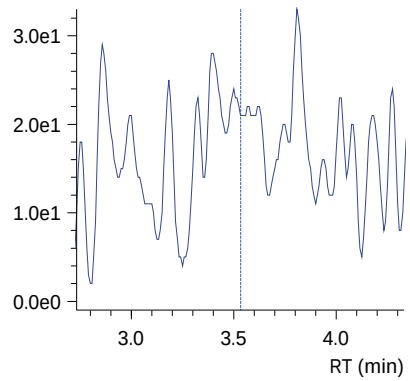
Sample ID: IB
Date Acquired: 4/19/2024 10:30:08 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	155603	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.554	155603	155603	1.0000	ng/mL	----	----	

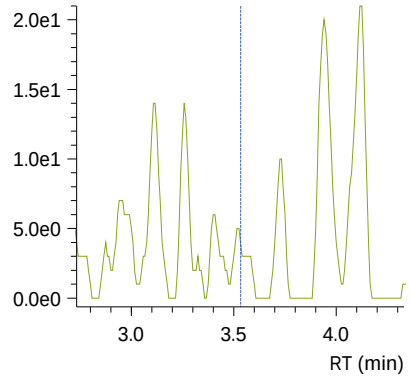
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.30e1



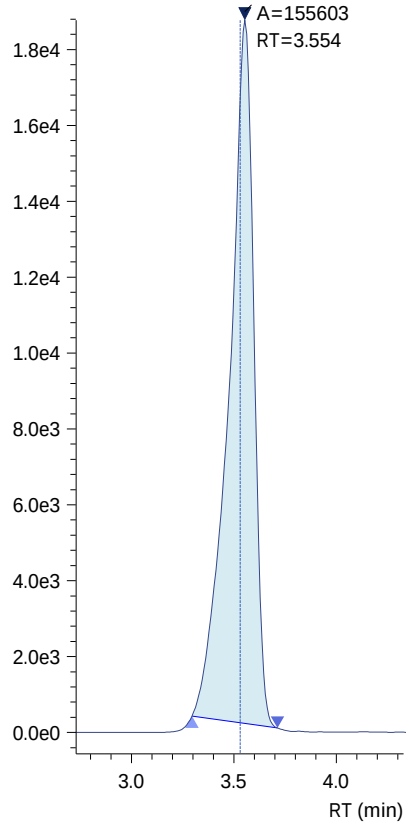
R1 101.00>85.00 (-) 2.10e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.88e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

IB

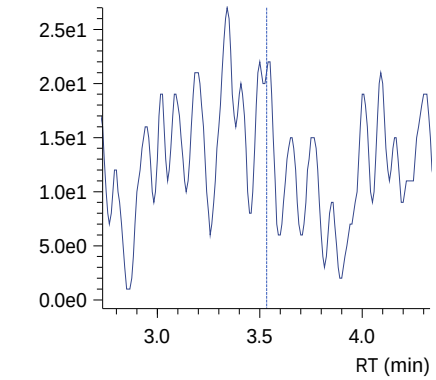
Sample ID: IB
Date Acquired: 4/19/2024 10:35:38 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	149340	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.558	149340	149340	1.0000	ng/mL	----	----	

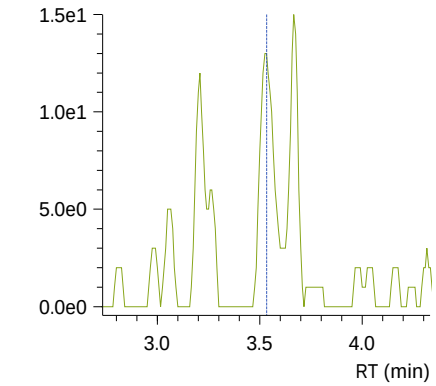
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.70e1



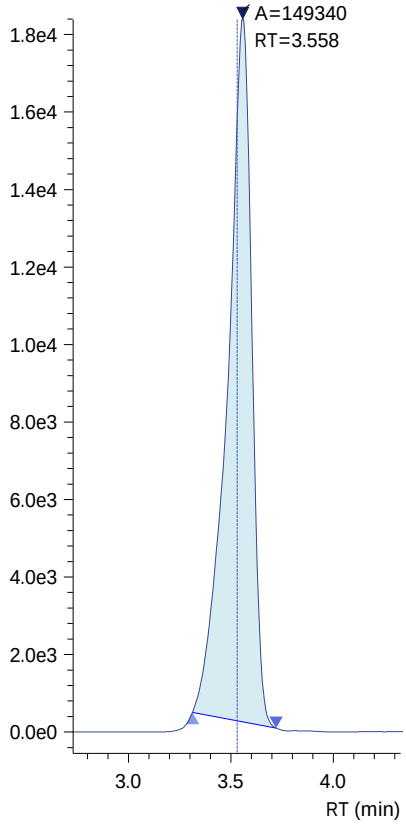
R1 101.00>85.00 (-) 1.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.84e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

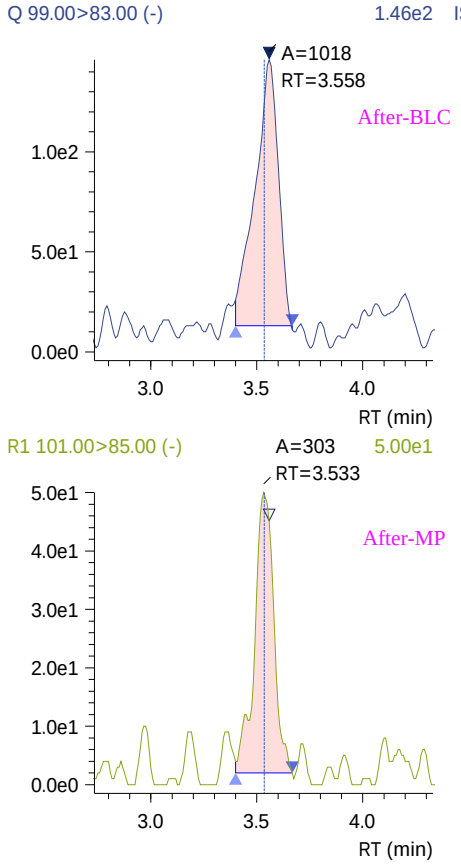
LODV

Sample ID: LODV
Date Acquired: 4/19/2024 10:41:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.558	1018	133677	0.0492	ng/mL	101.00 >85.00	29.76	26.31 -43.47
Sodium Perchlorate-18O4 _IS	Auto	3.553	133677	133677	1.0000	ng/mL	----	----	

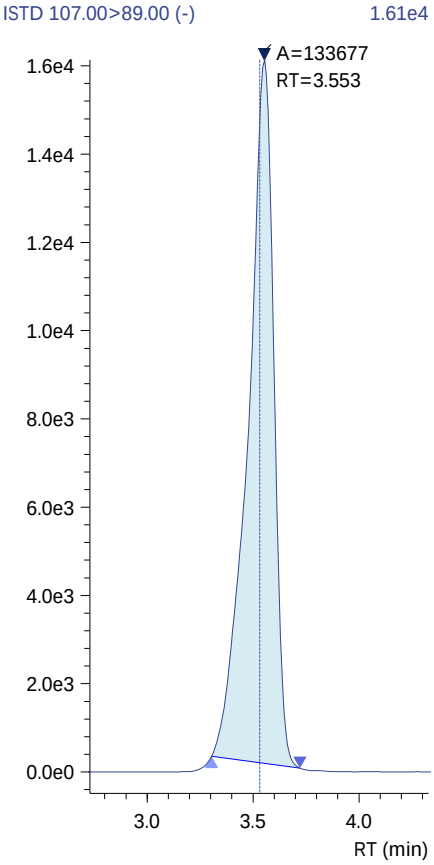
Perchlorate

Conc 0.0492
R#1 29.76 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Method File: I:\LCMS01\DATA\20240419\20240419.lcm
Project File: I:\LCMS01\DATA\20240419\20240419.damlp

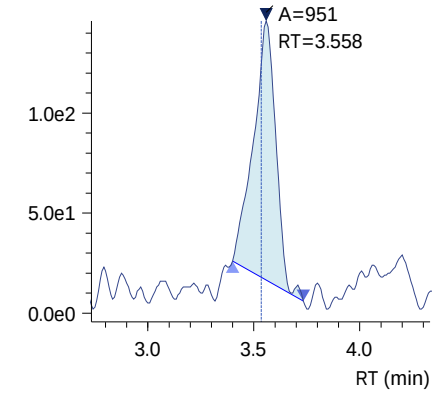
LODV

Sample ID: LODV
Date Acquired: 4/19/2024 10:41:12 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

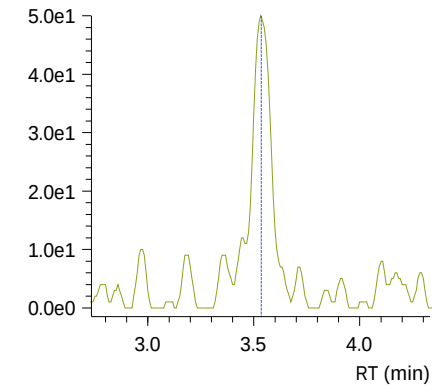
Perchlorate

Conc 0.0459
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.46e2



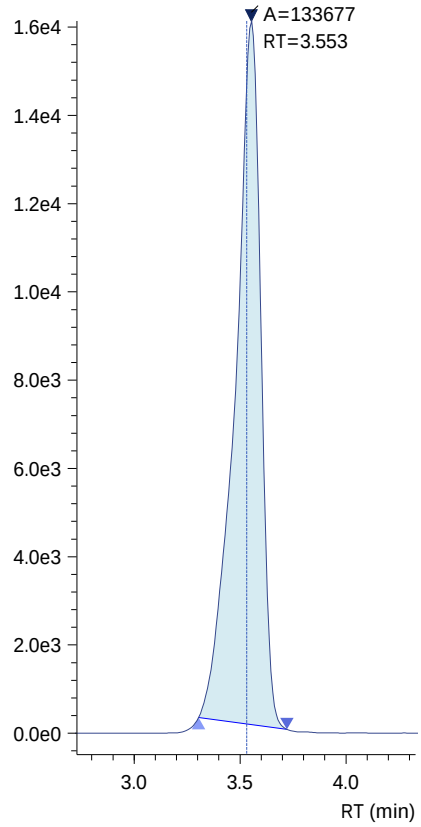
R1 101.00>85.00 (-) 5.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

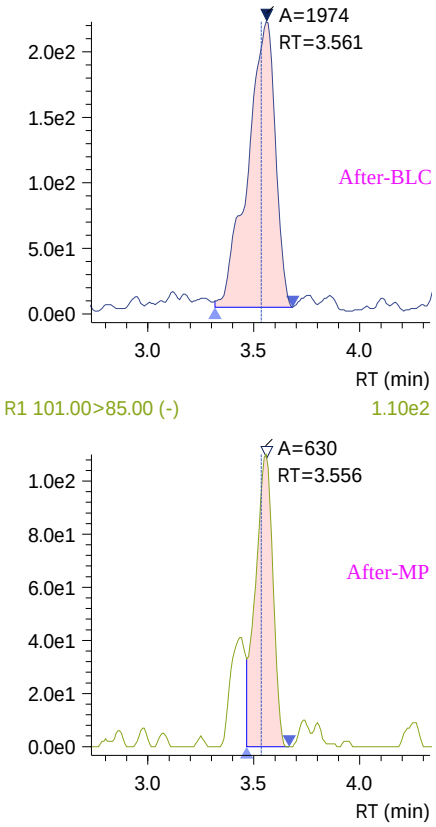
ICS

Sample ID: ICS
Date Acquired: 4/19/2024 10:46:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.561	1974	139796	0.0911	ng/mL	101.00 >85.00	31.92	26.31 -43.47
Sodium Perchlorate-18O4 _IS	Auto	3.549	139796	139796	1.0000	ng/mL	----	----	

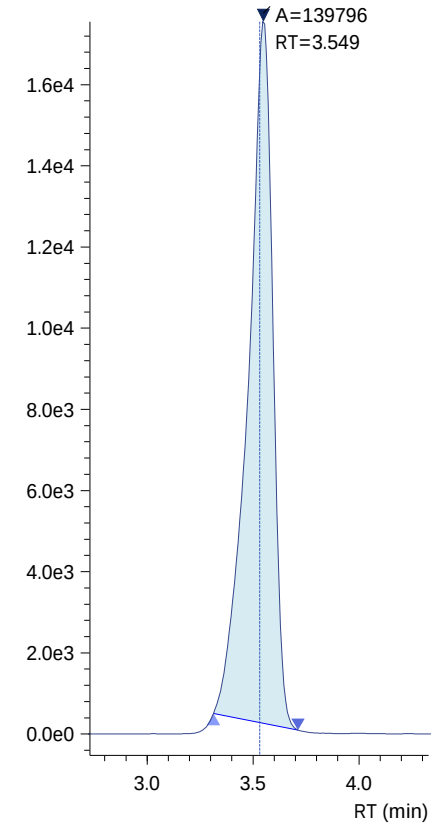
Perchlorate

Conc 0.0911
R#1 31.92 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

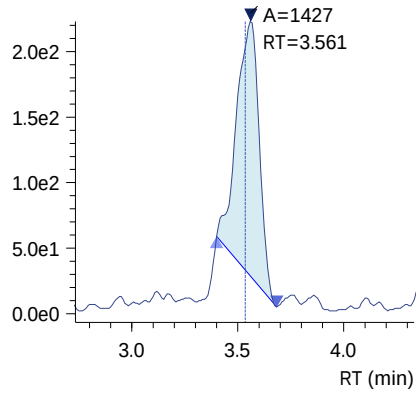
ICS

Sample ID: ICS
Date Acquired: 4/19/2024 10:46:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

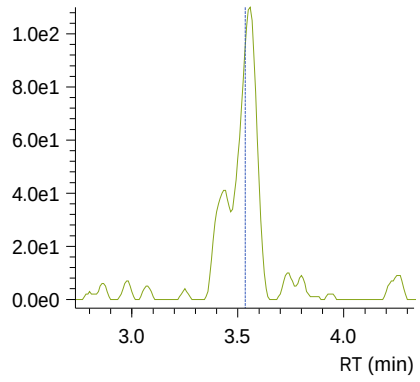
Perchlorate

Conc 0.0659
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.23e2



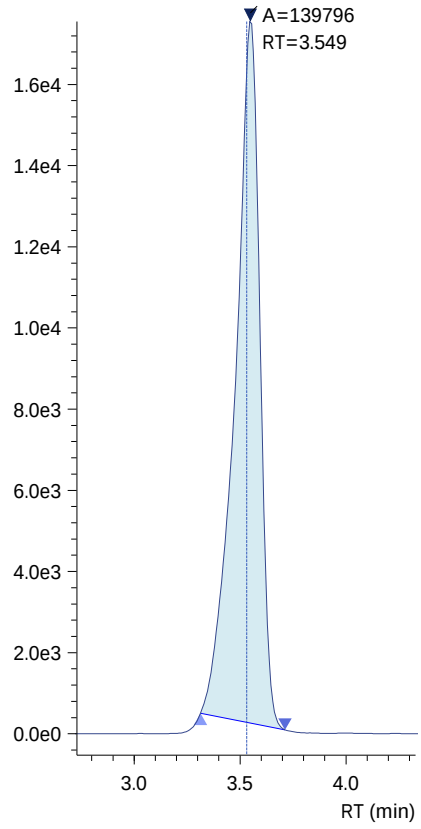
R1 101.00>85.00 (-) 1.10e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.76e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

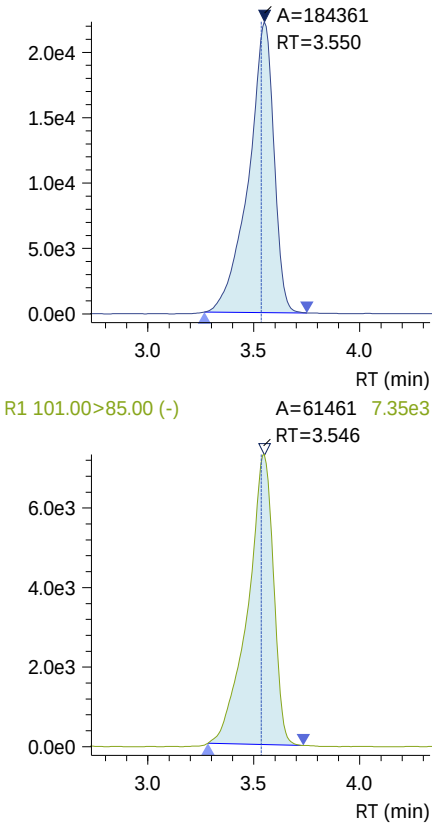
CCV

Sample ID: CCV
Date Acquired: 4/19/2024 10:52:14 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.550	184361	122793	9.6904	ng/mL	101.00	33.34	26.31
							>85.00		-43.47
Sodium Perchlorate-18O4_IS	Auto	3.547	122793	122793	1.0000	ng/mL	----	----	

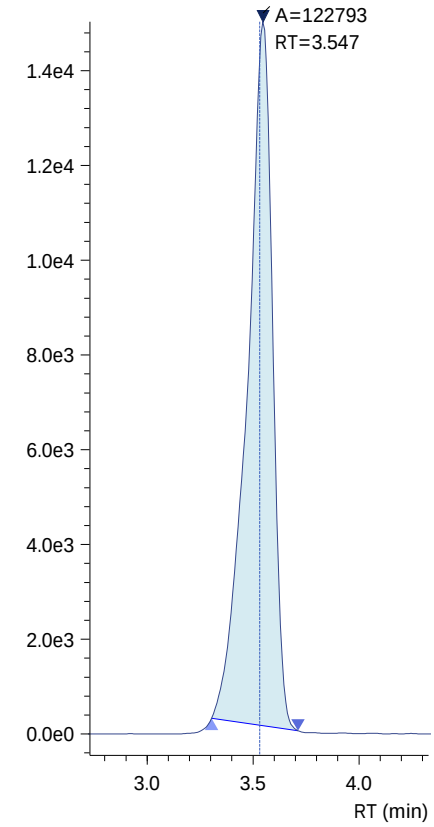
Perchlorate

Conc 9.6904
R#1 33.34 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:06:37 PM

IB

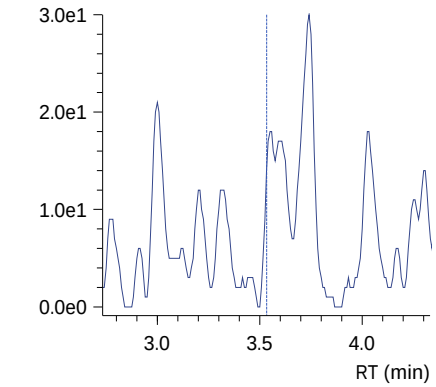
Sample ID: IB
Date Acquired: 4/19/2024 10:57:43 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	143773	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.546	143773	143773	1.0000	ng/mL	----	----	

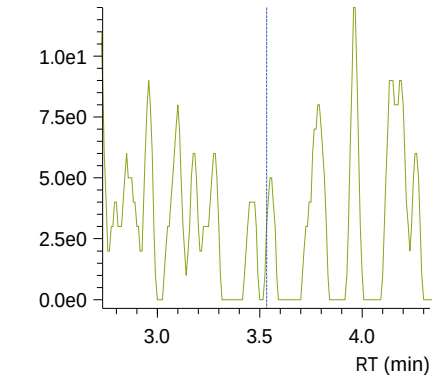
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.00e1



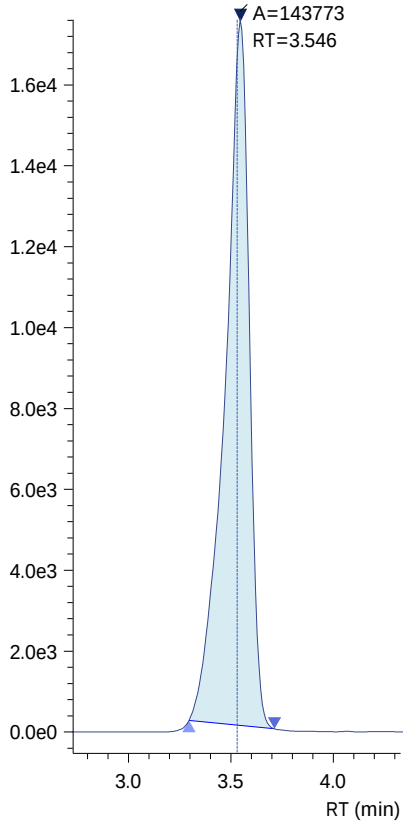
R1 101.00>85.00 (-) 1.20e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.76e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

EQ2400188-01MB

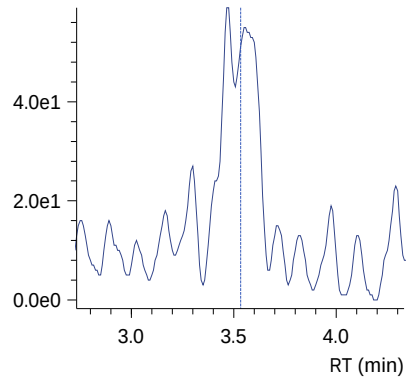
Sample ID: EQ2400188-01
Date Acquired: 4/19/2024 11:44:59 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-009.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	134100	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.541	134100	134100	1.0000	ng/mL	----	----	

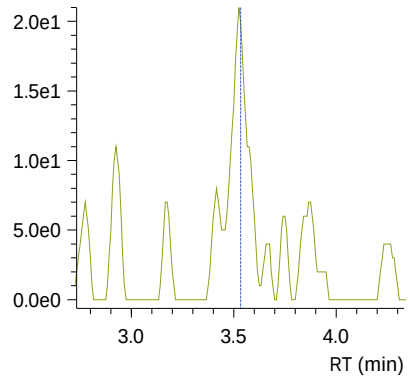
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 5.90e1



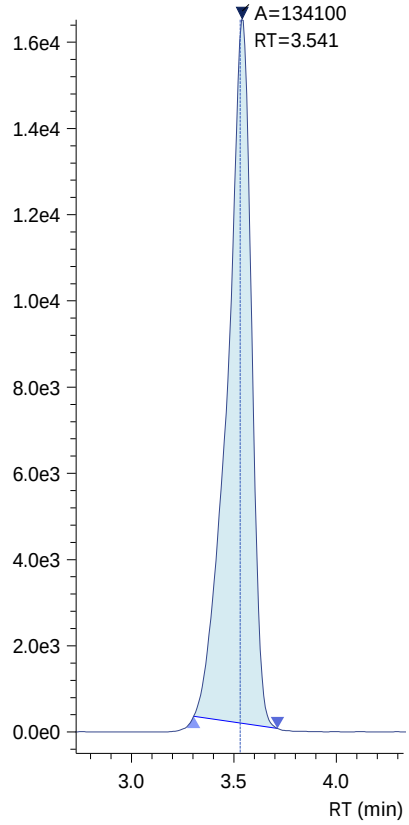
R1 101.00>85.00 (-) 2.10e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.65e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

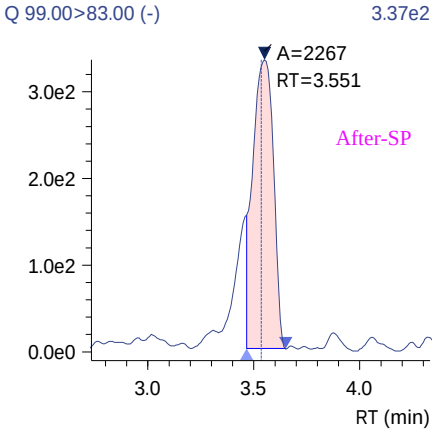
EQ2400188-02LCS

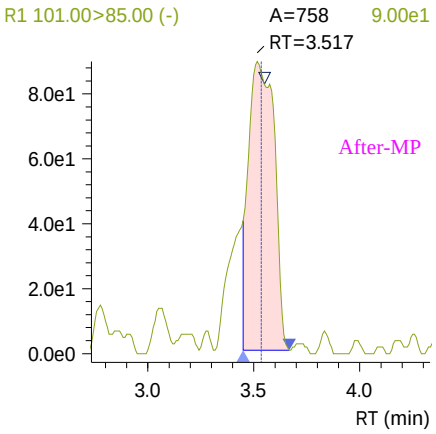
Sample ID: EQ2400188-02
Date Acquired: 4/19/2024 11:50:31 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-010.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.551	2267	131541	0.1112	ng/mL	101.00 >85.00	33.44	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.540	131541	131541	1.0000	ng/mL	----	----	

Perchlorate

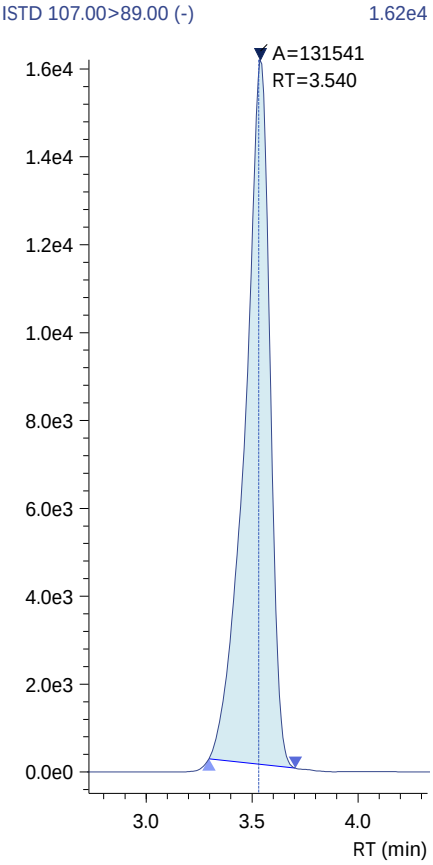
Conc 0.1112
R#1 33.44 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:11:15 PM

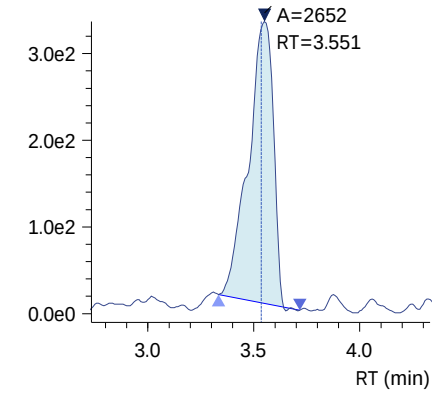
EQ2400188-02LCS

Sample ID: EQ2400188-02
Date Acquired: 4/19/2024 11:50:31 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-010.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 2

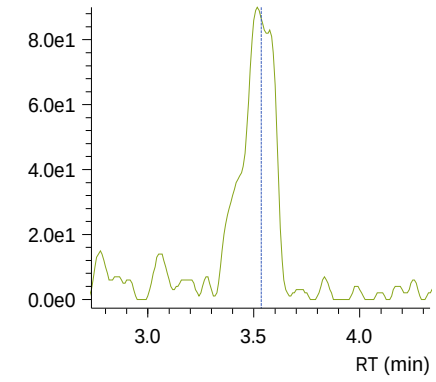
Perchlorate

Conc 0.1301
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.37e2



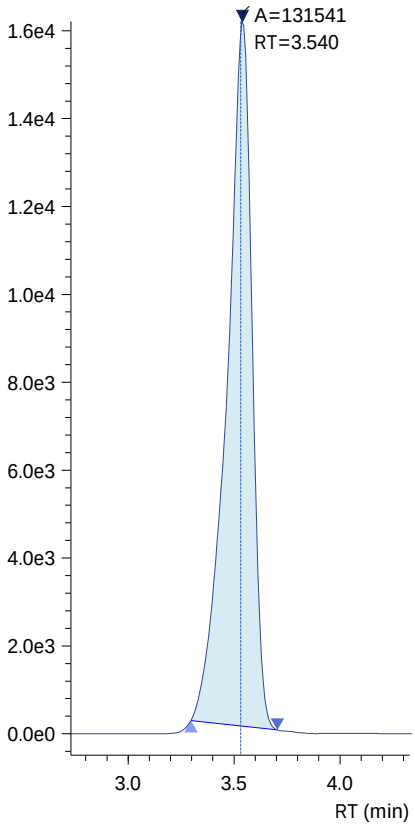
R1 101.00>85.00 (-) 9.00e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

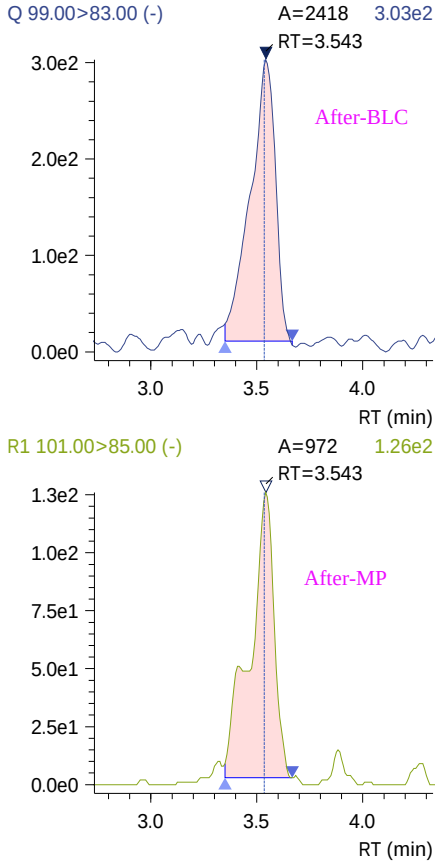
EQ2400188-03DLCS

Sample ID: EQ2400188-03
Date Acquired: 4/19/2024 11:56:03 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-011.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.543	2418	132507	0.1178	ng/mL	101.00 >85.00	40.21	26.31 -43.47
Sodium Perchlorate-18O4 _IS	Auto	3.539	132507	132507	1.0000	ng/mL	----	----	

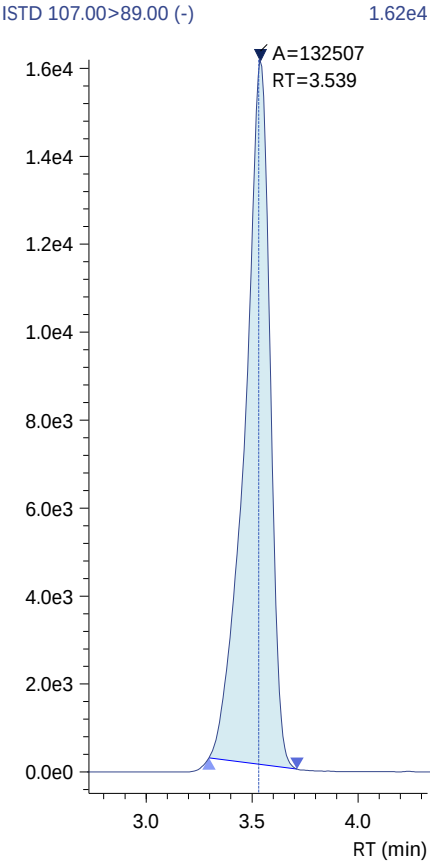
Perchlorate

Conc 0.1178
R#1 40.21 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:11:15 PM

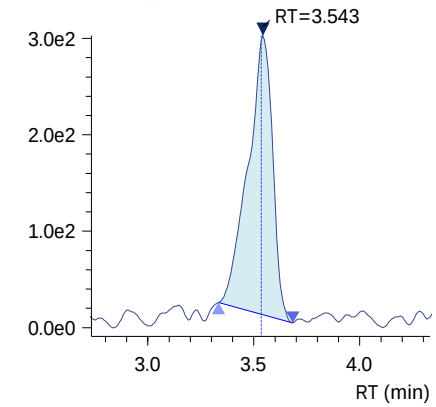
EQ2400188-03DLCS

Sample ID: EQ2400188-03
Date Acquired: 4/19/2024 11:56:03 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-011.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 2

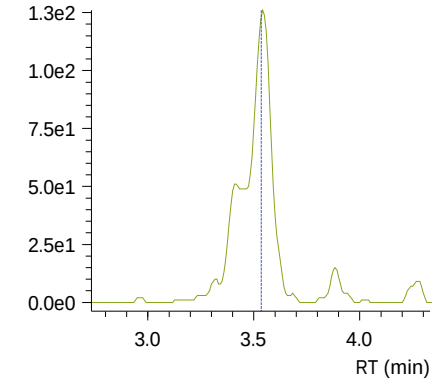
Perchlorate

Conc 0.1137
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2334 3.03e2



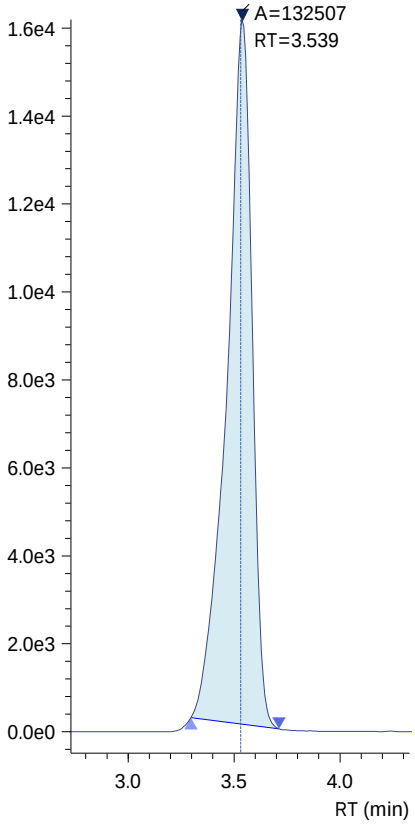
R1 101.00>85.00 (-) 1.26e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.62e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

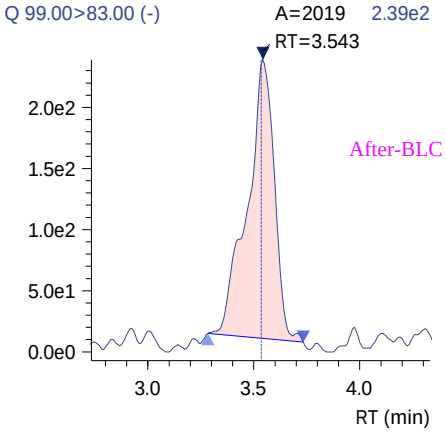
EQ2400188-04ICS

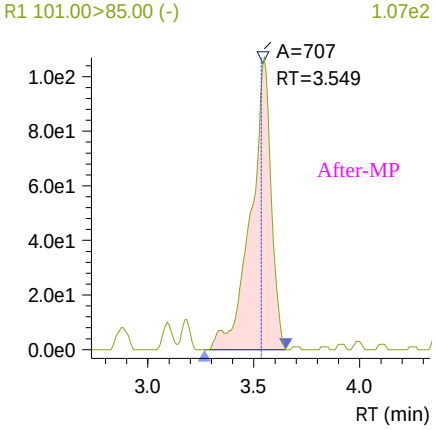
Sample ID: EQ2400188-04
Date Acquired: 4/19/2024 12:01:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-012.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.543	2019	133826	0.0974	ng/mL	101.00 >85.00	35.02	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.541	133826	133826	1.0000	ng/mL	----	----	

Perchlorate

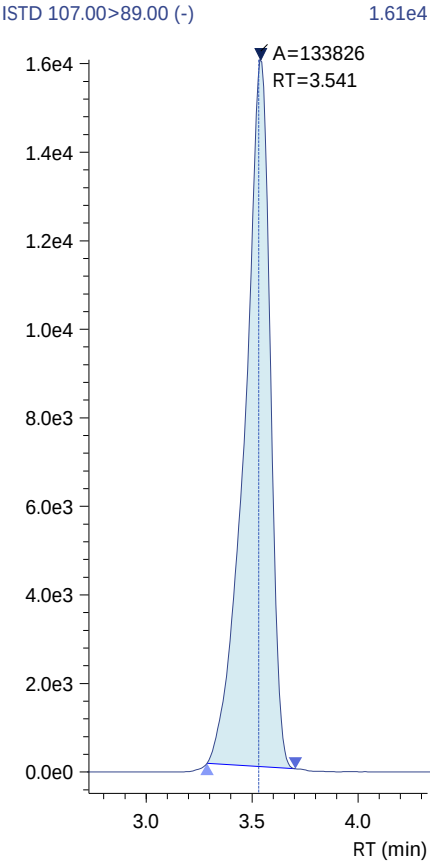
Conc 0.0974
R#1 35.02 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:11:15 PM

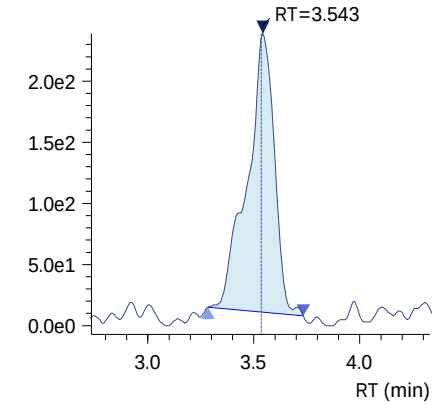
EQ2400188-04ICS

Sample ID: EQ2400188-04
Date Acquired: 4/19/2024 12:01:37 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-012.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 2

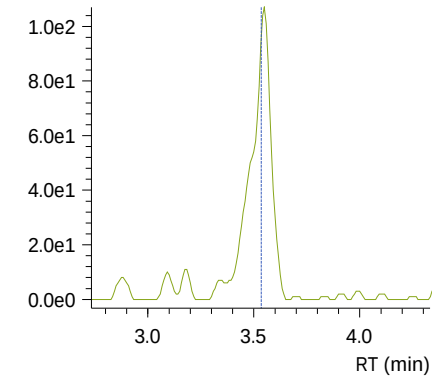
Perchlorate

Conc 0.0974
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=2019 2.39e2



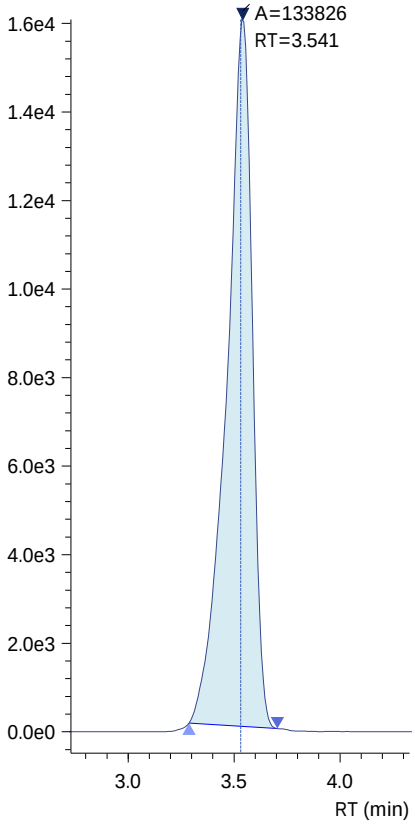
R1 101.00>85.00 (-) 1.07e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.61e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

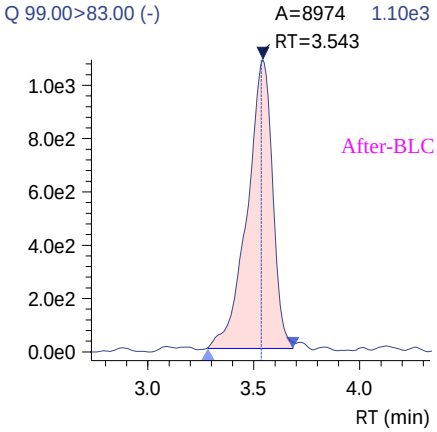
E2400391-001

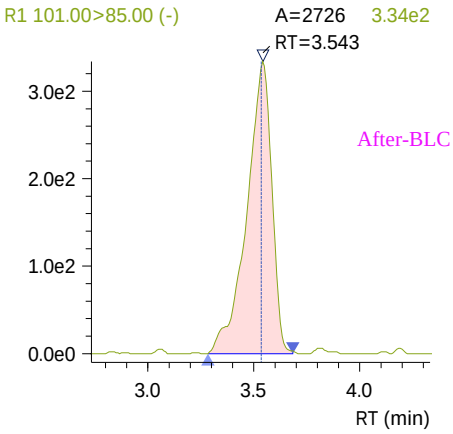
Sample ID: E2400391-001
Date Acquired: 4/19/2024 12:07:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.543	8974	137582	0.4210	ng/mL	101.00 >85.00	30.38	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.541	1375 82	137582	1.0000	ng/mL	----	----	

Perchlorate

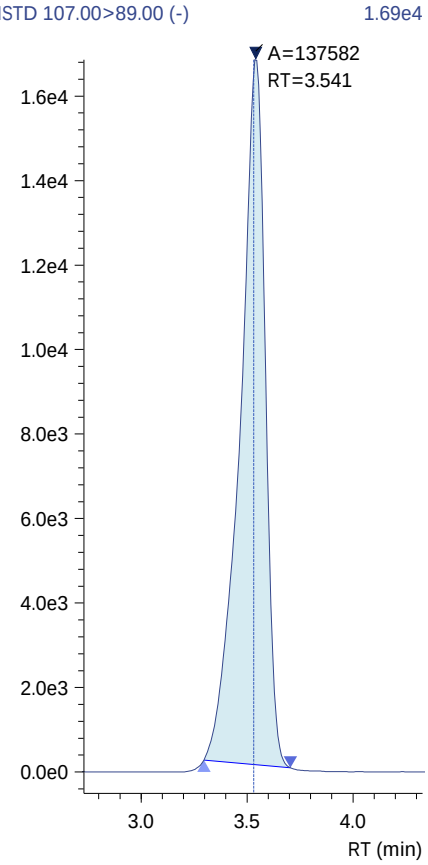
Conc 0.4210
R#1 30.38 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:11:15 PM

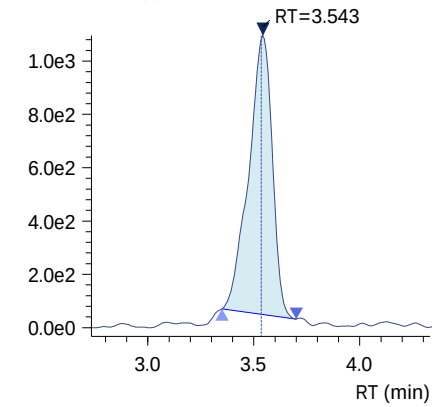
E2400391-001

Sample ID: E2400391-001
Date Acquired: 4/19/2024 12:07:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-013.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 2

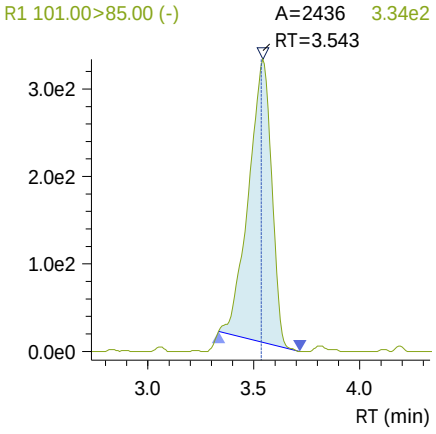
Perchlorate

Conc 0.3775
R#1 30.27 (34.10)

Q 99.00>83.00 (-) A=8048 1.10e3



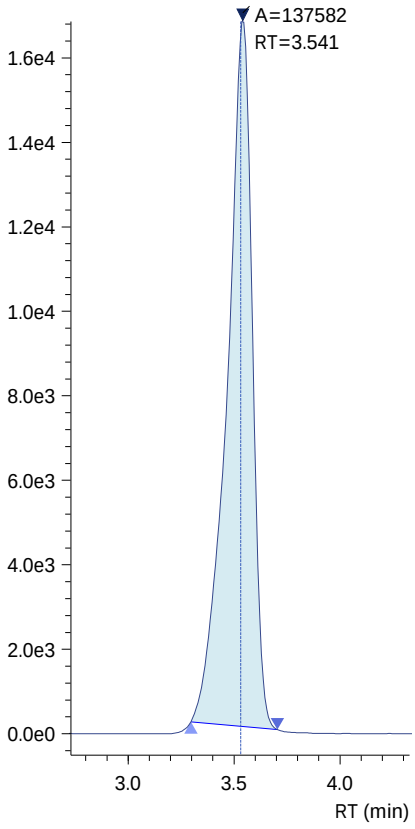
R1 101.00>85.00 (-) A=2436 3.34e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.69e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

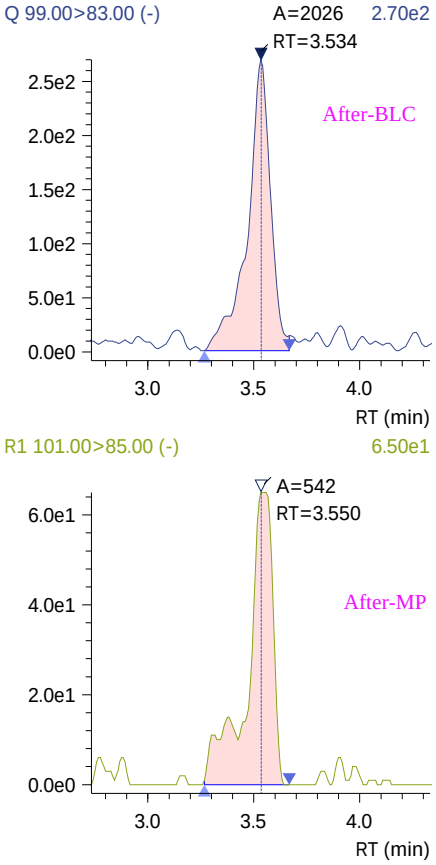
E2400391-002

Sample ID: E2400391-002
Date Acquired: 4/19/2024 12:12:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-014.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.534	2026	136284	0.0959	ng/mL	101.00 >85.00	26.75	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.542	136284	136284	1.0000	ng/mL	----	----	

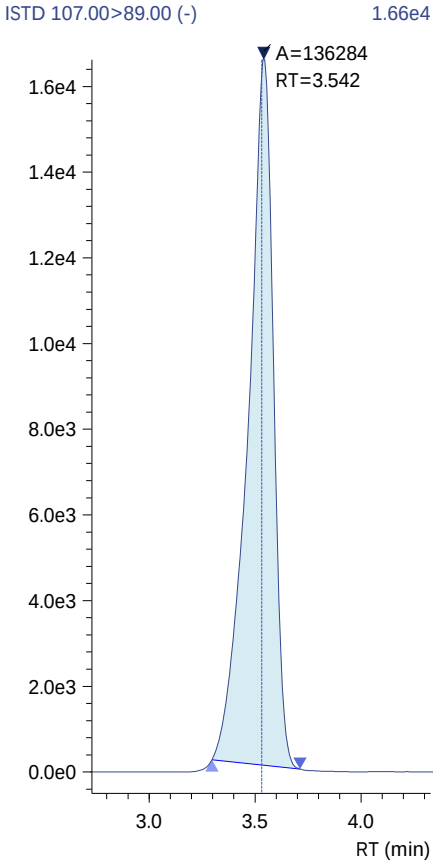
Perchlorate

Conc 0.0959
R#1 26.75 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/19/2024 2:11:15 PM

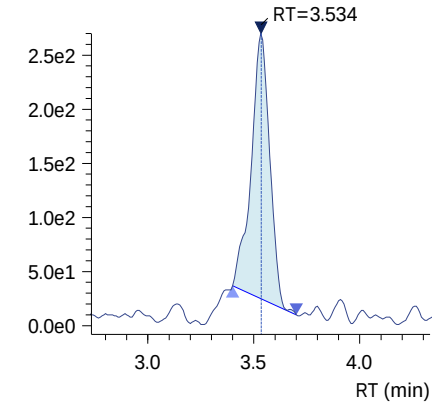
E2400391-002

Sample ID: E2400391-002
Date Acquired: 4/19/2024 12:12:46 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-014.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 2

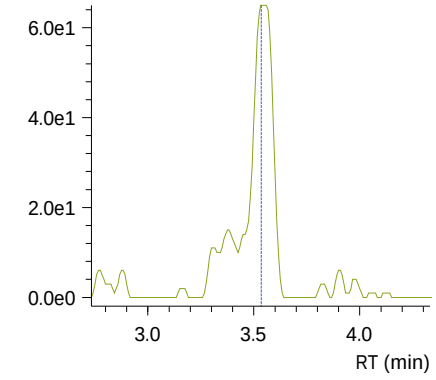
Perchlorate

Conc 0.0705
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1488 2.70e2



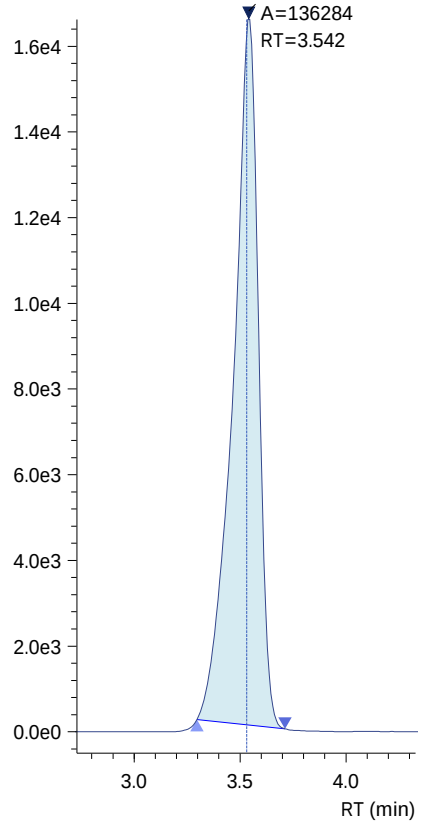
R1 101.00>85.00 (-) 6.50e1



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.66e4



Insight Report

Printed at 4/19/2024 2:06:37 PM

CCV

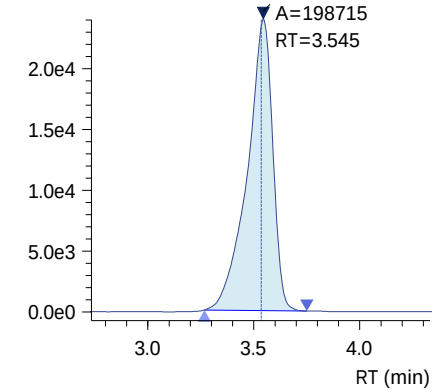
Sample ID: CCV
Date Acquired: 4/19/2024 12:48:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.545	1987 15	126867	10.1 095	ng/mL	101.00 >85.00	33.15	26.31 -43.47
Sodium Perchlorate-18O4_IS	M	3.541	1268 67	126867	1.0000	ng/mL	----	----	

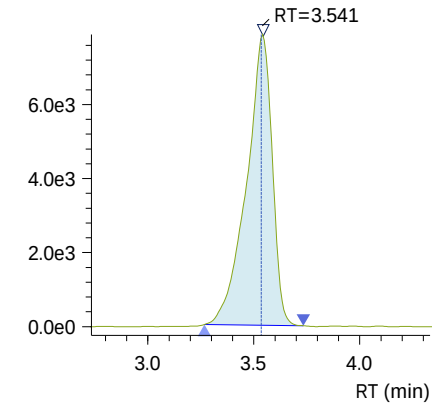
Perchlorate

Conc 10.1095
R#1 33.15 (34.10)

Q 99.00>83.00 (-) 2.40e4



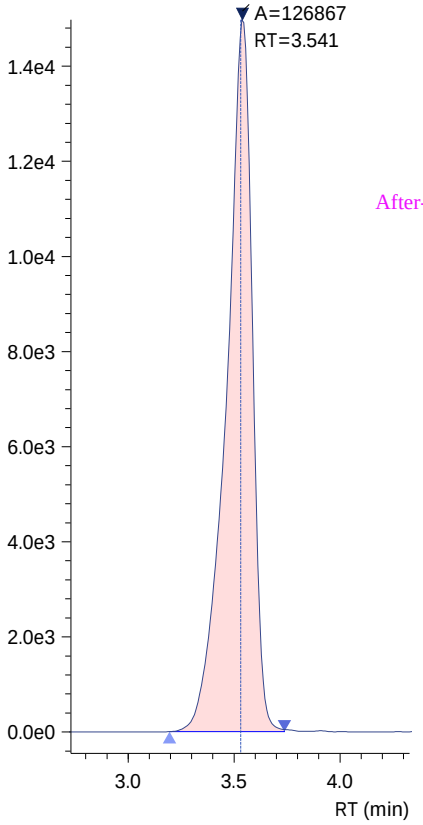
R1 101.00>85.00 (-) A=65871 7.89e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



After-BLC

Insight Report

Printed at 4/19/2024 2:11:15 PM

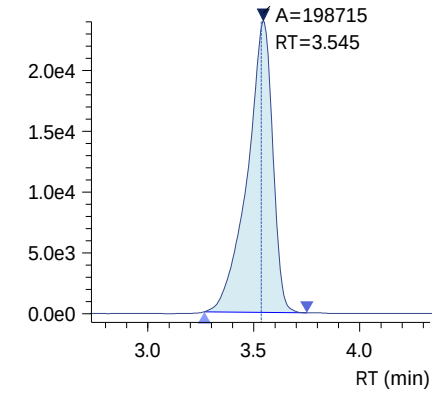
CCV

Sample ID: CCV
Date Acquired: 4/19/2024 12:48:03 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240419\20240419-017.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

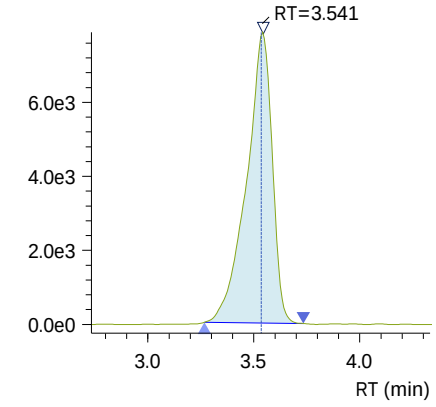
Perchlorate

Conc 10.3881
R#1 33.15 (34.10)

Q 99.00>83.00 (-) 2.40e4



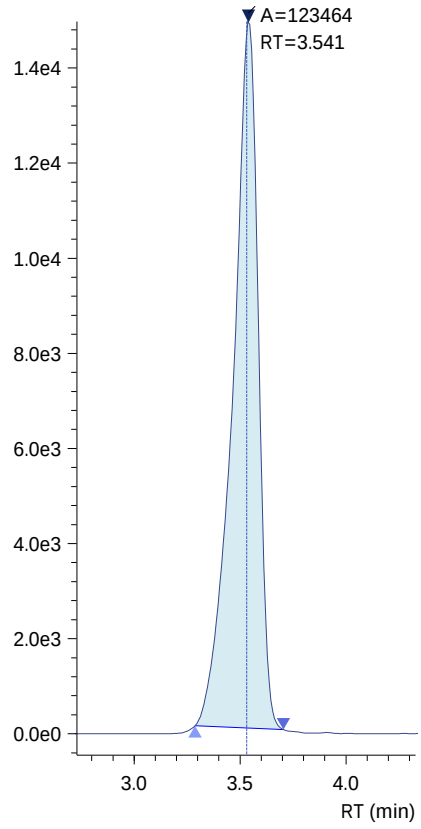
R1 101.00>85.00 (-) A=65871 7.89e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 1.50e4



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WorkOrder: HS24041309

GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

11-Jun-2024

WorkOrder: HS24041309

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ALS WO# HS24041309

HS24041309 GROUNDWATER TREATMENT PLANT BIWEEKLY SAMPLES Final

ALS WO# HS24041309

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April 26, 2024

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

Work Order: **HS24041309**

Laboratory Results for: **GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES**

Dear Marcia Olive,

ALS Environmental received 2 sample(s) on Apr 18, 2024 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
Luis.Aguilar

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Work Order: HS24041309

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24041309-01	LH18/24-SP650_041724	Water		17-Apr-2024 13:00	18-Apr-2024 10:00	☐
HS24041309-02	Trip Blank	Water		17-Apr-2024 00:00	18-Apr-2024 10:00	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Work Order: HS24041309

GCMS Volatiles by Method SW8260

Batch ID: R465037

Sample ID: LCS-240424

- Insufficient sample received to perform MS/MSD. An LCS/LCSD was performed as batch quality control.
- Surrogates failed outside control limits high. Associated samples are ND.

Sample ID: LCSD-240424

- Surrogates failed outside control limits high. Sample is ND.

Sample ID: LH18/24-SP650_041724 (HS24041309-01)

- Surrogates failed outside control limits high. Sample is ND.

Sample ID: Trip Blank (HS24041309-02)

- Surrogates failed outside control limits high. Sample is ND.

WetChemistry by Method SW9056

Batch ID: R464885

Sample ID: HS24041577-10MS

- MS and MSD are for an unrelated sample (Sulfate)

Sample ID: HS24041577-12MS

- MS and MSD are for an unrelated sample (Sulfate)

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES WorkOrder:HS24041309

Sample ID: LH18/24-SP650_041724 Lab ID:HS24041309-01

Collection Date: 17-Apr-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 17:42
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	24-Apr-2024 17:42
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	24-Apr-2024 17:42
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 17:42
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	24-Apr-2024 17:42
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	24-Apr-2024 17:42
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	24-Apr-2024 17:42
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES WorkOrder:HS24041309

Sample ID: LH18/24-SP650_041724 Lab ID:HS24041309-01

Collection Date: 17-Apr-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	24-Apr-2024 17:42
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	24-Apr-2024 17:42
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 17:42
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 17:42
Surr: 1,2-Dichloroethane-d4	*133*	*S*		**0**	*81-118*	*%REC*	*1*	*24-Apr-2024 17:42*
Surr: 4-Bromofluorobenzene	*109*			**0**	*85-114*	*%REC*	*1*	*24-Apr-2024 17:42*
Surr: Dibromofluoromethane	*118*			**0**	*80-119*	*%REC*	*1*	*24-Apr-2024 17:42*
Surr: Toluene-d8	*112*			**0**	*89-112*	*%REC*	*1*	*24-Apr-2024 17:42*
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**996**		**4.00**	**5.00**	**10.0**	**mg/L**	20	23-Apr-2024 22:55
Sulfate	**30.7**		**0.200**	**0.250**	**0.500**	**mg/L**	1	23-Apr-2024 22:49

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES WorkOrder:HS24041309

Sample ID: Trip Blank Lab ID:HS24041309-02

Collection Date: 17-Apr-2024 00:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,1,2,2-Tetrachloroethane	0.50	U	0.50	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,1,2-Trichloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,1-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,1-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,1-Dichloropropene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,2,3-Trichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,2,3-Trichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,2,4-Trichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,2,4-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,2-Dibromo-3-chloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,2-Dibromoethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,2-Dichlorobenzene	0.50	U	0.50	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,2-Dichloroethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,2-Dichloropropane	0.50	U	0.50	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,3,5-Trimethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,3-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,3-Dichloropropane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
1,4-Dichlorobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 16:18
2,2-Dichloropropane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	24-Apr-2024 16:18
2-Chlorotoluene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	24-Apr-2024 16:18
4-Chlorotoluene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 16:18
4-Isopropyltoluene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	24-Apr-2024 16:18
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	24-Apr-2024 16:18
Benzene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Bromobenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Bromochloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Bromodichloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Bromoform	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Bromomethane	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	24-Apr-2024 16:18
Carbon tetrachloride	0.50	U	0.50	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Chlorobenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Chloroethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Chloroform	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18

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

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ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES WorkOrder:HS24041309

Sample ID: Trip Blank Lab ID:HS24041309-02

Collection Date: 17-Apr-2024 00:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
cis-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
cis-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Dibromochloromethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Dibromomethane	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Dichlorodifluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Ethylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Hexachlorobutadiene	0.50	U	1.0	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Isopropylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	24-Apr-2024 16:18
Methylene chloride	0.50	U	0.40	0.50	2.0	ug/L	1	24-Apr-2024 16:18
n-Butylbenzene	0.50	U	0.40	0.50	1.0	ug/L	1	24-Apr-2024 16:18
n-Propylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Naphthalene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
o-Xylene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
sec-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Styrene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
tert-Butylbenzene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Tetrachloroethene	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Toluene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
trans-1,2-Dichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
trans-1,3-Dichloropropene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Trichloroethene	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Trichlorofluoromethane	0.50	U	0.30	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Vinyl chloride	0.50	U	0.20	0.50	1.0	ug/L	1	24-Apr-2024 16:18
Surr: 1,2-Dichloroethane-d4	*130*	*S*		**0**	*81-118*	*%REC*	*1*	*24-Apr-2024 16:18*
Surr: 4-Bromofluorobenzene	*132*	*S*		**0**	*85-114*	*%REC*	*1*	*24-Apr-2024 16:18*
Surr: Dibromofluoromethane	*120*	*S*		**0**	*80-119*	*%REC*	*1*	*24-Apr-2024 16:18*
Surr: Toluene-d8	*151*	*S*		**0**	*89-112*	*%REC*	*1*	*24-Apr-2024 16:18*

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

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Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24041309

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R464885 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS24041309-01	LH18/24-SP650_041724	17 Apr 2024 13:00			23 Apr 2024 22:55	20
HS24041309-01	LH18/24-SP650_041724	17 Apr 2024 13:00			23 Apr 2024 22:49	1
Batch ID: R465037 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24041309-01	LH18/24-SP650_041724	17 Apr 2024 13:00			24 Apr 2024 17:42	1
HS24041309-02	Trip Blank	17 Apr 2024 00:00			24 Apr 2024 16:18	1

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ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24041309

QC BATCH REPORT

Batch ID: R465037 (0) **Instrument:** VOA10 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240424** Units: **ug/L** Analysis Date: **24-Apr-2024 15:15**
Client ID: Run ID: **VOA10_465037** SeqNo: **7971788** 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	0.50	1.0								U
1,1,1-Trichloroethane	0.50	1.0								U
1,1,2,2-Tetrachloroethane	0.50	1.0								U
1,1,2-Trichloroethane	0.50	1.0								U
1,1-Dichloroethane	0.50	1.0								U
1,1-Dichloroethene	0.50	1.0								U
1,1-Dichloropropene	0.50	1.0								U
1,2,3-Trichlorobenzene	0.50	1.0								U
1,2,3-Trichloropropane	0.50	1.0								U
1,2,4-Trichlorobenzene	0.50	1.0								U
1,2,4-Trimethylbenzene	0.50	1.0								U
1,2-Dibromo-3-chloropropane	0.50	1.0								U
1,2-Dibromoethane	0.50	1.0								U
1,2-Dichlorobenzene	0.50	1.0								U
1,2-Dichloroethane	0.50	1.0								U
1,2-Dichloropropane	0.50	1.0								U
1,3,5-Trimethylbenzene	0.50	1.0								U
1,3-Dichlorobenzene	0.50	1.0								U
1,3-Dichloropropane	0.50	1.0								U
1,4-Dichlorobenzene	0.50	1.0								U
2,2-Dichloropropane	0.50	1.0								U
2-Butanone	1.0	2.0								U
2-Chlorotoluene	0.50	1.0								U
2-Hexanone	1.0	2.0								U
4-Chlorotoluene	0.50	1.0								U
4-Isopropyltoluene	0.50	1.0								U
4-Methyl-2-pentanone	1.0	2.0								U
Acetone	1.0	2.0								U
Benzene	0.50	1.0								U
Bromobenzene	0.50	1.0								U
Bromochloromethane	0.50	1.0								U
Bromodichloromethane	0.50	1.0								U
Bromoform	0.50	1.0								U
Bromomethane	0.50	1.0								U

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ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24041309

QC BATCH REPORT

Batch ID: R465037 (0) **Instrument:** VOA10 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240424** Units: **ug/L** Analysis Date: **24-Apr-2024 15:15**
Client ID: Run ID: **VOA10_465037** SeqNo: **7971788** 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	0.50	1.0								U
Chlorobenzene	0.50	1.0								U
Chloroethane	0.50	1.0								U
Chloroform	0.50	1.0								U
Chloromethane	0.50	1.0								U
cis-1,2-Dichloroethene	0.50	1.0								U
cis-1,3-Dichloropropene	0.50	1.0								U
Dibromochloromethane	0.50	1.0								U
Dibromomethane	0.50	1.0								U
Dichlorodifluoromethane	0.50	1.0								U
Ethylbenzene	0.50	1.0								U
Hexachlorobutadiene	0.50	1.0								U
Isopropylbenzene	0.50	1.0								U
m,p-Xylene	1.0	2.0								U
Methylene chloride	0.50	2.0								U
Naphthalene	0.50	1.0								U
n-Butylbenzene	0.50	1.0								U
n-Propylbenzene	0.50	1.0								U
o-Xylene	0.50	1.0								U
sec-Butylbenzene	0.50	1.0								U
Styrene	0.50	1.0								U
tert-Butylbenzene	0.50	1.0								U
Tetrachloroethene	0.50	1.0								U
Toluene	0.50	1.0								U
trans-1,2-Dichloroethene	0.50	1.0								U
trans-1,3-Dichloropropene	0.50	1.0								U
Trichloroethene	0.50	1.0								U
Trichlorofluoromethane	0.50	1.0								U
Vinyl chloride	0.50	1.0								U
Surr: 1,2-Dichloroethane-d4	*64.48*	*35*	*50*	*0*	*129*	*81 - 118*				S
Surr: 4-Bromofluorobenzene	*57.41*	*35*	*50*	*0*	*115*	*85 - 114*				S
Surr: Dibromofluoromethane	*59.53*	*35*	*50*	*0*	*119*	*80 - 119*				S
Surr: Toluene-d8	*76.66*	*35*	*50*	*0*	*153*	*89 - 112*				S

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24041309

QC BATCH REPORT

Batch ID: R465037 (0) **Instrument: VOA10** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **LCS-240424** Units: **ug/L** Analysis Date: **24-Apr-2024 22:35**
Client ID: Run ID: **VOA10_465037** SeqNo: **7971808** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	19.72	1.0	20	0	98.6	78 - 124				
1,1,1-Trichloroethane	21.66	1.0	20	0	108	74 - 131				
1,1,2,2-Tetrachloroethane	21.29	1.0	20	0	106	71 - 121				
1,1,2-Trichloroethane	21.18	1.0	20	0	106	80 - 119				
1,1-Dichloroethane	24.65	1.0	20	0	123	77 - 125				
1,1-Dichloroethene	21.43	1.0	20	0	107	71 - 131				
1,1-Dichloropropene	20	1.0	20	0	100.0	78 - 125				
1,2,3-Trichlorobenzene	17.89	1.0	20	0	89.5	69 - 129				
1,2,3-Trichloropropane	21	1.0	20	0	105	73 - 122				
1,2,4-Trichlorobenzene	18.1	1.0	20	0	90.5	69 - 130				
1,2,4-Trimethylbenzene	20.55	1.0	20	0	103	76 - 124				
1,2-Dibromo-3-chloropropane	18.83	1.0	20	0	94.1	62 - 128				
1,2-Dibromoethane	19.26	1.0	20	0	96.3	77 - 121				
1,2-Dichlorobenzene	18.67	1.0	20	0	93.3	80 - 119				
1,2-Dichloroethane	22.68	1.0	20	0	113	73 - 128				
1,2-Dichloropropane	22.28	1.0	20	0	111	78 - 122				
1,3,5-Trimethylbenzene	20.69	1.0	20	0	103	75 - 124				
1,3-Dichlorobenzene	18.94	1.0	20	0	94.7	80 - 119				
1,3-Dichloropropane	20.97	1.0	20	0	105	80 - 119				
1,4-Dichlorobenzene	18.53	1.0	20	0	92.7	79 - 118				
2,2-Dichloropropane	20.55	1.0	20	0	103	60 - 139				
2-Butanone	45.87	2.0	40	0	115	56 - 143				
2-Chlorotoluene	20.97	1.0	20	0	105	79 - 122				
2-Hexanone	42.35	2.0	40	0	106	57 - 139				
4-Chlorotoluene	20.64	1.0	20	0	103	78 - 122				
4-Isopropyltoluene	20.86	1.0	20	0	104	77 - 127				
4-Methyl-2-pentanone	47.06	2.0	40	0	118	67 - 130				
Acetone	50.58	2.0	40	0	126	39 - 160				
Benzene	21.31	1.0	20	0	107	79 - 120				
Bromobenzene	18.96	1.0	20	0	94.8	80 - 120				
Bromochloromethane	21.21	1.0	20	0	106	78 - 123				
Bromodichloromethane	21.72	1.0	20	0	109	79 - 125				
Bromoform	17.22	1.0	20	0	86.1	66 - 130				
Bromomethane	12.04	1.0	20	0	60.2	53 - 141				

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ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24041309

QC BATCH REPORT

Batch ID: R465037 (0) **Instrument: VOA10** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **LCS-240424** Units: **ug/L** Analysis Date: **24-Apr-2024 22:35**
Client ID: Run ID: **VOA10_465037** SeqNo: **7971808** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	45.11	2.0	40	0	113	64 - 133				
Carbon tetrachloride	19.44	1.0	20	0	97.2	72 - 136				
Chlorobenzene	19.24	1.0	20	0	96.2	82 - 118				
Chloroethane	25.86	1.0	20	0	129	60 - 138				
Chloroform	23.42	1.0	20	0	117	79 - 124				
Chloromethane	20.74	1.0	20	0	104	50 - 139				
cis-1,2-Dichloroethene	21.99	1.0	20	0	110	78 - 123				
cis-1,3-Dichloropropene	20.45	1.0	20	0	102	75 - 124				
Dibromochloromethane	19.66	1.0	20	0	98.3	74 - 126				
Dibromomethane	20.84	1.0	20	0	104	79 - 123				
Dichlorodifluoromethane	20.38	1.0	20	0	102	32 - 152				
Ethylbenzene	19.57	1.0	20	0	97.8	79 - 121				
Hexachlorobutadiene	16.73	1.0	20	0	83.6	66 - 134				
Isopropylbenzene	20.25	1.0	20	0	101	72 - 131				
m,p-Xylene	39.14	2.0	40	0	97.8	80 - 121				
Methylene chloride	21.95	2.0	20	0	110	74 - 124				
Naphthalene	16.34	1.0	20	0	81.7	61 - 128				
n-Butylbenzene	21.47	1.0	20	0	107	75 - 128				
n-Propylbenzene	21.73	1.0	20	0	109	76 - 126				
o-Xylene	19.3	1.0	20	0	96.5	78 - 122				
sec-Butylbenzene	21.57	1.0	20	0	108	77 - 126				
Styrene	20.26	1.0	20	0	101	78 - 123				
tert-Butylbenzene	21.18	1.0	20	0	106	78 - 124				
Tetrachloroethene	19.05	1.0	20	0	95.2	74 - 129				
Toluene	20.52	1.0	20	0	103	80 - 121				
trans-1,2-Dichloroethene	23.24	1.0	20	0	116	75 - 124				
trans-1,3-Dichloropropene	18.79	1.0	20	0	93.9	73 - 127				
Trichloroethene	18.45	1.0	20	0	92.3	79 - 123				
Trichlorofluoromethane	22.62	1.0	20	0	113	65 - 141				
Vinyl chloride	22.17	1.0	20	0	111	58 - 137				
Surr: 1,2-Dichloroethane-d4	*65.27*	*35*	*50*	*0*	*131*	*81 - 118*				S
Surr: 4-Bromofluorobenzene	*53.36*	*35*	*50*	*0*	*107*	*85 - 114*				
Surr: Dibromofluoromethane	*60.59*	*35*	*50*	*0*	*121*	*80 - 119*				S
Surr: Toluene-d8	*56.67*	*35*	*50*	*0*	*113*	*89 - 112*				S

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24041309

QC BATCH REPORT

Batch ID: R465037 (0) **Instrument: VOA10** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCSD Sample ID: **LCSD-240424** Units: **ug/L** Analysis Date: **24-Apr-2024 22:56**
Client ID: Run ID: **VOA10_465037** SeqNo: **7971809** 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	19.37	1.0	20	0	96.8	78 - 124	19.72	1.82	20	
1,1,1-Trichloroethane	20.98	1.0	20	0	105	74 - 131	21.66	3.21	20	
1,1,2,2-Tetrachloroethane	21.1	1.0	20	0	105	71 - 121	21.29	0.941	20	
1,1,2-Trichloroethane	21.1	1.0	20	0	105	80 - 119	21.18	0.383	20	
1,1-Dichloroethane	23.17	1.0	20	0	116	77 - 125	24.65	6.17	20	
1,1-Dichloroethene	19.89	1.0	20	0	99.5	71 - 131	21.43	7.44	20	
1,1-Dichloropropene	19.01	1.0	20	0	95.1	78 - 125	20	5.05	20	
1,2,3-Trichlorobenzene	17.45	1.0	20	0	87.2	69 - 129	17.89	2.53	20	
1,2,3-Trichloropropane	20.44	1.0	20	0	102	73 - 122	21	2.74	20	
1,2,4-Trichlorobenzene	17.7	1.0	20	0	88.5	69 - 130	18.1	2.24	20	
1,2,4-Trimethylbenzene	19.8	1.0	20	0	99.0	76 - 124	20.55	3.71	20	
1,2-Dibromo-3-chloropropane	18	1.0	20	0	90.0	62 - 128	18.83	4.49	20	
1,2-Dibromoethane	18.11	1.0	20	0	90.6	77 - 121	19.26	6.12	20	
1,2-Dichlorobenzene	17.88	1.0	20	0	89.4	80 - 119	18.67	4.31	20	
1,2-Dichloroethane	22.76	1.0	20	0	114	73 - 128	22.68	0.346	20	
1,2-Dichloropropane	22.34	1.0	20	0	112	78 - 122	22.28	0.242	20	
1,3,5-Trimethylbenzene	19.42	1.0	20	0	97.1	75 - 124	20.69	6.3	20	
1,3-Dichlorobenzene	18.26	1.0	20	0	91.3	80 - 119	18.94	3.66	20	
1,3-Dichloropropane	20.68	1.0	20	0	103	80 - 119	20.97	1.42	20	
1,4-Dichlorobenzene	18	1.0	20	0	90.0	79 - 118	18.53	2.92	20	
2,2-Dichloropropane	19.66	1.0	20	0	98.3	60 - 139	20.55	4.41	20	
2-Butanone	48.76	2.0	40	0	122	56 - 143	45.87	6.12	20	
2-Chlorotoluene	20.15	1.0	20	0	101	79 - 122	20.97	3.95	20	
2-Hexanone	43.63	2.0	40	0	109	57 - 139	42.35	2.97	20	
4-Chlorotoluene	19.84	1.0	20	0	99.2	78 - 122	20.64	3.95	20	
4-Isopropyltoluene	19.47	1.0	20	0	97.4	77 - 127	20.86	6.87	20	
4-Methyl-2-pentanone	47.86	2.0	40	0	120	67 - 130	47.06	1.7	20	
Acetone	50.34	2.0	40	0	126	39 - 160	50.58	0.475	20	
Benzene	20.41	1.0	20	0	102	79 - 120	21.31	4.3	20	
Bromobenzene	18.13	1.0	20	0	90.7	80 - 120	18.96	4.46	20	
Bromochloromethane	20.02	1.0	20	0	100	78 - 123	21.21	5.78	20	
Bromodichloromethane	21.87	1.0	20	0	109	79 - 125	21.72	0.683	20	
Bromoform	16.78	1.0	20	0	83.9	66 - 130	17.22	2.61	20	
Bromomethane	11.65	1.0	20	0	58.2	53 - 141	12.04	3.31	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24041309

QC BATCH REPORT

Batch ID: R465037 (0) **Instrument:** VOA10 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCSD Sample ID: **LCSD-240424** Units: **ug/L** Analysis Date: **24-Apr-2024 22:56**
Client ID: Run ID: **VOA10_465037** SeqNo: **7971809** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Carbon disulfide	43.16	2.0	40	0	108	64 - 133	45.11	4.43	20	
Carbon tetrachloride	19.54	1.0	20	0	97.7	72 - 136	19.44	0.539	20	
Chlorobenzene	18.77	1.0	20	0	93.8	82 - 118	19.24	2.51	20	
Chloroethane	24.57	1.0	20	0	123	60 - 138	25.86	5.11	20	
Chloroform	22.42	1.0	20	0	112	79 - 124	23.42	4.37	20	
Chloromethane	20.67	1.0	20	0	103	50 - 139	20.74	0.322	20	
cis-1,2-Dichloroethene	21.59	1.0	20	0	108	78 - 123	21.99	1.84	20	
cis-1,3-Dichloropropene	20.12	1.0	20	0	101	75 - 124	20.45	1.63	20	
Dibromochloromethane	19.46	1.0	20	0	97.3	74 - 126	19.66	1.03	20	
Dibromomethane	20.46	1.0	20	0	102	79 - 123	20.84	1.85	20	
Dichlorodifluoromethane	19.13	1.0	20	0	95.7	32 - 152	20.38	6.32	20	
Ethylbenzene	19.23	1.0	20	0	96.2	79 - 121	19.57	1.73	20	
Hexachlorobutadiene	16.38	1.0	20	0	81.9	66 - 134	16.73	2.09	20	
Isopropylbenzene	19.6	1.0	20	0	98.0	72 - 131	20.25	3.28	20	
m,p-Xylene	37.58	2.0	40	0	94.0	80 - 121	39.14	4.05	20	
Methylene chloride	21.47	2.0	20	0	107	74 - 124	21.95	2.23	20	
Naphthalene	16.39	1.0	20	0	81.9	61 - 128	16.34	0.33	20	
n-Butylbenzene	20.36	1.0	20	0	102	75 - 128	21.47	5.31	20	
n-Propylbenzene	20.21	1.0	20	0	101	76 - 126	21.73	7.25	20	
o-Xylene	18.68	1.0	20	0	93.4	78 - 122	19.3	3.26	20	
sec-Butylbenzene	20.6	1.0	20	0	103	77 - 126	21.57	4.64	20	
Styrene	19.71	1.0	20	0	98.6	78 - 123	20.26	2.76	20	
tert-Butylbenzene	20.07	1.0	20	0	100	78 - 124	21.18	5.35	20	
Tetrachloroethene	18.07	1.0	20	0	90.3	74 - 129	19.05	5.27	20	
Toluene	19.81	1.0	20	0	99.0	80 - 121	20.52	3.54	20	
trans-1,2-Dichloroethene	21.94	1.0	20	0	110	75 - 124	23.24	5.73	20	
trans-1,3-Dichloropropene	18.51	1.0	20	0	92.5	73 - 127	18.79	1.5	20	
Trichloroethene	17.63	1.0	20	0	88.1	79 - 123	18.45	4.57	20	
Trichlorofluoromethane	20.32	1.0	20	0	102	65 - 141	22.62	10.7	20	
Vinyl chloride	21.38	1.0	20	0	107	58 - 137	22.17	3.61	20	
Surr: 1,2-Dichloroethane-d4	*68.09*	*35*	*50*	*0*	*136*	*81 - 118*	*65.27*	*4.23*	*20*	S
Surr: 4-Bromofluorobenzene	*54.07*	*35*	*50*	*0*	*108*	*85 - 114*	*53.36*	*1.33*	*20*	
Surr: Dibromofluoromethane	*60.64*	*35*	*50*	*0*	*121*	*80 - 119*	*60.59*	*0.0947*	*20*	S
Surr: Toluene-d8	*56.69*	*35*	*50*	*0*	*113*	*89 - 112*	*56.67*	*0.0387*	*20*	S

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Apr-24

Client:	Bhate Environmental Associates, Inc.
Project:	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder:	HS24041309

QC BATCH REPORT

Batch ID:	**R465037 (0)**	**Instrument:**	**VOA10**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch: HS24041309-01 HS24041309-02

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24041309

QC BATCH REPORT

Batch ID: R464885 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **23-Apr-2024 17:49**
Client ID: Run ID: **ICS-Integrion_464885** SeqNo: **7968047** 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: **23-Apr-2024 17:55**
Client ID: Run ID: **ICS-Integrion_464885** SeqNo: **7968048** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.62	0.500	20	0	103	80 - 120				
Sulfate	21.19	0.500	20	0	106	80 - 120				

MS Sample ID: **HS24041577-12MS** Units: **mg/L** Analysis Date: **23-Apr-2024 21:27**
Client ID: Run ID: **ICS-Integrion_464885** SeqNo: **7968068** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	39.31	0.500	10	30.16	91.5	80 - 120				
Sulfate	60.95	0.500	10	56.41	45.3	80 - 120				SO

MS Sample ID: **HS24041577-10MS** Units: **mg/L** Analysis Date: **23-Apr-2024 21:03**
Client ID: Run ID: **ICS-Integrion_464885** SeqNo: **7968064** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	35.42	0.500	10	26.32	91.0	80 - 120				
Sulfate	49.39	0.500	10	44.22	51.7	80 - 120				SO

MSD Sample ID: **HS24041577-12MSD** Units: **mg/L** Analysis Date: **23-Apr-2024 21:33**
Client ID: Run ID: **ICS-Integrion_464885** SeqNo: **7968069** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	39.18	0.500	10	30.16	90.3	80 - 120	39.31	0.324	20	
Sulfate	60.86	0.500	10	56.41	44.5	80 - 120	60.95	0.138	20	SO

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ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24041309

QC BATCH REPORT

Batch ID: R464885 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MSD Sample ID: **HS24041577-10MSD** Units: **mg/L** Analysis Date: **23-Apr-2024 21:09**
Client ID: Run ID: **ICS-Integrion_464885** SeqNo: **7968065** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	35.77	0.500	10	26.32	94.5	80 - 120	35.42	0.98	20	
Sulfate	50.04	0.500	10	44.22	58.2	80 - 120	49.39	1.31	20	SO

The following samples were analyzed in this batch: HS24041309-01

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ALS Houston, US Date: 26-Apr-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: **HS24041309**

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

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919; 2024	30-Apr-2024
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231 TX-C24-00109	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

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ALS Houston, US Date: 26-Apr-24

Sample Receipt Checklist

Work Order ID: HS24041309 **Date/Time Received:** **18-Apr-2024 10:00**

Client Name: Bhate Environmental **Received by:** **Armand Morgan**

Completed By:	/S/ Jacob Coronado	18-Apr-2024 21:31	**Reviewed by:**	/S/ Luis.Aguilar	21-Apr-2024 21:52
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **w** Carrier name: **FedEx**

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

Temperature(s)/Thermometer(s):	2.3uc/2.4c	ir31
Cooler(s)/Kit(s):	46037	
Date/Time sample(s) sent to storage:	04/18/2024 2133	

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:

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HS24041309

Bhate Environmental Associates, Inc.
GROUNDWATER TREATMENT PLANT BI-WEEKL

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210, Houston, Tx. 77099 ATTN: James Gulo

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES**	
Prepared By: Scott Beesinger	P.O Number BILL to PCI

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: VOC	Analyses: CHLORIDE, SULFATE	Analyses	Analyses	Analyses	Analyses	Analyses	Analyses	Analyses	Analyses	Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_041724	Water	04/17/24 / 13:00		3	3										HCL	
LH18/24-SP650_041724	Water	04/17/24 / 13:00		1		1									NONE	
Trip Blank	Water	04/17/24		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	04/17/24	13:30							AM	4/18/24	10:00

9For Lab Use Only

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

Remarks

Cooler: 46037 2.3

(Word) S:\1-ces\Forms\Chain of Custody - BiWeekly

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ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

46037

CUSTODY SEAL
Date: 4/17/24 Time: 1330
Name: Scott Boesinger
Company: Bhate

Seal Broken By: GMS
Date: 04/18/24

46037 APR 19 2024

ALS

46037

ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB202

MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 20MAY23
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3704
DIMS: 19x16x13 IN

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: LHAAP 50=BO 93172-DW

FedEx Express

FedEx.
TRK# 0221 6230 3000 0776

THU - 18 APR AA
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US
IAH

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HS24041309-MSVOA-SW8260

ALS WO# HS24041309

right solutions.
right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24041309

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Workorder: **HS24041309**

Volatiles by EPA Volatiles Organics by Method 8260C

LH18/24-SP650_041724	Collected	Received	Matrix	Basis
HS24041309-01	04/17/24 13:00	04/18/24 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	04/24/24 17:42	VOA10_465037	F042424.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	04/24/24 17:42	VOA10_465037	F042424.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	04/24/24 17:42	VOA10_465037	F042424.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	HS24041309	

Volatiles by EPA Volatiles Organics by Method 8260C

LH18/24-SP650_041724	Collected	Received	Matrix	Basis
HS24041309-01	04/17/24 13:00	04/18/24 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	04/24/24 17:42	VOA10_465037	F042424.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 17:42	VOA10_465037	F042424.D

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Workorder: **HS24041309**

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24041309-02	04/17/24 00:00	04/18/24 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	04/24/24 16:18	VOA10_465037	F042420.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	04/24/24 16:18	VOA10_465037	F042420.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	04/24/24 16:18	VOA10_465037	F042420.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D

Form 1 - Organic Analysis Data Sheet

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	**HS24041309**	

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank

	Collected	Received	Matrix	Basis
HS24041309-02	04/17/24 00:00	04/18/24 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	04/24/24 16:18	VOA10_465037	F042420.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	04/24/24 16:18	VOA10_465037	F042420.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24041309

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Workorder: HS24041309

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA10-465037

LH18/24-SP650_041724

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
HS24041309-01	VOA10	Water	04/24/24 17:42	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F042424.D	66	50	133		81-118
4-Bromofluorobenzene	F042424.D	54	50	109		85-114
Dibromofluoromethane	F042424.D	59	50	118		80-119
Toluene-d8	F042424.D	56	50	112		89-112

Trip Blank

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
HS24041309-02	VOA10	Water	04/24/24 16:18	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F042420.D	65	50	130		81-118
4-Bromofluorobenzene	F042420.D	66	50	132		85-114
Dibromofluoromethane	F042420.D	60	50	120		80-119
Toluene-d8	F042420.D	75	50	151		89-112

LCS-240424

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
LCS-240424	VOA10	Aqueous	04/24/24 22:35	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F042438.D	65.27	50	131		81-118
4-Bromofluorobenzene	F042438.D	53.36	50	107		85-114
Dibromofluoromethane	F042438.D	60.59	50	121		80-119
Toluene-d8	F042438.D	56.67	50	113		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Workorder: HS24041309

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA10-465037

LCSD-240424

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	LCSD-240424	Aqueous	04/24/24 22:56	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F042439.D	68.09	50	136		81-118
4-Bromofluorobenzene	F042439.D	54.07	50	108		85-114
Dibromofluoromethane	F042439.D	60.64	50	121		80-119
Toluene-d8	F042439.D	56.69	50	113		89-112

VBLKW-240424

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VBLKW-240424	Aqueous	04/24/24 15:15	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F042417.D	64.48	50	129		81-118
4-Bromofluorobenzene	F042417.D	57.41	50	115		85-114
Dibromofluoromethane	F042417.D	59.53	50	119		80-119
Toluene-d8	F042417.D	76.66	50	153		89-112

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	04/24/24 13:44	%REC	1
Instrument ID	VOA10				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	F042413.D	48.93	50	97.9		80-120
4-Bromofluorobenzene	F042413.D	54.24	50	108		80-120
Dibromofluoromethane	F042413.D	48.39	50	96.8		80-120
Toluene-d8	F042413.D	49.86	50	99.7		80-120

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24041309

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24041309

SAMPLENUM LCS-240424

Volatiles by EPA Volatiles Organics by Method 8260C

VOA10_465037			LCS-240424			LCSD-240424					
Spike Matrix Aqueous	Result Units ug/L		Run Date 04/24/24 Run Time 22:35			Run Date 04/24/24 Run Time 22:56					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	20	19.72	99		19.37	97		20	1.82	
1,1,1-Trichloroethane	74-131	20	21.66	108		20.98	105		20	3.21	
1,1,2,2-Tetrachloroethane	71-121	20	21.29	106		21.1	105		20	0.941	
1,1,2-Trichloroethane	80-119	20	21.18	106		21.1	105		20	0.383	
1,1-Dichloroethane	77-125	20	24.65	123		23.17	116		20	6.17	
1,1-Dichloroethene	71-131	20	21.43	107		19.89	100		20	7.44	
1,1-Dichloropropene	78-125	20	20	100		19.01	95		20	5.05	
1,2,3-Trichlorobenzene	69-129	20	17.89	90		17.45	87		20	2.53	
1,2,3-Trichloropropane	73-122	20	21	105		20.44	102		20	2.74	
1,2,4-Trichlorobenzene	69-130	20	18.1	90		17.7	88		20	2.24	
1,2,4-Trimethylbenzene	76-124	20	20.55	103		19.8	99		20	3.71	
1,2-Dibromo-3-chloropropane	62-128	20	18.83	94		18	90		20	4.49	
1,2-Dibromoethane	77-121	20	19.26	96		18.11	91		20	6.12	
1,2-Dichlorobenzene	80-119	20	18.67	93		17.88	89		20	4.31	
1,2-Dichloroethane	73-128	20	22.68	113		22.76	114		20	0.346	
1,2-Dichloropropane	78-122	20	22.28	111		22.34	112		20	0.242	
1,3,5-Trimethylbenzene	75-124	20	20.69	103		19.42	97		20	6.3	
1,3-Dichlorobenzene	80-119	20	18.94	95		18.26	91		20	3.66	
1,3-Dichloropropane	80-119	20	20.97	105		20.68	103		20	1.42	
1,4-Dichlorobenzene	79-118	20	18.53	93		18	90		20	2.92	
2,2-Dichloropropane	60-139	20	20.55	103		19.66	98		20	4.41	
2-Butanone	56-143	40	45.87	115		48.76	122		20	6.12	
2-Chlorotoluene	79-122	20	20.97	105		20.15	101		20	3.95	
2-Hexanone	57-139	40	42.35	106		43.63	109		20	2.97	
4-Chlorotoluene	78-122	20	20.64	103		19.84	99		20	3.95	
4-Isopropyltoluene	77-127	20	20.86	104		19.47	97		20	6.87	
4-Methyl-2-pentanone	67-130	40	47.06	118		47.86	120		20	1.7	
Acetone	39-160	40	50.58	126		50.34	126		20	0.475	
Benzene	79-120	20	21.31	107		20.41	102		20	4.3	
Bromobenzene	80-120	20	18.96	95		18.13	91		20	4.46	
Bromochloromethane	78-123	20	21.21	106		20.02	100		20	5.78	
Bromodichloromethane	79-125	20	21.72	109		21.87	109		20	0.683	
Bromoform	66-130	20	17.22	86		16.78	84		20	2.61	
Bromomethane	53-141	20	12.04	60		11.65	58		20	3.31	
Carbon disulfide	64-133	40	45.11	113		43.16	108		20	4.43	

Form 3B - Laboratory Control Sample Recovery

Client Bhate Environmental Associates, Inc.

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24041309

SAMPLENUM LCS-240424

Volatiles by EPA Volatiles Organics by Method 8260C

VOA10_465037			LCS-240424			LCSD-240424					
Spike Matrix Aqueous	Result Units ug/L		Run Date 04/24/24 Run Time 22:35			Run Date 04/24/24 Run Time 22:56					
Analyte	%Recovery Limits	Spike Added	LCS Result	%R	Q	LCSD Result	%R	Q	RPD Limit	RPD	Q
Carbon tetrachloride	72-136	20	19.44	97		19.54	98		20	0.539	
Chlorobenzene	82-118	20	19.24	96		18.77	94		20	2.51	
Chloroethane	60-138	20	25.86	129		24.57	123		20	5.11	
Chloroform	79-124	20	23.42	117		22.42	112		20	4.37	
Chloromethane	50-139	20	20.74	104		20.67	103		20	0.322	
cis-1,2-Dichloroethene	78-123	20	21.99	110		21.59	108		20	1.84	
cis-1,3-Dichloropropene	75-124	20	20.45	102		20.12	101		20	1.63	
Dibromochloromethane	74-126	20	19.66	98		19.46	97		20	1.03	
Dibromomethane	79-123	20	20.84	104		20.46	102		20	1.85	
Dichlorodifluoromethane	32-152	20	20.38	102		19.13	96		20	6.32	
Ethylbenzene	79-121	20	19.57	98		19.23	96		20	1.73	
Hexachlorobutadiene	66-134	20	16.73	84		16.38	82		20	2.09	
Isopropylbenzene	72-131	20	20.25	101		19.6	98		20	3.28	
m,p-Xylene	80-121	40	39.14	98		37.58	94		20	4.05	
Methylene chloride	74-124	20	21.95	110		21.47	107		20	2.23	
Naphthalene	61-128	20	16.34	82		16.39	82		20	0.33	
n-Butylbenzene	75-128	20	21.47	107		20.36	102		20	5.31	
n-Propylbenzene	76-126	20	21.73	109		20.21	101		20	7.25	
o-Xylene	78-122	20	19.3	96		18.68	93		20	3.26	
sec-Butylbenzene	77-126	20	21.57	108		20.6	103		20	4.64	
Styrene	78-123	20	20.26	101		19.71	99		20	2.76	
tert-Butylbenzene	78-124	20	21.18	106		20.07	100		20	5.35	
Tetrachloroethene	74-129	20	19.05	95		18.07	90		20	5.27	
Toluene	80-121	20	20.52	103		19.81	99		20	3.54	
trans-1,2-Dichloroethene	75-124	20	23.24	116		21.94	110		20	5.73	
trans-1,3-Dichloropropene	73-127	20	18.79	94		18.51	92		20	1.5	
Trichloroethene	79-123	20	18.45	92		17.63	88		20	4.57	
Trichlorofluoromethane	65-141	20	22.62	113		20.32	102		20	10.7	
Vinyl chloride	58-137	20	22.17	111		21.38	107		20	3.61	

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Form 4

Method Blank Summary

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24041309

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 4 - Method Blank Summary

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	HS24041309	

Volatiles by EPA Volatiles Organics by Method 8260C

METHOD BLANK	Matrix	Analysis Date	Analysis Batch	Inst ID
VBLKW-240424	Aqueous	04/24/24 15:15	R465037	VOA10

Client Sample ID	Lab Sample ID	Type	Analysis Date	Analysis Batch	Inst ID	FileID
Trip Blank	HS24041309-02	SAMP	04/24/24 16:18	R465037	VOA10	F042420.D
LH18/24-SP650_041724	HS24041309-01	SAMP	04/24/24 17:42	R465037	VOA10	F042424.D
LCS-240424	LCS-240424	LCS	04/24/24 22:35	R465037	VOA10	F042438.D
LCSD-240424	LCSD-240424	LCSD	04/24/24 22:56	R465037	VOA10	F042439.D

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Form 5

Instrument Performance Check

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24041309

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

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
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V10

Lab File ID: F042401 BFB Injection Date: 04/24/24

Instrument ID: VOA10 BFB Injection Time: 0933

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 60.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	102.0
175	5.0 - 9.0% of mass 174	7.9 (7.8)1
176	95.0 - 101.0% of mass 174	100.7 (98.7)1
177	5.0 - 9.0% of mass 176	6.1 (6.1)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	VSTD00.5	VSTD00.5	F042402	04/24/24	0954
02	VSTD001	VSTD001	F042403	04/24/24	1015
03	VSTD002	VSTD002	F042404	04/24/24	1036
04	VSTD005	VSTD005	F042405	04/24/24	1057
05	VSTD020	VSTD020	F042406	04/24/24	1118
06	VSTD050	VSTD050	F042407	04/24/24	1139
07	VSTD100	VSTD100	F042408	04/24/24	1159
08	VSTD150	VSTD150	F042409	04/24/24	1220
09	VSTD200	VSTD200	F042410	04/24/24	1241
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Contract:

Lab Code: Case No.: SAS No.: SDG No.: V10

Lab File ID: F042412 BFB Injection Date: 04/24/24

Instrument ID: VOA10 BFB Injection Time: 1323

GC Column: DB624 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.5
75	30.0 - 60.0% of mass 95	48.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	93.0
175	5.0 - 9.0% of mass 174	7.8 (8.3)1
176	95.0 - 101.0% of mass 174	90.7 (97.5)1
177	5.0 - 9.0% of mass 176	6.1 (6.7)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	VSTD050	VSTD050	F042413	04/24/24	1344
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

Form 5 - Instrument Performance Check

Client Bhate Environmental Associates, Inc.

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder **HS24041309**

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID VOA10-465037

Tune File F042412.D 04/24/24 4/24/2024

m / e	Ion Abundance Criterion	%RA
50	15.0 - 40.0% of mass 95	18.5 (18.5)
75	30.0 - 60.0% of mass 95	48.9 (48.9)
95	Base peak, 100% RA	100 (100)
96	5.0 - 9.0% of mass 95	7.2 (7.2)
173	Less than 2.0% of mass 174	0 (0) 1
174	greater than 50.0% of mass 95	93 (93) 1
175	5.0 - 9.0% of mass 174	7.8 (8.33) 1
176	> 95% but < 101% of mass 174	90.7 (97.5) 1
177	5.0 - 9.0% of mass 176	6.1 (6.72) 2

%RA - Percent Relative Abundance

This check applies to the following analyses

	Lab Samp ID	Type	Date Analyzed	Lab File ID	Sample ID
1	VSTD050	CCV	4/24/2024	F042413	VSTD050
2	VBLKW-	MBLK	4/24/2024	F042417	VBLKW-240424
3	HS24041309-	SAMP	4/24/2024	F042420	Trip Blank
4	HS24041309-	SAMP	4/24/2024	F042424	LH18/24-SP650_041724
5	LCS-240424	LCS	4/24/2024	F042438	LCS-240424
6	LCSD-240424	LCSD	4/24/2024	F042439	LCSD-240424
7	VSTD050	CCV_EN	4/24/2024	F042440	VSTD050

Report Date : 20-May-2024 16:59 Page 1

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 23-APR-2024 18:09
End Cal Date : 24-APR-2024 12:41
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
Last Edit : 20-May-2024 16:46 s.zaid

Calibration File Names:
Level 1: \\NAHSTWS005\Target\chem\voa10.i\F240423.b\F042302.D
Level 2: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042402.D
Level 3: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042403.D
Level 4: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042404.D
Level 5: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042405.D
Level 6: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042406.D
Level 7: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042407.D
Level 8: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042408.D
Level 9: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042409.D
Level 10: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042410.D

Compound	0.2500000 Level 1 50.0000 Level 7	0.5000000 Level 2 100.0000 Level 8	1.0000 Level 3 150.0000 Level 9	2.0000 Level 4 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
2 Dichlorodifluoromethane	+++++ 54696	106 115207	1055 173650	1432 238522	5812	20770	LINR	0.01878	0.31492		0.99976	<-
3 Chloromethane	+++++ 0.40355	0.44900 0.43799	0.40204 0.44811	0.39169 0.45296	0.45144	0.42968	AVRG		0.42961		5.63441	
4 Propionitrile	+++++ 0.06173	0.04675 0.06121	0.05610 0.05862	0.05755 0.05898	0.06339	0.06179	AVRG		0.05846		8.49689	

Report Date : 20-May-2024 16:59 Page 2

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 23-APR-2024 18:09
End Cal Date : 24-APR-2024 12:41
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
Last Edit : 20-May-2024 16:46 s.zaid

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
5 Vinyl Chloride	+++++ / 72351	481 / 155852	1332 / 233906	2525 / 331310	7748	28410	LINR	0.02736	0.43277		0.99909	
6 Bromomethane	+++++ / 29833	185 / 70753	414 / 110840	1003 / 154616	2818	10803	LINR	0.06145	0.20387		0.99774	<-
7 Chloroethane	+++++ / 45316	269 / 95693	910 / 142791	1781 / 192225	5068	18535	LINR	0.00161	0.25520		0.99967	
8 Trichlorofluoromethane	+++++ / 92323	344 / 194227	1500 / 290346	2494 / 398699	10196	35801	LINR	0.01395	0.52640		0.99977	
9 Acrolein	+++++ / 46583	+++++ / 100002	647 / 157834	968 / 223114	4189	16911	LINR	0.12484	0.14647		0.99841	<-
10 Acetone	+++++ / 49984	1125 / 91887	1482 / 140643	2454 / 183085	6213	21428	LINR	-0.08894	0.12176		0.99896	
11 1,1-Dichloroethene	+++++ / 62081	311 / 130816	1173 / 191976	2454 / 263673	6453	24698	LINR	0.00669	0.34835		0.99965	

Report Date : 20-May-2024 16:59 Page 3

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 23-APR-2024 18:09
End Cal Date : 24-APR-2024 12:41
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
Last Edit : 20-May-2024 16:46 s.zaid

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
12 Isobutyl Alcohol	+++++	0.04654	0.05154	0.05629	0.06143	0.06324					
	0.06372	0.06765	0.06664	0.06678			AVRG		0.06043		12.27267
13 Acetonitrile	+++++	568	1787	3933	10863	40009					
	108654	231850	330877	446626			LINR	0.00906	0.05964		0.99883
14 Allyl Chloride	+++++	0.91866	1.04133	1.09811	1.24617	1.07195					
	1.10968	1.14356	0.80976	+++++			AVRG		1.05490		12.84078
15 Iodomethane	+++++	394	822	1994	7443	36686					
	110423	239651	378640	544915			LINR	0.13871	0.35563		0.99746
16 Acrylonitrile	+++++	368	882	1974	5825	22300					
	57980	113652	166937	228739			QUAD	0.00639	6.36554	0.23807	0.99982
17 Methylene Chloride	+++++	1812	2629	4039	8394	28612					
	71179	144026	216000	294578			LINR	-0.01205	0.38706		0.99992
18 Methyl tert-butyl ether	+++++	1605	4067	7549	21335	80611					
	213609	430706	637945	882428			QUAD	0.00454	0.86347	-0.00051	0.99981

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 23-APR-2024 18:09
End Cal Date : 24-APR-2024 12:41
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
Last Edit : 20-May-2024 16:46 s.zaid

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Carbon Disulfide	+++++	0.83632	1.03458	0.88500	1.05716	1.05848					
	1.02294	1.10661	1.08526	1.10517			AVRG		1.02128		9.42019
20 trans-1,2-Dichloroethene	+++++	0.24674	0.29915	0.31499	0.35653	0.37160					
	0.36660	0.39222	0.38519	0.38865			AVRG		0.34685		14.30126
21 Vinyl Acetate	+++++	0.21232	0.21543	0.22965	0.23319	0.21089					
	0.22319	0.20839	0.22998	0.23579			AVRG		0.22209		4.73533
22 1,1-Dichloroethane	+++++	0.53266	0.64670	0.66148	0.69007	0.69163					
	0.67805	0.68653	0.67021	0.68661			AVRG		0.66044		7.59710
23 Chloroprene	+++++	484	1690	2979	10083	41042					
	106204	218032	329039	450929			LINR	0.01386	0.59538		0.99991
24 2-Butanone	+++++	0.19591	0.15076	0.18511	0.20444	0.17274					
	0.18292	0.18199	0.17879	0.17759			AVRG		0.18114		8.26309
25 Methacrylonitrile	+++++	306	1081	2432	6308	24786					
	64848	129999	193601	259581			LINR	-0.00332	0.34534		0.99970

Report Date : 20-May-2024 16:59 Page 5

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 23-APR-2024 18:09
End Cal Date : 24-APR-2024 12:41
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
26 2,2-Dichloropropane	+++++	610	1508	2965	9122	36602					
	95724	200705	303904	418728			LINR	0.02066	0.55207		0.99977
27 cis-1,2-Dichloroethene	+++++	0.40717	0.33909	0.37087	0.40637	0.41376					
	0.41282	0.42452	0.41745	0.41838			AVRG		0.40116		6.95996
28 Chloroform	+++++	0.61579	0.59300	0.64909	0.67614	0.66919					
	0.65474	0.67493	0.65728	0.65356			AVRG		0.64930		4.27935
29 Bromochloromethane	+++++	214	754	1521	3742	15343					
	38781	73951	109339	143837			LINR	-0.02523	0.19240		0.99887
31 1,1,1-Trichloroethane	+++++	688	1815	3198	10575	40402					
	104624	211733	320177	441882			LINR	0.01157	0.58118		0.99990
32 1,1-Dichloropropene	+++++	0.47650	0.49041	0.39716	0.43243	0.38775					
	0.39261	0.40198	0.40351	0.41160			AVRG		0.42155		8.90023
33 1,2-Dichloroethane	+++++	0.43396	0.34940	0.40747	0.40176	0.38688					
	0.39038	0.40226	0.39219	0.38988			AVRG		0.39491		5.64287

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34 Carbon Tetrachloride	+++++	0.28876	0.40669	0.32571	0.39621	0.34621						
	0.34980	0.37519	0.38099	0.38788			AVRG		0.36194		10.45280	
37 Benzene	+++++	1.16691	1.19142	1.15326	1.22290	1.20272						
	1.20546	1.23768	1.22514	1.24161			AVRG		1.20523		2.53226	
38 Trichloroethene	+++++	0.33744	0.36110	0.33502	0.35498	0.32610						
	0.33521	0.34261	0.33260	0.33731			AVRG		0.34026		3.26112	
39 Bromodichloromethane	+++++	0.30553	0.32317	0.31451	0.36913	0.37153						
	0.37109	0.38937	0.38923	0.38737			AVRG		0.35788		9.45409	
40 Methyl Methacrylate	+++++	413	1316	2778	7663	29588						
	78706	155675	230250	312973			LINR	-0.00311	0.41437		0.99977	
41 2-Chloroethylvinyl ether	+++++	+++++	+++++	+++++	+++++	948						
	3129	4954	6548	7407			QUAD	0.79103	-21.41614	8512	0.99441	<-
42 1,2-Dichloropropane	+++++	0.30062	0.28323	0.29329	0.33395	0.31796						
	0.31799	0.32418	0.31570	0.31305			AVRG		0.31111		5.10277	

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43 2-Nitropropane	+++++	+++++	287	649	2063	7700						
	20664	47122	70031	99918			LINR	0.05186	0.13119		0.99836	<-
44 Dibromomethane	+++++	0.14643	0.16320	0.17882	0.17457	0.17670						
	0.17229	0.18011	0.17905	0.17857			AVRG		0.17219		6.37849	
45 4-Methyl-2-Pentanone	+++++	0.34294	0.30776	0.35175	0.41027	0.38243						
	0.41961	0.42674	0.41478	0.42066			AVRG		0.38633		11.04618	
46 cis-1,3-Dichloropropene	+++++	0.32476	0.32337	0.33182	0.38892	0.37462						
	0.40880	0.44704	0.45563	0.45775			AVRG		0.39030		14.27134	
49 Ethyl Methacrylate	+++++	0.33130	0.43997	0.41027	0.46339	0.46442						
	0.50404	0.50187	0.49424	0.48921			AVRG		0.45541		12.27421	
50 Toluene	+++++	1.49850	1.43162	1.37170	1.50977	1.40578						
	1.47966	1.51112	1.46502	1.48378			AVRG		1.46188		3.33877	
51 trans-1,3-Dichloropropene	+++++	489	1091	2516	6819	28862						
	78263	169645	267377	365364			LINR	0.04390	0.36934		0.99900	

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	50.0000 Level 7	100.0000 Level 8	150.0000 Level 9	200.0000 Level 10							
52 2-Hexanone	+++++	776	1859	3793	12780	45167					
	118551	245936	383480	514502			LINR	0.04362	0.30037		0.99977
53 1,1,2-Trichloroethane	+++++	0.24350	0.24181	0.25133	0.27619	0.26251					
	0.26555	0.27099	0.25985	0.26451			AVRG		0.25958		4.55246
54 1,3-Dichloropropane	+++++	0.62940	0.49209	0.49358	0.56557	0.51945					
	0.53069	0.53813	0.53043	0.53343			AVRG		0.53697		7.69554
55 Dibromochloromethane	+++++	0.28527	0.29104	0.27527	0.32258	0.32560					
	0.36103	0.37059	0.36499	0.36545			AVRG		0.32909		11.60675
56 Tetrachloroethene	+++++	0.25964	0.28051	0.23193	0.31863	0.30806					
	0.32106	0.33593	0.32806	0.33631			AVRG		0.30224		12.18492
57 1,2-Dibromoethane	+++++	0.26106	0.27868	0.25519	0.27902	0.23314					
	0.23769	0.25063	0.25357	0.27235			AVRG		0.25793		6.42481
58 1-Chlorohexane	+++++	2182	3143	4012	8900	28213					
	65459	132717	203769	283405			LINR	-0.00569	0.28134		0.99930

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59 Chlorobenzene	+++++	0.96071	0.96701	0.93542	1.00670	0.92940					
	0.94999	0.97165	0.95864	0.97046			AVRG		0.96111		2.35735
60 1,1,1,2-Tetrachloroethane	+++++	0.28527	0.26379	0.26086	0.31060	0.30160					
	0.32376	0.34111	0.33984	0.34490			AVRG		0.30797		10.55941
61 Ethylbenzene	+++++	0.46707	0.44652	0.45863	0.49067	0.46243					
	0.47474	0.50816	0.50989	0.51981			AVRG		0.48199		5.40506
62 m,p-Xylenes	+++++	0.58051	0.56525	0.55213	0.62303	0.58861					
	0.61867	0.63857	0.63562	0.64863			AVRG		0.60567		5.75492
63 o-Xylene	+++++	0.59950	0.58323	0.59219	0.61196	0.57523					
	0.60589	0.61445	0.61286	0.62132			AVRG		0.60185		2.58212
64 Styrene	+++++	0.82306	0.90266	0.88414	1.02685	0.98908					
	1.02073	1.06373	1.05765	1.08435			AVRG		0.98358		9.34242
65 cis-1,4-Dichloro-2-butene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000

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66 Bromoform	+++++	355	795	1775	4979	20792						
	54682	117689	184507	257040			LINR	0.04527	0.29696		0.99864	
67 Isopropylbenzene	+++++	1.12589	1.37964	1.24939	1.46700	1.40707						
	1.47492	1.51491	1.53010	1.58494			AVRG		1.41487		10.32494	
68 1,1,2,2-Tetrachloroethane	+++++	0.69260	0.71051	0.78292	0.83890	0.79512						
	0.82330	0.84530	0.83451	0.82254			AVRG		0.79397		7.08827	
71 1,2,3-Trichloropropane	+++++	0.70365	0.73367	0.84329	0.84052	0.80437						
	0.81752	0.82079	0.83216	+++++			AVRG		0.79950		6.51440	
72 trans-1,4-Dichloro-2-butene	+++++	71.00000	207	491	1396	5604						
	15603	36142	58933	87642			QUAD	0.02458	13.05310	-8.16923	0.99961	<-
73 n-Propylbenzene	+++++	2.57147	2.69504	2.61344	3.06050	2.93392						
	3.02359	3.10183	3.06962	3.08123			AVRG		2.90563		7.46427	
74 Bromobenzene	+++++	0.87957	0.77831	0.86778	0.81832	0.81816						
	0.83223	0.84506	0.82775	0.81552			AVRG		0.83141		3.62361	

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75 1,3,5-Trimethylbenzene	+++++	2.25925	1.90283	2.01616	2.24850	2.26272					
	2.31607	2.36133	2.34456	2.33234			AVRG		2.22708		7.15645
76 2-Chlorotoluene	+++++	1.92952	1.79922	1.87564	1.92993	1.90420					
	1.90067	1.94241	1.91139	1.88007			AVRG		1.89701		2.26582
77 4-Chlorotoluene	+++++	2.31451	2.05782	2.08448	2.19292	2.13420					
	2.12932	2.18784	2.16365	2.15747			AVRG		2.15802		3.41569
78 tert-Butylbenzene	+++++	1.52428	1.68298	1.61396	1.94103	1.91608					
	1.91202	1.90344	1.88060	1.88958			AVRG		1.80711		8.63964
79 1,2,4-Trimethylbenzene	+++++	2.22977	2.10204	2.08641	2.26250	2.27490					
	2.28397	2.29893	2.29652	2.30141			AVRG		2.23738		3.76475
80 Pentachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
81 sec-Butylbenzene	+++++	1.89176	2.10372	2.04989	2.48100	2.51428					
	2.54639	2.57415	2.53325	2.55125			AVRG		2.36063		11.27493

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82 p-Isopropyltoluene	+++++	1.71124	1.96011	1.94869	2.35737	2.31923					
	2.36508	2.39584	2.38793	2.40283			AVRG		2.20537		11.78471
83 1,3-Dichlorobenzene	+++++	1.41376	1.45050	1.37955	1.46613	1.42413					
	1.42118	1.49223	1.48742	1.48453			AVRG		1.44660		2.71151
84 1,4-Dichlorobenzene	+++++	1.71493	1.55073	1.48999	1.52436	1.43328					
	1.44811	1.50343	1.48770	1.48889			AVRG		1.51571		5.45396
85 bis(2-Chloro-isopropyl)ether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
86 Benzyl Chloride	+++++	0.84395	0.89213	0.86621	1.09984	1.04482					
	1.10358	1.14287	1.16120	1.23071			AVRG		1.04281		13.54981
87 n-Butylbenzene	+++++	1.63756	1.64086	1.64017	2.02240	1.99947					
	2.03670	2.06400	2.05240	2.07928			AVRG		1.90809		10.62438
88 1,2-Dichlorobenzene	+++++	1.47270	1.46439	1.43499	1.46673	1.41442					
	1.43490	1.49229	1.47829	1.46713			AVRG		1.45843		1.70827

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89 1,2-Dibromo-3-Chloropropane	+++++	+++++	137	421	1502	5366						
	13664	28490	45863	64905			LINR	0.02499	0.12759		0.99969	<-
90 1,2,4-Trichlorobenzene	+++++	0.90167	0.87939	0.97241	1.05902	1.09913						
	1.13763	1.18967	1.18237	1.15875			AVRG		1.06445		11.22827	
91 Hexachlorobutadiene	+++++	341	1057	2031	5951	23440						
	62585	132597	208522	287068			LINR	0.01274	0.57093		0.99982	
92 Naphthalene	+++++	4684	7324	12180	32078	120648						
	308730	640613	972745	1319862			LINR	-0.01549	2.63704		0.99917	
93 1,2,3-Trichlorobenzene	+++++	0.81233	0.83770	0.90108	0.98098	0.98289						
	1.02241	1.08702	1.07145	1.06363			AVRG		0.97328		10.45288	
130 Ethyl Acetate	+++++	0.42465	0.43087	0.45917	0.41108	0.44590						
	0.45131	0.48417	0.45997	0.47158			AVRG		0.44874		5.19304	
131 Methyl Acrylate	+++++	409	1168	2594	7042	26105						
	70279	141905	209011	288706			LINR	0.00465	0.38035		0.99976	

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132 n-Butanol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-
133 Ethyl Acrylate	+++++	0.33834	0.45044	0.42636	0.46912	0.45860						
	0.49580	0.51974	0.52044	0.53401			AVRG		0.46809		12.97310	
134 Cyclohexanone	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
135 1,4-Dioxane	+++++	78.00000	336	708	2118	8254						
	21959	45538	68686	94742			LINR	0.37379	0.00624		0.99982	<-
136 n-Hexane	+++++	37.00000	846	1287	6216	26065						
	72022	151367	237487	327215			LINR	0.04064	0.43184		0.99943	<-
137 n-Pentane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
138 Freon TF	+++++	43.00000	906	1419	6474	23607						
	62646	130684	196448	271797			LINR	0.02071	0.35815		0.99976	<-

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146 Methyl Acetate	+++++	0.60626	0.58533	0.63696	0.60347	0.57772						
	0.60345	0.62638	0.61073	0.61350			AVRG		0.60709		3.01612	
147 Methylcyclohexane	+++++	485	896	2310	11764	47269						
	118463	235319	340510	480328			LINR	0.00599	0.48054		0.99936	
149 Isopropyl alcohol	+++++	0.02118	0.02616	0.02550	0.02884	0.02980						
	0.02951	0.03126	0.03064	0.03179			AVRG		0.02830		12.07991	
152 Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	
150 Allyl alcohol	+++++	+++++	118	673	2108	8803						
	31853	65737	98873	141278			LINR	1.25140	0.00930		0.99867	<-
151 4-Methyl-2-pentanol	+++++	3181	9348	19483	53271	202285						
	545997	1213939	1797053	2578939			LINR	0.83270	0.12862		0.99831	
148 Tert-butyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000	<-

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Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
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Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
139 Diethyl ether	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
140 1,3-Butadiene	+++++	344	1167	1753	7278	27383	LINR	0.02405	0.42736		0.99960	
	74300	155632	232773	325159								
141 Cyclohexane	+++++	2688	4077	4708	12015	38708	LINR	-0.00496	0.54851		0.99989	
	100001	201138	304780	418445								
142 Tetrahydrofuran	+++++	+++++	0.08332	0.06096	0.07454	0.08883	AVRG		0.07525		11.68727	
	0.07011	0.08087	0.07039	0.07295								
143 1-Chlorobutane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
	+++++	+++++	+++++	+++++								
144 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
	+++++	+++++	+++++	+++++								
145 alpha-Methylstyrene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
	+++++	+++++	+++++	+++++								

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 23-APR-2024 18:09
End Cal Date : 24-APR-2024 12:41
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
Last Edit : 20-May-2024 16:46 s.zaid

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
153 Tetraethyl lead	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
154 2,3-Dichlorobutane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
155 2-Pentanone	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
156 Diisopropyl ether	+++++ / 1.42890	1.07379 / 1.42447	1.28017 / 1.37353	1.21212 / 1.40001	1.47875	1.36987	AVRG		1.33796		9.55214	
157 n-Heptane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
158 Dichlorofluoromethane	+++++ / 0.58559	0.39605 / 0.60980	0.53402 / 0.59794	0.52507 / 0.60466	0.62903	0.60284	AVRG		0.56500		12.78111	
159 Propylene oxide	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 23-APR-2024 18:09
End Cal Date : 24-APR-2024 12:41
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
Last Edit : 20-May-2024 16:46 s.zaid

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
160 2-Methylnaphthalene	+++++	795	1890	4057	12486	57044					
	173036	390390	620204	865107			LINR	0.04492	1.72218		0.99928
161 3-Methyl-1-butanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
162 Butyl acrylate	+++++	763	2389	4638	13471	57867					
	164884	361747	560930	786256			LINR	0.05383	0.90944		0.99837
163 Butyl methacrylate	+++++	629	1862	3759	10338	42000					
	115652	246733	387022	543157			LINR	0.02173	1.07392		0.99984
164 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
165 4-Vinyl-1-cyclohexene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
166 1,2,3-Trimethylbenzene	+++++	1.96544	2.17827	2.21554	2.26797	2.29427					
	2.28857	2.27015	2.21447	2.22867			AVRG		2.21371		4.55512

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 23-APR-2024 18:09
End Cal Date : 24-APR-2024 12:41
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
Last Edit : 20-May-2024 16:46 s.zaid

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
167 Ethanol	+++++ / 18703	83.00000 / 37609	337 / 55945	775 / 75343	2237	7340	LINR	-0.16973	0.00499		0.99976	
168 1-Propanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
170 1,3,5-Trichlorobenzene	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
172 tert-Butyl formate	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
173 3,3-Dimethyl-1-butanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
174 tert-Amyl methyl ether	+++++ / 1.22913	0.82705 / 1.28775	1.03260 / 1.27108	1.02194 / 1.29944	1.09965	1.15118	AVRG		1.13554		13.83198	
175 tert-Butyl ethyl ether	+++++ / 1.25455	0.88953 / 1.27683	1.04873 / 1.26256	1.05462 / 1.29206	1.19247	1.25091	AVRG		1.16914		11.93447	

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 23-APR-2024 18:09
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
Last Edit : 20-May-2024 16:46 s.zaid

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
176 tert-Amyl alcohol	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
177 Dimethyl ether	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
178 Ethylene oxide	+++++ 0.67387	0.67139 0.68173	0.46697 0.57220	0.67327 0.54905	0.56762	0.63950	AVRG		0.61062		12.31807	
179 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
180 1-Methylnaphthalene	+++++ 154314	802 332570	1770 520784	3693 726404	11788	51183	LINR	0.03083	1.44439		0.99966	
181 2-Furfural	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
182 Epichlorohydrin	+++++ 24635	+++++ 48553	296 74424	840 104311	2181	8983	LINR	0.11685	0.02612		0.99934	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
Last Edit : 20-May-2024 16:46 s.zaid

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
183 2-Methylpropane(1)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
(2)	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
184 Cyclopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
185 Isoprene	+++++	+++++	177	414	2126	8144						
	19668	41004	63315	87212			LINR	0.02543	0.11489		0.99967	<-
186 Isopentane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
187 n-Amyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
188 Isopropyl acetate	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

ALS Laboratory Group

INITIAL CALIBRATION DATA

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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
Last Edit : 20-May-2024 16:46 s.zaid

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
189 n-Butyl acetate	+++++ / 0.65735	0.51785 / 0.71331	0.53995 / 0.71308	0.67865 / 0.72990	0.54398	0.59890	AVRG		0.63255		13.21860
190 Propanal	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
191 n-Buteraldehyde	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
192 Isobuteraldehyde	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
193 2-Ethyl-1-hexanol	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
194 Acetaldehyde	+++++ / 42152	497 / 82765	681 / 119474	2029 / 162167	4433	22457	LINR	-0.17743	0.05336		0.99813
195 Methyl Amyl Ketone	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++ / +++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 23-APR-2024 18:09
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Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
Last Edit : 20-May-2024 16:46 s.zaid

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
196 2-Methylpentane	*****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000	
197 3-Methylpentane	*****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000	
198 Methylcyclopentane	*****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000	
199 1-Hexene	*****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000	
200 Dimethyl Disulfide	*****	284	1045	1978	6833	31578	QUAD	0.04273	1.93312	-0.14289	0.99922	
	101666	235609	377637	537278								
201 1-Butene(1)	*****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000	
(2)	*****	*****	*****	*****	*****	*****	AVRG		0.000e+000		0.000e+000	<-

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 23-APR-2024 18:09
End Cal Date : 24-APR-2024 12:41
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
Last Edit : 20-May-2024 16:46 s.zaid

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
202 Isobutylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++	+++++			AVRG		0.000e+000		0.000e+000
203 2-Ethylhexyl Acrylate	+++++	316	964	1783	5611	28474					
	98504	232198	371435	+++++			QUAD	0.04323	1.09699	-0.04578	0.99817
204 2-Chloropropene	+++++	638	1696	2873	10308	38997					
	94749	193284	279254	371424			LINR	-0.01760	0.49635		0.99887
M 94 1,2-Dichloroethylene (total)	+++++	0.32696	0.31912	0.34293	0.38145	0.39268					
	0.38971	0.40837	0.40132	0.40351			AVRG		0.37401		9.28183
M 95 Xylenes (total)	+++++	0.50568	0.50325	0.49869	0.55215	0.52011					
	0.53122	0.54264	0.55135	0.55393			AVRG		0.52878		4.25604
$ 30 Dibromofluoromethane	+++++	+++++	0.42055	0.36810	0.39747	0.36647					
	0.36448	0.36097	0.35319	0.35771			AVRG		0.37362		6.20925
$ 35 1,2-Dichloroethane-d4	+++++	+++++	0.51154	0.46471	0.44811	0.42553					
	0.40657	0.41799	0.40909	0.40776			AVRG		0.43641		8.44011

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ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 23-APR-2024 18:09
End Cal Date : 24-APR-2024 12:41
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
Last Edit : 20-May-2024 16:46 s.zaid

Compound	0.2500000 Level 1 / 50.0000 Level 7	0.5000000 Level 2 / 100.0000 Level 8	1.0000 Level 3 / 150.0000 Level 9	2.0000 Level 4 / 200.0000 Level 10	5.0000 Level 5	20.0000 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
$ 48 Toluene-d8	+++++ / 1.25952	+++++ / 1.25592	1.65717 / 1.22015	1.22624 / 1.24607	1.32695	1.22974	AVRG		1.30272		11.29220
$ 69 4-Bromofluorobenzene	+++++ / 92998	+++++ / 184907	4803 / 283999	5978 / 391654	11639	37265	LINR	-0.00226	0.44979		0.99943

Report Date : 20-May-2024 16:59 Page 26

ALS Laboratory Group

INITIAL CALIBRATION DATA

Start Cal Date : 23-APR-2024 18:09
End Cal Date : 24-APR-2024 12:41
Quant Method : ISTD

Target Version : 4.14
Integrator   : HP RTE
Method file   : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\8260W.m
Last Edit   : 20-May-2024 16:46 s.zaid

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

right solutions.
right partner.

Form 6I

Initial Calibration Verification (ICV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24041309

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24041309

RunID F042413.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	F042413.D	**Inj Date**	24-APR-2024 1344

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
1,1,1,2-Tetrachloroethane	50.0	52.8	106	80-120	
1,1,1-Trichloroethane	50.0	48.8	97.6	80-120	
1,1,2,2-Tetrachloroethane	50.0	55.7	111	80-120	
Freon TF	50.0	47.9	95.9	80-120	
Methyl Acetate	50.0	53.9	108	80-120	
Cyclohexane	50.0	50.6	101	80-120	
Methylcyclohexane	50.0	51.8	104	80-120	
Carbon Disulfide	100	105	105	80-120	
2-Hexanone	100	103	103	80-120	
1,1,2-Trichloroethane	50.0	52.6	105	80-120	
1,1-Dichloroethane	50.0	52.8	106	80-120	
1,1-Dichloroethene	50.0	48.1	96.2	80-120	
1,1-Dichloropropene	50.0	47.1	94.2	80-120	
1,2,3-Trichlorobenzene	50.0	55.0	110	80-120	
1,2,3-Trichloropropane	50.0	54.2	108	80-120	
1,2,4-Trichlorobenzene	50.0	55.9	112	80-120	
1,2,4-Trimethylbenzene	50.0	56.5	113	80-120	
1,2-Dibromo-3-Chloropropane	50.0	54.6	109	80-120	
1,2-Dibromoethane	50.0	45.7	91.5	80-120	
Acrolein	100	112	112	80-120	
Acrylonitrile	100	119	119	80-120	
1,2-Dichlorobenzene	50.0	51.6	103	80-120	
1,2-Dichloroethane	50.0	50.8	102	80-120	
1,2-Dichloropropane	50.0	53.4	107	80-120	
1,3,5-Trimethylbenzene	50.0	54.8	110	80-120	
1,3-Dichlorobenzene	50.0	53.6	107	80-120	
1,3-Dichloropropane	50.0	50.3	101	80-120	
1,4-Dichlorobenzene	50.0	49.8	99.6	80-120	
1-Chlorohexane	50.0	51.9	104	80-120	
2,2-Dichloropropane	50.0	47.7	95.4	80-120	
2-Butanone	100	104	104	80-120	
2-Chloroethylvinyl ether	100	120	120	80-120	
2-Chlorotoluene	50.0	53.3	107	80-120	
4-Chlorotoluene	50.0	53.5	107	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24041309

RunID F042413.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	F042413.D	**Inj Date**	24-APR-2024 1344

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
p-Isopropyltoluene	50.0	56.5	113	80-120	
4-Methyl-2-Pentanone	100	114	114	80-120	
Acetone	100	115	115	80-120	
Acetonitrile	500	417	83.3	80-120	
Allyl Chloride	50.0	57.1	114	80-120	
Benzene	50.0	51.2	102	80-120	
Bromobenzene	50.0	51.5	103	80-120	
Bromochloromethane	50.0	51.8	104	80-120	
Bromodichloromethane	50.0	53.9	108	80-120	
Bromoform	50.0	48.1	96.2	80-120	
Bromomethane	50.0	47.5	94.9	80-120	
Carbon Tetrachloride	50.0	50.9	102	80-120	
Chlorobenzene	50.0	49.8	99.6	80-120	
Chloroethane	50.0	52.4	105	80-120	
Chloroform	50.0	50.8	102	80-120	
Chloromethane	50.0	56.4	113	80-120	
Chloroprene	50.0	50.1	100	80-120	
cis-1,2-Dichloroethene	50.0	50.8	102	80-120	
cis-1,3-Dichloropropene	50.0	53.4	107	80-120	
Dibromochloromethane	50.0	53.5	107	80-120	
Dibromomethane	50.0	52.2	104	80-120	
Dichlorodifluoromethane	50.0	49.9	99.7	80-120	
Ethylbenzene	50.0	51.5	103	80-120	
Ethyl Methacrylate	50.0	58.4	117	80-120	
Iodomethane	100	81.7	81.7	80-120	
Isobutyl Alcohol	1000	1143	114	70-130	
Propionitrile	500	546	109	70-130	
Hexachlorobutadiene	50.0	51.3	103	80-120	
Isopropylbenzene	50.0	53.1	106	80-120	
m,p-Xylenes	100	103	103	80-120	
Methyl tert-butyl ether	50.0	59.4	119	80-120	
Methylene Chloride	50.0	49.8	99.7	80-120	
Methacrylonitrile	50.0	54.7	109	80-120	
Methyl Methacrylate	50.0	54.6	109	80-120	

Form 6I Initial Calibration Verification (ICV)

Client Bhate Environmental Associates, Inc.
Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24041309

RunID F042413.D

Volatiles by EPA Volatiles Organics by Method 8260C

Sample Matrix	LIQUID	**Fraction**	VOA
Lab Smp Id	VSTD050	**Client Smp ID**	VSTD050
Data Type	MS DATA	**SampleType**	METHSPIKE
File ID	F042413.D	**Inj Date**	24-APR-2024 1344

Compound	Conc Added	Conc Recovered	% Recovered	Limits	Q
n-Butylbenzene	50.0	57.8	116	80-120	
n-Propylbenzene	50.0	55.7	111	80-120	
Naphthalene	50.0	52.6	105	80-120	
o-Xylene	50.0	50.9	102	80-120	
sec-Butylbenzene	50.0	59.2	118	80-120	
Styrene	50.0	53.4	107	80-120	
tert-Butylbenzene	50.0	58.6	117	80-120	
Tetrachloroethene	50.0	52.3	105	80-120	
Toluene	50.0	50.8	102	80-120	
trans-1,2-Dichloroethene	50.0	59.2	118	80-120	
trans-1,3-Dichloropropene	50.0	47.9	95.7	80-120	
trans-1,4-Dichloro-2-butene	50.0	48.0	96.0	80-120	
Trichloroethene	50.0	48.4	96.7	80-120	
Trichlorofluoromethane	50.0	49.8	99.6	80-120	
Vinyl Acetate	100	112	112	80-120	
Vinyl Chloride	50.0	51.4	103	80-120	
1,2-Dichloroethylene (total)	100	110	110	80-120	
Xylenes (total)	150	154	102	80-120	
1,4-Dioxane	1000	996	99.6	80-120	
Dibromofluoromethane	50.0	48.4	96.8	70-130	
1,2-Dichloroethane-d4	50.0	48.9	97.9	70-130	
Toluene-d8	50.0	49.9	99.7	70-130	
4-Bromofluorobenzene	50.0	54.2	108	70-130	

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Form 7

Continuing Calibration Verification (CCV)

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24041309

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc.
Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24041309

RunID F042440.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID F042440.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-APR-2024 2317
ICAL Date(s) 23-APR-2024, 24-APR-2024
ICAL Times 18:09, 12:41
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Dichlorodifluoromethane	50.0	48.2	0.298	0.100	3.56	50.0	Linear	
Chloromethane	0.430	0.424	0.424	0.100	1.37	50.0	Averaged	
Propionitrile	0.058	0.074	0.074	0.010	-26.724	50.0	Averaged	
Vinyl Chloride	50.0	49.5	0.417	0.100	1.02	50.0	Linear	
Bromomethane	50.0	29.1	0.106	0.100	41.8	50.0	Linear	
Chloroethane	50.0	55.2	0.281	0.100	-10.351	50.0	Linear	
Trichlorofluoromethane	50.0	48.6	0.504	0.100	2.81	50.0	Linear	
Acrolein	100	92.7	0.127	0.020	7.26	50.0	Linear	
Acetone	100	130	0.164	0.100	-29.862	50.0	Linear	
1,1-Dichloroethene	50.0	47.6	0.330	0.100	4.70	50.0	Linear	
Isobutyl Alcohol	0.060	0.075	0.075	0.005	-24.784	50.0	Averaged	
Acetonitrile	500	536	0.064	0.005	-7.117	50.0	Linear	
Allyl Chloride	1.05	1.02	1.02	0.100	3.38	50.0	Averaged	
Iodomethane	100	54.9	0.171	0.100	45.1	50.0	Linear	
Acrylonitrile	100	124	0.191	0.050	-23.547	50.0	Quadratic	
Methylene Chloride	50.0	48.5	0.380	0.100	2.98	50.0	Linear	
Methyl tert-butyl ether	50.0	56.7	1.31	0.100	-13.437	50.0	Quadratic	
Carbon Disulfide	1.02	1.03	1.03	0.100	-1.180	50.0	Averaged	
trans-1,2-Dichloroethene	0.347	0.350	0.350	0.100	-0.829	50.0	Averaged	
Vinyl Acetate	0.222	0.273	0.273	0.010	-22.848	50.0	Averaged	
1,1-Dichloroethane	0.660	0.706	0.706	0.200	-6.957	50.0	Averaged	
Chloroprene	50.0	52.7	0.619	0.100	-5.382	50.0	Linear	
2-Butanone	0.181	0.212	0.212	0.100	-17.033	50.0	Averaged	
Methacrylonitrile	50.0	65.1	0.451	0.100	-30.285	50.0	Linear	
2,2-Dichloropropane	50.0	42.0	0.452	0.100	16.0	50.0	Linear	
cis-1,2-Dichloroethene	0.401	0.391	0.391	0.100	2.48	50.0	Averaged	
Chloroform	0.649	0.657	0.657	0.200	-1.183	50.0	Averaged	
Bromochloromethane	50.0	47.6	0.188	0.100	4.87	50.0	Linear	
30 Dibromofluoromethane	0.374	0.433	0.433	0.100	-15.864	50.0	Averaged	
1,1,1-Trichloroethane	50.0	47.4	0.545	0.100	5.13	50.0	Linear	
1,1-Dichloropropene	0.422	0.376	0.376	0.100	10.8	50.0	Averaged	
1,2-Dichloroethane	0.395	0.409	0.409	0.100	-3.482	50.0	Averaged	
Carbon Tetrachloride	0.362	0.336	0.336	0.100	7.16	50.0	Averaged	
35 1,2-Dichloroethane-d4	0.436	0.522	0.522	0.100	-19.665	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24041309

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

RunID F042440.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID F042440.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-APR-2024 2317
ICAL Date(s) 23-APR-2024, 24-APR-2024
ICAL Times 18:09, 12:41
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Benzene	1.21	1.15	1.15	0.500	4.86	50.0	Averaged	
Trichloroethene	0.340	0.286	0.286	0.200	16.0	50.0	Averaged	
Bromodichloromethane	0.358	0.367	0.367	0.200	-2.519	50.0	Averaged	
Methyl Methacrylate	50.0	64.5	0.535	0.100	-28.902	50.0	Linear	
2-Chloroethylvinyl ether	100	82.0	0.006	0.001	18.0	50.0	Quadratic	
1,2-Dichloropropane	0.311	0.323	0.323	0.100	-3.750	50.0	Averaged	
2-Nitropropane	50.0	57.8	0.145	0.000	-15.642	50.0	Linear	
Dibromomethane	0.172	0.167	0.167	0.100	2.81	50.0	Averaged	
4-Methyl-2-Pentanone	0.386	0.467	0.467	0.100	-20.766	50.0	Averaged	
cis-1,3-Dichloropropene	0.390	0.383	0.383	0.200	1.88	50.0	Averaged	
48 Toluene-d8	1.30	1.49	1.49	0.100	-14.332	50.0	Averaged	
Ethyl Methacrylate	0.455	0.555	0.555	0.100	-21.936	50.0	Averaged	
Toluene	1.46	1.34	1.34	0.400	8.37	50.0	Averaged	
trans-1,3-Dichloropropene	50.0	43.4	0.304	0.100	13.2	50.0	Linear	
2-Hexanone	100	108	0.318	0.100	-7.979	50.0	Linear	
1,1,2-Trichloroethane	0.260	0.256	0.256	0.100	1.46	50.0	Averaged	
1,3-Dichloropropane	0.537	0.513	0.513	0.100	4.45	50.0	Averaged	
Dibromochloromethane	0.329	0.316	0.316	0.100	3.97	50.0	Averaged	
Tetrachloroethene	0.302	0.263	0.263	0.200	13.0	50.0	Averaged	
1,2-Dibromoethane	0.258	0.215	0.215	0.100	16.6	50.0	Averaged	
1-Chlorohexane	50.0	49.1	0.278	0.100	1.83	50.0	Linear	
Chlorobenzene	0.961	0.828	0.828	0.500	13.8	50.0	Averaged	
1,1,1,2-Tetrachloroethane	0.308	0.286	0.286	0.100	7.15	50.0	Averaged	
Ethylbenzene	0.482	0.429	0.429	0.100	11.0	50.0	Averaged	
m,p-Xylenes	0.606	0.538	0.538	0.100	11.1	50.0	Averaged	
o-Xylene	0.602	0.527	0.527	0.300	12.4	50.0	Averaged	
Styrene	0.984	0.909	0.909	0.300	7.55	50.0	Averaged	
Bromoform	50.0	38.7	0.216	0.100	22.6	50.0	Linear	
Isopropylbenzene	1.41	1.29	1.29	0.100	8.52	50.0	Averaged	
1,1,2,2-Tetrachloroethane	0.794	0.778	0.778	0.300	2.06	50.0	Averaged	
69 4-Bromofluorobenzene	50.0	56.4	0.508	0.100	-12.772	50.0	Linear	
1,2,3-Trichloropropane	0.800	0.774	0.774	0.100	3.21	50.0	Averaged	
trans-1,4-Dichloro-2-butene	50.0	47.2	0.074	0.050	5.67	50.0	Quadratic	
n-Propylbenzene	2.91	2.77	2.77	0.100	4.68	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24041309

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

RunID F042440.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID F042440.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-APR-2024 2317
ICAL Date(s) 23-APR-2024, 24-APR-2024
ICAL Times 18:09, 12:41
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
Bromobenzene	0.831	0.705	0.705	0.100	15.2	50.0	Averaged	
1,3,5-Trimethylbenzene	2.23	2.04	2.04	0.100	8.23	50.0	Averaged	
2-Chlorotoluene	1.90	1.75	1.75	0.100	7.68	50.0	Averaged	
4-Chlorotoluene	2.16	1.97	1.97	0.100	8.92	50.0	Averaged	
tert-Butylbenzene	1.81	1.67	1.67	0.100	7.44	50.0	Averaged	
1,2,4-Trimethylbenzene	2.24	2.03	2.03	0.100	9.13	50.0	Averaged	
sec-Butylbenzene	2.36	2.22	2.22	0.100	5.94	50.0	Averaged	
p-Isopropyltoluene	2.21	2.01	2.01	0.100	8.76	50.0	Averaged	
1,3-Dichlorobenzene	1.45	1.23	1.23	0.600	14.8	50.0	Averaged	
1,4-Dichlorobenzene	1.52	1.24	1.24	0.400	18.3	50.0	Averaged	
n-Butylbenzene	1.91	1.81	1.81	0.500	5.28	50.0	Averaged	
1,2-Dichlorobenzene	1.46	1.23	1.23	0.400	15.5	50.0	Averaged	
1,2-Dibromo-3-Chloropropane	50.0	41.3	0.102	0.050	17.5	50.0	Linear	
1,2,4-Trichlorobenzene	1.06	0.883	0.883	0.200	17.0	50.0	Averaged	
Hexachlorobutadiene	50.0	37.0	0.416	0.100	25.9	50.0	Linear	
Naphthalene	50.0	42.5	2.28	0.200	14.9	50.0	Linear	
1,2,3-Trichlorobenzene	0.973	0.816	0.816	0.100	16.2	50.0	Averaged	
1,4-Dioxane	1000	1021	0.006	0.001	-2.130	50.0	Linear	
Ethyl Acetate	0.449	0.546	0.546	0.100	-21.601	50.0	Averaged	
n-Hexane	50.0	43.7	0.360	0.100	12.6	50.0	Linear	
Freon TF	50.0	45.7	0.320	0.100	8.67	50.0	Linear	
Cyclohexane	50.0	51.3	0.566	0.100	-2.607	50.0	Linear	
Tetrahydrofuran	0.075	0.099	0.099	0.001	-31.341	50.0	Averaged	
Methyl Acetate	0.607	0.731	0.731	0.100	-20.463	50.0	Averaged	
Methylcyclohexane	50.0	57.5	0.550	0.100	-15.046	50.0	Linear	
Isopropyl alcohol	0.028	0.039	0.039	0.005	-36.303	50.0	Averaged	
4-Methyl-2-pentanol	1000	1025	0.126	0.005	-2.487	50.0	Linear	
Diisopropyl ether	1.34	1.80	1.80	0.100	-34.649	50.0	Averaged	
Dichlorofluoromethane	0.565	0.747	0.747	0.100	-32.194	50.0	Averaged	
1,2,3-Trimethylbenzene	2.21	2.29	2.29	0.100	-3.310	50.0	Averaged	
2-Methylnaphthalene	50.0	37.4	1.21	0.100	25.2	50.0	Linear	
1-Methylnaphthalene	50.0	38.9	1.08	0.100	22.1	50.0	Linear	
tert-Amyl methyl ether	1.14	1.40	1.40	0.005	-23.565	50.0	Averaged	
tert-Butyl ethyl ether	1.17	1.43	1.43	0.100	-22.151	50.0	Averaged	

Form 7 Continuing Calibration Verification (CCV)

Client Bhate Environmental Associates, Inc. **Workorder** HS24041309

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

RunID F042440.D

Volatiles by EPA Volatiles Organics by Method 8260C

Instrument ID voa10.i
Lab File ID F042440.D
Analysis Type WATER
Lab Sample ID VSTD050

Injection Date 24-APR-2024 2317
ICAL Date(s) 23-APR-2024, 24-APR-2024
ICAL Times 18:09, 12:41
Quant Type ISTD

Compound	RRF / RRF / Conc	RF50 / RF50	CCV RRF50	Min RRF	%D / %D / %DRIFT	Max %D / %D / %DRIFT	Curve CURVE TYPE	Q
1,3-Butadiene	50.0	55.4	0.463	0.100	-10.763	50.0	Linear	
n-Butyl acetate	0.633	0.736	0.736	0.100	-16.353	50.0	Averaged	
Benzyl Chloride	1.04	0.965	0.965	0.010	7.49	50.0	Averaged	
Ethylene oxide	0.611	0.731	0.731	0.010	-19.714	50.0	Averaged	
Epichlorohydrin	200	207	0.026	0.001	-3.537	50.0	Linear	
Isoprene	50.0	62.7	0.141	0.100	-25.484	50.0	Linear	
Allyl alcohol	1000	1033	0.009	0.004	-3.342	50.0	Linear	
Butyl acrylate	50.0	52.4	0.904	0.100	-4.780	50.0	Linear	
Acetaldehyde	200	237	0.066	0.001	-18.352	50.0	Linear	
Methyl Acrylate	50.0	59.5	0.450	0.100	-18.907	50.0	Linear	
Ethyl Acrylate	0.468	0.597	0.597	0.100	-27.638	50.0	Averaged	
2-Ethylhexyl Acrylate	50.0	51.0	0.925	0.100	-1.913	50.0	Quadratic	
2-Chloropropene	50.0	75.8	0.762	0.100	-51.689	50.0	Linear	
Butyl methacrylate	50.0	59.7	1.26	0.100	-19.349	50.0	Linear	
Ethanol	1000	1417	0.007	0.001	-41.665	50.0	Linear	
Dimethyl Disulfide	50.0	48.1	0.493	0.100	3.87	50.0	Quadratic	
94 1,2-Dichloroethylene (total	0.374	0.370	0.370	0.200	0.947	50.0	Averaged	
95 Xylenes (total)	0.529	0.472	0.472	0.100	10.7	50.0	Averaged	

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Form 8

Internal Standard Area and RT Summary

<textMethods>

Workorder

HS24041309

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

ALS Environmental–Houston Laboratory
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Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 8 - Internal Standard Area and RT Summary

Client Bhate Environmental Associates, Inc.

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder HS24041309

EPA SW8260

VOA10_465037		Pentafluorobenzene				1,4 Difluorobenzene				Chlorobenzene d5				1,4-Dichlorobenzene d4			
Sample ID	File ID	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
12-HOUR STD (CCV)	F042413.D	200931	#	4.69	#	260936	#	5.44	#	227447	#	8.08	#	115508	#	10.07	#
HS24041309-01	F042424.D	202684		4.7		276849		5.44		246082		8.08		131986		10.07	
HS24041309-02	F042420.D	203118		4.7		279990		5.44		242977		8.08		123226		10.07	
LCS-240424	F042438.D	198872		4.69		274803		5.44		241065		8.08		126387		10.07	
LCSD-240424	F042439.D	197245		4.7		272613		5.44		242273		8.08		128881		10.07	
VBLKW-240424	F042417.D	206002		4.69		282371		5.44		243643		8.08		130580		10.07	

AREA UPPER LIMIT = +100% of STD IS Area
AREA LOWER LIMIT = - 50% of STD IS Area
RT - Retention IS - Internal StandardTime

RT UPPER LIMIT = + 0.50 of STD IS RT
RT LOWER LIMIT = - 0.50 of 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 Volatiles Organics by Method 8260C

Workorder

HS24041309

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

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.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	**HS24041309**	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID
VOA10-465036

Run ID VOA10_465036 **Start Date** 04/24/24 **EndDate** 04/24/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
09:54	VSTD00.5	ICAL2	VSTD00.5	F042402.D	04/24/24	1
10:15	VSTD001	ICAL3	VSTD001	F042403.D	04/24/24	1
10:36	VSTD002	ICAL4	VSTD002	F042404.D	04/24/24	1
10:57	VSTD005	ICAL5	VSTD005	F042405.D	04/24/24	1
11:18	VSTD020	ICAL6	VSTD020	F042406.D	04/24/24	1
11:39	VSTD050	ICAL7	VSTD050	F042407.D	04/24/24	1
11:59	VSTD100	ICAL8	VSTD100	F042408.D	04/24/24	1
12:20	VSTD150	ICAL9	VSTD150	F042409.D	04/24/24	1
12:41	VSTD200	ICAL	VSTD200	F042410.D	04/24/24	1
13:44	VSTD050	ICV	VSTD050	F042413.D	04/24/24	1

Form 13 - Analysis Run Log

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	HS24041309	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA10-465037

Run ID VOA10_465037 **Start Date** 04/24/24 **EndDate** 04/24/24

Inj. Time	Client Sample ID	Type	Lab Sample ID	File ID	Analysis Date	DF
13:44	VSTD050	CCV	VSTD050	F042413.D	04/24/24	1
15:15	VBLKW-240424	MBLK	VBLKW-240424	F042417.D	04/24/24	1
15:36	HS24041533-01	SAMP	ZZZZZZZZZZ	F042418.D	04/24/24	1
15:57	HS24041533-12	SAMP	ZZZZZZZZZZ	F042419.D	04/24/24	1
16:18	HS24041309-02	SAMP	Trip Blank	F042420.D	04/24/24	1
16:39	HS24041538-01	SAMP	ZZZZZZZZZZ	F042421.D	04/24/24	1
17:00	HS24041538-07	SAMP	ZZZZZZZZZZ	F042422.D	04/24/24	1
17:21	HS24041538-12	SAMP	ZZZZZZZZZZ	F042423.D	04/24/24	1
17:42	HS24041309-01	SAMP	LH18/24-	F042424.D	04/24/24	1
18:03	HS24041604-01	SAMP	ZZZZZZZZZZ	F042425.D	04/24/24	1
18:23	HS24041538-05	SAMP	ZZZZZZZZZZ	F042426.D	04/24/24	1
18:44	HS24041538-06	SAMP	ZZZZZZZZZZ	F042427.D	04/24/24	1
19:05	HS24041533-02	SAMP	ZZZZZZZZZZ	F042428.D	04/24/24	1
19:26	HS24041533-03	SAMP	ZZZZZZZZZZ	F042429.D	04/24/24	1
19:47	HS24041533-04	SAMP	ZZZZZZZZZZ	F042430.D	04/24/24	1
20:08	HS24041533-05	SAMP	ZZZZZZZZZZ	F042431.D	04/24/24	1
20:29	HS24041533-06	SAMP	ZZZZZZZZZZ	F042432.D	04/24/24	1
21:11	HS24041533-08	SAMP	ZZZZZZZZZZ	F042434.D	04/24/24	1
21:32	HS24041533-09	SAMP	ZZZZZZZZZZ	F042435.D	04/24/24	1
21:53	HS24041533-10	SAMP	ZZZZZZZZZZ	F042436.D	04/24/24	1
22:14	HS24041533-11	SAMP	ZZZZZZZZZZ	F042437.D	04/24/24	1
22:35	LCS-240424	LCS	LCS-240424	F042438.D	04/24/24	1
22:56	LCSD-240424	LCSD	LCSD-240424	F042439.D	04/24/24	1
23:17	VSTD050	CCV_END	VSTD050	F042440.D	04/24/24	1

right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24041309

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

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\voa10.i\F240424.b\F042401.D Page 1
Report Date: 24-Apr-2024 11:56

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa10.i\F240424.b\F042401.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 24-APR-2024 09:33
Operator : TS Inst ID: voa10.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa10.i\F240424.b\bfb.m
Meth Date : 26-Dec-2023 06:28 donna.brou 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: NAHSTW7066

Concentration Formula: Amt * DF * Uf * Vf * Vi * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Uf	5.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	2.000	Injection Volume
Cpnd Variable		Local Compound Variable

					CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.092	9.096	(0.000)	95	44880			0.00- 100.00	98.03
9.092	9.096	(0.000)	50	8367			15.00- 40.00	18.64
9.092	9.096	(0.000)	75	22512			30.00- 60.00	50.16
9.092	9.096	(0.000)	96	3573			5.00- 9.00	7.96
9.092	9.096	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.092	9.096	(0.000)	174	45784			50.00- 0.00	102.01
9.092	9.096	(0.000)	175	3562			5.00- 9.00	7.78
9.092	9.096	(0.000)	176	45200			95.00- 101.00	98.72
9.092	9.096	(0.000)	177	2755			5.00- 9.00	6.10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.64
75	30.00 - 60.00% of mass 95	50.16
96	5.00 - 9.00% of mass 95	7.96
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	102.01
175	5.00 - 9.00% of mass 174	7.94 (7.78)
176	95.00 - 101.00% of mass 174	100.71 (98.72)
177	5.00 - 9.00% of mass 176	6.14 (6.10)

Data File: F042401.D
Spectrum: Scan 2267 (9.08)
Location of Maximum: 174.00
Number of points: 52

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	502	55.90	483	76.00	1831	116.90	216
37.10	2309	57.10	1182	77.00	268	118.80	185
38.10	2309	59.80	353	77.70	211	129.90	191
39.10	737	61.00	2216	79.00	900	140.80	354
39.90	155	62.00	2074	80.10	277	142.80	530
43.90	404	63.00	1558	80.90	850	171.70	204
45.00	387	67.20	158	82.00	188	174.00	45784
46.90	603	68.00	4266	87.00	2586	175.00	3562
47.90	469	69.10	4020	88.10	2031	176.00	45200
49.10	1849	70.00	337	92.10	1266	177.00	2755
50.00	8367	72.00	346	93.00	2002		
51.10	2843	73.00	1924	94.10	4330		
52.00	184	74.10	6982	95.10	44880		
54.90	174	75.10	22512	96.00	3573		

Data File: \\nahstws005\Target\chem\voa10.i\F240424.b\F042401.D Page 1

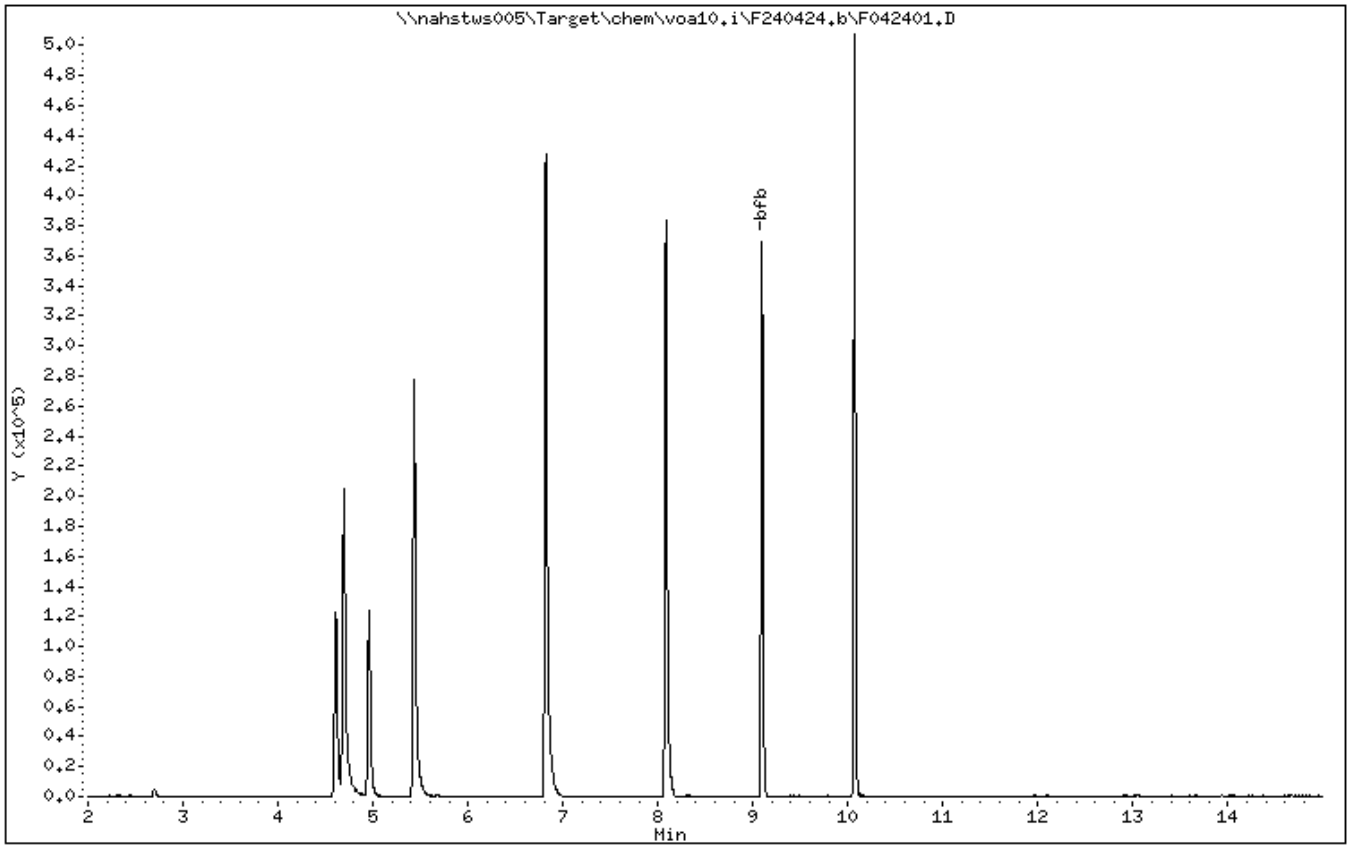
Date : 24-APR-2024 09:33

Client ID: BFB Instrument: voa10.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25



Data File: \\nahstws005\Target\chem\voa10.i\F240424.b\F042401.D Page 2

Date : 24-APR-2024 09:33

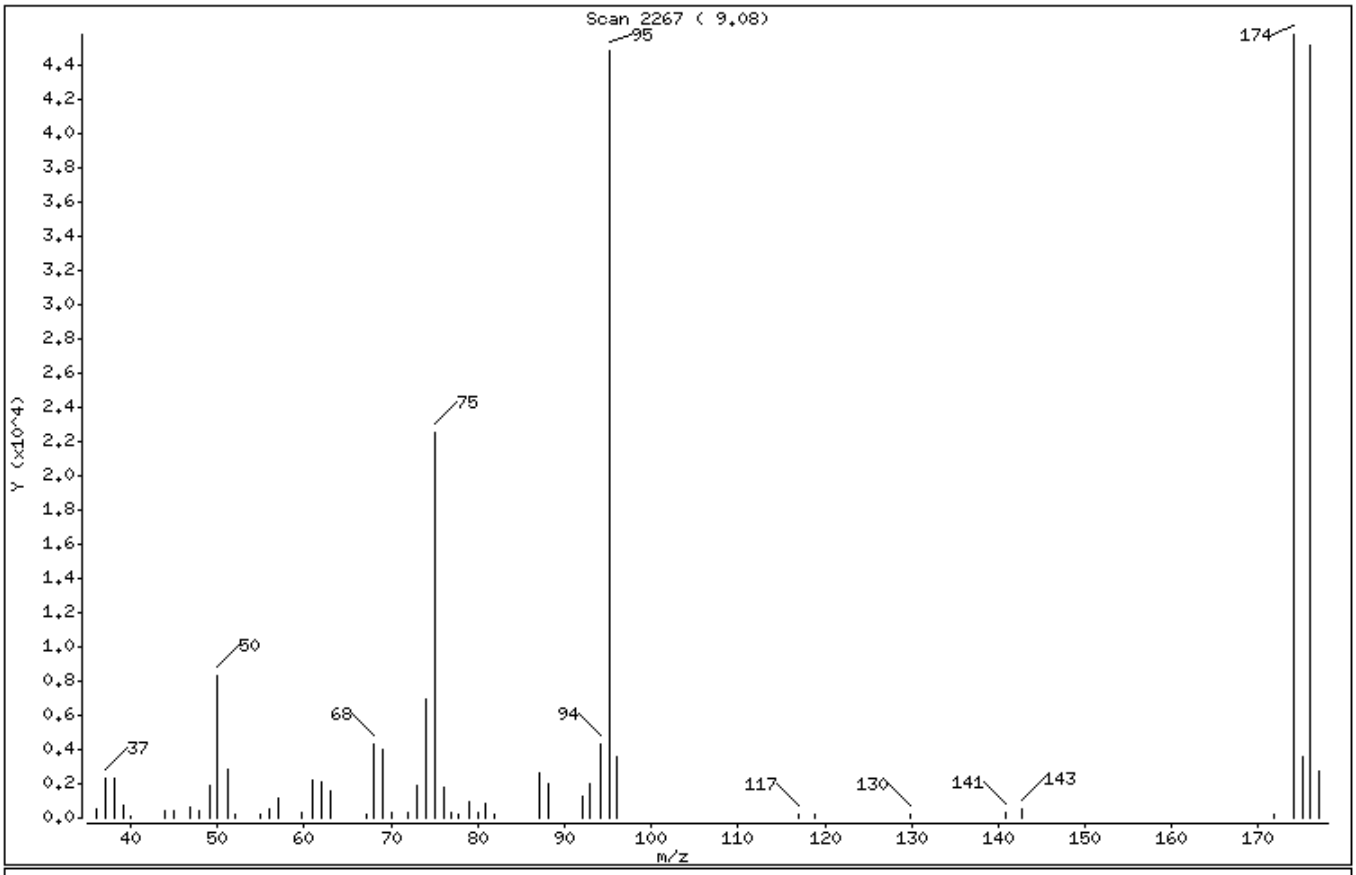
Client ID: BFB Instrument: voa10.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

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	18.64
75	30.00 - 60.00% of mass 95	50.16
96	5.00 - 9.00% of mass 95	7.96
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	102.01
175	5.00 - 9.00% of mass 174	7.94 (7.78)
176	95.00 - 101.00% of mass 174	100.71 (98.72)
177	5.00 - 9.00% of mass 176	6.14 (6.10)

Data File: \\nahstws005\Target\chem\voa10.i\F240424.b\F042401.D

Date : 24-APR-2024 09:33

Client ID: BFB Instrument: voa10.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25

Data File: F042401.D
Spectrum: Scan 2267 (9.08)
Location of Maximum: 174.00
Number of points: 52

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	502	55.90	483	76.00	1831	116.90	216
37.10	2309	57.10	1182	77.00	268	118.80	185
38.10	2309	59.80	353	77.70	211	129.90	191
39.10	737	61.00	2216	79.00	900	140.80	354
39.90	155	62.00	2074	80.10	277	142.80	530
43.90	404	63.00	1558	80.90	850	171.70	204
45.00	387	67.20	158	82.00	188	174.00	45784
46.90	603	68.00	4266	87.00	2586	175.00	3562
47.90	469	69.10	4020	88.10	2031	176.00	45200
49.10	1849	70.00	337	92.10	1266	177.00	2755
50.00	8367	72.00	346	93.00	2002		
51.10	2843	73.00	1924	94.10	4330		
52.00	184	74.10	6982	95.10	44880		
54.90	174	75.10	22512	96.00	3573		

Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042401.d
Inj Date : 24-APR-2024 09:33
InstruID : voa10.i
LabSampID : BFB

 NO MANUAL INTEGRATIONS

Data File: \\nahstws005\Target\chem\voa10.i\F240424.b\F042402.D Page 1
Report Date: 24-Apr-2024 13:49

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa10.i\F240424.b\F042402.D
Lab Smp Id: VSTD00.5 Client Smp ID: VSTD00.5
Inj Date : 24-APR-2024 09:54
Operator : TS Inst ID: voa10.i
Smp Info : VSTD00.5;VSTD00.5;1;2
Misc Info : V10;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa10.i\F240424.b\8260W.m
Meth Date : 24-Apr-2024 13:49 voa10.i Quant Type: ISTD
Cal Date : 24-APR-2024 12:41 Cal File: F042410.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.691	4.691	(1.000)	188863	50.0000	
2	Dichlorodifluoromethane	85	1.149	1.149	(0.245)	106	0.50000	1.02(aM)
3	Chloromethane	50	1.280	1.280	(0.273)	848	0.50000	0.52(aM)
4	Propionitrile	54	4.155	4.155	(0.886)	883	5.00000	3.99(aM)
5	Vinyl Chloride	62	1.355	1.355	(0.289)	481	0.50000	1.66(aM)
6	Bromomethane	94	1.580	1.580	(0.337)	185	0.50000	3.31(aM)
7	Chloroethane	64	1.658	1.658	(0.354)	269	0.50000	0.35(aM)
8	Trichlorofluoromethane	101	1.850	1.850	(0.394)	344	0.50000	0.87(aM)
10	Acetone	43	2.318	2.318	(0.494)	1125	1.00000	(aM)
11	1,1-Dichloroethene	96	2.258	2.258	(0.481)	311	0.50000	0.57(aM)
12	Isobutyl Alcohol	43	5.167	5.167	(1.101)	1758	10.0000	7.70(Ta)
13	Acetonitrile	39	2.592	2.592	(0.553)	568	5.00000	2.97(aM)
14	Allyl Chloride	41	2.558	2.558	(0.545)	1735	0.50000	0.43(aM)
15	Iodomethane	142	2.393	2.393	(0.510)	394	1.00000	7.22(M)
16	Acrylonitrile	53	2.929	2.929	(0.624)	368	1.00000	(aM)
17	Methylene Chloride	84	2.697	2.697	(0.575)	1812	0.50000	0.63(a)
18	Methyl tert-butyl ether	73	2.978	2.978	(0.635)	1605	0.50000	0.39(aM)
19	Carbon Disulfide	76	2.449	2.449	(0.522)	3159	1.00000	0.81(aM)
20	trans-1,2-Dichloroethene	96	2.970	2.970	(0.633)	466	0.50000	0.35(aM)
21	Vinyl Acetate	43	4.200	4.200	(0.895)	802	1.00000	0.95(TaM)

22 1,1-Dichloroethane	63	3.390	3.390 (0.723)	1006	0.50000	0.40(aM)
23 Chloroprene	53	3.503	3.503 (0.747)	484	0.50000	0.90(aM)

Data File: \\nahstws005\Target\chem\voa10.i\F240424.b\F042402.D Page 2
Report Date: 24-Apr-2024 13:49

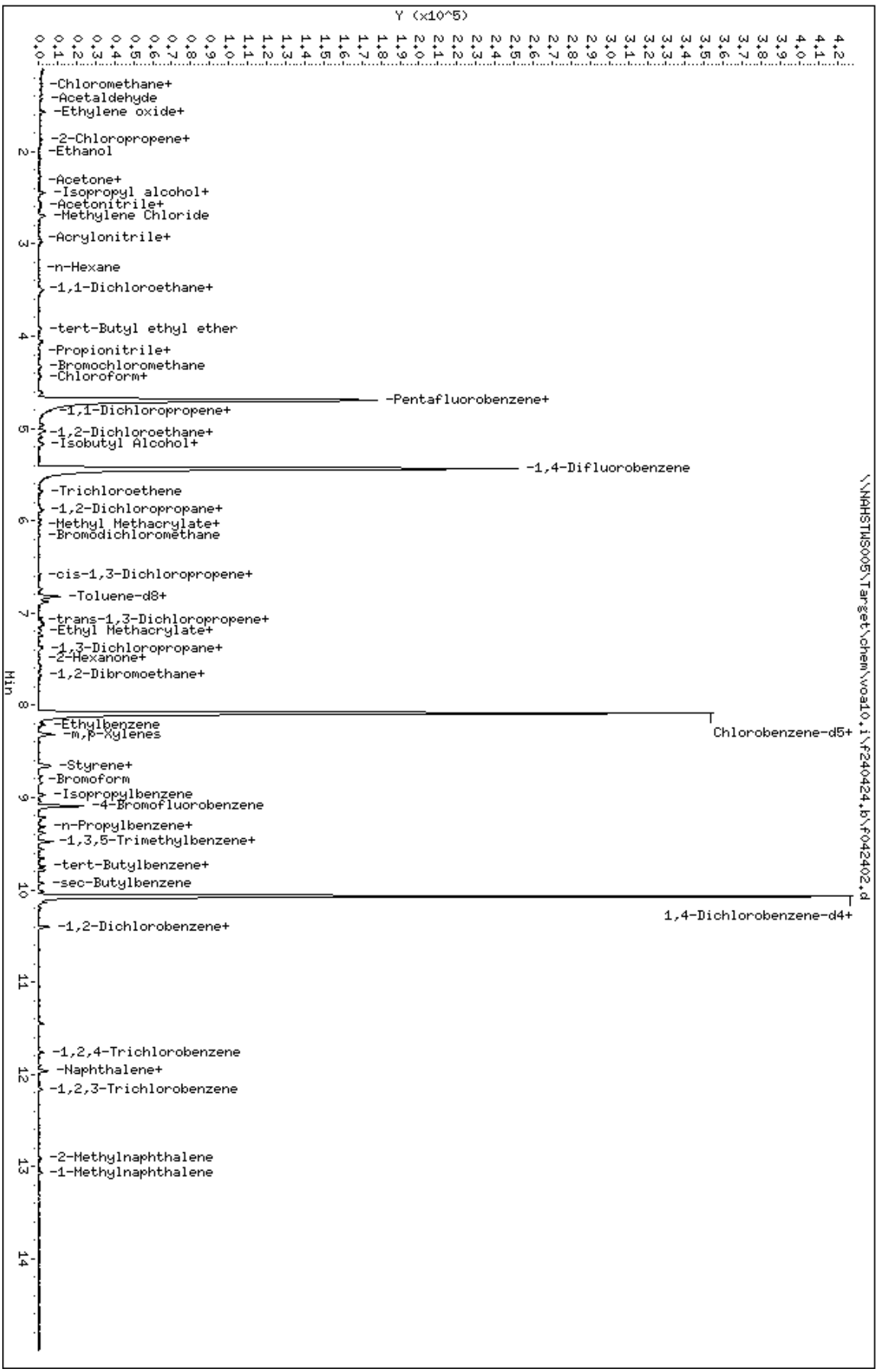
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	4.106	4.106	(0.875)	740	1.00000	1.08(aM)
	25 Methacrylonitrile	41	4.339	4.339	(0.925)	306	0.50000	0.06(aM)
	26 2,2-Dichloropropane	77	4.069	4.069	(0.867)	610	0.50000	1.32(aM)
	27 cis-1,2-Dichloroethene	96	4.065	4.065	(0.867)	769	0.50000	0.50(aM)
	28 Chloroform	83	4.436	4.436	(0.946)	1163	0.50000	0.47(a)
	29 Bromochloromethane	128	4.327	4.327	(0.922)	214	0.50000	(aM)
$	30 Dibromofluoromethane	113	4.612	4.612	(0.983)	1390	0.50000	0.98(a)
	31 1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	688	0.50000	0.89(a)
	32 1,1-Dichloropropene	75	4.807	4.807	(0.884)	1165	0.50000	0.56(aM)
	33 1,2-Dichloroethane	62	5.043	5.043	(0.928)	1061	0.50000	0.54(a)
	34 Carbon Tetrachloride	117	4.804	4.804	(0.883)	706	0.50000	0.39(aM)
$	35 1,2-Dichloroethane-d4	65	4.965	4.965	(1.058)	1680	0.50000	1.01(Ta)
*	36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	244491	50.0000	
	37 Benzene	78	5.021	5.021	(0.923)	2853	0.50000	0.48(Ta)
	38 Trichloroethene	130	5.685	5.685	(1.046)	825	0.50000	0.49(aM)
	39 Bromodichloromethane	83	6.153	6.153	(1.132)	747	0.50000	0.42(aM)
	40 Methyl Methacrylate	41	6.048	6.048	(1.289)	413	0.50000	0.10(aM)
	42 1,2-Dichloropropane	63	5.879	5.879	(1.081)	735	0.50000	0.48(aM)
	44 Dibromomethane	93	5.999	5.999	(1.103)	358	0.50000	0.42(aM)
	45 4-Methyl-2-Pentanone	43	6.742	6.742	(0.834)	1445	1.00000	0.22(aM)
	46 cis-1,3-Dichloropropene	75	6.584	6.584	(1.211)	794	0.50000	0.41(aM)
*	47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	210677	50.0000	
$	48 Toluene-d8	98	6.817	6.817	(0.843)	8834	0.50000	0.40(a)
	49 Ethyl Methacrylate	69	7.199	7.199	(1.324)	810	0.50000	0.36(a)
	51 trans-1,3-Dichloropropene	75	7.079	7.079	(1.302)	489	0.50000	2.46(aM)
	52 2-Hexanone	43	7.491	7.491	(0.927)	776	1.00000	0.69(Ta)
	53 1,1,2-Trichloroethane	83	7.236	7.236	(0.895)	513	0.50000	0.11(aM)
	54 1,3-Dichloropropane	76	7.390	7.390	(0.914)	1326	0.50000	0.14(aM)
	55 Dibromochloromethane	129	7.578	7.578	(0.937)	601	0.50000	0.10(aM)
	56 Tetrachloroethene	164	7.371	7.371	(0.912)	547	0.50000	0.10(aM)
	57 1,2-Dibromoethane	107	7.671	7.671	(0.949)	550	0.50000	0.12(aM)
	58 1-Chlorohexane	55	8.087	8.087	(1.487)	2182	0.50000	1.30(a)
	59 Chlorobenzene	112	8.110	8.110	(1.003)	2024	0.50000	0.12(aM)
	60 1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	601	0.50000	0.11(aM)
	61 Ethylbenzene	106	8.215	8.215	(1.016)	984	0.50000	0.12(aM)
	62 m,p-Xylenes	106	8.320	8.320	(1.029)	2446	1.00000	0.23(a)
	64 Styrene	104	8.668	8.668	(1.072)	1734	0.50000	0.10(a)
	66 Bromoform	173	8.811	8.811	(1.090)	355	0.50000	0.63(aM)
	67 Isopropylbenzene	105	8.972	8.972	(1.110)	2372	0.50000	0.09(a)
	68 1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	752	0.50000	0.43(aM)
$	69 4-Bromofluorobenzene	95	9.096	9.096	(1.125)	7105	0.50000	0.90(a)
*	70 1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	108576	50.0000	
	71 1,2,3-Trichloropropane	75	9.246	9.246	(0.918)	764	0.50000	0.44(aM)
	72 trans-1,4-Dichloro-2-butene	53	9.264	9.264	(1.146)	71	0.50000	0.36(aM)
	73 n-Propylbenzene	91	9.317	9.317	(0.925)	2792	0.50000	0.44(a)
	74 Bromobenzene	156	9.219	9.219	(0.916)	955	0.50000	0.52(a)
	75 1,3,5-Trimethylbenzene	105	9.474	9.474	(0.941)	2453	0.50000	0.50(a)
	76 2-Chlorotoluene	91	9.384	9.384	(0.932)	2095	0.50000	0.50(a)
	77 4-Chlorotoluene	91	9.478	9.478	(0.941)	2513	0.50000	0.53(a)
	78 tert-Butylbenzene	119	9.744	9.744	(0.968)	1655	0.50000	0.42(Ta)
	79 1,2,4-Trimethylbenzene	105	9.786	9.786	(0.972)	2421	0.50000	0.49(a)
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	2054	0.50000	0.40(aM)

82 p-Isopropyltoluene	119	10.059	10.059 (0.999)	1858	0.50000	0.38(aM)
83 1,3-Dichlorobenzene	146	10.014	10.014 (0.994)	1535	0.50000	0.48(a)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)
84	1,4-Dichlorobenzene	146	10.089	10.089	(1.002)	1862	0.50000	0.56(a)
87	n-Butylbenzene	91	10.400	10.400	(1.033)	1778	0.50000	0.42(aM)
88	1,2-Dichlorobenzene	146	10.400	10.400	(1.033)	1599	0.50000	0.50(a)
90	1,2,4-Trichlorobenzene	180	11.761	11.761	(1.168)	979	0.50000	0.42(aM)
91	Hexachlorobutadiene	225	11.907	11.907	(1.182)	341	0.50000	0.91(aM)
92	Naphthalene	128	11.960	11.960	(1.188)	4684	0.50000	0.04(a)
93	1,2,3-Trichlorobenzene	180	12.166	12.166	(1.208)	882	0.50000	0.41(aM)
135	1,4-Dioxane	88	6.041	6.041	(1.288)	78	10.0000	21.99(aM)
130	Ethyl Acetate	43	4.200	4.200	(0.895)	802	0.50000	0.47(aM)
136	n-Hexane	57	3.267	3.267	(0.696)	37	0.50000	2.05(TaM)
138	Freon TF	101	2.284	2.284	(0.487)	43	0.50000	1.06(aM)
141	Cyclohexane	56	4.691	4.691	(1.000)	2688	0.50000	1.04(a)
142	Tetrahydrofuran	42	4.402	4.402	(0.938)	80	1.00000	0.28(aM)
146	Methyl Acetate	43	2.611	2.611	(0.557)	1145	0.50000	0.49(aM)
147	Methylcyclohexane	55	5.861	5.861	(1.078)	485	0.50000	0.50(aM)
149	Isopropyl alcohol	45	2.449	2.449	(0.522)	800	10.0000	7.48(T)
151	4-Methyl-2-pentanol	45	7.116	7.116	(1.309)	3181	10.0000	46.69(M)
156	Diisopropyl ether	45	3.507	3.507	(0.748)	2028	0.50000	0.40(aM)
158	Dichlorofluoromethane	67	1.805	1.805	(0.385)	748	0.50000	0.35(aM)
166	1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	2134	0.50000	0.44(a)
160	2-Methylnaphthalene	142	12.912	12.912	(1.282)	795	0.50000	2.45(a)
180	1-Methylnaphthalene	142	13.062	13.062	(1.297)	802	0.50000	1.79(a)
174	tert-Amyl methyl ether	73	5.171	5.171	(1.102)	1562	0.50000	0.36(Ta)
175	tert-Butyl ethyl ether	59	3.923	3.923	(0.836)	1680	0.50000	0.38(Ta)
140	1,3-Butadiene	54	1.377	1.377	(0.294)	344	0.50000	1.41(aM)
189	n-Butyl acetate	43	7.611	7.611	(0.942)	1091	0.50000	0.10(aM)
86	Benzyl Chloride	91	10.400	10.400	(1.287)	1778	0.50000	0.10(aM)
178	Ethylene oxide	44	1.569	1.569	(0.334)	2536	1.00000	1.09(a)
162	Butyl acrylate	55	8.646	8.646	(1.070)	763	0.50000	0.72(aM)
194	Acetaldehyde	44	1.430	1.430	(0.305)	497	2.00000	(aM)
131	Methyl Acrylate	55	4.219	4.219	(0.899)	409	0.50000	0.51(aM)
133	Ethyl Acrylate	55	5.823	5.823	(1.241)	639	0.50000	0.36(aM)
203	2-Ethylhexyl Acrylate	55	11.956	11.956	(1.187)	316	0.50000	2.32(aAM)
204	2-Chloropropene	41	1.876	1.876	(0.400)	638	0.50000	(a)
163	Butyl methacrylate	41	9.561	9.561	(0.949)	629	0.50000	1.35(Ta)
167	Ethanol	45	2.003	2.003	(0.427)	83	10.0000	(aM)
200	Dimethyl Disulfide	94	6.637	6.637	(0.821)	284	0.50000	0.56(aM)
M 94	1,2-Dichloroethylene (total)	96				1235	1.00000	(a)
M 95	Xylenes (total)	106				3709	1.50000	(a)

QC Flag Legend

T - Target compound detected outside RT window.
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.



Data File: \\NAHSTWS005\Target\chem\voa10.i\f240424.b\f042402.d
Date : 24-APR-2024 09:54
Client ID: VSTD00.5
Sample Info: VSTD00.5;VSTD00.5;1;2
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: TS
Column diameter: 0.18

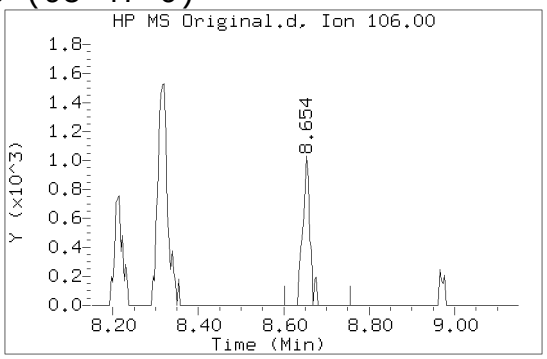
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

o-Xylene (95-47-6)

Reason Code:

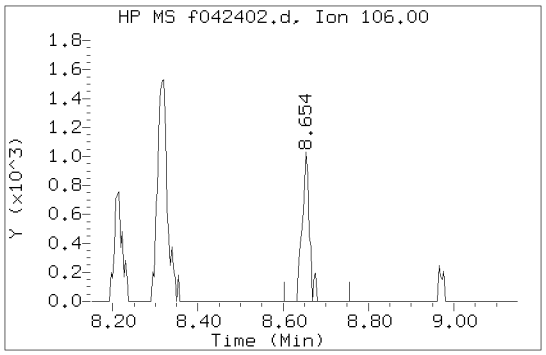
BEFORE

MASS
106
AREA
1263
HEIGHT
1033
24-Apr-2024
13:49
firat
tastan



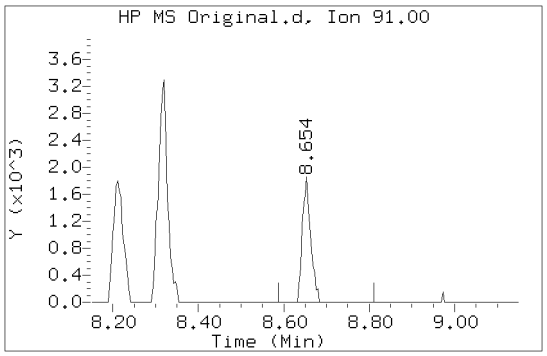
AFTER

MASS
106
AREA
1263
HEIGHT
1033
24-Apr-2024
13:49
firat
tastan



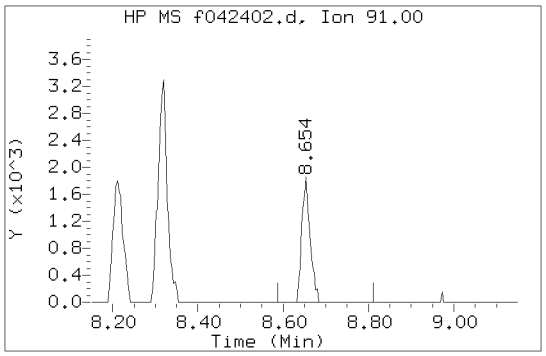
BEFORE

MASS
91
AREA
2581
HEIGHT
1854
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
91
AREA
2581
HEIGHT
1854
24-Apr-2024
13:49
firat
tastan

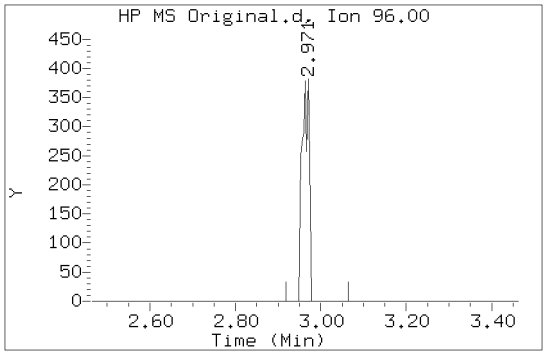


trans-1,2-Dichloroethene (156-60-5)

Reason Code:

BEFORE

MASS
96
AREA
466
HEIGHT
382
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
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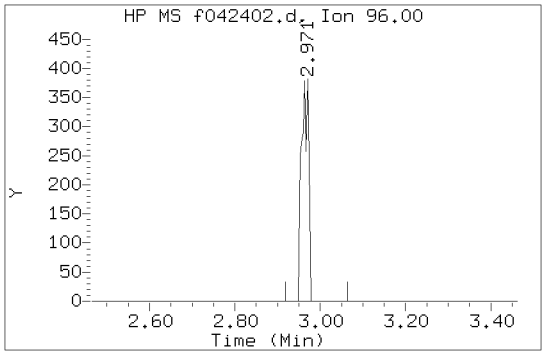
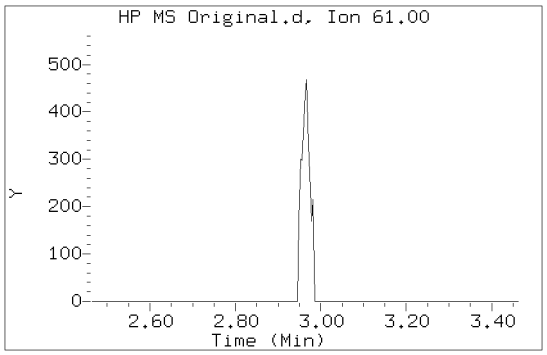
AREA
466
HEIGHT
382
24-Apr-2024
13:49
firat
tastan



BEFORE

MASS
61
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
61
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
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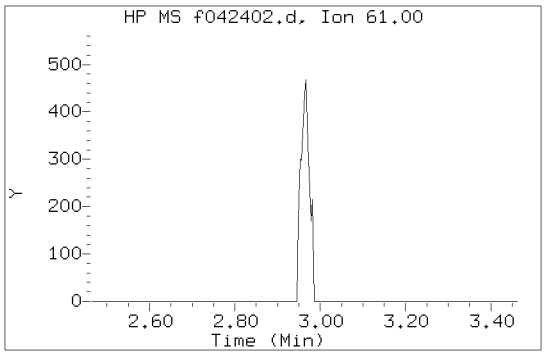

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Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

trans-1,2-Dichloroethene (156-60-5)

Reason Code:

BEFORE

MASS
98
AREA
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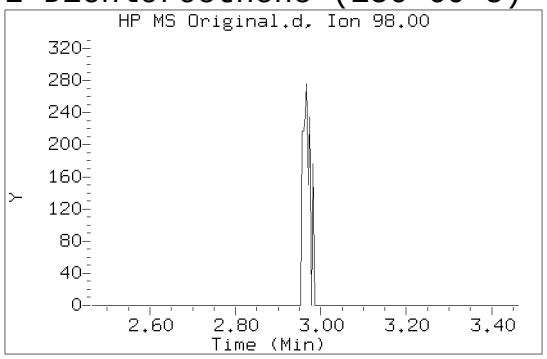
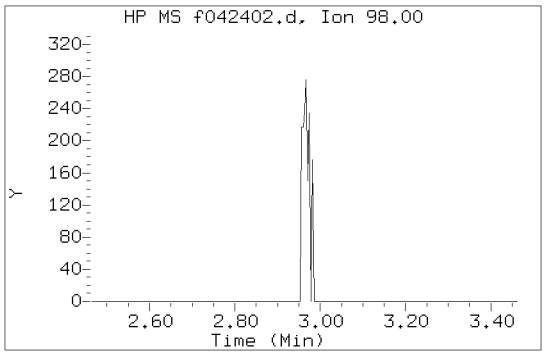
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
98
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

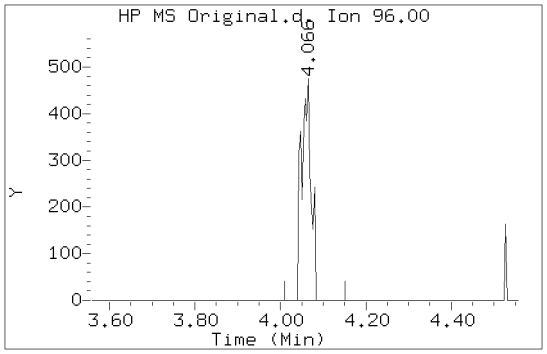


cis-1,2-Dichloroethene (156-59-2)

Reason Code:

BEFORE

MASS
96
AREA
769
HEIGHT
475
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
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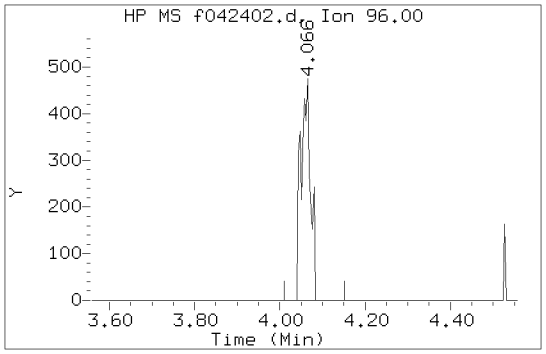
AREA
769
HEIGHT
475
24-Apr-2024
13:49
firat
tastan



BEFORE

MASS
61
AREA
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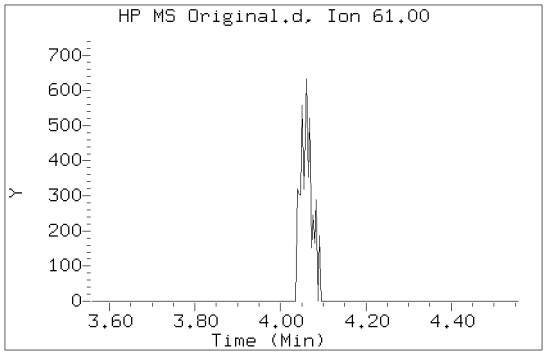
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

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HEIGHT
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24-Apr-2024
13:49
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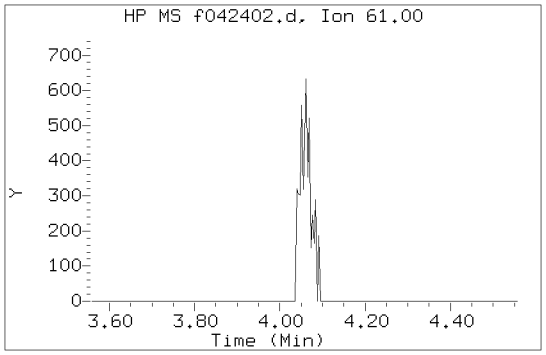

BEFORE

MASS
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AREA
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HEIGHT
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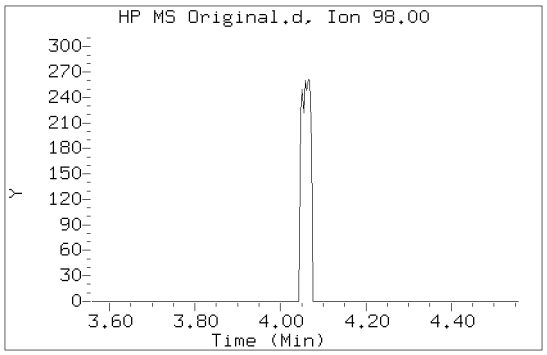
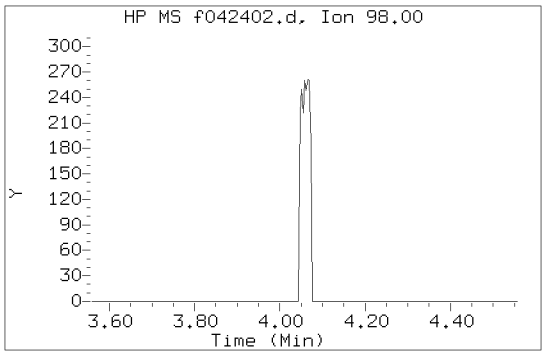
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
98
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



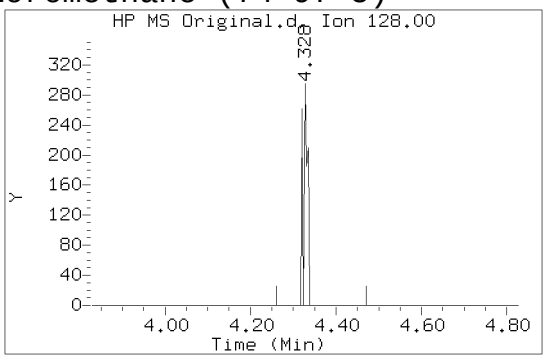
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Bromochloromethane (74-97-5)

Reason Code:

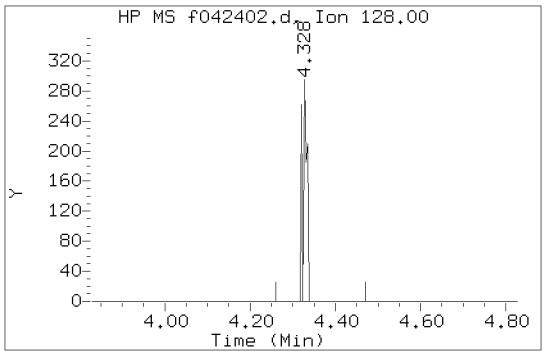
BEFORE

MASS
128
AREA
214
HEIGHT
295
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
128
AREA
214
HEIGHT
295
24-Apr-2024
13:49
firat
tastan



BEFORE

MASS
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AREA
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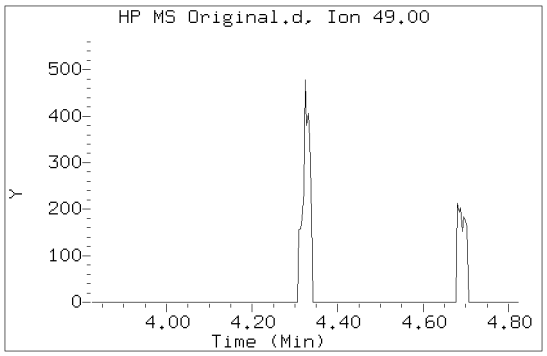
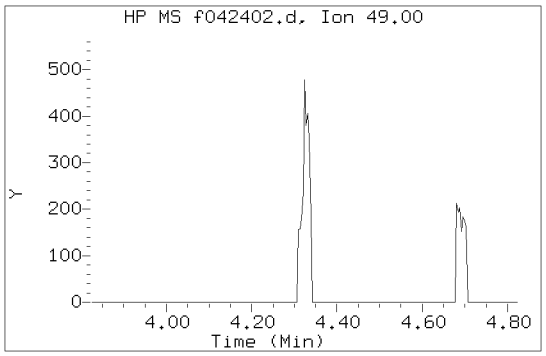
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



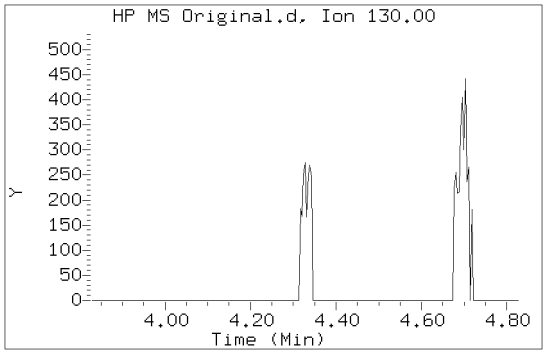
AFTER

MASS
49
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



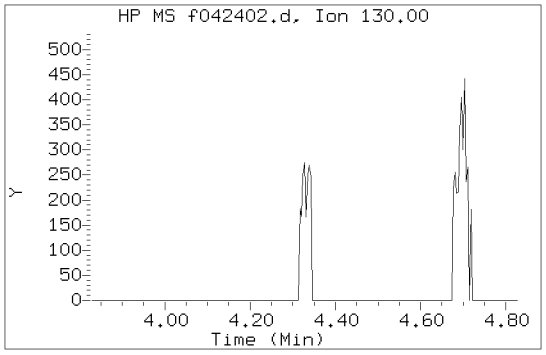
BEFORE

MASS
130
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
130
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

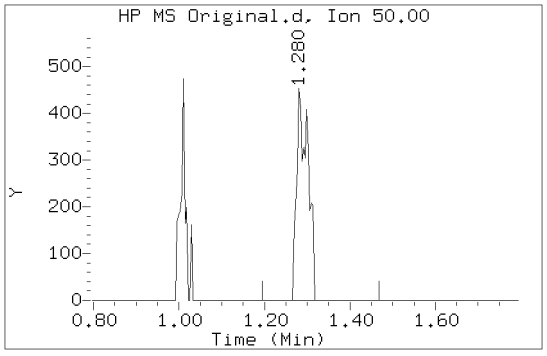


Chloromethane (74-87-3)

Reason Code:

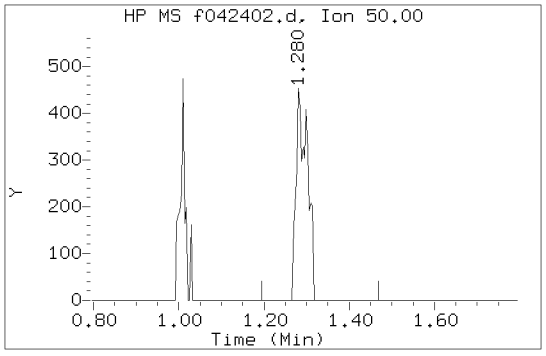
BEFORE

MASS
50
AREA
848
HEIGHT
453
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
50
AREA
848
HEIGHT
453
24-Apr-2024
13:49
firat
tastan



Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Chloromethane (74-87-3)

Reason Code:

BEFORE

MASS
52
AREA
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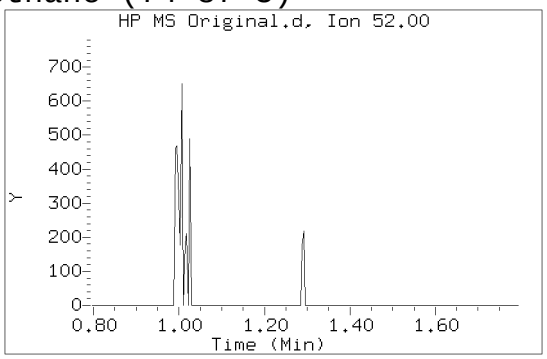
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
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AREA
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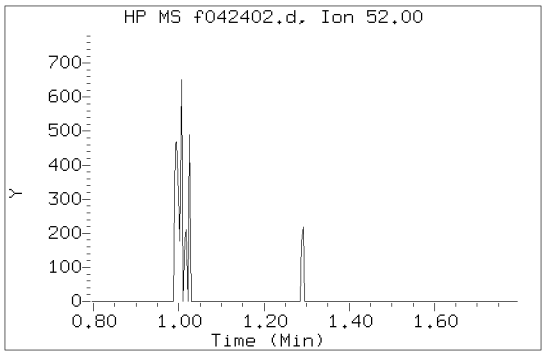
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

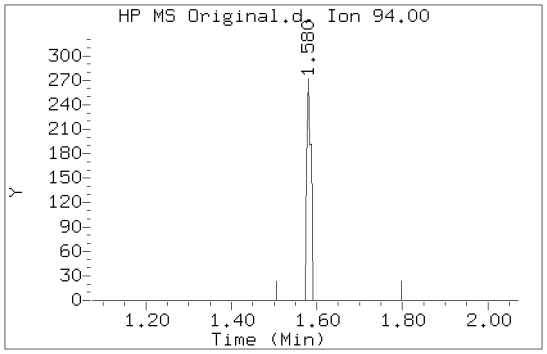


Bromomethane (74-83-9)

Reason Code:

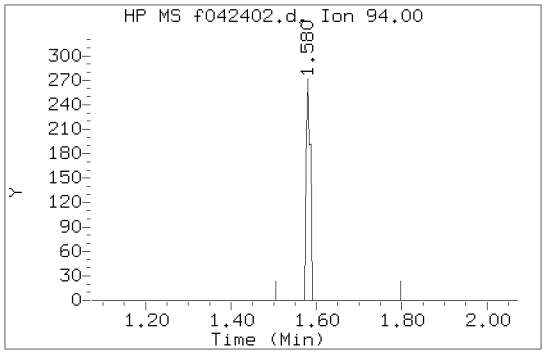
BEFORE

MASS
94
AREA
185
HEIGHT
272
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
94
AREA
185
HEIGHT
272
24-Apr-2024
13:49
firat
tastan



BEFORE

MASS
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AREA
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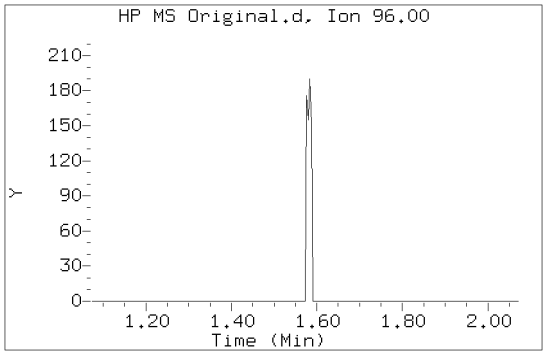
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
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AREA
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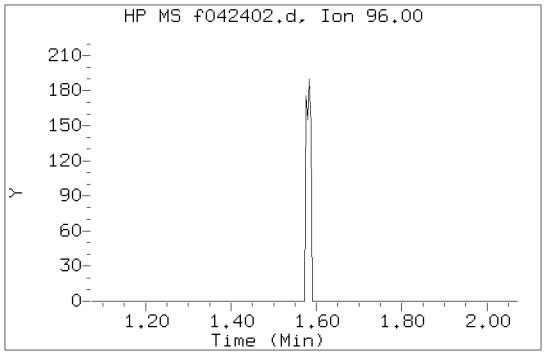
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

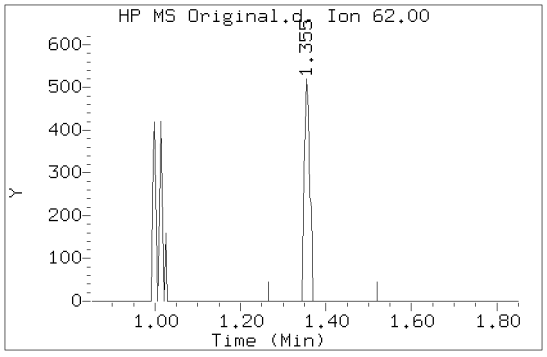


Vinyl Chloride (75-01-4)

Reason Code:

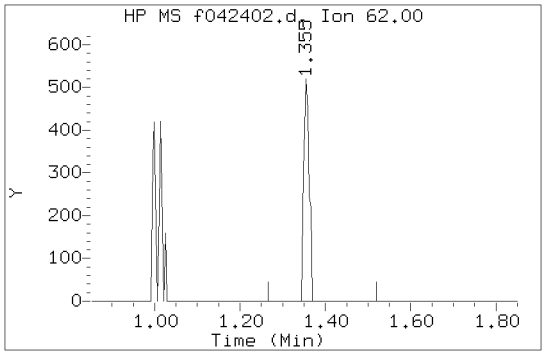
BEFORE

MASS
62
AREA
481
HEIGHT
520
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
62
AREA
481
HEIGHT
520
24-Apr-2024
13:49
firat
tastan



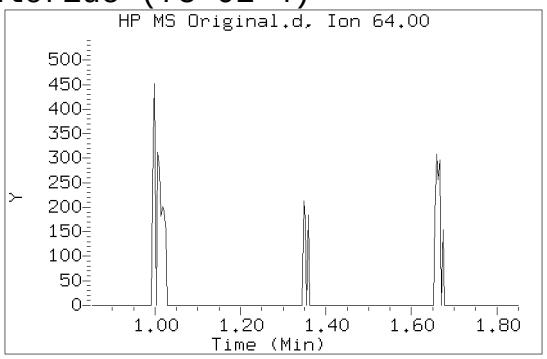
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Vinyl Chloride (75-01-4)

Reason Code:

BEFORE

MASS
64
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
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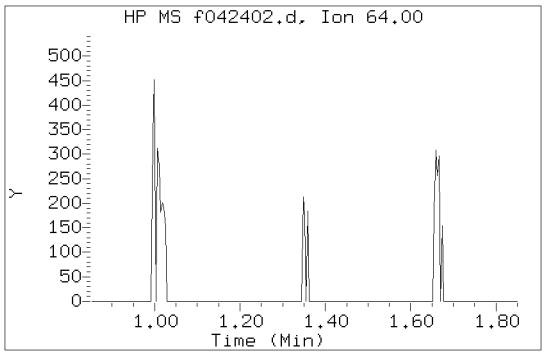
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

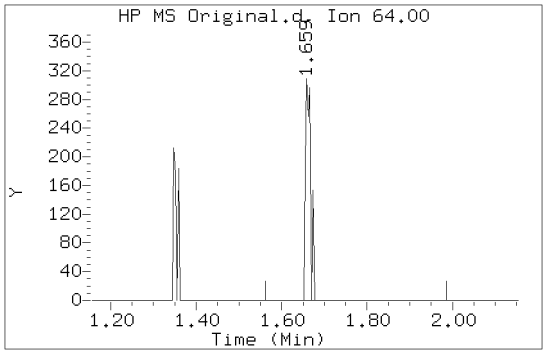


Chloroethane (75-00-3)

Reason Code:

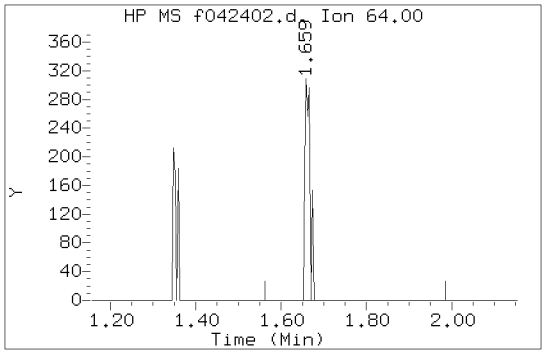
BEFORE

MASS
64
AREA
269
HEIGHT
309
24-Apr-2024
13:49
firat
tastan



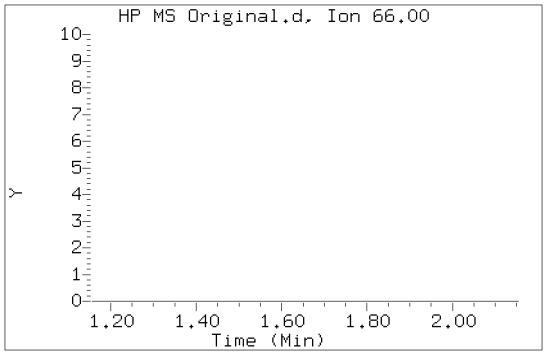
AFTER

MASS
64
AREA
269
HEIGHT
309
24-Apr-2024
13:49
firat
tastan



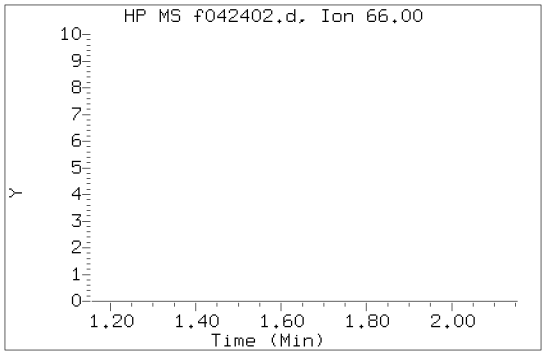
BEFORE

MASS
66
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
66
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

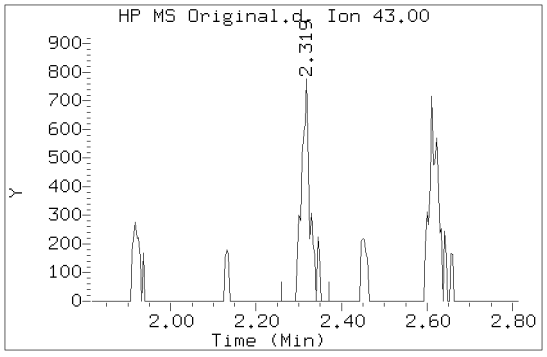


Acetone (67-64-1)

Reason Code:

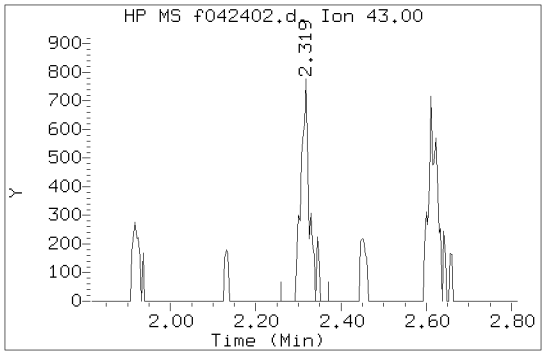
BEFORE

MASS
43
AREA
1125
HEIGHT
777
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
43
AREA
1125
HEIGHT
777
24-Apr-2024
13:49
firat
tastan



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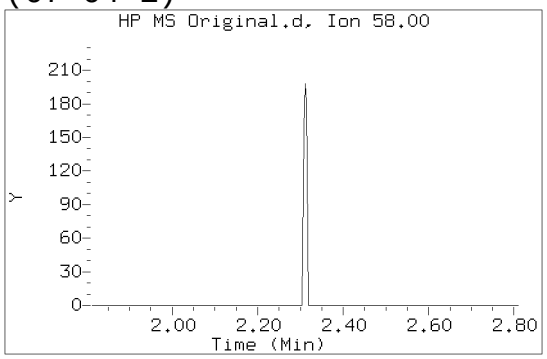
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Acetone (67-64-1)

Reason Code:

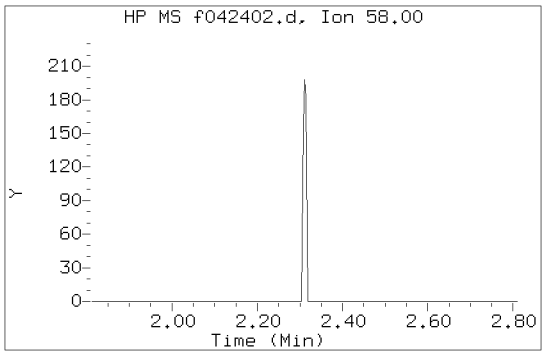
BEFORE

MASS
58
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
58
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

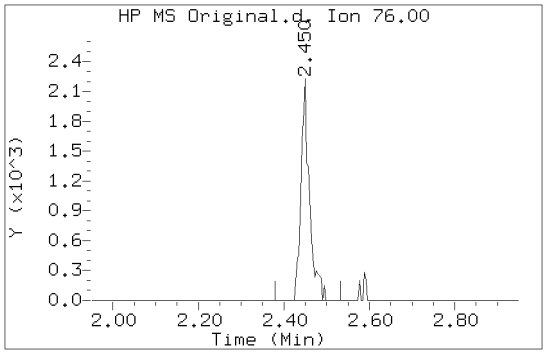


Carbon Disulfide (75-15-0)

Reason Code:

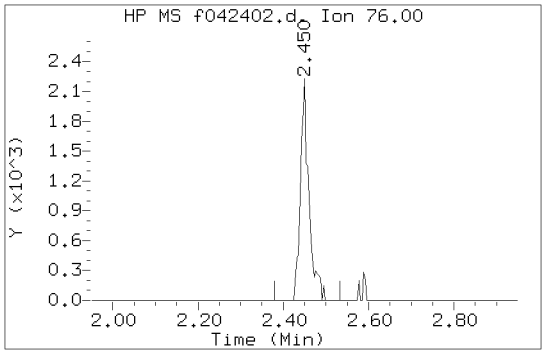
BEFORE

MASS
76
AREA
3159
HEIGHT
2228
24-Apr-2024
13:49
firat
tastan



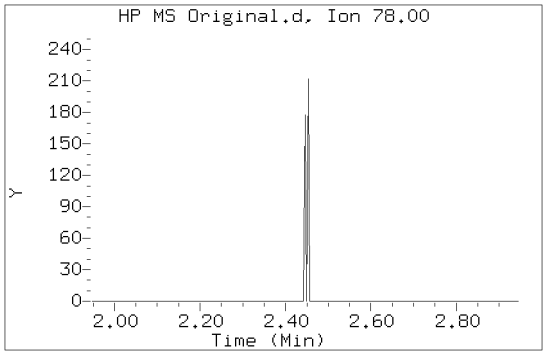
AFTER

MASS
76
AREA
3159
HEIGHT
2228
24-Apr-2024
13:49
firat
tastan



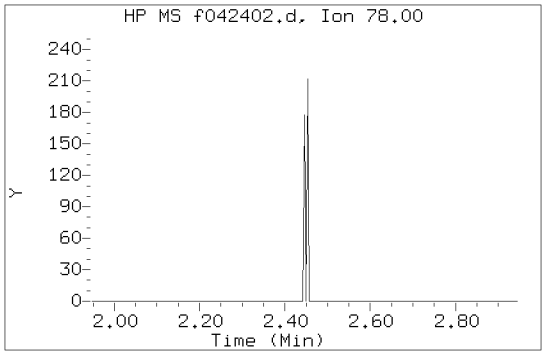
BEFORE

MASS
78
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
78
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

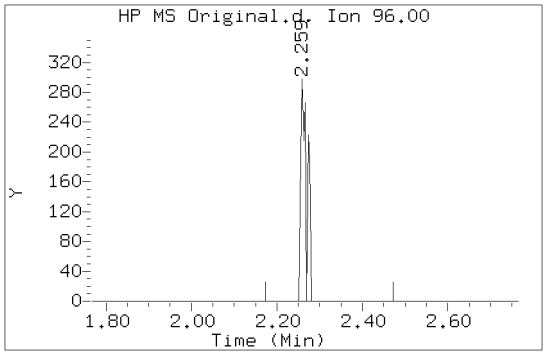


1,1-Dichloroethene (75-35-4)

Reason Code:

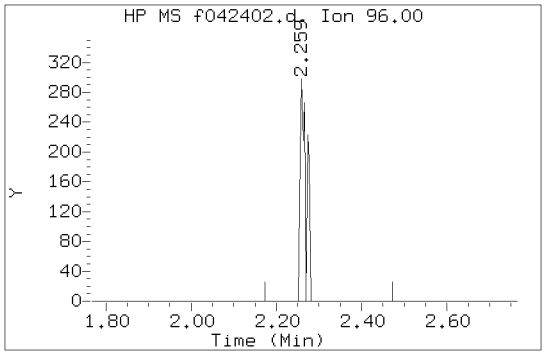
BEFORE

MASS
96
AREA
311
HEIGHT
298
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
96
AREA
311
HEIGHT
298
24-Apr-2024
13:49
firat
tastan



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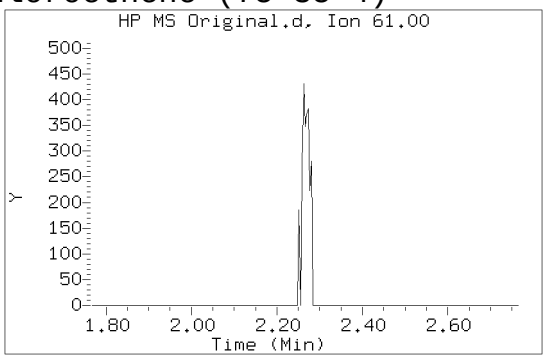
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

1,1-Dichloroethene (75-35-4)

Reason Code:

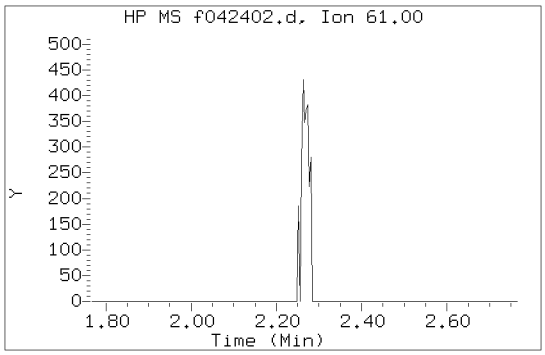
BEFORE

MASS
61
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



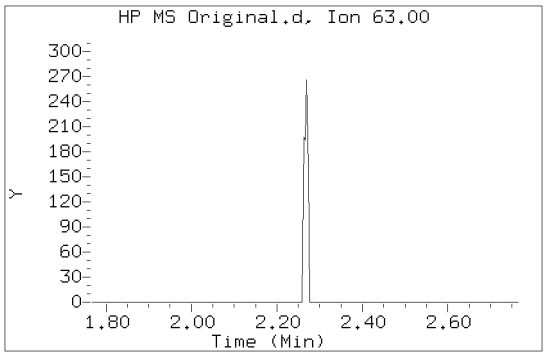
AFTER

MASS
61
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



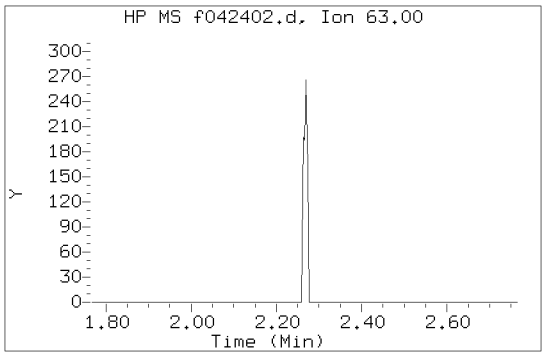
BEFORE

MASS
63
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
63
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

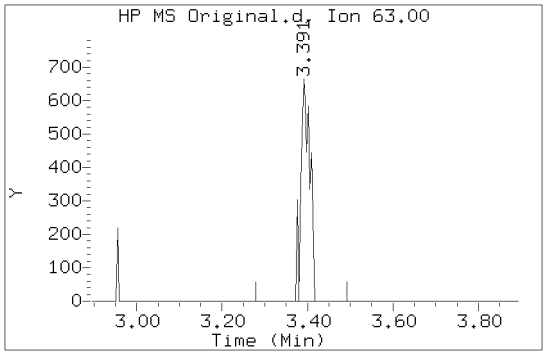


1,1-Dichloroethane (75-34-3)

Reason Code:

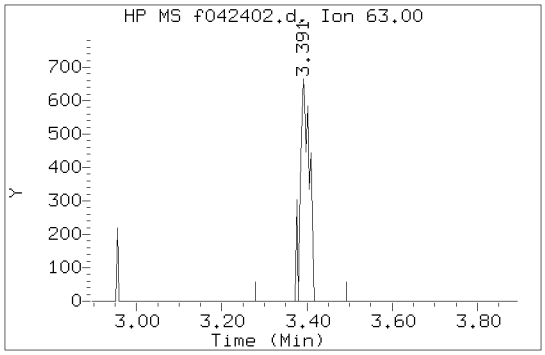
BEFORE

MASS
63
AREA
1006
HEIGHT
665
24-Apr-2024
13:49
firat
tastan



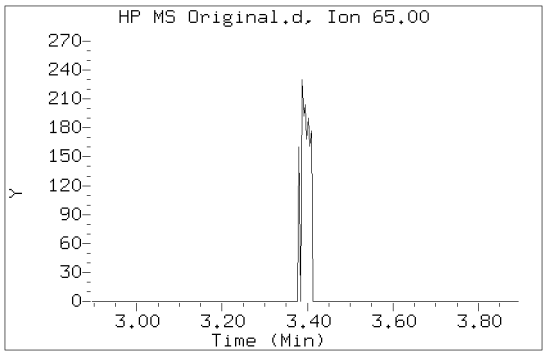
AFTER

MASS
63
AREA
1006
HEIGHT
665
24-Apr-2024
13:49
firat
tastan



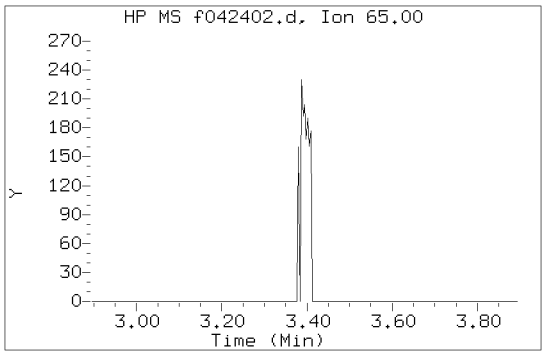
BEFORE

MASS
65
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

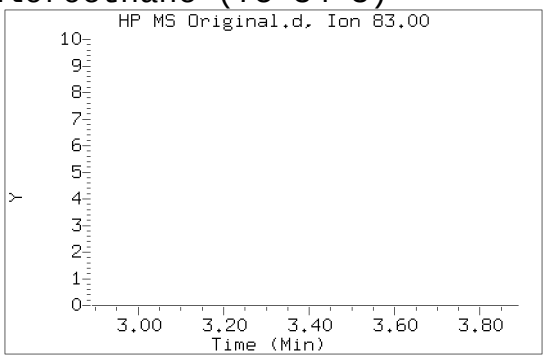
MASS
65
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

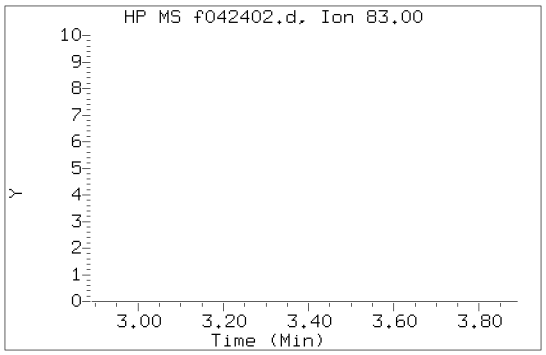
1,1-Dichloroethane (75-34-3)

BEFORE
MASS
83
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



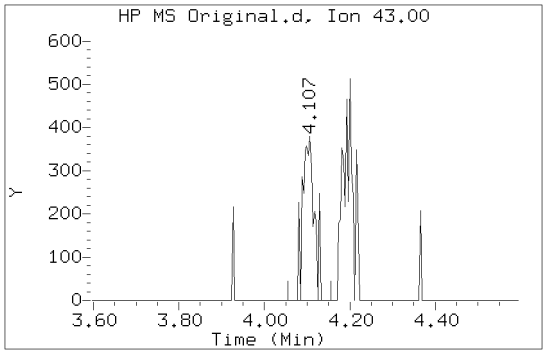
Reason Code:

AFTER
MASS
83
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



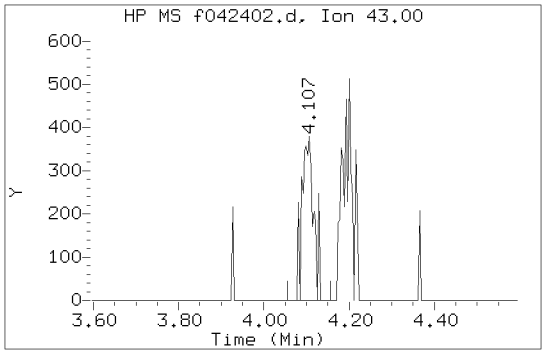
2-Butanone (78-93-3)

BEFORE
MASS
43
AREA
740
HEIGHT
380
24-Apr-2024
13:49
firat
tastan

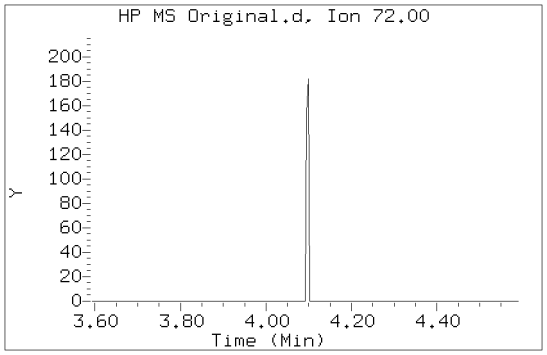


Reason Code:

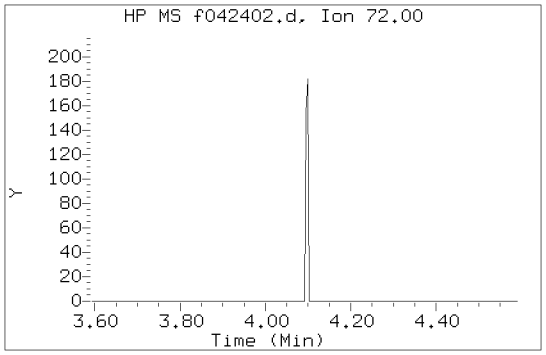
AFTER
MASS
43
AREA
740
HEIGHT
380
24-Apr-2024
13:49
firat
tastan



BEFORE
MASS
72
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

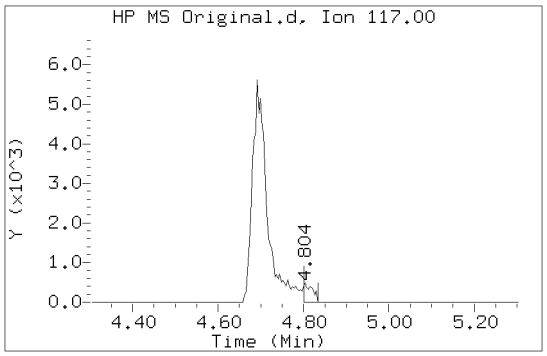


AFTER
MASS
72
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



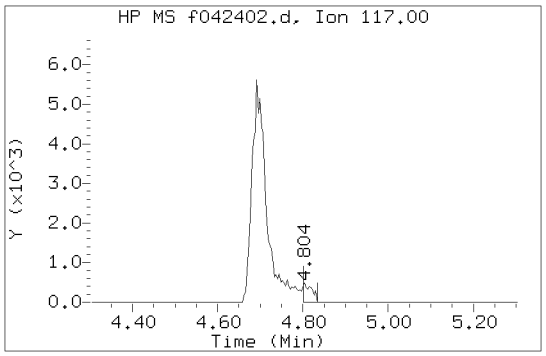
Carbon Tetrachloride (56-23-5)

BEFORE
MASS
117
AREA
706
HEIGHT
494
24-Apr-2024
13:49
firat
tastan



Reason Code:

AFTER
MASS
117
AREA
706
HEIGHT
494
24-Apr-2024
13:49
firat
tastan



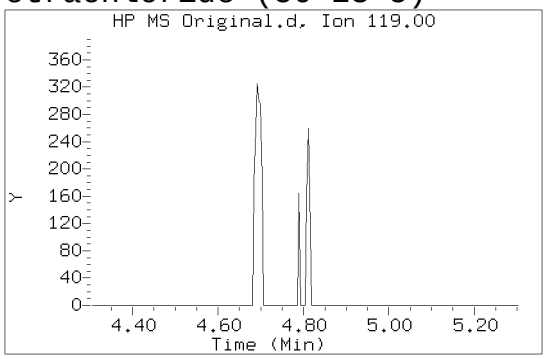
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Carbon Tetrachloride (56-23-5)

Reason Code:

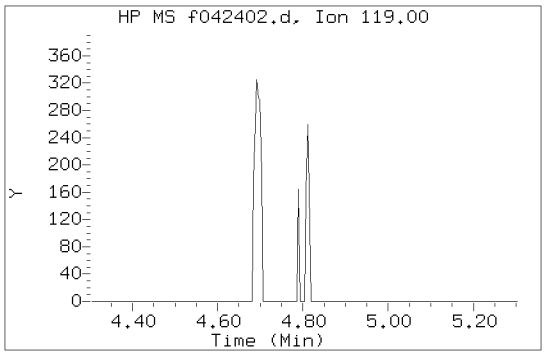
BEFORE

MASS
119
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
119
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

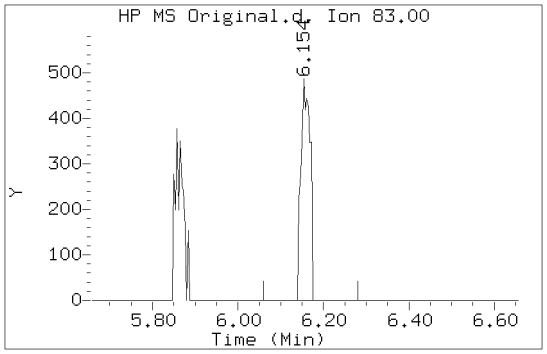


Bromodichloromethane (75-27-4)

Reason Code:

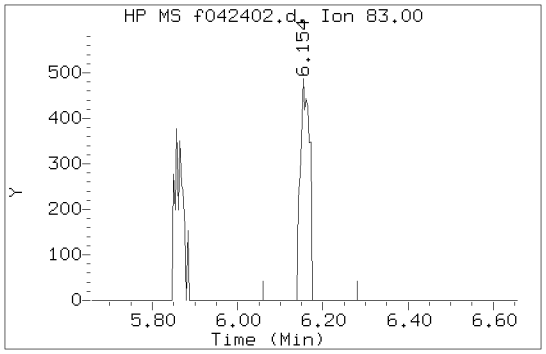
BEFORE

MASS
83
AREA
747
HEIGHT
487
24-Apr-2024
13:49
firat
tastan



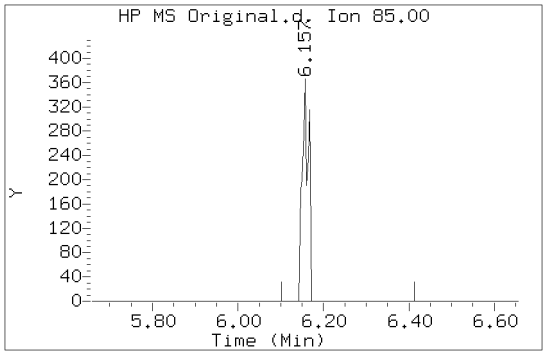
AFTER

MASS
83
AREA
747
HEIGHT
487
24-Apr-2024
13:49
firat
tastan



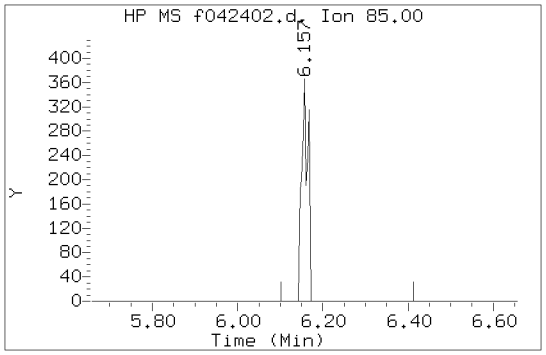
BEFORE

MASS
85
AREA
397
HEIGHT
366
24-Apr-2024
13:49
firat
tastan



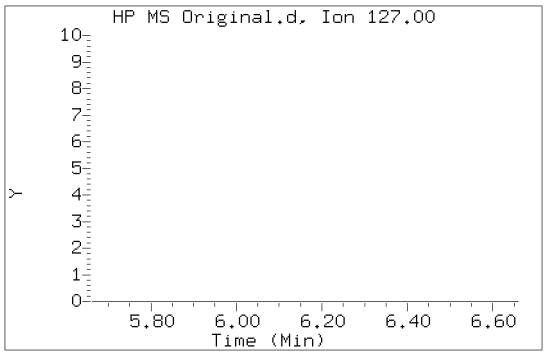
AFTER

MASS
85
AREA
397
HEIGHT
366
24-Apr-2024
13:49
firat
tastan



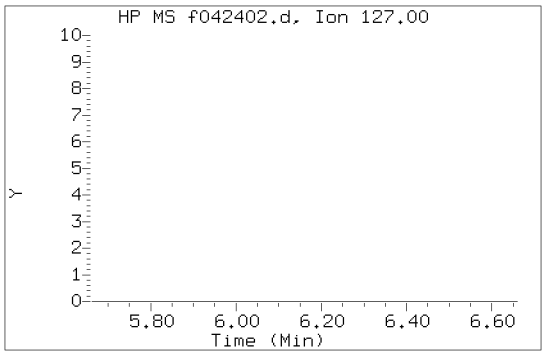
BEFORE

MASS
127
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
127
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



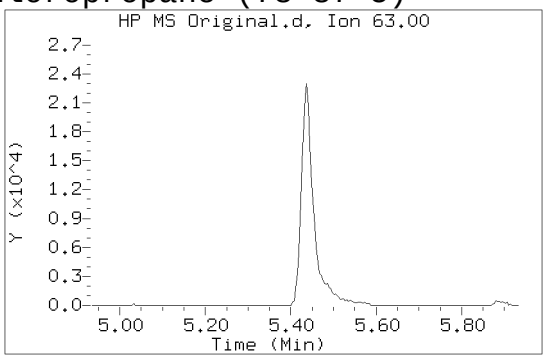
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

1,2-Dichloropropane (78-87-5)

Reason Code:

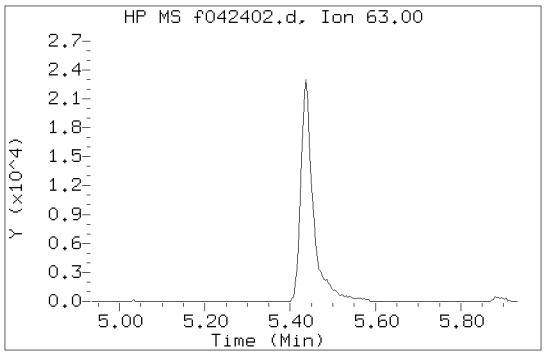
BEFORE

MASS
63
AREA
735
HEIGHT
468
24-Apr-2024
13:49
firat
tastan



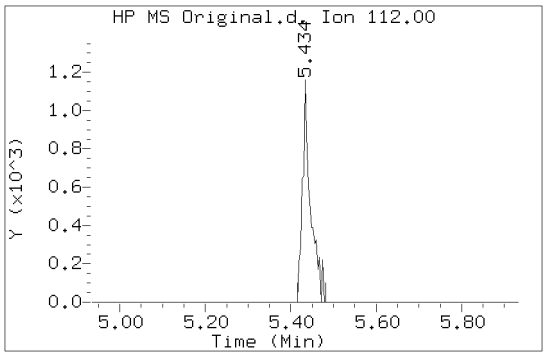
AFTER

MASS
63
AREA
735
HEIGHT
468
24-Apr-2024
13:49
firat
tastan



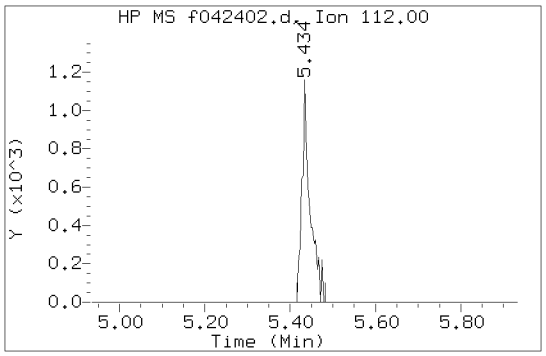
BEFORE

MASS
112
AREA
1573
HEIGHT
1160
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
112
AREA
1573
HEIGHT
1160
24-Apr-2024
13:49
firat
tastan

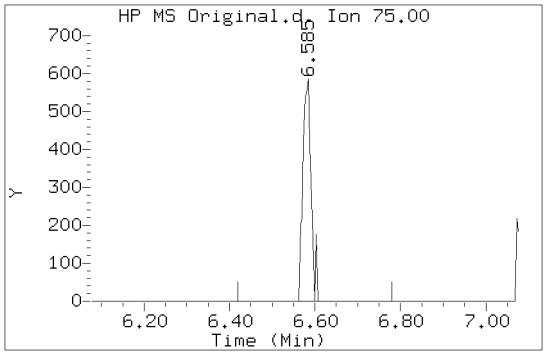


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

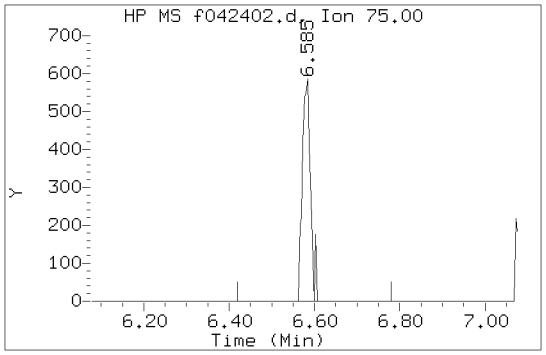
BEFORE

MASS
75
AREA
794
HEIGHT
586
24-Apr-2024
13:49
firat
tastan



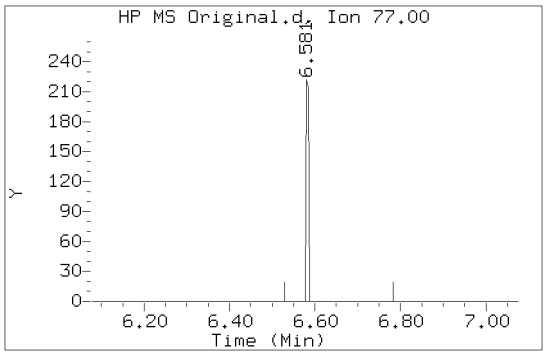
AFTER

MASS
75
AREA
794
HEIGHT
586
24-Apr-2024
13:49
firat
tastan



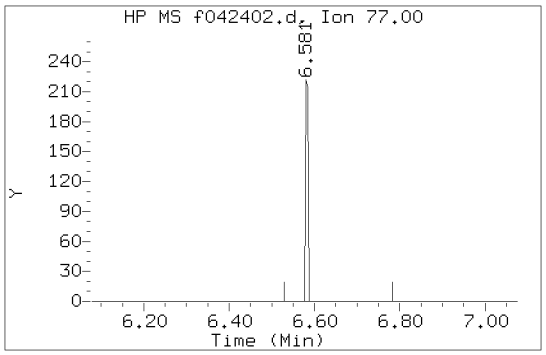
BEFORE

MASS
77
AREA
98
HEIGHT
222
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
77
AREA
98
HEIGHT
222
24-Apr-2024
13:49
firat
tastan



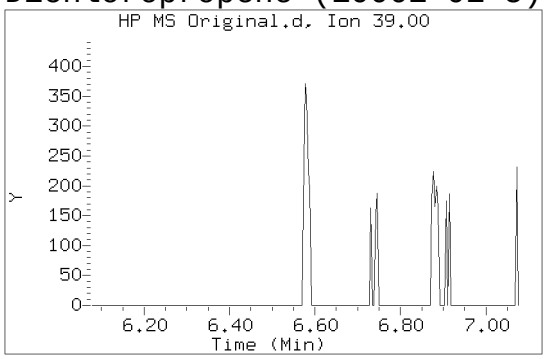
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

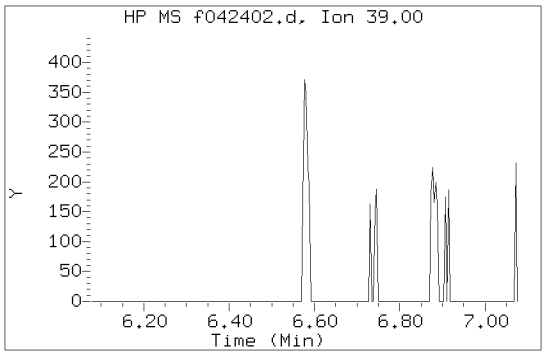
BEFORE

MASS
39
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

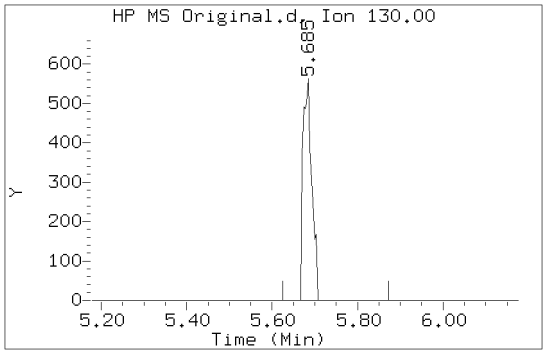


Trichloroethene (79-01-6)

Reason Code:

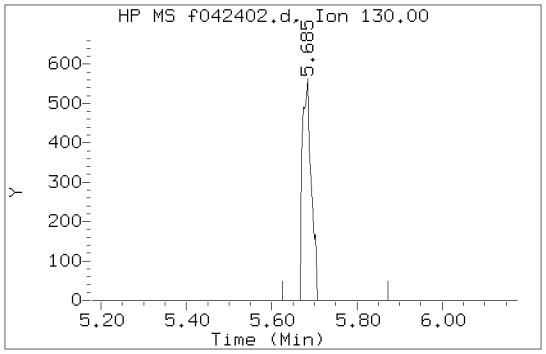
BEFORE

MASS
130
AREA
825
HEIGHT
563
24-Apr-2024
13:49
firat
tastan



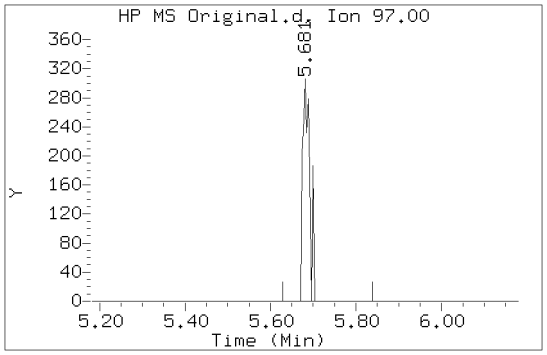
AFTER

MASS
130
AREA
825
HEIGHT
563
24-Apr-2024
13:49
firat
tastan



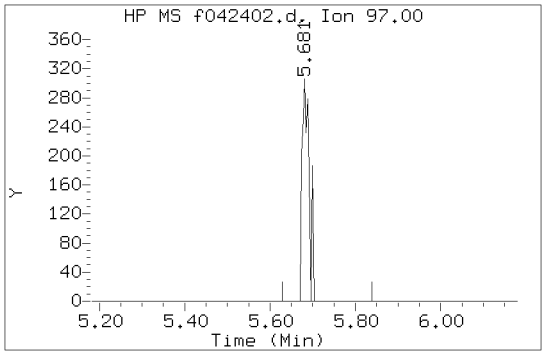
BEFORE

MASS
97
AREA
366
HEIGHT
306
24-Apr-2024
13:49
firat
tastan



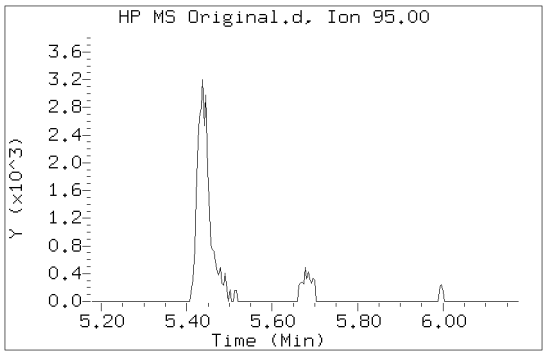
AFTER

MASS
97
AREA
366
HEIGHT
306
24-Apr-2024
13:49
firat
tastan



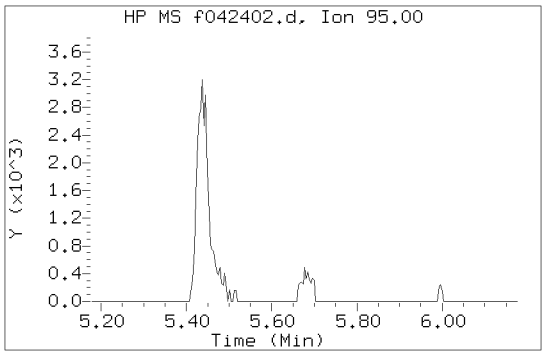
BEFORE

MASS
95
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
95
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



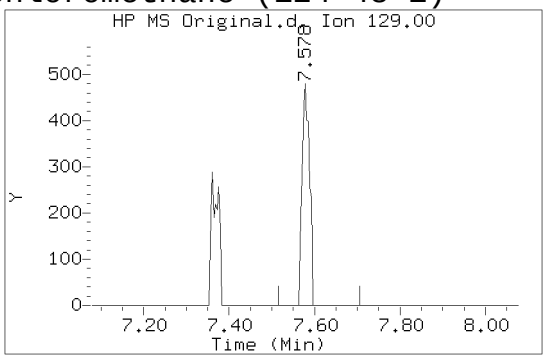
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Dibromochloromethane (124-48-1)

Reason Code:

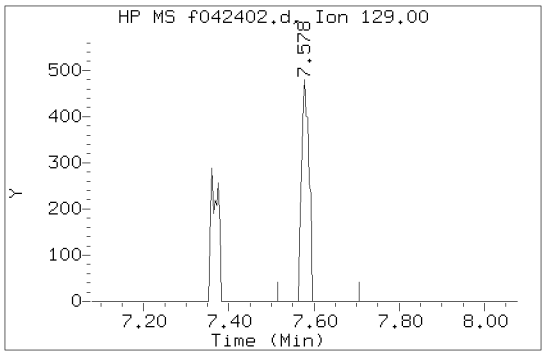
BEFORE

MASS
129
AREA
601
HEIGHT
480
24-Apr-2024
13:49
firat
tastan



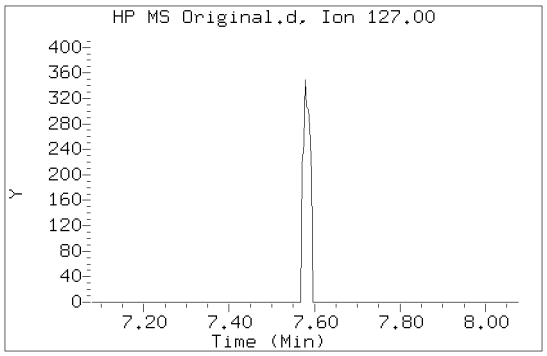
AFTER

MASS
129
AREA
601
HEIGHT
480
24-Apr-2024
13:49
firat
tastan



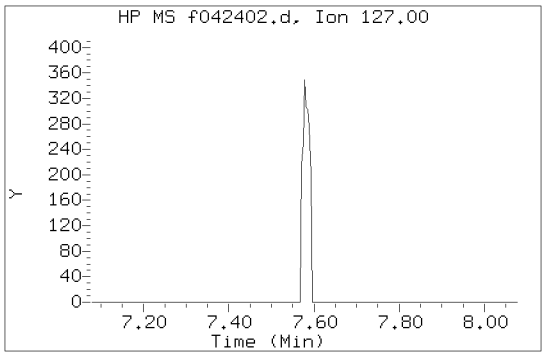
BEFORE

MASS
127
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
127
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

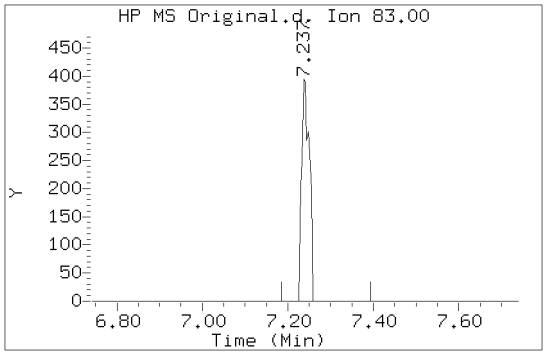


1,1,2-Trichloroethane (79-00-5)

Reason Code:

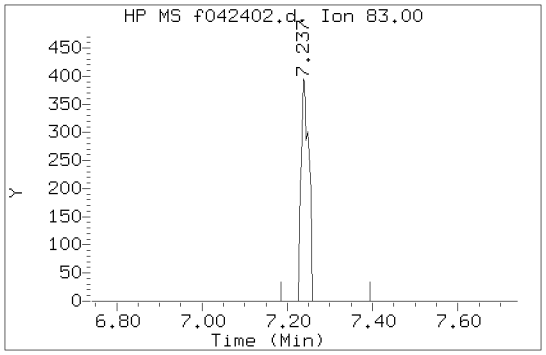
BEFORE

MASS
83
AREA
513
HEIGHT
395
24-Apr-2024
13:49
firat
tastan



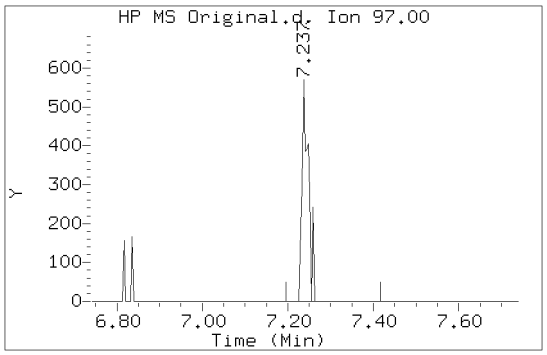
AFTER

MASS
83
AREA
513
HEIGHT
395
24-Apr-2024
13:49
firat
tastan



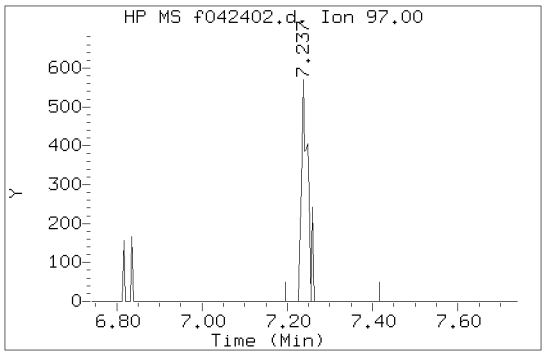
BEFORE

MASS
97
AREA
618
HEIGHT
570
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
97
AREA
618
HEIGHT
570
24-Apr-2024
13:49
firat
tastan



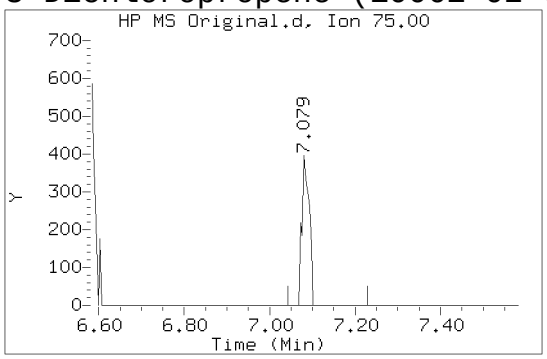
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

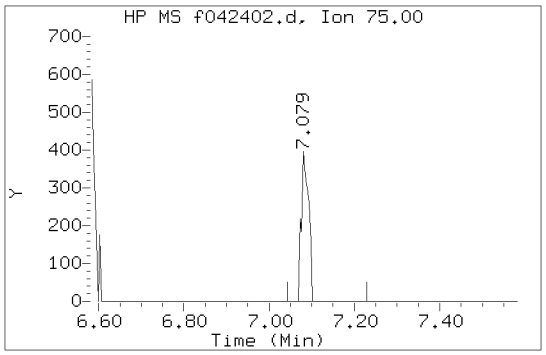
BEFORE

MASS
75
AREA
489
HEIGHT
396
24-Apr-2024
13:49
firat
tastan



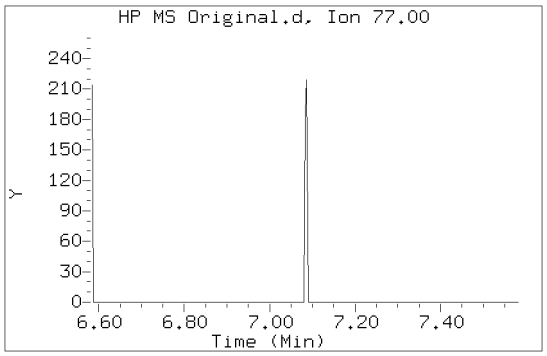
AFTER

MASS
75
AREA
489
HEIGHT
396
24-Apr-2024
13:49
firat
tastan



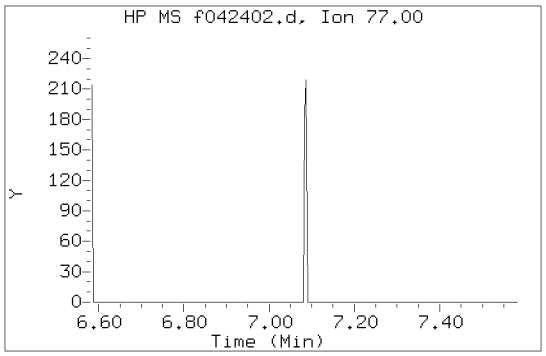
BEFORE

MASS
77
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



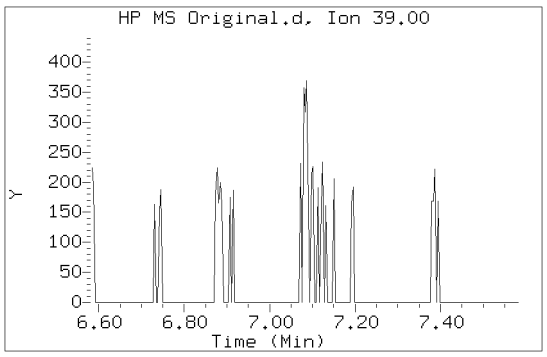
AFTER

MASS
77
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



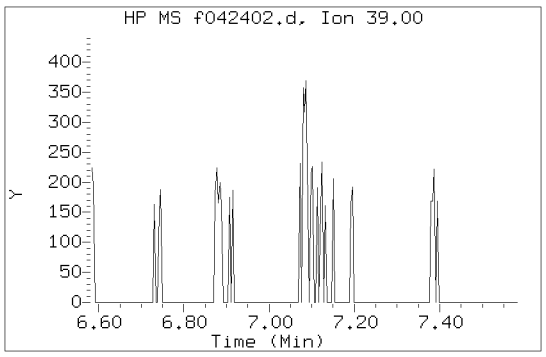
BEFORE

MASS
39
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

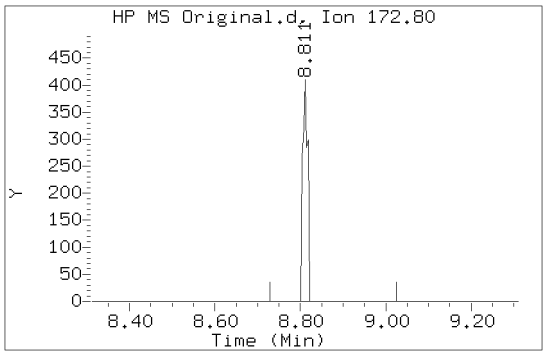


Bromoform (75-25-2)

Reason Code:

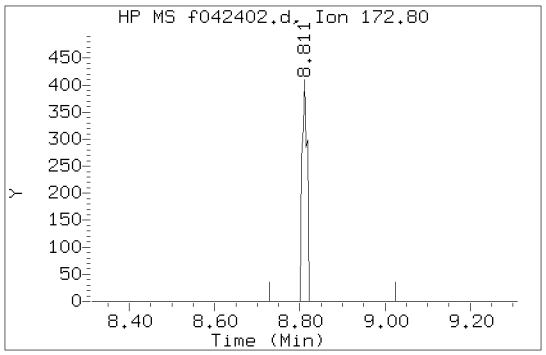
BEFORE

MASS
172.8
AREA
355
HEIGHT
410
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
172.8
AREA
355
HEIGHT
410
24-Apr-2024
13:49
firat
tastan

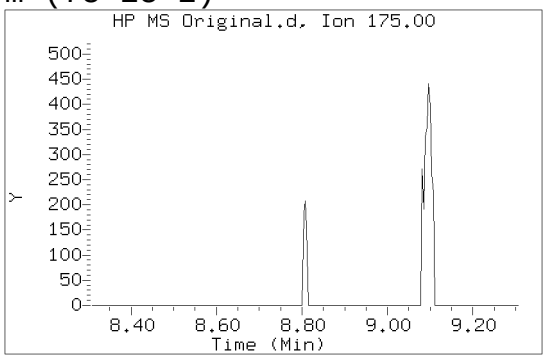


Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

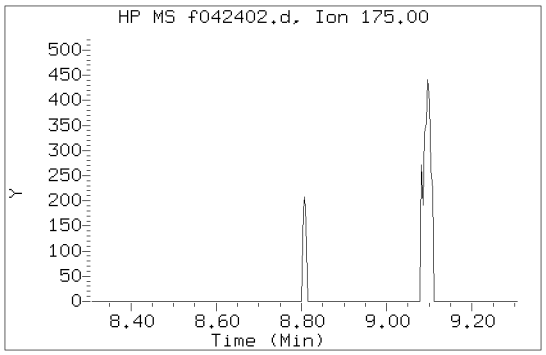
Bromoform (75-25-2)

Reason Code:

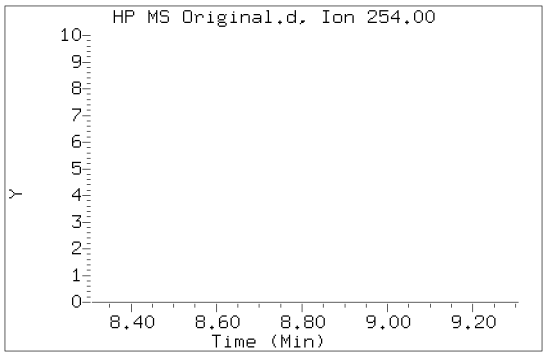
BEFORE
MASS
175
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



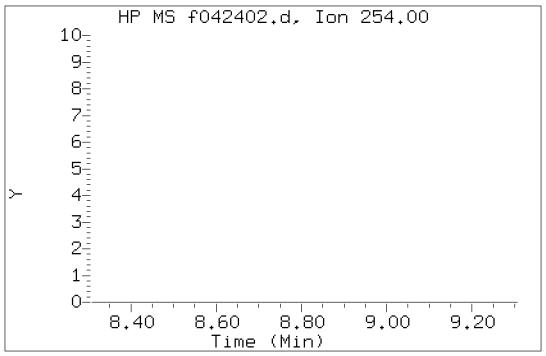
AFTER
MASS
175
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



BEFORE
MASS
254
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



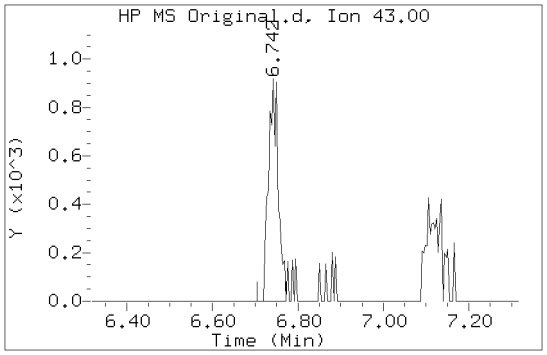
AFTER
MASS
254
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



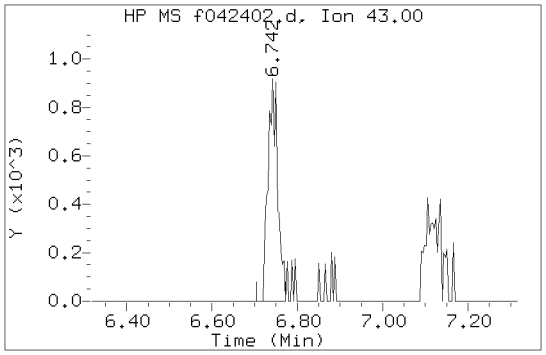
4-Methyl-2-Pentanone (108-10-1)

Reason Code:

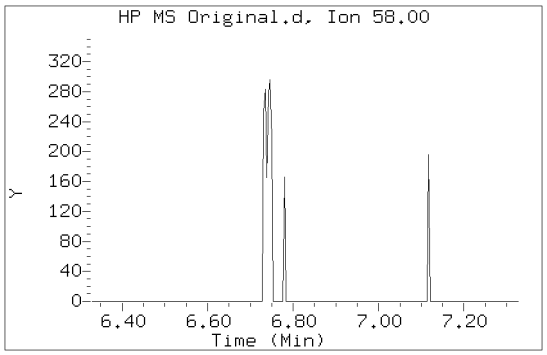
BEFORE
MASS
43
AREA
1445
HEIGHT
918
24-Apr-2024
13:49
firat
tastan



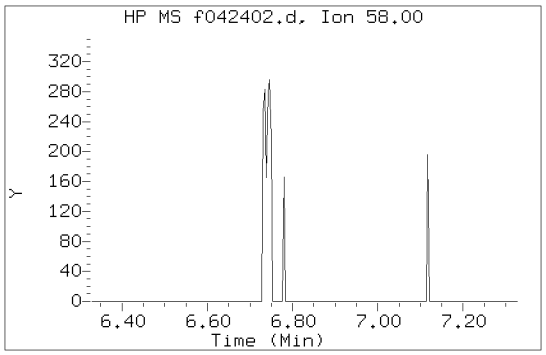
AFTER
MASS
43
AREA
1445
HEIGHT
918
24-Apr-2024
13:49
firat
tastan



BEFORE
MASS
58
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER
MASS
58
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



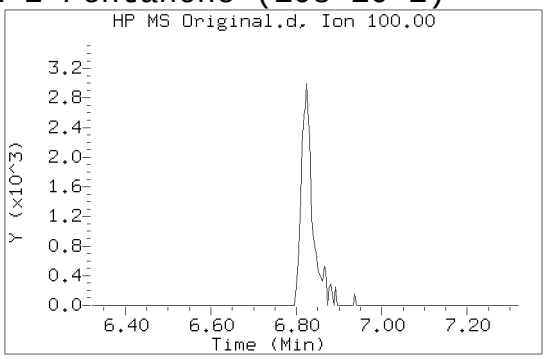
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

4-Methyl-2-Pentanone (108-10-1)

Reason Code:

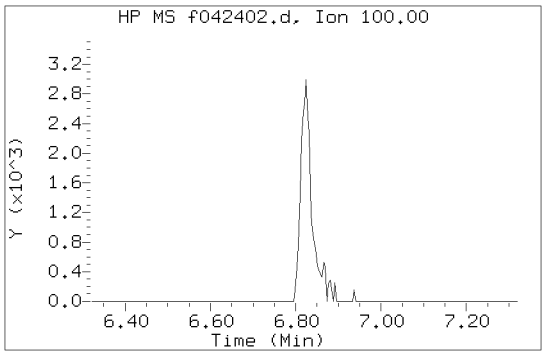
BEFORE

MASS
100
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
100
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

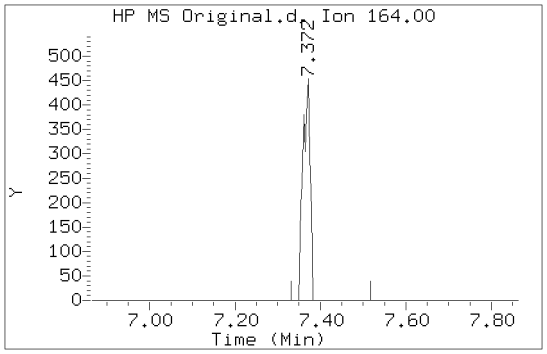


Tetrachloroethene (127-18-4)

Reason Code:

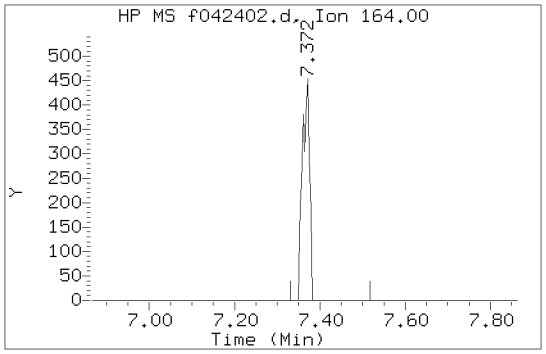
BEFORE

MASS
164
AREA
547
HEIGHT
454
24-Apr-2024
13:49
firat
tastan



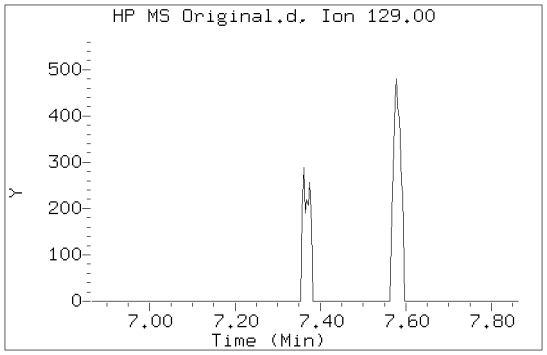
AFTER

MASS
164
AREA
547
HEIGHT
454
24-Apr-2024
13:49
firat
tastan



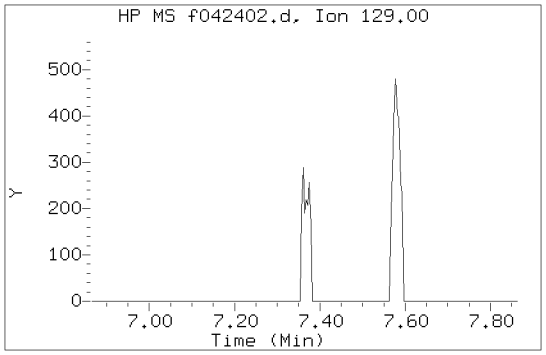
BEFORE

MASS
129
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
129
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



BEFORE

MASS
131
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
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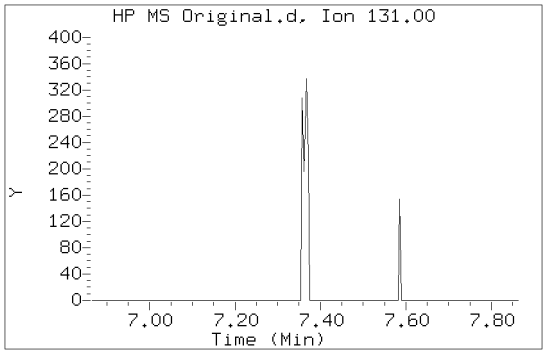

AFTER

MASS
131
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
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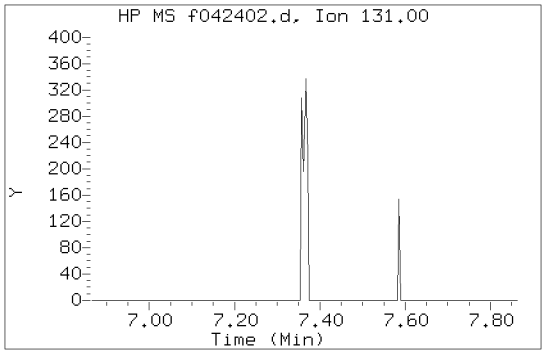


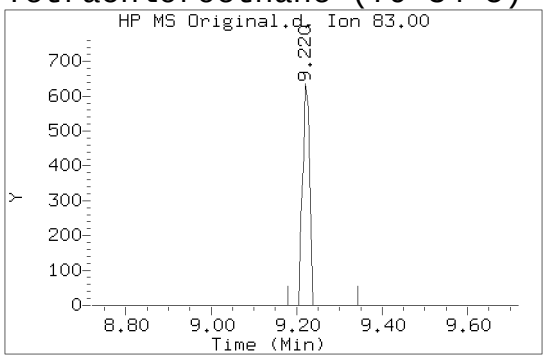
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

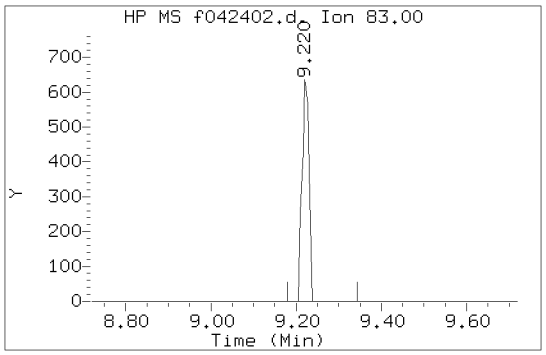
BEFORE

MASS
83
AREA
752
HEIGHT
636
24-Apr-2024
13:49
firat
tastan



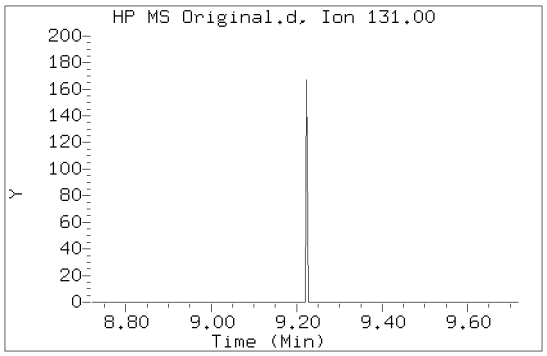
AFTER

MASS
83
AREA
752
HEIGHT
636
24-Apr-2024
13:49
firat
tastan



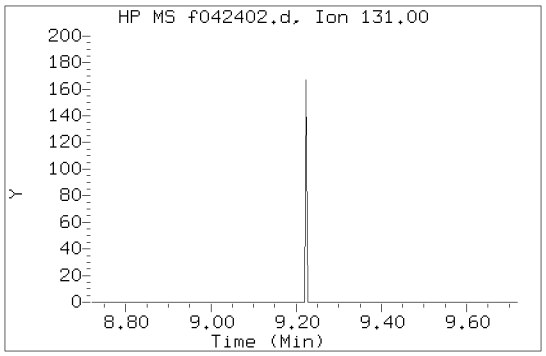
BEFORE

MASS
131
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



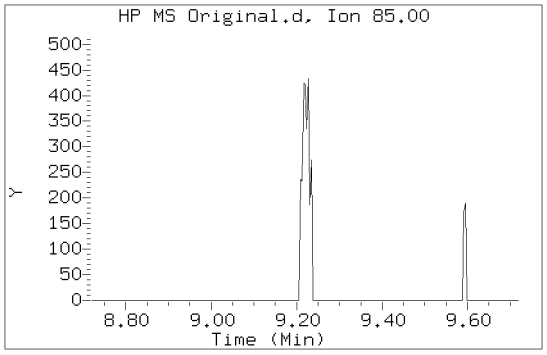
AFTER

MASS
131
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



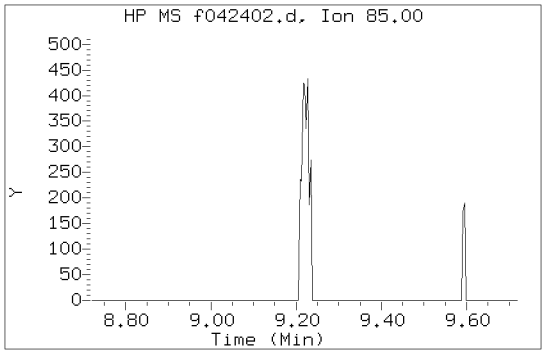
BEFORE

MASS
85
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

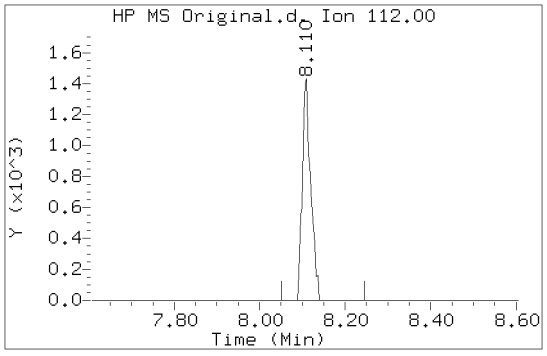


Chlorobenzene (108-90-7)

Reason Code:

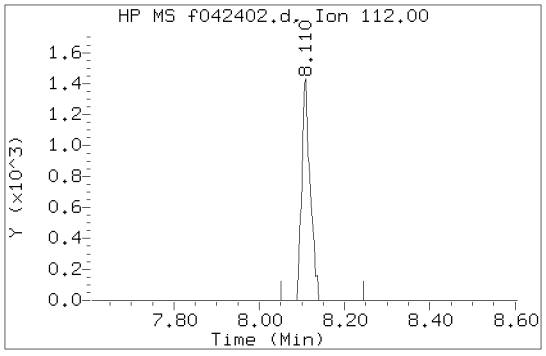
BEFORE

MASS
112
AREA
2024
HEIGHT
1432
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
112
AREA
2024
HEIGHT
1432
24-Apr-2024
13:49
firat
tastan

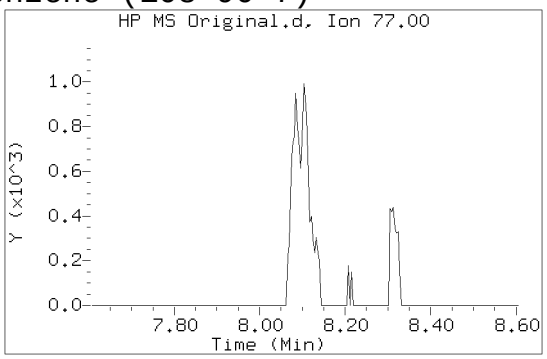


Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

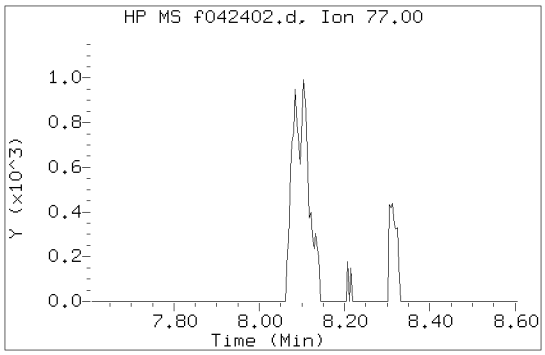
Chlorobenzene (108-90-7)

Reason Code:

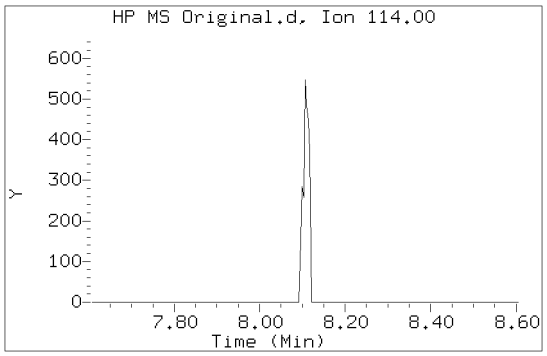
BEFORE
MASS
77
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



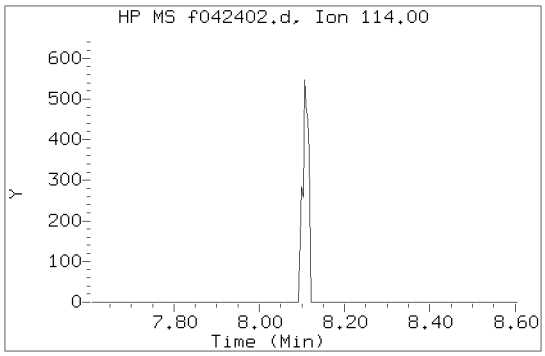
AFTER
MASS
77
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



BEFORE
MASS
114
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



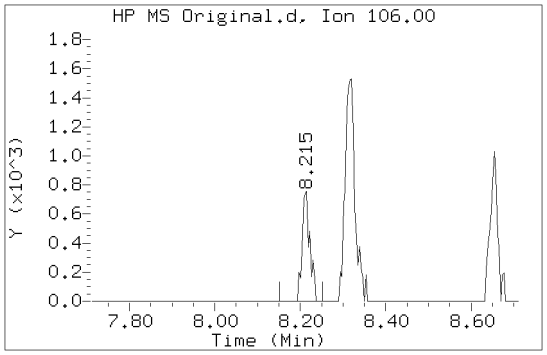
AFTER
MASS
114
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



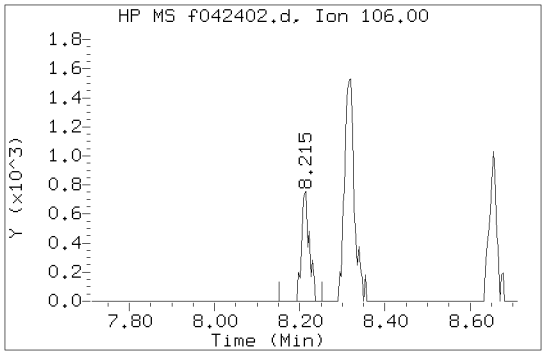
Ethylbenzene (100-41-4)

Reason Code:

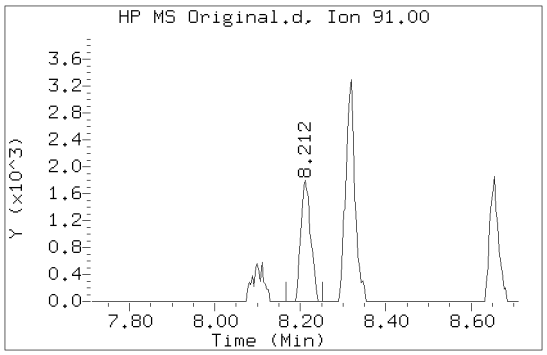
BEFORE
MASS
106
AREA
984
HEIGHT
757
24-Apr-2024
13:49
firat
tastan



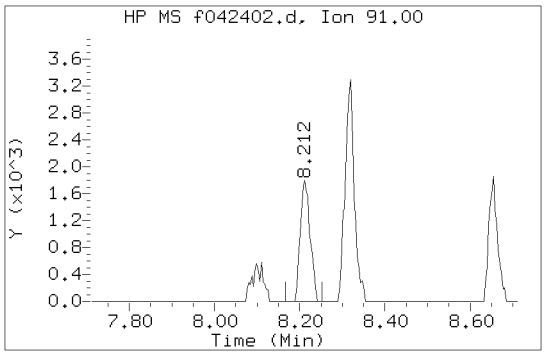
AFTER
MASS
106
AREA
984
HEIGHT
757
24-Apr-2024
13:49
firat
tastan



BEFORE
MASS
91
AREA
2949
HEIGHT
1802
24-Apr-2024
13:49
firat
tastan



AFTER
MASS
91
AREA
2949
HEIGHT
1802
24-Apr-2024
13:49
firat
tastan



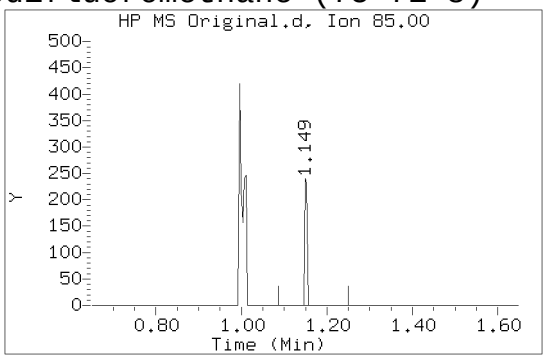
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Dichlorodifluoromethane (75-71-8)

Reason Code:

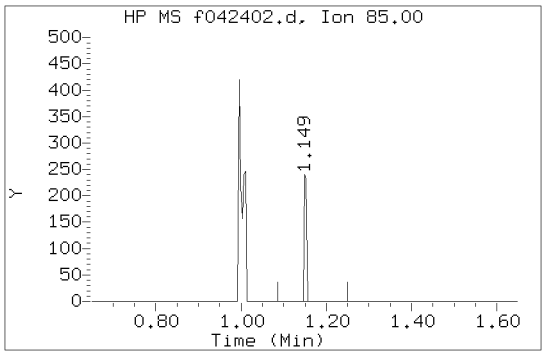
BEFORE

MASS
85
AREA
106
HEIGHT
241
24-Apr-2024
13:49
firat
tastan



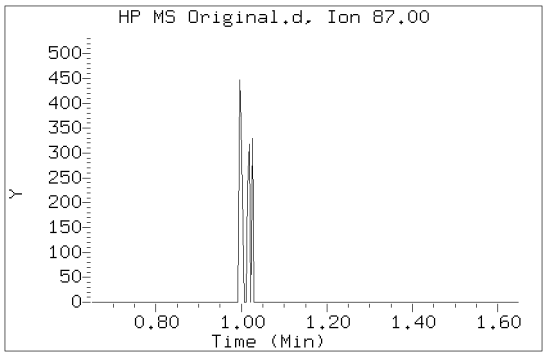
AFTER

MASS
85
AREA
106
HEIGHT
241
24-Apr-2024
13:49
firat
tastan



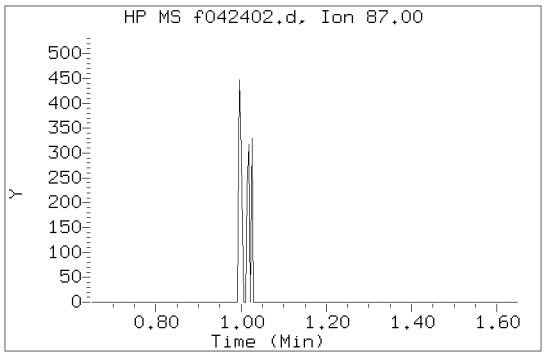
BEFORE

MASS
87
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
87
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

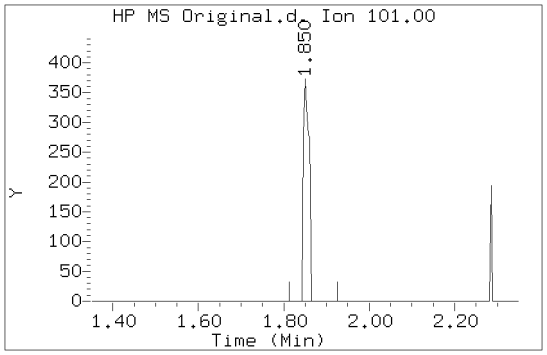


Trichlorofluoromethane (75-69-4)

Reason Code:

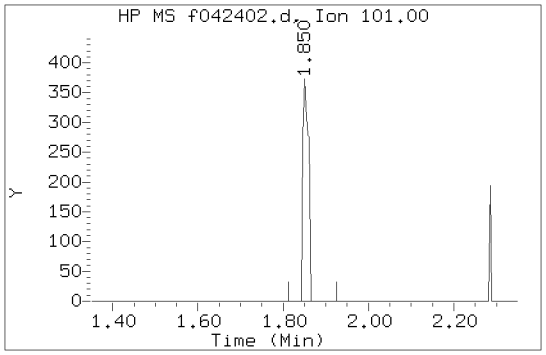
BEFORE

MASS
101
AREA
344
HEIGHT
373
24-Apr-2024
13:49
firat
tastan



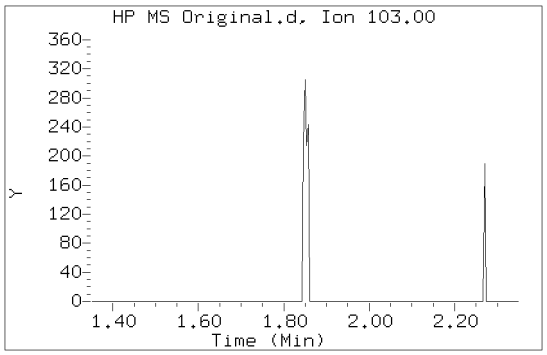
AFTER

MASS
101
AREA
344
HEIGHT
373
24-Apr-2024
13:49
firat
tastan



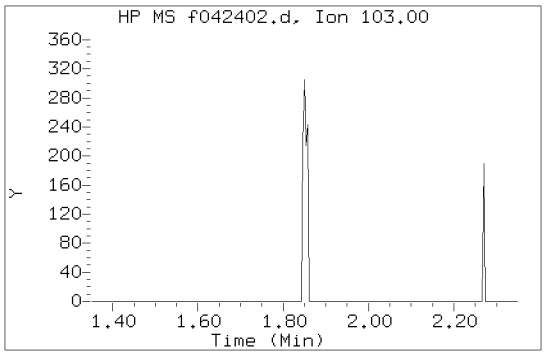
BEFORE

MASS
103
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
103
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



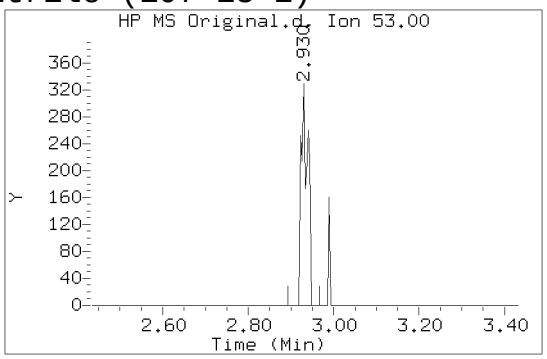
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Acrylonitrile (107-13-1)

Reason Code:

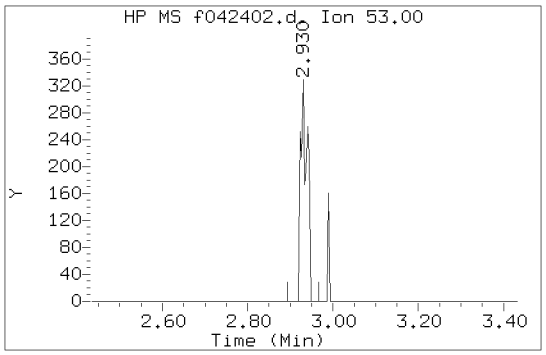
BEFORE

MASS
53
AREA
368
HEIGHT
329
24-Apr-2024
13:49
firat
tastan



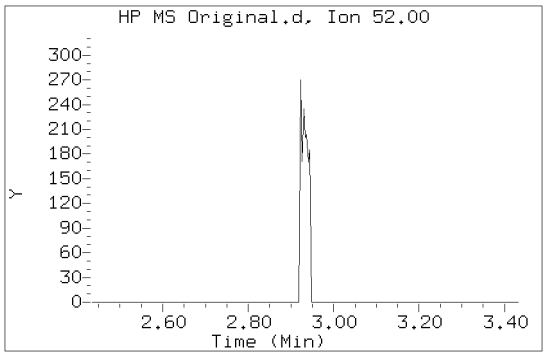
AFTER

MASS
53
AREA
368
HEIGHT
329
24-Apr-2024
13:49
firat
tastan



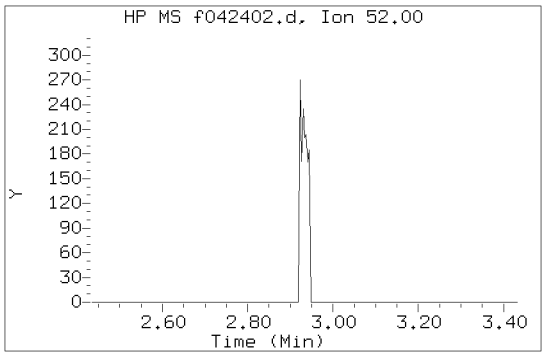
BEFORE

MASS
52
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



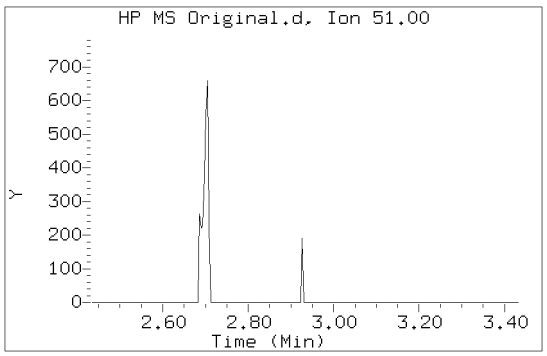
AFTER

MASS
52
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



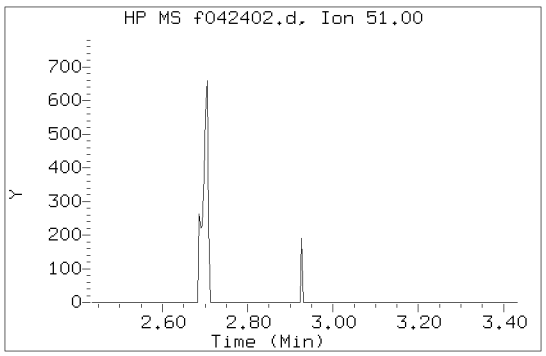
BEFORE

MASS
51
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
51
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

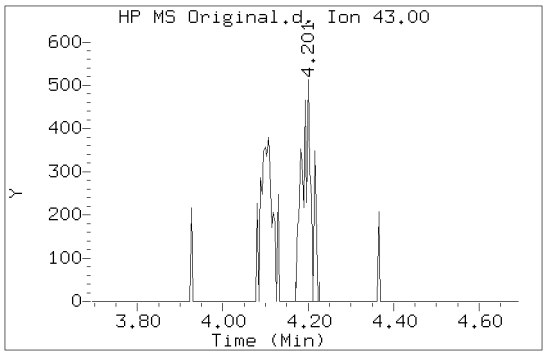


Vinyl Acetate (108-05-4)

Reason Code:

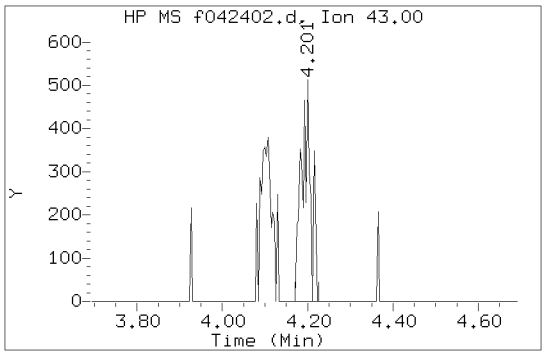
BEFORE

MASS
43
AREA
802
HEIGHT
513
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
43
AREA
802
HEIGHT
513
24-Apr-2024
13:49
firat
tastan



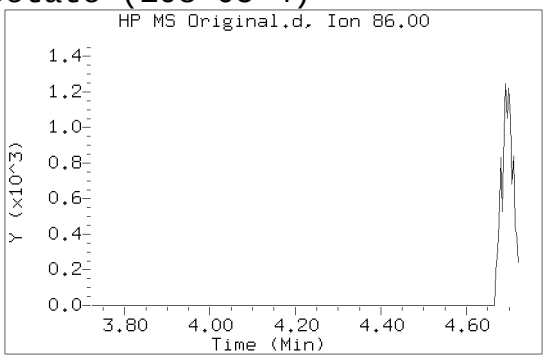
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Vinyl Acetate (108-05-4)

Reason Code:

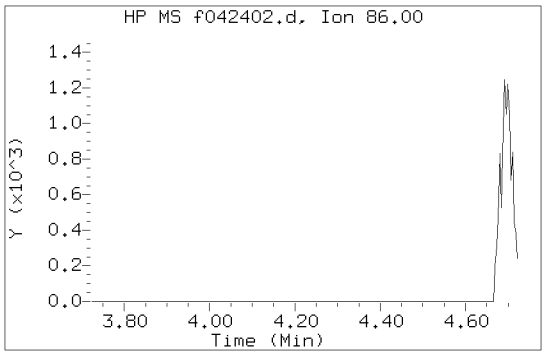
BEFORE

MASS
86
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
86
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

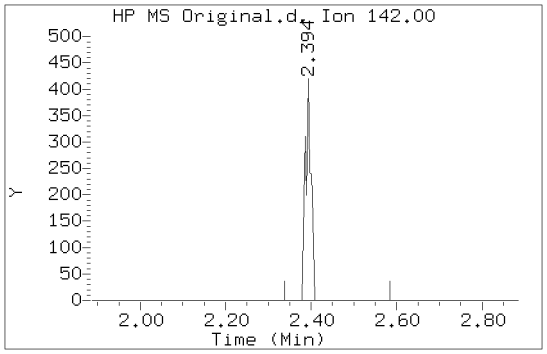


Iodomethane (74-88-4)

Reason Code:

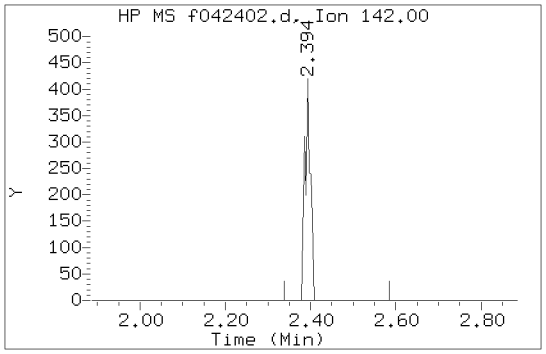
BEFORE

MASS
142
AREA
394
HEIGHT
420
24-Apr-2024
13:49
firat
tastan



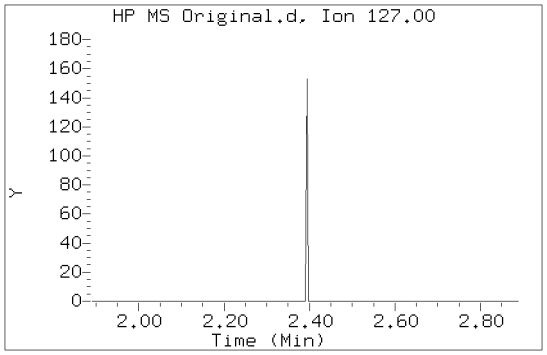
AFTER

MASS
142
AREA
394
HEIGHT
420
24-Apr-2024
13:49
firat
tastan



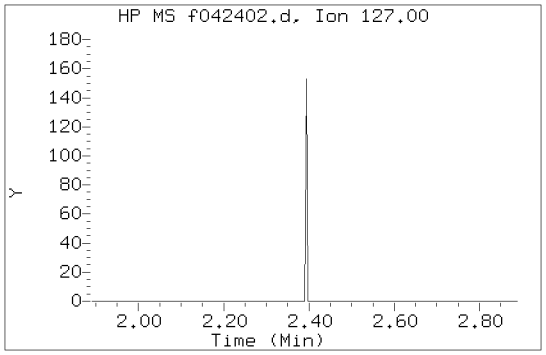
BEFORE

MASS
127
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



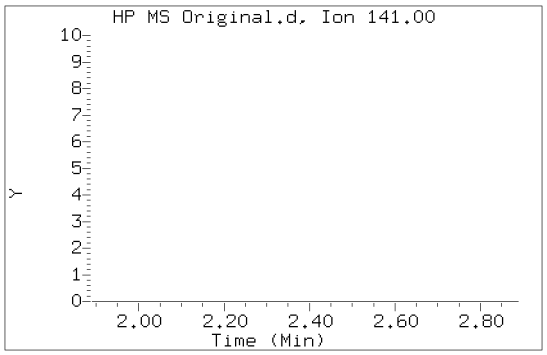
AFTER

MASS
127
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



BEFORE

MASS
141
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
141
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HEIGHT
0
24-Apr-2024
13:49
firat
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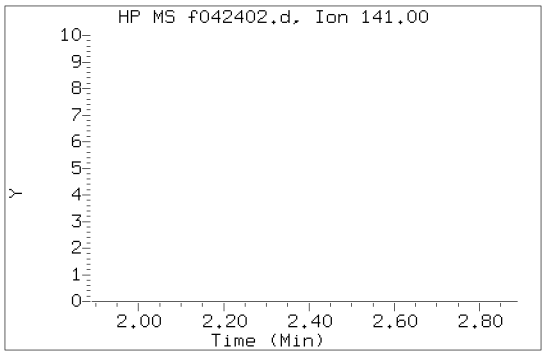

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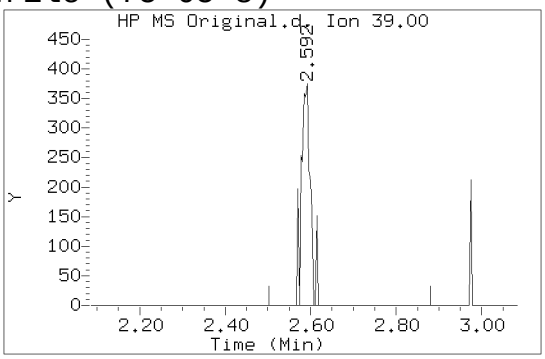
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Acetonitrile (75-05-8)

Reason Code:

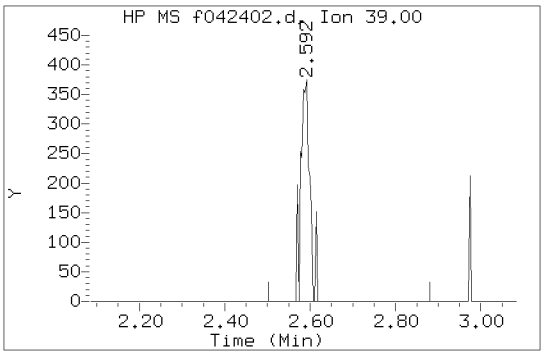
BEFORE

MASS
39
AREA
568
HEIGHT
375
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
39
AREA
568
HEIGHT
375
24-Apr-2024
13:49
firat
tastan



BEFORE

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40
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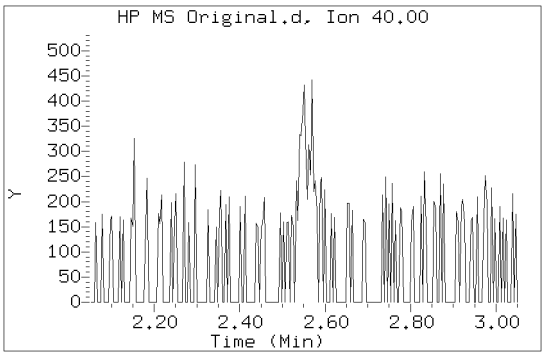
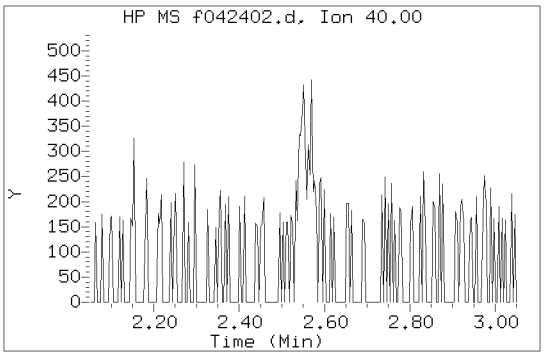
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
40
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

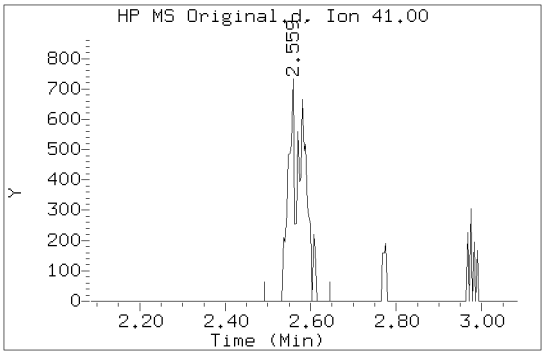


Allyl Chloride (107-05-1)

Reason Code:

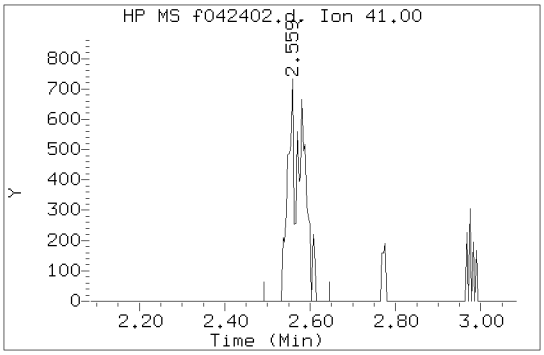
BEFORE

MASS
41
AREA
1735
HEIGHT
733
24-Apr-2024
13:49
firat
tastan



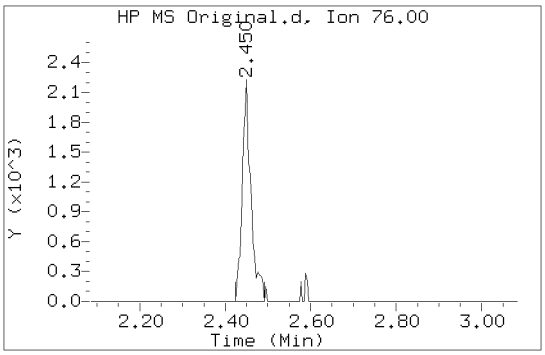
AFTER

MASS
41
AREA
1735
HEIGHT
733
24-Apr-2024
13:49
firat
tastan



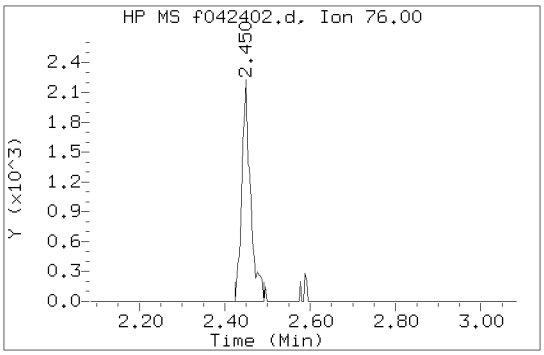
BEFORE

MASS
76
AREA
3124
HEIGHT
2228
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
76
AREA
3124
HEIGHT
2228
24-Apr-2024
13:49
firat
tastan



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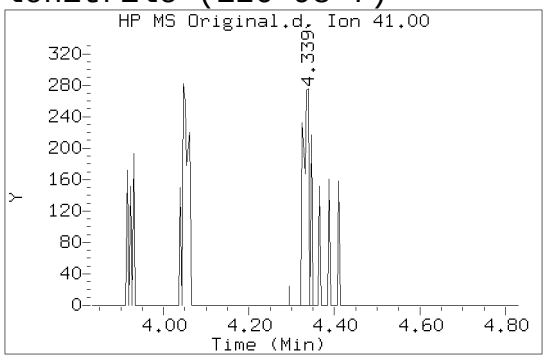
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Methacrylonitrile (126-98-7)

Reason Code:

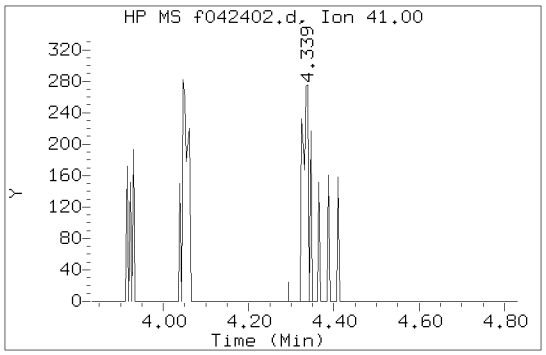
BEFORE

MASS
41
AREA
306
HEIGHT
276
24-Apr-2024
13:49
firat
tastan



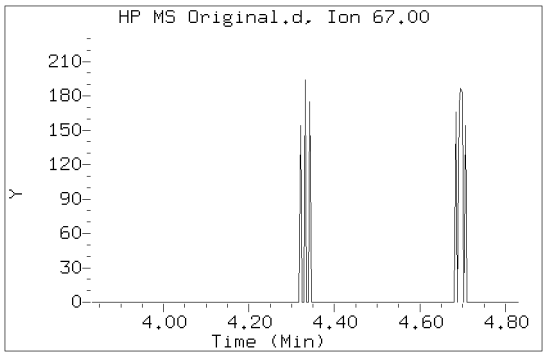
AFTER

MASS
41
AREA
306
HEIGHT
276
24-Apr-2024
13:49
firat
tastan



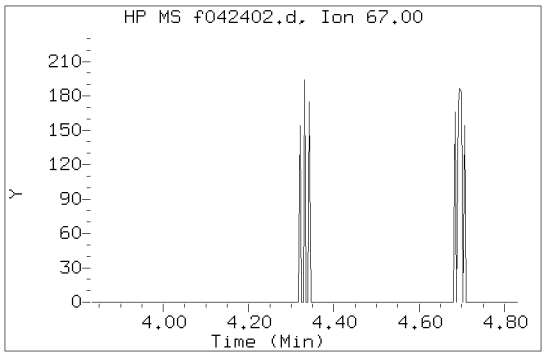
BEFORE

MASS
67
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



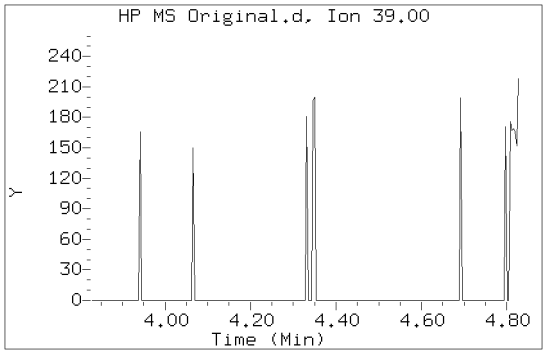
AFTER

MASS
67
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



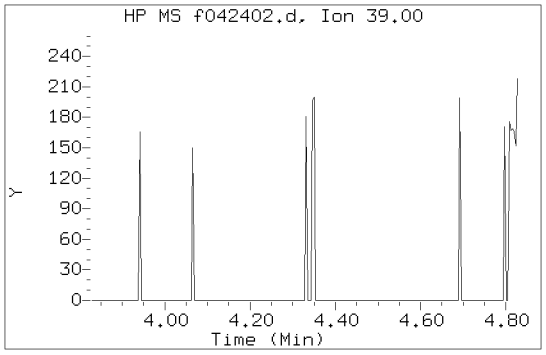
BEFORE

MASS
39
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

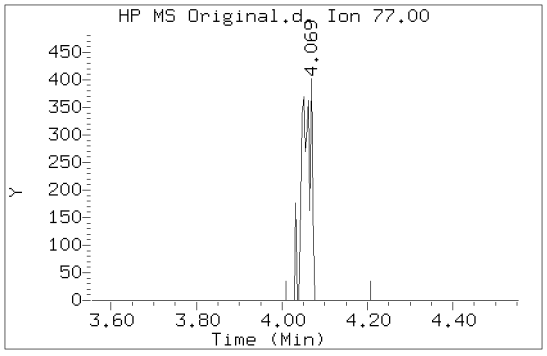


2,2-Dichloropropane (594-20-7)

Reason Code:

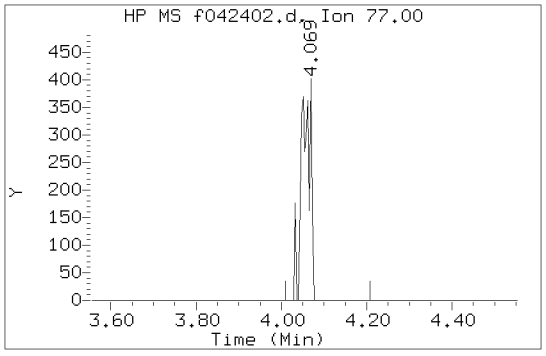
BEFORE

MASS
77
AREA
610
HEIGHT
402
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
77
AREA
610
HEIGHT
402
24-Apr-2024
13:49
firat
tastan



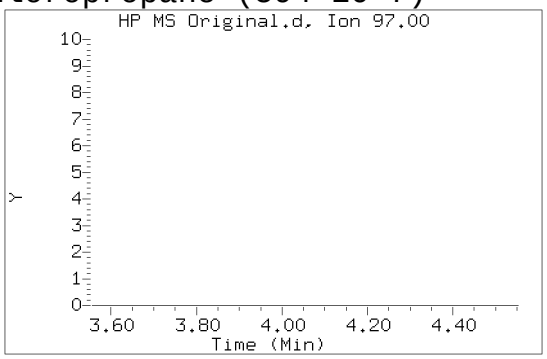
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

2,2-Dichloropropane (594-20-7)

Reason Code:

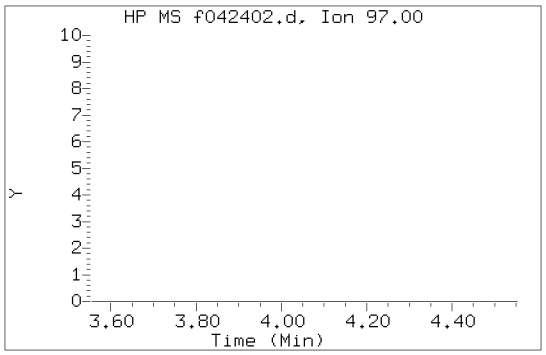
BEFORE

MASS
97
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
97
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

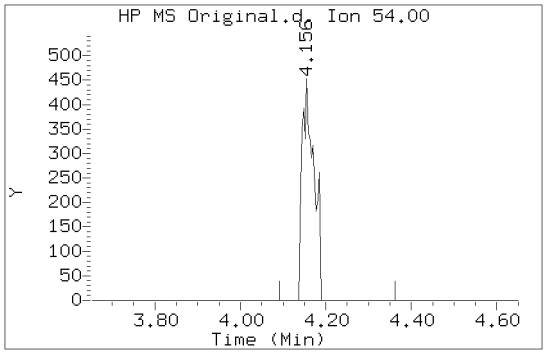


Propionitrile (107-12-0)

Reason Code:

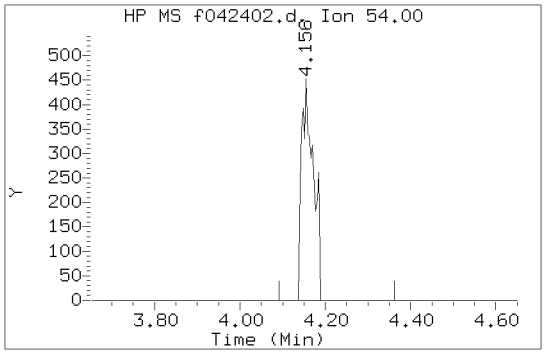
BEFORE

MASS
54
AREA
883
HEIGHT
453
24-Apr-2024
13:49
firat
tastan



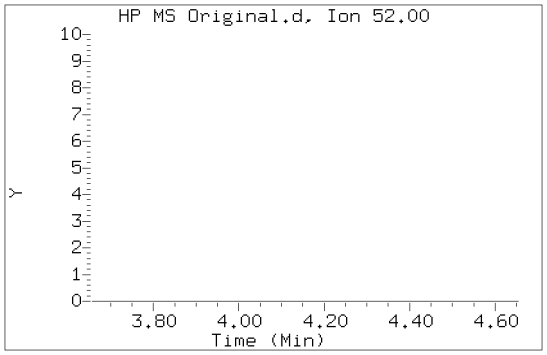
AFTER

MASS
54
AREA
883
HEIGHT
453
24-Apr-2024
13:49
firat
tastan



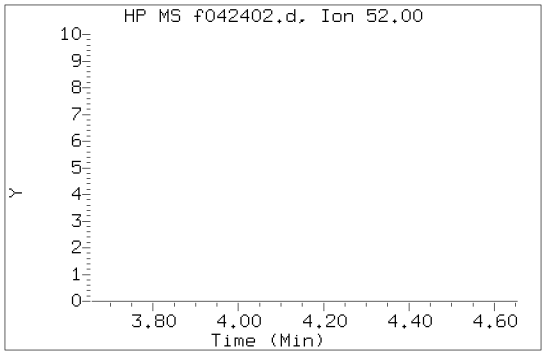
BEFORE

MASS
52
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



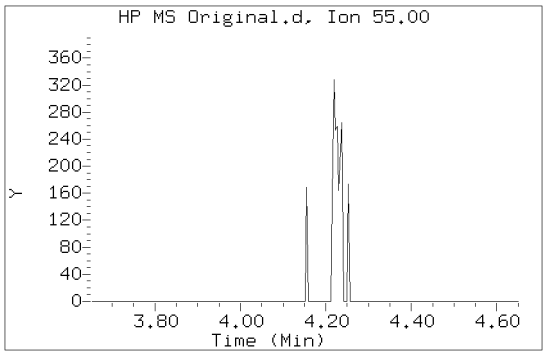
AFTER

MASS
52
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



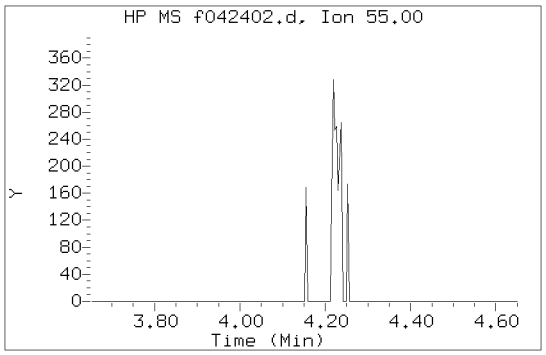
BEFORE

MASS
55
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
55
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



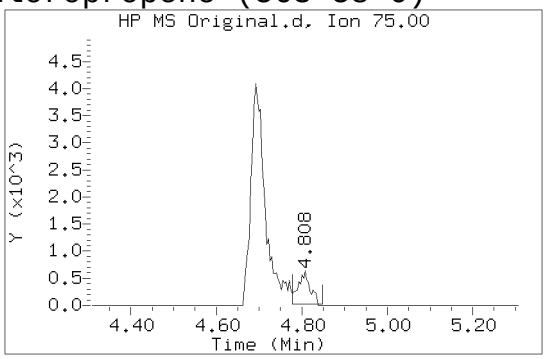
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

1,1-Dichloropropene (563-58-6)

Reason Code:

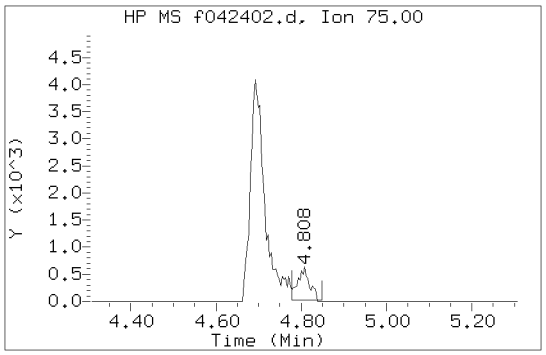
BEFORE

MASS
75
AREA
1165
HEIGHT
617
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
75
AREA
1165
HEIGHT
617
24-Apr-2024
13:49
firat
tastan



BEFORE

MASS
110
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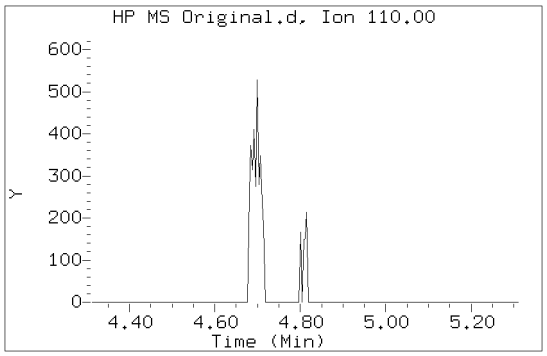
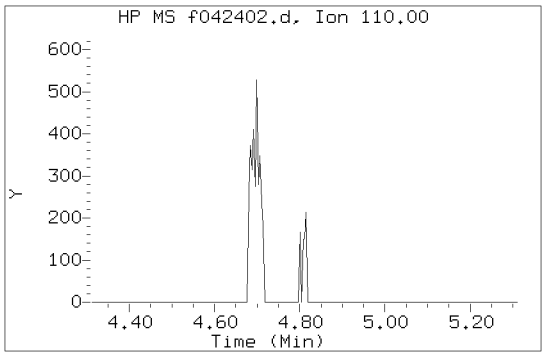
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



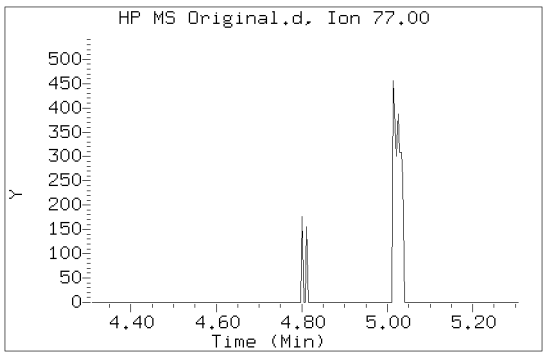
AFTER

MASS
110
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



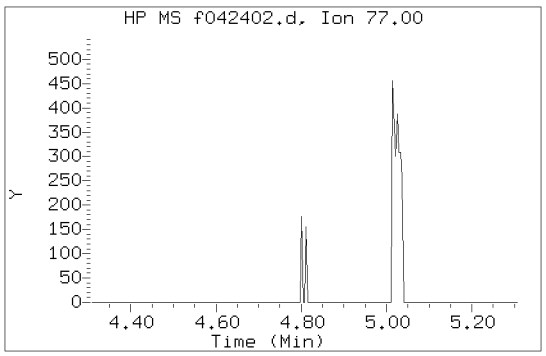
BEFORE

MASS
77
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
77
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

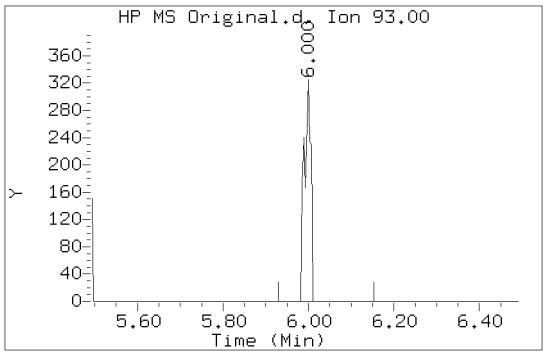


Dibromomethane (74-95-3)

Reason Code:

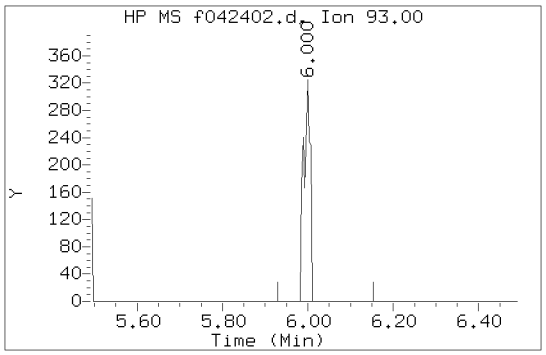
BEFORE

MASS
93
AREA
358
HEIGHT
325
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
93
AREA
358
HEIGHT
325
24-Apr-2024
13:49
firat
tastan



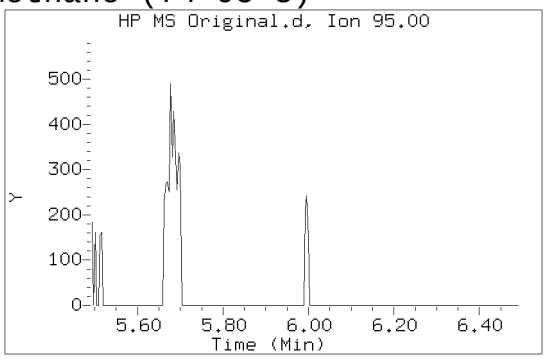
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Dibromomethane (74-95-3)

Reason Code:

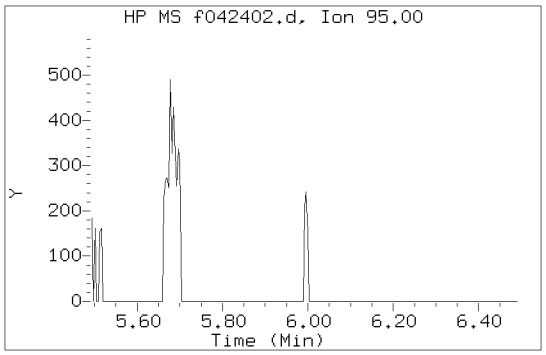
BEFORE

MASS
95
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



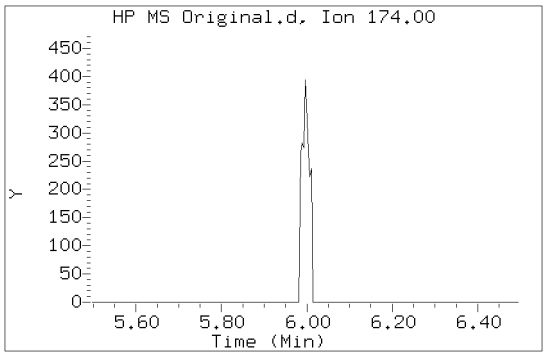
AFTER

MASS
95
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



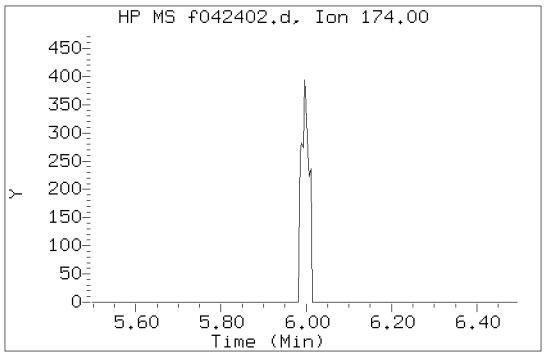
BEFORE

MASS
174
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
174
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

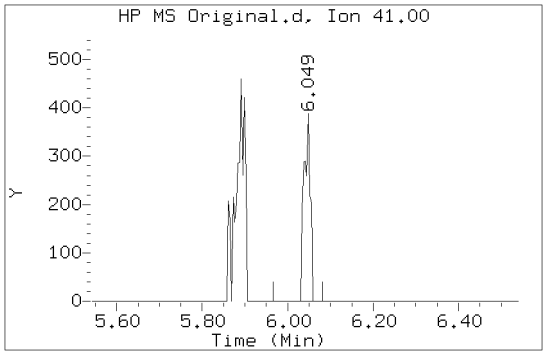


Methyl Methacrylate (80-62-6)

Reason Code:

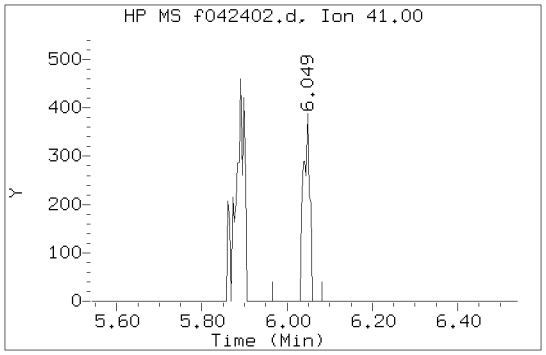
BEFORE

MASS
41
AREA
413
HEIGHT
389
24-Apr-2024
13:49
firat
tastan



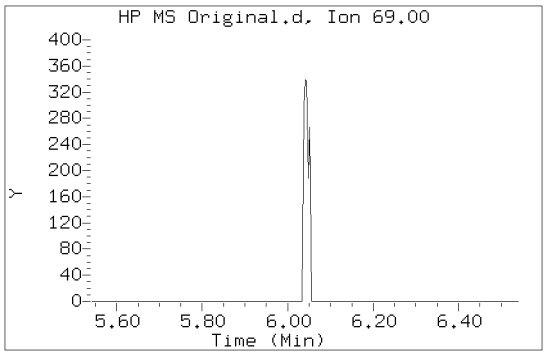
AFTER

MASS
41
AREA
413
HEIGHT
389
24-Apr-2024
13:49
firat
tastan



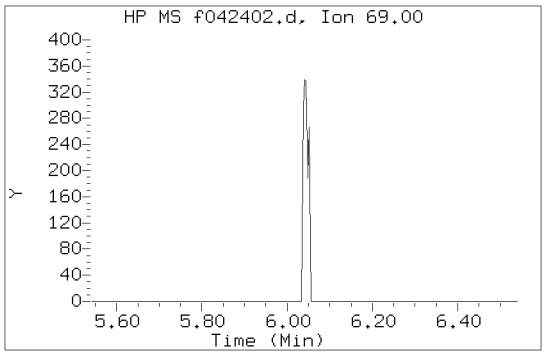
BEFORE

MASS
69
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
69
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



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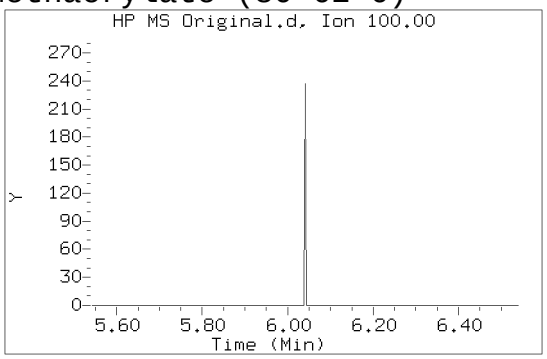
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Methyl Methacrylate (80-62-6)

Reason Code:

BEFORE

MASS
100
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
100
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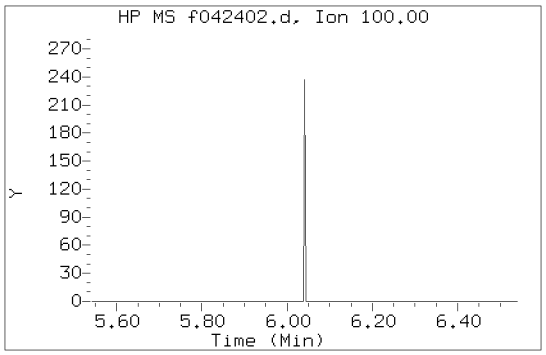
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

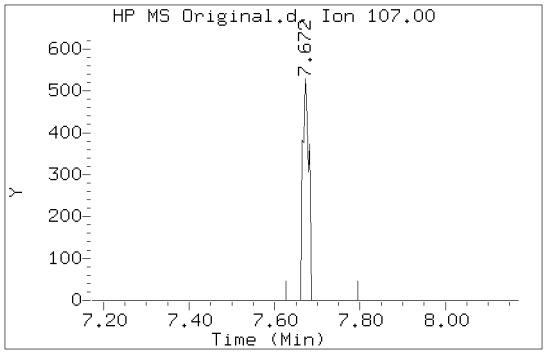


1,2-Dibromoethane (106-93-4)

Reason Code:

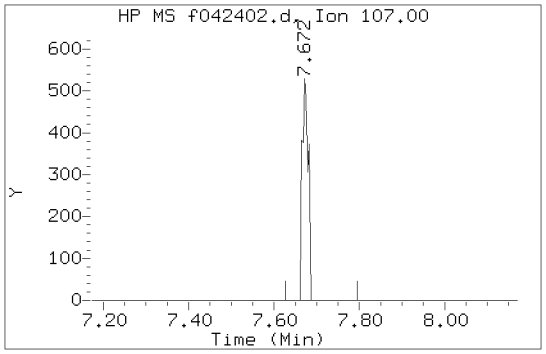
BEFORE

MASS
107
AREA
550
HEIGHT
529
24-Apr-2024
13:49
firat
tastan



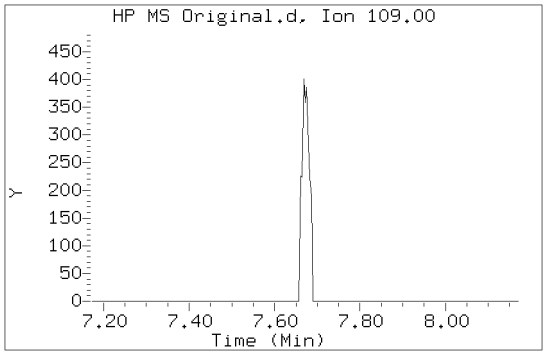
AFTER

MASS
107
AREA
550
HEIGHT
529
24-Apr-2024
13:49
firat
tastan



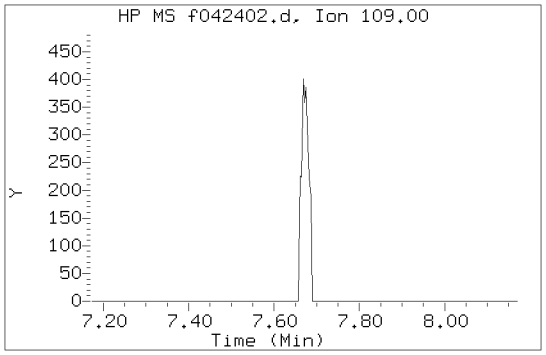
BEFORE

MASS
109
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
109
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

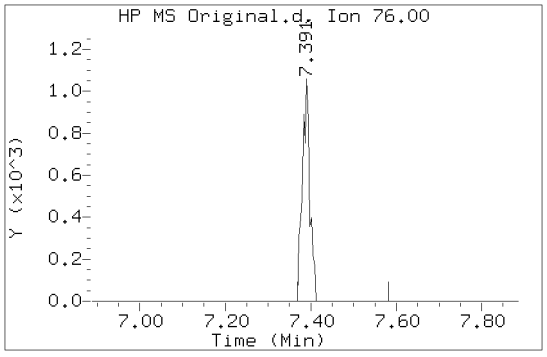


1,3-Dichloropropane (142-28-9)

Reason Code:

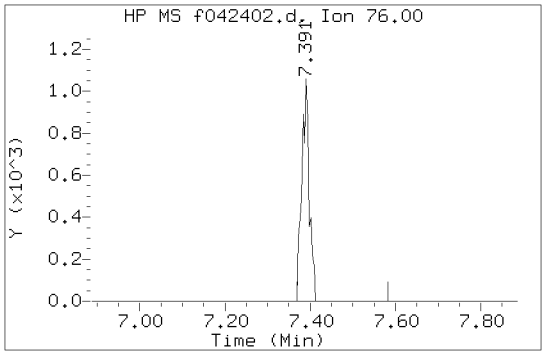
BEFORE

MASS
76
AREA
1326
HEIGHT
1059
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
76
AREA
1326
HEIGHT
1059
24-Apr-2024
13:49
firat
tastan



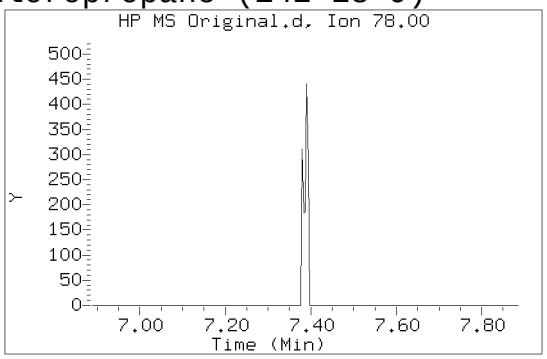
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

1,3-Dichloropropane (142-28-9)

Reason Code:

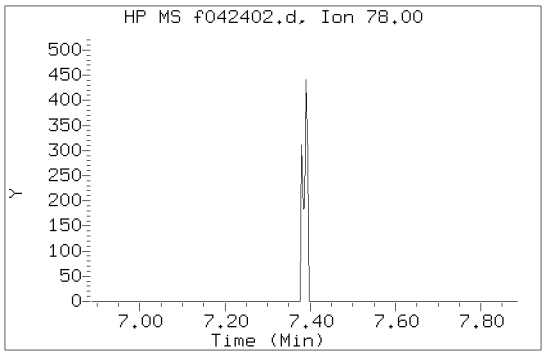
BEFORE

MASS
78
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
78
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

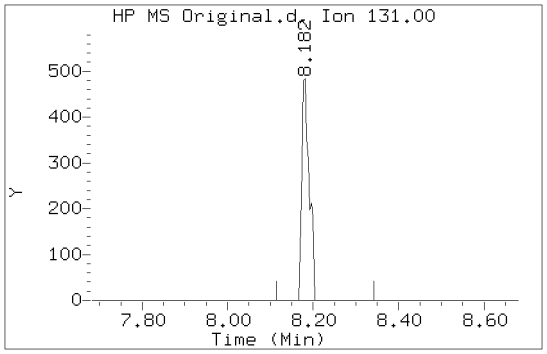


1,1,1,2-Tetrachloroethane (630-20-6)

Reason Code:

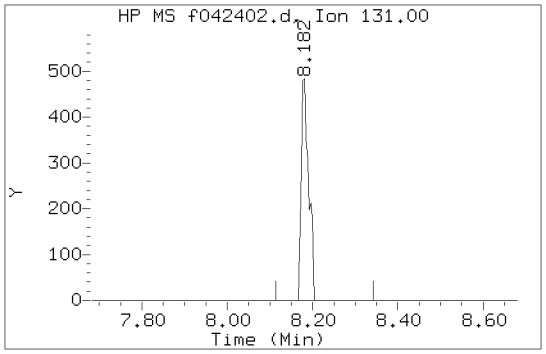
BEFORE

MASS
131
AREA
601
HEIGHT
484
24-Apr-2024
13:49
firat
tastan



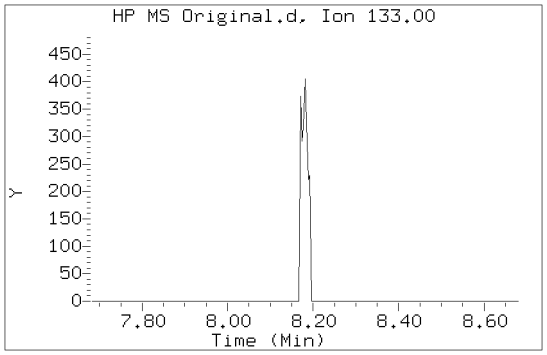
AFTER

MASS
131
AREA
601
HEIGHT
484
24-Apr-2024
13:49
firat
tastan



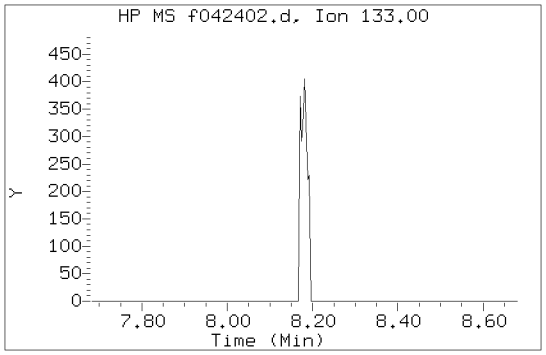
BEFORE

MASS
133
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



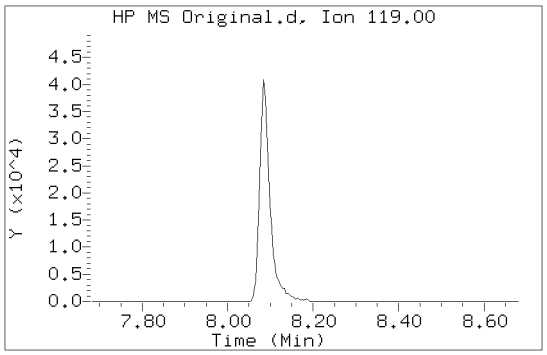
AFTER

MASS
133
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



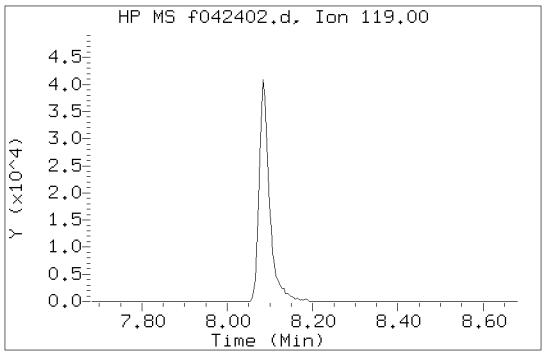
BEFORE

MASS
119
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
119
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



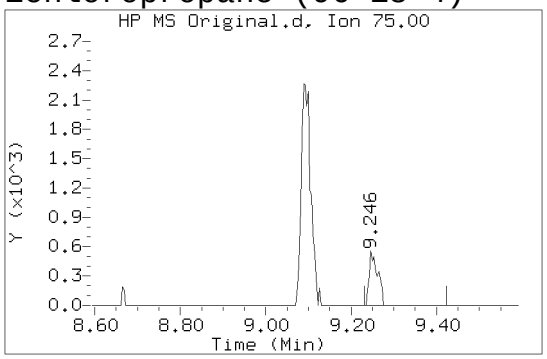
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

1,2,3-Trichloropropane (96-18-4)

Reason Code:

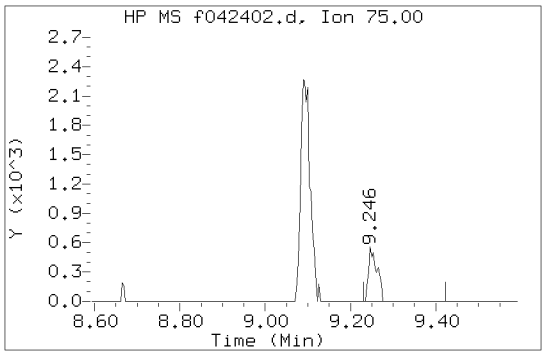
BEFORE

MASS
75
AREA
764
HEIGHT
557
24-Apr-2024
13:49
firat
tastan



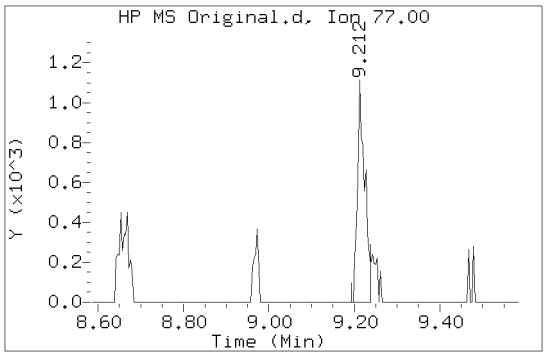
AFTER

MASS
75
AREA
764
HEIGHT
557
24-Apr-2024
13:49
firat
tastan



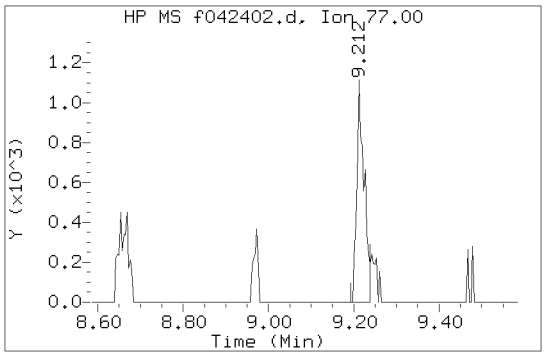
BEFORE

MASS
77
AREA
1341
HEIGHT
1114
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
77
AREA
1341
HEIGHT
1114
24-Apr-2024
13:49
firat
tastan

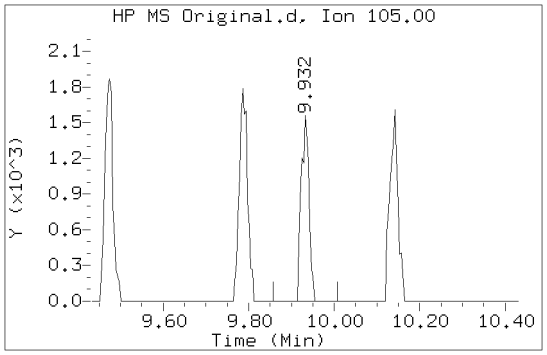


sec-Butylbenzene (135-98-8)

Reason Code:

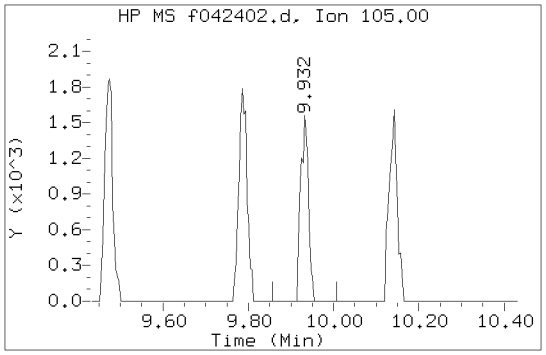
BEFORE

MASS
105
AREA
2054
HEIGHT
1561
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
105
AREA
2054
HEIGHT
1561
24-Apr-2024
13:49
firat
tastan



BEFORE

MASS
134
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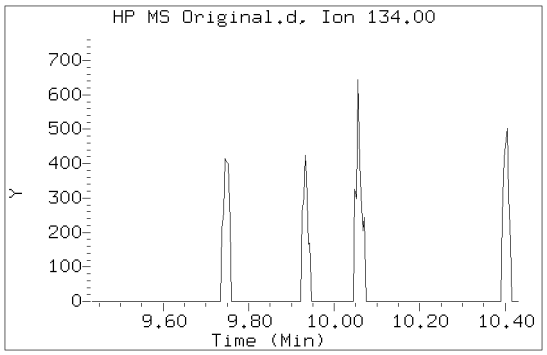
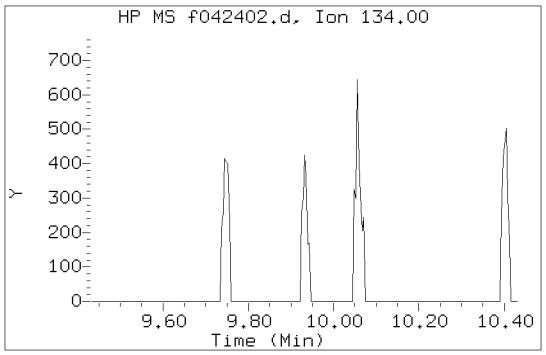
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
134
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



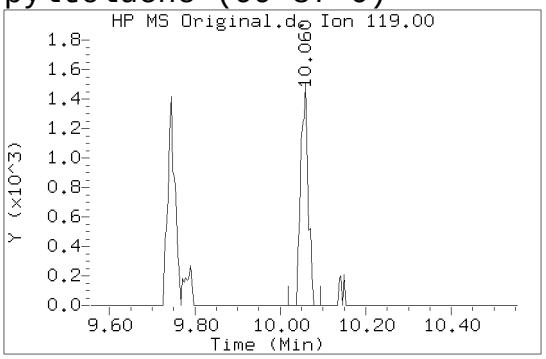
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

p-Isopropyltoluene (99-87-6)

Reason Code:

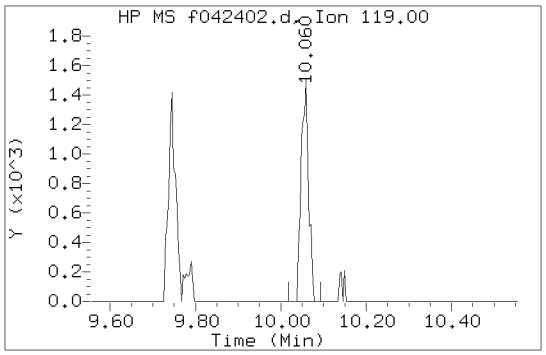
BEFORE

MASS
119
AREA
1858
HEIGHT
1505
24-Apr-2024
13:49
firat
tastan



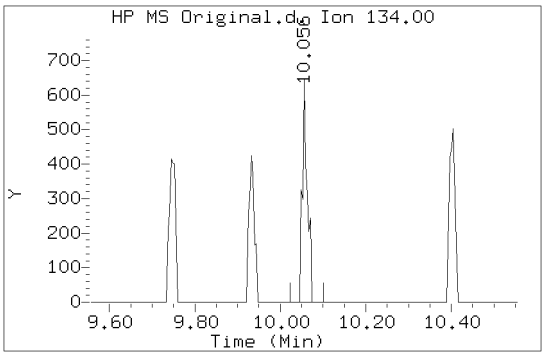
AFTER

MASS
119
AREA
1858
HEIGHT
1505
24-Apr-2024
13:49
firat
tastan



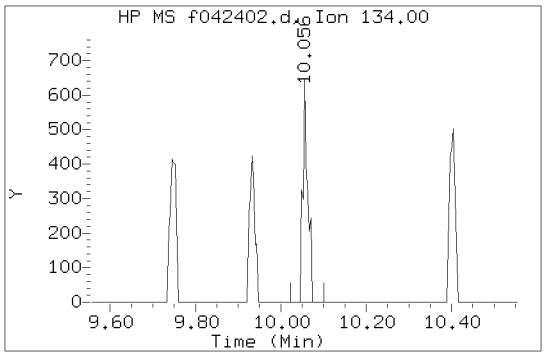
BEFORE

MASS
134
AREA
546
HEIGHT
644
24-Apr-2024
13:49
firat
tastan



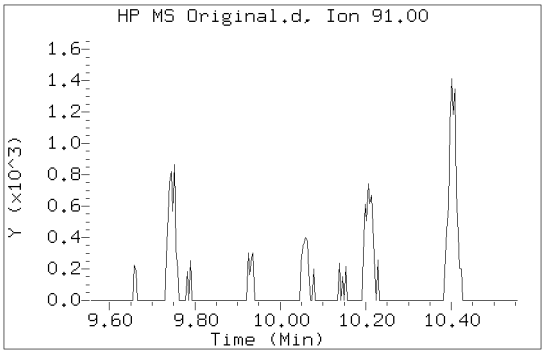
AFTER

MASS
134
AREA
546
HEIGHT
644
24-Apr-2024
13:49
firat
tastan



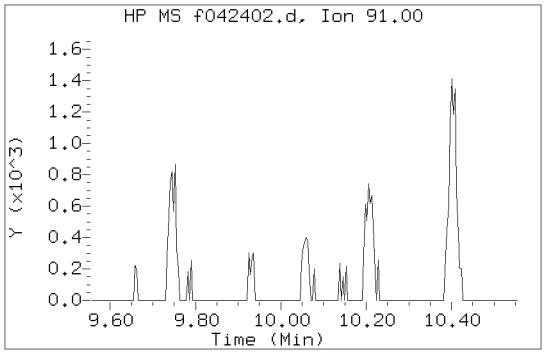
BEFORE

MASS
91
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
91
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

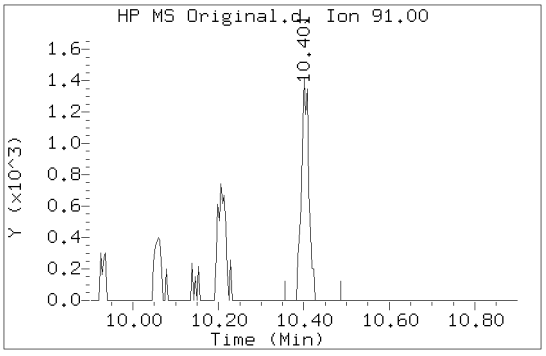


Benzyl Chloride (100-44-7)

Reason Code:

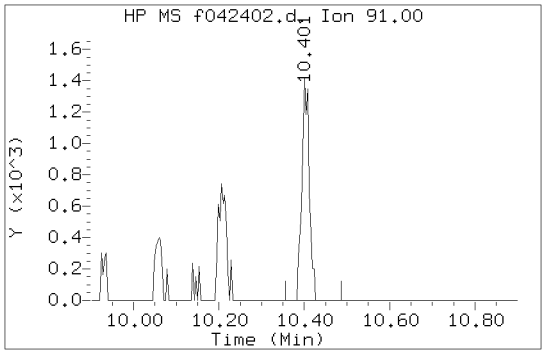
BEFORE

MASS
91
AREA
1778
HEIGHT
1413
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
91
AREA
1778
HEIGHT
1413
24-Apr-2024
13:49
firat
tastan



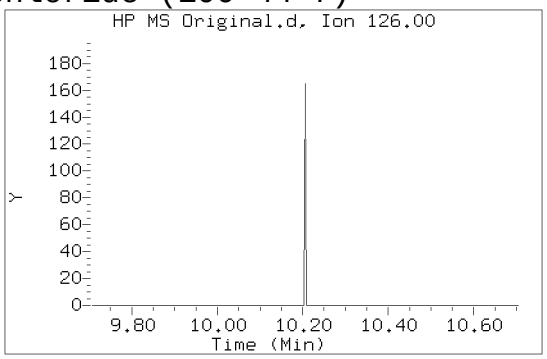
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Benzyl Chloride (100-44-7)

Reason Code:

BEFORE

MASS
126
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
126
AREA
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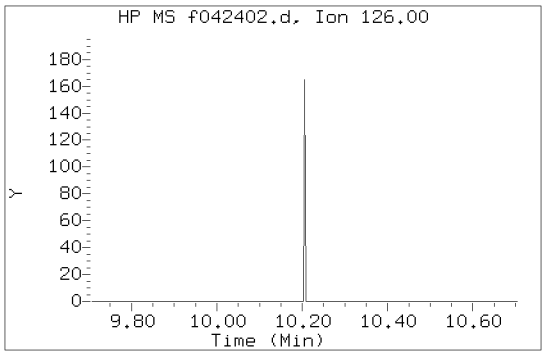
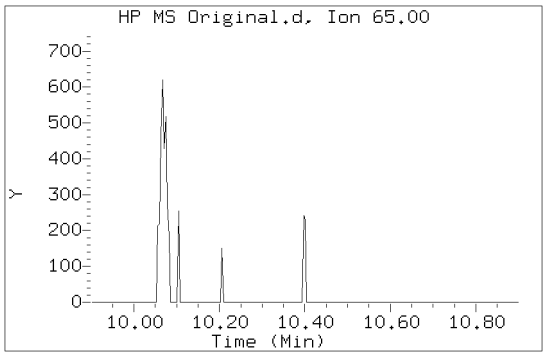
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



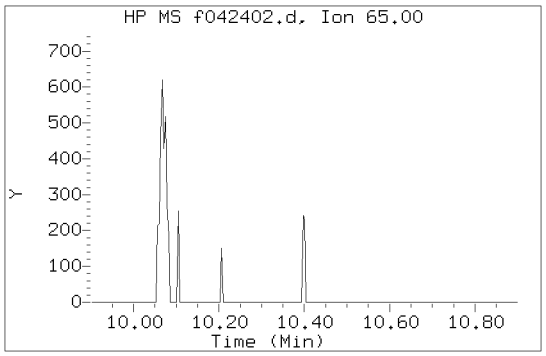
BEFORE

MASS
65
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
65
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

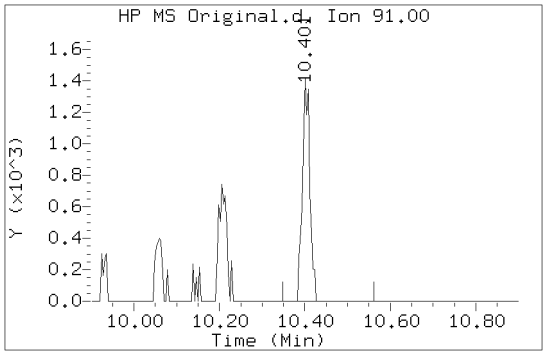


n-Butylbenzene (104-51-8)

Reason Code:

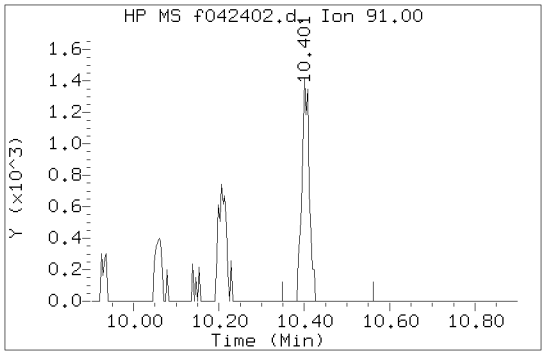
BEFORE

MASS
91
AREA
1778
HEIGHT
1413
24-Apr-2024
13:49
firat
tastan



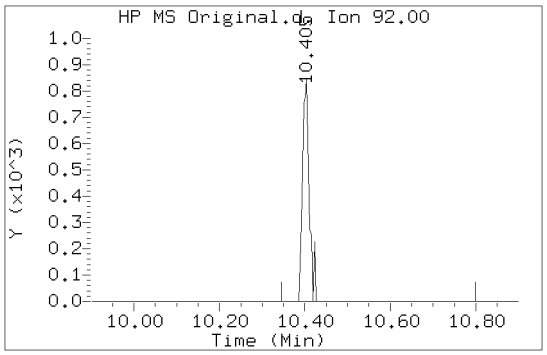
AFTER

MASS
91
AREA
1778
HEIGHT
1413
24-Apr-2024
13:49
firat
tastan



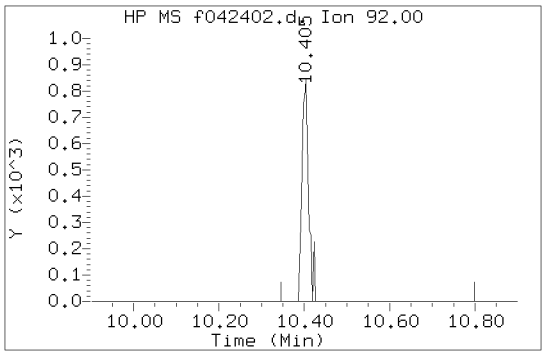
BEFORE

MASS
92
AREA
952
HEIGHT
843
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
92
AREA
952
HEIGHT
843
24-Apr-2024
13:49
firat
tastan



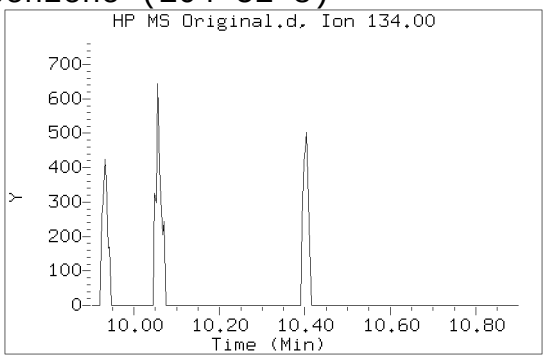
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

n-Butylbenzene (104-51-8)

Reason Code:

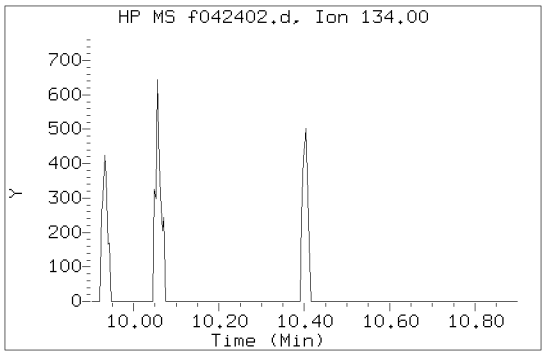
BEFORE

MASS
134
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
134
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

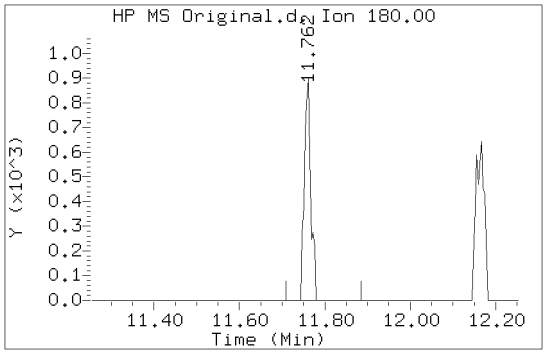


1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

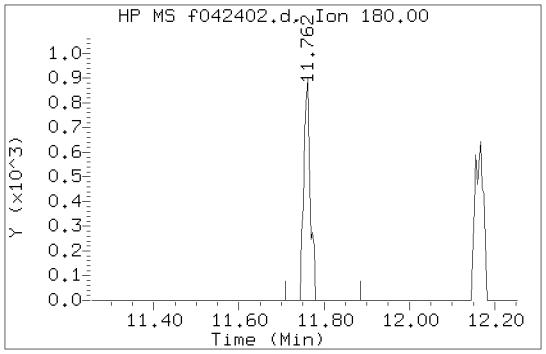
BEFORE

MASS
180
AREA
979
HEIGHT
898
24-Apr-2024
13:49
firat
tastan



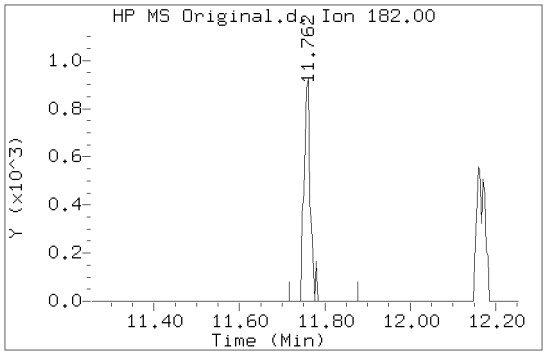
AFTER

MASS
180
AREA
979
HEIGHT
898
24-Apr-2024
13:49
firat
tastan



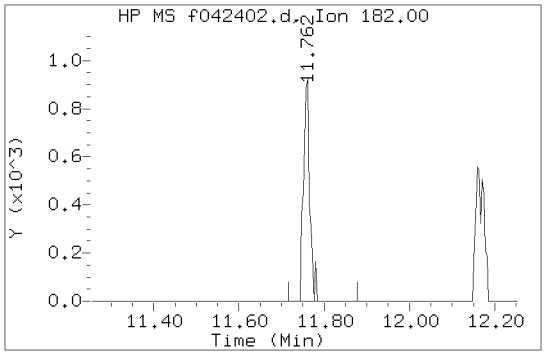
BEFORE

MASS
182
AREA
979
HEIGHT
924
24-Apr-2024
13:49
firat
tastan



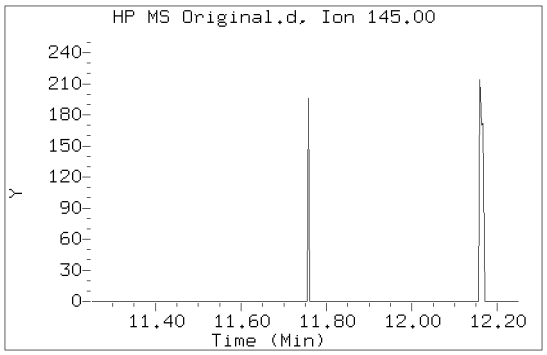
AFTER

MASS
182
AREA
979
HEIGHT
924
24-Apr-2024
13:49
firat
tastan



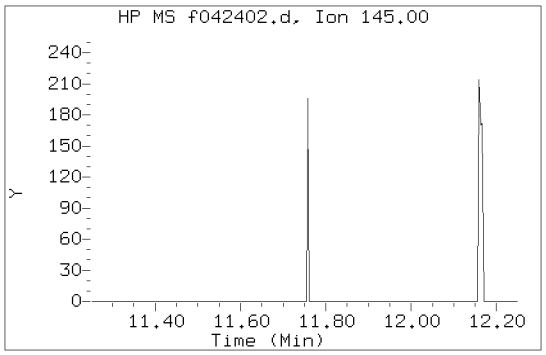
BEFORE

MASS
145
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
145
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



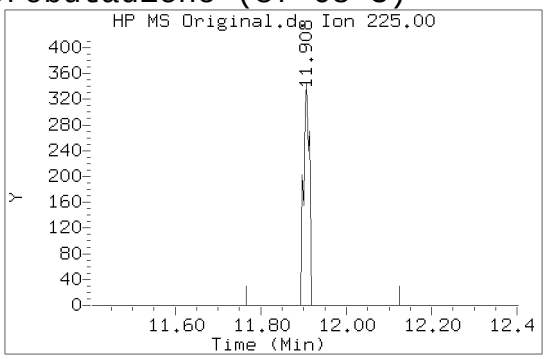
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Hexachlorobutadiene (87-68-3)

Reason Code:

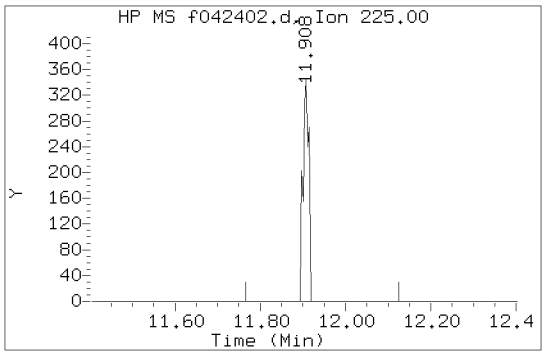
BEFORE

MASS
225
AREA
341
HEIGHT
344
24-Apr-2024
13:49
firat
tastan



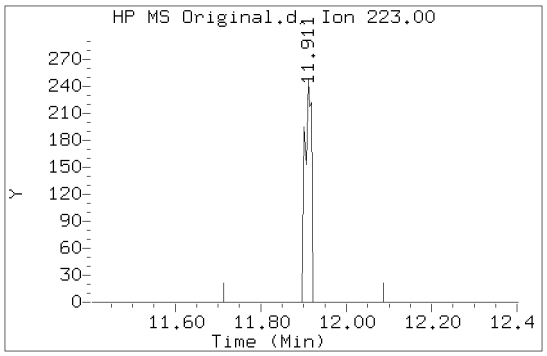
AFTER

MASS
225
AREA
341
HEIGHT
344
24-Apr-2024
13:49
firat
tastan



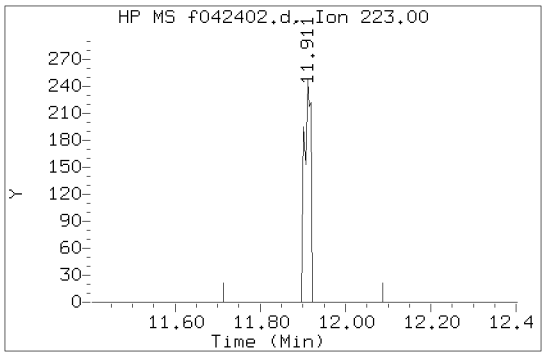
BEFORE

MASS
223
AREA
271
HEIGHT
247
24-Apr-2024
13:49
firat
tastan



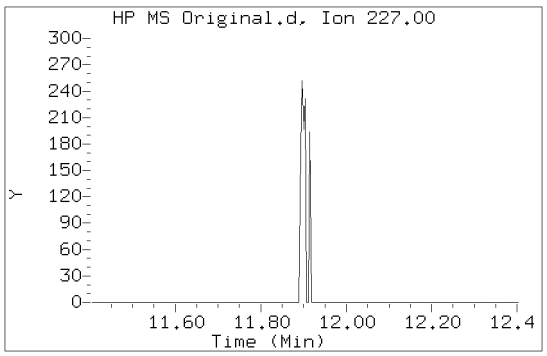
AFTER

MASS
223
AREA
271
HEIGHT
247
24-Apr-2024
13:49
firat
tastan



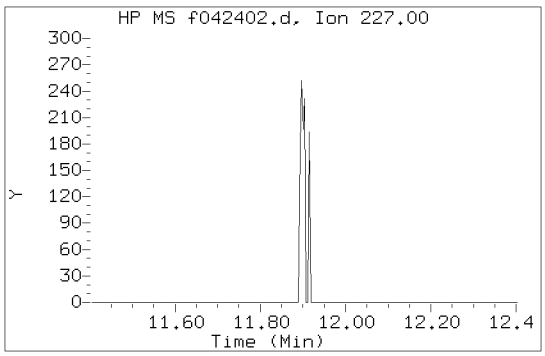
BEFORE

MASS
227
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
227
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

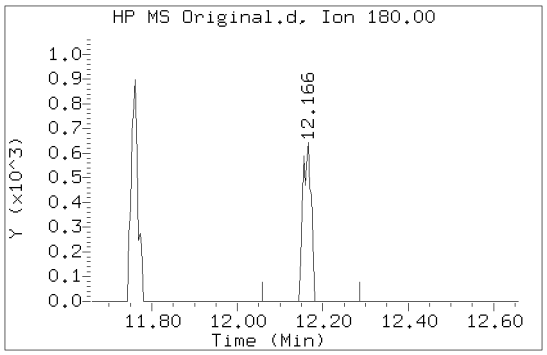


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

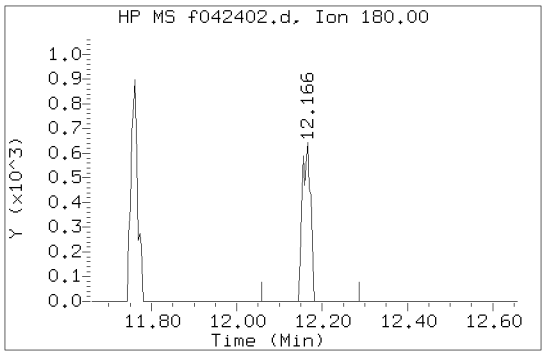
BEFORE

MASS
180
AREA
882
HEIGHT
644
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
180
AREA
882
HEIGHT
644
24-Apr-2024
13:49
firat
tastan



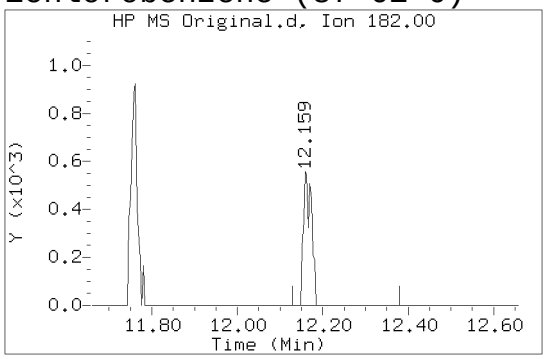
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

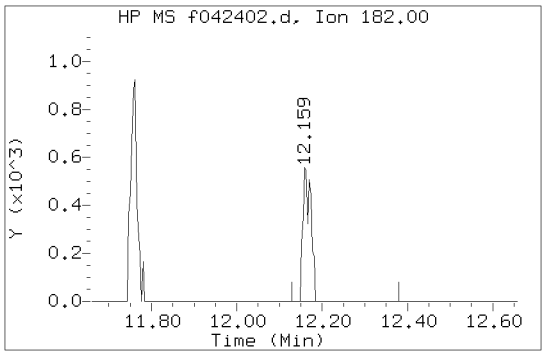
BEFORE

MASS
182
AREA
757
HEIGHT
559
24-Apr-2024
13:49
firat
tastan



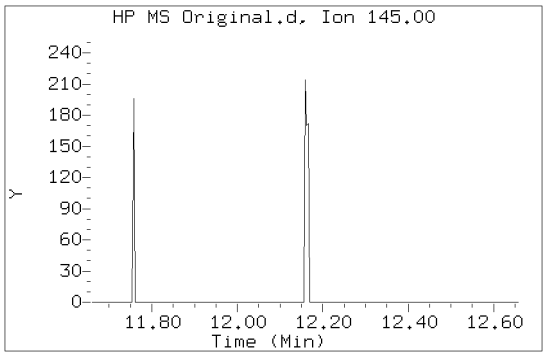
AFTER

MASS
182
AREA
757
HEIGHT
559
24-Apr-2024
13:49
firat
tastan



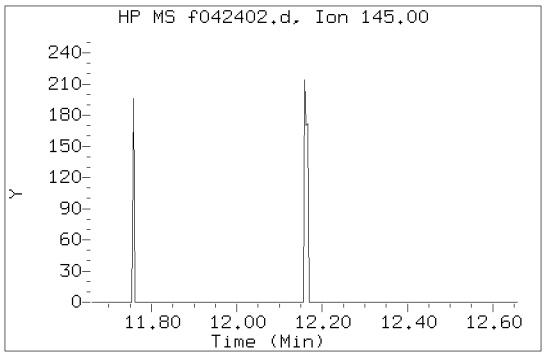
BEFORE

MASS
145
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
145
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

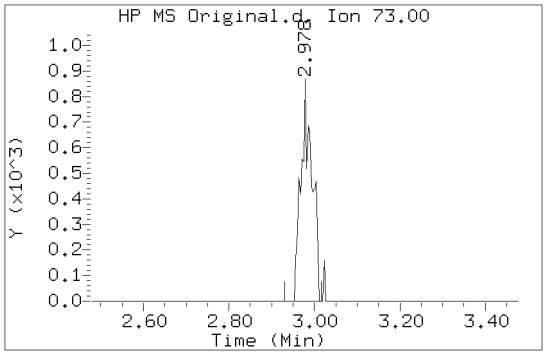


Methyl tert-butyl ether (1634-04-4)

Reason Code:

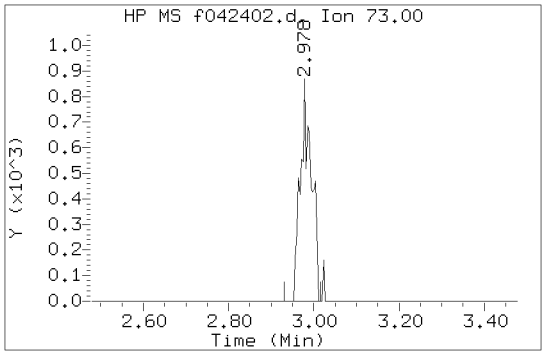
BEFORE

MASS
73
AREA
1605
HEIGHT
869
24-Apr-2024
13:49
firat
tastan



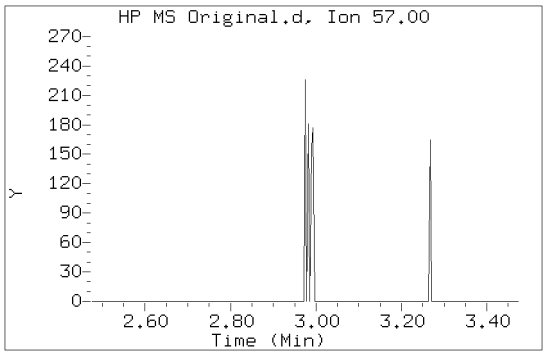
AFTER

MASS
73
AREA
1605
HEIGHT
869
24-Apr-2024
13:49
firat
tastan



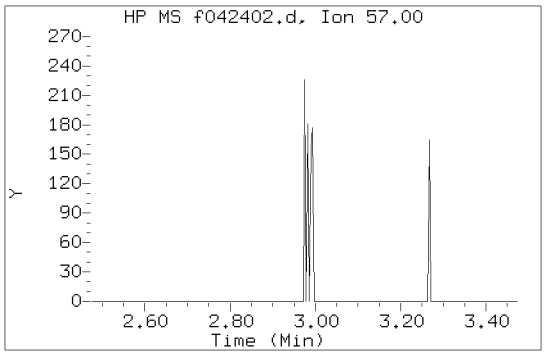
BEFORE

MASS
57
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
57
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



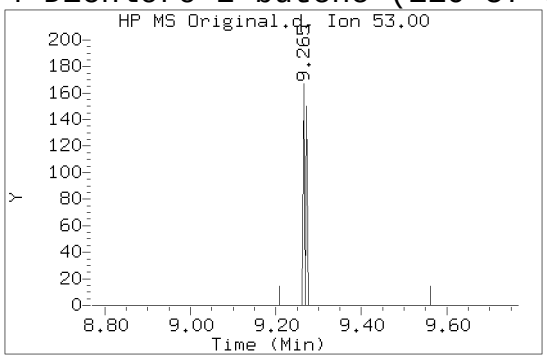
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

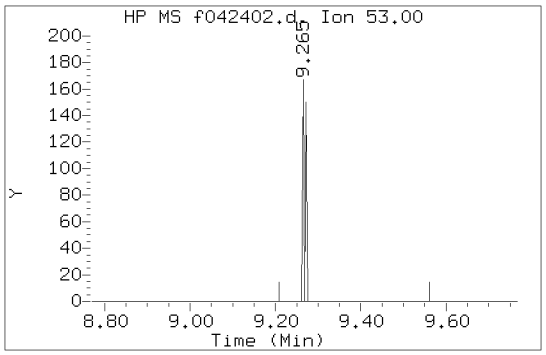
BEFORE

MASS
53
AREA
71
HEIGHT
167
24-Apr-2024
13:49
firat
tastan



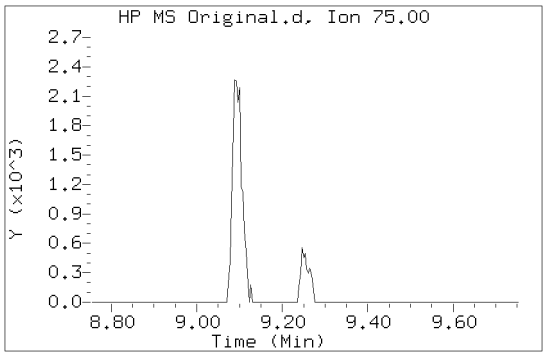
AFTER

MASS
53
AREA
71
HEIGHT
167
24-Apr-2024
13:49
firat
tastan



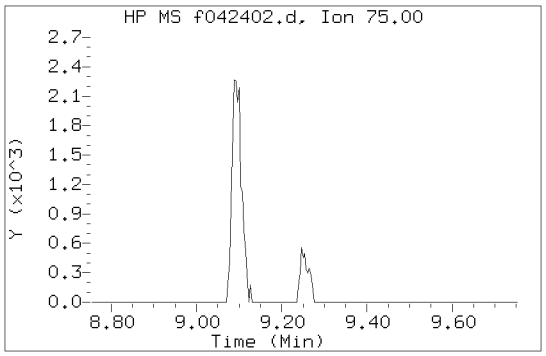
BEFORE

MASS
75
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
75
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

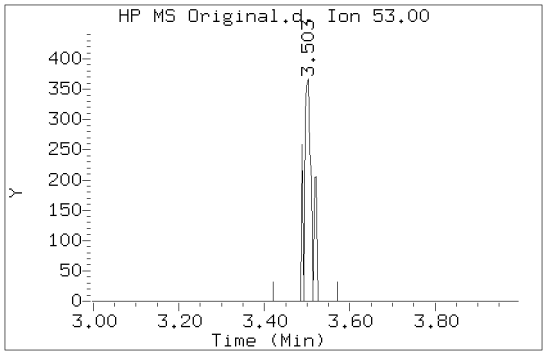


Chloroprene (126-99-8)

Reason Code:

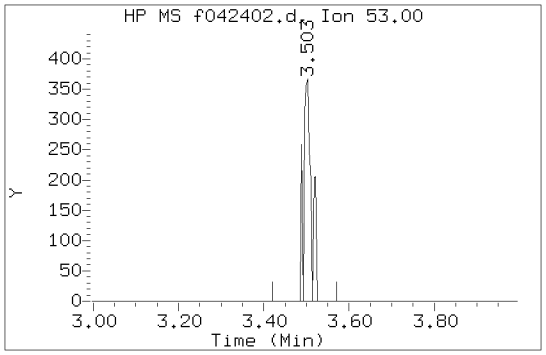
BEFORE

MASS
53
AREA
484
HEIGHT
367
24-Apr-2024
13:49
firat
tastan



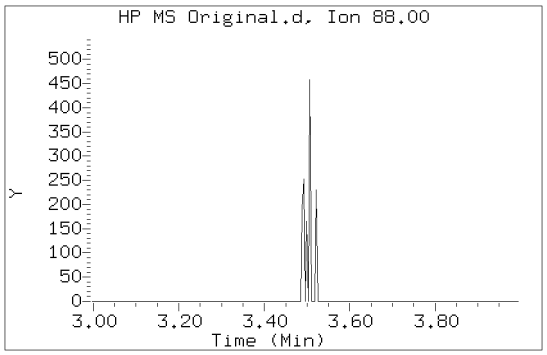
AFTER

MASS
53
AREA
484
HEIGHT
367
24-Apr-2024
13:49
firat
tastan



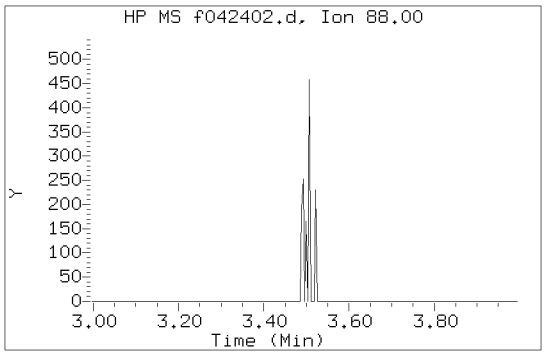
BEFORE

MASS
88
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
88
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



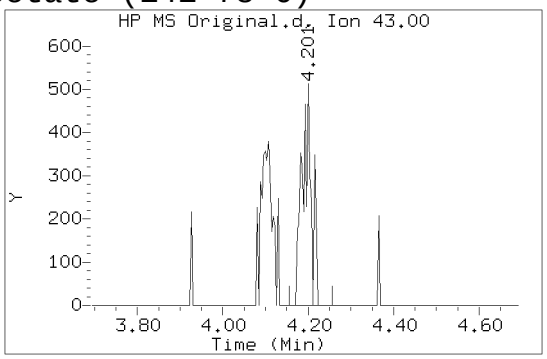
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Ethyl Acetate (141-78-6)

Reason Code:

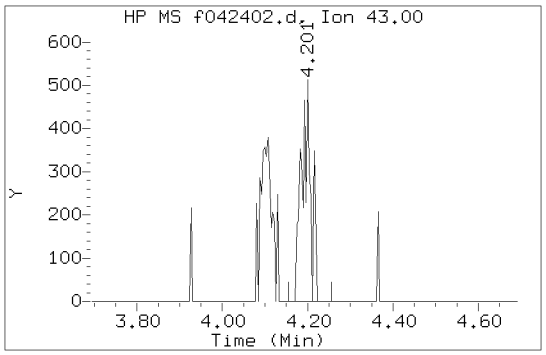
BEFORE

MASS
43
AREA
802
HEIGHT
513
24-Apr-2024
13:49
firat
tastan



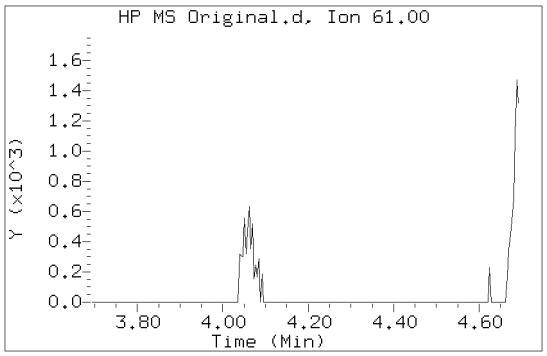
AFTER

MASS
43
AREA
802
HEIGHT
513
24-Apr-2024
13:49
firat
tastan



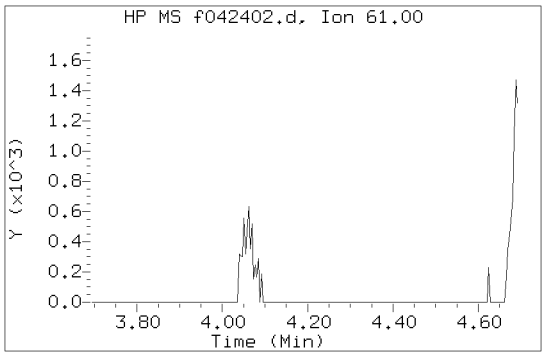
BEFORE

MASS
61
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



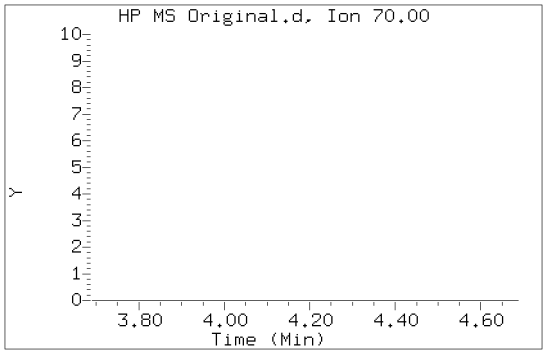
AFTER

MASS
61
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



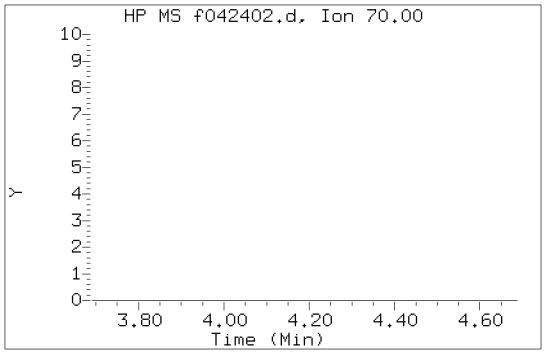
BEFORE

MASS
70
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
70
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

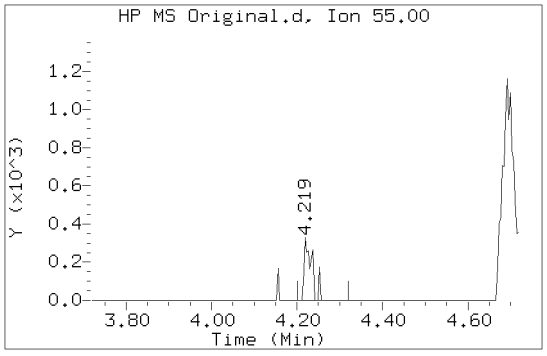


Methyl Acrylate (96-33-3)

Reason Code:

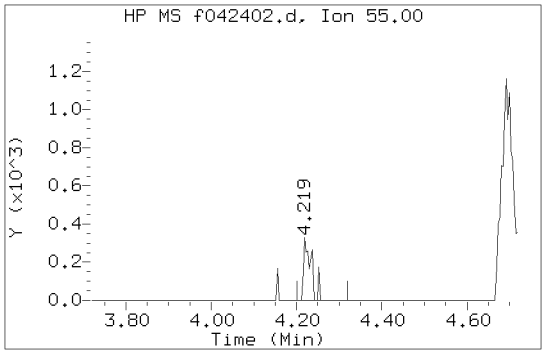
BEFORE

MASS
55
AREA
409
HEIGHT
328
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
55
AREA
409
HEIGHT
328
24-Apr-2024
13:49
firat
tastan



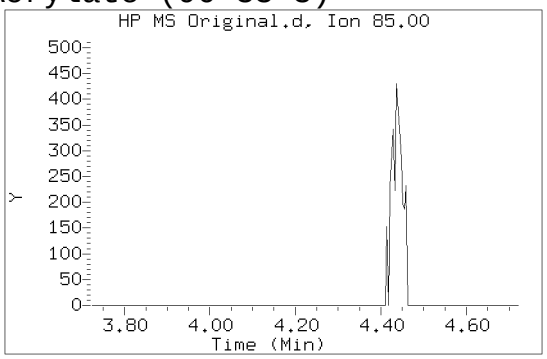
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Methyl Acrylate (96-33-3)

Reason Code:

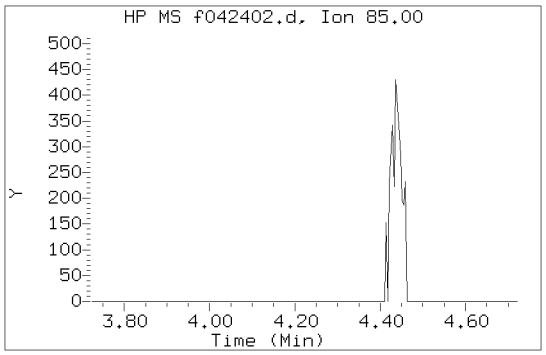
BEFORE

MASS
85
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

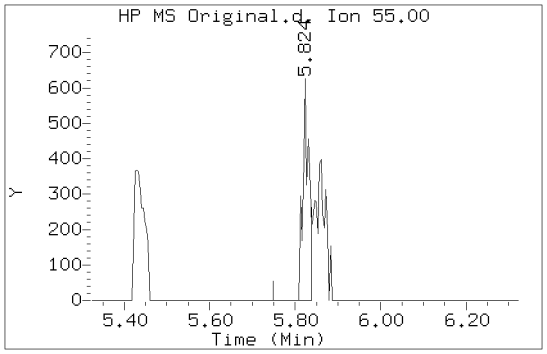


Ethyl Acrylate (140-88-5)

Reason Code:

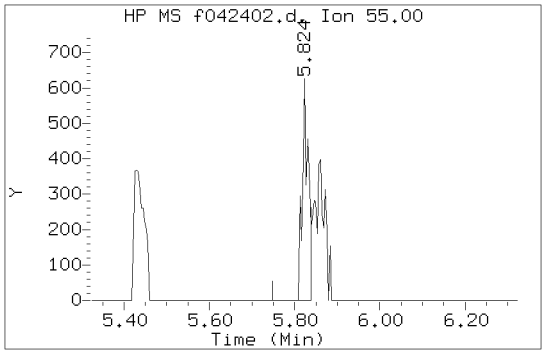
BEFORE

MASS
55
AREA
639
HEIGHT
626
24-Apr-2024
13:49
firat
tastan



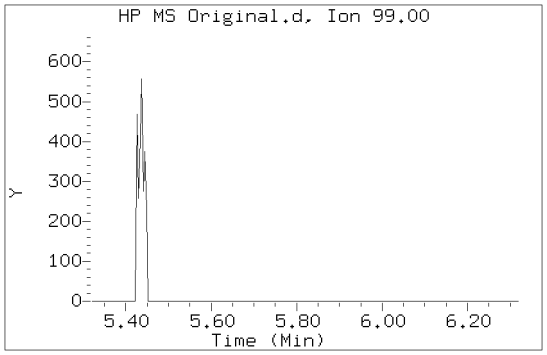
AFTER

MASS
55
AREA
639
HEIGHT
626
24-Apr-2024
13:49
firat
tastan



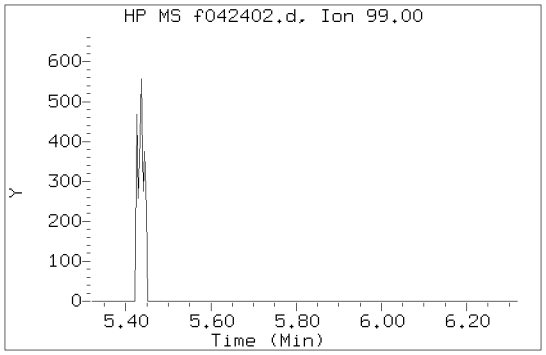
BEFORE

MASS
99
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
99
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

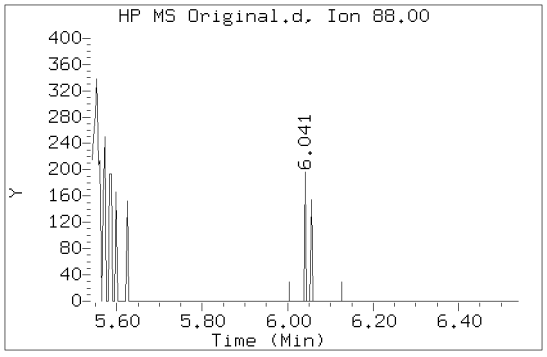


1,4-Dioxane ()

Reason Code:

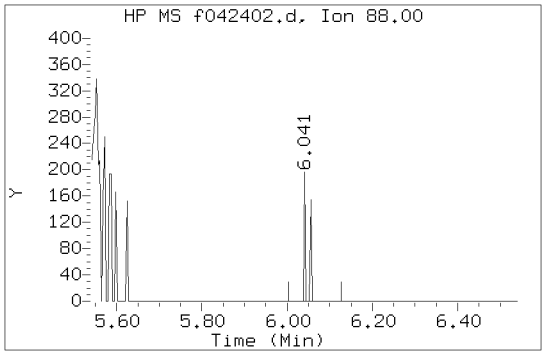
BEFORE

MASS
88
AREA
78
HEIGHT
196
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
88
AREA
78
HEIGHT
196
24-Apr-2024
13:49
firat
tastan



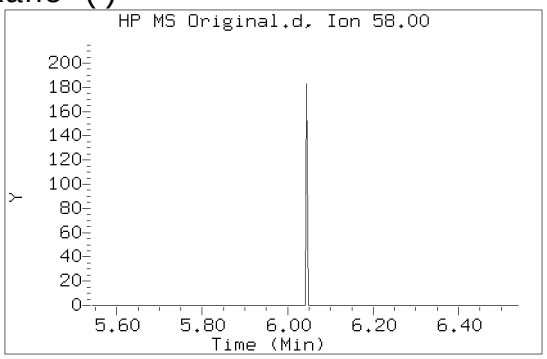
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

1,4-Dioxane ()

Reason Code:

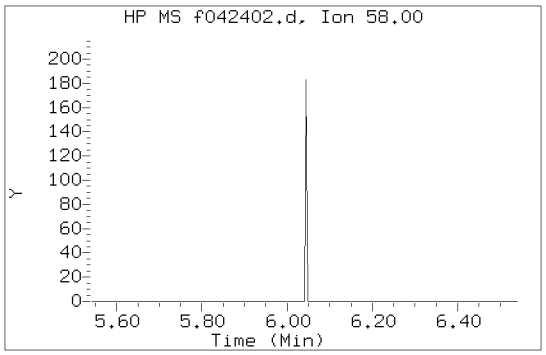
BEFORE

MASS
58
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
58
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

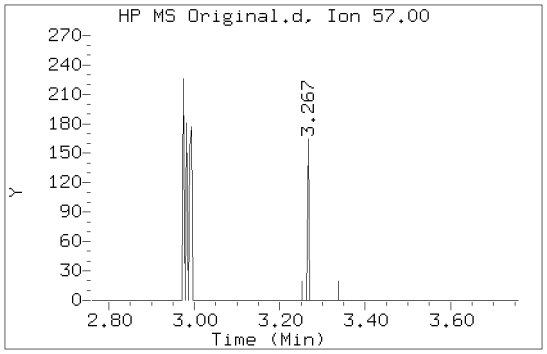


n-Hexane (110-54-3)

Reason Code:

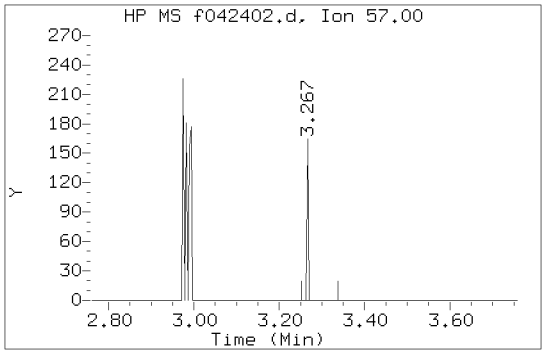
BEFORE

MASS
57
AREA
37
HEIGHT
165
24-Apr-2024
13:49
firat
tastan



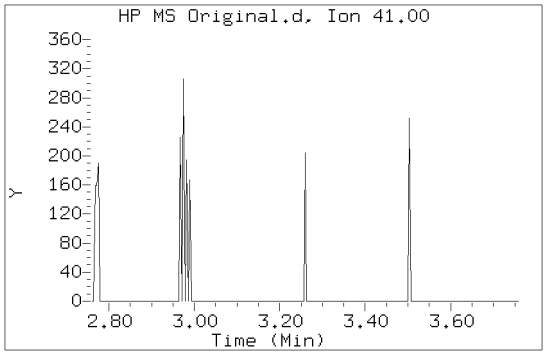
AFTER

MASS
57
AREA
37
HEIGHT
165
24-Apr-2024
13:49
firat
tastan



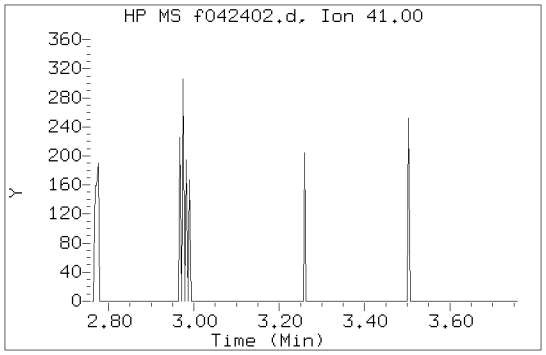
BEFORE

MASS
41
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



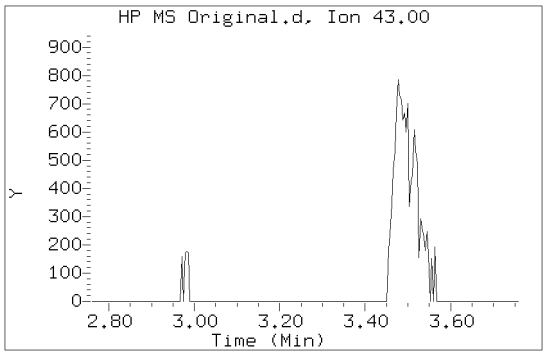
AFTER

MASS
41
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



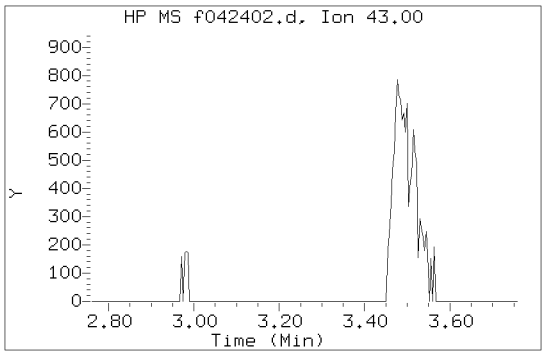
BEFORE

MASS
43
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
43
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



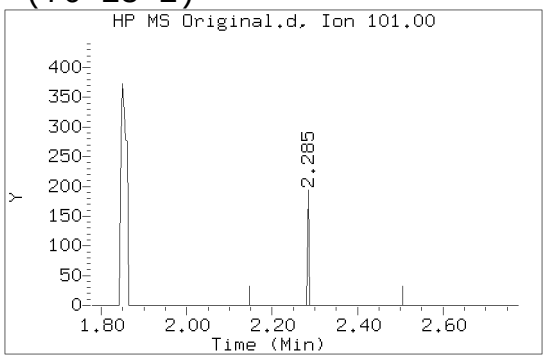
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Freon TF (76-13-1)

Reason Code:

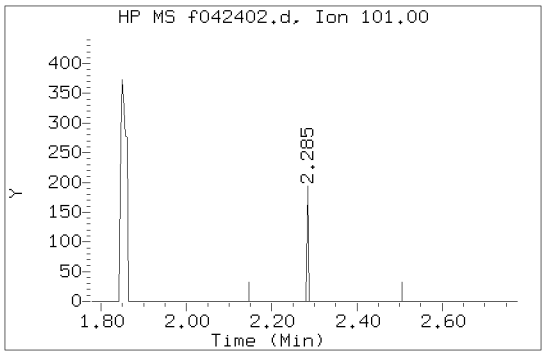
BEFORE

MASS
101
AREA
43
HEIGHT
194
24-Apr-2024
13:49
firat
tastan



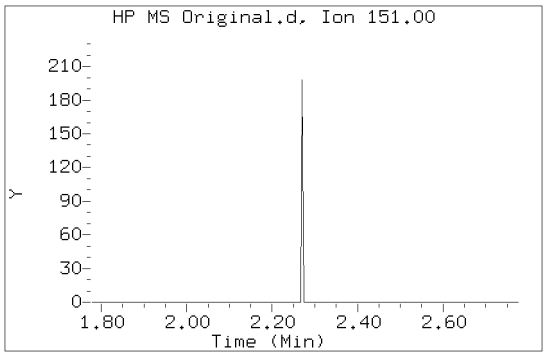
AFTER

MASS
101
AREA
43
HEIGHT
194
24-Apr-2024
13:49
firat
tastan



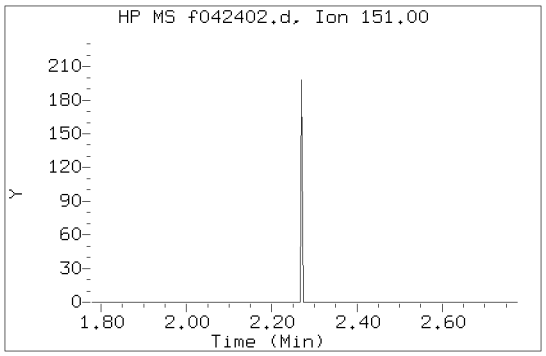
BEFORE

MASS
151
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
151
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

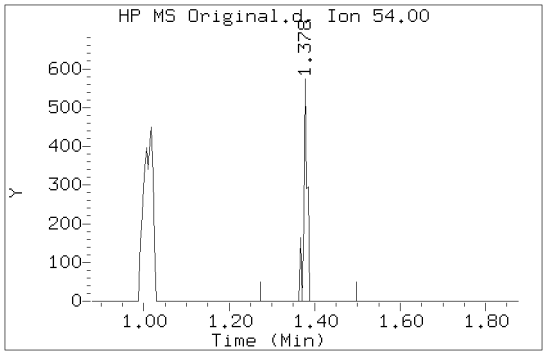


1,3-Butadiene (106-99-0)

Reason Code:

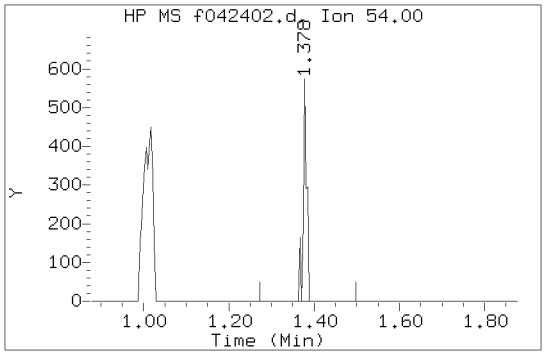
BEFORE

MASS
54
AREA
344
HEIGHT
574
24-Apr-2024
13:49
firat
tastan



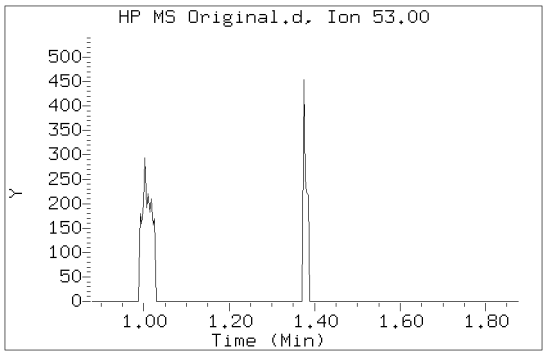
AFTER

MASS
54
AREA
344
HEIGHT
574
24-Apr-2024
13:49
firat
tastan



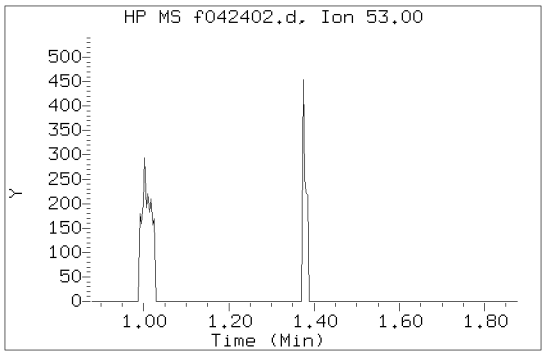
BEFORE

MASS
53
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
53
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



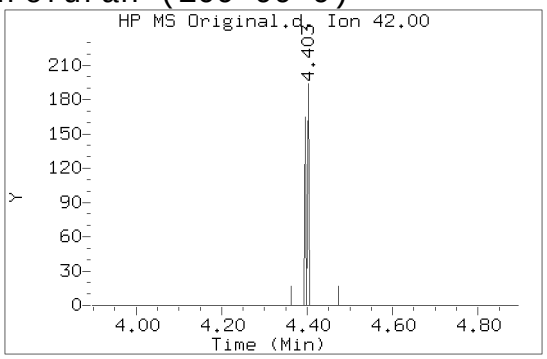
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Tetrahydrofuran (109-99-9)

Reason Code:

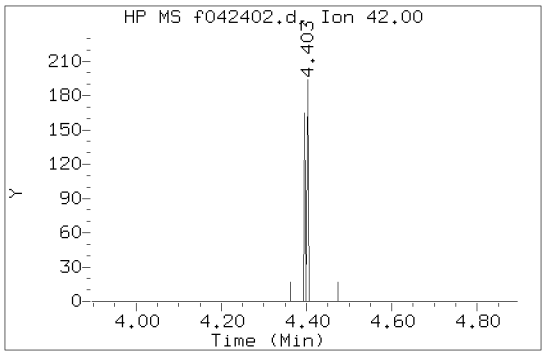
BEFORE

MASS
42
AREA
80
HEIGHT
194
24-Apr-2024
13:49
firat
tastan



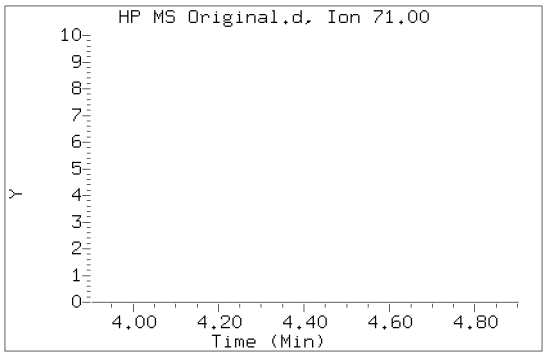
AFTER

MASS
42
AREA
80
HEIGHT
194
24-Apr-2024
13:49
firat
tastan



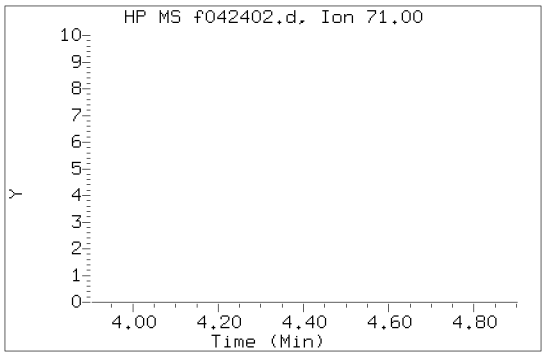
BEFORE

MASS
71
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
71
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

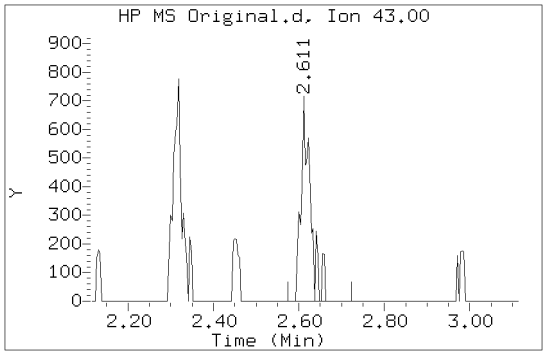


Methyl Acetate (79-20-9)

Reason Code:

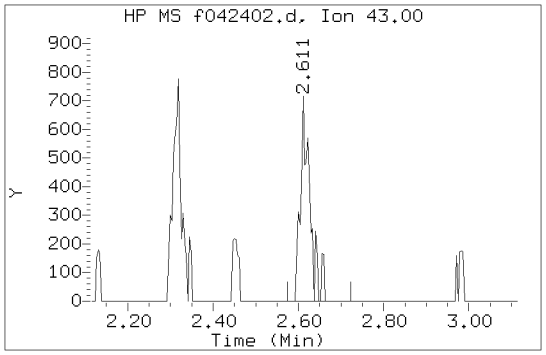
BEFORE

MASS
43
AREA
1145
HEIGHT
717
24-Apr-2024
13:49
firat
tastan



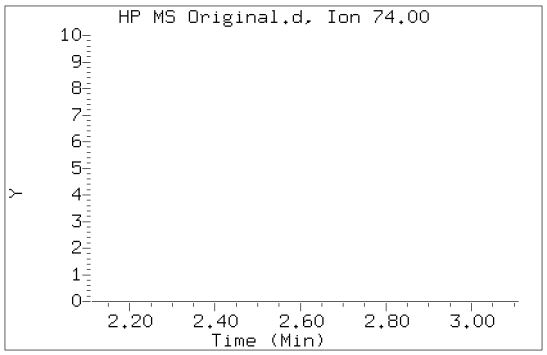
AFTER

MASS
43
AREA
1145
HEIGHT
717
24-Apr-2024
13:49
firat
tastan



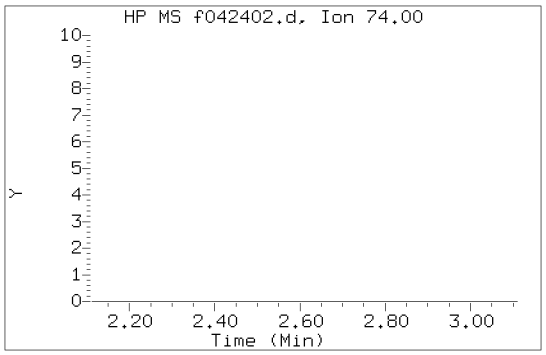
BEFORE

MASS
74
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
74
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



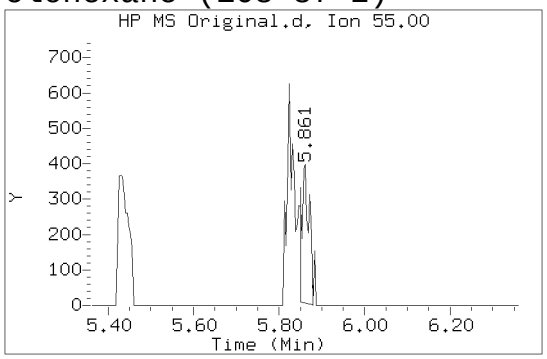
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Methylcyclohexane (108-87-2)

Reason Code:

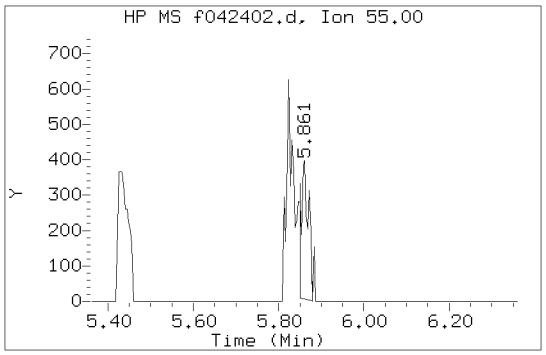
BEFORE

MASS
55
AREA
485
HEIGHT
392
24-Apr-2024
13:49
firat
tastan



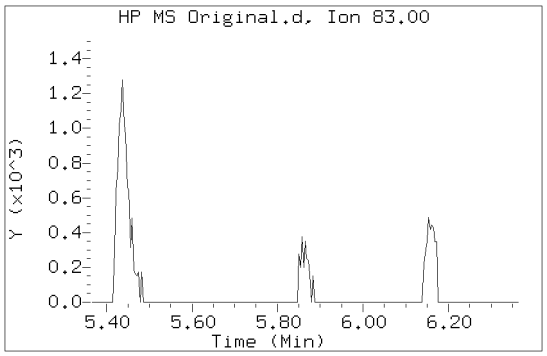
AFTER

MASS
55
AREA
485
HEIGHT
392
24-Apr-2024
13:49
firat
tastan



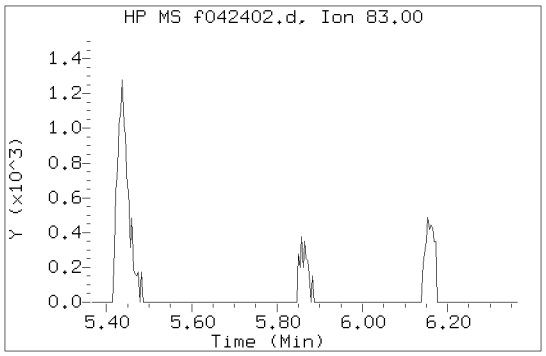
BEFORE

MASS
83
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
83
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

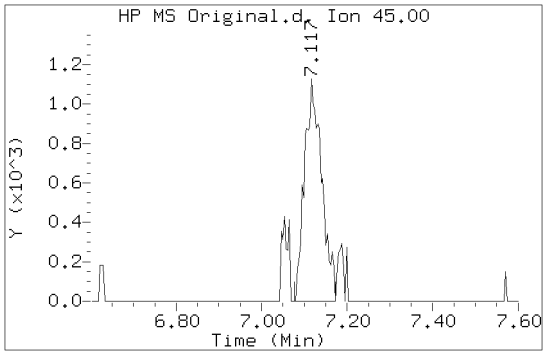


4-Methyl-2-pentanol (108-11-2)

Reason Code:

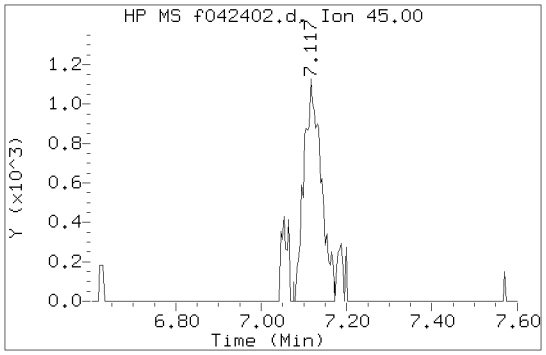
BEFORE

MASS
45
AREA
3181
HEIGHT
1128
24-Apr-2024
13:49
firat
tastan



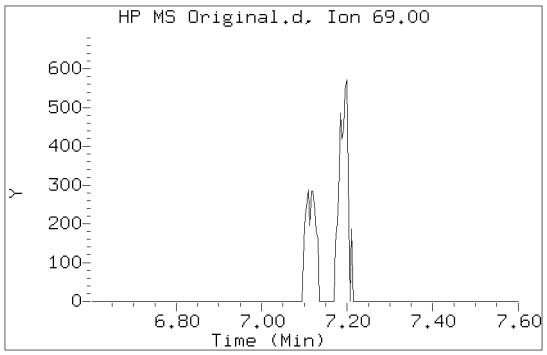
AFTER

MASS
45
AREA
3181
HEIGHT
1128
24-Apr-2024
13:49
firat
tastan



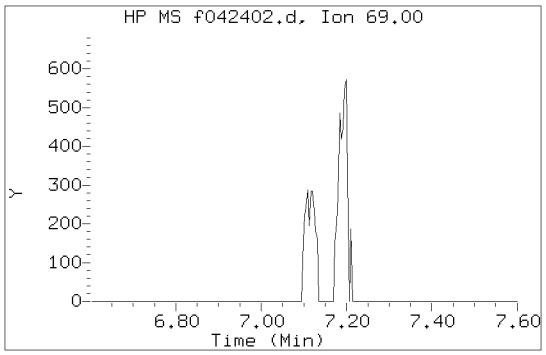
BEFORE

MASS
69
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
69
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



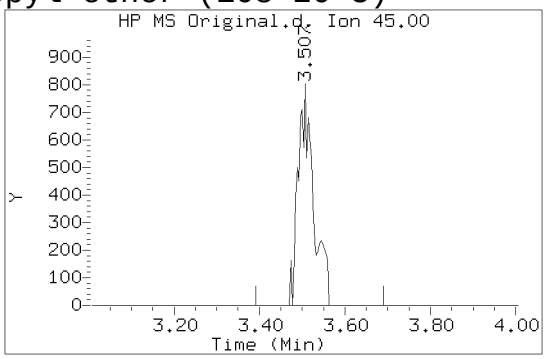
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Diisopropyl ether (108-20-3)

Reason Code:

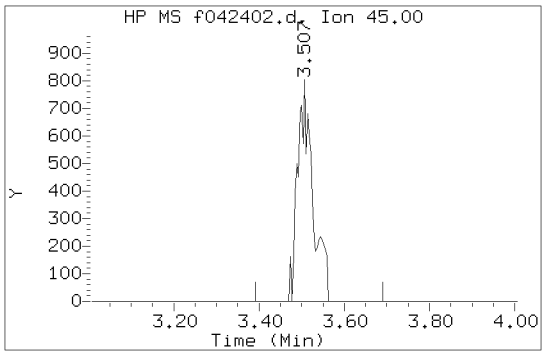
BEFORE

MASS
45
AREA
2028
HEIGHT
804
24-Apr-2024
13:49
firat
tastan



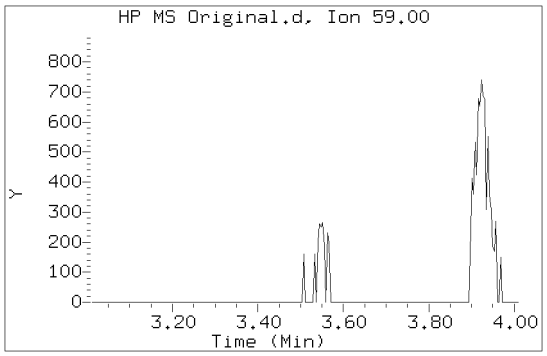
AFTER

MASS
45
AREA
2028
HEIGHT
804
24-Apr-2024
13:49
firat
tastan



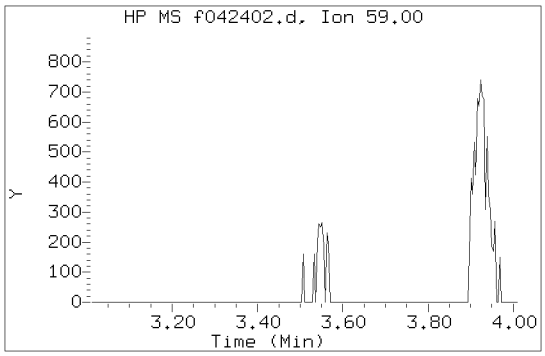
BEFORE

MASS
59
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



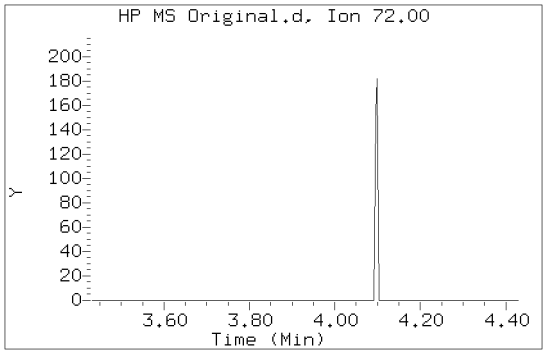
AFTER

MASS
59
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



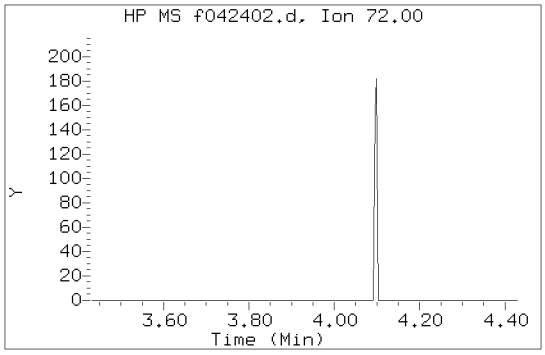
BEFORE

MASS
72
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
72
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

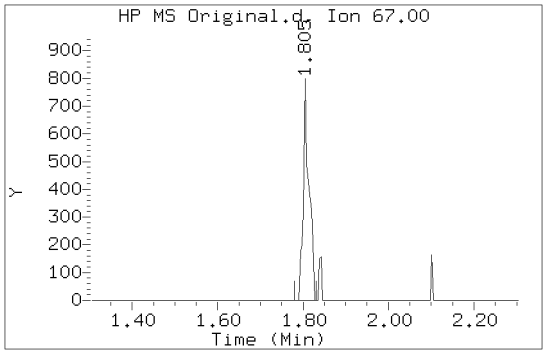


Dichlorofluoromethane (75-43-4)

Reason Code:

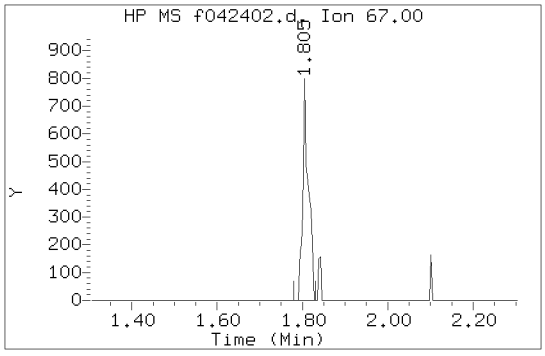
BEFORE

MASS
67
AREA
748
HEIGHT
799
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
67
AREA
748
HEIGHT
799
24-Apr-2024
13:49
firat
tastan



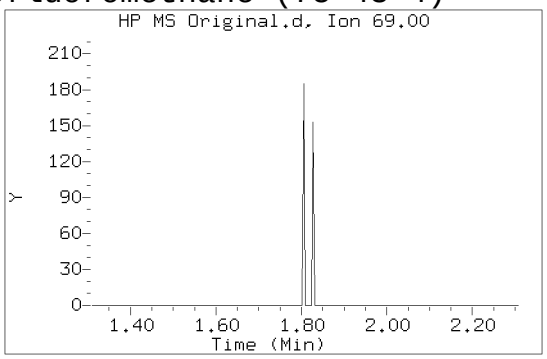
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Dichlorofluoromethane (75-43-4)

Reason Code:

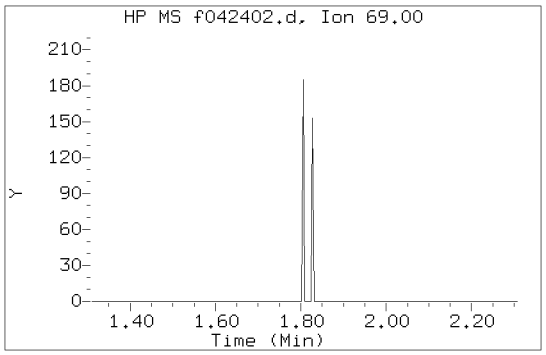
BEFORE

MASS
69
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



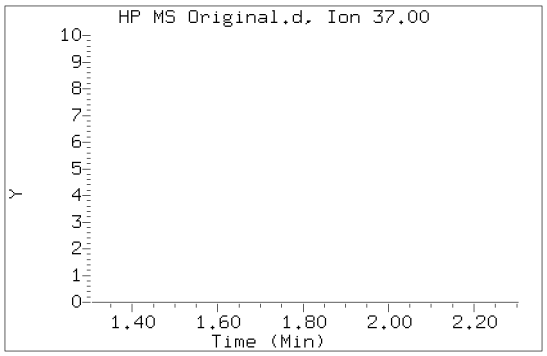
AFTER

MASS
69
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



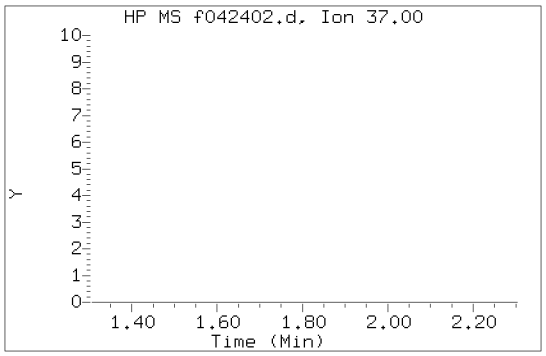
BEFORE

MASS
37
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
37
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

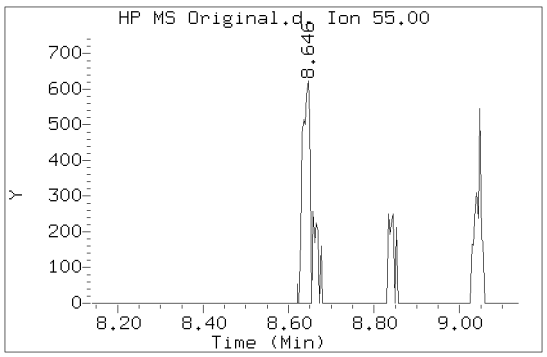


Butyl acrylate (141-32-2)

Reason Code:

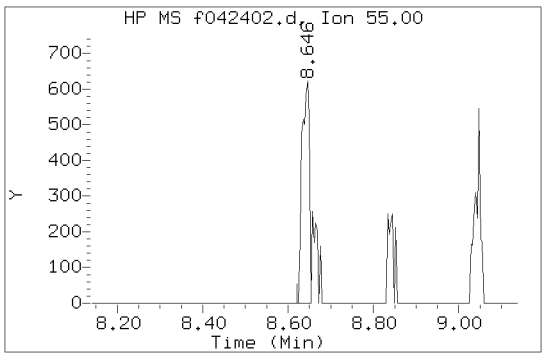
BEFORE

MASS
55
AREA
763
HEIGHT
623
24-Apr-2024
13:49
firat
tastan



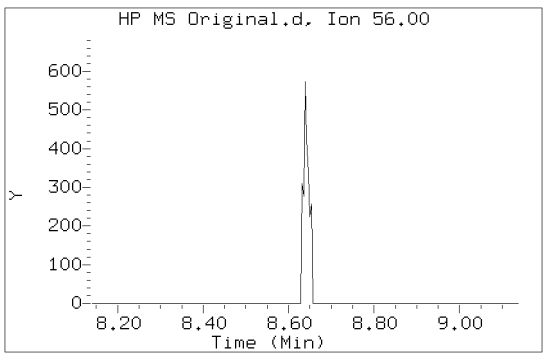
AFTER

MASS
55
AREA
763
HEIGHT
623
24-Apr-2024
13:49
firat
tastan



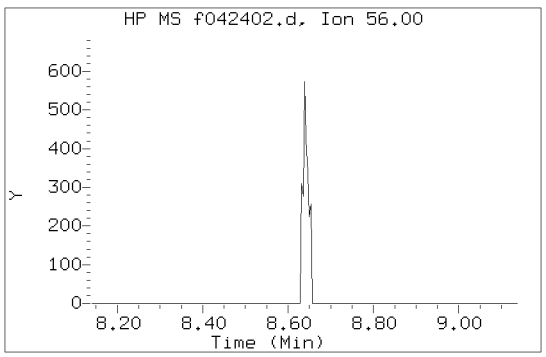
BEFORE

MASS
56
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
56
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



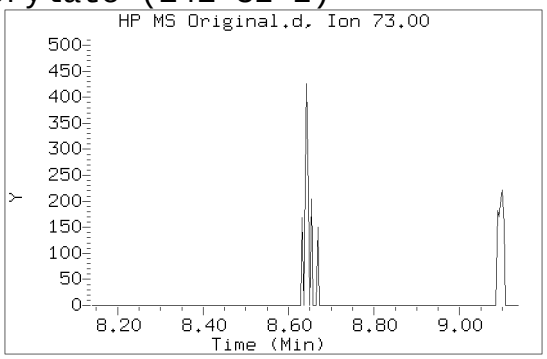
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Butyl acrylate (141-32-2)

Reason Code:

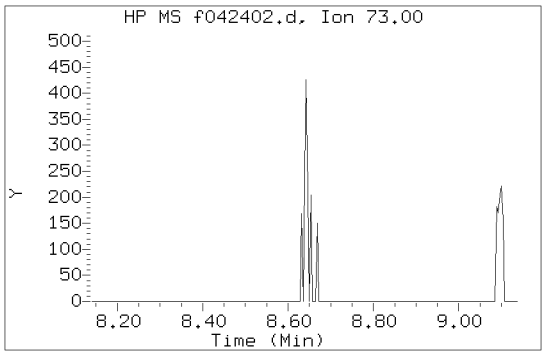
BEFORE

MASS
73
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
73
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

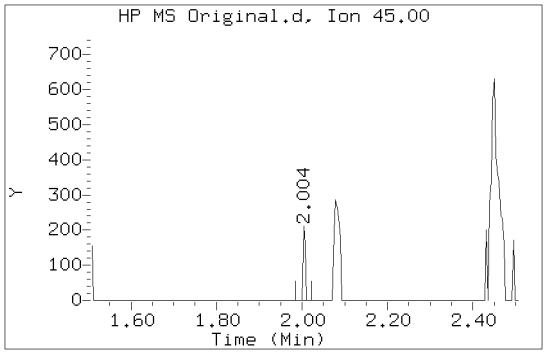


Ethanol (64-17-5)

Reason Code:

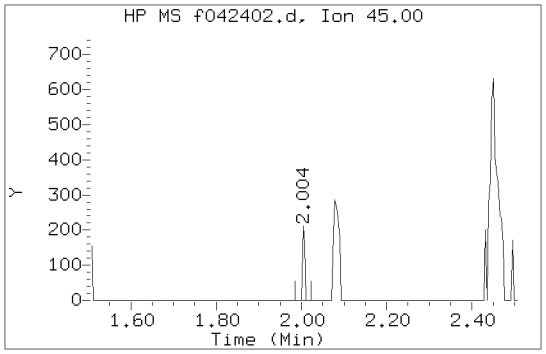
BEFORE

MASS
45
AREA
83
HEIGHT
211
24-Apr-2024
13:49
firat
tastan



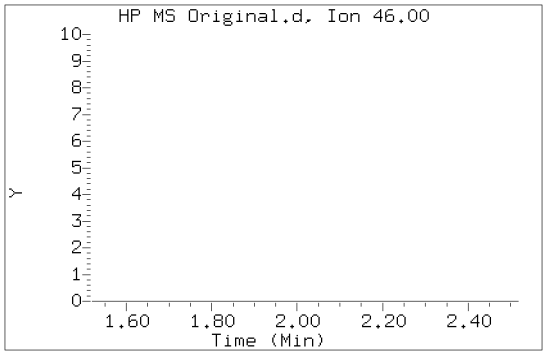
AFTER

MASS
45
AREA
83
HEIGHT
211
24-Apr-2024
13:49
firat
tastan



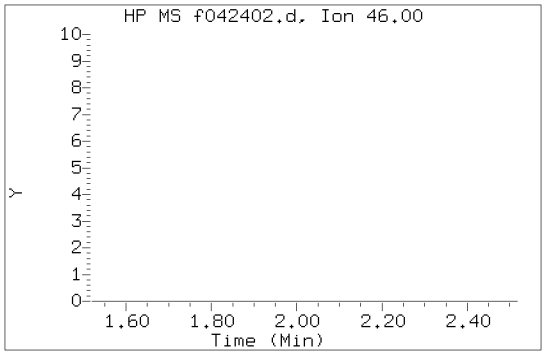
BEFORE

MASS
46
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



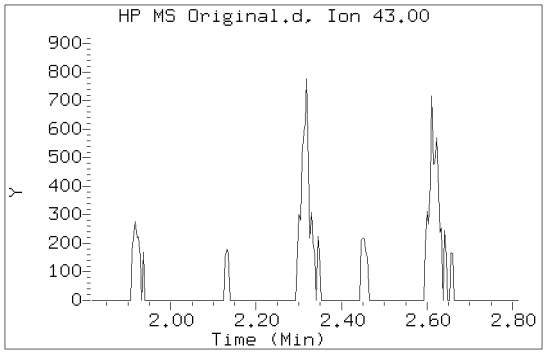
AFTER

MASS
46
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



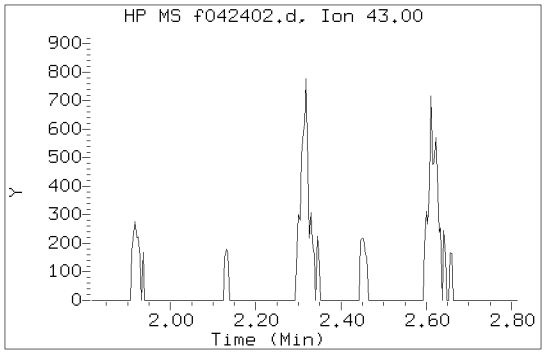
BEFORE

MASS
43
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
43
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

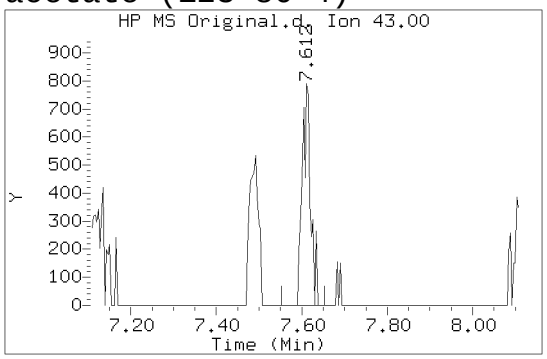


Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

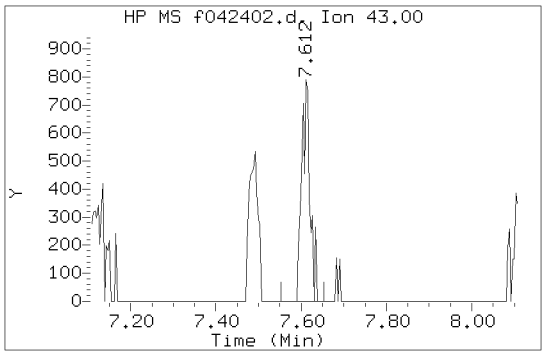
n-Butyl acetate (123-86-4)

Reason Code:

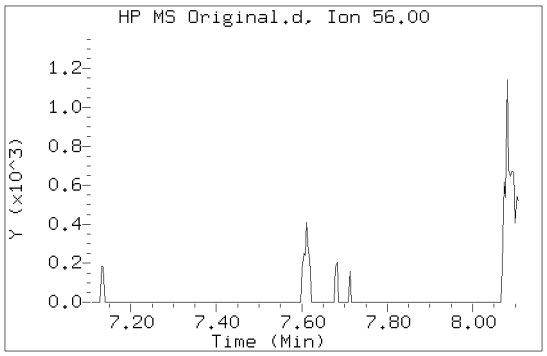
BEFORE
MASS
43
AREA
1091
HEIGHT
790
24-Apr-2024
13:49
firat
tastan



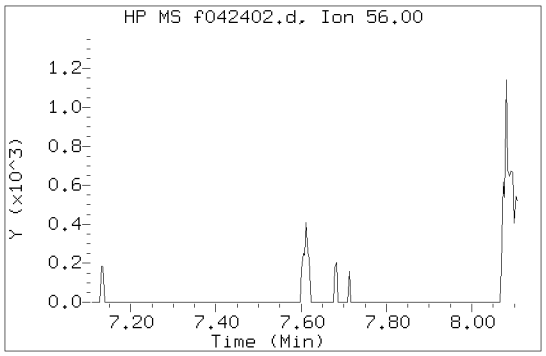
AFTER
MASS
43
AREA
1091
HEIGHT
790
24-Apr-2024
13:49
firat
tastan



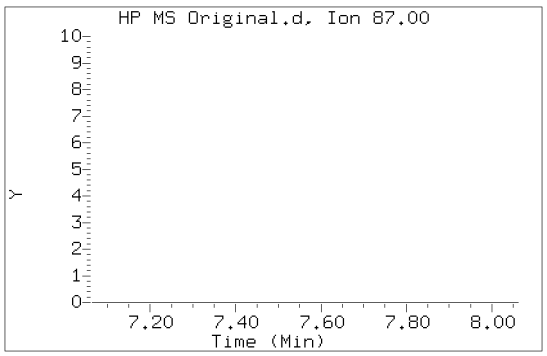
BEFORE
MASS
56
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



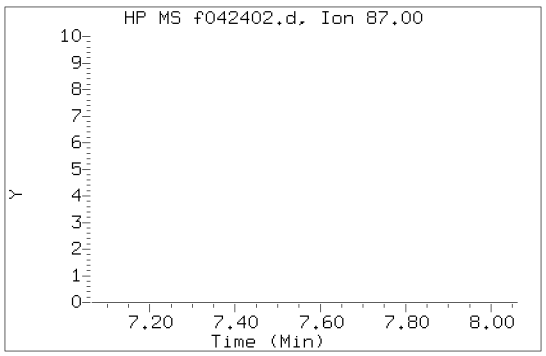
AFTER
MASS
56
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



BEFORE
MASS
87
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



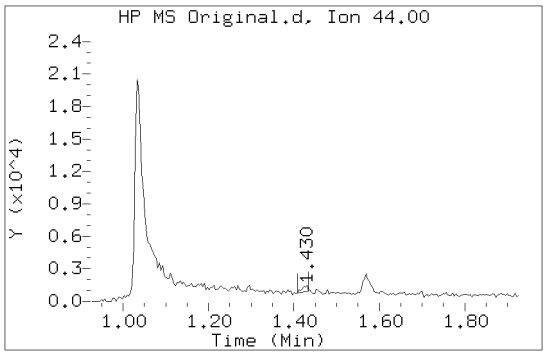
AFTER
MASS
87
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



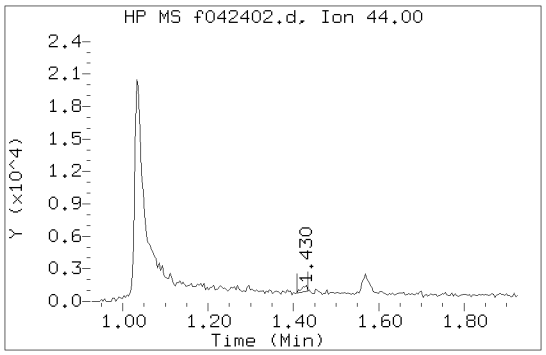
Acetaldehyde (75-07-0)

Reason Code:

BEFORE
MASS
44
AREA
497
HEIGHT
585
24-Apr-2024
13:49
firat
tastan



AFTER
MASS
44
AREA
497
HEIGHT
585
24-Apr-2024
13:49
firat
tastan



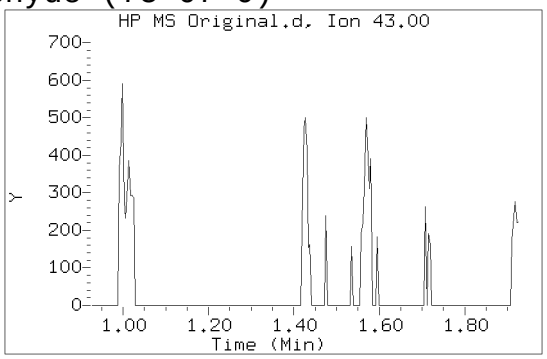
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Acetaldehyde (75-07-0)

Reason Code:

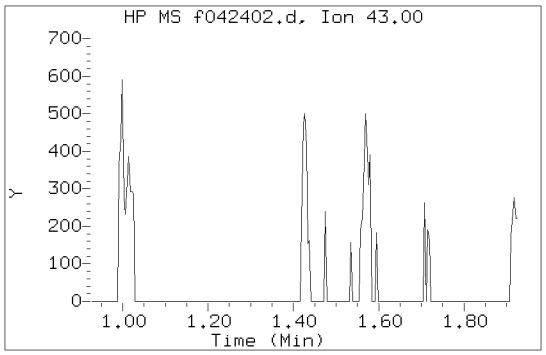
BEFORE

MASS
43
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



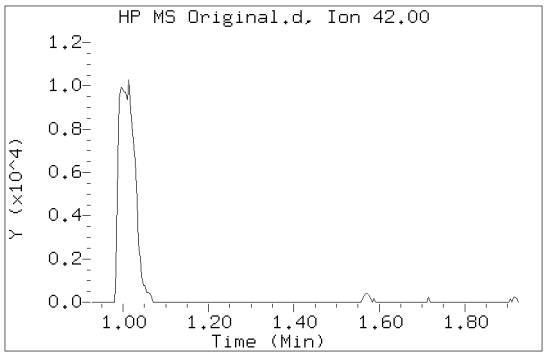
AFTER

MASS
43
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



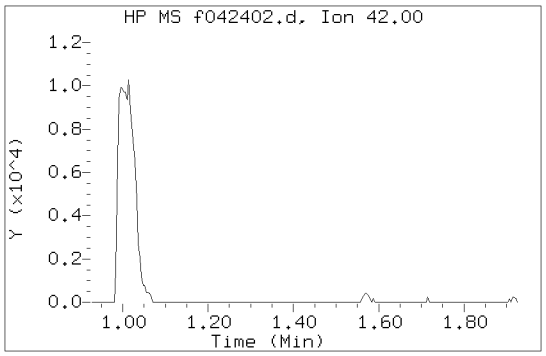
BEFORE

MASS
42
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
42
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

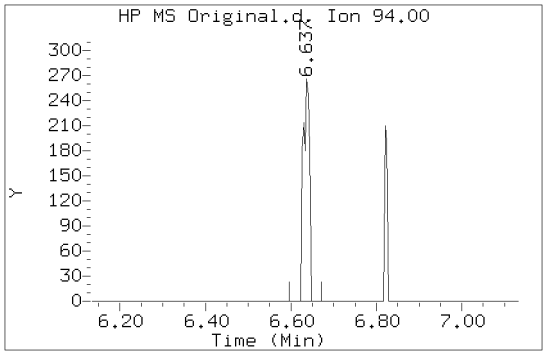


Dimethyl Disulfide (624-92-0)

Reason Code:

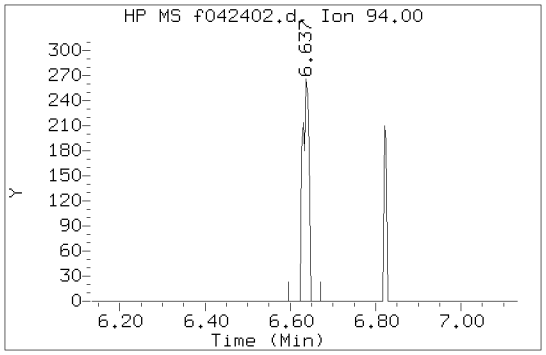
BEFORE

MASS
94
AREA
284
HEIGHT
266
24-Apr-2024
13:49
firat
tastan



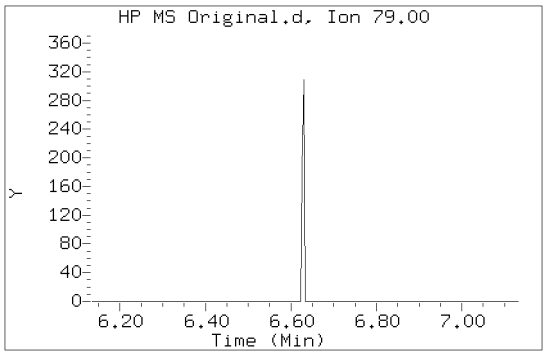
AFTER

MASS
94
AREA
284
HEIGHT
266
24-Apr-2024
13:49
firat
tastan



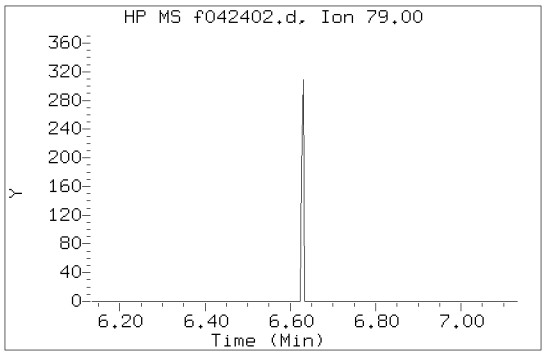
BEFORE

MASS
79
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
79
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



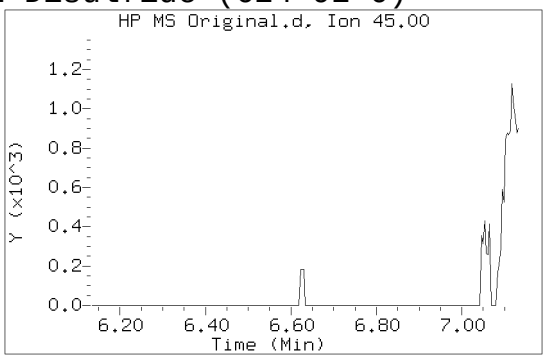
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042402.d
Inj Date : 24-APR-2024 09:54
InstruID : voa10.i
LabSampID : VSTD00.5

Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE

MASS
45
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
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24-Apr-2024
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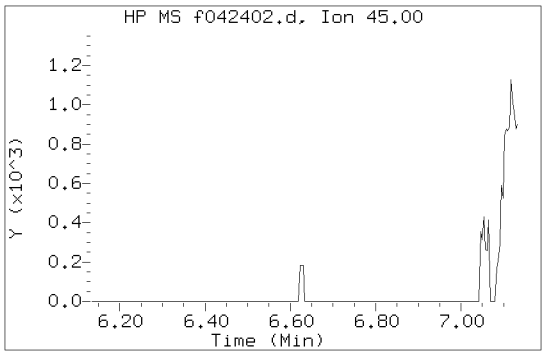

2-Ethylhexyl Acrylate (103-11-7)

Reason Code:

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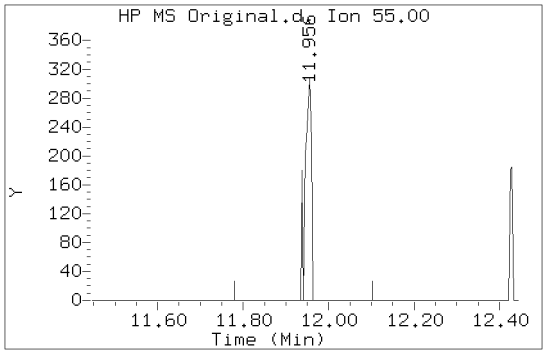

AFTER

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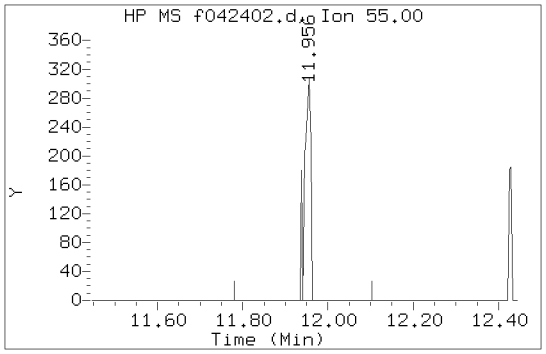


Data File: \\nahstws005\Target\chem\voa10.i\F240424.b\F042403.D Page 1
Report Date: 24-Apr-2024 13:49

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa10.i\F240424.b\F042403.D
Lab Smp Id: VSTD001 Client Smp ID: VSTD001
Inj Date : 24-APR-2024 10:15
Operator : TS Inst ID: voa10.i
Smp Info : VSTD001;VSTD001;1;3
Misc Info : V10;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa10.i\F240424.b\8260W.m
Meth Date : 24-Apr-2024 13:49 voa10.i Quant Type: ISTD
Cal Date : 24-APR-2024 09:54 Cal File: F042402.D
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.699	4.699	(1.000)	189038	50.0000	
2	Dichlorodifluoromethane	85	1.149	1.149	(0.245)	1055	1.00000	1.82(aM)
3	Chloromethane	50	1.284	1.284	(0.273)	1520	1.00000	0.93(a)
4	Propionitrile	54	4.155	4.155	(0.884)	2121	10.0000	9.59(aM)
5	Vinyl Chloride	62	1.351	1.351	(0.288)	1332	1.00000	2.18(a)
6	Bromomethane	94	1.580	1.580	(0.336)	414	1.00000	3.60(aM)
7	Chloroethane	64	1.662	1.662	(0.354)	910	1.00000	1.02(aM)
8	Trichlorofluoromethane	101	1.850	1.850	(0.394)	1500	1.00000	1.45(a)
9	Acrolein	56	3.169	3.169	(0.675)	647	2.00000	7.41(a)
10	Acetone	43	2.311	2.311	(0.492)	1482	2.00000	(aM)
11	1,1-Dichloroethene	96	2.266	2.266	(0.482)	1173	1.00000	1.22(aM)
12	Isobutyl Alcohol	43	5.164	5.164	(1.099)	3897	20.0000	17.05(Ta)
13	Acetonitrile	39	2.581	2.581	(0.549)	1787	10.0000	8.37(aM)
14	Allyl Chloride	41	2.581	2.581	(0.549)	3937	1.00000	0.98(aM)
15	Iodomethane	142	2.390	2.390	(0.509)	822	2.00000	7.54(T)
16	Acrylonitrile	53	2.941	2.941	(0.626)	882	2.00000	0.88(a)
17	Methylene Chloride	84	2.697	2.697	(0.574)	2629	1.00000	1.19(a)
18	Methyl tert-butyl ether	73	2.978	2.978	(0.634)	4067	1.00000	0.98(a)
19	Carbon Disulfide	76	2.446	2.446	(0.521)	7823	2.00000	2.02(aM)
20	trans-1,2-Dichloroethene	96	2.963	2.963	(0.631)	1131	1.00000	0.86(Ta)

21 Vinyl Acetate	43	4.204	4.204 (0.895)	1629	2.00000	1.94(aM)
22 1,1-Dichloroethane	63	3.394	3.394 (0.722)	2445	1.00000	0.97(aM)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.499	3.499	(0.745)	1690	1.00000	1.44(a)
24	2-Butanone	43	4.095	4.095	(0.872)	1140	2.00000	1.66(aM)
25	Methacrylonitrile	41	4.335	4.335	(0.923)	1081	1.00000	0.66(aM)
26	2,2-Dichloropropane	77	4.050	4.050	(0.862)	1508	1.00000	1.75(aM)
27	cis-1,2-Dichloroethene	96	4.065	4.065	(0.865)	1282	1.00000	0.84(a)
28	Chloroform	83	4.440	4.440	(0.945)	2242	1.00000	0.91(a)
29	Bromochloromethane	128	4.328	4.328	(0.921)	754	1.00000	(a)
$ 30	Dibromofluoromethane	113	4.605	4.605	(0.980)	1590	1.00000	1.12(a)
31	1,1,1-Trichloroethane	97	4.620	4.620	(0.983)	1815	1.00000	1.40(a)
32	1,1-Dichloropropene	75	4.811	4.811	(0.885)	2431	1.00000	1.16(a)
33	1,2-Dichloroethane	62	5.036	5.036	(0.926)	1732	1.00000	0.88(a)
34	Carbon Tetrachloride	117	4.807	4.807	(0.884)	2016	1.00000	1.12(a)
$ 35	1,2-Dichloroethane-d4	65	4.961	4.961	(1.056)	1934	1.00000	1.17(Ta)
* 36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	247855	50.0000	
37	Benzene	78	5.021	5.021	(0.923)	5906	1.00000	0.98(a)
38	Trichloroethene	130	5.681	5.681	(1.045)	1790	1.00000	1.06(a)
39	Bromodichloromethane	83	6.161	6.161	(1.133)	1602	1.00000	0.90(aM)
40	Methyl Methacrylate	41	6.048	6.048	(1.287)	1316	1.00000	0.68(aM)
42	1,2-Dichloropropane	63	5.894	5.894	(1.084)	1404	1.00000	0.91(aM)
43	2-Nitropropane	43	6.371	6.371	(1.356)	287	1.00000	3.17(TaM)
44	Dibromomethane	93	5.996	5.996	(1.103)	809	1.00000	0.94(a)
45	4-Methyl-2-Pentanone	43	6.742	6.742	(0.834)	2688	2.00000	0.43(a)
46	cis-1,3-Dichloropropene	75	6.584	6.584	(1.211)	1603	1.00000	0.82(aM)
* 47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	218354	50.0000	
$ 48	Toluene-d8	98	6.824	6.824	(0.844)	7237	1.00000	0.31(a)
49	Ethyl Methacrylate	69	7.192	7.192	(1.323)	2181	1.00000	0.96(a)
50	Toluene	91	6.880	6.880	(0.851)	6252	1.00000	0.26(a)
51	trans-1,3-Dichloropropene	75	7.083	7.083	(1.303)	1091	1.00000	2.79(aM)
52	2-Hexanone	43	7.480	7.480	(0.925)	1859	2.00000	1.03(Ta)
53	1,1,2-Trichloroethane	83	7.244	7.244	(0.896)	1056	1.00000	0.25(a)
54	1,3-Dichloropropane	76	7.383	7.383	(0.913)	2149	1.00000	0.25(aM)
55	Dibromochloromethane	129	7.581	7.581	(0.938)	1271	1.00000	0.23(a)
56	Tetrachloroethene	164	7.368	7.368	(0.911)	1225	1.00000	0.24(a)
57	1,2-Dibromoethane	107	7.675	7.675	(0.949)	1217	1.00000	0.29(a)
58	1-Chlorohexane	55	8.106	8.106	(1.491)	3143	1.00000	1.96(a)
59	Chlorobenzene	112	8.106	8.106	(1.003)	4223	1.00000	0.27(a)
60	1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	1152	1.00000	0.23(a)
61	Ethylbenzene	106	8.207	8.207	(1.015)	1950	1.00000	0.25(aM)
62	m,p-Xylenes	106	8.316	8.316	(1.029)	4937	2.00000	0.50(a)
63	o-Xylene	106	8.653	8.653	(1.070)	2547	1.00000	0.26(aM)
64	Styrene	104	8.661	8.661	(1.071)	3942	1.00000	0.24(a)
66	Bromoform	173	8.811	8.811	(1.090)	795	1.00000	0.78(aM)
67	Isopropylbenzene	105	8.968	8.968	(1.109)	6025	1.00000	0.26(a)
68	1,1,2,2-Tetrachloroethane	83	9.216	9.216	(0.915)	1687	1.00000	0.89(aM)
$ 69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	4803	1.00000	0.58(a)
* 70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	118718	50.0000	
71	1,2,3-Trichloropropane	75	9.250	9.250	(0.918)	1742	1.00000	0.91(aM)
72	trans-1,4-Dichloro-2-butene	53	9.276	9.276	(1.147)	207	1.00000	0.54(aM)
73	n-Propylbenzene	91	9.317	9.317	(0.925)	6399	1.00000	0.92(a)
74	Bromobenzene	156	9.216	9.216	(0.915)	1848	1.00000	0.93(a)
75	1,3,5-Trimethylbenzene	105	9.474	9.474	(0.941)	4518	1.00000	0.85(a)
76	2-Chlorotoluene	91	9.381	9.381	(0.931)	4272	1.00000	0.94(a)

77 4-Chlorotoluene	91	9.478	9.478 (0.941)	4886	1.00000	0.95(a)
78 tert-Butylbenzene	119	9.744	9.744 (0.968)	3996	1.00000	0.93(a)

	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	9.786	9.786	(0.972)	4991	1.00000	0.93(a)
81	sec-Butylbenzene	105	9.932	9.932	(0.986)	4995	1.00000	0.89(a)
82	p-Isopropyltoluene	119	10.055	10.055	(0.999)	4654	1.00000	0.88(a)
83	1,3-Dichlorobenzene	146	10.018	10.018	(0.995)	3444	1.00000	1.00(a)
84	1,4-Dichlorobenzene	146	10.093	10.093	(1.002)	3682	1.00000	1.02(a)
87	n-Butylbenzene	91	10.400	10.400	(1.033)	3896	1.00000	0.85(a)
88	1,2-Dichlorobenzene	146	10.400	10.400	(1.033)	3477	1.00000	1.00(a)
89	1,2-Dibromo-3-Chloropropane	155	11.056	11.056	(1.098)	137	1.00000	1.70(aM)
90	1,2,4-Trichlorobenzene	180	11.757	11.757	(1.167)	2088	1.00000	0.82(aM)
91	Hexachlorobutadiene	225	11.904	11.904	(1.182)	1057	1.00000	1.41(a)
92	Naphthalene	128	11.960	11.960	(1.188)	7324	1.00000	0.39(a)
93	1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	1989	1.00000	0.86(aM)
135	1,4-Dioxane	88	6.041	6.041	(1.286)	336	20.0000	32.92(aM)
130	Ethyl Acetate	43	4.204	4.204	(0.895)	1629	1.00000	0.96(aM)
136	n-Hexane	57	3.263	3.263	(0.694)	846	1.00000	2.55(a)
138	Freon TF	101	2.277	2.277	(0.485)	906	1.00000	1.70(a)
141	Cyclohexane	56	4.691	4.691	(0.998)	4077	1.00000	1.71(a)
142	Tetrahydrofuran	42	4.399	4.399	(0.936)	630	2.00000	2.21(aM)
146	Methyl Acetate	43	2.611	2.611	(0.556)	2213	1.00000	0.96(aM)
147	Methylcyclohexane	55	5.864	5.864	(1.079)	896	1.00000	0.67(aM)
149	Isopropyl alcohol	45	2.446	2.446	(0.521)	1978	20.0000	18.48(T)
151	4-Methyl-2-pentanol	45	7.105	7.105	(1.307)	9348	20.0000	56.29(M)
156	Diisopropyl ether	45	3.507	3.507	(0.746)	4840	1.00000	0.95(TaM)
158	Dichlorofluoromethane	67	1.808	1.808	(0.385)	2019	1.00000	0.94(M)
166	1,2,3-Trimethylbenzene	105	10.138	10.138	(1.007)	5172	1.00000	0.98(a)
160	2-Methylnaphthalene	142	12.912	12.912	(1.282)	1890	1.00000	2.70(a)
180	1-Methylnaphthalene	142	13.066	13.066	(1.297)	1770	1.00000	2.05(a)
174	tert-Amyl methyl ether	73	5.178	5.178	(1.102)	3904	1.00000	0.90(Ta)
175	tert-Butyl ethyl ether	59	3.919	3.919	(0.834)	3965	1.00000	0.89(a)
140	1,3-Butadiene	54	1.377	1.377	(0.293)	1167	1.00000	1.92(a)
189	n-Butyl acetate	43	7.611	7.611	(0.942)	2358	1.00000	0.22(aM)
86	Benzyl Chloride	91	10.400	10.400	(1.287)	3896	1.00000	0.22(aM)
178	Ethylene oxide	44	1.565	1.565	(0.333)	3531	2.00000	1.52(a)
182	Epichlorohydrin	57	6.506	6.506	(1.196)	296	4.00000	8.12(M)
185	Isoprene	39	2.097	2.097	(0.446)	177	1.00000	1.67(aM)
150	Allyl alcohol	57	3.495	3.495	(0.744)	118	20.0000	65.92(M)
162	Butyl acrylate	55	8.642	8.642	(1.069)	2389	1.00000	0.89(a)
194	Acetaldehyde	44	1.426	1.426	(0.304)	681	4.00000	(aM)
131	Methyl Acrylate	55	4.219	4.219	(0.898)	1168	1.00000	1.04(aM)
133	Ethyl Acrylate	55	5.827	5.827	(1.240)	1703	1.00000	0.96(aM)
203	2-Ethylhexyl Acrylate	55	11.945	11.945	(1.186)	964	1.00000	2.60(aA)
204	2-Chloropropene	41	1.880	1.880	(0.400)	1696	1.00000	0.02(aA)
163	Butyl methacrylate	41	9.557	9.557	(0.949)	1862	1.00000	1.81(a)
167	Ethanol	45	1.988	1.988	(0.423)	337	20.0000	9.36(M)
200	Dimethyl Disulfide	94	6.633	6.633	(0.821)	1045	1.00000	0.72(aM)
M 94	1,2-Dichloroethylene (total)	96				2413	2.00000	(a)
M 95	Xylenes (total)	106				7484	3.00000	(a)

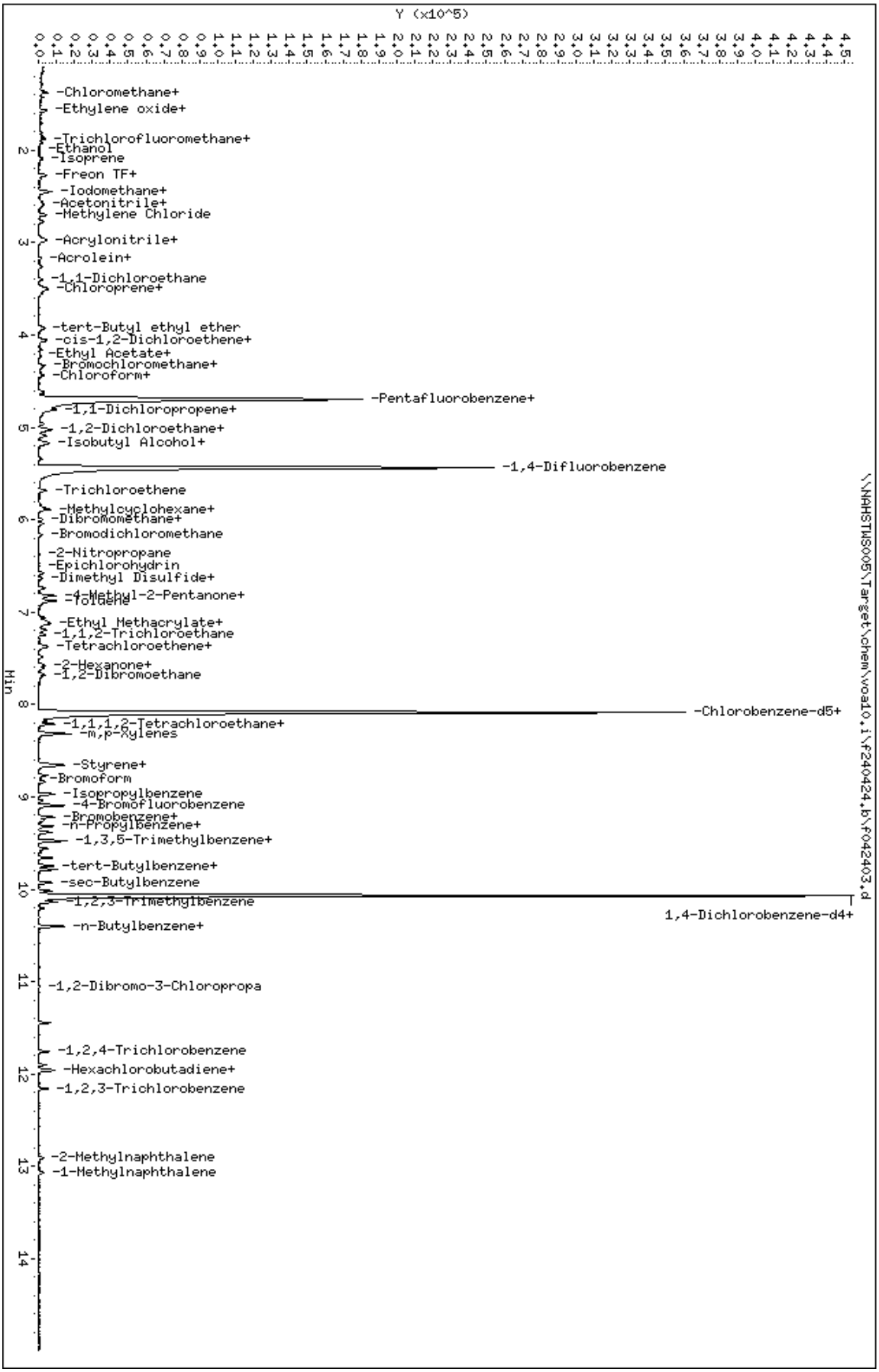
QC Flag Legend

T - Target compound detected outside RT window.

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

QC Flag Legend

M - Compound response manually integrated.



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Purge Volume: 5.0
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Instrument: voa10.i
Operator: TS
Column diameter: 0.18

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Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

o-Xylene (95-47-6)

Reason Code:

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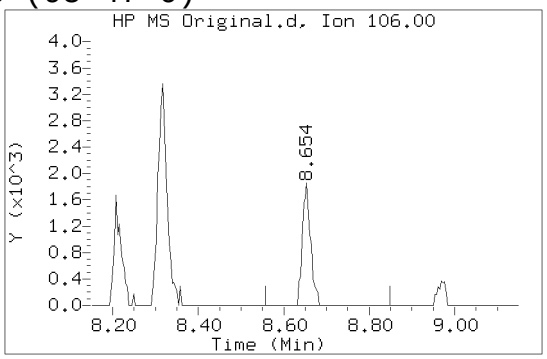

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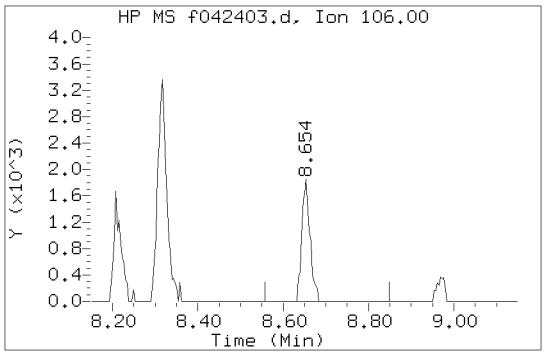

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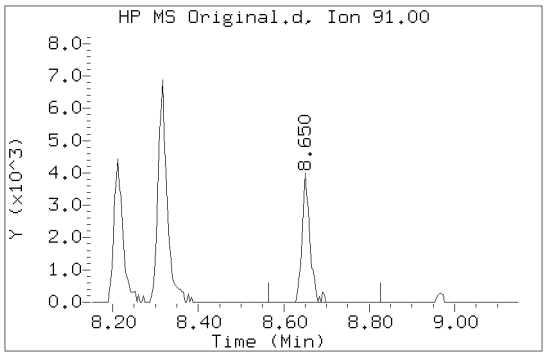

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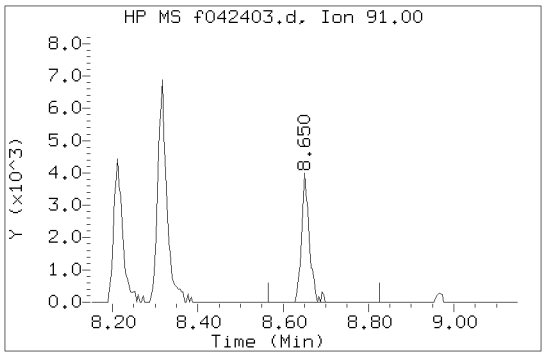

Bromomethane (74-83-9)

Reason Code:

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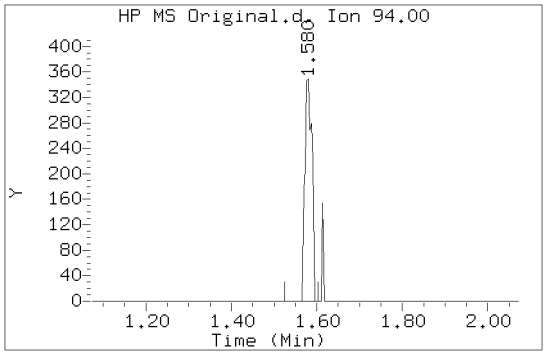

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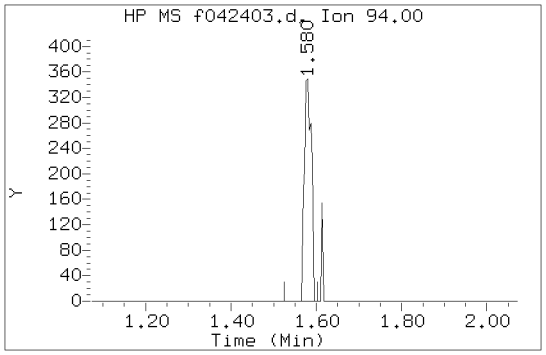

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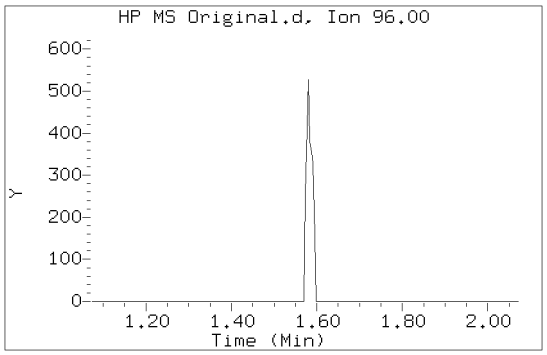

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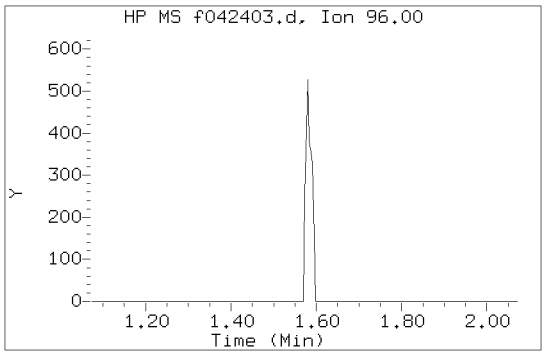

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Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Chloroethane (75-00-3)

Reason Code:

BEFORE

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64
AREA
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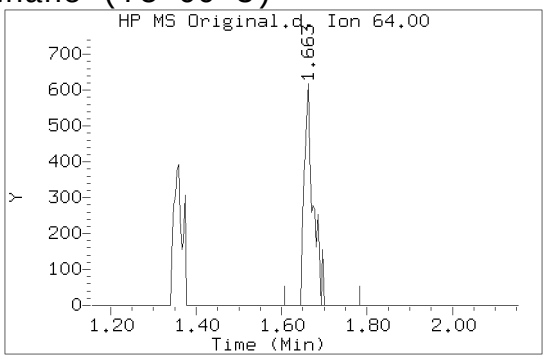
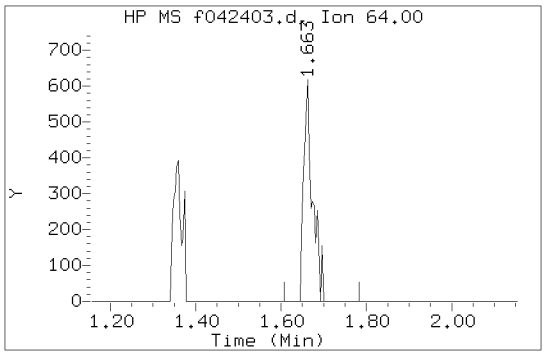
24-Apr-2024
13:49
firat
tastan



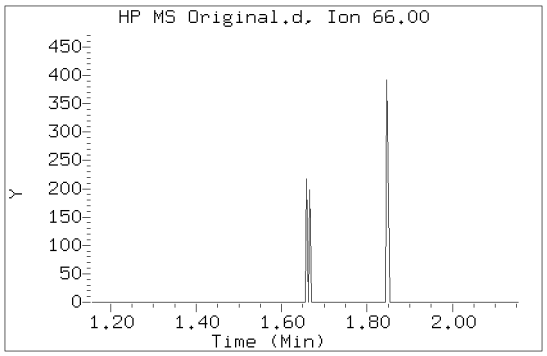
AFTER

MASS
64
AREA
910
HEIGHT
618
24-Apr-2024
13:49
firat
tastan



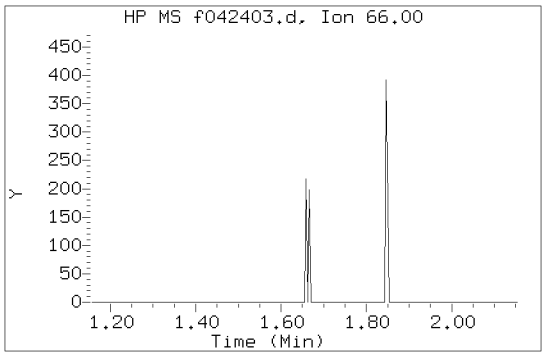
BEFORE

MASS
66
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
66
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

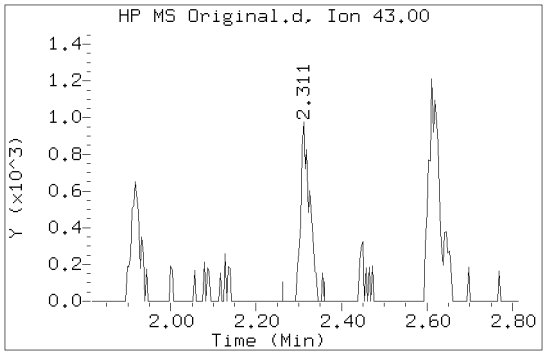


Acetone (67-64-1)

Reason Code:

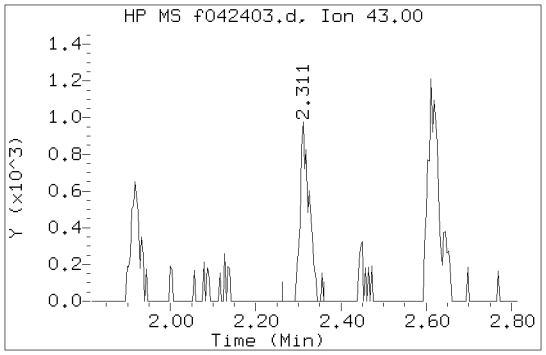
BEFORE

MASS
43
AREA
1482
HEIGHT
978
24-Apr-2024
13:49
firat
tastan



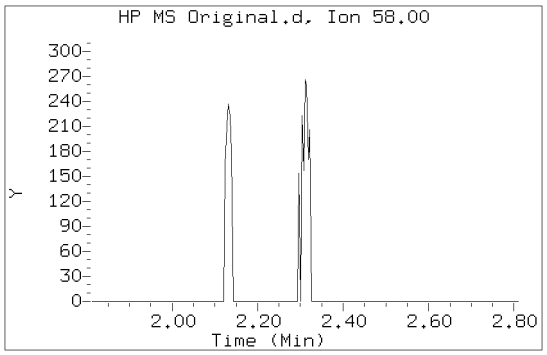
AFTER

MASS
43
AREA
1482
HEIGHT
978
24-Apr-2024
13:49
firat
tastan



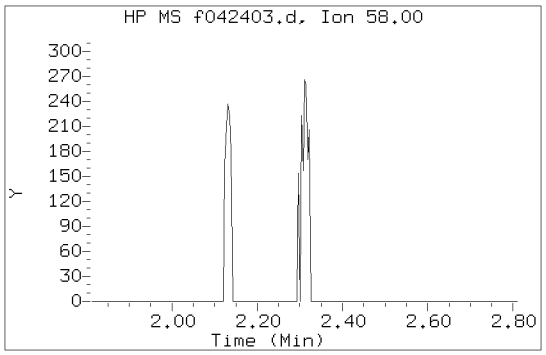
BEFORE

MASS
58
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
58
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



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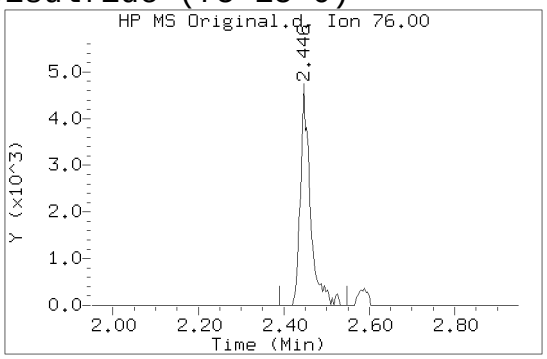
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Carbon Disulfide (75-15-0)

Reason Code:

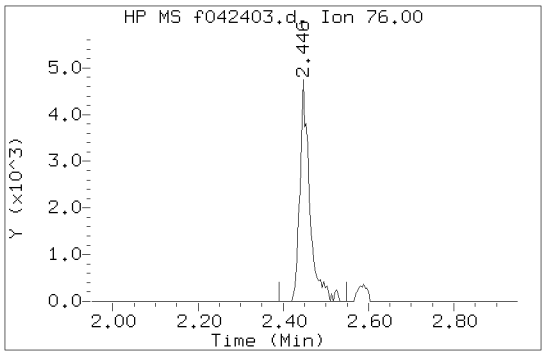
BEFORE

MASS
76
AREA
7823
HEIGHT
4748
24-Apr-2024
13:49
firat
tastan



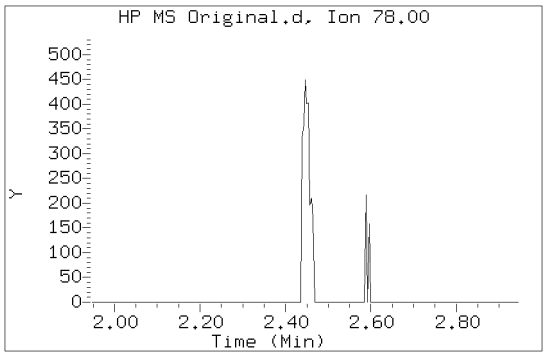
AFTER

MASS
76
AREA
7823
HEIGHT
4748
24-Apr-2024
13:49
firat
tastan



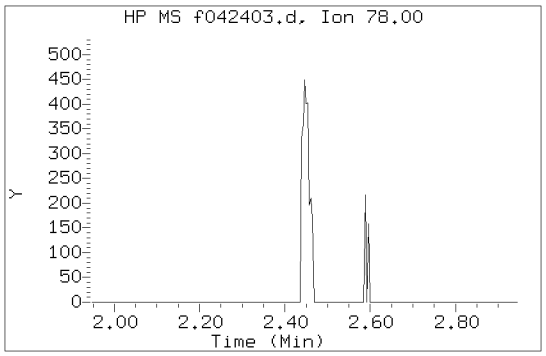
BEFORE

MASS
78
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
78
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

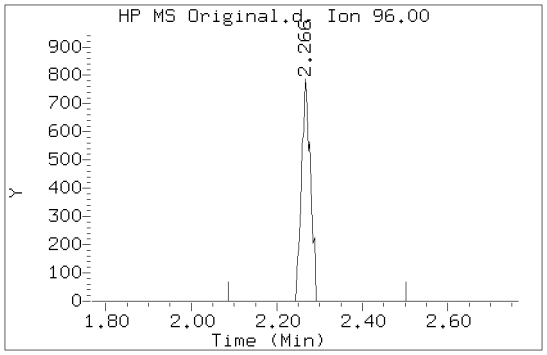


1,1-Dichloroethene (75-35-4)

Reason Code:

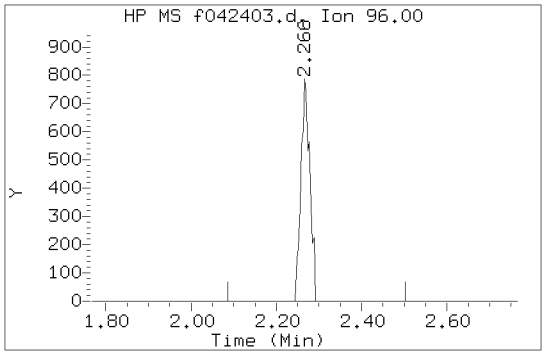
BEFORE

MASS
96
AREA
1173
HEIGHT
787
24-Apr-2024
13:49
firat
tastan



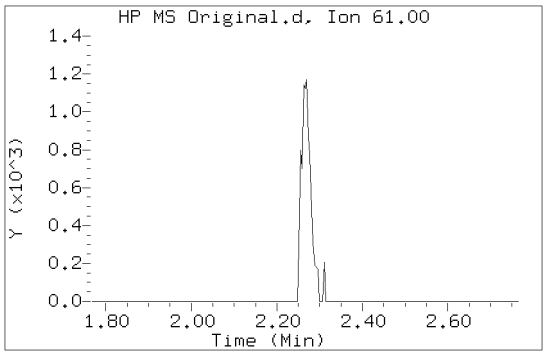
AFTER

MASS
96
AREA
1173
HEIGHT
787
24-Apr-2024
13:49
firat
tastan



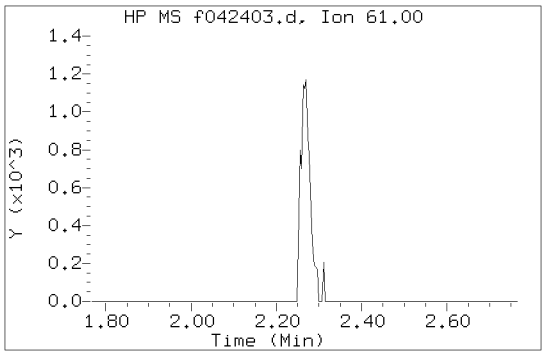
BEFORE

MASS
61
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
61
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



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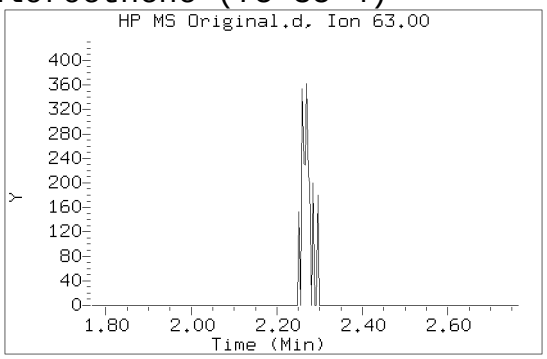
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

1,1-Dichloroethene (75-35-4)

Reason Code:

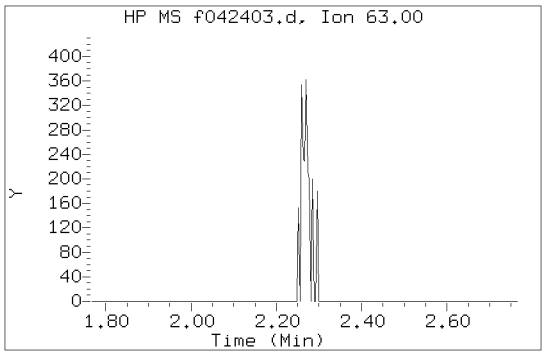
BEFORE

MASS
63
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
63
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

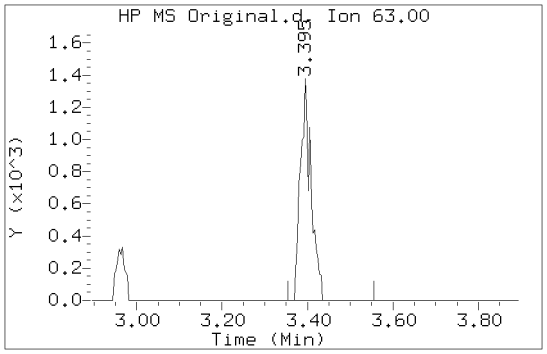


1,1-Dichloroethane (75-34-3)

Reason Code:

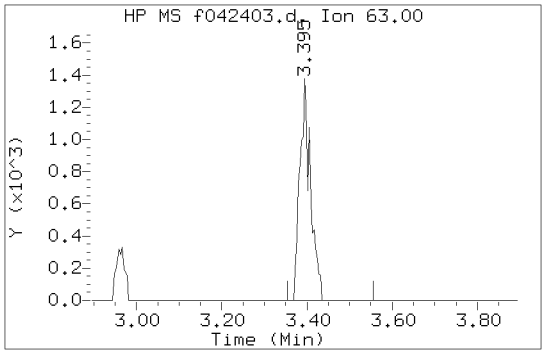
BEFORE

MASS
63
AREA
2445
HEIGHT
1378
24-Apr-2024
13:49
firat
tastan



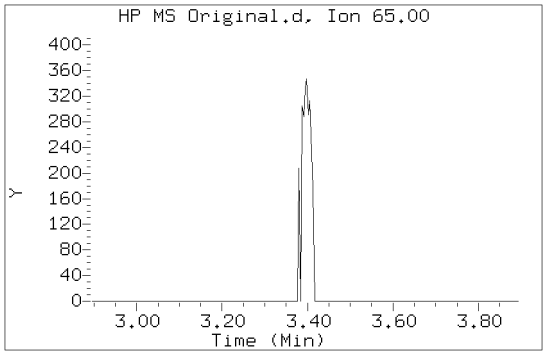
AFTER

MASS
63
AREA
2445
HEIGHT
1378
24-Apr-2024
13:49
firat
tastan



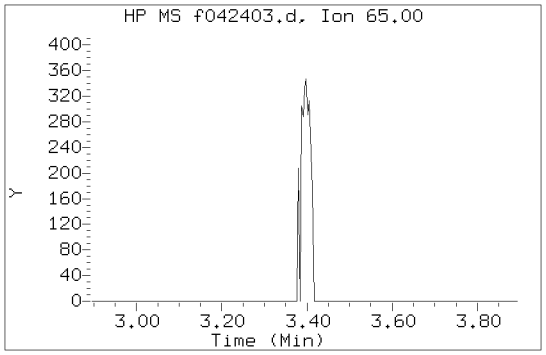
BEFORE

MASS
65
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



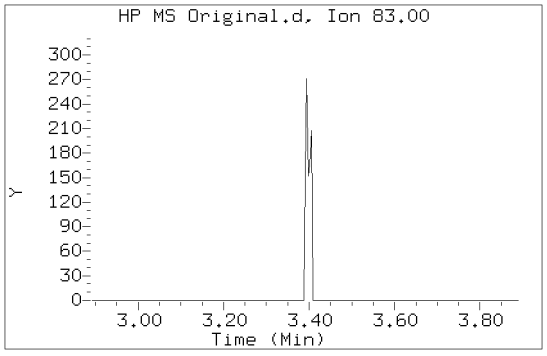
AFTER

MASS
65
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



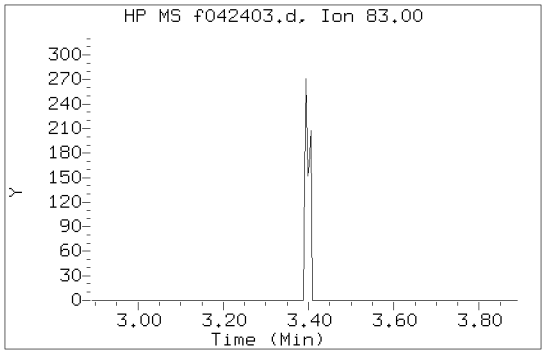
BEFORE

MASS
83
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
83
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



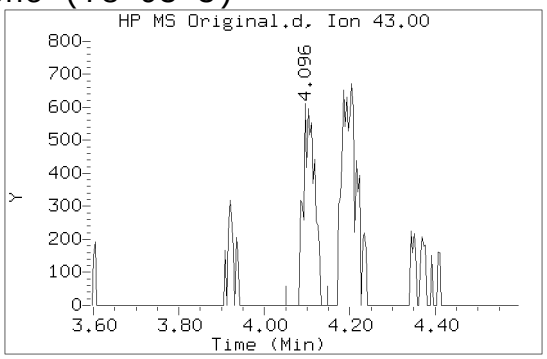
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

2-Butanone (78-93-3)

Reason Code:

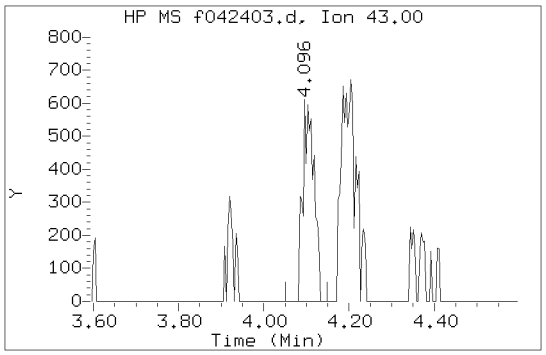
BEFORE

MASS
43
AREA
1140
HEIGHT
611
24-Apr-2024
13:49
firat
tastan



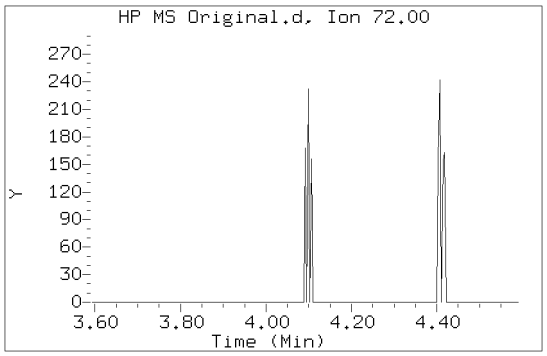
AFTER

MASS
43
AREA
1140
HEIGHT
611
24-Apr-2024
13:49
firat
tastan



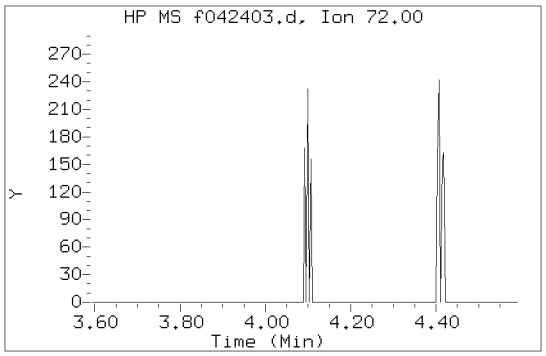
BEFORE

MASS
72
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
72
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

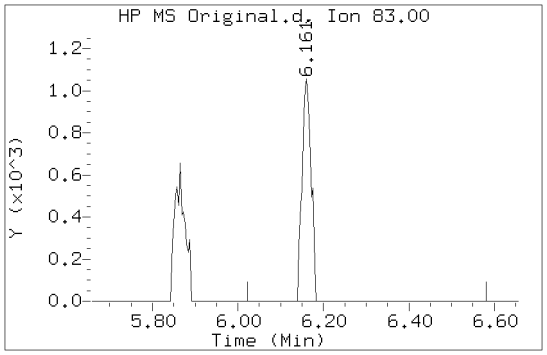


Bromodichloromethane (75-27-4)

Reason Code:

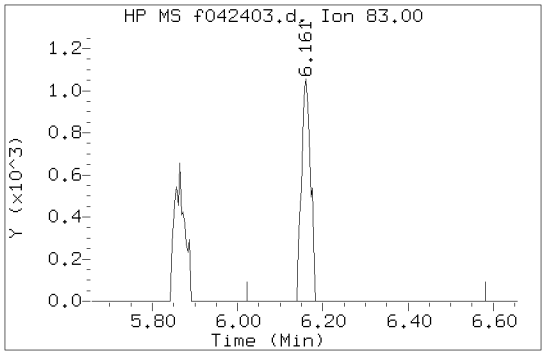
BEFORE

MASS
83
AREA
1602
HEIGHT
1056
24-Apr-2024
13:49
firat
tastan



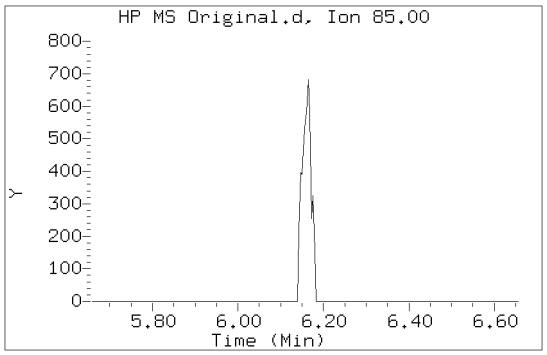
AFTER

MASS
83
AREA
1602
HEIGHT
1056
24-Apr-2024
13:49
firat
tastan



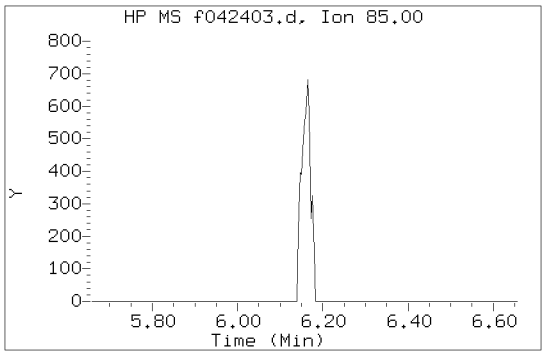
BEFORE

MASS
85
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



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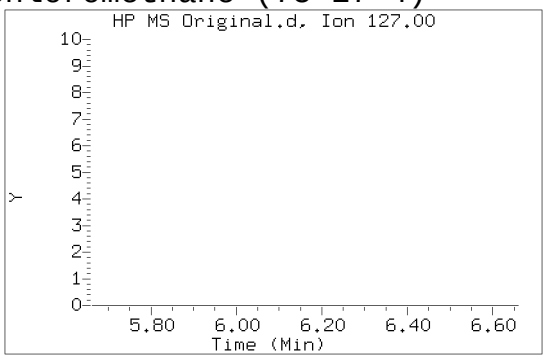
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Bromodichloromethane (75-27-4)

Reason Code:

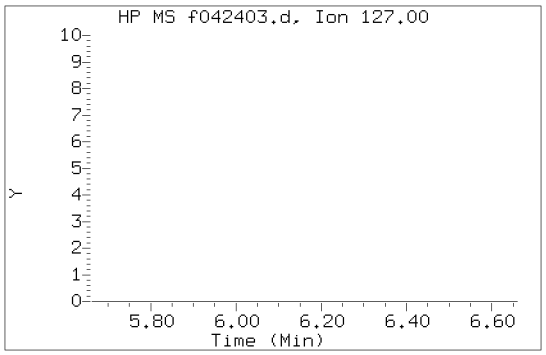
BEFORE

MASS
127
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
127
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

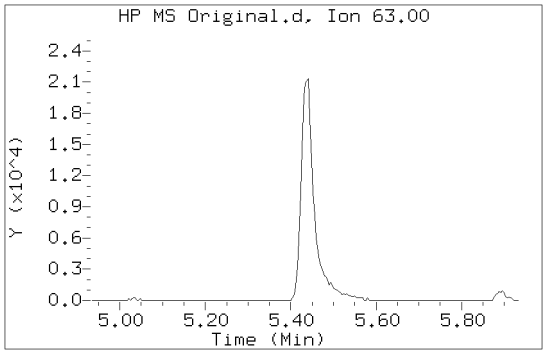


1,2-Dichloropropane (78-87-5)

Reason Code:

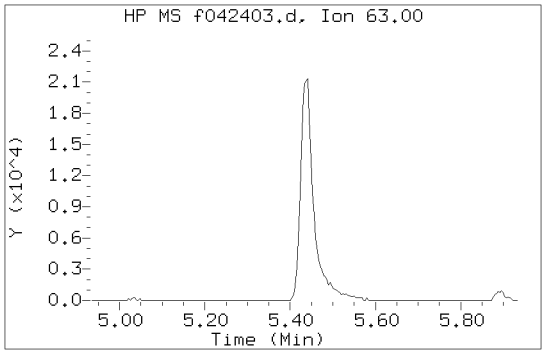
BEFORE

MASS
63
AREA
1404
HEIGHT
945
24-Apr-2024
13:49
firat
tastan



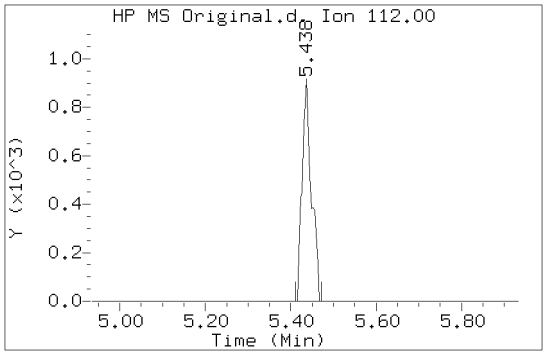
AFTER

MASS
63
AREA
1404
HEIGHT
945
24-Apr-2024
13:49
firat
tastan



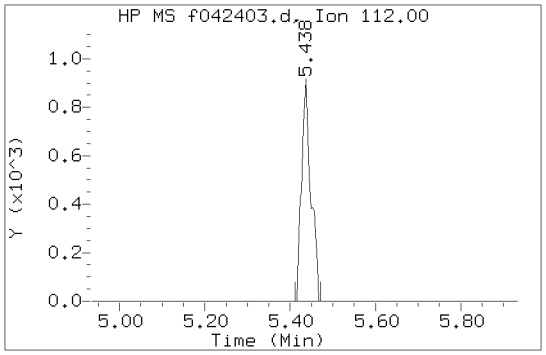
BEFORE

MASS
112
AREA
1418
HEIGHT
917
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
112
AREA
1418
HEIGHT
917
24-Apr-2024
13:49
firat
tastan

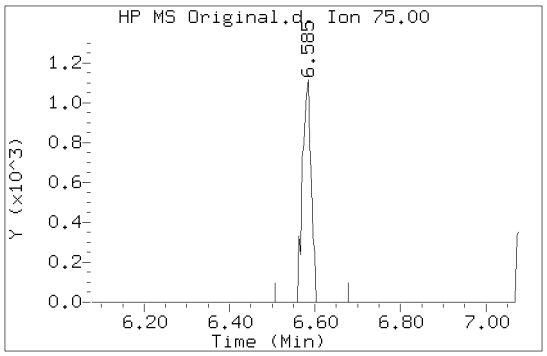


cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

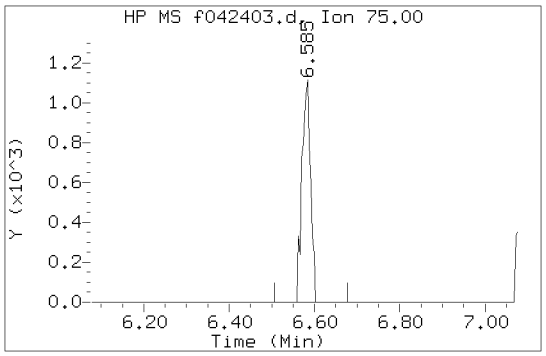
BEFORE

MASS
75
AREA
1603
HEIGHT
1115
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
75
AREA
1603
HEIGHT
1115
24-Apr-2024
13:49
firat
tastan



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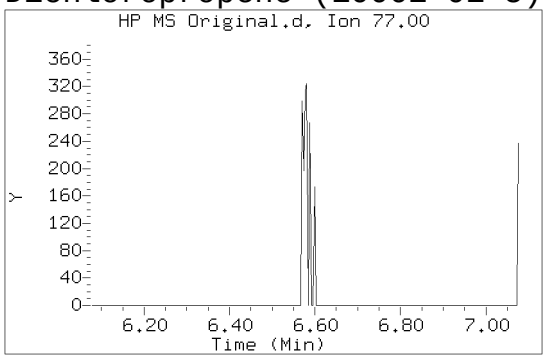
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

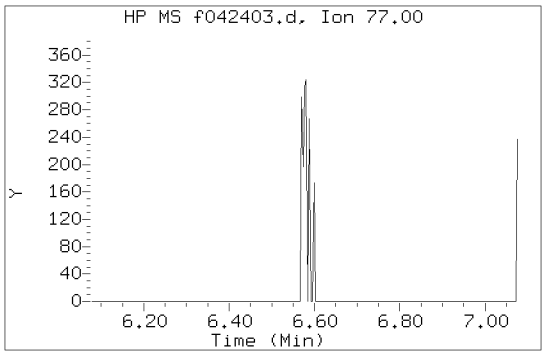
cis-1,3-Dichloropropene (10061-01-5)

Reason Code:

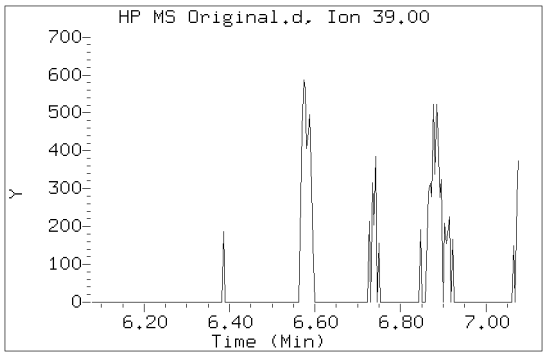
BEFORE
MASS
77
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



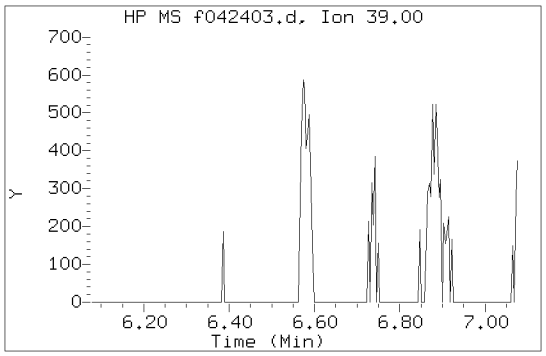
AFTER
MASS
77
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



BEFORE
MASS
39
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



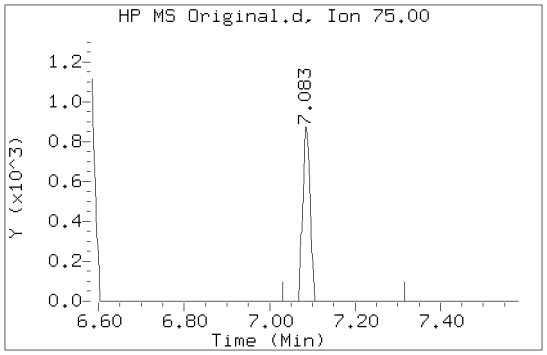
AFTER
MASS
39
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



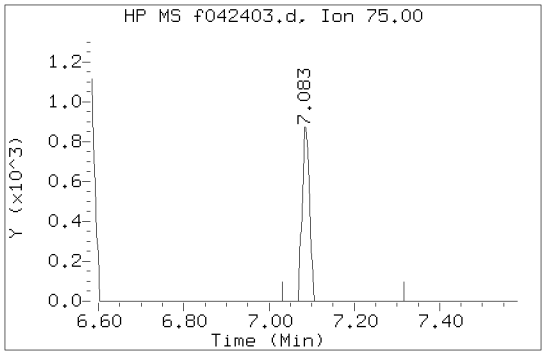
trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

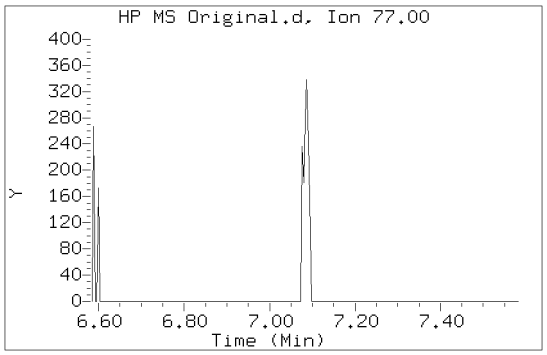
BEFORE
MASS
75
AREA
1091
HEIGHT
875
24-Apr-2024
13:49
firat
tastan



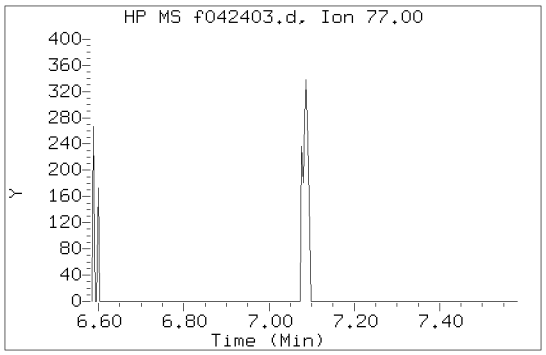
AFTER
MASS
75
AREA
1091
HEIGHT
875
24-Apr-2024
13:49
firat
tastan



BEFORE
MASS
77
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER
MASS
77
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



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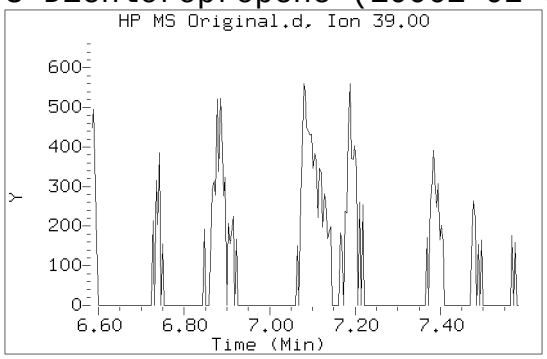
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

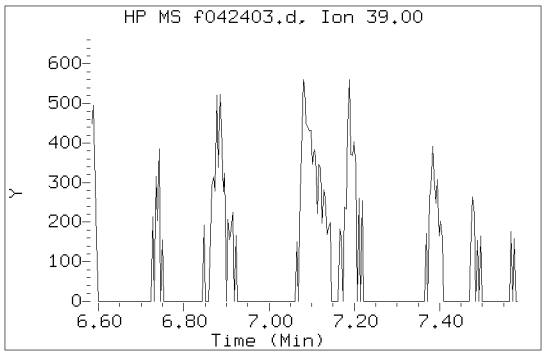
trans-1,3-Dichloropropene (10061-02-6)

Reason Code:

BEFORE
MASS
39
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



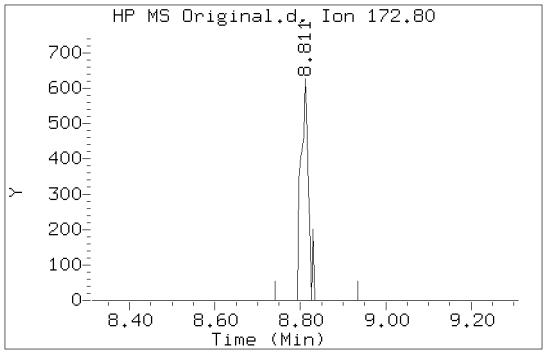
AFTER
MASS
39
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



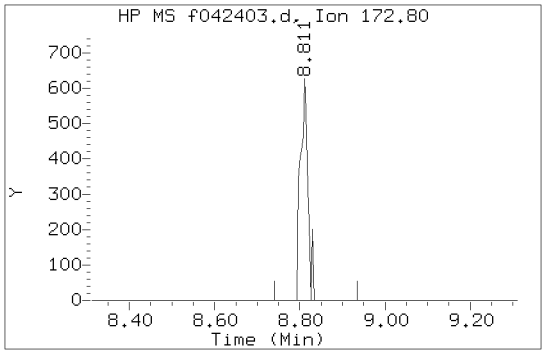
Bromoform (75-25-2)

Reason Code:

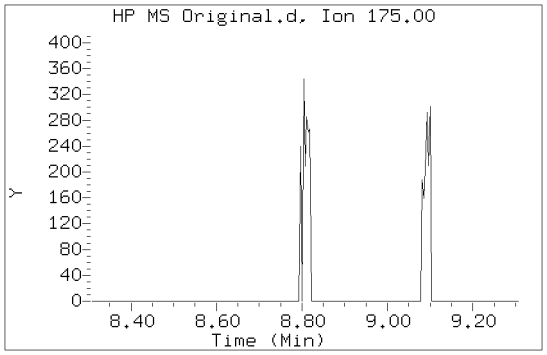
BEFORE
MASS
172.8
AREA
795
HEIGHT
627
24-Apr-2024
13:49
firat
tastan



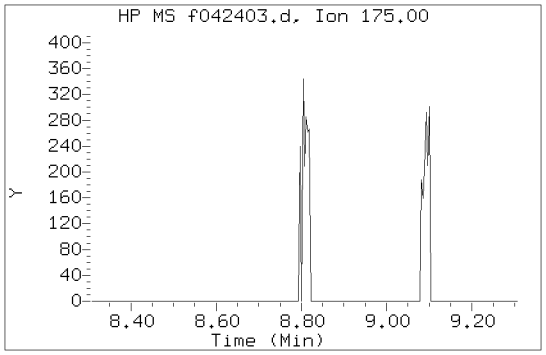
AFTER
MASS
172.8
AREA
795
HEIGHT
627
24-Apr-2024
13:49
firat
tastan



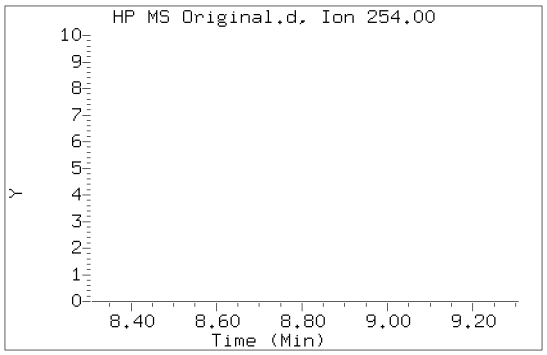
BEFORE
MASS
175
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



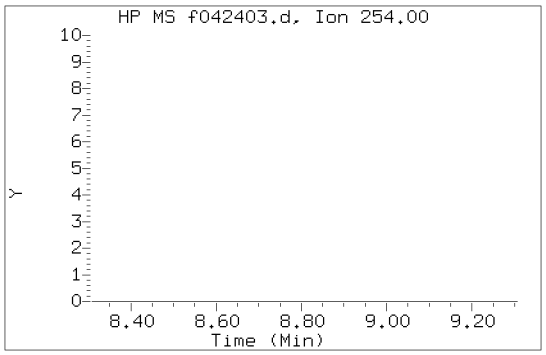
AFTER
MASS
175
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



BEFORE
MASS
254
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER
MASS
254
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



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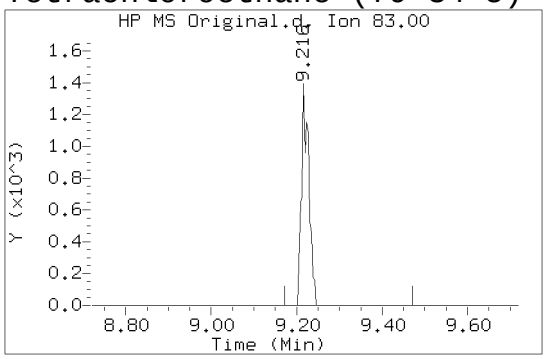
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

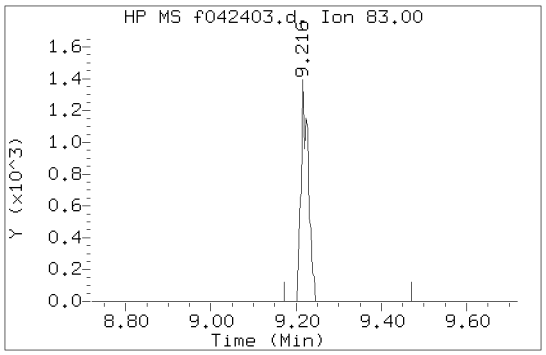
BEFORE

MASS
83
AREA
1687
HEIGHT
1394
24-Apr-2024
13:49
firat
tastan



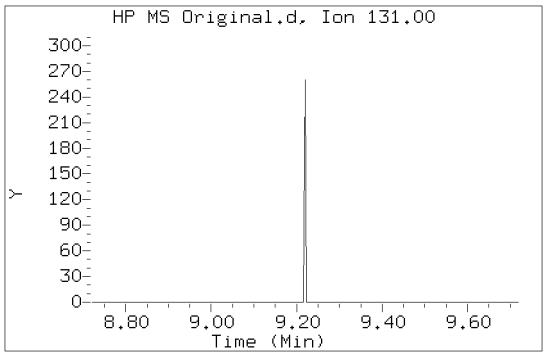
AFTER

MASS
83
AREA
1687
HEIGHT
1394
24-Apr-2024
13:49
firat
tastan



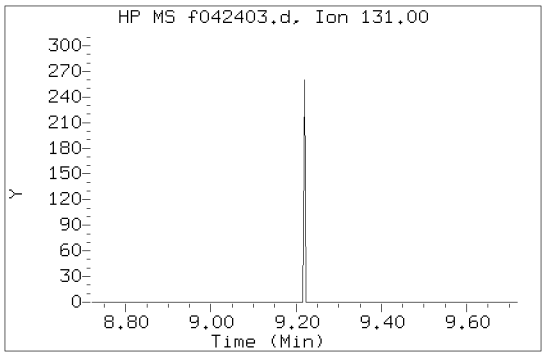
BEFORE

MASS
131
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



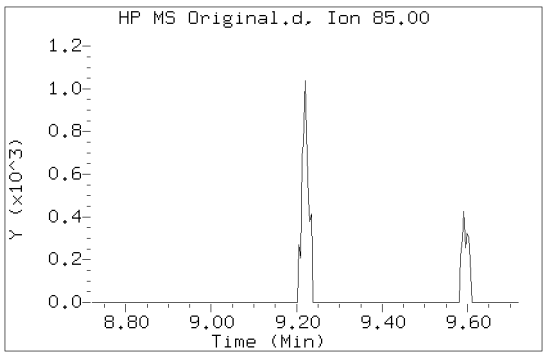
AFTER

MASS
131
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



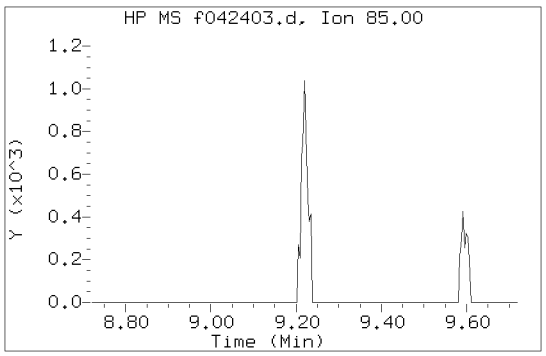
BEFORE

MASS
85
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

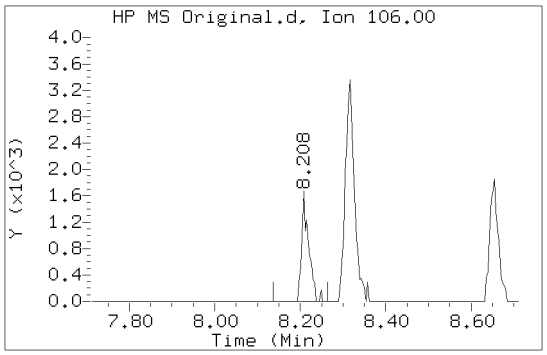


Ethylbenzene (100-41-4)

Reason Code:

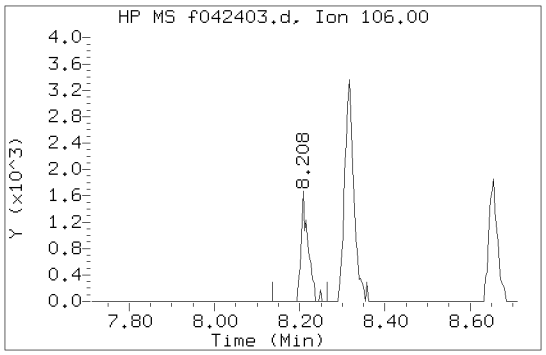
BEFORE

MASS
106
AREA
1950
HEIGHT
1668
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
106
AREA
1950
HEIGHT
1668
24-Apr-2024
13:49
firat
tastan



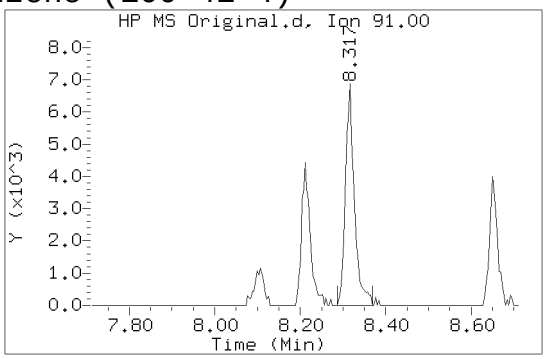
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Ethylbenzene (100-41-4)

Reason Code:

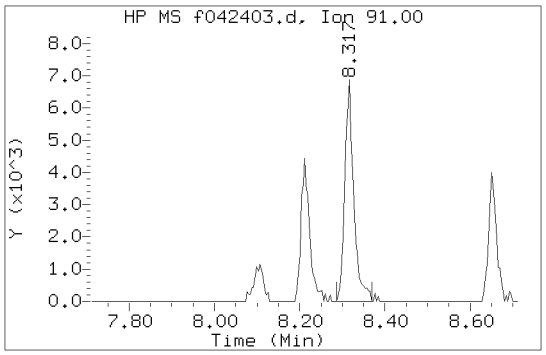
BEFORE

MASS
91
AREA
9977
HEIGHT
6878
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
91
AREA
9977
HEIGHT
6878
24-Apr-2024
13:49
firat
tastan

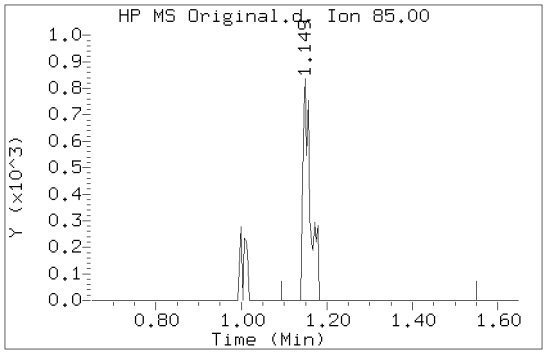


Dichlorodifluoromethane (75-71-8)

Reason Code:

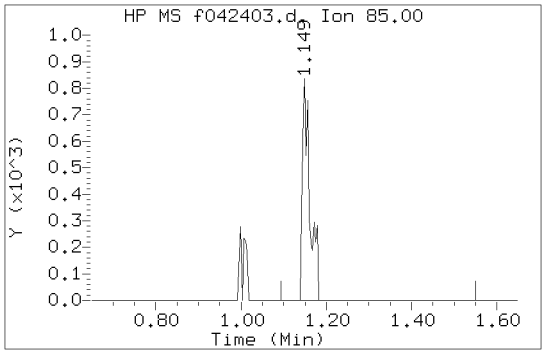
BEFORE

MASS
85
AREA
1055
HEIGHT
836
24-Apr-2024
13:49
firat
tastan



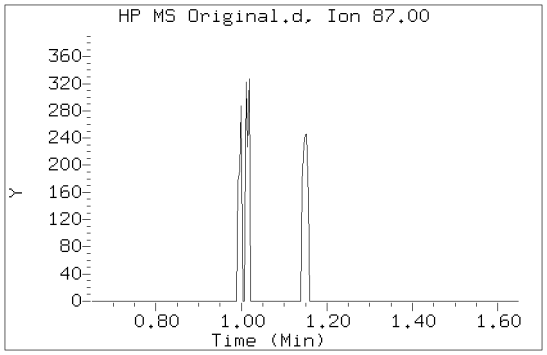
AFTER

MASS
85
AREA
1055
HEIGHT
836
24-Apr-2024
13:49
firat
tastan



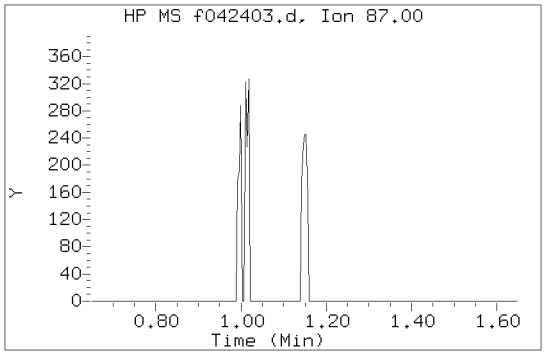
BEFORE

MASS
87
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
87
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

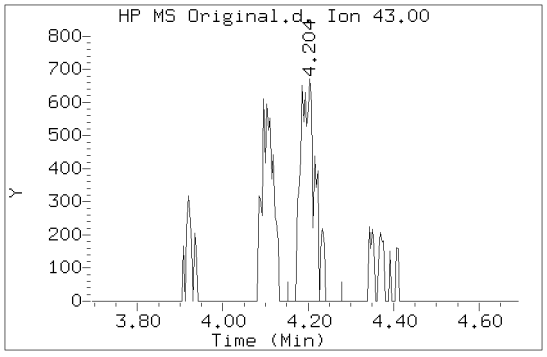


Vinyl Acetate (108-05-4)

Reason Code:

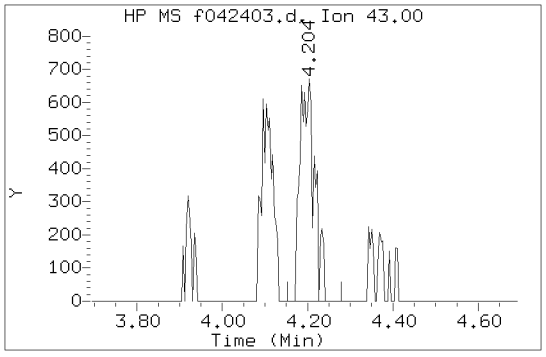
BEFORE

MASS
43
AREA
1629
HEIGHT
671
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
43
AREA
1629
HEIGHT
671
24-Apr-2024
13:49
firat
tastan



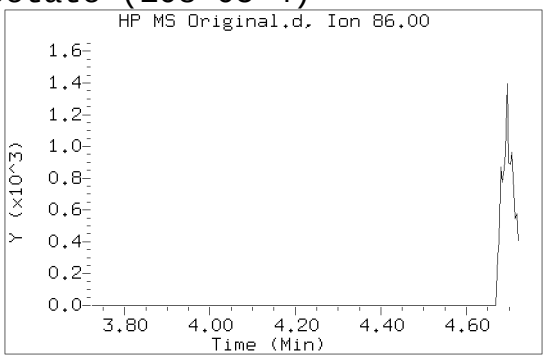
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Vinyl Acetate (108-05-4)

Reason Code:

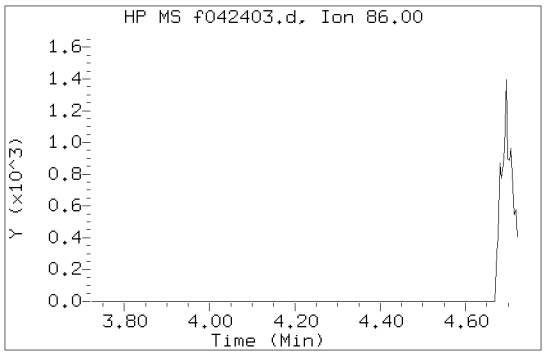
BEFORE

MASS
86
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
86
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

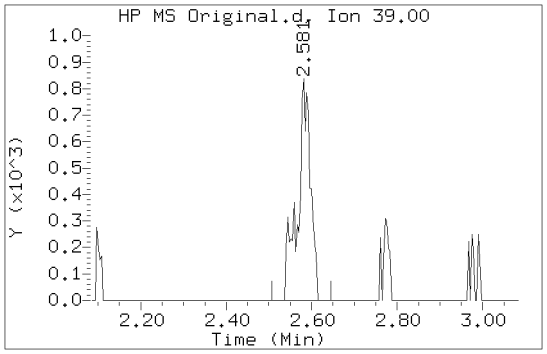


Acetonitrile (75-05-8)

Reason Code:

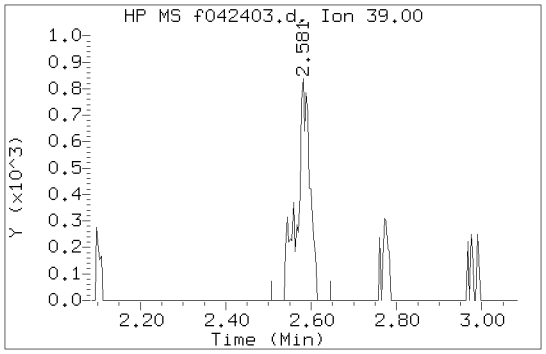
BEFORE

MASS
39
AREA
1787
HEIGHT
838
24-Apr-2024
13:49
firat
tastan



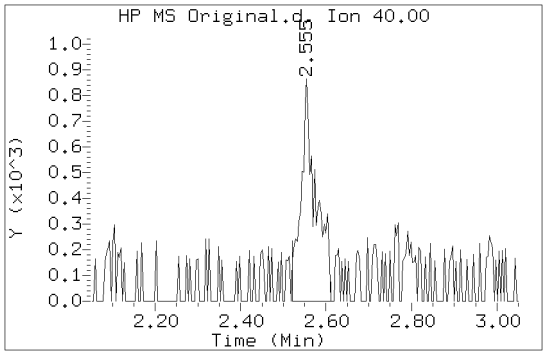
AFTER

MASS
39
AREA
1787
HEIGHT
838
24-Apr-2024
13:49
firat
tastan



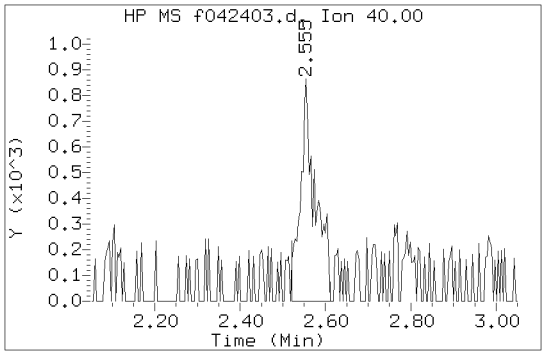
BEFORE

MASS
40
AREA
2124
HEIGHT
864
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
40
AREA
2124
HEIGHT
864
24-Apr-2024
13:49
firat
tastan

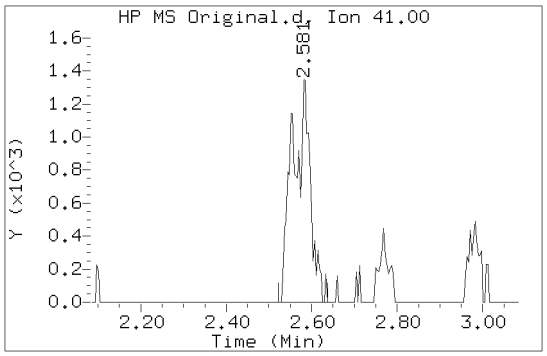


Allyl Chloride (107-05-1)

Reason Code:

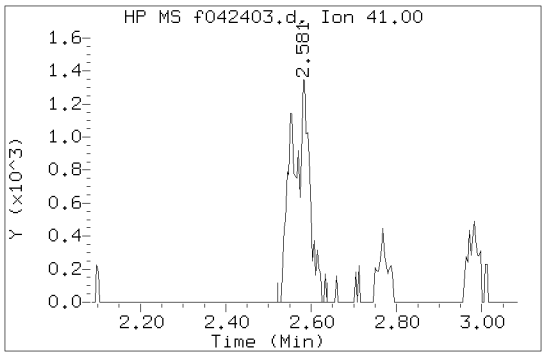
BEFORE

MASS
41
AREA
3937
HEIGHT
1346
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
41
AREA
3937
HEIGHT
1346
24-Apr-2024
13:49
firat
tastan



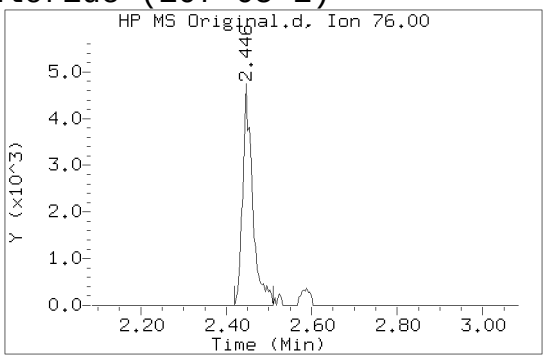
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Allyl Chloride (107-05-1)

Reason Code:

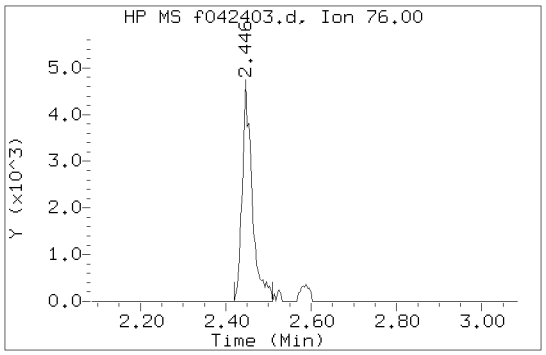
BEFORE

MASS
76
AREA
7646
HEIGHT
4748
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
76
AREA
7646
HEIGHT
4748
24-Apr-2024
13:49
firat
tastan

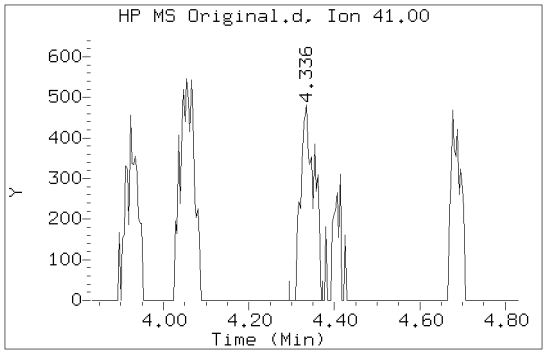


Methacrylonitrile (126-98-7)

Reason Code:

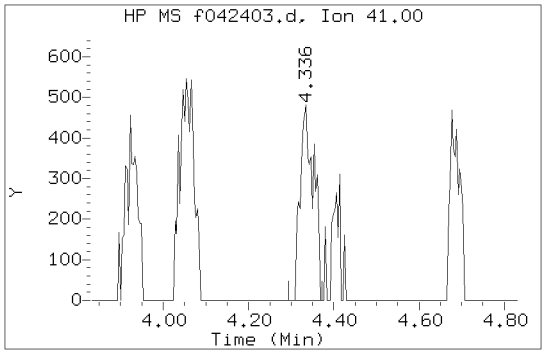
BEFORE

MASS
41
AREA
1081
HEIGHT
482
24-Apr-2024
13:49
firat
tastan



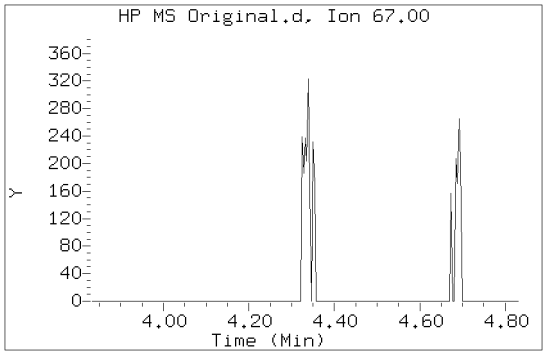
AFTER

MASS
41
AREA
1081
HEIGHT
482
24-Apr-2024
13:49
firat
tastan



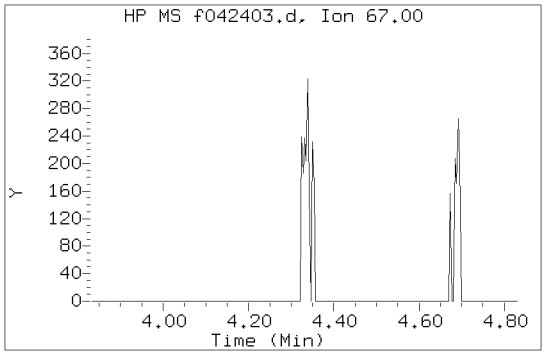
BEFORE

MASS
67
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



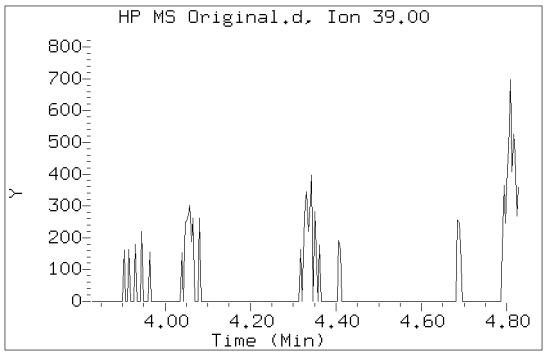
AFTER

MASS
67
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



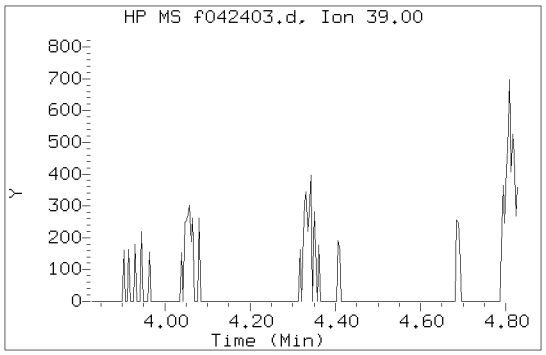
BEFORE

MASS
39
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
39
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



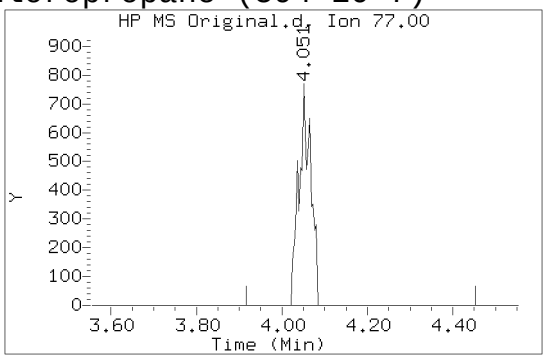
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

2,2-Dichloropropane (594-20-7)

Reason Code:

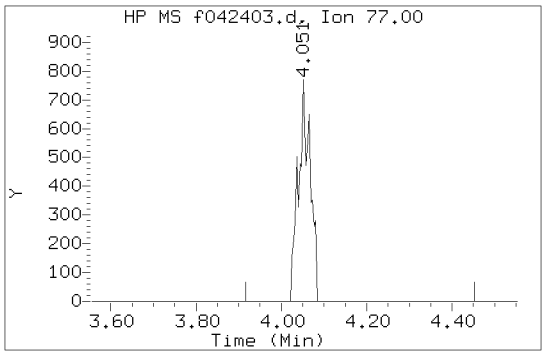
BEFORE

MASS
77
AREA
1508
HEIGHT
770
24-Apr-2024
13:49
firat
tastan



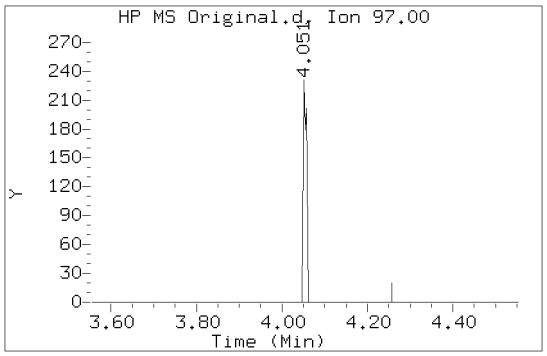
AFTER

MASS
77
AREA
1508
HEIGHT
770
24-Apr-2024
13:49
firat
tastan



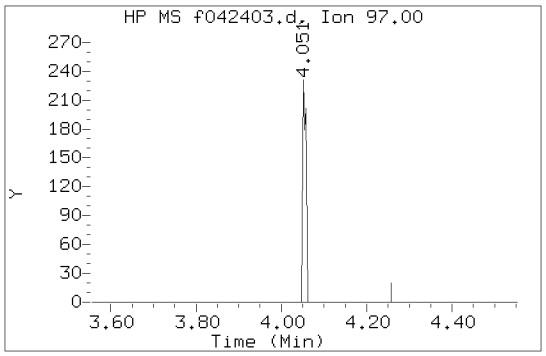
BEFORE

MASS
97
AREA
137
HEIGHT
231
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
97
AREA
137
HEIGHT
231
24-Apr-2024
13:49
firat
tastan

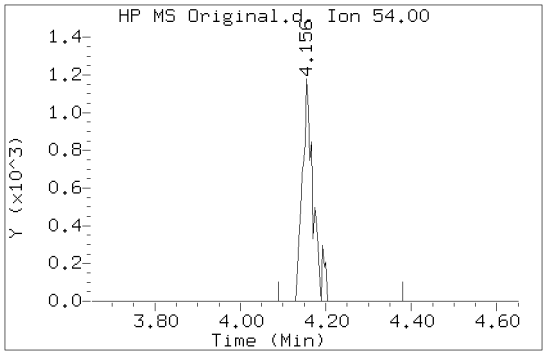


Propionitrile (107-12-0)

Reason Code:

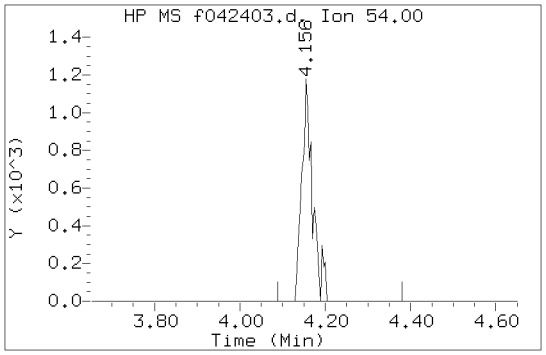
BEFORE

MASS
54
AREA
2121
HEIGHT
1179
24-Apr-2024
13:49
firat
tastan



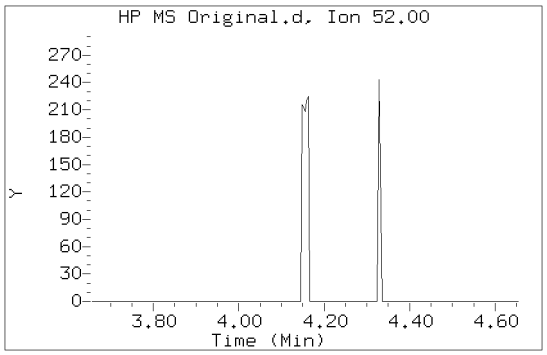
AFTER

MASS
54
AREA
2121
HEIGHT
1179
24-Apr-2024
13:49
firat
tastan



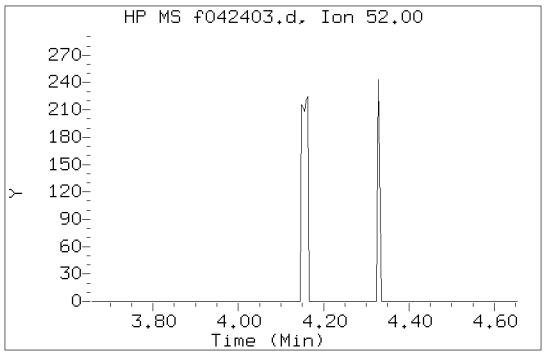
BEFORE

MASS
52
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
52
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



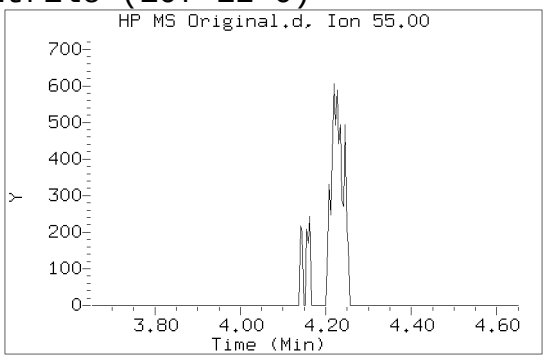
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Propionitrile (107-12-0)

Reason Code:

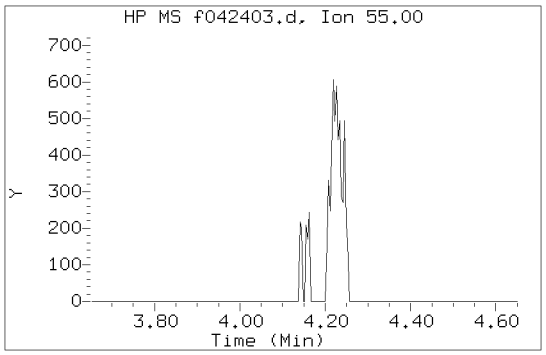
BEFORE

MASS
55
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
55
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

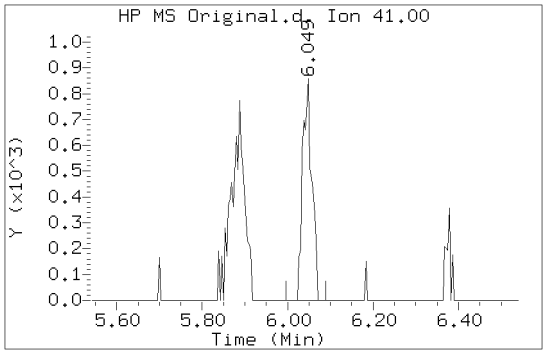


Methyl Methacrylate (80-62-6)

Reason Code:

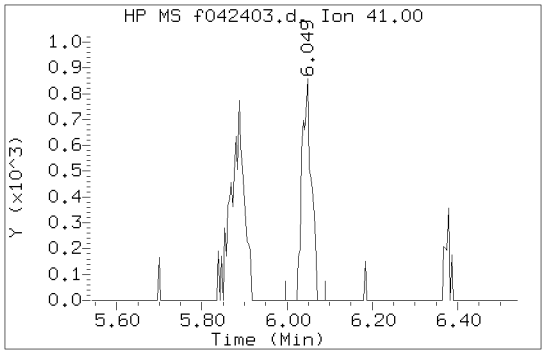
BEFORE

MASS
41
AREA
1316
HEIGHT
858
24-Apr-2024
13:49
firat
tastan



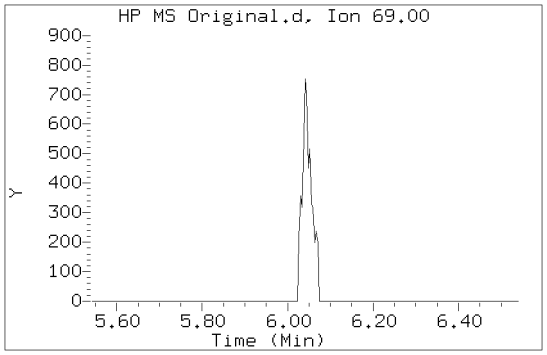
AFTER

MASS
41
AREA
1316
HEIGHT
858
24-Apr-2024
13:49
firat
tastan



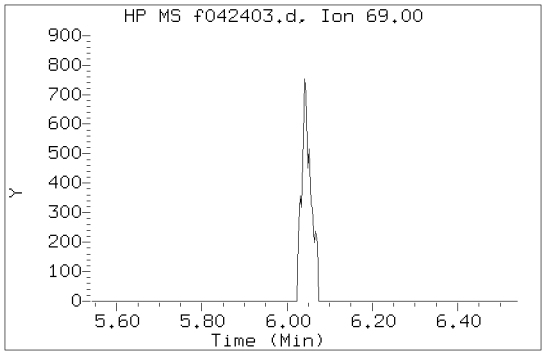
BEFORE

MASS
69
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



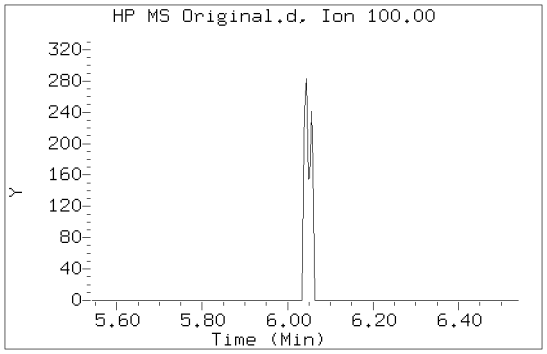
AFTER

MASS
69
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



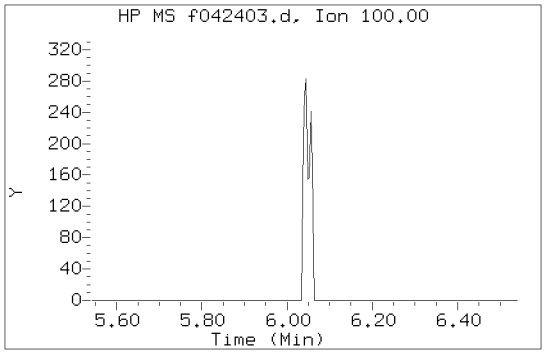
BEFORE

MASS
100
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
100
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



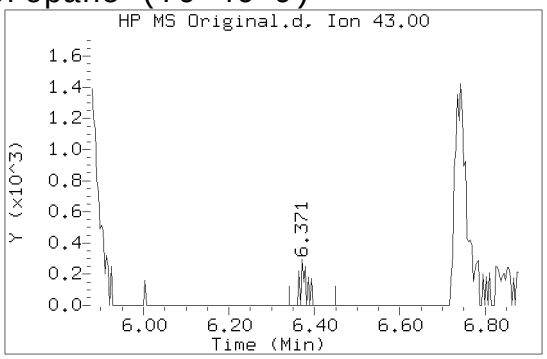
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

2-Nitropropane (79-46-9)

Reason Code:

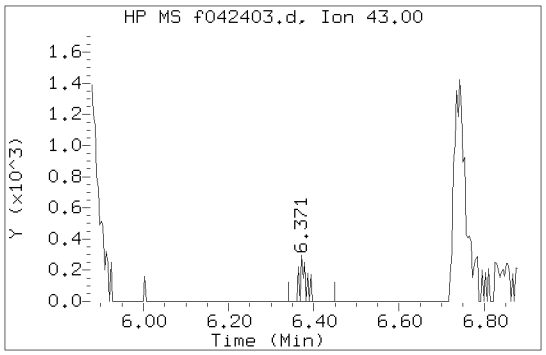
BEFORE

MASS
43
AREA
287
HEIGHT
297
24-Apr-2024
13:49
firat
tastan



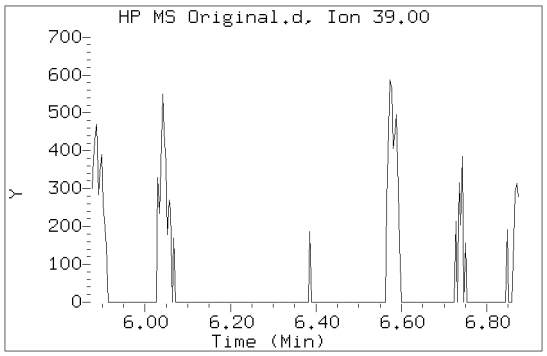
AFTER

MASS
43
AREA
287
HEIGHT
297
24-Apr-2024
13:49
firat
tastan



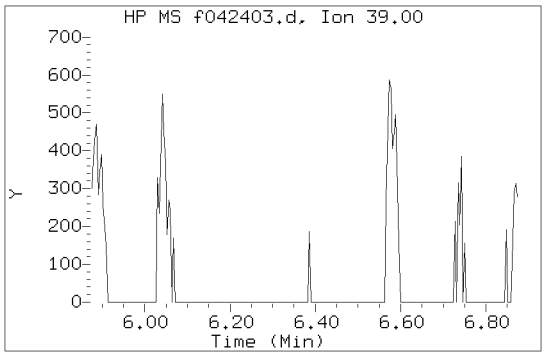
BEFORE

MASS
39
AREA
781
HEIGHT
523
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
39
AREA
781
HEIGHT
523
24-Apr-2024
13:49
firat
tastan

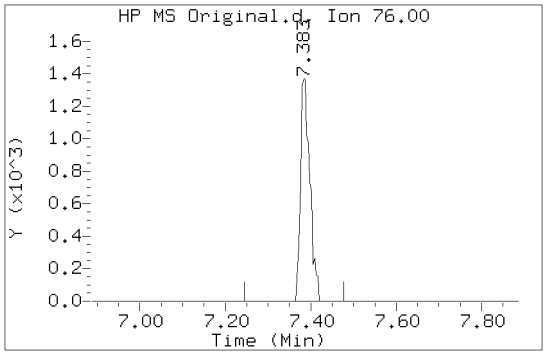


1,3-Dichloropropane (142-28-9)

Reason Code:

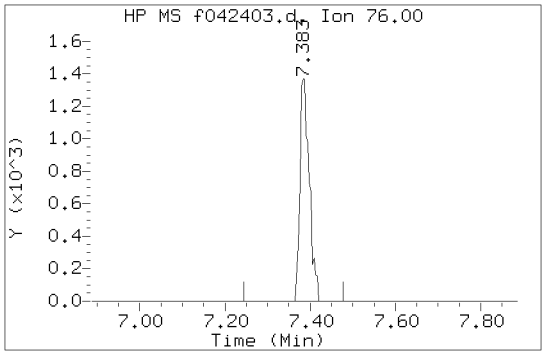
BEFORE

MASS
76
AREA
2149
HEIGHT
1369
24-Apr-2024
13:49
firat
tastan



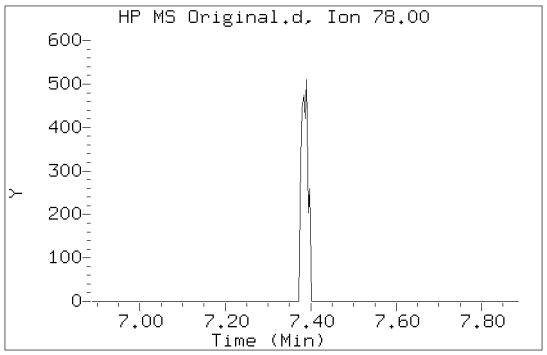
AFTER

MASS
76
AREA
2149
HEIGHT
1369
24-Apr-2024
13:49
firat
tastan



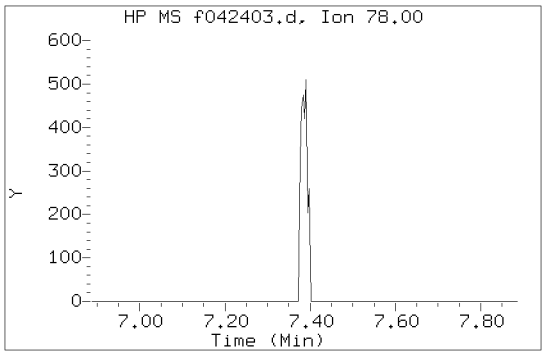
BEFORE

MASS
78
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
78
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



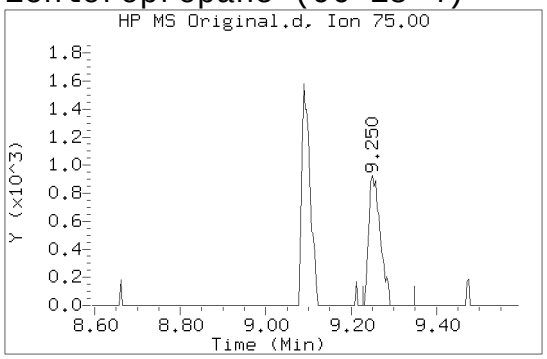
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

1,2,3-Trichloropropane (96-18-4)

Reason Code:

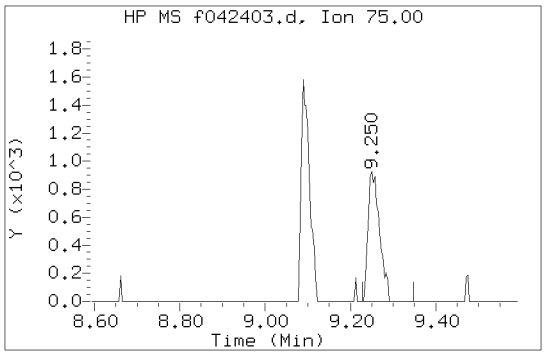
BEFORE

MASS
75
AREA
1742
HEIGHT
928
24-Apr-2024
13:49
firat
tastan



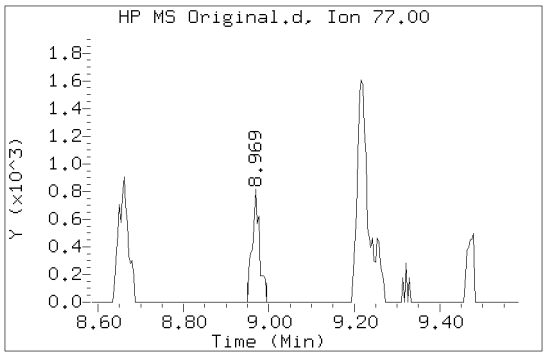
AFTER

MASS
75
AREA
1742
HEIGHT
928
24-Apr-2024
13:49
firat
tastan



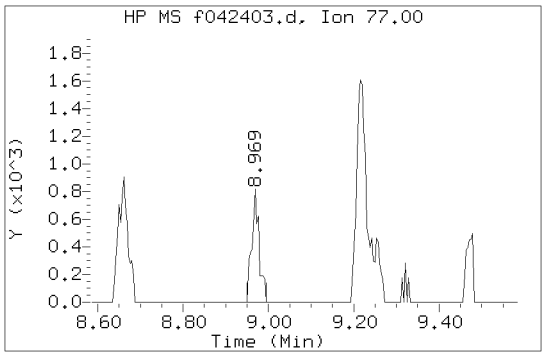
BEFORE

MASS
77
AREA
977
HEIGHT
819
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
77
AREA
977
HEIGHT
819
24-Apr-2024
13:49
firat
tastan

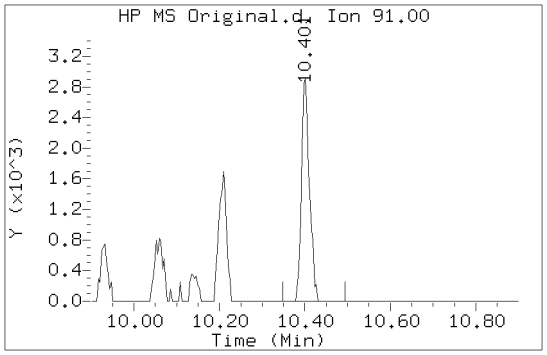


Benzyl Chloride (100-44-7)

Reason Code:

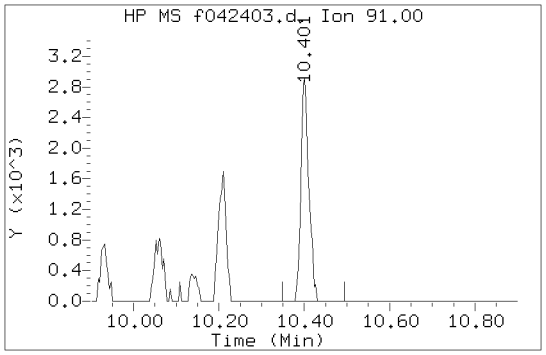
BEFORE

MASS
91
AREA
3896
HEIGHT
2904
24-Apr-2024
13:49
firat
tastan



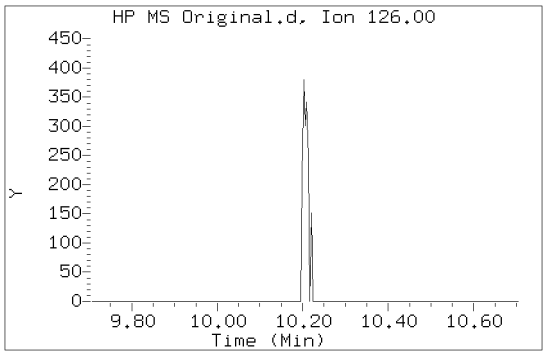
AFTER

MASS
91
AREA
3896
HEIGHT
2904
24-Apr-2024
13:49
firat
tastan



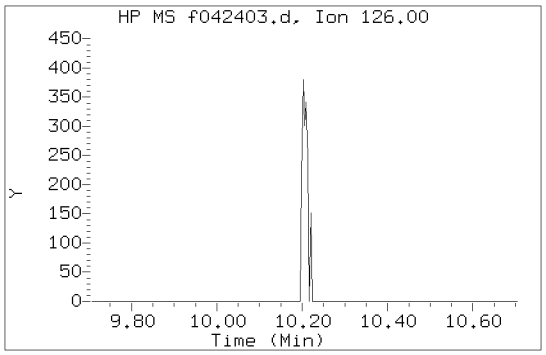
BEFORE

MASS
126
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
126
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



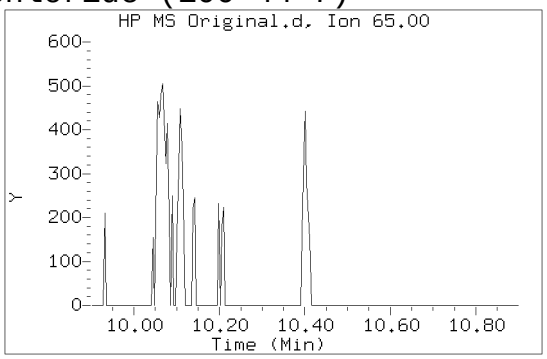
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Benzyl Chloride (100-44-7)

Reason Code:

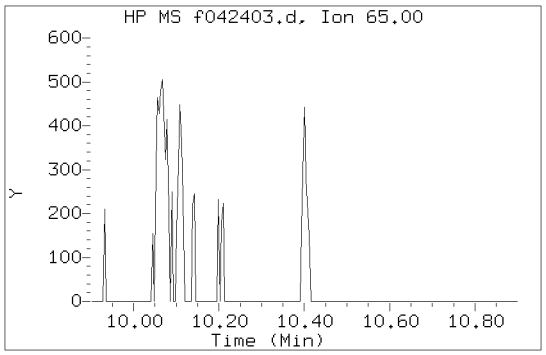
BEFORE

MASS
65
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
65
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

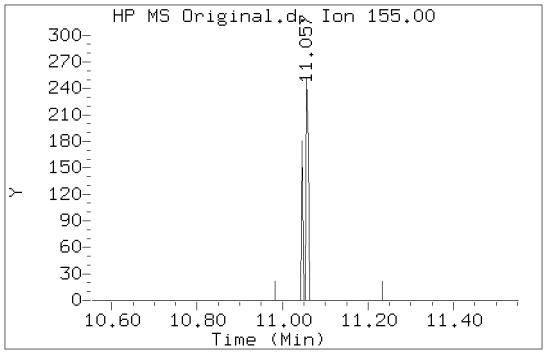


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

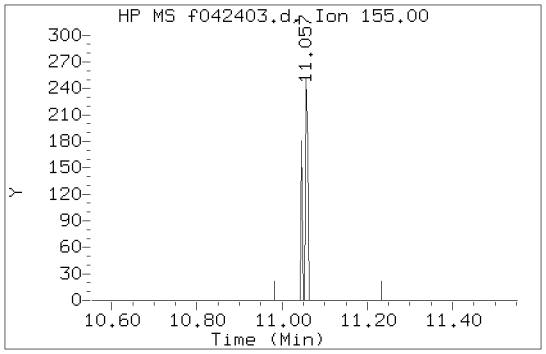
BEFORE

MASS
155
AREA
137
HEIGHT
251
24-Apr-2024
13:49
firat
tastan



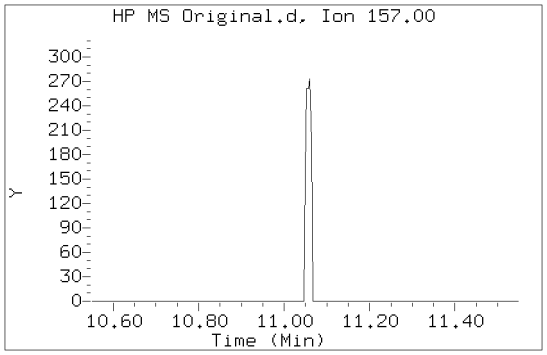
AFTER

MASS
155
AREA
137
HEIGHT
251
24-Apr-2024
13:49
firat
tastan



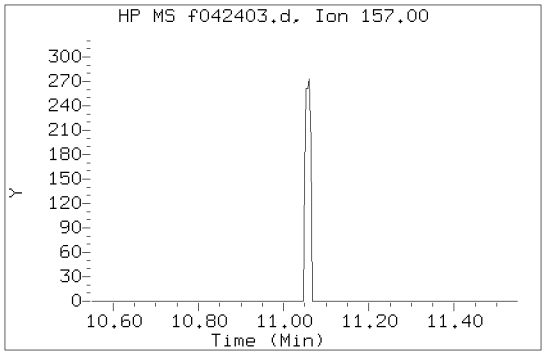
BEFORE

MASS
157
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



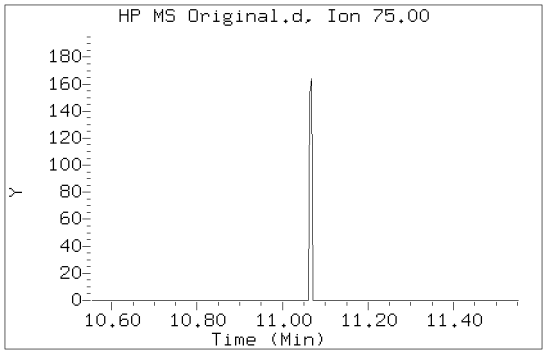
AFTER

MASS
157
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



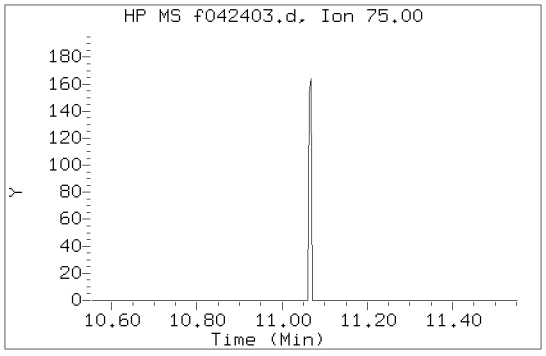
BEFORE

MASS
75
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
75
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



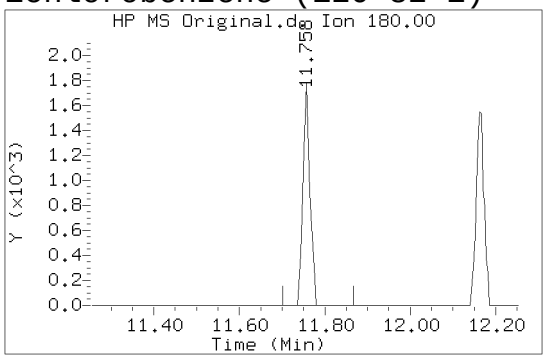
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

1,2,4-Trichlorobenzene (120-82-1)

Reason Code:

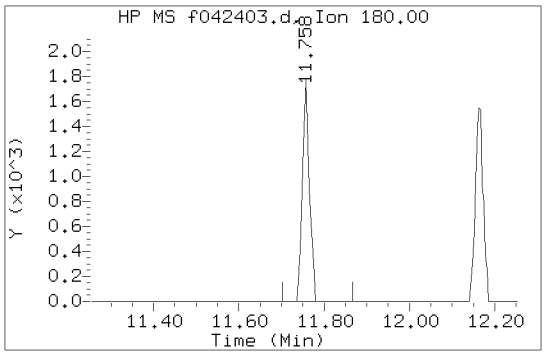
BEFORE

MASS
180
AREA
2088
HEIGHT
1774
24-Apr-2024
13:49
firat
tastan



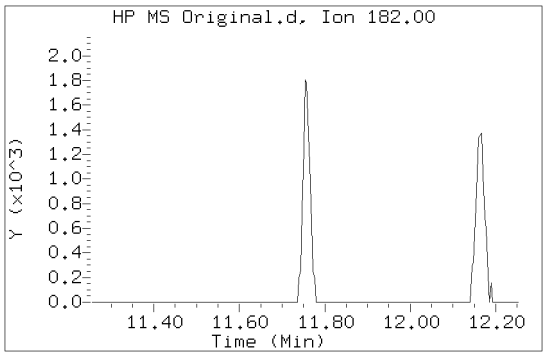
AFTER

MASS
180
AREA
2088
HEIGHT
1774
24-Apr-2024
13:49
firat
tastan



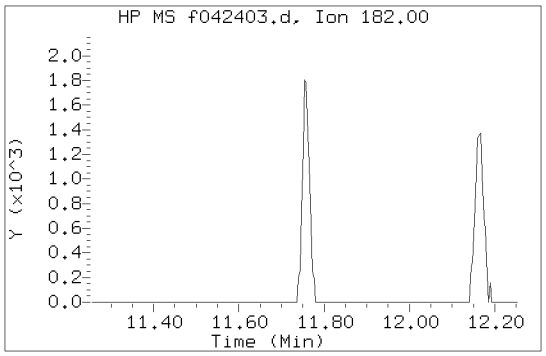
BEFORE

MASS
182
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



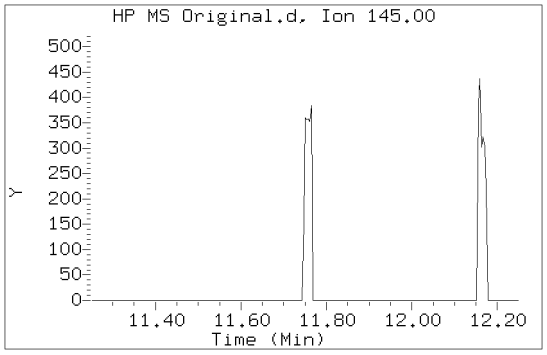
AFTER

MASS
182
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



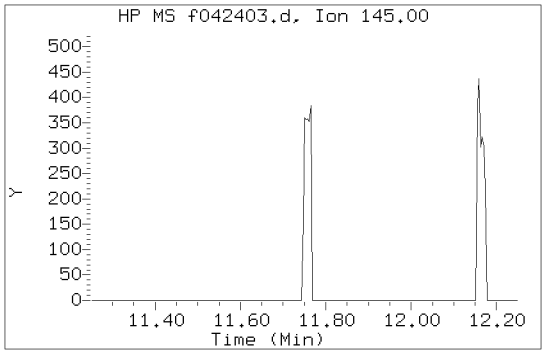
BEFORE

MASS
145
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
145
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

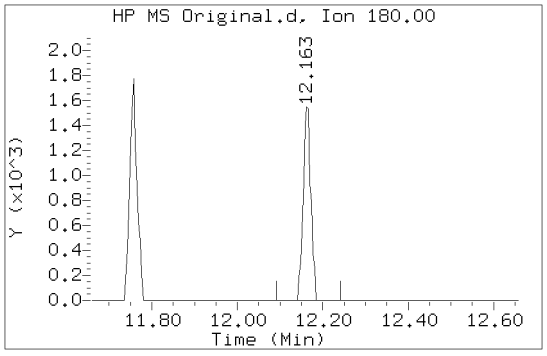


1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

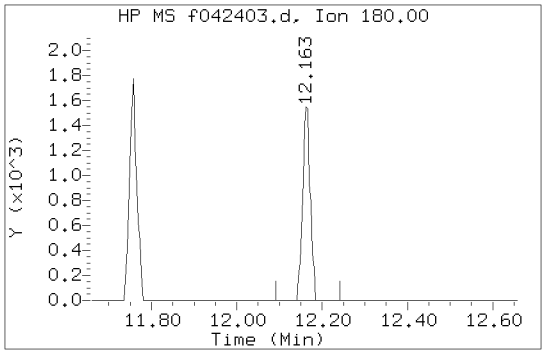
BEFORE

MASS
180
AREA
1989
HEIGHT
1549
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
180
AREA
1989
HEIGHT
1549
24-Apr-2024
13:49
firat
tastan



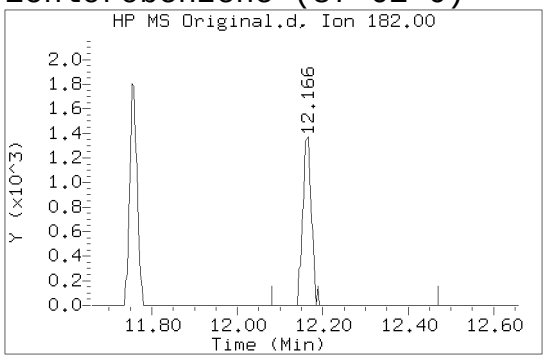
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

1,2,3-Trichlorobenzene (87-61-6)

Reason Code:

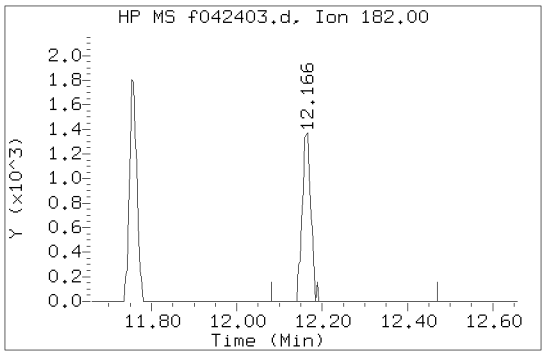
BEFORE

MASS
182
AREA
2010
HEIGHT
1371
24-Apr-2024
13:49
firat
tastan



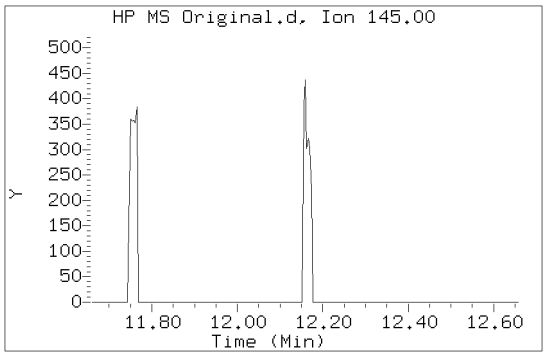
AFTER

MASS
182
AREA
2010
HEIGHT
1371
24-Apr-2024
13:49
firat
tastan



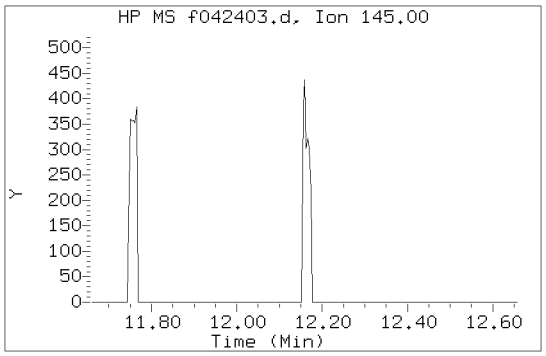
BEFORE

MASS
145
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
145
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

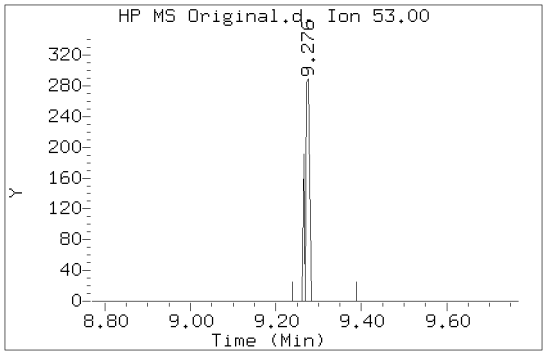


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

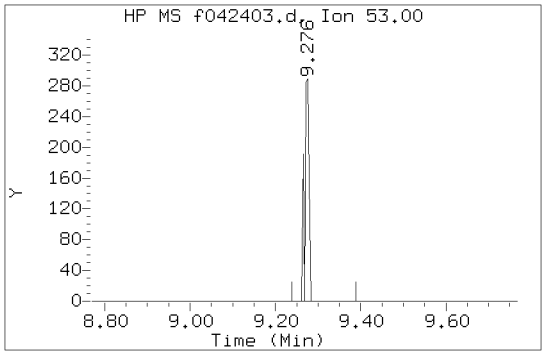
BEFORE

MASS
53
AREA
207
HEIGHT
289
24-Apr-2024
13:49
firat
tastan



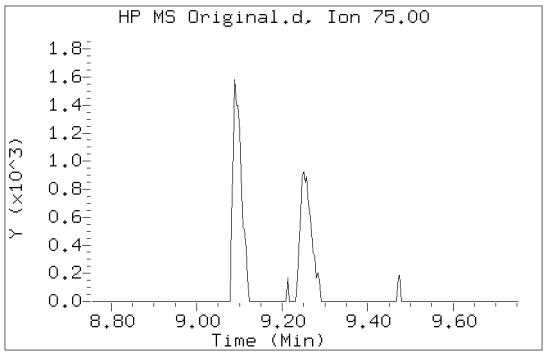
AFTER

MASS
53
AREA
207
HEIGHT
289
24-Apr-2024
13:49
firat
tastan



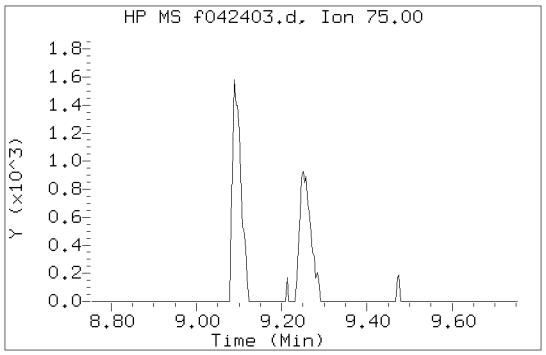
BEFORE

MASS
75
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
75
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



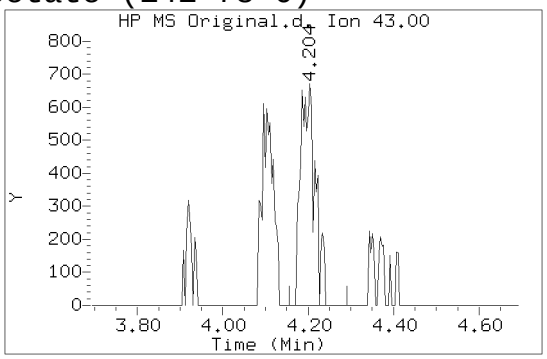
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Ethyl Acetate (141-78-6)

Reason Code:

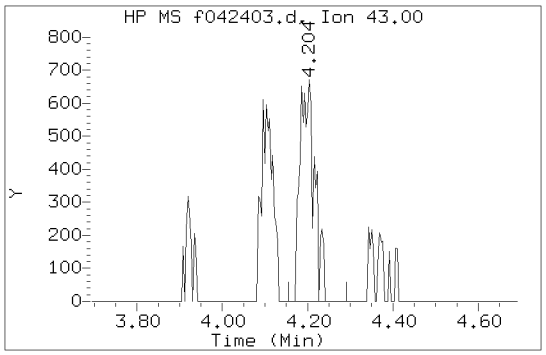
BEFORE

MASS
43
AREA
1629
HEIGHT
671
24-Apr-2024
13:49
firat
tastan



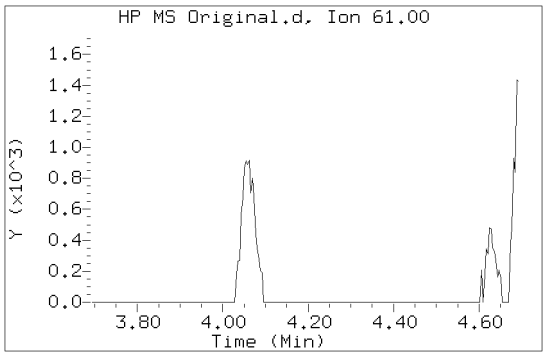
AFTER

MASS
43
AREA
1629
HEIGHT
671
24-Apr-2024
13:49
firat
tastan



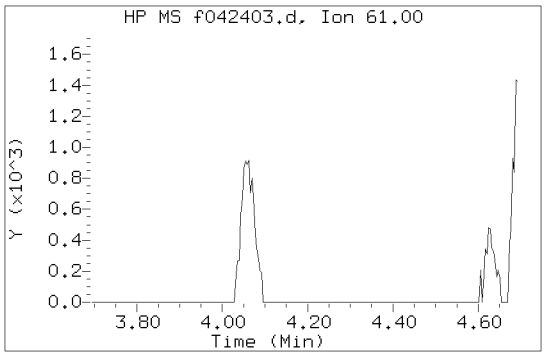
BEFORE

MASS
61
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



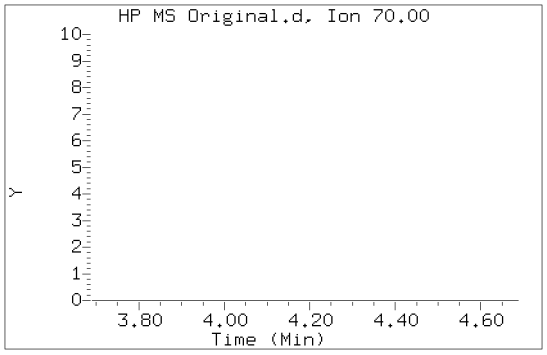
AFTER

MASS
61
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



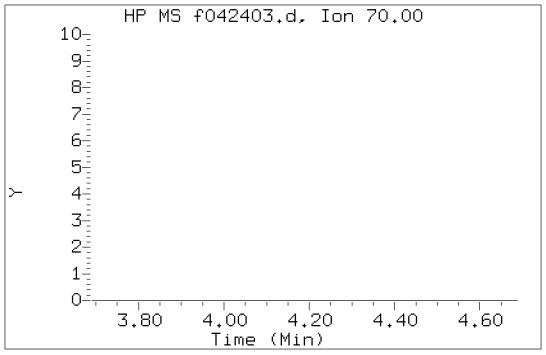
BEFORE

MASS
70
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
70
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

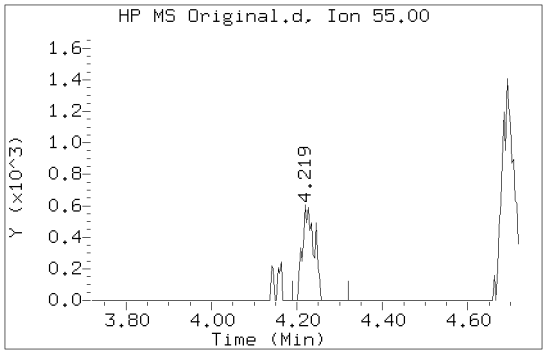


Methyl Acrylate (96-33-3)

Reason Code:

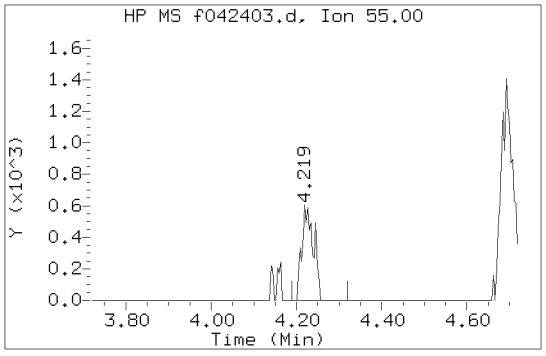
BEFORE

MASS
55
AREA
1168
HEIGHT
606
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
55
AREA
1168
HEIGHT
606
24-Apr-2024
13:49
firat
tastan



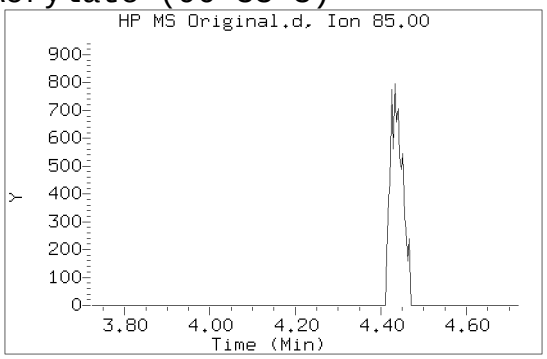
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Methyl Acrylate (96-33-3)

Reason Code:

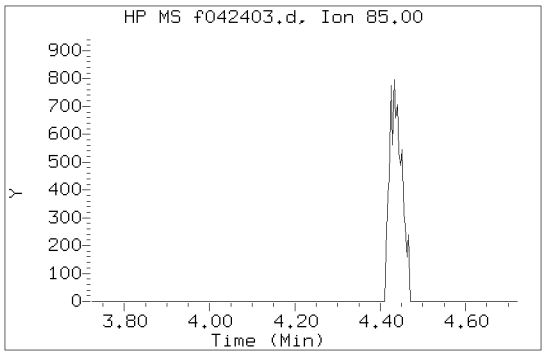
BEFORE

MASS
85
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

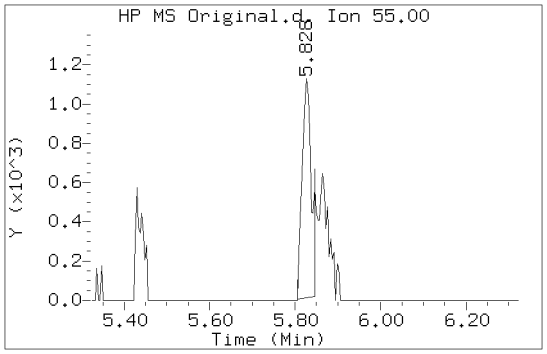


Ethyl Acrylate (140-88-5)

Reason Code:

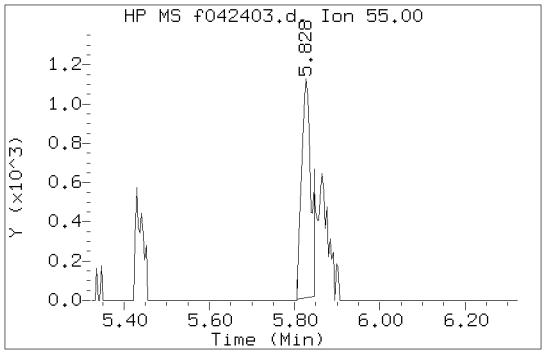
BEFORE

MASS
55
AREA
1703
HEIGHT
1116
24-Apr-2024
13:49
firat
tastan



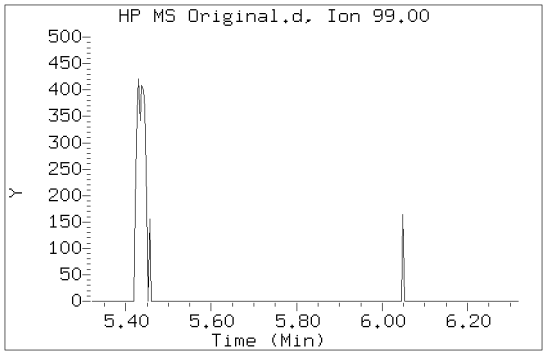
AFTER

MASS
55
AREA
1703
HEIGHT
1116
24-Apr-2024
13:49
firat
tastan



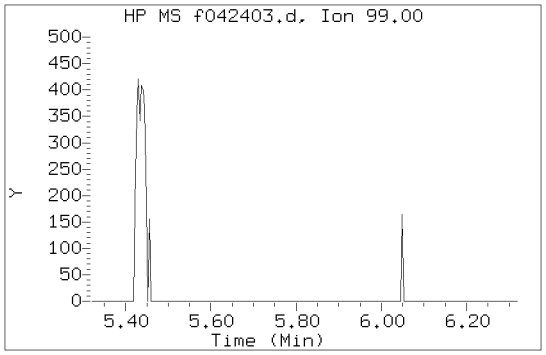
BEFORE

MASS
99
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
99
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

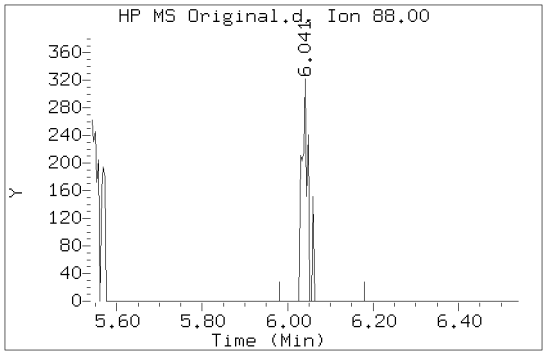


1,4-Dioxane ()

Reason Code:

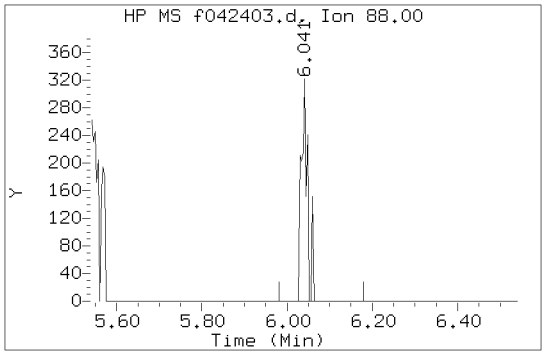
BEFORE

MASS
88
AREA
336
HEIGHT
322
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
88
AREA
336
HEIGHT
322
24-Apr-2024
13:49
firat
tastan



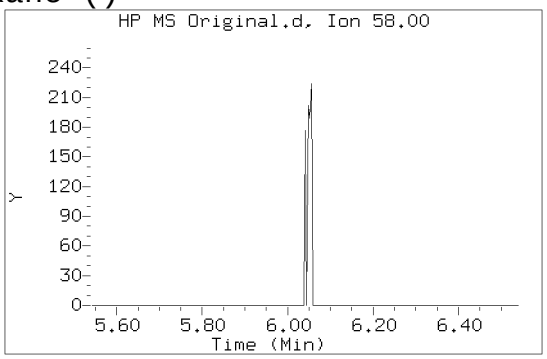
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

1,4-Dioxane ()

Reason Code:

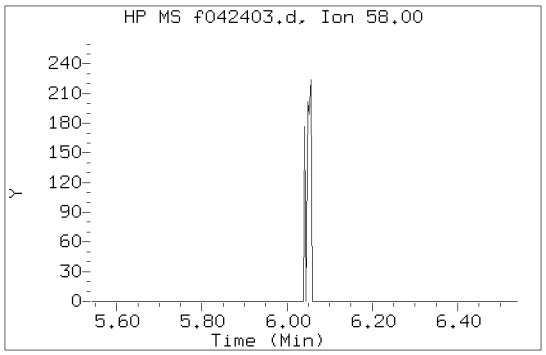
BEFORE

MASS
58
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
58
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

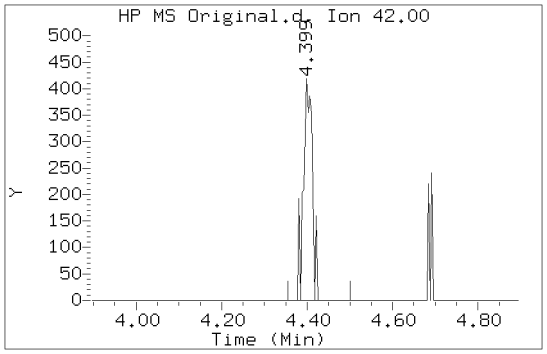


Tetrahydrofuran (109-99-9)

Reason Code:

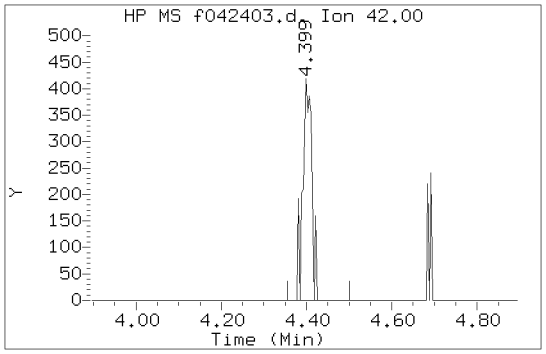
BEFORE

MASS
42
AREA
630
HEIGHT
419
24-Apr-2024
13:49
firat
tastan



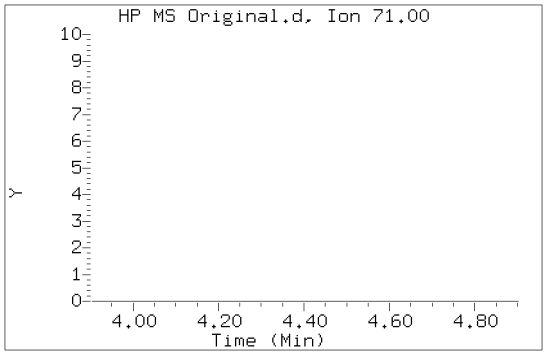
AFTER

MASS
42
AREA
630
HEIGHT
419
24-Apr-2024
13:49
firat
tastan



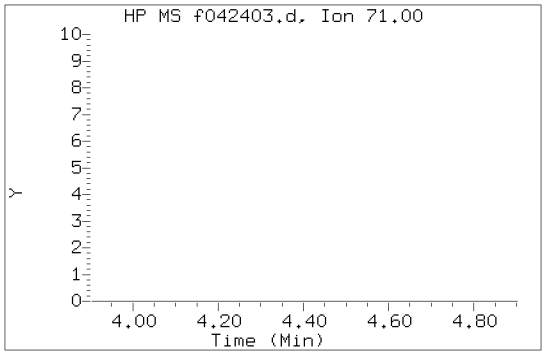
BEFORE

MASS
71
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
71
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

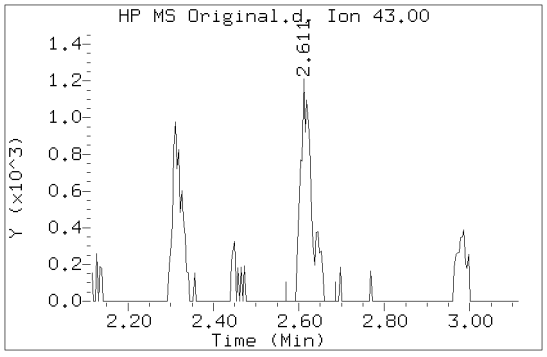


Methyl Acetate (79-20-9)

Reason Code:

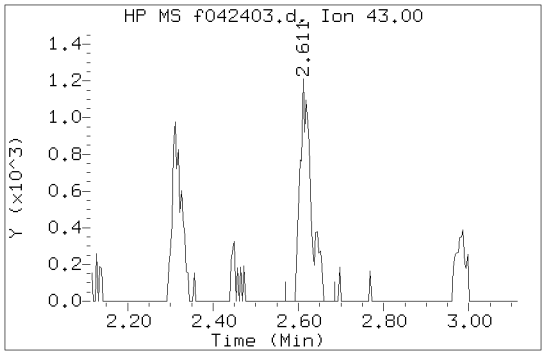
BEFORE

MASS
43
AREA
2213
HEIGHT
1211
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
43
AREA
2213
HEIGHT
1211
24-Apr-2024
13:49
firat
tastan

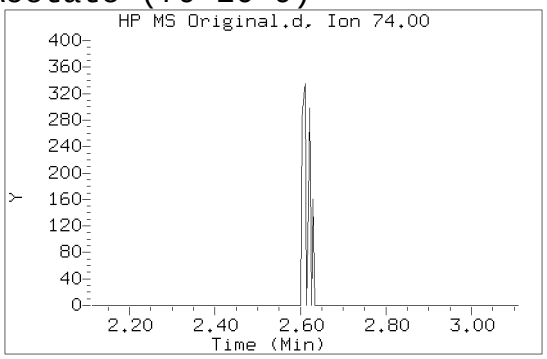


Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Methyl Acetate (79-20-9)

BEFORE

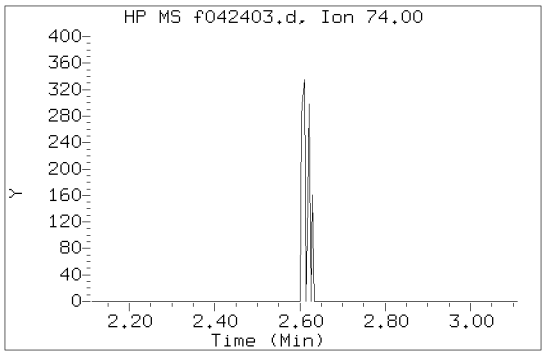
MASS
74
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



Reason Code:

AFTER

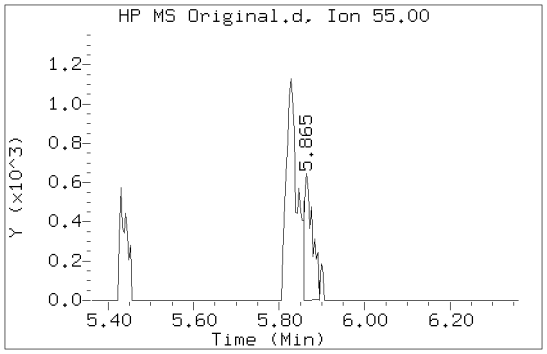
MASS
74
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



Methylcyclohexane (108-87-2)

BEFORE

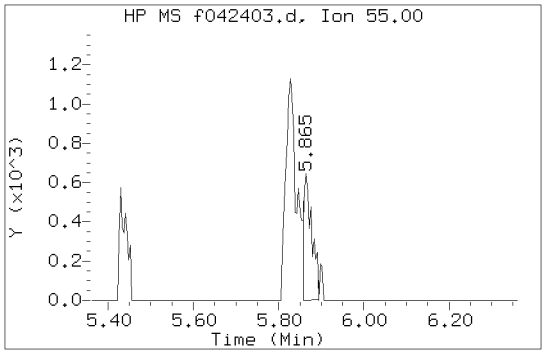
MASS
55
AREA
896
HEIGHT
644
24-Apr-2024
13:49
firat
tastan



Reason Code:

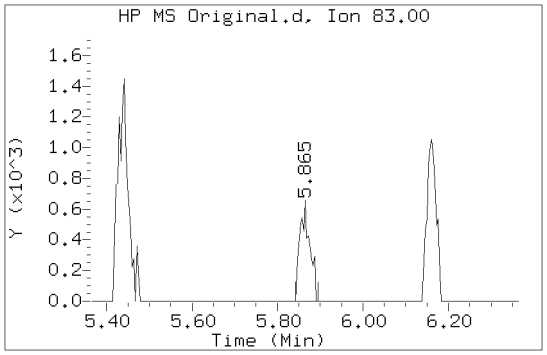
AFTER

MASS
55
AREA
896
HEIGHT
644
24-Apr-2024
13:49
firat
tastan



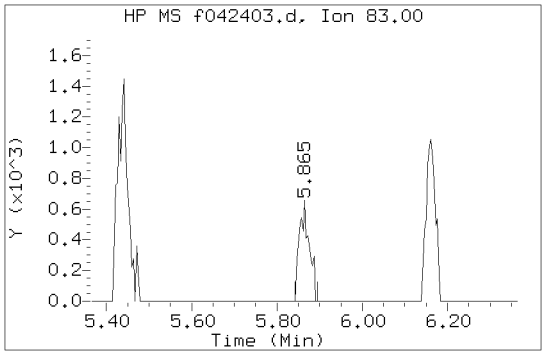
BEFORE

MASS
83
AREA
1080
HEIGHT
658
24-Apr-2024
13:49
firat
tastan



AFTER

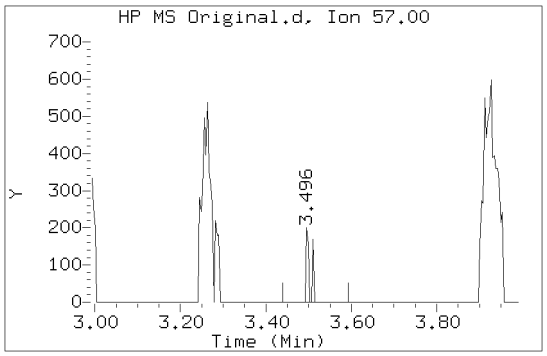
MASS
83
AREA
1080
HEIGHT
658
24-Apr-2024
13:49
firat
tastan



Allyl alcohol (107-18-6)

BEFORE

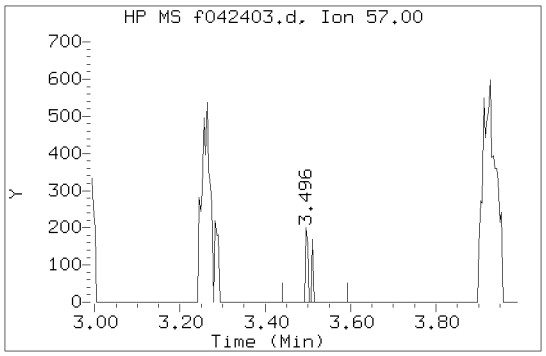
MASS
57
AREA
118
HEIGHT
201
24-Apr-2024
13:49
firat
tastan



Reason Code:

AFTER

MASS
57
AREA
118
HEIGHT
201
24-Apr-2024
13:49
firat
tastan

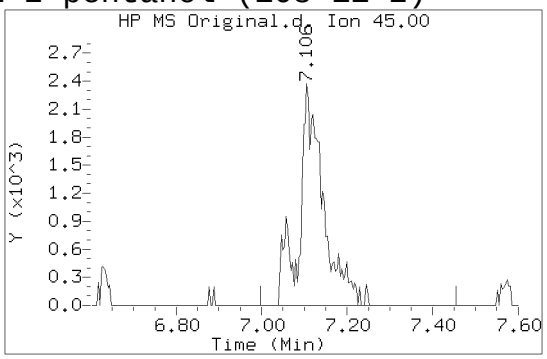


Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

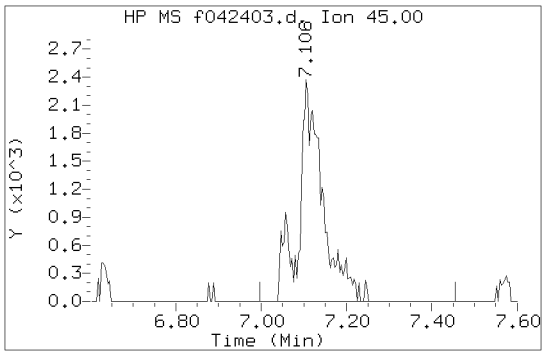
4-Methyl-2-pentanol (108-11-2)

Reason Code:

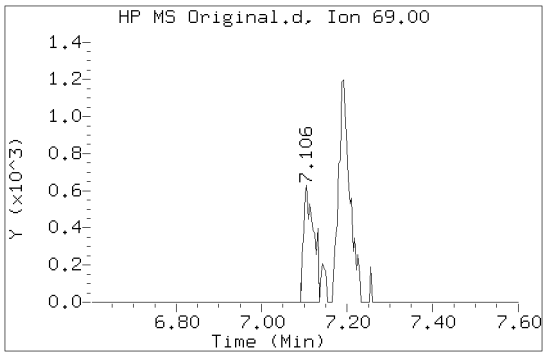
BEFORE
MASS
45
AREA
9348
HEIGHT
2372
24-Apr-2024
13:49
firat
tastan



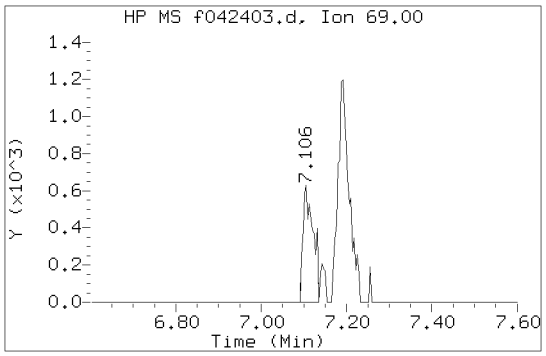
AFTER
MASS
45
AREA
9348
HEIGHT
2372
24-Apr-2024
13:49
firat
tastan



BEFORE
MASS
69
AREA
1054
HEIGHT
630
24-Apr-2024
13:49
firat
tastan



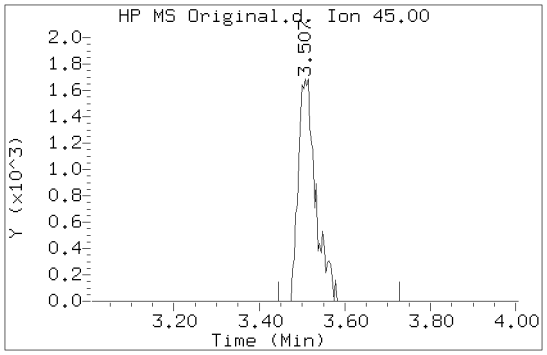
AFTER
MASS
69
AREA
1054
HEIGHT
630
24-Apr-2024
13:49
firat
tastan



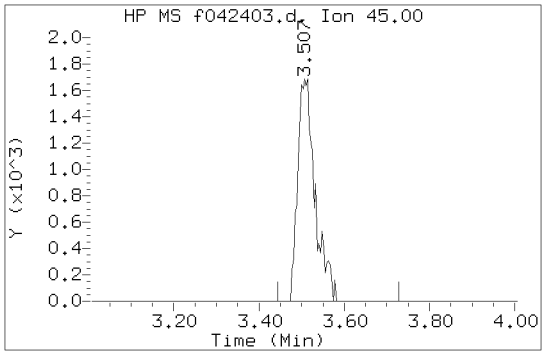
Diisopropyl ether (108-20-3)

Reason Code:

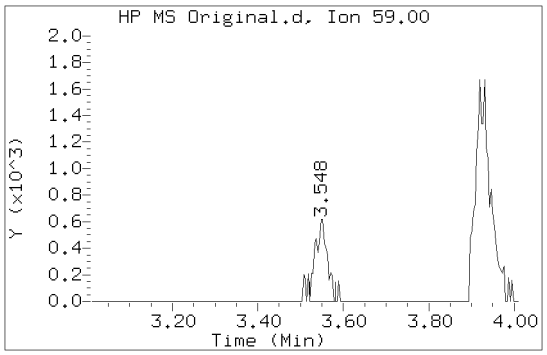
BEFORE
MASS
45
AREA
4840
HEIGHT
1688
24-Apr-2024
13:49
firat
tastan



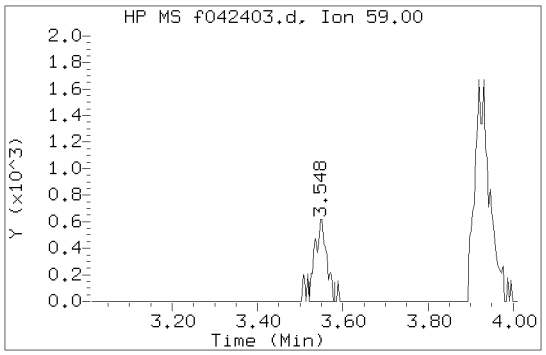
AFTER
MASS
45
AREA
4840
HEIGHT
1688
24-Apr-2024
13:49
firat
tastan



BEFORE
MASS
59
AREA
1156
HEIGHT
620
24-Apr-2024
13:49
firat
tastan



AFTER
MASS
59
AREA
1156
HEIGHT
620
24-Apr-2024
13:49
firat
tastan



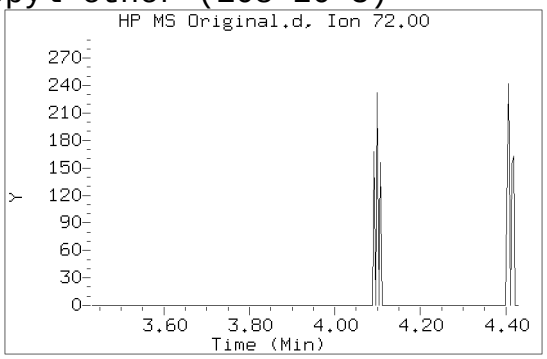
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Diisopropyl ether (108-20-3)

Reason Code:

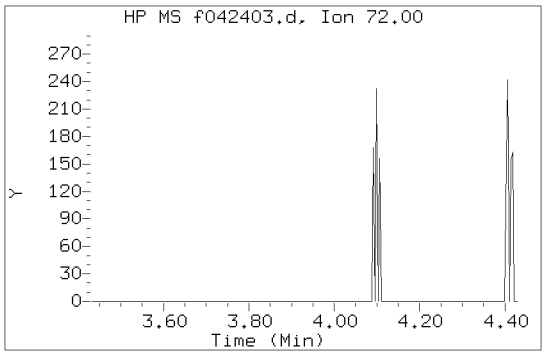
BEFORE

MASS
72
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
72
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

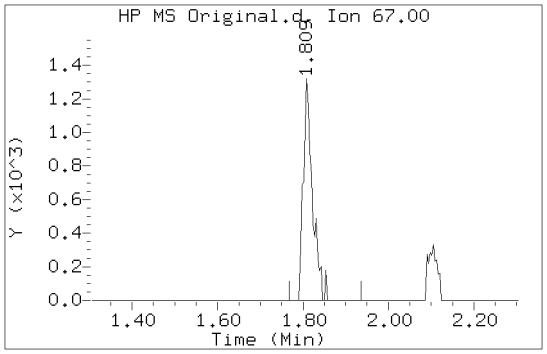


Dichlorofluoromethane (75-43-4)

Reason Code:

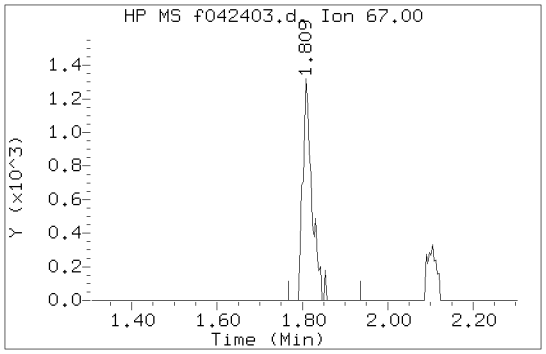
BEFORE

MASS
67
AREA
2019
HEIGHT
1320
24-Apr-2024
13:49
firat
tastan



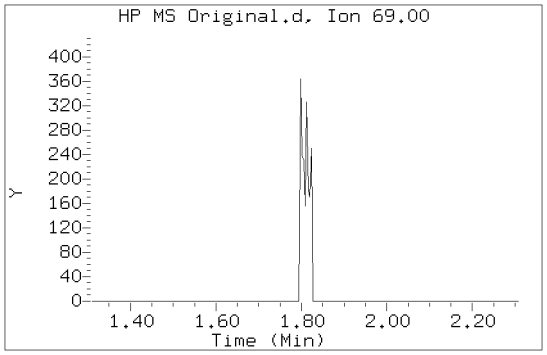
AFTER

MASS
67
AREA
2019
HEIGHT
1320
24-Apr-2024
13:49
firat
tastan



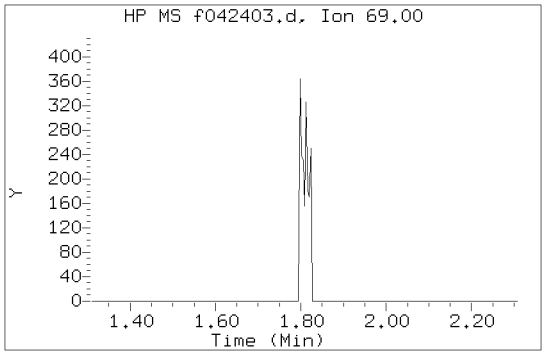
BEFORE

MASS
69
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



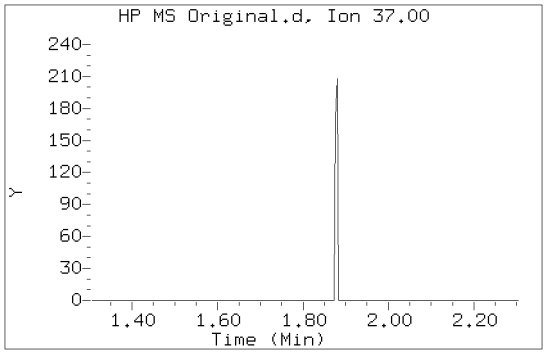
AFTER

MASS
69
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



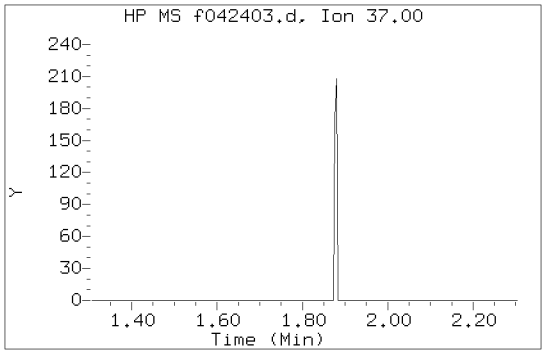
BEFORE

MASS
37
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
37
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



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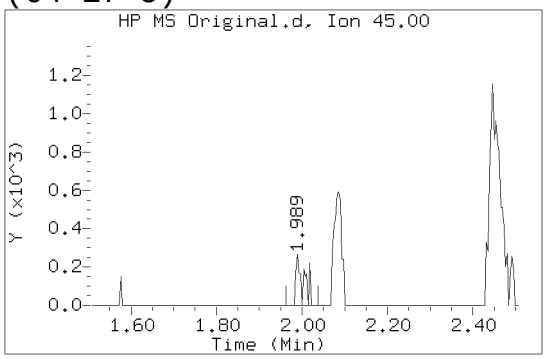
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Ethanol (64-17-5)

Reason Code:

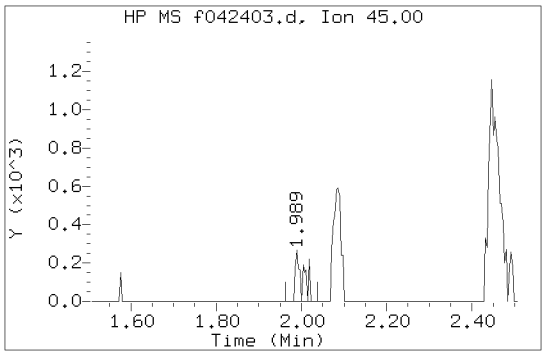
BEFORE

MASS
45
AREA
337
HEIGHT
267
24-Apr-2024
13:49
firat
tastan



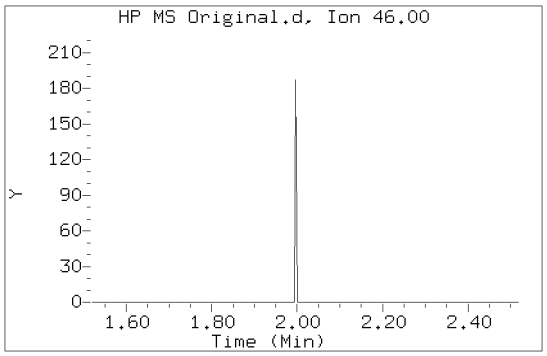
AFTER

MASS
45
AREA
337
HEIGHT
267
24-Apr-2024
13:49
firat
tastan



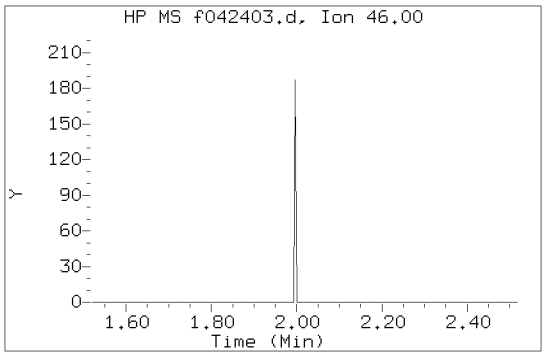
BEFORE

MASS
46
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



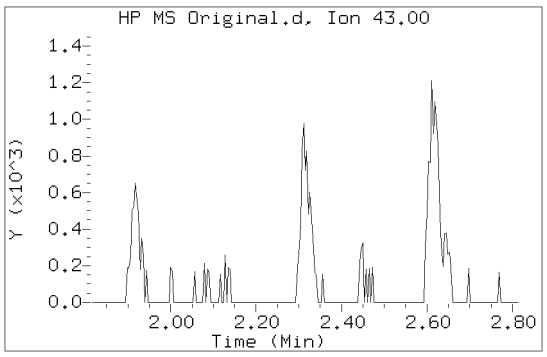
AFTER

MASS
46
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



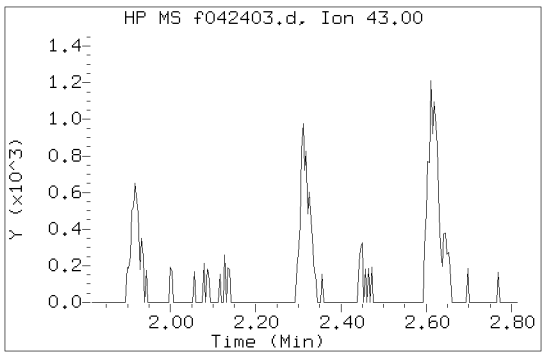
BEFORE

MASS
43
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
43
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

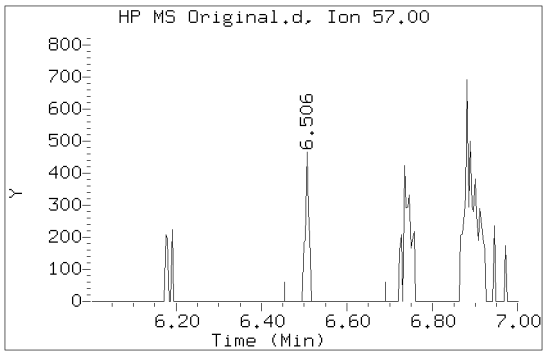


Epichlorohydrin (106-89-8)

Reason Code:

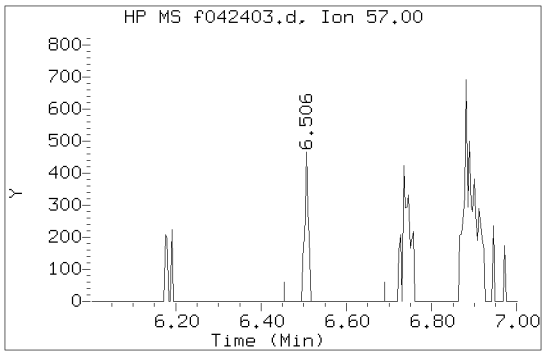
BEFORE

MASS
57
AREA
296
HEIGHT
466
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
57
AREA
296
HEIGHT
466
24-Apr-2024
13:49
firat
tastan



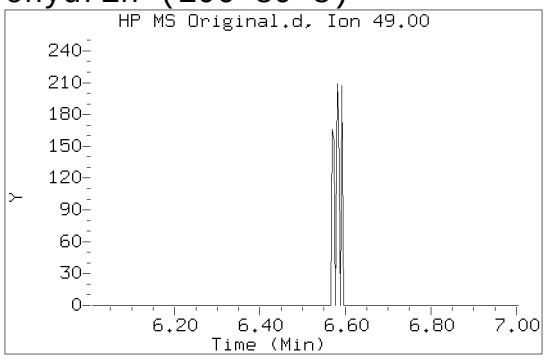
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042403.d
Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Epichlorohydrin (106-89-8)

Reason Code:

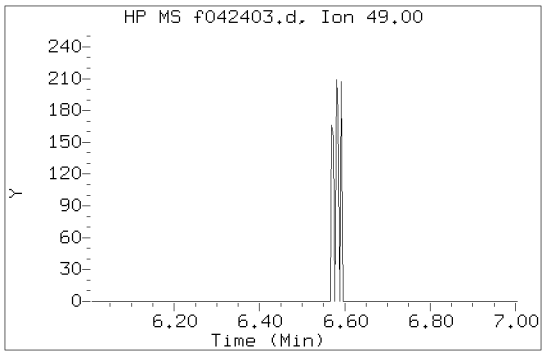
BEFORE

MASS
49
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
49
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

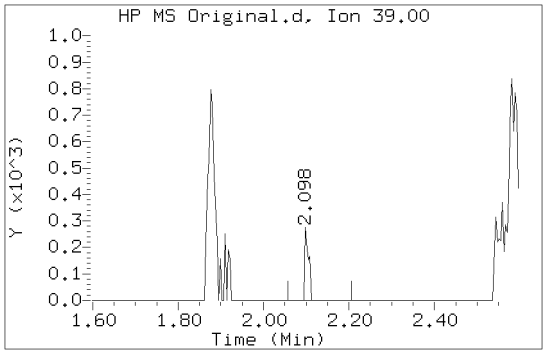


Isoprene (78-79-5)

Reason Code:

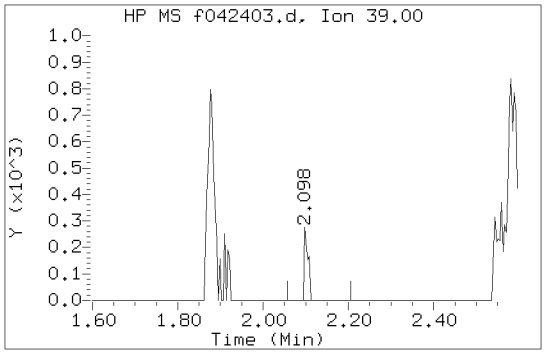
BEFORE

MASS
39
AREA
177
HEIGHT
277
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
39
AREA
177
HEIGHT
277
24-Apr-2024
13:49
firat
tastan



BEFORE

MASS
67
AREA
0
HEIGHT
0
24-Apr-2024
13:49
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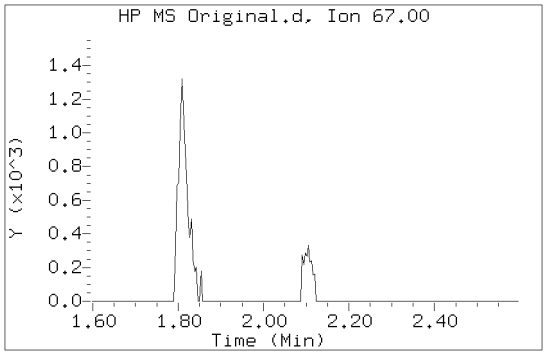
tastan



AFTER

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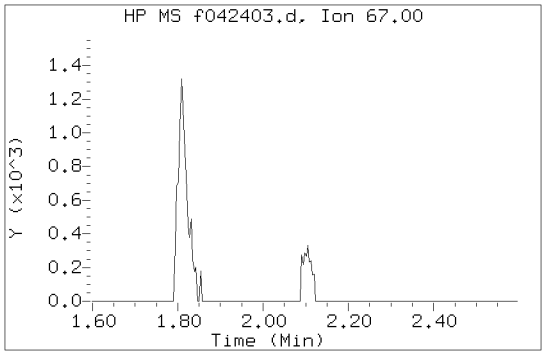

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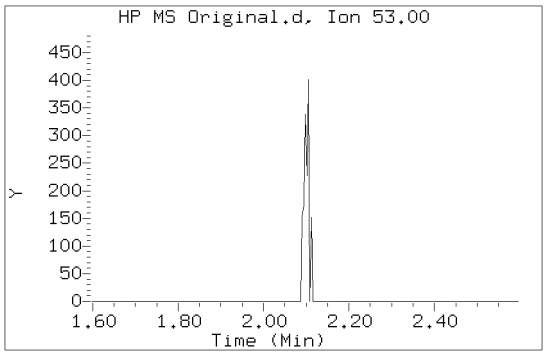

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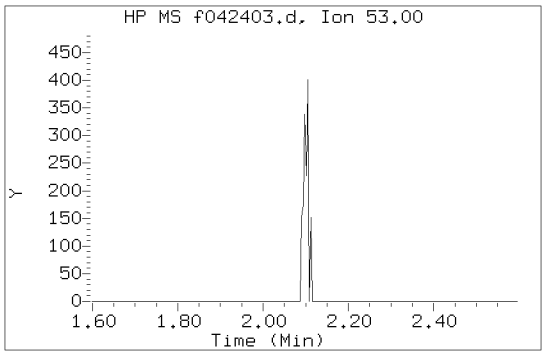

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Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

n-Butyl acetate (123-86-4)

Reason Code:

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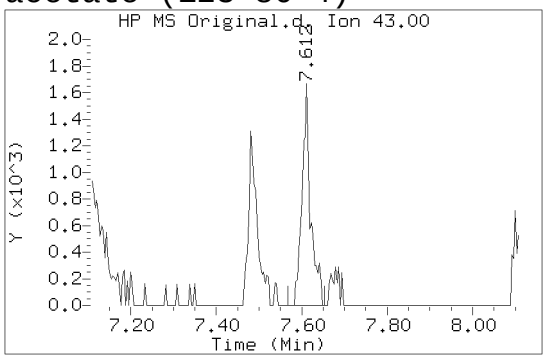

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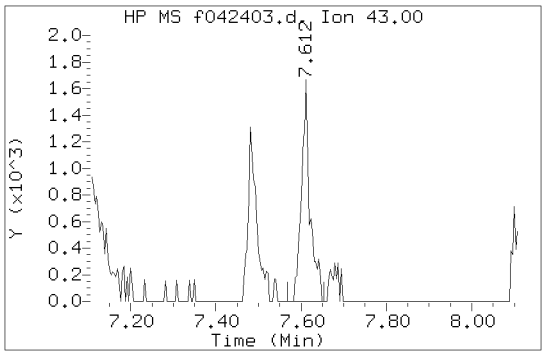

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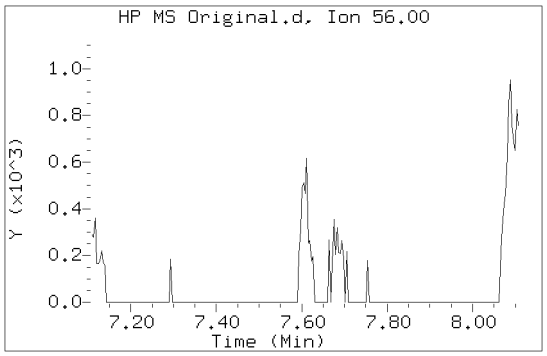

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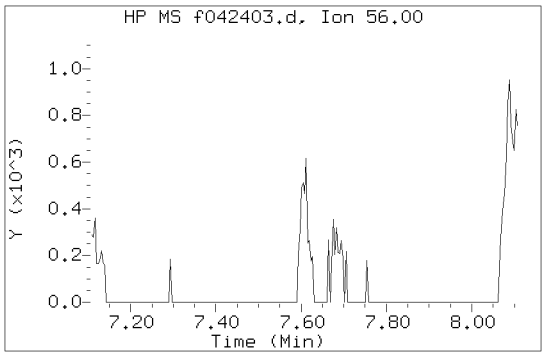

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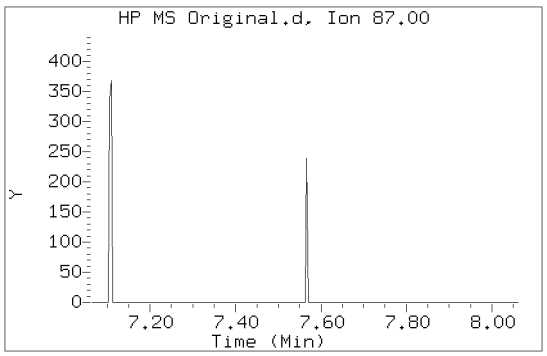

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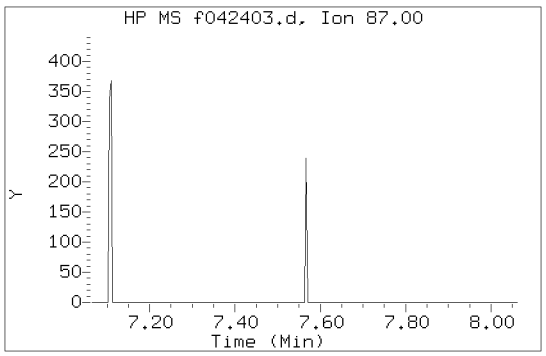

Acetaldehyde (75-07-0)

Reason Code:

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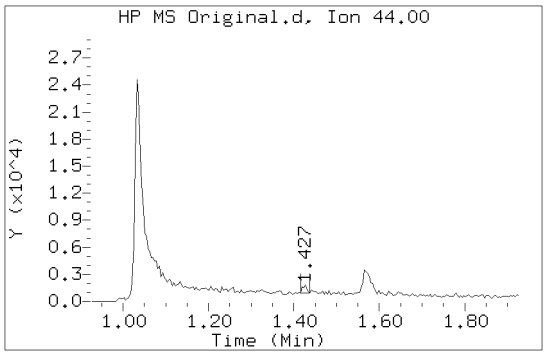

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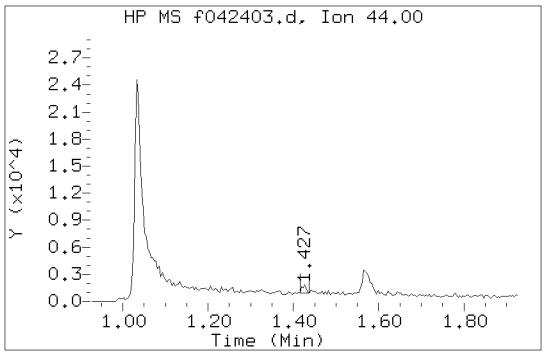

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Inj Date : 24-APR-2024 10:15
InstruID : voa10.i
LabSampID : VSTD001

Acetaldehyde (75-07-0)

Reason Code:

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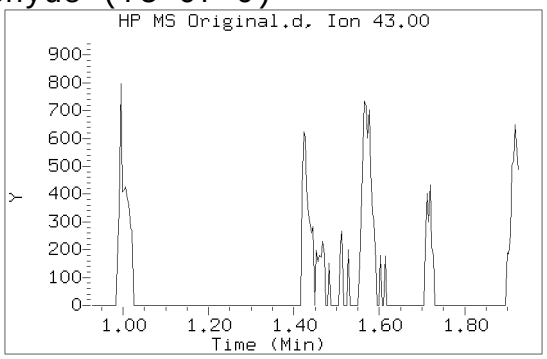

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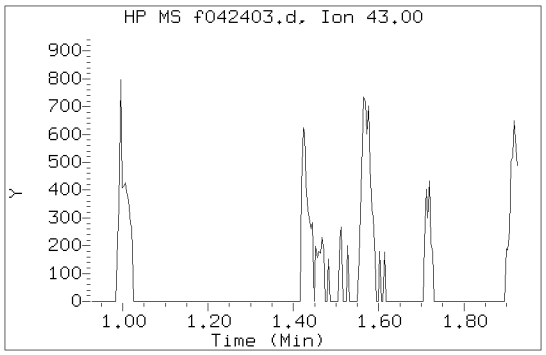

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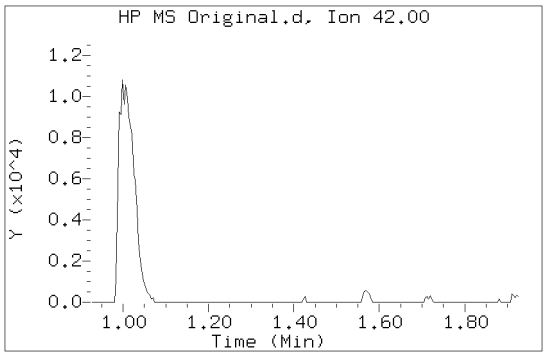

AFTER

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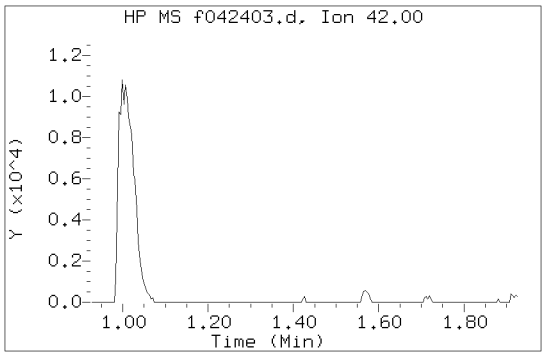

Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE

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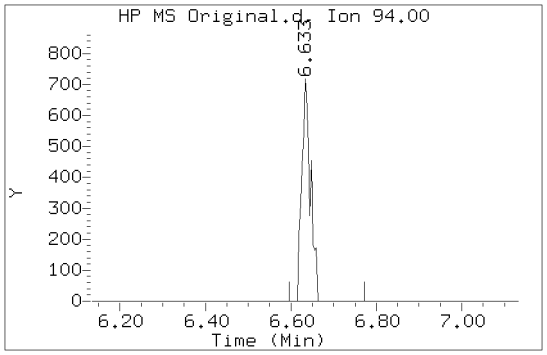

AFTER

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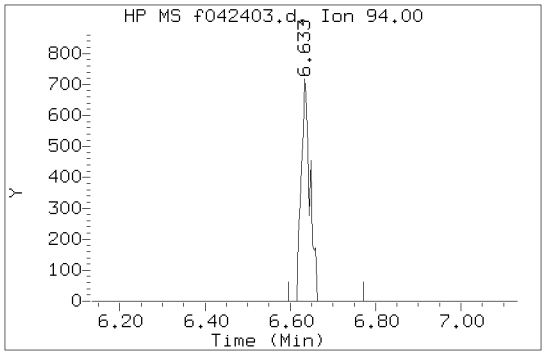

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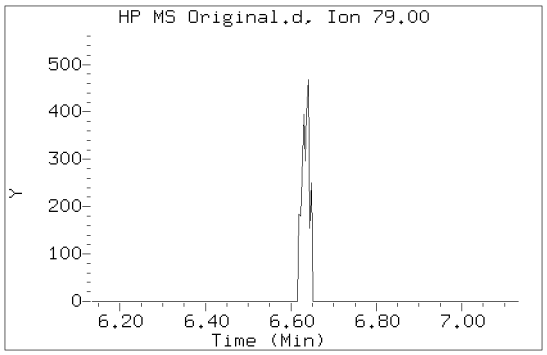

AFTER

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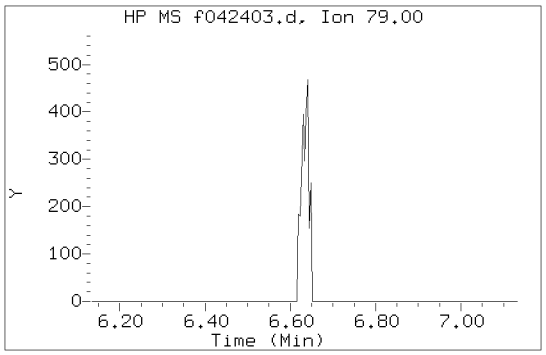

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InstruID : voa10.i
LabSampID : VSTD001

Dimethyl Disulfide (624-92-0)

Reason Code:

BEFORE

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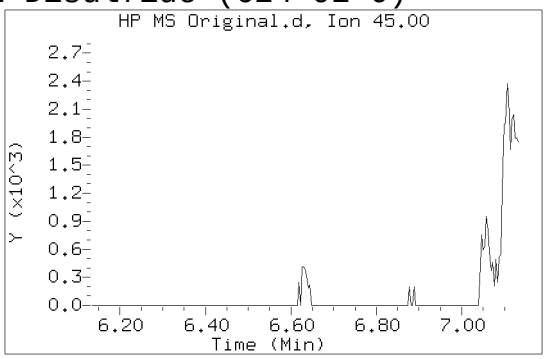

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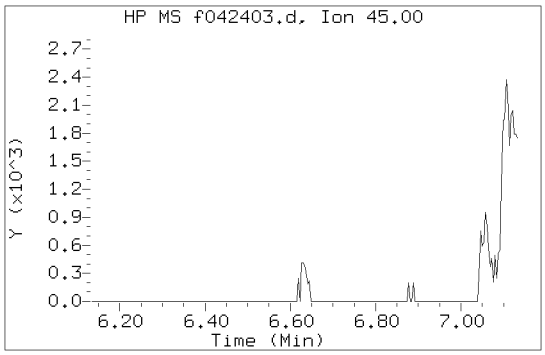

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Report Date: 24-Apr-2024 13:49

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa10.i\F240424.b\F042404.D
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Inj Date : 24-APR-2024 10:36
Operator : TS Inst ID: voa10.i
Smp Info : VSTD002;VSTD002;1;4
Misc Info : V10;WATER;0;1;
Comment :
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Meth Date : 24-Apr-2024 13:49 voa10.i Quant Type: ISTD
Cal Date : 24-APR-2024 10:15 Cal File: F042403.D
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7066

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	4.695	4.695	(1.000)	189689	50.0000	
2 Dichlorodifluoromethane	85	1.149	1.149	(0.245)	1432	2.00000	2.13(aM)
3 Chloromethane	50	1.291	1.291	(0.275)	2972	2.00000	1.82(a)
4 Propionitrile	54	4.159	4.159	(0.886)	4367	20.0000	19.69(aM)
5 Vinyl Chloride	62	1.355	1.355	(0.289)	2525	2.00000	2.90(a)
6 Bromomethane	94	1.583	1.583	(0.337)	1003	2.00000	4.36(a)
7 Chloroethane	64	1.658	1.658	(0.353)	1781	2.00000	1.92(aM)
8 Trichlorofluoromethane	101	1.850	1.850	(0.394)	2494	2.00000	1.94(a)
9 Acrolein	56	3.165	3.165	(0.674)	968	4.00000	7.98(a)
10 Acetone	43	2.314	2.314	(0.493)	2454	4.00000	0.86(a)
11 1,1-Dichloroethene	96	2.266	2.266	(0.483)	1930	2.00000	1.79(a)
12 Isobutyl Alcohol	43	5.163	5.163	(1.100)	8542	40.0000	37.26
13 Acetonitrile	39	2.588	2.588	(0.551)	3933	20.0000	17.83(M)
14 Allyl Chloride	41	2.588	2.588	(0.551)	8332	2.00000	2.08(M)
15 Iodomethane	142	2.386	2.386	(0.508)	1994	4.00000	8.41(T)
16 Acrylonitrile	53	2.929	2.929	(0.624)	1974	4.00000	2.78(a)
17 Methylene Chloride	84	2.697	2.697	(0.574)	4039	2.00000	2.14(a)
18 Methyl tert-butyl ether	73	2.982	2.982	(0.635)	7549	2.00000	1.82
19 Carbon Disulfide	76	2.446	2.446	(0.521)	13430	4.00000	3.46(a)
20 trans-1,2-Dichloroethene	96	2.967	2.967	(0.632)	2390	2.00000	1.81(a)

21 Vinyl Acetate	43	4.192	4.192 (0.893)	3485	4.00000	4.13(aM)
22 1,1-Dichloroethane	63	3.394	3.394 (0.723)	5019	2.00000	2.00(Ta)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
23	Chloroprene	53	3.510	3.510	(0.748)	2979	2.00000	2.01(a)
24	2-Butanone	43	4.103	4.103	(0.874)	2809	4.00000	4.08(aM)
25	Methacrylonitrile	41	4.327	4.327	(0.922)	2432	2.00000	1.69(a)
26	2,2-Dichloropropane	77	4.061	4.061	(0.865)	2965	2.00000	2.44(aM)
27	cis-1,2-Dichloroethene	96	4.061	4.061	(0.865)	2814	2.00000	1.84(a)
28	Chloroform	83	4.440	4.440	(0.946)	4925	2.00000	1.99(a)
29	Bromochloromethane	128	4.324	4.324	(0.921)	1521	2.00000	0.82(a)
$ 30	Dibromofluoromethane	113	4.612	4.612	(0.982)	2793	2.00000	1.97(a)
31	1,1,1-Trichloroethane	97	4.624	4.624	(0.985)	3198	2.00000	2.02(a)
32	1,1-Dichloropropene	75	4.811	4.811	(0.885)	3969	2.00000	1.88(a)
33	1,2-Dichloroethane	62	5.036	5.036	(0.926)	4072	2.00000	2.06(a)
34	Carbon Tetrachloride	117	4.800	4.800	(0.883)	3255	2.00000	1.79(a)
$ 35	1,2-Dichloroethane-d4	65	4.965	4.965	(1.057)	3526	2.00000	2.12(a)
* 36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	249836	50.0000	
37	Benzene	78	5.021	5.021	(0.923)	11525	2.00000	1.91
38	Trichloroethene	130	5.677	5.677	(1.044)	3348	2.00000	1.96(a)
39	Bromodichloromethane	83	6.157	6.157	(1.132)	3143	2.00000	1.75(aM)
40	Methyl Methacrylate	41	6.044	6.044	(1.287)	2778	2.00000	1.61
42	1,2-Dichloropropane	63	5.887	5.887	(1.083)	2931	2.00000	1.88(aM)
43	2-Nitropropane	43	6.374	6.374	(1.358)	649	2.00000	3.89(aM)
44	Dibromomethane	93	6.003	6.003	(1.104)	1787	2.00000	2.07(a)
45	4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	6200	4.00000	1.05(a)
46	cis-1,3-Dichloropropene	75	6.580	6.580	(1.210)	3316	2.00000	1.70(a)
* 47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	220328	50.0000	
$ 48	Toluene-d8	98	6.820	6.820	(0.844)	10807	2.00000	0.53(a)
49	Ethyl Methacrylate	69	7.188	7.188	(1.322)	4100	2.00000	1.80(a)
50	Toluene	91	6.880	6.880	(0.851)	12089	2.00000	0.56(a)
51	trans-1,3-Dichloropropene	75	7.086	7.086	(1.303)	2516	2.00000	3.55(a)
52	2-Hexanone	43	7.480	7.480	(0.925)	3793	4.00000	1.67(a)
53	1,1,2-Trichloroethane	83	7.236	7.236	(0.895)	2215	2.00000	0.57(a)
54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	4350	2.00000	0.55(a)
55	Dibromochloromethane	129	7.581	7.581	(0.938)	2426	2.00000	0.48(a)
56	Tetrachloroethene	164	7.364	7.364	(0.911)	2044	2.00000	0.45(a)
57	1,2-Dibromoethane	107	7.671	7.671	(0.949)	2249	2.00000	0.59(a)
58	1-Chlorohexane	55	8.106	8.106	(1.491)	4012	2.00000	2.56(aM)
59	Chlorobenzene	112	8.110	8.110	(1.003)	8244	2.00000	0.58(a)
60	1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	2299	2.00000	0.49(a)
61	Ethylbenzene	106	8.207	8.207	(1.015)	4042	2.00000	0.56(aM)
62	m,p-Xylenes	106	8.312	8.312	(1.028)	9732	4.00000	1.08(a)
63	o-Xylene	106	8.650	8.650	(1.070)	5219	2.00000	0.58(aM)
64	Styrene	104	8.665	8.665	(1.072)	7792	2.00000	0.52(a)
66	Bromoform	173	8.807	8.807	(1.089)	1775	2.00000	1.10(Ta)
67	Isopropylbenzene	105	8.968	8.968	(1.109)	11011	2.00000	0.51(a)
68	1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	3644	2.00000	1.97(aM)
$ 69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	5978	2.00000	0.89(a)
* 70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	116360	50.0000	
71	1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	3925	2.00000	2.10(aM)
72	trans-1,4-Dichloro-2-butene	53	9.272	9.272	(1.147)	491	2.00000	0.90(aM)
73	n-Propylbenzene	91	9.321	9.321	(0.926)	12164	2.00000	1.79(a)
74	Bromobenzene	156	9.212	9.212	(0.915)	4039	2.00000	2.08(a)
75	1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	9384	2.00000	1.81(a)
76	2-Chlorotoluene	91	9.384	9.384	(0.932)	8730	2.00000	1.97(a)

77 4-Chlorotoluene	91	9.478	9.478 (0.941)	9702	2.00000	1.93(a)
78 tert-Butylbenzene	119	9.744	9.744 (0.968)	7512	2.00000	1.78(a)

	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	9.785	9.785	(0.972)	9711	2.00000	1.86(a)
81	sec-Butylbenzene	105	9.928	9.928	(0.986)	9541	2.00000	1.73(a)
82	p-Isopropyltoluene	119	10.055	10.055	(0.999)	9070	2.00000	1.76(a)
83	1,3-Dichlorobenzene	146	10.018	10.018	(0.995)	6421	2.00000	1.90(a)
84	1,4-Dichlorobenzene	146	10.089	10.089	(1.002)	6935	2.00000	1.96(a)
87	n-Butylbenzene	91	10.396	10.396	(1.032)	7634	2.00000	1.71(a)
88	1,2-Dichlorobenzene	146	10.404	10.404	(1.033)	6679	2.00000	1.96(a)
89	1,2-Dibromo-3-Chloropropane	155	11.056	11.056	(1.098)	421	2.00000	2.66(aM)
90	1,2,4-Trichlorobenzene	180	11.753	11.753	(1.167)	4526	2.00000	1.82(a)
91	Hexachlorobutadiene	225	11.900	11.900	(1.182)	2031	2.00000	2.16(a)
92	Naphthalene	128	11.956	11.956	(1.187)	12180	2.00000	1.21(a)
93	1,2,3-Trichlorobenzene	180	12.162	12.162	(1.208)	4194	2.00000	1.85(a)
135	1,4-Dioxane	88	6.048	6.048	(1.288)	708	40.0000	48.57(aM)
130	Ethyl Acetate	43	4.192	4.192	(0.893)	3484	2.00000	2.04(aM)
136	n-Hexane	57	3.263	3.263	(0.695)	1287	2.00000	2.81(Ta)
138	Freon TF	101	2.269	2.269	(0.483)	1419	2.00000	2.07(a)
141	Cyclohexane	56	4.691	4.691	(0.999)	4708	2.00000	2.01(a)
142	Tetrahydrofuran	42	4.406	4.406	(0.939)	925	4.00000	3.24(aM)
146	Methyl Acetate	43	2.611	2.611	(0.556)	4833	2.00000	2.09(aM)
147	Methylcyclohexane	55	5.857	5.857	(1.077)	2310	2.00000	1.26(aM)
149	Isopropyl alcohol	45	2.449	2.449	(0.522)	3870	40.0000	36.05
151	4-Methyl-2-pentanol	45	7.105	7.105	(1.307)	19483	40.0000	71.95(M)
156	Diisopropyl ether	45	3.503	3.503	(0.746)	9197	2.00000	1.81(Ta)
158	Dichlorofluoromethane	67	1.805	1.805	(0.384)	3984	2.00000	1.85(M)
166	1,2,3-Trimethylbenzene	105	10.138	10.138	(1.007)	10312	2.00000	2.00(a)
160	2-Methylnaphthalene	142	12.908	12.908	(1.282)	4057	2.00000	3.25(a)
180	1-Methylnaphthalene	142	13.065	13.065	(1.297)	3693	2.00000	2.64(a)
174	tert-Amyl methyl ether	73	5.175	5.175	(1.102)	7754	2.00000	1.79(a)
175	tert-Butyl ethyl ether	59	3.926	3.926	(0.836)	8002	2.00000	1.80(a)
140	1,3-Butadiene	54	1.377	1.377	(0.293)	1753	2.00000	2.28(a)
189	n-Butyl acetate	43	7.607	7.607	(0.941)	5981	2.00000	0.62(aM)
86	Benzyl Chloride	91	10.396	10.396	(1.286)	7634	2.00000	0.48(a)
178	Ethylene oxide	44	1.568	1.568	(0.334)	10217	4.00000	4.41(a)
182	Epichlorohydrin	57	6.498	6.498	(1.195)	840	8.00000	12.27(M)
185	Isoprene	39	2.104	2.104	(0.448)	414	2.00000	2.22(aM)
150	Allyl alcohol	57	3.476	3.476	(0.741)	673	40.0000	81.63(M)
162	Butyl acrylate	55	8.642	8.642	(1.069)	4638	2.00000	1.16(a)
194	Acetaldehyde	44	1.422	1.422	(0.303)	2029	8.00000	1.15(aM)
131	Methyl Acrylate	55	4.226	4.226	(0.900)	2594	2.00000	2.03(aM)
133	Ethyl Acrylate	55	5.827	5.827	(1.241)	3235	2.00000	1.82(aM)
203	2-Ethylhexyl Acrylate	55	11.945	11.945	(1.186)	1783	2.00000	3.00(aA)
204	2-Chloropropene	41	1.880	1.880	(0.400)	2873	2.00000	0.64(aA)
163	Butyl methacrylate	41	9.561	9.561	(0.949)	3759	2.00000	2.59(a)
167	Ethanol	45	2.000	2.000	(0.426)	775	40.0000	32.42(M)
200	Dimethyl Disulfide	94	6.629	6.629	(0.820)	1978	2.00000	0.98(a)
M 94	1,2-Dichloroethylene (total)	96				5204	4.00000	(a)
M 95	Xylenes (total)	106				14951	6.00000	(a)

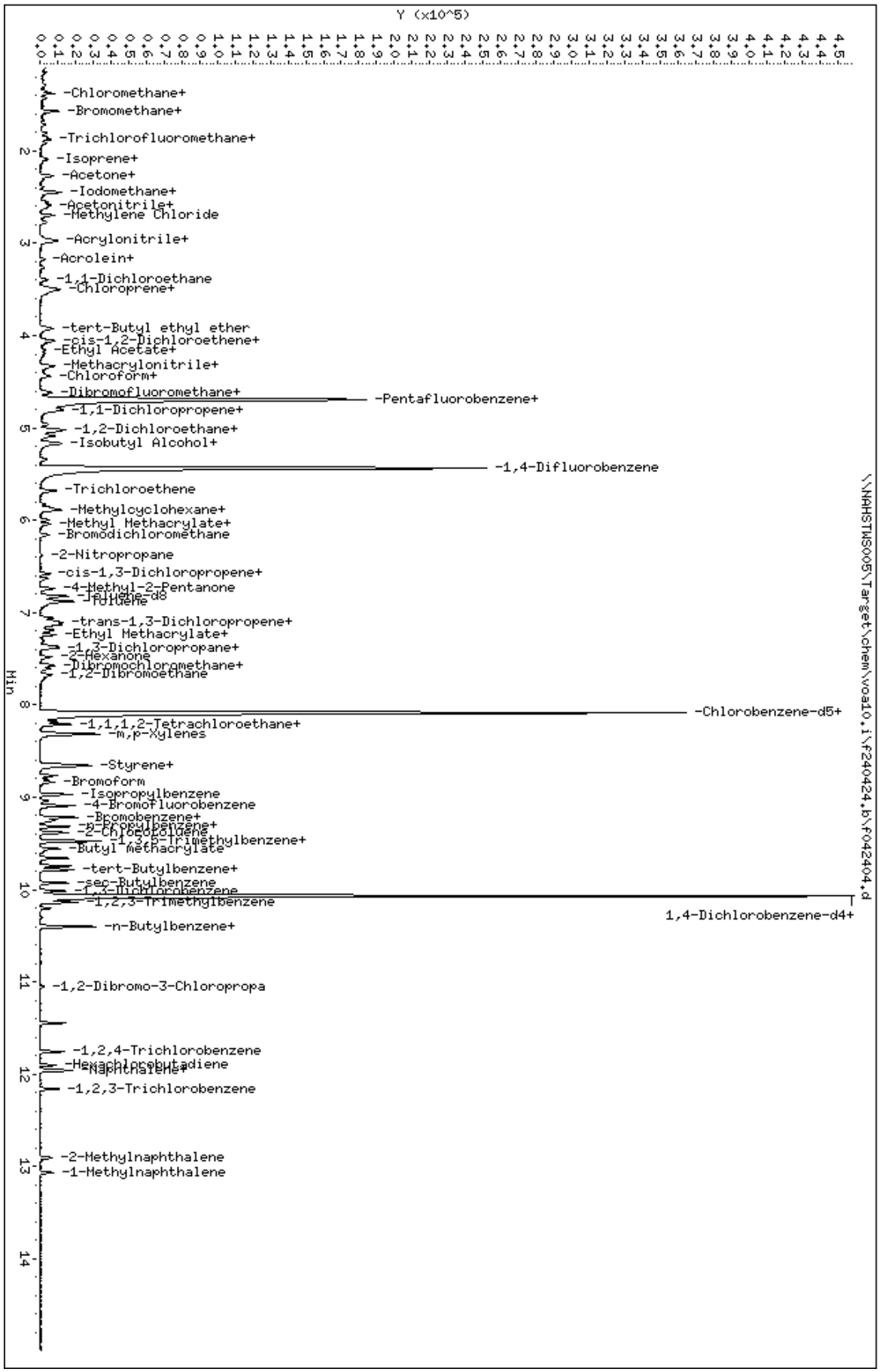
QC Flag Legend

T - Target compound detected outside RT window.

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

QC Flag Legend

M - Compound response manually integrated.


Y (x10^5)
Min
-Chloromethane+
-Bromomethane+
-Trichlorofluoromethane+
-Isoprene+
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Acrylonitrile+
-Acrolein+
-1,1-Dichloroethane
-Chloroprene+
-tert-Butyl ethyl ether
-cis-1,2-Dichloroethene+
-Ethyl Acetate+
-Methacrylonitrile+
-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene
-Methylcyclohexane+
-Methyl Methacrylate+
-Bromodichloromethane
-2-Nitropropane
-cis-1,3-Dichloropropene+
-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
-trans-1,3-Dichloropropene+
-Ethyl Methacrylate+
-1,3-Dichloropropane+
-2-Hexanone
-Dibromochloromethane+
-1,2-Dibromoethane
-Chlorobenzene-d5+
-1,1,1,2-Tetrachloroethane+
-m,p-Xylenes
-Styrene+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-Bromobenzene+
-n-Propylbenzene+
-2-Chlorotoluene
-1,3,5-Trimethylbenzene+
-Butyl Methacrylate
-tert-Butylbenzene+
-sec-Butylbenzene
-1,3-Dichlorobenzene
-1,2,3-Trimethylbenzene
1,4-Dichlorobenzene-d4+
-n-Butylbenzene+
-1,2-Dibromo-3-Chloropropa
-1,2,4-Trichlorobenzene
-Hexachlorobutadiene
-Naphthalene+
-1,2,3-Trichlorobenzene
-2-Methylnaphthalene
-1-Methylnaphthalene
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Data File: \\NAHSTWS005\Target\chem\voa10,i\f240424,b\f042404,d
Date : 24-APR-2024 10:36
Client ID: VSTD002
Sample Info: VSTD002;VSTD002;1;4
Purge Volume: 5.0
Column phase: DB624
Instrument: voa10,i
Operator: TS
Column diameter: 0.18
Page 1

Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042404.d
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

o-Xylene (95-47-6)

Reason Code:

BEFORE

MASS
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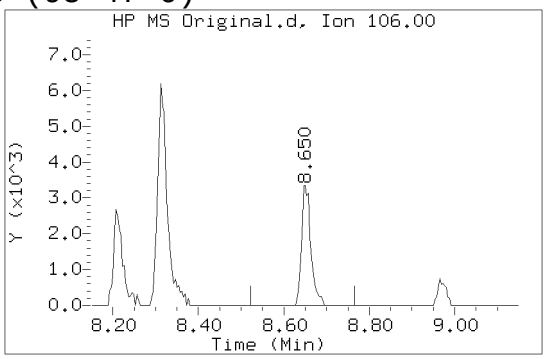
5219
HEIGHT
3355
24-Apr-2024
13:49
firat
tastan



AFTER

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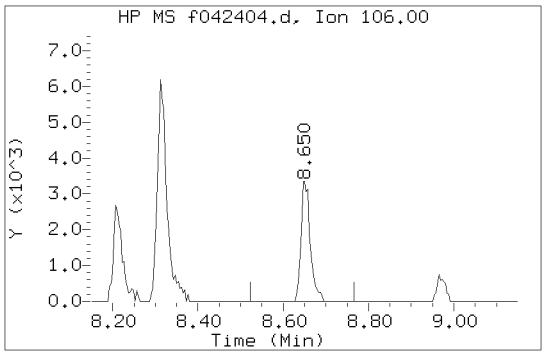

BEFORE

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24-Apr-2024
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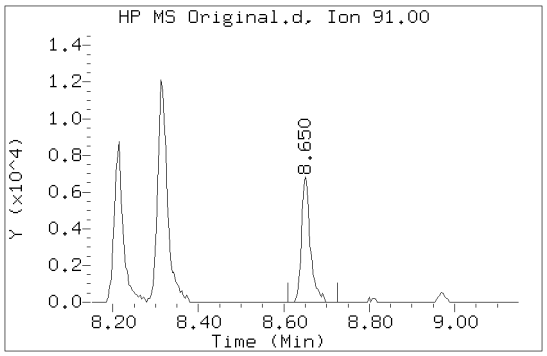

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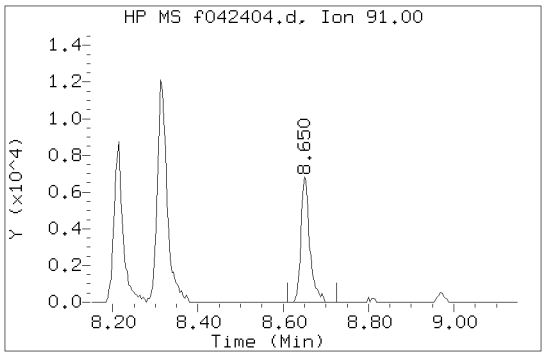

Chloroethane (75-00-3)

Reason Code:

BEFORE

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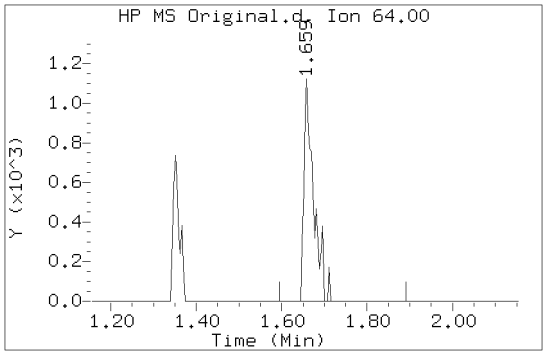

AFTER

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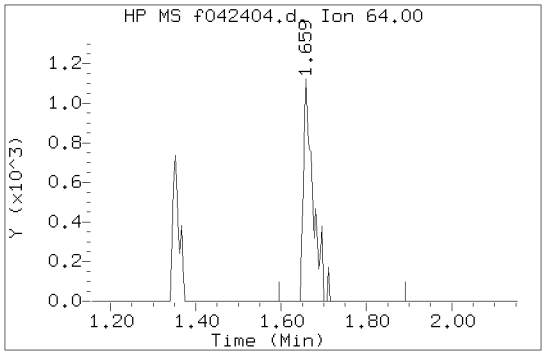

BEFORE

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AREA
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HEIGHT
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24-Apr-2024
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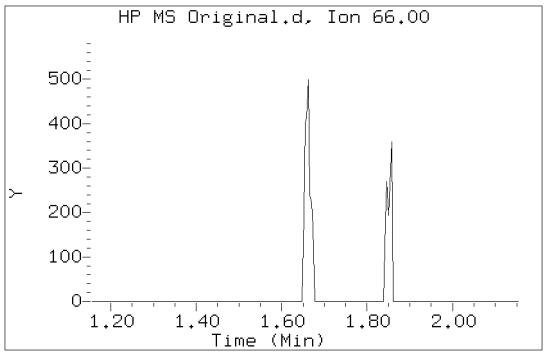

AFTER

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AREA
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HEIGHT
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24-Apr-2024
13:49
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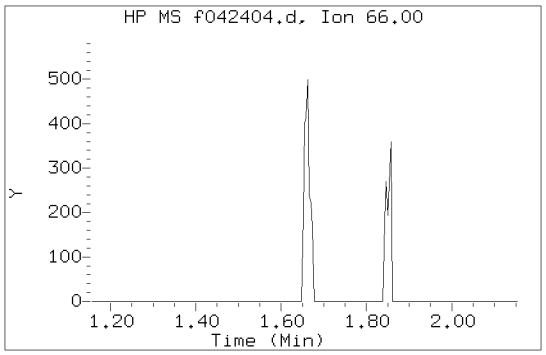

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Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

2-Butanone (78-93-3)

Reason Code:

BEFORE

MASS
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AREA
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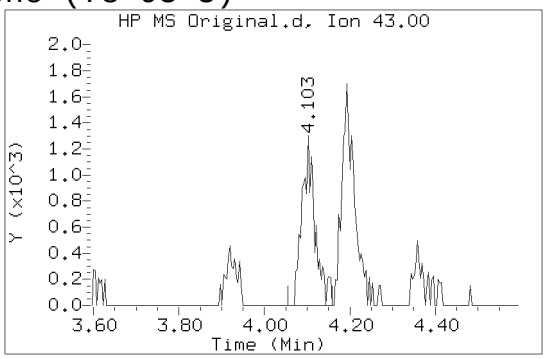
HEIGHT
1301
24-Apr-2024
13:49
firat
tastan



AFTER

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AREA
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HEIGHT
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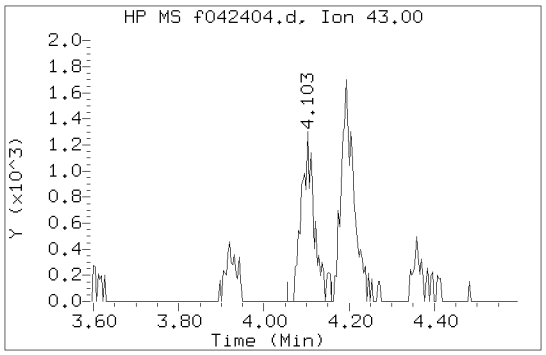

BEFORE

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13:49
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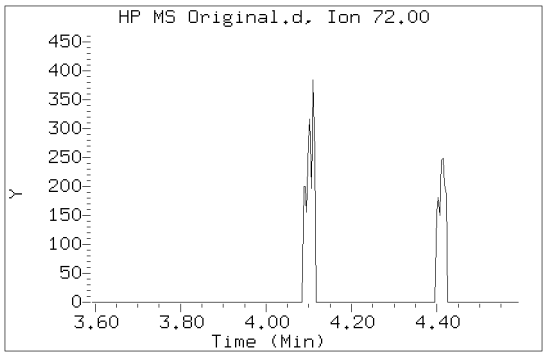

AFTER

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24-Apr-2024
13:49
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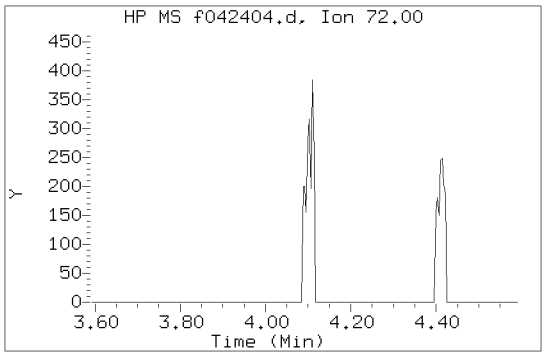

Bromodichloromethane (75-27-4)

Reason Code:

BEFORE

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AREA
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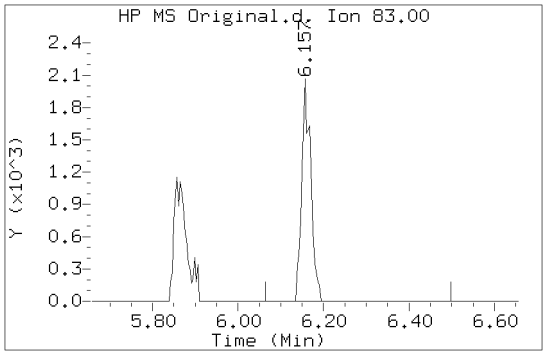
HEIGHT
2067
24-Apr-2024
13:49
firat
tastan



AFTER

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24-Apr-2024
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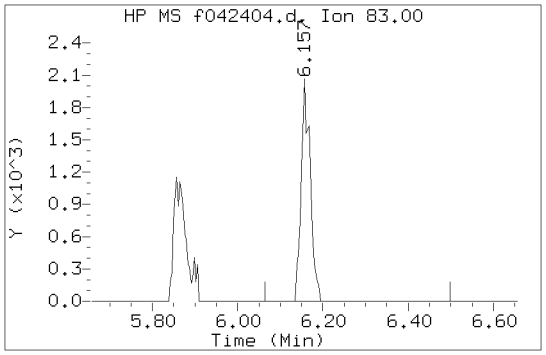

BEFORE

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HEIGHT
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24-Apr-2024
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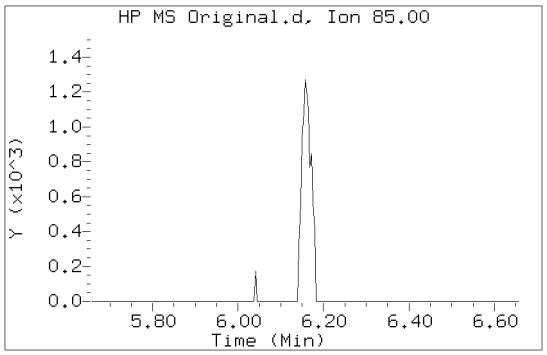

AFTER

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AREA
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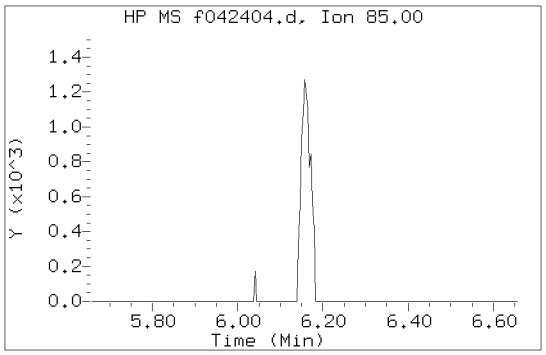
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



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Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

Bromodichloromethane (75-27-4)

Reason Code:

BEFORE

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AREA
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HEIGHT
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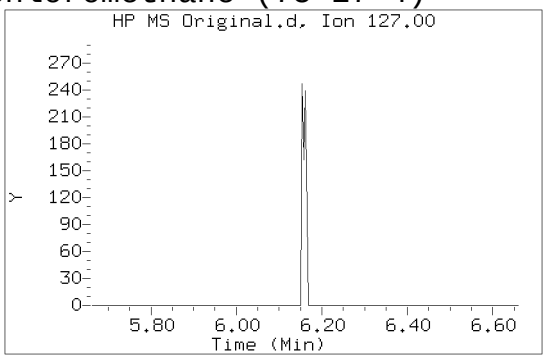
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
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HEIGHT
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24-Apr-2024
13:49
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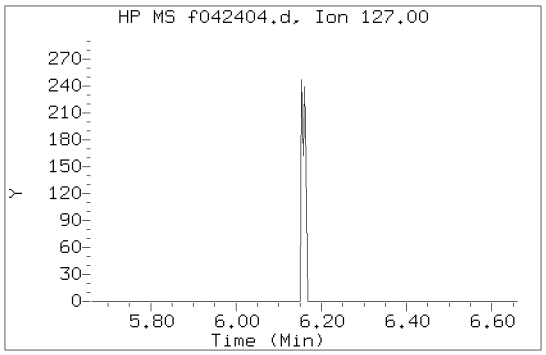

1,2-Dichloropropane (78-87-5)

Reason Code:

BEFORE

MASS
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AREA
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HEIGHT
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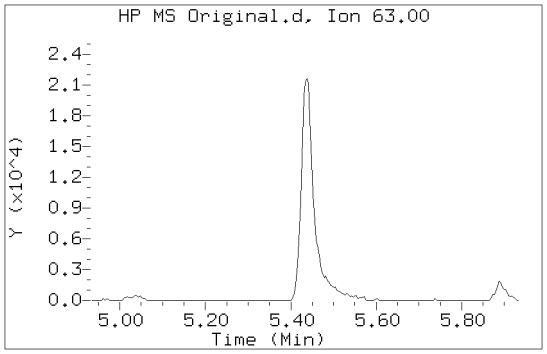
24-Apr-2024
13:49
firat
tastan



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24-Apr-2024
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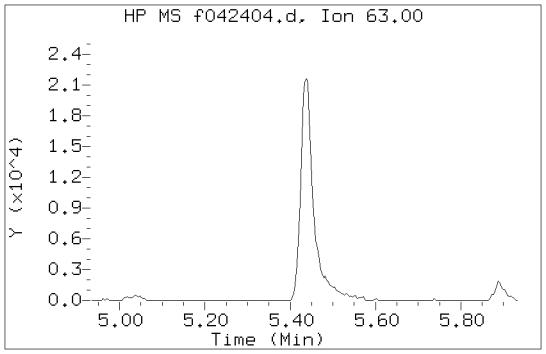

BEFORE

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112
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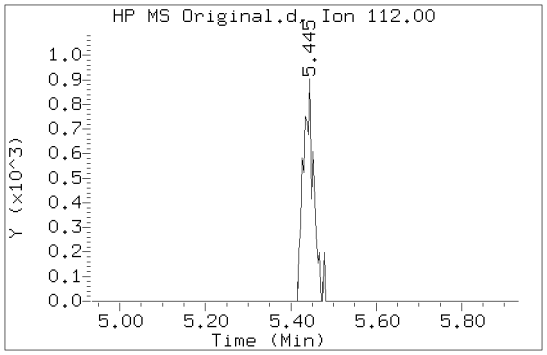
HEIGHT
904
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
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HEIGHT
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24-Apr-2024
13:49
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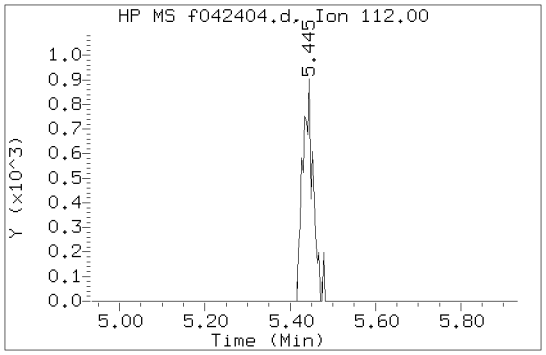

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

BEFORE

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HEIGHT
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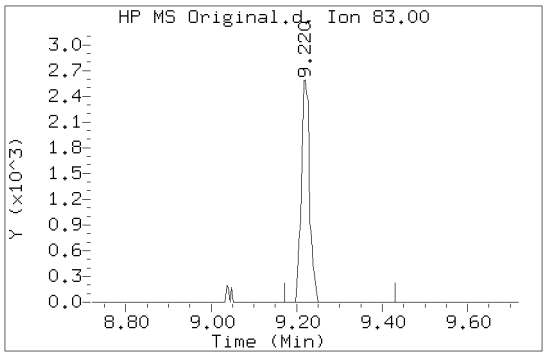
24-Apr-2024
13:49
firat
tastan



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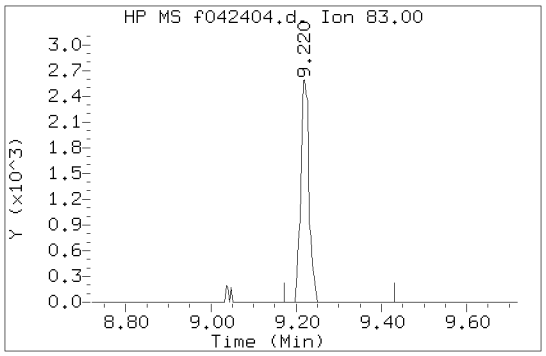

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Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

1,1,2,2-Tetrachloroethane (79-34-5)

Reason Code:

BEFORE

MASS
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AREA
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HEIGHT
299
24-Apr-2024
13:49
firat
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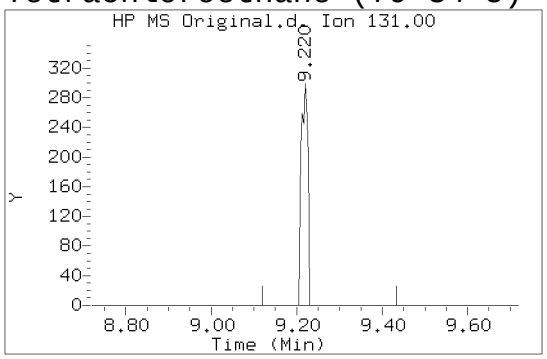

AFTER

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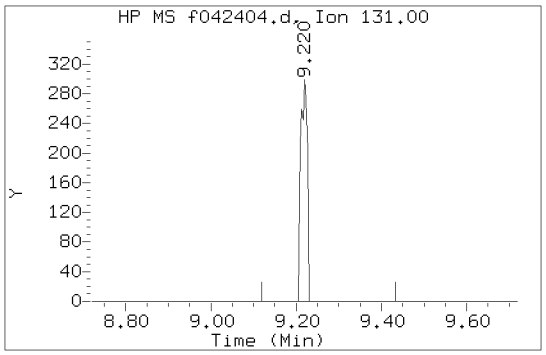

BEFORE

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HEIGHT
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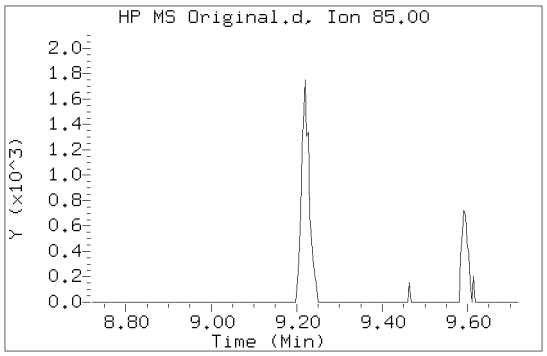
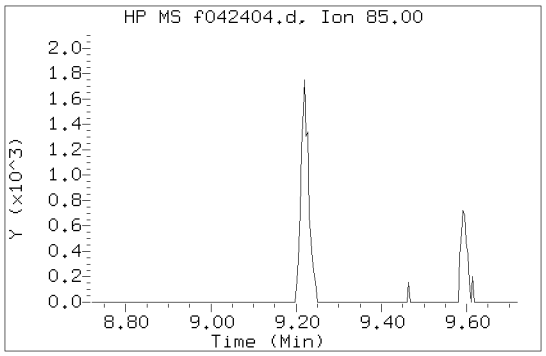
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

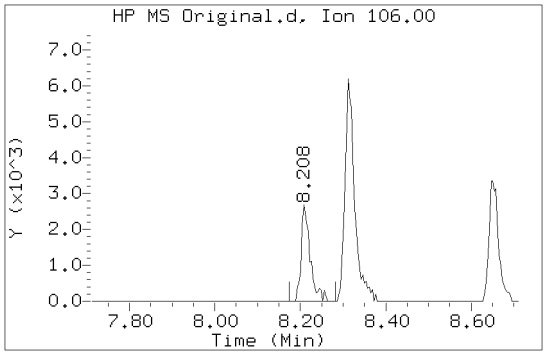


Ethylbenzene (100-41-4)

Reason Code:

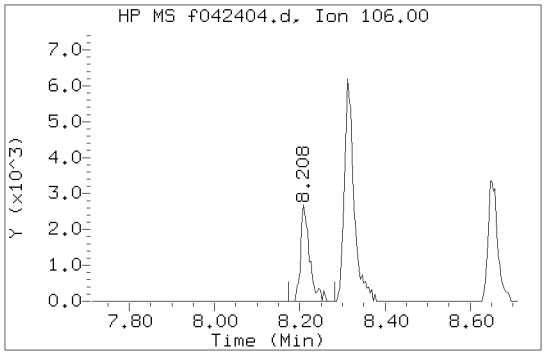
BEFORE

MASS
106
AREA
4042
HEIGHT
2692
24-Apr-2024
13:49
firat
tastan



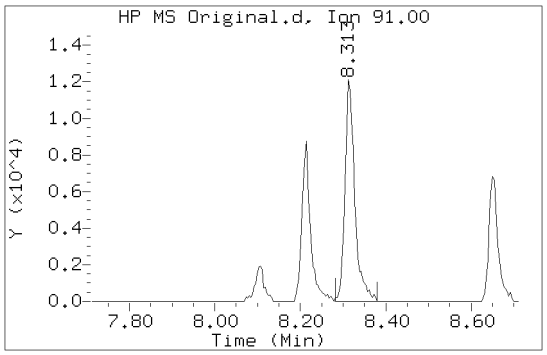
AFTER

MASS
106
AREA
4042
HEIGHT
2692
24-Apr-2024
13:49
firat
tastan



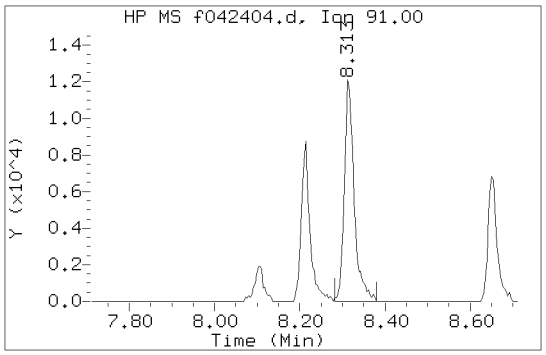
BEFORE

MASS
91
AREA
19342
HEIGHT
12116
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
91
AREA
19342
HEIGHT
12116
24-Apr-2024
13:49
firat
tastan



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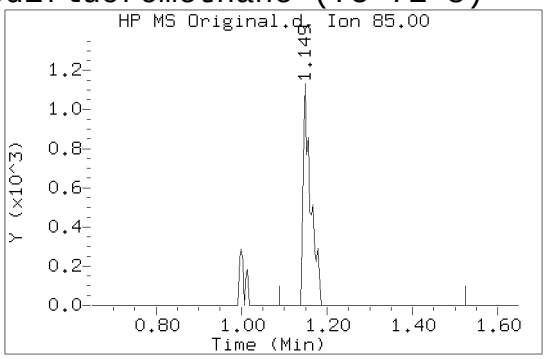
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

Dichlorodifluoromethane (75-71-8)

Reason Code:

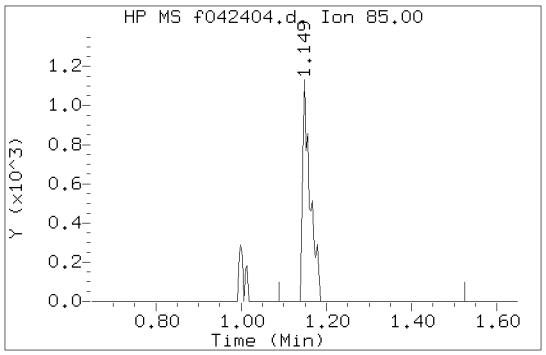
BEFORE

MASS
85
AREA
1432
HEIGHT
1132
24-Apr-2024
13:49
firat
tastan



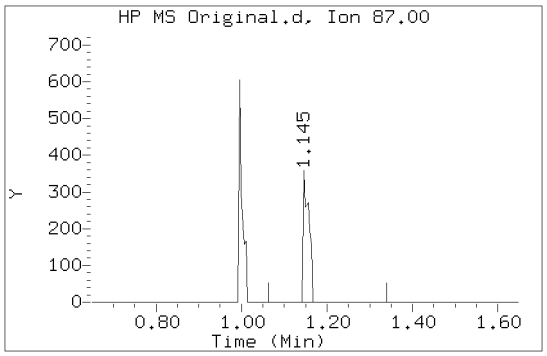
AFTER

MASS
85
AREA
1432
HEIGHT
1132
24-Apr-2024
13:49
firat
tastan



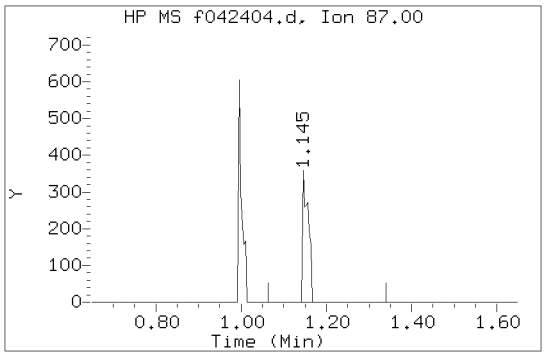
BEFORE

MASS
87
AREA
337
HEIGHT
358
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
87
AREA
337
HEIGHT
358
24-Apr-2024
13:49
firat
tastan

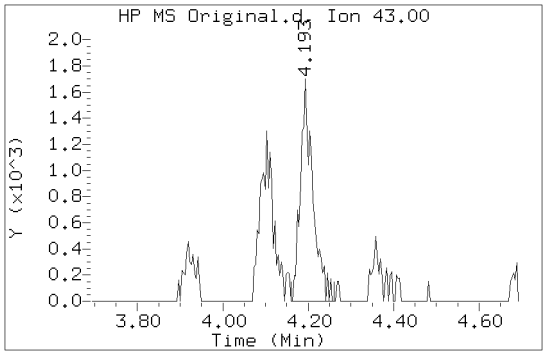


Vinyl Acetate (108-05-4)

Reason Code:

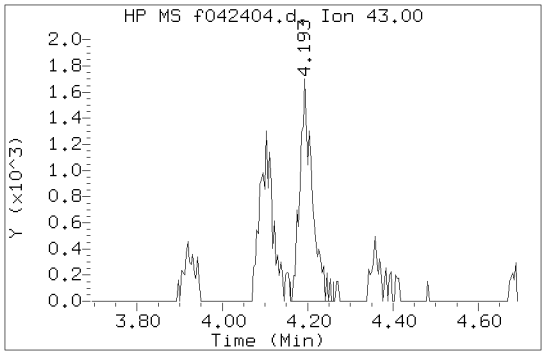
BEFORE

MASS
43
AREA
3485
HEIGHT
1701
24-Apr-2024
13:49
firat
tastan



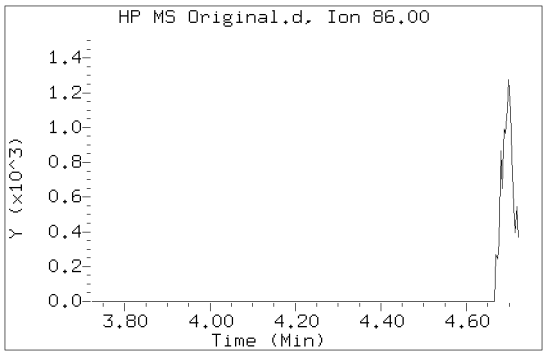
AFTER

MASS
43
AREA
3485
HEIGHT
1701
24-Apr-2024
13:49
firat
tastan



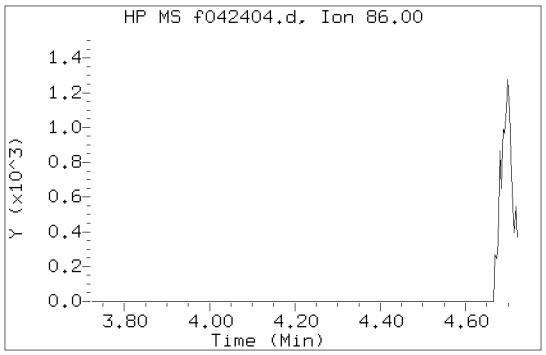
BEFORE

MASS
86
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
86
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



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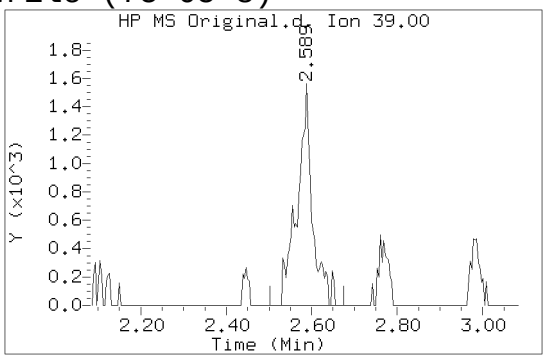
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

Acetonitrile (75-05-8)

Reason Code:

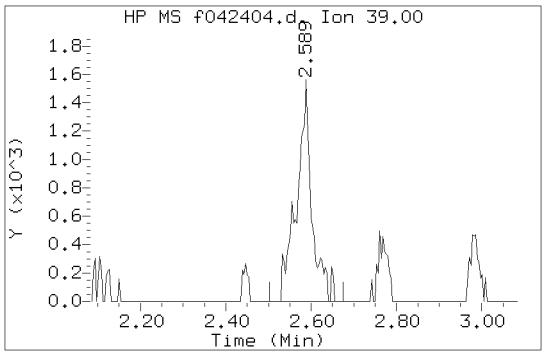
BEFORE

MASS
39
AREA
3933
HEIGHT
1563
24-Apr-2024
13:49
firat
tastan



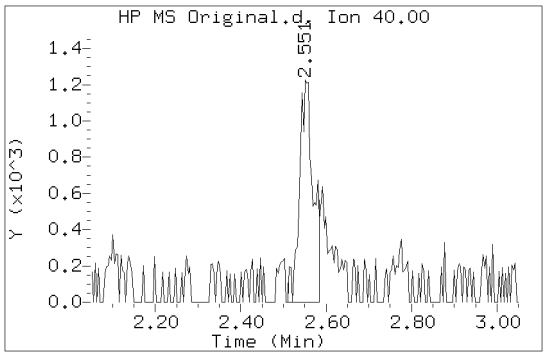
AFTER

MASS
39
AREA
3933
HEIGHT
1563
24-Apr-2024
13:49
firat
tastan



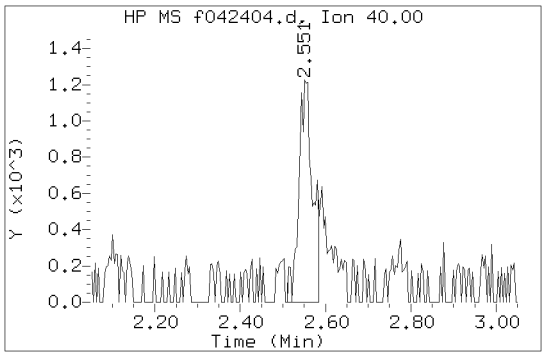
BEFORE

MASS
40
AREA
2824
HEIGHT
1226
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
40
AREA
2824
HEIGHT
1226
24-Apr-2024
13:49
firat
tastan

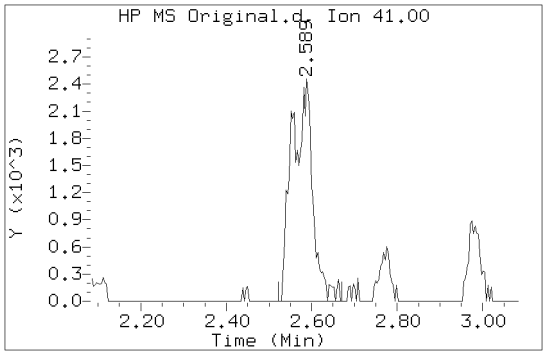


Allyl Chloride (107-05-1)

Reason Code:

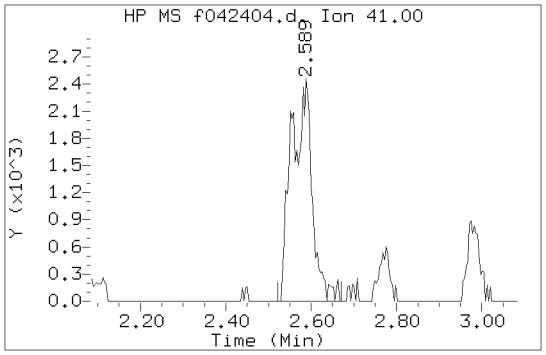
BEFORE

MASS
41
AREA
8332
HEIGHT
2458
24-Apr-2024
13:49
firat
tastan



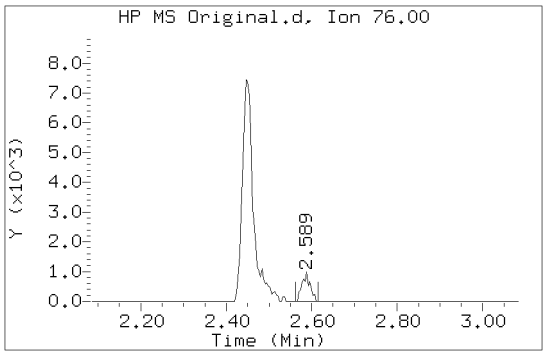
AFTER

MASS
41
AREA
8332
HEIGHT
2458
24-Apr-2024
13:49
firat
tastan



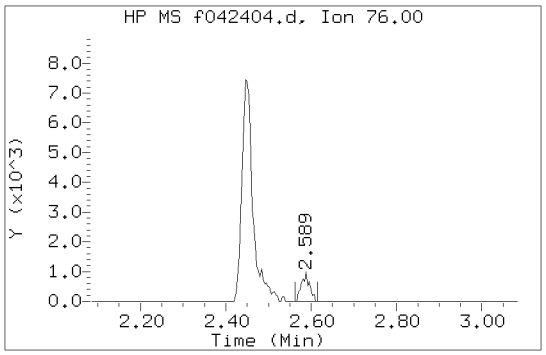
BEFORE

MASS
76
AREA
1298
HEIGHT
996
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
76
AREA
1298
HEIGHT
996
24-Apr-2024
13:49
firat
tastan



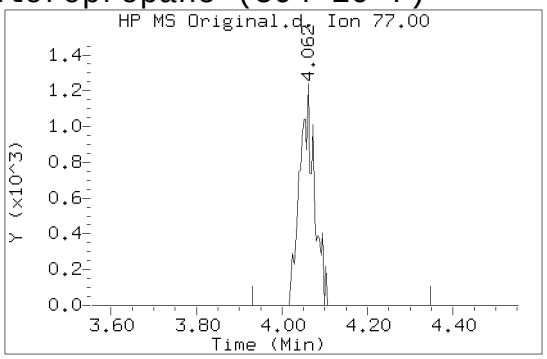
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042404.d
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

2,2-Dichloropropane (594-20-7)

Reason Code:

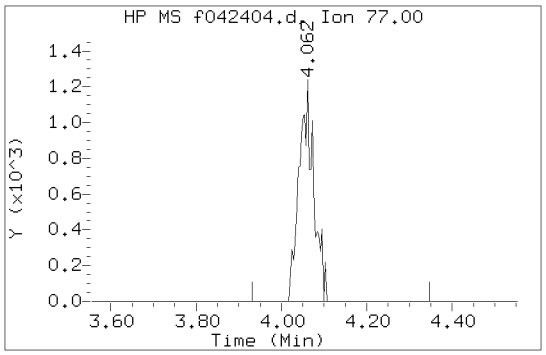
BEFORE

MASS
77
AREA
2965
HEIGHT
1240
24-Apr-2024
13:49
firat
tastan



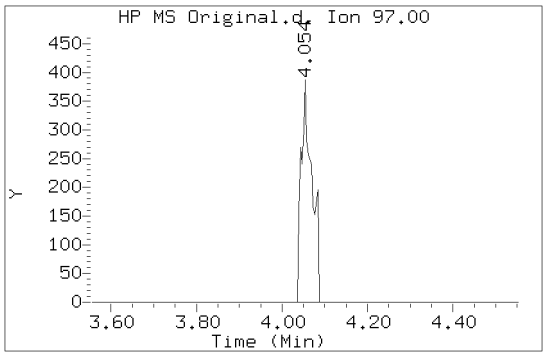
AFTER

MASS
77
AREA
2965
HEIGHT
1240
24-Apr-2024
13:49
firat
tastan



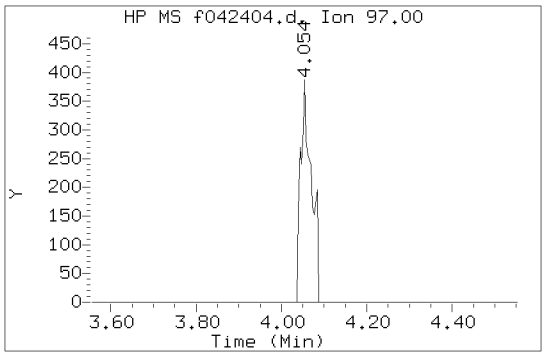
BEFORE

MASS
97
AREA
690
HEIGHT
387
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
97
AREA
690
HEIGHT
387
24-Apr-2024
13:49
firat
tastan

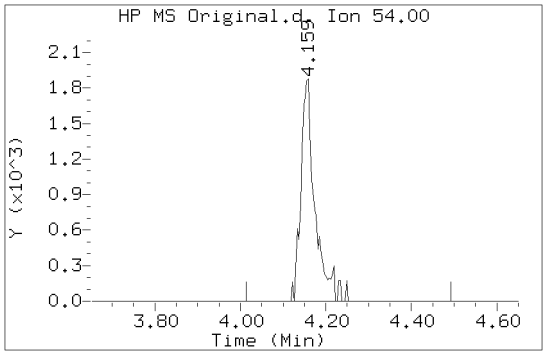


Propionitrile (107-12-0)

Reason Code:

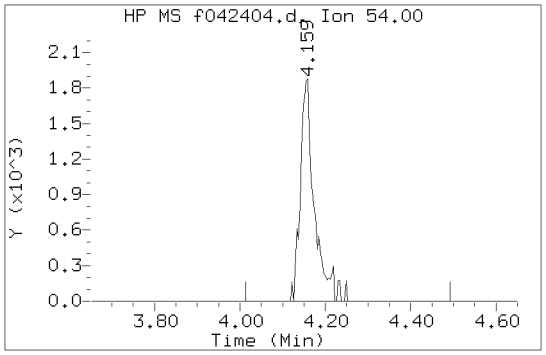
BEFORE

MASS
54
AREA
4367
HEIGHT
1877
24-Apr-2024
13:49
firat
tastan



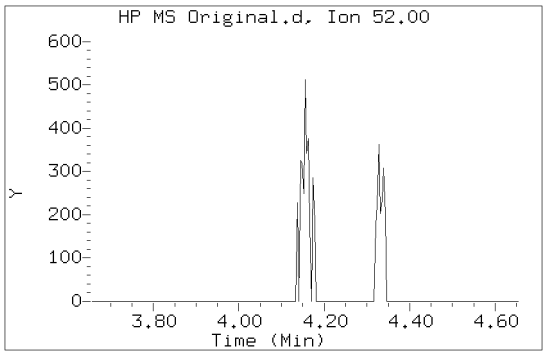
AFTER

MASS
54
AREA
4367
HEIGHT
1877
24-Apr-2024
13:49
firat
tastan



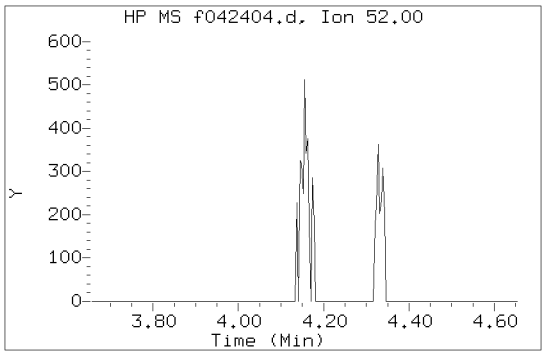
BEFORE

MASS
52
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
52
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



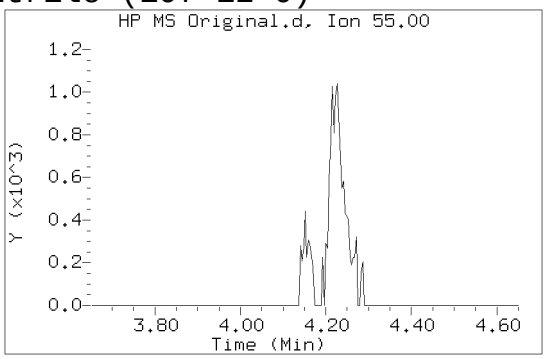
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042404.d
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

Propionitrile (107-12-0)

Reason Code:

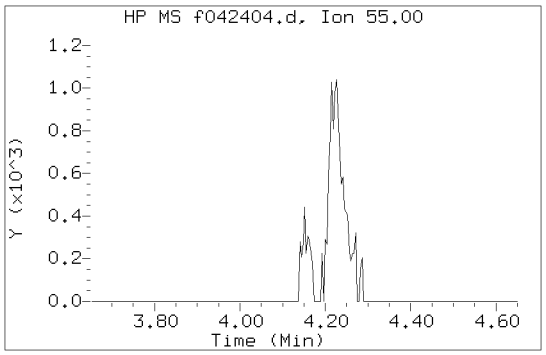
BEFORE

MASS
55
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
55
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

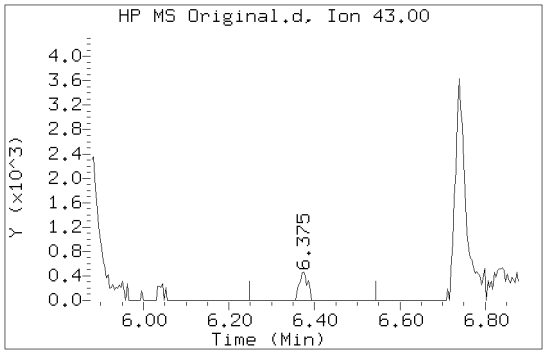


2-Nitropropane (79-46-9)

Reason Code:

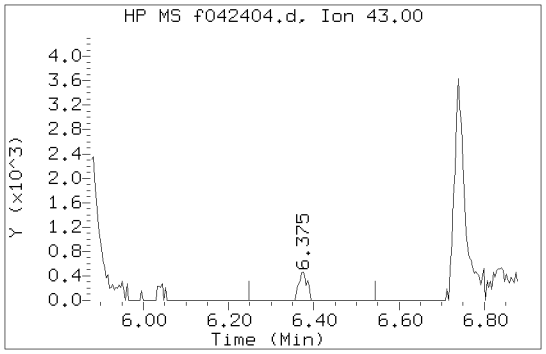
BEFORE

MASS
43
AREA
649
HEIGHT
460
24-Apr-2024
13:49
firat
tastan



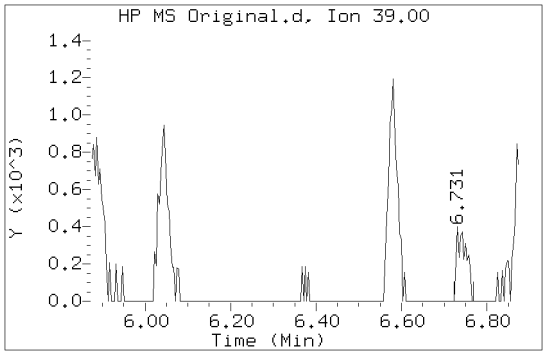
AFTER

MASS
43
AREA
649
HEIGHT
460
24-Apr-2024
13:49
firat
tastan



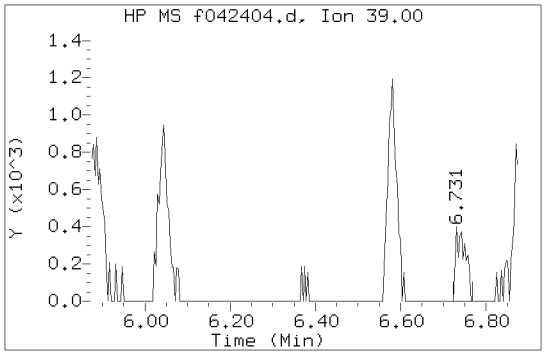
BEFORE

MASS
39
AREA
621
HEIGHT
402
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
39
AREA
621
HEIGHT
402
24-Apr-2024
13:49
firat
tastan

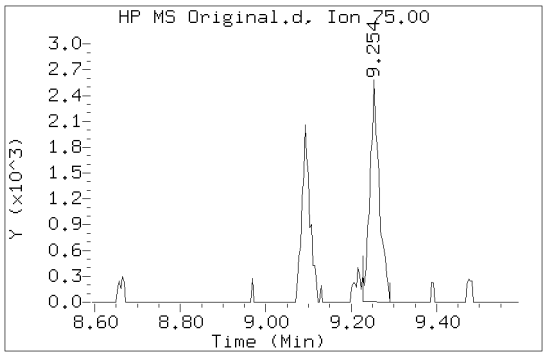


1,2,3-Trichloropropane (96-18-4)

Reason Code:

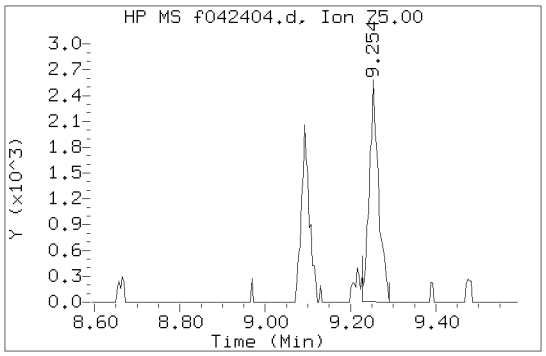
BEFORE

MASS
75
AREA
3925
HEIGHT
2576
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
75
AREA
3925
HEIGHT
2576
24-Apr-2024
13:49
firat
tastan



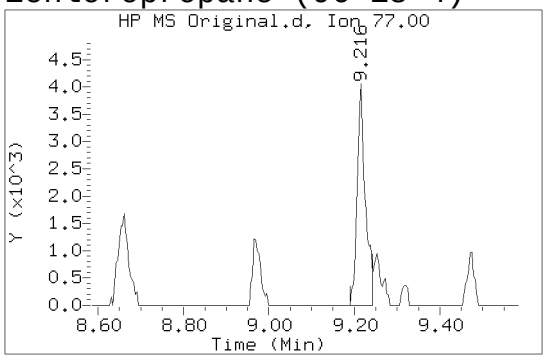
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042404.d
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

1,2,3-Trichloropropane (96-18-4)

Reason Code:

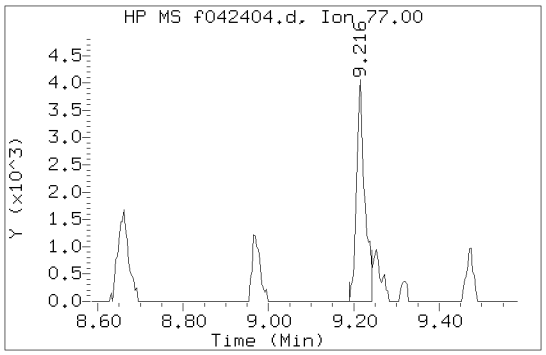
BEFORE

MASS
77
AREA
5395
HEIGHT
4059
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
77
AREA
5395
HEIGHT
4059
24-Apr-2024
13:49
firat
tastan

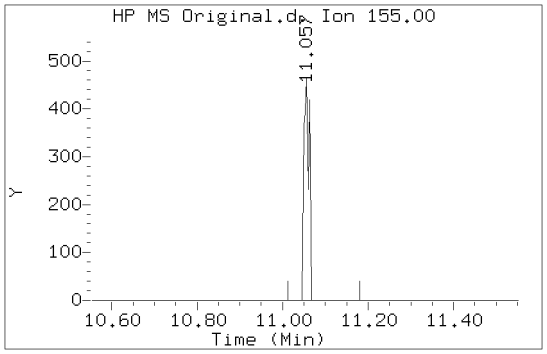


1,2-Dibromo-3-Chloropropane (96-12-8)

Reason Code:

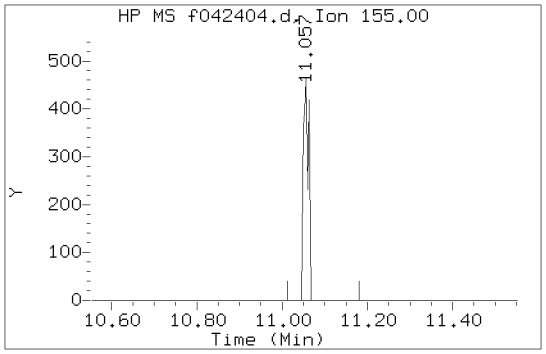
BEFORE

MASS
155
AREA
421
HEIGHT
463
24-Apr-2024
13:49
firat
tastan



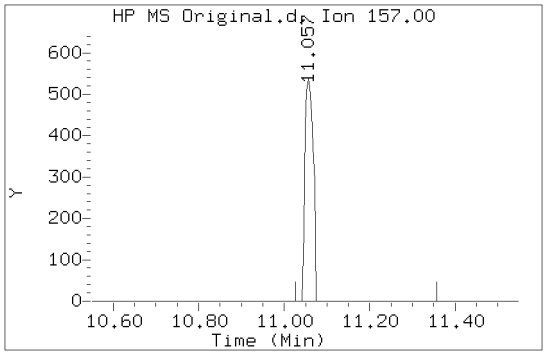
AFTER

MASS
155
AREA
421
HEIGHT
463
24-Apr-2024
13:49
firat
tastan



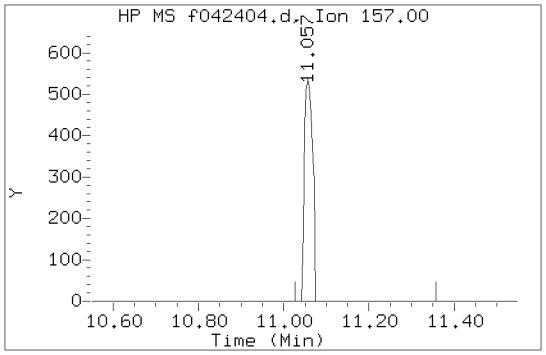
BEFORE

MASS
157
AREA
736
HEIGHT
537
24-Apr-2024
13:49
firat
tastan



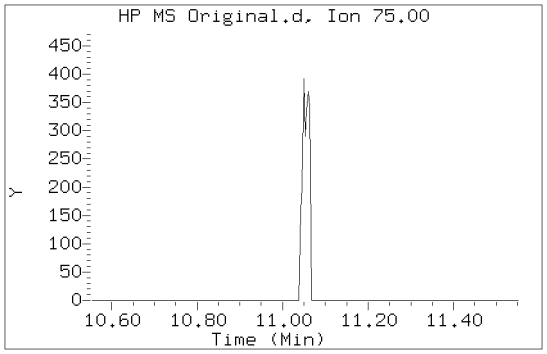
AFTER

MASS
157
AREA
736
HEIGHT
537
24-Apr-2024
13:49
firat
tastan



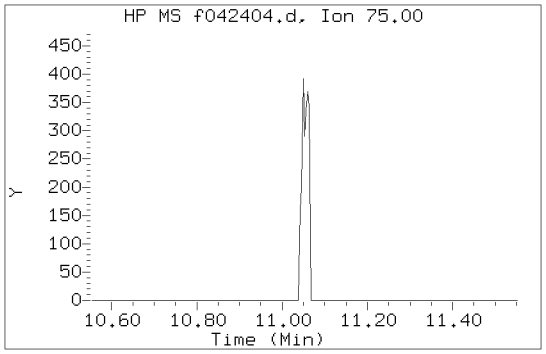
BEFORE

MASS
75
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
75
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



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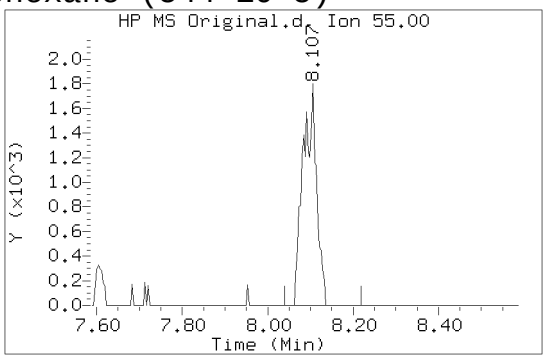
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

1-Chlorohexane (544-10-5)

Reason Code:

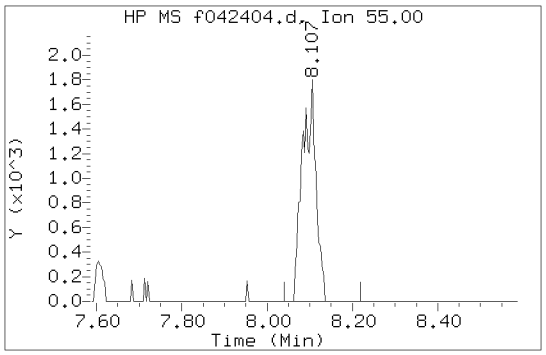
BEFORE

MASS
55
AREA
4012
HEIGHT
1801
24-Apr-2024
13:49
firat
tastan



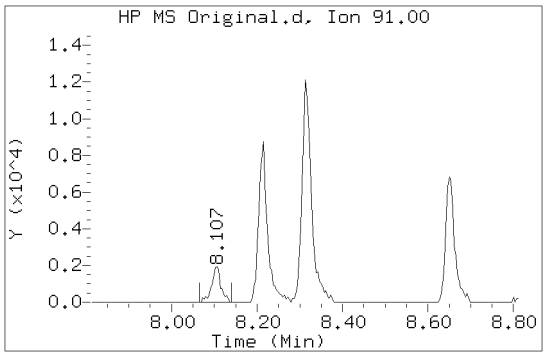
AFTER

MASS
55
AREA
4012
HEIGHT
1801
24-Apr-2024
13:49
firat
tastan



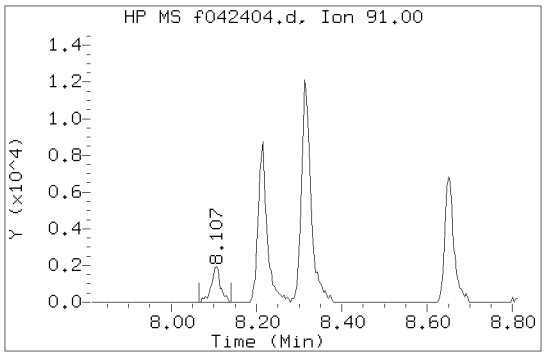
BEFORE

MASS
91
AREA
2947
HEIGHT
1942
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
91
AREA
2947
HEIGHT
1942
24-Apr-2024
13:49
firat
tastan

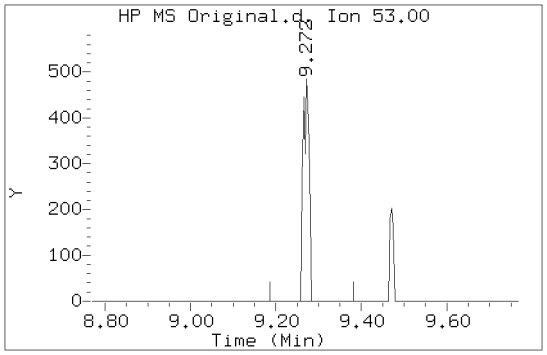


trans-1,4-Dichloro-2-butene (110-57-6)

Reason Code:

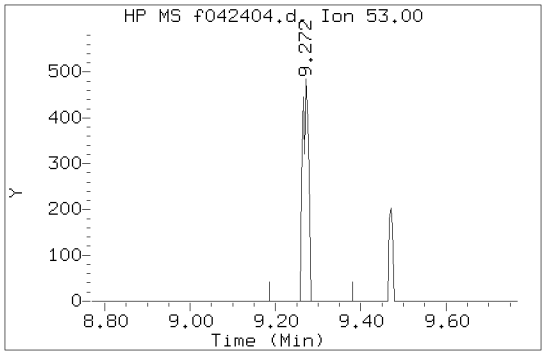
BEFORE

MASS
53
AREA
491
HEIGHT
485
24-Apr-2024
13:49
firat
tastan



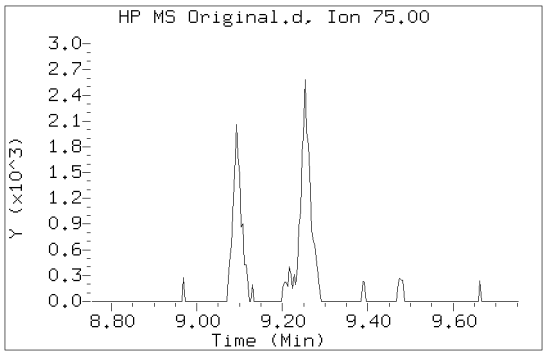
AFTER

MASS
53
AREA
491
HEIGHT
485
24-Apr-2024
13:49
firat
tastan



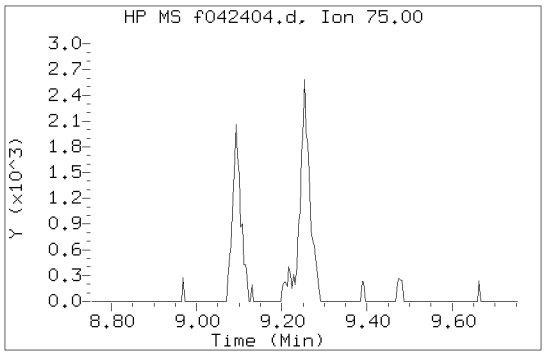
BEFORE

MASS
75
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
75
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



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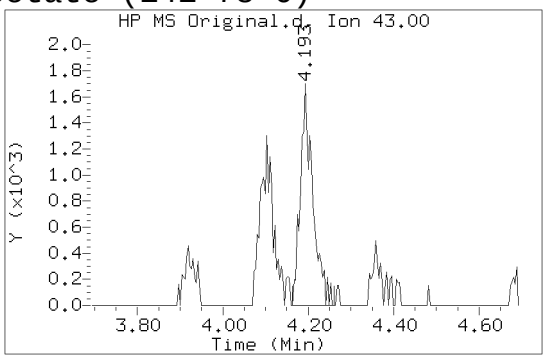
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

Ethyl Acetate (141-78-6)

Reason Code:

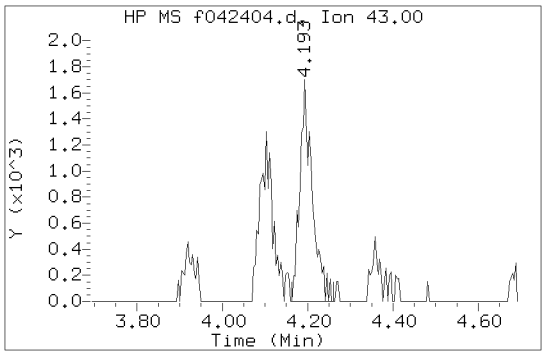
BEFORE

MASS
43
AREA
3484
HEIGHT
1701
24-Apr-2024
13:49
firat
tastan



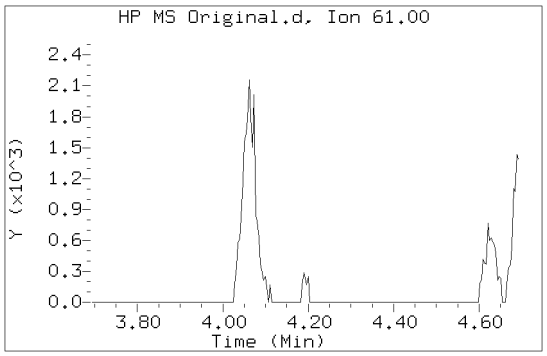
AFTER

MASS
43
AREA
3484
HEIGHT
1701
24-Apr-2024
13:49
firat
tastan



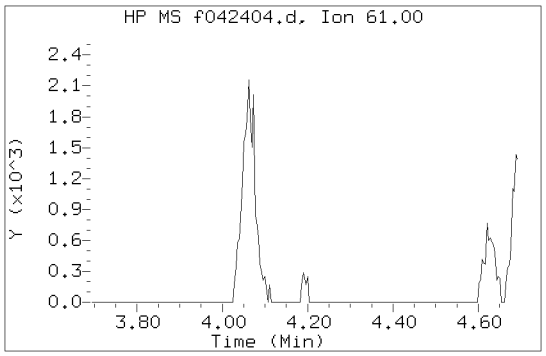
BEFORE

MASS
61
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



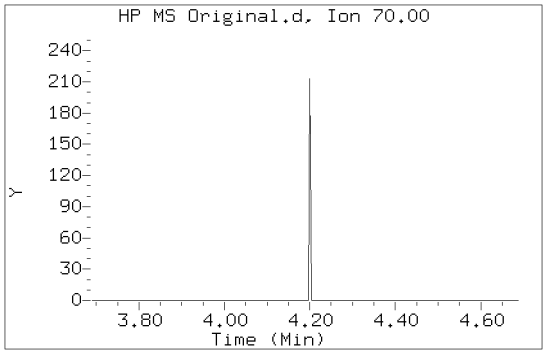
AFTER

MASS
61
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



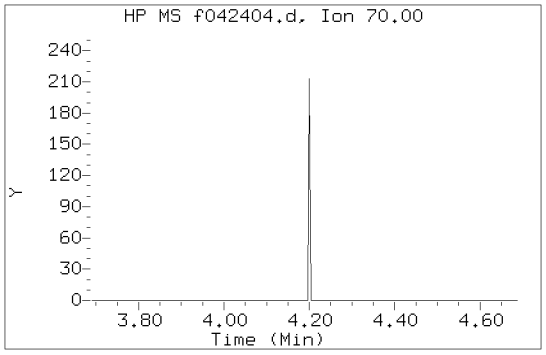
BEFORE

MASS
70
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
70
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

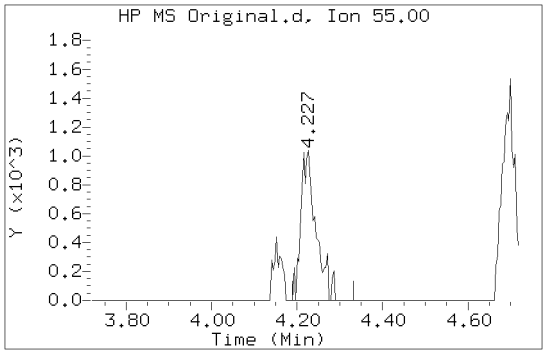


Methyl Acrylate (96-33-3)

Reason Code:

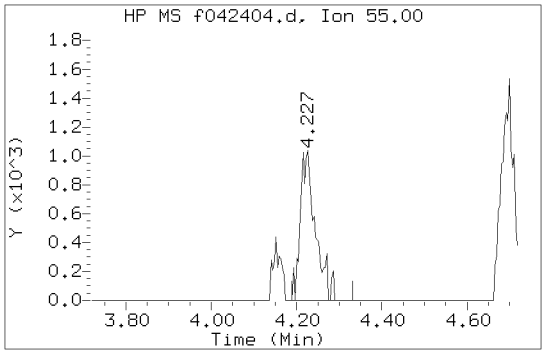
BEFORE

MASS
55
AREA
2594
HEIGHT
1040
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
55
AREA
2594
HEIGHT
1040
24-Apr-2024
13:49
firat
tastan



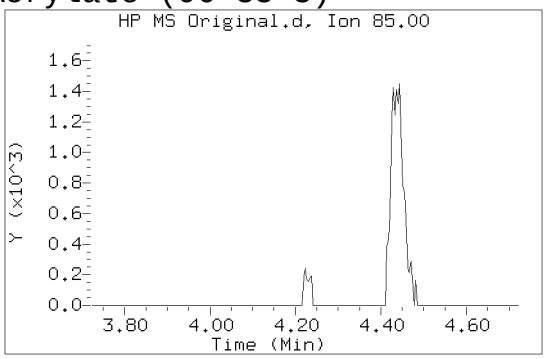
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042404.d
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

Methyl Acrylate (96-33-3)

Reason Code:

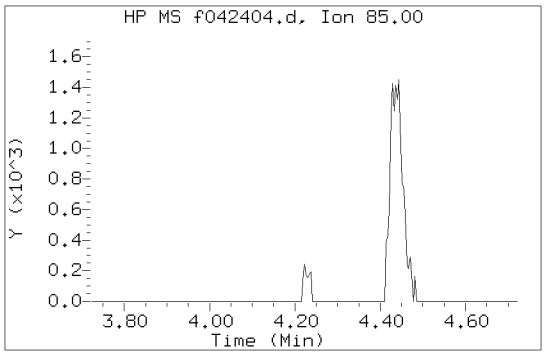
BEFORE

MASS
85
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
85
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

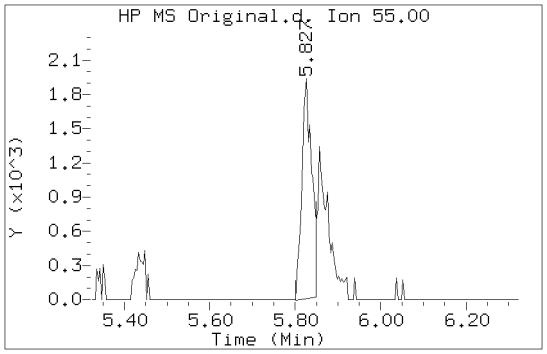


Ethyl Acrylate (140-88-5)

Reason Code:

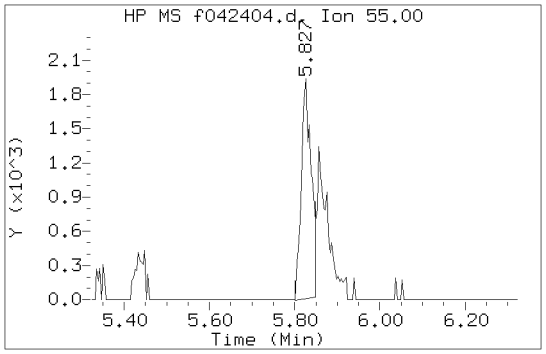
BEFORE

MASS
55
AREA
3235
HEIGHT
1926
24-Apr-2024
13:49
firat
tastan



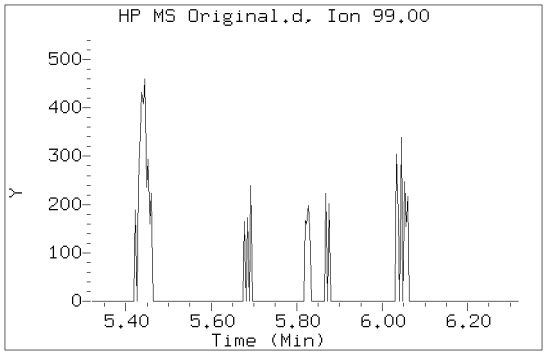
AFTER

MASS
55
AREA
3235
HEIGHT
1926
24-Apr-2024
13:49
firat
tastan



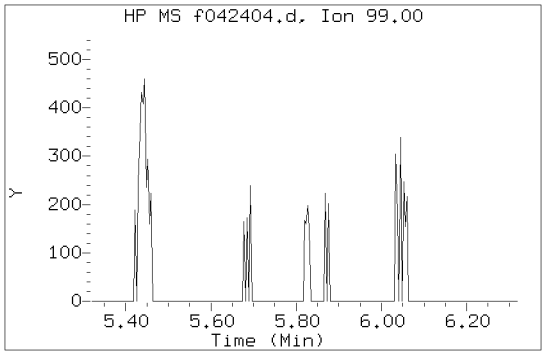
BEFORE

MASS
99
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
99
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

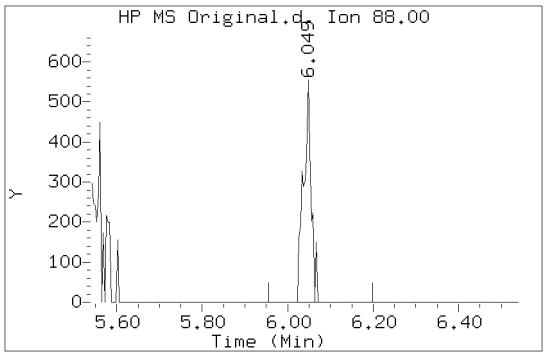


1,4-Dioxane ()

Reason Code:

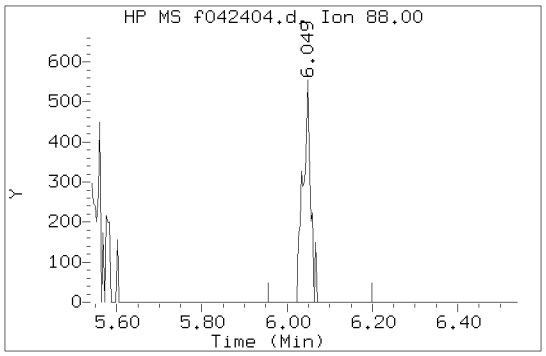
BEFORE

MASS
88
AREA
708
HEIGHT
555
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
88
AREA
708
HEIGHT
555
24-Apr-2024
13:49
firat
tastan



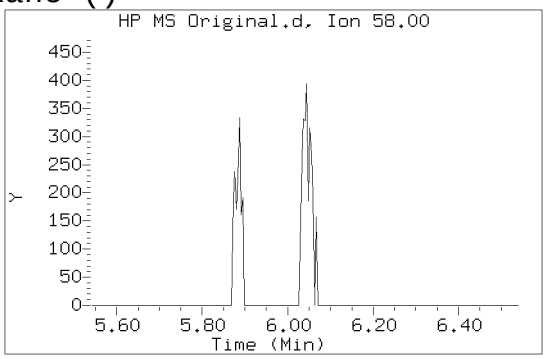
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042404.d
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

1,4-Dioxane ()

Reason Code:

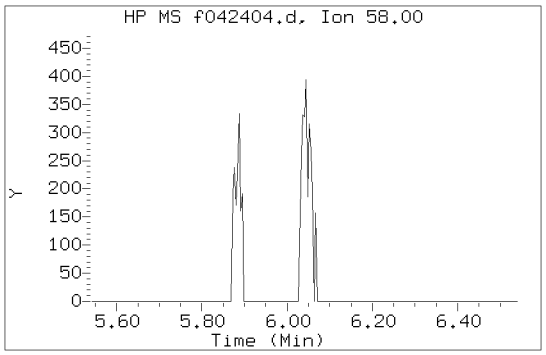
BEFORE

MASS
58
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
58
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

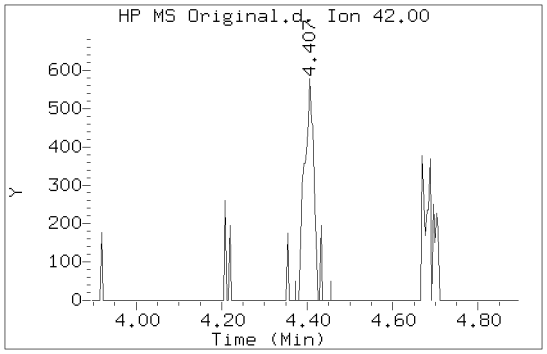


Tetrahydrofuran (109-99-9)

Reason Code:

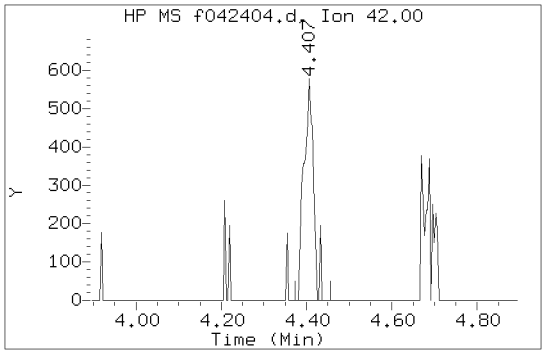
BEFORE

MASS
42
AREA
925
HEIGHT
578
24-Apr-2024
13:49
firat
tastan



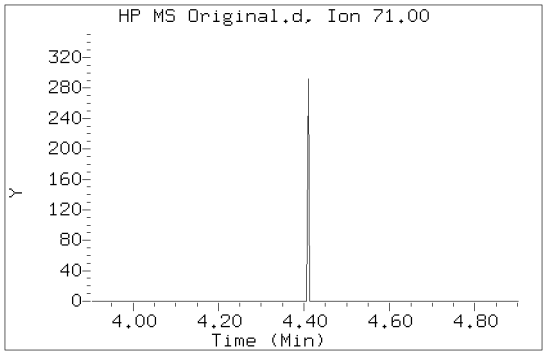
AFTER

MASS
42
AREA
925
HEIGHT
578
24-Apr-2024
13:49
firat
tastan



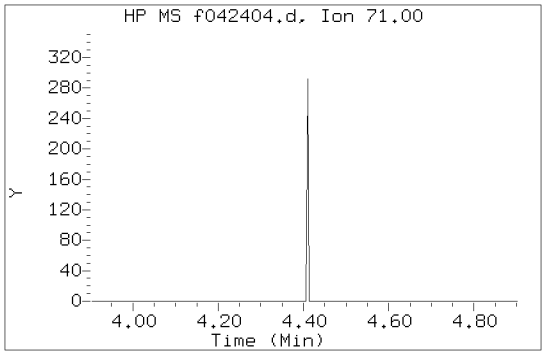
BEFORE

MASS
71
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
71
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

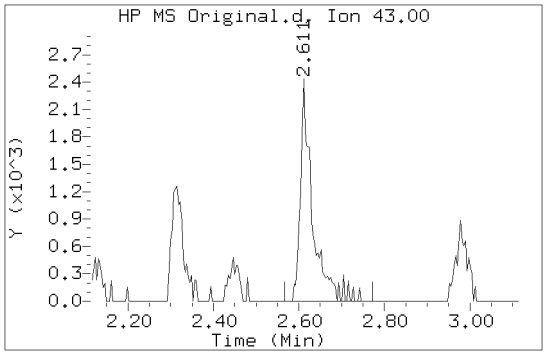


Methyl Acetate (79-20-9)

Reason Code:

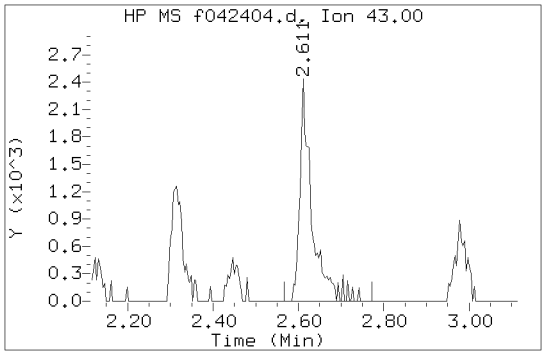
BEFORE

MASS
43
AREA
4833
HEIGHT
2435
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
43
AREA
4833
HEIGHT
2435
24-Apr-2024
13:49
firat
tastan



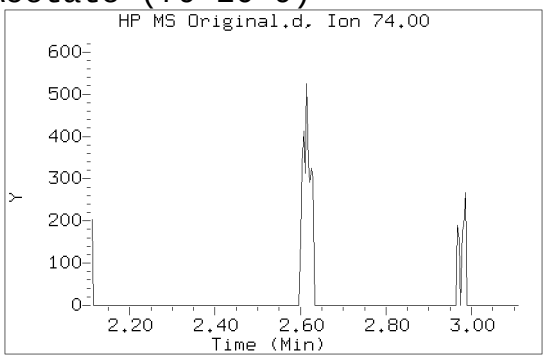
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042404.d
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

Methyl Acetate (79-20-9)

Reason Code:

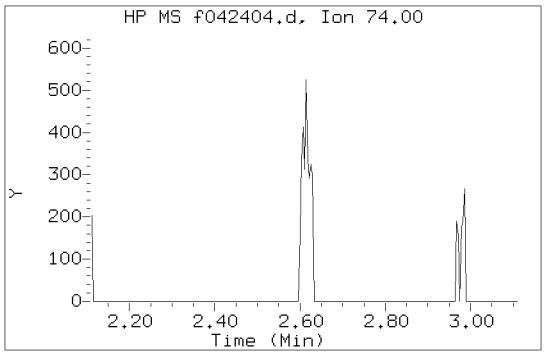
BEFORE

MASS
74
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
74
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

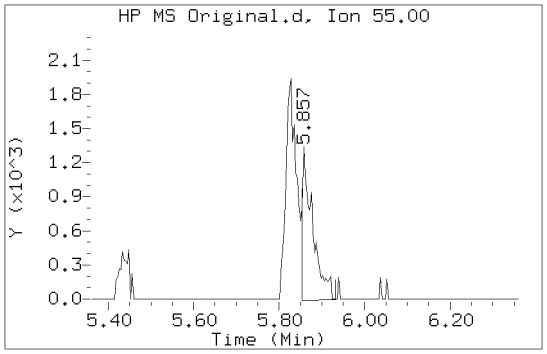


Methylcyclohexane (108-87-2)

Reason Code:

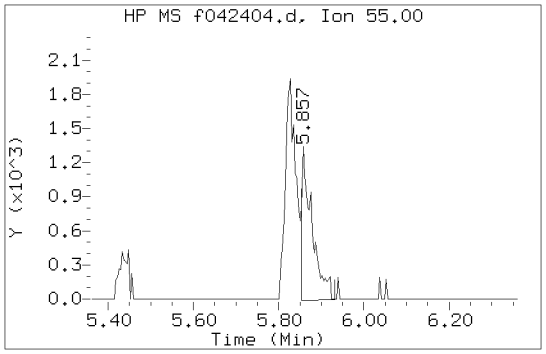
BEFORE

MASS
55
AREA
2310
HEIGHT
1352
24-Apr-2024
13:49
firat
tastan



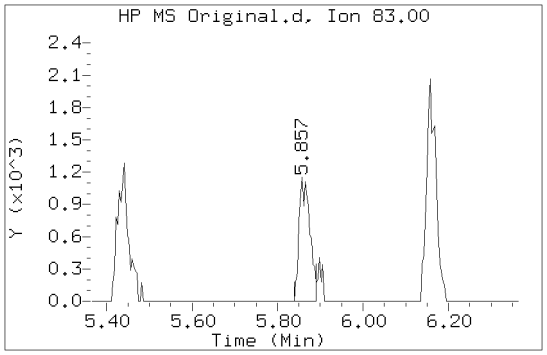
AFTER

MASS
55
AREA
2310
HEIGHT
1352
24-Apr-2024
13:49
firat
tastan



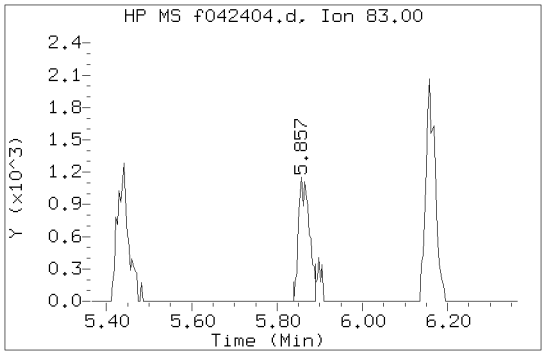
BEFORE

MASS
83
AREA
2084
HEIGHT
1155
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
83
AREA
2084
HEIGHT
1155
24-Apr-2024
13:49
firat
tastan

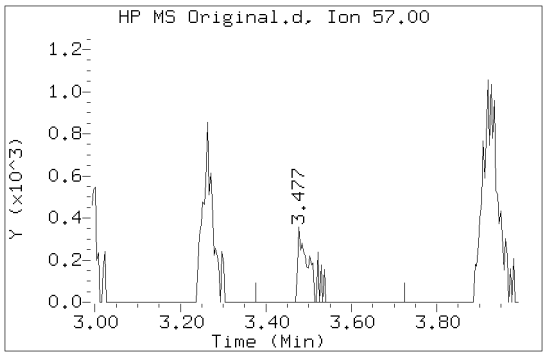


Allyl alcohol (107-18-6)

Reason Code:

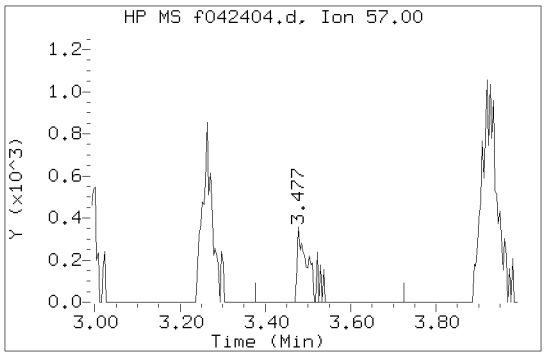
BEFORE

MASS
57
AREA
673
HEIGHT
357
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
57
AREA
673
HEIGHT
357
24-Apr-2024
13:49
firat
tastan



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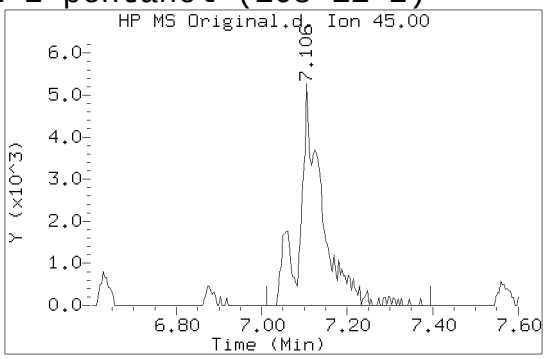
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

4-Methyl-2-pentanol (108-11-2)

Reason Code:

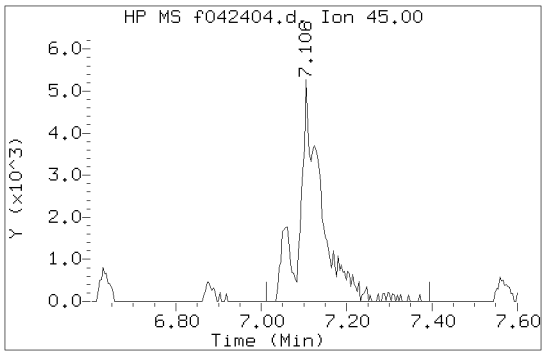
BEFORE

MASS
45
AREA
19483
HEIGHT
5270
24-Apr-2024
13:49
firat
tastan



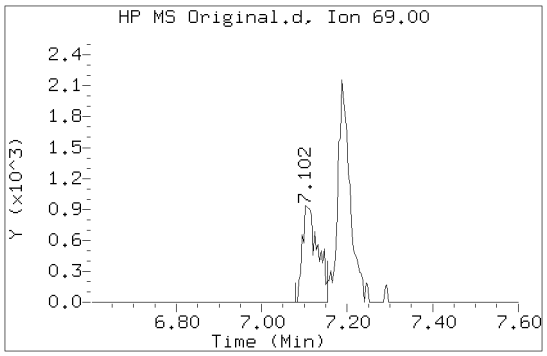
AFTER

MASS
45
AREA
19483
HEIGHT
5270
24-Apr-2024
13:49
firat
tastan



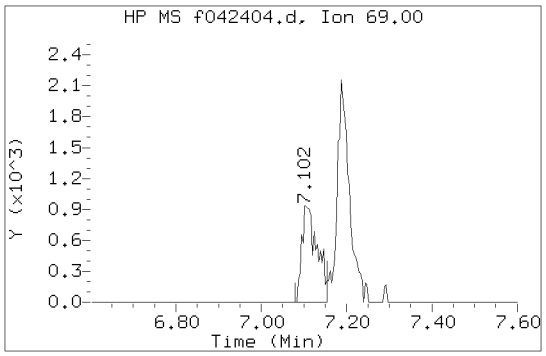
BEFORE

MASS
69
AREA
2388
HEIGHT
936
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
69
AREA
2388
HEIGHT
936
24-Apr-2024
13:49
firat
tastan

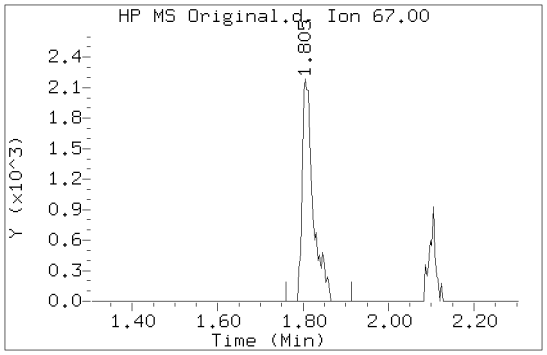


Dichlorofluoromethane (75-43-4)

Reason Code:

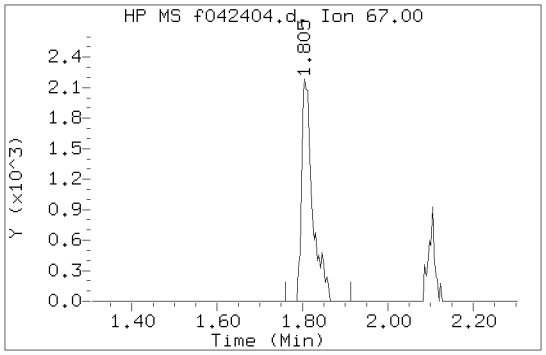
BEFORE

MASS
67
AREA
3984
HEIGHT
2186
24-Apr-2024
13:49
firat
tastan



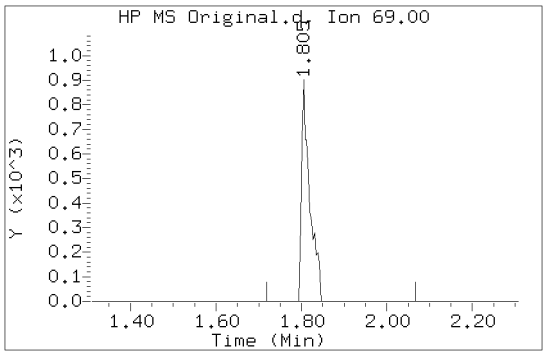
AFTER

MASS
67
AREA
3984
HEIGHT
2186
24-Apr-2024
13:49
firat
tastan



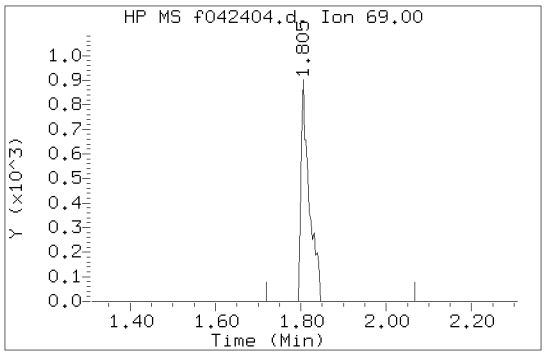
BEFORE

MASS
69
AREA
1228
HEIGHT
902
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
69
AREA
1228
HEIGHT
902
24-Apr-2024
13:49
firat
tastan



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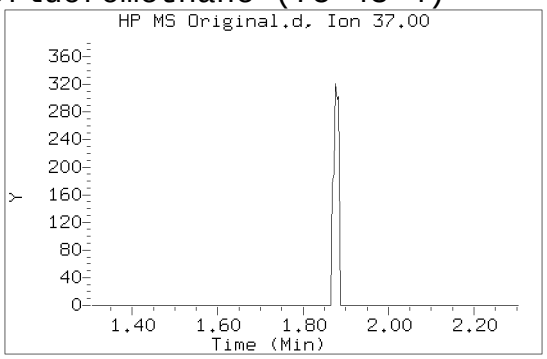
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

Dichlorofluoromethane (75-43-4)

Reason Code:

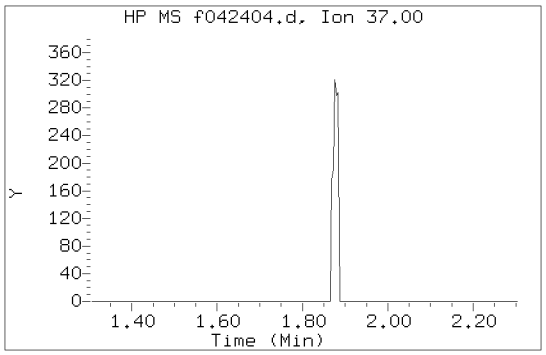
BEFORE

MASS
37
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
37
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

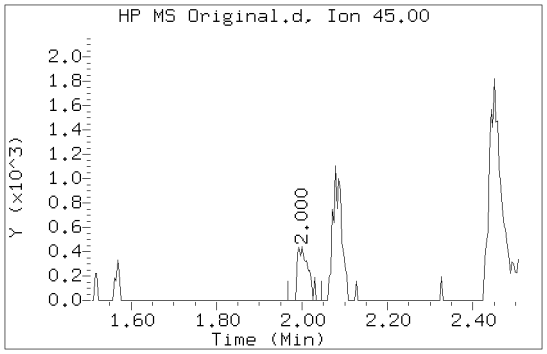


Ethanol (64-17-5)

Reason Code:

BEFORE

MASS
45
AREA
775
HEIGHT
442
24-Apr-2024
13:49
firat
tastan



AFTER

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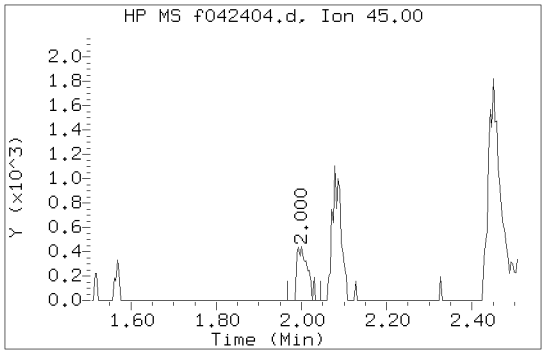
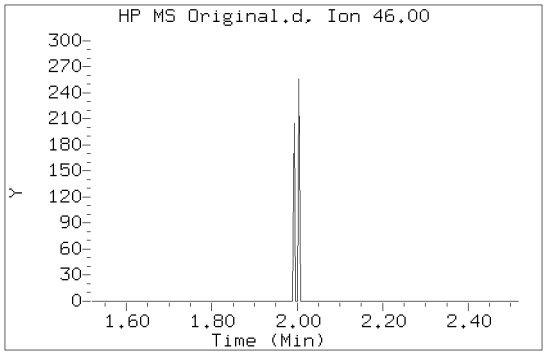
AREA
775
HEIGHT
442
24-Apr-2024
13:49
firat
tastan



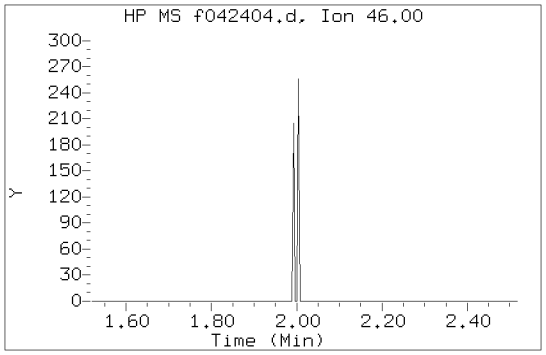
BEFORE

MASS
46
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



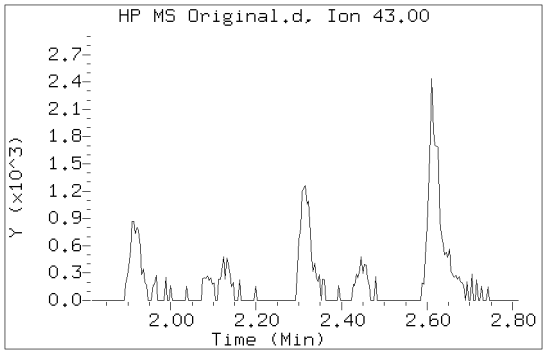
AFTER

MASS
46
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



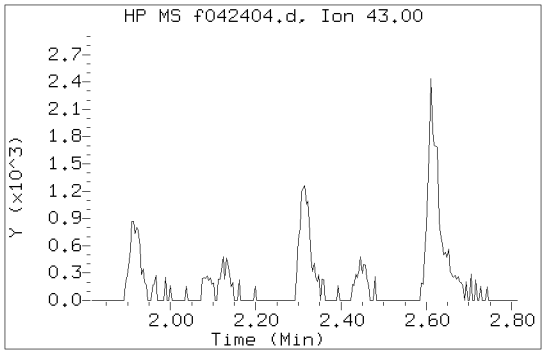
BEFORE

MASS
43
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
43
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



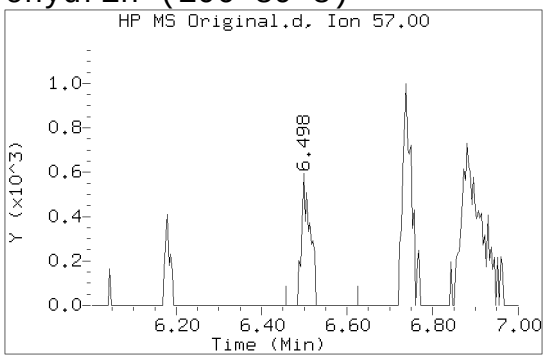
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042404.d
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

Epichlorohydrin (106-89-8)

Reason Code:

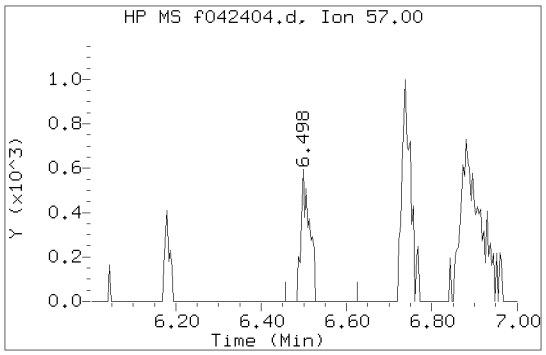
BEFORE

MASS
57
AREA
840
HEIGHT
595
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
57
AREA
840
HEIGHT
595
24-Apr-2024
13:49
firat
tastan



BEFORE

MASS
49
AREA
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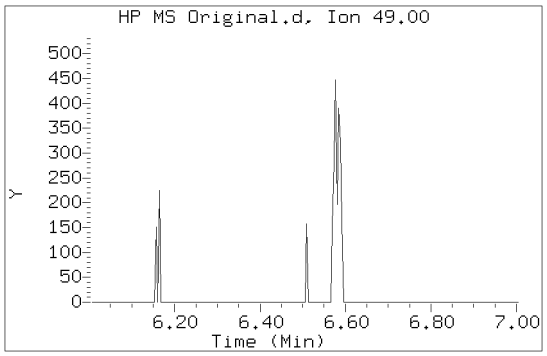
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
49
AREA
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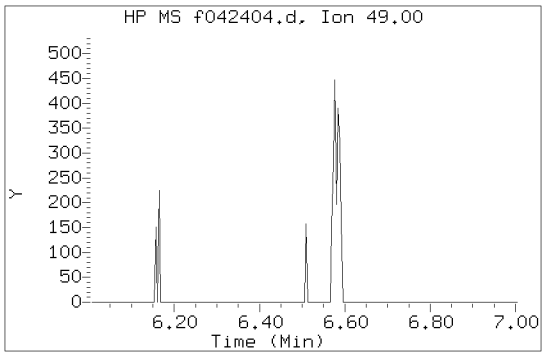
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

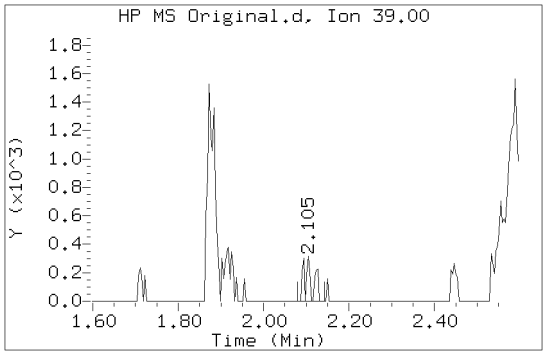


Isoprene (78-79-5)

Reason Code:

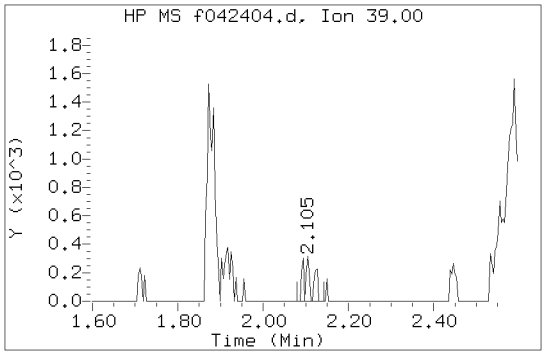
BEFORE

MASS
39
AREA
414
HEIGHT
317
24-Apr-2024
13:49
firat
tastan



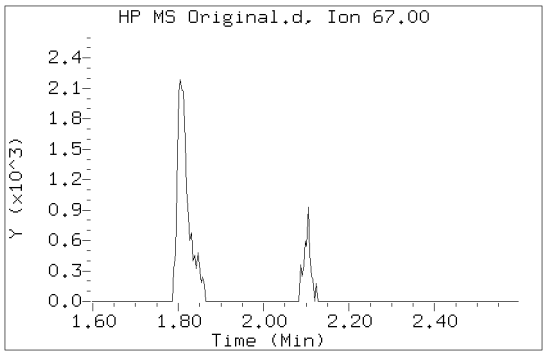
AFTER

MASS
39
AREA
414
HEIGHT
317
24-Apr-2024
13:49
firat
tastan



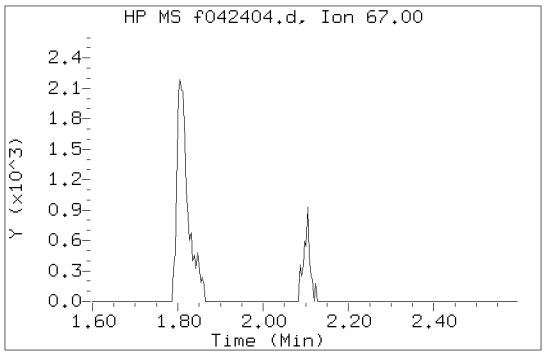
BEFORE

MASS
67
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
67
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



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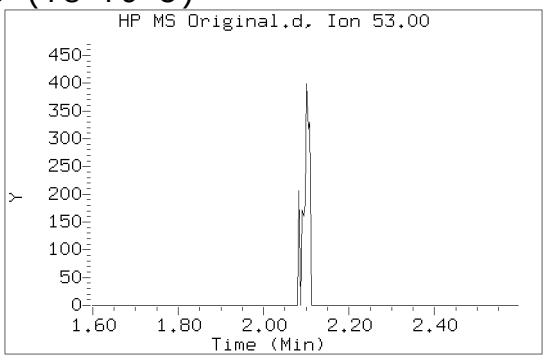
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

Isoprene (78-79-5)

Reason Code:

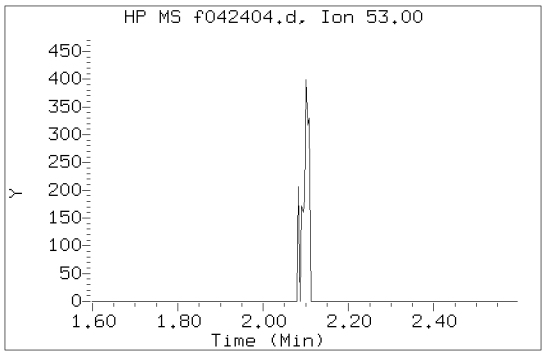
BEFORE

MASS
53
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
53
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

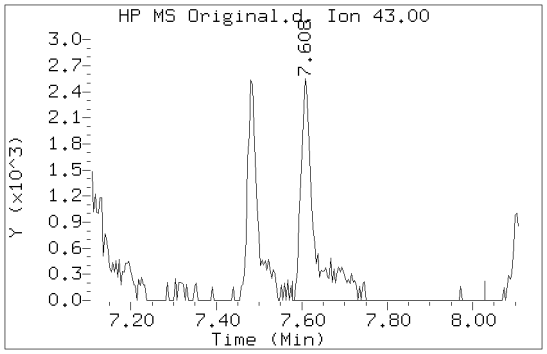


n-Butyl acetate (123-86-4)

Reason Code:

BEFORE

MASS
43
AREA
5981
HEIGHT
2550
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
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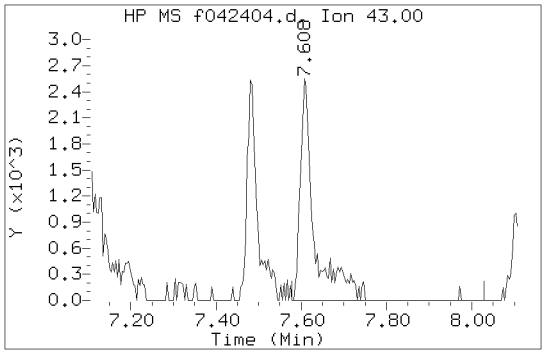
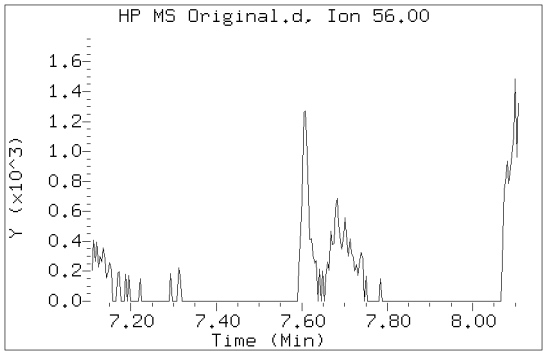
AREA
5981
HEIGHT
2550
24-Apr-2024
13:49
firat
tastan



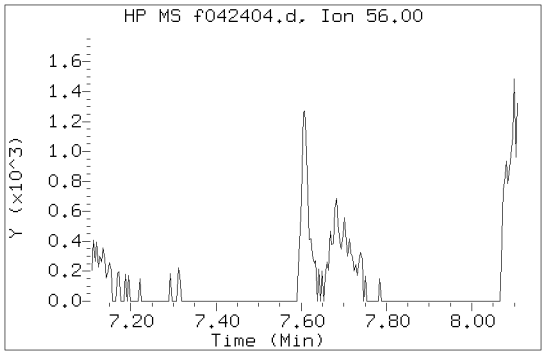
BEFORE

MASS
56
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



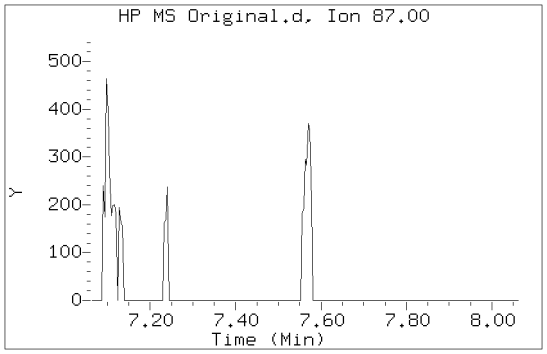
AFTER

MASS
56
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



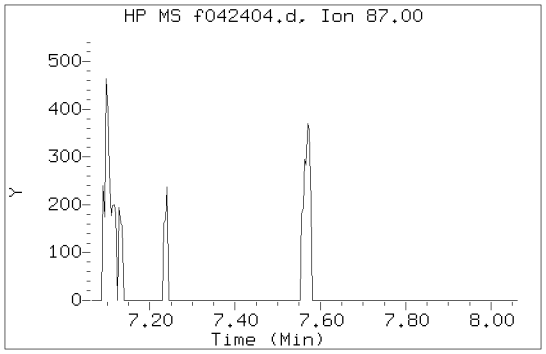
BEFORE

MASS
87
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
87
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



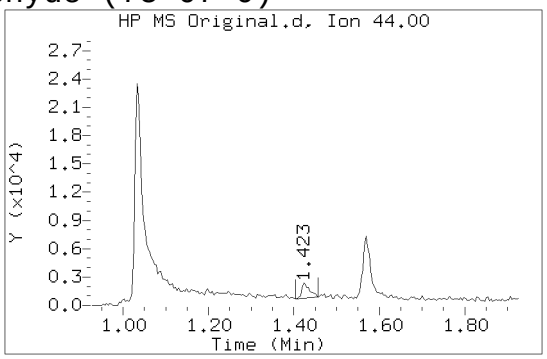
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042404.d
Inj Date : 24-APR-2024 10:36
InstruID : voa10.i
LabSampID : VSTD002

Acetaldehyde (75-07-0)

Reason Code:

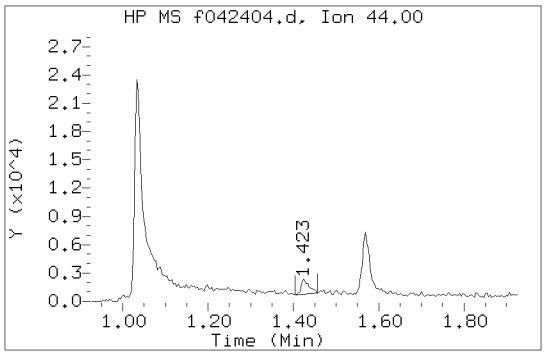
BEFORE

MASS
44
AREA
2029
HEIGHT
1585
24-Apr-2024
13:49
firat
tastan



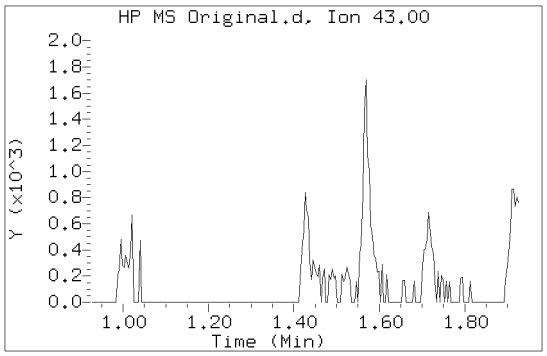
AFTER

MASS
44
AREA
2029
HEIGHT
1585
24-Apr-2024
13:49
firat
tastan



BEFORE

MASS
43
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
0
24-Apr-2024
13:49
firat
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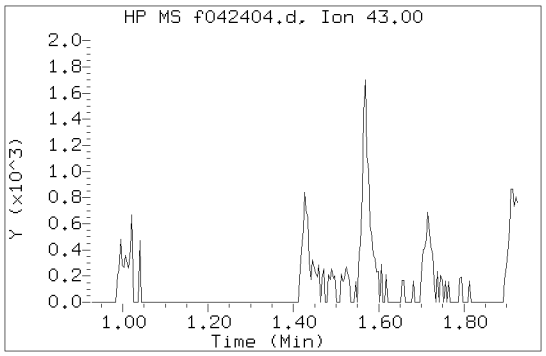
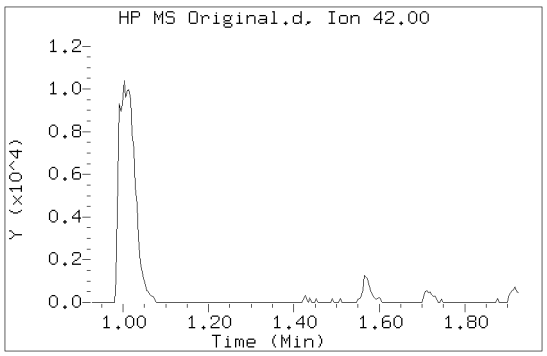


BEFORE

MASS
42
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



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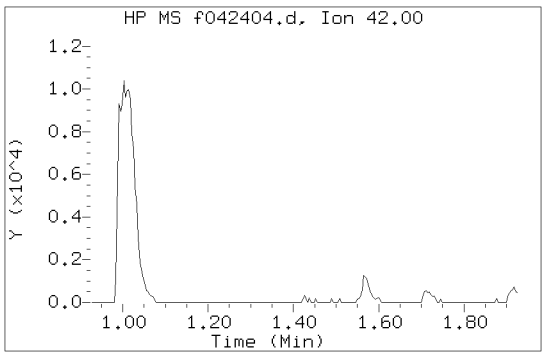

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042405.D Page 1
Report Date: 21-May-2024 11:20

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042405.D
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Inj Date : 24-APR-2024 10:57
Operator : TS Inst ID: voa10.i
Smp Info : VSTD005;VSTD005;1;5
Misc Info : V10;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa10.i\F240424.b\8260W.m
Meth Date : 21-May-2024 11:20 rucha.pate Quant Type: ISTD
Cal Date : 24-APR-2024 10:57 Cal File: F042405.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_8260.sub
Target Version: 4.14

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	4.695	4.695	(1.000)	186604	50.0000	
2	Dichlorodifluoromethane	85	1.149	1.149	(0.245)	5812	5.00000	5.88
3	Chloromethane	50	1.295	1.295	(0.276)	8424	5.00000	5.25
4	Propionitrile	54	4.151	4.151	(0.884)	11829	50.0000	54.21(a)
5	Vinyl Chloride	62	1.355	1.351	(0.289)	7748	5.00000	6.16
6	Bromomethane	94	1.580	1.572	(0.337)	2818	5.00000	6.77
7	Chloroethane	64	1.659	1.655	(0.353)	5068	5.00000	5.40
8	Trichlorofluoromethane	101	1.853	1.850	(0.395)	10196	5.00000	5.88
9	Acrolein	56	3.169	3.169	(0.675)	4189	10.0000	13.90(a)
10	Acetone	43	2.315	2.314	(0.493)	6213	10.0000	9.22
11	1,1-Dichloroethene	96	2.270	2.266	(0.483)	6453	5.00000	5.29
12	Isobutyl Alcohol	43	5.167	5.160	(1.101)	22926	100.000	101.66
13	Acetonitrile	39	2.584	2.584	(0.551)	10863	50.0000	49.25(M)
14	Allyl Chloride	41	2.588	2.584	(0.551)	23254	5.00000	5.90(M)
15	Iodomethane	142	2.393	2.386	(0.510)	7443	10.0000	12.54
16	Acrylonitrile	53	2.933	2.933	(0.625)	5825	10.0000	9.67(a)
17	Methylene Chloride	84	2.693	2.697	(0.574)	8394	5.00000	5.20
18	Methyl tert-butyl ether	73	2.978	2.978	(0.634)	21335	5.00000	5.24
19	Carbon Disulfide	76	2.446	2.449	(0.521)	39454	10.0000	10.35
20	trans-1,2-Dichloroethene	96	2.967	2.963	(0.632)	6653	5.00000	5.13
21	Vinyl Acetate	43	4.193	4.193	(0.893)	8703	10.0000	10.49(M)

22 1,1-Dichloroethane	63	3.398	3.394 (0.724)	12877	5.00000	5.22(T)
23 Chloroprene	53	3.499	3.495 (0.745)	10083	5.00000	5.23

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.095	4.095	(0.872)	7630	10.0000	11.28
	25	Methacrylonitrile	41	4.339	4.331	(0.924)	6308	5.00000	4.72
	26	2,2-Dichloropropane	77	4.054	4.054	(0.863)	9122	5.00000	5.46
	27	cis-1,2-Dichloroethene	96	4.058	4.058	(0.864)	7583	5.00000	5.06
	28	Chloroform	83	4.436	4.432	(0.945)	12617	5.00000	5.20
	29	Bromochloromethane	128	4.328	4.328	(0.922)	3742	5.00000	3.94(a)
$	30	Dibromofluoromethane	113	4.612	4.609	(0.982)	7417	5.00000	5.31
	31	1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	10575	5.00000	5.45
	32	1,1-Dichloropropene	75	4.815	4.807	(0.886)	10446	5.00000	5.12
	33	1,2-Dichloroethane	62	5.036	5.040	(0.926)	9705	5.00000	5.08
	34	Carbon Tetrachloride	117	4.800	4.804	(0.883)	9571	5.00000	5.47
$	35	1,2-Dichloroethane-d4	65	4.957	4.961	(1.056)	8362	5.00000	5.13
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	241565	50.0000	
	37	Benzene	78	5.025	5.021	(0.924)	29541	5.00000	5.07
	38	Trichloroethene	130	5.677	5.677	(1.044)	8575	5.00000	5.21
	39	Bromodichloromethane	83	6.157	6.157	(1.132)	8917	5.00000	5.15
	40	Methyl Methacrylate	41	6.044	6.041	(1.287)	7663	5.00000	4.79
	42	1,2-Dichloropropane	63	5.894	5.433	(1.084)	8067	5.00000	5.36(M)
	43	2-Nitropropane	43	6.374	6.378	(1.358)	2063	5.00000	6.80(M)
	44	Dibromomethane	93	5.996	5.992	(1.103)	4217	5.00000	5.06
	45	4-Methyl-2-Pentanone	43	6.738	6.816	(0.834)	17671	10.0000	3.38(a)
	46	cis-1,3-Dichloropropene	75	6.577	6.577	(1.210)	9395	5.00000	4.98(a)
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	215358	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	28577	5.00000	1.60(a)
	49	Ethyl Methacrylate	69	7.188	6.824	(1.322)	11194	5.00000	5.08
	50	Toluene	91	6.880	6.880	(0.851)	32514	5.00000	1.71
	51	trans-1,3-Dichloropropene	75	7.083	7.083	(1.303)	6819	5.00000	6.01
	52	2-Hexanone	43	7.484	7.480	(0.926)	12780	10.0000	3.95(a)
	53	1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	5948	5.00000	1.74(a)
	54	1,3-Dichloropropane	76	7.383	7.386	(0.913)	12180	5.00000	1.75(a)
	55	Dibromochloromethane	129	7.581	7.578	(0.938)	6947	5.00000	1.56(a)
	56	Tetrachloroethene	164	7.364	7.364	(0.911)	6862	5.00000	1.67(a)
	57	1,2-Dibromoethane	107	7.675	7.671	(0.949)	6009	5.00000	1.81(a)
	58	1-Chlorohexane	55	8.102	8.087	(1.490)	8900	5.00000	6.26
	59	Chlorobenzene	112	8.106	8.106	(1.003)	21680	5.00000	1.74(a)
	60	1,1,1,2-Tetrachloroethane	131	8.185	8.181	(1.013)	6689	5.00000	1.61(a)
	61	Ethylbenzene	106	8.211	8.211	(1.016)	10567	5.00000	1.66(M)
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	26835	10.0000	3.35
	63	o-Xylene	106	8.646	8.650	(1.070)	13179	5.00000	1.68(M)
	64	Styrene	104	8.665	8.661	(1.072)	22114	5.00000	1.67(a)
	66	Bromoform	173	8.803	8.811	(1.089)	4979	5.00000	2.00(a)
	67	Isopropylbenzene	105	8.968	8.968	(1.109)	31593	5.00000	1.66(a)
	68	1,1,2,2-Tetrachloroethane	83	9.220	9.219	(0.916)	9825	5.00000	5.28
$	69	4-Bromofluorobenzene	95	9.096	9.092	(1.125)	11639	5.00000	1.96(a)
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	117118	50.0000	
	71	1,2,3-Trichloropropane	75	9.250	9.092	(0.918)	9844	5.00000	5.25(M)
	72	trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	1396	5.00000	1.88
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	35844	5.00000	5.26
	74	Bromobenzene	156	9.216	9.216	(0.915)	9584	5.00000	4.92(a)
	75	1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	26334	5.00000	5.04
	76	2-Chlorotoluene	91	9.388	9.384	(0.932)	22603	5.00000	5.08
	77	4-Chlorotoluene	91	9.474	9.478	(0.941)	25683	5.00000	5.08

78	tert-Butylbenzene	119	9.744	10.055 (0.968)	22733	5.00000	5.37
79	1,2,4-Trimethylbenzene	105	9.786	9.786 (0.972)	26498	5.00000	5.05

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
81	sec-Butylbenzene	105	9.928	9.932	(0.986)	29057	5.00000	5.25
82	p-Isopropyltoluene	119	10.055	10.055	(0.999)	27609	5.00000	5.34
83	1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	17171	5.00000	5.06
84	1,4-Dichlorobenzene	146	10.089	10.085	(1.002)	17853	5.00000	5.02
87	n-Butylbenzene	91	10.400	10.400	(1.033)	23686	5.00000	5.29
88	1,2-Dichlorobenzene	146	10.404	10.085	(1.033)	17178	5.00000	5.02
89	1,2-Dibromo-3-Chloropropane	155	11.056	11.053	(1.098)	1502	5.00000	6.27
90	1,2,4-Trichlorobenzene	180	11.754	11.754	(1.167)	12403	5.00000	4.97(a)
91	Hexachlorobutadiene	225	11.900	11.904	(1.182)	5951	5.00000	5.08
92	Naphthalene	128	11.960	11.960	(1.188)	32078	5.00000	4.41(a)
93	1,2,3-Trichlorobenzene	180	12.162	12.158	(1.208)	11489	5.00000	5.03
135	1,4-Dioxane	88	6.044	6.041	(1.287)	2118	100.000	109.57(aM)
130	Ethyl Acetate	43	4.193	4.193	(0.893)	7671	5.00000	4.58(a)
136	n-Hexane	57	3.267	3.259	(0.696)	6216	5.00000	5.88
138	Freon TF	101	2.281	2.277	(0.486)	6474	5.00000	5.87
141	Cyclohexane	56	4.687	4.691	(0.998)	12015	5.00000	5.62
142	Tetrahydrofuran	42	4.403	4.395	(0.938)	2782	10.0000	9.90
146	Methyl Acetate	43	2.614	2.614	(0.557)	11261	5.00000	4.97(aM)
147	Methylcyclohexane	55	5.864	5.861	(1.079)	11764	5.00000	5.36(M)
149	Isopropyl alcohol	45	2.449	2.449	(0.522)	10762	100.000	101.90
151	4-Methyl-2-pentanol	45	7.109	7.102	(1.307)	53271	100.000	127.36(M)
156	Diisopropyl ether	45	3.510	3.507	(0.748)	27594	5.00000	5.52(TM)
158	Dichlorofluoromethane	67	1.805	1.805	(0.384)	11738	5.00000	5.56(M)
166	1,2,3-Trimethylbenzene	105	10.138	10.142	(1.007)	26562	5.00000	5.12
160	2-Methylnaphthalene	142	12.904	12.904	(1.281)	12486	5.00000	5.34
180	1-Methylnaphthalene	142	13.062	13.062	(1.297)	11788	5.00000	5.02
174	tert-Amyl methyl ether	73	5.175	5.171	(1.102)	20520	5.00000	4.84(a)
175	tert-Butyl ethyl ether	59	3.926	3.923	(0.836)	22252	5.00000	5.09
140	1,3-Butadiene	54	1.377	1.377	(0.293)	7278	5.00000	5.76
189	n-Butyl acetate	43	7.608	7.608	(0.941)	11715	5.00000	1.39(a)
86	Benzyl Chloride	91	10.400	10.400	(1.287)	23686	5.00000	1.66(a)
178	Ethylene oxide	44	1.569	1.572	(0.334)	21184	10.0000	9.29
182	Epichlorohydrin	57	6.498	6.502	(1.195)	2181	20.0000	23.12(M)
185	Isoprene	39	2.105	2.097	(0.448)	2126	5.00000	6.22
150	Allyl alcohol	57	3.480	3.492	(0.741)	2108	100.000	123.28
162	Butyl acrylate	55	8.642	8.638	(1.069)	13471	5.00000	1.99(a)
194	Acetaldehyde	44	1.426	1.426	(0.304)	4433	20.0000	13.38(M)
131	Methyl Acrylate	55	4.219	4.219	(0.899)	7042	5.00000	5.19
133	Ethyl Acrylate	55	5.823	5.823	(1.240)	8754	5.00000	5.01(M)
203	2-Ethylhexyl Acrylate	55	11.949	11.945	(1.186)	5611	5.00000	4.78(aA)
204	2-Chloropropene	41	1.876	1.876	(0.400)	10308	5.00000	4.68(aA)
163	Butyl methacrylate	41	9.557	9.557	(0.949)	10338	5.00000	5.19
167	Ethanol	45	2.000	2.007	(0.426)	2237	100.000	111.54(M)
200	Dimethyl Disulfide	94	6.633	6.633	(0.821)	6833	5.00000	1.82(a)
M 94	1,2-Dichloroethylene (total)	96				14236	10.0000	(a)
M 95	Xylenes (total)	106				40014	15.0000	(a)

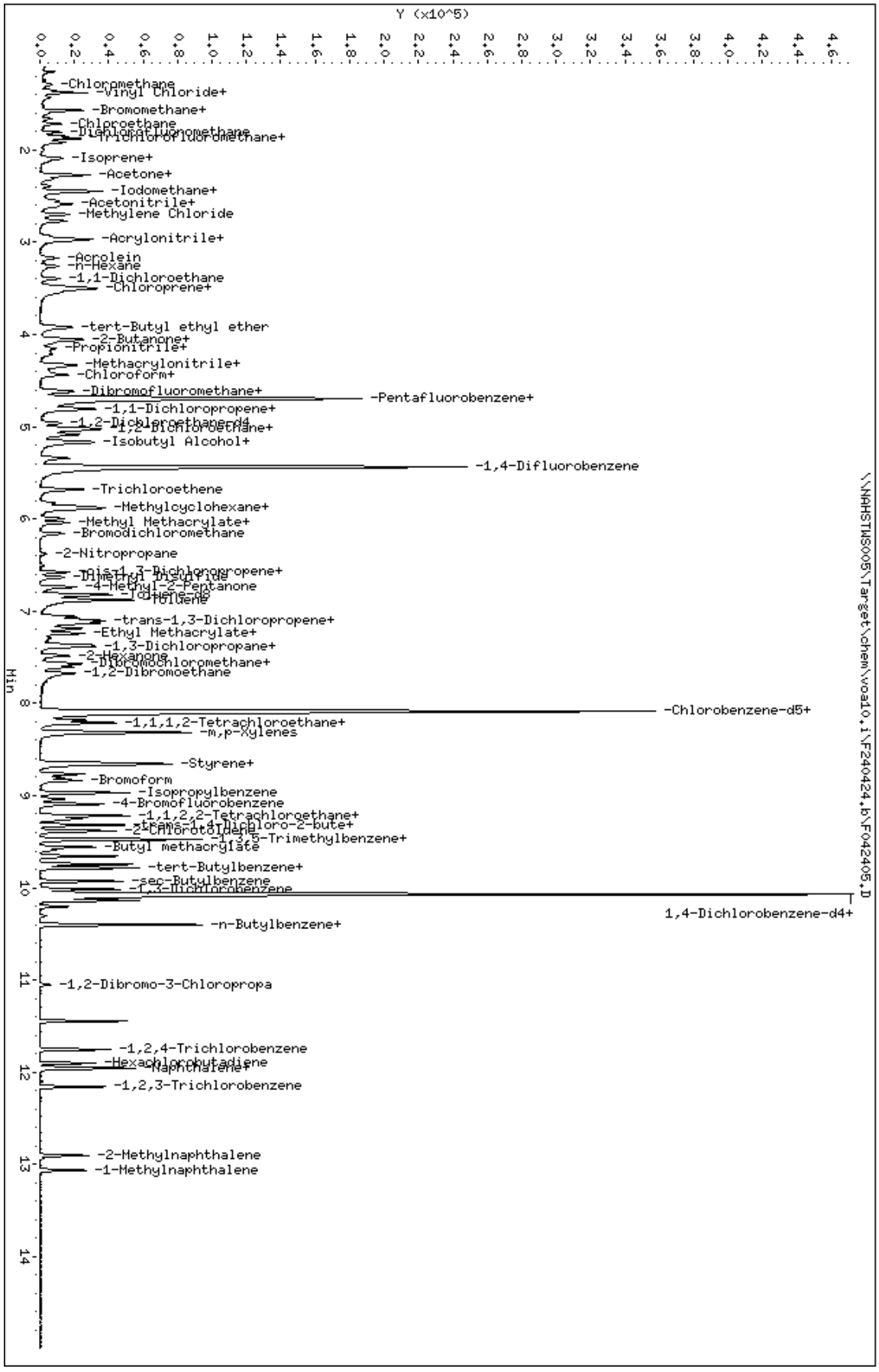
QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

QC Flag Legend

M - Compound response manually integrated.



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Instrument: voa10.i
Operator: TS
Column diameter: 0.18

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Inj Date : 24-APR-2024 10:57
InstruID : voa10.i
LabSampID : VSTD005

o-Xylene (95-47-6)

Reason Code:

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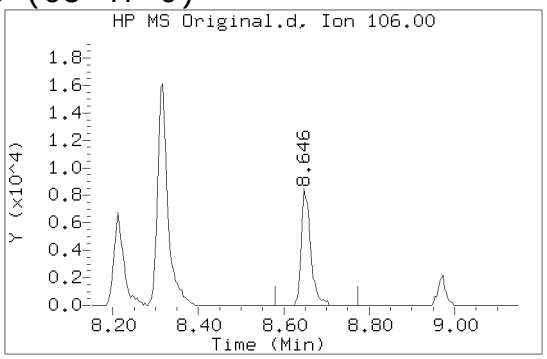

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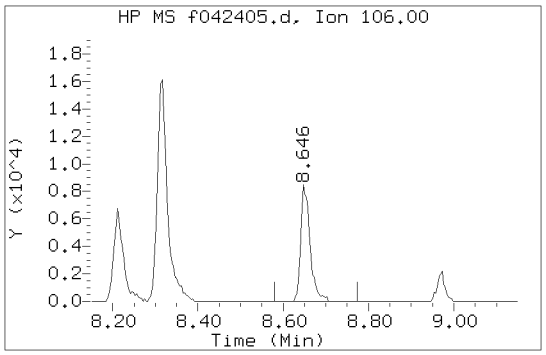

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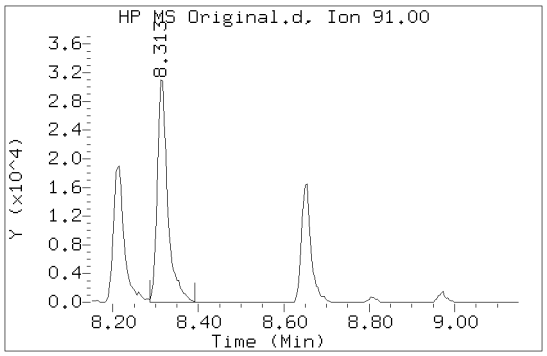

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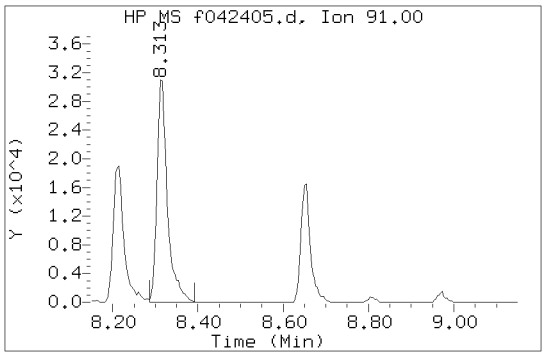

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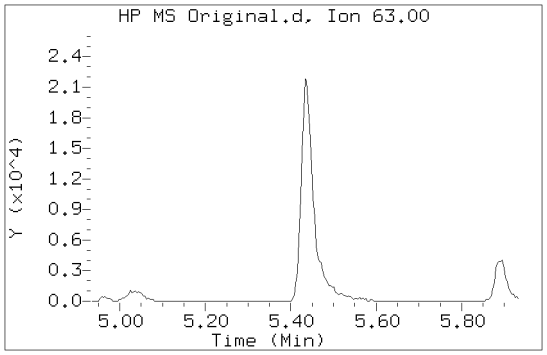

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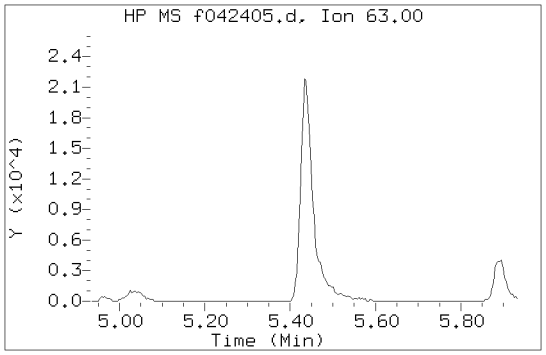

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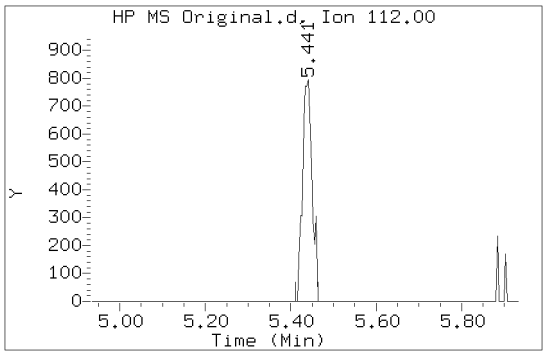

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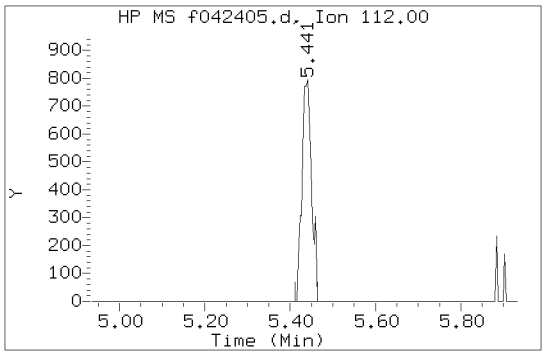

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Inj Date : 24-APR-2024 10:57
InstruID : voa10.i
LabSampID : VSTD005

Ethylbenzene (100-41-4)

Reason Code:

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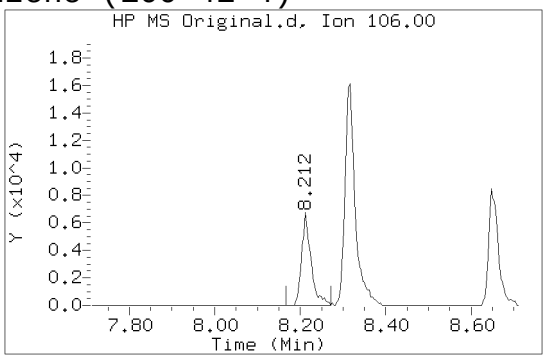

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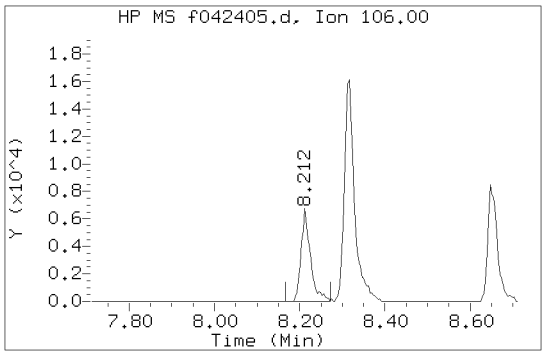

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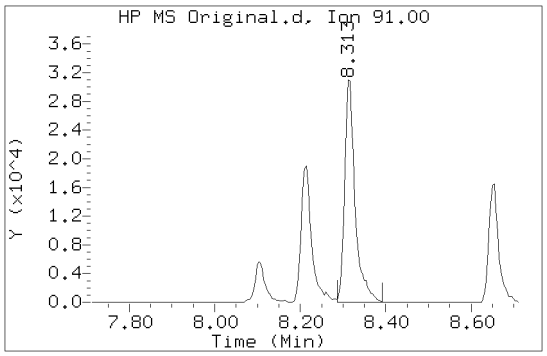
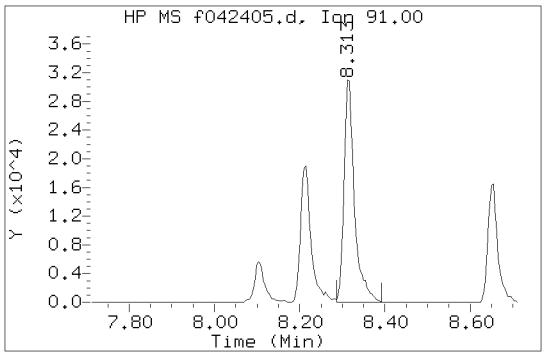


AFTER

MASS
91
AREA
52695
HEIGHT
31000
24-Apr-2024
13:49
firat
tastan

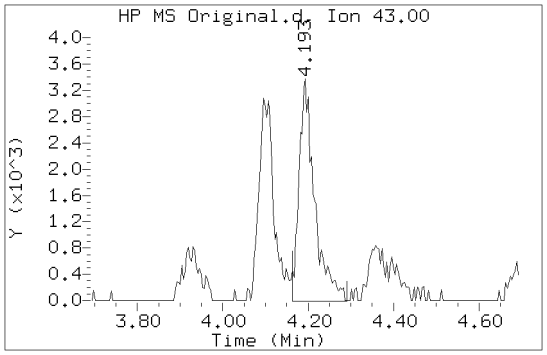


Vinyl Acetate (108-05-4)

Reason Code:

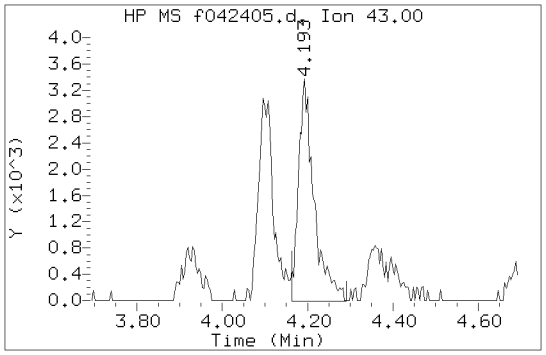
BEFORE

MASS
43
AREA
8703
HEIGHT
3381
24-Apr-2024
13:49
firat
tastan



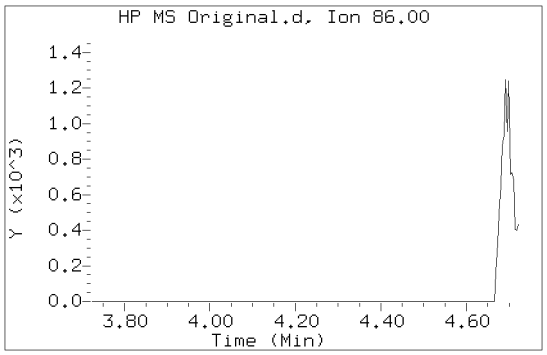
AFTER

MASS
43
AREA
8703
HEIGHT
3381
24-Apr-2024
13:49
firat
tastan



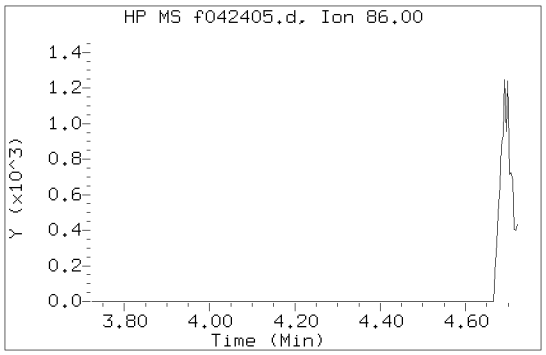
BEFORE

MASS
86
AREA
1246
HEIGHT
823
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
86
AREA
1246
HEIGHT
823
24-Apr-2024
13:49
firat
tastan



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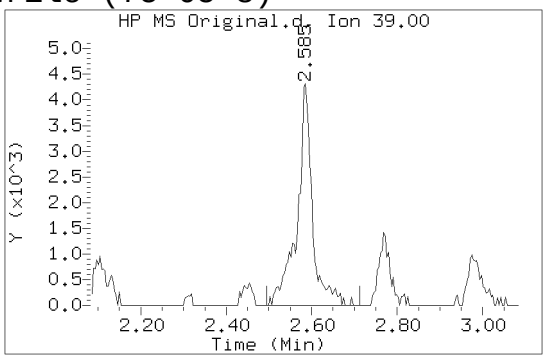
Inj Date : 24-APR-2024 10:57
InstruID : voa10.i
LabSampID : VSTD005

Acetonitrile (75-05-8)

Reason Code:

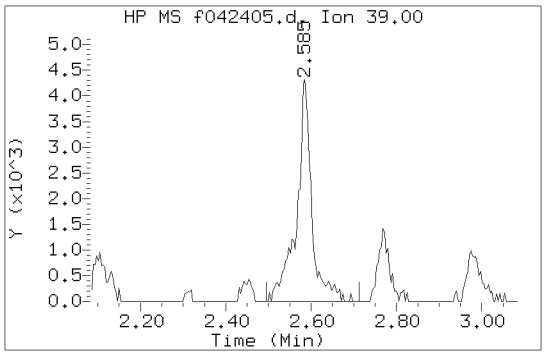
BEFORE

MASS
39
AREA
10863
HEIGHT
4316
24-Apr-2024
13:49
firat
tastan



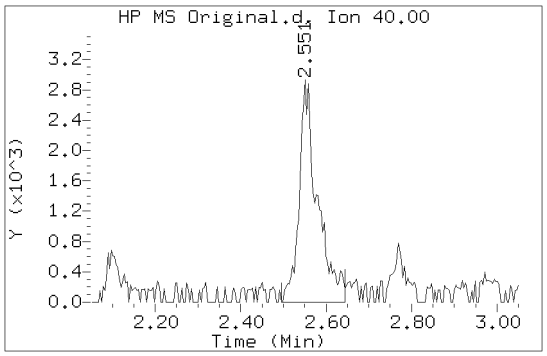
AFTER

MASS
39
AREA
10863
HEIGHT
4316
24-Apr-2024
13:49
firat
tastan



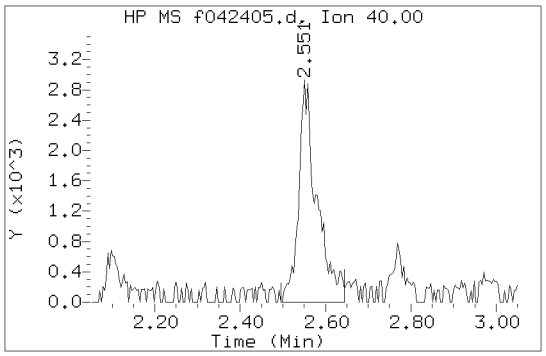
BEFORE

MASS
40
AREA
8776
HEIGHT
2930
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
40
AREA
8776
HEIGHT
2930
24-Apr-2024
13:49
firat
tastan

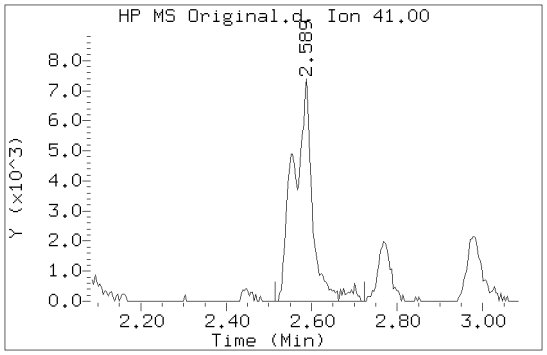


Allyl Chloride (107-05-1)

Reason Code:

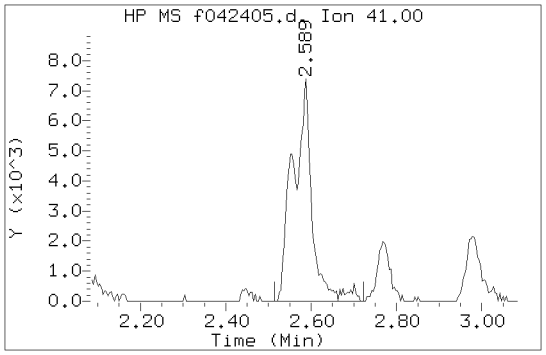
BEFORE

MASS
41
AREA
23254
HEIGHT
7392
24-Apr-2024
13:49
firat
tastan



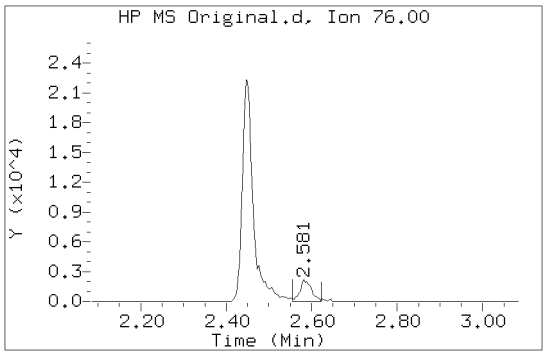
AFTER

MASS
41
AREA
23254
HEIGHT
7392
24-Apr-2024
13:49
firat
tastan



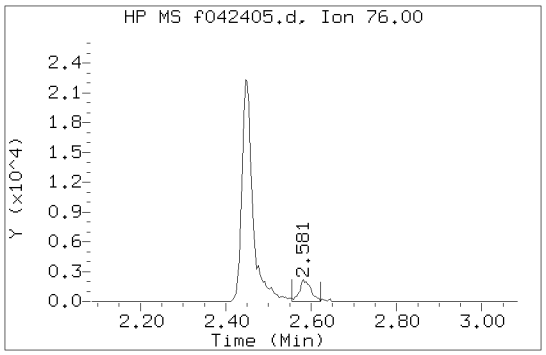
BEFORE

MASS
76
AREA
4085
HEIGHT
2186
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
76
AREA
4085
HEIGHT
2186
24-Apr-2024
13:49
firat
tastan



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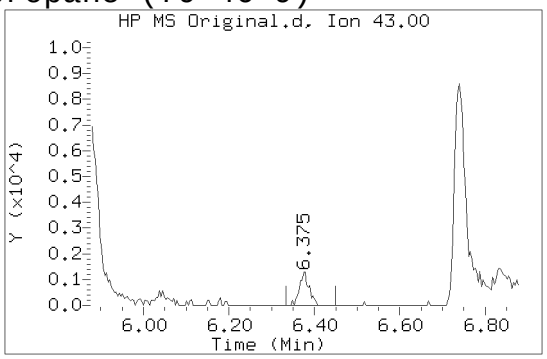
Inj Date : 24-APR-2024 10:57
InstruID : voa10.i
LabSampID : VSTD005

2-Nitropropane (79-46-9)

Reason Code:

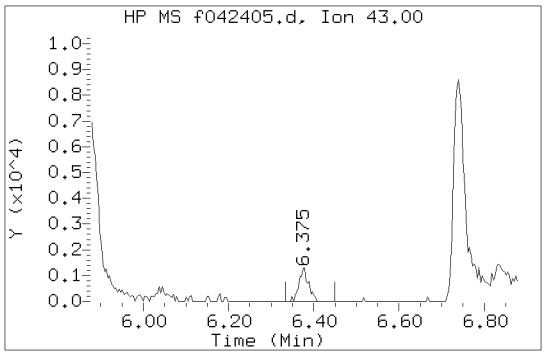
BEFORE

MASS
43
AREA
2063
HEIGHT
1305
24-Apr-2024
13:49
firat
tastan



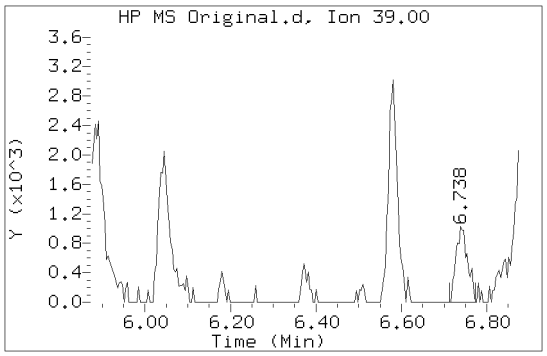
AFTER

MASS
43
AREA
2063
HEIGHT
1305
24-Apr-2024
13:49
firat
tastan



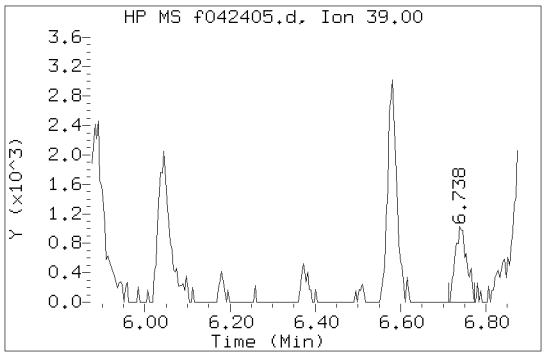
BEFORE

MASS
39
AREA
1934
HEIGHT
1028
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
39
AREA
1934
HEIGHT
1028
24-Apr-2024
13:49
firat
tastan

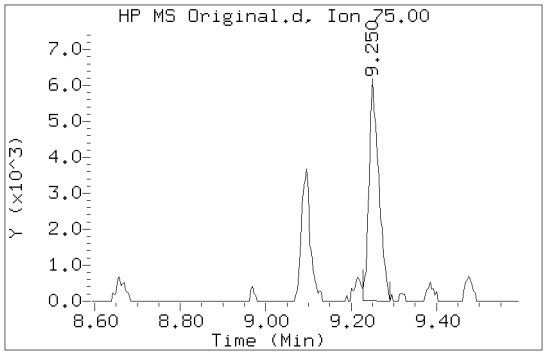


1,2,3-Trichloropropane (96-18-4)

Reason Code:

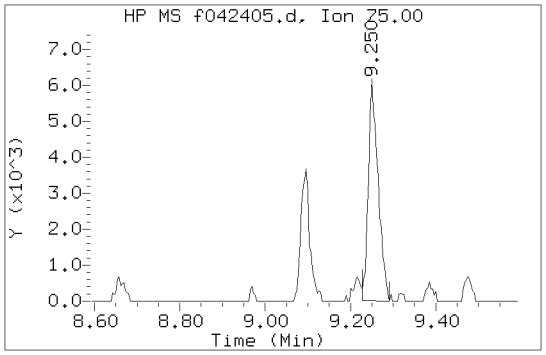
BEFORE

MASS
75
AREA
9844
HEIGHT
6174
24-Apr-2024
13:49
firat
tastan



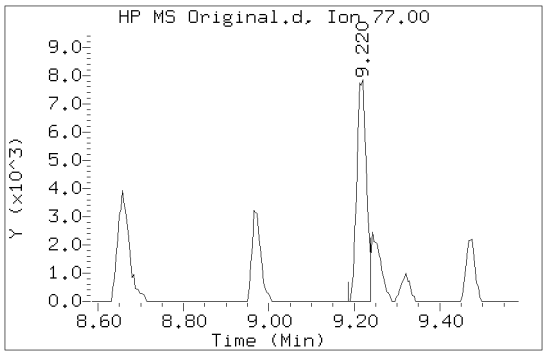
AFTER

MASS
75
AREA
9844
HEIGHT
6174
24-Apr-2024
13:49
firat
tastan



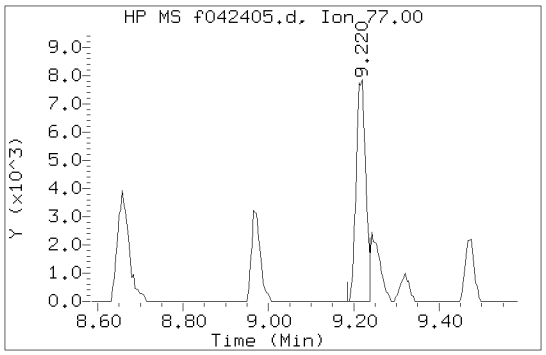
BEFORE

MASS
77
AREA
12403
HEIGHT
7855
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
77
AREA
12403
HEIGHT
7855
24-Apr-2024
13:49
firat
tastan



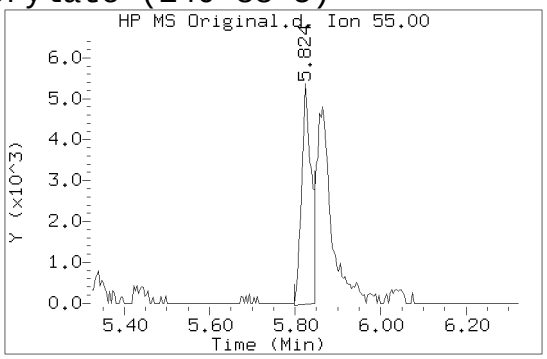
Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042405.d
Inj Date : 24-APR-2024 10:57
InstruID : voa10.i
LabSampID : VSTD005

Ethyl Acrylate (140-88-5)

Reason Code:

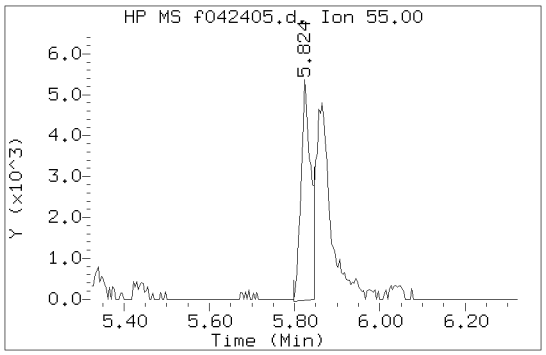
BEFORE

MASS
55
AREA
8754
HEIGHT
5396
24-Apr-2024
13:49
firat
tastan



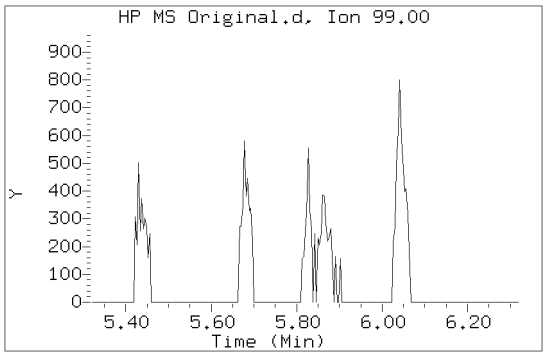
AFTER

MASS
55
AREA
8754
HEIGHT
5396
24-Apr-2024
13:49
firat
tastan



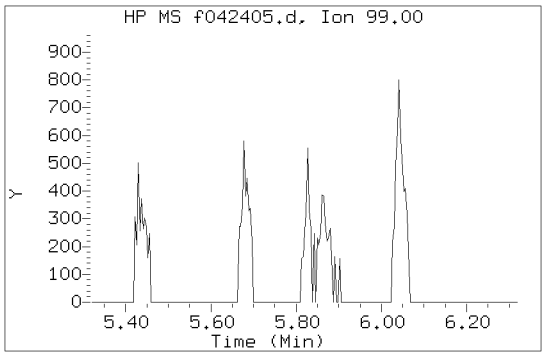
BEFORE

MASS
99
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
99
AREA
0
HEIGHT
0
24-Apr-2024
13:49
firat
tastan

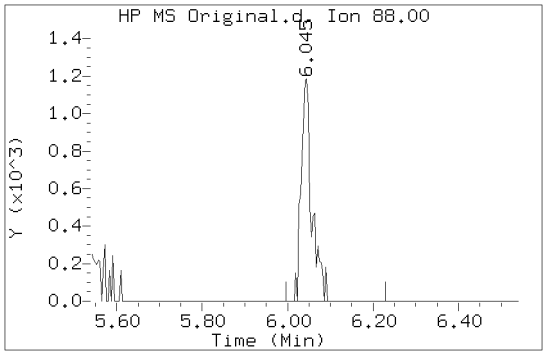


1,4-Dioxane ()

Reason Code:

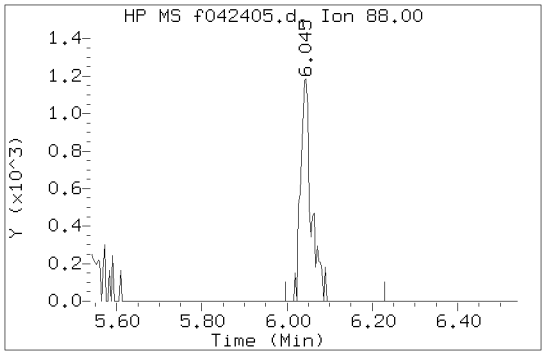
BEFORE

MASS
88
AREA
2118
HEIGHT
1185
24-Apr-2024
13:49
firat
tastan



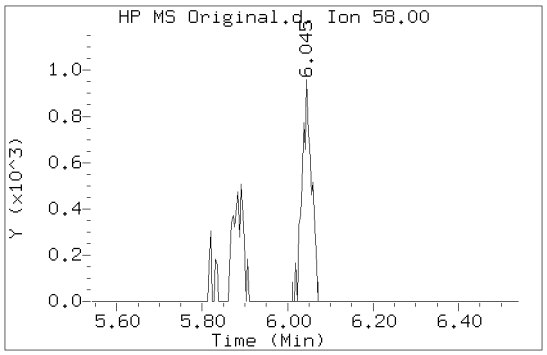
AFTER

MASS
88
AREA
2118
HEIGHT
1185
24-Apr-2024
13:49
firat
tastan



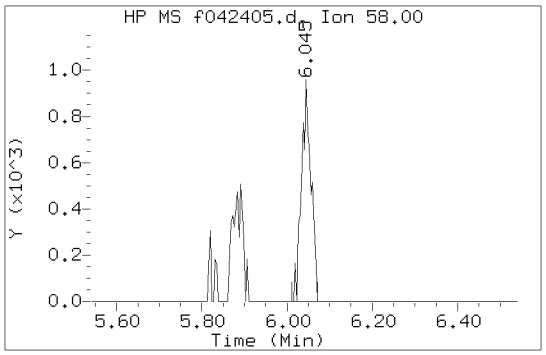
BEFORE

MASS
58
AREA
1503
HEIGHT
959
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
58
AREA
1503
HEIGHT
959
24-Apr-2024
13:49
firat
tastan



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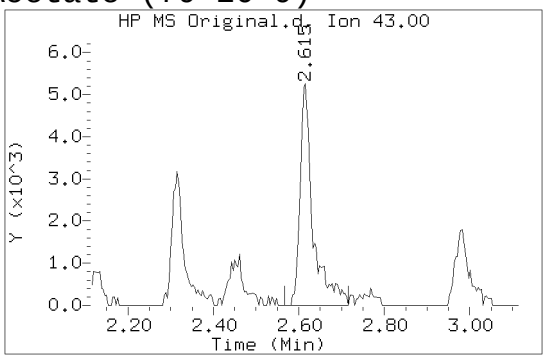
Inj Date : 24-APR-2024 10:57
InstruID : voa10.i
LabSampID : VSTD005

Methyl Acetate (79-20-9)

Reason Code:

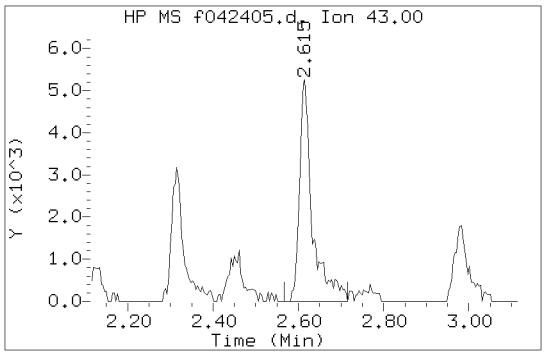
BEFORE

MASS
43
AREA
11261
HEIGHT
5259
24-Apr-2024
13:49
firat
tastan



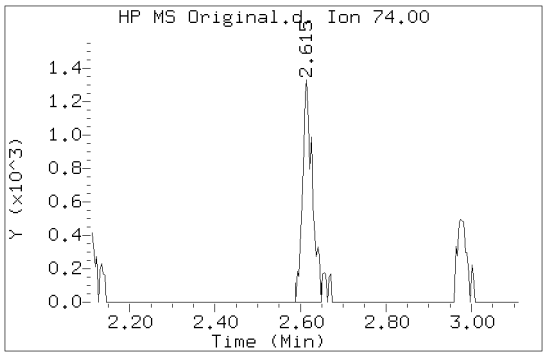
AFTER

MASS
43
AREA
11261
HEIGHT
5259
24-Apr-2024
13:49
firat
tastan



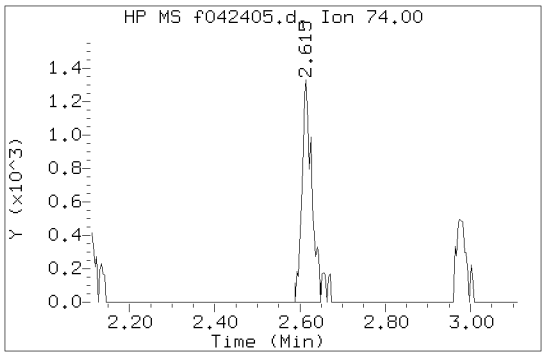
BEFORE

MASS
74
AREA
2153
HEIGHT
1331
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
74
AREA
2153
HEIGHT
1331
24-Apr-2024
13:49
firat
tastan

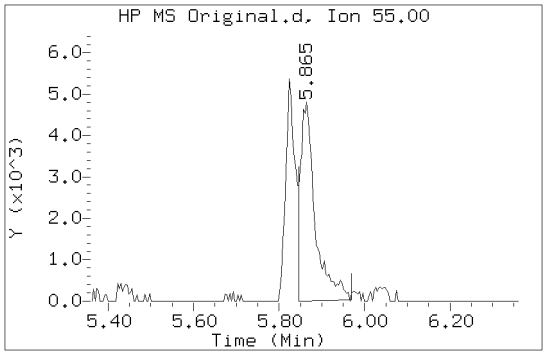


Methylcyclohexane (108-87-2)

Reason Code:

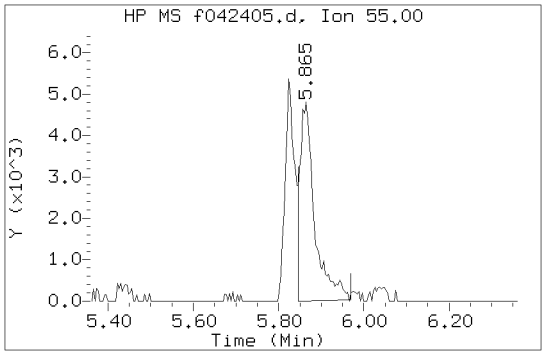
BEFORE

MASS
55
AREA
11764
HEIGHT
4809
24-Apr-2024
13:49
firat
tastan



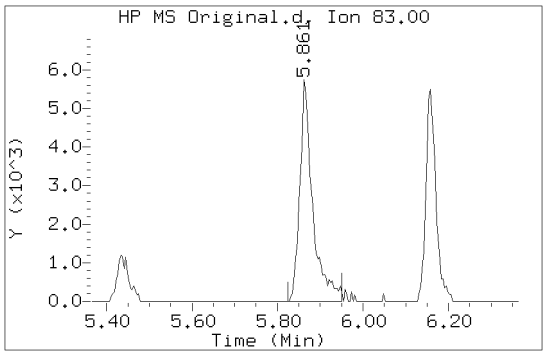
AFTER

MASS
55
AREA
11764
HEIGHT
4809
24-Apr-2024
13:49
firat
tastan



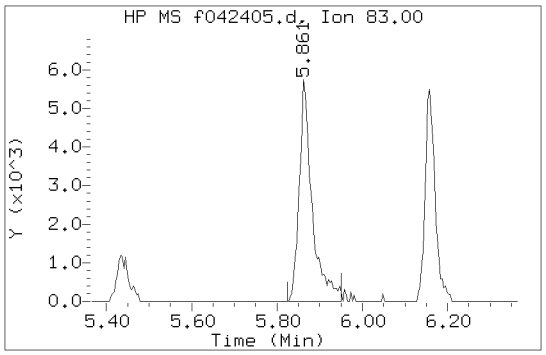
BEFORE

MASS
83
AREA
12325
HEIGHT
5746
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
83
AREA
12325
HEIGHT
5746
24-Apr-2024
13:49
firat
tastan



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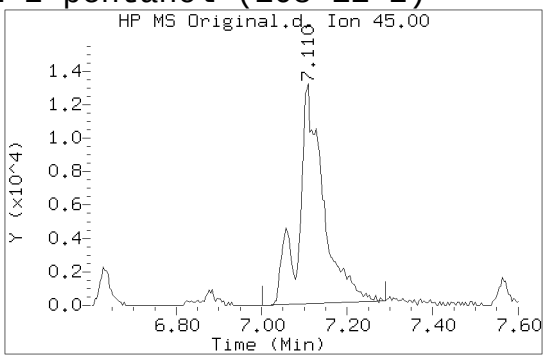
Inj Date : 24-APR-2024 10:57
InstruID : voa10.i
LabSampID : VSTD005

4-Methyl-2-pentanol (108-11-2)

Reason Code:

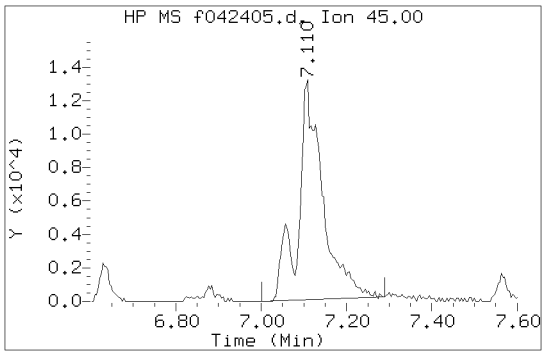
BEFORE

MASS
45
AREA
53271
HEIGHT
13150
24-Apr-2024
13:49
firat
tastan



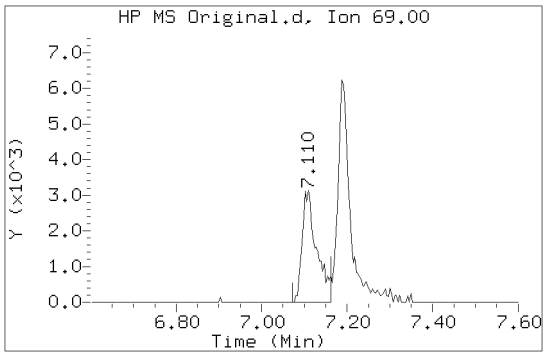
AFTER

MASS
45
AREA
53271
HEIGHT
13150
24-Apr-2024
13:49
firat
tastan



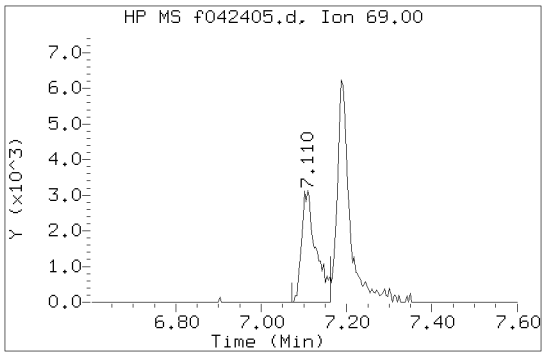
BEFORE

MASS
69
AREA
7577
HEIGHT
3134
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
69
AREA
7577
HEIGHT
3134
24-Apr-2024
13:49
firat
tastan



Diisopropyl ether (108-20-3)

Reason Code:

BEFORE

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HEIGHT
8833
24-Apr-2024
13:49
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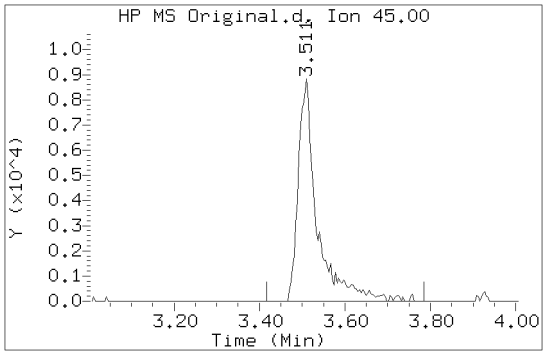

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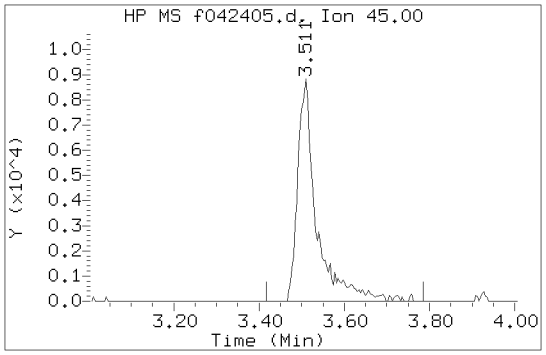

BEFORE

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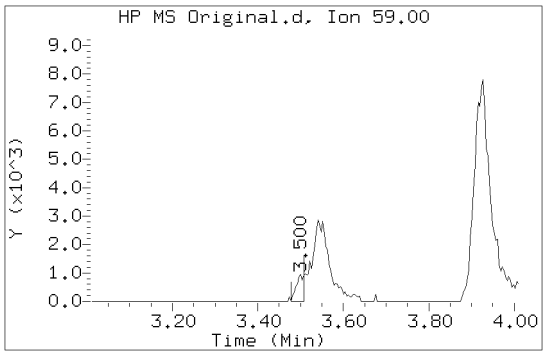

AFTER

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24-Apr-2024
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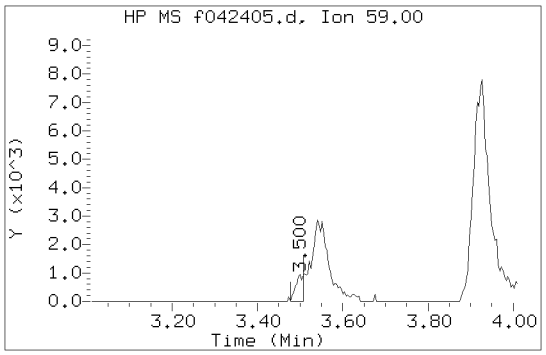

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InstruID : voa10.i
LabSampID : VSTD005

Diisopropyl ether (108-20-3)

Reason Code:

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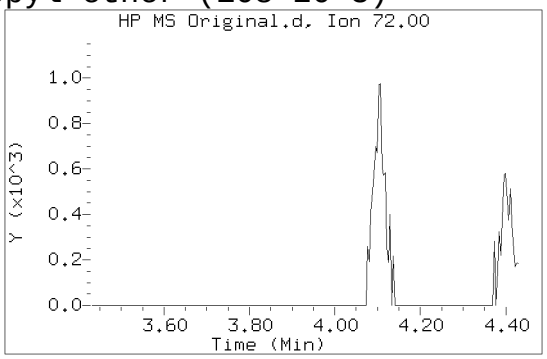

AFTER

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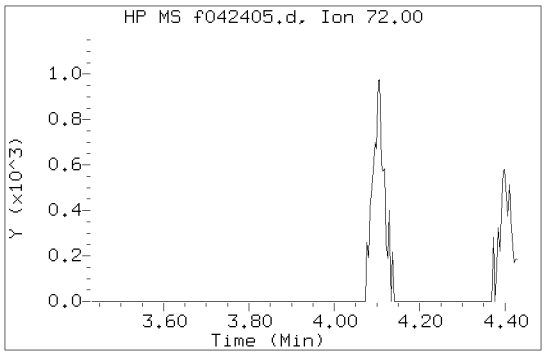

Dichlorofluoromethane (75-43-4)

Reason Code:

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6281
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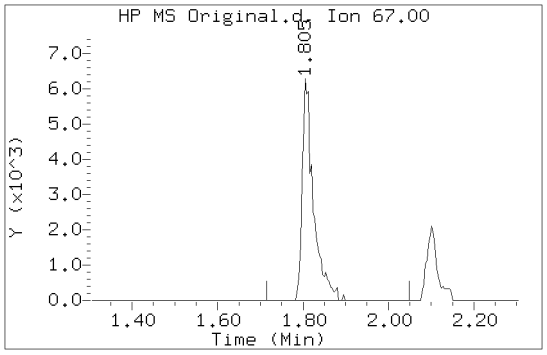

AFTER

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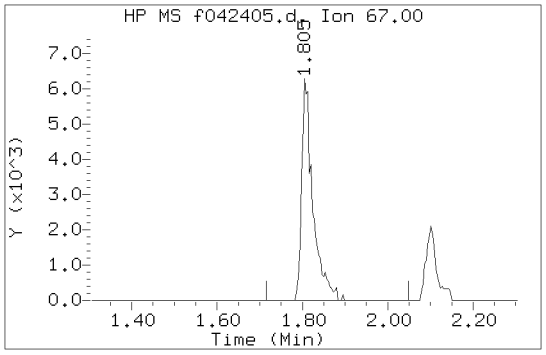

BEFORE

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24-Apr-2024
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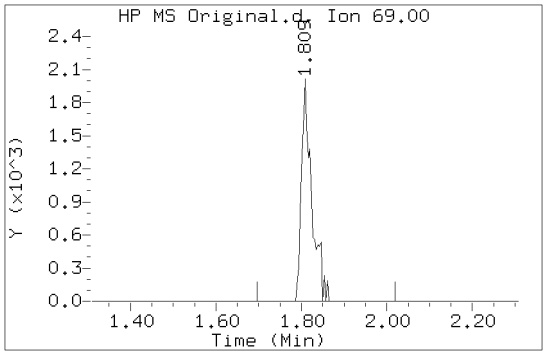

AFTER

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24-Apr-2024
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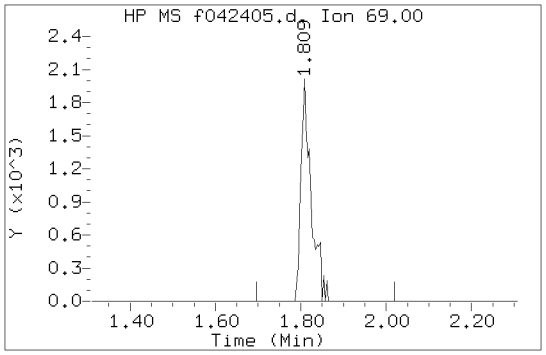

BEFORE

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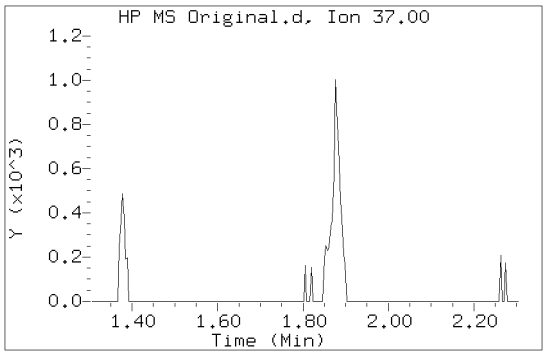

AFTER

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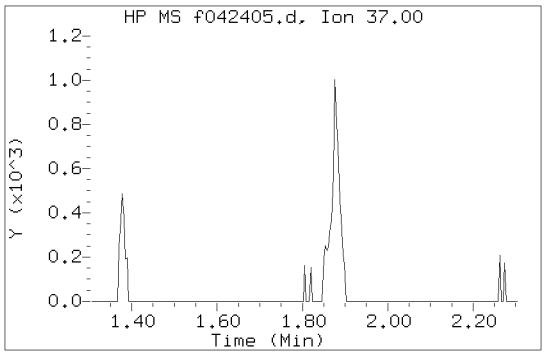

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InstruID : voa10.i
LabSampID : VSTD005

Ethanol (64-17-5)

Reason Code:

BEFORE

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24-Apr-2024
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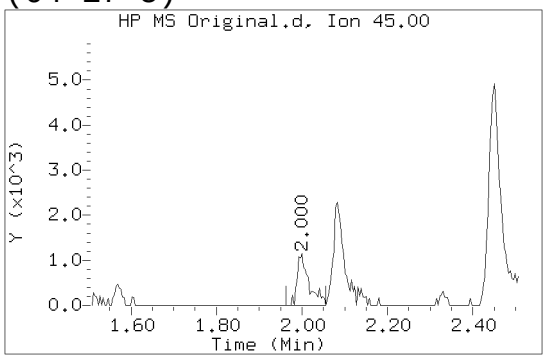

AFTER

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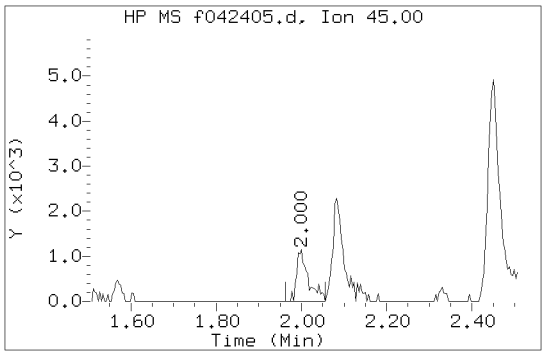

BEFORE

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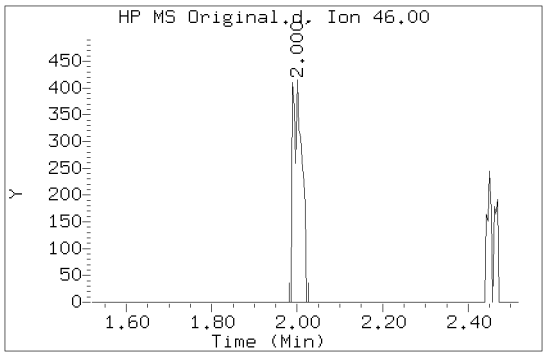

AFTER

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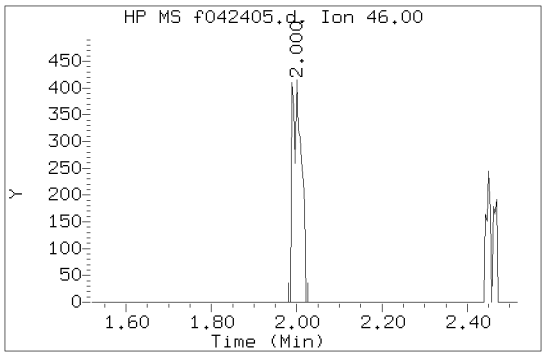

BEFORE

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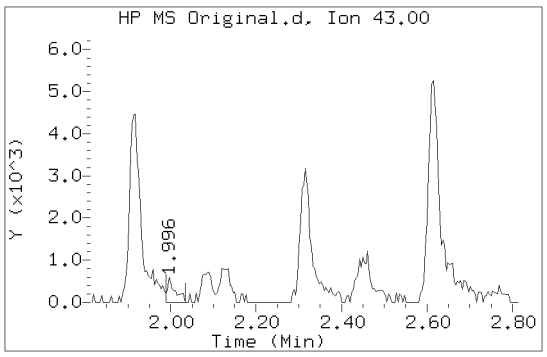

AFTER

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24-Apr-2024
13:49
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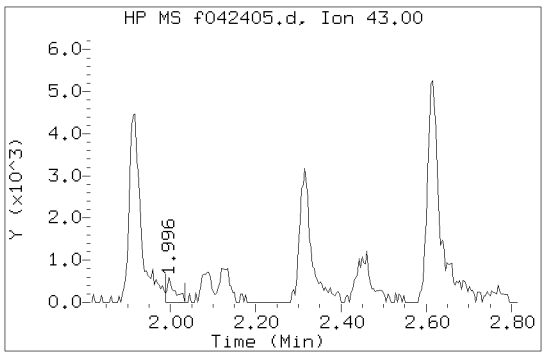

Epichlorohydrin (106-89-8)

Reason Code:

BEFORE

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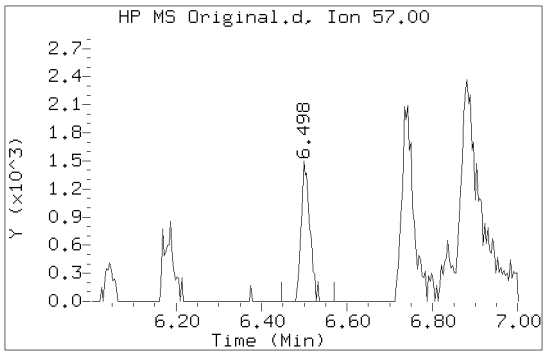

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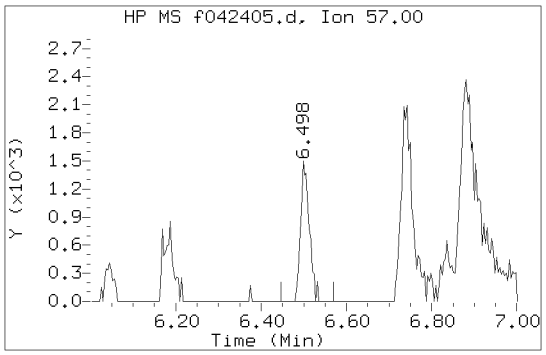

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InstruID : voa10.i
LabSampID : VSTD005

Epichlorohydrin (106-89-8)

Reason Code:

BEFORE

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13:49
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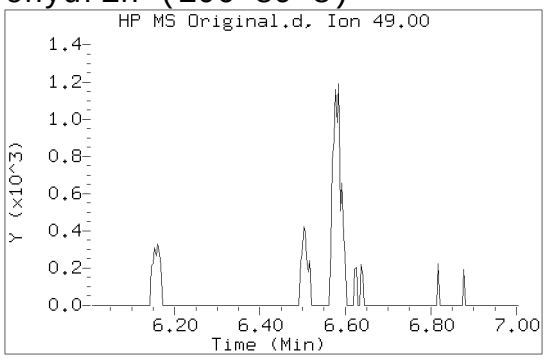

AFTER

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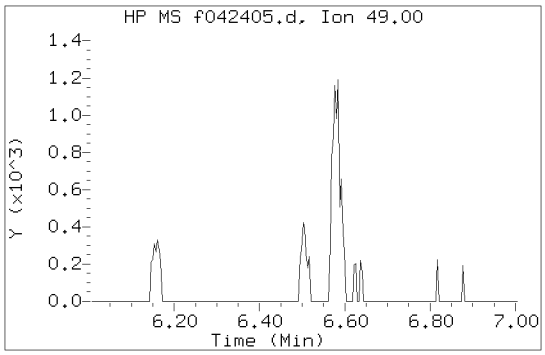

Acetaldehyde (75-07-0)

Reason Code:

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13:49
firat
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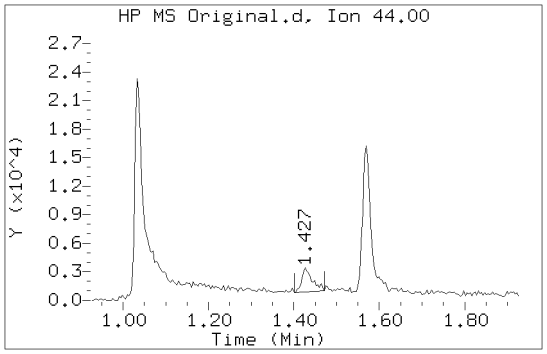

AFTER

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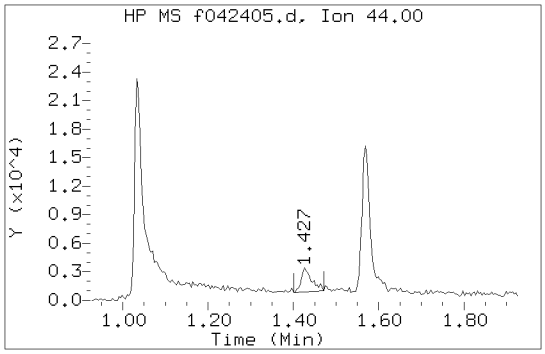

BEFORE

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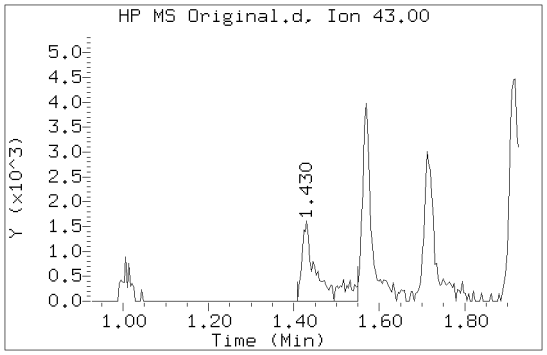

AFTER

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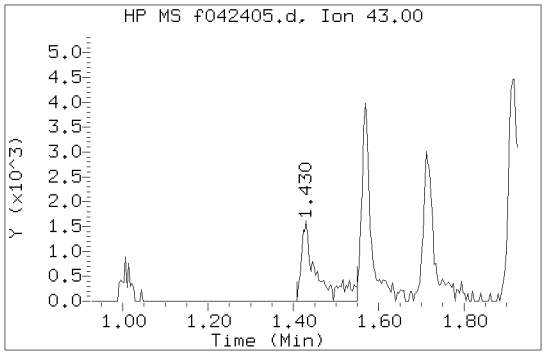

BEFORE

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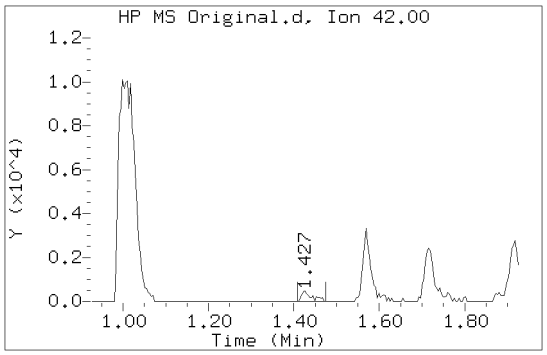

AFTER

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HEIGHT
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24-Apr-2024
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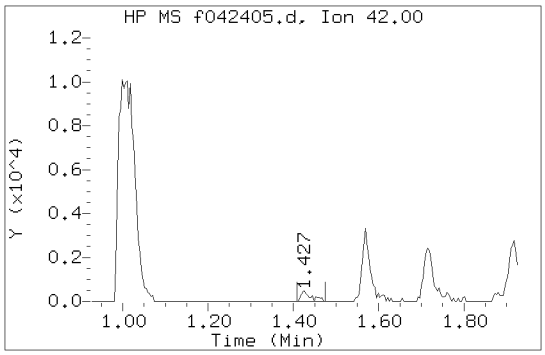

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042406.D Page 1
Report Date: 21-May-2024 11:20

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042406.D
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Inj Date : 24-APR-2024 11:18
Operator : TS Inst ID: voa10.i
Smp Info : VSTD020;VSTD020;1;6
Misc Info : V10;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa10.i\F240424.b\8260W.m
Meth Date : 21-May-2024 11:20 rucha.pate Quant Type: ISTD
Cal Date : 24-APR-2024 11:18 Cal File: F042406.D
Als bottle: 6 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_8260.sub
Target Version: 4.14

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	4.695	4.695	(1.000)	182066	50.0000	
2	Dichlorodifluoromethane	85	1.149	1.149	(0.245)	20770	20.0000	19.05
3	Chloromethane	50	1.291	1.295	(0.275)	31292	20.0000	20.00
4	Propionitrile	54	4.151	4.151	(0.884)	45001	200.000	211.40(a)
5	Vinyl Chloride	62	1.351	1.351	(0.288)	28410	20.0000	19.39
6	Bromomethane	94	1.580	1.572	(0.337)	10803	20.0000	17.62
7	Chloroethane	64	1.662	1.655	(0.354)	18535	20.0000	20.02
8	Trichlorofluoromethane	101	1.850	1.850	(0.394)	35801	20.0000	19.37
9	Acrolein	56	3.169	3.169	(0.675)	16911	40.0000	37.94
10	Acetone	43	2.314	2.314	(0.493)	21428	40.0000	43.88
11	1,1-Dichloroethene	96	2.266	2.266	(0.483)	24698	20.0000	19.80
12	Isobutyl Alcohol	43	5.160	5.160	(1.099)	92113	400.000	418.63
13	Acetonitrile	39	2.584	2.584	(0.550)	40009	200.000	184.67(M)
14	Allyl Chloride	41	2.584	2.584	(0.550)	78066	20.0000	20.32(M)
15	Iodomethane	142	2.393	2.386	(0.510)	36686	40.0000	35.26
16	Acrylonitrile	53	2.933	2.933	(0.625)	22300	40.0000	39.91
17	Methylene Chloride	84	2.700	2.697	(0.575)	28612	20.0000	19.69
18	Methyl tert-butyl ether	73	2.978	2.978	(0.634)	80611	20.0000	20.32
19	Carbon Disulfide	76	2.449	2.449	(0.522)	154171	40.0000	41.45
20	trans-1,2-Dichloroethene	96	2.963	2.963	(0.631)	27062	20.0000	21.42
21	Vinyl Acetate	43	4.192	4.193	(0.893)	30716	40.0000	37.98(M)

22 1,1-Dichloroethane	63	3.394	3.394 (0.723)	50369	20.0000	20.94
23 Chloroprene	53	3.499	3.495 (0.745)	41042	20.0000	19.62

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042406.D Page 2
Report Date: 21-May-2024 11:20

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.099	4.095	(0.873)	25160	40.0000	38.14
	25	Methacrylonitrile	41	4.335	4.331	(0.923)	24786	20.0000	19.54
	26	2,2-Dichloropropane	77	4.057	4.054	(0.864)	36602	20.0000	19.24
	27	cis-1,2-Dichloroethene	96	4.057	4.058	(0.864)	30133	20.0000	20.62
	28	Chloroform	83	4.432	4.432	(0.944)	48735	20.0000	20.61
	29	Bromochloromethane	128	4.324	4.328	(0.921)	15343	20.0000	20.63
$	30	Dibromofluoromethane	113	4.609	4.609	(0.982)	26689	20.0000	19.61
	31	1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	40402	20.0000	19.66
	32	1,1-Dichloropropene	75	4.807	4.807	(0.884)	37768	20.0000	18.39
	33	1,2-Dichloroethane	62	5.040	5.040	(0.927)	37683	20.0000	19.59
	34	Carbon Tetrachloride	117	4.807	4.804	(0.884)	33722	20.0000	19.13
$	35	1,2-Dichloroethane-d4	65	4.961	4.961	(1.057)	30990	20.0000	19.50
*	36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	243505	50.0000	
	37	Benzene	78	5.021	5.021	(0.923)	117147	20.0000	19.95
	38	Trichloroethene	130	5.681	5.677	(1.045)	31763	20.0000	19.16
	39	Bromodichloromethane	83	6.157	6.157	(1.132)	36188	20.0000	20.76
	40	Methyl Methacrylate	41	6.041	6.041	(1.287)	29588	20.0000	19.45
	41	2-Chloroethylvinyl ether	63	6.449	6.442	(1.186)	948	40.0000	41.83(M)
	42	1,2-Dichloropropane	63	5.891	5.433	(1.083)	30970	20.0000	20.44(M)
	43	2-Nitropropane	43	6.374	6.378	(1.358)	7700	20.0000	18.71(M)
	44	Dibromomethane	93	5.999	5.992	(1.103)	17211	20.0000	20.52
	45	4-Methyl-2-Pentanone	43	6.734	6.816	(0.833)	66332	40.0000	14.23
	46	cis-1,3-Dichloropropene	75	6.577	6.577	(1.210)	36489	20.0000	19.19
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	216810	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	106648	20.0000	6.77
	49	Ethyl Methacrylate	69	7.191	6.824	(1.323)	45235	20.0000	20.39
	50	Toluene	91	6.880	6.880	(0.851)	121915	20.0000	7.19
	51	trans-1,3-Dichloropropene	75	7.083	7.083	(1.303)	28862	20.0000	18.24
	52	2-Hexanone	43	7.480	7.480	(0.925)	45167	40.0000	11.25
	53	1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	22766	20.0000	7.49
	54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	45049	20.0000	7.31
	55	Dibromochloromethane	129	7.577	7.578	(0.937)	28237	20.0000	7.04
	56	Tetrachloroethene	164	7.368	7.364	(0.911)	26716	20.0000	7.28
	57	1,2-Dibromoethane	107	7.671	7.671	(0.949)	20219	20.0000	6.92
	58	1-Chlorohexane	55	8.102	8.087	(1.490)	28213	20.0000	20.30
	59	Chlorobenzene	112	8.110	8.106	(1.003)	80601	20.0000	7.27
	60	1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	26156	20.0000	7.02
	61	Ethylbenzene	106	8.211	8.211	(1.016)	40104	20.0000	7.07(M)
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	102094	40.0000	14.27
	63	o-Xylene	106	8.650	8.650	(1.070)	49886	20.0000	7.13(M)
	64	Styrene	104	8.665	8.661	(1.072)	85777	20.0000	7.26
	66	Bromoform	173	8.807	8.811	(1.089)	20792	20.0000	5.62
	67	Isopropylbenzene	105	8.968	8.968	(1.109)	122027	20.0000	7.18
	68	1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	36033	20.0000	20.02
$	69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	37265	20.0000	5.92
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	113294	50.0000	
	71	1,2,3-Trichloropropane	75	9.249	9.092	(0.918)	36452	20.0000	20.12(M)
	72	trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	5604	20.0000	5.46
	73	n-Propylbenzene	91	9.317	9.321	(0.925)	132958	20.0000	20.19
	74	Bromobenzene	156	9.216	9.216	(0.915)	37077	20.0000	19.68
	75	1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	102541	20.0000	20.32
	76	2-Chlorotoluene	91	9.384	9.384	(0.932)	86294	20.0000	20.07

77	4-Chlorotoluene	91	9.478	9.478 (0.941)	96717	20.0000	19.77
78	tert-Butylbenzene	119	9.744	10.055 (0.968)	86832	20.0000	21.20

	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	9.785	9.786	(0.972)	103093	20.0000	20.33
81	sec-Butylbenzene	105	9.932	9.932	(0.986)	113941	20.0000	21.30
82	p-Isopropyltoluene	119	10.055	10.055	(0.999)	105102	20.0000	21.03
83	1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	64538	20.0000	19.68
84	1,4-Dichlorobenzene	146	10.089	10.085	(1.002)	64953	20.0000	18.91
87	n-Butylbenzene	91	10.400	10.400	(1.033)	90611	20.0000	20.95
88	1,2-Dichlorobenzene	146	10.400	10.085	(1.033)	64098	20.0000	19.39
89	1,2-Dibromo-3-Chloropropane	155	11.056	11.053	(1.098)	5366	20.0000	19.80
90	1,2,4-Trichlorobenzene	180	11.753	11.754	(1.167)	49810	20.0000	20.65
91	Hexachlorobutadiene	225	11.903	11.904	(1.182)	23440	20.0000	18.75
92	Naphthalene	128	11.956	11.960	(1.187)	120648	20.0000	19.41
93	1,2,3-Trichlorobenzene	180	12.158	12.158	(1.207)	44542	20.0000	20.19
135	1,4-Dioxane	88	6.041	6.041	(1.287)	8254	400.000	381.71(a)
130	Ethyl Acetate	43	4.192	4.193	(0.893)	32473	20.0000	19.87
136	n-Hexane	57	3.263	3.259	(0.695)	26065	20.0000	18.60
138	Freon TF	101	2.273	2.277	(0.484)	23607	20.0000	19.13
141	Cyclohexane	56	4.687	4.691	(0.998)	38708	20.0000	19.13
142	Tetrahydrofuran	42	4.399	4.395	(0.937)	12939	40.0000	47.22(M)
146	Methyl Acetate	43	2.614	2.614	(0.557)	42073	20.0000	19.03
147	Methylcyclohexane	55	5.861	5.861	(1.078)	47269	20.0000	20.49(M)
149	Isopropyl alcohol	45	2.446	2.449	(0.521)	43398	400.000	421.19(T)
151	4-Methyl-2-pentanol	45	7.105	7.102	(1.307)	202285	400.000	364.58(M)
156	Diisopropyl ether	45	3.510	3.507	(0.748)	99763	20.0000	20.47(T)
158	Dichlorofluoromethane	67	1.808	1.805	(0.385)	43903	20.0000	21.33
166	1,2,3-Trimethylbenzene	105	10.138	10.142	(1.007)	103971	20.0000	20.72
160	2-Methylnaphthalene	142	12.901	12.904	(1.281)	57044	20.0000	16.86
180	1-Methylnaphthalene	142	13.062	13.062	(1.297)	51183	20.0000	17.18
174	tert-Amyl methyl ether	73	5.175	5.171	(1.102)	83836	20.0000	20.27
175	tert-Butyl ethyl ether	59	3.919	3.923	(0.835)	91099	20.0000	21.39
140	1,3-Butadiene	54	1.377	1.377	(0.293)	27383	20.0000	18.79
189	n-Butyl acetate	43	7.607	7.608	(0.941)	51939	20.0000	6.76
86	Benzyl Chloride	91	10.400	10.400	(1.287)	90611	20.0000	7.11
178	Ethylene oxide	44	1.568	1.572	(0.334)	93145	40.0000	41.89
182	Epichlorohydrin	57	6.502	6.502	(1.196)	8983	80.0000	76.46
185	Isoprene	39	2.101	2.097	(0.448)	8144	20.0000	20.73
150	Allyl alcohol	57	3.484	3.492	(0.742)	8803	400.000	322.42
162	Butyl acrylate	55	8.638	8.638	(1.069)	57867	20.0000	5.36
194	Acetaldehyde	44	1.426	1.426	(0.304)	22457	80.0000	106.69
131	Methyl Acrylate	55	4.222	4.219	(0.899)	26105	20.0000	19.08
133	Ethyl Acrylate	55	5.823	5.823	(1.240)	33398	20.0000	19.59
203	2-Ethylhexyl Acrylate	55	11.945	11.945	(1.186)	28474	20.0000	15.80(A)
204	2-Chloropropene	41	1.880	1.876	(0.400)	38997	20.0000	20.69(A)
163	Butyl methacrylate	41	9.557	9.557	(0.949)	42000	20.0000	18.34
167	Ethanol	45	1.996	2.007	(0.425)	7340	400.000	395.18
200	Dimethyl Disulfide	94	6.633	6.633	(0.821)	31578	20.0000	5.04
M 94	1,2-Dichloroethylene (total)	96				57195	40.0000	(a)
M 95	Xylenes (total)	106				151980	60.0000	(a)

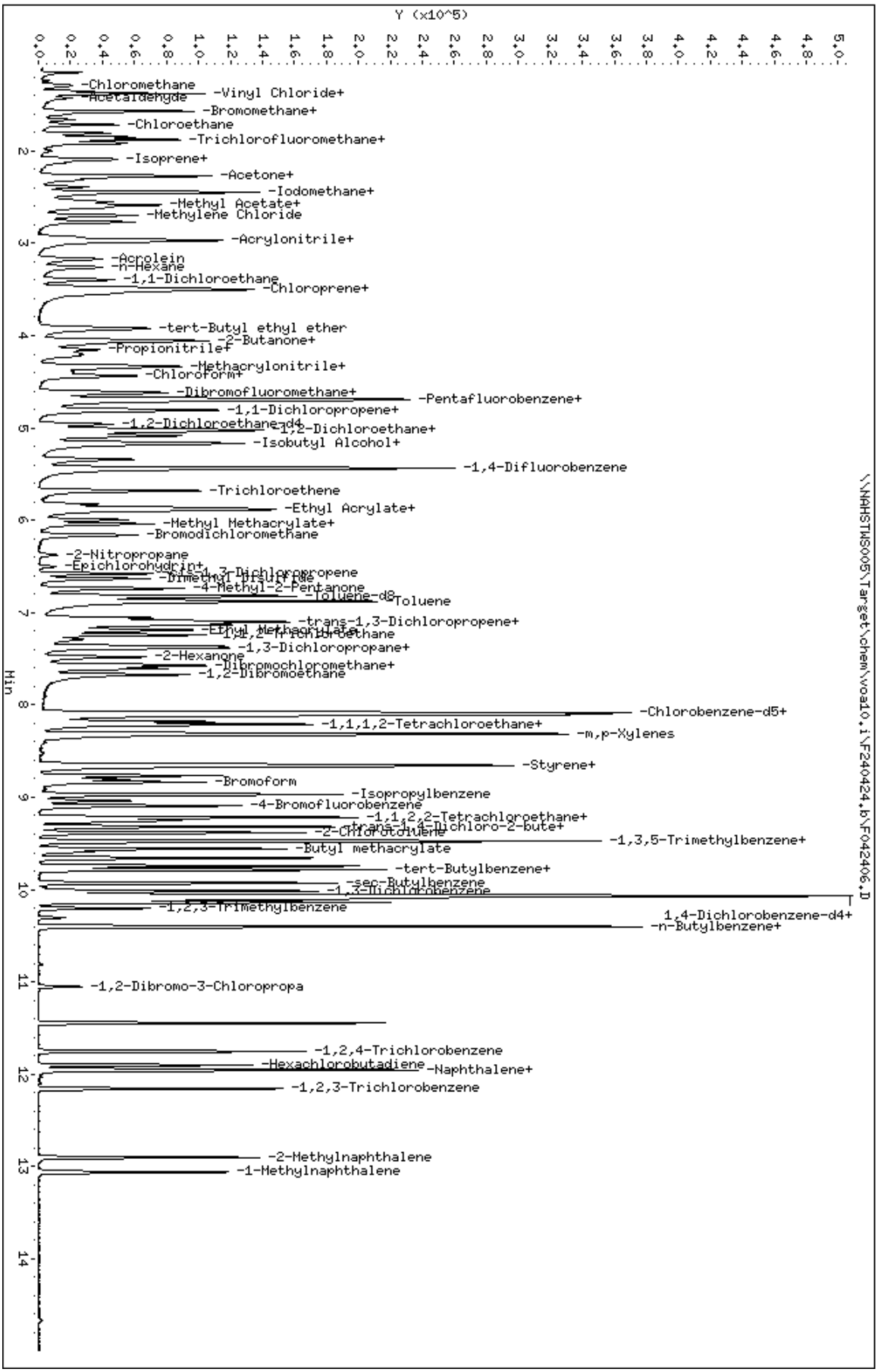
QC Flag Legend

T - Target compound detected outside RT window.

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount
    exceeded maximum amount.

QC Flag Legend

M - Compound response manually integrated.



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Sample Info: VSTD020;VSTD020;1;6
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10,i
Operator: TS
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042406.d
Inj Date : 24-APR-2024 11:18
InstruID : voa10.i
LabSampID : VSTD020

o-Xylene (95-47-6)

Reason Code:

BEFORE

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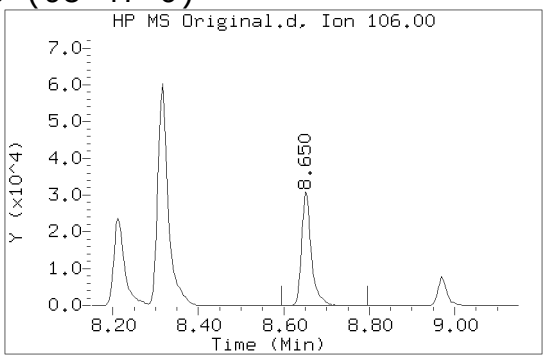
HEIGHT
30848
24-Apr-2024
13:49
firat
tastan



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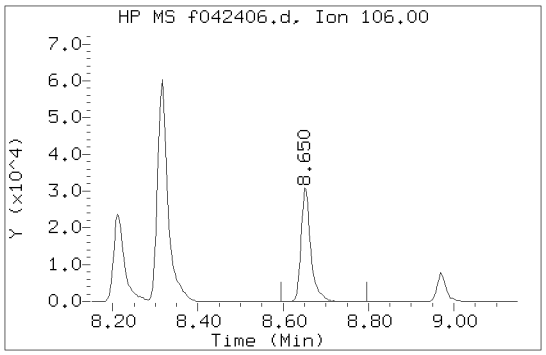

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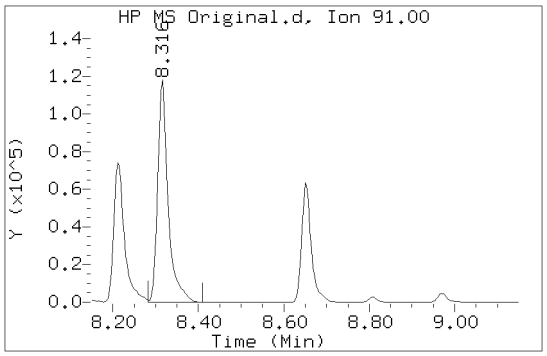

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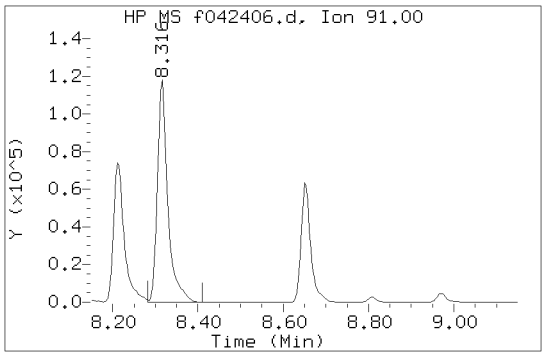

1,2-Dichloropropane (78-87-5)

Reason Code:

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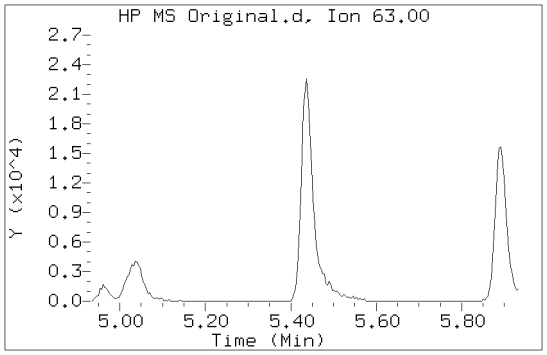

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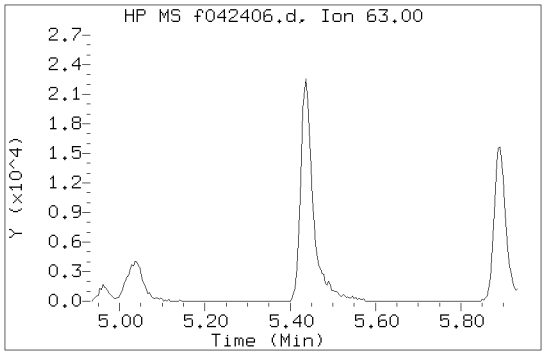

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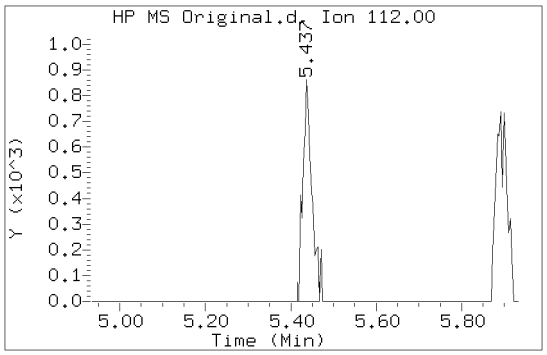

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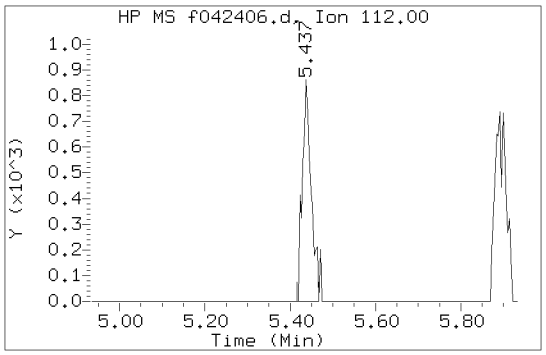

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InstruID : voa10.i
LabSampID : VSTD020

Ethylbenzene (100-41-4)

Reason Code:

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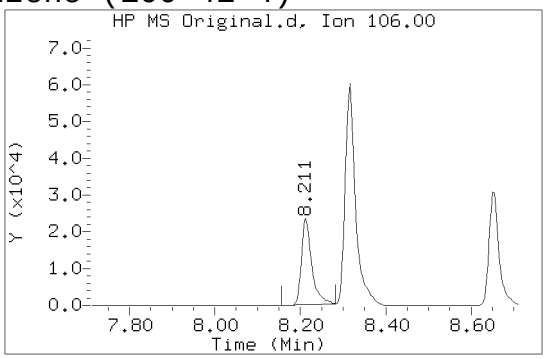

AFTER

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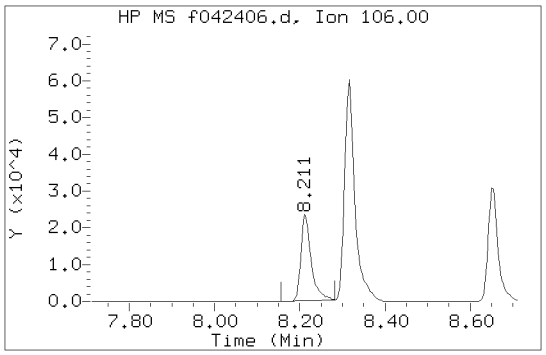

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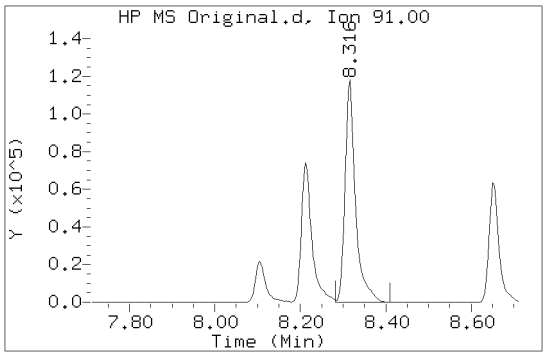

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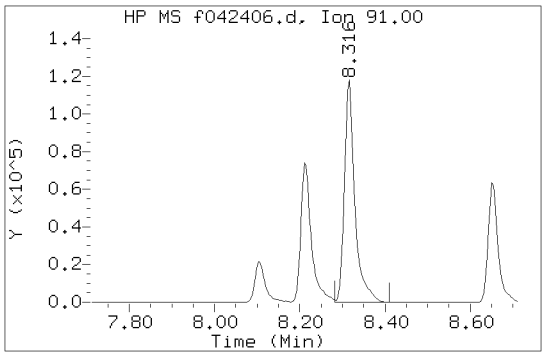

Vinyl Acetate (108-05-4)

Reason Code:

BEFORE

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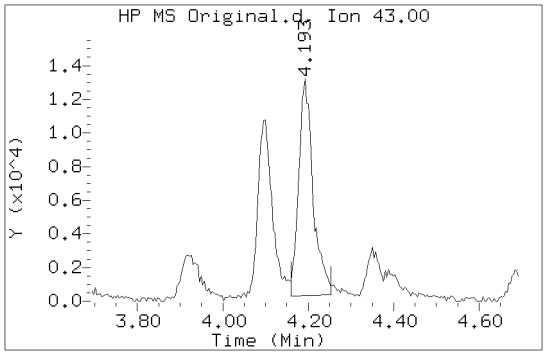

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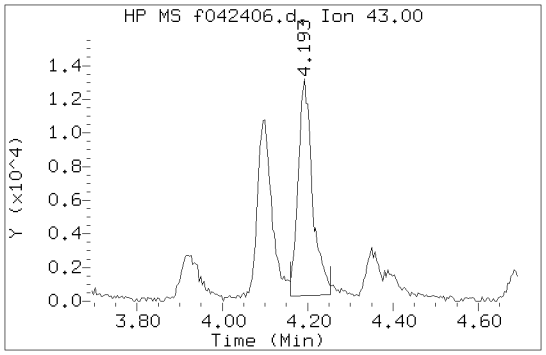

BEFORE

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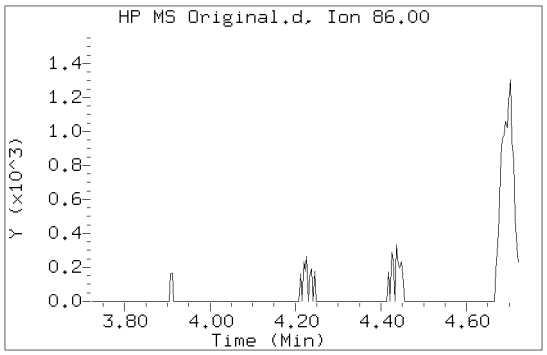

AFTER

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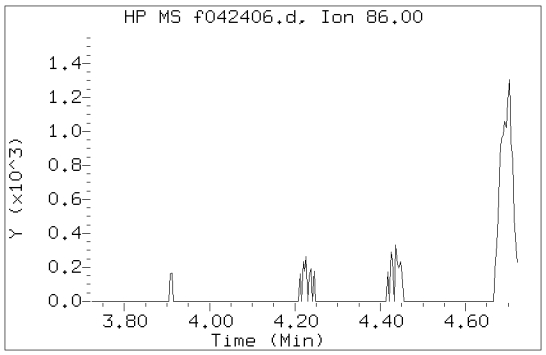

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Inj Date : 24-APR-2024 11:18
InstruID : voa10.i
LabSampID : VSTD020

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

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24-Apr-2024
13:49
firat
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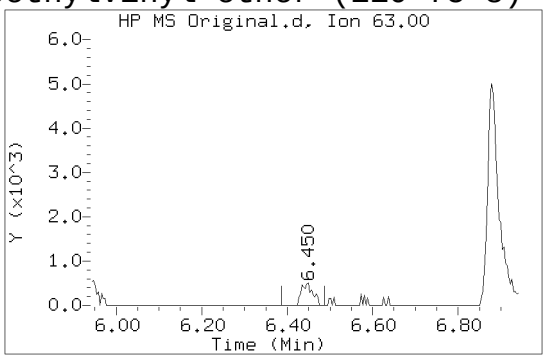

AFTER

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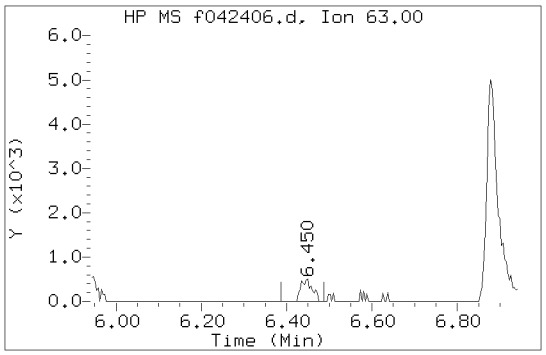

BEFORE

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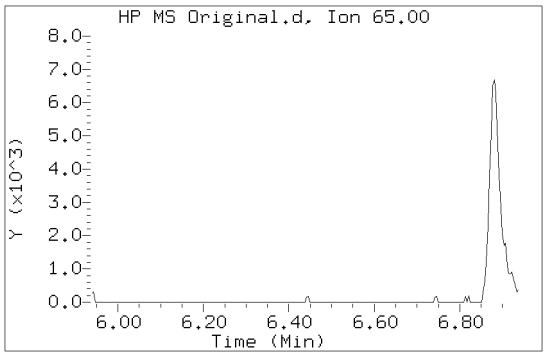

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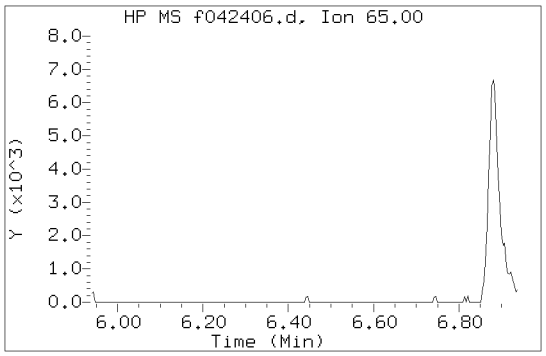

BEFORE

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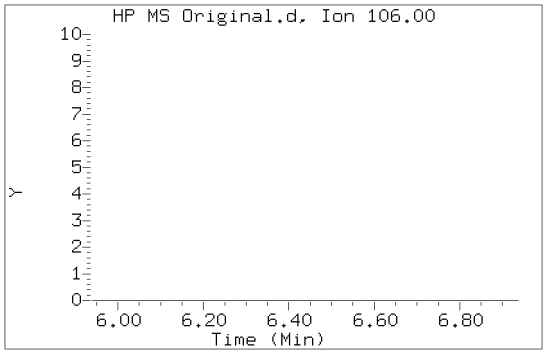

AFTER

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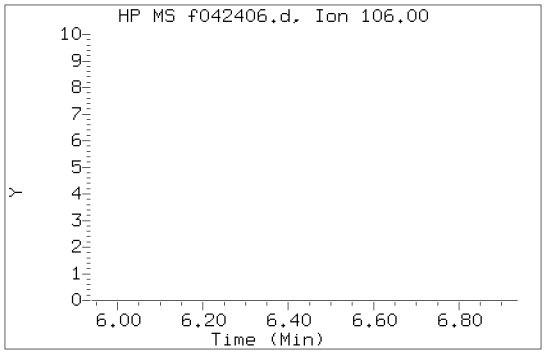

Acetonitrile (75-05-8)

Reason Code:

BEFORE

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24-Apr-2024
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firat
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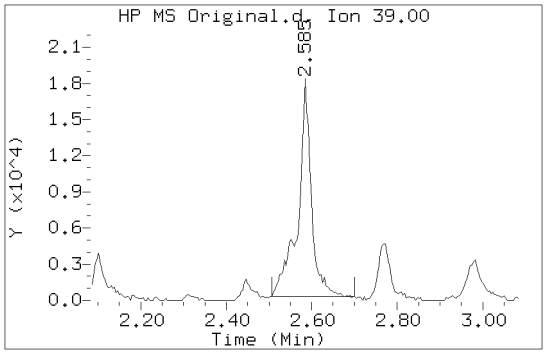

AFTER

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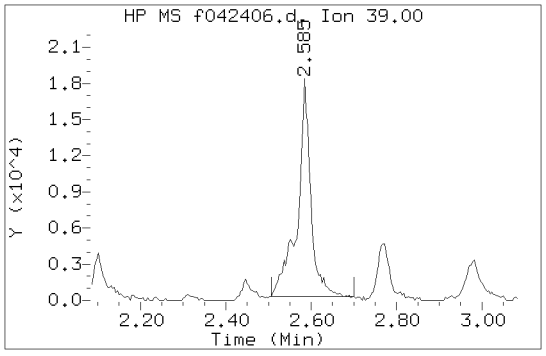

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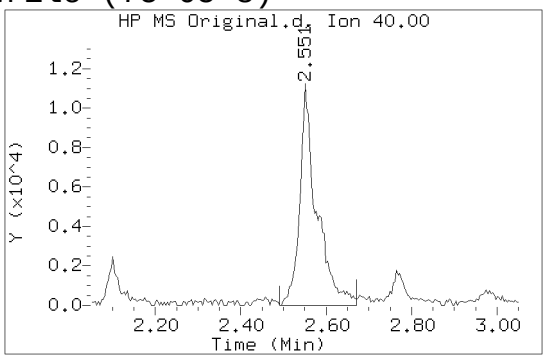
InstruID : voa10.i
LabSampID : VSTD020

Acetonitrile (75-05-8)

Reason Code:

BEFORE

MASS
40
AREA
31256
HEIGHT
11241
24-Apr-2024
13:49
firat
tastan



AFTER

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40
AREA
31256
HEIGHT
11241
24-Apr-2024
13:49
firat
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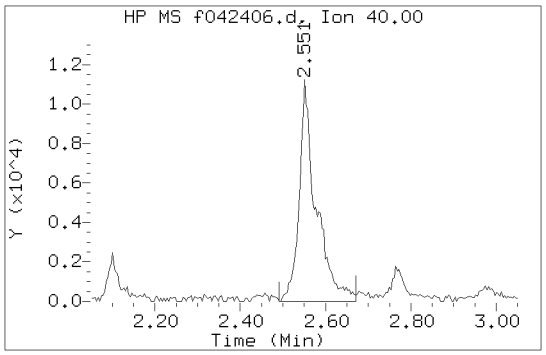

Allyl Chloride (107-05-1)

Reason Code:

BEFORE

MASS
41
AREA
78066
HEIGHT
25520
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firat
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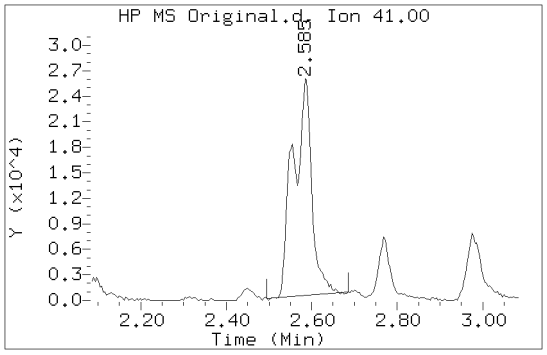

AFTER

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AREA
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HEIGHT
25520
24-Apr-2024
13:49
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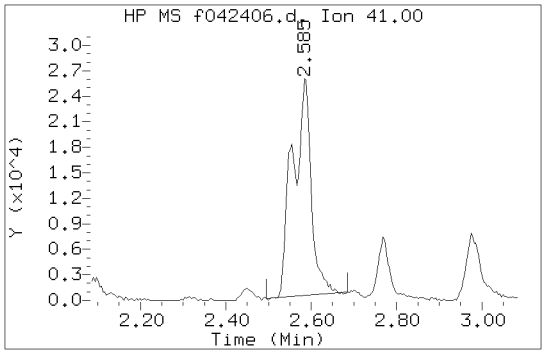
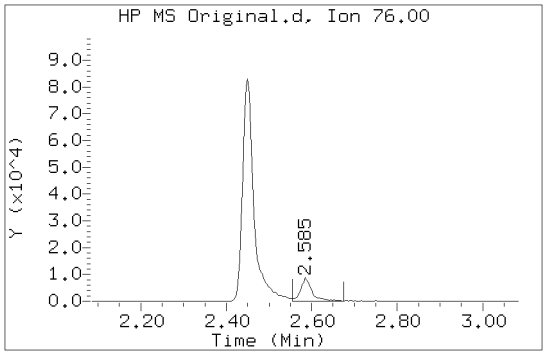


BEFORE

MASS
76
AREA
16496
HEIGHT
8849
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
76
AREA
16496
HEIGHT
8849
24-Apr-2024
13:49
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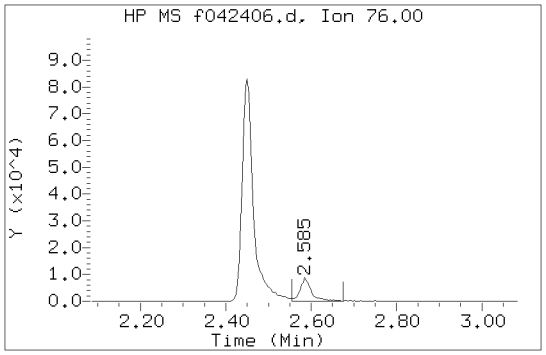
tastan



2-Nitropropane (79-46-9)

Reason Code:

BEFORE

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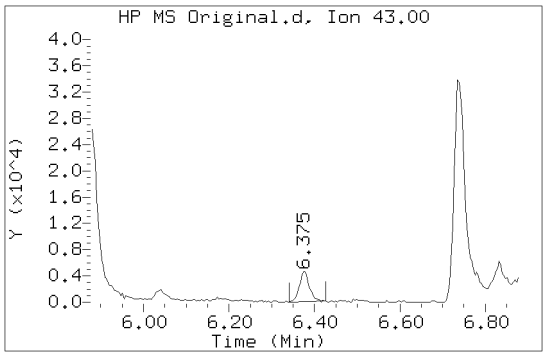
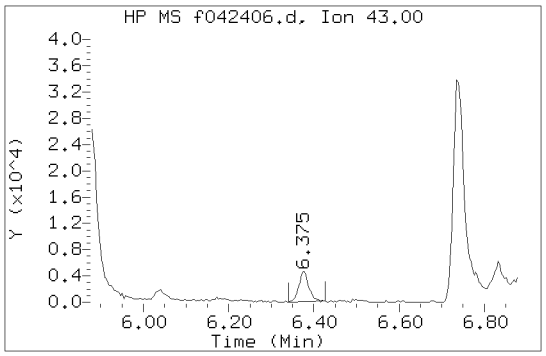
43
AREA
7700
HEIGHT
4652
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
43
AREA
7700
HEIGHT
4652
24-Apr-2024
13:49
firat
tastan



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Inj Date : 24-APR-2024 11:18
InstruID : voa10.i
LabSampID : VSTD020

2-Nitropropane (79-46-9)

Reason Code:

BEFORE

MASS
39
AREA
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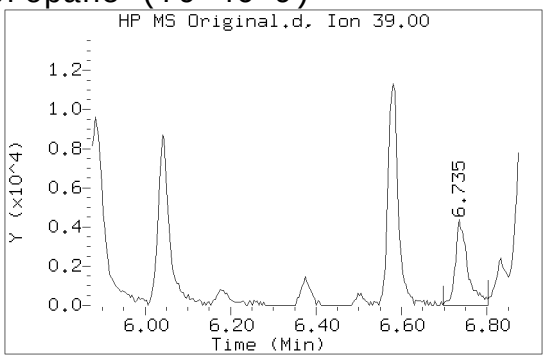
HEIGHT
4377
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
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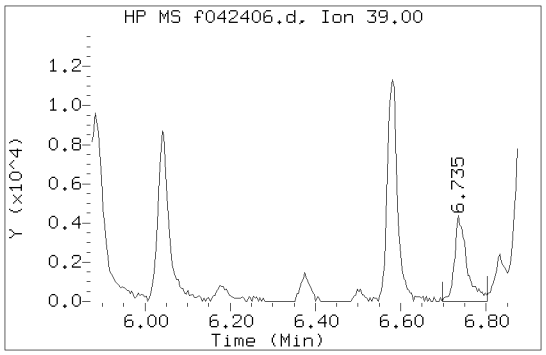
AREA
8813
HEIGHT
4377
24-Apr-2024
13:49
firat
tastan

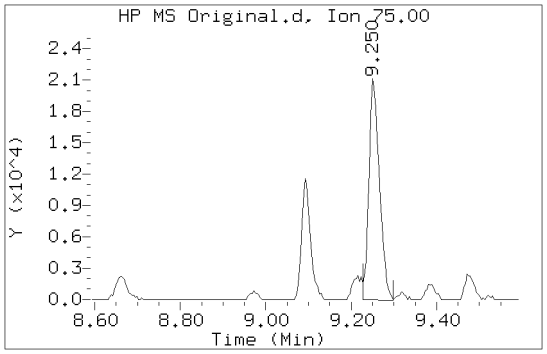


1,2,3-Trichloropropane (96-18-4)

Reason Code:

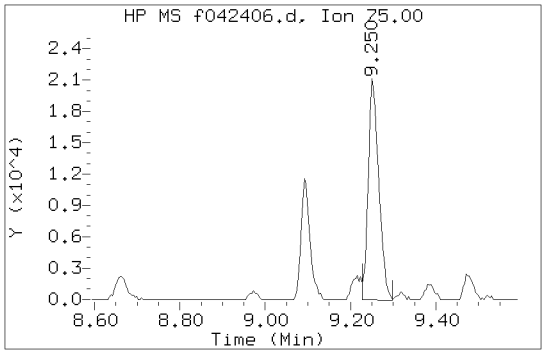
BEFORE

MASS
75
AREA
36452
HEIGHT
21162
24-Apr-2024
13:49
firat
tastan



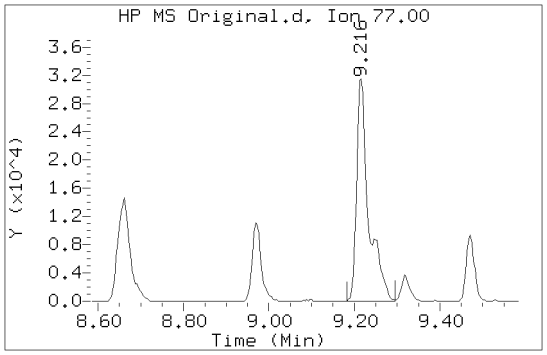
AFTER

MASS
75
AREA
36452
HEIGHT
21162
24-Apr-2024
13:49
firat
tastan



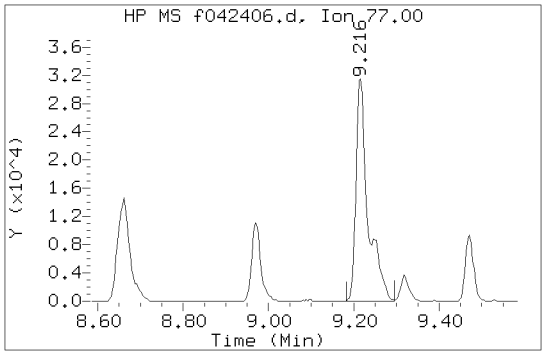
BEFORE

MASS
77
AREA
61539
HEIGHT
31496
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
77
AREA
61539
HEIGHT
31496
24-Apr-2024
13:49
firat
tastan



Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE

MASS
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AREA
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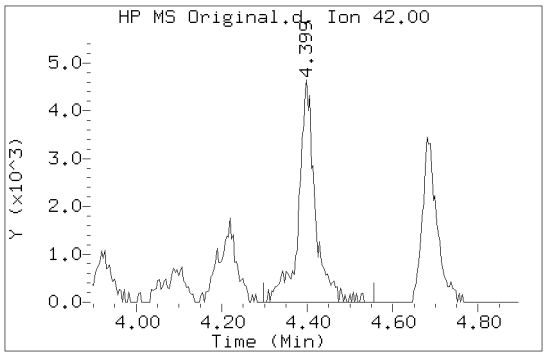
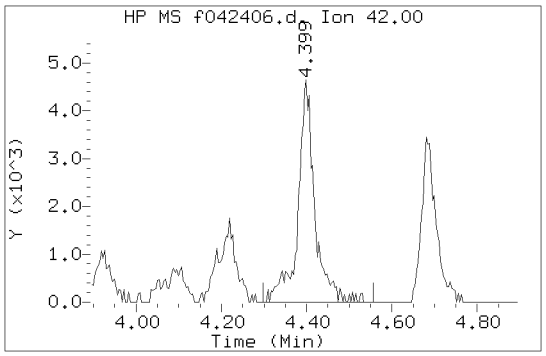
HEIGHT
4645
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
42
AREA
12939
HEIGHT
4645
24-Apr-2024
13:49
firat
tastan



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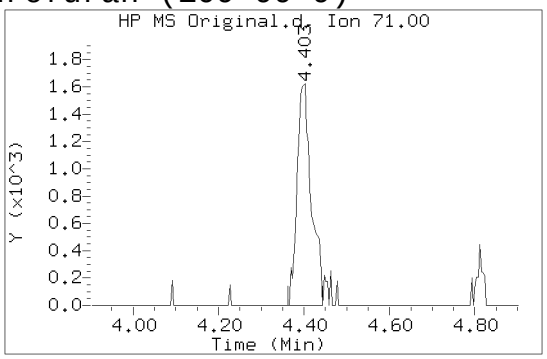
Inj Date : 24-APR-2024 11:18
InstruID : voa10.i
LabSampID : VSTD020

Tetrahydrofuran (109-99-9)

Reason Code:

BEFORE

MASS
71
AREA
3823
HEIGHT
1623
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
1623
24-Apr-2024
13:49
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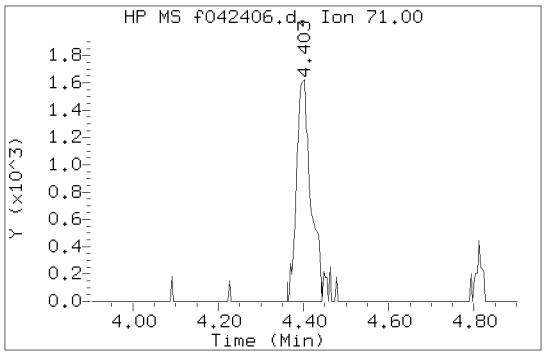
tastan

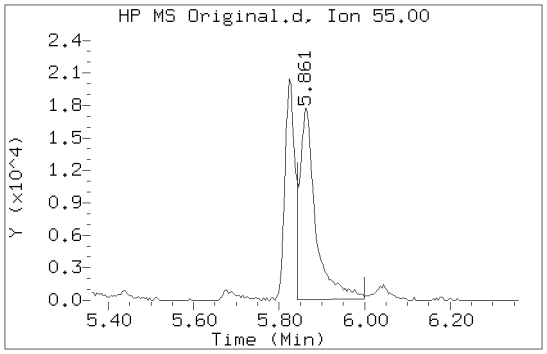


Methylcyclohexane (108-87-2)

Reason Code:

BEFORE

MASS
55
AREA
47269
HEIGHT
17684
24-Apr-2024
13:49
firat
tastan



AFTER

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24-Apr-2024
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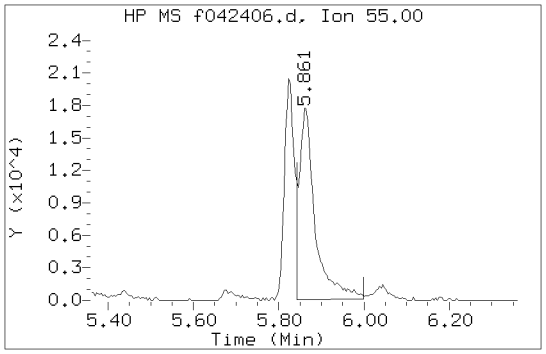

BEFORE

MASS
83
AREA
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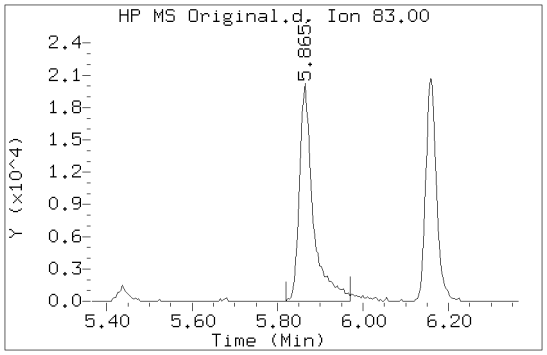
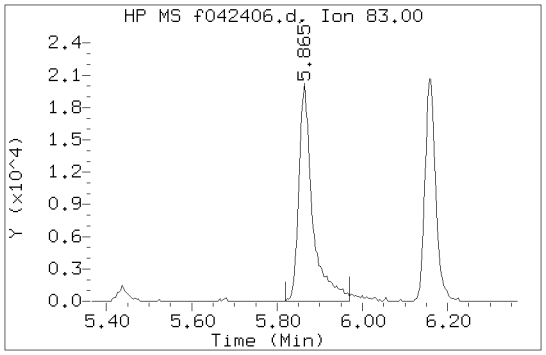
HEIGHT
20256
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
83
AREA
46371
HEIGHT
20256
24-Apr-2024
13:49
firat
tastan



4-Methyl-2-pentanol (108-11-2)

Reason Code:

BEFORE

MASS
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AREA
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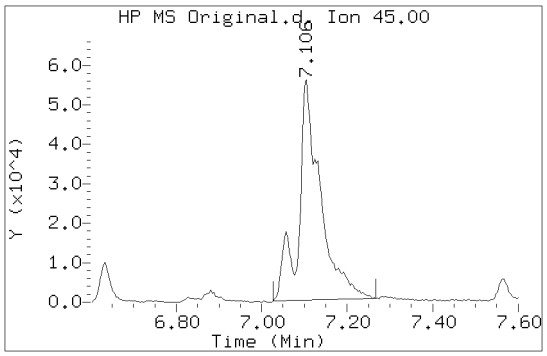
HEIGHT
55774
24-Apr-2024
13:49
firat
tastan



AFTER

MASS
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AREA
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HEIGHT
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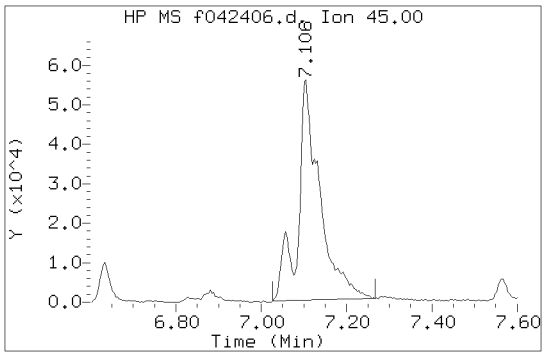
24-Apr-2024
13:49
firat
tastan



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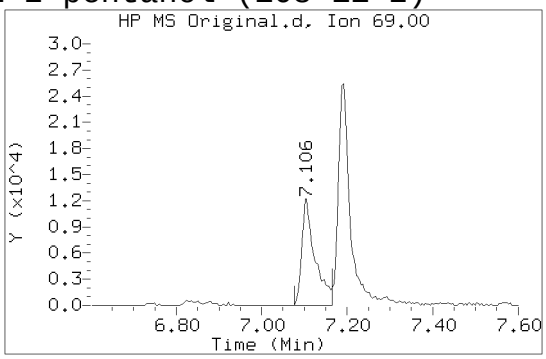
Inj Date : 24-APR-2024 11:18
InstruID : voa10.i
LabSampID : VSTD020

4-Methyl-2-pentanol (108-11-2)

Reason Code:

BEFORE

MASS
69
AREA
26948
HEIGHT
12209
24-Apr-2024
13:49
firat
tastan



AFTER

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24-Apr-2024
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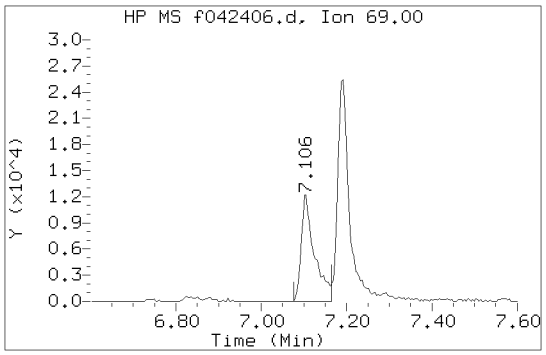


Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042407.D Page 1
Report Date: 21-May-2024 11:20

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042407.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 24-APR-2024 11:39
Operator : TS Inst ID: voa10.i
Smp Info : VSTD050;VSTD050;1;7
Misc Info : V10;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa10.i\F240424.b\8260W.m
Meth Date : 21-May-2024 11:20 rucha.pate Quant Type: ISTD
Cal Date : 24-APR-2024 11:39 Cal File: F042407.D
Als bottle: 7 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_8260.sub
Target Version: 4.14

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	4.695	4.695	(1.000)	186048	50.0000	
2	Dichlorodifluoromethane	85	1.149	1.149	(0.245)	54696	50.0000	47.61
3	Chloromethane	50	1.291	1.295	(0.275)	75079	50.0000	46.96
4	Propionitrile	54	4.151	4.151	(0.884)	114844	500.000	527.96
5	Vinyl Chloride	62	1.351	1.351	(0.288)	72351	50.0000	46.29
6	Bromomethane	94	1.580	1.572	(0.337)	29833	50.0000	42.40
7	Chloroethane	64	1.658	1.655	(0.353)	45316	50.0000	47.80
8	Trichlorofluoromethane	101	1.853	1.850	(0.395)	92323	50.0000	47.83
9	Acrolein	56	3.165	3.169	(0.674)	46583	100.000	91.71
10	Acetone	43	2.311	2.314	(0.492)	49984	100.000	105.88
11	1,1-Dichloroethene	96	2.266	2.266	(0.483)	62081	50.0000	48.22
12	Isobutyl Alcohol	43	5.160	5.160	(1.099)	237087	1000.00	1054.45
13	Acetonitrile	39	2.588	2.584	(0.551)	108654	500.000	490.04(M)
14	Allyl Chloride	41	2.584	2.584	(0.550)	206454	50.0000	52.59(M)
15	Iodomethane	142	2.389	2.386	(0.509)	110423	100.000	90.38
16	Acrylonitrile	53	2.933	2.933	(0.625)	57980	100.000	102.57
17	Methylene Chloride	84	2.701	2.697	(0.575)	71179	50.0000	48.81
18	Methyl tert-butyl ether	73	2.974	2.978	(0.634)	213609	50.0000	52.69
19	Carbon Disulfide	76	2.449	2.449	(0.522)	380633	100.000	100.16
20	trans-1,2-Dichloroethene	96	2.963	2.963	(0.631)	68205	50.0000	52.84
21	Vinyl Acetate	43	4.189	4.193	(0.892)	83047	100.000	100.49(M)

22 1,1-Dichloroethane	63	3.394	3.394 (0.723)	126149	50.0000	51.33
23 Chloroprene	53	3.495	3.495 (0.745)	106204	50.0000	48.63

			QUANT SIG					AMOUNTS	
								CAL-AMT	ON-COL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)
	24	2-Butanone	43	4.095	4.095	(0.872)	68065	100.000	100.98
	25	Methacrylonitrile	41	4.335	4.331	(0.923)	64848	50.0000	50.29
	26	2,2-Dichloropropane	77	4.058	4.054	(0.864)	95724	50.0000	47.63
	27	cis-1,2-Dichloroethene	96	4.061	4.058	(0.865)	76804	50.0000	51.45
	28	Chloroform	83	4.436	4.432	(0.945)	121813	50.0000	50.41
	29	Bromochloromethane	128	4.327	4.328	(0.922)	38781	50.0000	52.90
$	30	Dibromofluoromethane	113	4.609	4.609	(0.982)	67810	50.0000	48.77
	31	1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	104624	50.0000	48.95
	32	1,1-Dichloropropene	75	4.811	4.807	(0.885)	95240	50.0000	46.56
	33	1,2-Dichloroethane	62	5.040	5.040	(0.928)	94700	50.0000	49.42
	34	Carbon Tetrachloride	117	4.804	4.804	(0.884)	84855	50.0000	48.32
$	35	1,2-Dichloroethane-d4	65	4.961	4.961	(1.057)	75642	50.0000	46.58
*	36	1,4-Difluorobenzene	114	5.433	5.437	(1.000)	242584	50.0000	
	37	Benzene	78	5.017	5.021	(0.923)	292425	50.0000	50.00
	38	Trichloroethene	130	5.677	5.677	(1.045)	81317	50.0000	49.25
	39	Bromodichloromethane	83	6.157	6.157	(1.133)	90021	50.0000	51.84
	40	Methyl Methacrylate	41	6.041	6.041	(1.287)	78706	50.0000	50.89
	41	2-Chloroethylvinyl ether	63	6.434	6.442	(1.184)	3129	100.000	96.54(M)
	42	1,2-Dichloropropane	63	5.891	5.433	(1.084)	77139	50.0000	51.10(M)
	43	2-Nitropropane	43	6.378	6.378	(1.358)	20664	50.0000	44.92(M)
	44	Dibromomethane	93	5.996	5.992	(1.103)	41796	50.0000	50.02
	45	4-Methyl-2-Pentanone	43	6.738	6.816	(0.834)	176014	100.000	44.31
	46	cis-1,3-Dichloropropene	75	6.580	6.577	(1.211)	99168	50.0000	52.36
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	209737	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	264168	50.0000	19.86
	49	Ethyl Methacrylate	69	7.191	6.824	(1.324)	122271	50.0000	55.33
	50	Toluene	91	6.880	6.880	(0.851)	310339	50.0000	21.49
	51	trans-1,3-Dichloropropene	75	7.083	7.083	(1.304)	78263	50.0000	45.87
	52	2-Hexanone	43	7.480	7.480	(0.925)	118551	100.000	29.27
	53	1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	55696	50.0000	21.65
	54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	111305	50.0000	21.26
	55	Dibromochloromethane	129	7.581	7.578	(0.938)	75721	50.0000	22.10
	56	Tetrachloroethene	164	7.364	7.364	(0.911)	67338	50.0000	21.61
	57	1,2-Dibromoethane	107	7.671	7.671	(0.949)	49853	50.0000	19.94
	58	1-Chlorohexane	55	8.106	8.087	(1.492)	65459	50.0000	47.67
	59	Chlorobenzene	112	8.110	8.106	(1.003)	199249	50.0000	21.16
	60	1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	67905	50.0000	21.36
	61	Ethylbenzene	106	8.211	8.211	(1.016)	99571	50.0000	20.58(M)
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	259518	100.000	42.58
	63	o-Xylene	106	8.653	8.650	(1.070)	127077	50.0000	21.33(M)
	64	Styrene	104	8.661	8.661	(1.071)	214085	50.0000	21.33
	66	Bromoform	173	8.807	8.811	(1.089)	54682	50.0000	14.18
	67	Isopropylbenzene	105	8.972	8.968	(1.110)	309345	50.0000	21.37
	68	1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	93564	50.0000	51.84
$	69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	92998	50.0000	15.36
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	113645	50.0000	
	71	1,2,3-Trichloropropane	75	9.253	9.092	(0.919)	92907	50.0000	51.12(M)
	72	trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	15603	50.0000	14.32
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	343616	50.0000	52.02
	74	Bromobenzene	156	9.216	9.216	(0.915)	94579	50.0000	50.04
	75	1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	263210	50.0000	51.99
	76	2-Chlorotoluene	91	9.384	9.384	(0.932)	216002	50.0000	50.09

77	4-Chlorotoluene	91	9.474	9.478 (0.941)	241987	50.0000	49.33
78	tert-Butylbenzene	119	9.744	10.055 (0.968)	217291	50.0000	52.90

	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	9.786	9.786	(0.972)	259562	50.0000	51.04	
81	sec-Butylbenzene	105	9.932	9.932	(0.986)	289385	50.0000	53.93	
82	p-Isopropyltoluene	119	10.055	10.055	(0.999)	268779	50.0000	53.62	
83	1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	161510	50.0000	49.12	
84	1,4-Dichlorobenzene	146	10.089	10.085	(1.002)	164570	50.0000	47.76	
87	n-Butylbenzene	91	10.400	10.400	(1.033)	231461	50.0000	53.37	
88	1,2-Dichlorobenzene	146	10.400	10.085	(1.033)	163069	50.0000	49.19	
89	1,2-Dibromo-3-Chloropropane	155	11.049	11.053	(1.097)	13664	50.0000	48.36	
90	1,2,4-Trichlorobenzene	180	11.754	11.754	(1.167)	129286	50.0000	53.43	
91	Hexachlorobutadiene	225	11.903	11.904	(1.182)	62585	50.0000	48.86	
92	Naphthalene	128	11.956	11.960	(1.187)	308730	50.0000	50.73	
93	1,2,3-Trichlorobenzene	180	12.158	12.158	(1.207)	116192	50.0000	52.52	
135	1,4-Dioxane	88	6.037	6.041	(1.286)	21959	1000.00	963.81	
130	Ethyl Acetate	43	4.189	4.193	(0.892)	83966	50.0000	50.28	
136	n-Hexane	57	3.259	3.259	(0.694)	72022	50.0000	46.85	
138	Freon TF	101	2.277	2.277	(0.485)	62646	50.0000	48.04	
141	Cyclohexane	56	4.684	4.691	(0.998)	100001	50.0000	48.74	
142	Tetrahydrofuran	42	4.395	4.395	(0.936)	26089	100.000	93.17	
146	Methyl Acetate	43	2.611	2.614	(0.556)	112271	50.0000	49.70	
147	Methylcyclohexane	55	5.861	5.861	(1.079)	118463	50.0000	51.11(M)	
149	Isopropyl alcohol	45	2.449	2.449	(0.522)	109814	1000.00	1042.97	
151	4-Methyl-2-pentanol	45	7.101	7.102	(1.307)	545997	1000.00	916.62(M)	
156	Diisopropyl ether	45	3.507	3.507	(0.747)	265844	50.0000	53.39	
158	Dichlorofluoromethane	67	1.805	1.805	(0.384)	108947	50.0000	51.82	
166	1,2,3-Trimethylbenzene	105	10.138	10.142	(1.007)	260085	50.0000	51.69	
160	2-Methylnaphthalene	142	12.901	12.904	(1.281)	173036	50.0000	46.45	
180	1-Methylnaphthalene	142	13.058	13.062	(1.297)	154314	50.0000	48.54	
174	tert-Amyl methyl ether	73	5.175	5.171	(1.102)	228677	50.0000	54.12	
175	tert-Butyl ethyl ether	59	3.919	3.923	(0.835)	233406	50.0000	53.65	
140	1,3-Butadiene	54	1.377	1.377	(0.293)	74300	50.0000	47.92	
189	n-Butyl acetate	43	7.608	7.608	(0.941)	137870	50.0000	20.92	
86	Benzyl Chloride	91	10.400	10.400	(1.287)	231461	50.0000	21.31	
178	Ethylene oxide	44	1.568	1.572	(0.334)	250744	100.000	110.35	
182	Epichlorohydrin	57	6.502	6.502	(1.197)	24635	200.000	200.24	
185	Isoprene	39	2.101	2.097	(0.448)	19668	50.0000	47.27	
150	Allyl alcohol	57	3.488	3.492	(0.743)	31853	1000.00	982.71	
162	Butyl acrylate	55	8.638	8.638	(1.069)	164884	50.0000	14.13	
194	Acetaldehyde	44	1.426	1.426	(0.304)	42152	200.000	203.40	
131	Methyl Acrylate	55	4.219	4.219	(0.899)	70279	50.0000	49.88	
133	Ethyl Acrylate	55	5.823	5.823	(1.240)	92243	50.0000	52.95	
203	2-Ethylhexyl Acrylate	55	11.945	11.945	(1.186)	98504	50.0000	47.98(A)	
204	2-Chloropropene	41	1.876	1.876	(0.400)	94749	50.0000	50.42(A)	
163	Butyl methacrylate	41	9.557	9.557	(0.949)	115652	50.0000	48.46	
167	Ethanol	45	2.000	2.007	(0.426)	18703	1000.00	998.09	
200	Dimethyl Disulfide	94	6.633	6.633	(0.821)	101666	50.0000	14.19	
M 94	1,2-Dichloroethylene (total)	96				145009	100.000	(a)	
M 95	Xylenes (total)	106				386595	150.000	(a)	

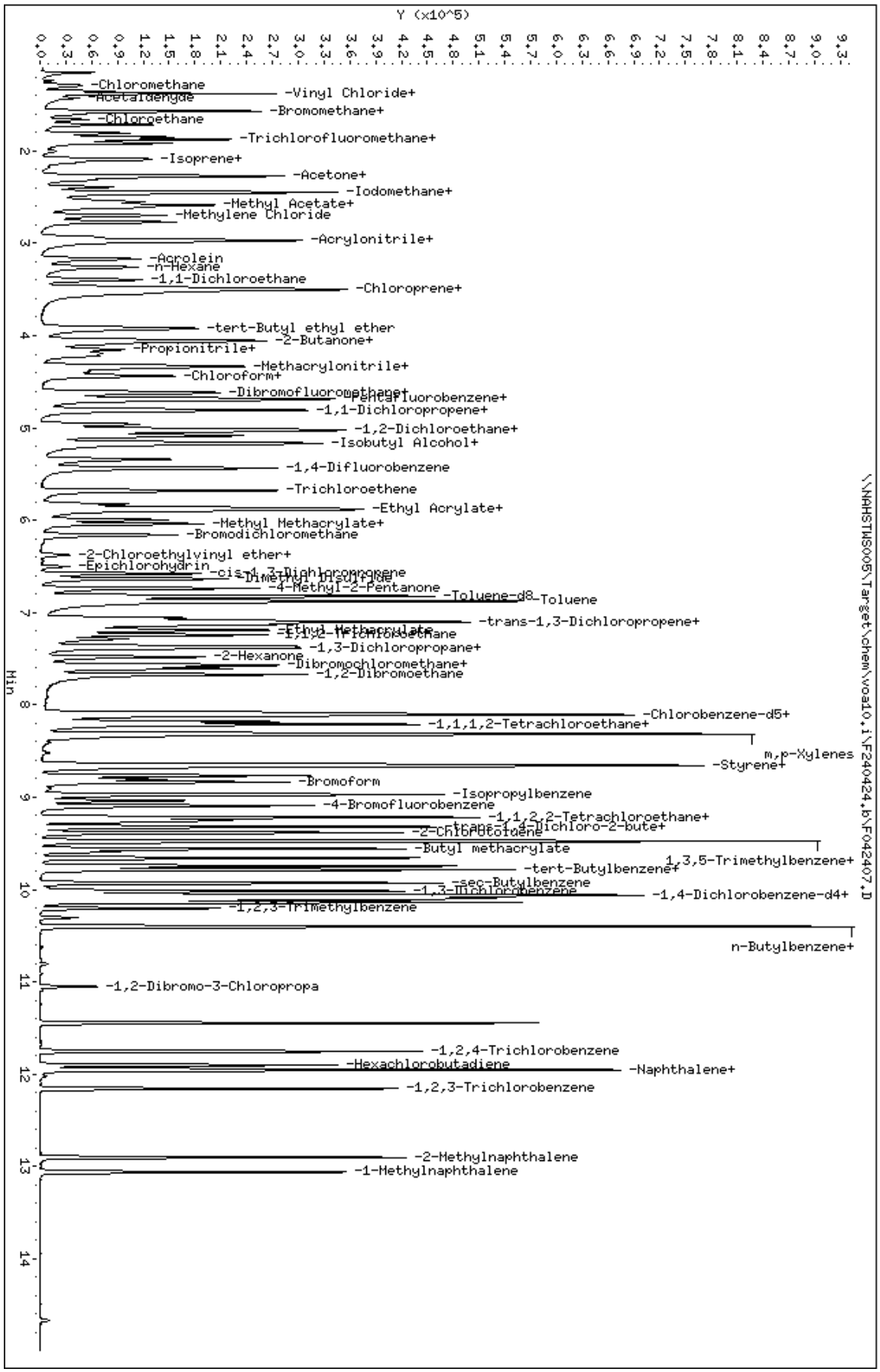
QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

QC Flag Legend

M - Compound response manually integrated.



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Sample Info: VSTD050;VSTD050;1;7
Purge Volume: 5.0
Column phase: DB624

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Instrument: voa10,i
Operator: TS
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042407.d
Inj Date : 24-APR-2024 11:39
InstruID : voa10.i
LabSampID : VSTD050

o-Xylene (95-47-6)

Reason Code:

BEFORE

MASS
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AREA
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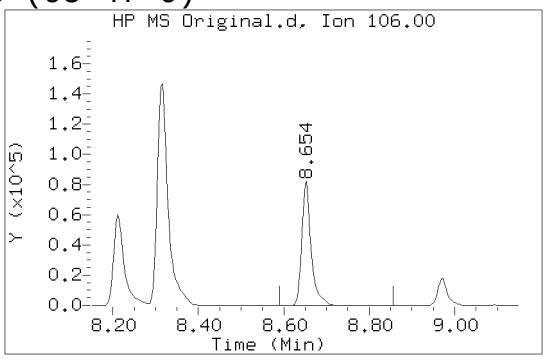
HEIGHT
82376
24-Apr-2024
13:49
firat
tastan



AFTER

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24-Apr-2024
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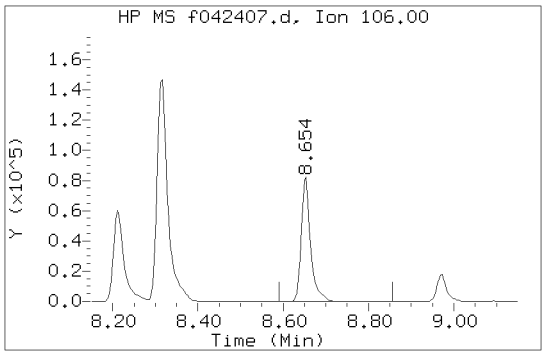

BEFORE

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24-Apr-2024
13:49
firat
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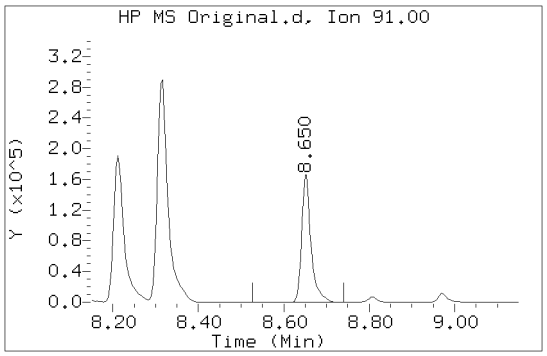

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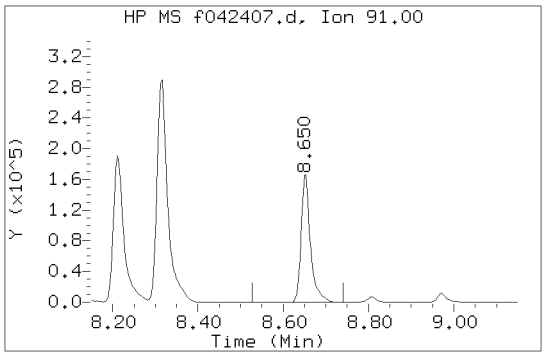

1,2-Dichloropropane (78-87-5)

Reason Code:

BEFORE

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AREA
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24-Apr-2024
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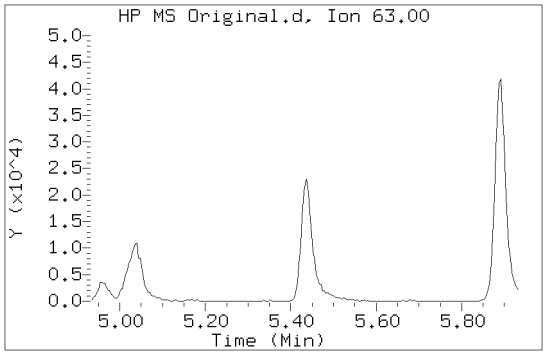

AFTER

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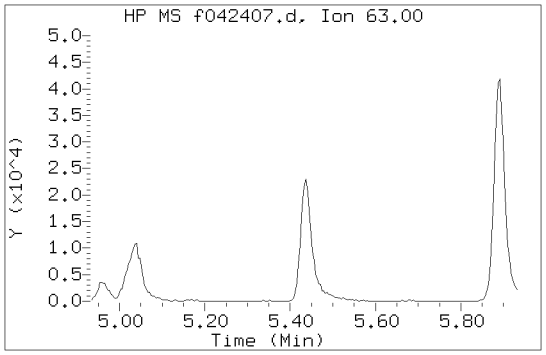

BEFORE

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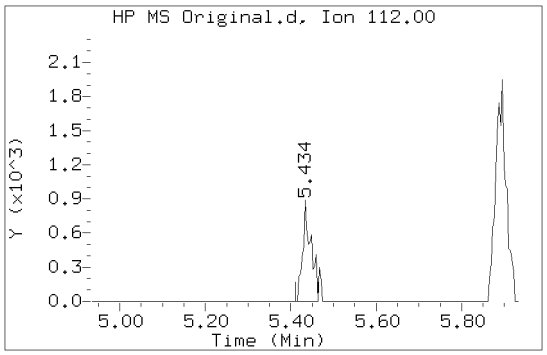

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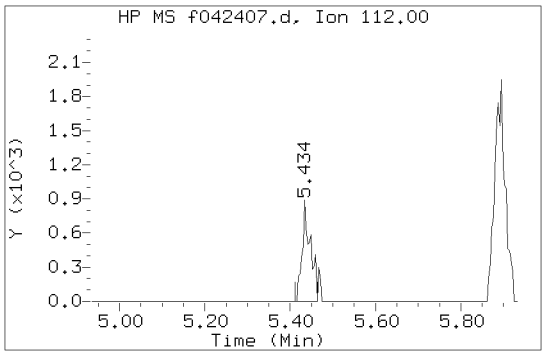

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Inj Date : 24-APR-2024 11:39
InstruID : voa10.i
LabSampID : VSTD050

Ethylbenzene (100-41-4)

Reason Code:

BEFORE

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24-Apr-2024
13:49
firat
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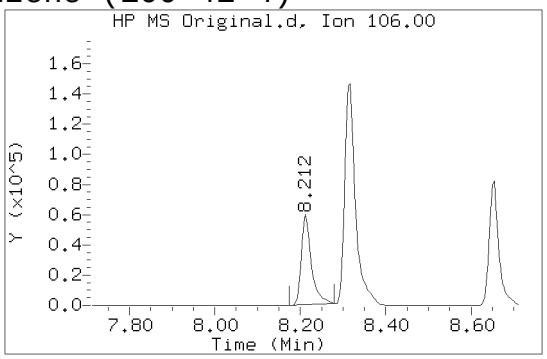

AFTER

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24-Apr-2024
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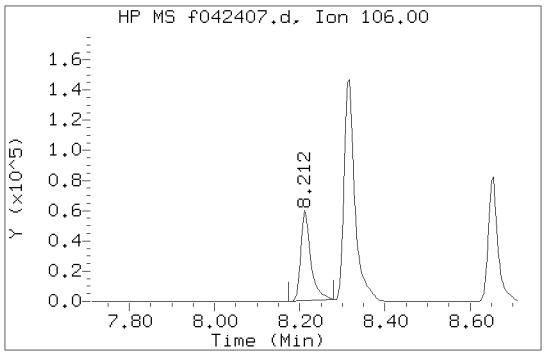

BEFORE

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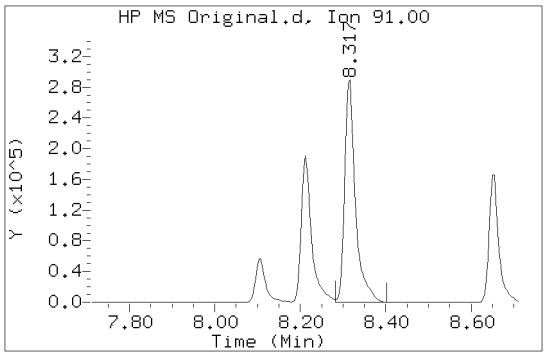

AFTER

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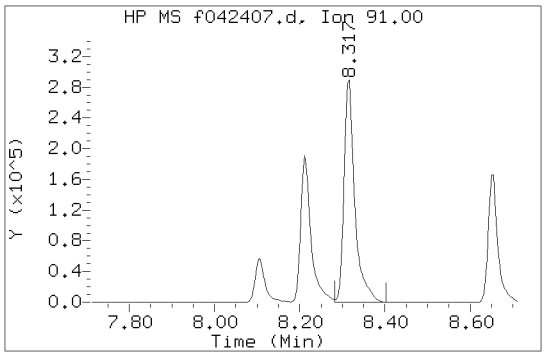

Vinyl Acetate (108-05-4)

Reason Code:

BEFORE

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AREA
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24-Apr-2024
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firat
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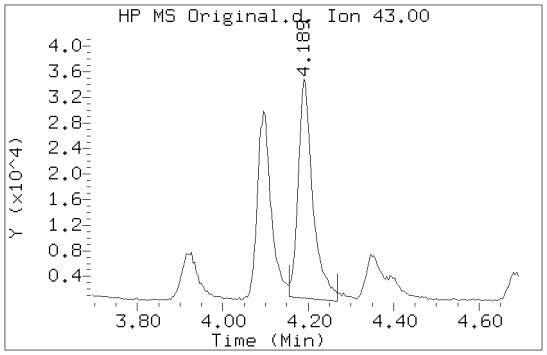

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24-Apr-2024
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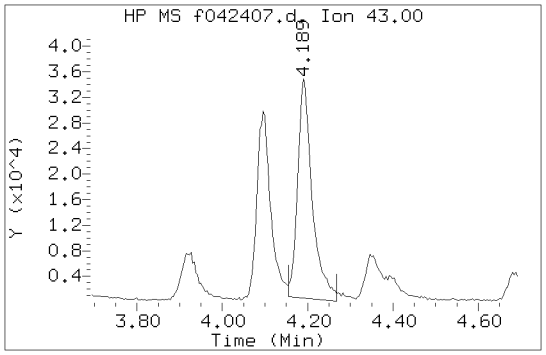

BEFORE

MASS
86
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24-Apr-2024
13:49
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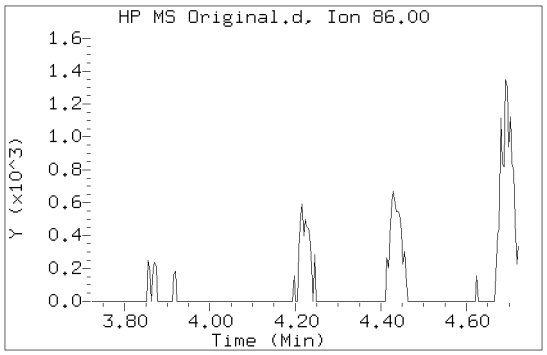

AFTER

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24-Apr-2024
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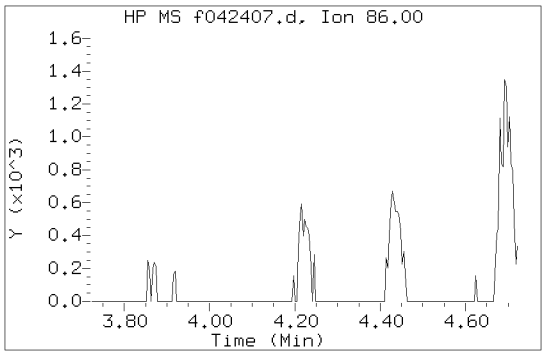

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Inj Date : 24-APR-2024 11:39
InstruID : voa10.i
LabSampID : VSTD050

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

MASS
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HEIGHT
1616
24-Apr-2024
13:49
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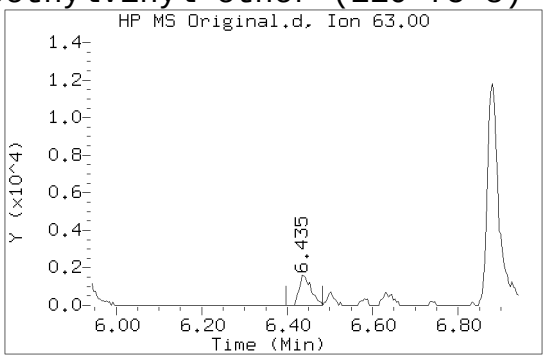

AFTER

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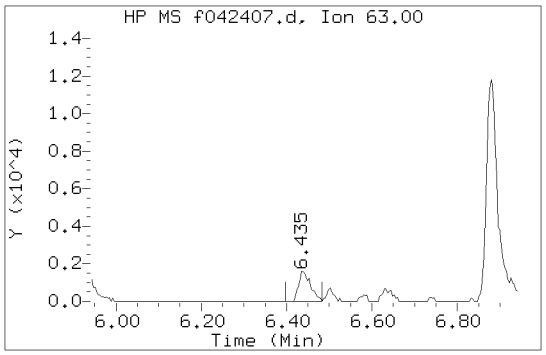

BEFORE

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HEIGHT
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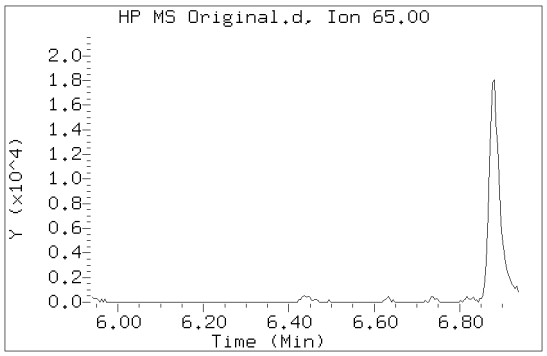

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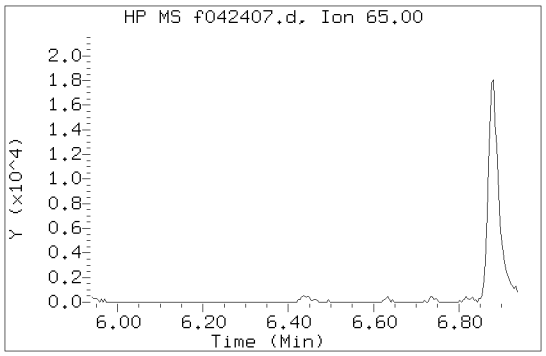

BEFORE

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24-Apr-2024
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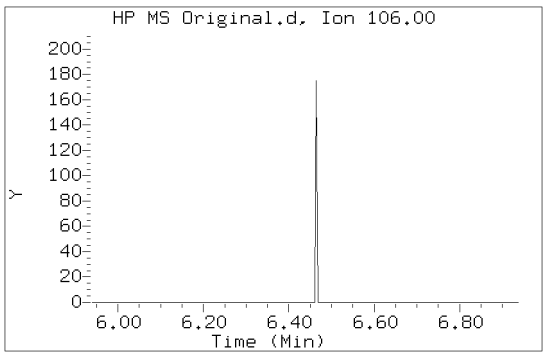

AFTER

MASS
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24-Apr-2024
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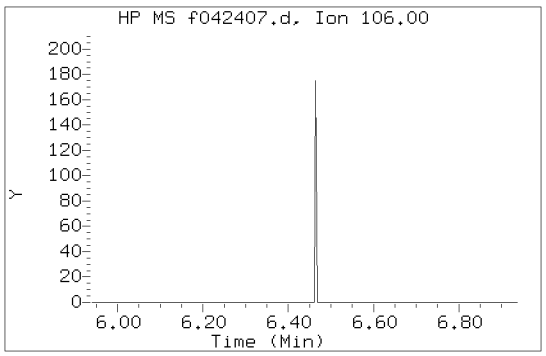

Acetonitrile (75-05-8)

Reason Code:

BEFORE

MASS
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AREA
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HEIGHT
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24-Apr-2024
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firat
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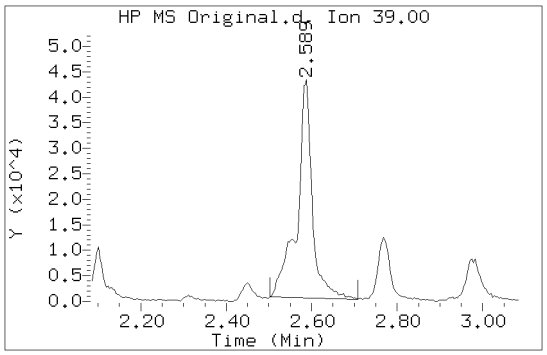

AFTER

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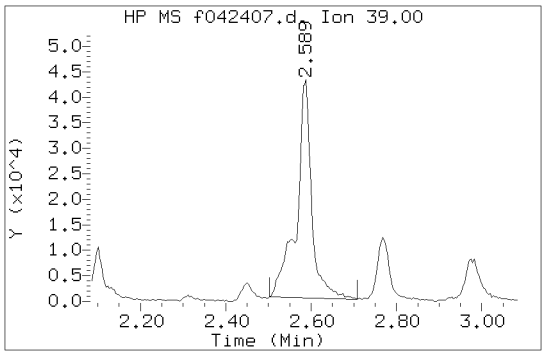

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Inj Date : 24-APR-2024 11:39
InstruID : voa10.i
LabSampID : VSTD050

Acetonitrile (75-05-8)

Reason Code:

BEFORE

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24-Apr-2024
13:49
firat
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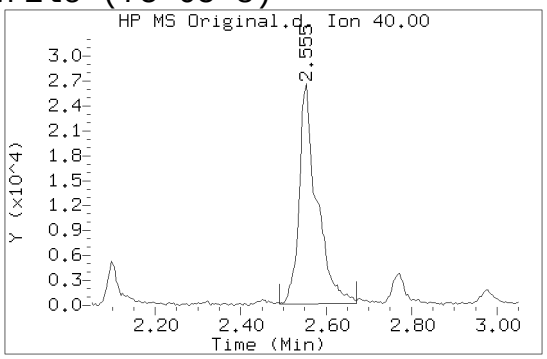

AFTER

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24-Apr-2024
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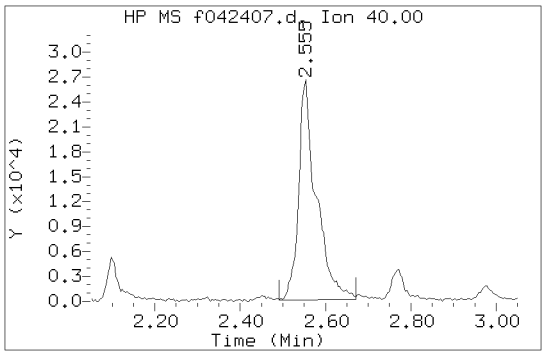

Allyl Chloride (107-05-1)

Reason Code:

BEFORE

MASS
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24-Apr-2024
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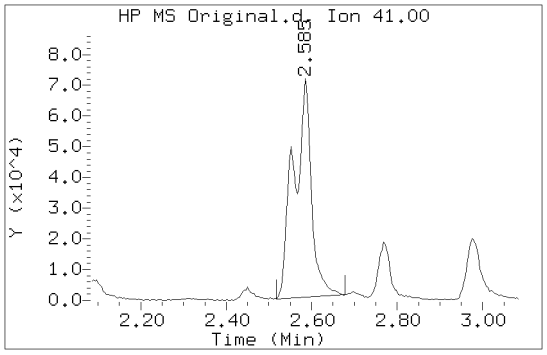

AFTER

MASS
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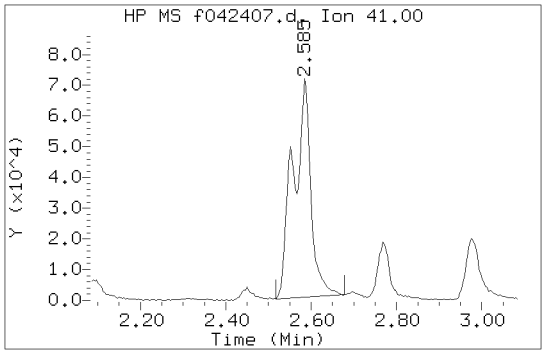

BEFORE

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24-Apr-2024
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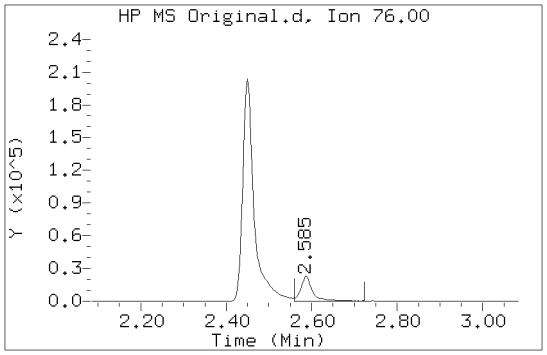

AFTER

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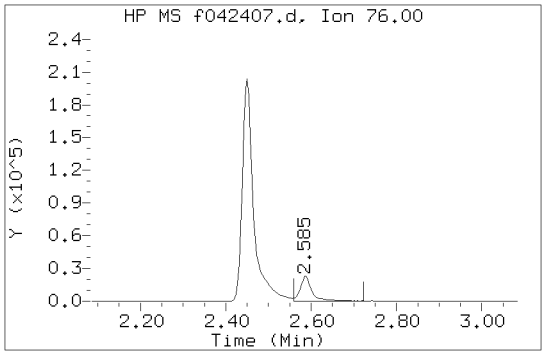

2-Nitropropane (79-46-9)

Reason Code:

BEFORE

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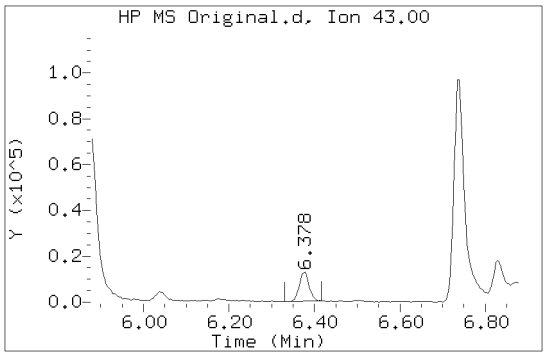

AFTER

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AREA
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24-Apr-2024
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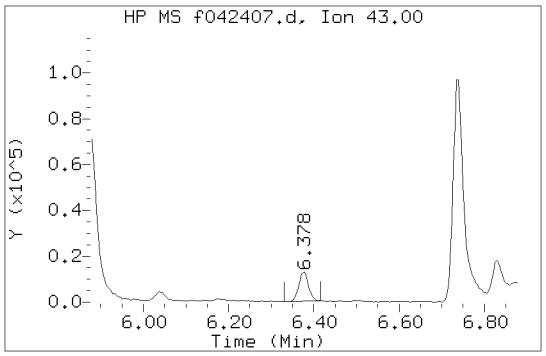

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Inj Date : 24-APR-2024 11:39
InstruID : voa10.i
LabSampID : VSTD050

2-Nitropropane (79-46-9)

Reason Code:

BEFORE

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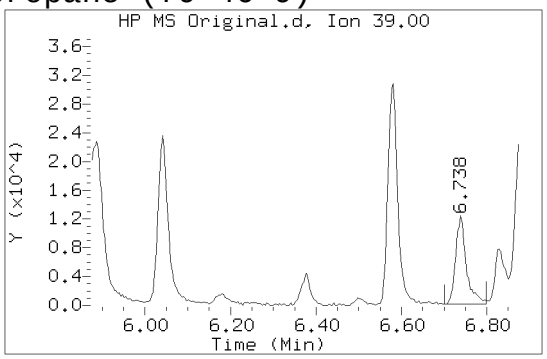

AFTER

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13:49
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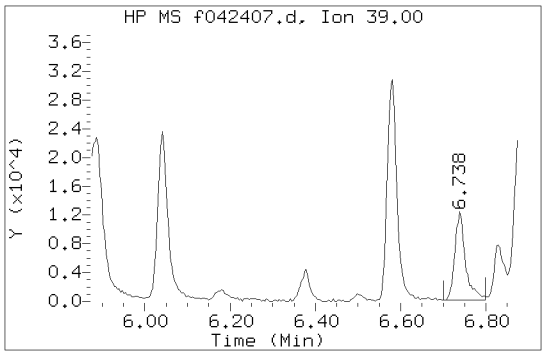

1,2,3-Trichloropropane (96-18-4)

Reason Code:

BEFORE

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AREA
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HEIGHT
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24-Apr-2024
13:49
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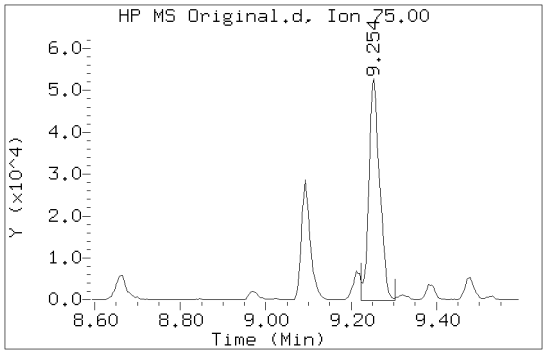

AFTER

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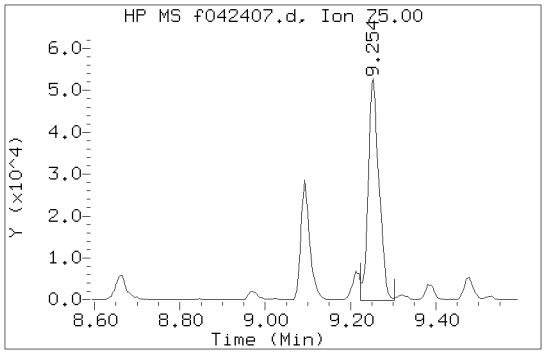

BEFORE

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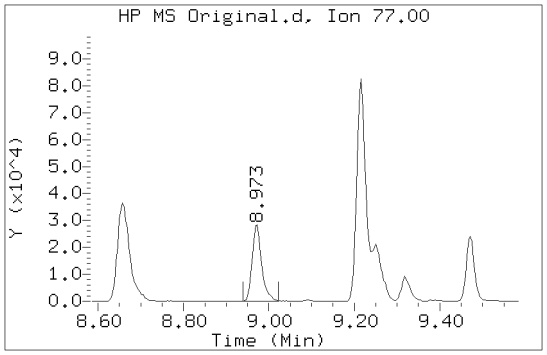

AFTER

MASS
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24-Apr-2024
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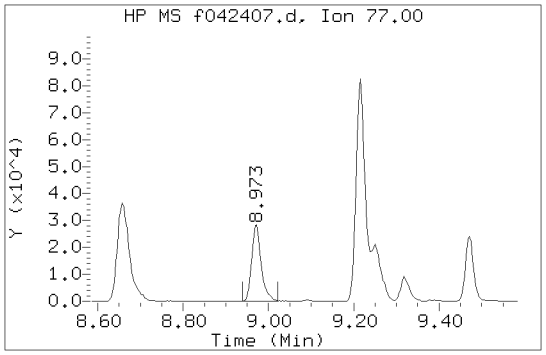

Methylcyclohexane (108-87-2)

Reason Code:

BEFORE

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13:49
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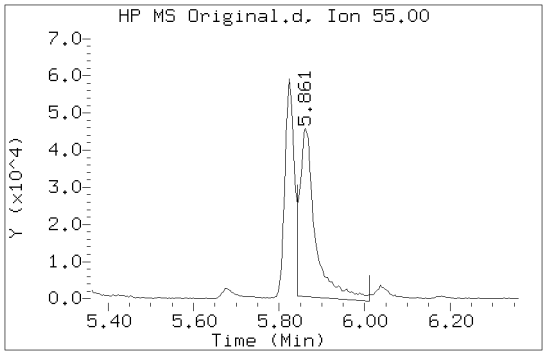

AFTER

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13:49
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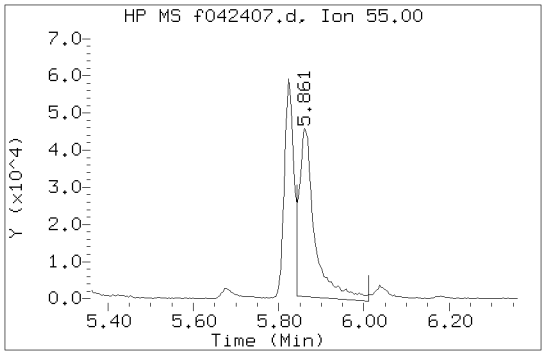

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Inj Date : 24-APR-2024 11:39
InstruID : voa10.i
LabSampID : VSTD050

Methylcyclohexane (108-87-2)

Reason Code:

BEFORE

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13:49
firat
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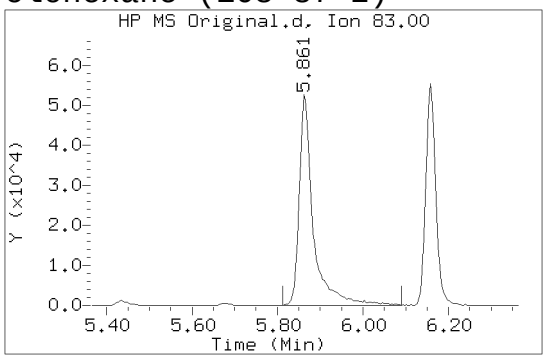

AFTER

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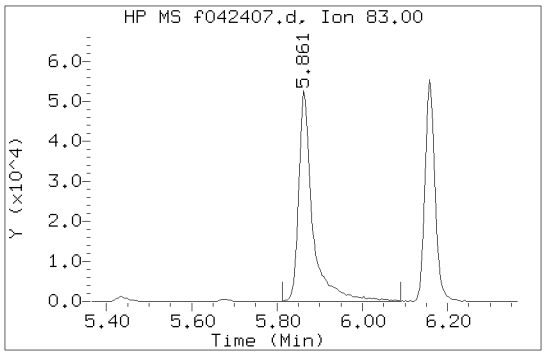

4-Methyl-2-pentanol (108-11-2)

Reason Code:

BEFORE

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AREA
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HEIGHT
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24-Apr-2024
13:49
firat
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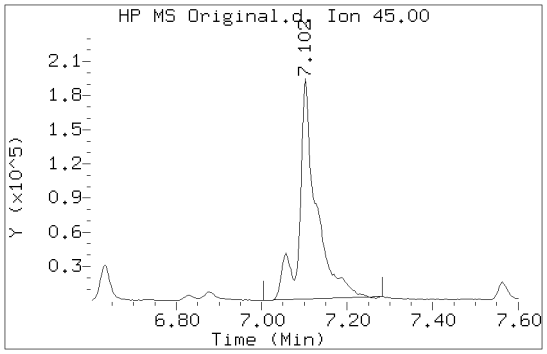

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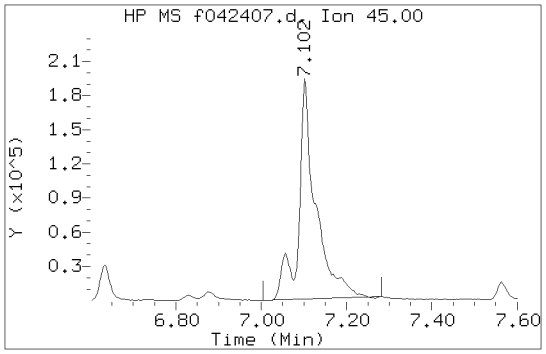

BEFORE

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24-Apr-2024
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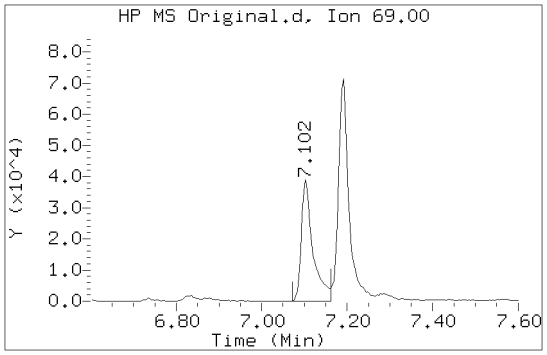

AFTER

MASS
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AREA
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HEIGHT
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24-Apr-2024
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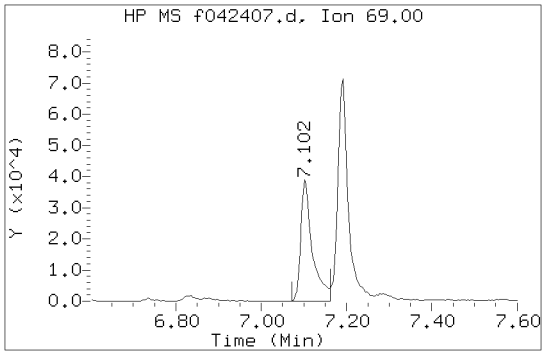

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042408.D
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Inj Date : 24-APR-2024 11:59
Operator : TS Inst ID: voa10.i
Smp Info : VSTD100;VSTD100;1;8
Misc Info : V10;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa10.i\F240424.b\8260W.m
Meth Date : 21-May-2024 11:20 rucha.pate Quant Type: ISTD
Cal Date : 24-APR-2024 11:59 Cal File: F042408.D
Als bottle: 8 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_8260.sub
Target Version: 4.14

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	4.695	4.695	(1.000)	182642	50.0000	
2	Dichlorodifluoromethane	85	1.149	1.149	(0.245)	115207	100.000	101.08
3	Chloromethane	50	1.291	1.295	(0.275)	159992	100.000	101.95
4	Propionitrile	54	4.151	4.151	(0.884)	223584	1000.00	1047.03
5	Vinyl Chloride	62	1.351	1.351	(0.288)	155852	100.000	99.95
6	Bromomethane	94	1.576	1.572	(0.336)	70753	100.000	98.08
7	Chloroethane	64	1.655	1.655	(0.353)	95693	100.000	102.73
8	Trichlorofluoromethane	101	1.850	1.850	(0.394)	194227	100.000	101.70
9	Acrolein	56	3.169	3.169	(0.675)	100002	200.000	193.14
10	Acetone	43	2.314	2.314	(0.493)	91887	200.000	202.15
11	1,1-Dichloroethene	96	2.266	2.266	(0.483)	130816	100.000	103.13
12	Isobutyl Alcohol	43	5.160	5.160	(1.099)	494263	2000.00	2239.24
13	Acetonitrile	39	2.584	2.584	(0.550)	231850	1000.00	1064.64
14	Allyl Chloride	41	2.584	2.584	(0.550)	417723	100.000	108.40(M)
15	Iodomethane	142	2.389	2.386	(0.509)	239651	200.000	191.41
16	Acrylonitrile	53	2.933	2.933	(0.625)	113652	200.000	205.48
17	Methylene Chloride	84	2.697	2.697	(0.574)	144026	100.000	101.26
18	Methyl tert-butyl ether	73	2.978	2.978	(0.634)	430706	100.000	108.23
19	Carbon Disulfide	76	2.449	2.449	(0.522)	808455	200.000	216.71
20	trans-1,2-Dichloroethene	96	2.963	2.963	(0.631)	143271	100.000	113.07
21	Vinyl Acetate	43	4.189	4.193	(0.892)	152240	200.000	187.65(M)

22 1,1-Dichloroethane	63	3.394	3.394 (0.723)	250779	100.000	103.95
23 Chloroprene	53	3.499	3.495 (0.745)	218032	100.000	100.94

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
24	2-Butanone	43	4.091	4.095	(0.871)	132956	200.000	200.93
25	Methacrylonitrile	41	4.335	4.331	(0.923)	129999	100.000	102.88
26	2,2-Dichloropropane	77	4.054	4.054	(0.863)	200705	100.000	100.55
27	cis-1,2-Dichloroethene	96	4.058	4.058	(0.864)	155070	100.000	105.82
28	Chloroform	83	4.436	4.432	(0.945)	246540	100.000	103.94
29	Bromochloromethane	128	4.327	4.328	(0.922)	73951	100.000	103.96
$ 30	Dibromofluoromethane	113	4.609	4.609	(0.982)	131855	100.000	96.61
31	1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	211733	100.000	100.31
32	1,1-Dichloropropene	75	4.811	4.807	(0.885)	194869	100.000	95.35
33	1,2-Dichloroethane	62	5.040	5.040	(0.927)	195003	100.000	101.86
34	Carbon Tetrachloride	117	4.804	4.804	(0.883)	181884	100.000	103.66
$ 35	1,2-Dichloroethane-d4	65	4.961	4.961	(1.057)	152684	100.000	95.77
* 36	1,4-Difluorobenzene	114	5.437	5.437	(1.000)	242386	50.0000	
37	Benzene	78	5.021	5.021	(0.923)	599991	100.000	102.69
38	Trichloroethene	130	5.681	5.677	(1.045)	166088	100.000	100.68
39	Bromodichloromethane	83	6.157	6.157	(1.132)	188757	100.000	108.79
40	Methyl Methacrylate	41	6.041	6.041	(1.287)	155675	100.000	102.69
41	2-Chloroethylvinyl ether	63	6.438	6.442	(1.184)	4954	200.000	195.45(M)
42	1,2-Dichloropropane	63	5.891	5.433	(1.083)	157153	100.000	104.20
43	2-Nitropropane	43	6.374	6.378	(1.358)	47122	100.000	100.92
44	Dibromomethane	93	5.996	5.992	(1.103)	87314	100.000	104.59
45	4-Methyl-2-Pentanone	43	6.738	6.816	(0.834)	356065	200.000	105.75
46	cis-1,3-Dichloropropene	75	6.580	6.577	(1.210)	216711	100.000	114.53
* 47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	208597	50.0000	
$ 48	Toluene-d8	98	6.820	6.820	(0.844)	523962	100.000	46.54
49	Ethyl Methacrylate	69	7.191	6.824	(1.323)	243292	100.000	110.20
50	Toluene	91	6.880	6.880	(0.851)	630430	100.000	51.25
51	trans-1,3-Dichloropropene	75	7.083	7.083	(1.303)	169645	100.000	96.94
52	2-Hexanone	43	7.480	7.480	(0.925)	245936	200.000	60.23
53	1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	113056	100.000	51.64
54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	224505	100.000	50.24
55	Dibromochloromethane	129	7.581	7.578	(0.938)	154607	100.000	53.23
56	Tetrachloroethene	164	7.364	7.364	(0.911)	140146	100.000	52.84
57	1,2-Dibromoethane	107	7.671	7.671	(0.949)	104563	100.000	48.49
58	1-Chlorohexane	55	8.102	8.087	(1.490)	132717	100.000	97.02
59	Chlorobenzene	112	8.110	8.106	(1.003)	405366	100.000	50.39
60	1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	142308	100.000	52.48
61	Ethylbenzene	106	8.211	8.211	(1.016)	212000	100.000	51.09
62	m,p-Xylenes	106	8.316	8.316	(1.029)	532819	200.000	102.44
63	o-Xylene	106	8.650	8.650	(1.070)	256346	100.000	50.44
64	Styrene	104	8.665	8.661	(1.072)	443782	100.000	51.83
66	Bromoform	173	8.807	8.811	(1.089)	117689	100.000	29.62
67	Isopropylbenzene	105	8.972	8.968	(1.110)	632010	100.000	51.21
68	1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	195269	100.000	106.46
$ 69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	184907	100.000	30.55
* 70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	115503	50.0000	
71	1,2,3-Trichloropropane	75	9.249	9.092	(0.918)	189607	100.000	102.66
72	trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	36142	100.000	36.69
73	n-Propylbenzene	91	9.321	9.321	(0.926)	716542	100.000	106.75
74	Bromobenzene	156	9.216	9.216	(0.915)	195215	100.000	101.64
75	1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	545482	100.000	106.02
76	2-Chlorotoluene	91	9.384	9.384	(0.932)	448708	100.000	102.39

77	4-Chlorotoluene	91	9.478	9.478 (0.941)	505405	100.000	101.38
78	tert-Butylbenzene	119	9.744	10.055 (0.968)	439707	100.000	105.33

	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	9.785	9.786	(0.972)	531066	100.000	102.75
81	sec-Butylbenzene	105	9.932	9.932	(0.986)	594644	100.000	109.04
82	p-Isopropyltoluene	119	10.055	10.055	(0.999)	553454	100.000	108.63
83	1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	344714	100.000	103.15
84	1,4-Dichlorobenzene	146	10.089	10.085	(1.002)	347302	100.000	99.18
87	n-Butylbenzene	91	10.400	10.400	(1.033)	476797	100.000	108.17
88	1,2-Dichlorobenzene	146	10.404	10.085	(1.033)	344729	100.000	102.32
89	1,2-Dibromo-3-Chloropropane	155	11.052	11.053	(1.098)	28490	100.000	97.90
90	1,2,4-Trichlorobenzene	180	11.750	11.754	(1.167)	274822	100.000	111.76
91	Hexachlorobutadiene	225	11.903	11.904	(1.182)	132597	100.000	101.17
92	Naphthalene	128	11.956	11.960	(1.187)	640613	100.000	104.38
93	1,2,3-Trichlorobenzene	180	12.158	12.158	(1.207)	251109	100.000	111.68
135	1,4-Dioxane	88	6.037	6.041	(1.286)	45538	2000.00	2015.22(M)
130	Ethyl Acetate	43	4.189	4.193	(0.892)	176858	100.000	107.89
136	n-Hexane	57	3.259	3.259	(0.694)	151367	100.000	97.98
138	Freon TF	101	2.277	2.277	(0.485)	130684	100.000	100.92
141	Cyclohexane	56	4.684	4.691	(0.998)	201138	100.000	100.13
142	Tetrahydrofuran	42	4.395	4.395	(0.936)	59083	200.000	214.95
146	Methyl Acetate	43	2.614	2.614	(0.557)	228807	100.000	103.17
147	Methylcyclohexane	55	5.864	5.861	(1.079)	235319	100.000	101.31(A)
149	Isopropyl alcohol	45	2.449	2.449	(0.522)	228346	2000.00	2209.20
151	4-Methyl-2-pentanol	45	7.101	7.102	(1.306)	1213939	2000.00	1988.63(M)
156	Diisopropyl ether	45	3.503	3.507	(0.746)	520336	100.000	106.46
158	Dichlorofluoromethane	67	1.808	1.805	(0.385)	222752	100.000	107.92
166	1,2,3-Trimethylbenzene	105	10.138	10.142	(1.007)	524419	100.000	102.54
160	2-Methylnaphthalene	142	12.901	12.904	(1.281)	390390	100.000	100.37
180	1-Methylnaphthalene	142	13.058	13.062	(1.297)	332570	100.000	101.21
174	tert-Amyl methyl ether	73	5.171	5.171	(1.101)	470393	100.000	113.40
175	tert-Butyl ethyl ether	59	3.919	3.923	(0.835)	466406	100.000	109.21
140	1,3-Butadiene	54	1.377	1.377	(0.293)	155632	100.000	100.89
189	n-Butyl acetate	43	7.607	7.608	(0.941)	297590	100.000	52.78
86	Benzyl Chloride	91	10.400	10.400	(1.287)	476797	100.000	51.45
178	Ethylene oxide	44	1.565	1.572	(0.333)	498049	200.000	223.28
182	Epichlorohydrin	57	6.502	6.502	(1.196)	48553	400.000	389.29
185	Isoprene	39	2.101	2.097	(0.448)	41004	100.000	98.97
150	Allyl alcohol	57	3.491	3.492	(0.744)	65737	2000.00	1996.94
162	Butyl acrylate	55	8.638	8.638	(1.069)	361747	100.000	29.77
194	Acetaldehyde	44	1.426	1.426	(0.304)	82765	400.000	415.70
131	Methyl Acrylate	55	4.219	4.219	(0.899)	141905	100.000	102.36
133	Ethyl Acrylate	55	5.823	5.823	(1.240)	189854	100.000	111.03
203	2-Ethylhexyl Acrylate	55	11.945	11.945	(1.186)	232198	100.000	103.17(A)
204	2-Chloropropene	41	1.876	1.876	(0.400)	193284	100.000	105.72(A)
163	Butyl methacrylate	41	9.557	9.557	(0.949)	246733	100.000	100.54
167	Ethanol	45	2.007	2.007	(0.428)	37609	2000.00	2053.35
200	Dimethyl Disulfide	94	6.633	6.633	(0.821)	235609	100.000	37.43
M 94	1,2-Dichloroethylene (total)	96				298341	200.000	(a)
M 95	Xylenes (total)	106				789165	300.000	(a)

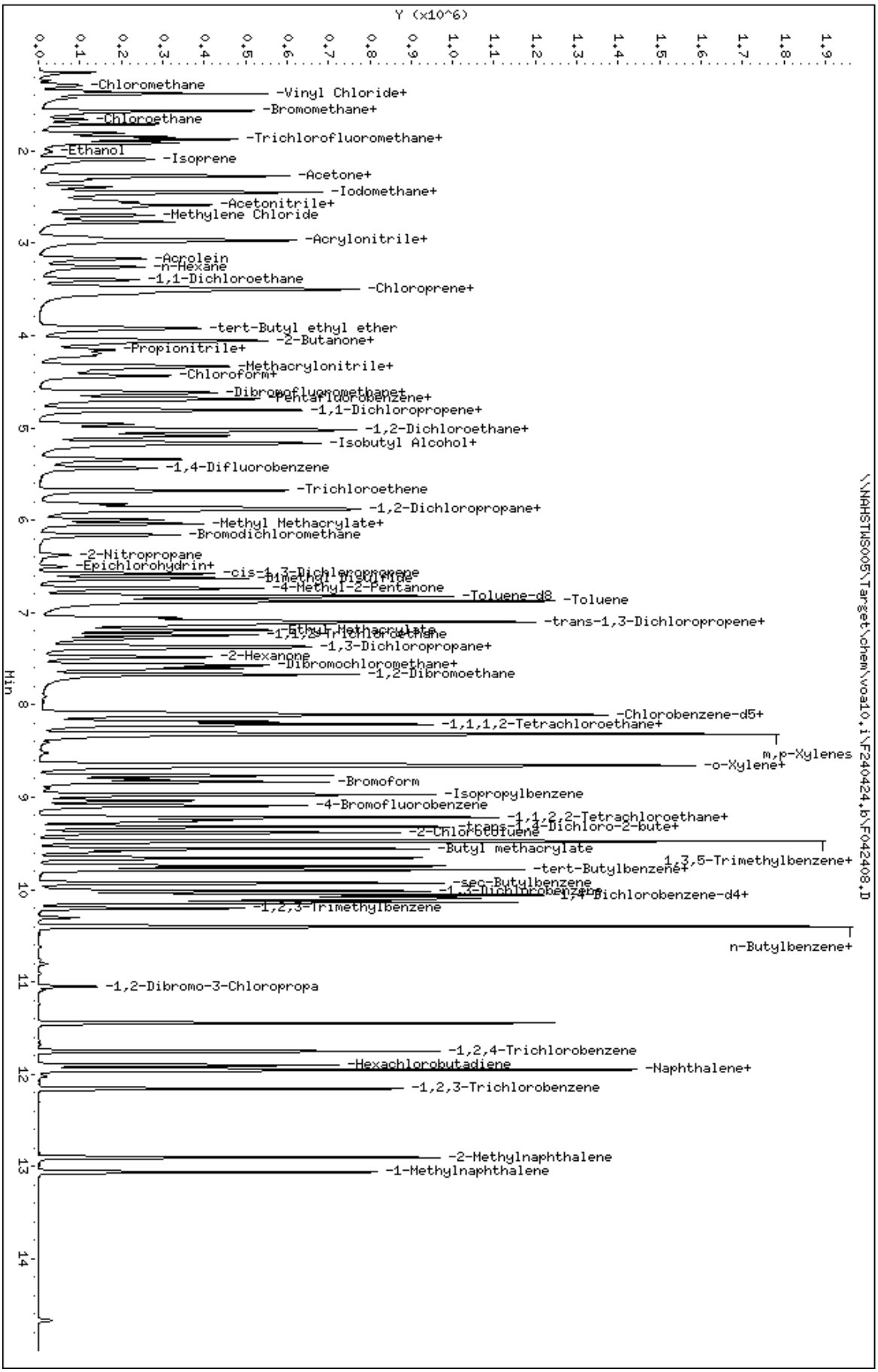
QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

QC Flag Legend

M - Compound response manually integrated.



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Client ID: VSTD100
Sample Info: VSTD100;VSTD100;1;8
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10,i
Operator: TS
Column diameter: 0.18

Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042408.d
Inj Date : 24-APR-2024 11:59
InstruID : voa10.i
LabSampID : VSTD100

Vinyl Acetate (108-05-4)

Reason Code:

BEFORE

MASS
43
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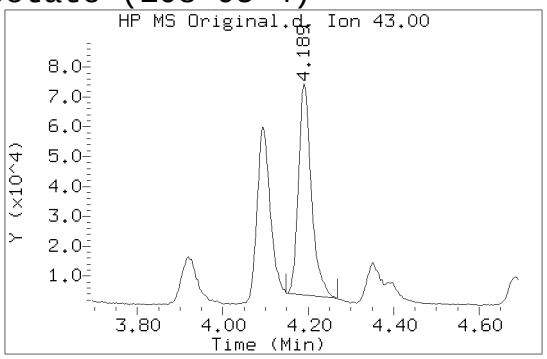
152240
HEIGHT
70793
24-Apr-2024
13:49
firat
tastan



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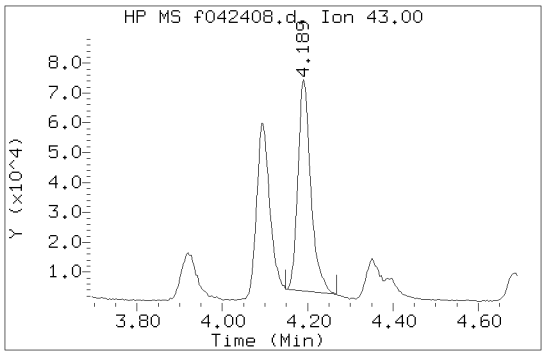

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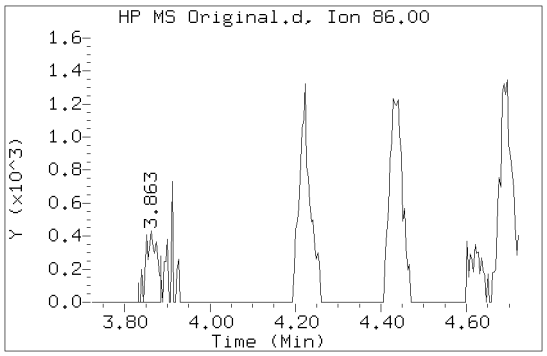

AFTER

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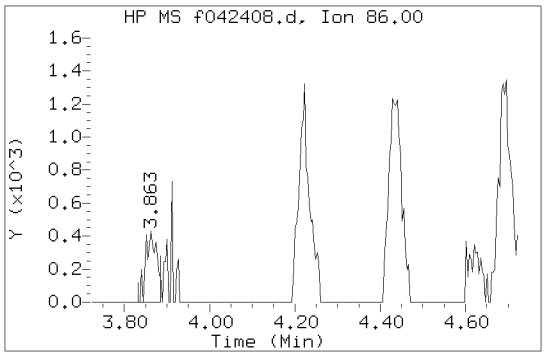

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

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24-Apr-2024
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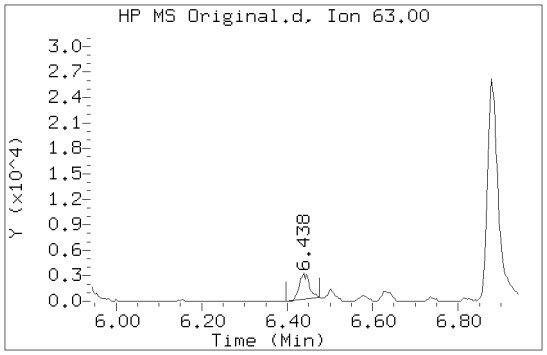

AFTER

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24-Apr-2024
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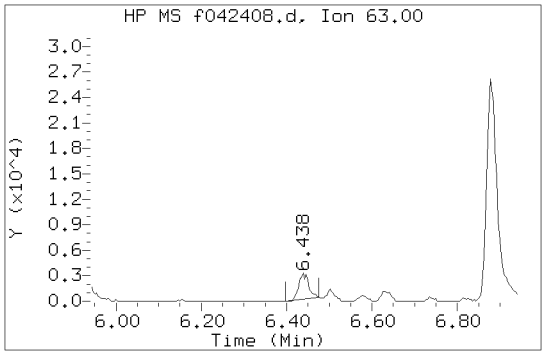

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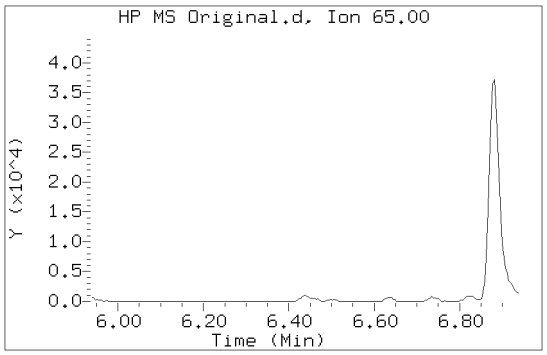

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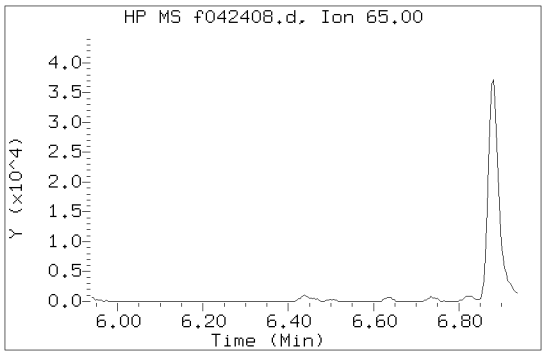

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Inj Date : 24-APR-2024 11:59
InstruID : voa10.i
LabSampID : VSTD100

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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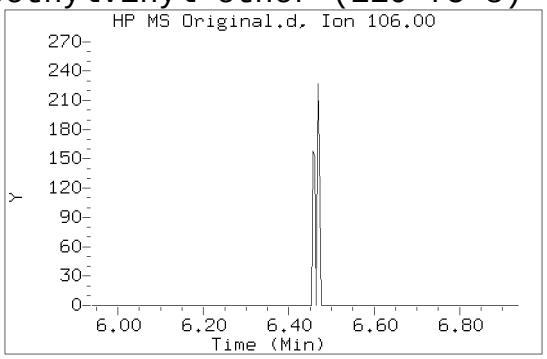

AFTER

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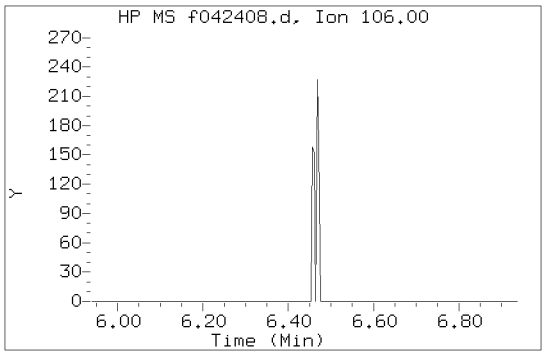

Allyl Chloride (107-05-1)

Reason Code:

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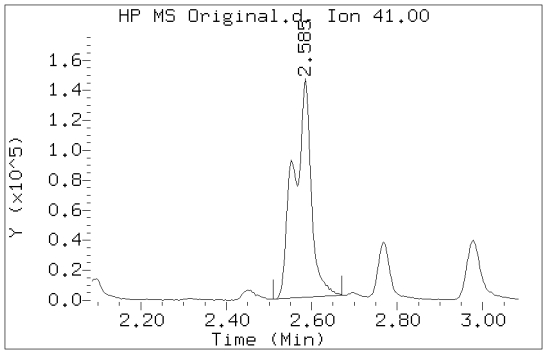

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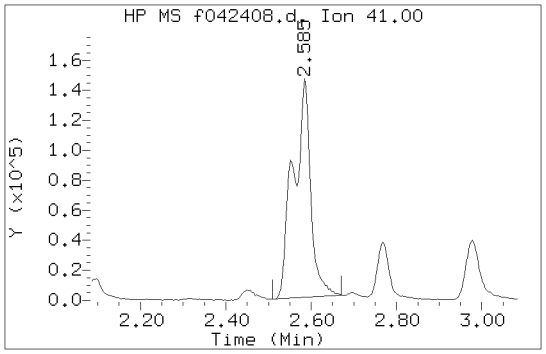

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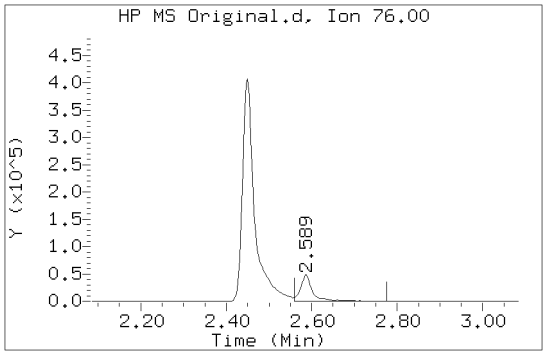

AFTER

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13:49
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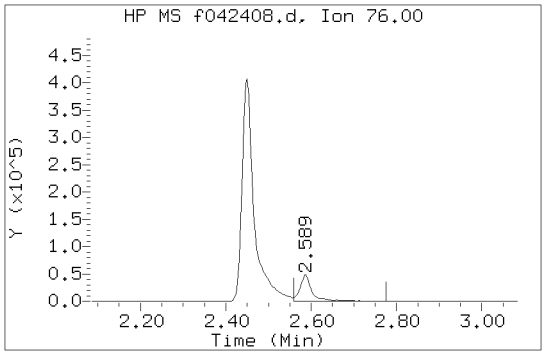

1,4-Dioxane ()

Reason Code:

BEFORE

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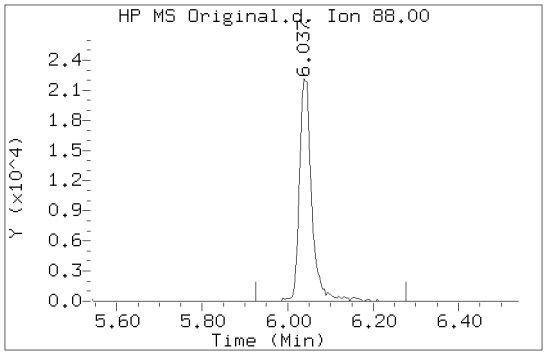

AFTER

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24-Apr-2024
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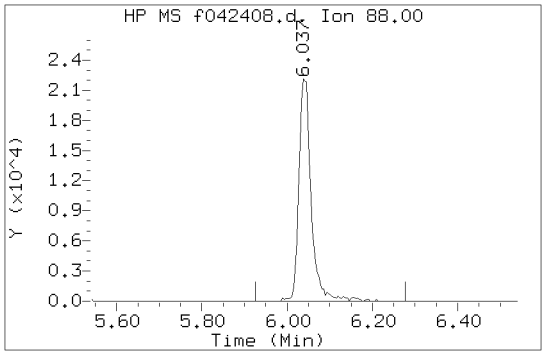

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Inj Date : 24-APR-2024 11:59
InstruID : voa10.i
LabSampID : VSTD100

1,4-Dioxane ()

Reason Code:

BEFORE

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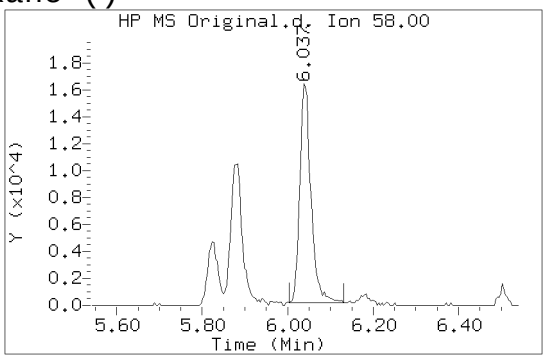

AFTER

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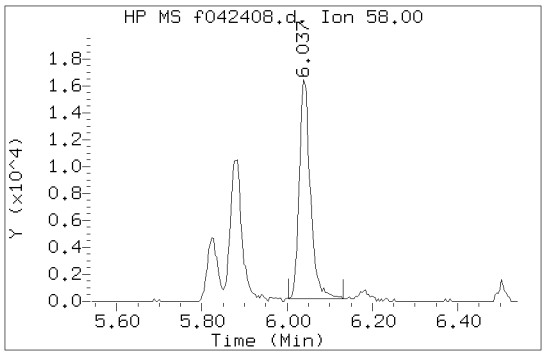

4-Methyl-2-pentanol (108-11-2)

Reason Code:

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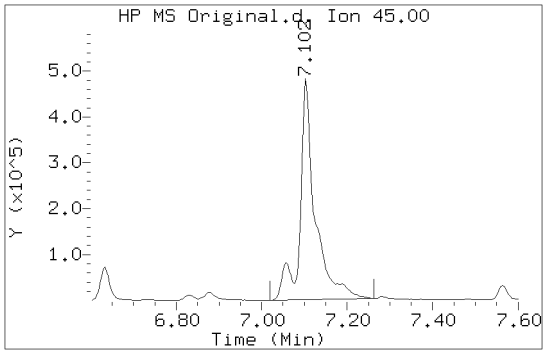

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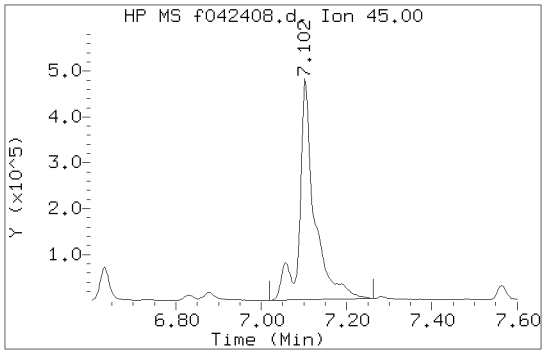

BEFORE

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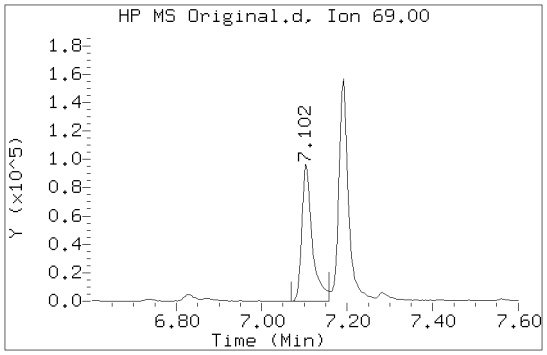

AFTER

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24-Apr-2024
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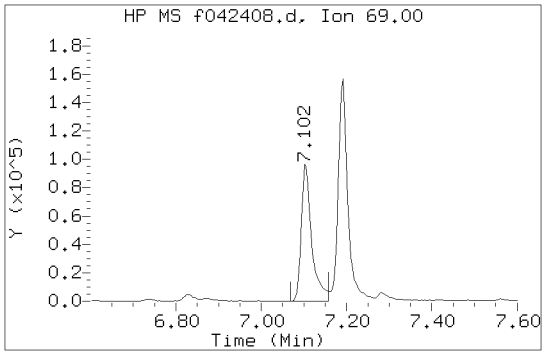

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Report Date: 21-May-2024 11:20

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042409.D
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Inj Date : 24-APR-2024 12:20
Operator : TS Inst ID: voa10.i
Smp Info : VSTD150;VSTD150;1;9
Misc Info : V10;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa10.i\F240424.b\8260W.m
Meth Date : 21-May-2024 11:20 rucha.pate Quant Type: ISTD
Cal Date : 24-APR-2024 12:20 Cal File: F042409.D
Als bottle: 9 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_8260.sub
Target Version: 4.14

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	4.695	4.695	(1.000)	185946	50.0000	
2	Dichlorodifluoromethane	85	1.149	1.149	(0.245)	173650	150.000	149.21
3	Chloromethane	50	1.291	1.295	(0.275)	249971	150.000	156.45
4	Propionitrile	54	4.155	4.151	(0.885)	326991	1500.00	1504.07
5	Vinyl Chloride	62	1.351	1.351	(0.288)	233906	150.000	146.70
6	Bromomethane	94	1.572	1.572	(0.335)	110840	150.000	149.26
7	Chloroethane	64	1.655	1.655	(0.353)	142791	150.000	150.53
8	Trichlorofluoromethane	101	1.850	1.850	(0.394)	290346	150.000	149.01
9	Acrolein	56	3.165	3.169	(0.674)	157834	300.000	295.99
10	Acetone	43	2.315	2.314	(0.493)	140643	300.000	306.16
11	1,1-Dichloroethene	96	2.266	2.266	(0.483)	191976	150.000	148.52
12	Isobutyl Alcohol	43	5.160	5.160	(1.099)	743535	3000.00	3308.71
13	Acetonitrile	39	2.584	2.584	(0.551)	330877	1500.00	1492.19
14	Allyl Chloride	41	2.584	2.584	(0.551)	451717	150.000	115.14
15	Iodomethane	142	2.390	2.386	(0.509)	378640	300.000	293.23
16	Acrylonitrile	53	2.933	2.933	(0.625)	166937	300.000	296.75
17	Methylene Chloride	84	2.697	2.697	(0.574)	216000	150.000	149.45
18	Methyl tert-butyl ether	73	2.974	2.978	(0.634)	637945	150.000	157.45
19	Carbon Disulfide	76	2.449	2.449	(0.522)	1210801	300.000	318.79
20	trans-1,2-Dichloroethene	96	2.963	2.963	(0.631)	214875	150.000	166.58
21	Vinyl Acetate	43	4.189	4.193	(0.892)	256588	300.000	310.65

22 1,1-Dichloroethane	63	3.394	3.394 (0.723)	373869	150.000	152.21
23 Chloroprene	53	3.499	3.495 (0.745)	329039	150.000	149.30

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)
	24	2-Butanone	43	4.095	4.095	(0.872)	199477	300.000	296.11
	25	Methacrylonitrile	41	4.331	4.331	(0.923)	193601	150.000	150.58(M)
	26	2,2-Dichloropropane	77	4.058	4.054	(0.864)	303904	150.000	149.05
	27	cis-1,2-Dichloroethene	96	4.058	4.058	(0.864)	232871	150.000	156.09
	28	Chloroform	83	4.436	4.432	(0.945)	366653	150.000	151.84
	29	Bromochloromethane	128	4.331	4.328	(0.923)	109339	150.000	151.54
$	30	Dibromofluoromethane	113	4.612	4.609	(0.982)	197021	150.000	141.79
	31	1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	320177	150.000	148.71
	32	1,1-Dichloropropene	75	4.807	4.807	(0.885)	295231	150.000	143.58
	33	1,2-Dichloroethane	62	5.040	5.040	(0.928)	286947	150.000	148.96
	34	Carbon Tetrachloride	117	4.804	4.804	(0.884)	278754	150.000	157.89
$	35	1,2-Dichloroethane-d4	65	4.961	4.961	(1.057)	228208	150.000	140.61
*	36	1,4-Difluorobenzene	114	5.433	5.437	(1.000)	243883	50.0000	
	37	Benzene	78	5.021	5.021	(0.924)	896371	150.000	152.47
	38	Trichloroethene	130	5.677	5.677	(1.045)	243348	150.000	146.62
	39	Bromodichloromethane	83	6.157	6.157	(1.133)	284782	150.000	163.13
	40	Methyl Methacrylate	41	6.041	6.041	(1.287)	230250	150.000	149.25
	41	2-Chloroethylvinyl ether	63	6.438	6.442	(1.185)	6548	300.000	317.60(M)
	42	1,2-Dichloropropane	63	5.891	5.433	(1.084)	230985	150.000	152.21
	43	2-Nitropropane	43	6.374	6.378	(1.358)	70031	150.000	146.13
	44	Dibromomethane	93	5.996	5.992	(1.103)	131003	150.000	155.97
	45	4-Methyl-2-Pentanone	43	6.738	6.816	(0.834)	532835	300.000	187.17
	46	cis-1,3-Dichloropropene	75	6.580	6.577	(1.211)	333358	150.000	175.10
*	47	Chlorobenzene-d5	117	8.084	8.084	(1.000)	214103	50.0000	
$	48	Toluene-d8	98	6.820	6.820	(0.844)	783715	150.000	82.16
	49	Ethyl Methacrylate	69	7.192	6.824	(1.324)	361608	150.000	162.78
	50	Toluene	91	6.880	6.880	(0.851)	940998	150.000	89.88
	51	trans-1,3-Dichloropropene	75	7.083	7.083	(1.304)	267377	150.000	150.61
	52	2-Hexanone	43	7.480	7.480	(0.925)	383480	300.000	111.79
	53	1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	166904	150.000	89.73
	54	1,3-Dichloropropane	76	7.386	7.386	(0.914)	340698	150.000	89.23
	55	Dibromochloromethane	129	7.581	7.578	(0.938)	234436	150.000	95.61
	56	Tetrachloroethene	164	7.364	7.364	(0.911)	210717	150.000	93.96
	57	1,2-Dibromoethane	107	7.671	7.671	(0.949)	162871	150.000	87.79
	58	1-Chlorohexane	55	8.106	8.087	(1.492)	203769	150.000	148.20
	59	Chlorobenzene	112	8.106	8.106	(1.003)	615745	150.000	89.64
	60	1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	218281	150.000	95.06
	61	Ethylbenzene	106	8.211	8.211	(1.016)	327504	150.000	92.68
	62	m,p-Xylenes	106	8.316	8.316	(1.029)	816528	300.000	184.45
	63	o-Xylene	106	8.653	8.650	(1.070)	393647	150.000	90.72
	64	Styrene	104	8.665	8.661	(1.072)	679340	150.000	93.45
	66	Bromoform	173	8.807	8.811	(1.089)	184507	150.000	54.65
	67	Isopropylbenzene	105	8.972	8.968	(1.110)	982797	150.000	93.55
	68	1,1,2,2-Tetrachloroethane	83	9.220	9.219	(0.916)	303266	150.000	157.66
$	69	4-Bromofluorobenzene	95	9.092	9.092	(1.125)	283999	150.000	54.98
*	70	1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	121135	50.0000	
	71	1,2,3-Trichloropropane	75	9.250	9.092	(0.918)	302411	150.000	156.12
	72	trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	58933	150.000	74.73
	73	n-Propylbenzene	91	9.321	9.321	(0.926)	1115516	150.000	158.46
	74	Bromobenzene	156	9.216	9.216	(0.915)	300810	150.000	149.34
	75	1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	852024	150.000	157.91
	76	2-Chlorotoluene	91	9.388	9.384	(0.932)	694607	150.000	151.13

77	4-Chlorotoluene	91	9.478	9.478 (0.941)	786281	150.000	150.39
78	tert-Butylbenzene	119	9.748	10.055 (0.968)	683419	150.000	156.10

	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	9.786	9.786	(0.972)	834566	150.000	153.96
81	sec-Butylbenzene	105	9.932	9.932	(0.986)	920597	150.000	160.96
82	p-Isopropyltoluene	119	10.055	10.055	(0.999)	867785	150.000	162.41
83	1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	540535	150.000	154.23
84	1,4-Dichlorobenzene	146	10.093	10.085	(1.002)	540637	150.000	147.22
87	n-Butylbenzene	91	10.400	10.400	(1.033)	745851	150.000	161.34
88	1,2-Dichlorobenzene	146	10.404	10.085	(1.033)	537219	150.000	152.04
89	1,2-Dibromo-3-Chloropropane	155	11.053	11.053	(1.098)	45863	150.000	149.61
90	1,2,4-Trichlorobenzene	180	11.754	11.754	(1.167)	429680	150.000	166.61
91	Hexachlorobutadiene	225	11.904	11.904	(1.182)	208522	150.000	151.39
92	Naphthalene	128	11.956	11.960	(1.187)	972745	150.000	151.48
93	1,2,3-Trichlorobenzene	180	12.158	12.158	(1.207)	389370	150.000	165.13
135	1,4-Dioxane	88	6.044	6.041	(1.287)	68686	3000.00	2976.59(M)
130	Ethyl Acetate	43	4.189	4.193	(0.892)	256588	150.000	153.75
136	n-Hexane	57	3.255	3.259	(0.693)	237487	150.000	149.90
138	Freon TF	101	2.277	2.277	(0.485)	196448	150.000	148.52
141	Cyclohexane	56	4.684	4.691	(0.998)	304780	150.000	149.16
142	Tetrahydrofuran	42	4.395	4.395	(0.936)	78533	300.000	280.63
146	Methyl Acetate	43	2.611	2.614	(0.556)	340689	150.000	150.89
147	Methylcyclohexane	55	5.861	5.861	(1.079)	340510	150.000	145.57(A)
149	Isopropyl alcohol	45	2.453	2.449	(0.523)	341819	3000.00	3248.27
151	4-Methyl-2-pentanol	45	7.105	7.102	(1.308)	1797053	3000.00	2906.18
156	Diisopropyl ether	45	3.503	3.507	(0.746)	766210	150.000	153.98
158	Dichlorofluoromethane	67	1.805	1.805	(0.384)	333552	150.000	158.74
166	1,2,3-Trimethylbenzene	105	10.138	10.142	(1.007)	804749	150.000	150.05
160	2-Methylnaphthalene	142	12.901	12.904	(1.281)	620204	150.000	150.89
180	1-Methylnaphthalene	142	13.062	13.062	(1.297)	520784	150.000	150.36
174	tert-Amyl methyl ether	73	5.171	5.171	(1.101)	709059	150.000	167.90
175	tert-Butyl ethyl ether	59	3.919	3.923	(0.835)	704303	150.000	161.98
140	1,3-Butadiene	54	1.377	1.377	(0.293)	232773	150.000	147.66
189	n-Butyl acetate	43	7.608	7.608	(0.941)	458016	150.000	96.05
86	Benzyl Chloride	91	10.400	10.400	(1.287)	745851	150.000	94.65
178	Ethylene oxide	44	1.565	1.572	(0.333)	638395	300.000	281.12
182	Epichlorohydrin	57	6.502	6.502	(1.197)	74424	600.000	590.00
185	Isoprene	39	2.097	2.097	(0.447)	63315	150.000	149.45
150	Allyl alcohol	57	3.499	3.492	(0.745)	98873	3000.00	2920.30
162	Butyl acrylate	55	8.638	8.638	(1.069)	560930	150.000	54.54
194	Acetaldehyde	44	1.422	1.426	(0.303)	119474	600.000	593.13
131	Methyl Acrylate	55	4.219	4.219	(0.899)	209011	150.000	147.99
133	Ethyl Acrylate	55	5.823	5.823	(1.240)	290320	150.000	166.77
203	2-Ethylhexyl Acrylate	55	11.945	11.945	(1.186)	371435	150.000	148.82(A)
204	2-Chloropropene	41	1.876	1.876	(0.400)	279254	150.000	150.40(A)
163	Butyl methacrylate	41	9.557	9.557	(0.949)	387022	150.000	149.83
167	Ethanol	45	2.011	2.007	(0.428)	55945	3000.00	3004.09
200	Dimethyl Disulfide	94	6.633	6.633	(0.821)	377637	150.000	73.51
M 94	1,2-Dichloroethylene (total)	96				447746	300.000	(a)
M 95	Xylenes (total)	106				1210175	450.000	(a)

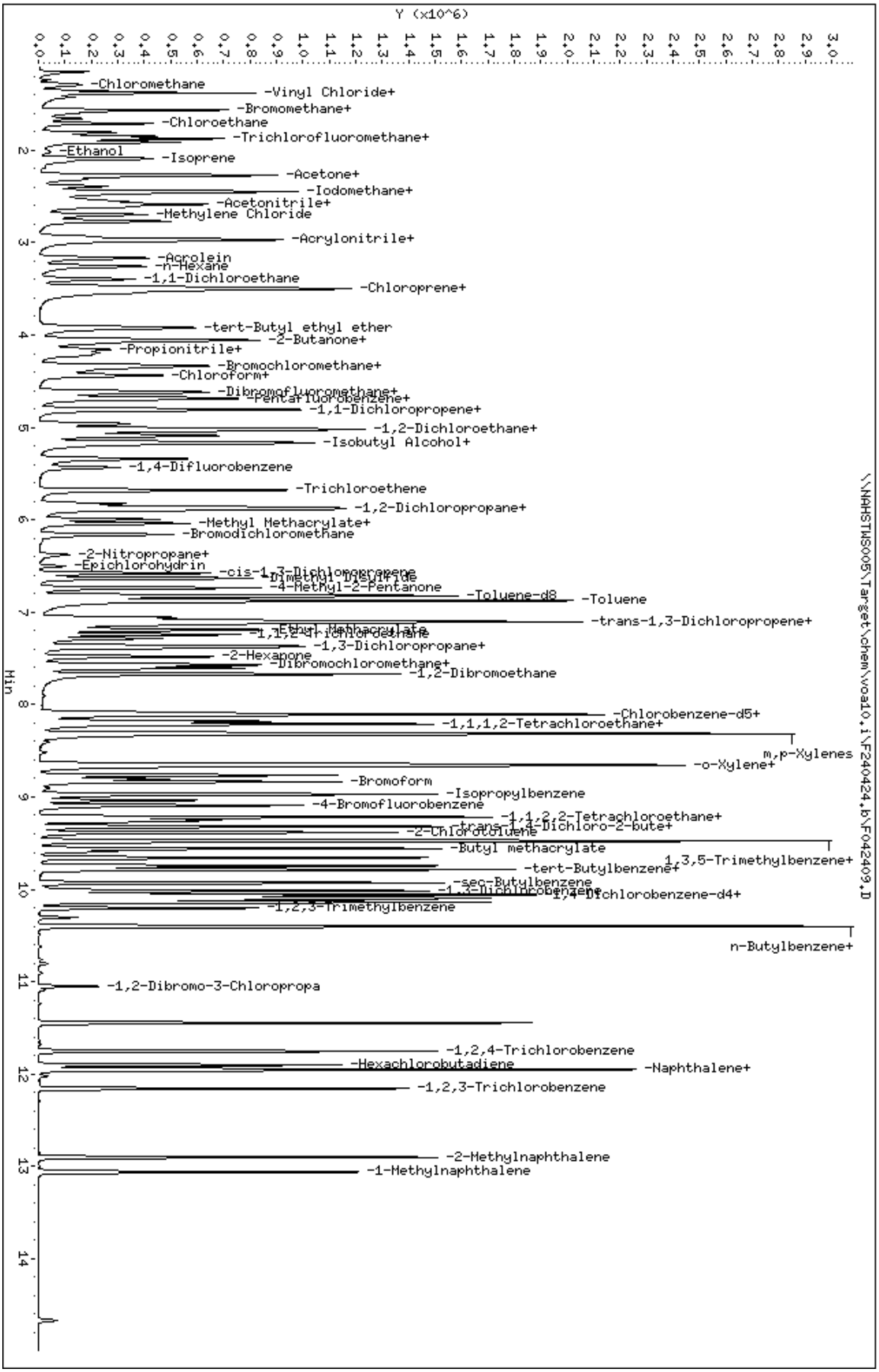
QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

QC Flag Legend

M - Compound response manually integrated.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Sample Info: VSTD150;VSTD150;1;9
Purge Volume: 5.0
Column phase: DB624
Instrument: voa10,i
Operator: TS
Column diameter: 0.18
Page 1
\\NAHSTWS005\Target\chem\voa10,i\F240424,b\F042409,D
Y (x10^6)
Min
-Chloromethane
-Vinyl Chloride+
-Bromomethane+
-Chloroethane
-Trichlorofluoromethane+
-Ethanol
-Isoprene
-Acetone+
-Iodomethane+
-Acetonitrile+
-Methylene Chloride
-Acrylonitrile+
-Acrolein
-n-Hexane
-1,1-Dichloroethane
-Chloroprene+
-tert-Butyl ethyl ether
-2-Butanone+
-Propionitrile+
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-Chloroform+
-Dibromofluoromethane+
-Pentafluorobenzene+
-1,1-Dichloropropene+
-1,2-Dichloroethane+
-Isobutyl Alcohol+
-1,4-Difluorobenzene
-Trichloroethene
-1,2-Dichloropropane+
-Methyl Methacrylate+
-Bromodichloromethane
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-Epichlorohydrin
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-4-Methyl-2-Pentanone
-Toluene-d8
-Toluene
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-2-Hexanone
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-o-Xylene+
-Bromoform
-Isopropylbenzene
-4-Bromofluorobenzene
-1,1,2,2-Tetrachloroethane+
-2-Chlorotoluene
-Butyl methacrylate
1,3,5-Trimethylbenzene+
-tert-Butylbenzene+
-sec-Butylbenzene
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Inj Date : 24-APR-2024 12:20
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2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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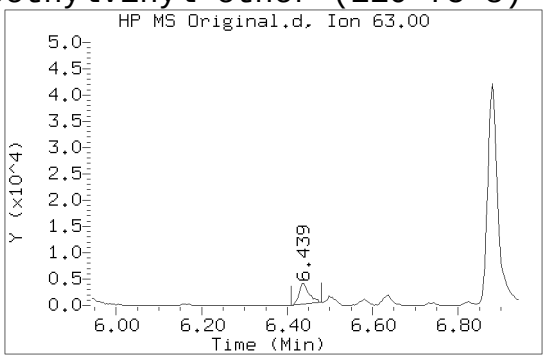

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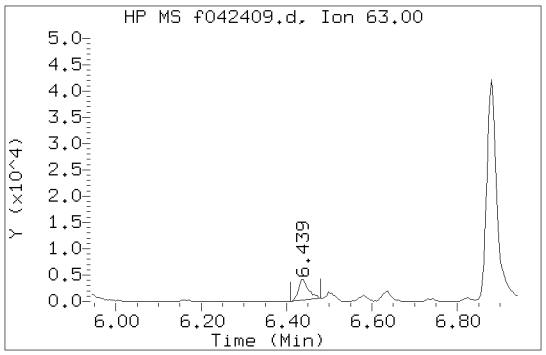

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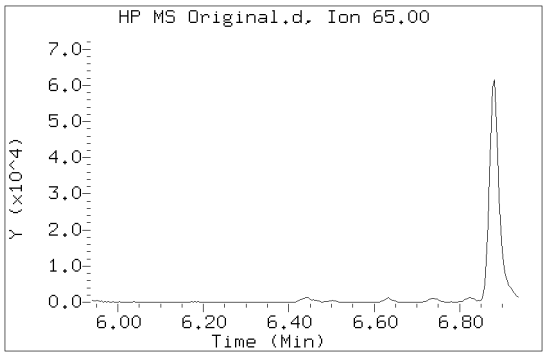

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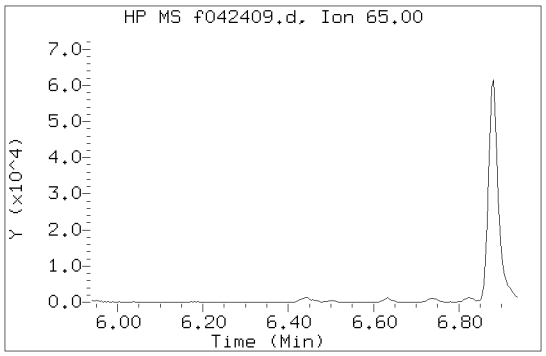

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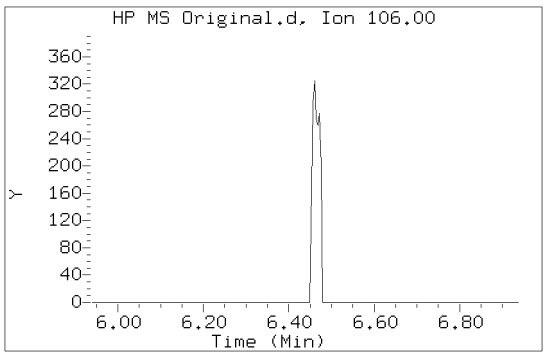

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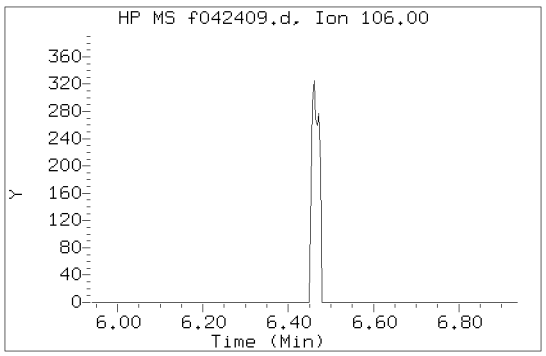

Methacrylonitrile (126-98-7)

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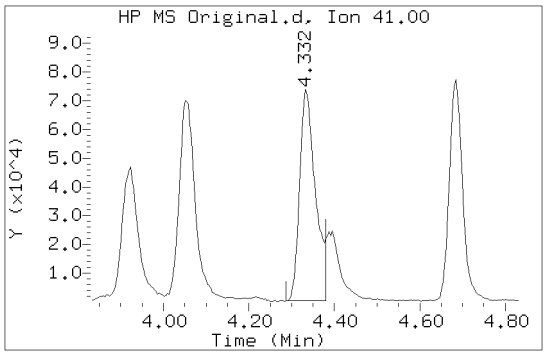

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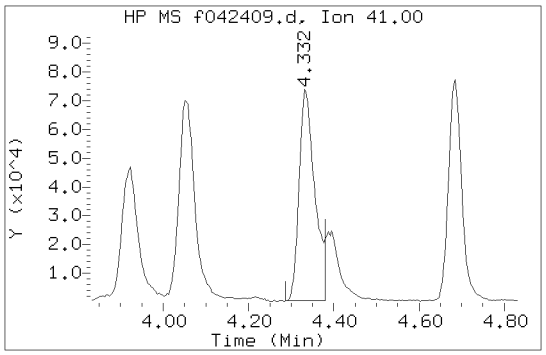

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InstruID : voa10.i
LabSampID : VSTD150

Methacrylonitrile (126-98-7)

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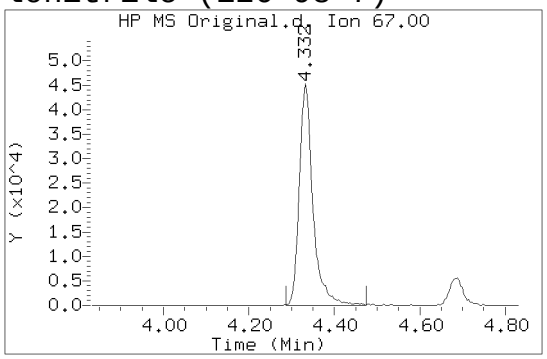

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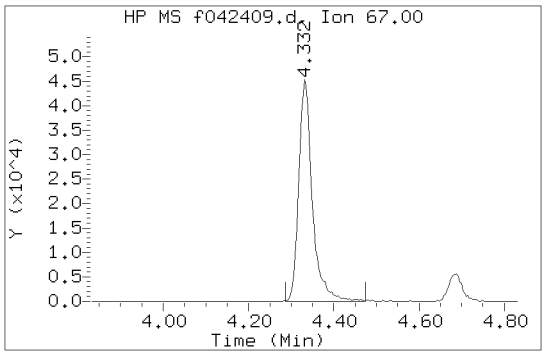

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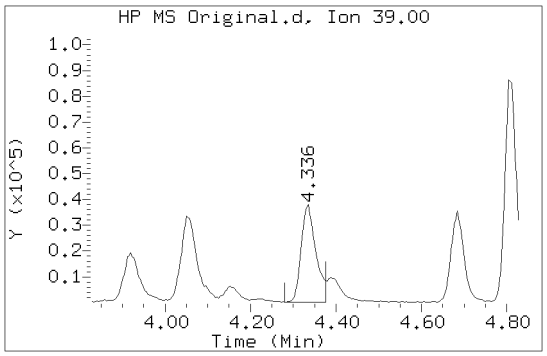

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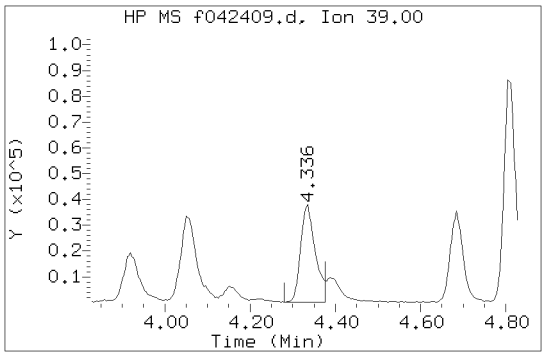

1,4-Dioxane ()

Reason Code:

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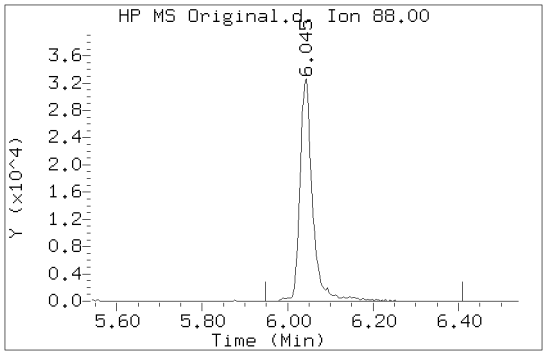

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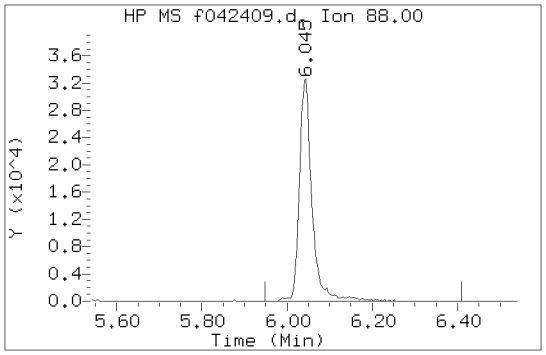

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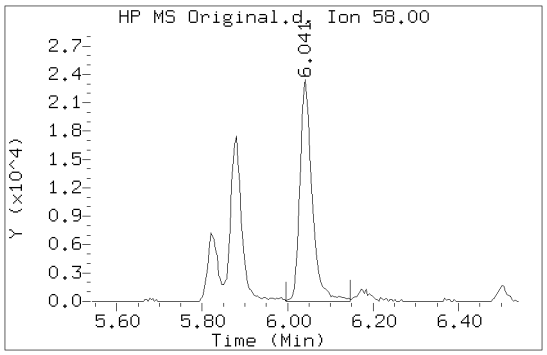

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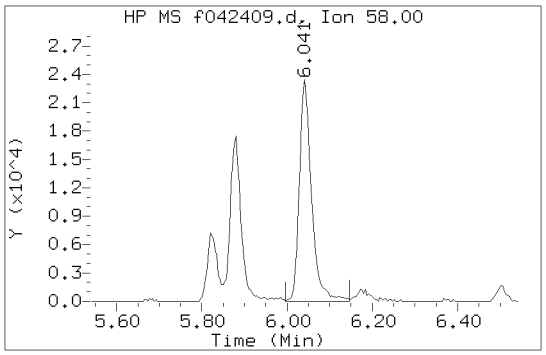

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Report Date: 21-May-2024 11:20

ALS Laboratory Group

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Operator : TS Inst ID: voa10.i
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Comment :
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Cal Date : 24-APR-2024 12:41 Cal File: F042410.D
Als bottle: 10 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_8260.sub
Target Version: 4.14

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	4.695	4.695	(1.000)	189622	50.0000	
2	Dichlorodifluoromethane	85	1.149	1.149	(0.245)	238522	200.000	200.65(A)
3	Chloromethane	50	1.295	1.295	(0.276)	343563	200.000	210.87(A)
4	Propionitrile	54	4.159	4.151	(0.886)	447375	2000.00	2017.92(A)
5	Vinyl Chloride	62	1.351	1.351	(0.288)	331310	200.000	203.23(A)
6	Bromomethane	94	1.572	1.572	(0.335)	154616	200.000	203.05(A)
7	Chloroethane	64	1.651	1.655	(0.352)	192225	200.000	198.69
8	Trichlorofluoromethane	101	1.850	1.850	(0.394)	398699	200.000	200.41(A)
9	Acrolein	56	3.166	3.169	(0.674)	223114	400.000	407.89(A)
10	Acetone	43	2.318	2.314	(0.494)	183085	400.000	392.05
11	1,1-Dichloroethene	96	2.266	2.266	(0.483)	263673	200.000	199.91
12	Isobutyl Alcohol	43	5.160	5.160	(1.099)	1013054	4000.00	4420.67(A)
13	Acetonitrile	39	2.584	2.584	(0.551)	446626	2000.00	1975.00
14	Allyl Chloride	41	2.584	2.584	(0.551)	625567	200.000	156.36
15	Iodomethane	142	2.390	2.386	(0.509)	544915	400.000	410.96(A)
16	Acrylonitrile	53	2.933	2.933	(0.625)	228739	400.000	398.95
17	Methylene Chloride	84	2.697	2.697	(0.574)	294578	200.000	200.07(A)
18	Methyl tert-butyl ether	73	2.978	2.978	(0.634)	882428	200.000	213.57(A)
19	Carbon Disulfide	76	2.450	2.449	(0.522)	1676517	400.000	432.85(A)
20	trans-1,2-Dichloroethene	96	2.963	2.963	(0.631)	294786	200.000	224.10(A)
21	Vinyl Acetate	43	4.189	4.193	(0.892)	357691	400.000	424.67(A)

22 1,1-Dichloroethane	63	3.394	3.394 (0.723)	520788	200.000	207.92(A)
23 Chloroprene	53	3.495	3.495 (0.745)	450929	200.000	200.40(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	4.095	4.095	(0.872)	269393	400.000	392.15
	25 Methacrylonitrile	41	4.331	4.331	(0.923)	259581	200.000	198.03(M)
	26 2,2-Dichloropropane	77	4.054	4.054	(0.863)	418728	200.000	201.02(A)
	27 cis-1,2-Dichloroethene	96	4.058	4.058	(0.864)	317336	200.000	208.58(A)
	28 Chloroform	83	4.436	4.432	(0.945)	495715	200.000	201.31(A)
	29 Bromochloromethane	128	4.331	4.328	(0.923)	143837	200.000	195.86
$	30 Dibromofluoromethane	113	4.609	4.609	(0.982)	271319	200.000	191.48
	31 1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	441882	200.000	201.06(A)
	32 1,1-Dichloropropene	75	4.807	4.807	(0.884)	407561	200.000	195.27
	33 1,2-Dichloroethane	62	5.040	5.040	(0.927)	386058	200.000	197.45
	34 Carbon Tetrachloride	117	4.804	4.804	(0.883)	384081	200.000	214.33(A)
$	35 1,2-Dichloroethane-d4	65	4.961	4.961	(1.057)	309279	200.000	186.86
*	36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	247549	50.0000	
	37 Benzene	78	5.021	5.021	(0.923)	1229442	200.000	206.03(A)
	38 Trichloroethene	130	5.677	5.677	(1.044)	334006	200.000	198.26
	39 Bromodichloromethane	83	6.157	6.157	(1.132)	383573	200.000	216.47(A)
	40 Methyl Methacrylate	41	6.041	6.041	(1.287)	312973	200.000	199.00
	41 2-Chloroethylvinyl ether	63	6.438	6.442	(1.184)	7407	400.000	388.55(M)
	42 1,2-Dichloropropane	63	5.891	5.433	(1.083)	309979	200.000	201.24(A)
	43 2-Nitropropane	43	6.374	6.378	(1.358)	99918	200.000	203.42(A)
	44 Dibromomethane	93	5.996	5.992	(1.103)	176819	200.000	207.40(A)
	45 4-Methyl-2-Pentanone	43	6.738	6.816	(0.834)	721585	400.000	319.56
	46 cis-1,3-Dichloropropene	75	6.581	6.577	(1.210)	453261	200.000	234.56(A)
*	47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	214419	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	1068727	200.000	140.79
	49 Ethyl Methacrylate	69	7.192	6.824	(1.323)	484415	200.000	214.84(A)
	50 Toluene	91	6.880	6.880	(0.851)	1272603	200.000	151.67
	51 trans-1,3-Dichloropropene	75	7.083	7.083	(1.303)	365364	200.000	202.00(A)
	52 2-Hexanone	43	7.484	7.480	(0.926)	514502	400.000	231.82
	53 1,1,2-Trichloroethane	83	7.244	7.240	(0.896)	226865	200.000	152.12
	54 1,3-Dichloropropane	76	7.386	7.386	(0.914)	457511	200.000	149.25
	55 Dibromochloromethane	129	7.581	7.578	(0.938)	313439	200.000	162.09
	56 Tetrachloroethene	164	7.364	7.364	(0.911)	288444	200.000	162.33
	57 1,2-Dibromoethane	107	7.671	7.671	(0.949)	233589	200.000	156.20
	58 1-Chlorohexane	55	8.106	8.087	(1.491)	283405	200.000	203.18(A)
	59 Chlorobenzene	112	8.106	8.106	(1.003)	832338	200.000	151.09
	60 1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	295809	200.000	163.09
	61 Ethylbenzene	106	8.215	8.211	(1.016)	445827	200.000	158.65
	62 m,p-Xylenes	106	8.316	8.316	(1.029)	1112622	400.000	315.67
	63 o-Xylene	106	8.650	8.650	(1.070)	532888	200.000	153.61
	64 Styrene	104	8.665	8.661	(1.072)	930020	200.000	161.23
	66 Bromoform	173	8.807	8.811	(1.089)	257040	200.000	115.92
	67 Isopropylbenzene	105	8.972	8.968	(1.110)	1359366	200.000	163.12
	68 1,1,2,2-Tetrachloroethane	83	9.220	9.219	(0.916)	417563	200.000	207.19(A)
$	69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	391654	200.000	114.83
*	70 1,4-Dichlorobenzene-d4	152	10.071	10.070	(1.000)	126913	50.0000	
	71 1,2,3-Trichloropropane	75	9.253	9.092	(0.919)	416663	200.000	205.32(A)
	72 trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	87642	200.000	59.18
	73 n-Propylbenzene	91	9.321	9.321	(0.926)	1564193	200.000	212.08(A)
	74 Bromobenzene	156	9.216	9.216	(0.915)	413999	200.000	196.17
	75 1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	1184019	200.000	209.45(A)
	76 2-Chlorotoluene	91	9.385	9.384	(0.932)	954420	200.000	198.21

77	4-Chlorotoluene	91	9.478	9.478 (0.941)	1095244	200.000	199.94
78	tert-Butylbenzene	119	9.748	10.055 (0.968)	959247	200.000	209.12(A)

	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	9.786	9.786	(0.972)	1168313	200.000	205.72(A)
81	sec-Butylbenzene	105	9.932	9.932	(0.986)	1295147	200.000	216.14(A)
82	p-Isopropyltoluene	119	10.056	10.055	(0.999)	1219802	200.000	217.90(A)
83	1,3-Dichlorobenzene	146	10.018	10.014	(0.995)	753627	200.000	205.24(A)
84	1,4-Dichlorobenzene	146	10.093	10.085	(1.002)	755838	200.000	196.46
87	n-Butylbenzene	91	10.400	10.400	(1.033)	1055549	200.000	217.94(A)
88	1,2-Dichlorobenzene	146	10.404	10.085	(1.033)	744793	200.000	201.19(A)
89	1,2-Dibromo-3-Chloropropane	155	11.053	11.053	(1.098)	64905	200.000	201.65(A)
90	1,2,4-Trichlorobenzene	180	11.754	11.754	(1.167)	588240	200.000	217.71(A)
91	Hexachlorobutadiene	225	11.904	11.904	(1.182)	287068	200.000	198.72
92	Naphthalene	128	11.956	11.960	(1.187)	1319862	200.000	196.41
93	1,2,3-Trichlorobenzene	180	12.159	12.158	(1.207)	539952	200.000	218.56(A)
135	1,4-Dioxane	88	6.044	6.041	(1.287)	94742	4000.00	4019.57(AM)
130	Ethyl Acetate	43	4.189	4.193	(0.892)	357691	200.000	210.17(A)
136	n-Hexane	57	3.255	3.259	(0.693)	327215	200.000	201.83(A)
138	Freon TF	101	2.273	2.277	(0.484)	271797	200.000	201.13(A)
141	Cyclohexane	56	4.684	4.691	(0.998)	418445	200.000	200.91(A)
142	Tetrahydrofuran	42	4.399	4.395	(0.937)	110658	400.000	387.77
146	Methyl Acetate	43	2.614	2.614	(0.557)	465334	200.000	202.11(A)
147	Methylcyclohexane	55	5.861	5.861	(1.078)	480328	200.000	202.19(A)
149	Isopropyl alcohol	45	2.457	2.449	(0.523)	482197	4000.00	4493.43(A)
151	4-Methyl-2-pentanol	45	7.109	7.102	(1.307)	2578939	4000.00	4091.65(A)
156	Diisopropyl ether	45	3.507	3.507	(0.747)	1061892	200.000	209.27(A)
158	Dichlorofluoromethane	67	1.805	1.805	(0.384)	458627	200.000	214.03(A)
166	1,2,3-Trimethylbenzene	105	10.142	10.142	(1.007)	1131389	200.000	201.35(A)
160	2-Methylnaphthalene	142	12.901	12.904	(1.281)	865107	200.000	200.14(A)
180	1-Methylnaphthalene	142	13.058	13.062	(1.297)	726404	200.000	199.67
174	tert-Amyl methyl ether	73	5.171	5.171	(1.101)	985611	200.000	228.86(A)
175	tert-Butyl ethyl ether	59	3.923	3.923	(0.836)	980011	200.000	221.02(A)
140	1,3-Butadiene	54	1.377	1.377	(0.293)	325159	200.000	201.82(A)
189	n-Butyl acetate	43	7.608	7.608	(0.941)	626015	200.000	166.67
86	Benzyl Chloride	91	10.400	10.400	(1.287)	1055549	200.000	169.39
178	Ethylene oxide	44	1.561	1.572	(0.333)	832889	400.000	359.66
182	Epichlorohydrin	57	6.502	6.502	(1.196)	104311	800.000	812.46(A)
185	Isoprene	39	2.097	2.097	(0.447)	87212	200.000	201.42(A)
150	Allyl alcohol	57	3.507	3.492	(0.747)	141278	4000.00	4066.77(A)
162	Butyl acrylate	55	8.639	8.638	(1.069)	786256	200.000	115.91
194	Acetaldehyde	44	1.426	1.426	(0.304)	162167	800.000	792.41
131	Methyl Acrylate	55	4.219	4.219	(0.899)	288706	200.000	200.37(A)
133	Ethyl Acrylate	55	5.823	5.823	(1.240)	405042	200.000	228.16(A)
203	2-Ethylhexyl Acrylate	55	11.945	11.945	(1.186)	531114	200.000	191.61(A)
204	2-Chloropropene	41	1.876	1.876	(0.400)	371424	200.000	196.43(A)
163	Butyl methacrylate	41	9.561	9.557	(0.949)	543157	200.000	200.34(A)
167	Ethanol	45	2.022	2.007	(0.431)	75343	4000.00	3970.00
200	Dimethyl Disulfide	94	6.633	6.633	(0.821)	537278	200.000	61.66
M 94	1,2-Dichloroethylene (total)	96				612122	400.000	(a)
M 95	Xylenes (total)	106				1645510	600.000	(a)

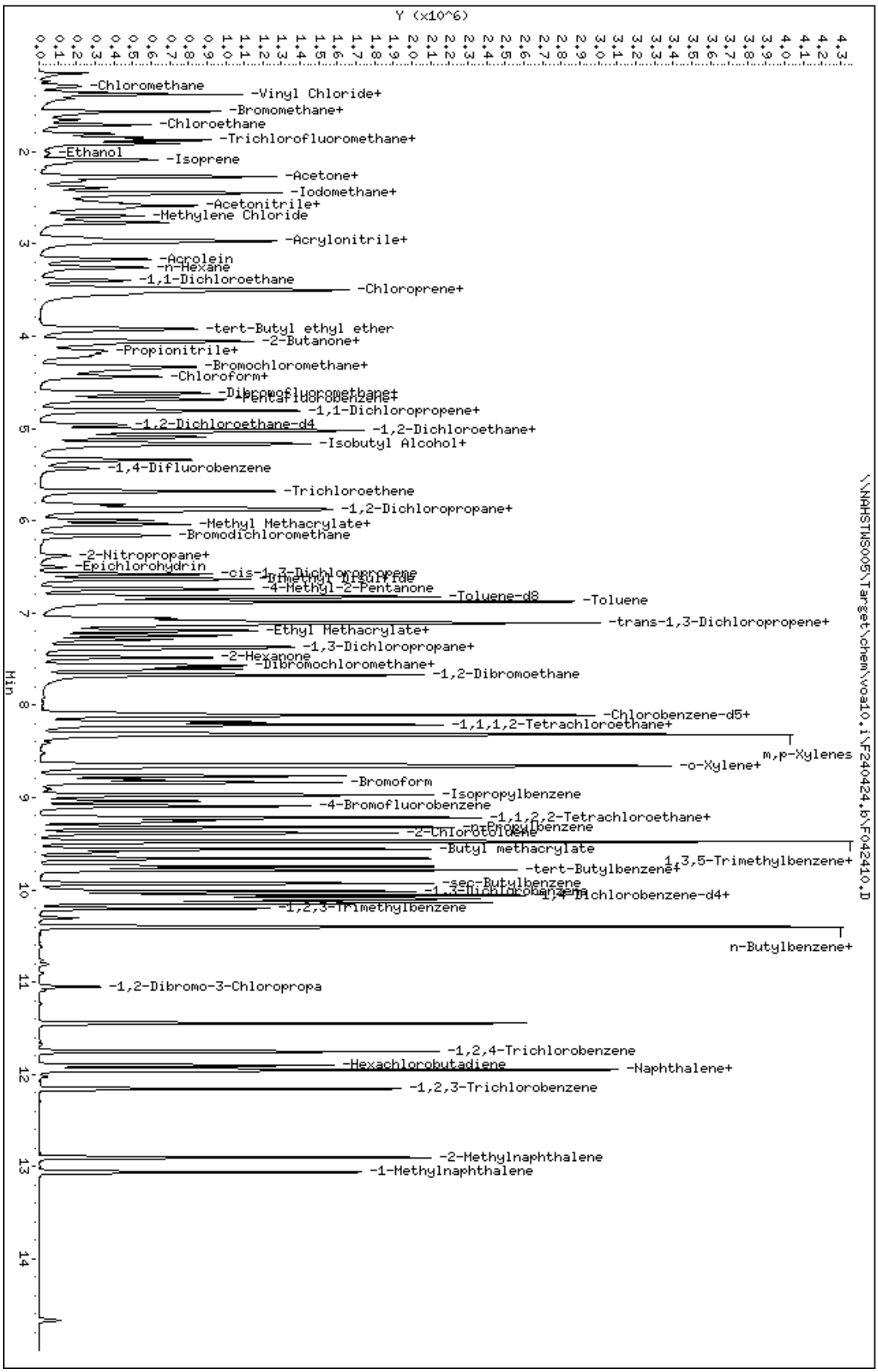
QC Flag Legend

a - Target compound detected but, quantitated amount

Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

QC Flag Legend

M - Compound response manually integrated.



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Sample Info: VSTD200;VSTD200;1;10
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Column phase: DB624

Instrument: voa10,i
Operator: TS
Column diameter: 0.18

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LabSampID : VSTD200

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

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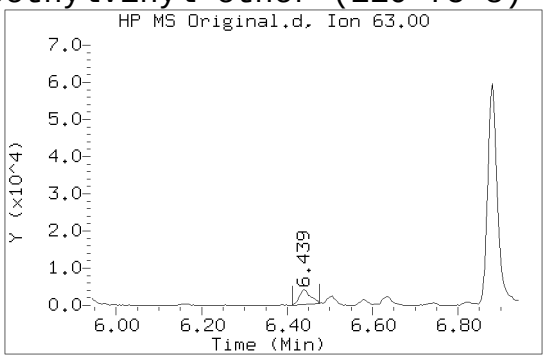

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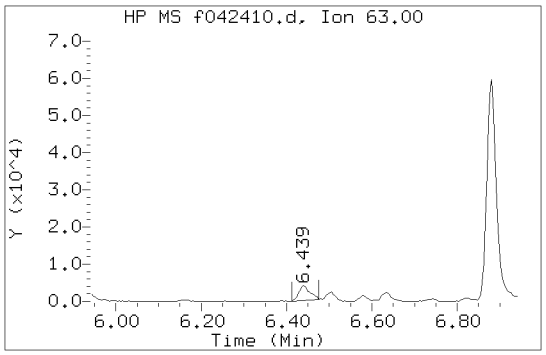

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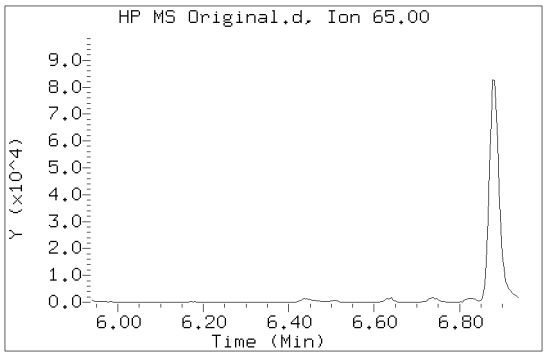

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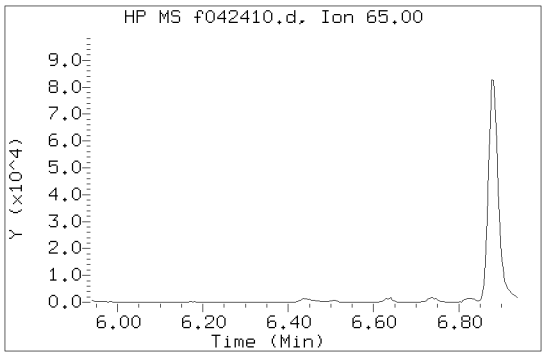

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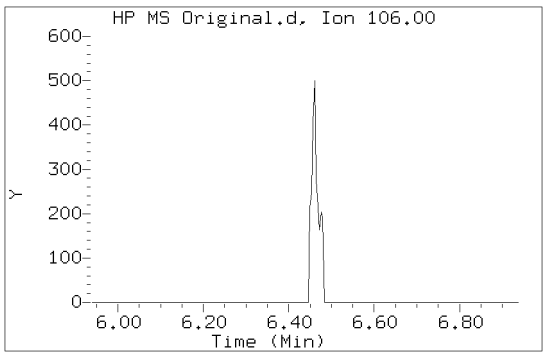

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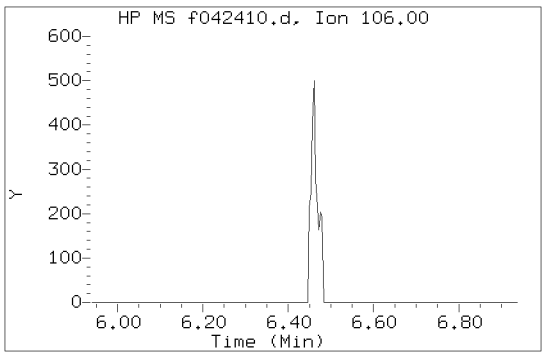

Methacrylonitrile (126-98-7)

Reason Code:

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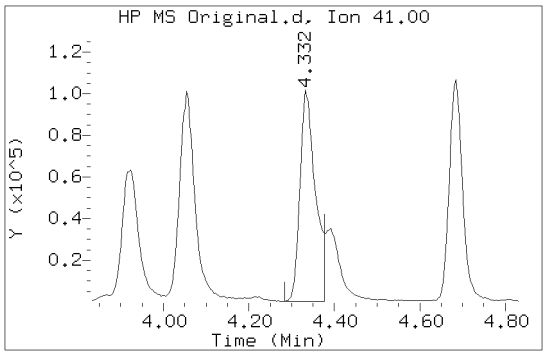

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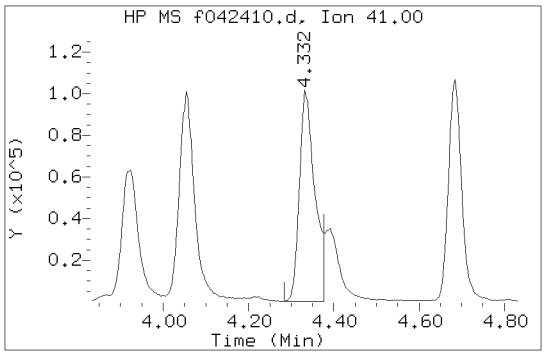

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LabSampID : VSTD200

Methacrylonitrile (126-98-7)

Reason Code:

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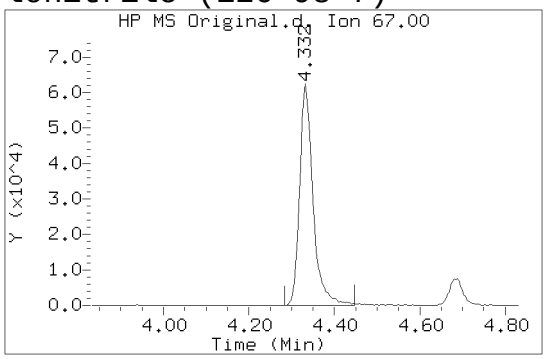

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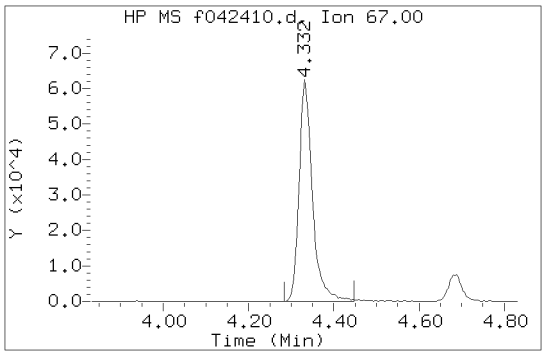

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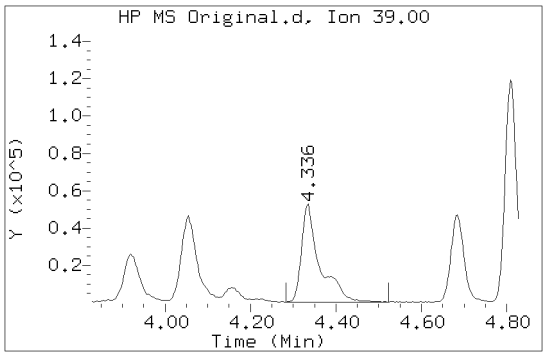

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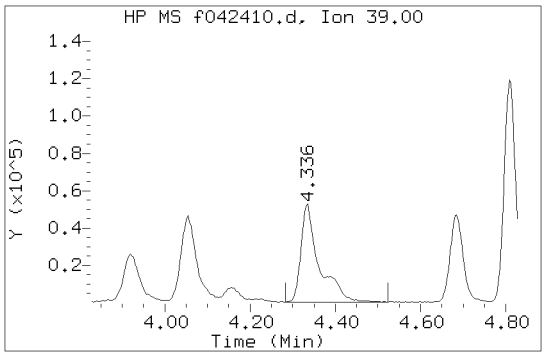

1,4-Dioxane ()

Reason Code:

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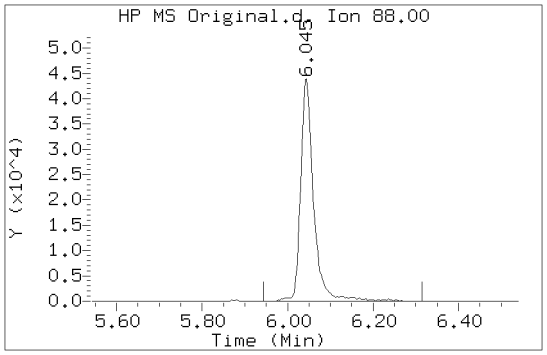

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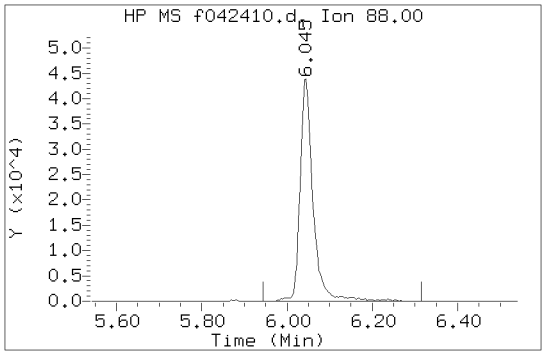

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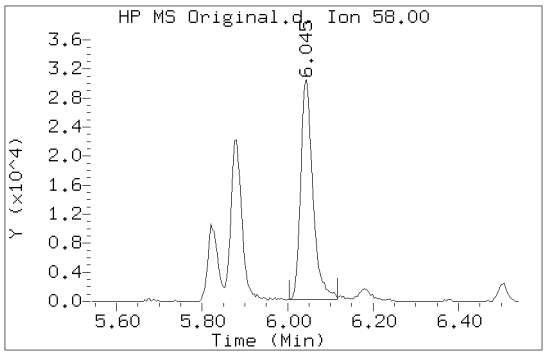

AFTER

MASS
58
AREA
61559
HEIGHT
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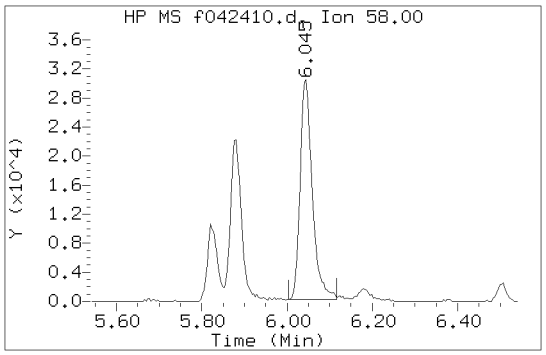
24-Apr-2024
13:49
firat
tastan



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042412.D Page 1
Report Date: 21-May-2024 11:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042412.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 24-APR-2024 13:23
Operator : TS Inst ID: voa10.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa10.i\F240424.b\bfb.m
Meth Date : 26-Dec-2023 06:28 donna.brou Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

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)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.092	9.096	(0.000)	95	47200			0.00- 100.00	100.00
9.092	9.096	(0.000)	50	8753			15.00- 40.00	18.54
9.092	9.096	(0.000)	75	23072			30.00- 60.00	48.88
9.092	9.096	(0.000)	96	3397			5.00- 9.00	7.20
9.092	9.096	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.092	9.096	(0.000)	174	43912			50.00- 0.00	93.03
9.092	9.096	(0.000)	175	3659			5.00- 9.00	8.33
9.092	9.096	(0.000)	176	42800			95.00- 101.00	97.47
9.092	9.096	(0.000)	177	2874			5.00- 9.00	6.71

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.54
75	30.00 - 60.00% of mass 95	48.88
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.03
175	5.00 - 9.00% of mass 174	7.75 (8.33)
176	95.00 - 101.00% of mass 174	90.68 (97.47)
177	5.00 - 9.00% of mass 176	6.09 (6.71)

Data File: F042412.D
Spectrum: Scan 2267 (9.08)
Location of Maximum: 95.10
Number of points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	286	57.10	1057	75.10	23072	103.90	182
37.10	2426	59.90	346	76.00	1897	116.90	153
38.10	1787	61.10	2336	78.10	282	117.80	159
39.10	722	62.00	1971	78.90	1055	129.70	176
40.10	173	63.00	1702	80.00	287	140.90	485
43.90	319	64.00	264	81.00	898	142.90	285
45.10	406	67.20	171	87.00	2113	174.00	43912
47.20	858	68.00	4436	88.00	2700	175.00	3659
48.00	362	69.10	4684	92.00	1244	176.00	42800
49.10	2216	70.00	272	93.10	1978	177.00	2874
50.10	8753	71.90	278	94.00	4524		
51.10	3147	73.00	2162	95.10	47200		
56.00	458	74.10	7379	96.10	3397		

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042412.D Page 1

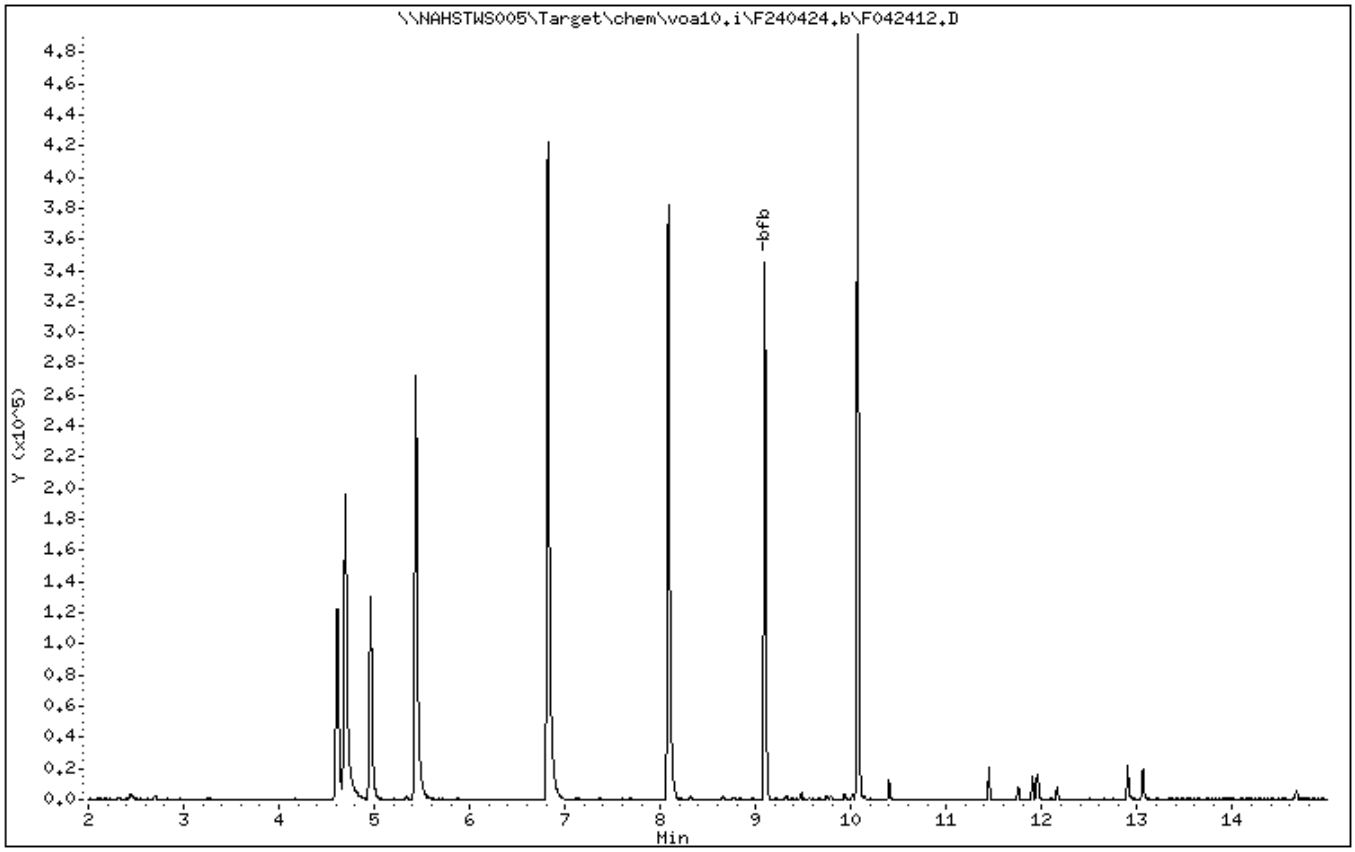
Date : 24-APR-2024 13:23

Client ID: BFB Instrument: voa10.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042412.D

Date : 24-APR-2024 13:23

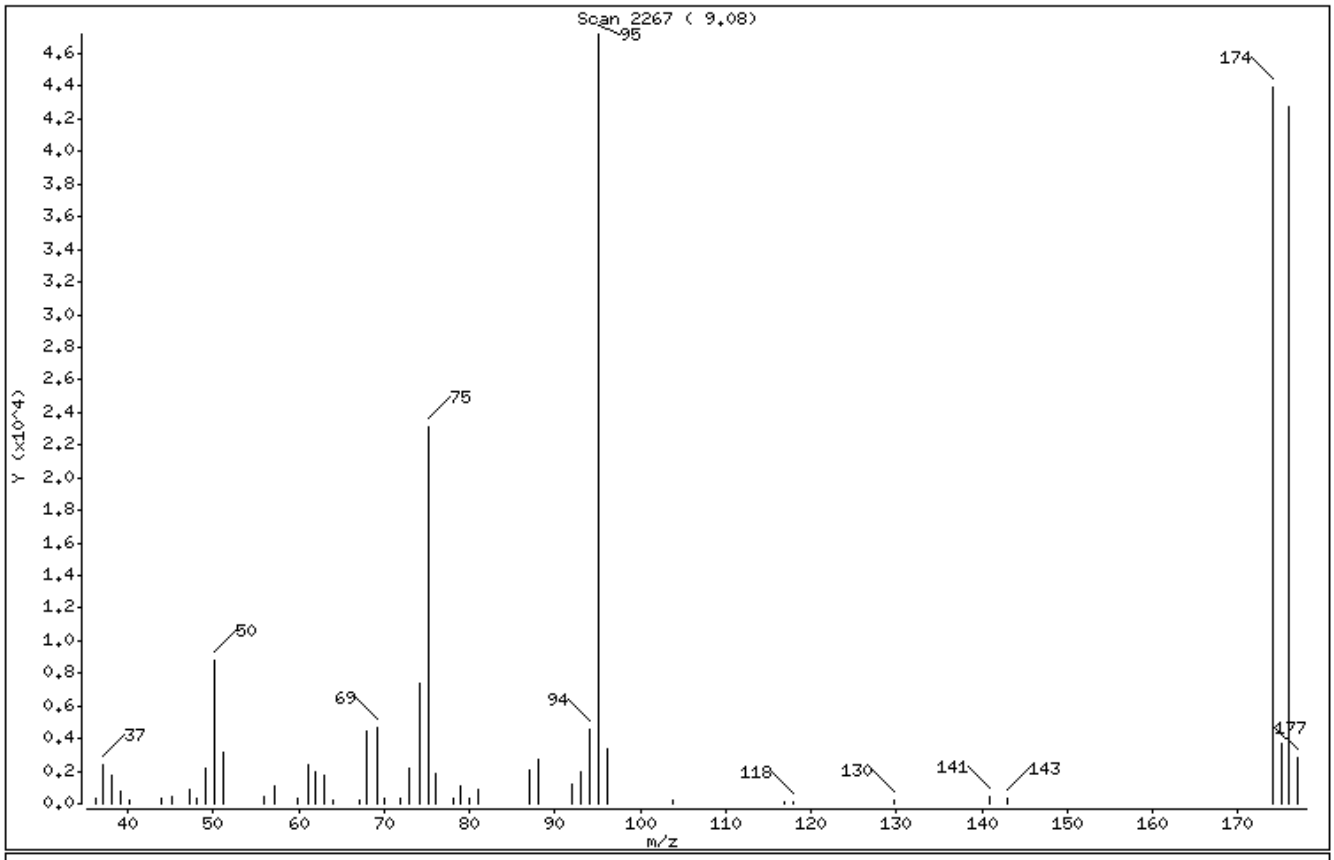
Client ID: BFB Instrument: voa10.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

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	18.54
75	30.00 - 60.00% of mass 95	48.88
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.03
175	5.00 - 9.00% of mass 174	7.75 (8.33)
176	95.00 - 101.00% of mass 174	90.68 (97.47)
177	5.00 - 9.00% of mass 176	6.09 (6.71)

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042412.D

Date : 24-APR-2024 13:23

Client ID: BFB Instrument: voa10.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25

Data File: F042412.D
Spectrum: Scan 2267 (9.08)
Location of Maximum: 95.10
Number of points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	286	57.10	1057	75.10	23072	103.90	182
37.10	2426	59.90	346	76.00	1897	116.90	153
38.10	1787	61.10	2336	78.10	282	117.80	159
39.10	722	62.00	1971	78.90	1055	129.70	176
40.10	173	63.00	1702	80.00	287	140.90	485
43.90	319	64.00	264	81.00	898	142.90	285
45.10	406	67.20	171	87.00	2113	174.00	43912
47.20	858	68.00	4436	88.00	2700	175.00	3659
48.00	362	69.10	4684	92.00	1244	176.00	42800
49.10	2216	70.00	272	93.10	1978	177.00	2874
50.10	8753	71.90	278	94.00	4524		
51.10	3147	73.00	2162	95.10	47200		
56.00	458	74.10	7379	96.10	3397		

Data File : \\nahstws005\target\chem\voa10.i\f240424.b\f042412.d
Inj Date : 24-APR-2024 13:23
InstruID : voa10.i
LabSampID : BFB

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 1
Report Date: 05-Jun-2024 15:09

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 24-APR-2024 13:44
Operator : TS Inst ID: voa10.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V10;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa10.i\F240424.b\8260W.m
Meth Date : 05-Jun-2024 15:08 r.patel Quant Type: ISTD
Cal Date : 24-APR-2024 12:41 Cal File: F042410.D
Als bottle: 13 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_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	4.691	4.691	(1.000)	200931	50.0000	
2 Dichlorodifluoromethane	85	1.148	1.149	(0.245)	61914	49.8624	49.86
3 Chloromethane	50	1.295	1.295	(0.276)	97412	56.4242	56.42
4 Propionitrile	54	4.151	4.151	(0.885)	128344	546.324	546.32
5 Vinyl Chloride	62	1.355	1.351	(0.289)	87084	51.4411	51.44
6 Bromomethane	94	1.580	1.572	(0.337)	36373	47.4701	47.47
7 Chloroethane	64	1.658	1.655	(0.354)	53611	52.3562	52.35
8 Trichlorofluoromethane	101	1.853	1.850	(0.395)	103874	49.8018	49.80
9 Acrolein	56	3.169	3.169	(0.676)	62449	112.337	112.33
10 Acetone	43	2.314	2.314	(0.493)	58352	114.812	114.81
11 1,1-Dichloroethene	96	2.266	2.266	(0.483)	66841	48.0813	48.08
12 Isobutyl Alcohol	43	5.160	5.160	(1.100)	277600	1143.19	1143.18
13 Acetonitrile	39	2.584	2.584	(0.551)	99757	416.660	416.65
14 Allyl Chloride	41	2.584	2.584	(0.551)	242000	57.0856	57.08(M)
15 Iodomethane	142	2.393	2.386	(0.510)	106794	81.6624	81.66
16 Acrylonitrile	53	2.929	2.933	(0.624)	73781	118.795	118.79(M)
17 Methylene Chloride	84	2.697	2.697	(0.575)	78447	49.8311	49.83
18 Methyl tert-butyl ether	73	2.978	2.978	(0.635)	275778	59.4353	59.43(M)
19 Carbon Disulfide	76	2.449	2.449	(0.522)	430298	104.845	104.84
20 trans-1,2-Dichloroethene	96	2.963	2.963	(0.632)	82587	59.2504	59.25

21 Vinyl Acetate	43	4.189	4.193 (0.893)	100385	112.475	112.47
22 1,1-Dichloroethane	63	3.394	3.394 (0.724)	140206	52.8272	52.82

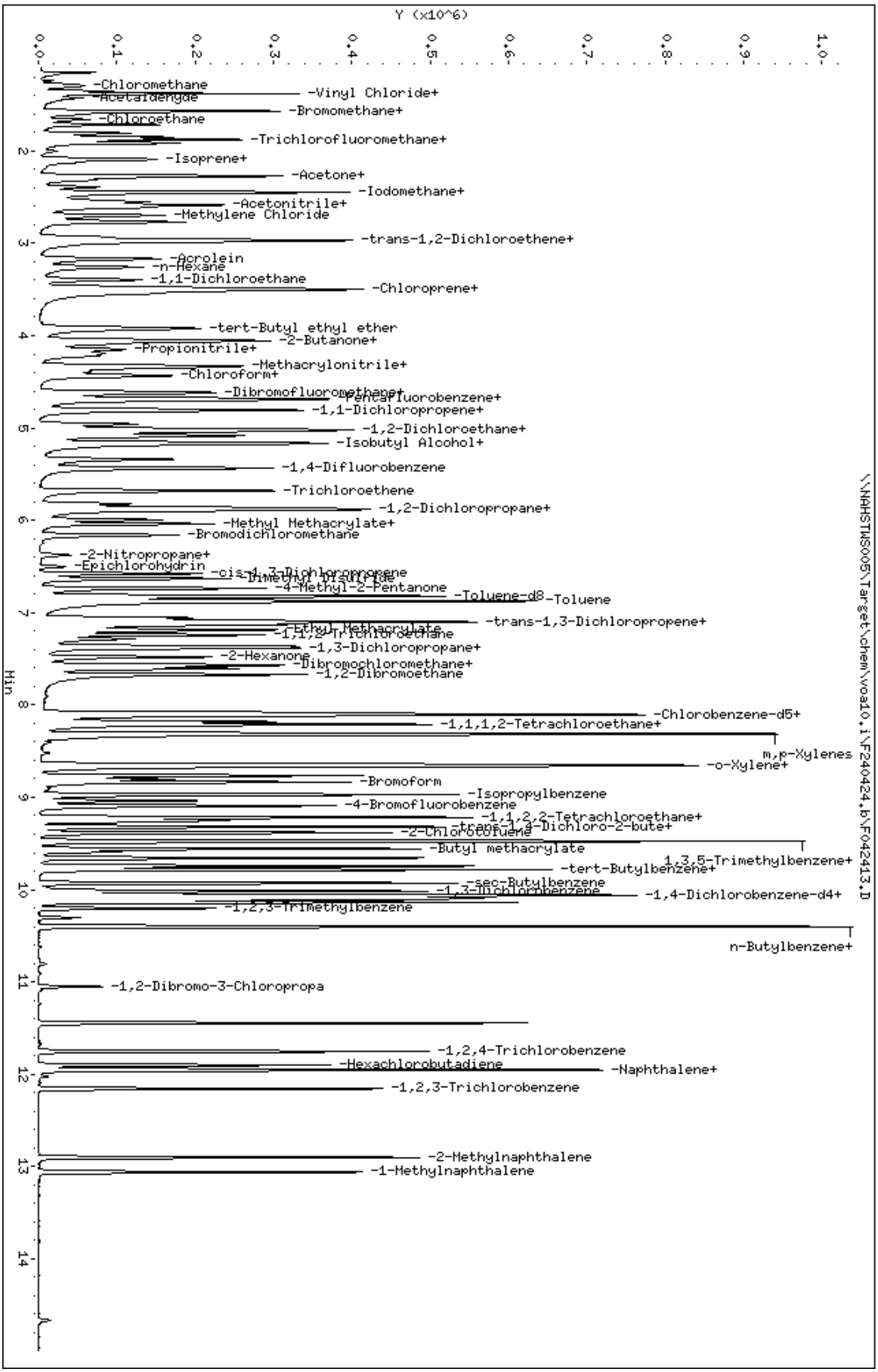
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.499	3.495	(0.746)	118204	50.0972	50.09
	24 2-Butanone	43	4.095	4.095	(0.873)	76070	104.502	104.50
	25 Methacrylonitrile	41	4.331	4.331	(0.923)	76142	54.7001	54.70
	26 2,2-Dichloropropane	77	4.054	4.054	(0.864)	103547	47.7058	47.70
	27 cis-1,2-Dichloroethene	96	4.057	4.058	(0.865)	81972	50.8478	50.84
	28 Chloroform	83	4.436	4.432	(0.946)	132686	50.8513	50.85
	29 Bromochloromethane	128	4.327	4.328	(0.922)	41038	51.8149	51.81
$	30 Dibromofluoromethane	113	4.608	4.609	(0.982)	72647	48.3853	48.38
	31 1,1,1-Trichloroethane	97	4.623	4.627	(0.986)	112668	48.8194	48.81
	32 1,1-Dichloropropene	75	4.811	4.807	(0.885)	103566	47.0765	47.07
	33 1,2-Dichloroethane	62	5.040	5.040	(0.927)	104700	50.8027	50.80
	34 Carbon Tetrachloride	117	4.803	4.804	(0.883)	96110	50.8825	50.88
$	35 1,2-Dichloroethane-d4	65	4.961	4.961	(1.058)	85813	48.9304	48.93
*	36 1,4-Difluorobenzene	114	5.437	5.433	(1.000)	260936	50.0000	
	37 Benzene	78	5.021	5.021	(0.923)	321986	51.1920	51.19
	38 Trichloroethene	130	5.681	5.677	(1.045)	85884	48.3652	48.36
	39 Bromodichloromethane	83	6.157	6.157	(1.132)	100667	53.8992	53.89
	40 Methyl Methacrylate	41	6.040	6.041	(1.288)	91099	54.5516	54.55
	41 2-Chloroethylvinyl ether	63	6.438	6.442	(1.184)	3928	119.878	119.87(M)
	42 1,2-Dichloropropane	63	5.890	5.887	(1.083)	86774	53.4458	53.44
	43 2-Nitropropane	43	6.374	6.378	(1.359)	25230	50.4504	50.45
	44 Dibromomethane	93	5.992	5.992	(1.102)	46904	52.1949	52.19
	45 4-Methyl-2-Pentanone	43	6.734	6.738	(0.833)	200807	114.265	114.26
	46 cis-1,3-Dichloropropene	75	6.580	6.577	(1.210)	108732	53.3819	53.38
*	47 Chlorobenzene-d5	117	8.083	8.084	(1.000)	227447	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	295497	49.8645	49.86
	49 Ethyl Methacrylate	69	7.191	7.191	(1.323)	138705	58.3611	58.36
	50 Toluene	91	6.880	6.880	(0.851)	338094	50.8410	50.84
	51 trans-1,3-Dichloropropene	75	7.083	7.083	(1.303)	88036	47.8690	47.86
	52 2-Hexanone	43	7.480	7.480	(0.925)	137452	102.777	102.77
	53 1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	62098	52.5886	52.58
	54 1,3-Dichloropropane	76	7.386	7.386	(0.914)	122866	50.3000	50.29
	55 Dibromochloromethane	129	7.577	7.578	(0.937)	80044	53.4691	53.46
	56 Tetrachloroethene	164	7.364	7.364	(0.911)	71856	52.2646	52.26
	57 1,2-Dibromoethane	107	7.671	7.671	(0.949)	53671	45.7439	45.74
	58 1-Chlorohexane	55	8.106	8.106	(1.491)	76580	51.8743	51.87
	59 Chlorobenzene	112	8.110	8.106	(1.003)	217738	49.8025	49.80
	60 1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	73931	52.7726	52.77
	61 Ethylbenzene	106	8.211	8.211	(1.016)	112833	51.4620	51.46
	62 m,p-Xylenes	106	8.316	8.316	(1.029)	283213	102.794	102.79
	63 o-Xylene	106	8.649	8.650	(1.070)	139488	50.9497	50.94
	64 Styrene	104	8.664	8.661	(1.072)	238941	53.4034	53.40
	66 Bromoform	173	8.807	8.811	(1.089)	61948	48.1223	48.12
	67 Isopropylbenzene	105	8.972	8.968	(1.110)	341868	53.1166	53.11
	68 1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	102155	55.6949	55.69
$	69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	111211	54.2404	54.24
*	70 1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	115508	50.0000	
	71 1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	100149	54.2236	54.22
	72 trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	17102	47.9938	47.99
	73 n-Propylbenzene	91	9.321	9.321	(0.926)	374132	55.7369	55.73
	74 Bromobenzene	156	9.216	9.216	(0.915)	98943	51.5141	51.51
	75 1,3,5-Trimethylbenzene	105	9.470	9.471	(0.940)	281880	54.7880	54.78

76	2-Chlorotoluene	91	9.384	9.384 (0.932)	233452	53.2705	53.27
77	4-Chlorotoluene	91	9.478	9.478 (0.941)	266581	53.4726	53.47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.744	9.744	(0.968)	244789	58.6362	58.63
79	1,2,4-Trimethylbenzene	105	9.785	9.786	(0.972)	291985	56.4908	56.49
81	sec-Butylbenzene	105	9.932	9.932	(0.986)	322651	59.1647	59.16
82	p-Isopropyltoluene	119	10.055	10.055	(0.999)	288067	56.5419	56.54
83	1,3-Dichlorobenzene	146	10.018	10.014	(0.995)	179232	53.6320	53.63
84	1,4-Dichlorobenzene	146	10.089	10.089	(1.002)	174340	49.7895	49.78
87	n-Butylbenzene	91	10.400	10.400	(1.033)	254927	57.8328	57.83
88	1,2-Dichlorobenzene	146	10.404	10.400	(1.033)	173944	51.6277	51.62
89	1,2-Dibromo-3-Chloropropane	155	11.052	11.053	(1.098)	15727	54.6045	54.60
90	1,2,4-Trichlorobenzene	180	11.753	11.754	(1.167)	137470	55.9037	55.90
91	Hexachlorobutadiene	225	11.903	11.904	(1.182)	66814	51.2946	51.29
92	Naphthalene	128	11.956	11.956	(1.187)	324874	52.5535	52.55
93	1,2,3-Trichlorobenzene	180	12.158	12.158	(1.207)	123787	55.0550	55.05
135	1,4-Dioxane	88	6.040	6.041	(1.288)	24517	995.754	995.75
130	Ethyl Acetate	43	4.189	4.193	(0.893)	100385	55.6664	55.66
136	n-Hexane	57	3.259	3.259	(0.695)	78394	47.2053	47.20
138	Freon TF	101	2.277	2.277	(0.485)	67507	47.9386	47.93
141	Cyclohexane	56	4.683	4.684	(0.998)	112076	50.5978	50.59
142	Tetrahydrofuran	42	4.395	4.395	(0.937)	33659	111.311	111.31
146	Methyl Acetate	43	2.610	2.614	(0.557)	131610	53.9460	53.94
147	Methylcyclohexane	55	5.861	5.861	(1.078)	129098	51.7782	51.77
149	Isopropyl alcohol	45	2.449	2.449	(0.522)	132627	1166.35	1166.34
151	4-Methyl-2-pentanol	45	7.101	7.102	(1.306)	593173	925.375	925.37
156	Diisopropyl ether	45	3.503	3.507	(0.747)	293834	54.6491	54.64
158	Dichlorofluoromethane	67	1.808	1.805	(0.386)	123171	54.2478	54.24
166	1,2,3-Trimethylbenzene	105	10.138	10.138	(1.007)	277743	54.3101	54.31
160	2-Methylnaphthalene	142	12.900	12.901	(1.281)	192205	50.5568	50.55
180	1-Methylnaphthalene	142	13.058	13.062	(1.297)	170295	52.5772	52.57
174	tert-Amyl methyl ether	73	5.171	5.171	(1.102)	258439	56.6344	56.63
175	tert-Butyl ethyl ether	59	3.922	3.923	(0.836)	256874	54.6735	54.67
140	1,3-Butadiene	54	1.377	1.377	(0.294)	88635	52.8122	52.81
189	n-Butyl acetate	43	7.607	7.608	(0.941)	165930	57.6659	57.66
86	Benzyl Chloride	91	10.400	10.400	(1.287)	254927	53.7403	53.74
178	Ethylene oxide	44	1.568	1.565	(0.334)	287177	117.031	117.03(M)
182	Epichlorohydrin	57	6.502	6.502	(1.196)	27370	206.633	206.63
185	Isoprene	39	2.101	2.097	(0.448)	25587	56.6896	56.68
150	Allyl alcohol	57	3.480	3.492	(0.742)	35176	1003.44	1003.44
162	Butyl acrylate	55	8.638	8.638	(1.069)	201594	51.4209	51.42
194	Acetaldehyde	44	1.426	1.426	(0.304)	44223	197.341	197.34(M)
131	Methyl Acrylate	55	4.219	4.219	(0.899)	78898	51.8506	51.85
133	Ethyl Acrylate	55	5.823	5.823	(1.241)	104182	55.3837	55.38
203	2-Ethylhexyl Acrylate	55	11.945	11.945	(1.186)	111554	52.9986	52.99(A)
204	2-Chloropropene	41	1.879	1.876	(0.401)	113969	56.2577	56.25(A)
163	Butyl methacrylate	41	9.557	9.557	(0.949)	134868	55.4484	55.44
167	Ethanol	45	2.003	2.007	(0.427)	22753	1125.37	1125.36
200	Dimethyl Disulfide	94	6.633	6.633	(0.821)	118862	50.6972	50.69
M 94	1,2-Dichloroethylene (total)	96				164559	110.098	110.09
M 95	Xylenes (total)	106				422701	153.743	153.74

QC Flag Legend

A - Target compound detected but, quantitated amount
    exceeded maximum amount.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa10,i\F240424,b\F042413.D
Date : 24-APR-2024 13:44
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10,i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 2

Date : 24-APR-2024 13:44

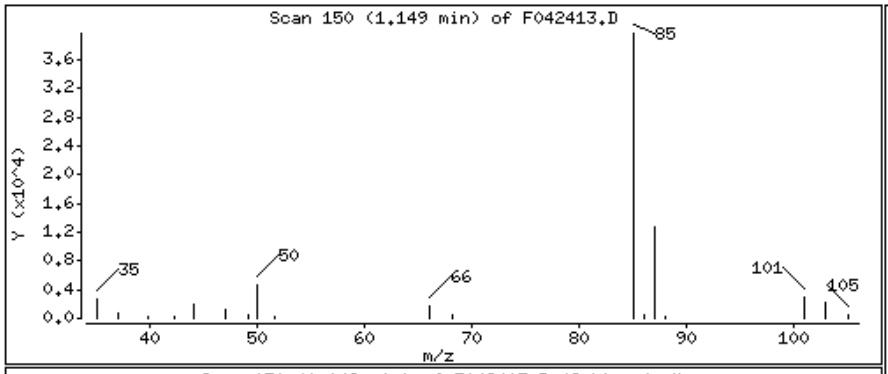
Client ID: VSTD050 Instrument: voa10.i

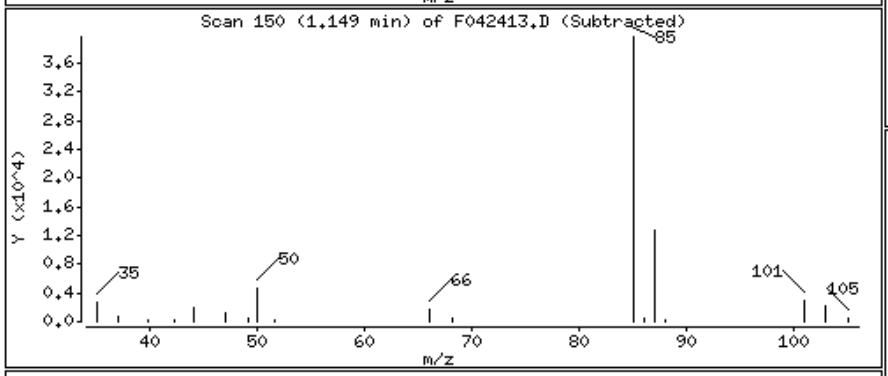
Sample Info: VSTD050;VSTD050;2;;ICV

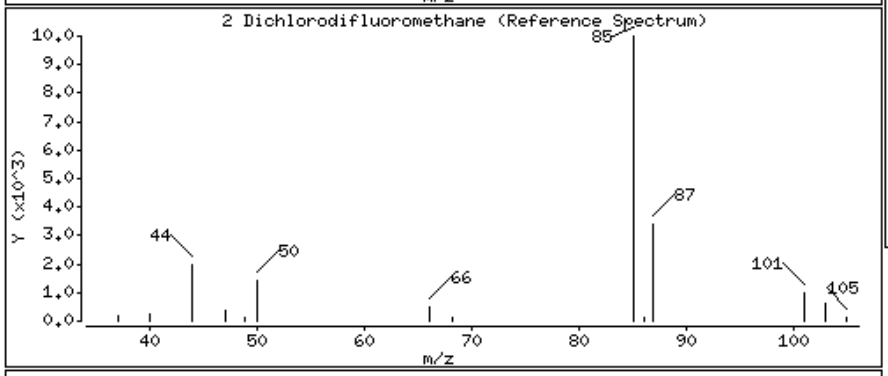
Purge Volume: 5.0 Operator: TS

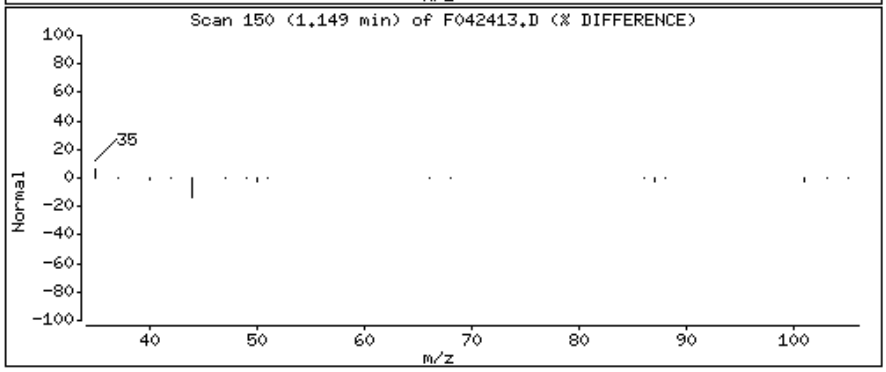
Column phase: DB624 Column diameter: 0.18

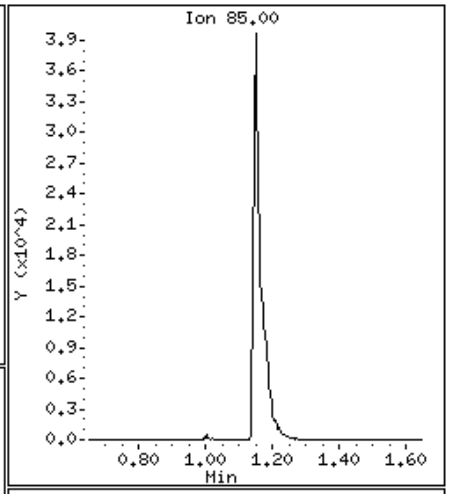
2 Dichlorodifluoromethane Concentration: 49.86 ug/l

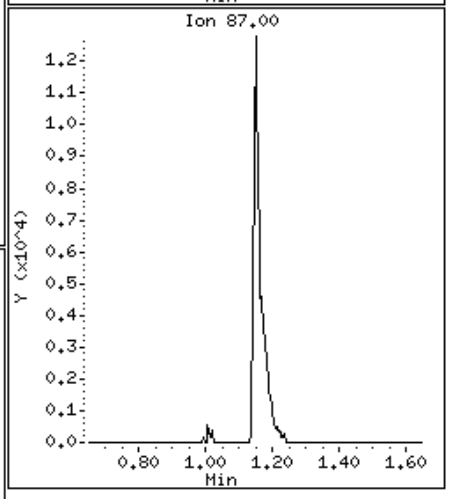












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 3

Date : 24-APR-2024 13:44

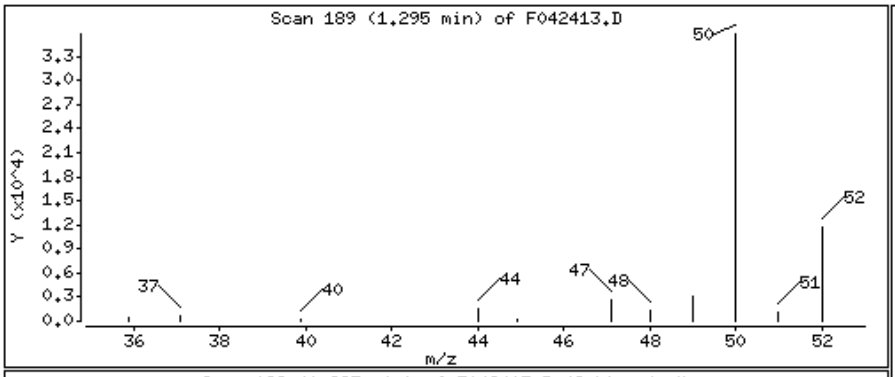
Client ID: VSTD050 Instrument: voa10.i

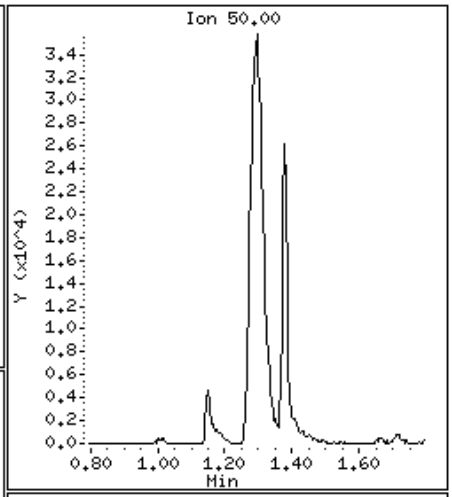
Sample Info: VSTD050;VSTD050;2;;ICV

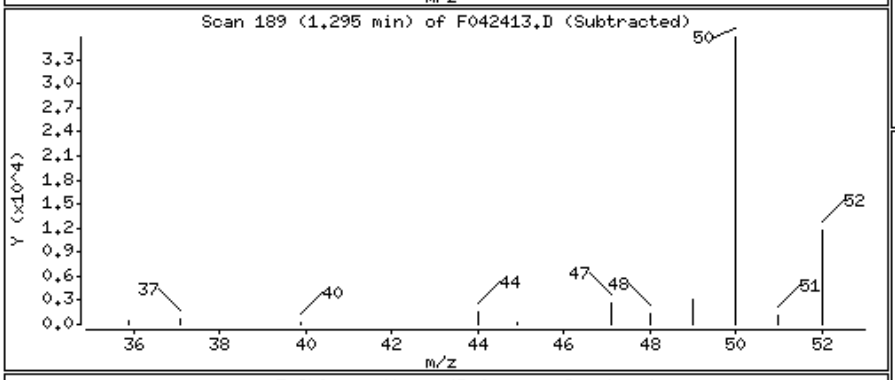
Purge Volume: 5.0 Operator: TS

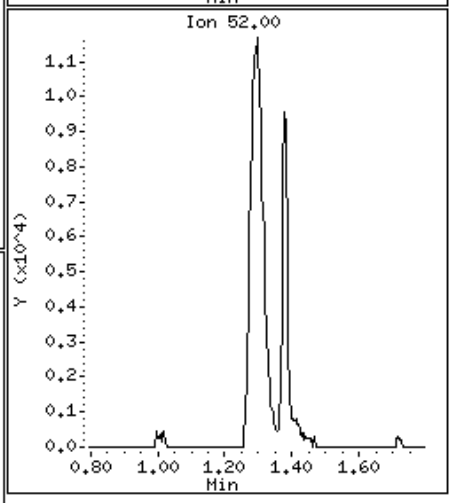
Column phase: DB624 Column diameter: 0.18

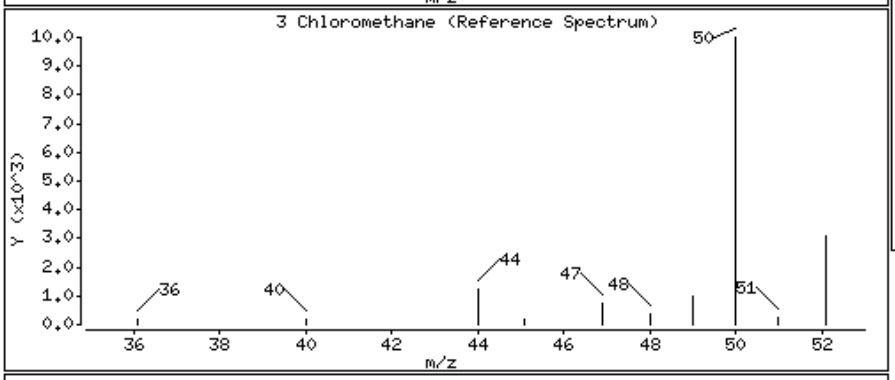
3 Chloromethane Concentration: 56.42 ug/l

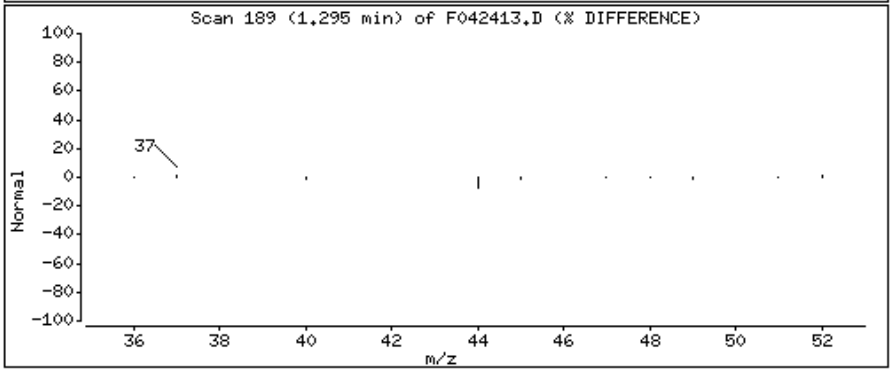












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 4

Date : 24-APR-2024 13:44

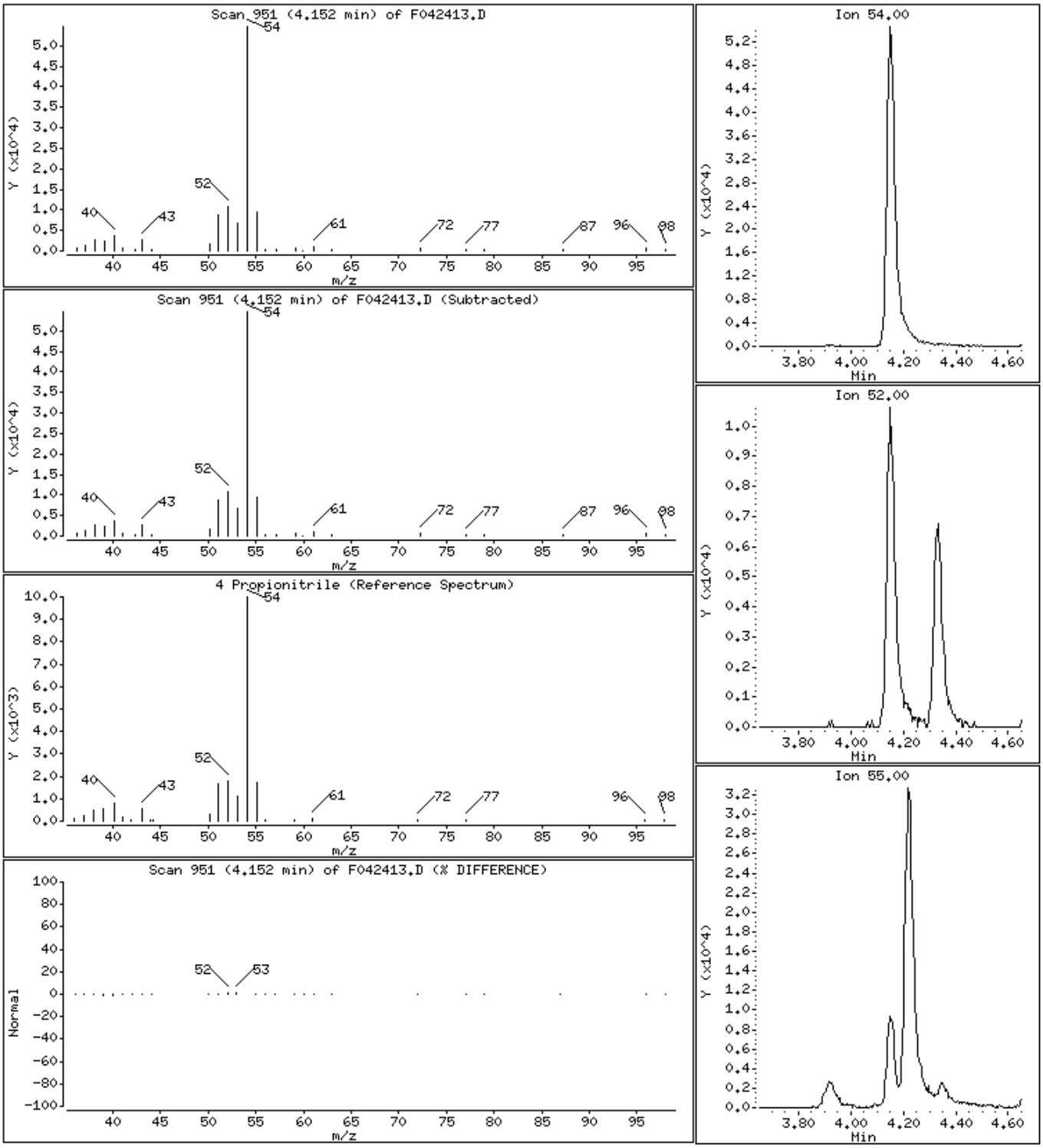
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

4 Propionitrile Concentration: 546.32 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 5

Date : 24-APR-2024 13:44

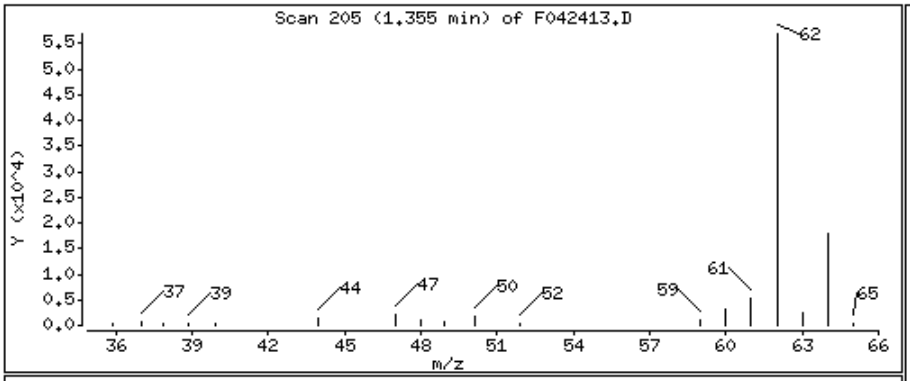
Client ID: VSTD050 Instrument: voa10.i

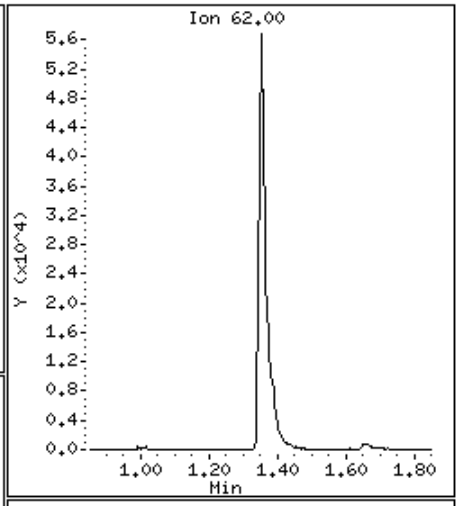
Sample Info: VSTD050;VSTD050;2;;ICV

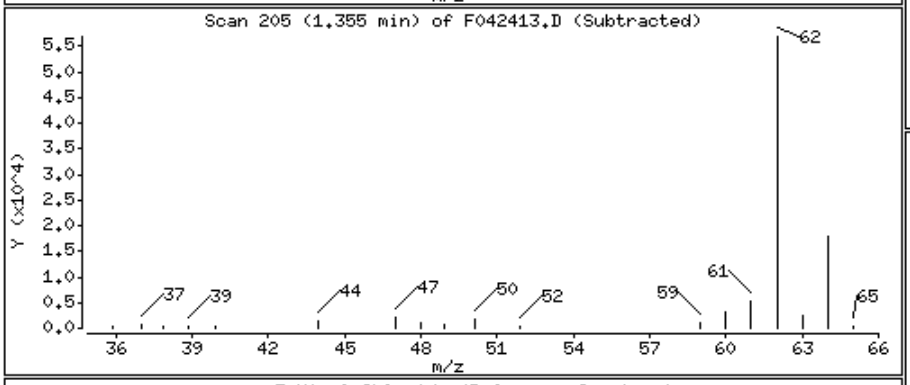
Purge Volume: 5.0 Operator: TS

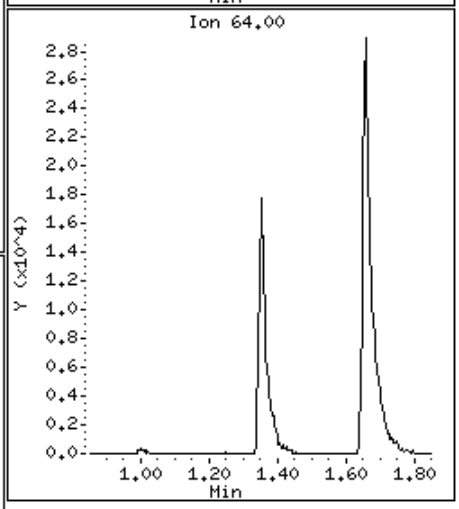
Column phase: DB624 Column diameter: 0.18

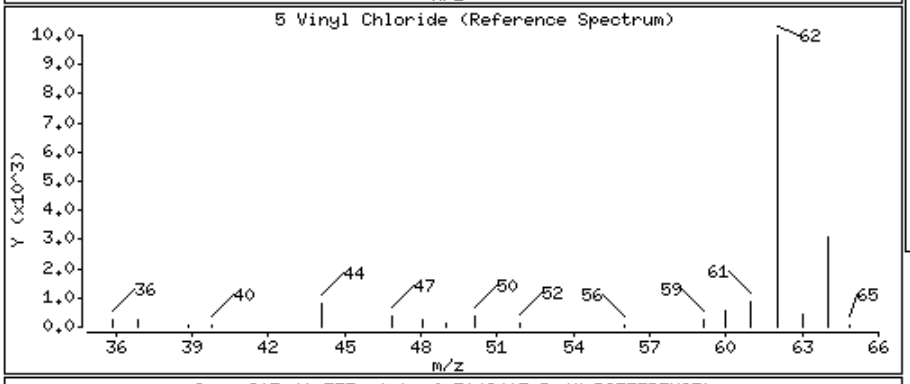
5 Vinyl Chloride Concentration: 51.44 ug/l

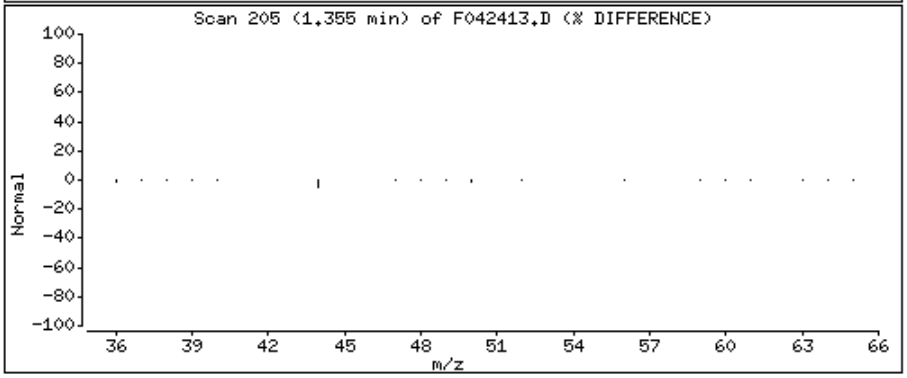












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 6

Date : 24-APR-2024 13:44

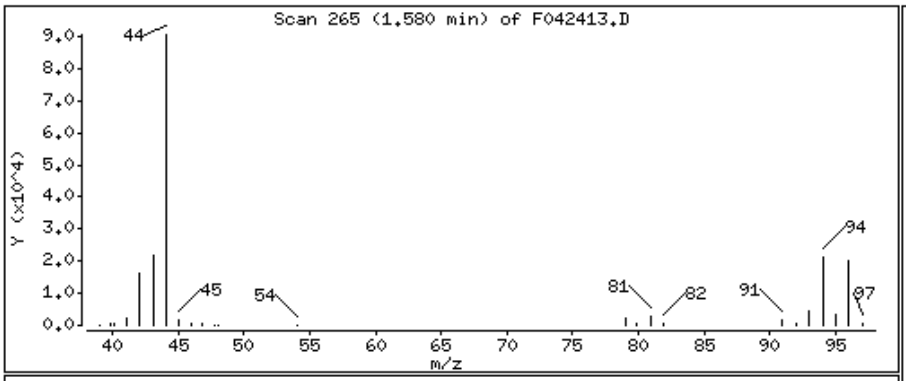
Client ID: VSTD050 Instrument: voa10.i

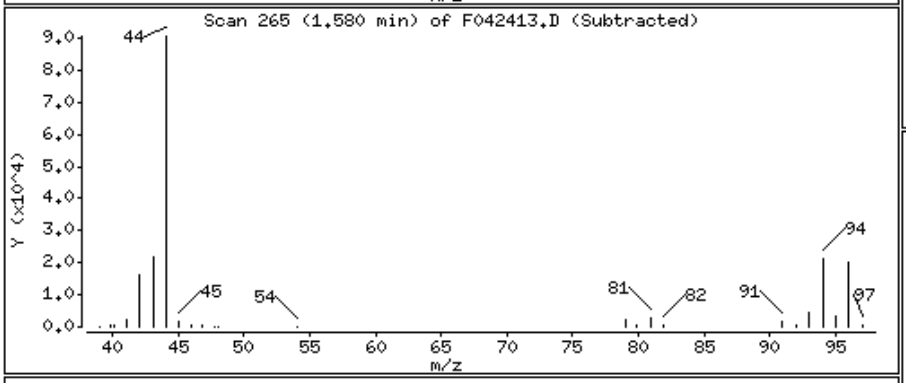
Sample Info: VSTD050;VSTD050;2;;ICV

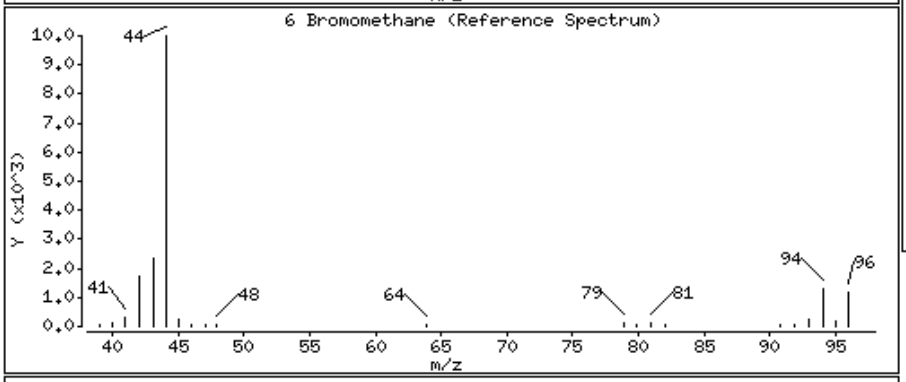
Purge Volume: 5.0 Operator: TS

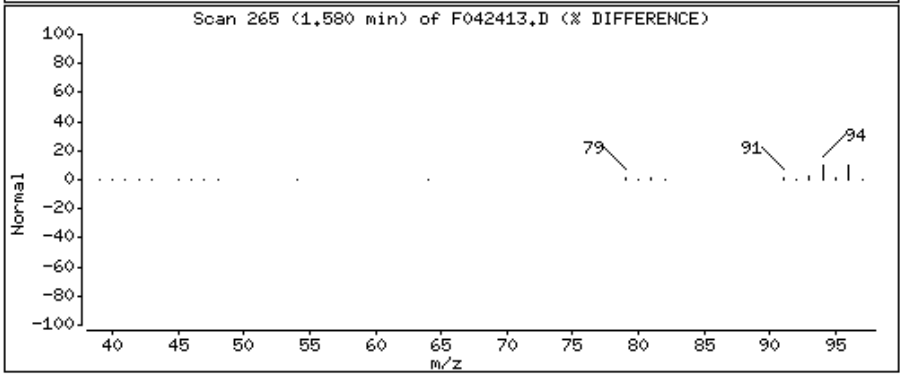
Column phase: DB624 Column diameter: 0.18

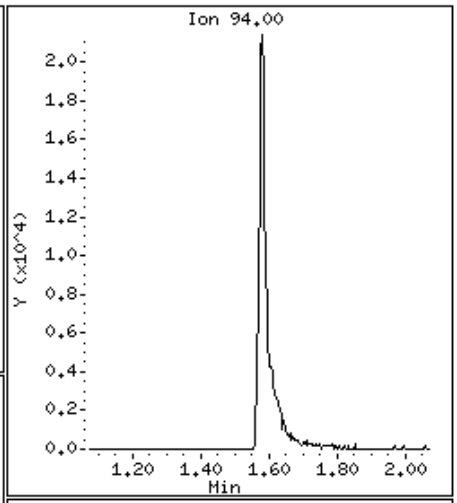
6 Bromomethane Concentration: 47.47 ug/l

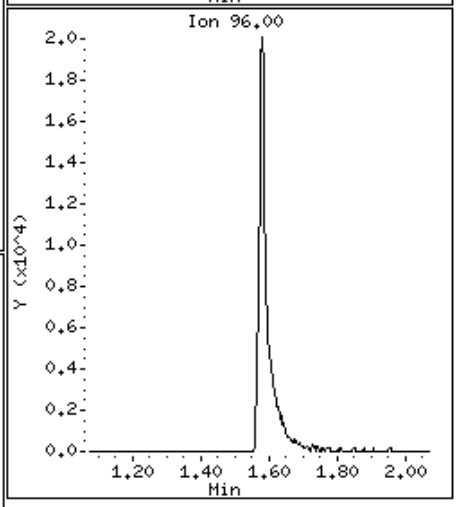












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 7

Date : 24-APR-2024 13:44

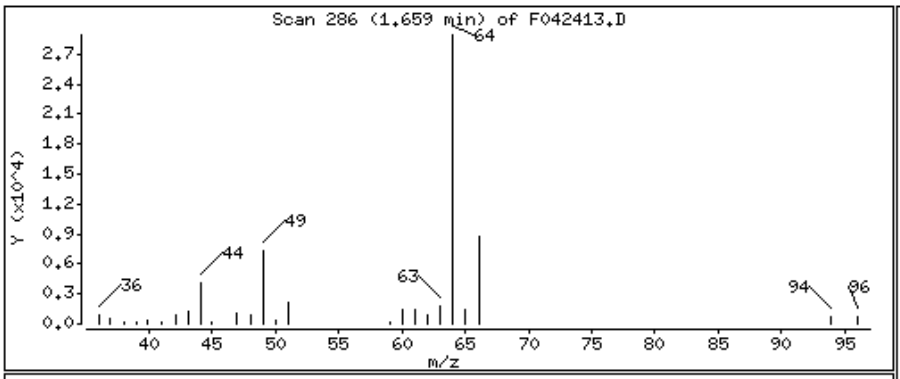
Client ID: VSTD050 Instrument: voa10.i

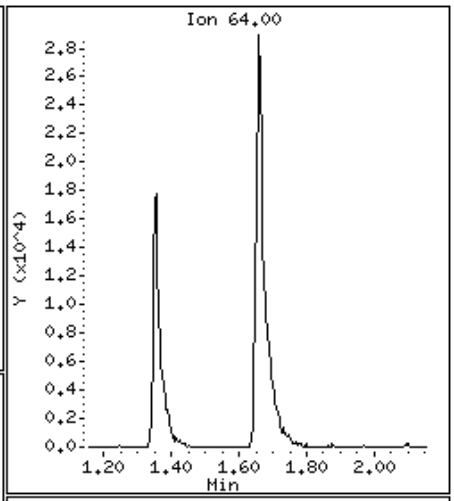
Sample Info: VSTD050;VSTD050;2;;ICV

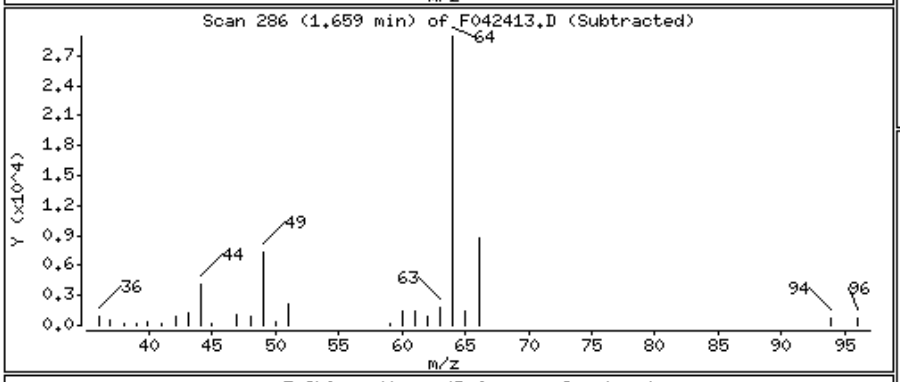
Purge Volume: 5.0 Operator: TS

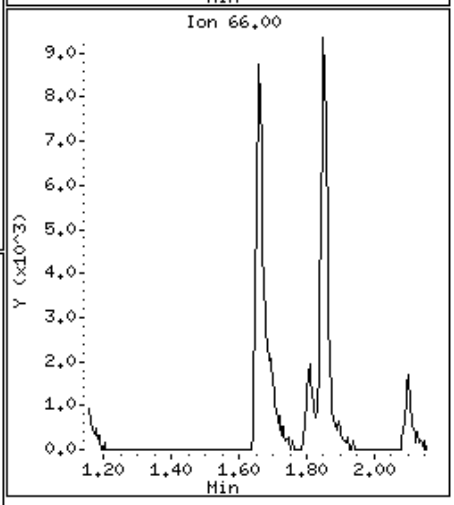
Column phase: DB624 Column diameter: 0.18

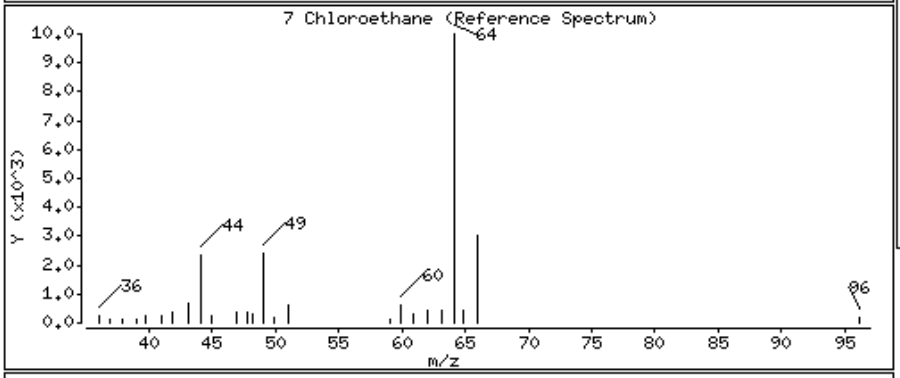
7 Chloroethane Concentration: 52.35 ug/l

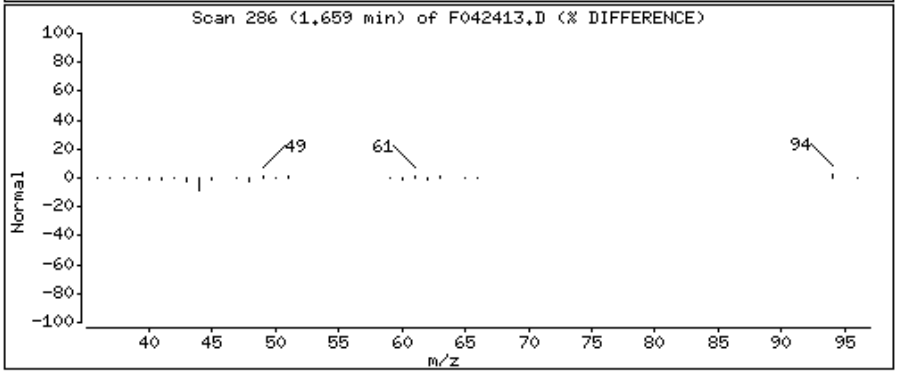












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 8

Date : 24-APR-2024 13:44

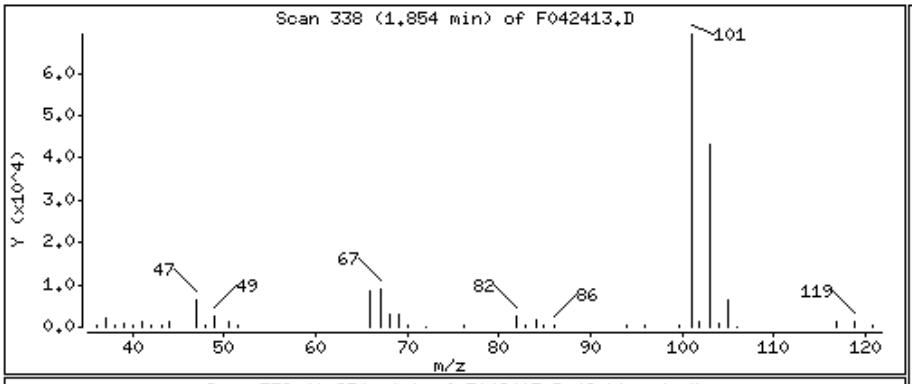
Client ID: VSTD050 Instrument: voa10.i

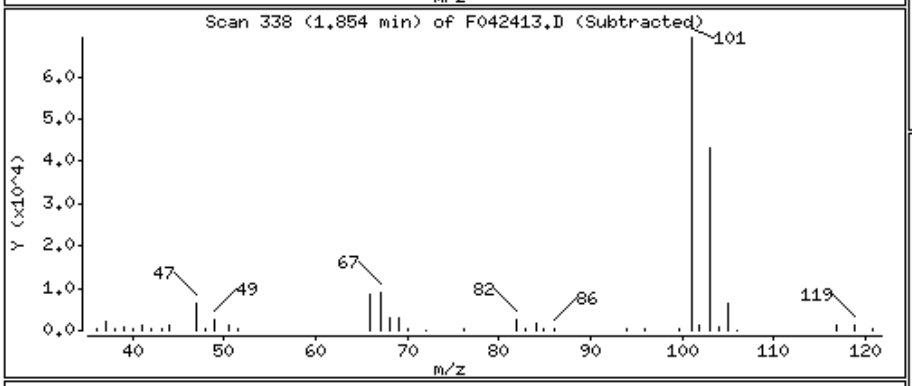
Sample Info: VSTD050;VSTD050;2;;ICV

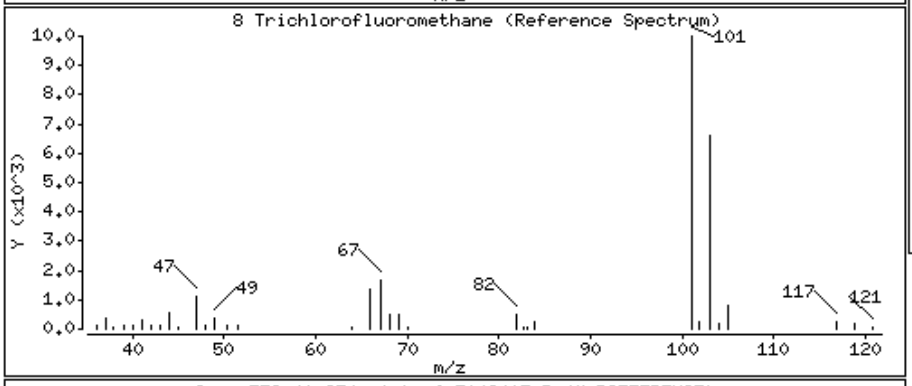
Purge Volume: 5.0 Operator: TS

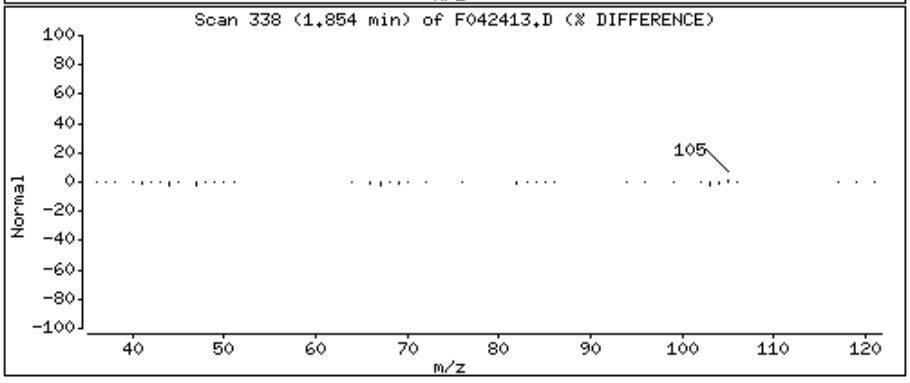
Column phase: DB624 Column diameter: 0.18

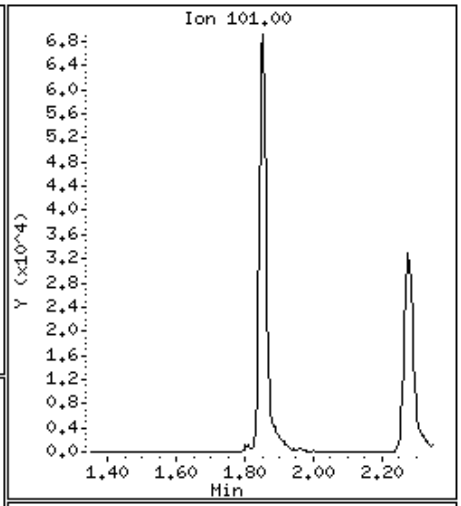
8 Trichlorofluoromethane Concentration: 49.80 ug/l

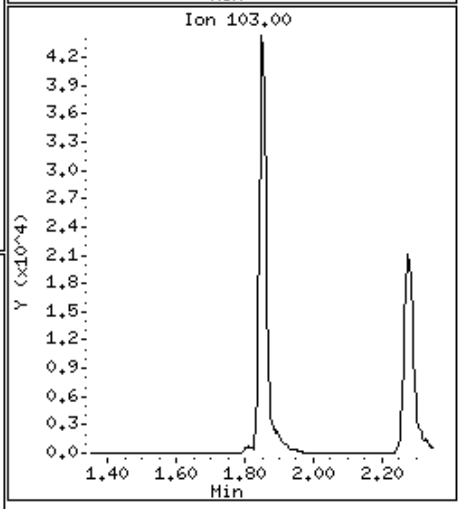












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 9

Date : 24-APR-2024 13:44

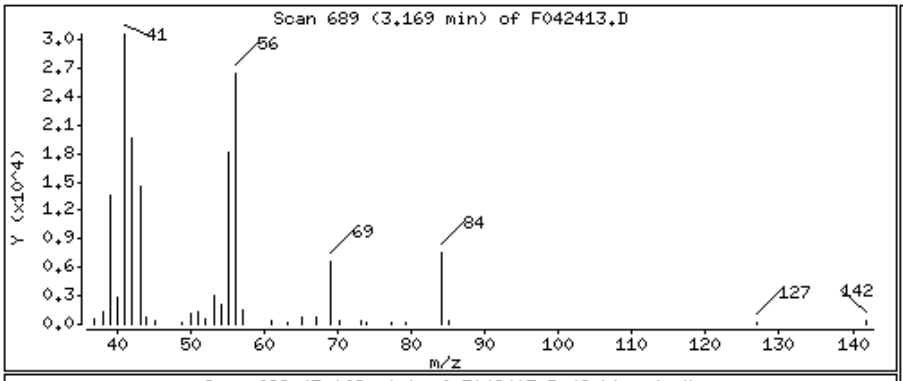
Client ID: VSTD050 Instrument: voa10.i

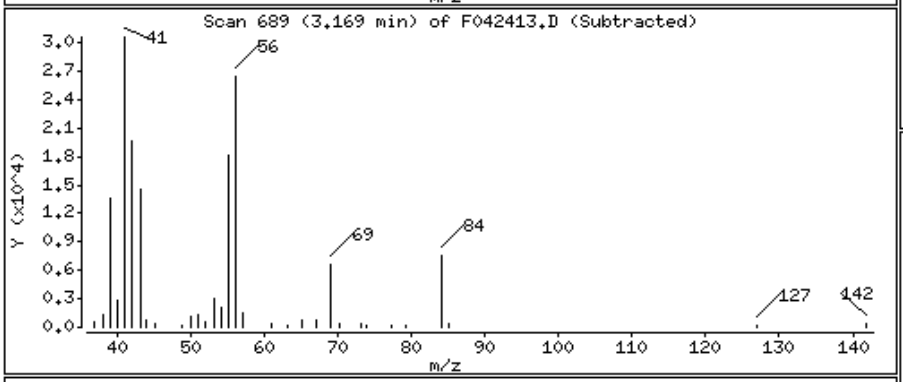
Sample Info: VSTD050;VSTD050;2;;ICV

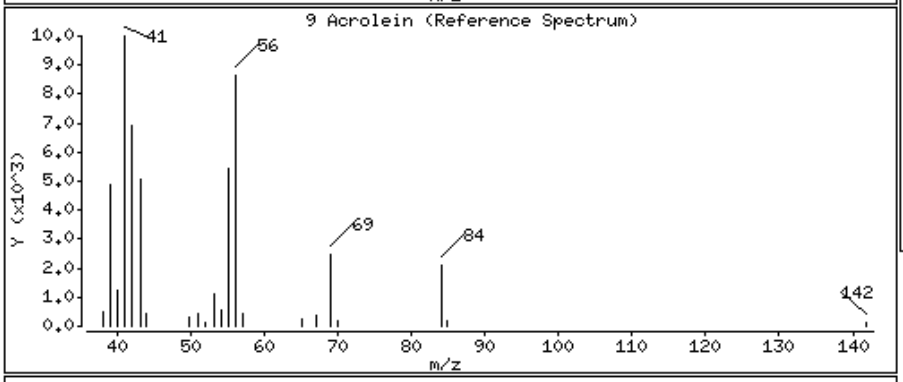
Purge Volume: 5.0 Operator: TS

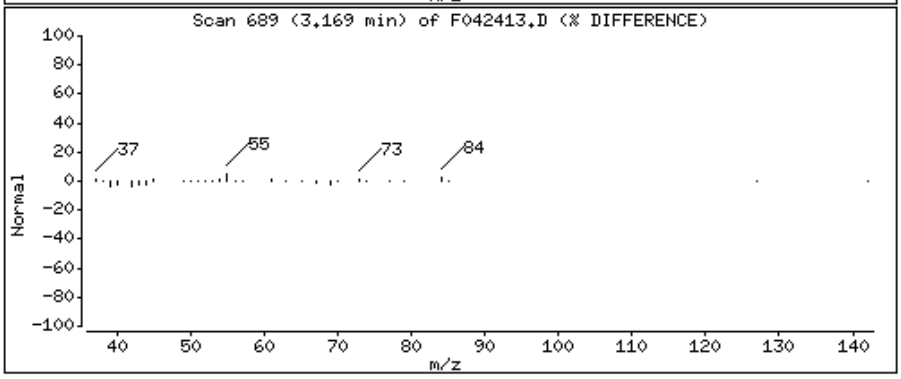
Column phase: DB624 Column diameter: 0.18

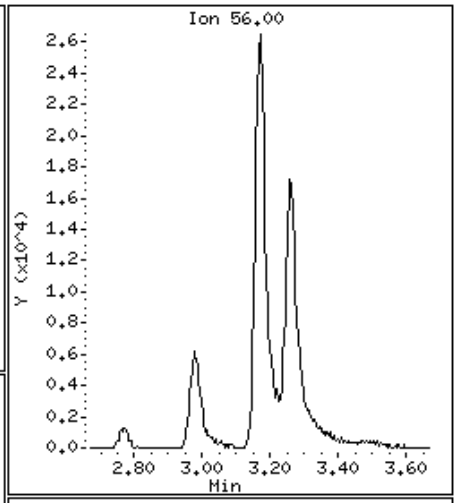
9 Acrolein Concentration: 112.33 ug/l

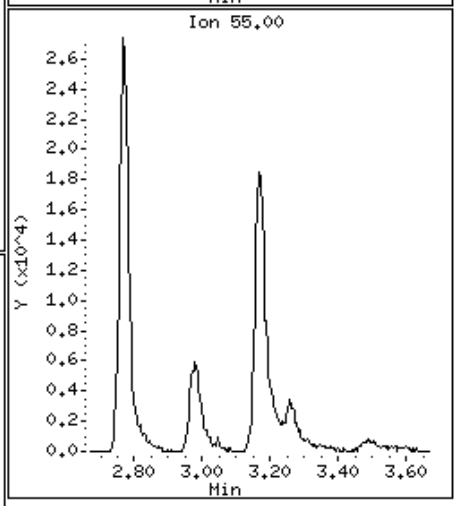












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 10

Date : 24-APR-2024 13:44

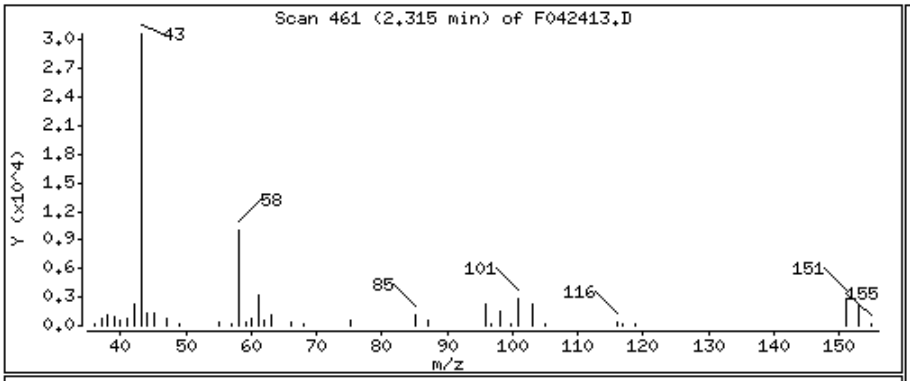
Client ID: VSTD050 Instrument: voa10.i

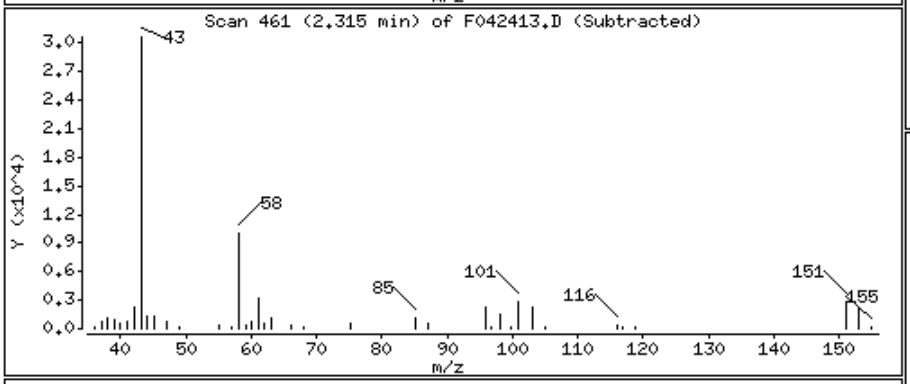
Sample Info: VSTD050;VSTD050;2;;ICV

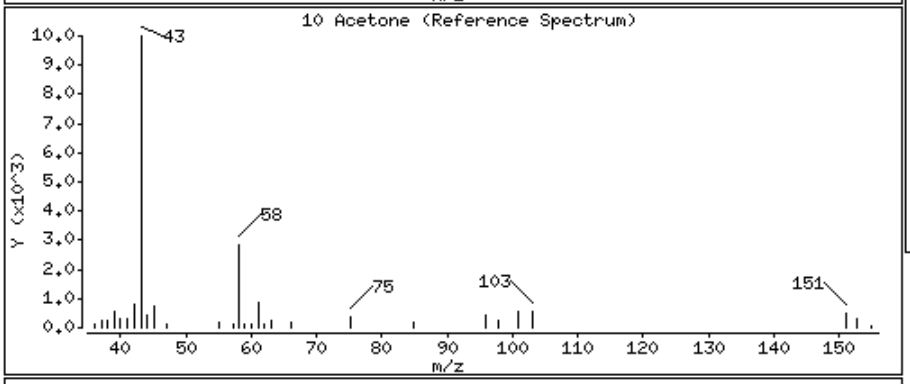
Purge Volume: 5.0 Operator: TS

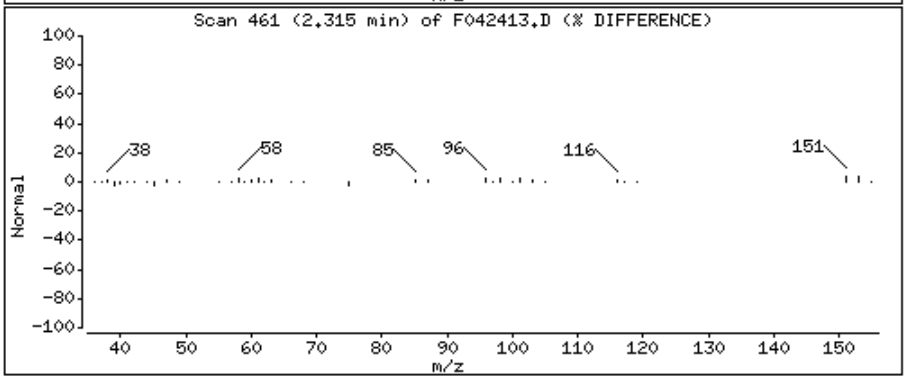
Column phase: DB624 Column diameter: 0.18

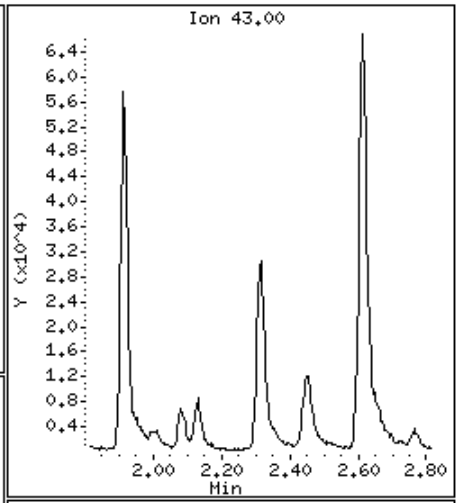
10 Acetone Concentration: 114.81 ug/l

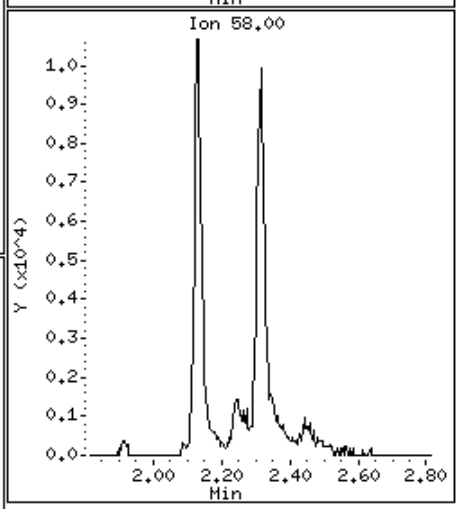












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

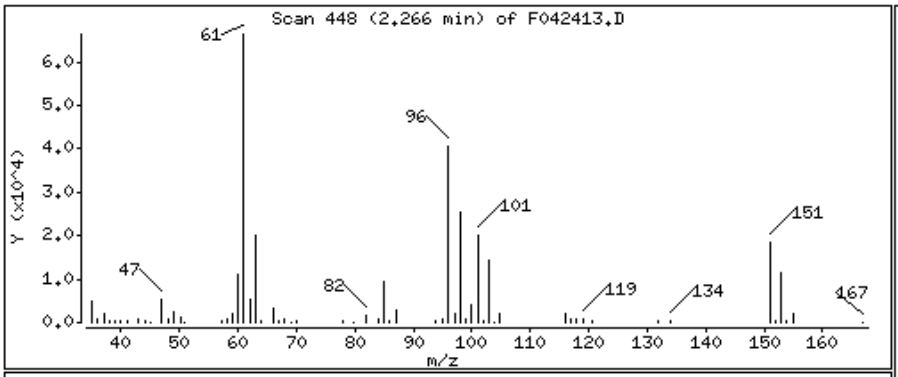
Operator: TS

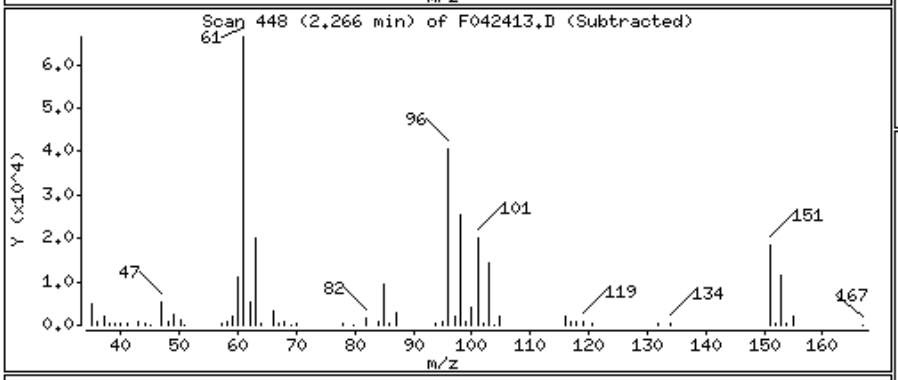
Column phase: DB624

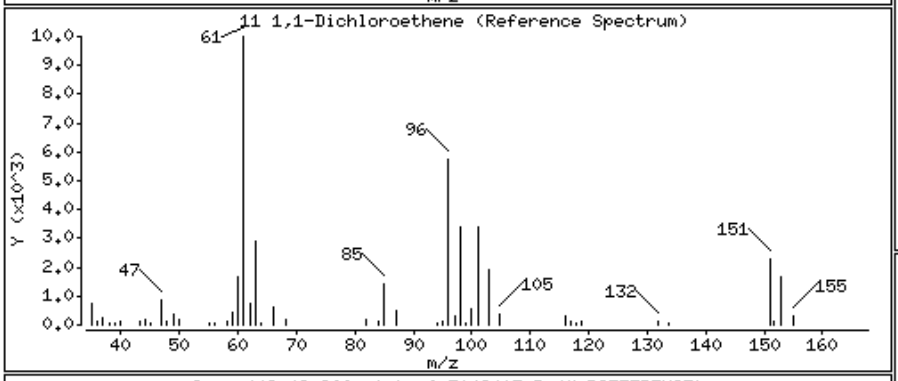
Column diameter: 0.18

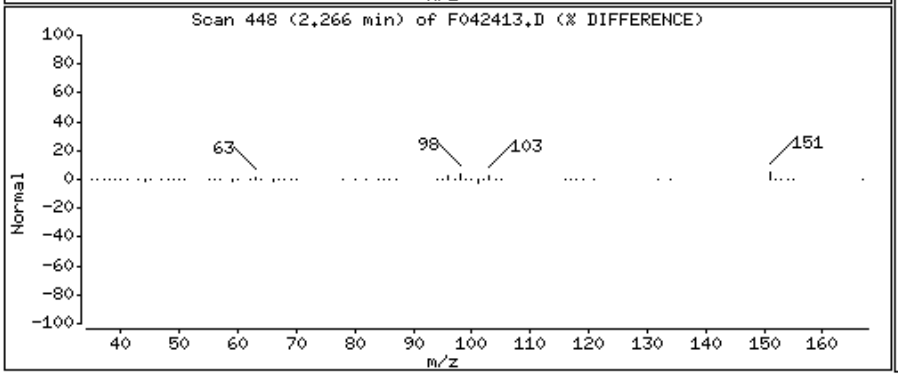
11 1,1-Dichloroethene

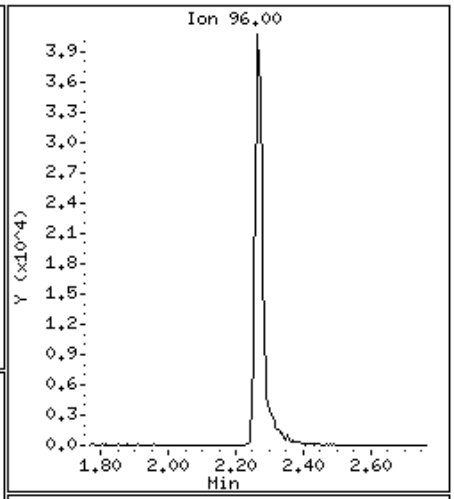
Concentration: 48.08 ug/l

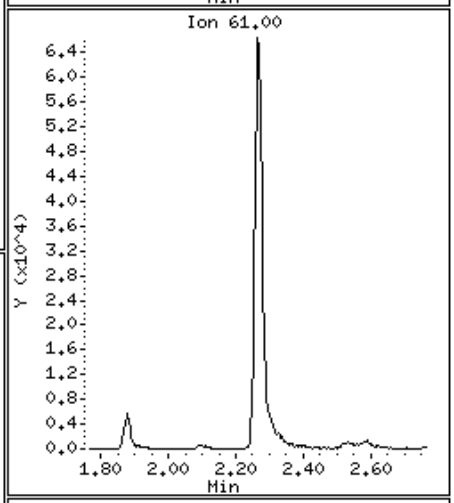


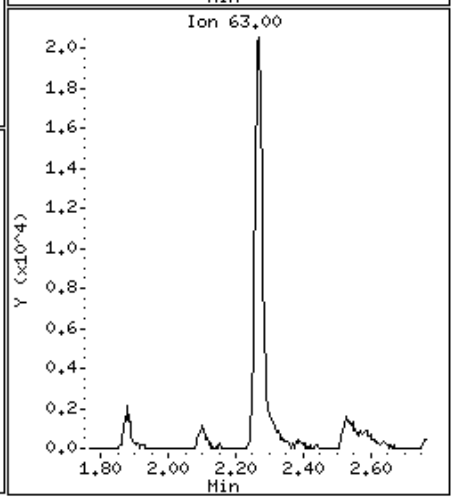












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 12

Date : 24-APR-2024 13:44

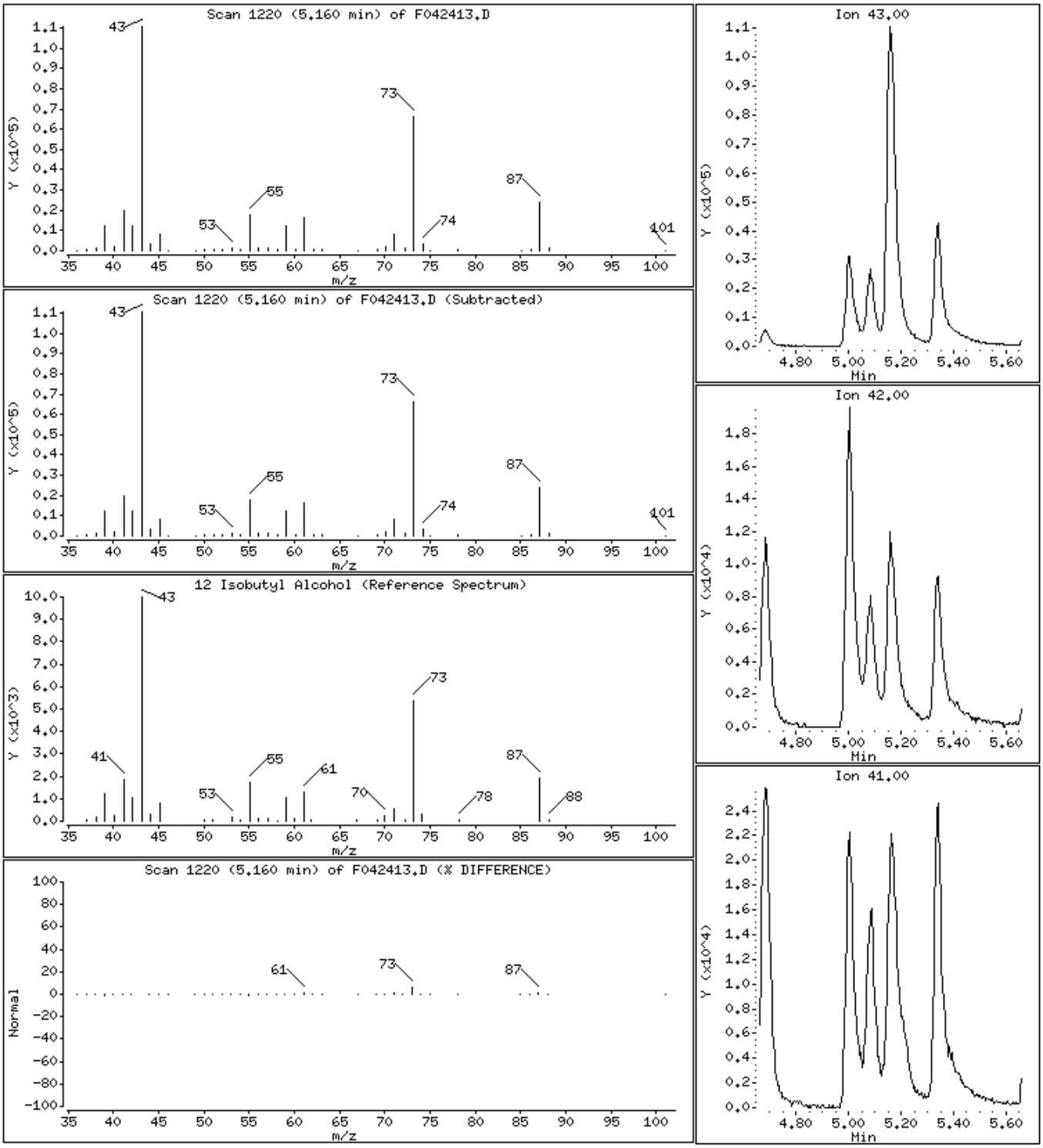
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

12 Isobutyl Alcohol Concentration: 1143.18 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 13

Date : 24-APR-2024 13:44

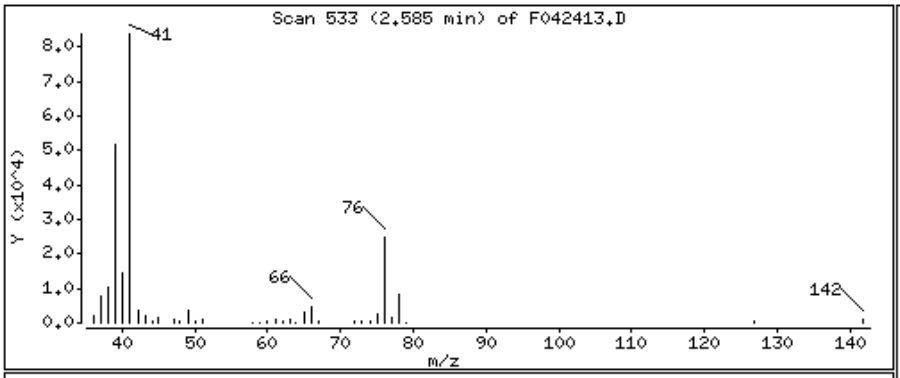
Client ID: VSTD050 Instrument: voa10.i

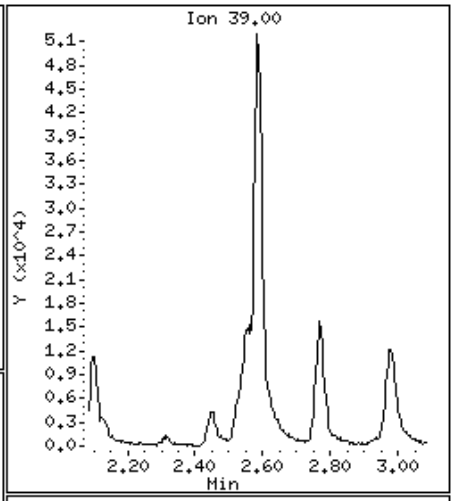
Sample Info: VSTD050;VSTD050;2;;ICV

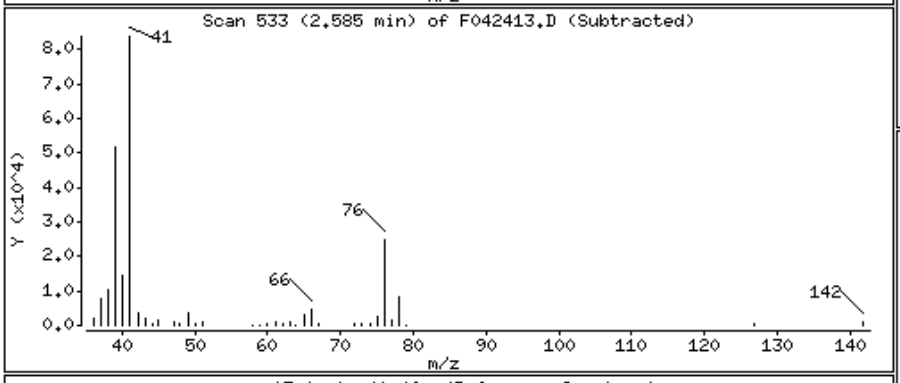
Purge Volume: 5.0 Operator: TS

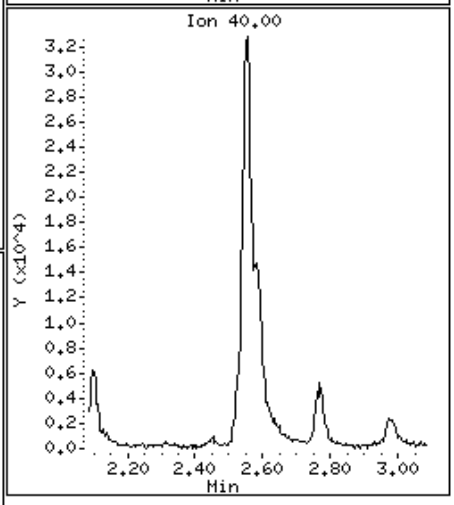
Column phase: DB624 Column diameter: 0.18

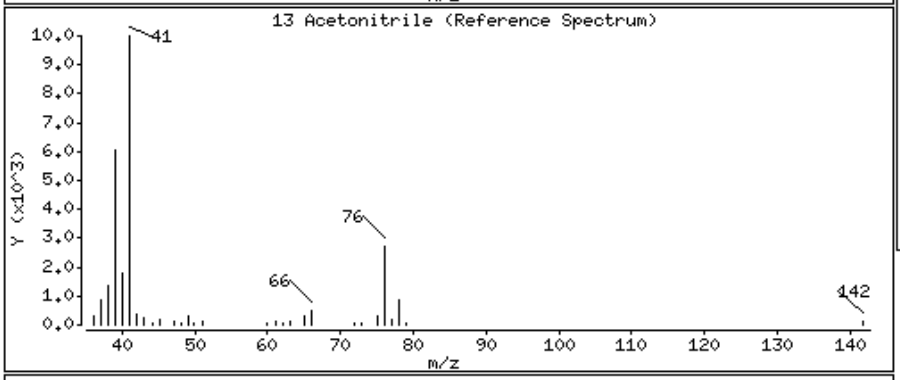
13 Acetonitrile Concentration: 416.65 ug/l

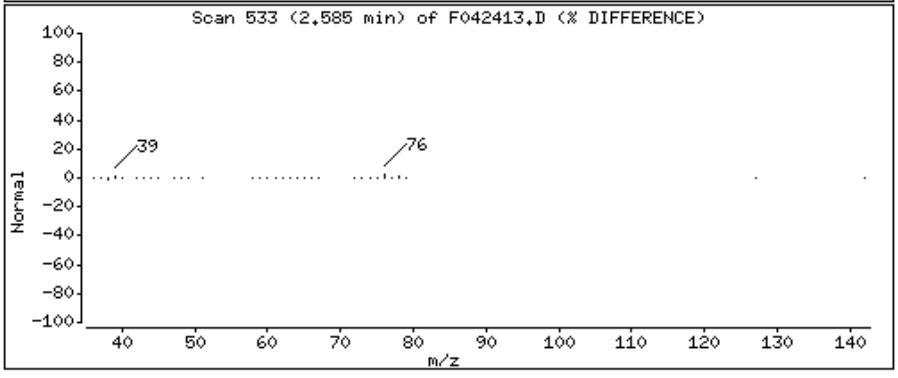












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 14

Date : 24-APR-2024 13:44

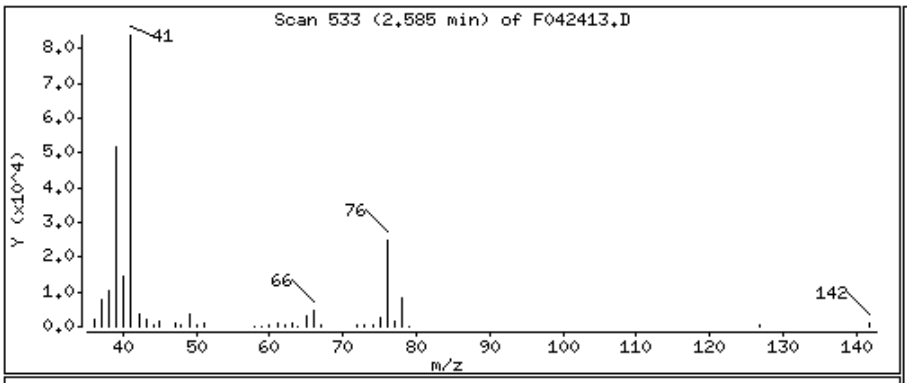
Client ID: VSTD050 Instrument: voa10.i

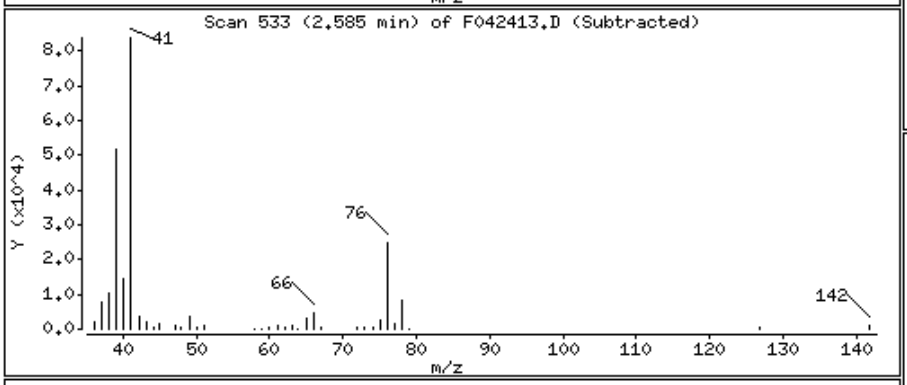
Sample Info: VSTD050;VSTD050;2;;ICV

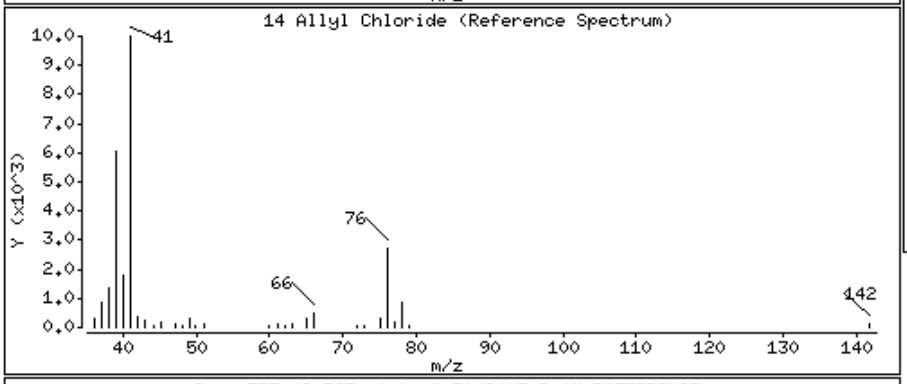
Purge Volume: 5.0 Operator: TS

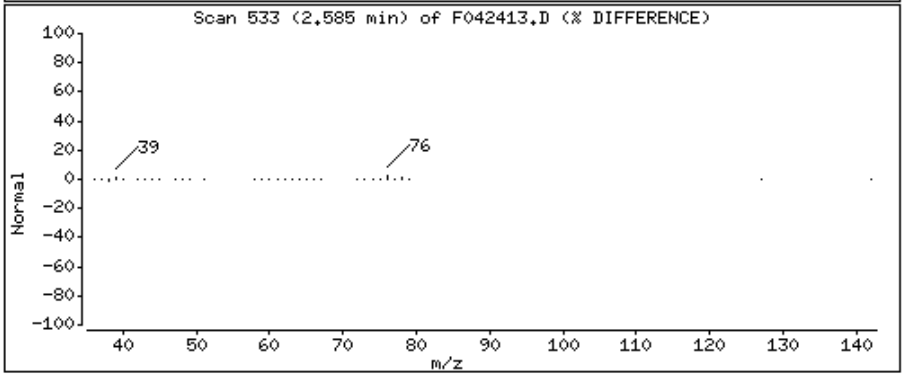
Column phase: DB624 Column diameter: 0.18

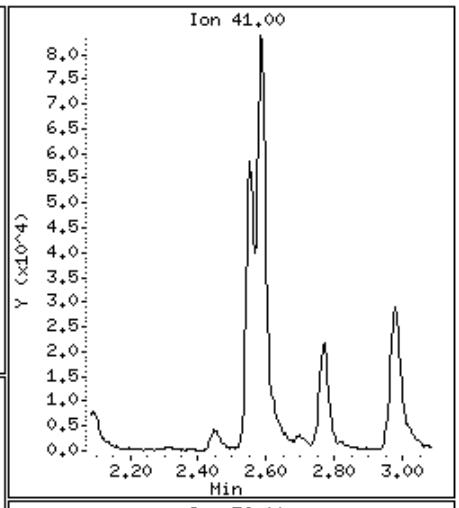
14 Allyl Chloride Concentration: 57.08 ug/l

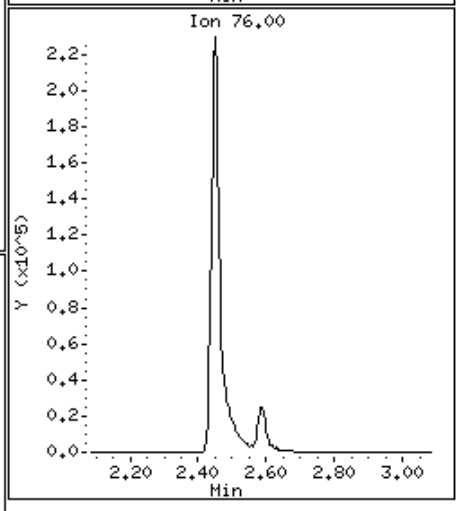












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 15

Date : 24-APR-2024 13:44

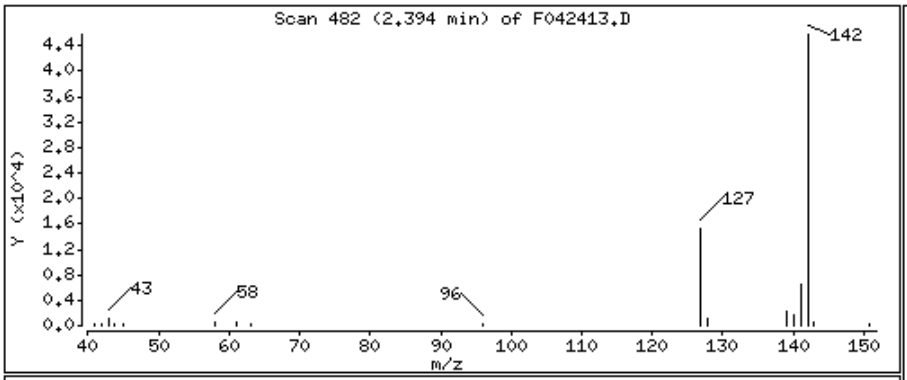
Client ID: VSTD050 Instrument: voa10.i

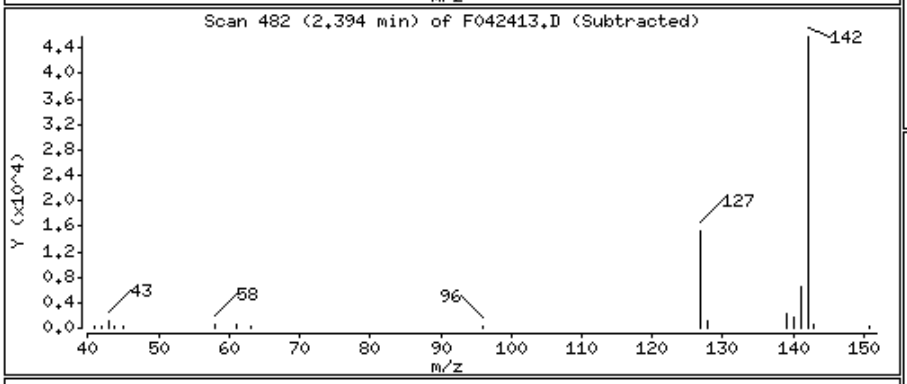
Sample Info: VSTD050;VSTD050;2;;ICV

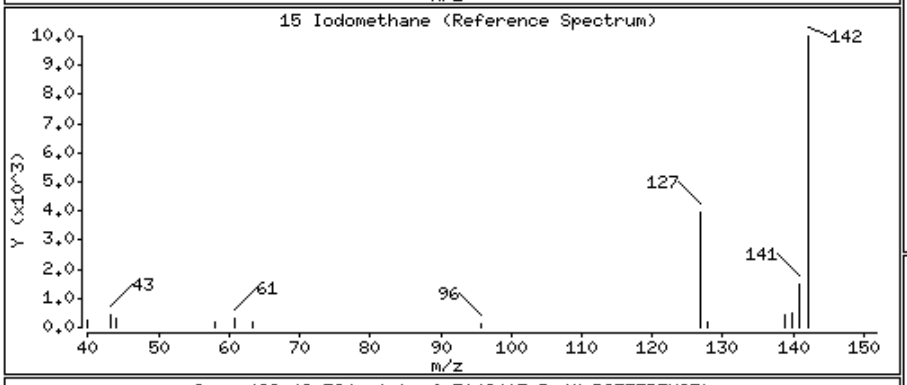
Purge Volume: 5.0 Operator: TS

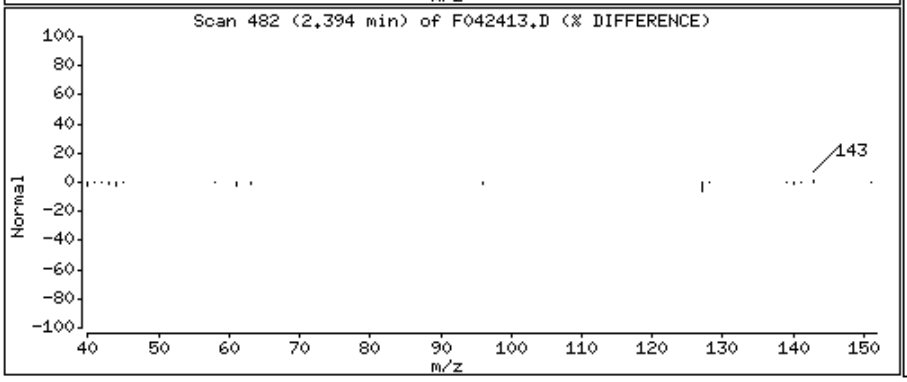
Column phase: DB624 Column diameter: 0.18

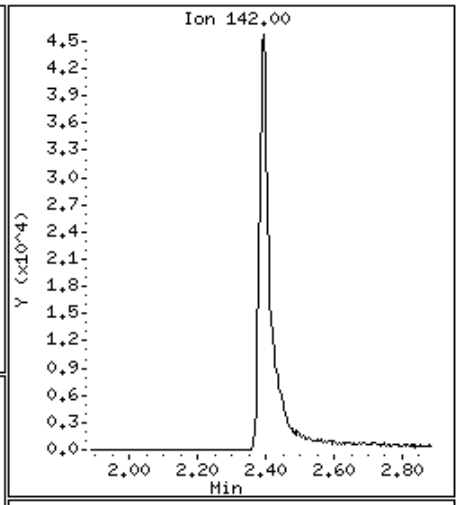
15 Iodomethane Concentration: 81.66 ug/l

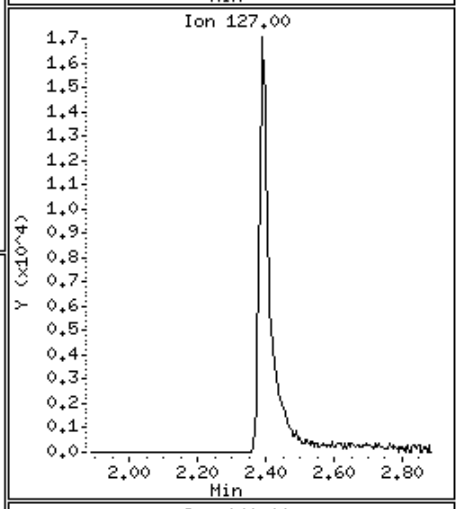


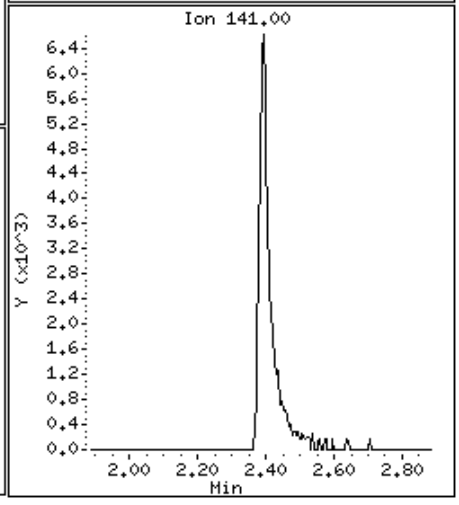












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 16

Date : 24-APR-2024 13:44

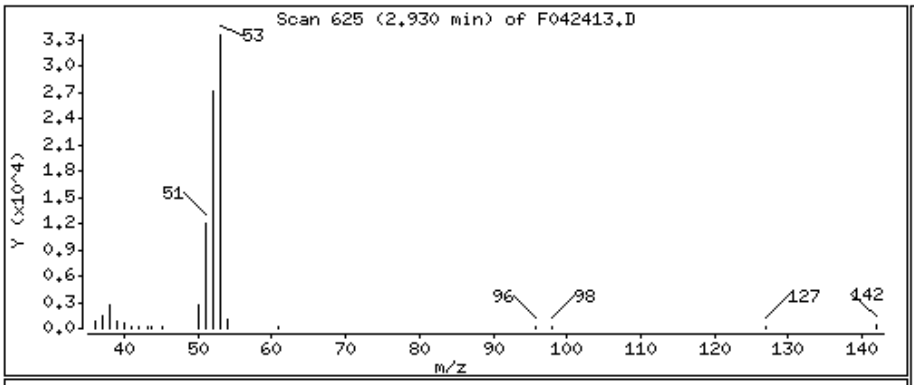
Client ID: VSTD050 Instrument: voa10.i

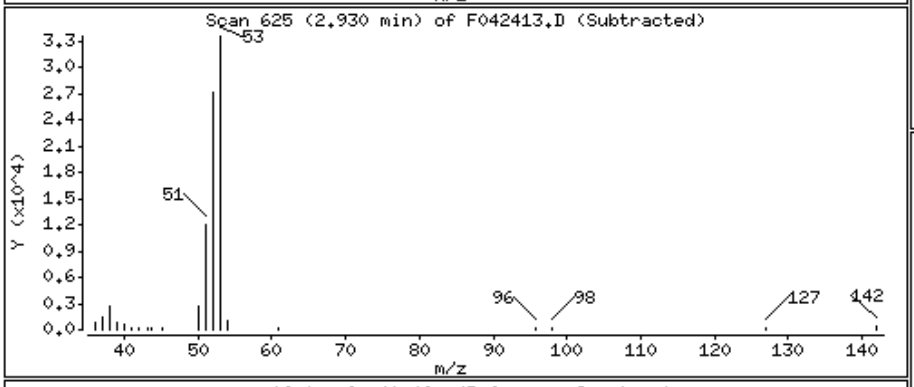
Sample Info: VSTD050;VSTD050;2;;ICV

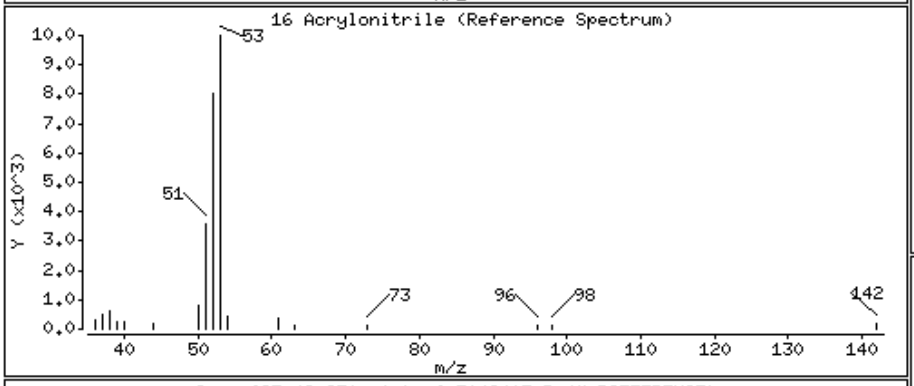
Purge Volume: 5.0 Operator: TS

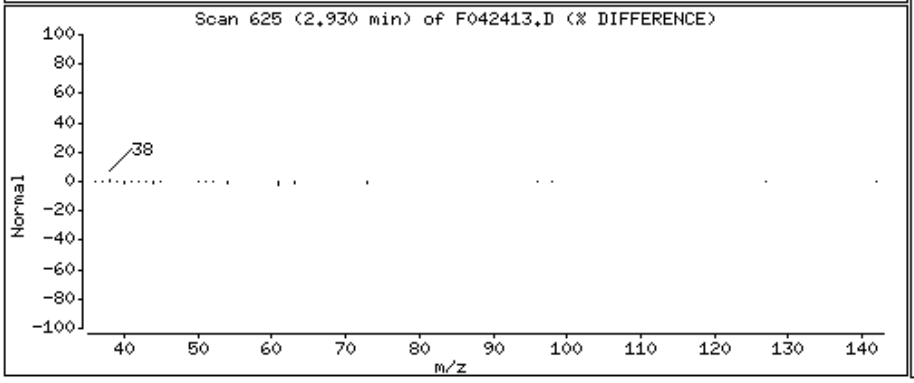
Column phase: DB624 Column diameter: 0.18

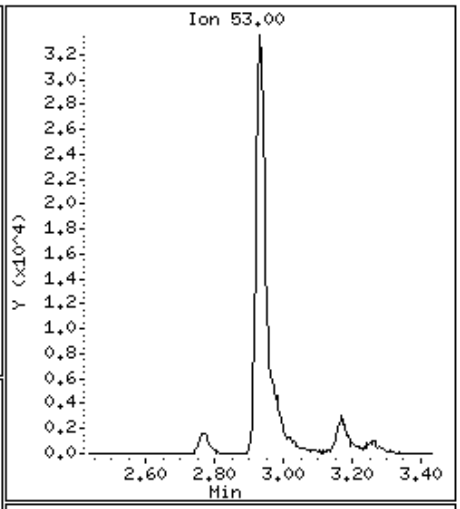
16 Acrylonitrile Concentration: 118.79 ug/l

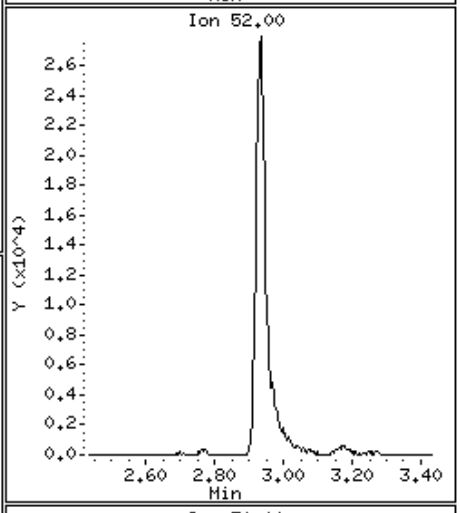


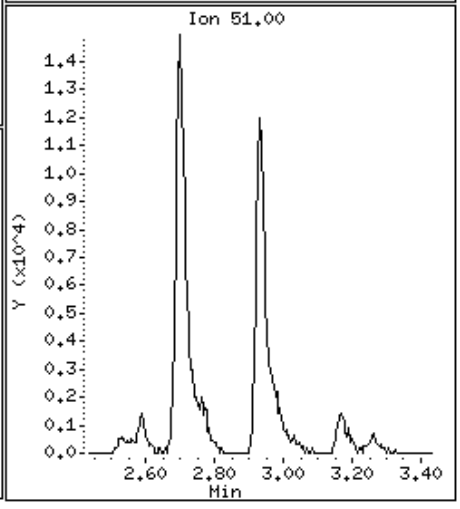












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 17

Date : 24-APR-2024 13:44

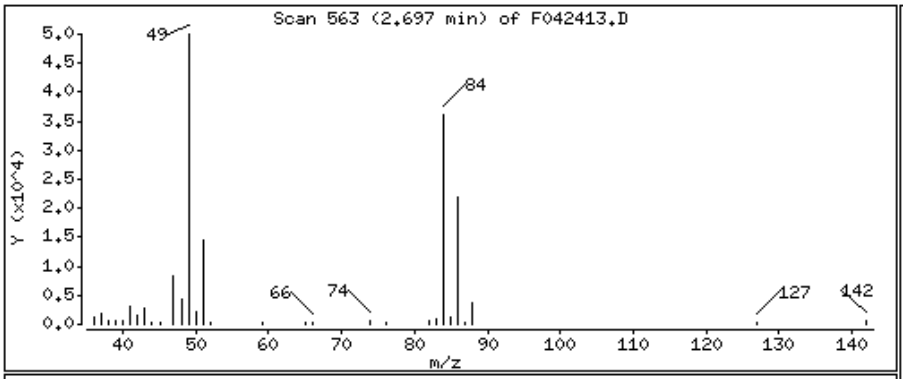
Client ID: VSTD050 Instrument: voa10.i

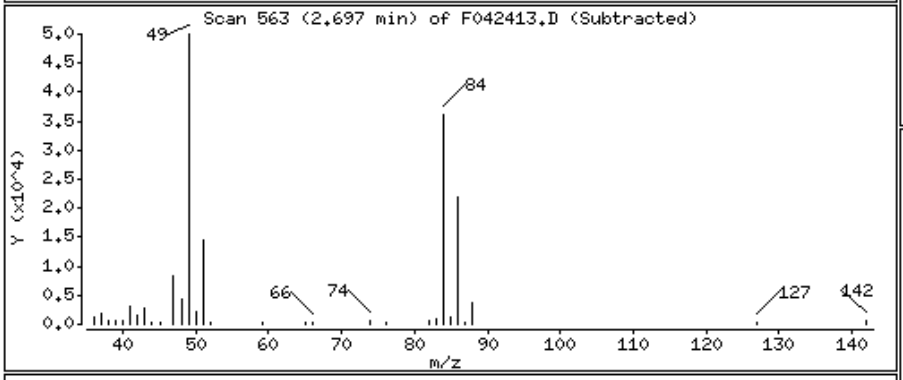
Sample Info: VSTD050;VSTD050;2;;ICV

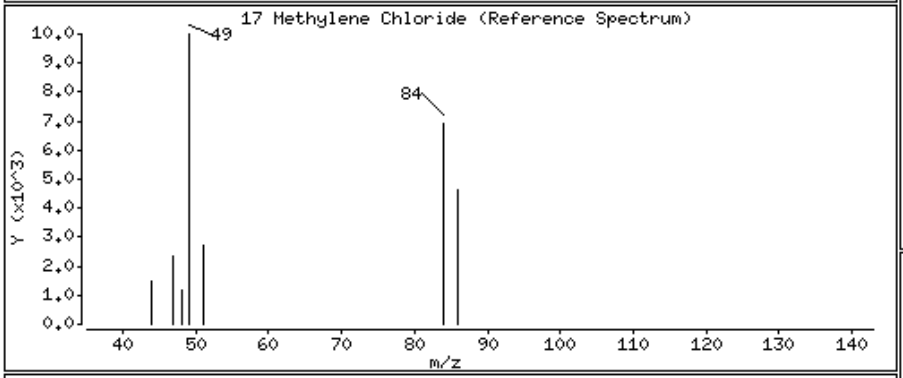
Purge Volume: 5.0 Operator: TS

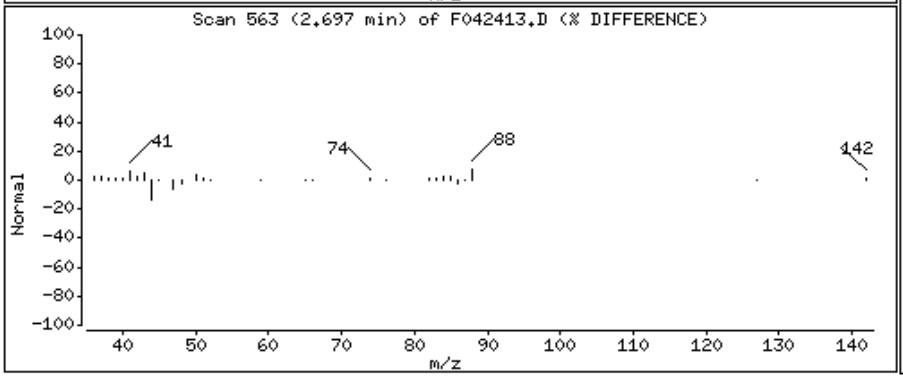
Column phase: DB624 Column diameter: 0.18

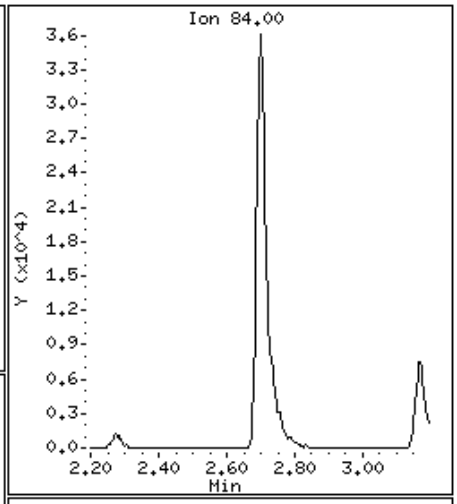
17 Methylene Chloride Concentration: 49.83 ug/l

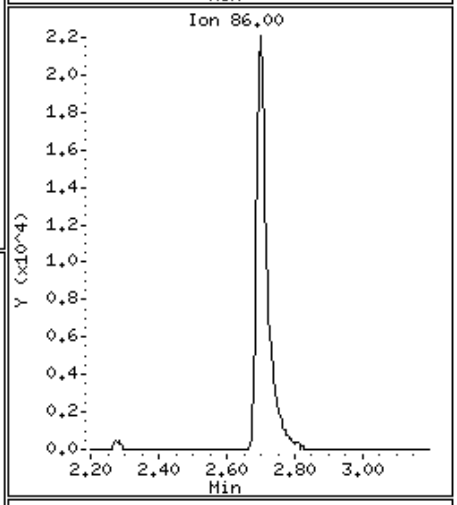


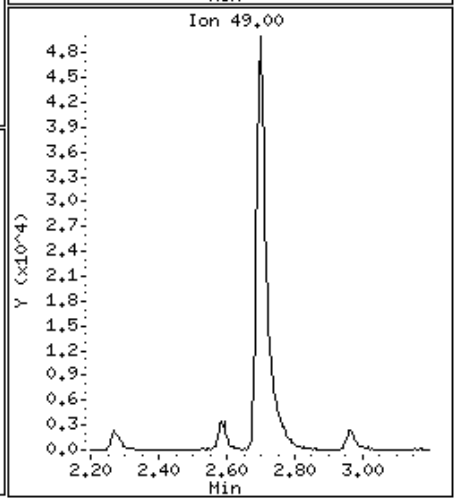












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

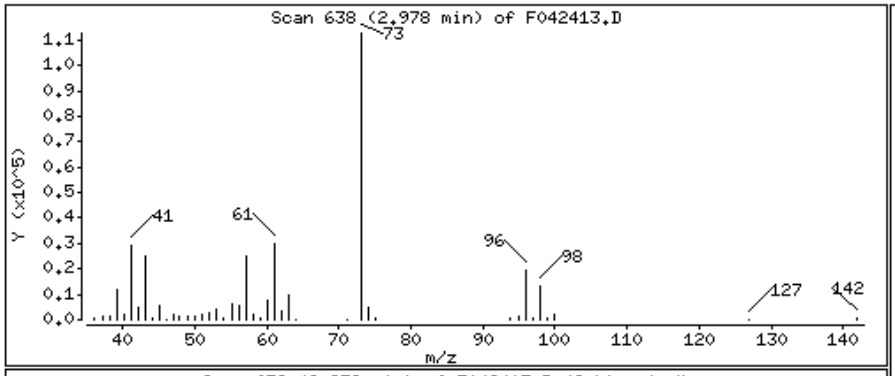
Client ID: VSTD050 Instrument: voa10.i

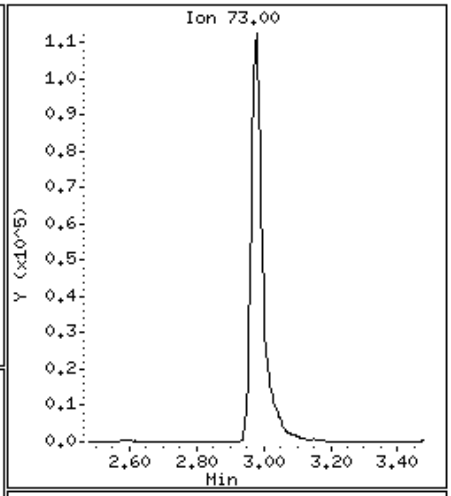
Sample Info: VSTD050;VSTD050;2;;ICV

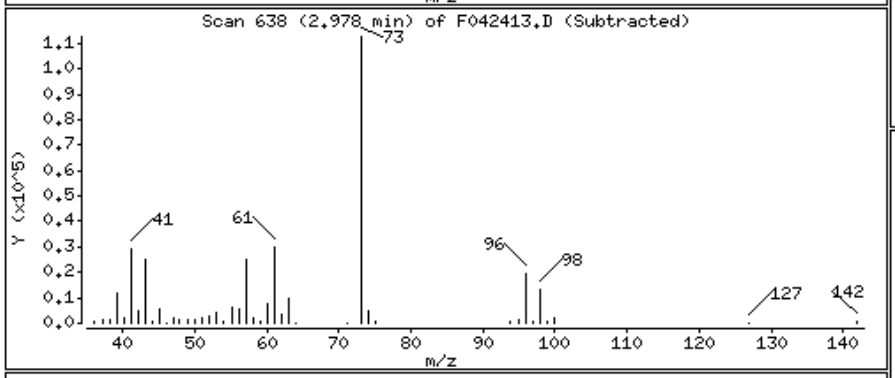
Purge Volume: 5.0 Operator: TS

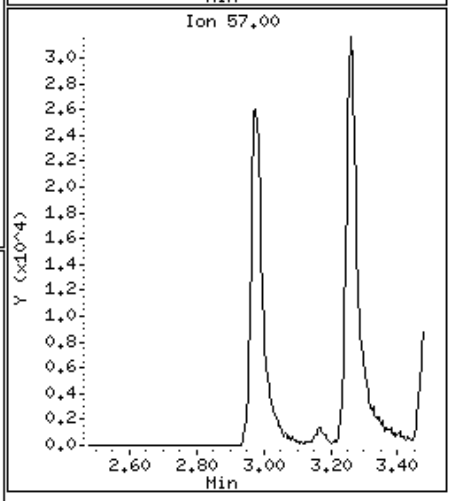
Column phase: DB624 Column diameter: 0.18

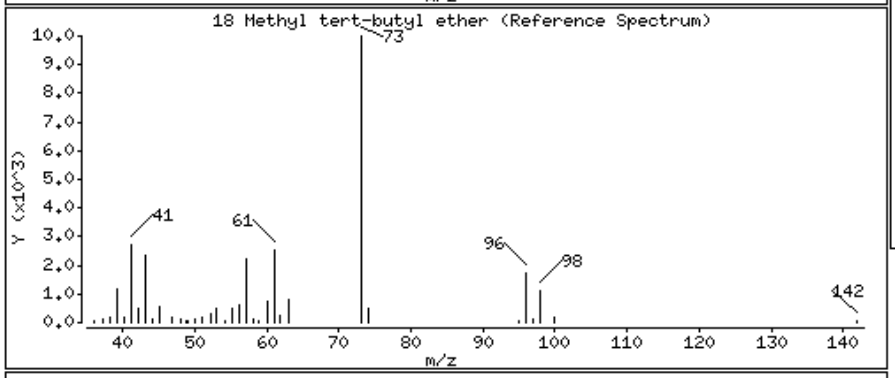
18 Methyl tert-butyl ether Concentration: 59.43 ug/l

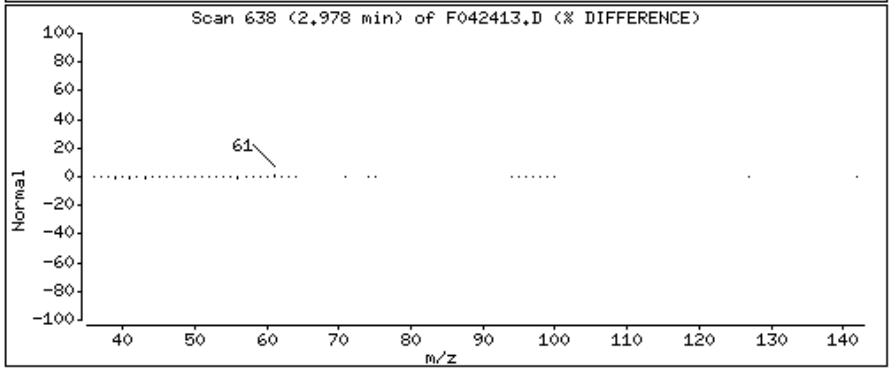












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 19

Date : 24-APR-2024 13:44

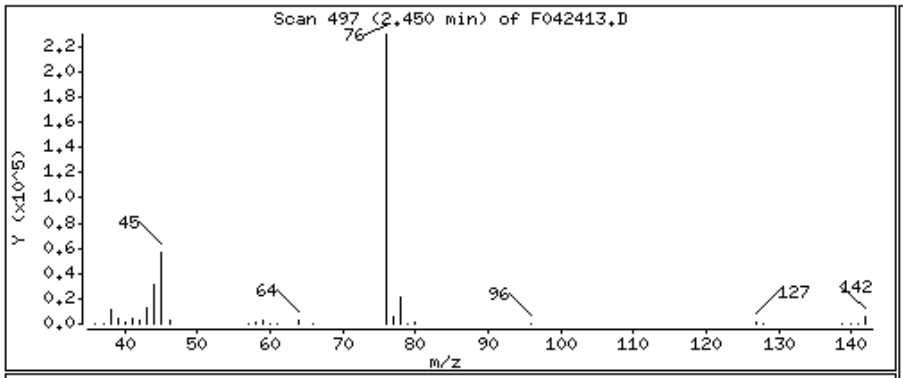
Client ID: VSTD050 Instrument: voa10.i

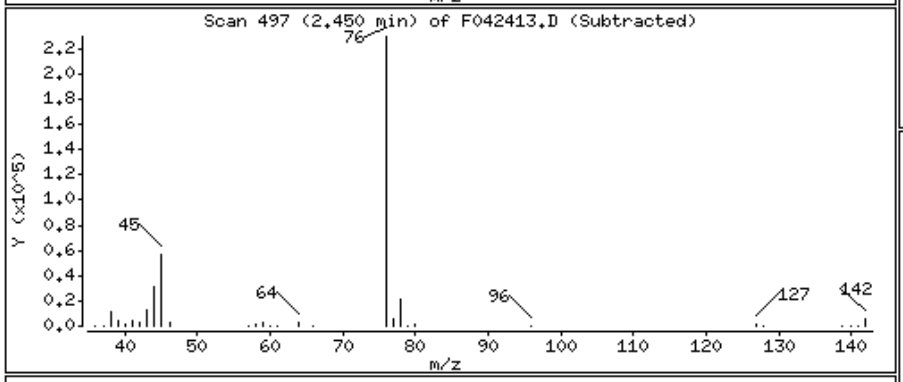
Sample Info: VSTD050;VSTD050;2;;ICV

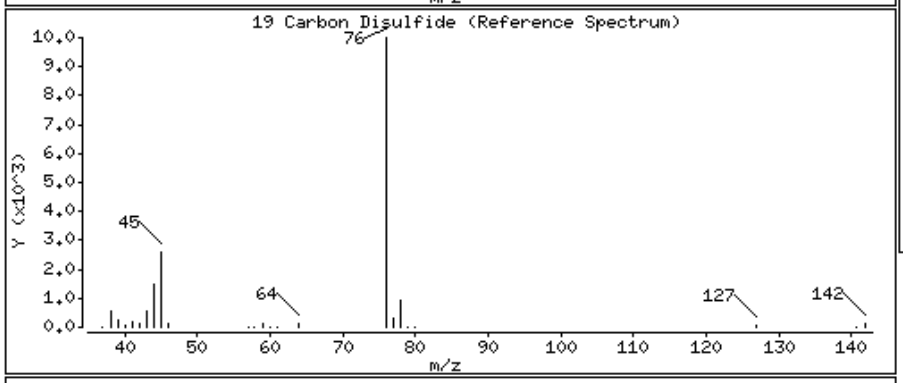
Purge Volume: 5.0 Operator: TS

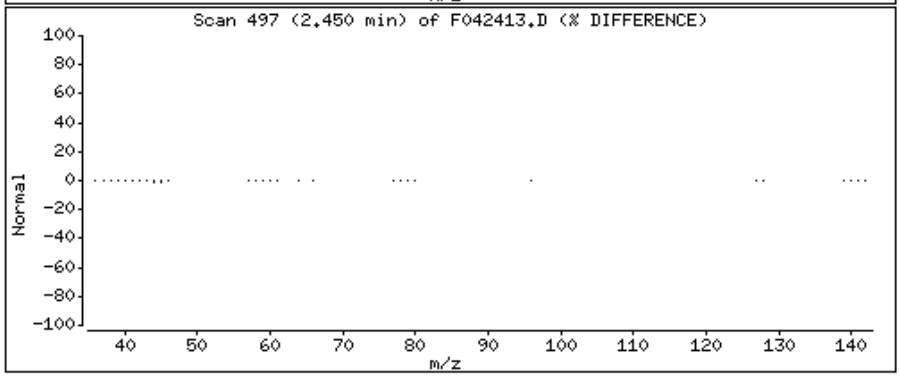
Column phase: DB624 Column diameter: 0.18

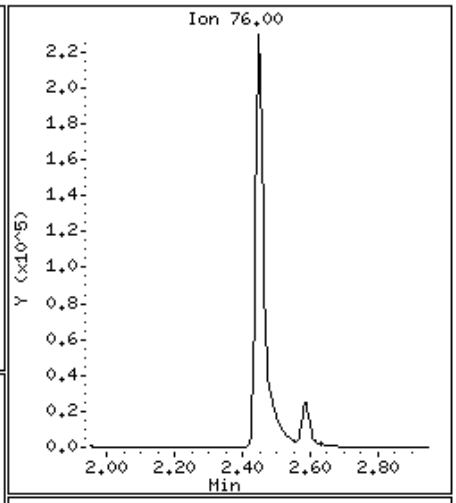
19 Carbon Disulfide Concentration: 104.84 ug/l

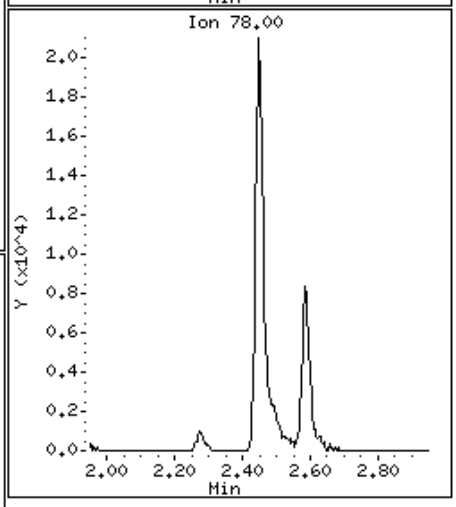












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 20

Date : 24-APR-2024 13:44

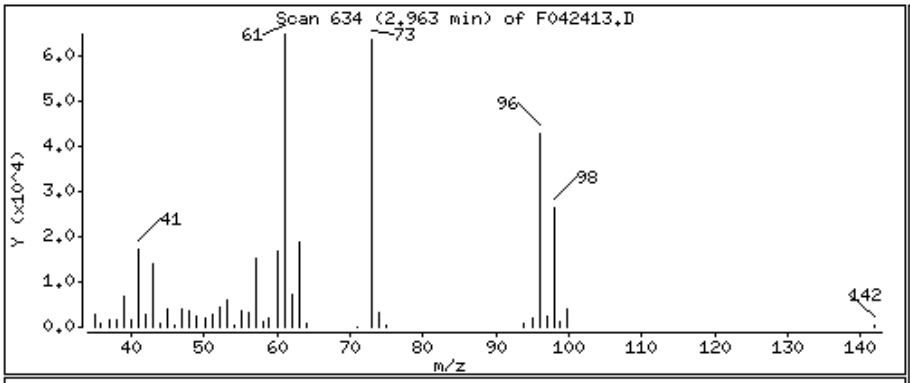
Client ID: VSTD050 Instrument: voa10.i

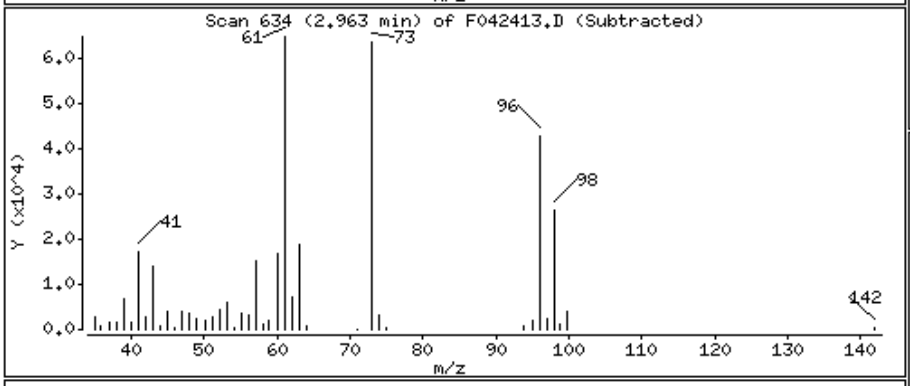
Sample Info: VSTD050;VSTD050;2;;ICV

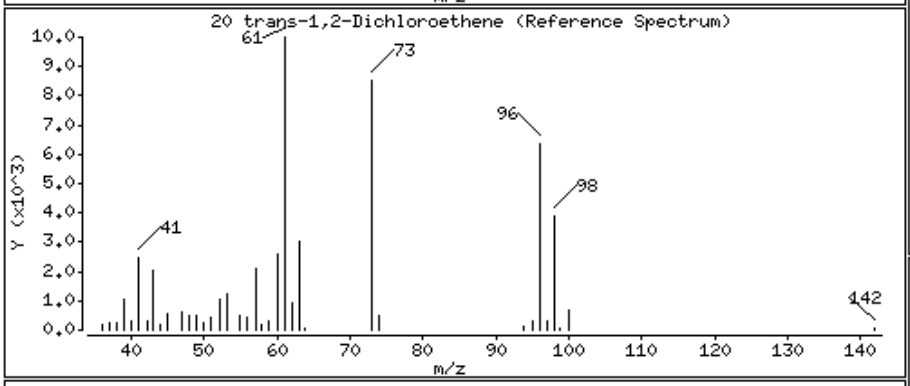
Purge Volume: 5.0 Operator: TS

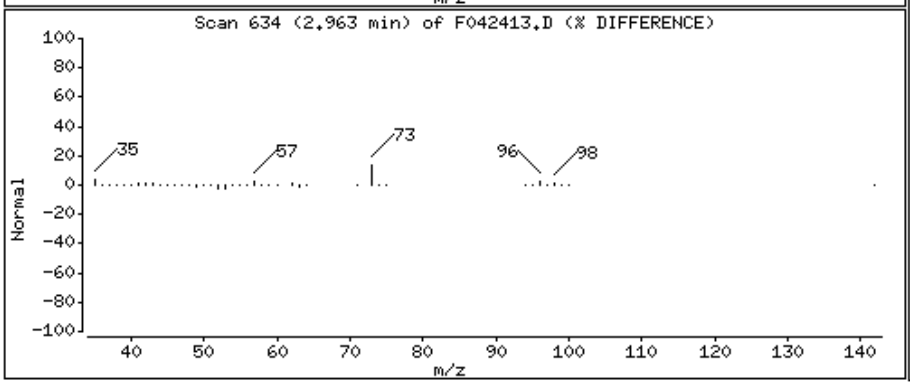
Column phase: DB624 Column diameter: 0.18

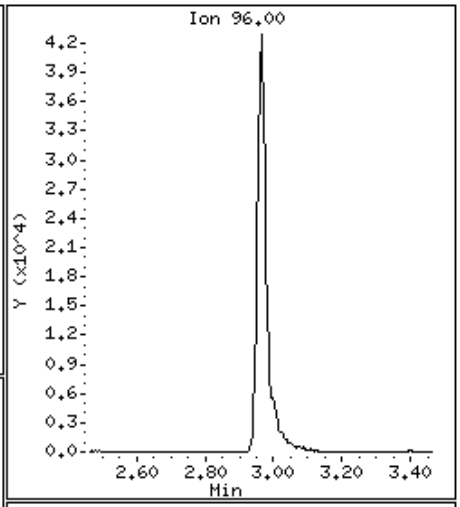
20 trans-1,2-Dichloroethene Concentration: 59.25 ug/l

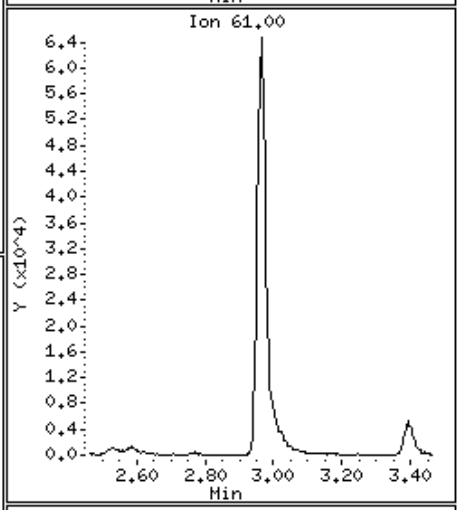


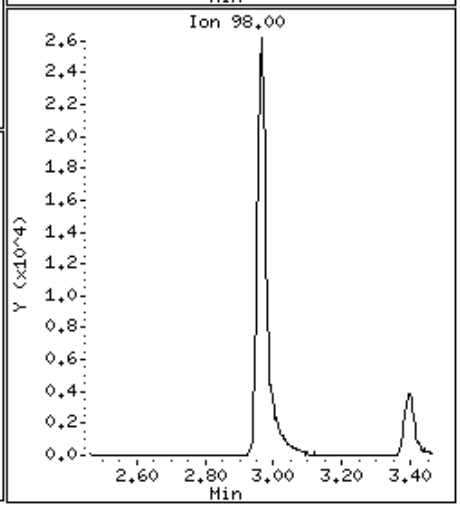












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 21

Date : 24-APR-2024 13:44

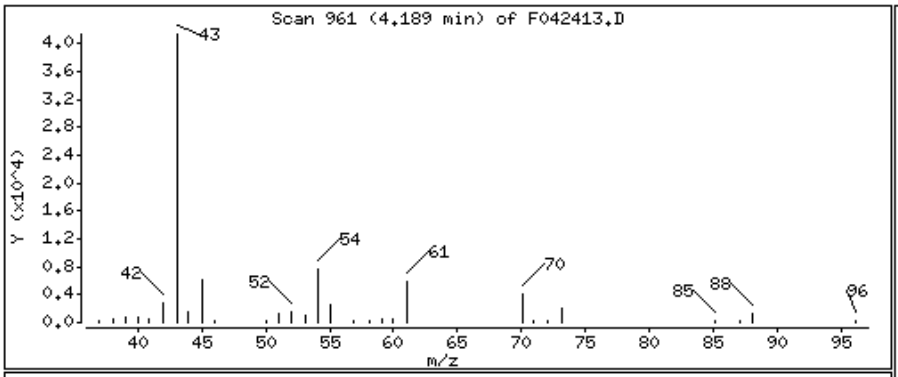
Client ID: VSTD050 Instrument: voa10.i

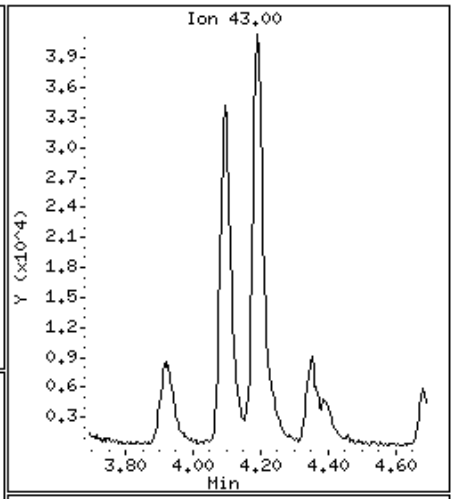
Sample Info: VSTD050;VSTD050;2;;ICV

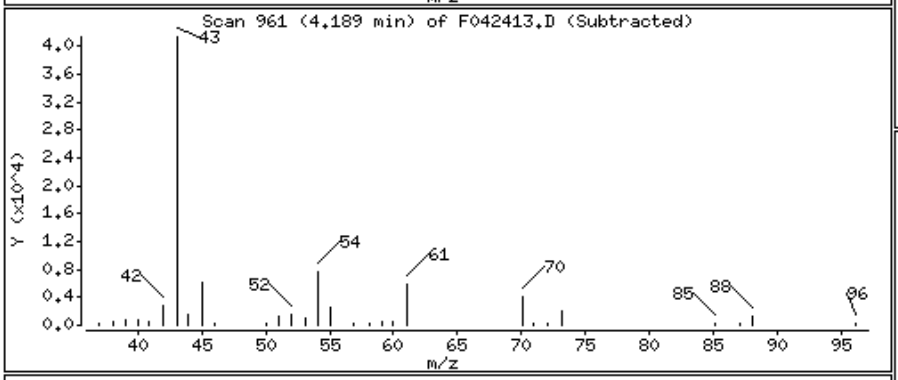
Purge Volume: 5.0 Operator: TS

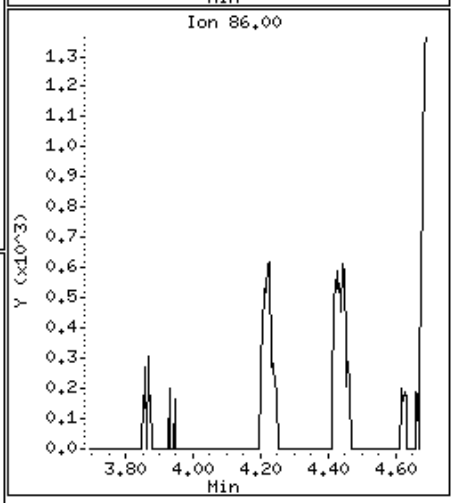
Column phase: DB624 Column diameter: 0.18

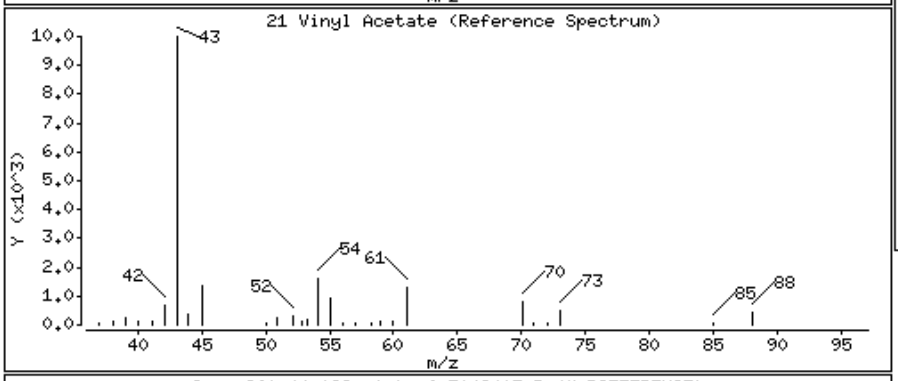
21 Vinyl Acetate Concentration: 112.47 ug/l

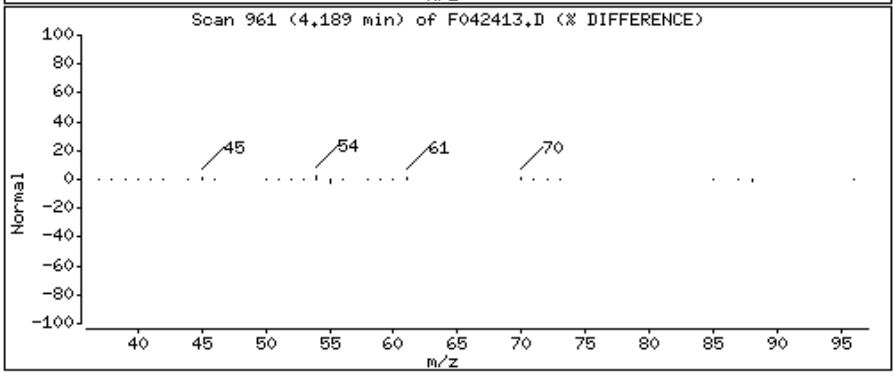












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 22

Date : 24-APR-2024 13:44

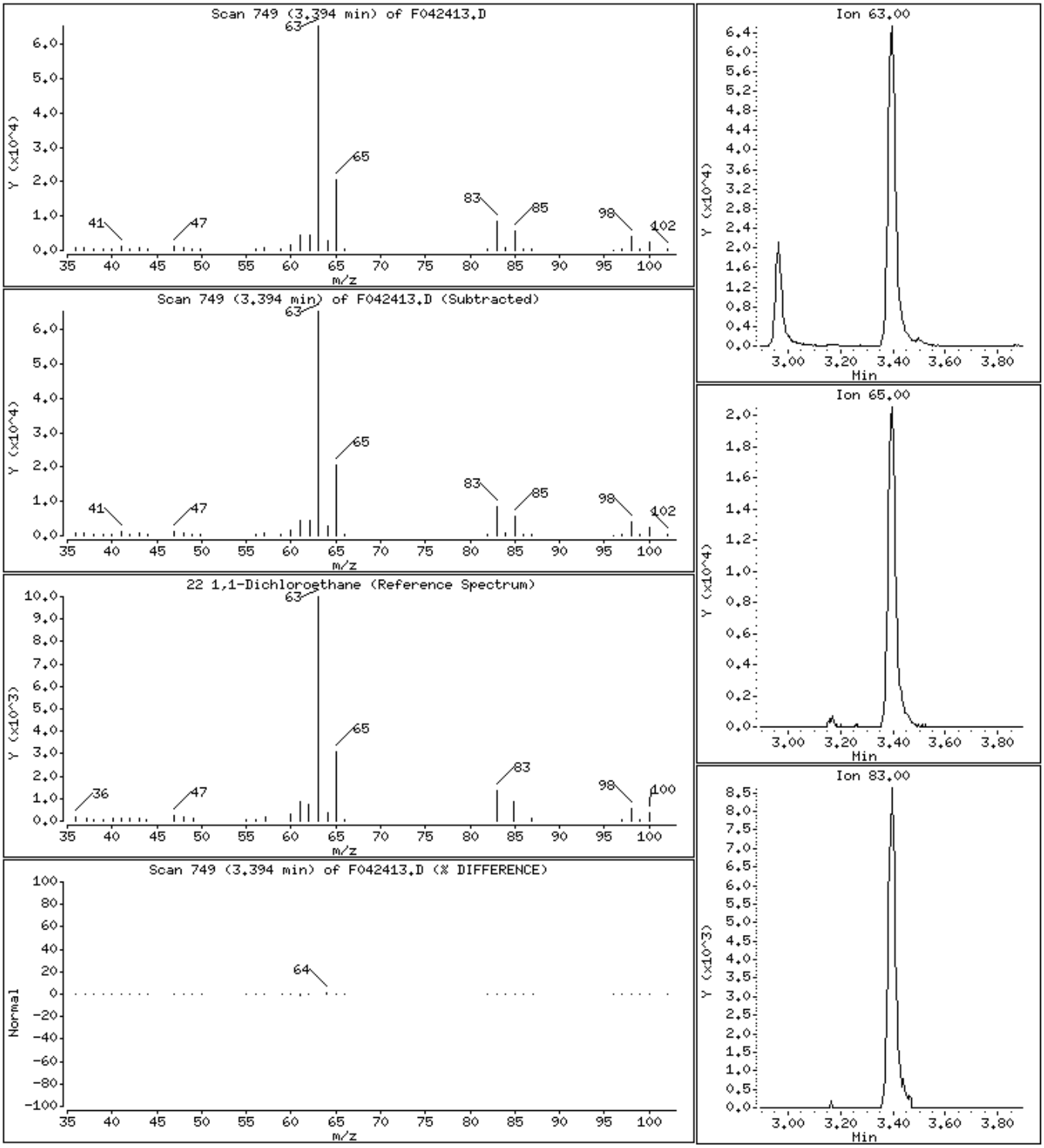
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

22 1,1-Dichloroethane Concentration: 52.82 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

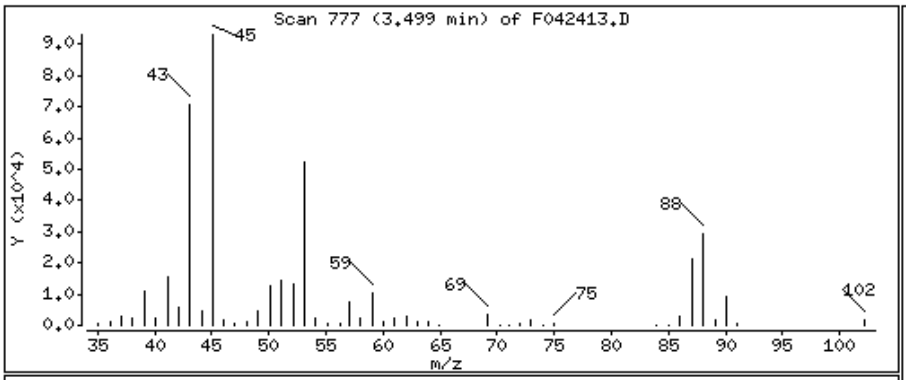
Operator: TS

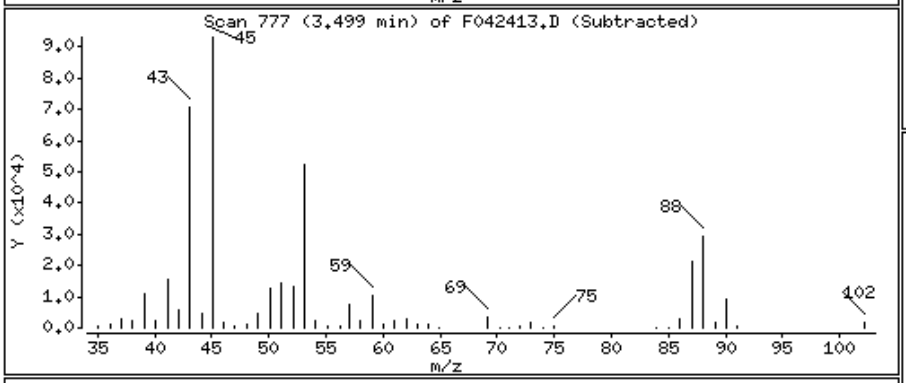
Column phase: DB624

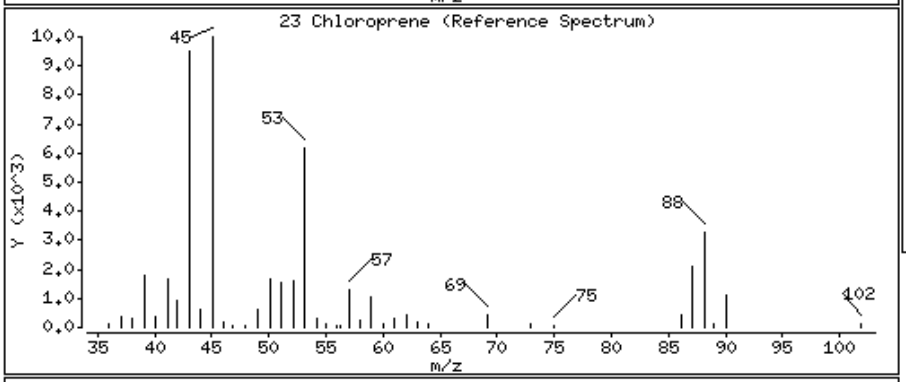
Column diameter: 0.18

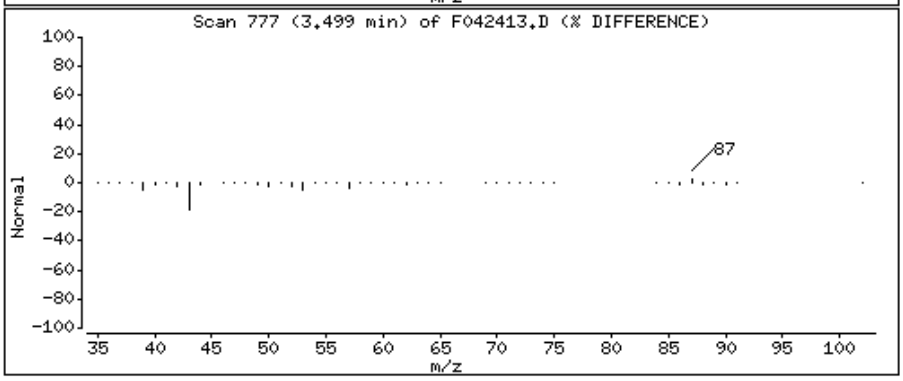
23 Chloroprene

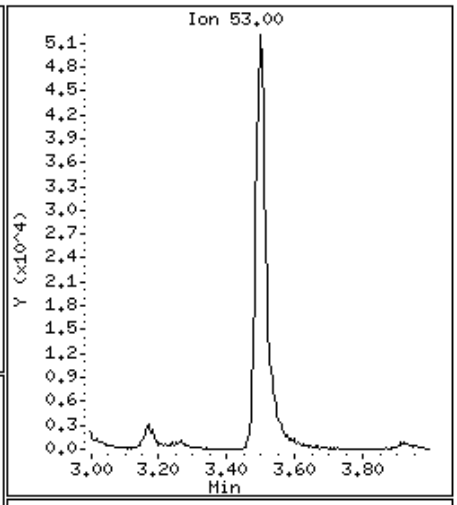
Concentration: 50.09 ug/l

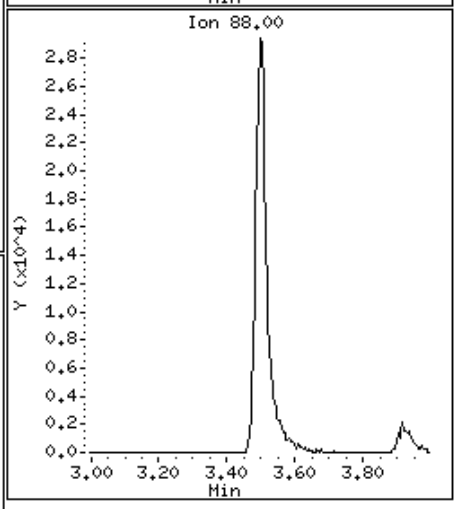












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 24

Date : 24-APR-2024 13:44

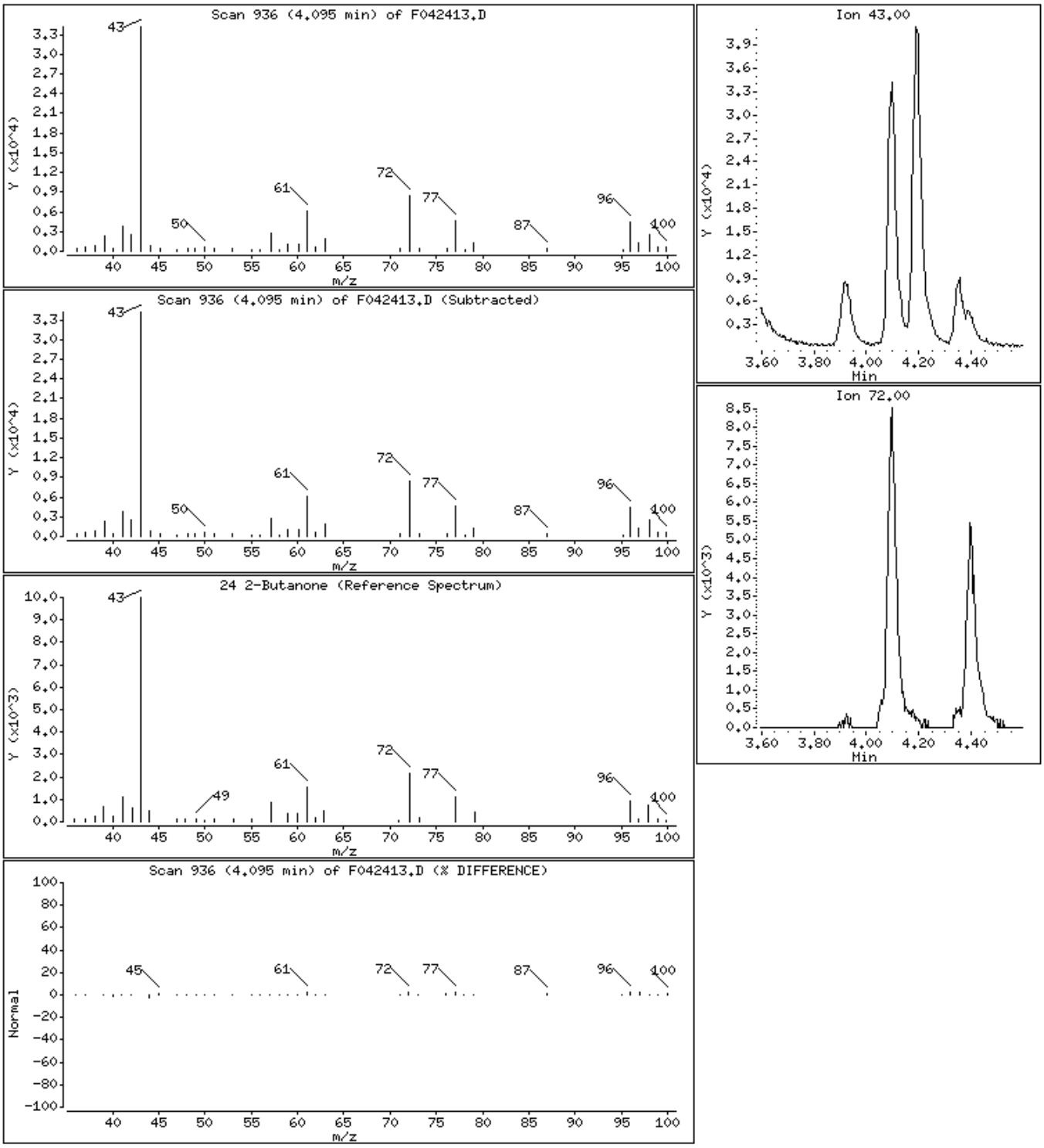
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

24 2-Butanone Concentration: 104.50 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

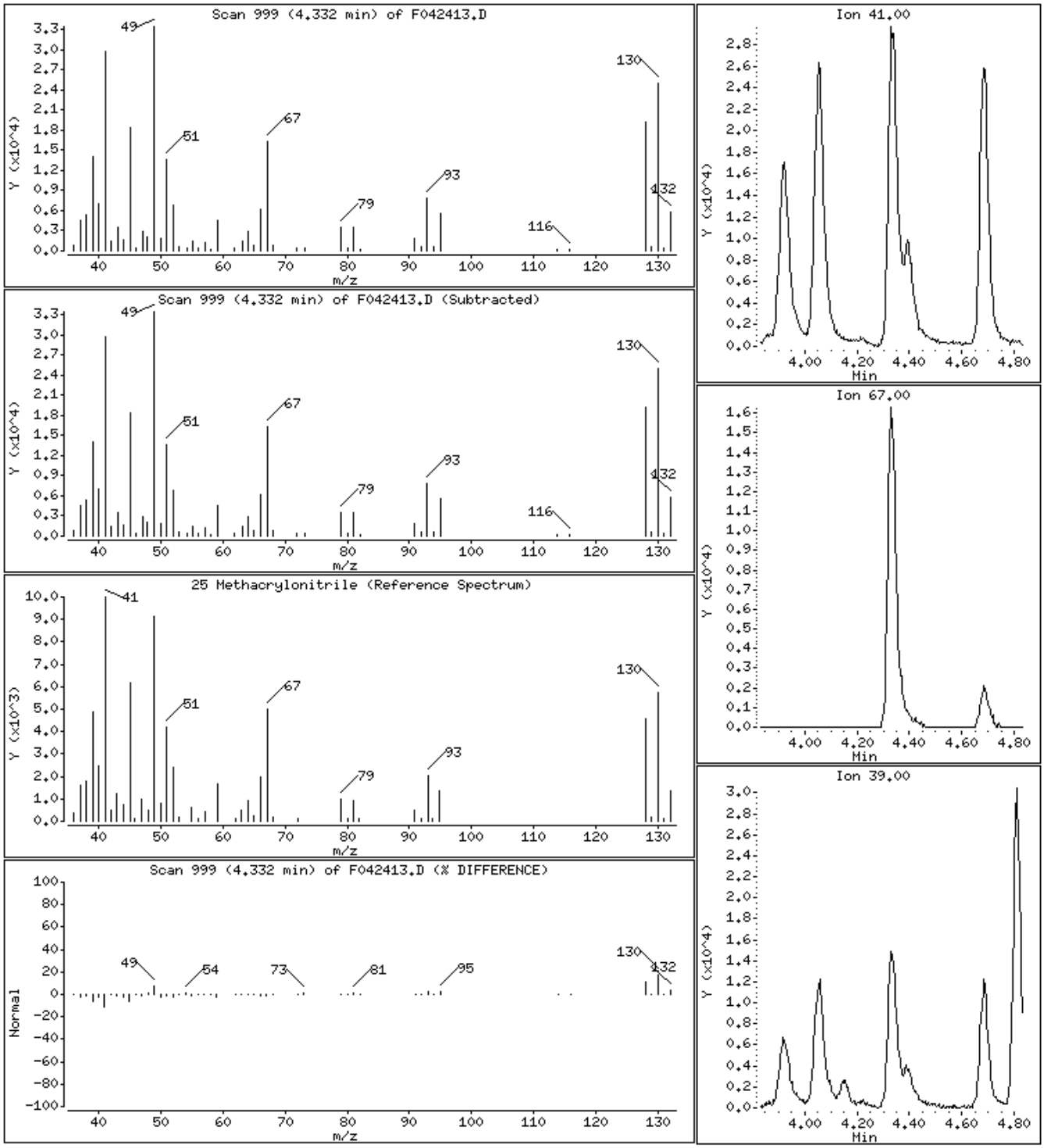
Operator: TS

Column phase: DB624

Column diameter: 0.18

25 Methacrylonitrile

Concentration: 54.70 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 26

Date : 24-APR-2024 13:44

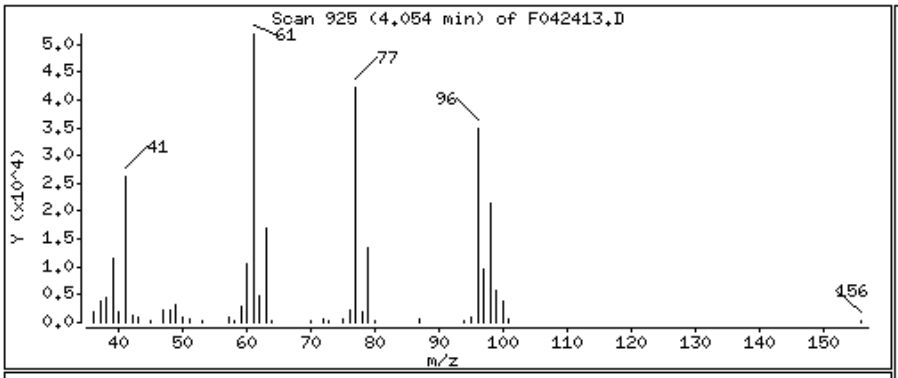
Client ID: VSTD050 Instrument: voa10.i

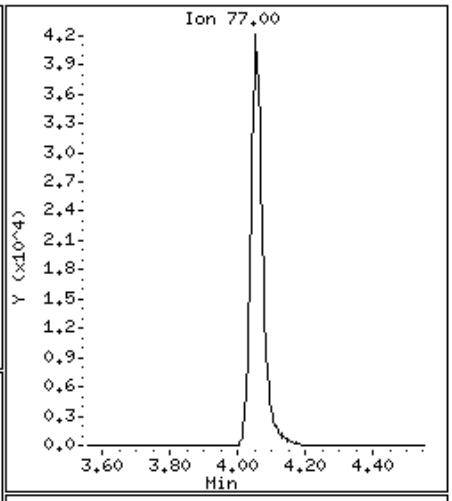
Sample Info: VSTD050;VSTD050;2;;ICV

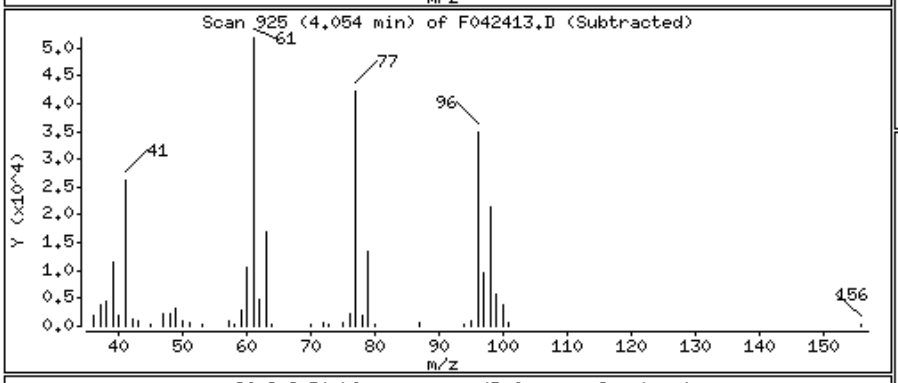
Purge Volume: 5.0 Operator: TS

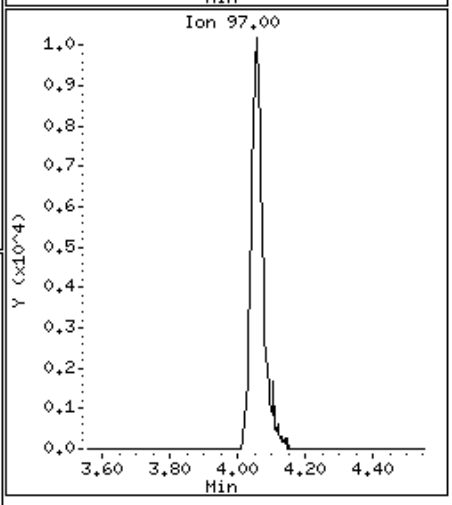
Column phase: DB624 Column diameter: 0.18

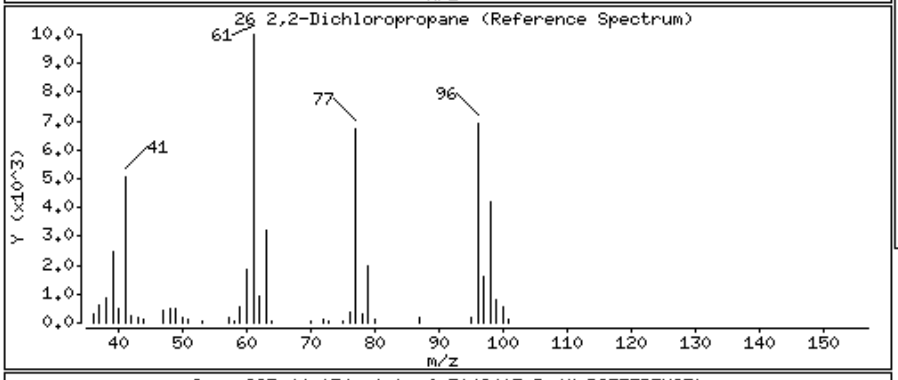
26 2,2-Dichloropropane Concentration: 47.70 ug/l

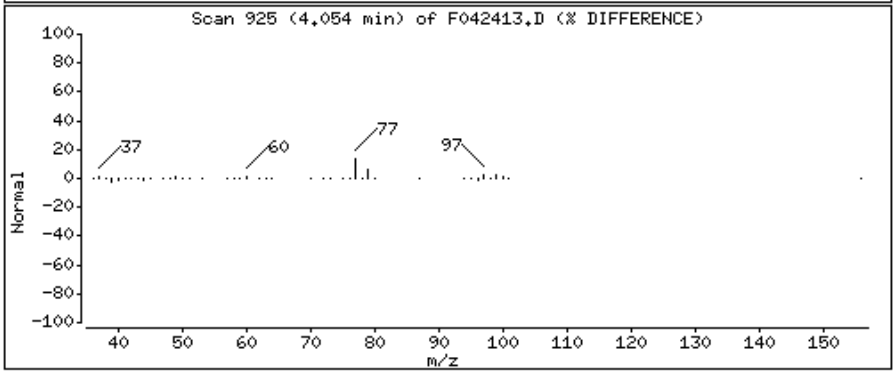












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 27

Date : 24-APR-2024 13:44

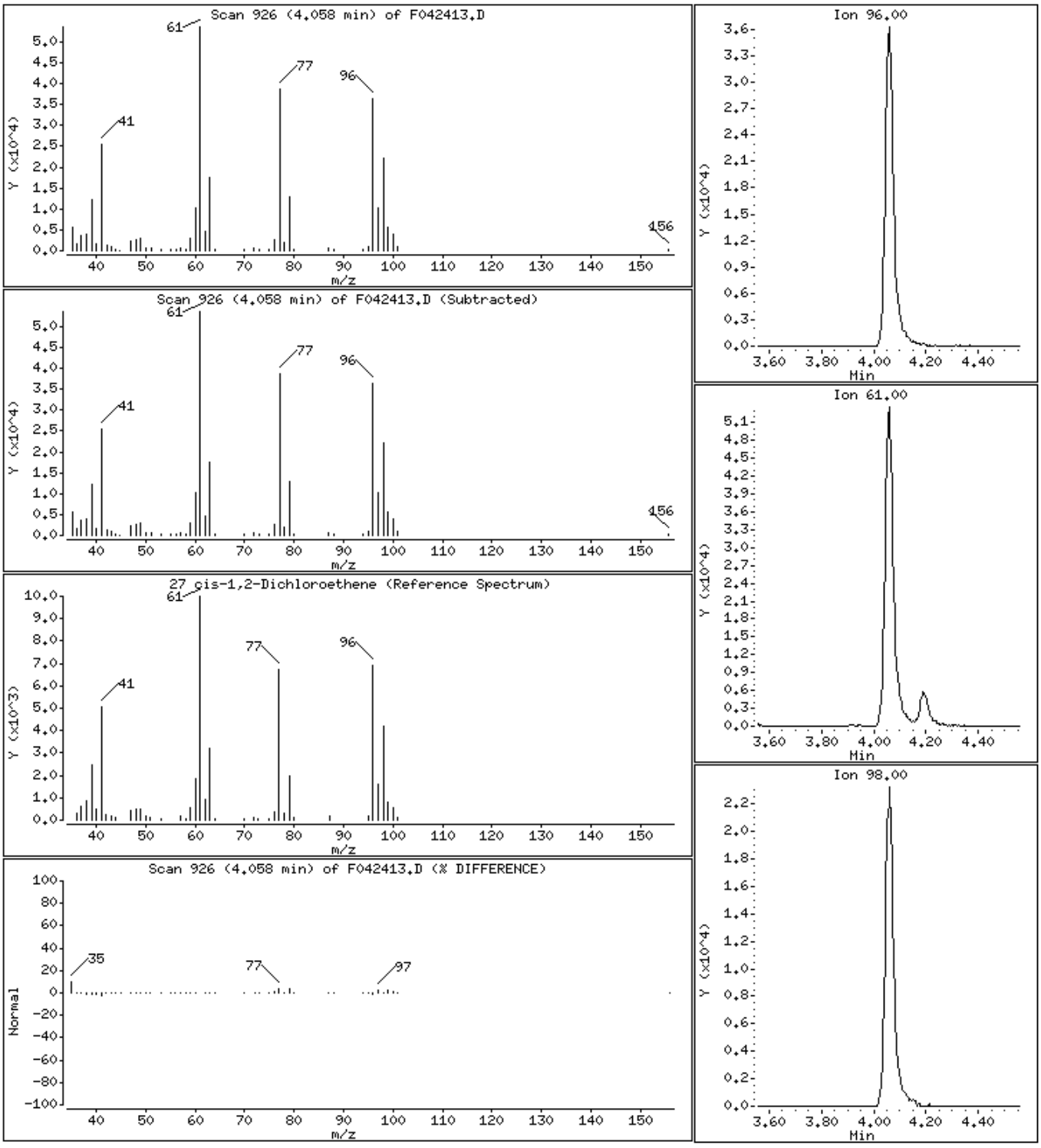
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

27 cis-1,2-Dichloroethene Concentration: 50.84 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 28

Date : 24-APR-2024 13:44

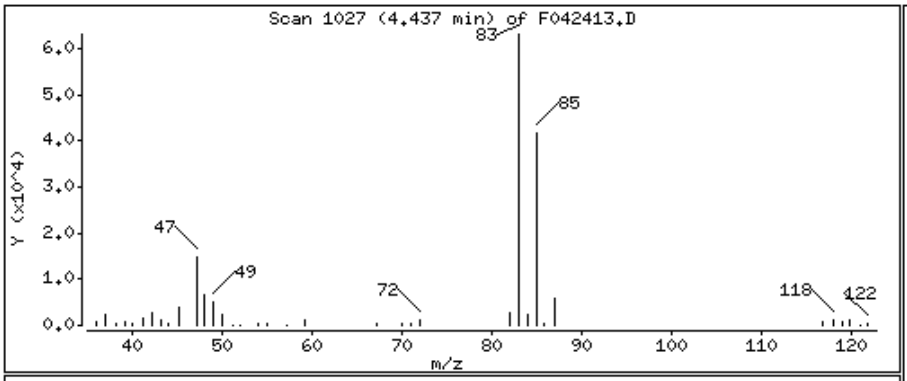
Client ID: VSTD050 Instrument: voa10.i

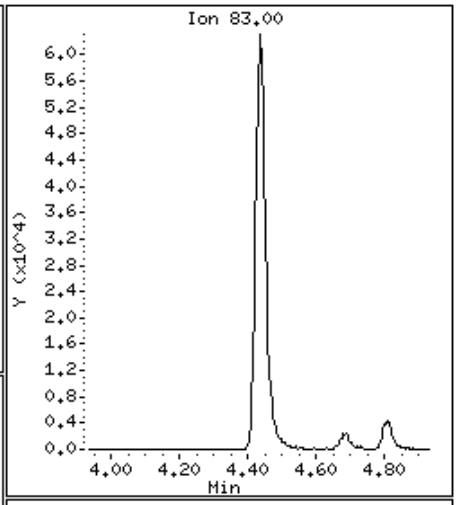
Sample Info: VSTD050;VSTD050;2;;ICV

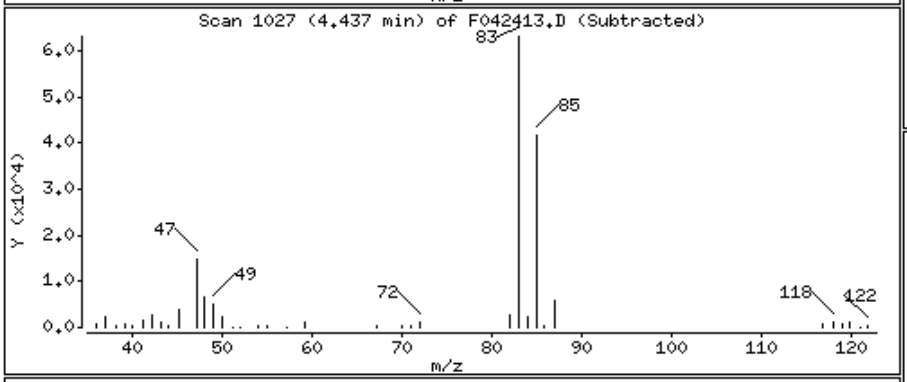
Purge Volume: 5.0 Operator: TS

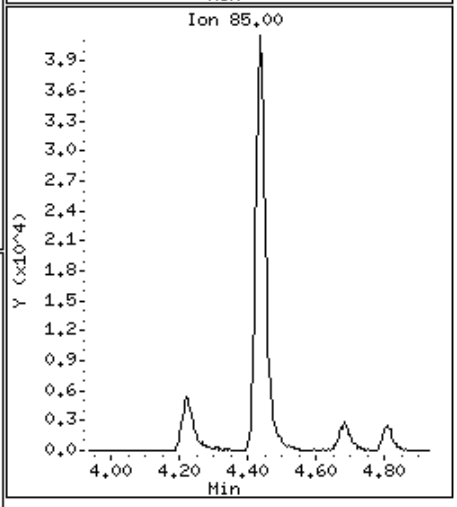
Column phase: DB624 Column diameter: 0.18

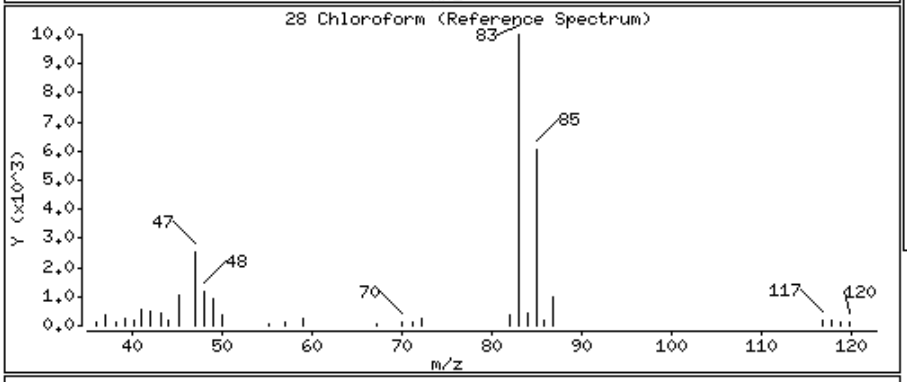
28 Chloroform Concentration: 50.85 ug/l

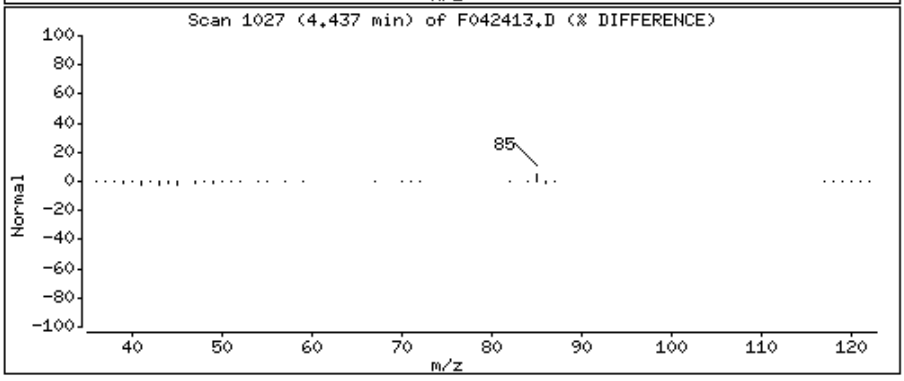












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 29

Date : 24-APR-2024 13:44

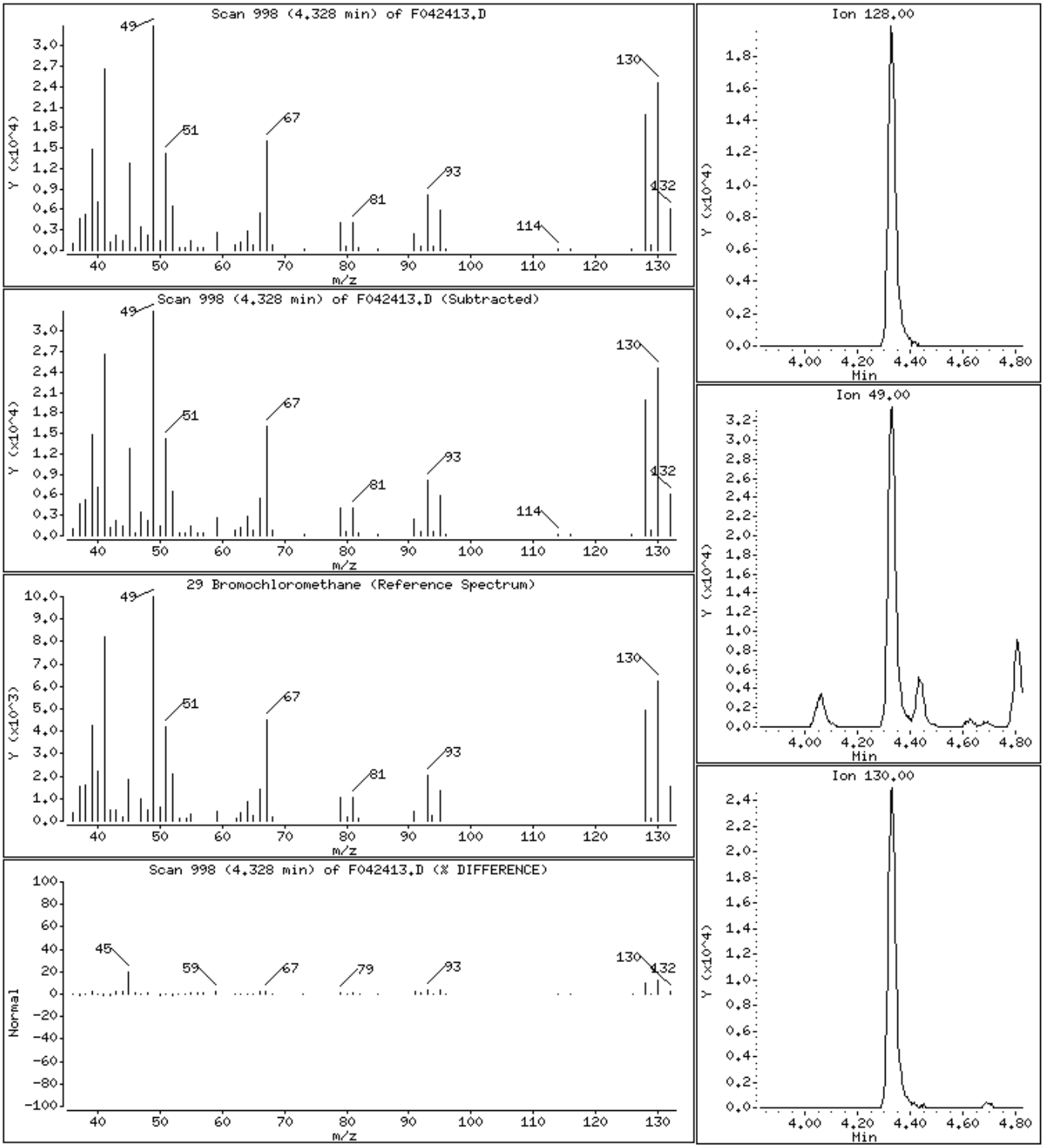
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

29 Bromochloromethane Concentration: 51.81 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 30

Date : 24-APR-2024 13:44

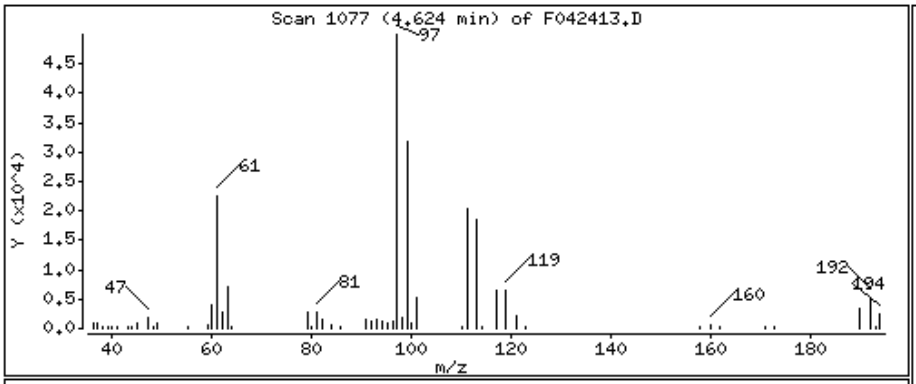
Client ID: VSTD050 Instrument: voa10.i

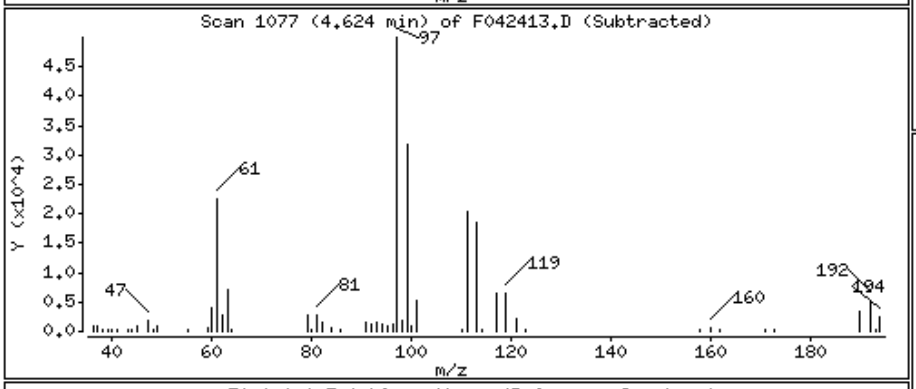
Sample Info: VSTD050;VSTD050;2;;ICV

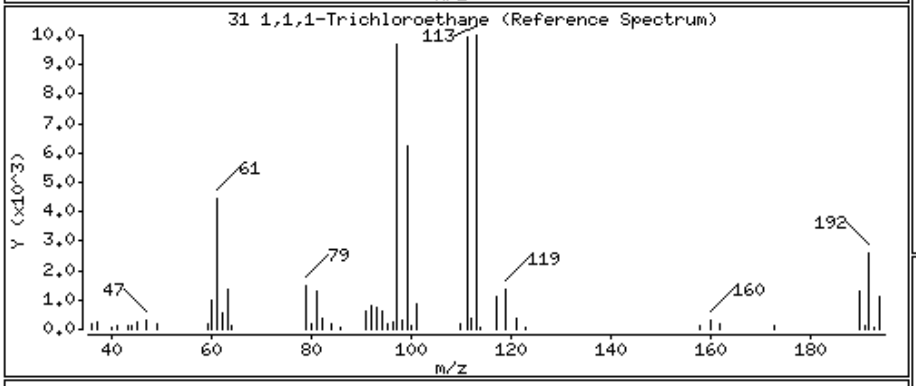
Purge Volume: 5.0 Operator: TS

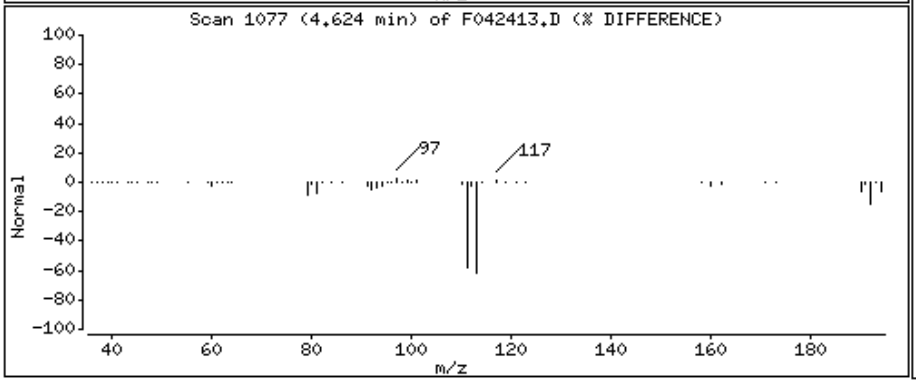
Column phase: DB624 Column diameter: 0.18

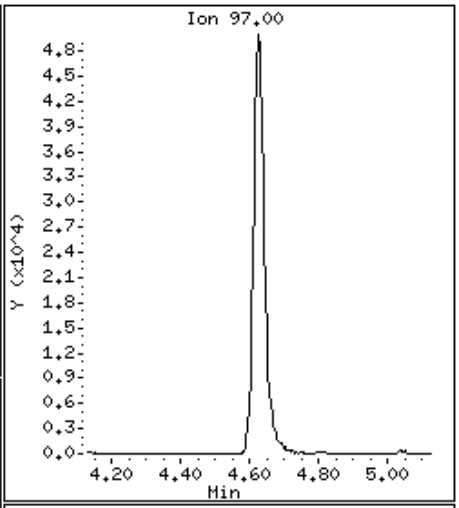
31 1,1,1-Trichloroethane Concentration: 48.81 ug/l

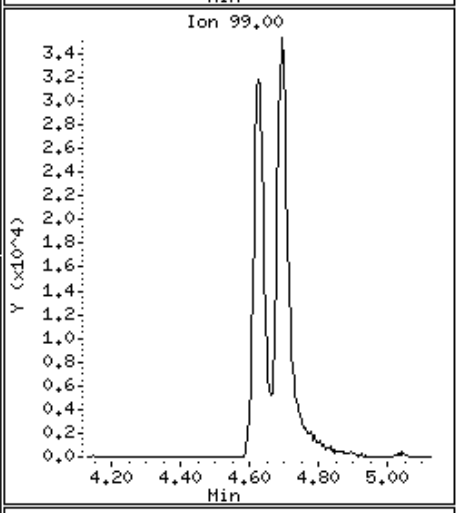


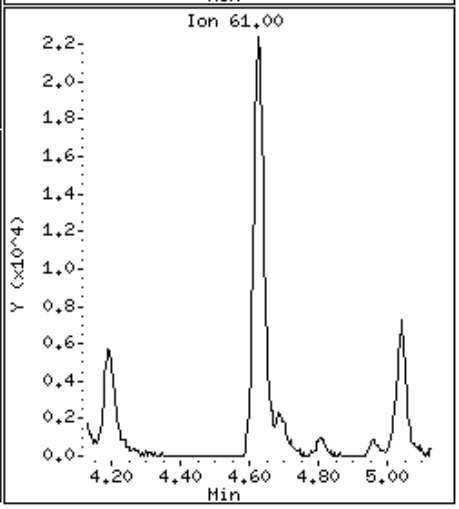












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 31

Date : 24-APR-2024 13:44

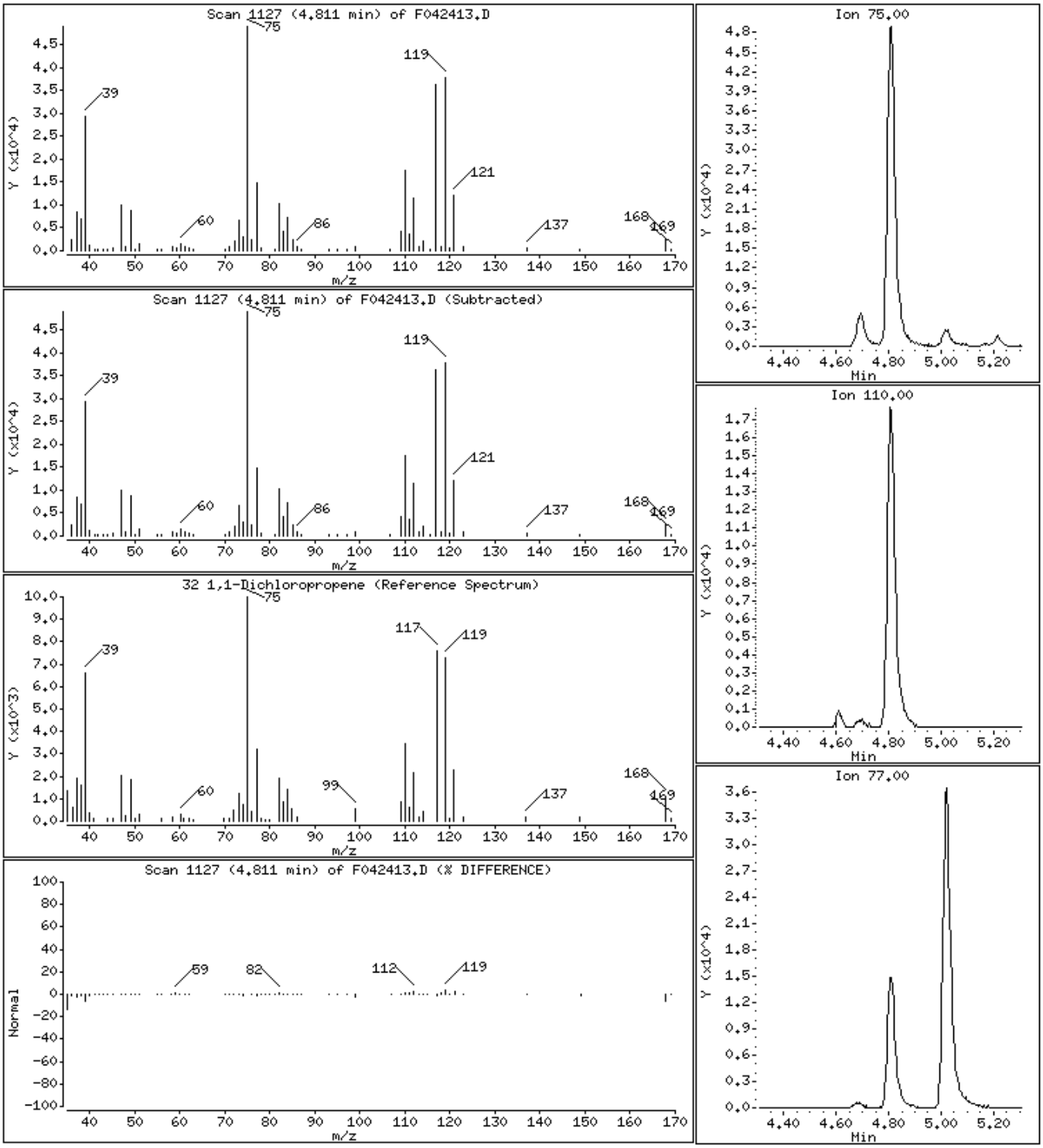
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

32 1,1-Dichloropropene Concentration: 47.07 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 32

Date : 24-APR-2024 13:44

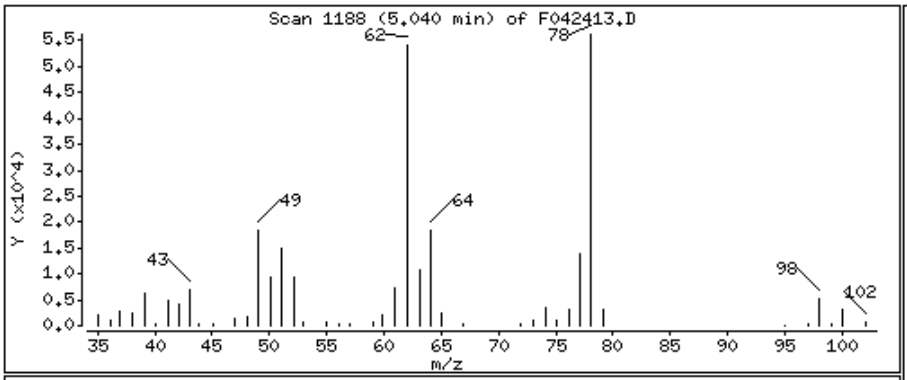
Client ID: VSTD050 Instrument: voa10.i

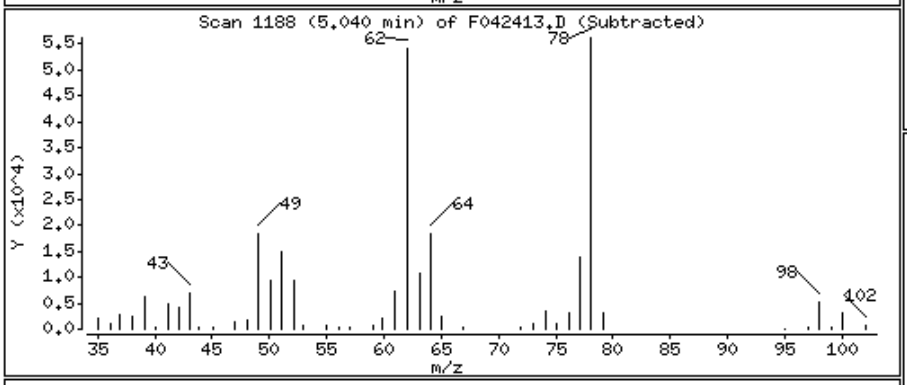
Sample Info: VSTD050;VSTD050;2;;ICV

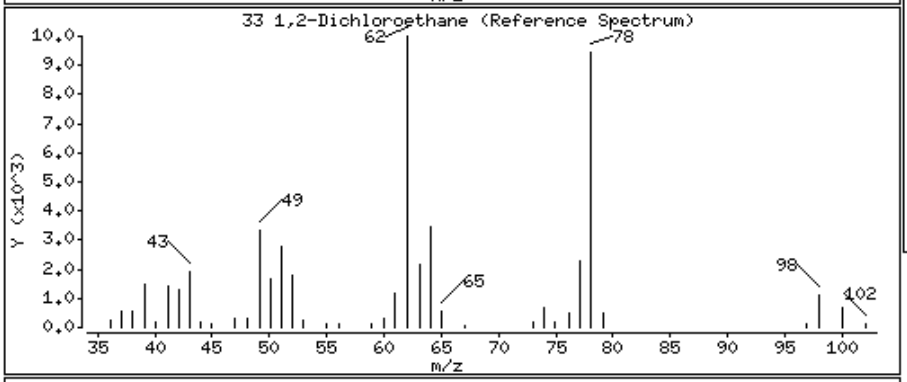
Purge Volume: 5.0 Operator: TS

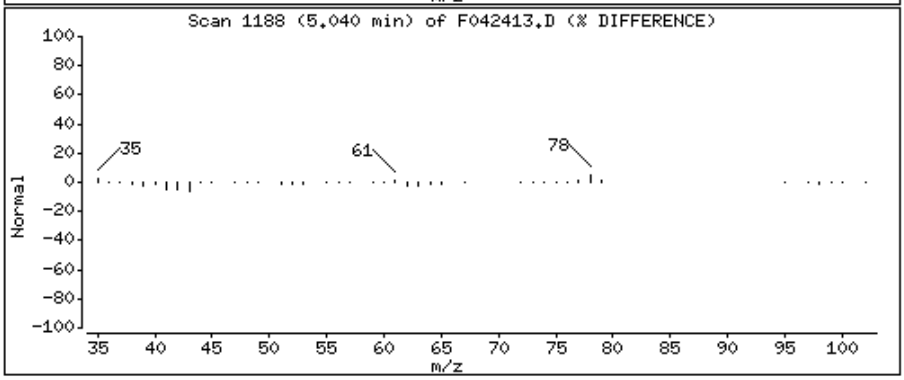
Column phase: DB624 Column diameter: 0.18

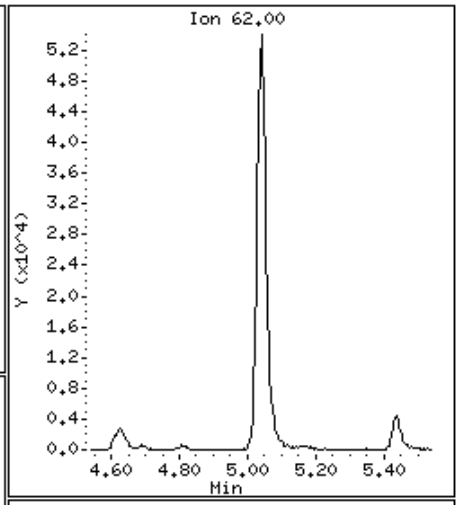
33 1,2-Dichloroethane Concentration: 50.80 ug/l

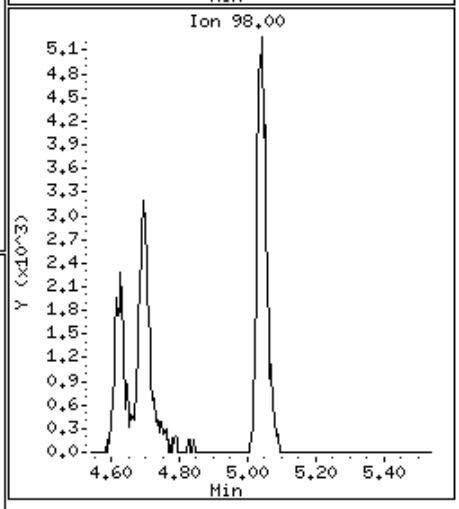












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 33

Date : 24-APR-2024 13:44

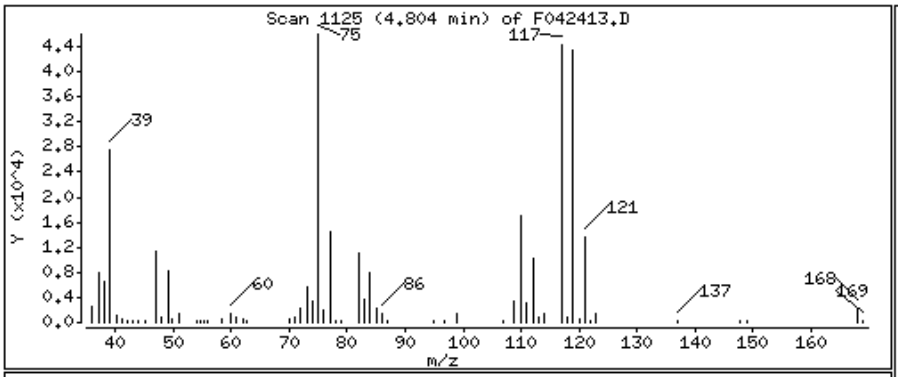
Client ID: VSTD050 Instrument: voa10.i

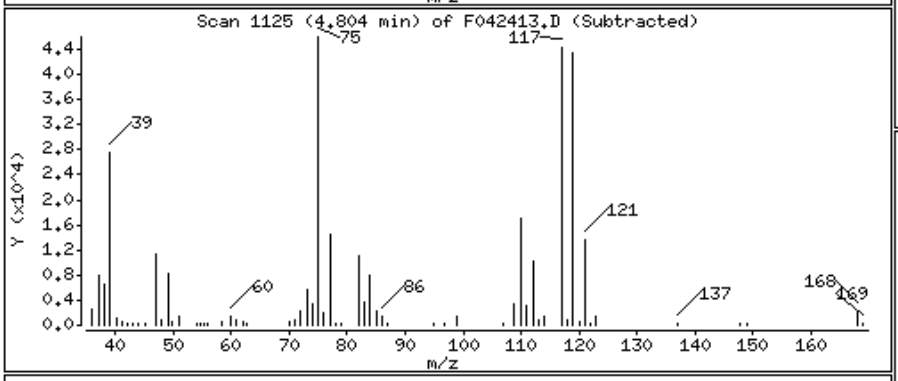
Sample Info: VSTD050;VSTD050;2;;ICV

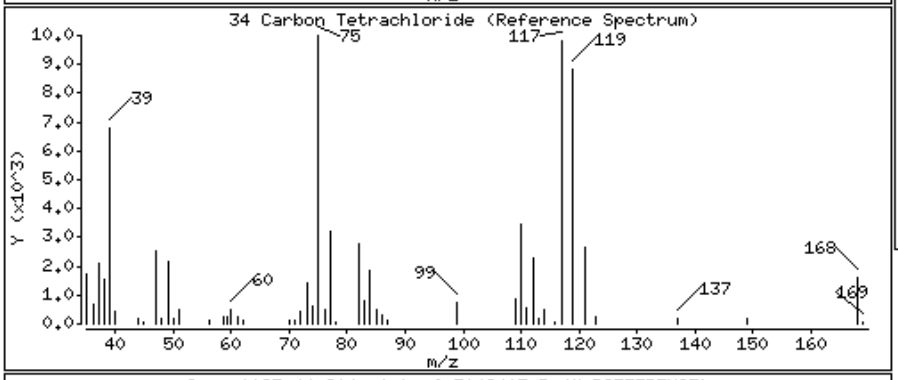
Purge Volume: 5.0 Operator: TS

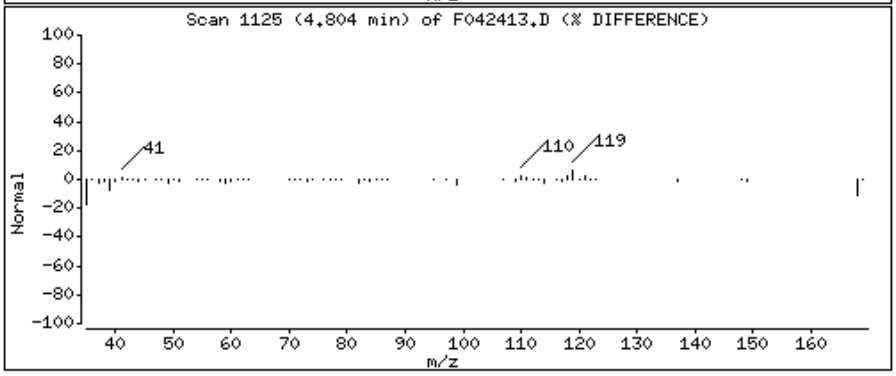
Column phase: DB624 Column diameter: 0.18

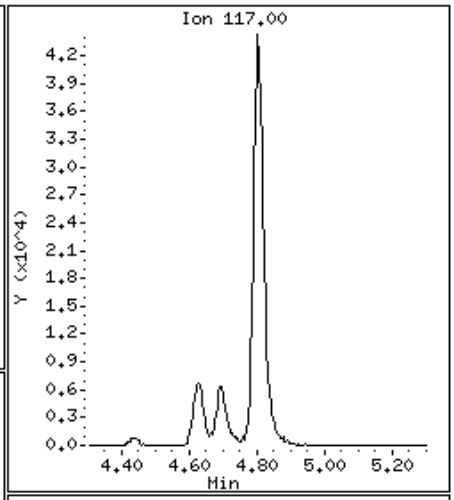
34 Carbon Tetrachloride Concentration: 50.88 ug/l

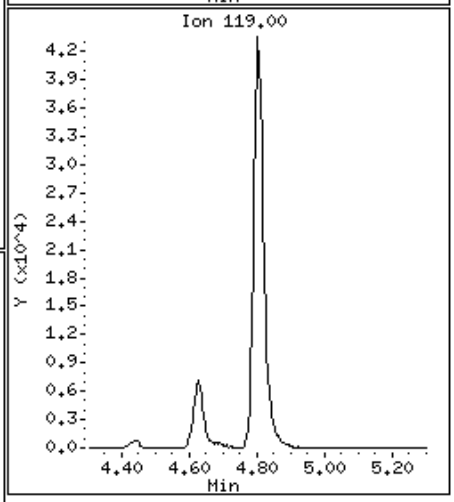












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 34

Date : 24-APR-2024 13:44

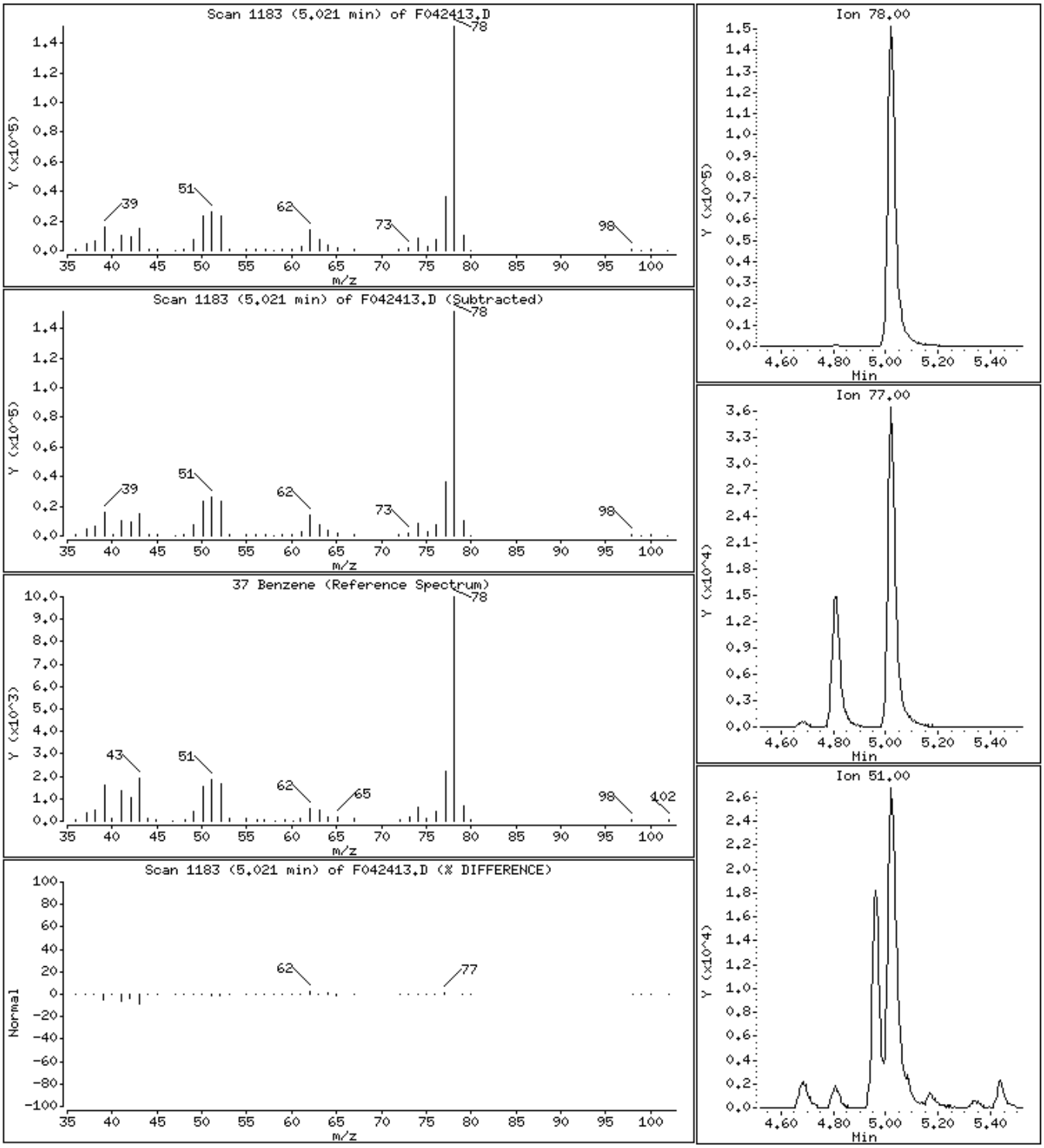
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

37 Benzene Concentration: 51.19 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 35

Date : 24-APR-2024 13:44

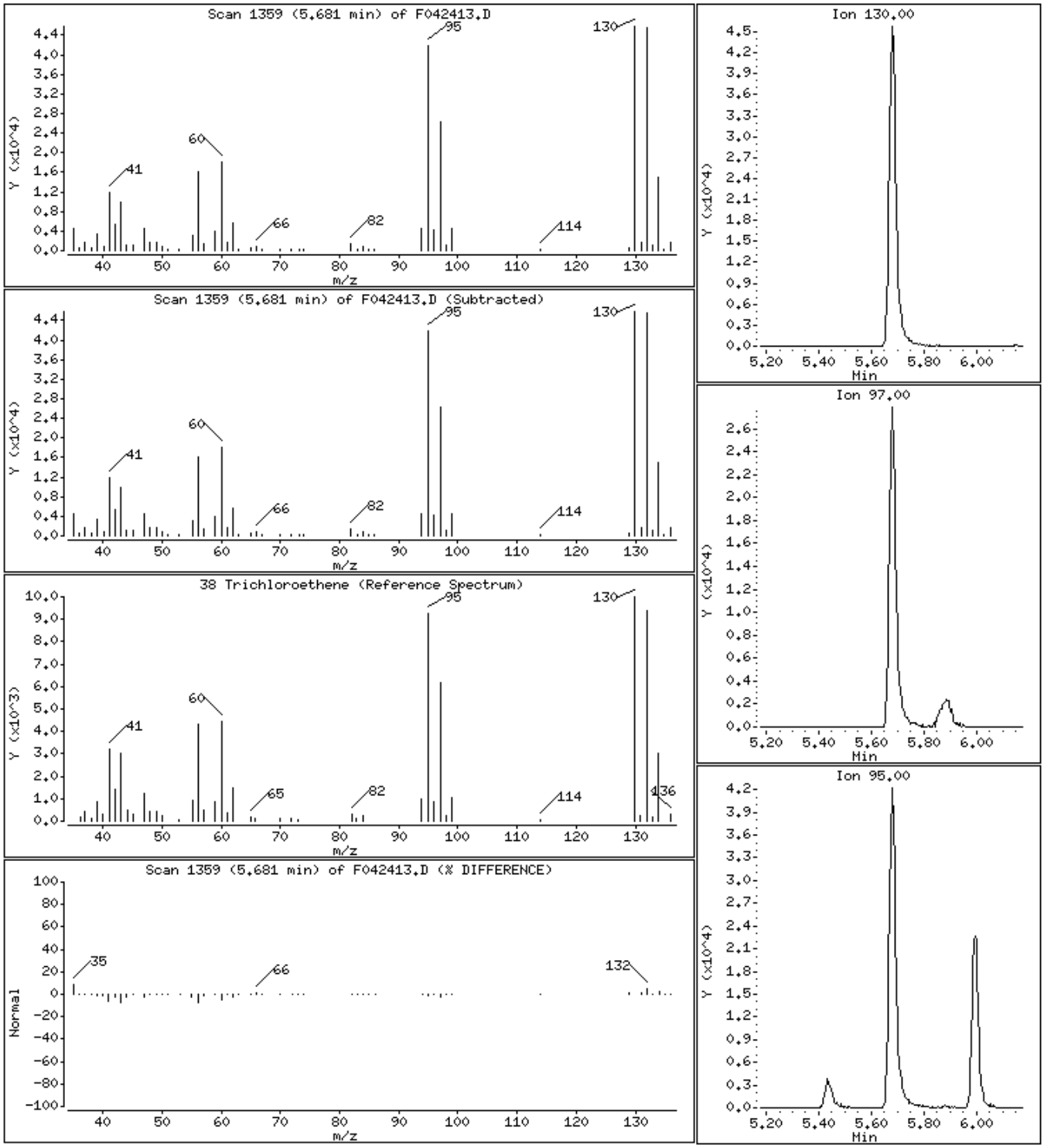
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

38 Trichloroethene Concentration: 48.36 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 36

Date : 24-APR-2024 13:44

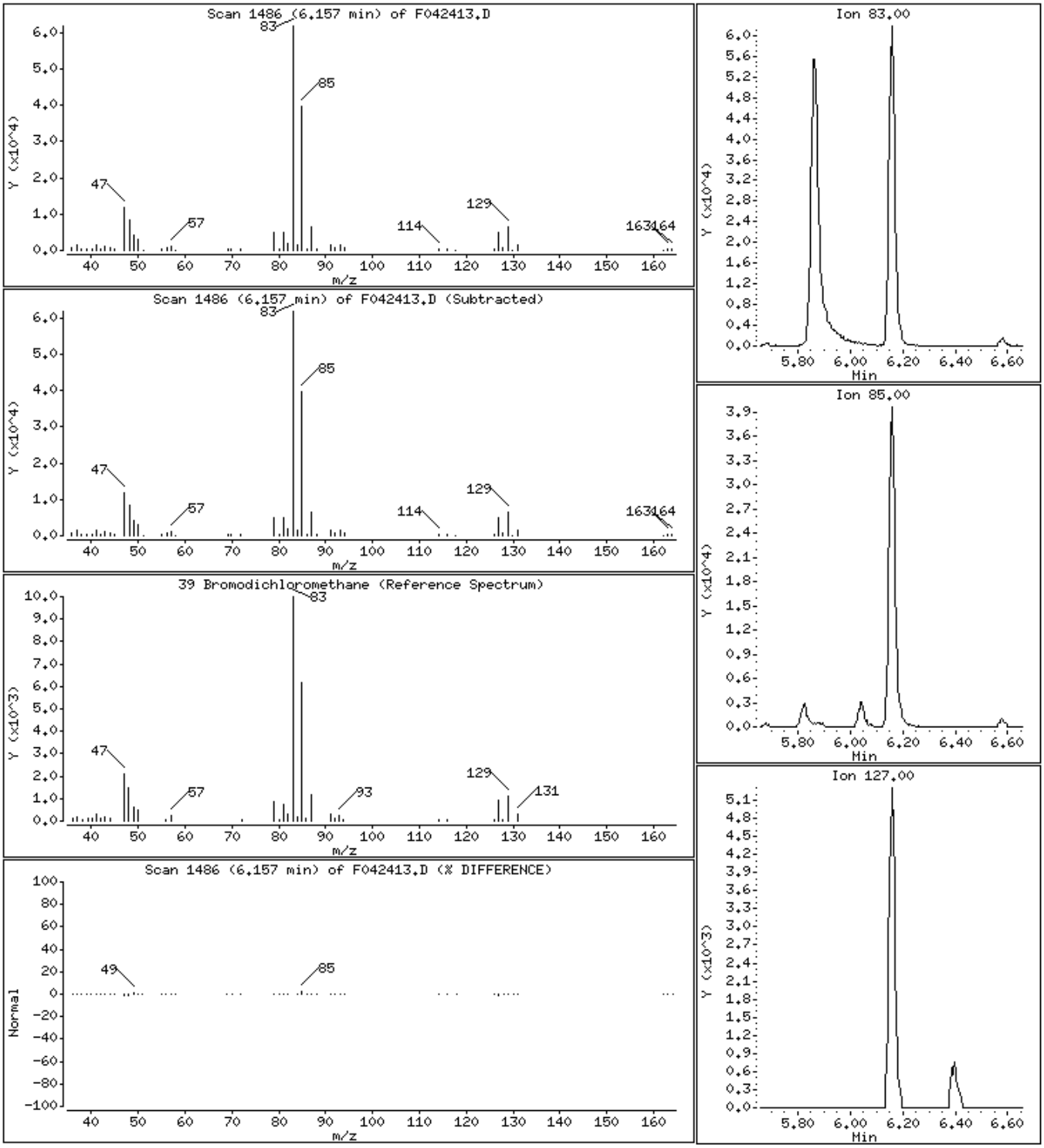
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

39 Bromodichloromethane Concentration: 53.89 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 37

Date : 24-APR-2024 13:44

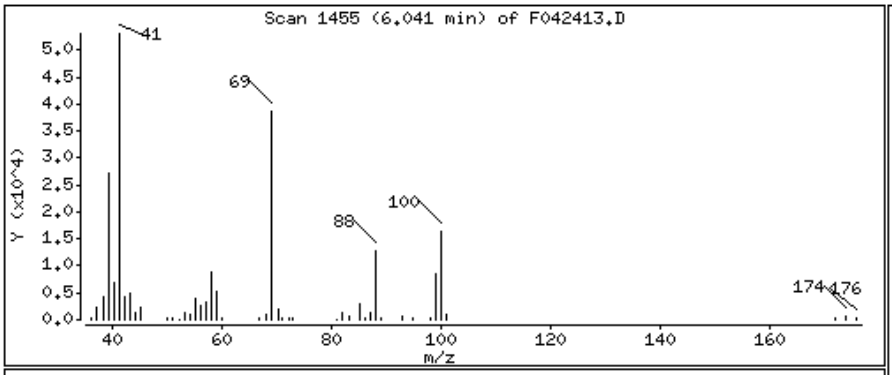
Client ID: VSTD050 Instrument: voa10.i

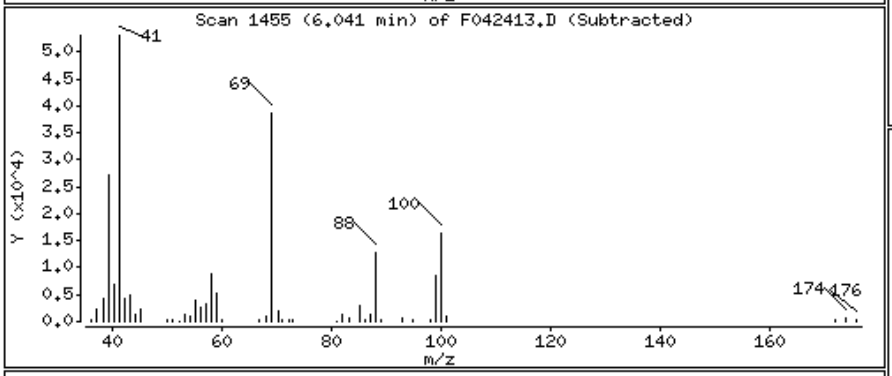
Sample Info: VSTD050;VSTD050;2;;ICV

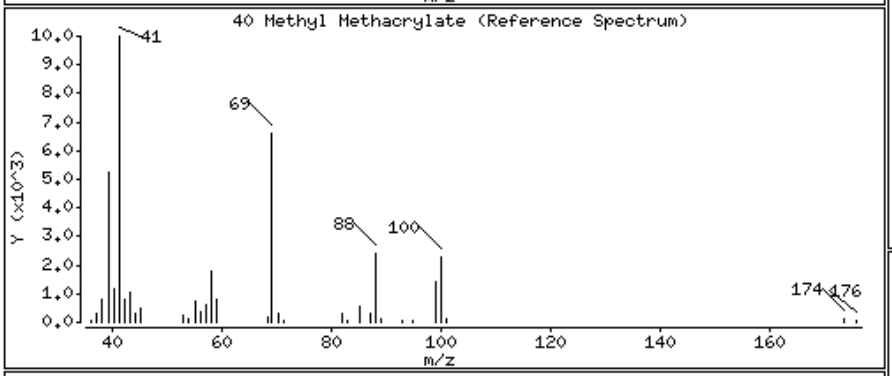
Purge Volume: 5.0 Operator: TS

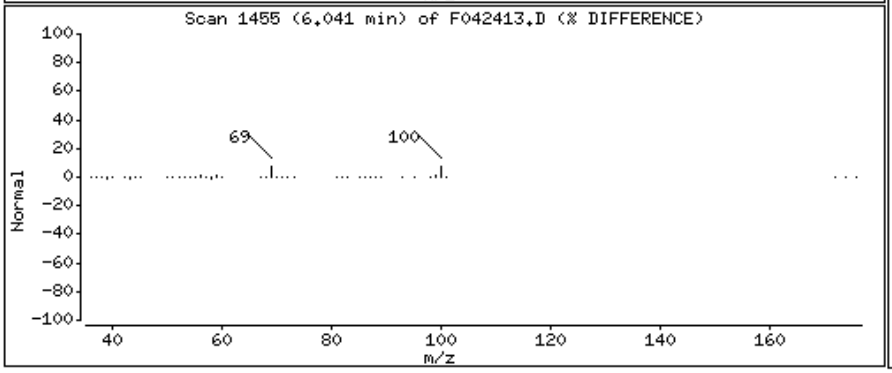
Column phase: DB624 Column diameter: 0.18

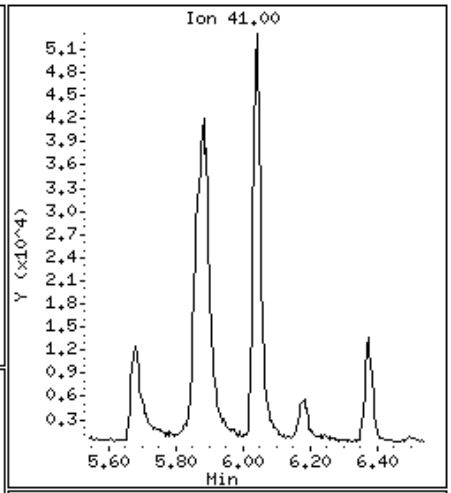
40 Methyl Methacrylate Concentration: 54.55 ug/l

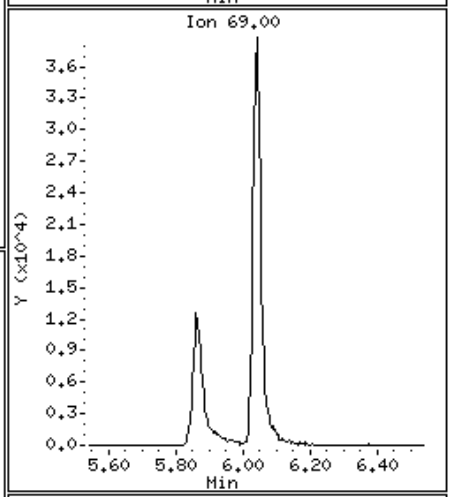


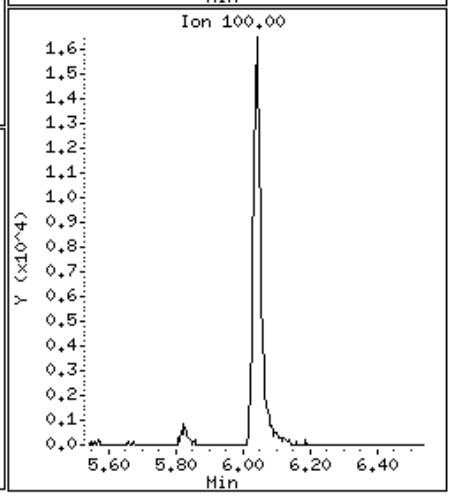












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 38

Date : 24-APR-2024 13:44

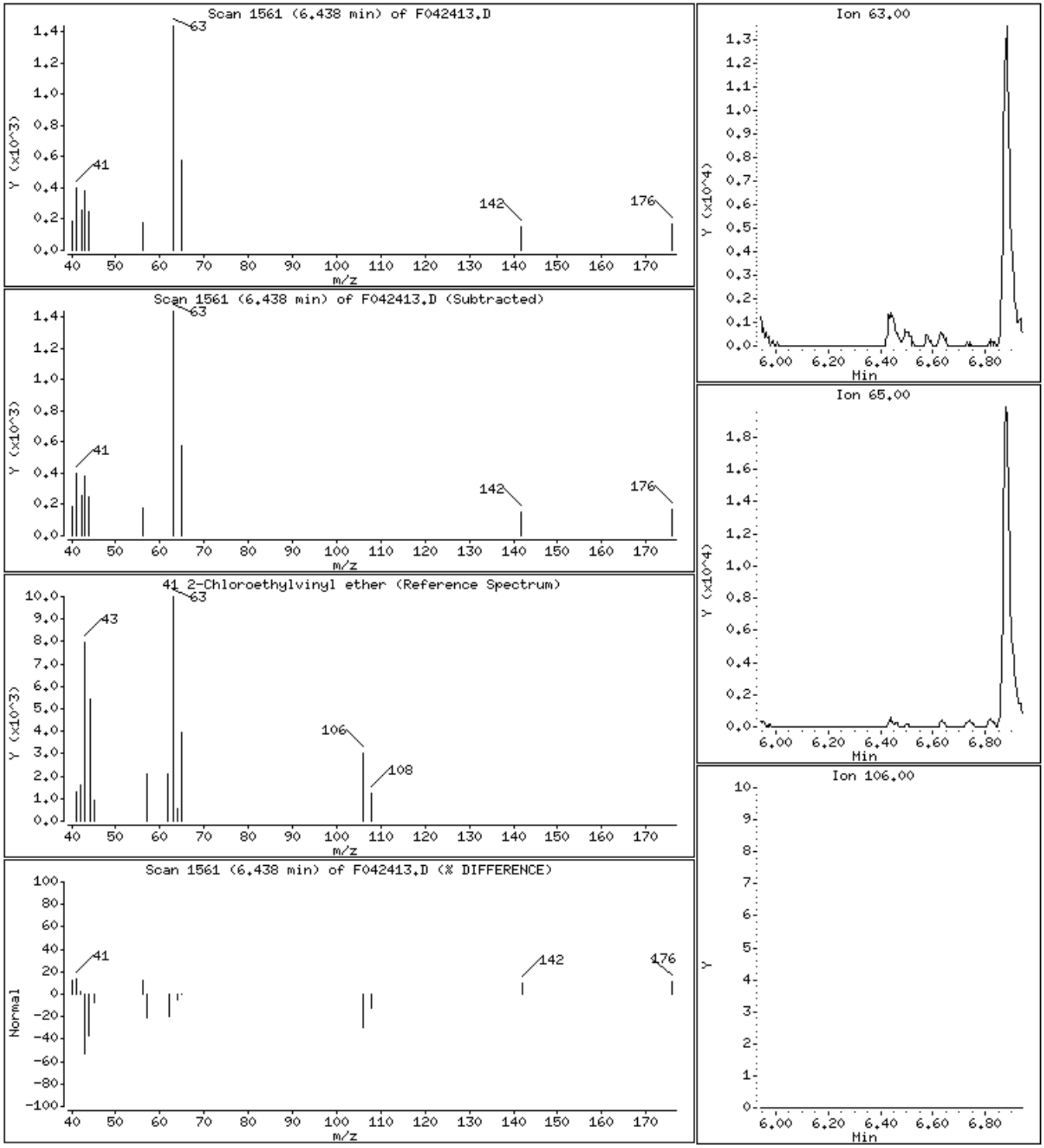
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

41 2-Chloroethylvinyl ether Concentration: 119.87 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 39

Date : 24-APR-2024 13:44

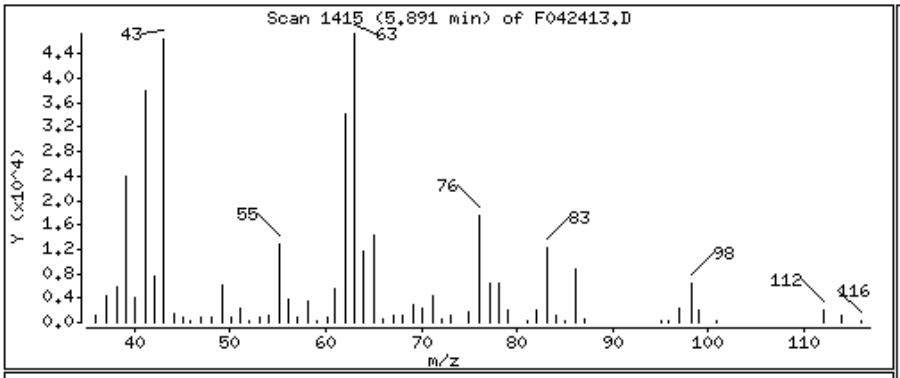
Client ID: VSTD050 Instrument: voa10.i

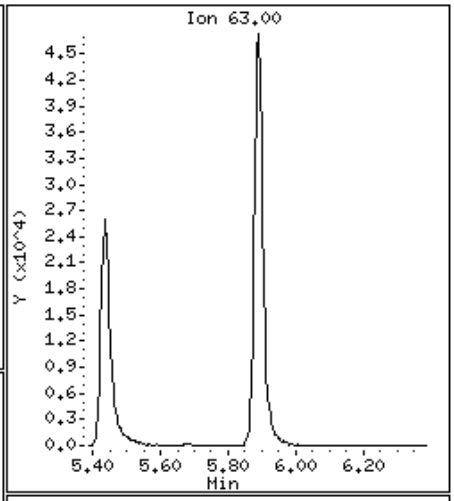
Sample Info: VSTD050;VSTD050;2;;ICV

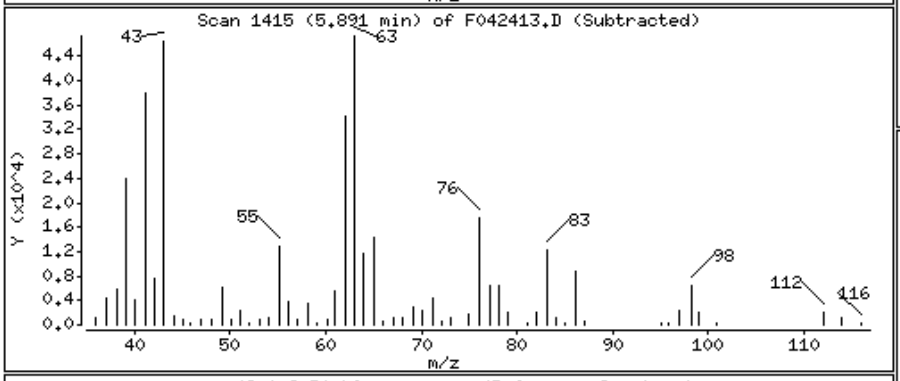
Purge Volume: 5.0 Operator: TS

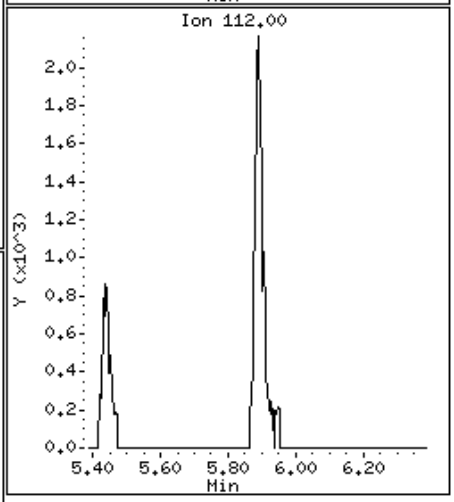
Column phase: DB624 Column diameter: 0.18

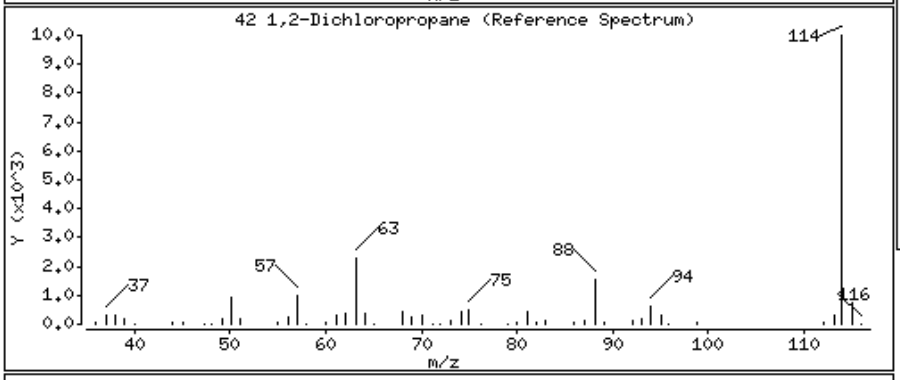
42 1,2-Dichloropropane Concentration: 53.44 ug/l

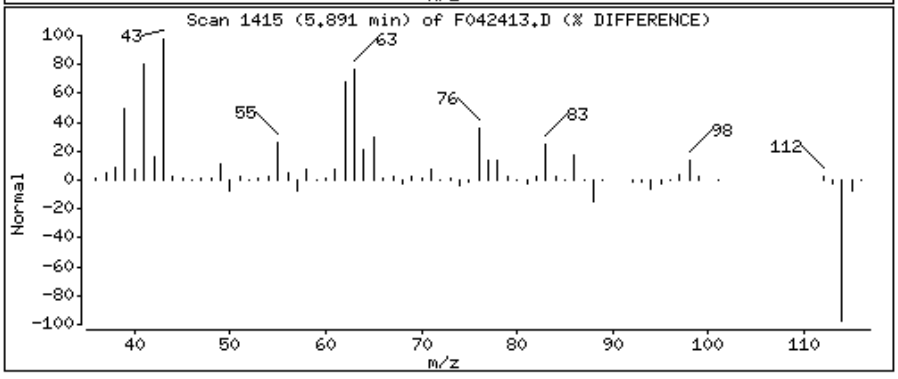












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 40

Date : 24-APR-2024 13:44

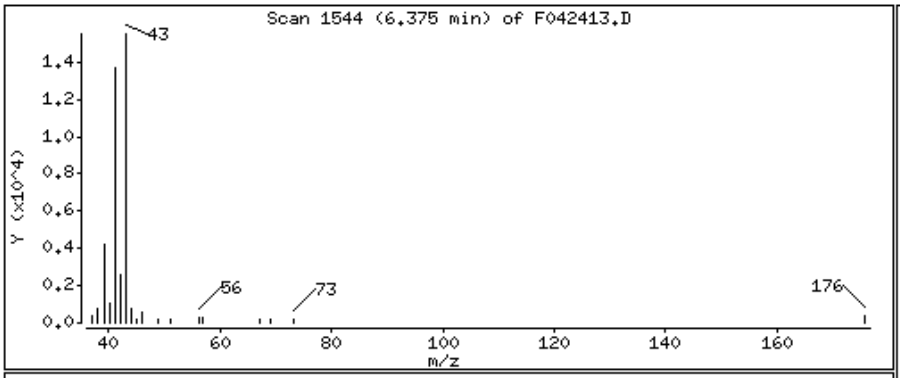
Client ID: VSTD050 Instrument: voa10.i

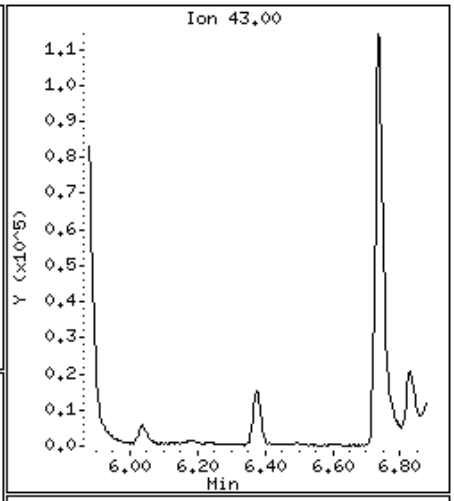
Sample Info: VSTD050;VSTD050;2;;ICV

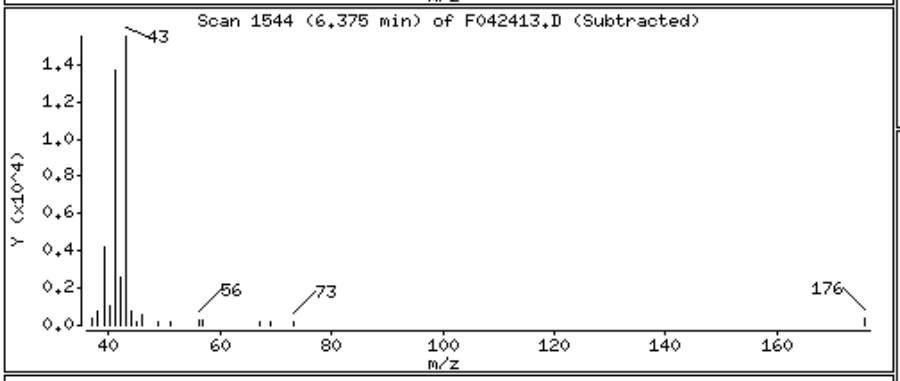
Purge Volume: 5.0 Operator: TS

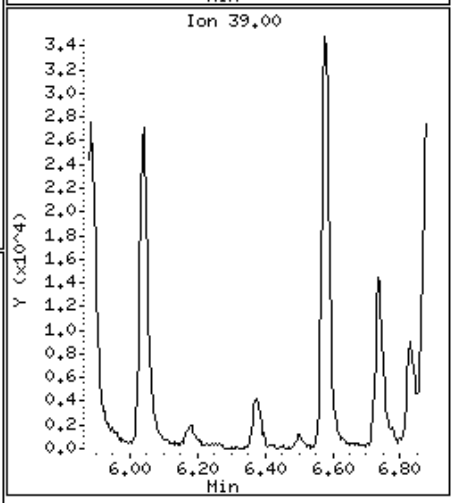
Column phase: DB624 Column diameter: 0.18

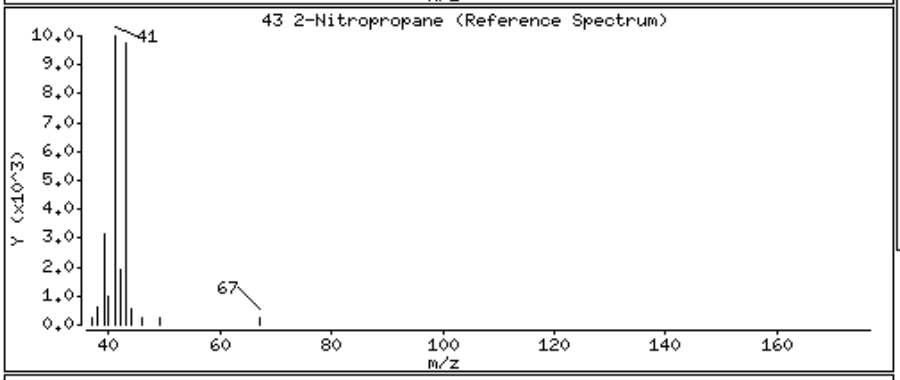
43 2-Nitropropane Concentration: 50.45 ug/l

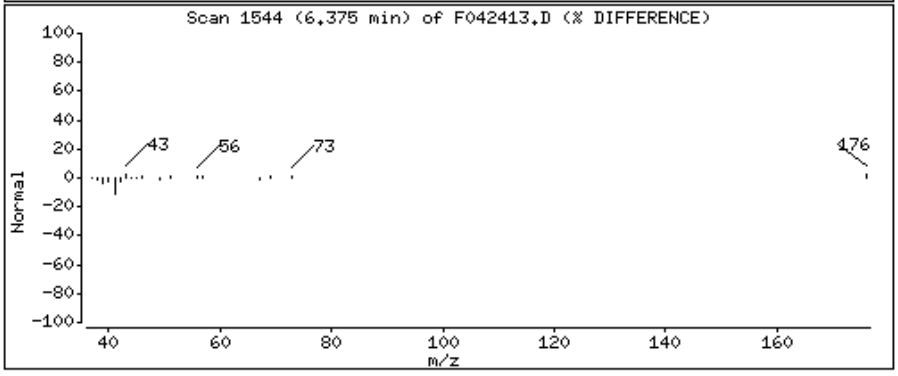












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

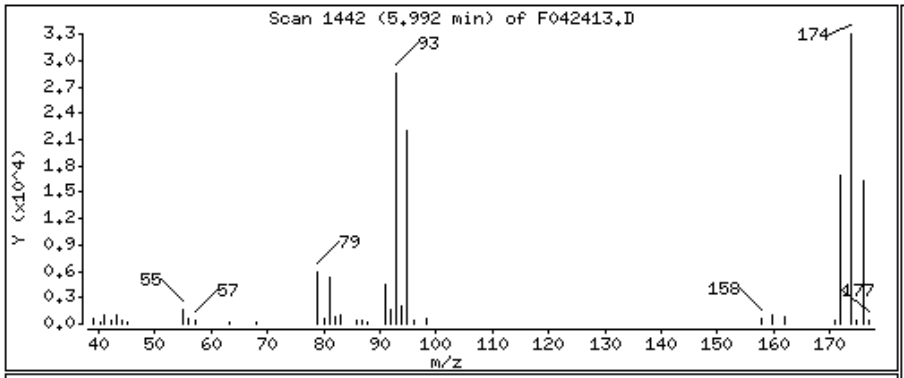
Operator: TS

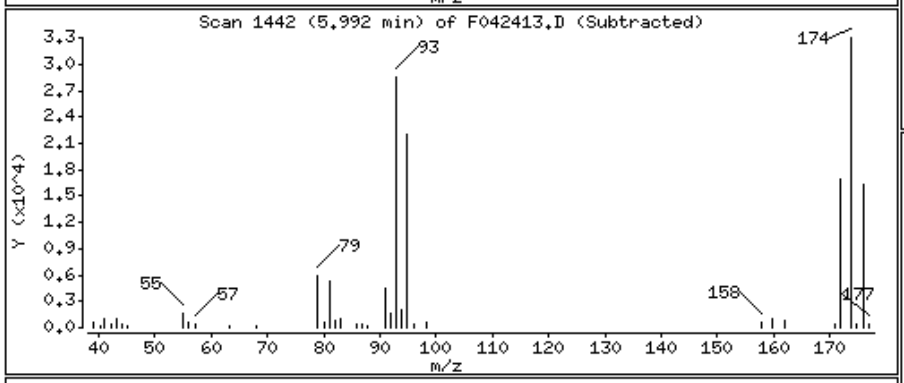
Column phase: DB624

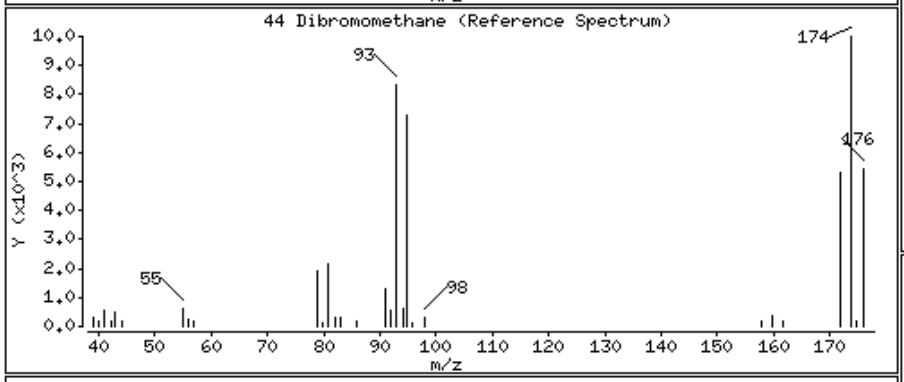
Column diameter: 0.18

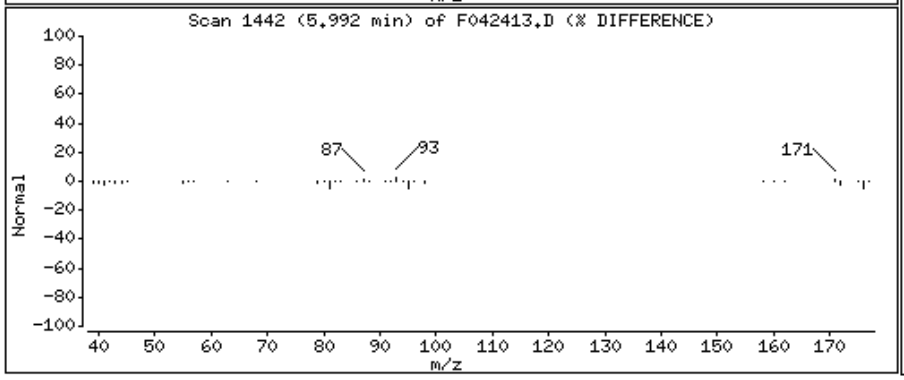
44 Dibromomethane

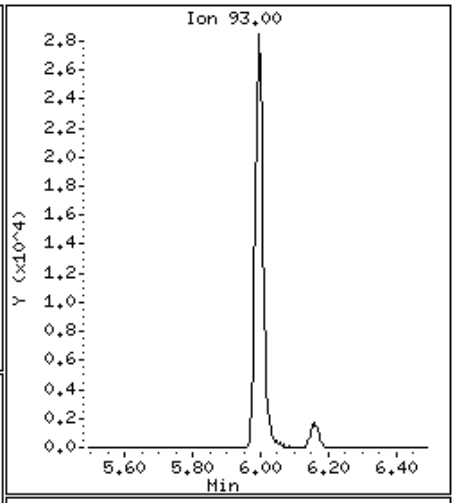
Concentration: 52.19 ug/l

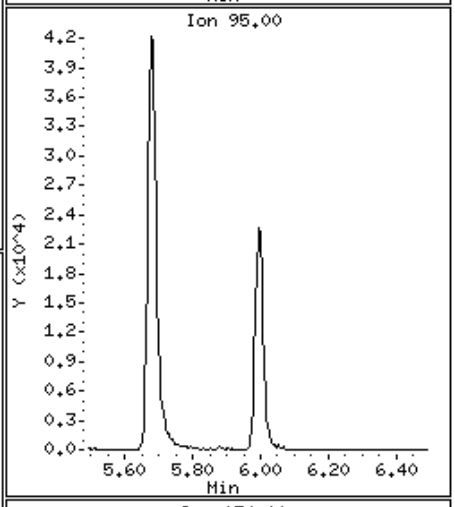


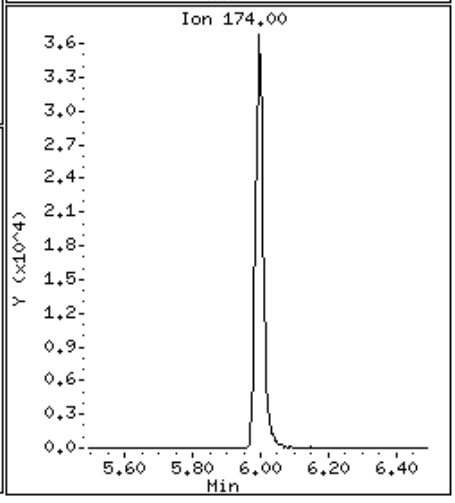












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 42

Date : 24-APR-2024 13:44

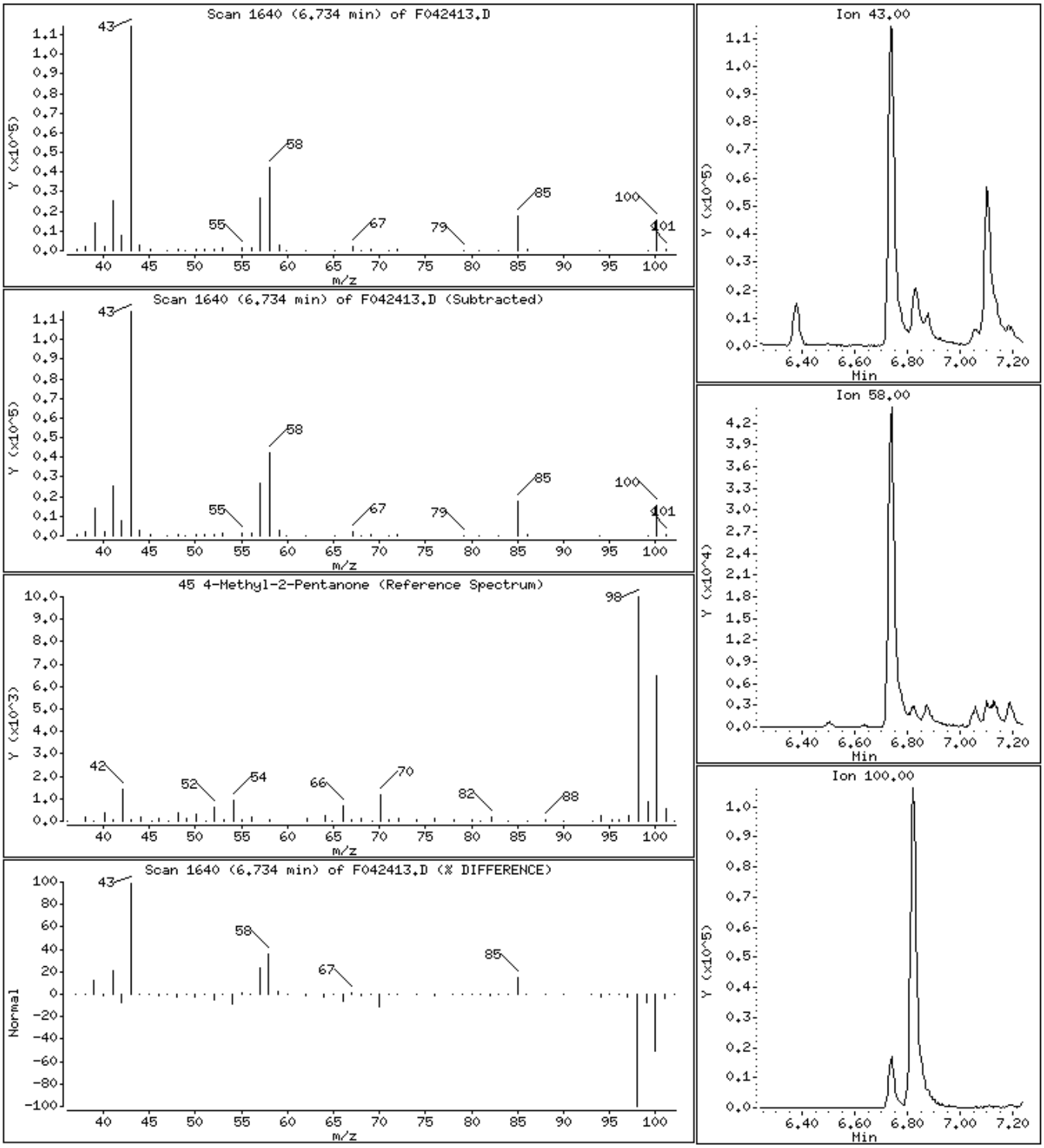
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

45 4-Methyl-2-Pentanone Concentration: 114.26 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 43

Date : 24-APR-2024 13:44

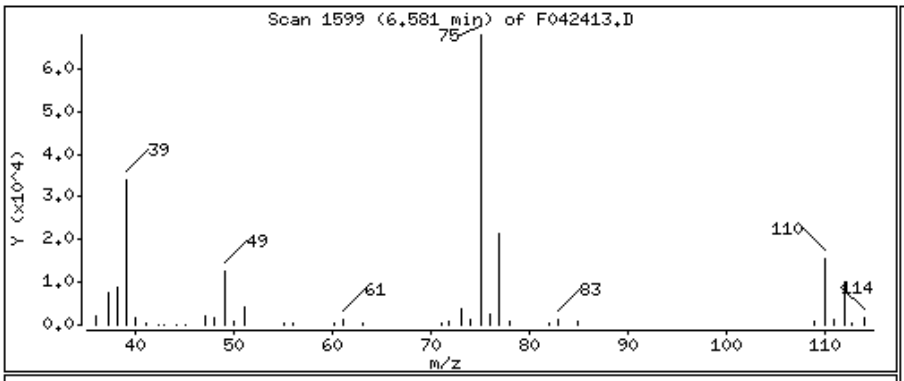
Client ID: VSTD050 Instrument: voa10.i

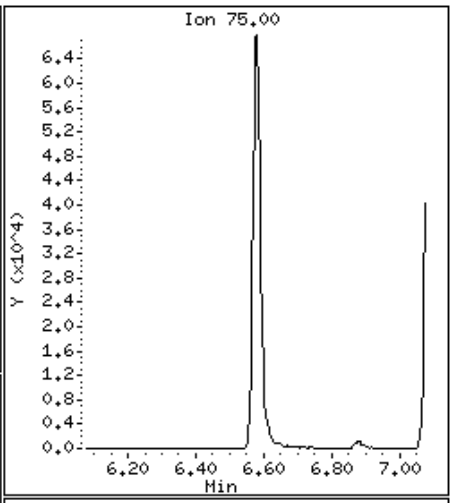
Sample Info: VSTD050;VSTD050;2;;ICV

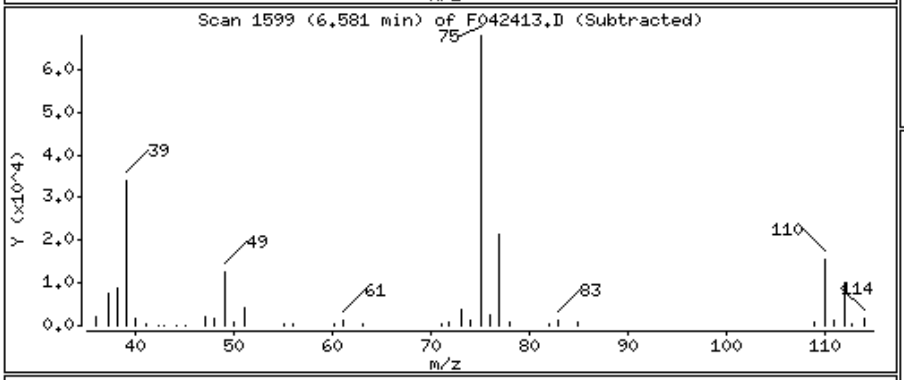
Purge Volume: 5.0 Operator: TS

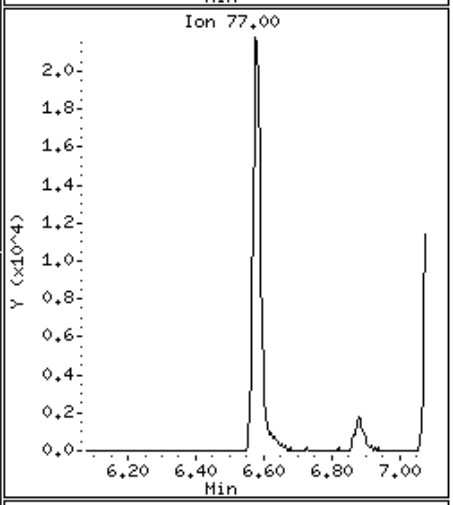
Column phase: DB624 Column diameter: 0.18

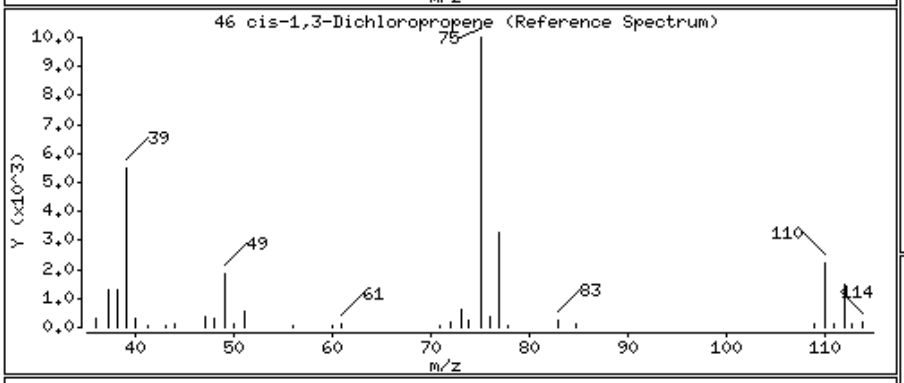
46 cis-1,3-Dichloropropene Concentration: 53.38 ug/l

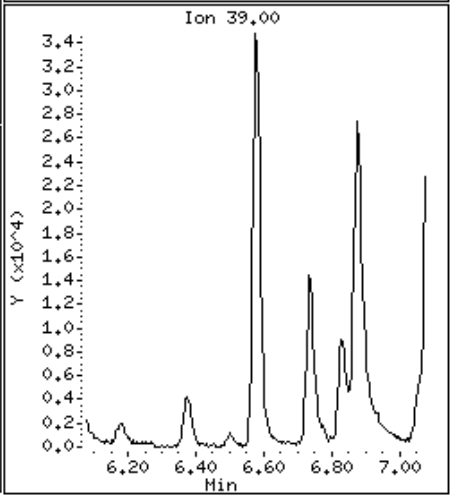


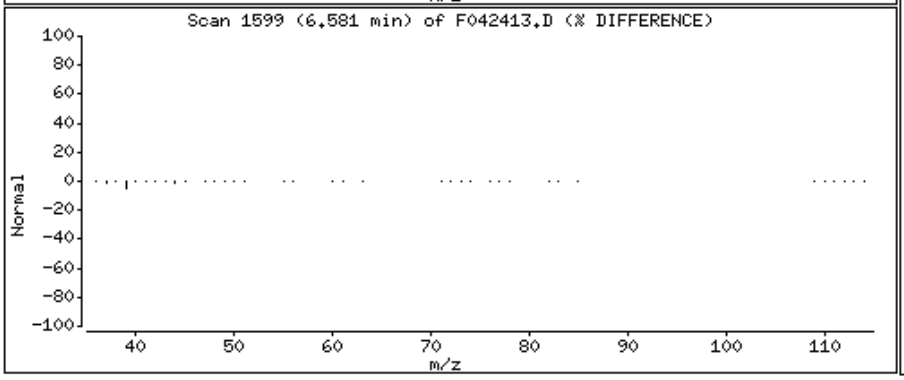












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 44

Date : 24-APR-2024 13:44

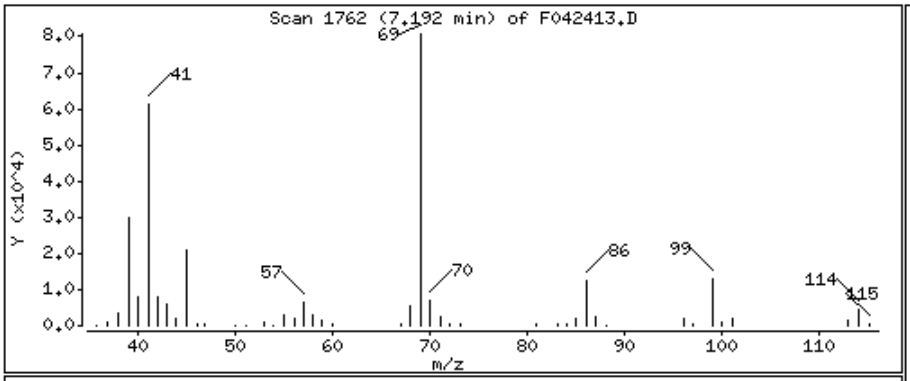
Client ID: VSTD050 Instrument: voa10.i

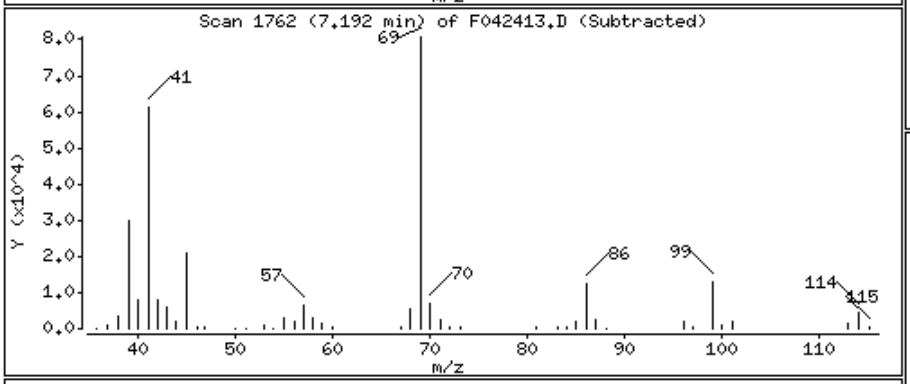
Sample Info: VSTD050;VSTD050;2;;ICV

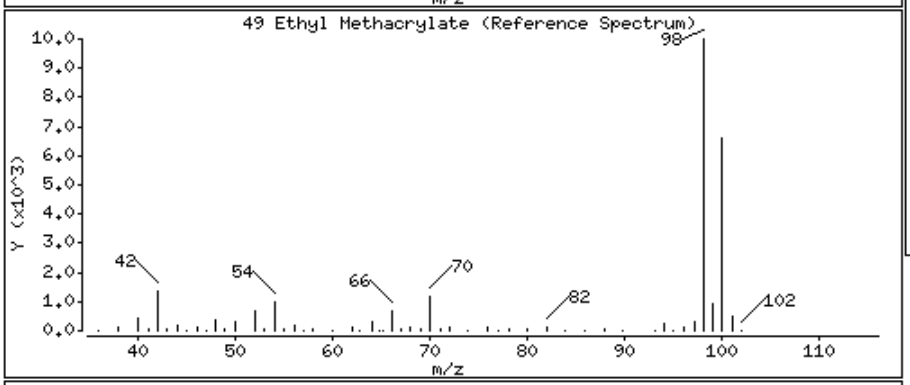
Purge Volume: 5.0 Operator: TS

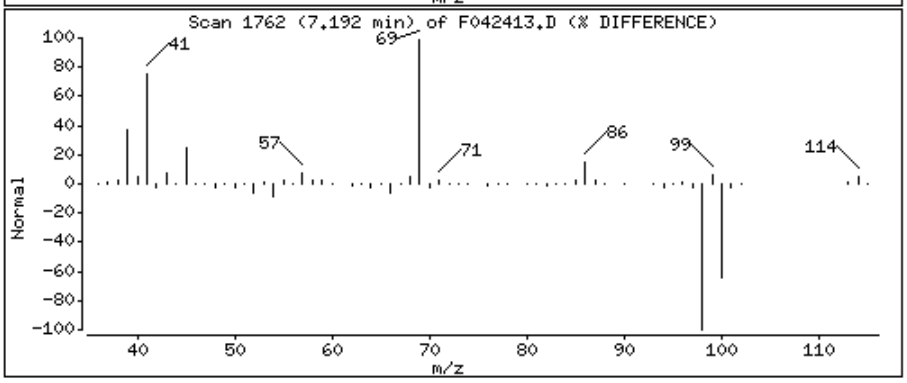
Column phase: DB624 Column diameter: 0.18

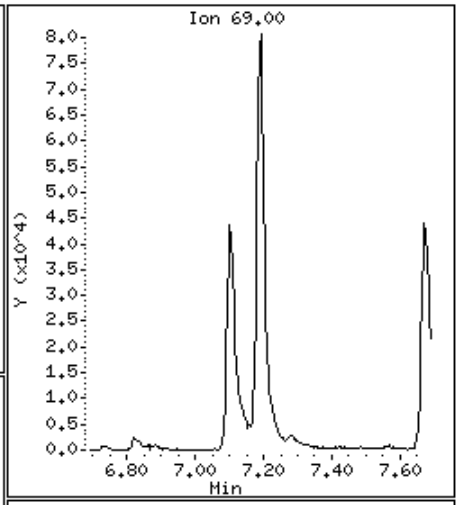
49 Ethyl Methacrylate Concentration: 58.36 ug/l

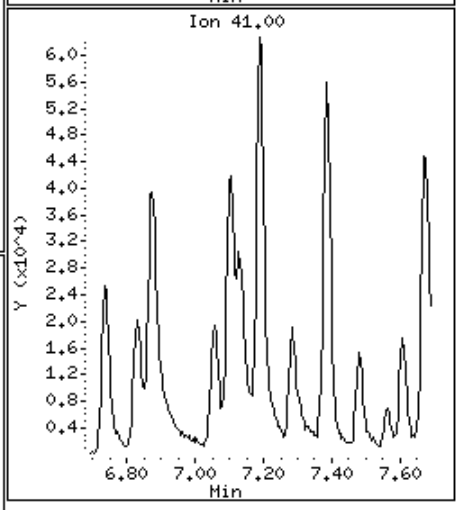












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 45

Date : 24-APR-2024 13:44

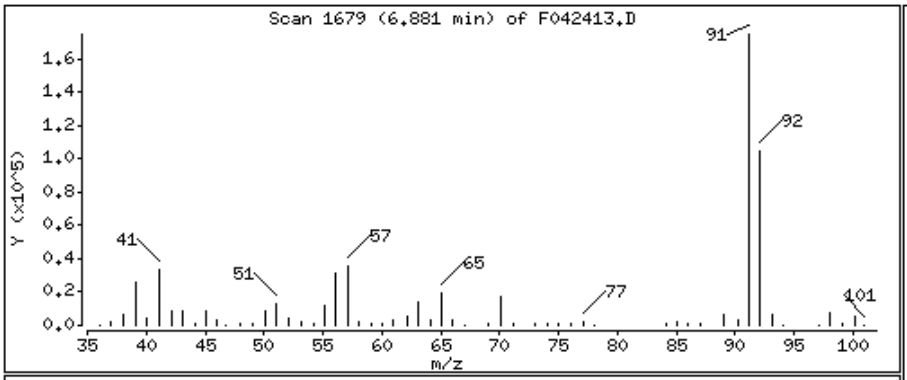
Client ID: VSTD050 Instrument: voa10.i

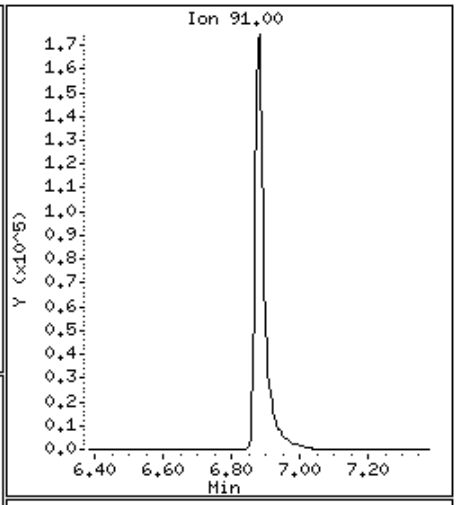
Sample Info: VSTD050;VSTD050;2;;ICV

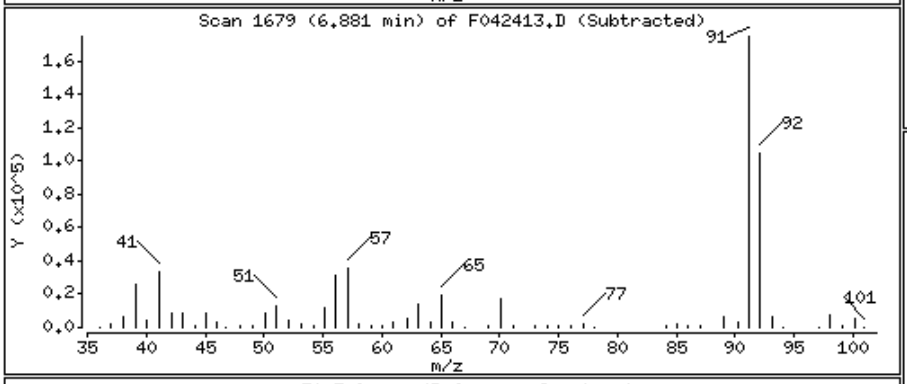
Purge Volume: 5.0 Operator: TS

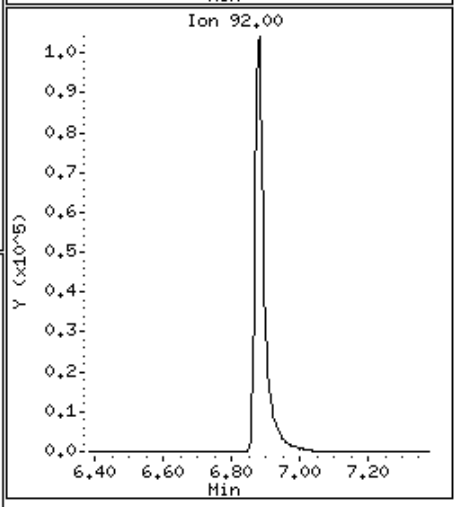
Column phase: DB624 Column diameter: 0.18

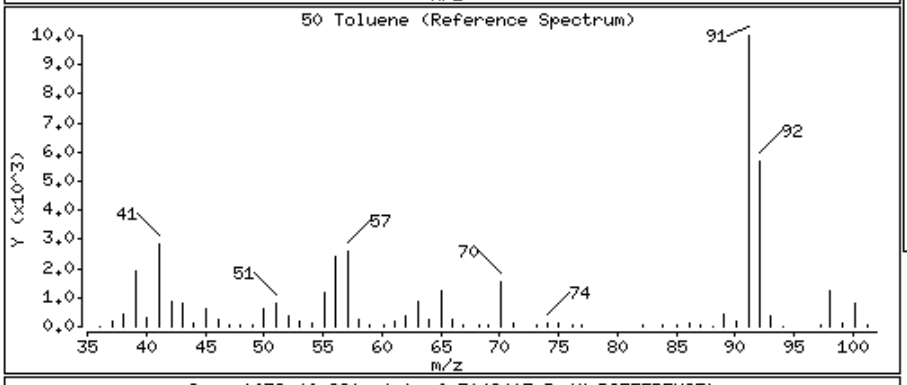
50 Toluene Concentration: 50.84 ug/l

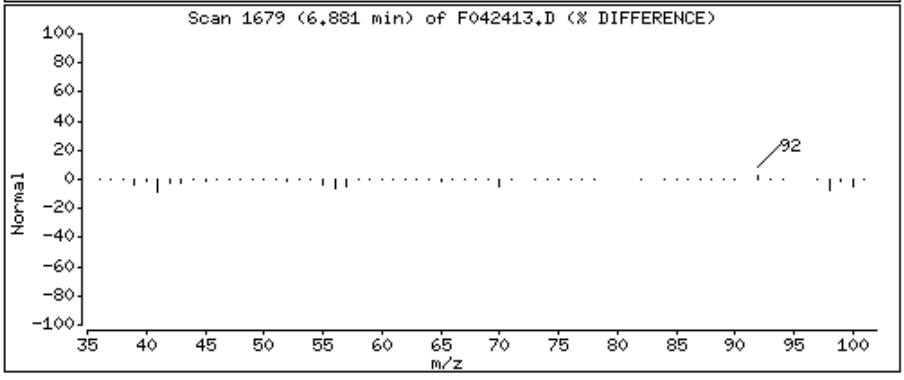












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 46

Date : 24-APR-2024 13:44

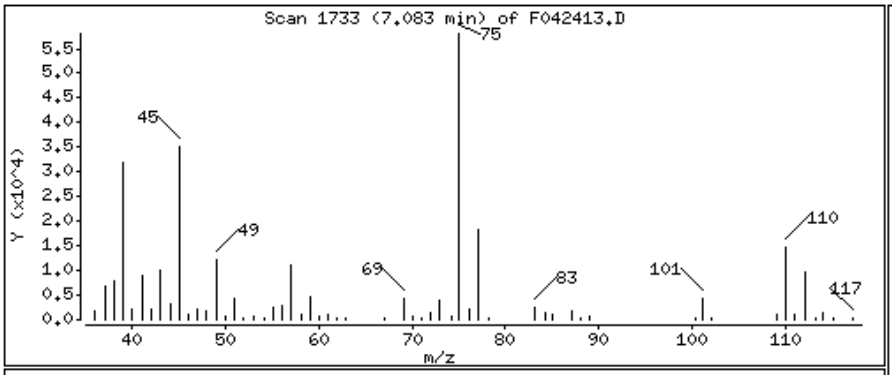
Client ID: VSTD050 Instrument: voa10.i

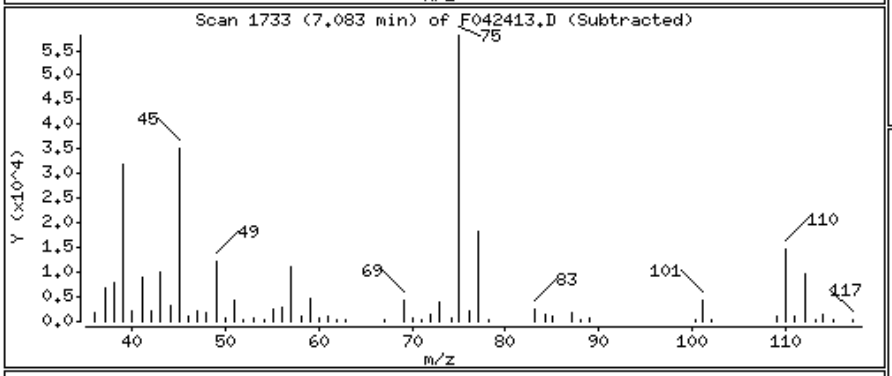
Sample Info: VSTD050;VSTD050;2;;ICV

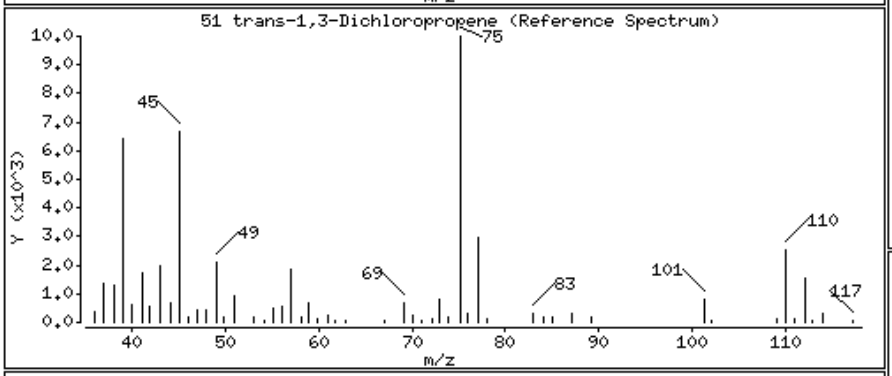
Purge Volume: 5.0 Operator: TS

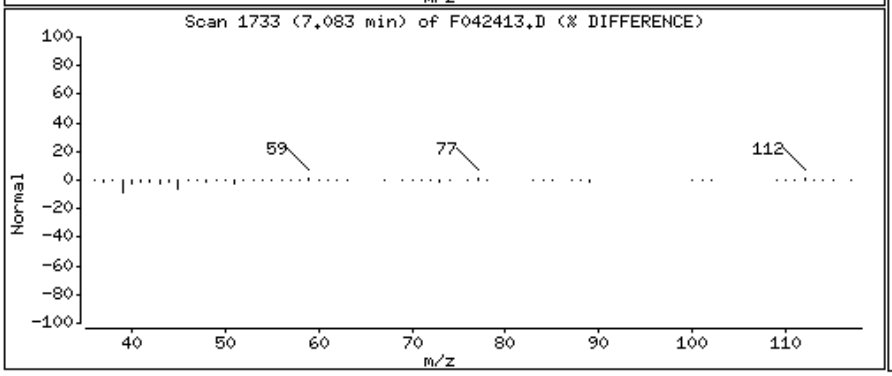
Column phase: DB624 Column diameter: 0.18

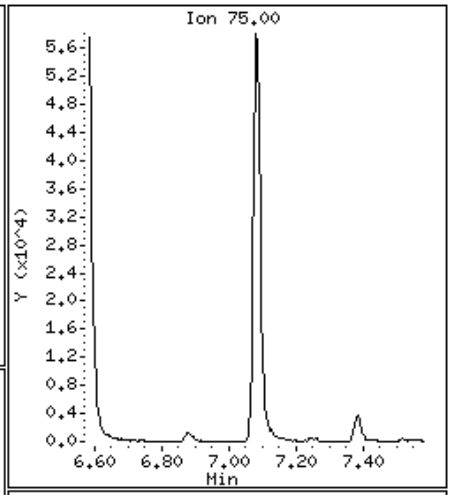
51 trans-1,3-Dichloropropene Concentration: 47.86 ug/l

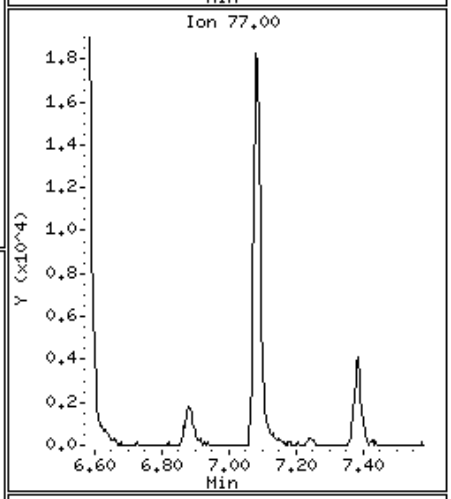


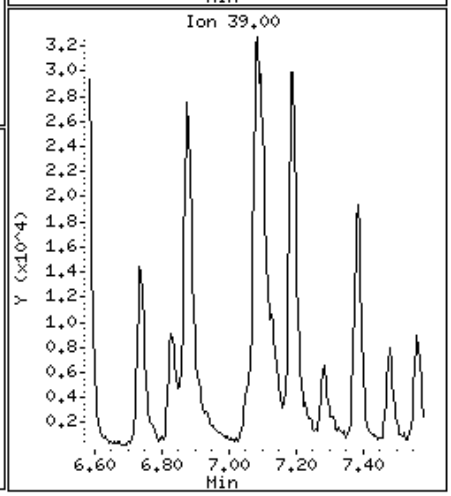












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 47

Date : 24-APR-2024 13:44

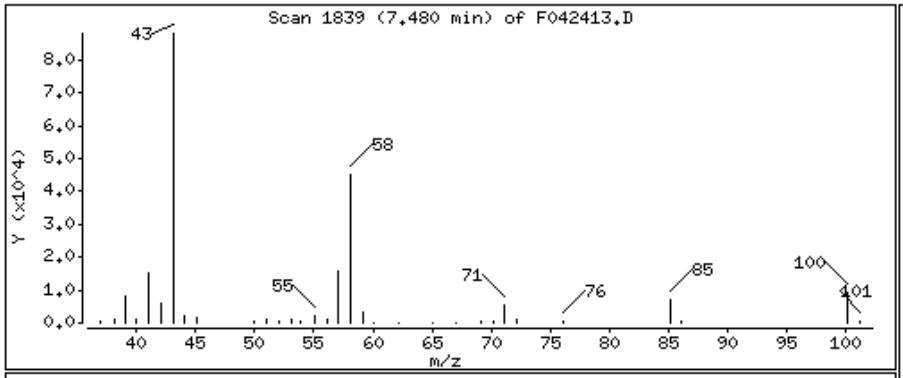
Client ID: VSTD050 Instrument: voa10.i

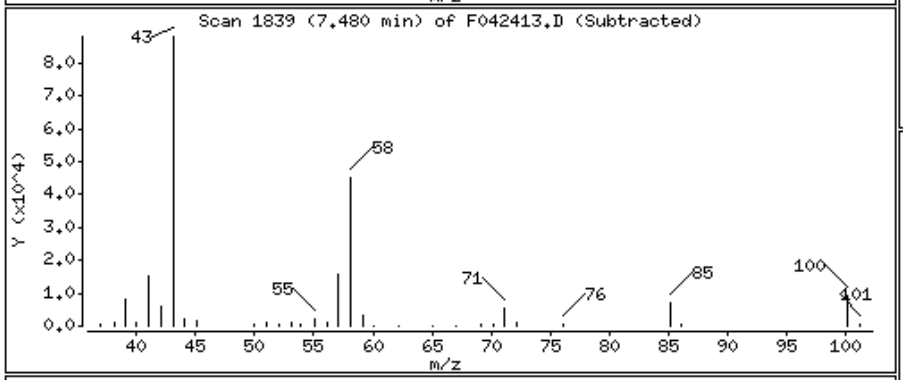
Sample Info: VSTD050;VSTD050;2;;ICV

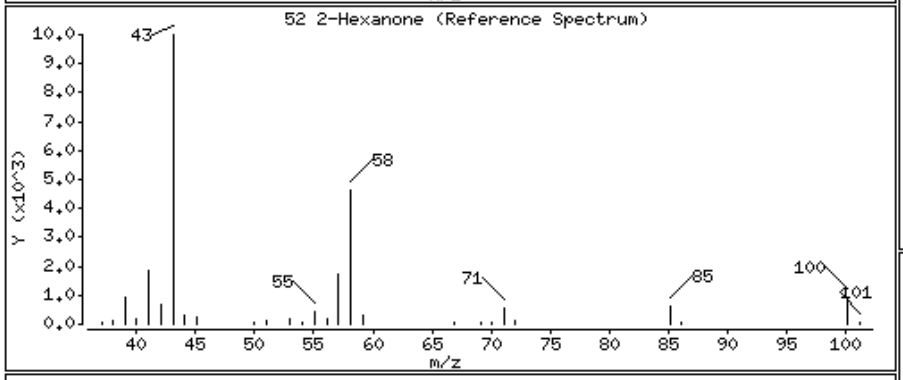
Purge Volume: 5.0 Operator: TS

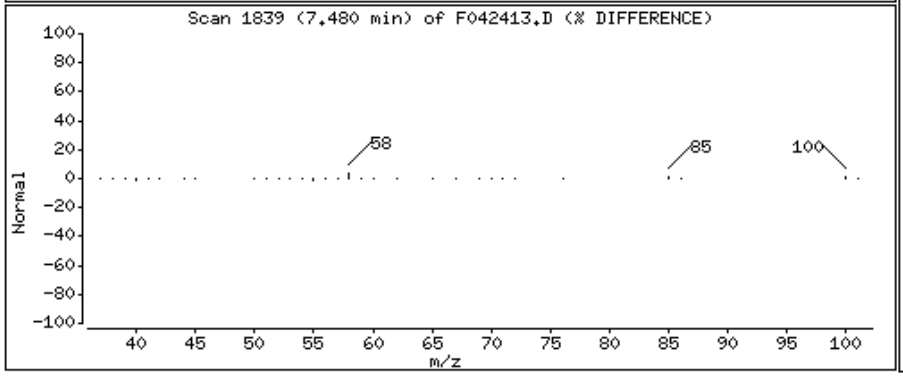
Column phase: DB624 Column diameter: 0.18

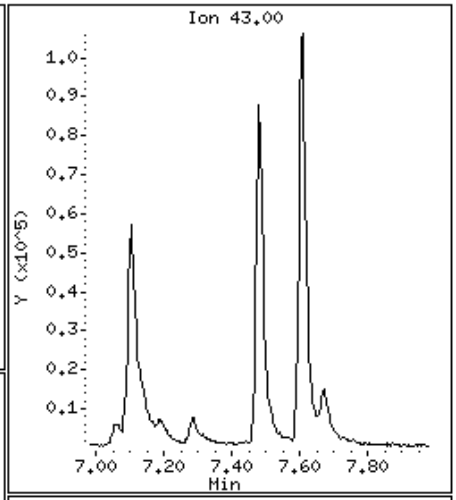
52 2-Hexanone Concentration: 102.77 ug/l

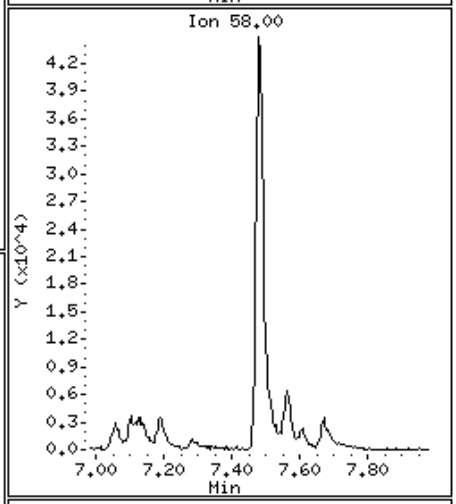


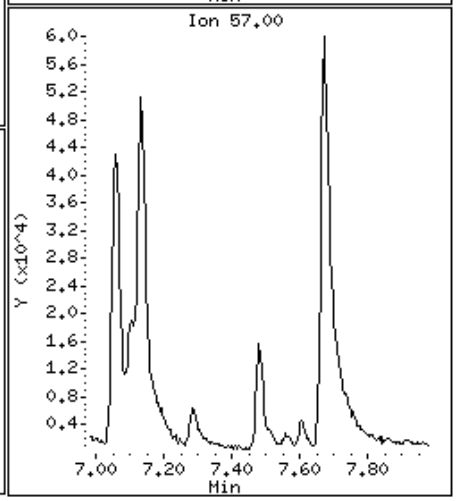












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 48

Date : 24-APR-2024 13:44

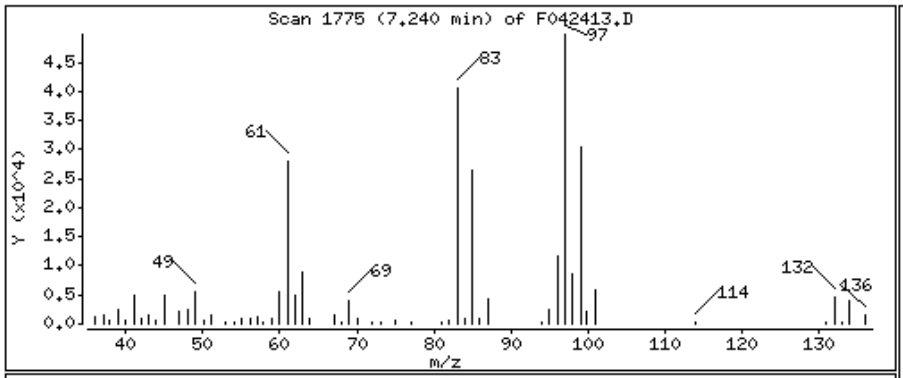
Client ID: VSTD050 Instrument: voa10.i

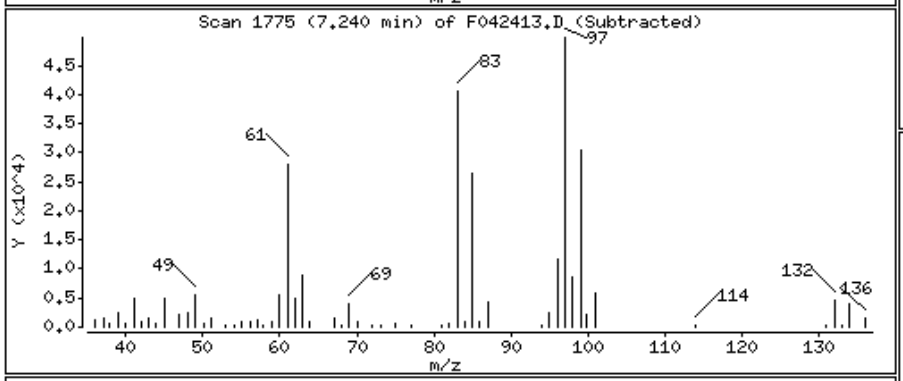
Sample Info: VSTD050;VSTD050;2;;ICV

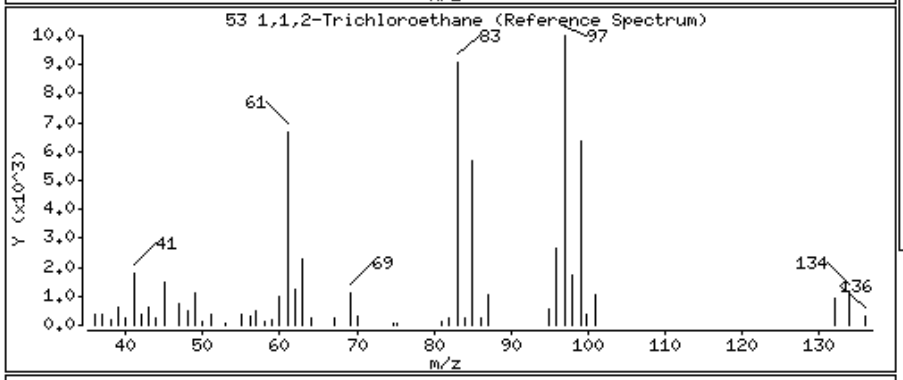
Purge Volume: 5.0 Operator: TS

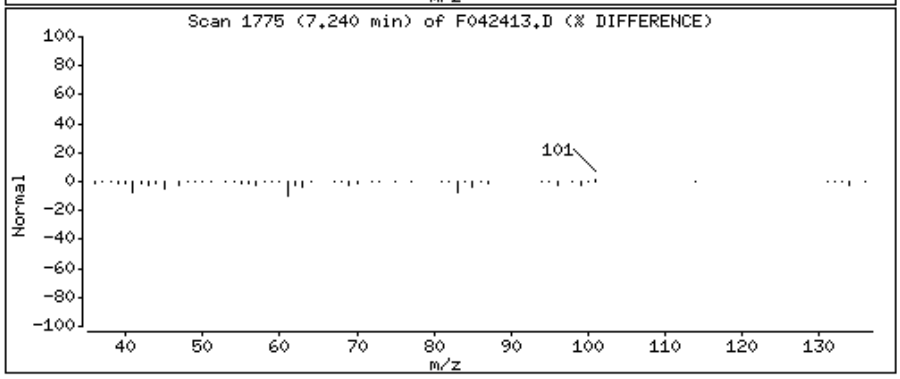
Column phase: DB624 Column diameter: 0.18

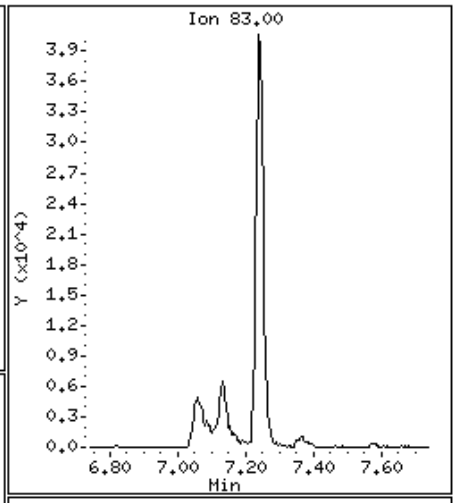
53 1,1,2-Trichloroethane Concentration: 52.58 ug/l

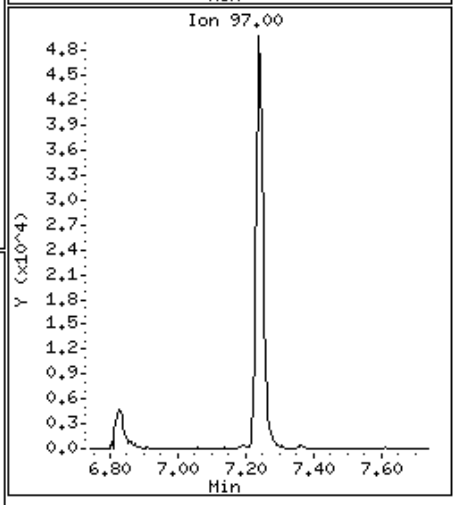












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 49

Date : 24-APR-2024 13:44

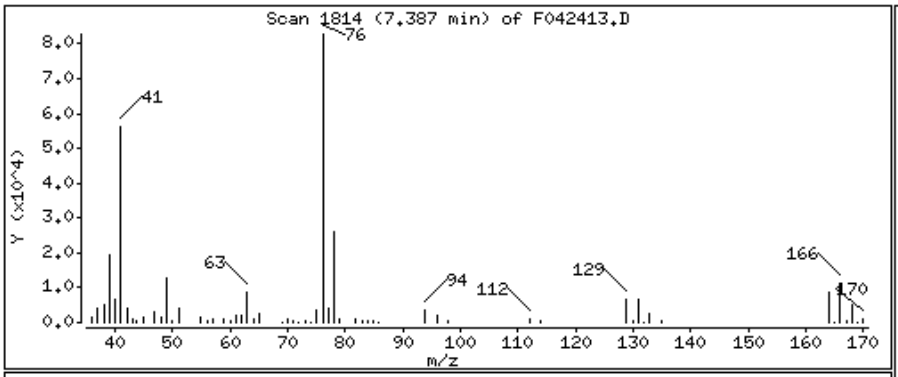
Client ID: VSTD050 Instrument: voa10.i

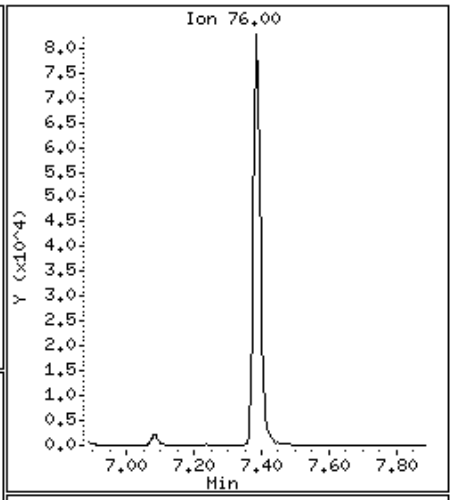
Sample Info: VSTD050;VSTD050;2;;ICV

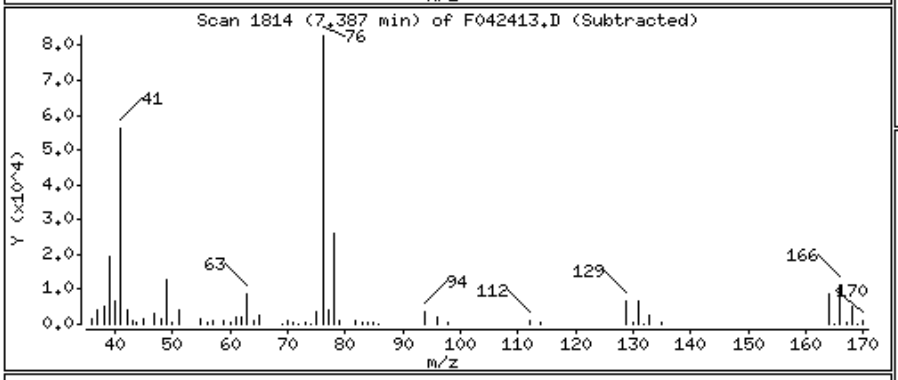
Purge Volume: 5.0 Operator: TS

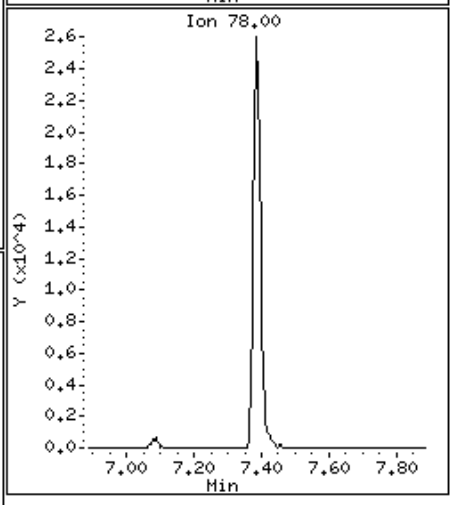
Column phase: DB624 Column diameter: 0.18

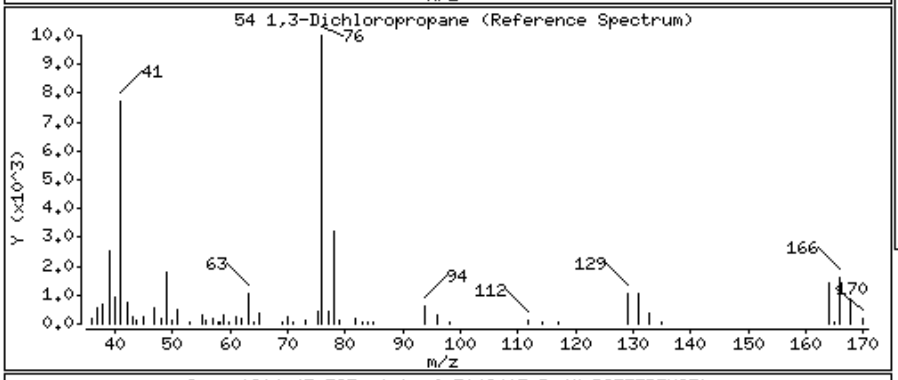
54 1,3-Dichloropropane Concentration: 50.29 ug/l

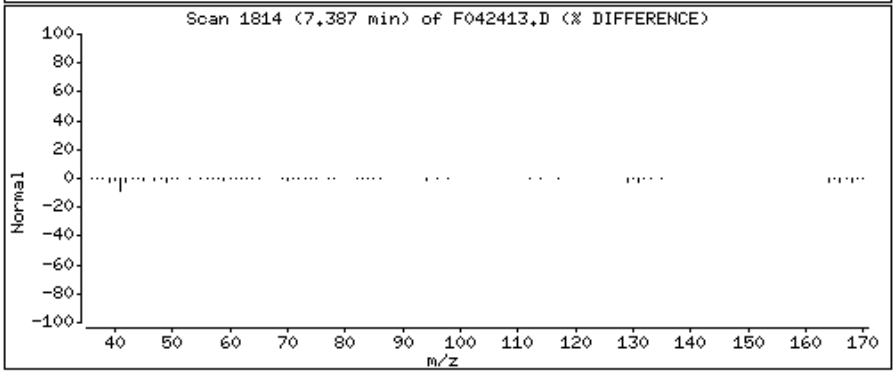












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

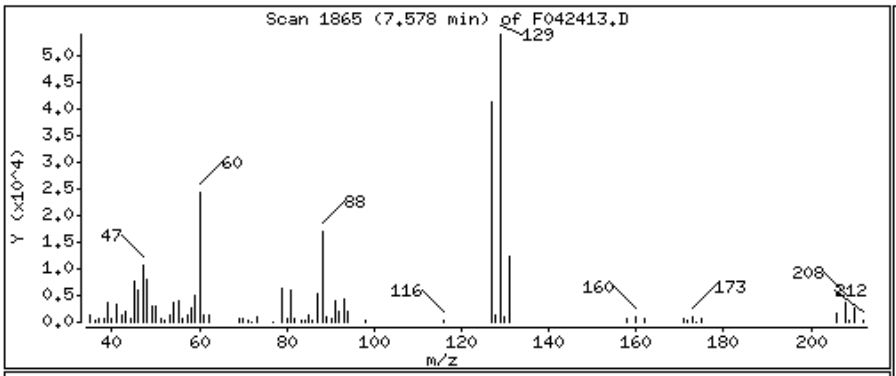
Operator: TS

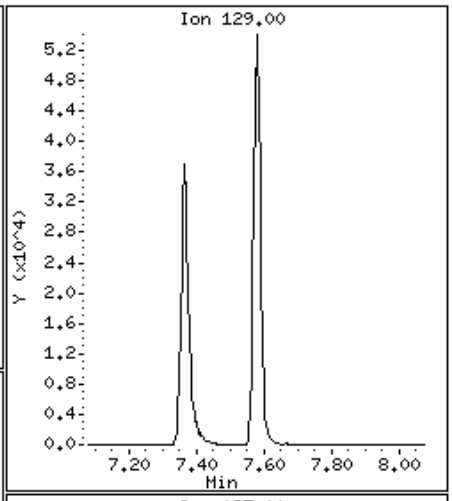
Column phase: DB624

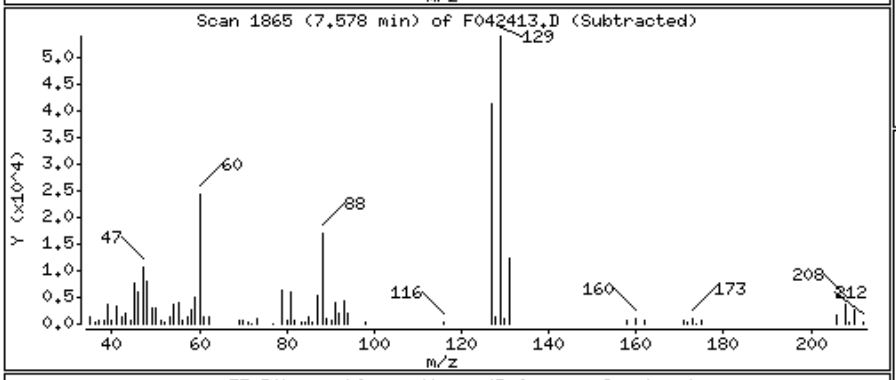
Column diameter: 0.18

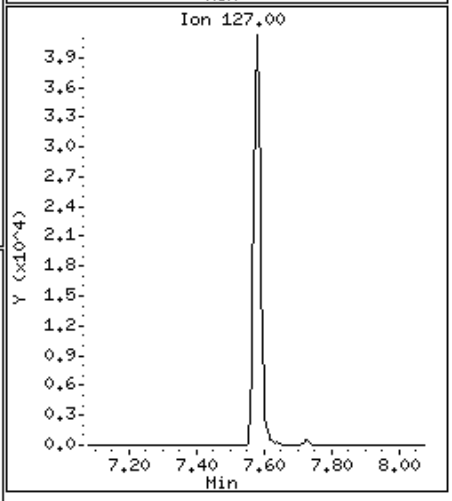
55 Dibromochloromethane

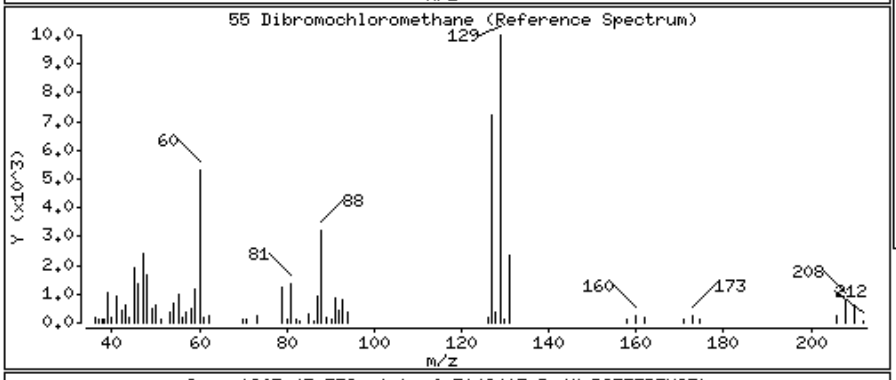
Concentration: 53.46 ug/l

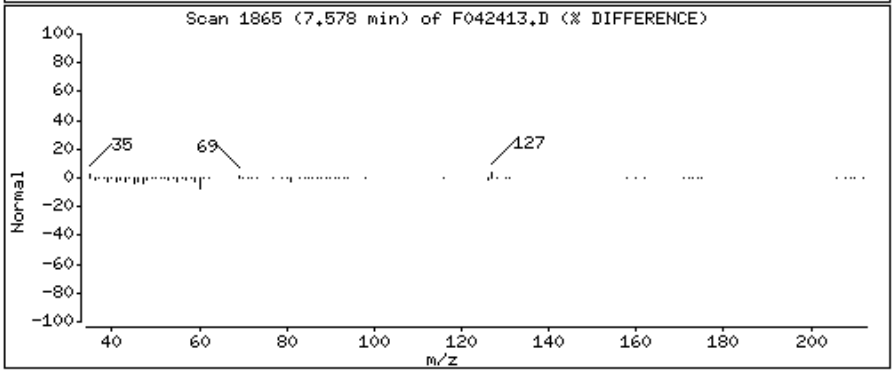












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 51

Date : 24-APR-2024 13:44

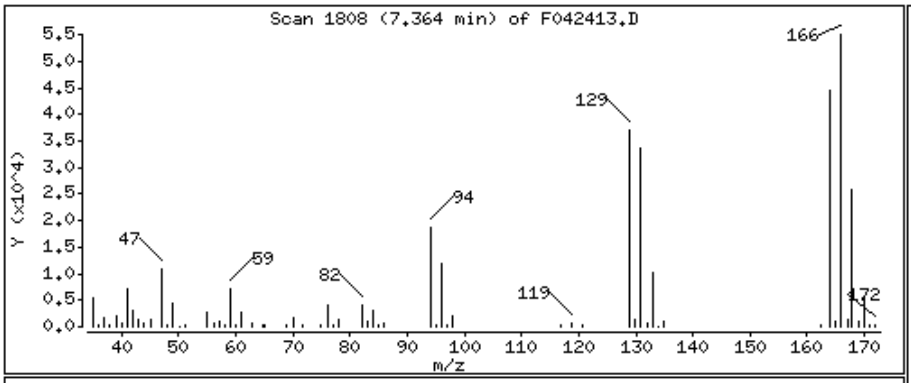
Client ID: VSTD050 Instrument: voa10.i

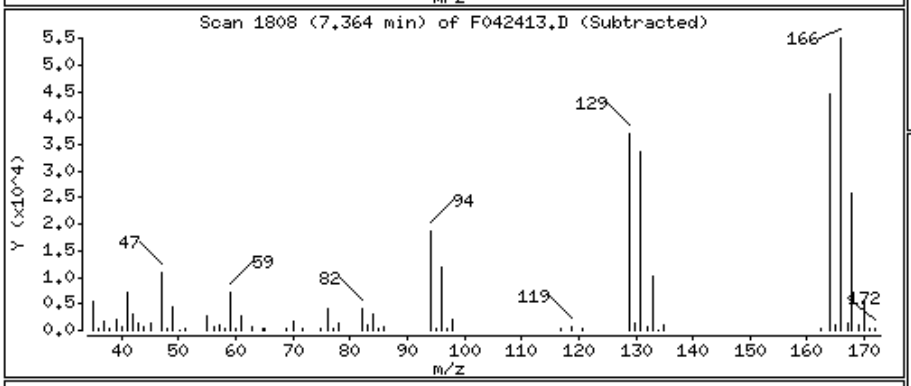
Sample Info: VSTD050;VSTD050;2;;ICV

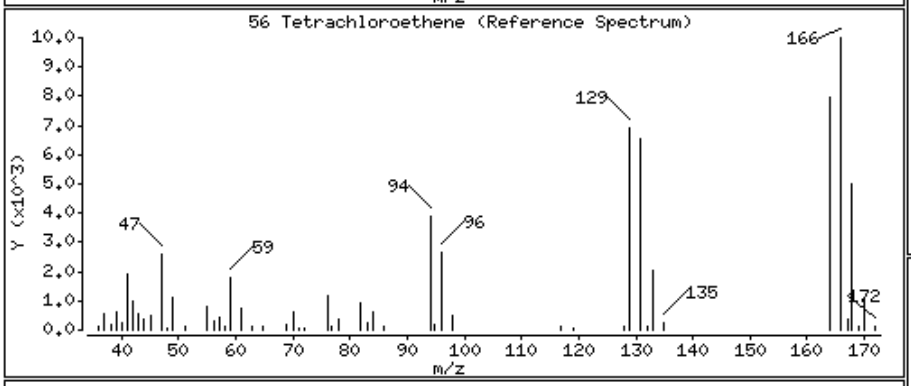
Purge Volume: 5.0 Operator: TS

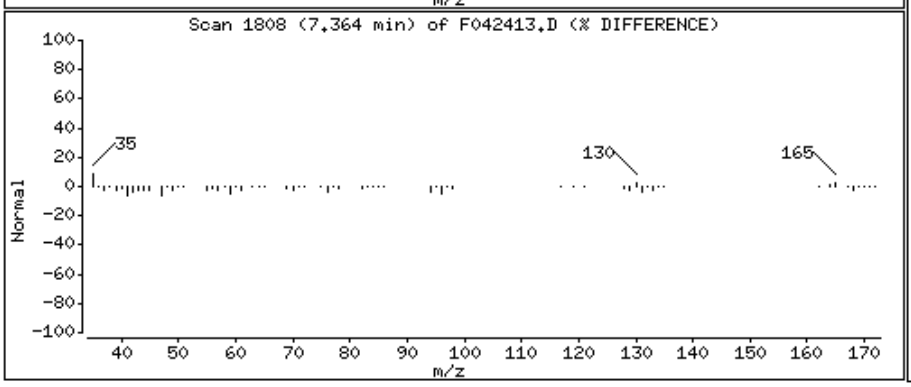
Column phase: DB624 Column diameter: 0.18

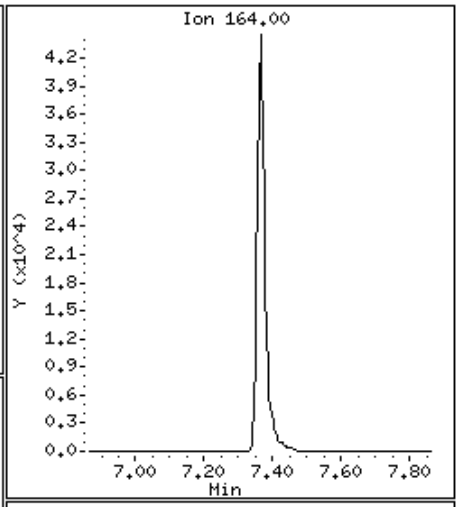
56 Tetrachloroethene Concentration: 52.26 ug/l

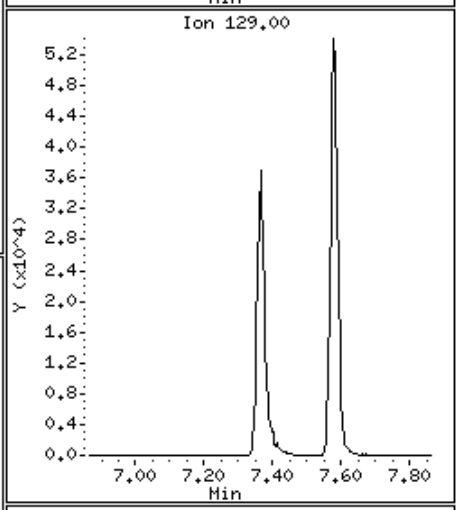


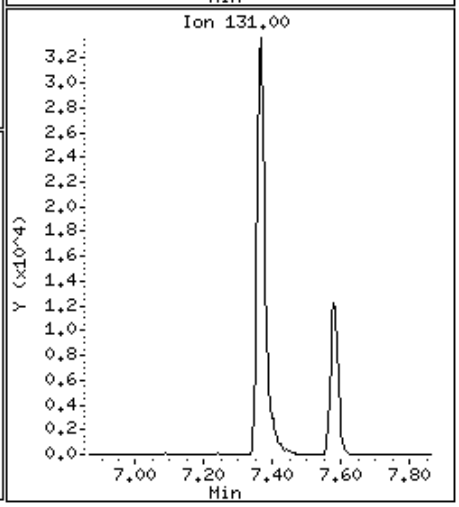












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 52

Date : 24-APR-2024 13:44

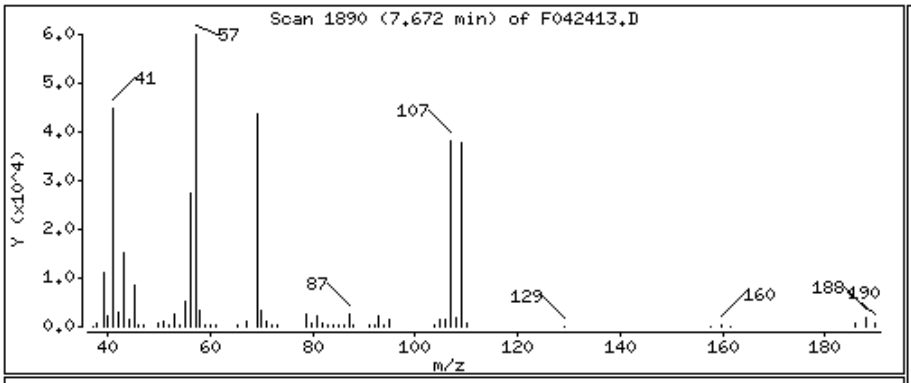
Client ID: VSTD050 Instrument: voa10.i

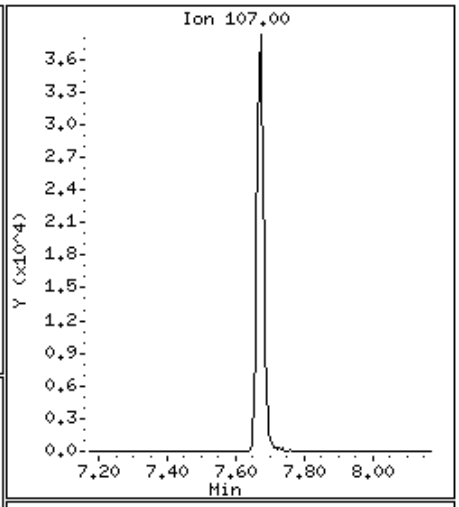
Sample Info: VSTD050;VSTD050;2;;ICV

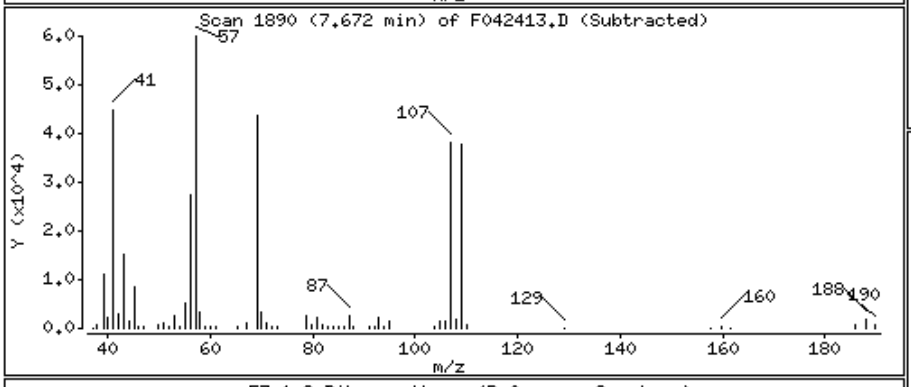
Purge Volume: 5.0 Operator: TS

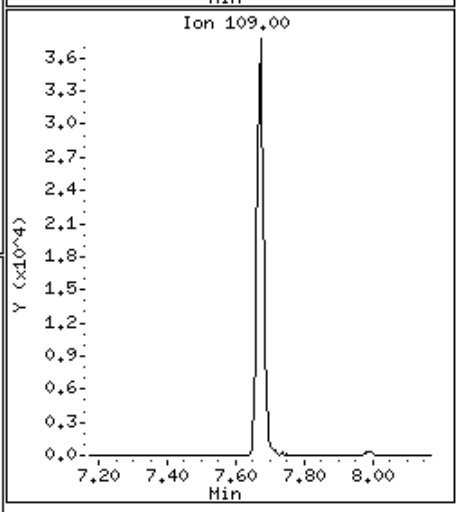
Column phase: DB624 Column diameter: 0.18

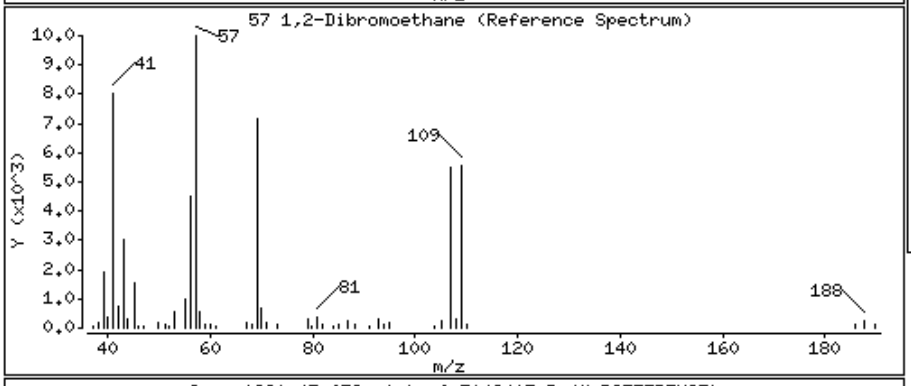
57 1,2-Dibromoethane Concentration: 45.74 ug/l

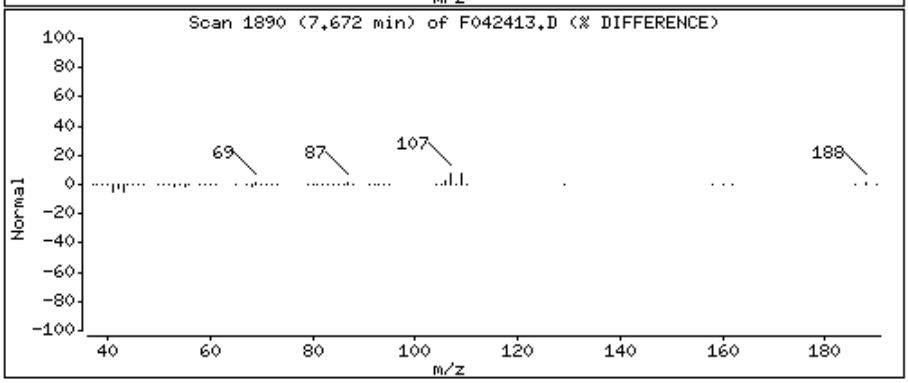












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 53

Date : 24-APR-2024 13:44

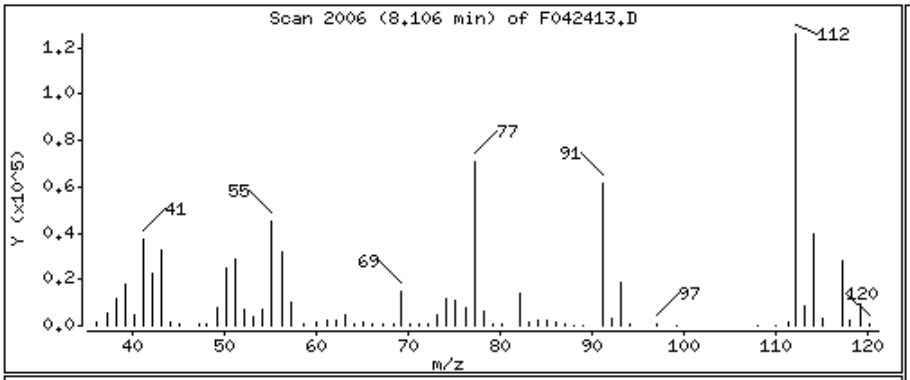
Client ID: VSTD050 Instrument: voa10.i

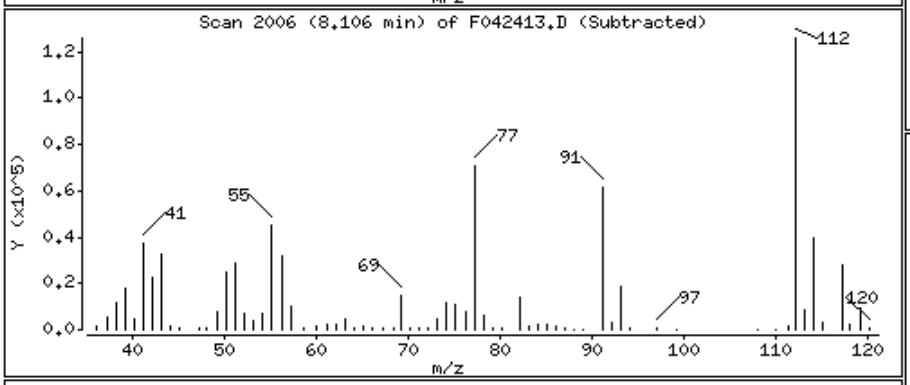
Sample Info: VSTD050;VSTD050;2;;ICV

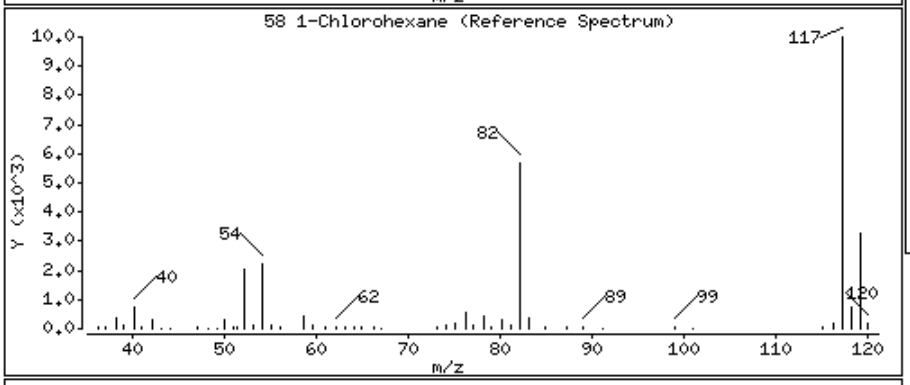
Purge Volume: 5.0 Operator: TS

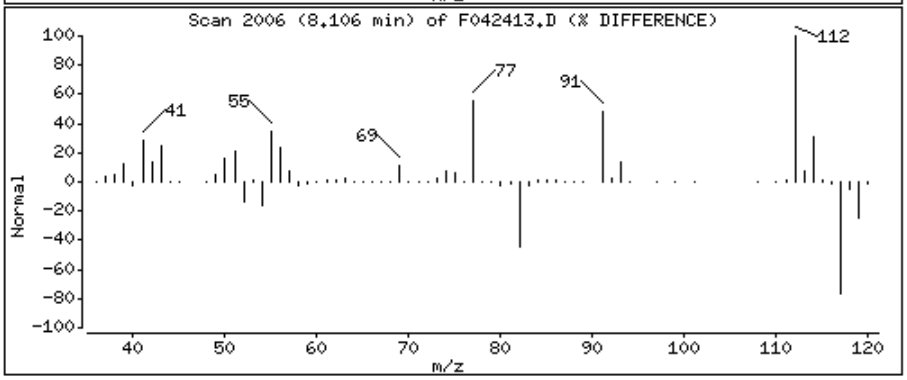
Column phase: DB624 Column diameter: 0.18

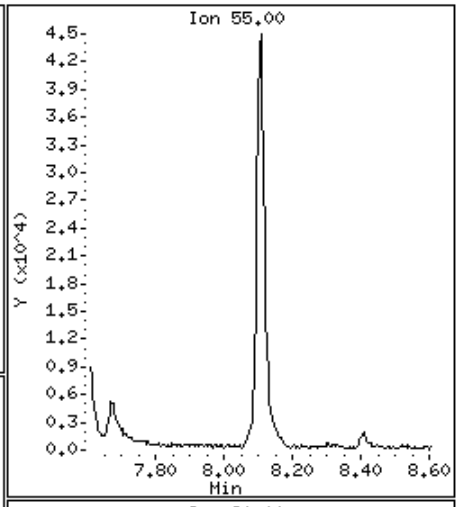
58 1-Chlorohexane Concentration: 51.87 ug/l

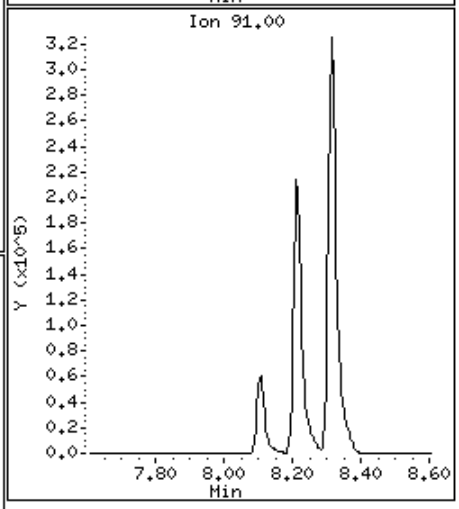












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

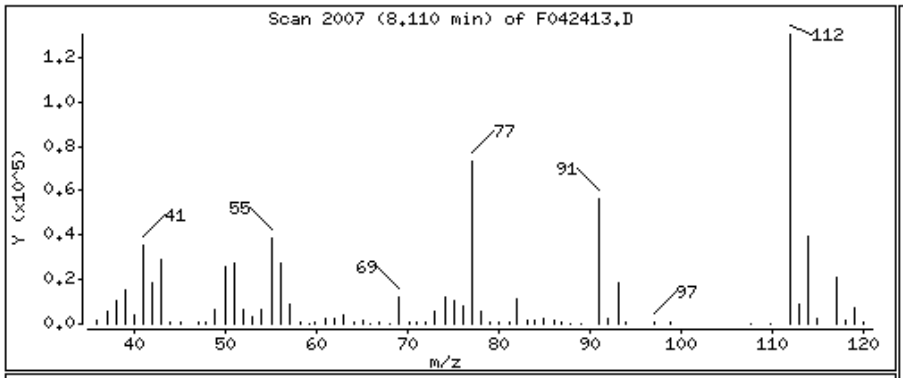
Operator: TS

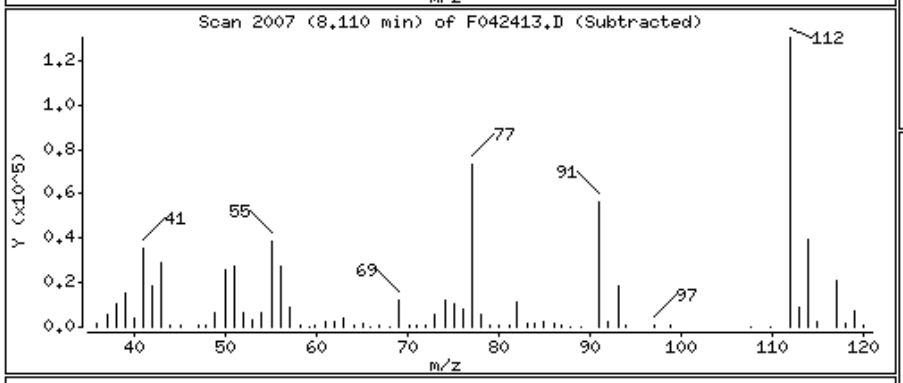
Column phase: DB624

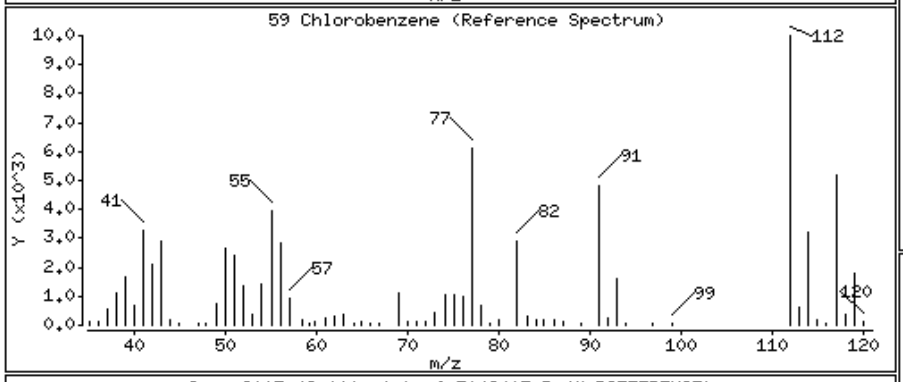
Column diameter: 0.18

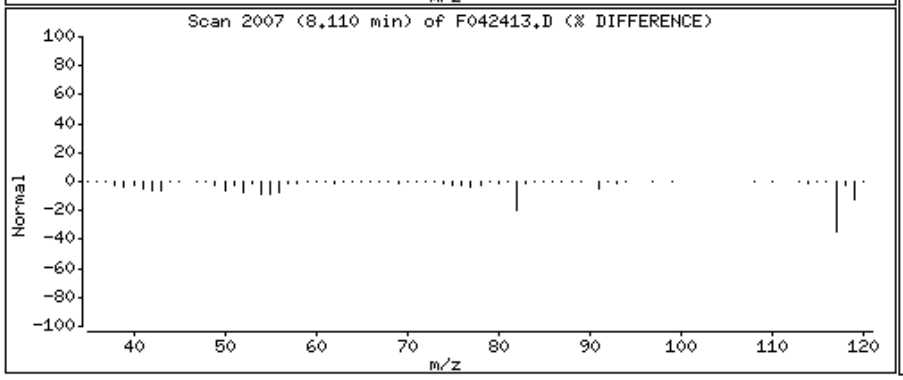
59 Chlorobenzene

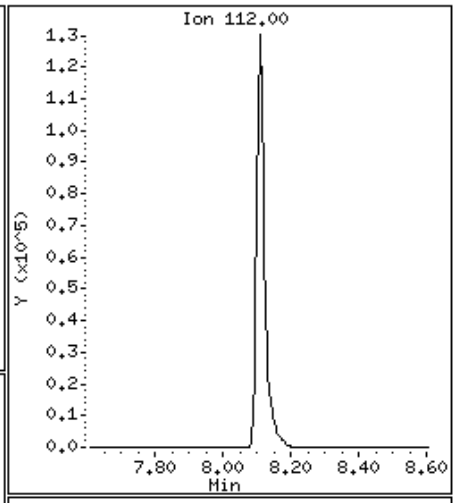
Concentration: 49.80 ug/l

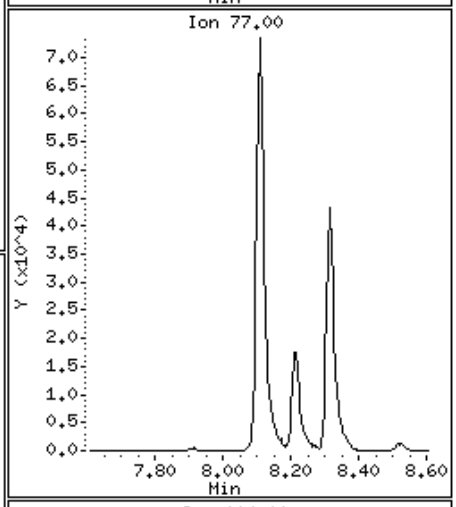


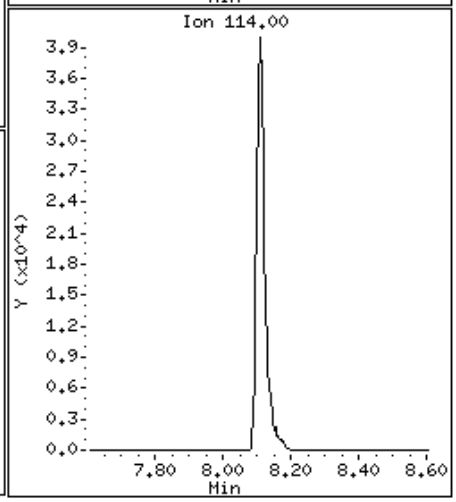












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 55

Date : 24-APR-2024 13:44

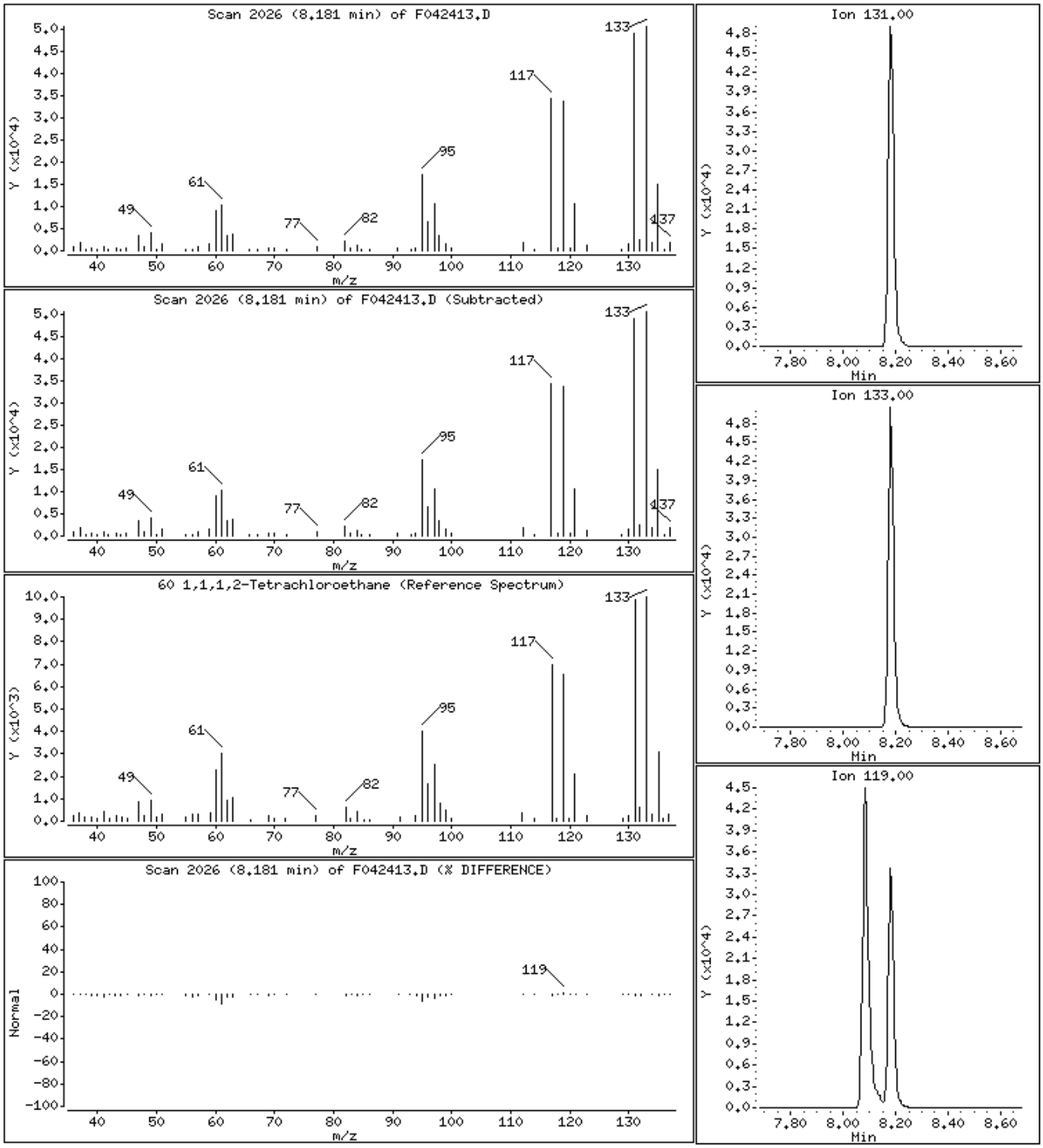
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

60 1,1,1,2-Tetrachloroethane Concentration: 52.77 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 56

Date : 24-APR-2024 13:44

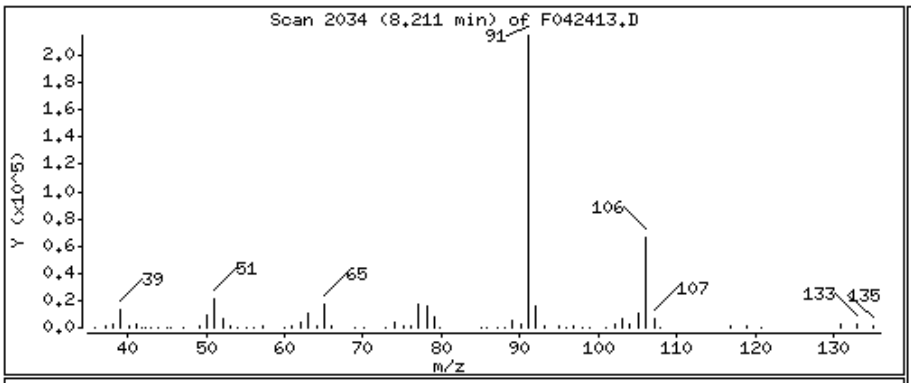
Client ID: VSTD050 Instrument: voa10.i

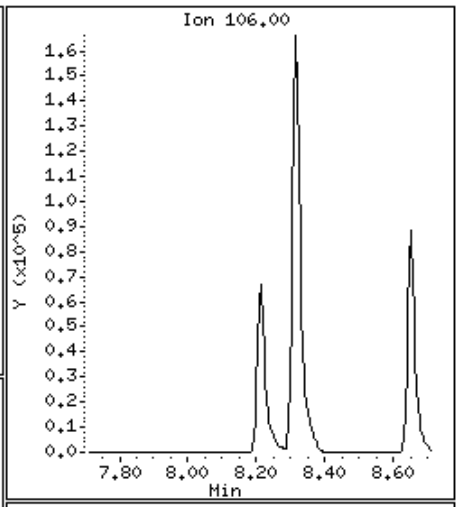
Sample Info: VSTD050;VSTD050;2;;ICV

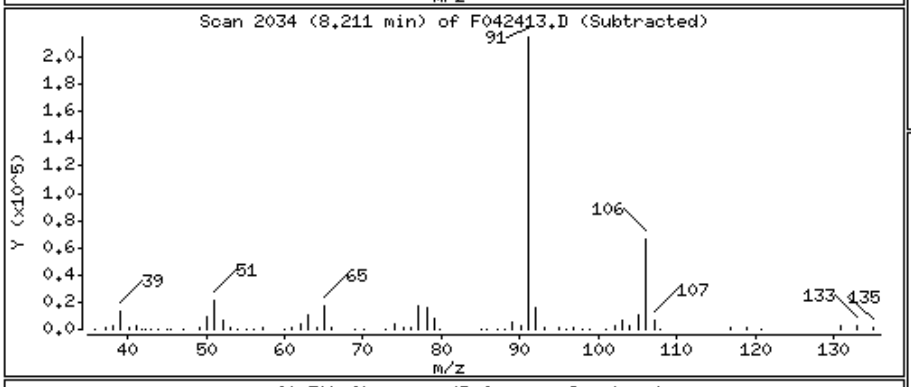
Purge Volume: 5.0 Operator: TS

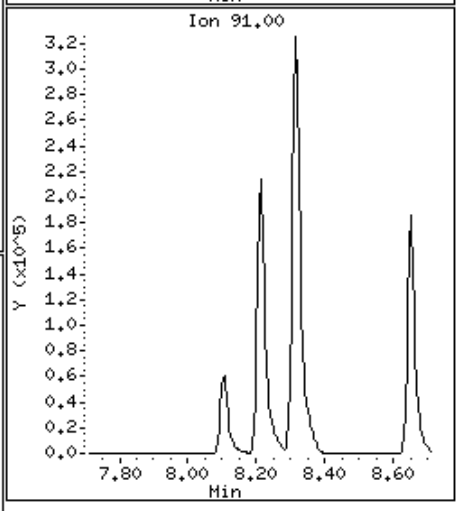
Column phase: DB624 Column diameter: 0.18

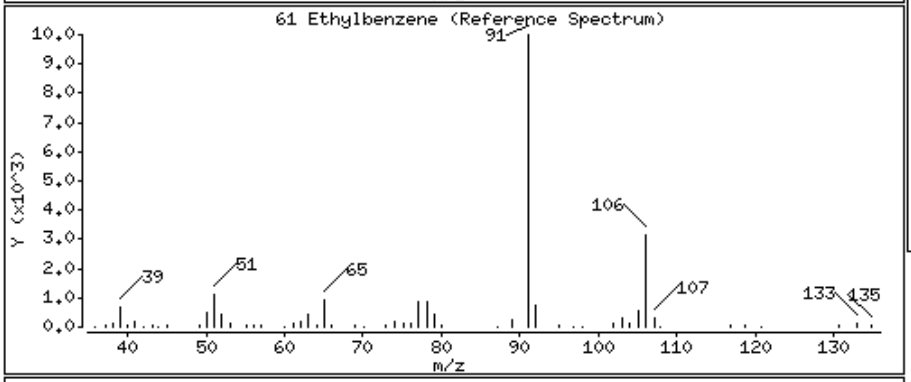
61 Ethylbenzene Concentration: 51.46 ug/l

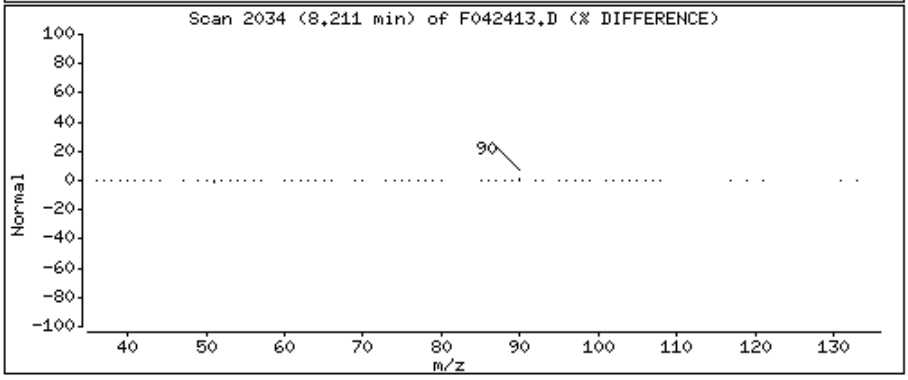












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 57

Date : 24-APR-2024 13:44

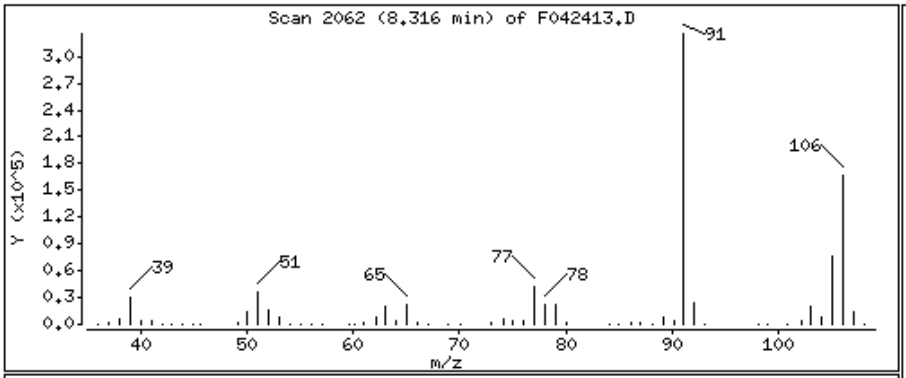
Client ID: VSTD050 Instrument: voa10.i

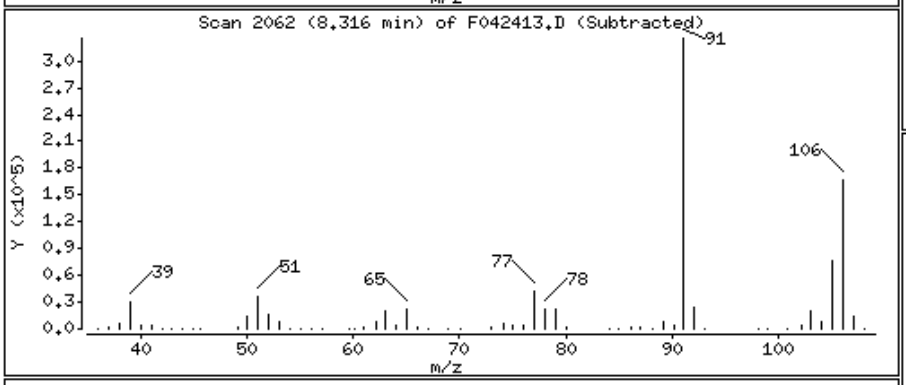
Sample Info: VSTD050;VSTD050;2;;ICV

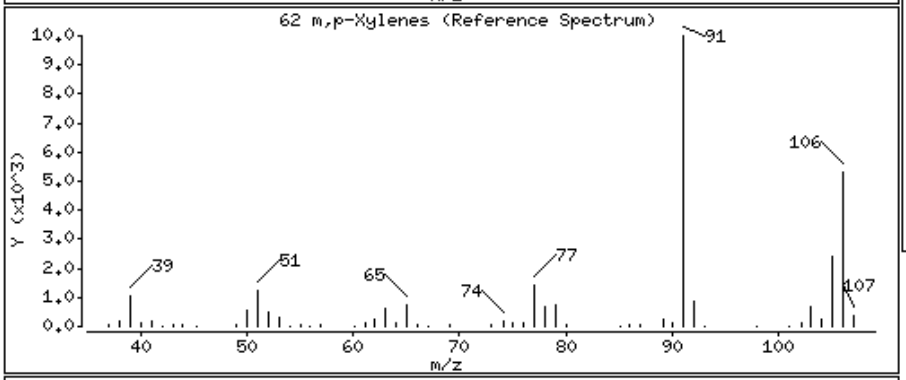
Purge Volume: 5.0 Operator: TS

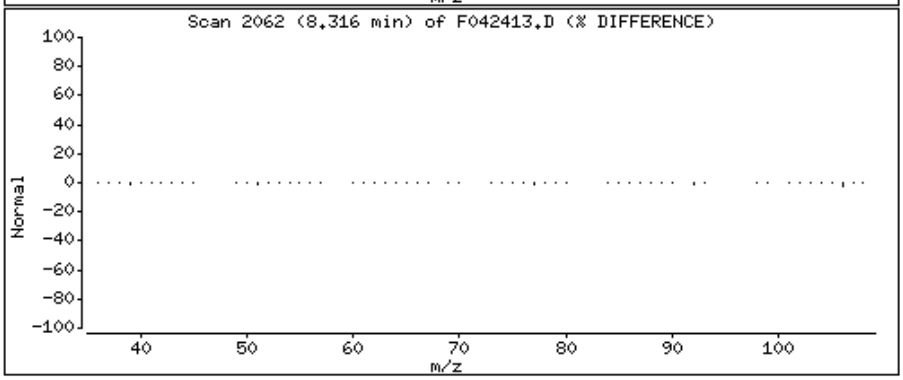
Column phase: DB624 Column diameter: 0.18

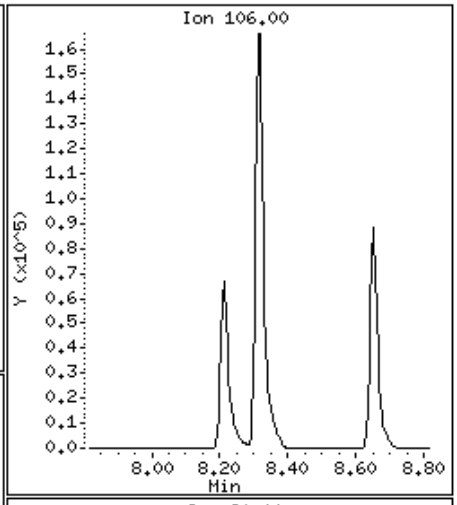
62 m,p-Xylenes Concentration: 102.79 ug/l

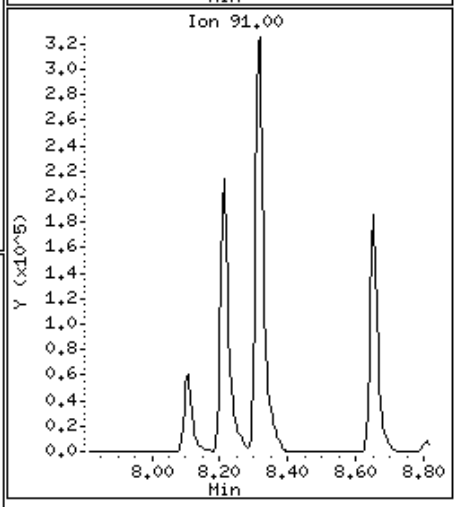












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 58

Date : 24-APR-2024 13:44

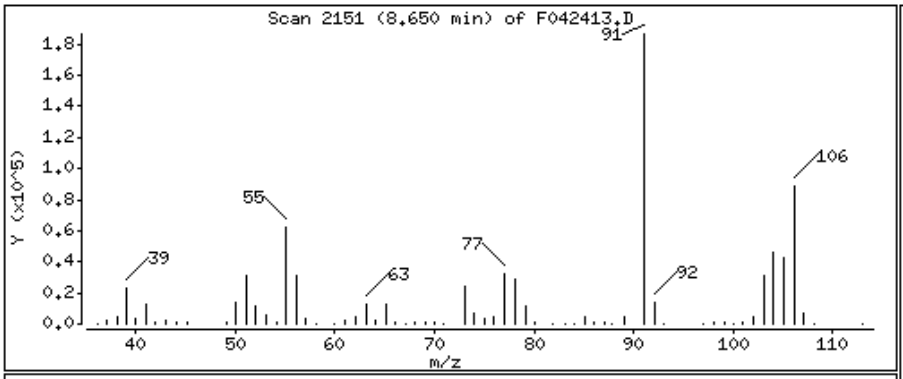
Client ID: VSTD050 Instrument: voa10.i

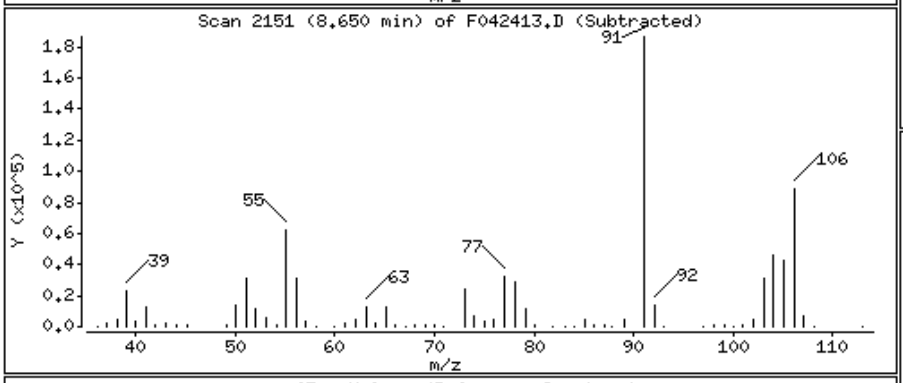
Sample Info: VSTD050;VSTD050;2;;ICV

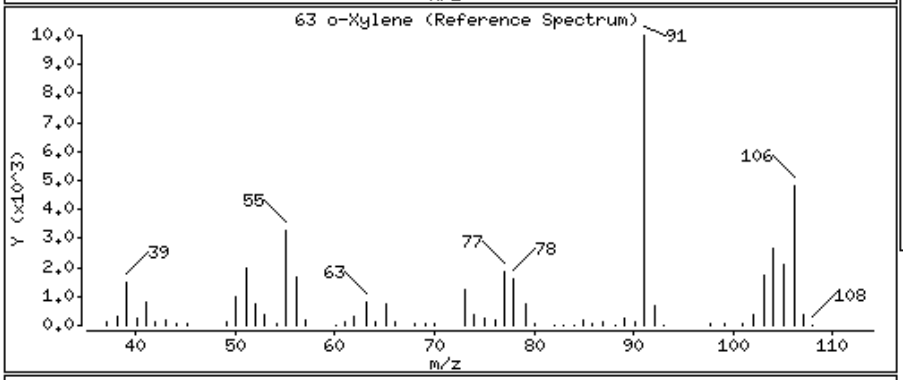
Purge Volume: 5.0 Operator: TS

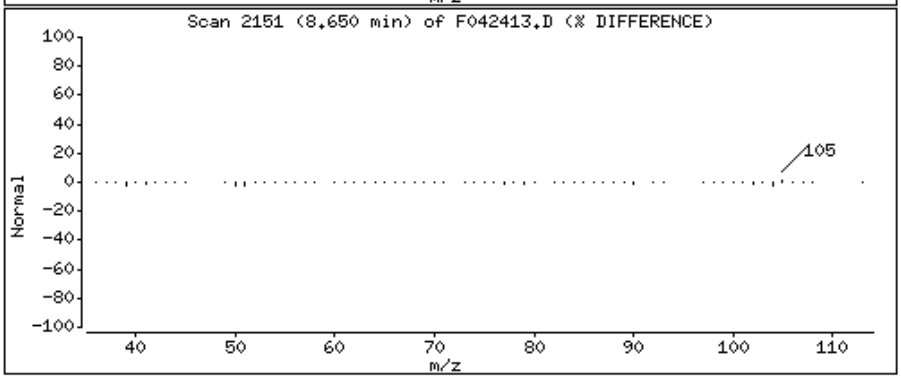
Column phase: DB624 Column diameter: 0.18

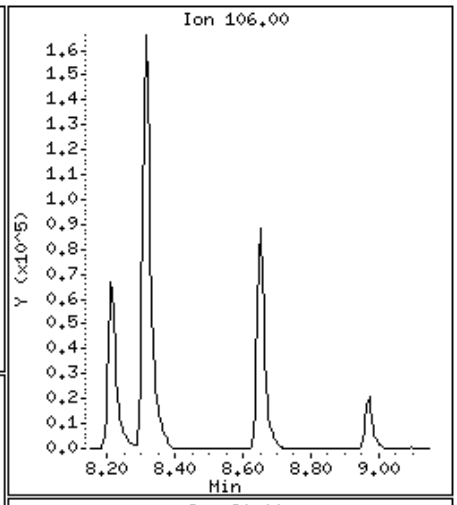
63 o-Xylene Concentration: 50.94 ug/l

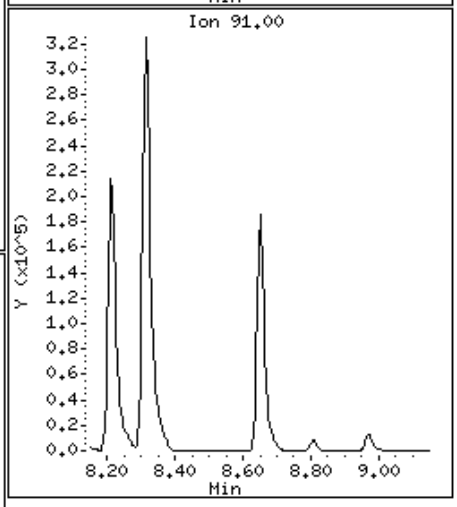












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 59

Date : 24-APR-2024 13:44

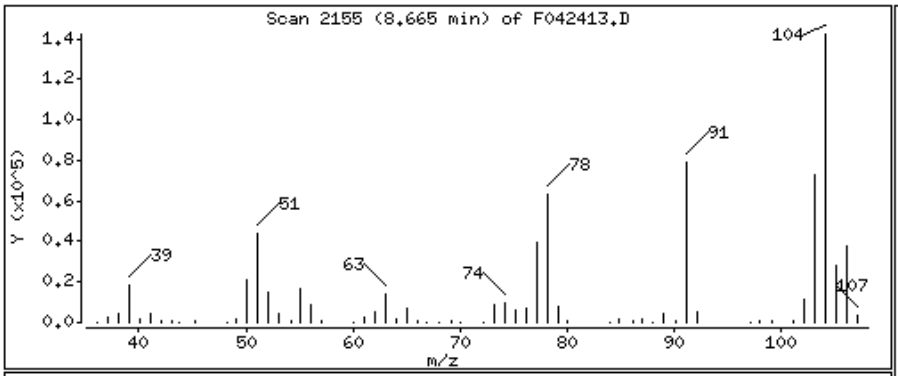
Client ID: VSTD050 Instrument: voa10.i

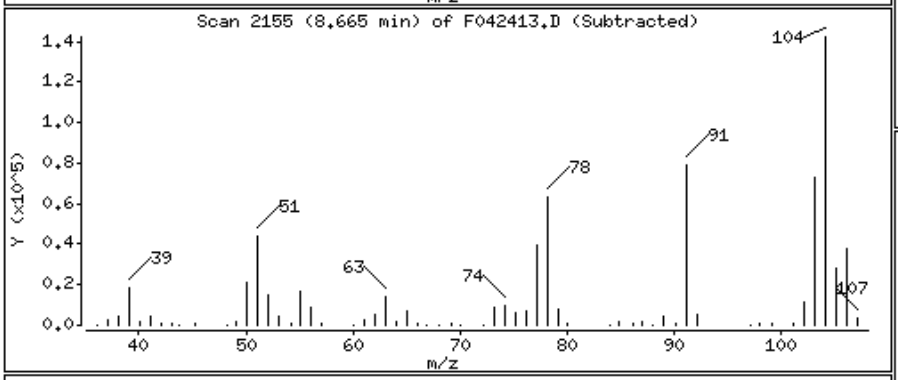
Sample Info: VSTD050;VSTD050;2;;ICV

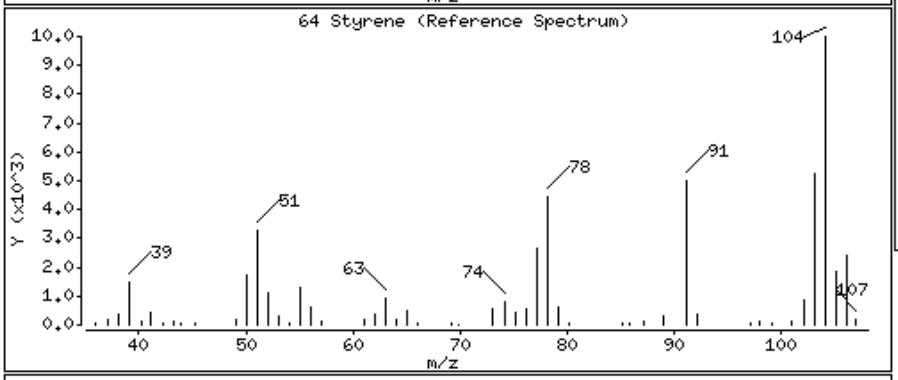
Purge Volume: 5.0 Operator: TS

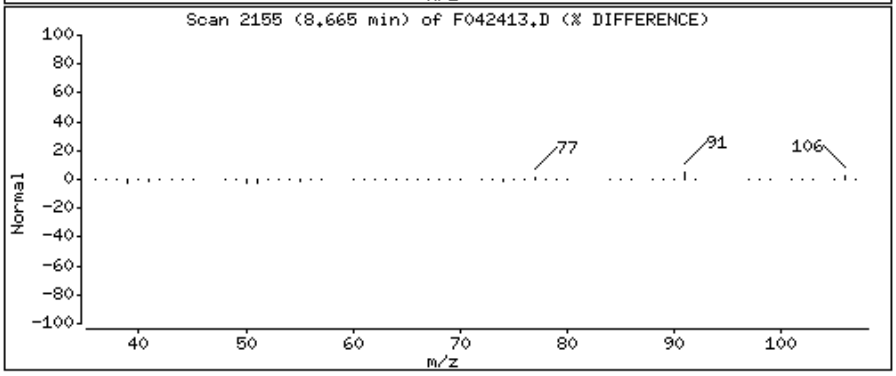
Column phase: DB624 Column diameter: 0.18

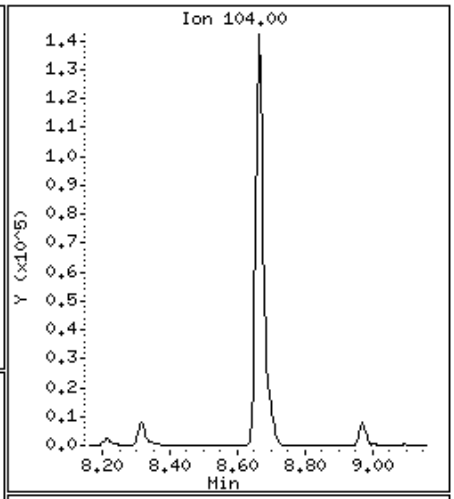
64 Styrene Concentration: 53.40 ug/l

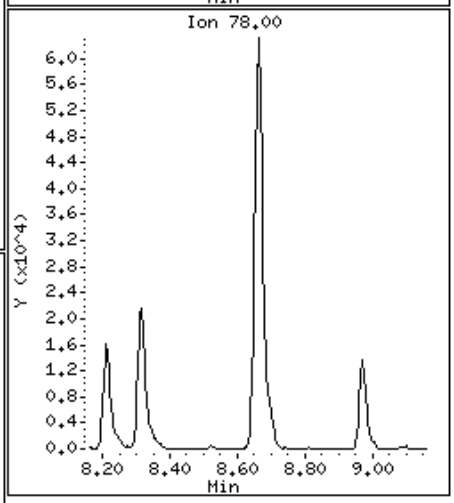












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 60

Date : 24-APR-2024 13:44

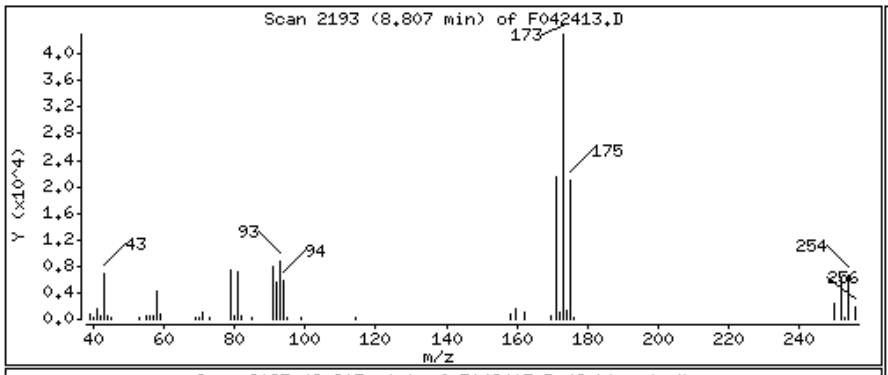
Client ID: VSTD050 Instrument: voa10.i

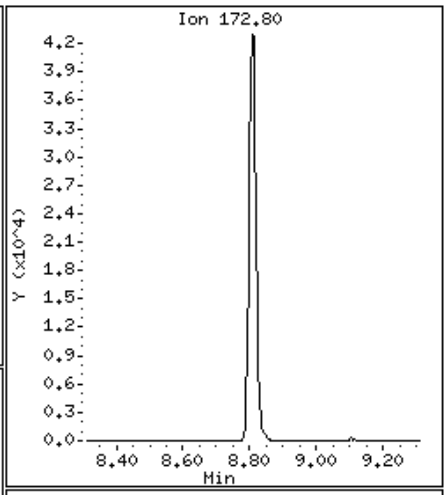
Sample Info: VSTD050;VSTD050;2;;ICV

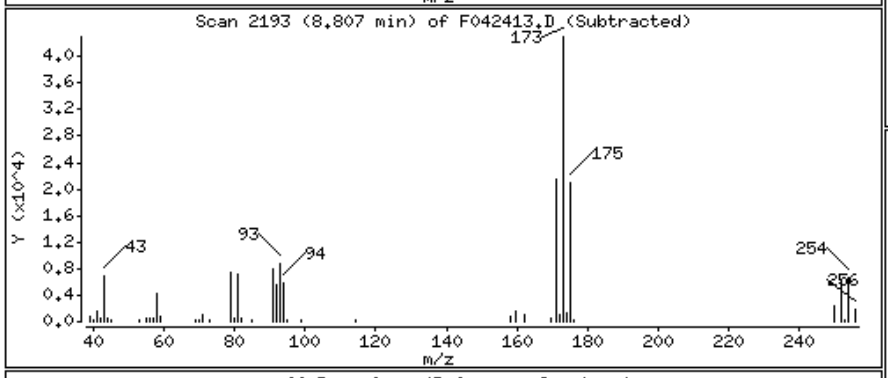
Purge Volume: 5.0 Operator: TS

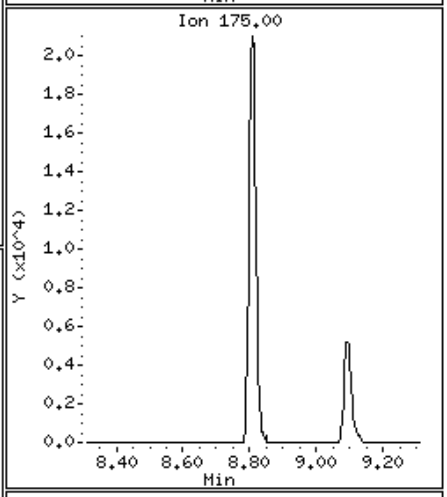
Column phase: DB624 Column diameter: 0.18

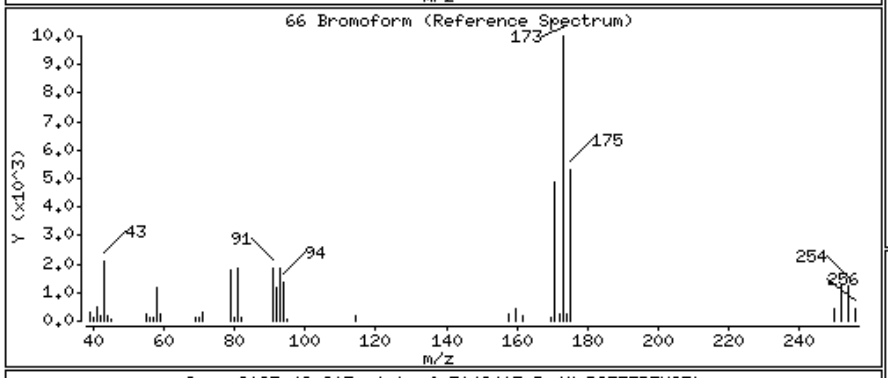
66 Bromoform Concentration: 48.12 ug/l

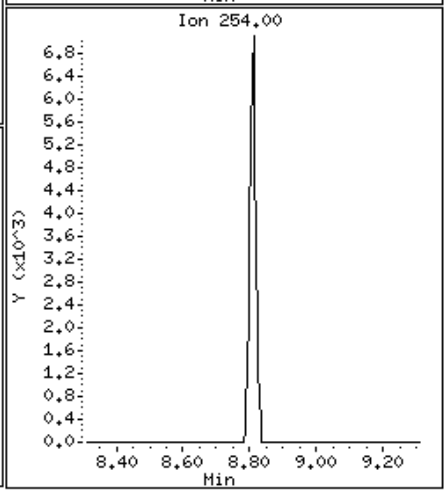


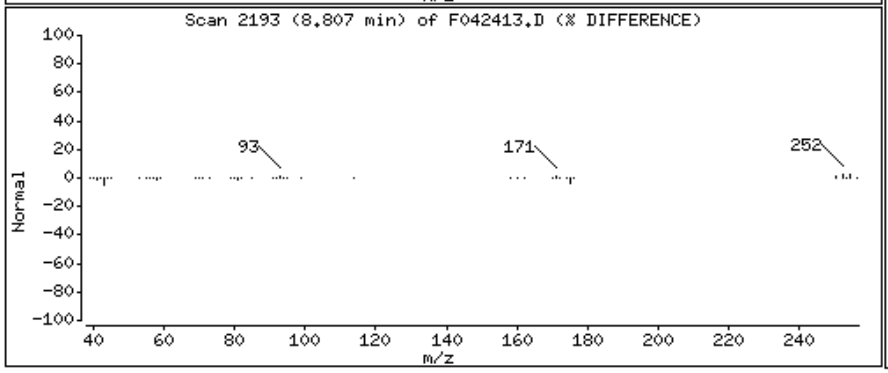












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

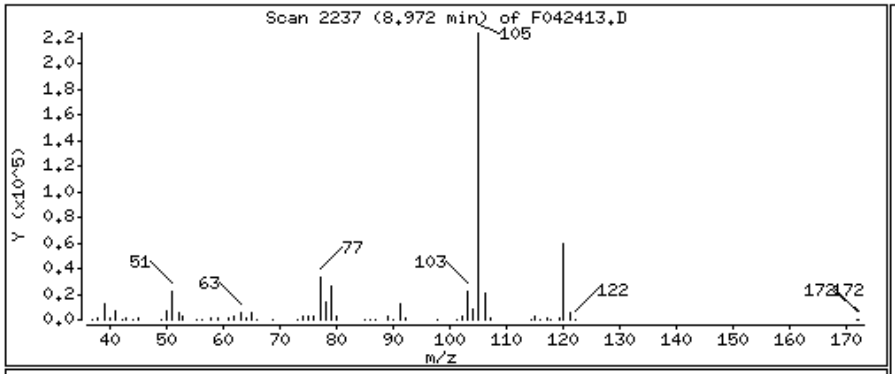
Operator: TS

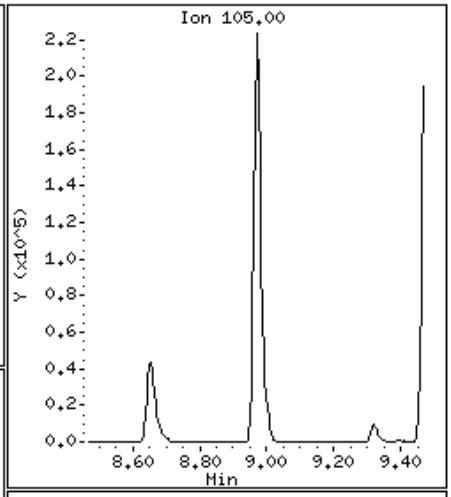
Column phase: DB624

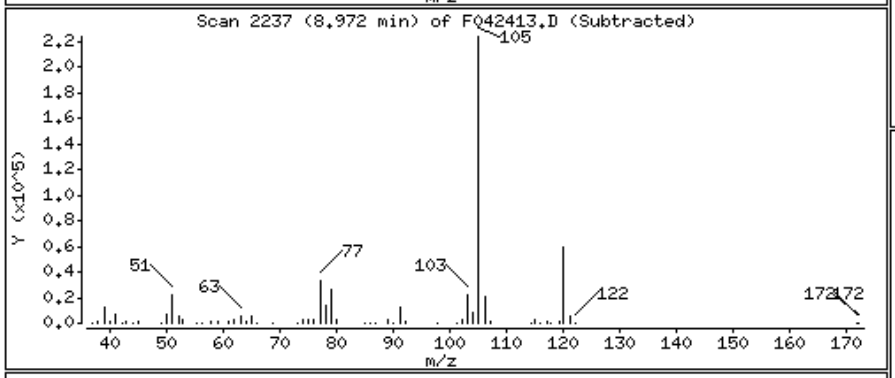
Column diameter: 0.18

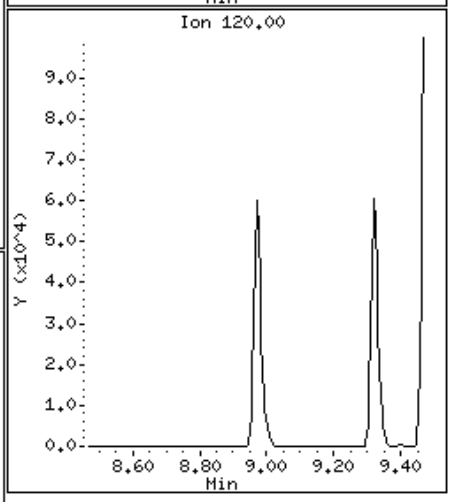
67 Isopropylbenzene

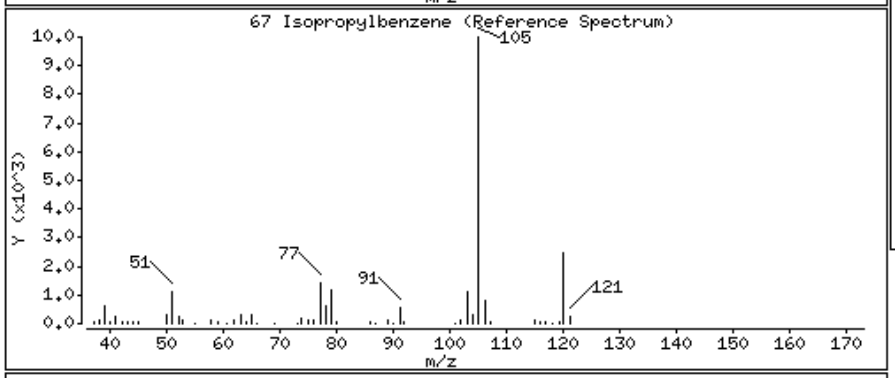
Concentration: 53.11 ug/l

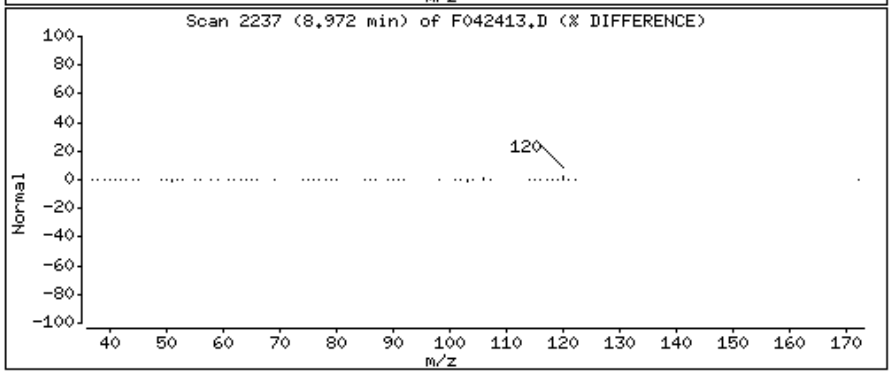












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 62

Date : 24-APR-2024 13:44

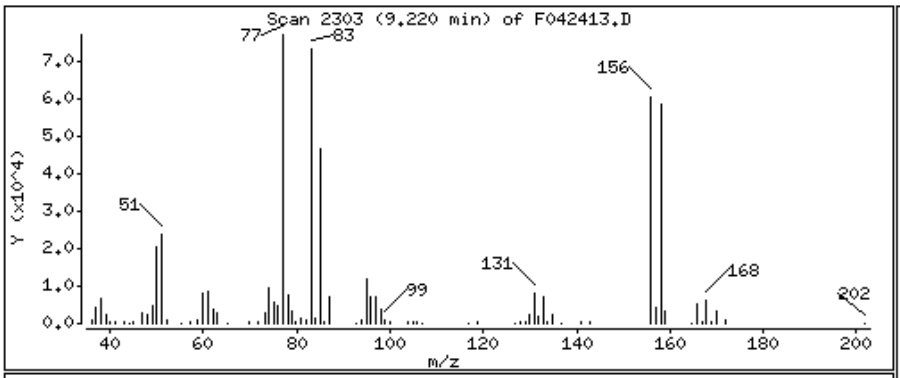
Client ID: VSTD050 Instrument: voa10.i

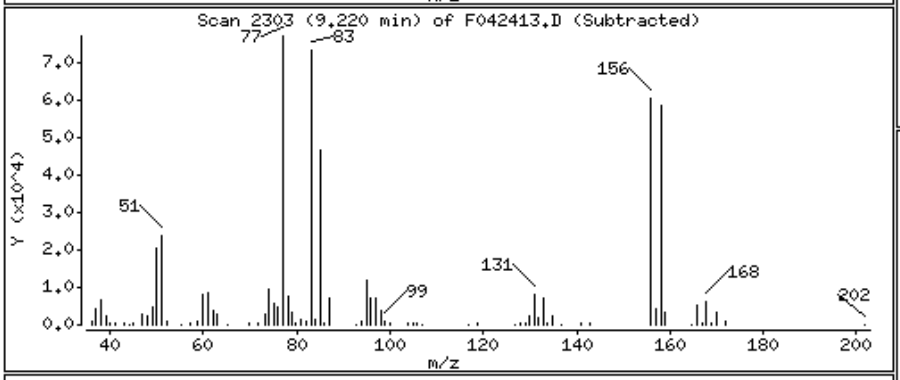
Sample Info: VSTD050;VSTD050;2;;ICV

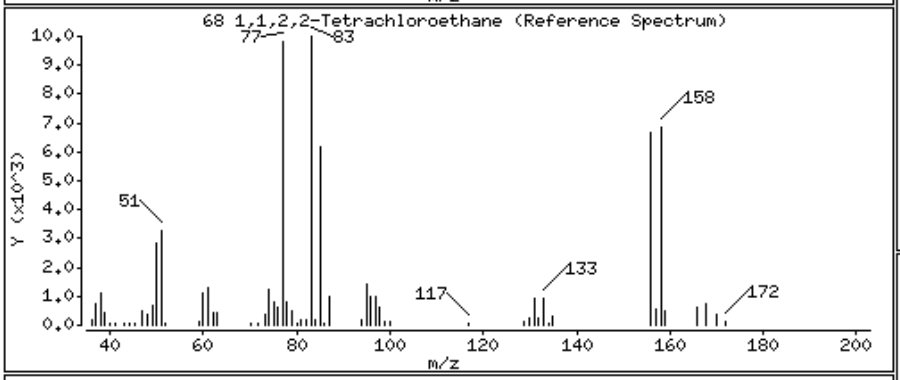
Purge Volume: 5.0 Operator: TS

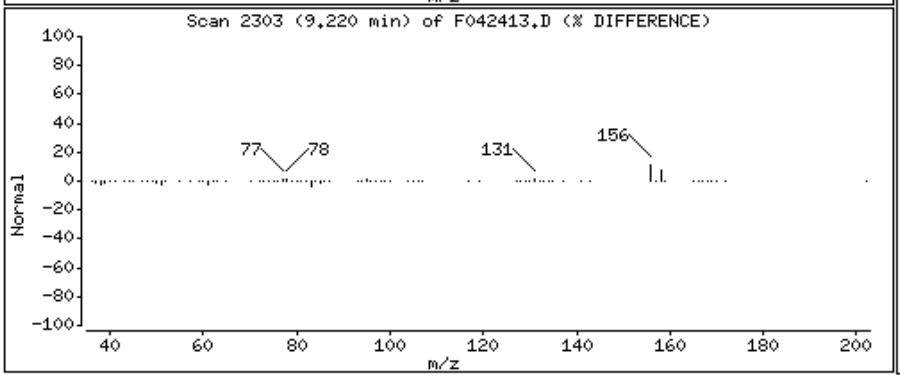
Column phase: DB624 Column diameter: 0.18

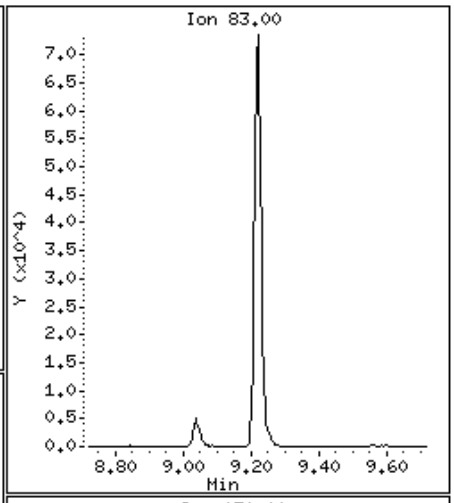
68 1,1,2,2-Tetrachloroethane Concentration: 55.69 ug/l

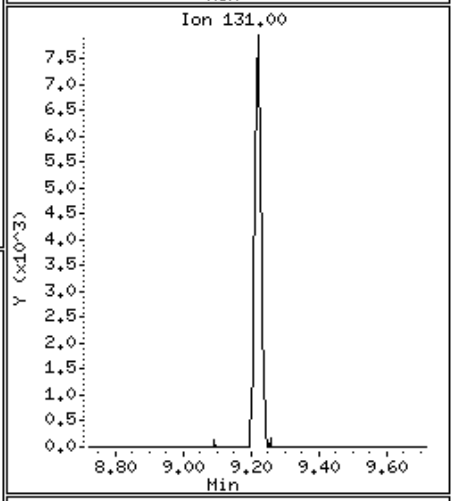


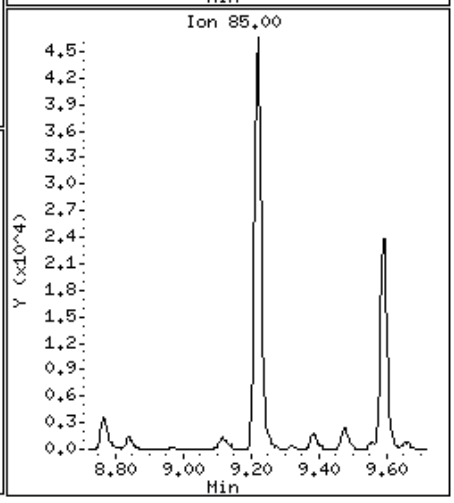












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

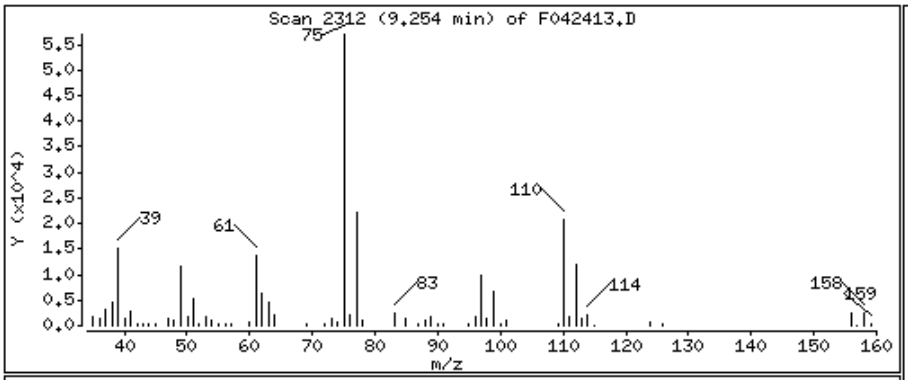
Operator: TS

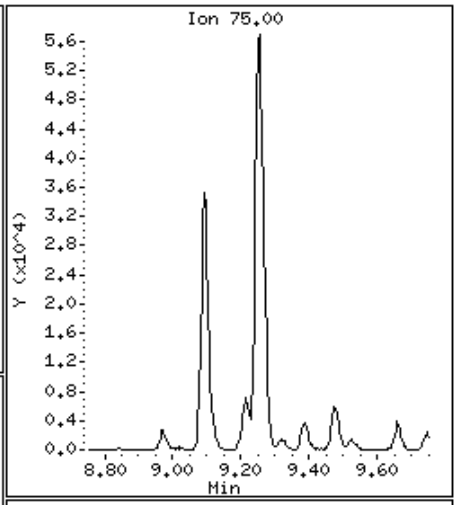
Column phase: DB624

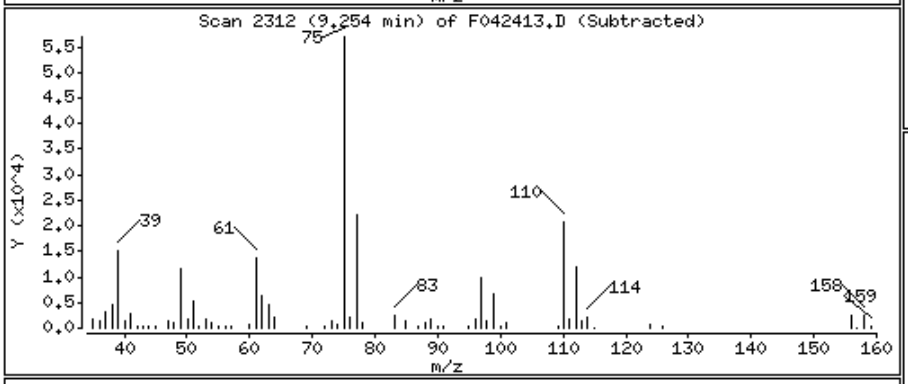
Column diameter: 0.18

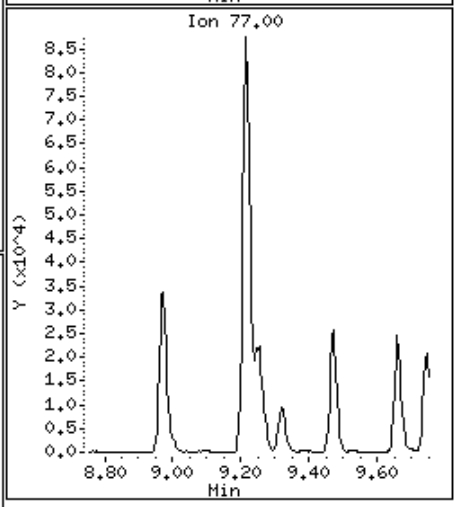
71 1,2,3-Trichloropropane

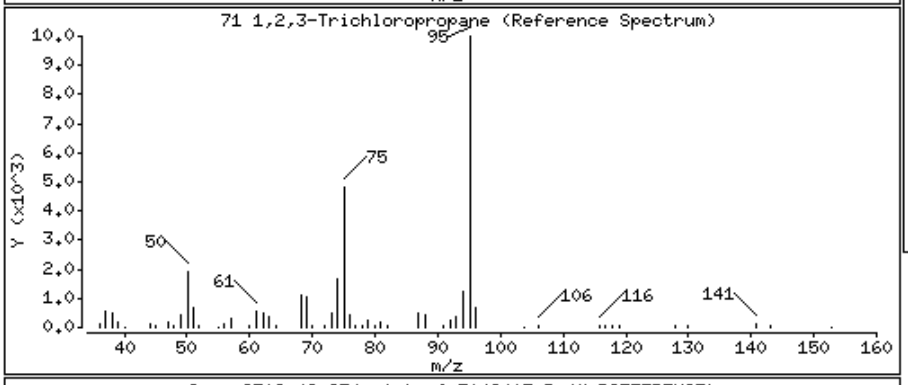
Concentration: 54.22 ug/l

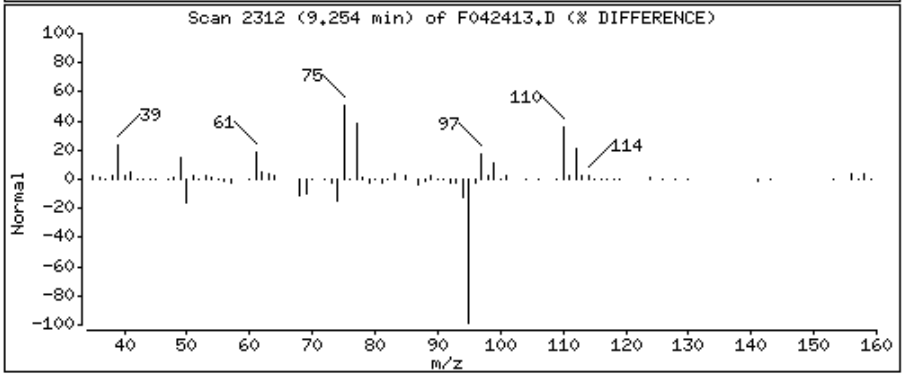












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 64

Date : 24-APR-2024 13:44

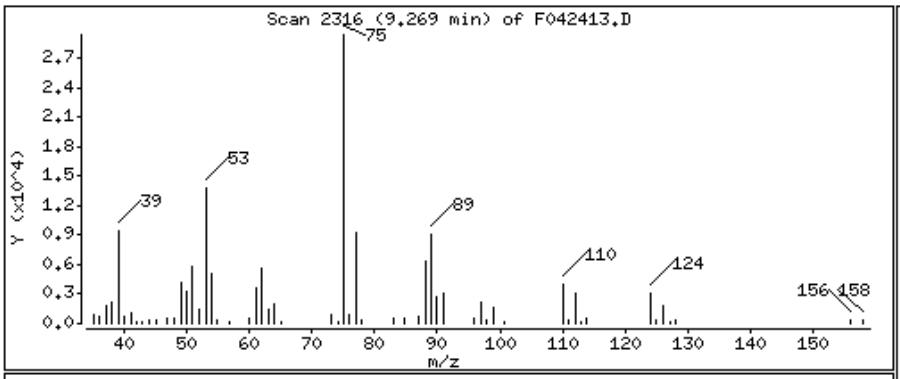
Client ID: VSTD050 Instrument: voa10.i

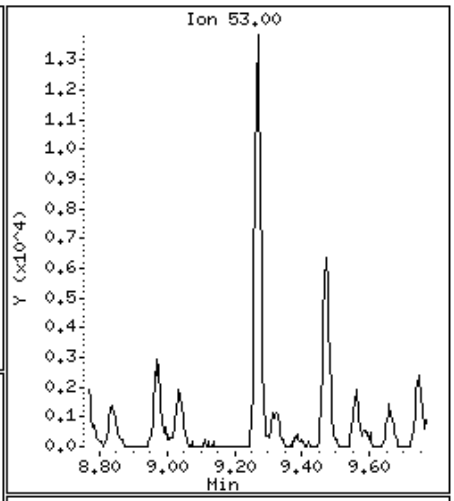
Sample Info: VSTD050;VSTD050;2;;ICV

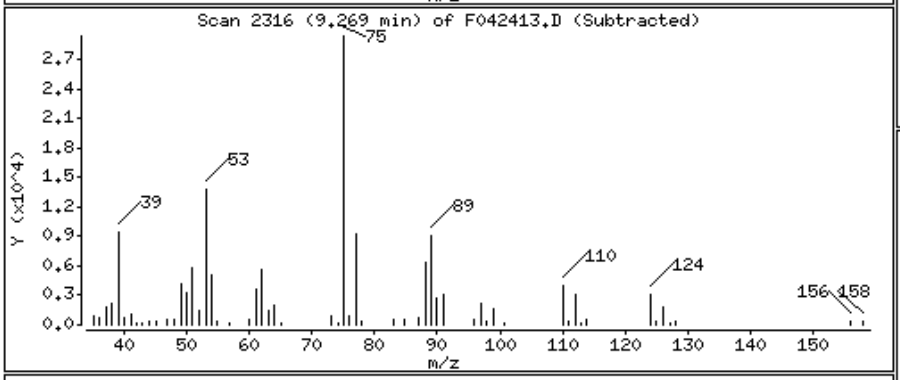
Purge Volume: 5.0 Operator: TS

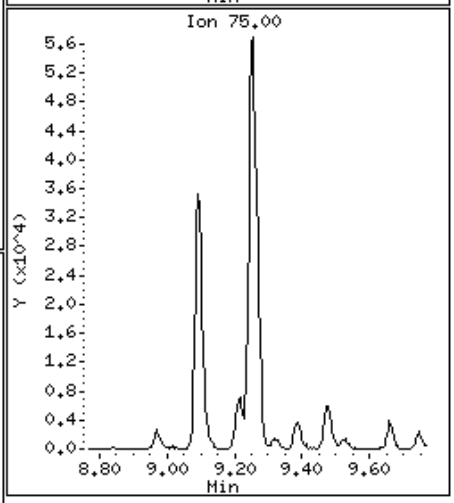
Column phase: DB624 Column diameter: 0.18

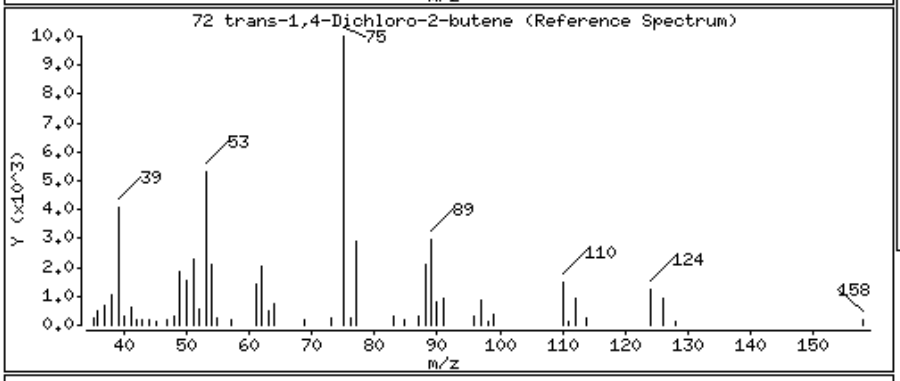
72 trans-1,4-Dichloro-2-butene Concentration: 47.99 ug/l

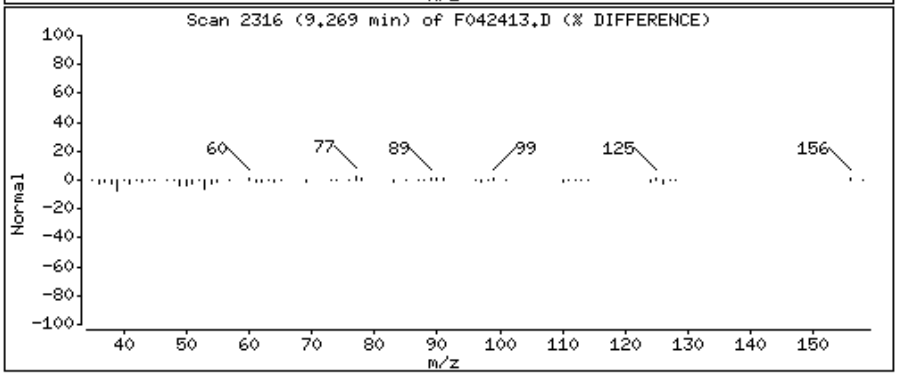












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 65

Date : 24-APR-2024 13:44

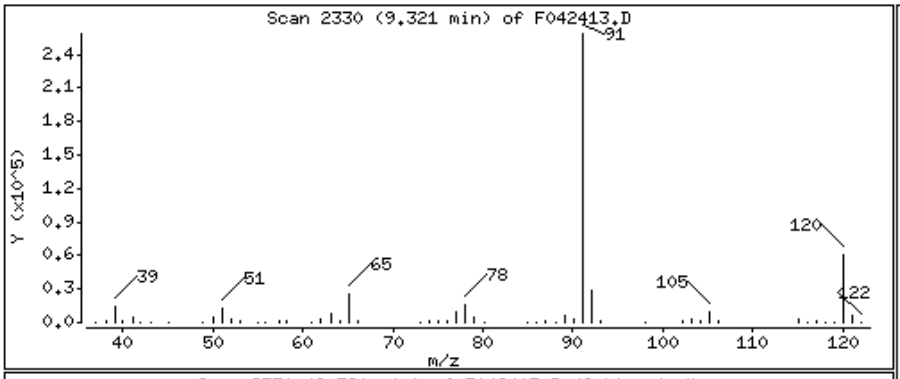
Client ID: VSTD050 Instrument: voa10.i

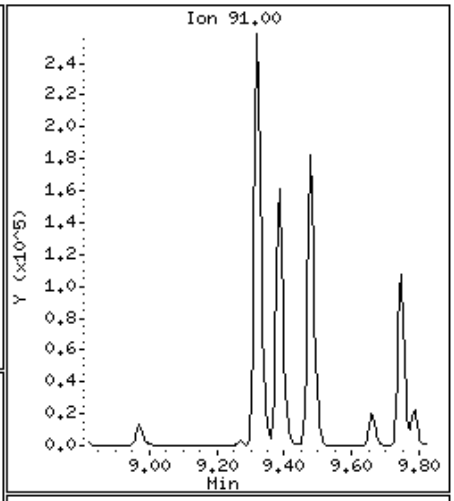
Sample Info: VSTD050;VSTD050;2;;ICV

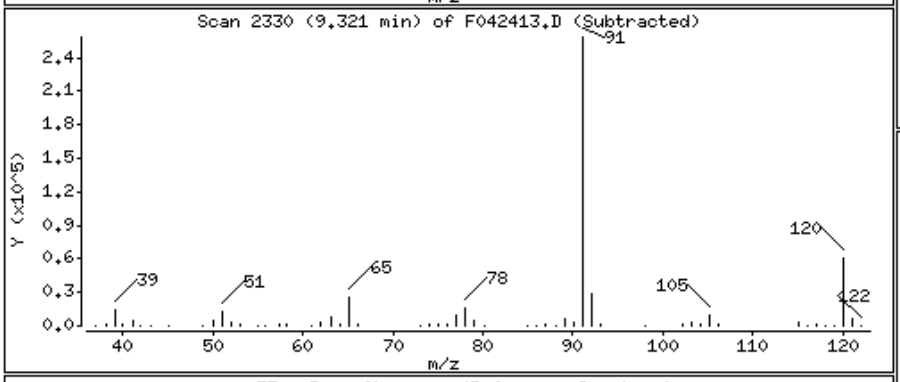
Purge Volume: 5.0 Operator: TS

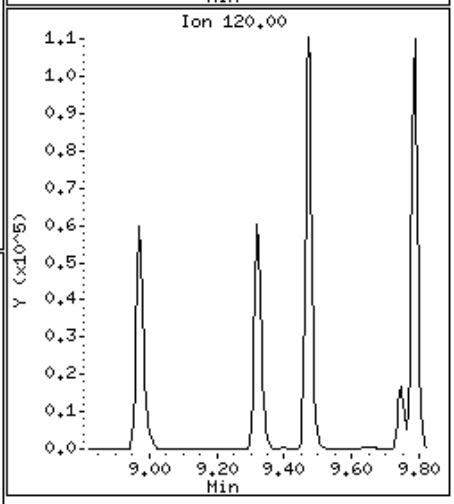
Column phase: DB624 Column diameter: 0.18

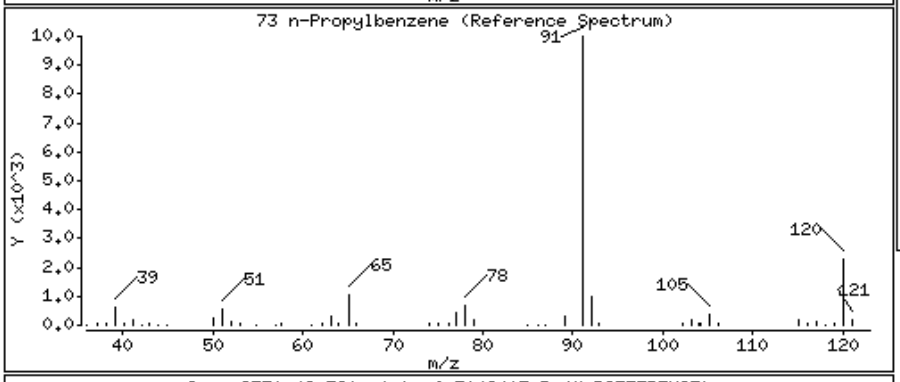
73 n-Propylbenzene Concentration: 55.73 ug/l

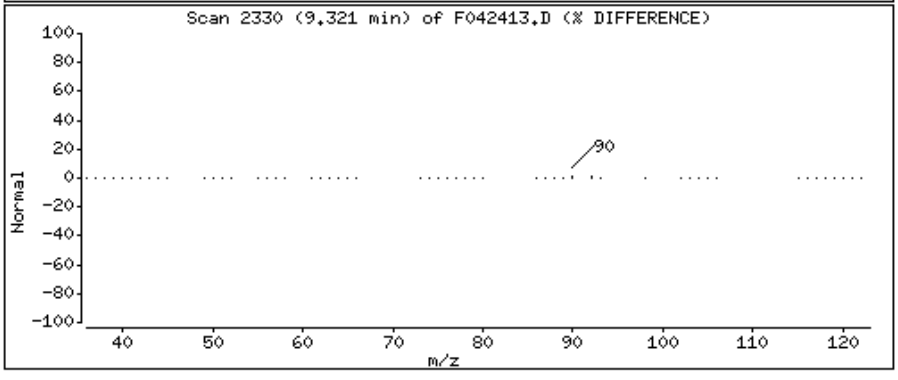












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 66

Date : 24-APR-2024 13:44

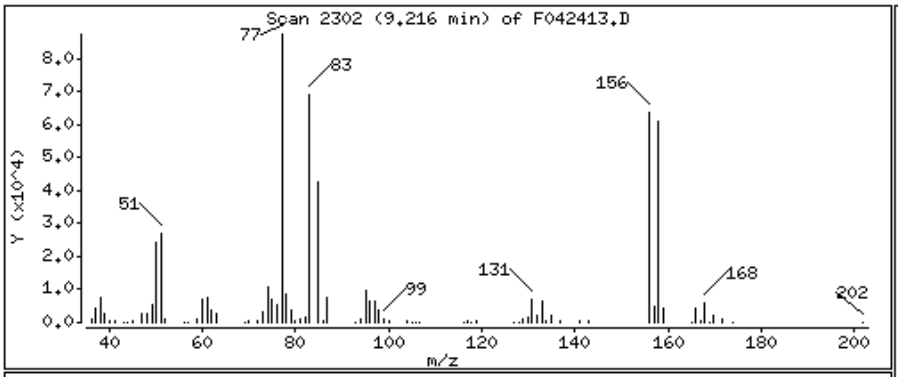
Client ID: VSTD050 Instrument: voa10.i

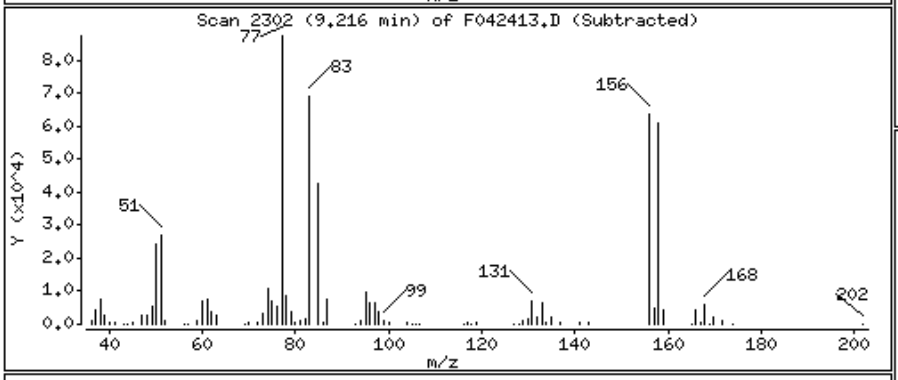
Sample Info: VSTD050;VSTD050;2;;ICV

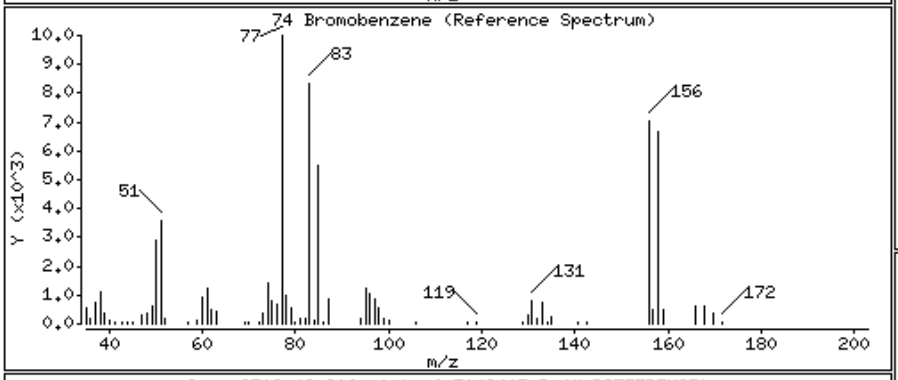
Purge Volume: 5.0 Operator: TS

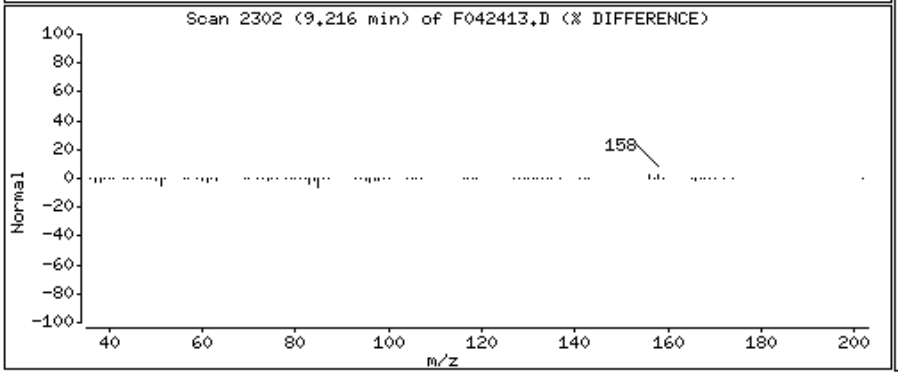
Column phase: DB624 Column diameter: 0.18

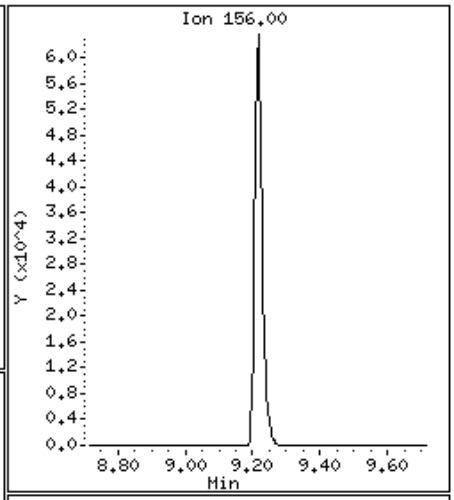
74 Bromobenzene Concentration: 51.51 ug/l

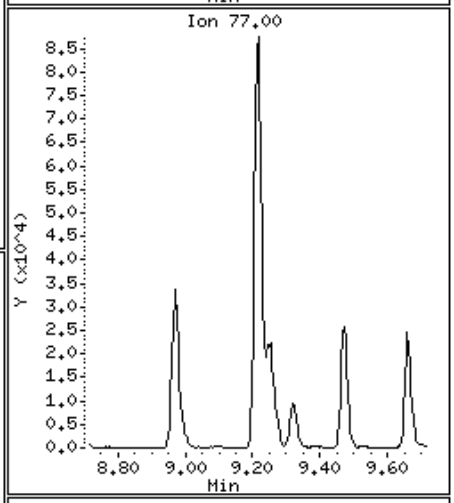


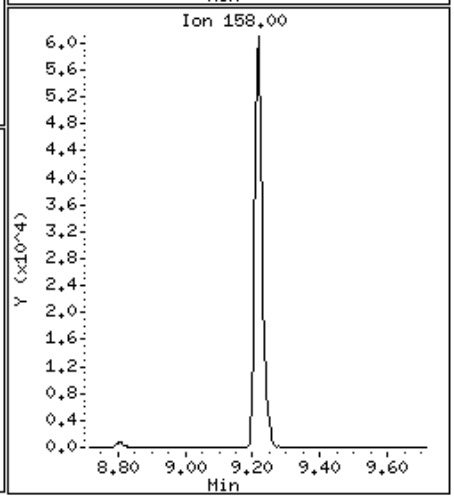












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 67

Date : 24-APR-2024 13:44

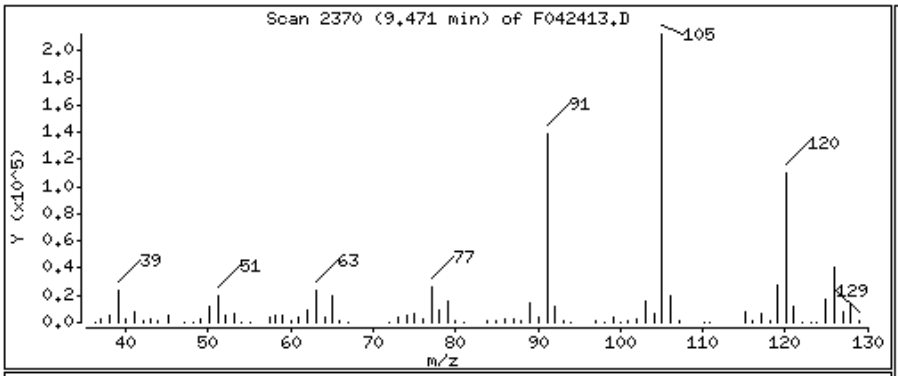
Client ID: VSTD050 Instrument: voa10.i

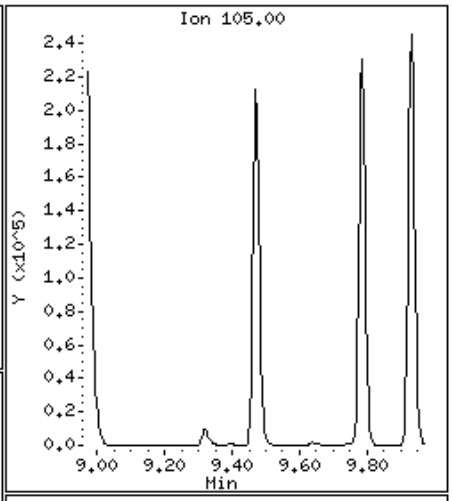
Sample Info: VSTD050;VSTD050;2;;ICV

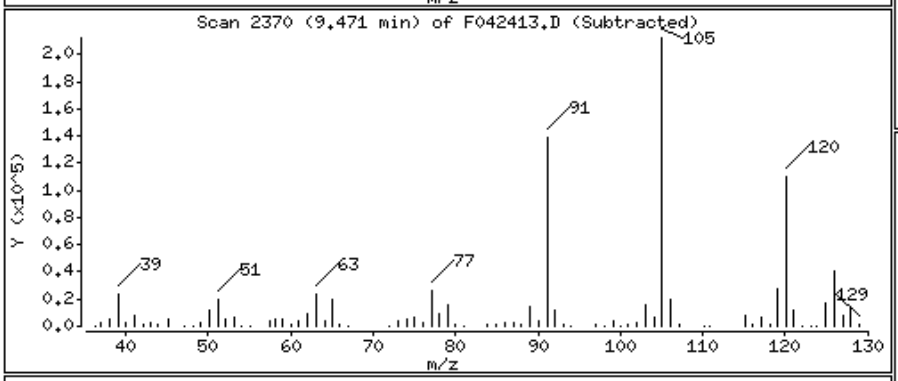
Purge Volume: 5.0 Operator: TS

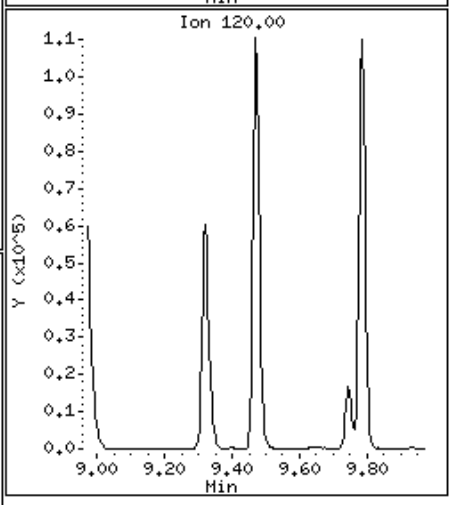
Column phase: DB624 Column diameter: 0.18

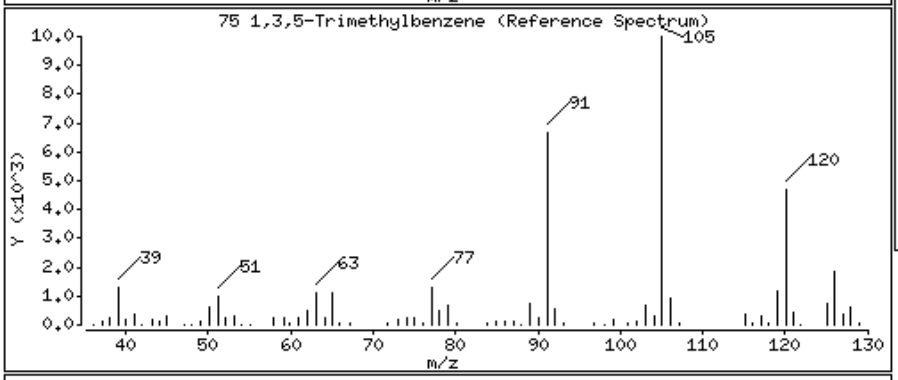
75 1,3,5-Trimethylbenzene Concentration: 54.78 ug/l

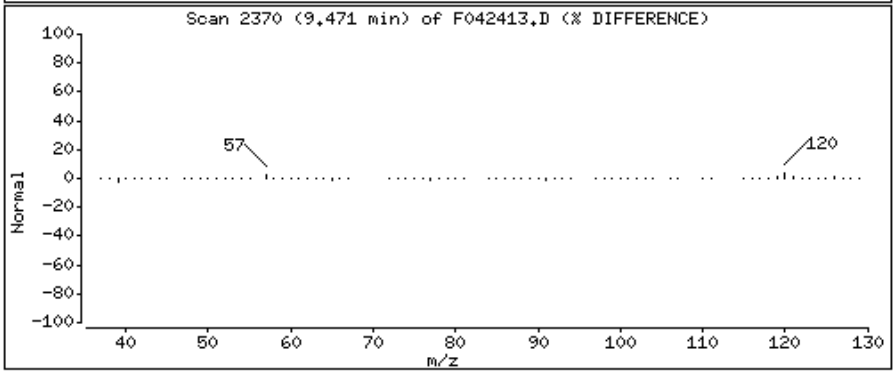












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 68

Date : 24-APR-2024 13:44

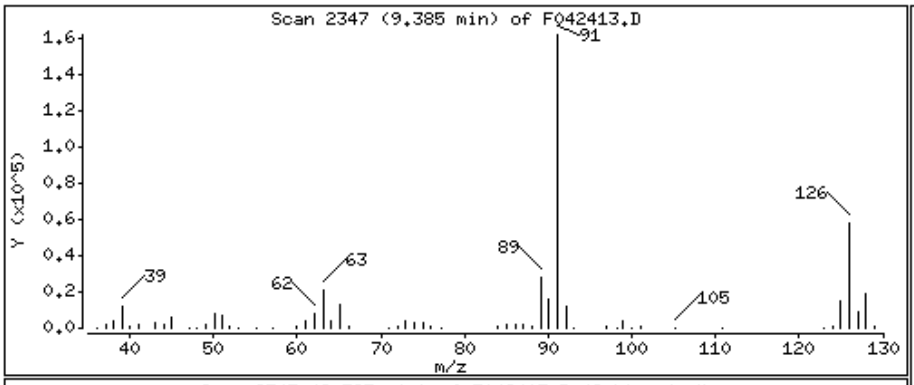
Client ID: VSTD050 Instrument: voa10.i

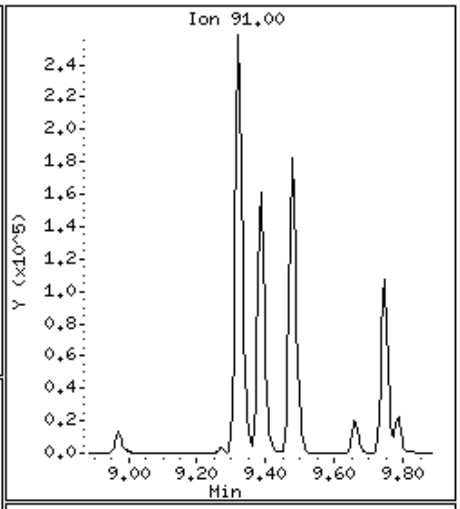
Sample Info: VSTD050;VSTD050;2;;ICV

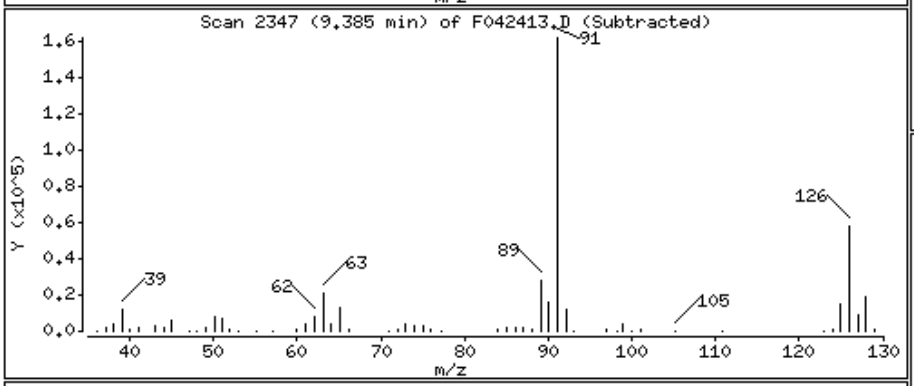
Purge Volume: 5.0 Operator: TS

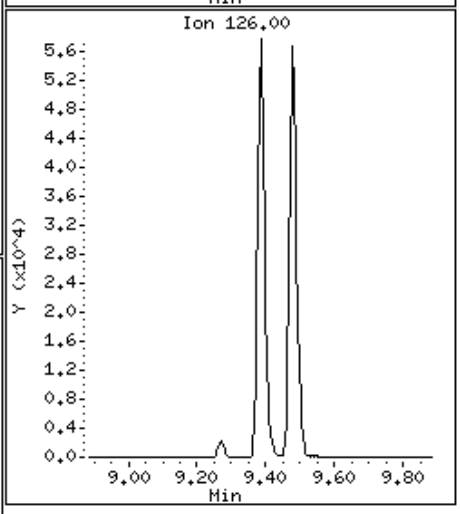
Column phase: DB624 Column diameter: 0.18

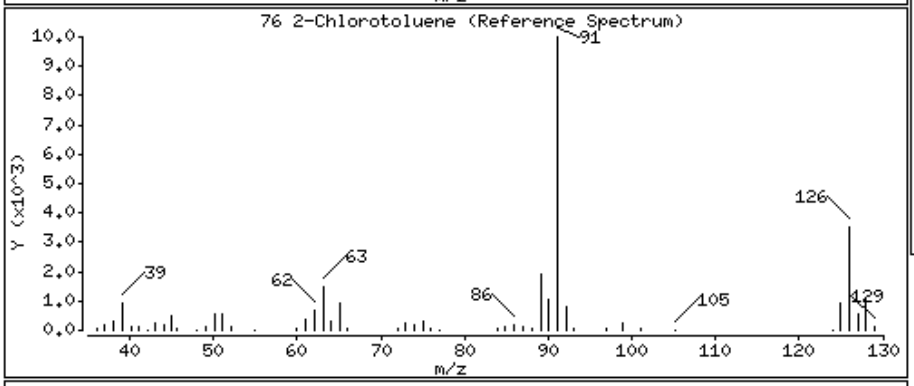
76 2-Chlorotoluene Concentration: 53.27 ug/l

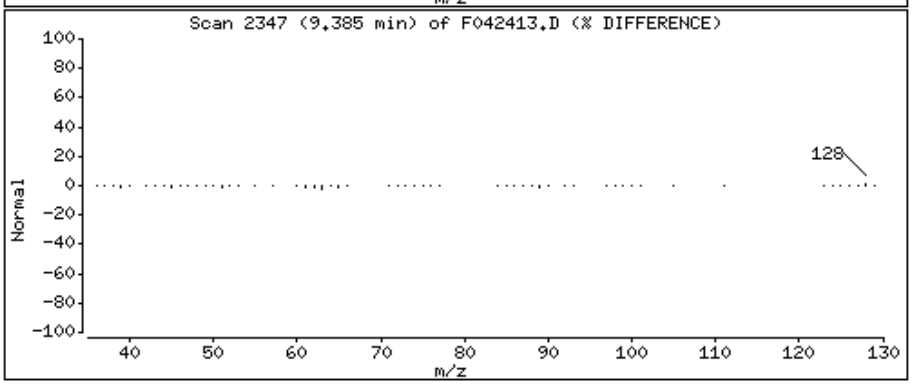












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 69

Date : 24-APR-2024 13:44

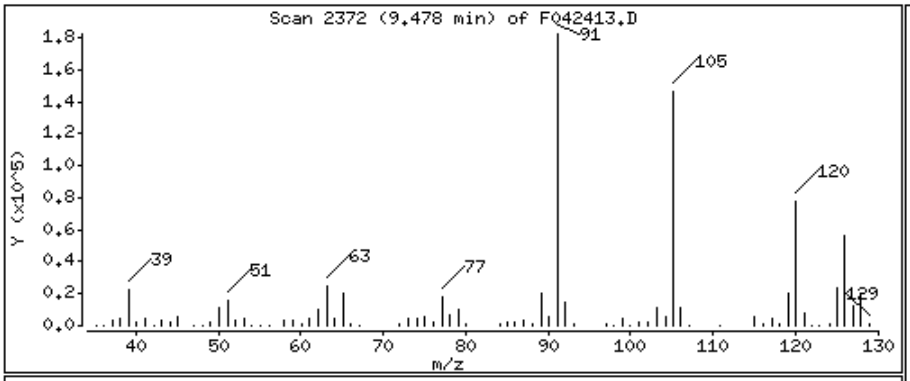
Client ID: VSTD050 Instrument: voa10.i

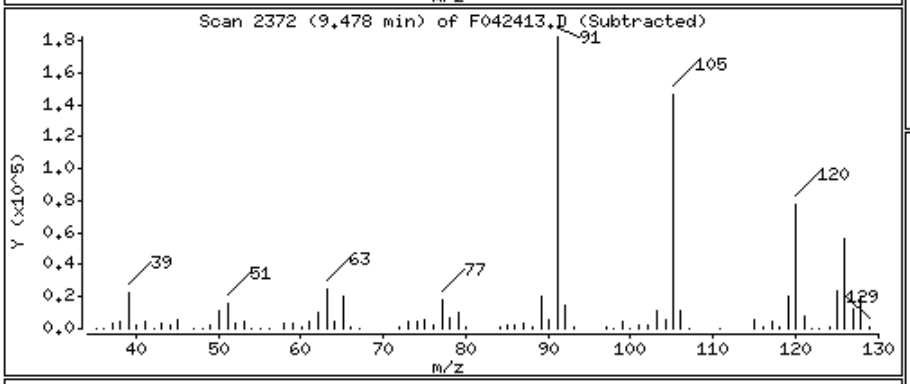
Sample Info: VSTD050;VSTD050;2;;ICV

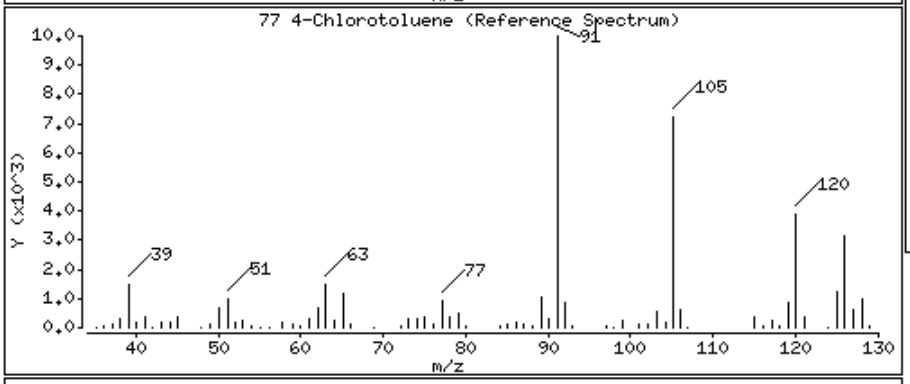
Purge Volume: 5.0 Operator: TS

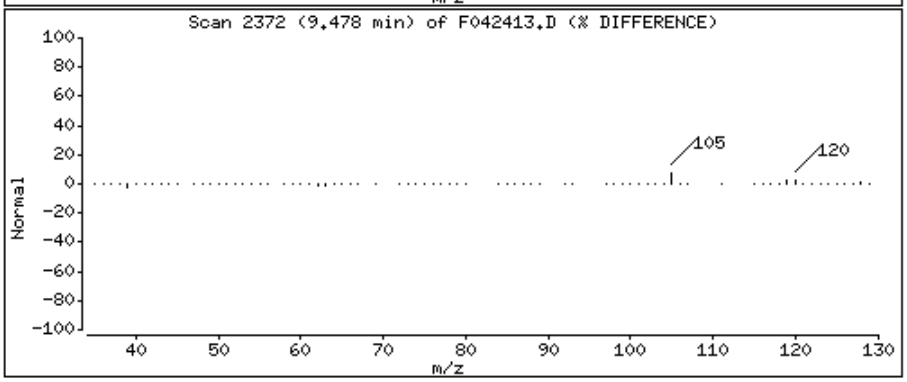
Column phase: DB624 Column diameter: 0.18

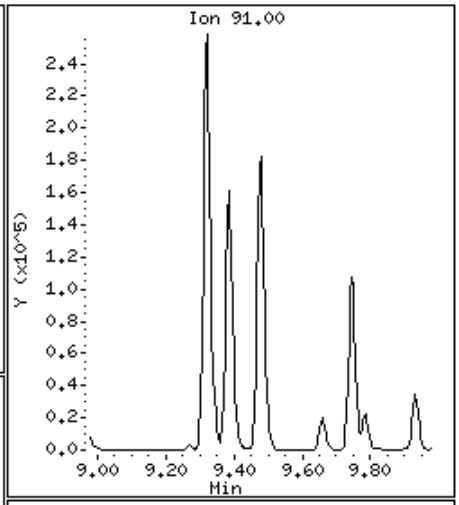
77 4-Chlorotoluene Concentration: 53.47 ug/l

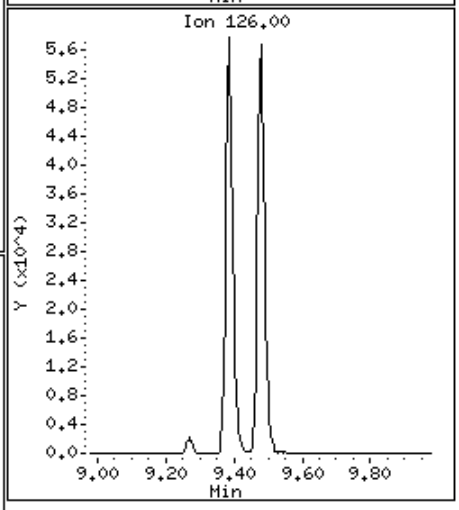












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 70

Date : 24-APR-2024 13:44

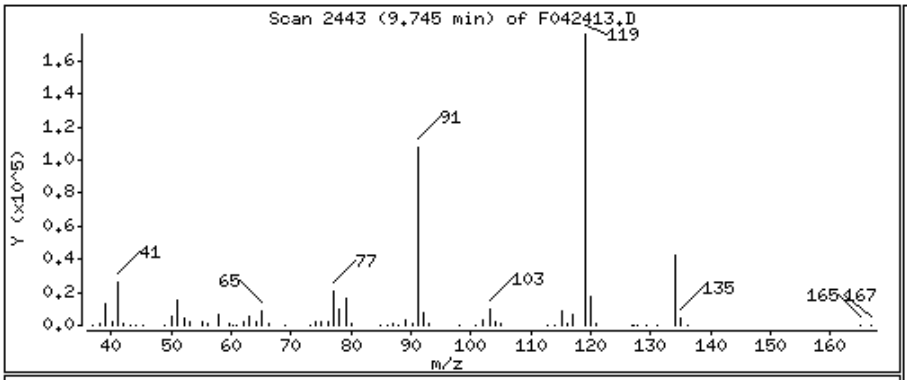
Client ID: VSTD050 Instrument: voa10.i

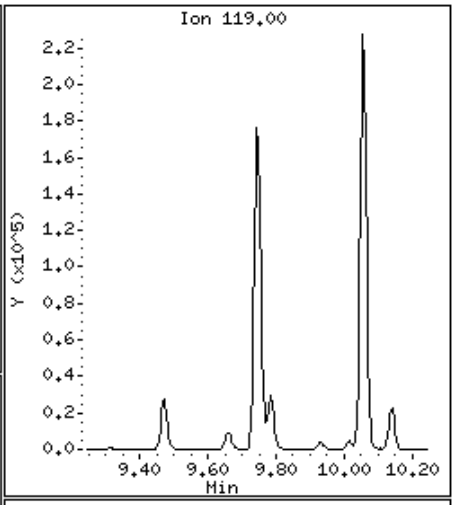
Sample Info: VSTD050;VSTD050;2;;ICV

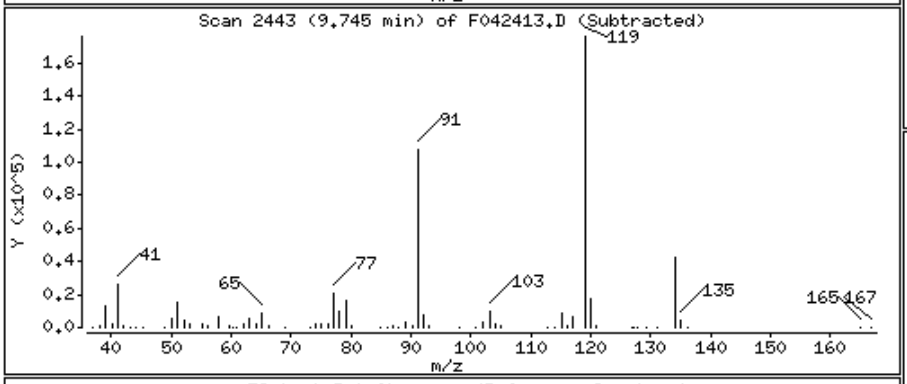
Purge Volume: 5.0 Operator: TS

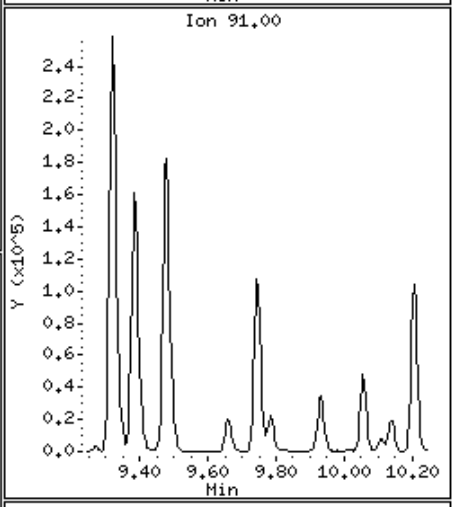
Column phase: DB624 Column diameter: 0.18

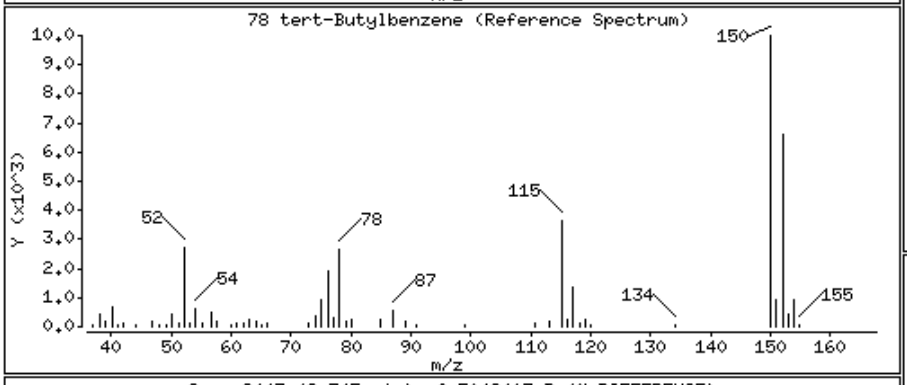
78 tert-Butylbenzene Concentration: 58.63 ug/l

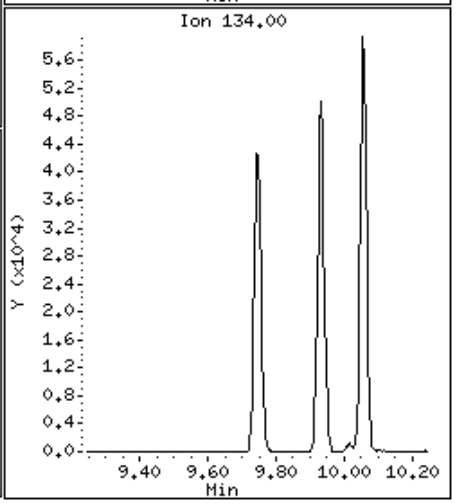


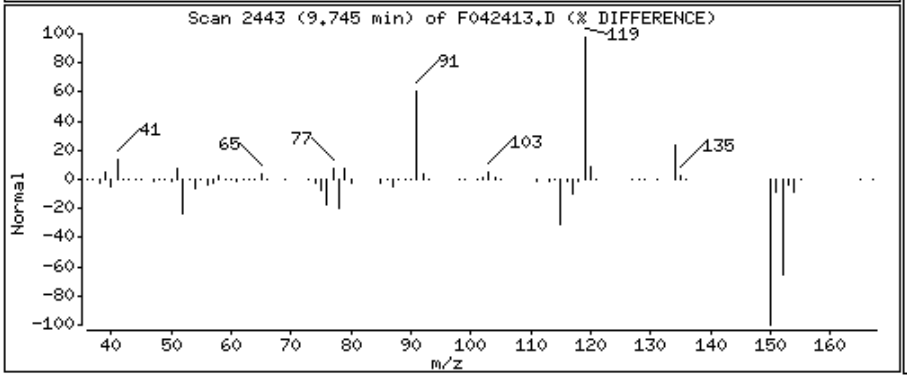












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 71

Date : 24-APR-2024 13:44

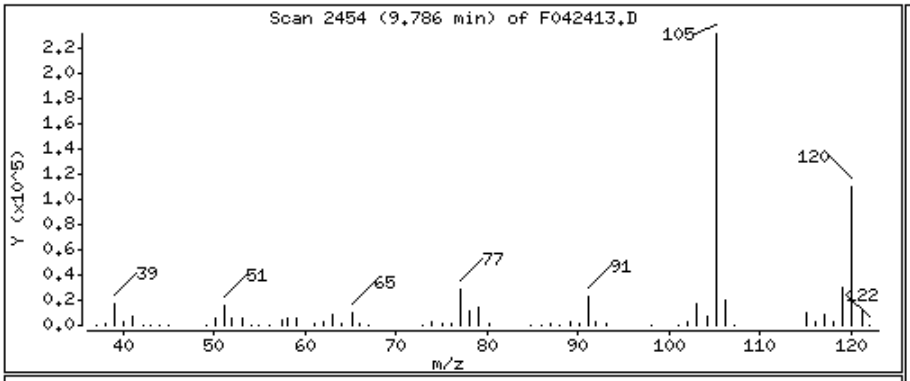
Client ID: VSTD050 Instrument: voa10.i

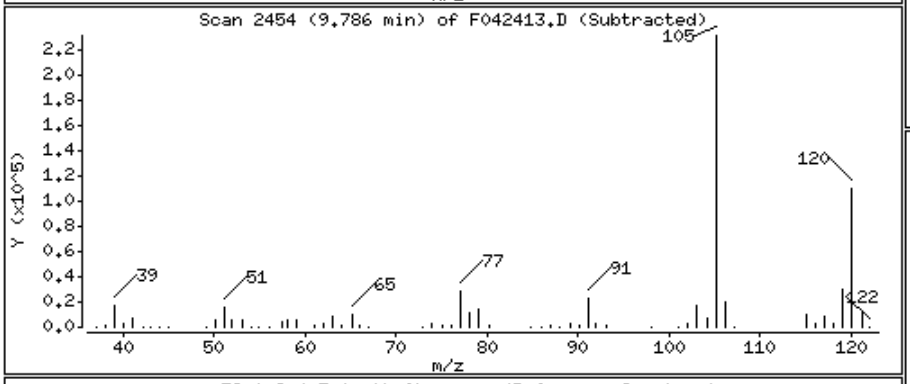
Sample Info: VSTD050;VSTD050;2;;ICV

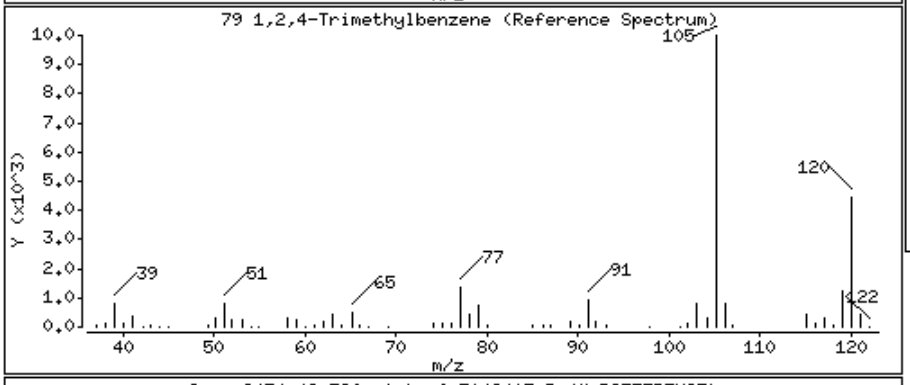
Purge Volume: 5.0 Operator: TS

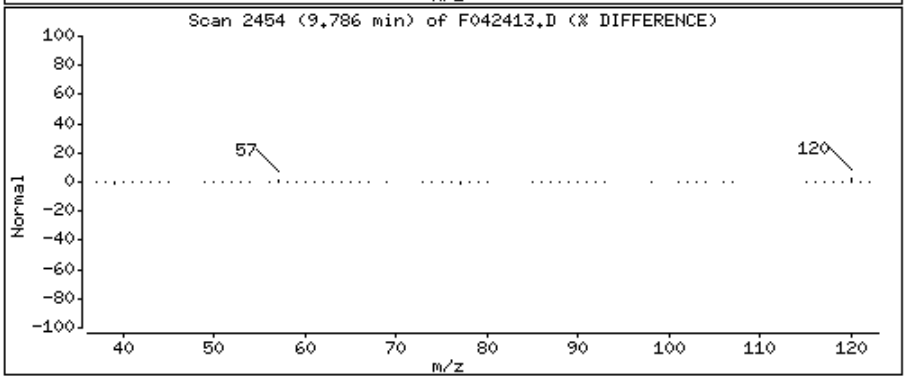
Column phase: DB624 Column diameter: 0.18

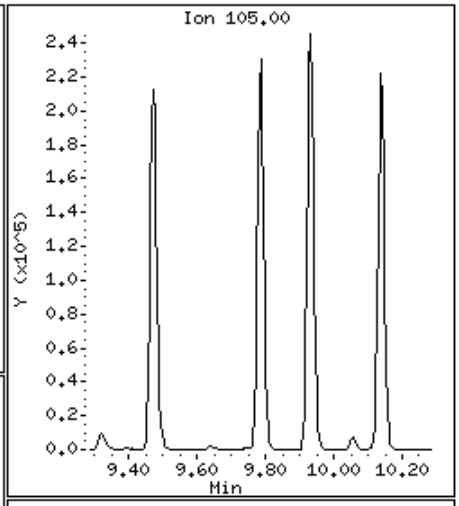
79 1,2,4-Trimethylbenzene Concentration: 56.49 ug/l

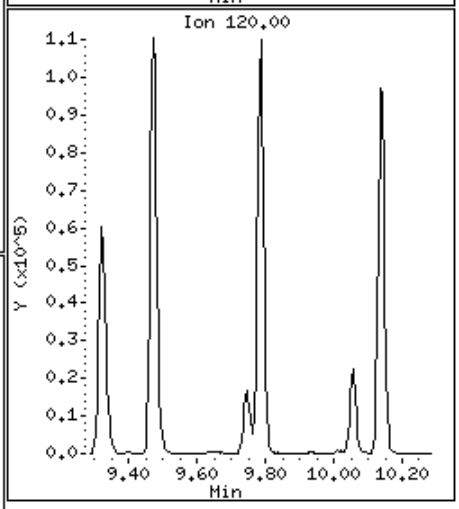












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 72

Date : 24-APR-2024 13:44

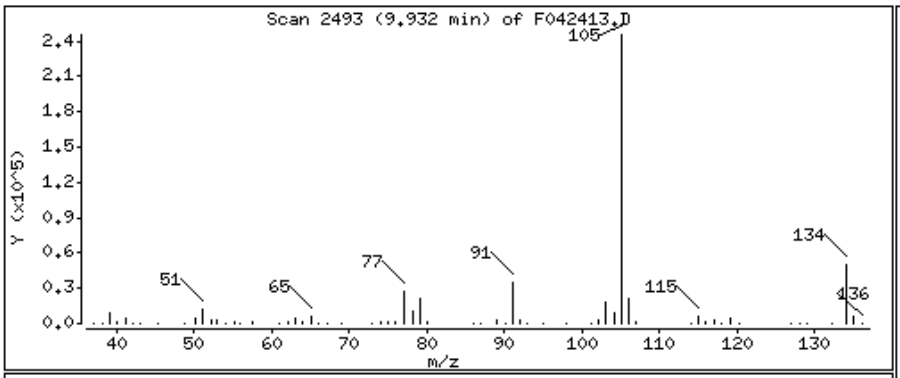
Client ID: VSTD050 Instrument: voa10.i

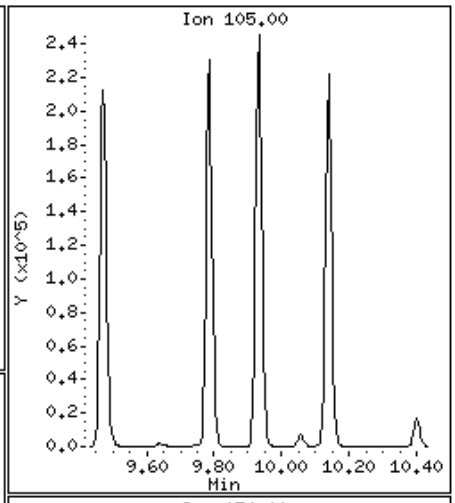
Sample Info: VSTD050;VSTD050;2;;ICV

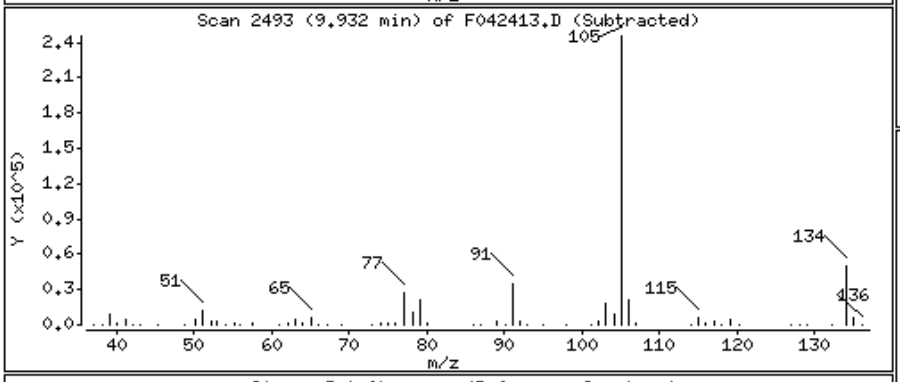
Purge Volume: 5.0 Operator: TS

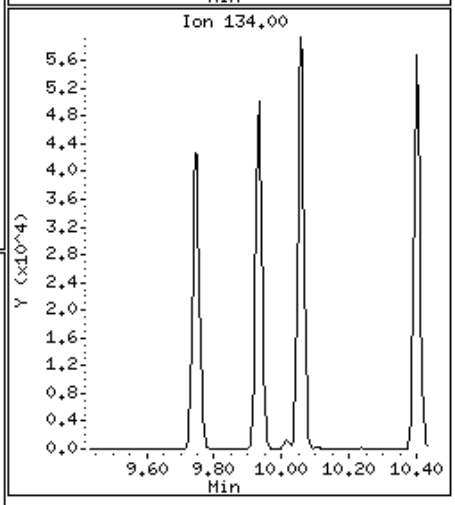
Column phase: DB624 Column diameter: 0.18

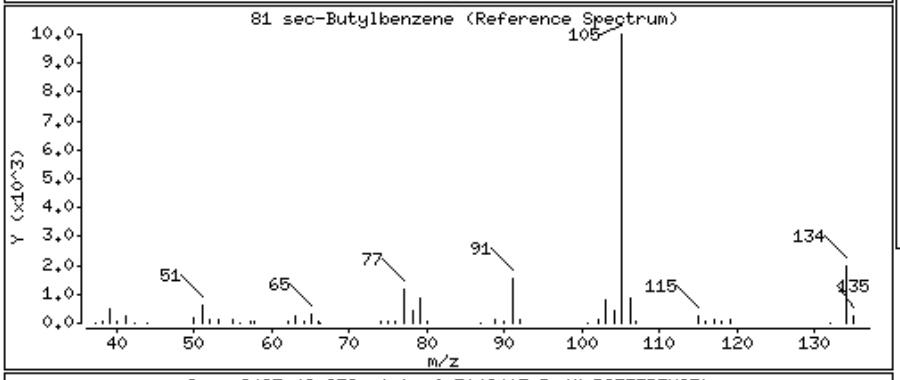
81 sec-Butylbenzene Concentration: 59.16 ug/l

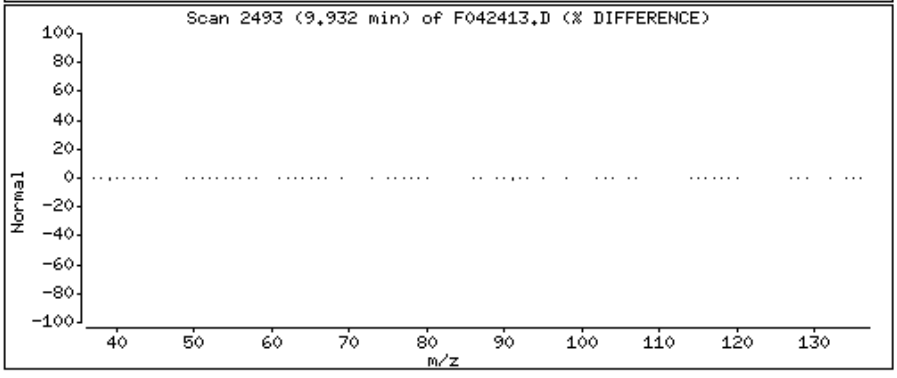












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 73

Date : 24-APR-2024 13:44

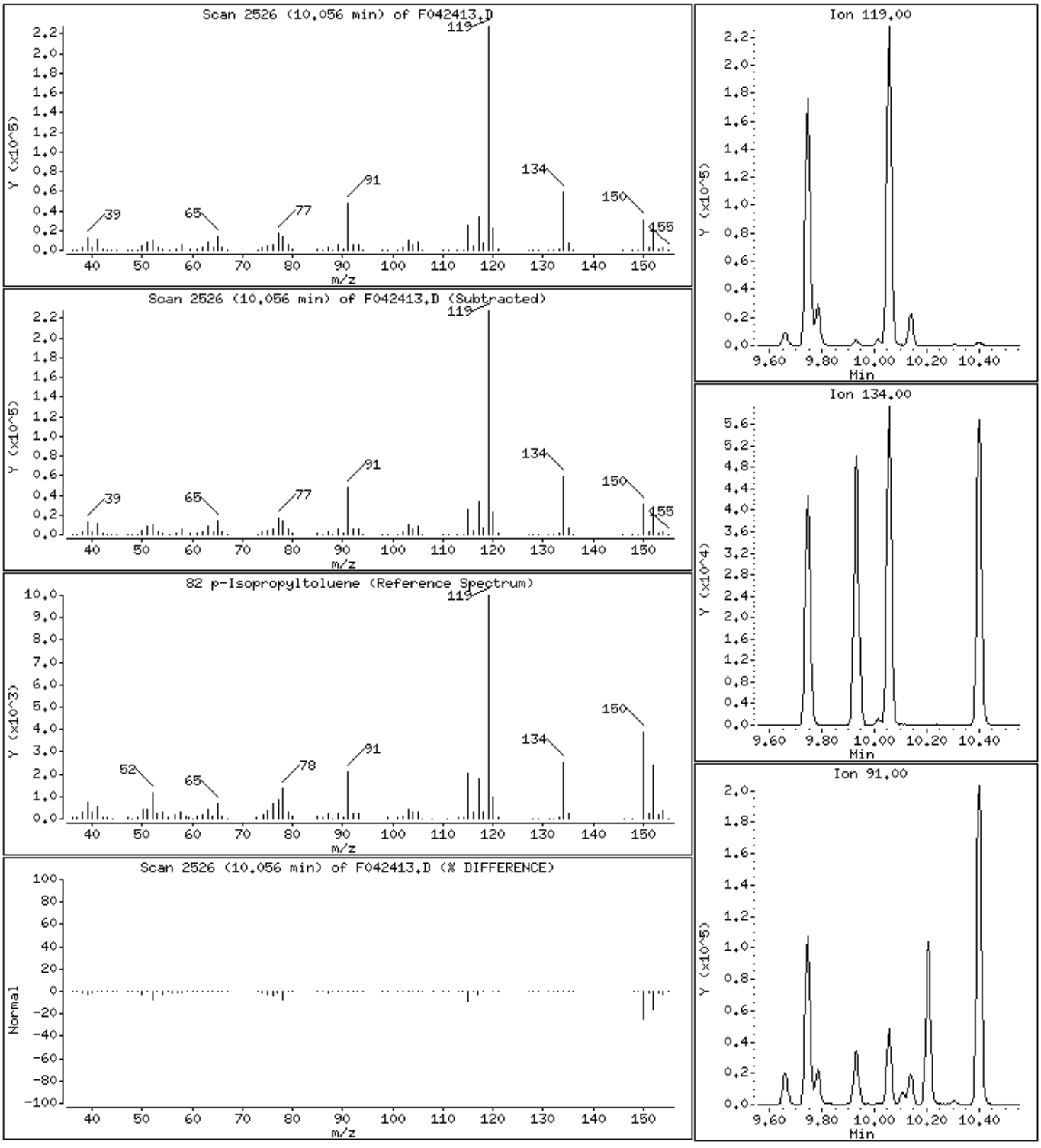
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

82 p-Isopropyltoluene Concentration: 56.54 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 74

Date : 24-APR-2024 13:44

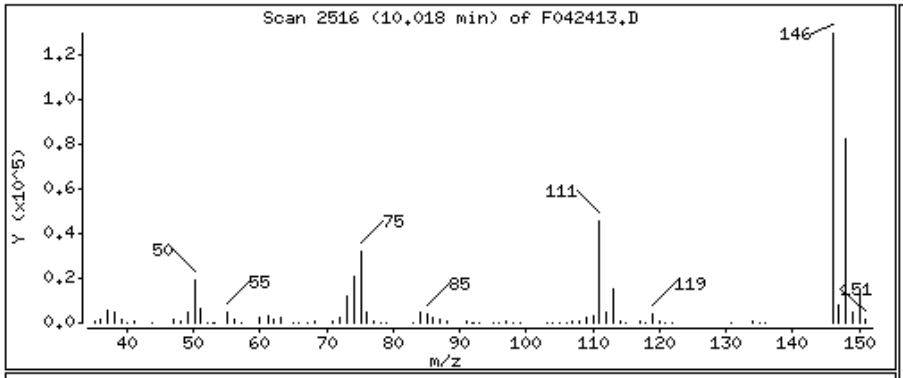
Client ID: VSTD050 Instrument: voa10.i

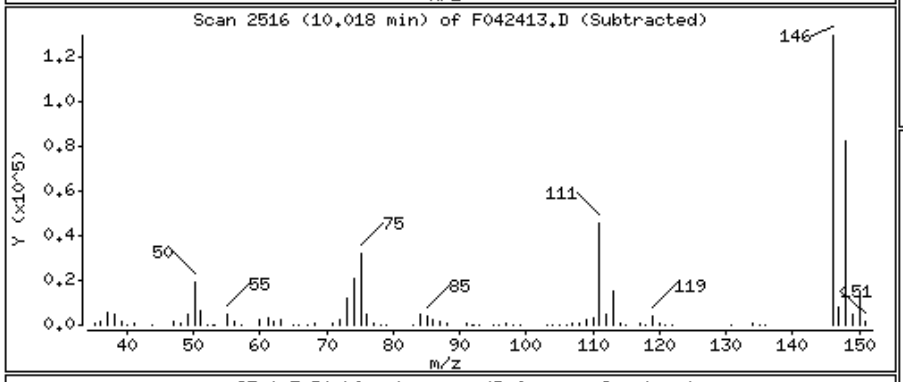
Sample Info: VSTD050;VSTD050;2;;ICV

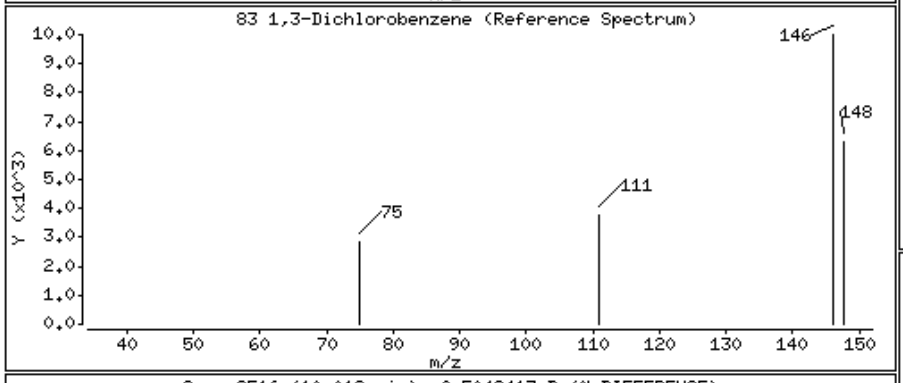
Purge Volume: 5.0 Operator: TS

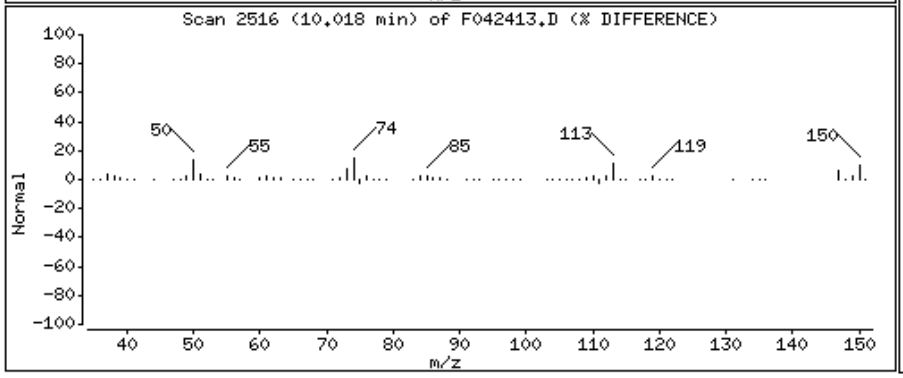
Column phase: DB624 Column diameter: 0.18

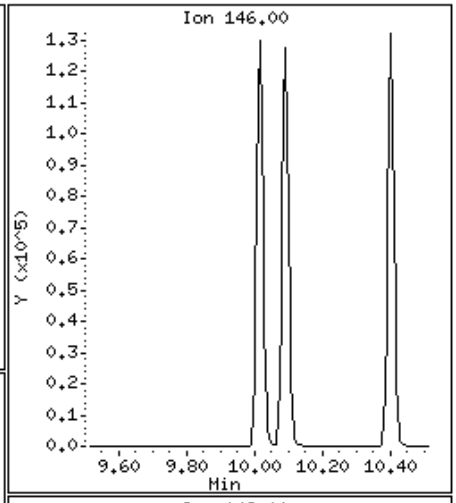
83 1,3-Dichlorobenzene Concentration: 53.63 ug/l

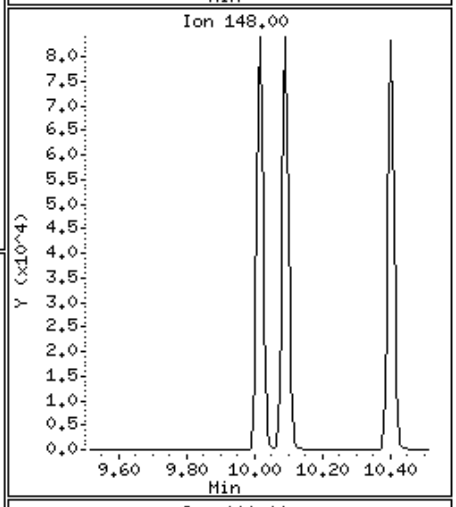


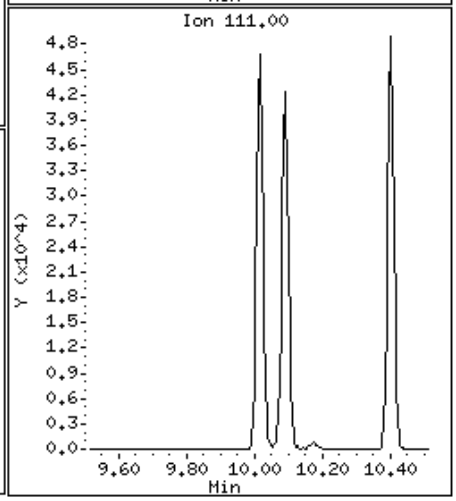












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 75

Date : 24-APR-2024 13:44

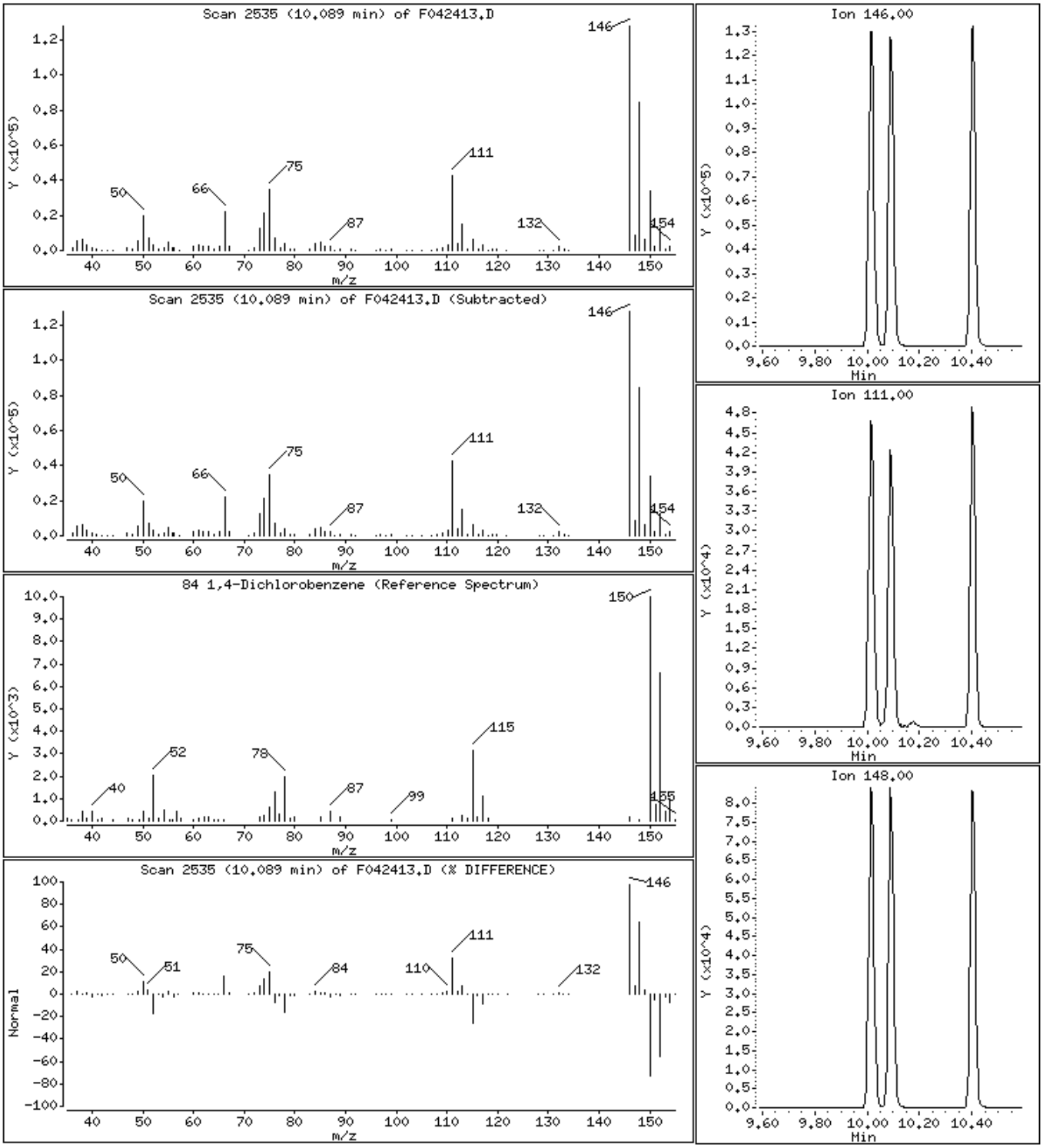
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

84 1,4-Dichlorobenzene Concentration: 49.78 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 76

Date : 24-APR-2024 13:44

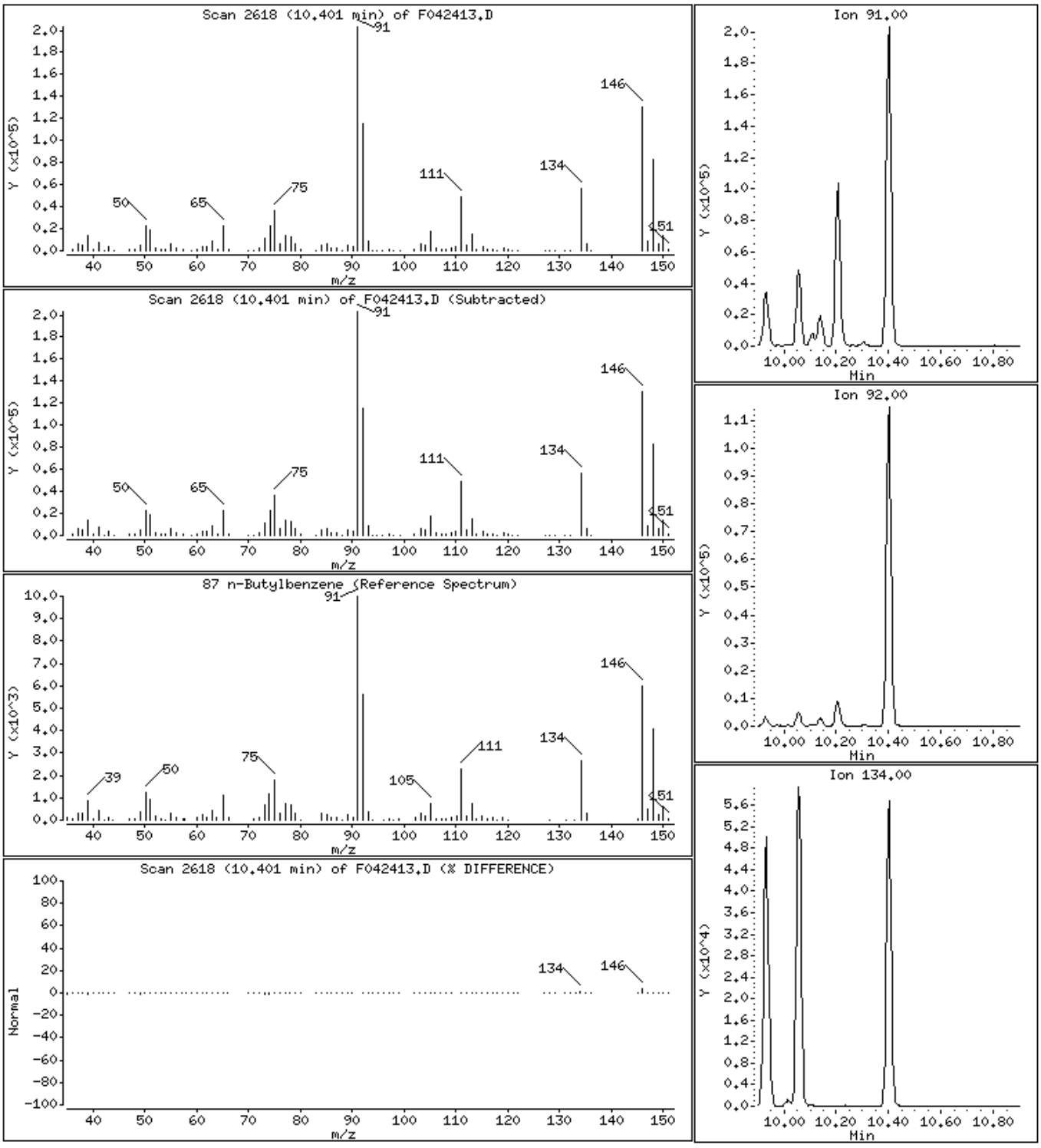
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

87 n-Butylbenzene Concentration: 57.83 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 77

Date : 24-APR-2024 13:44

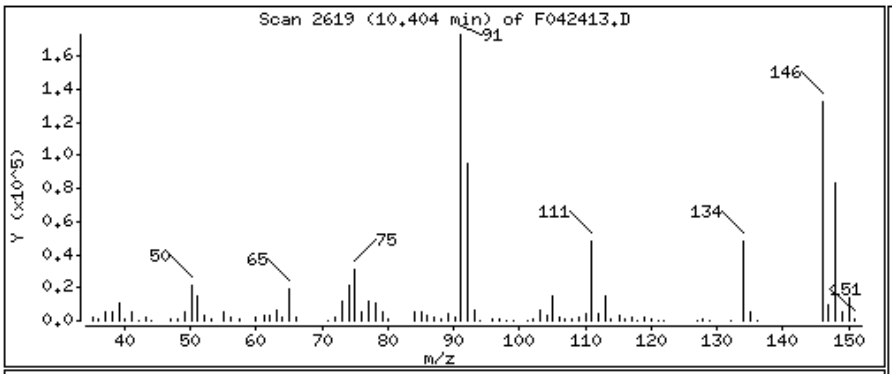
Client ID: VSTD050 Instrument: voa10.i

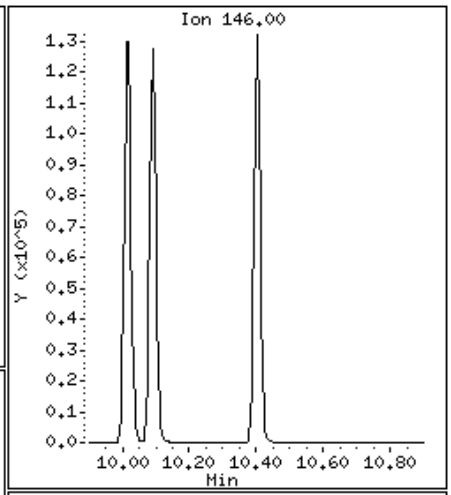
Sample Info: VSTD050;VSTD050;2;;ICV

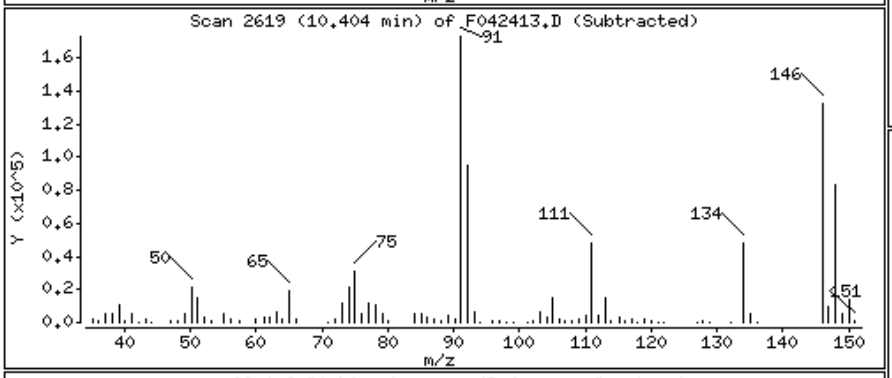
Purge Volume: 5.0 Operator: TS

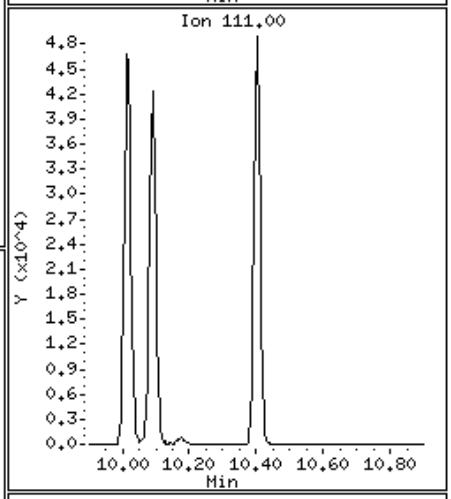
Column phase: DB624 Column diameter: 0.18

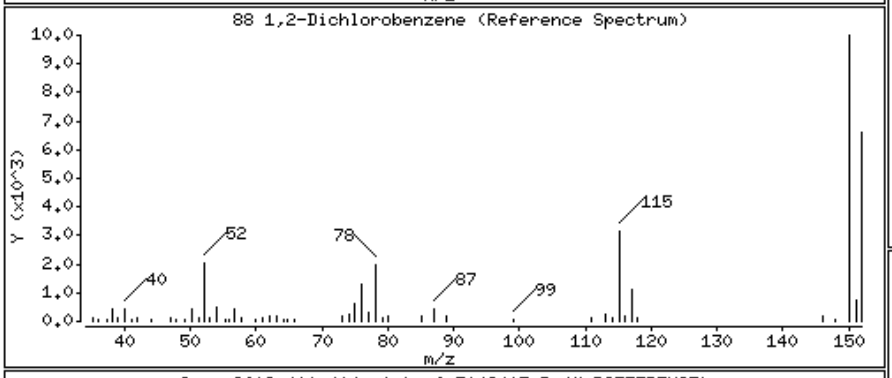
88 1,2-Dichlorobenzene Concentration: 51.62 ug/l

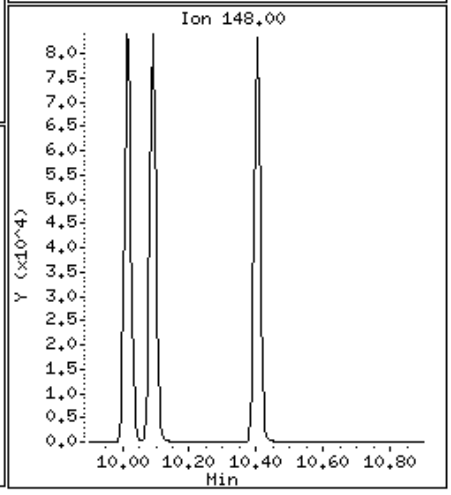


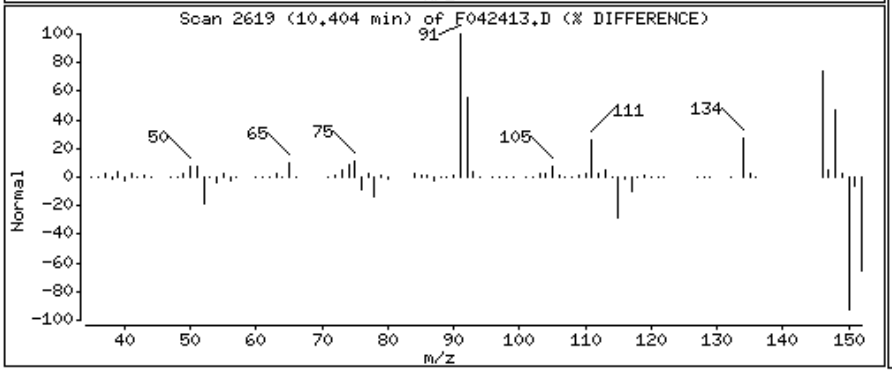












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 78

Date : 24-APR-2024 13:44

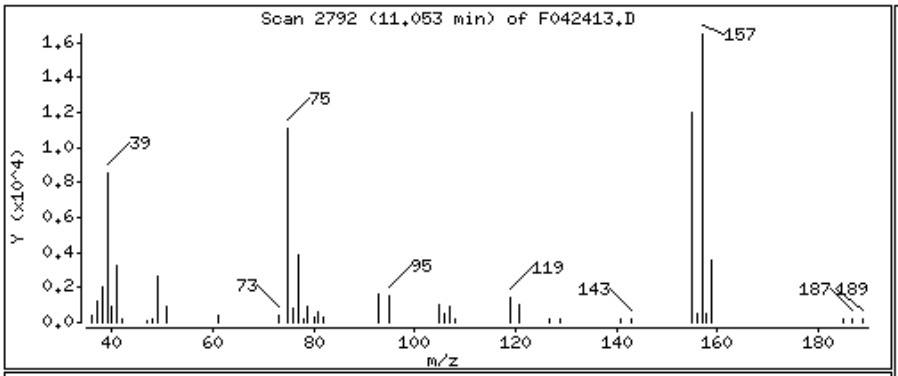
Client ID: VSTD050 Instrument: voa10.i

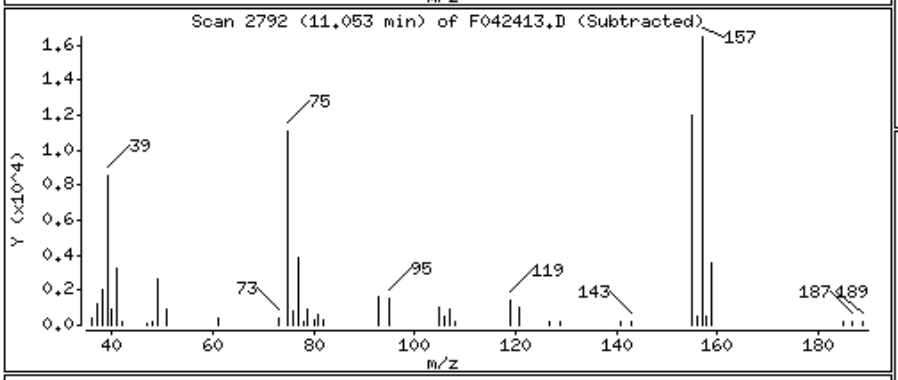
Sample Info: VSTD050;VSTD050;2;;ICV

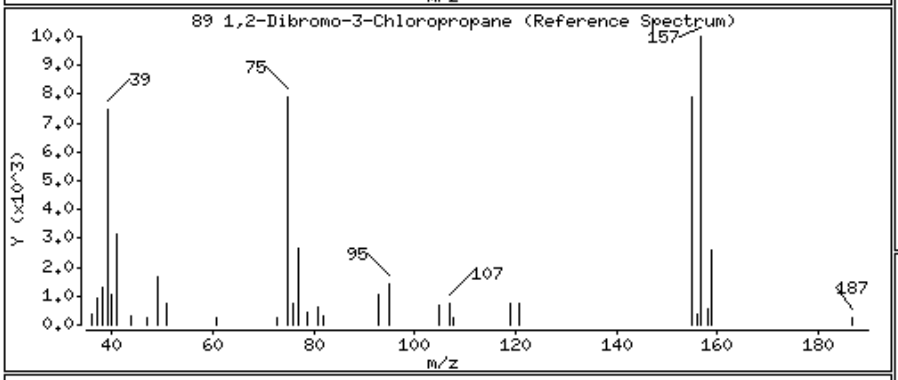
Purge Volume: 5.0 Operator: TS

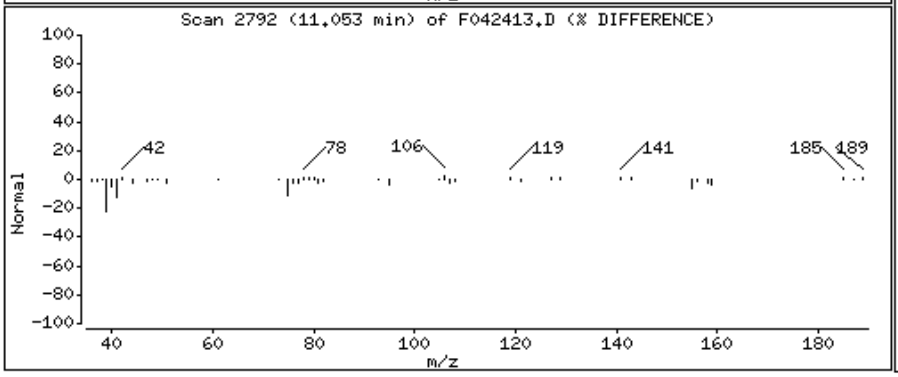
Column phase: DB624 Column diameter: 0.18

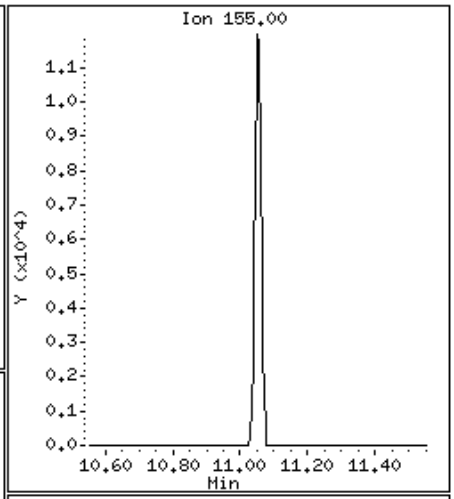
89 1,2-Dibromo-3-Chloropropane Concentration: 54.60 ug/l

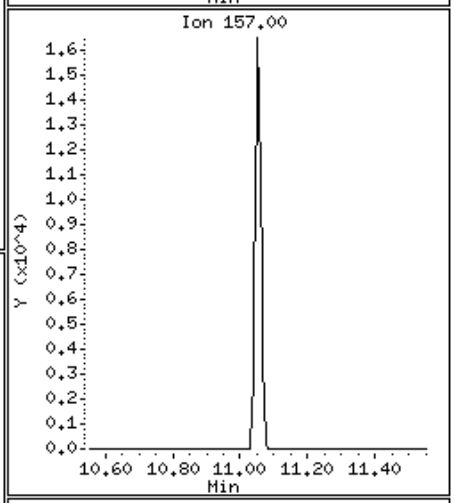


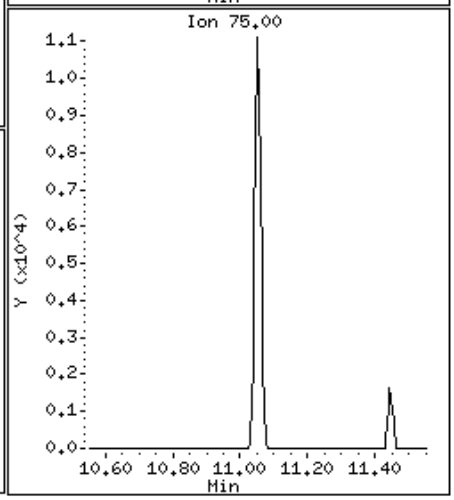












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 79

Date : 24-APR-2024 13:44

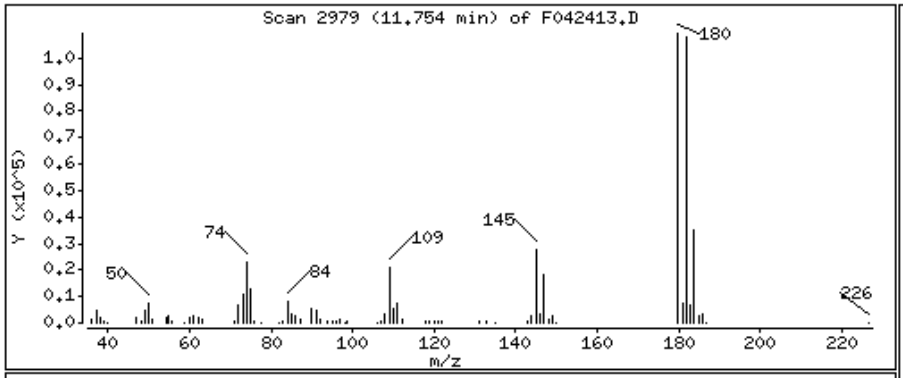
Client ID: VSTD050 Instrument: voa10.i

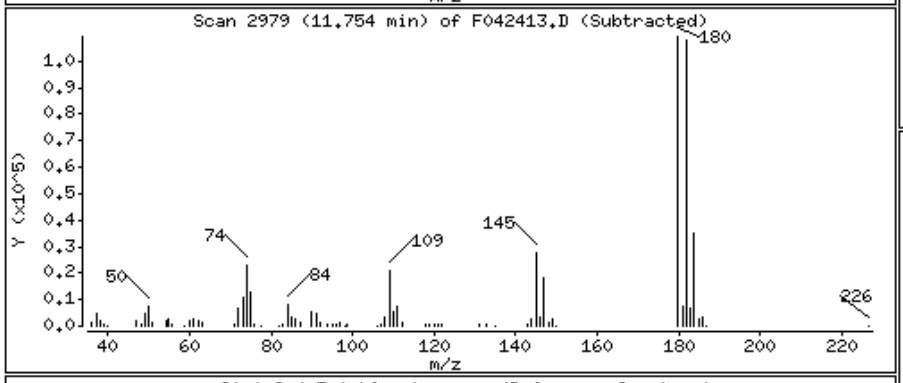
Sample Info: VSTD050;VSTD050;2;;ICV

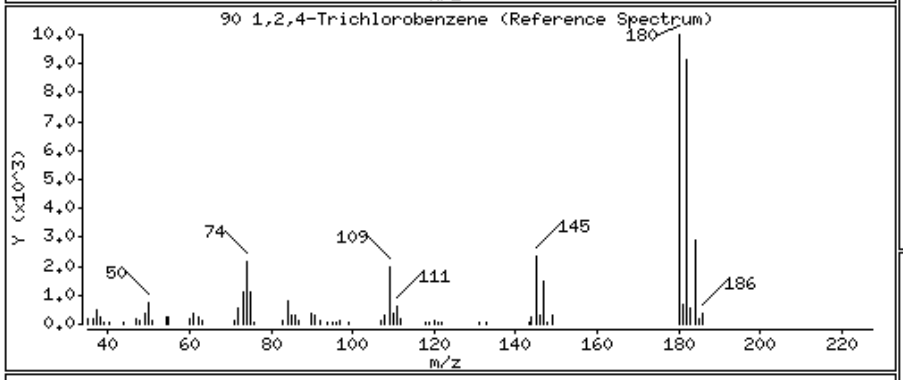
Purge Volume: 5.0 Operator: TS

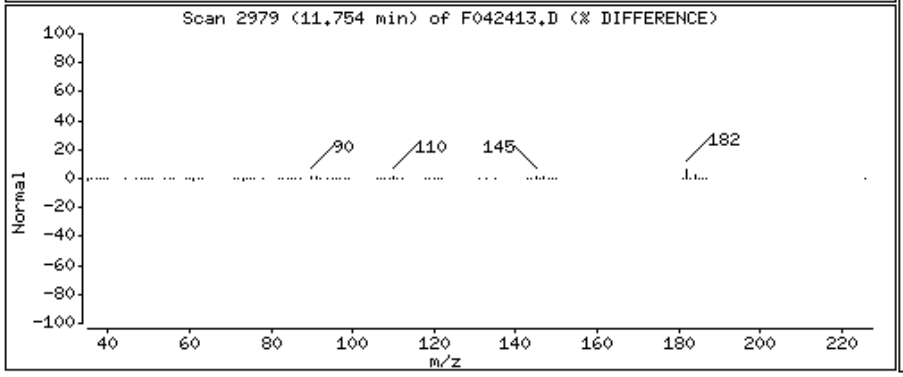
Column phase: DB624 Column diameter: 0.18

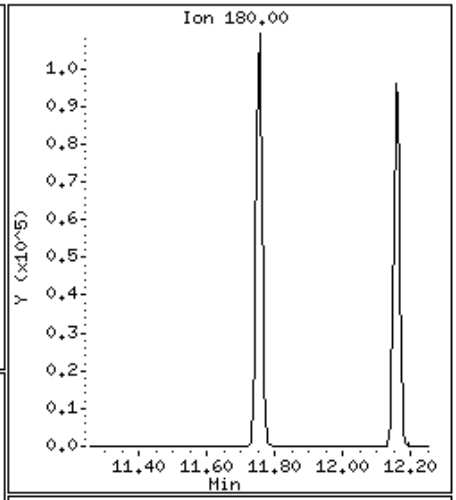
90 1,2,4-Trichlorobenzene Concentration: 55.90 ug/l

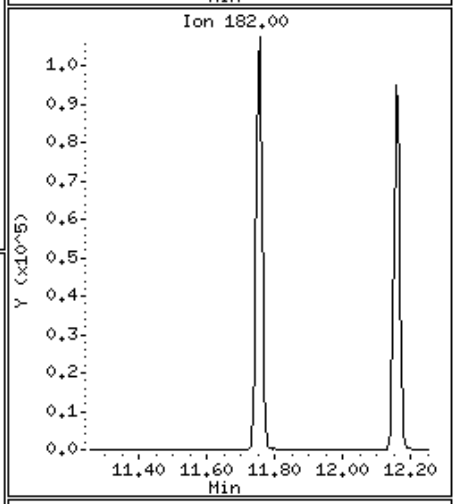


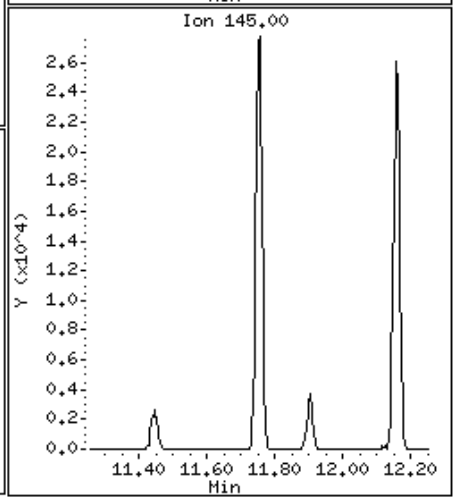












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 80

Date : 24-APR-2024 13:44

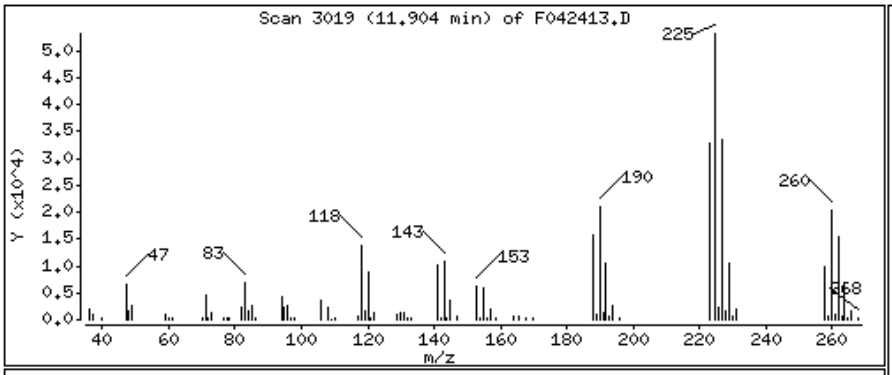
Client ID: VSTD050 Instrument: voa10.i

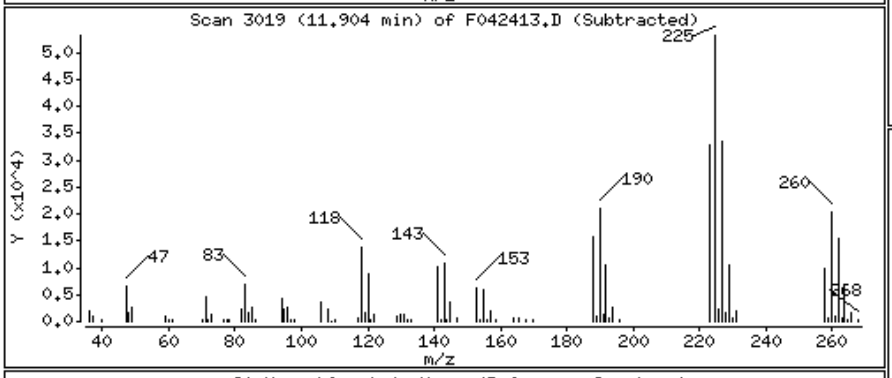
Sample Info: VSTD050;VSTD050;2;;ICV

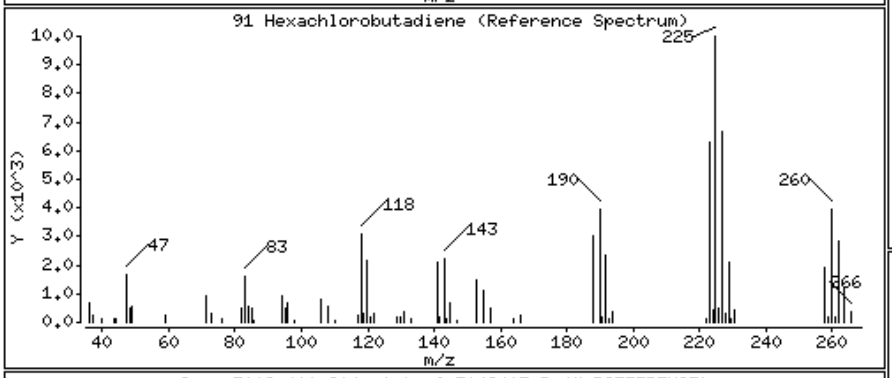
Purge Volume: 5.0 Operator: TS

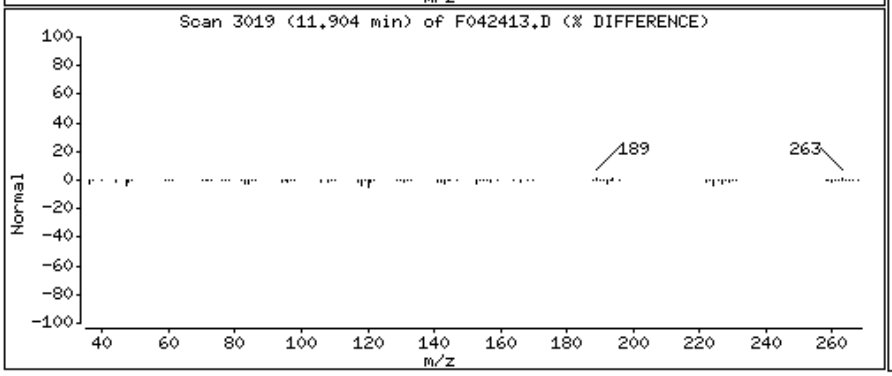
Column phase: DB624 Column diameter: 0.18

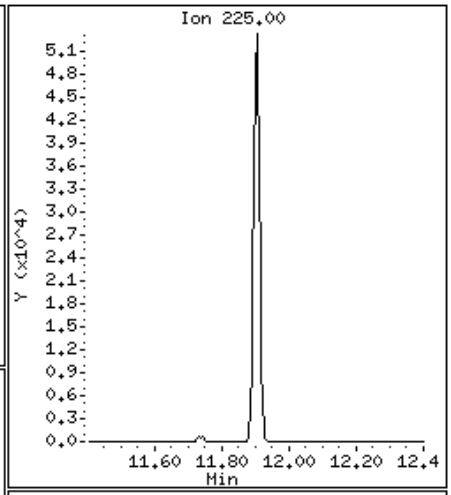
91 Hexachlorobutadiene Concentration: 51.29 ug/l

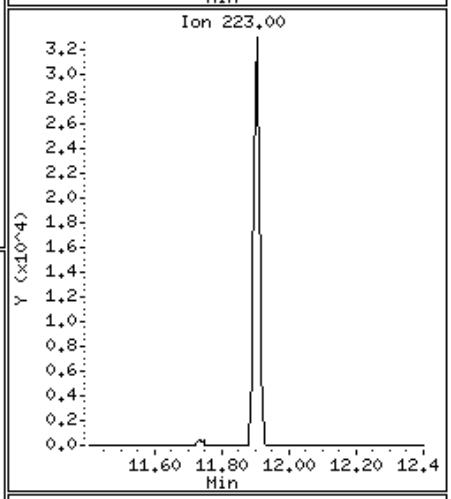


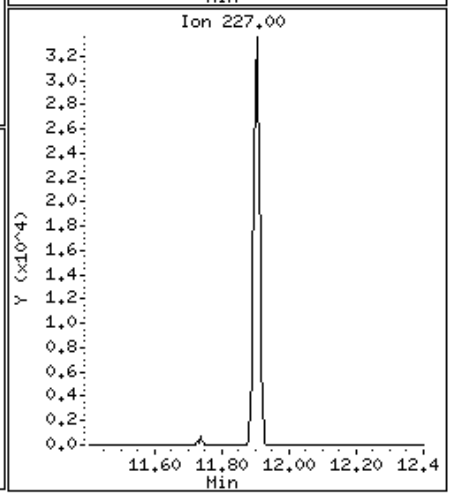












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 81

Date : 24-APR-2024 13:44

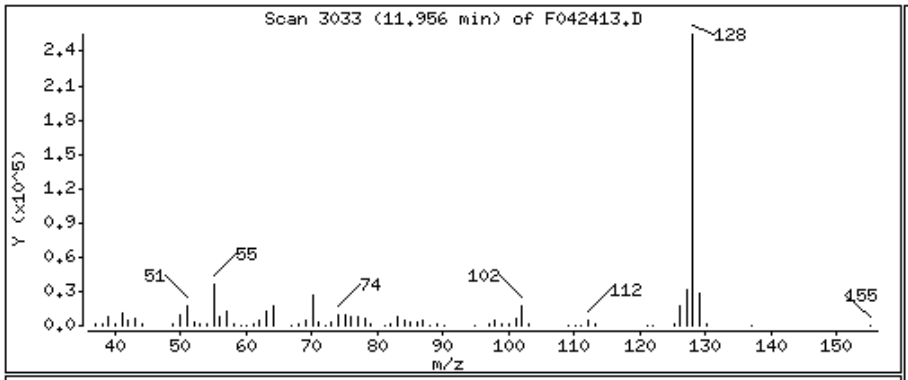
Client ID: VSTD050 Instrument: voa10.i

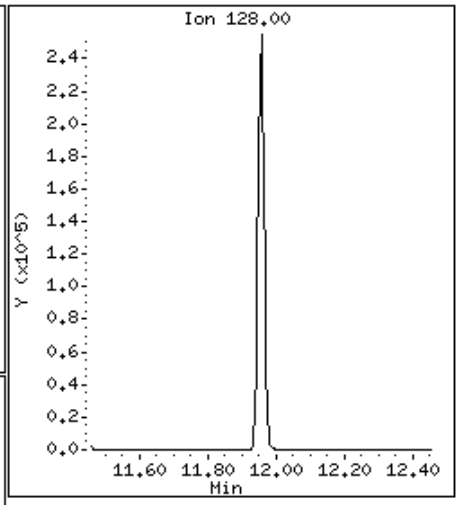
Sample Info: VSTD050;VSTD050;2;;ICV

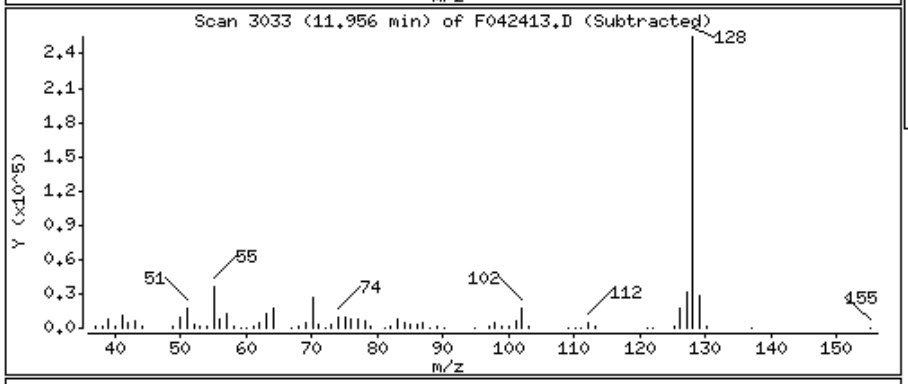
Purge Volume: 5.0 Operator: TS

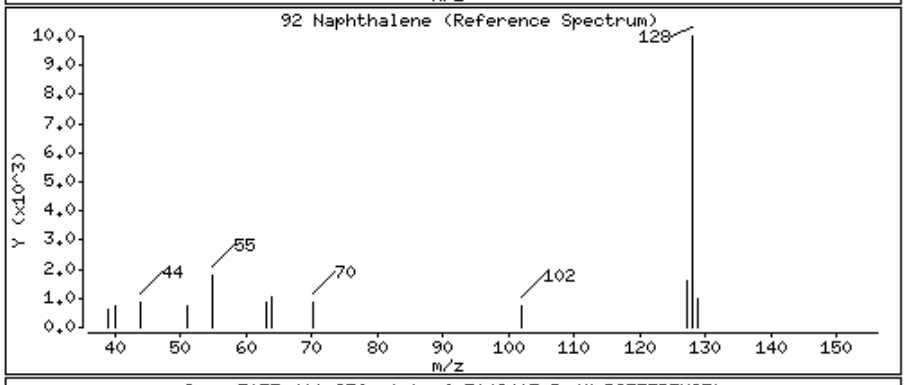
Column phase: DB624 Column diameter: 0.18

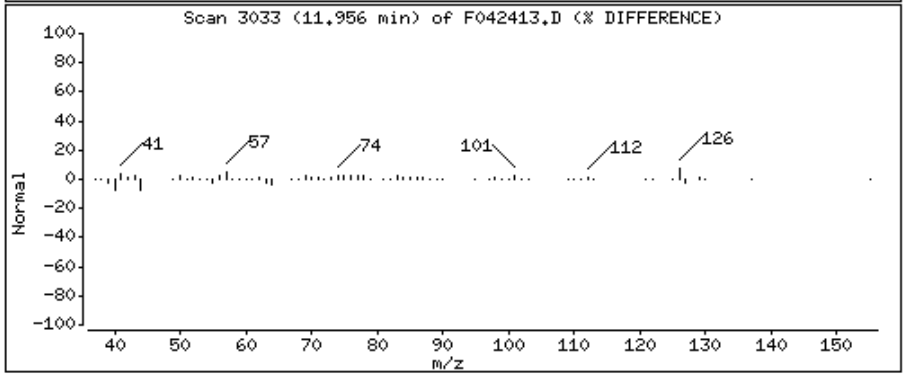
92 Naphthalene Concentration: 52.55 ug/l











Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 82

Date : 24-APR-2024 13:44

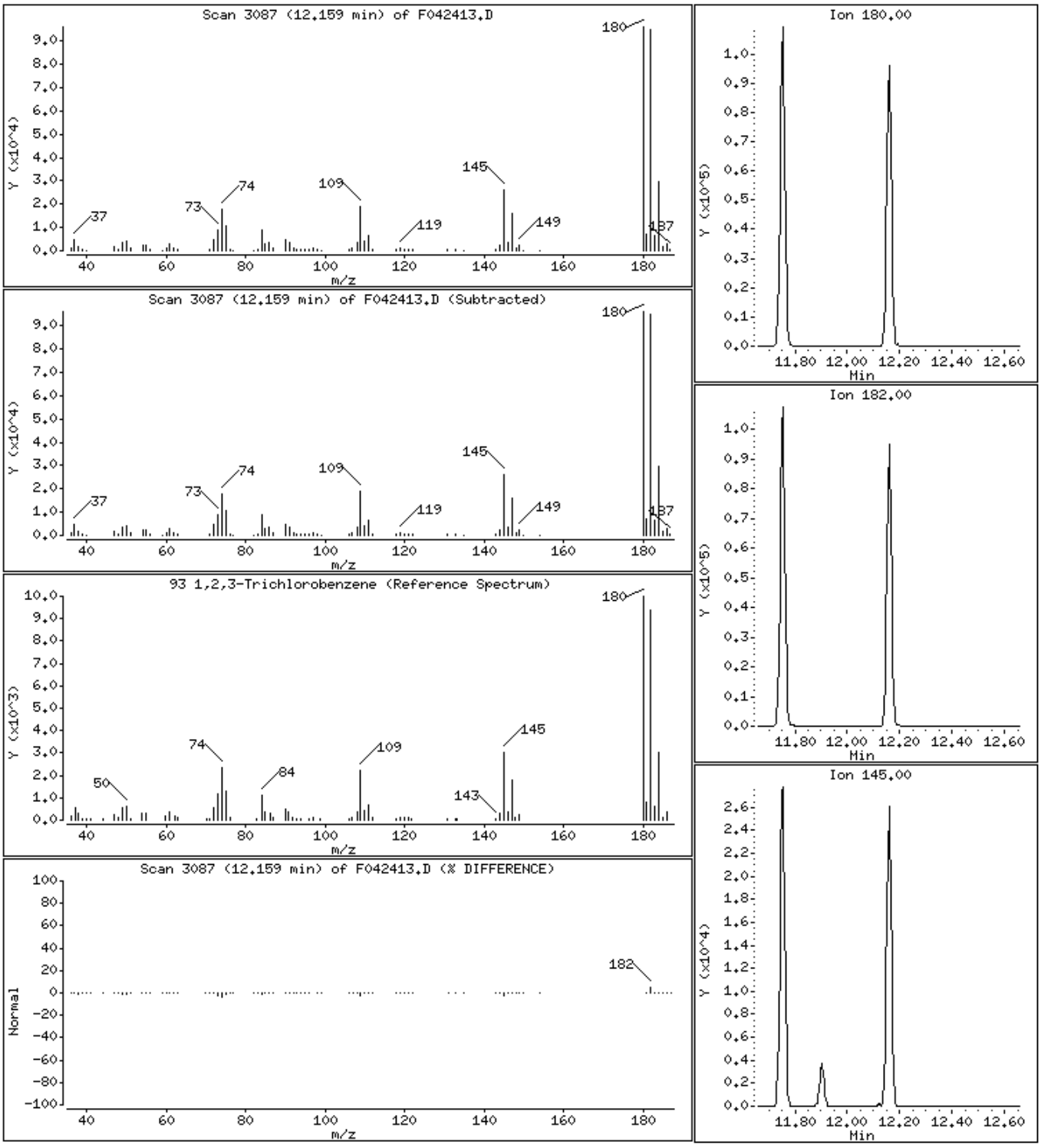
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

93 1,2,3-Trichlorobenzene Concentration: 55.05 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 83

Date : 24-APR-2024 13:44

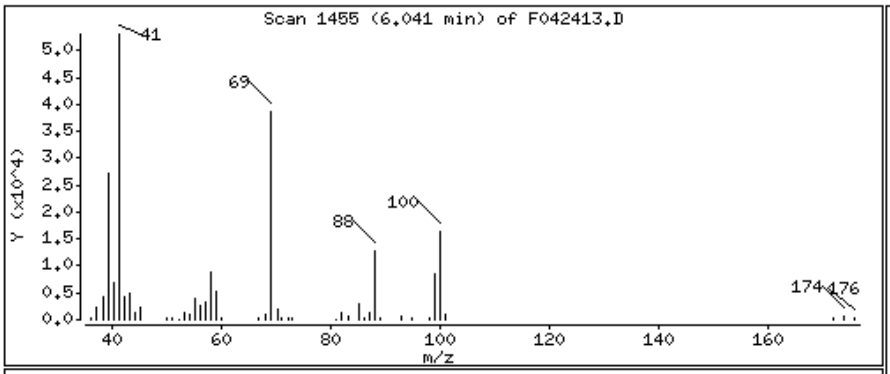
Client ID: VSTD050 Instrument: voa10.i

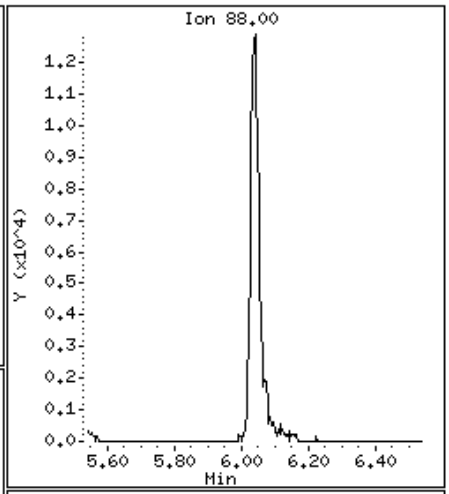
Sample Info: VSTD050;VSTD050;2;;ICV

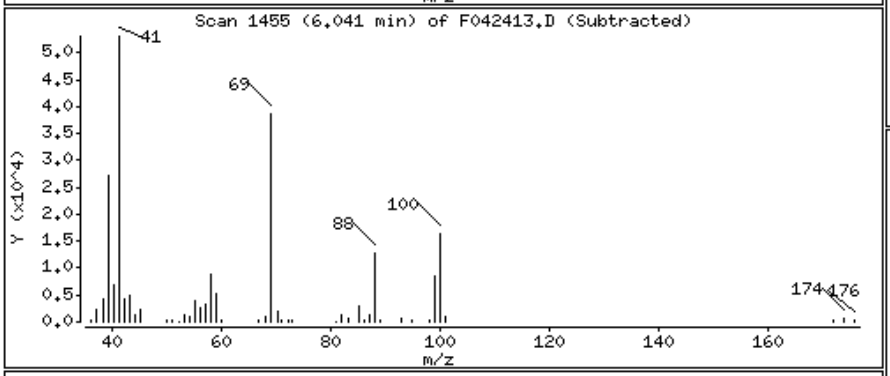
Purge Volume: 5.0 Operator: TS

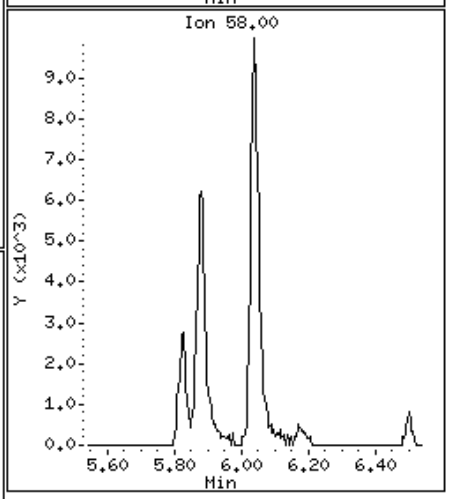
Column phase: DB624 Column diameter: 0.18

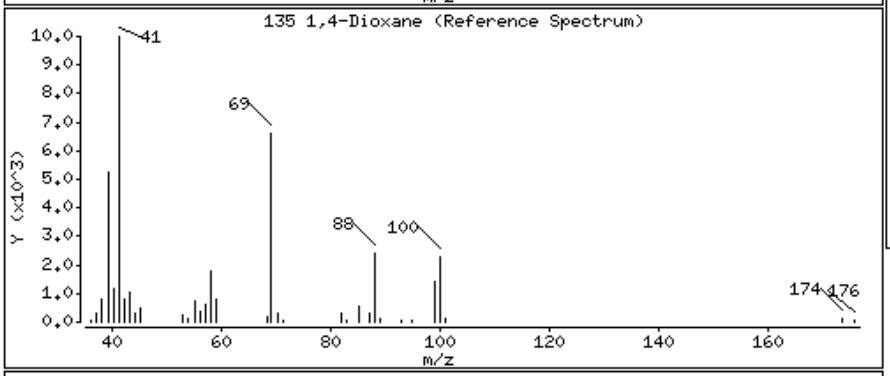
135 1,4-Dioxane Concentration: 995.75 ug/l

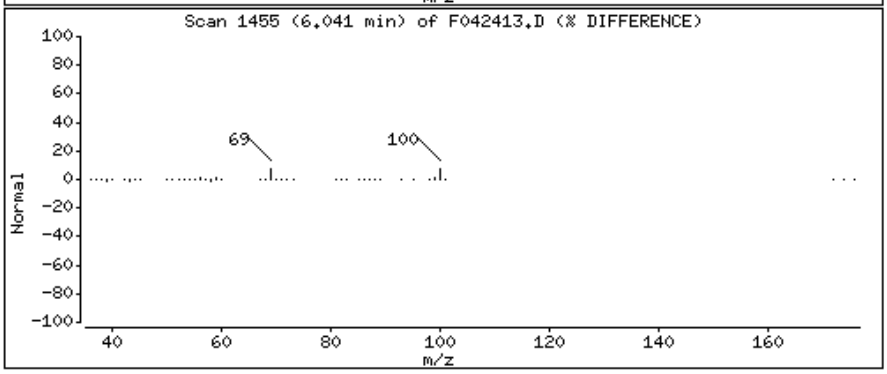












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 84

Date : 24-APR-2024 13:44

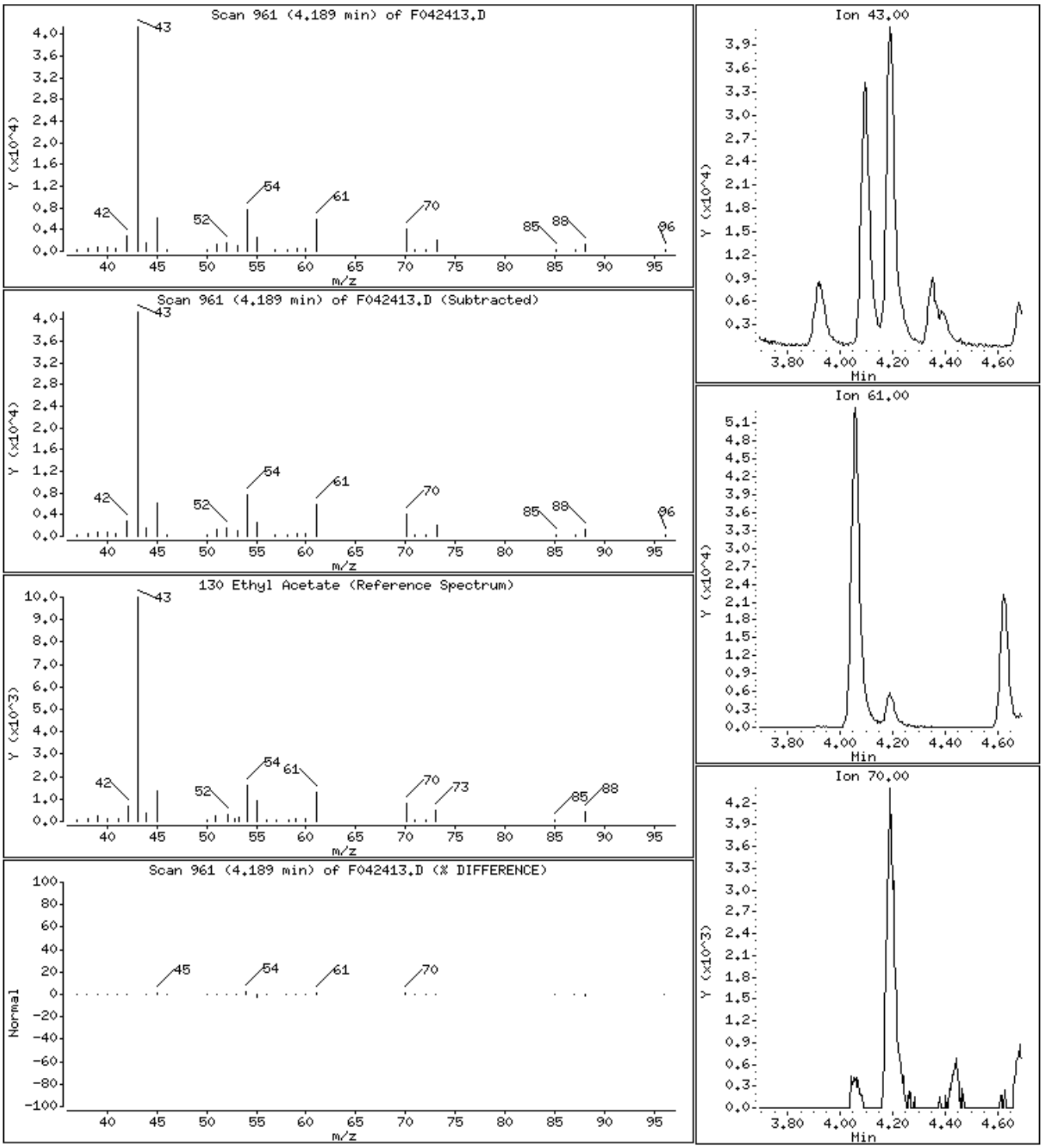
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

130 Ethyl Acetate Concentration: 55.66 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 85

Date : 24-APR-2024 13:44

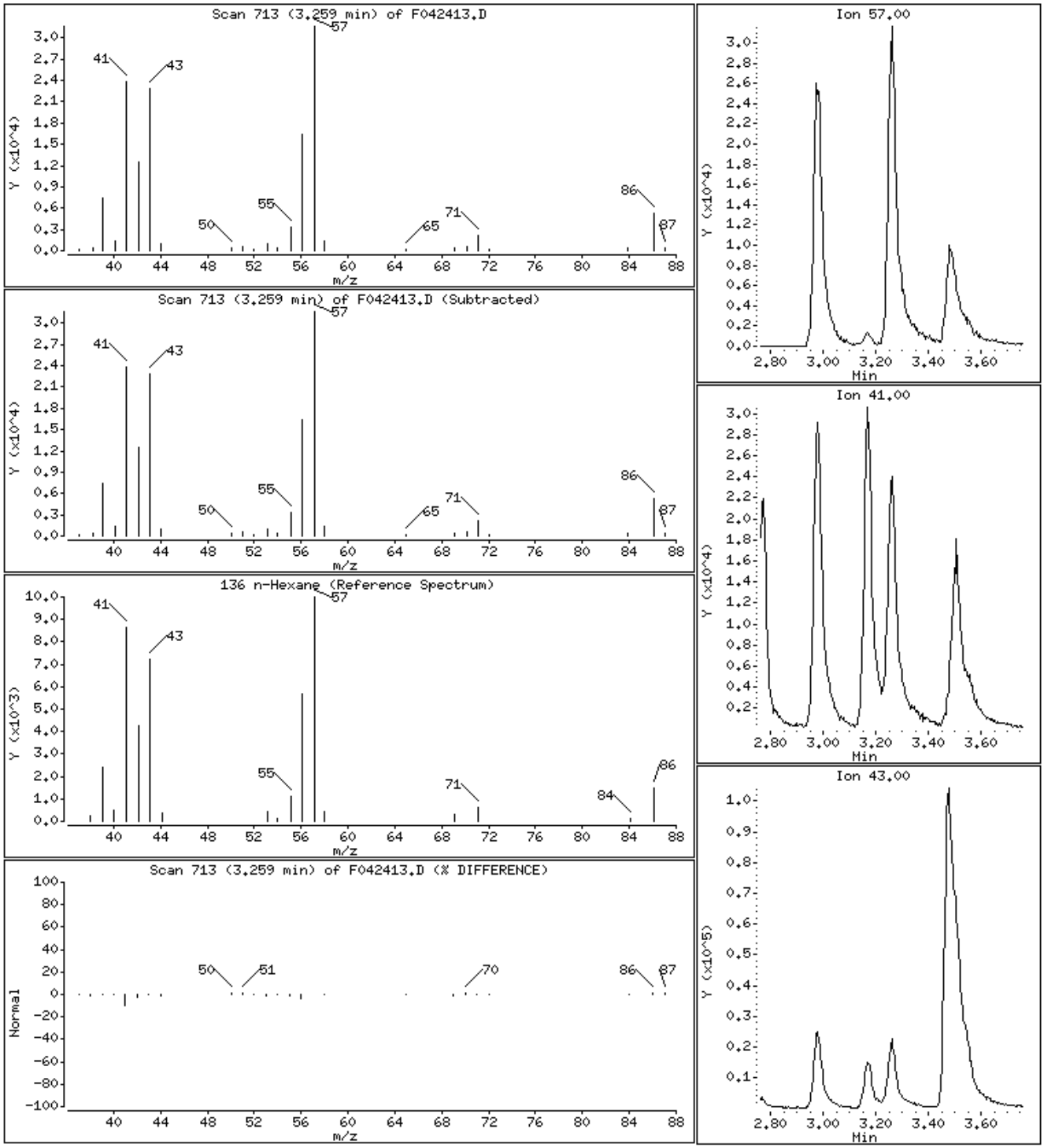
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

136 n-Hexane Concentration: 47.20 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 86

Date : 24-APR-2024 13:44

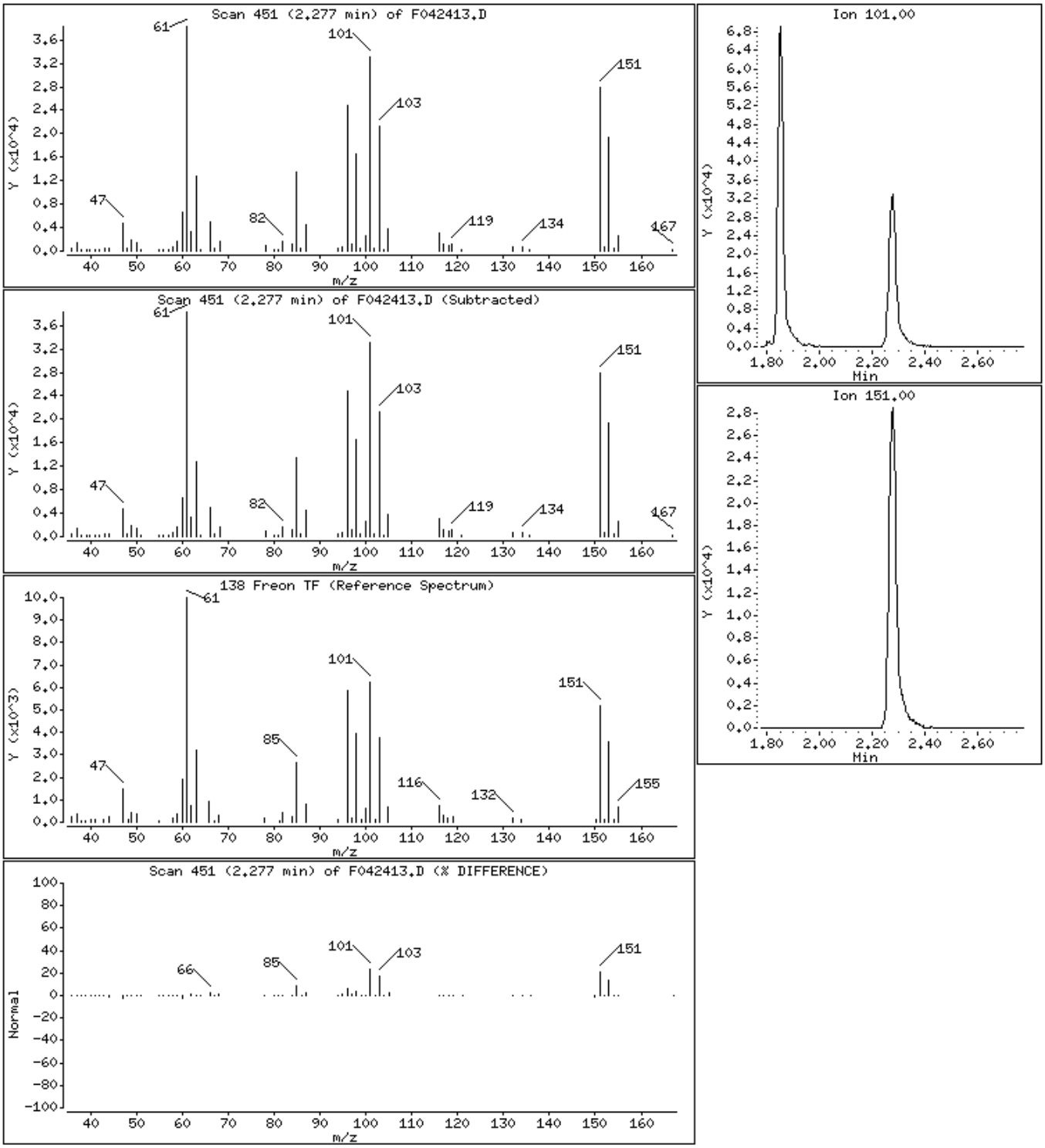
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

138 Freon TF Concentration: 47.93 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

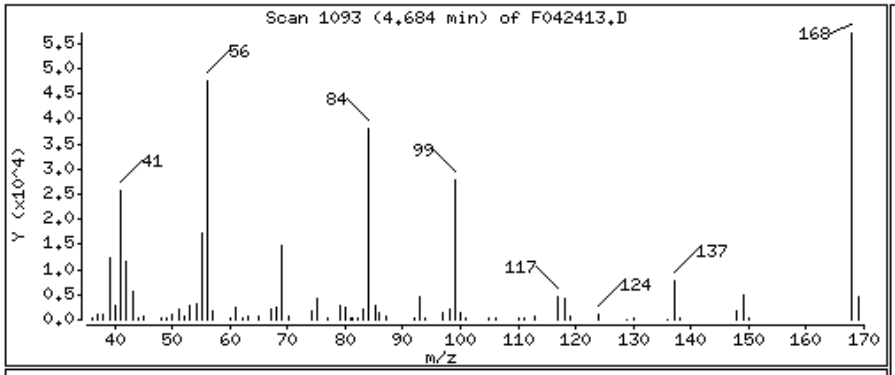
Operator: TS

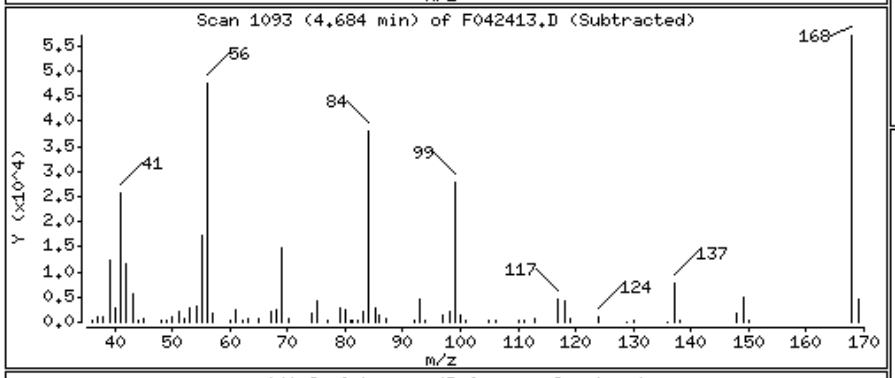
Column phase: DB624

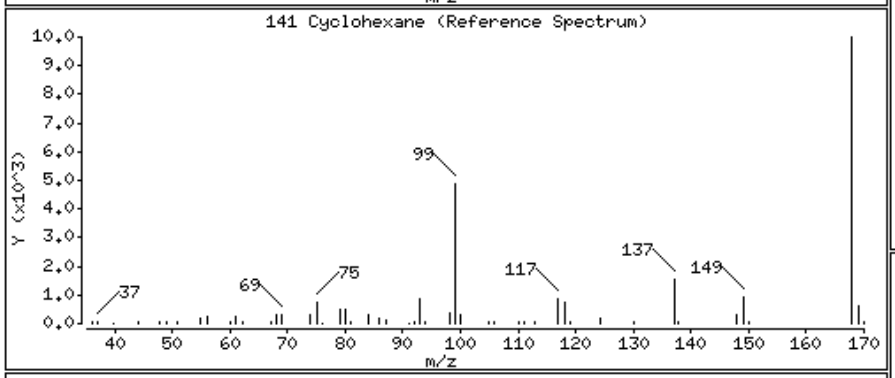
Column diameter: 0.18

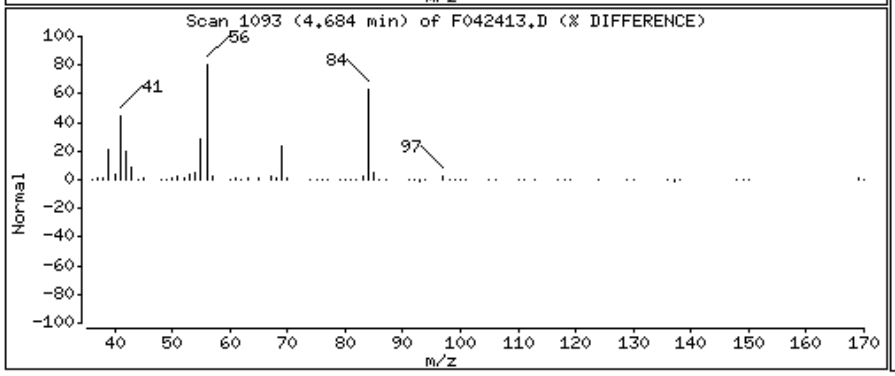
141 Cyclohexane

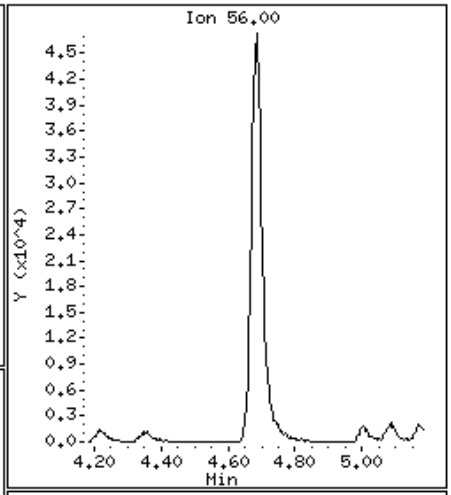
Concentration: 50.59 ug/l

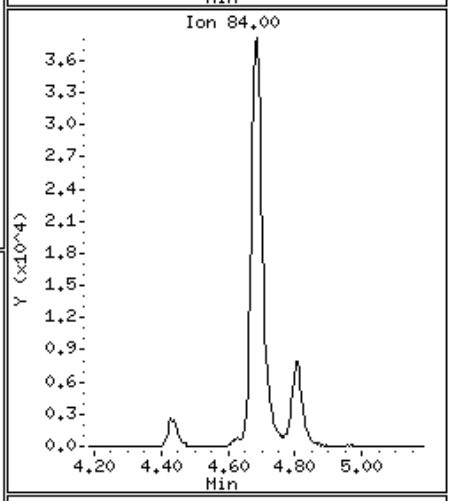


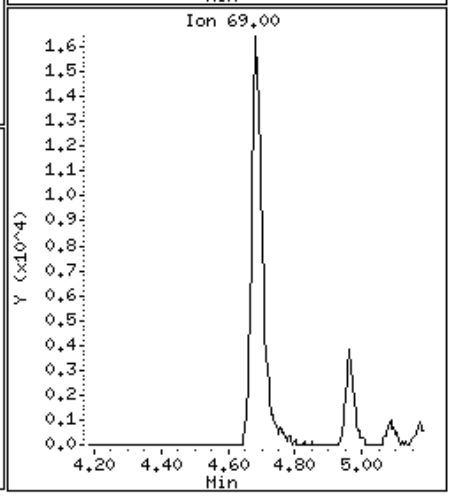












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 88

Date : 24-APR-2024 13:44

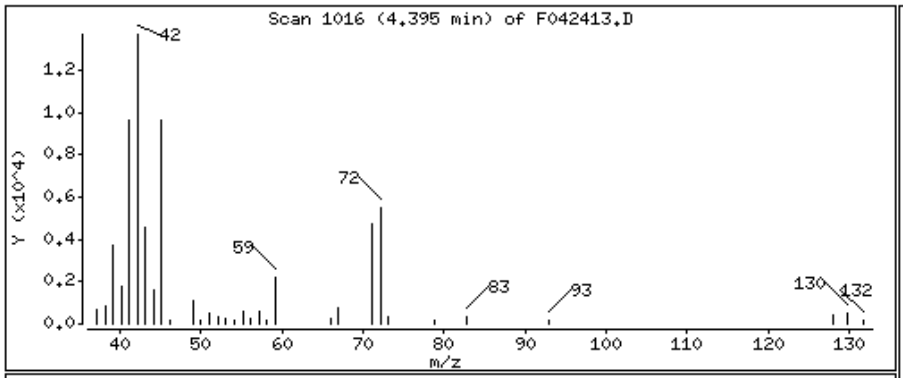
Client ID: VSTD050 Instrument: voa10.i

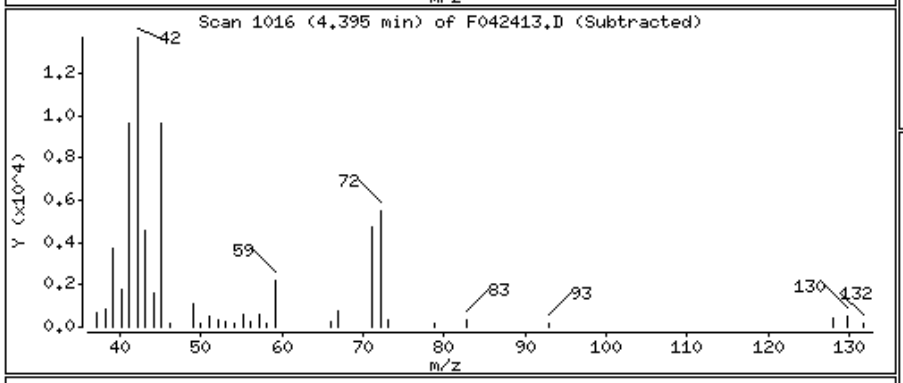
Sample Info: VSTD050;VSTD050;2;;ICV

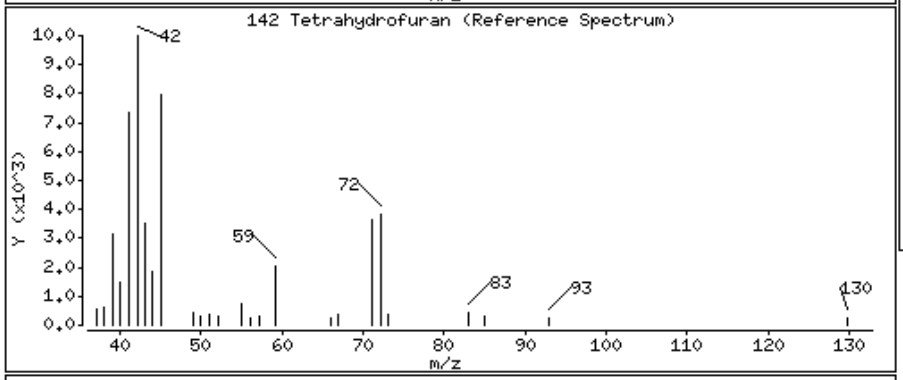
Purge Volume: 5.0 Operator: TS

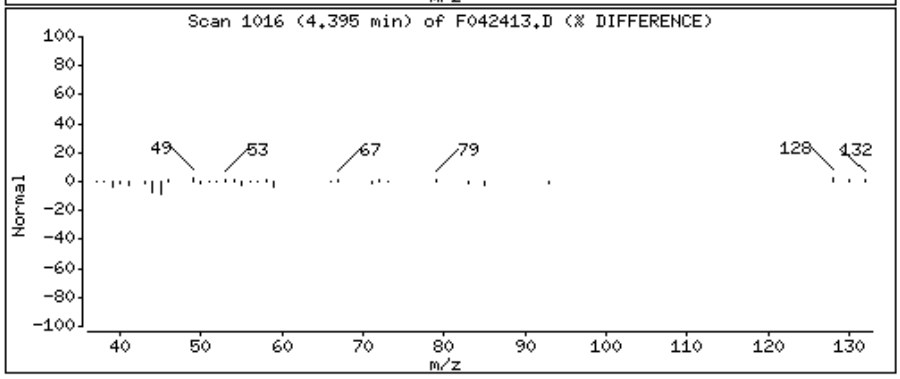
Column phase: DB624 Column diameter: 0.18

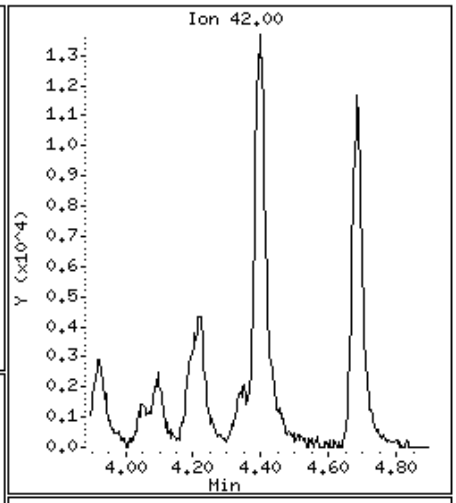
142 Tetrahydrofuran Concentration: 111.31 ug/l

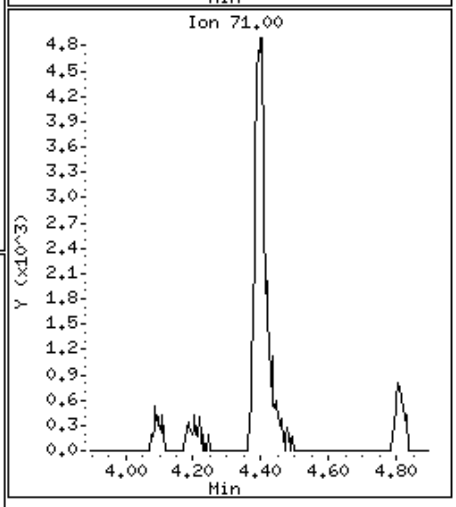












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 89

Date : 24-APR-2024 13:44

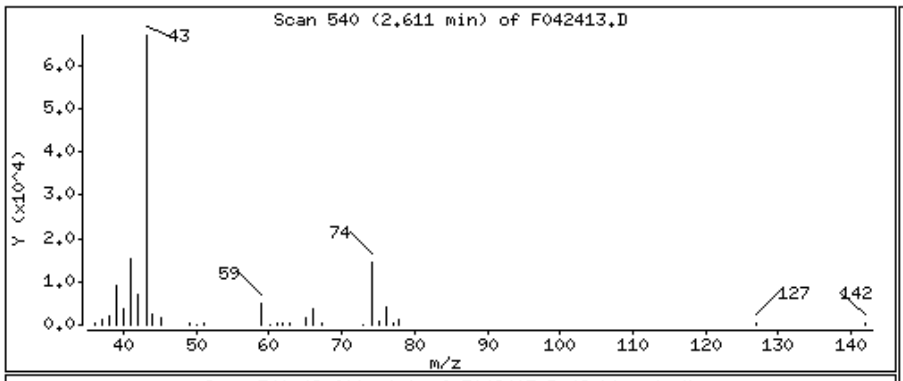
Client ID: VSTD050 Instrument: voa10.i

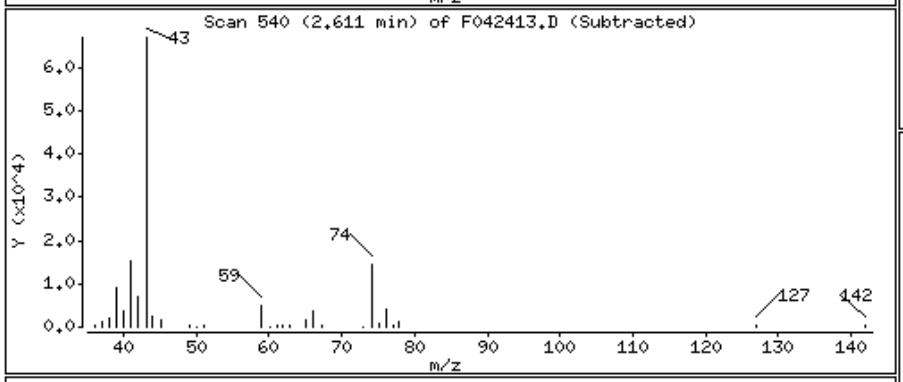
Sample Info: VSTD050;VSTD050;2;;ICV

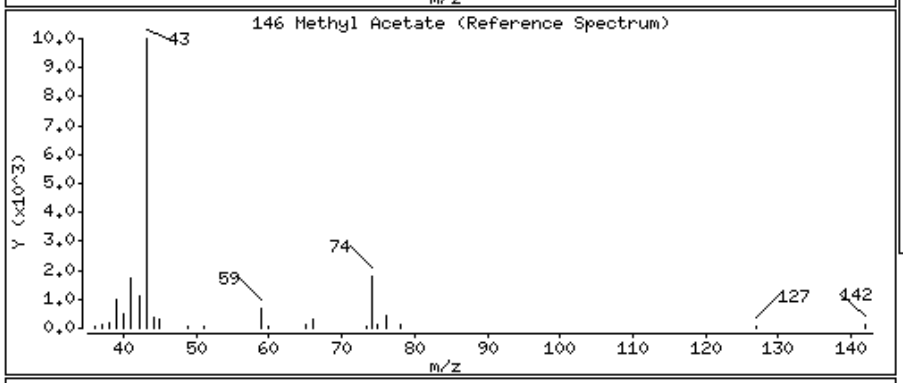
Purge Volume: 5.0 Operator: TS

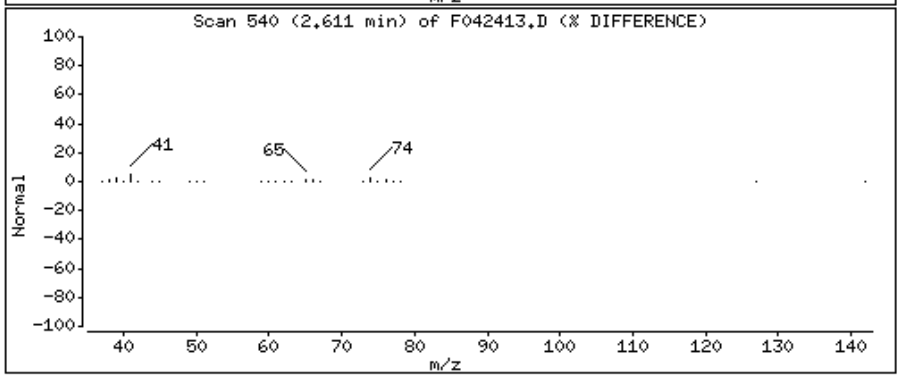
Column phase: DB624 Column diameter: 0.18

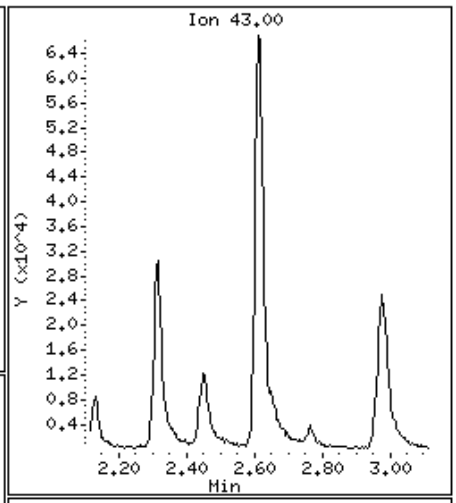
146 Methyl Acetate Concentration: 53.94 ug/l

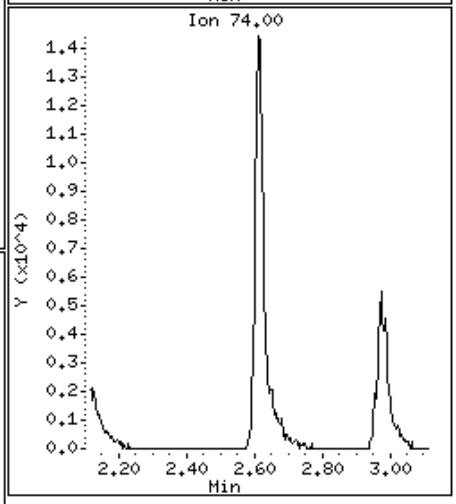












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 90

Date : 24-APR-2024 13:44

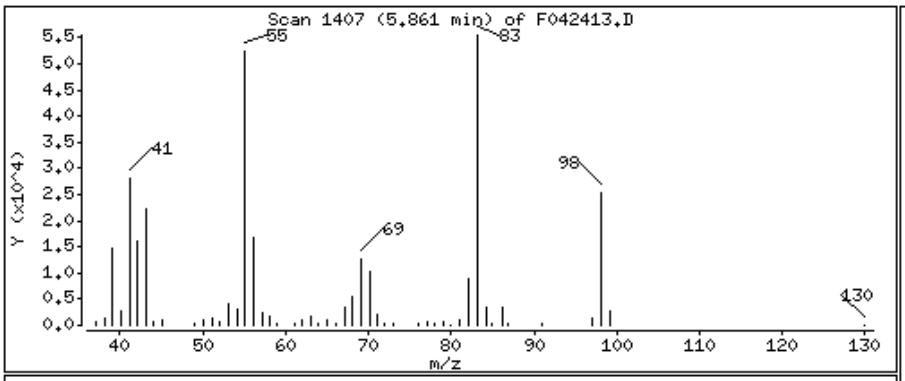
Client ID: VSTD050 Instrument: voa10.i

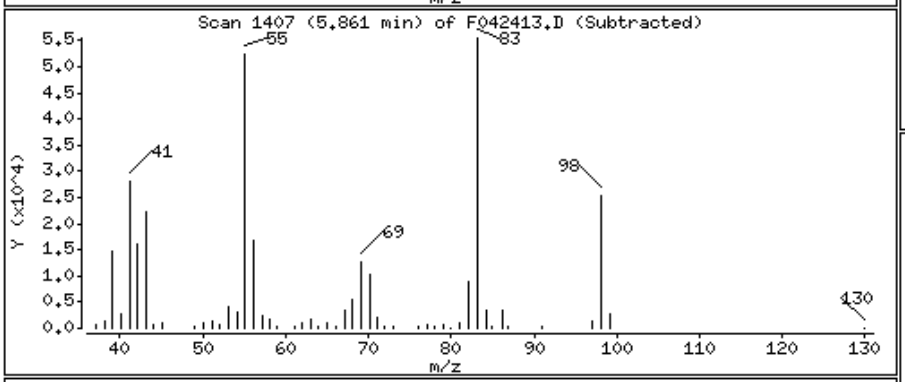
Sample Info: VSTD050;VSTD050;2;;ICV

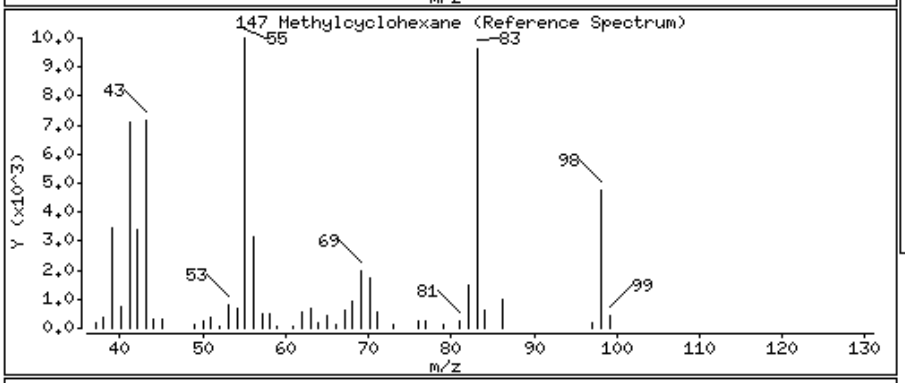
Purge Volume: 5.0 Operator: TS

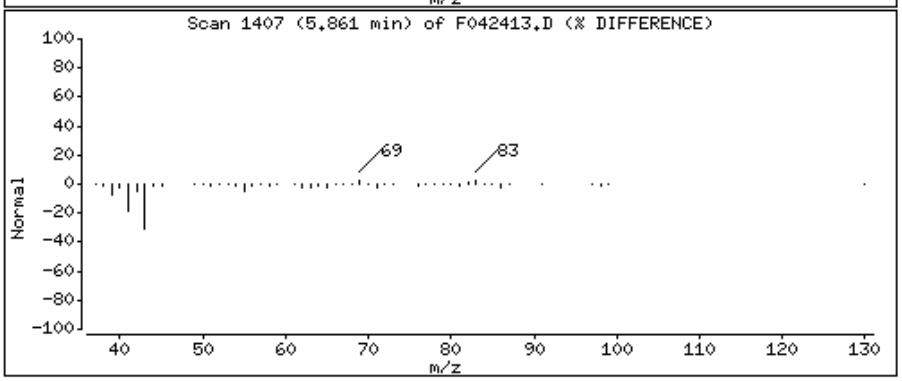
Column phase: DB624 Column diameter: 0.18

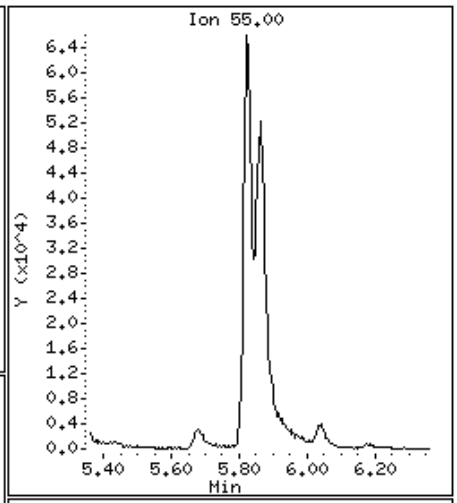
147 Methylcyclohexane Concentration: 51.77 ug/l

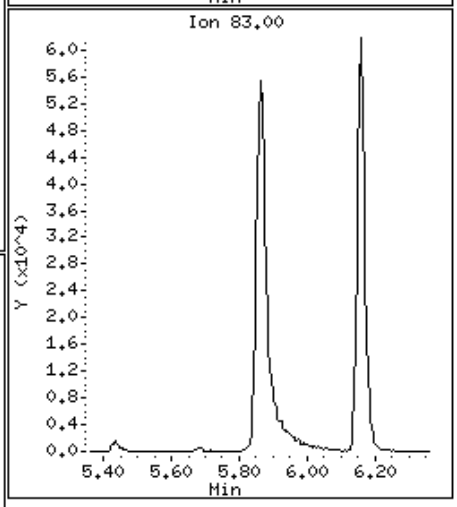












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 91

Date : 24-APR-2024 13:44

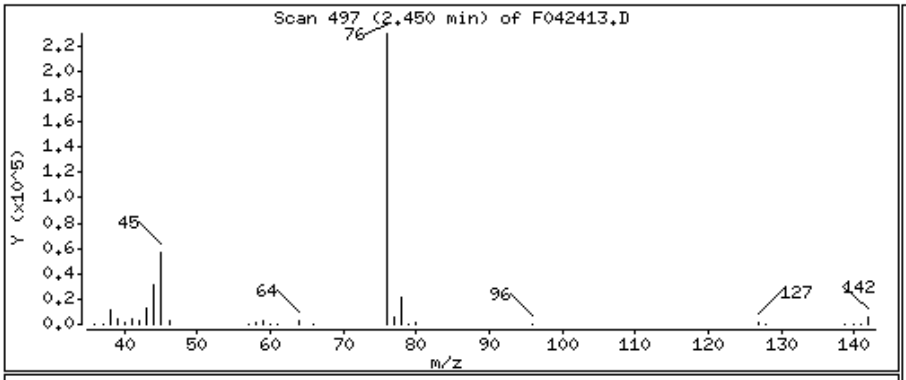
Client ID: VSTD050 Instrument: voa10.i

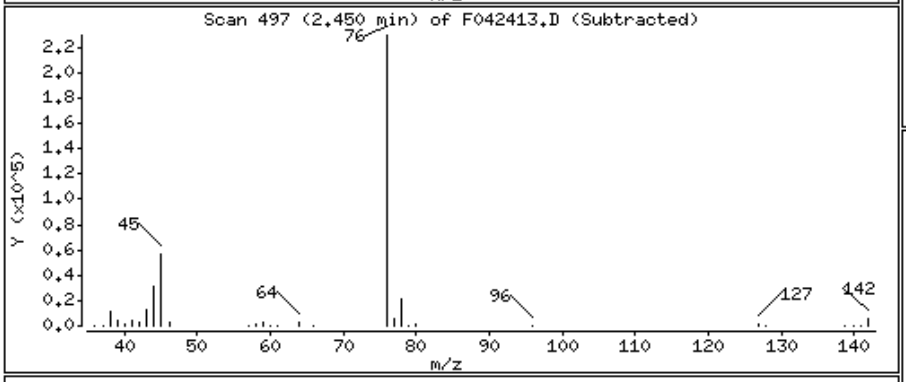
Sample Info: VSTD050;VSTD050;2;;ICV

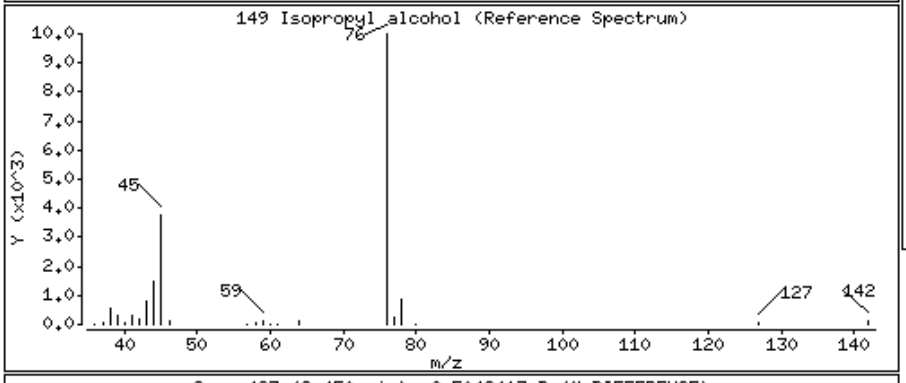
Purge Volume: 5.0 Operator: TS

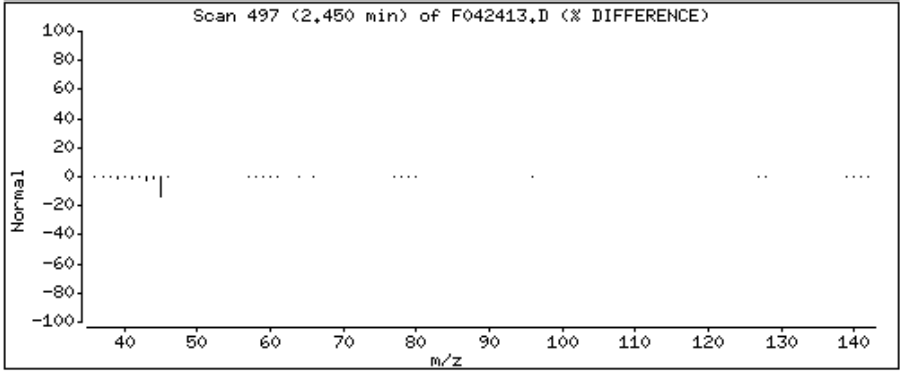
Column phase: DB624 Column diameter: 0.18

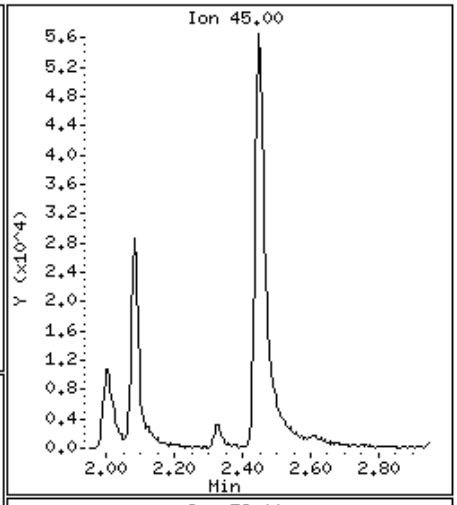
149 Isopropyl alcohol Concentration: 1166.34 ug/l

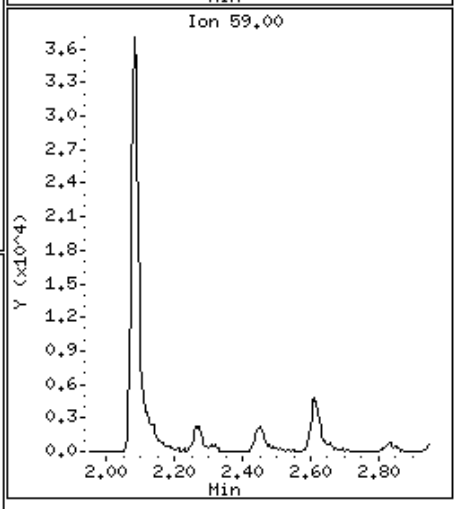












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

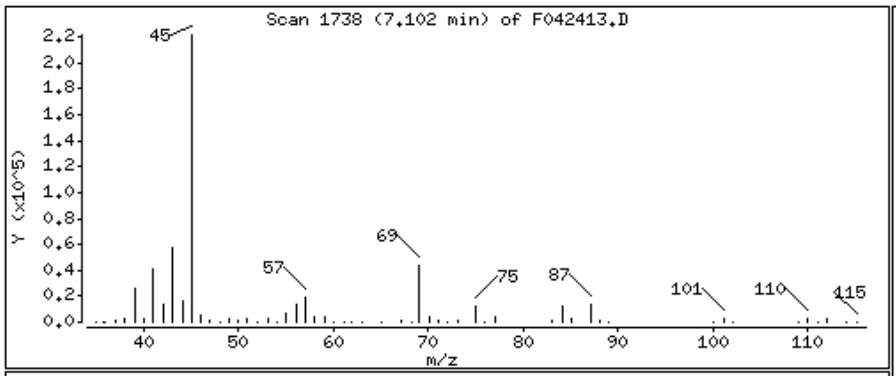
Operator: TS

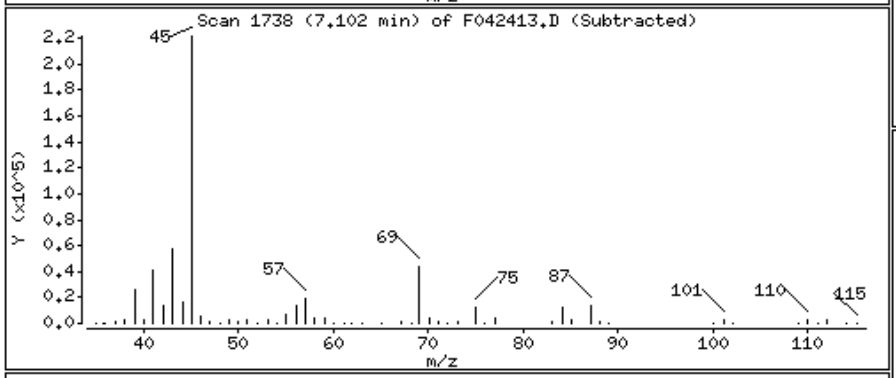
Column phase: DB624

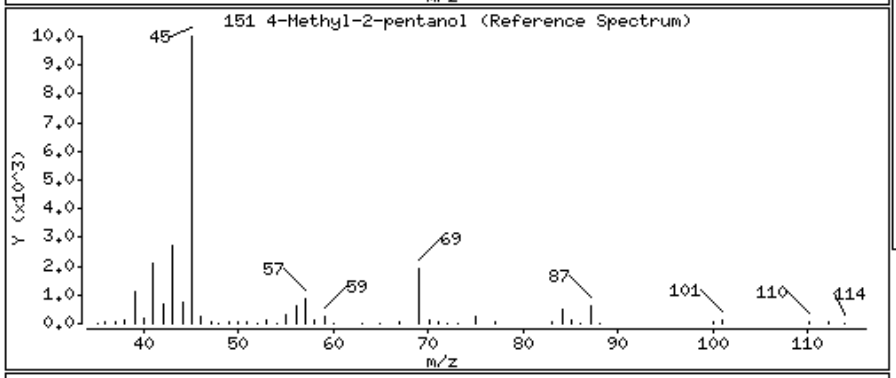
Column diameter: 0.18

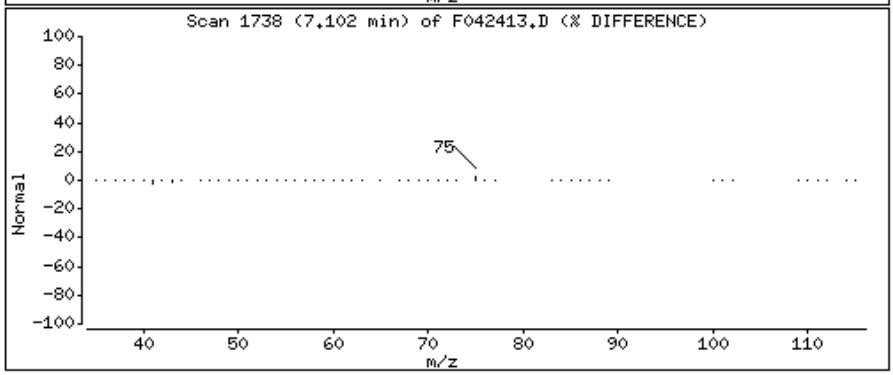
151 4-Methyl-2-pentanol

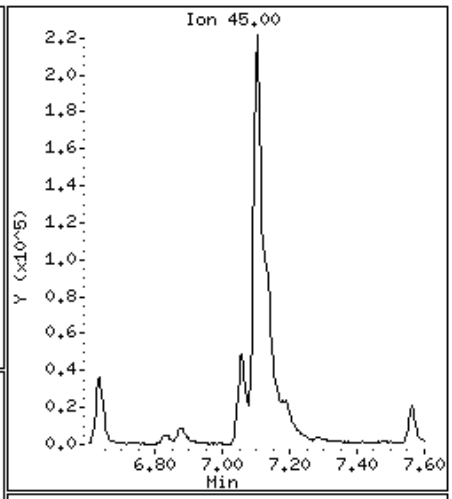
Concentration: 925.37 ug/l

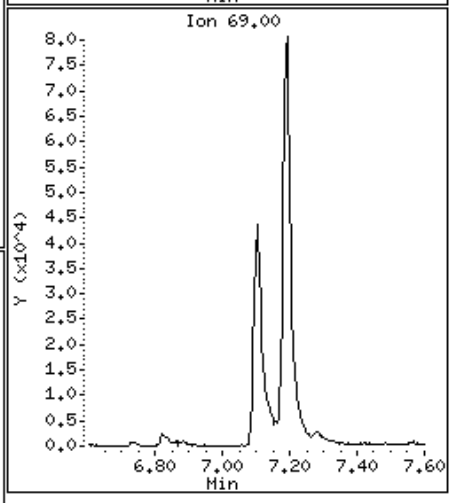












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

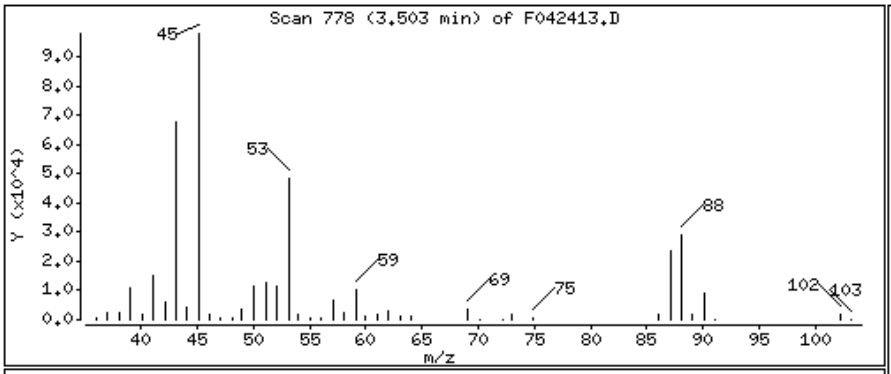
Operator: TS

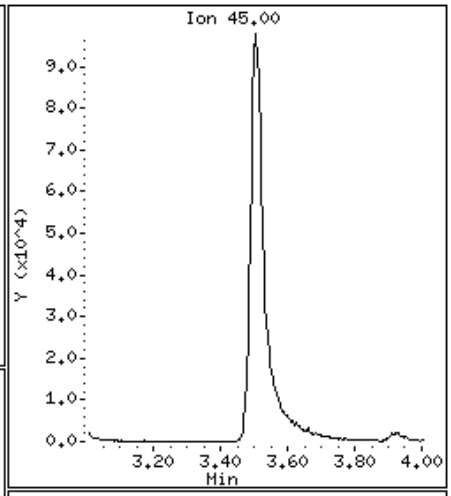
Column phase: DB624

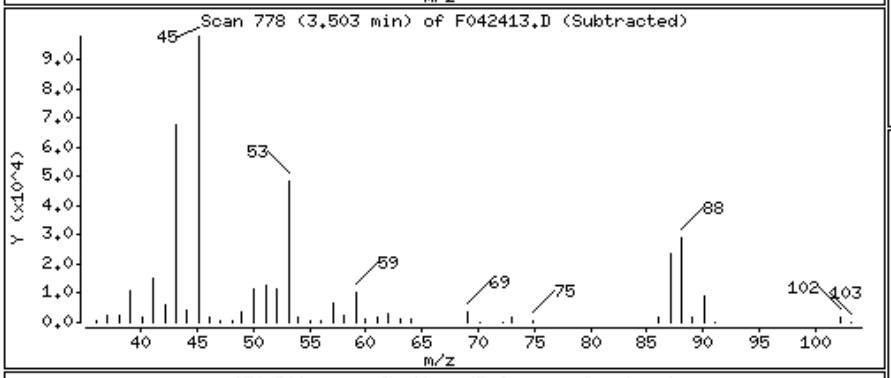
Column diameter: 0.18

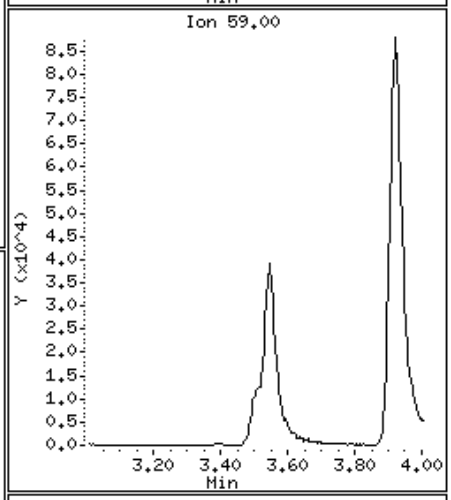
156 Diisopropyl ether

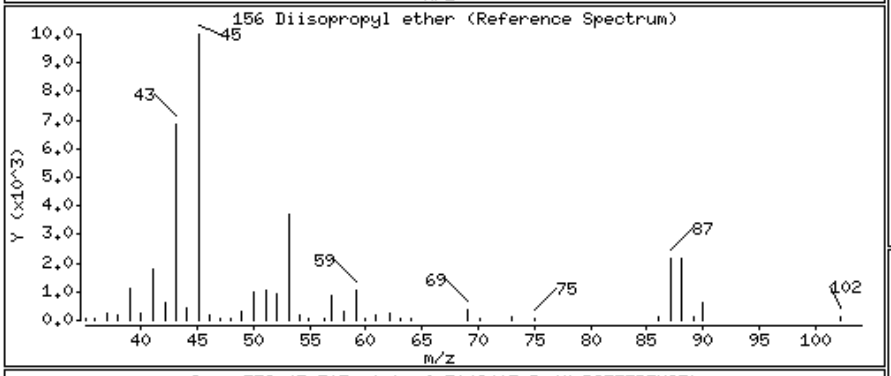
Concentration: 54.64 ug/l

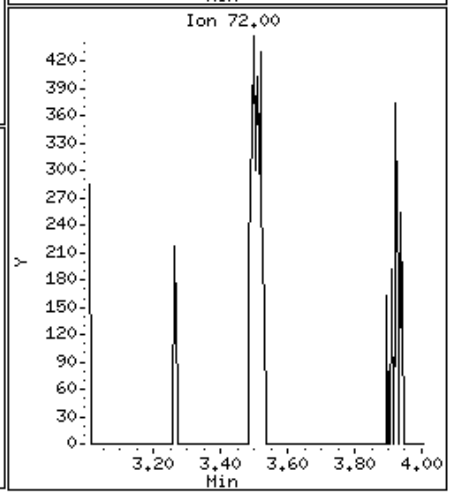


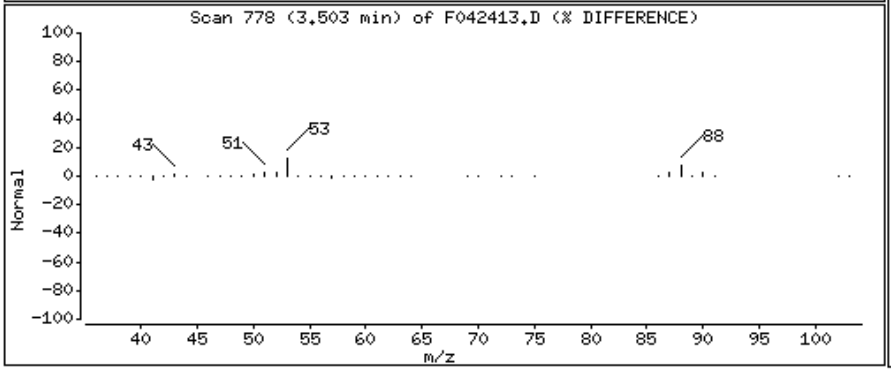












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

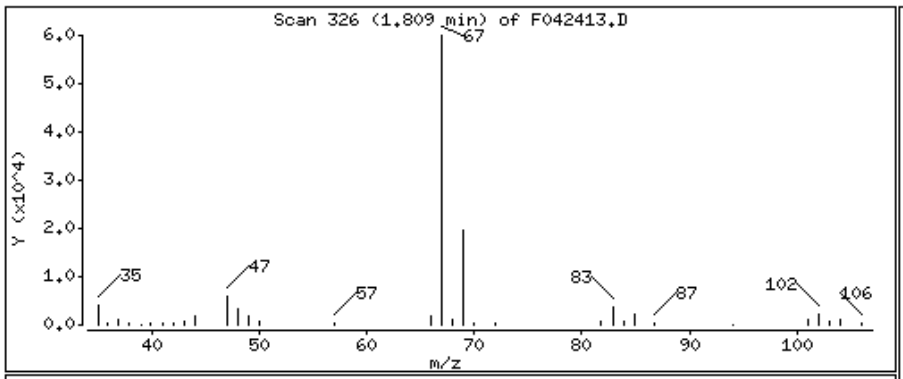
Operator: TS

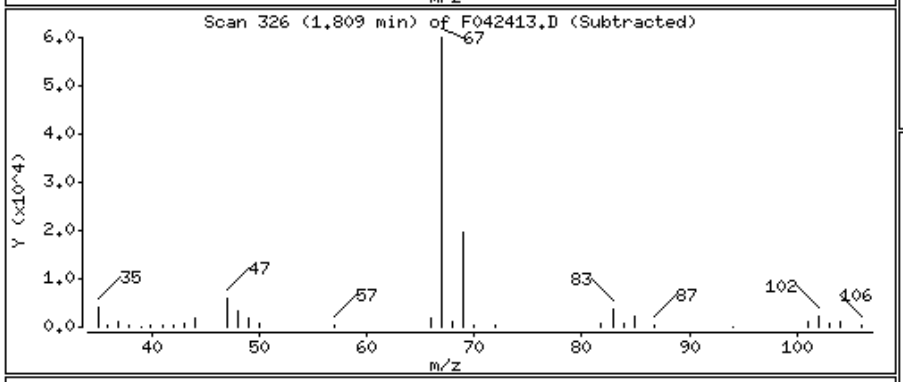
Column phase: DB624

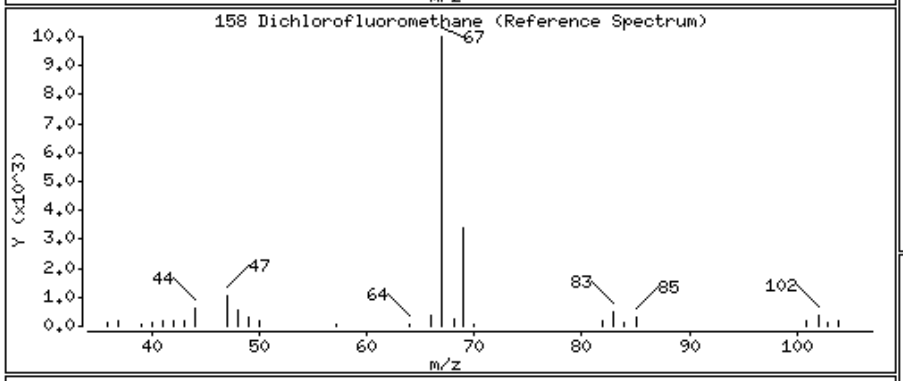
Column diameter: 0.18

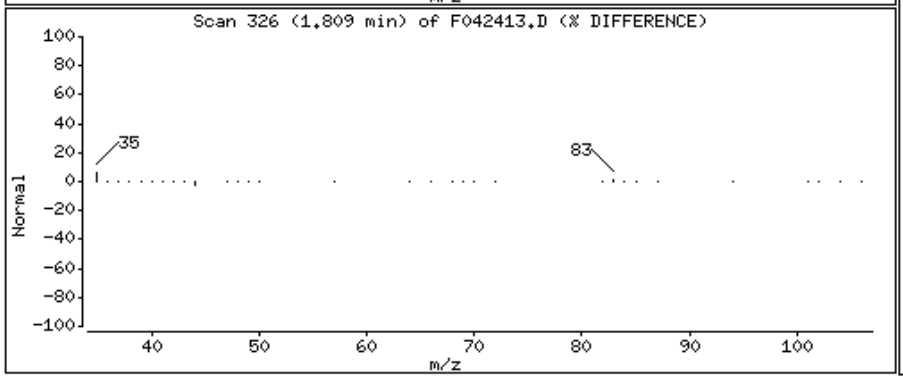
158 Dichlorofluoromethane

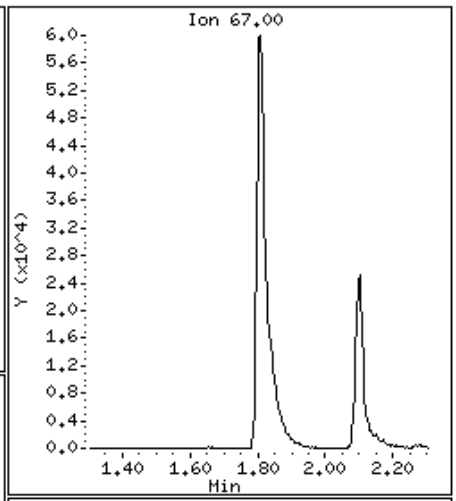
Concentration: 54.24 ug/l

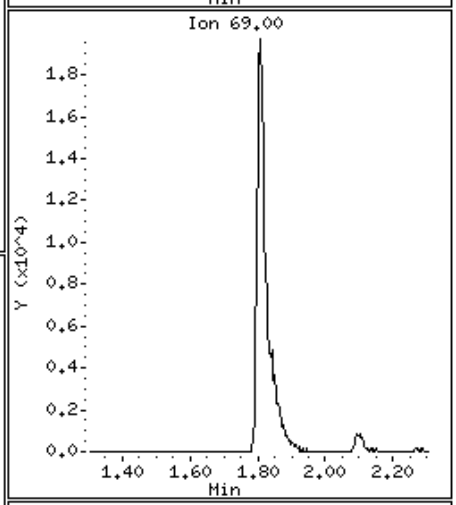


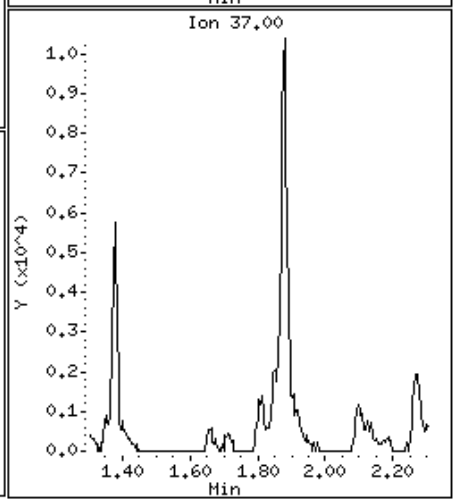












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 95

Date : 24-APR-2024 13:44

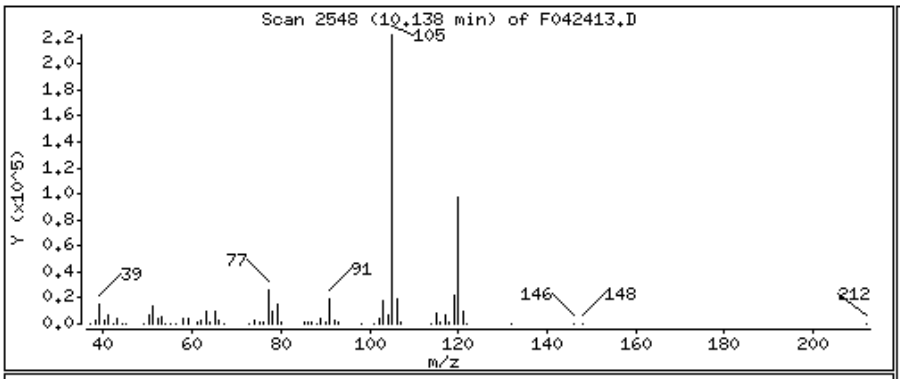
Client ID: VSTD050 Instrument: voa10.i

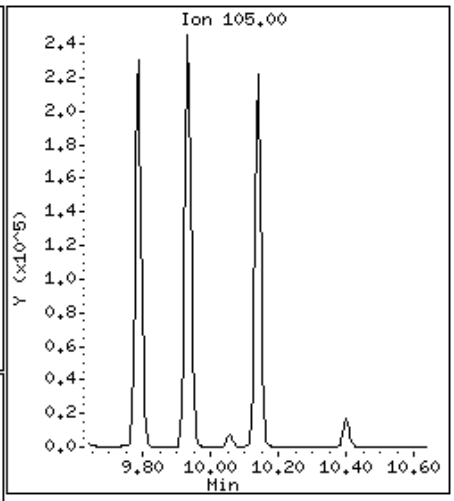
Sample Info: VSTD050;VSTD050;2;;ICV

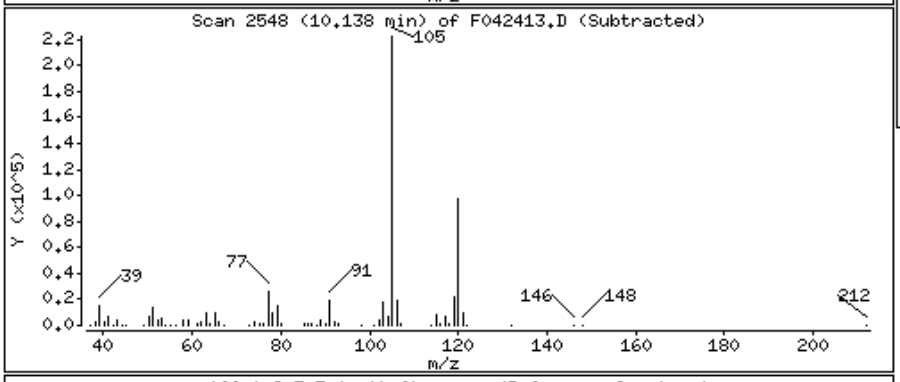
Purge Volume: 5.0 Operator: TS

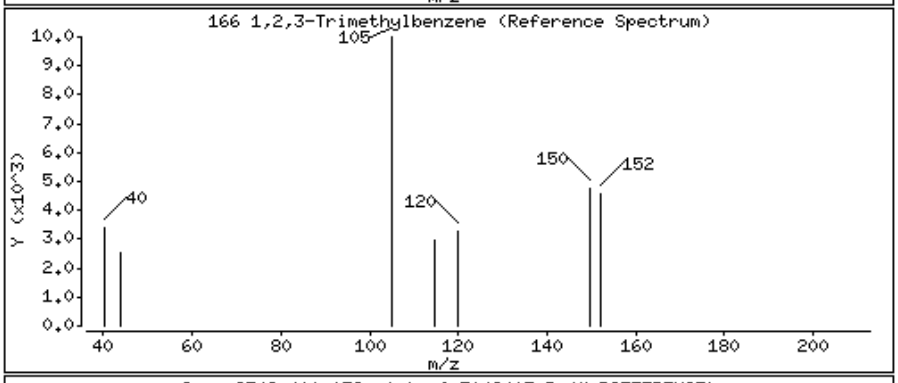
Column phase: DB624 Column diameter: 0.18

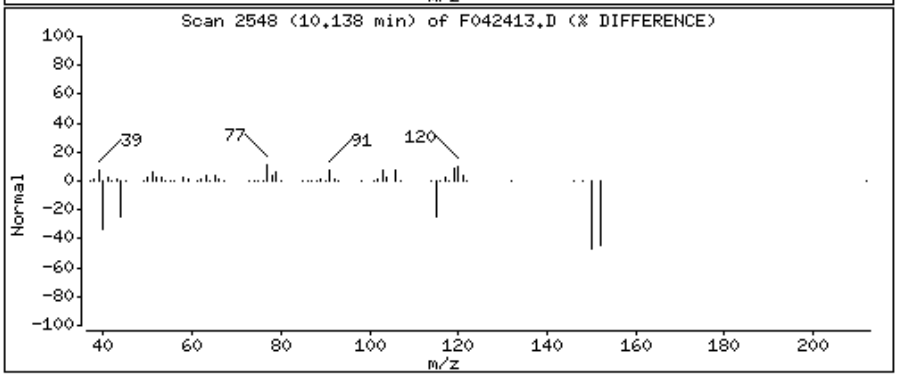
166 1,2,3-Trimethylbenzene Concentration: 54.31 ug/l











Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 96

Date : 24-APR-2024 13:44

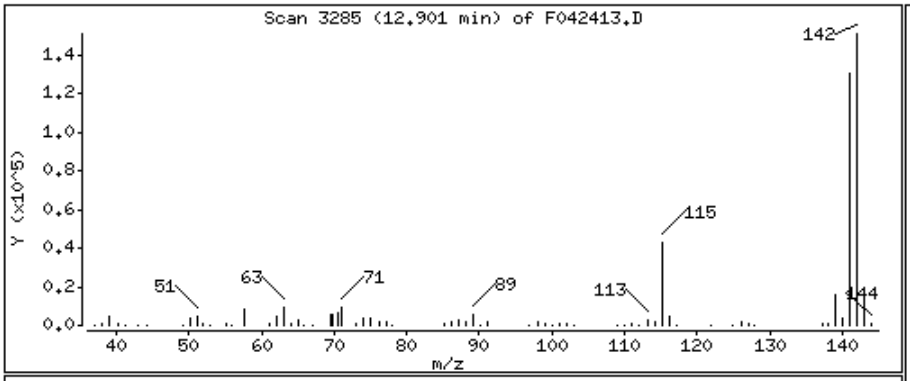
Client ID: VSTD050 Instrument: voa10.i

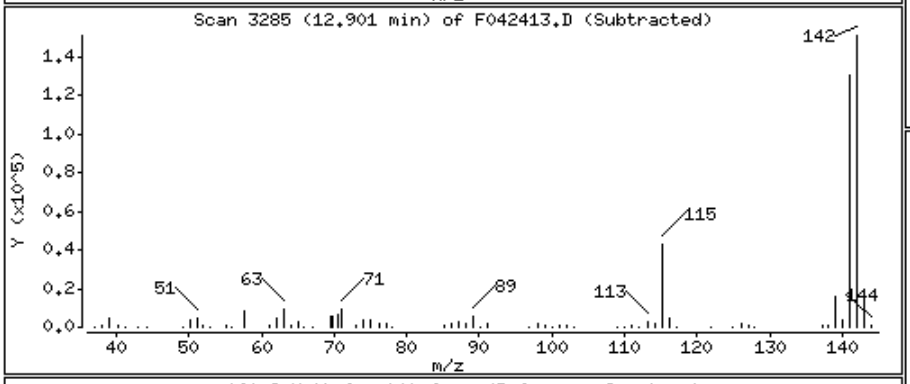
Sample Info: VSTD050;VSTD050;2;;ICV

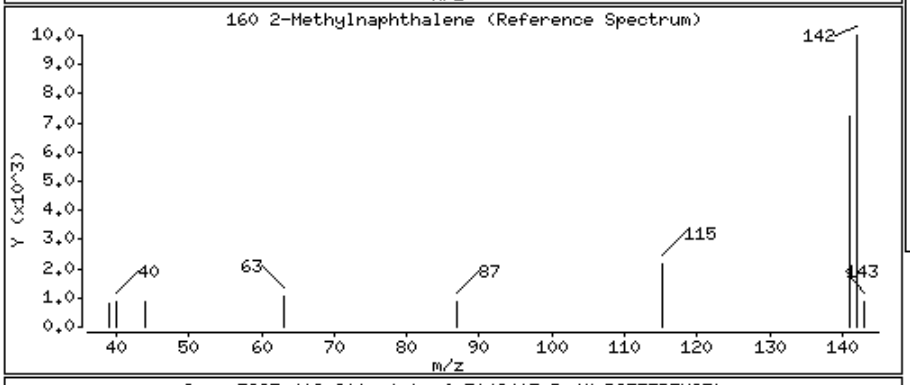
Purge Volume: 5.0 Operator: TS

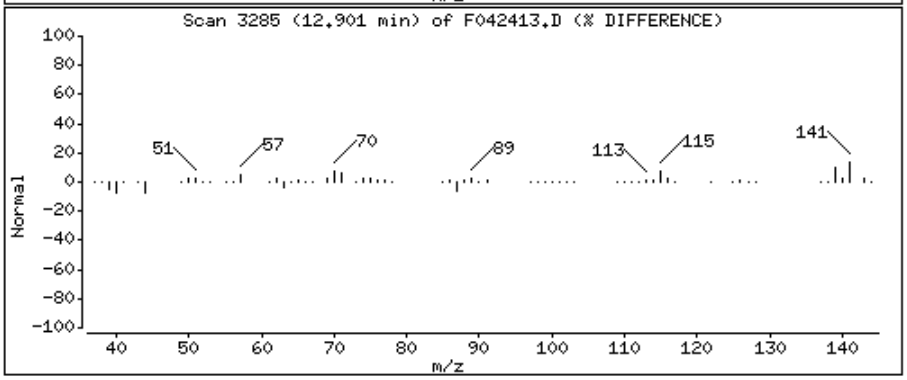
Column phase: DB624 Column diameter: 0.18

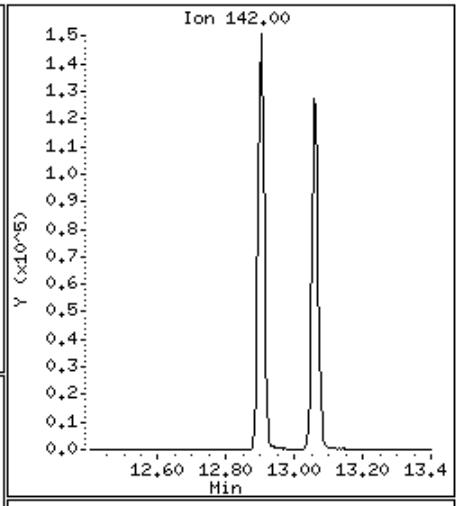
160 2-Methylnaphthalene Concentration: 50.55 ug/l

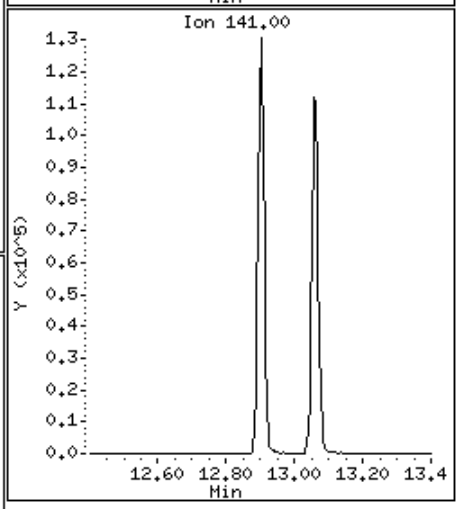












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 97

Date : 24-APR-2024 13:44

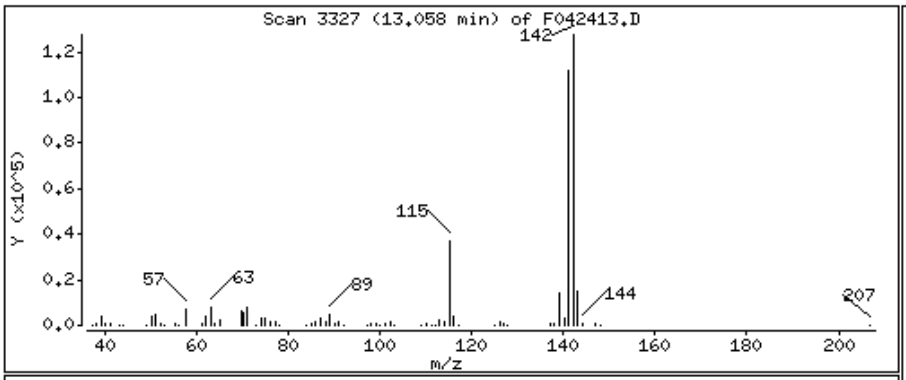
Client ID: VSTD050 Instrument: voa10.i

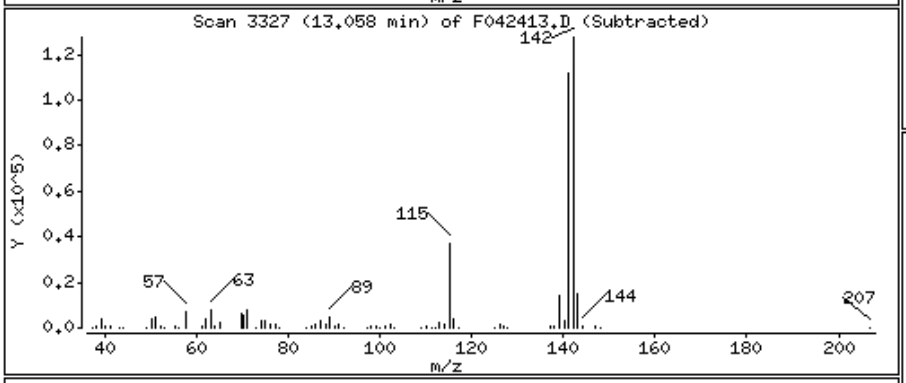
Sample Info: VSTD050;VSTD050;2;;ICV

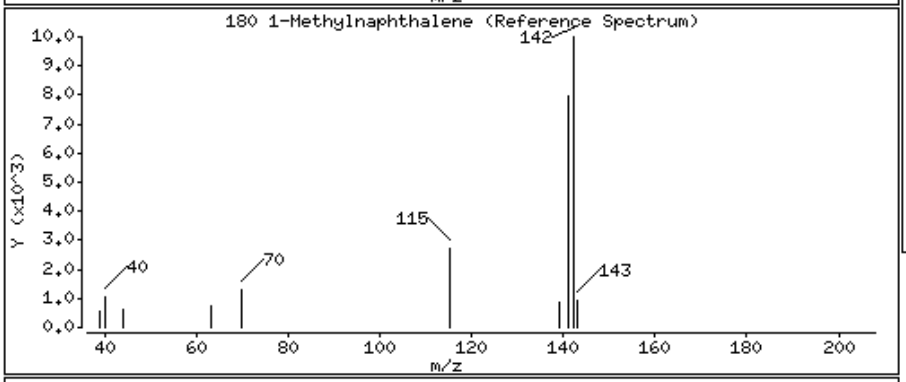
Purge Volume: 5.0 Operator: TS

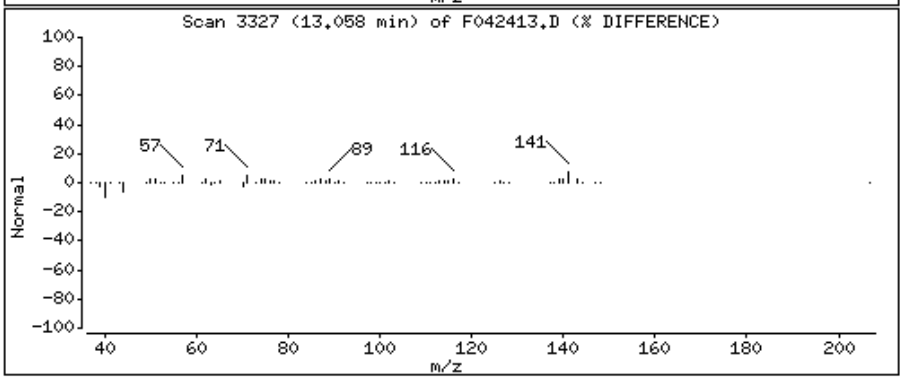
Column phase: DB624 Column diameter: 0.18

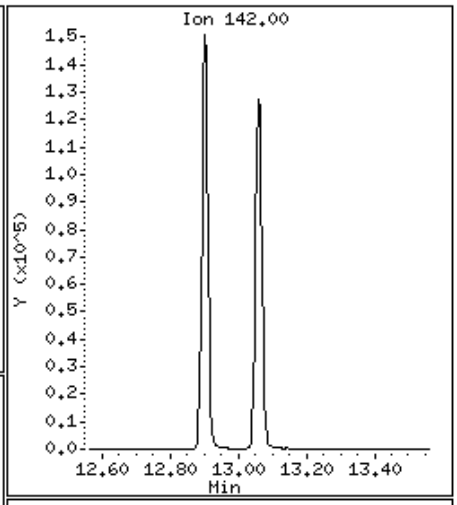
180 1-Methylnaphthalene Concentration: 52.57 ug/l

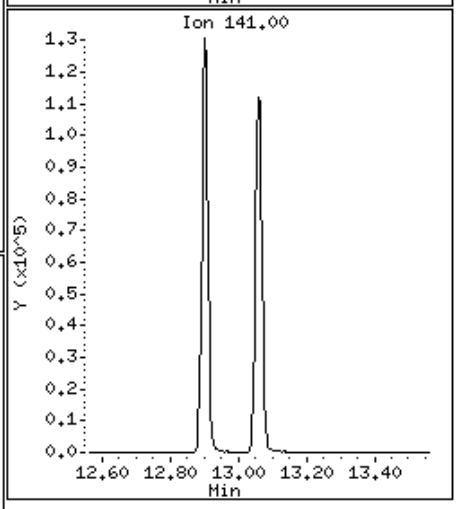












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 98

Date : 24-APR-2024 13:44

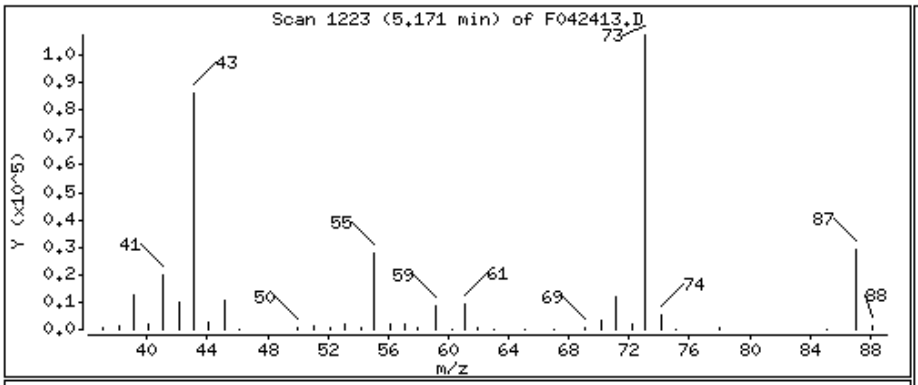
Client ID: VSTD050 Instrument: voa10.i

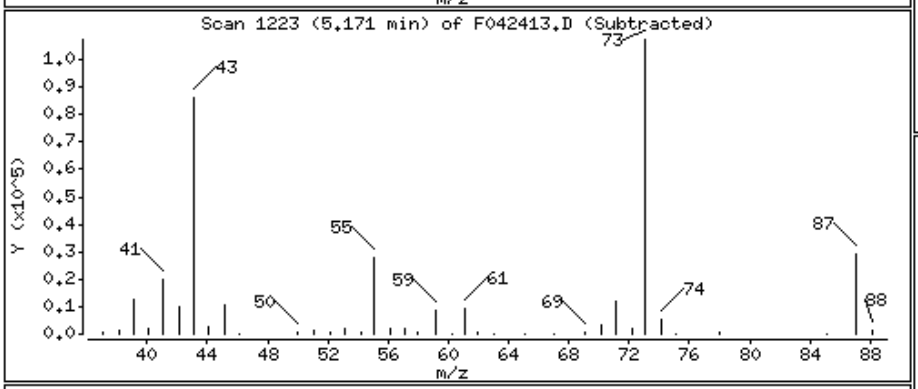
Sample Info: VSTD050;VSTD050;2;;ICV

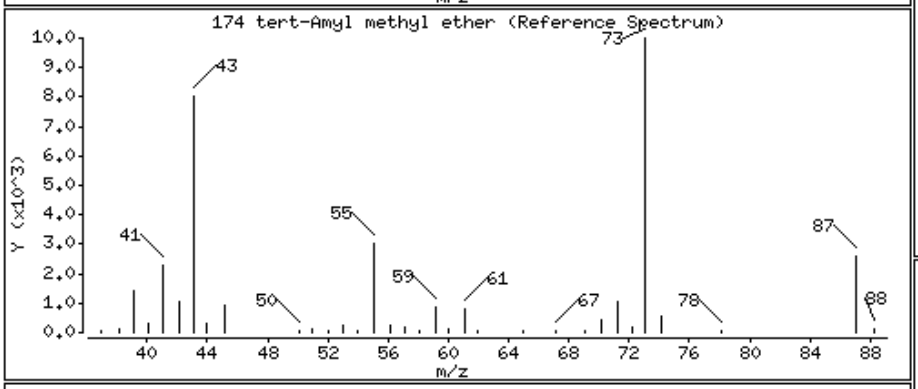
Purge Volume: 5.0 Operator: TS

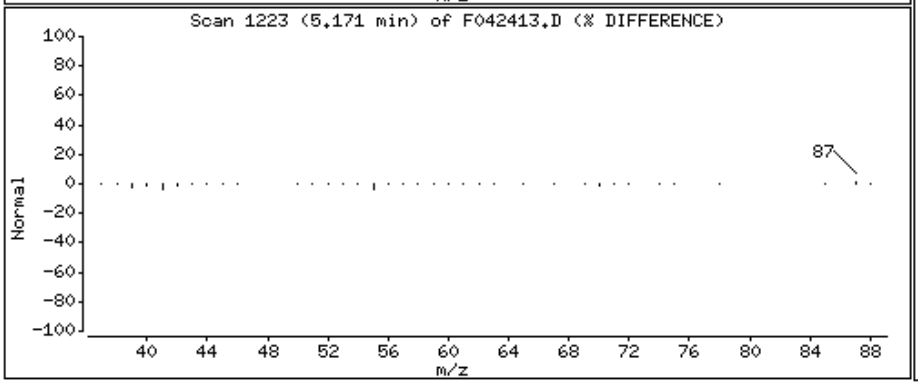
Column phase: DB624 Column diameter: 0.18

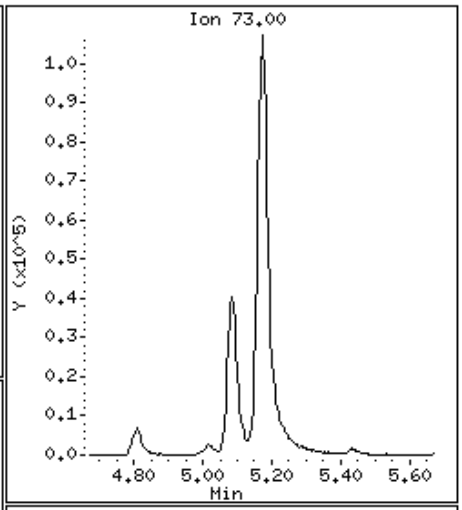
174 tert-Amyl methyl ether Concentration: 56.63 ug/l

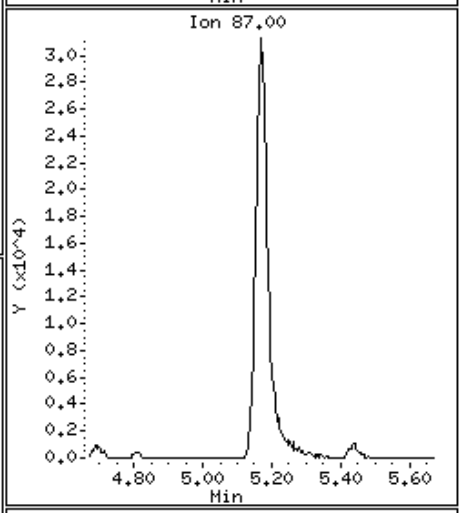


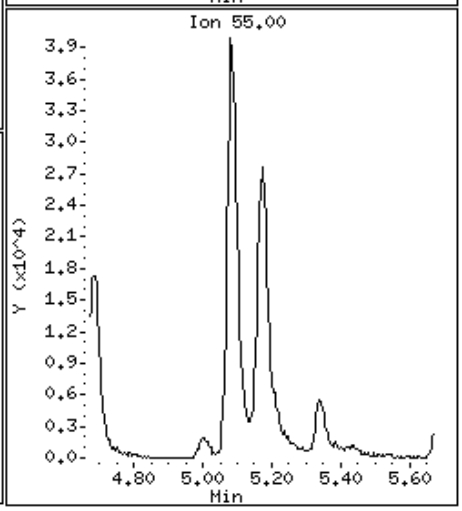












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 99

Date : 24-APR-2024 13:44

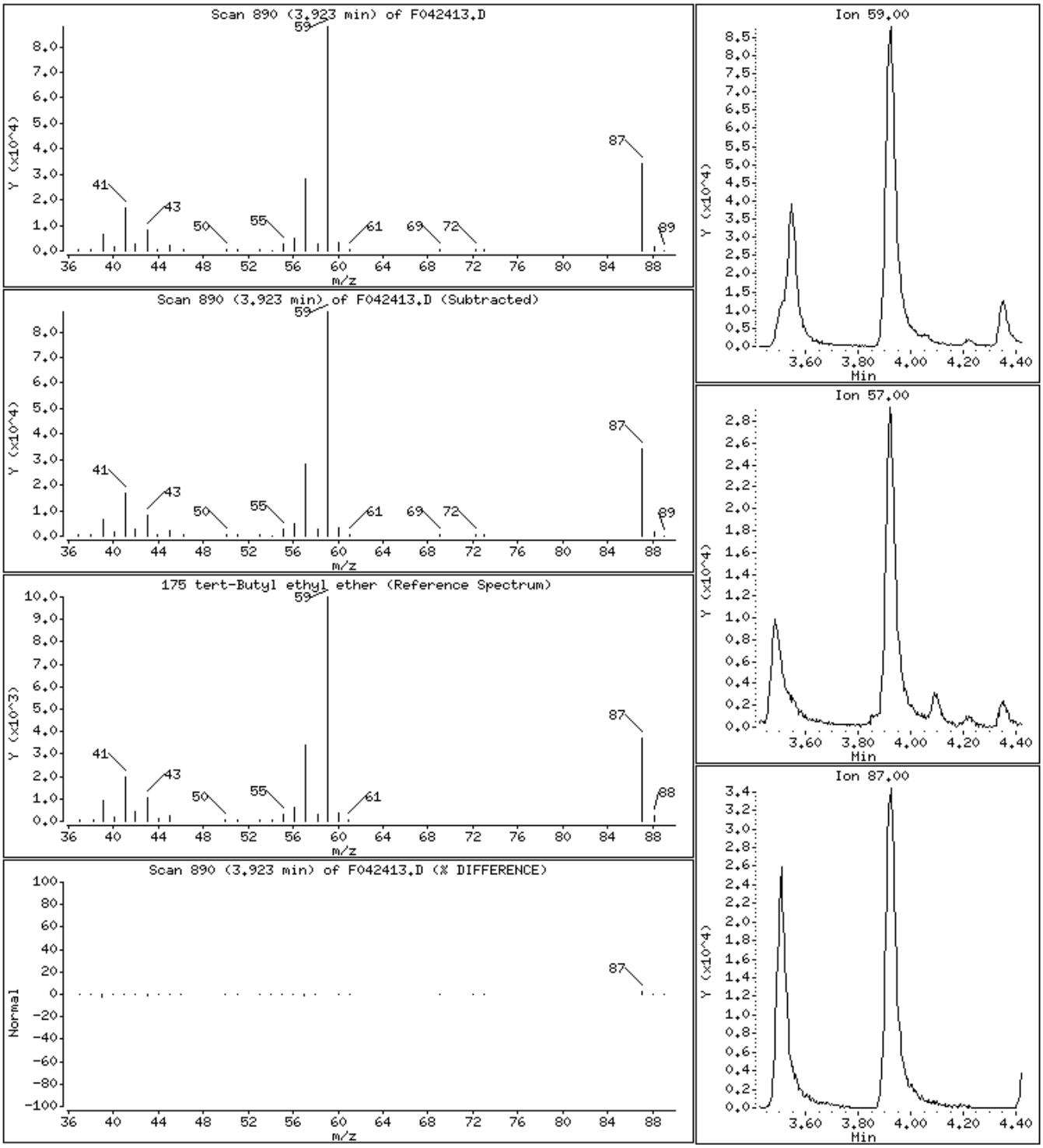
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

175 tert-Butyl ethyl ether Concentration: 54.67 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 100

Date : 24-APR-2024 13:44

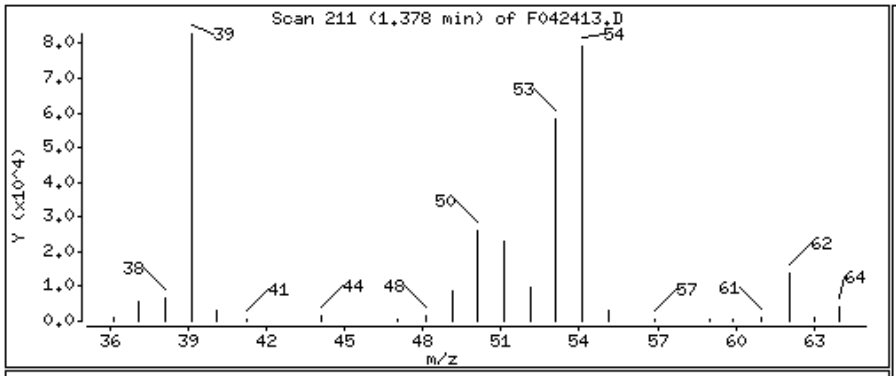
Client ID: VSTD050 Instrument: voa10.i

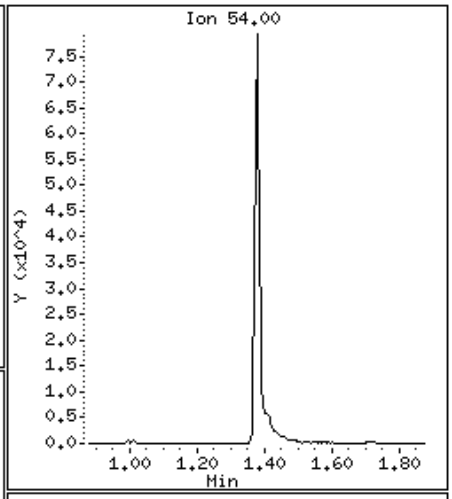
Sample Info: VSTD050;VSTD050;2;;ICV

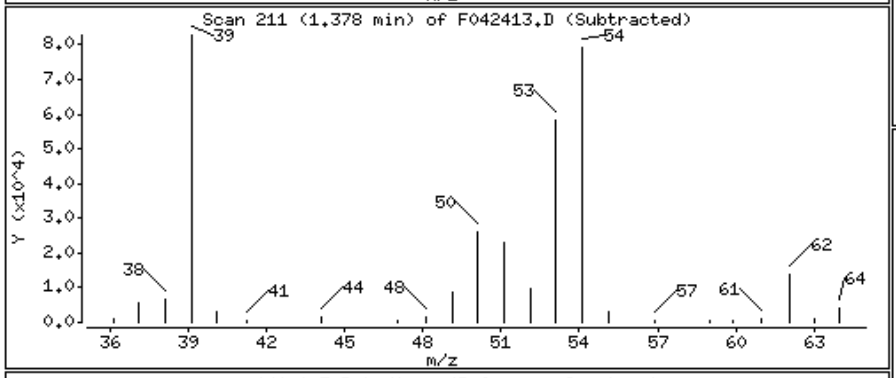
Purge Volume: 5.0 Operator: TS

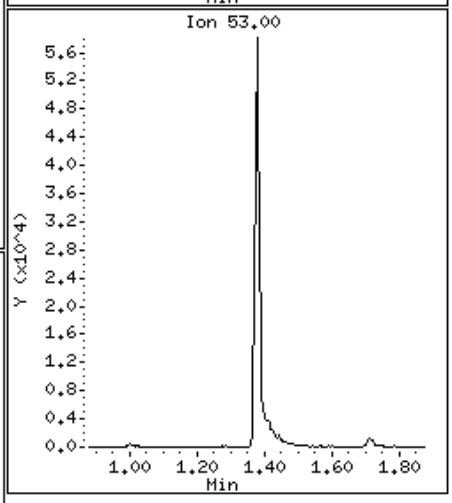
Column phase: DB624 Column diameter: 0.18

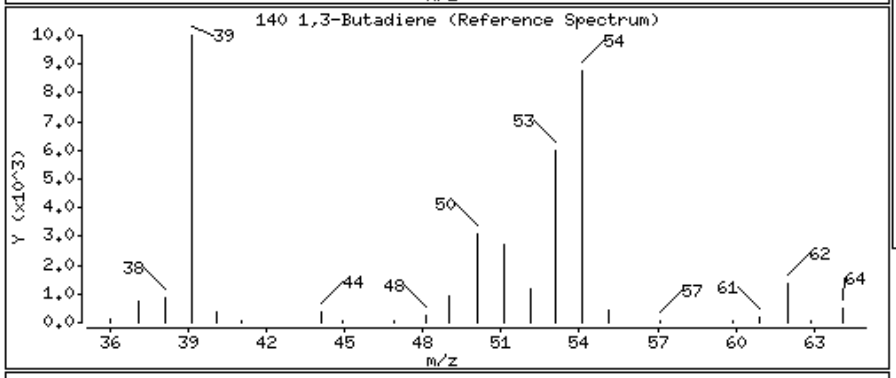
140 1,3-Butadiene Concentration: 52.81 ug/l

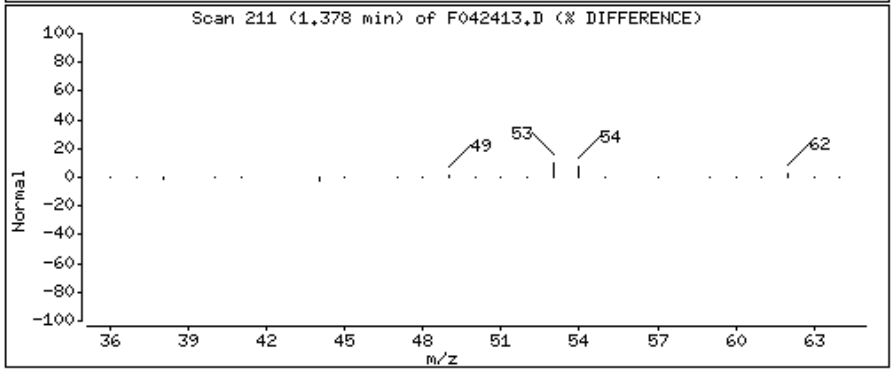












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 101

Date : 24-APR-2024 13:44

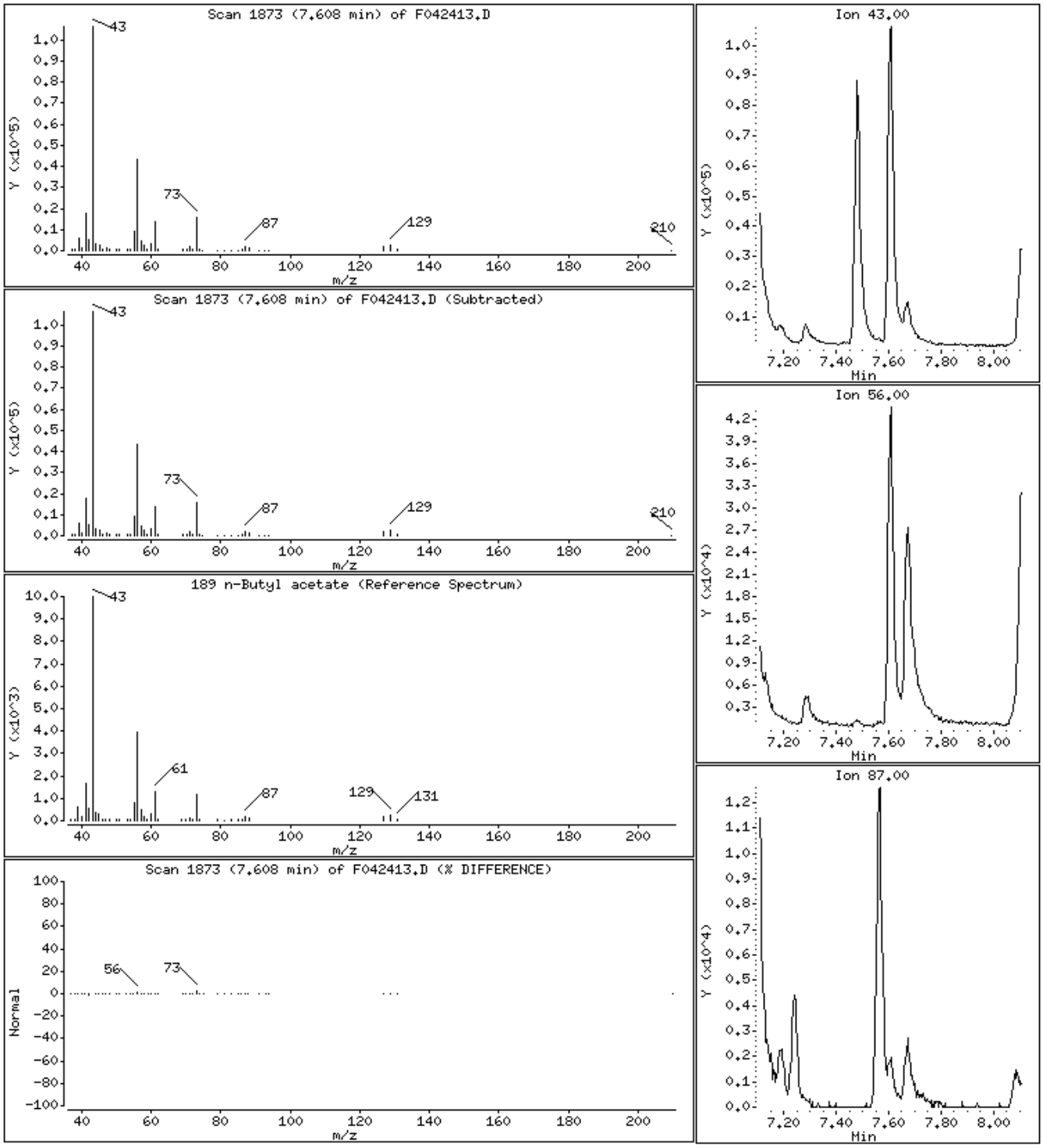
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

189 n-Butyl acetate Concentration: 57.66 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 102

Date : 24-APR-2024 13:44

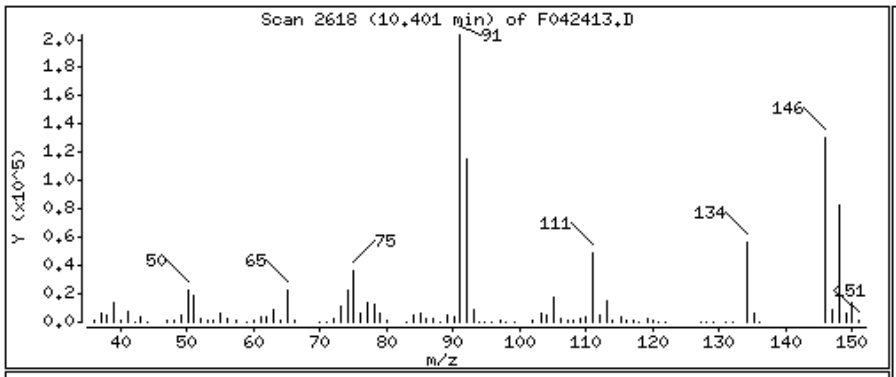
Client ID: VSTD050 Instrument: voa10.i

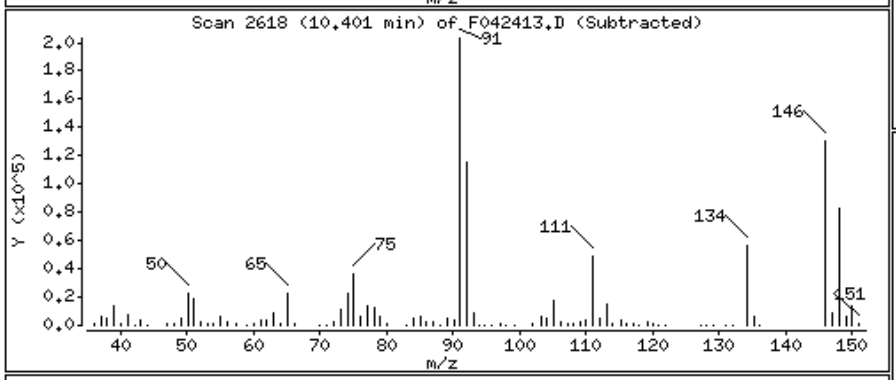
Sample Info: VSTD050;VSTD050;2;;ICV

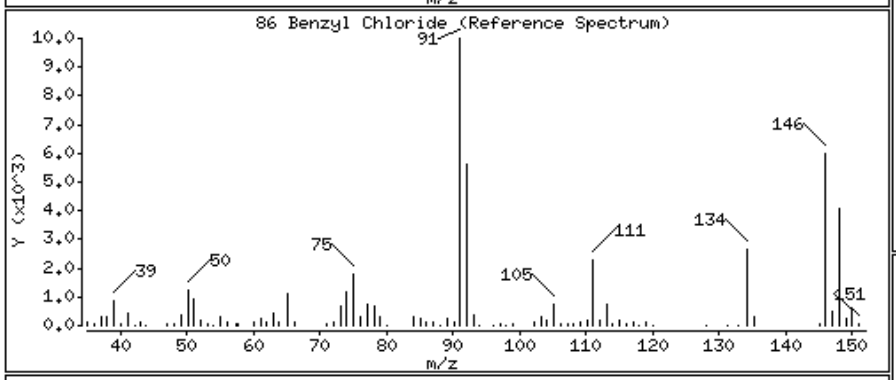
Purge Volume: 5.0 Operator: TS

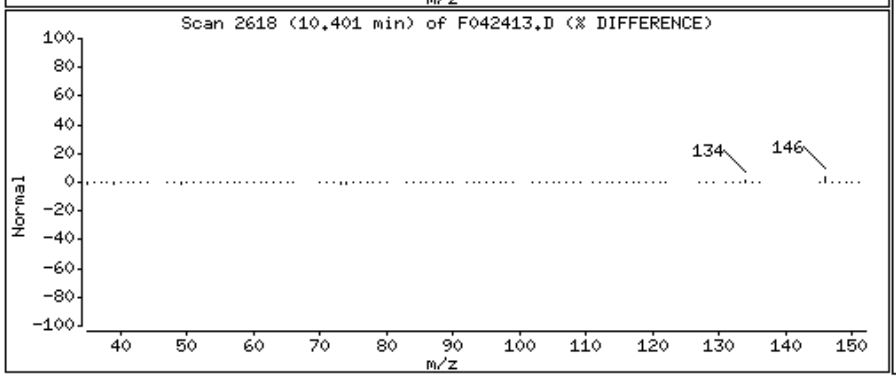
Column phase: DB624 Column diameter: 0.18

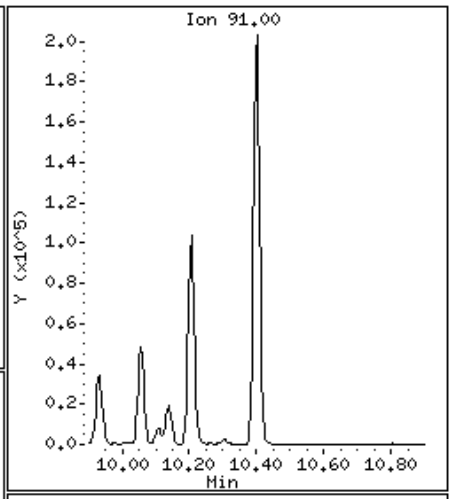
86 Benzyl Chloride Concentration: 53.74 ug/l

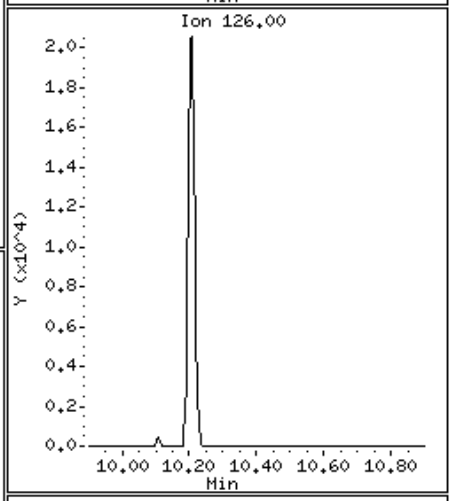


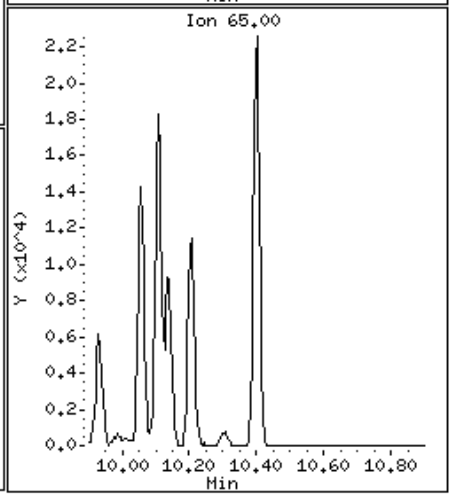












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

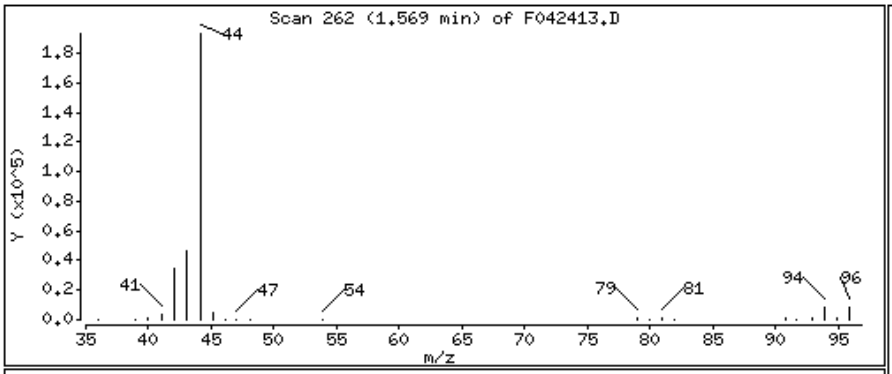
Operator: TS

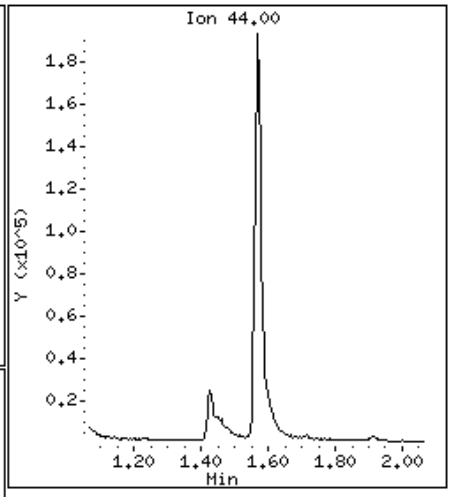
Column phase: DB624

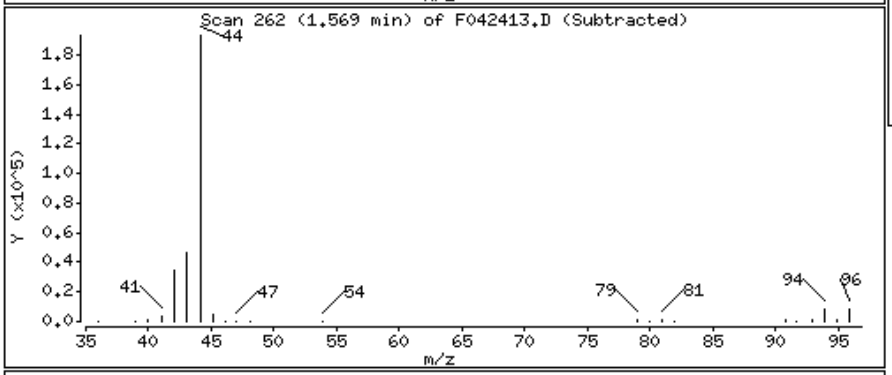
Column diameter: 0.18

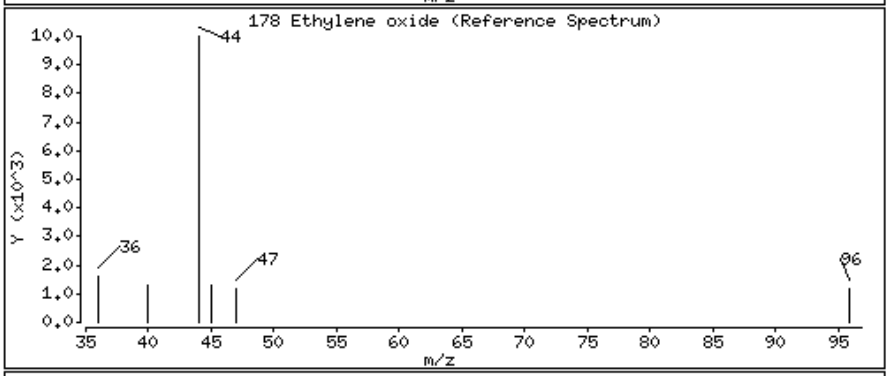
178 Ethylene oxide

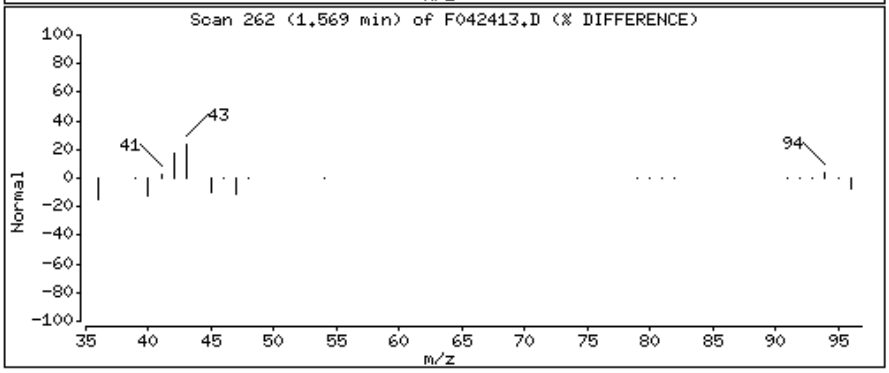
Concentration: 117.03 ug/l











Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

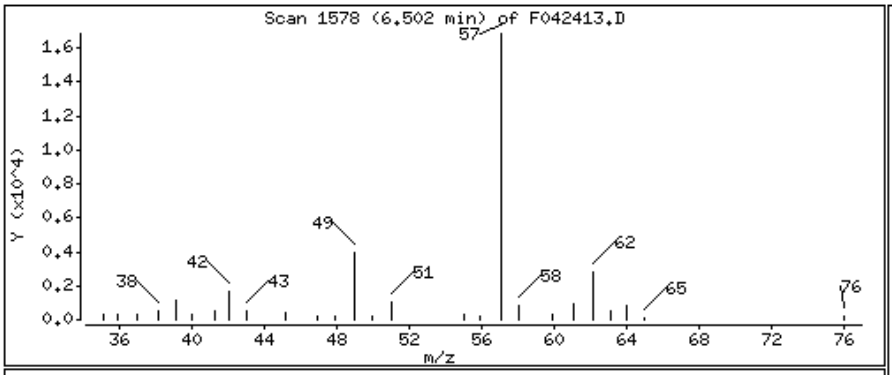
Operator: TS

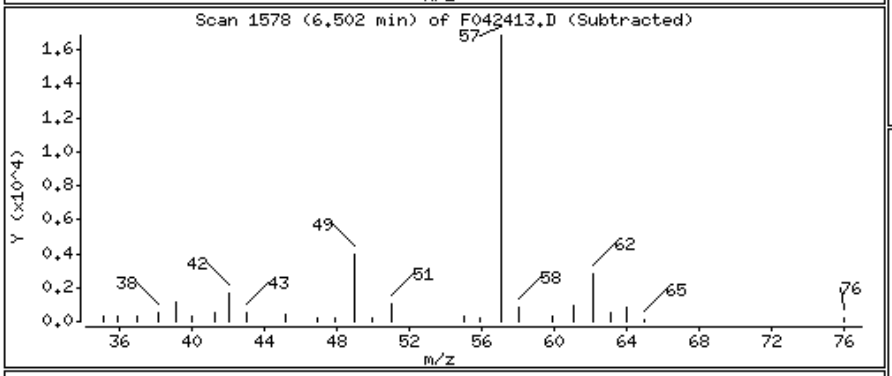
Column phase: DB624

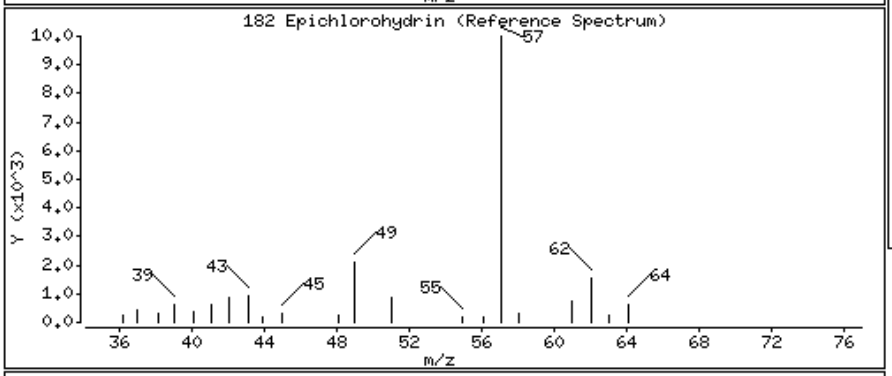
Column diameter: 0.18

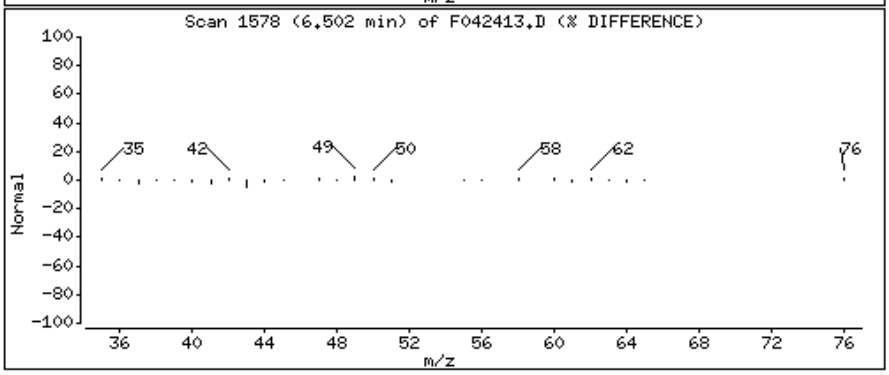
182 Epichlorohydrin

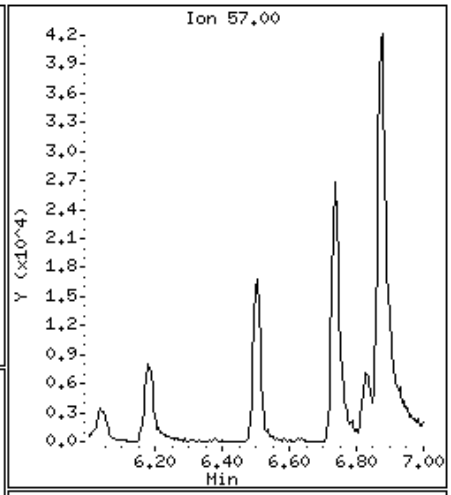
Concentration: 206.63 ug/l

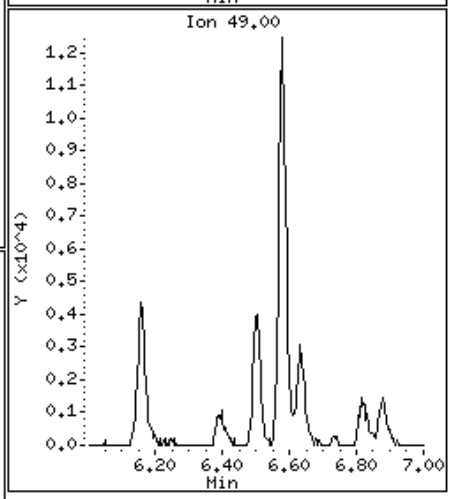












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 105

Date : 24-APR-2024 13:44

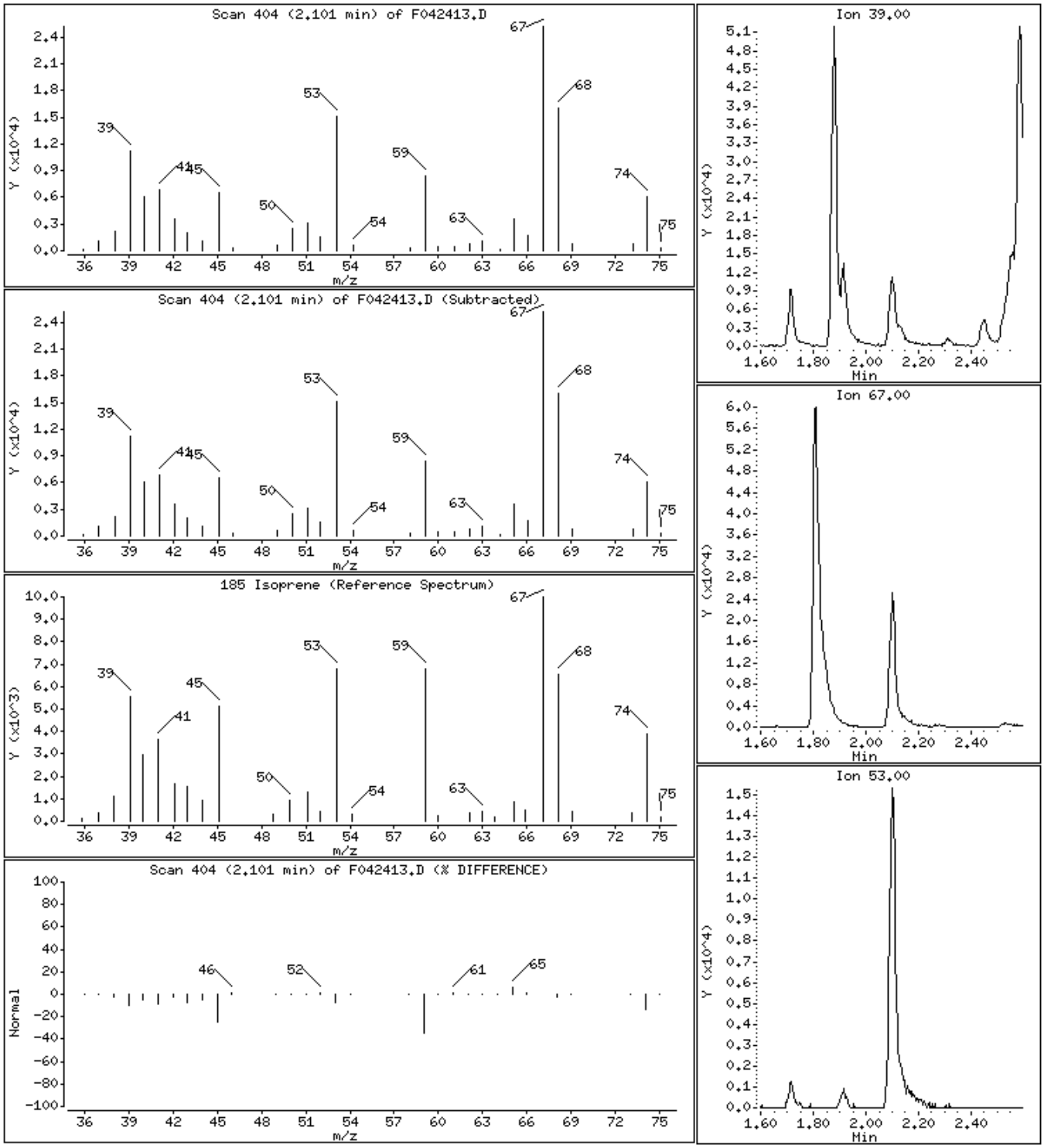
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

185 Isoprene Concentration: 56.68 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

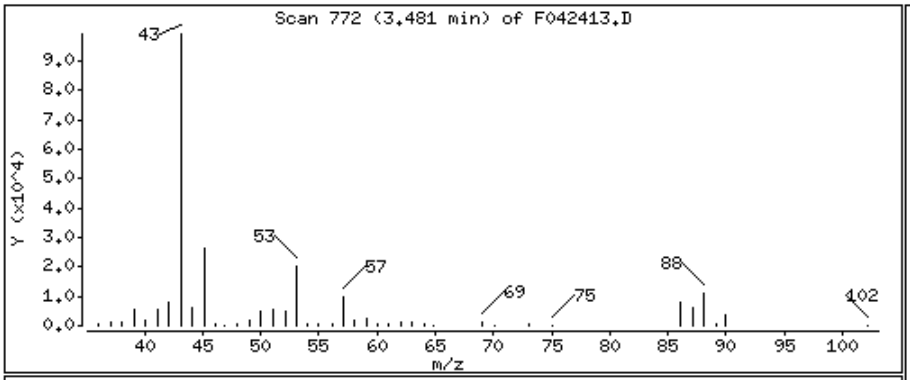
Operator: TS

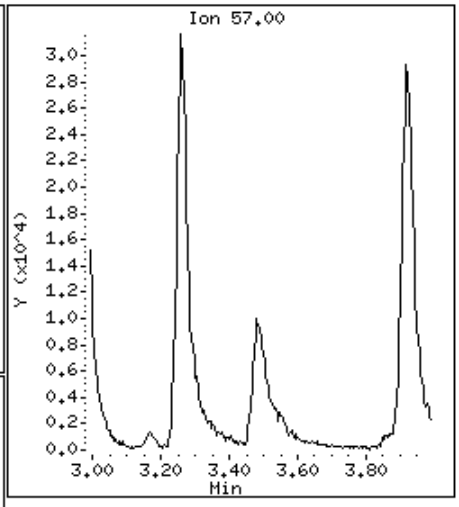
Column phase: DB624

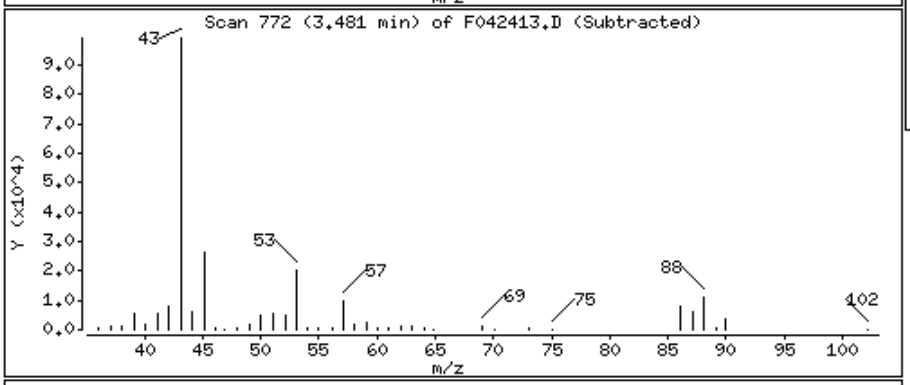
Column diameter: 0.18

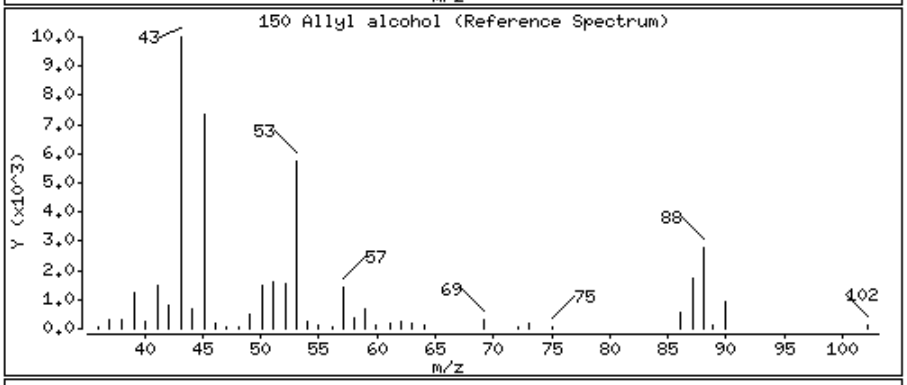
150 Allyl alcohol

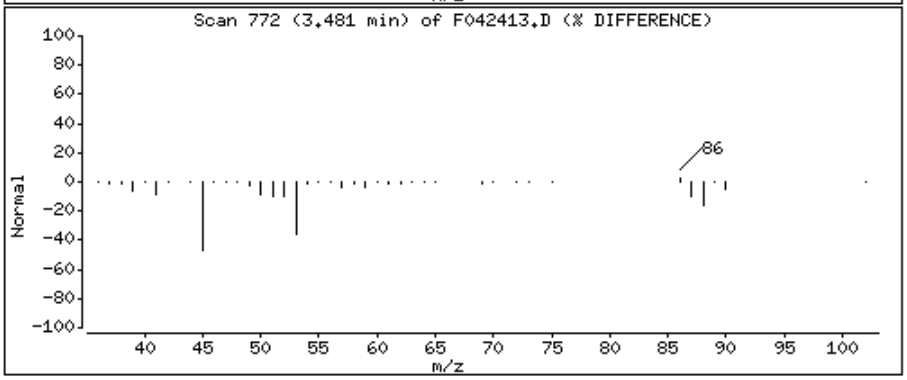
Concentration: 1003.44 ug/l











Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 107

Date : 24-APR-2024 13:44

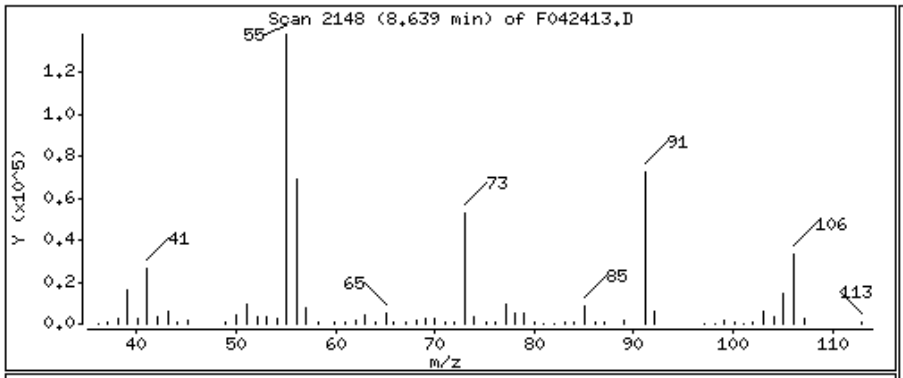
Client ID: VSTD050 Instrument: voa10.i

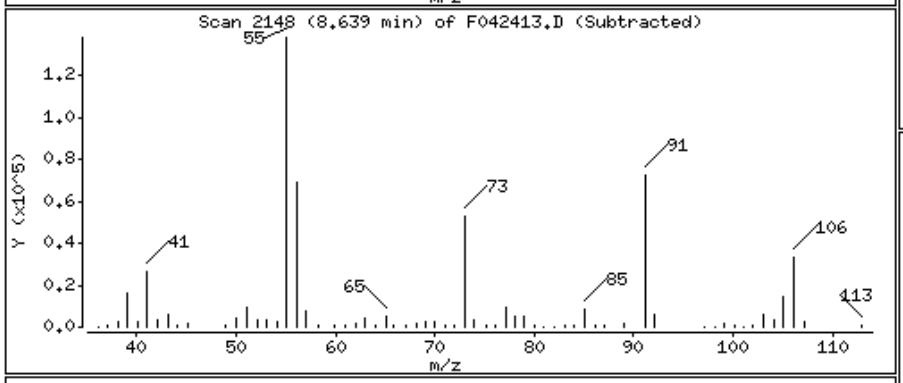
Sample Info: VSTD050;VSTD050;2;;ICV

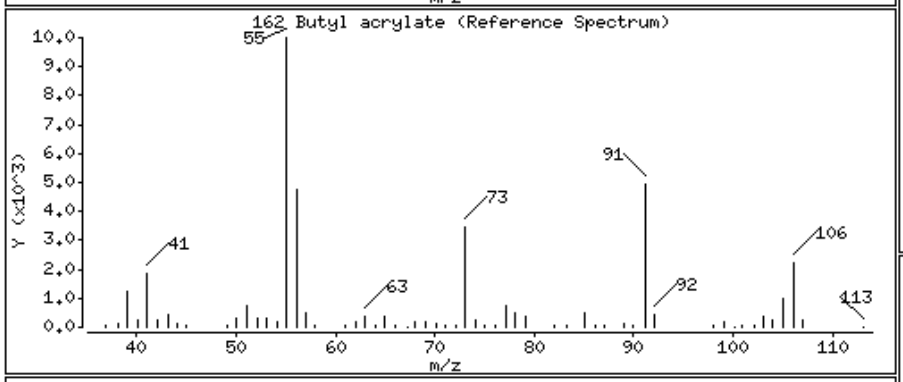
Purge Volume: 5.0 Operator: TS

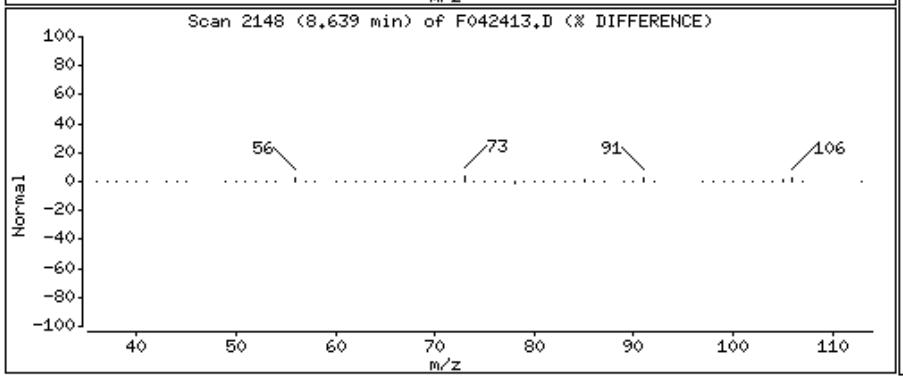
Column phase: DB624 Column diameter: 0.18

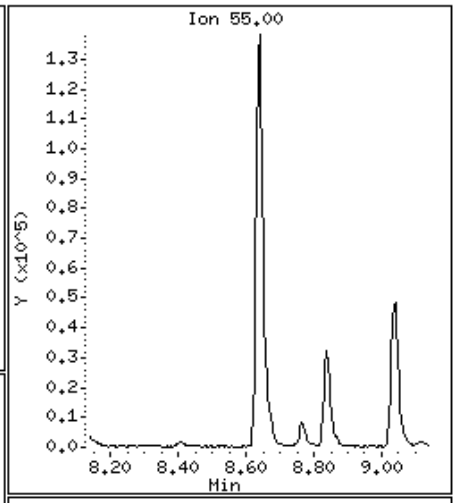
162 Butyl acrylate Concentration: 51.42 ug/l

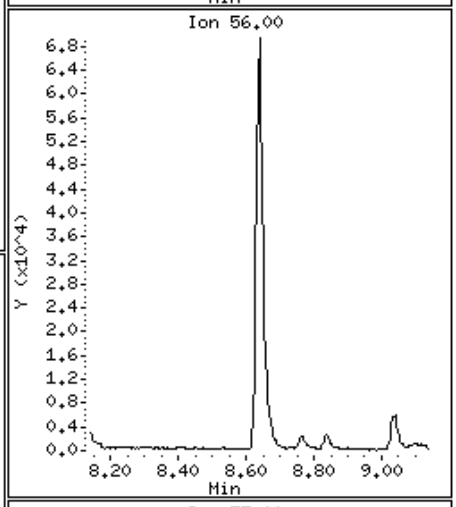


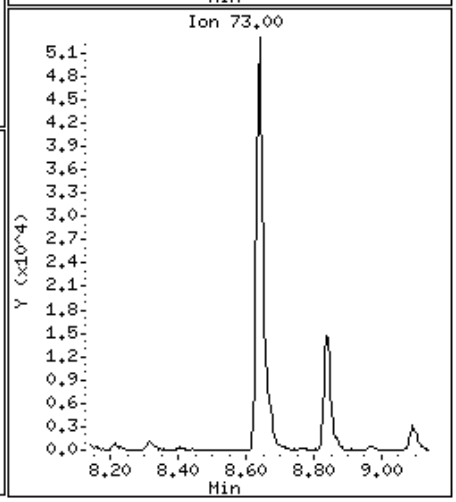












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

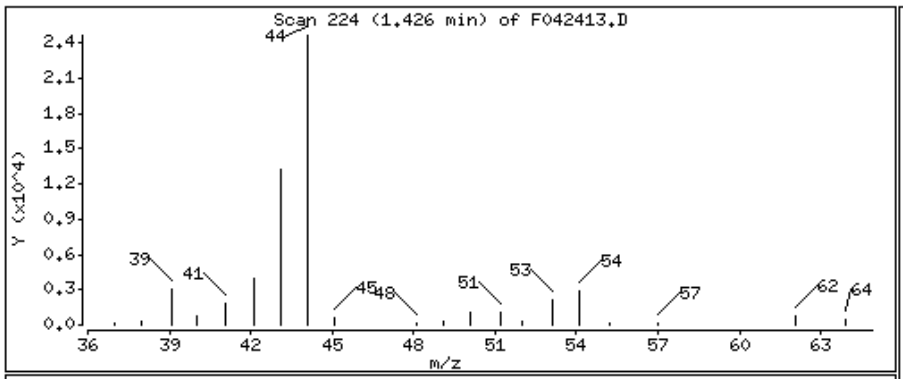
Operator: TS

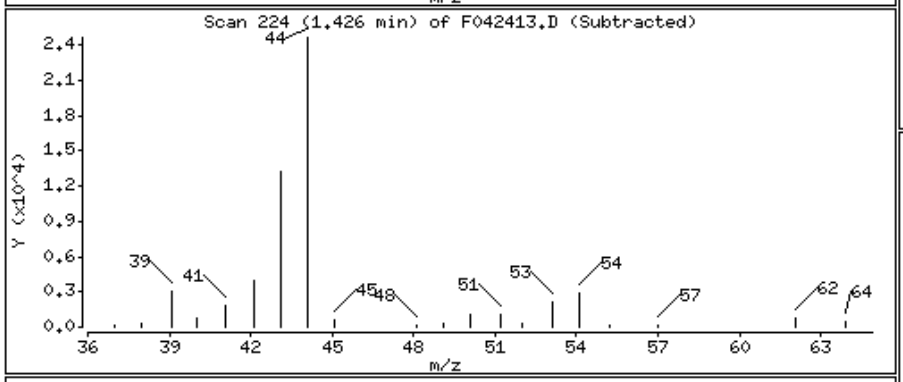
Column phase: DB624

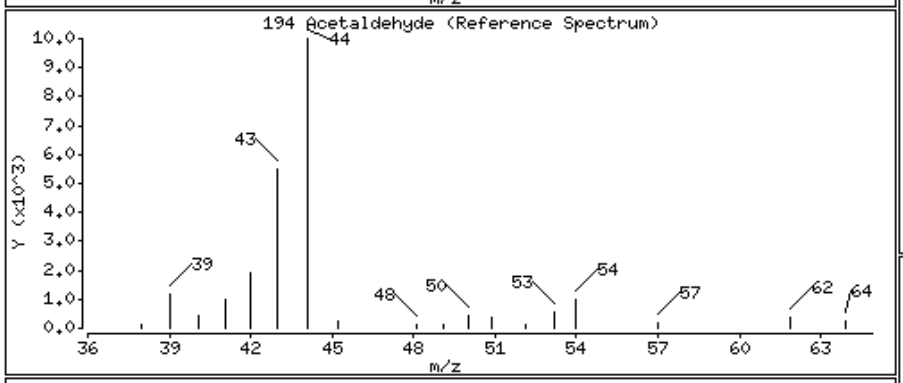
Column diameter: 0.18

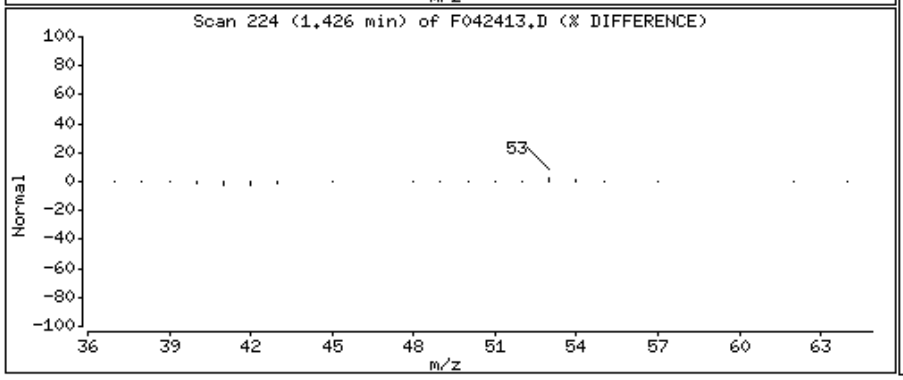
194 Acetaldehyde

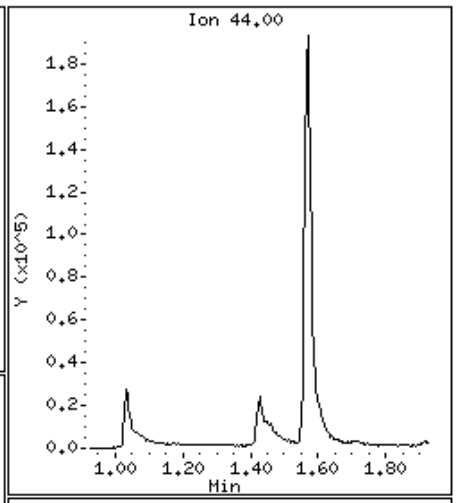
Concentration: 197.34 ug/l

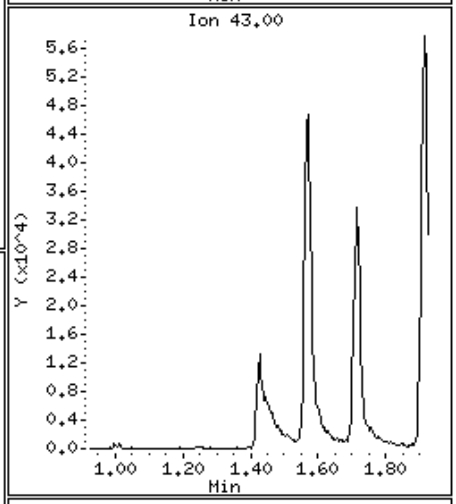


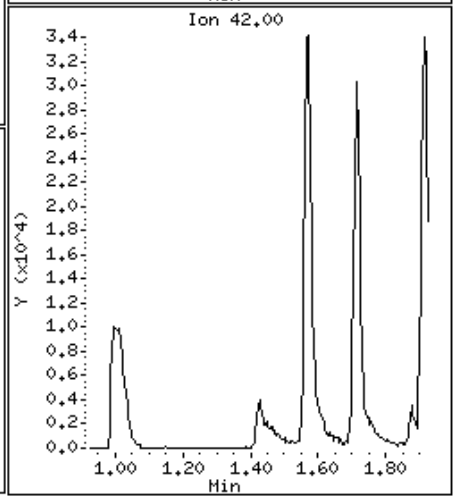












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

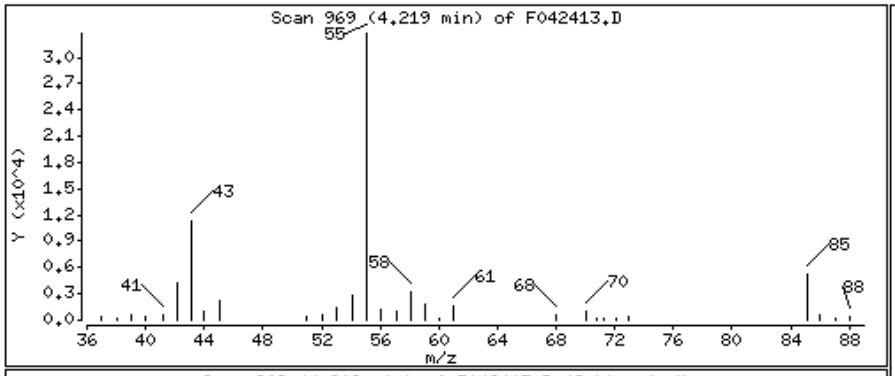
Operator: TS

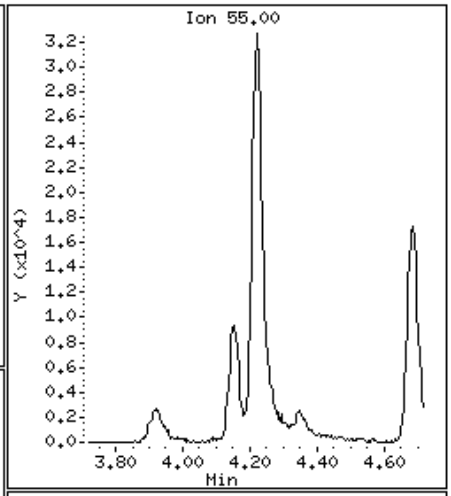
Column phase: DB624

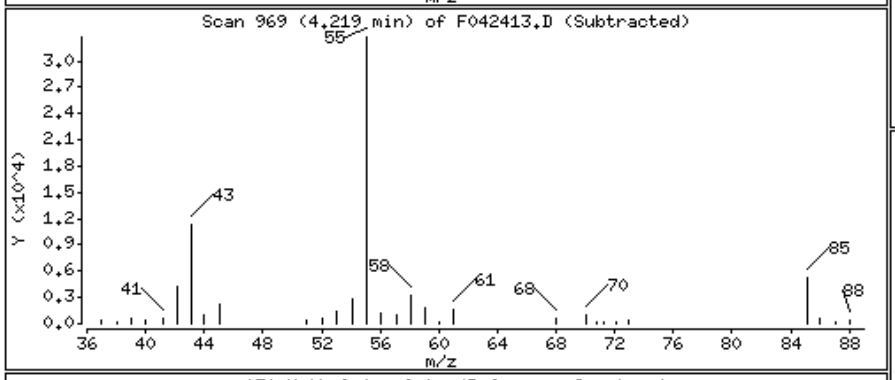
Column diameter: 0.18

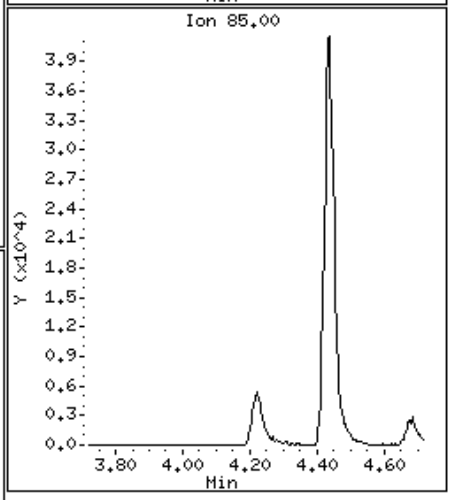
131 Methyl Acrylate

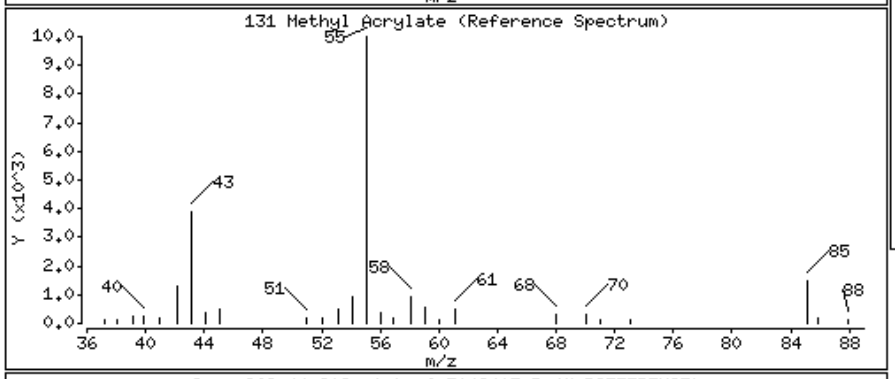
Concentration: 51.85 ug/l

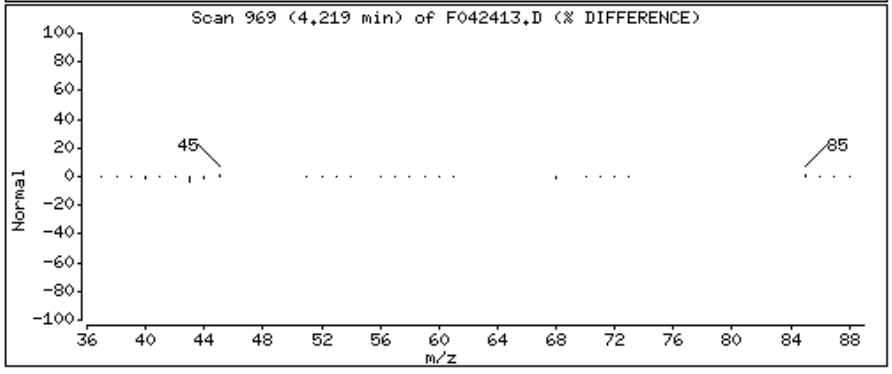












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 110

Date : 24-APR-2024 13:44

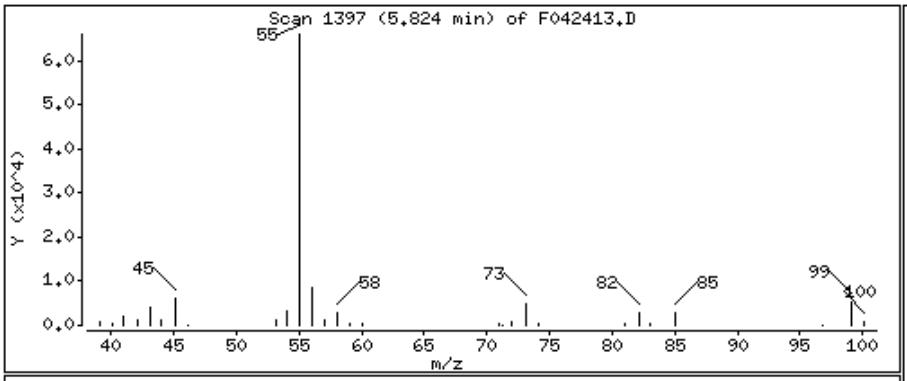
Client ID: VSTD050 Instrument: voa10.i

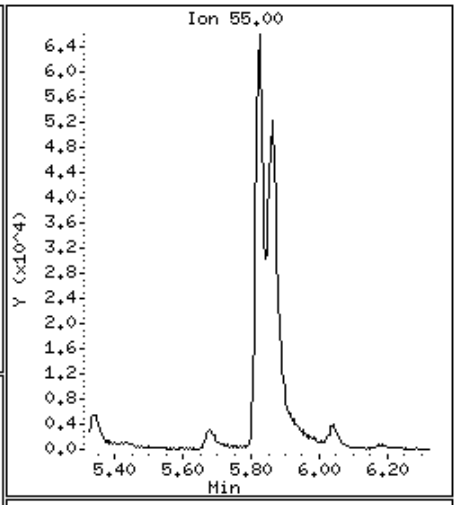
Sample Info: VSTD050;VSTD050;2;;ICV

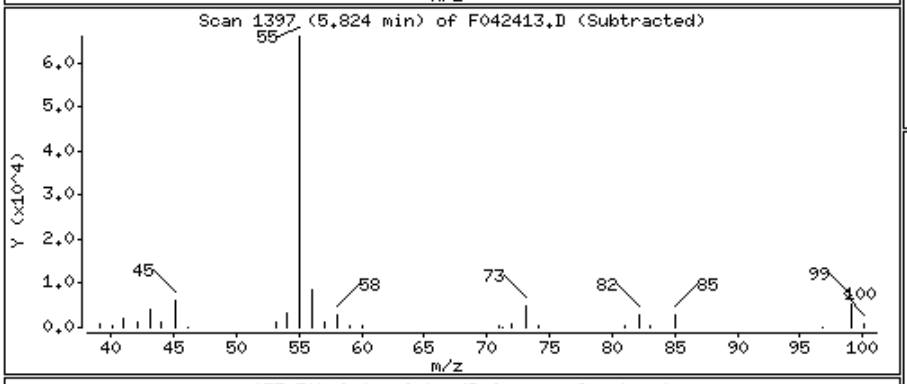
Purge Volume: 5.0 Operator: TS

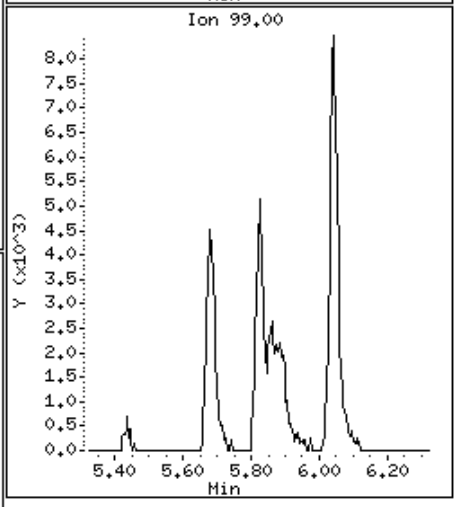
Column phase: DB624 Column diameter: 0.18

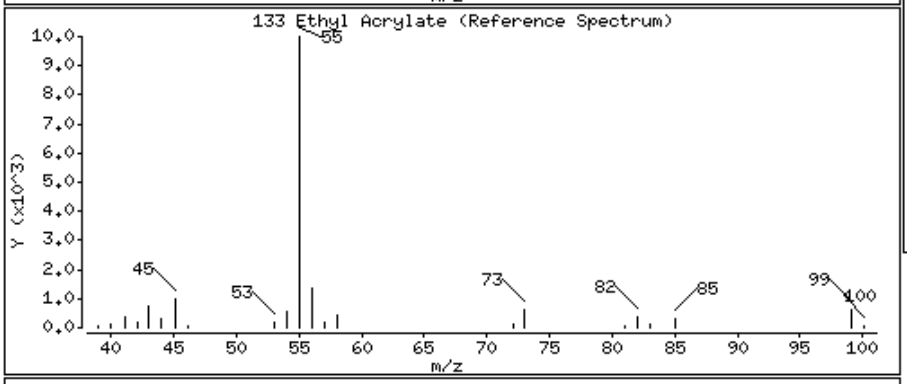
133 Ethyl Acrylate Concentration: 55.38 ug/l

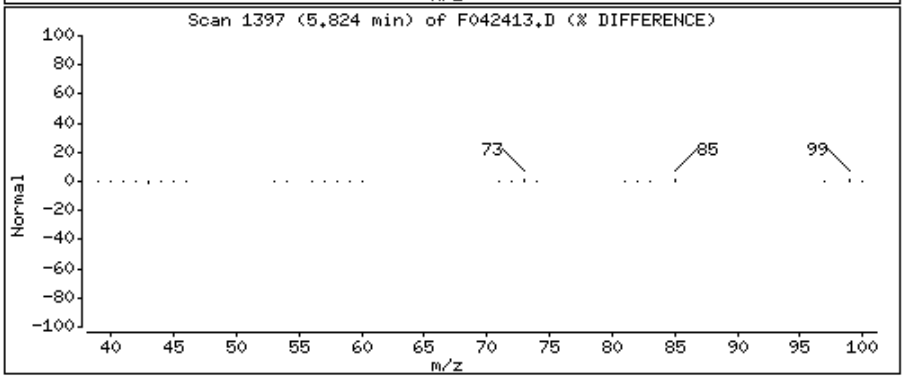












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

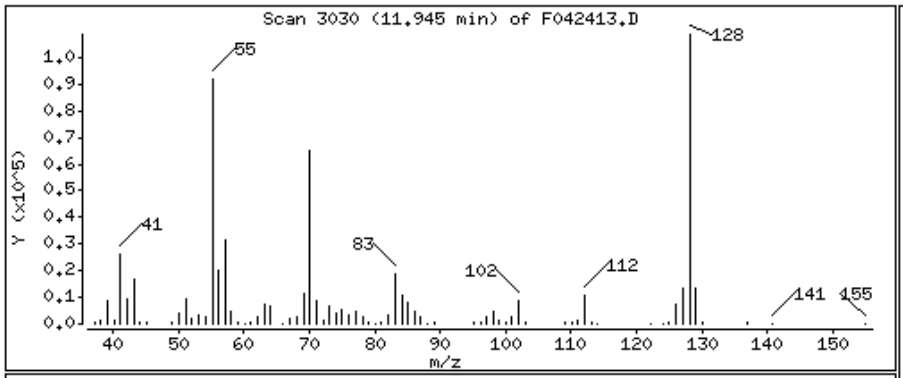
Operator: TS

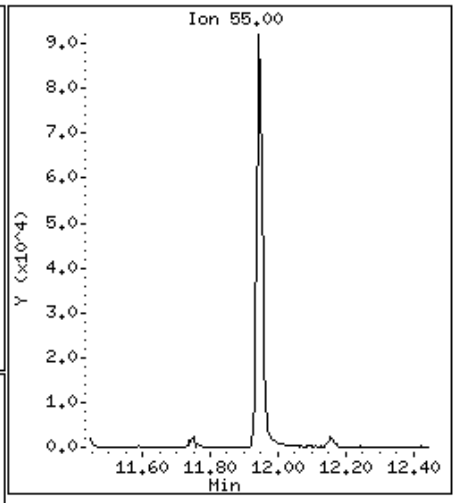
Column phase: DB624

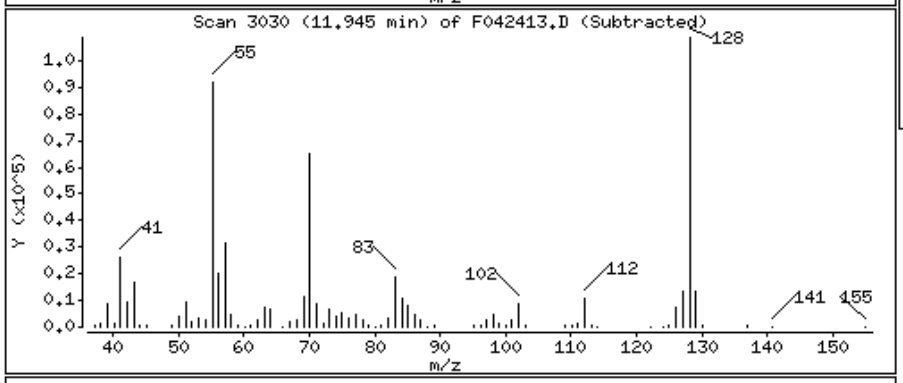
Column diameter: 0.18

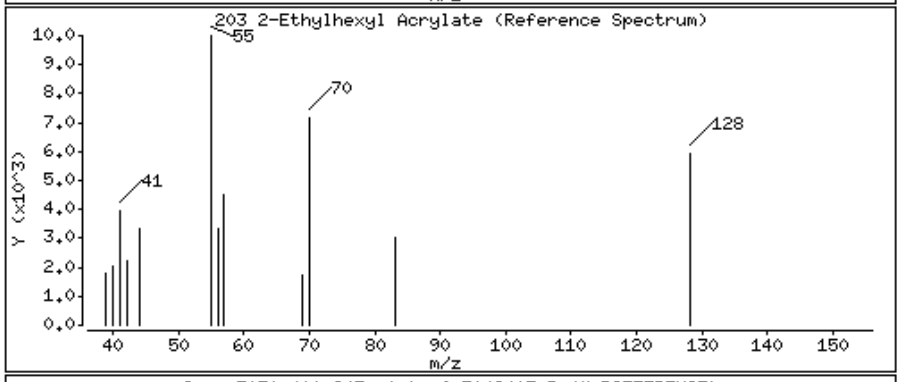
203 2-Ethylhexyl Acrylate

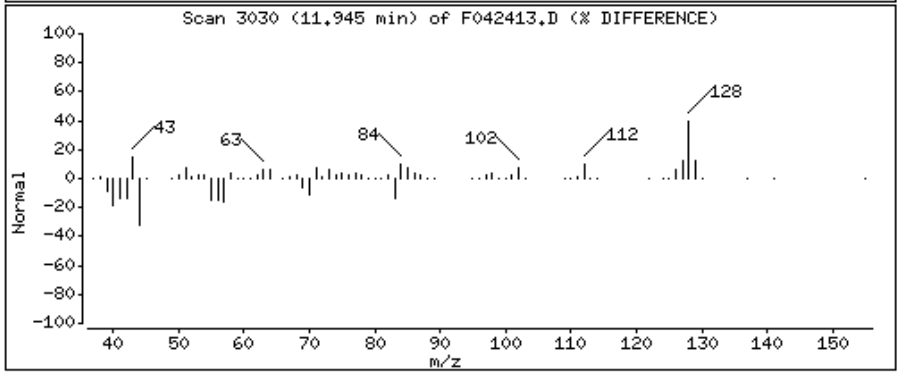
Concentration: 52.99 ug/l











Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

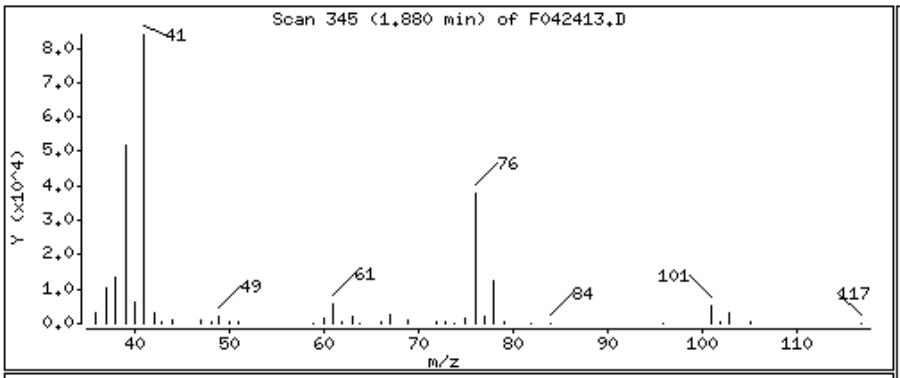
Operator: TS

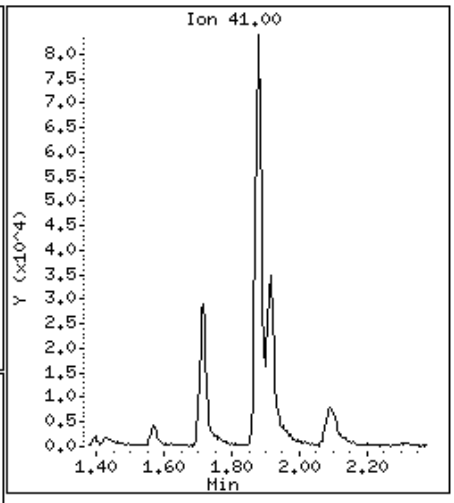
Column phase: DB624

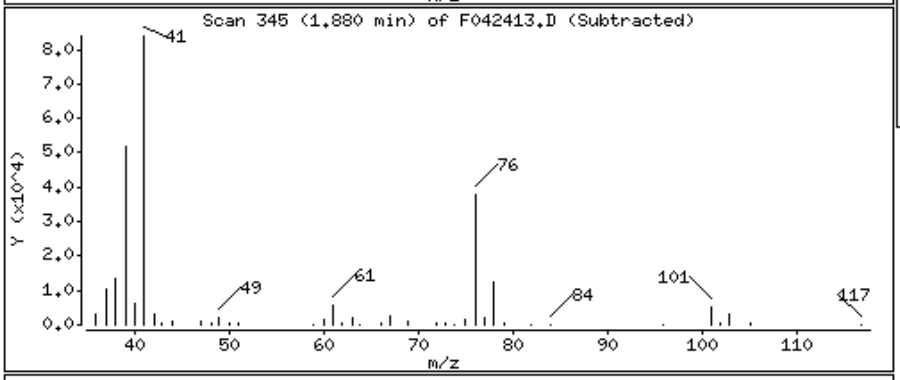
Column diameter: 0.18

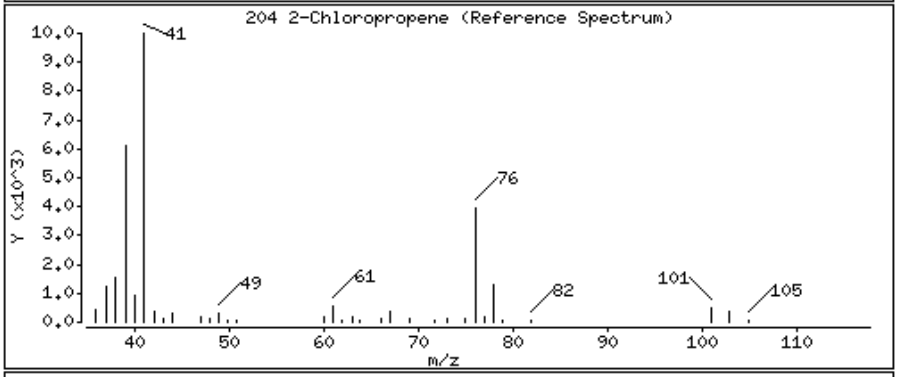
204 2-Chloropropene

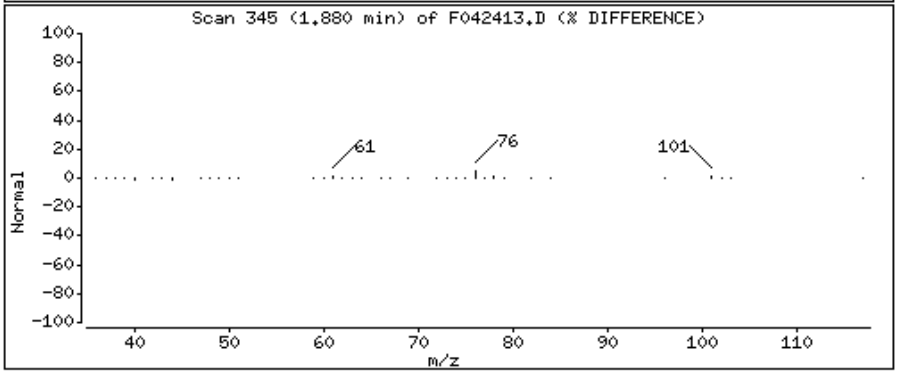
Concentration: 56.25 ug/l











Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 113

Date : 24-APR-2024 13:44

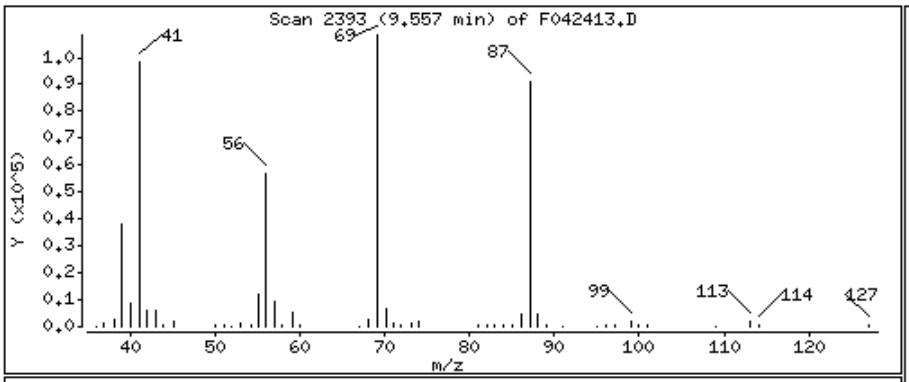
Client ID: VSTD050 Instrument: voa10.i

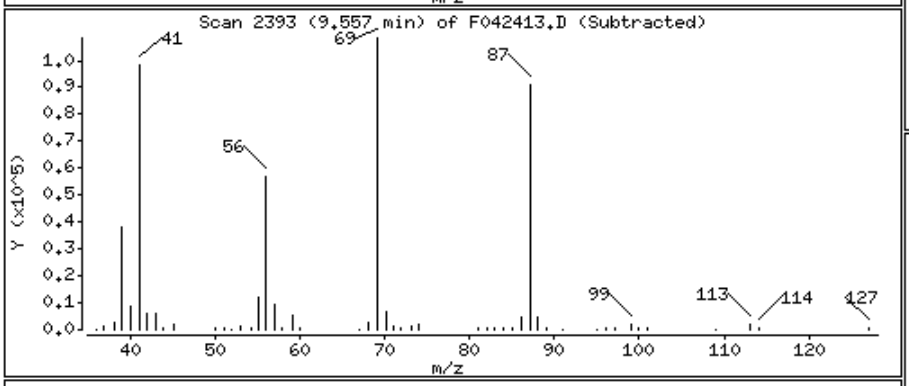
Sample Info: VSTD050;VSTD050;2;;ICV

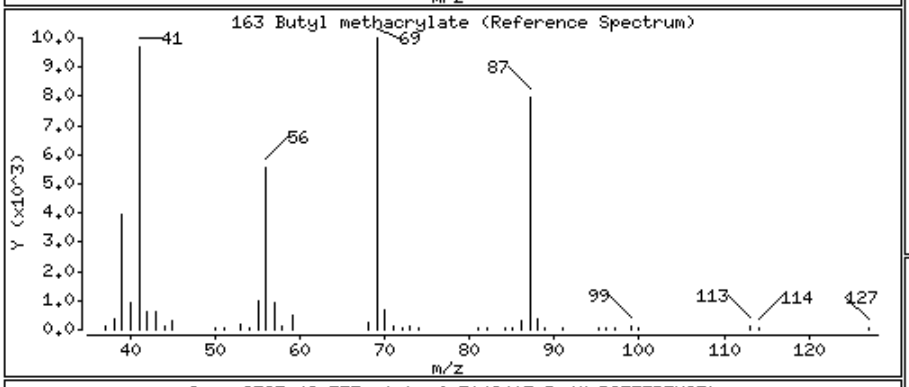
Purge Volume: 5.0 Operator: TS

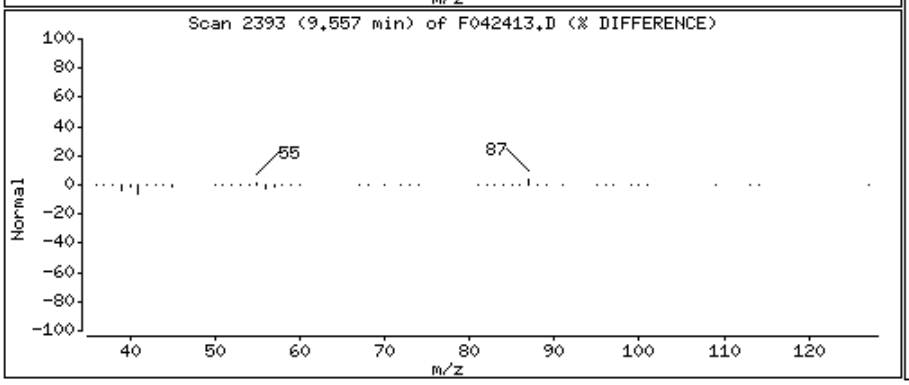
Column phase: DB624 Column diameter: 0.18

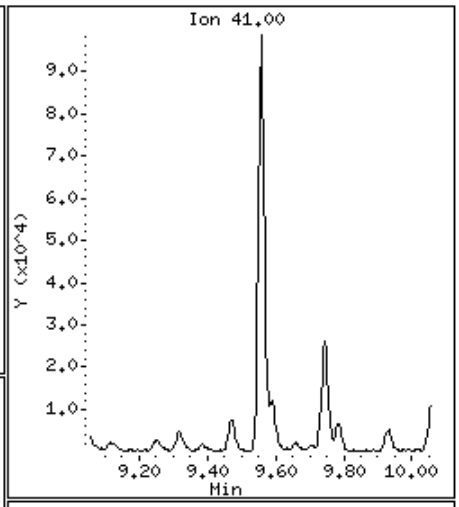
163 Butyl methacrylate Concentration: 55.44 ug/l

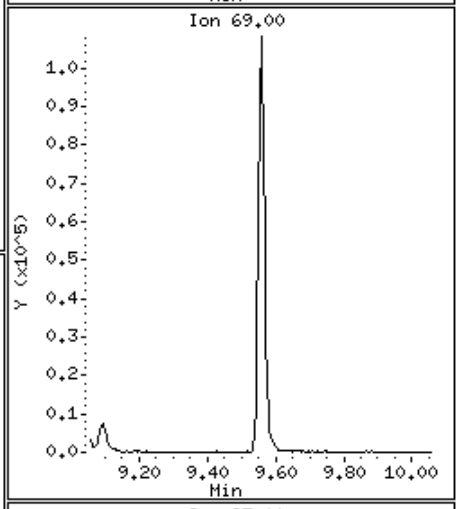


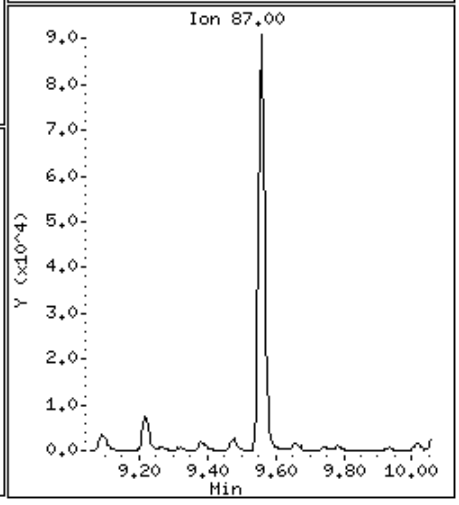












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 114

Date : 24-APR-2024 13:44

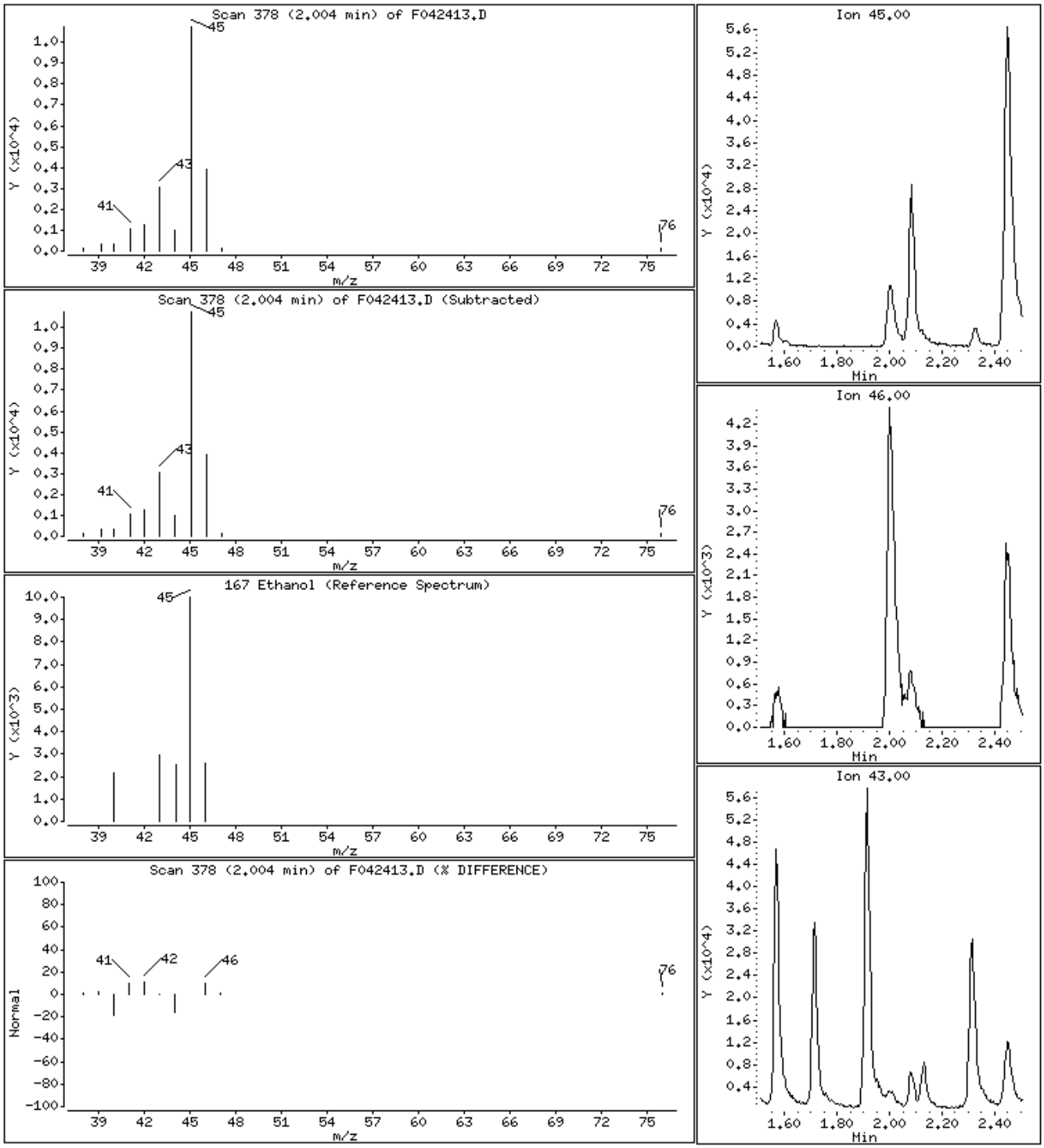
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

167 Ethanol Concentration: 1125.36 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 115

Date : 24-APR-2024 13:44

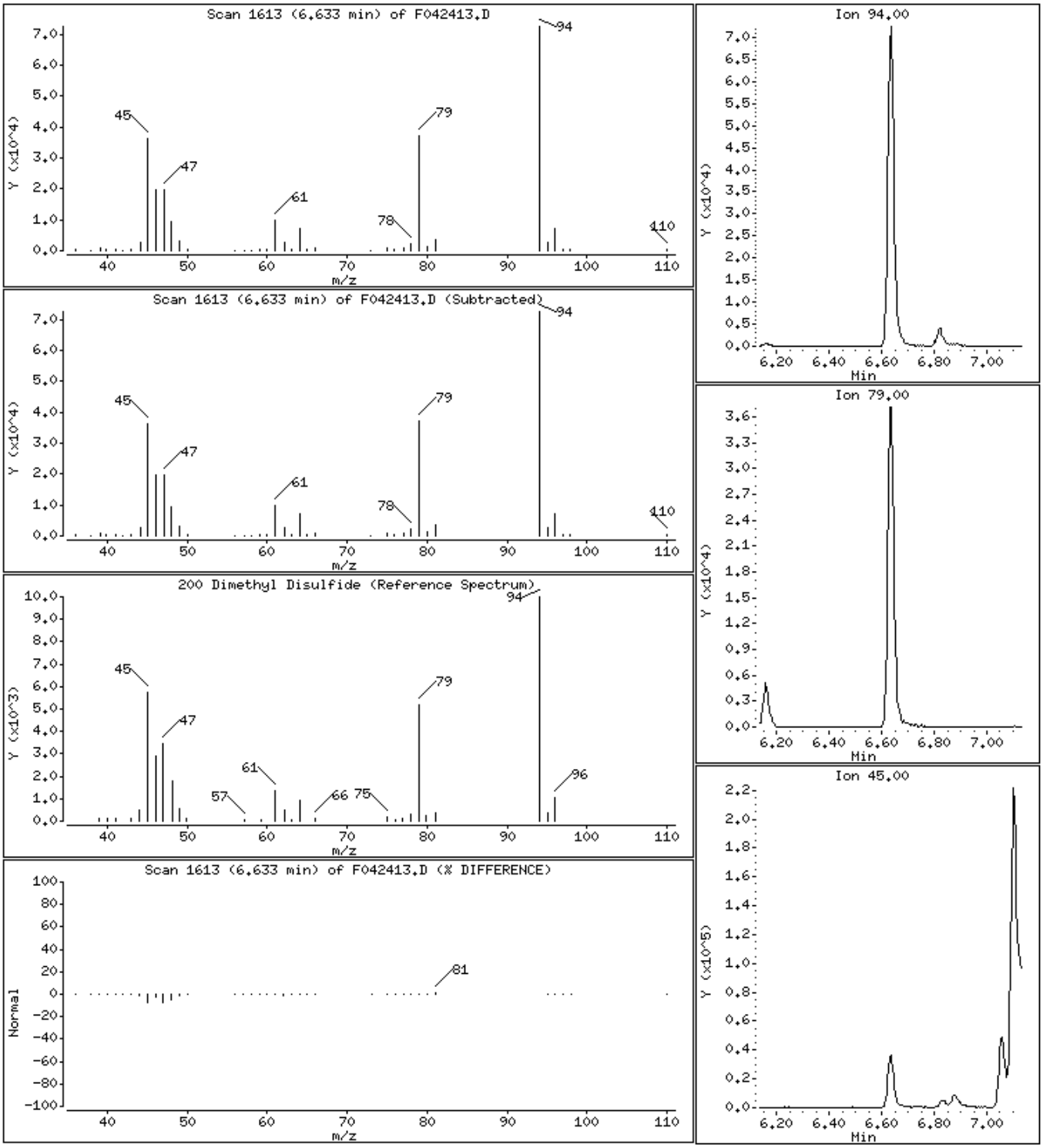
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

200 Dimethyl Disulfide Concentration: 50.69 ug/l



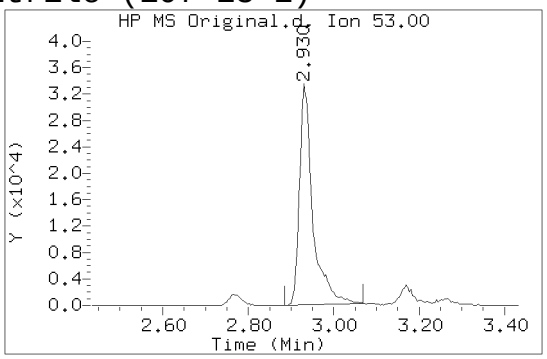
Data File : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D
Inj Date : 24-APR-2024 13:44
InstruID : voa10.i
LabSampID : VSTD050

Acrylonitrile (107-13-1)

Reason Code:

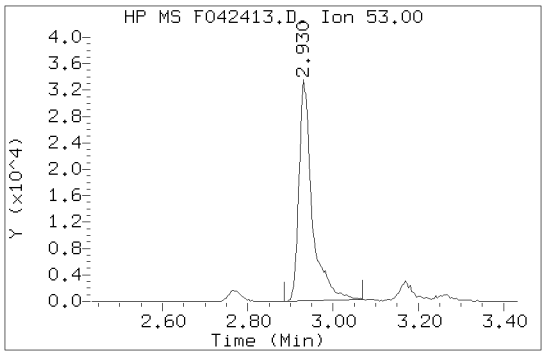
BEFORE

MASS
53
AREA
73781
HEIGHT
33515
24-Apr-2024
14:05
firat
tastan



AFTER

MASS
53
AREA
73781
HEIGHT
33515
05-Jun-2024
15:09
firat
tasta



BEFORE

MASS
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AREA
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HEIGHT
27992
24-Apr-2024
14:05
firat
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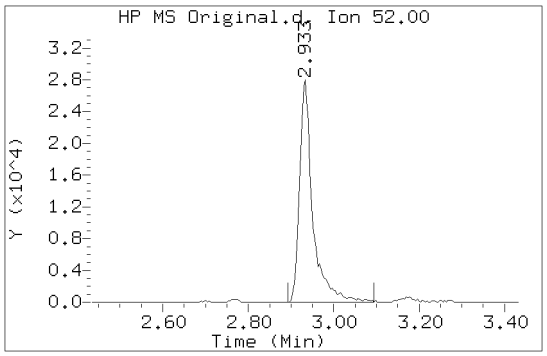

AFTER

MASS
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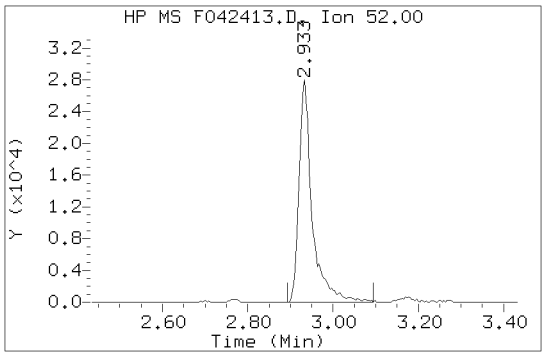
AREA
61350
HEIGHT
27992
05-Jun-2024
15:09
firat
tasta



BEFORE

MASS
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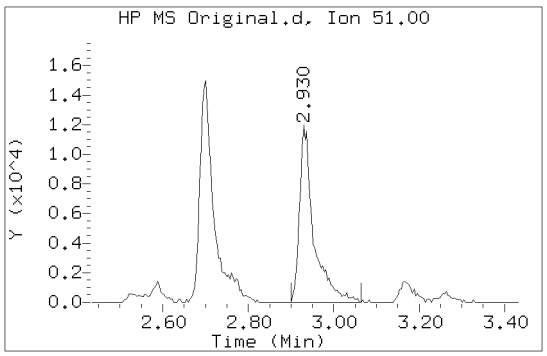
AREA
28100
HEIGHT
11986
24-Apr-2024
14:05
firat
tastan



AFTER

MASS
51
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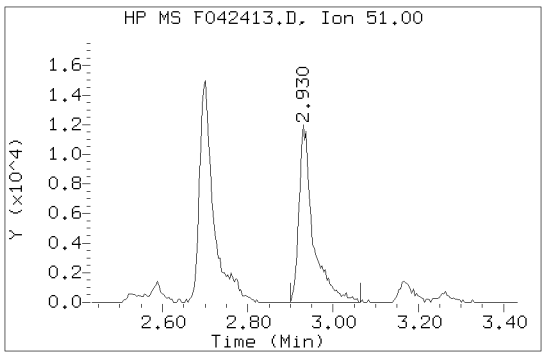
28100
HEIGHT
11986
05-Jun-2024
15:09
firat
tasta

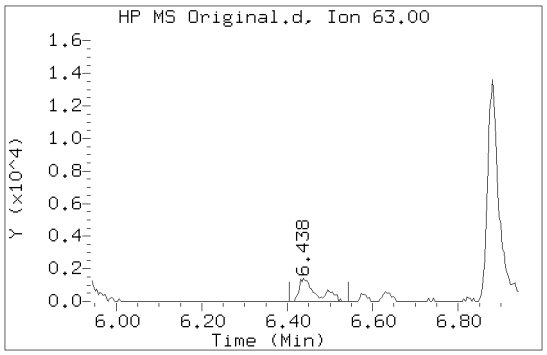


2-Chloroethylvinyl ether (110-75-8)

Reason Code:

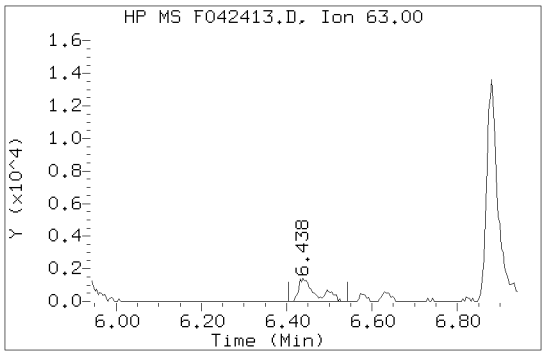
BEFORE

MASS
63
AREA
3928
HEIGHT
1435
24-Apr-2024
14:05
firat
tastan



AFTER

MASS
63
AREA
3928
HEIGHT
1435
05-Jun-2024
15:09
firat
tasta

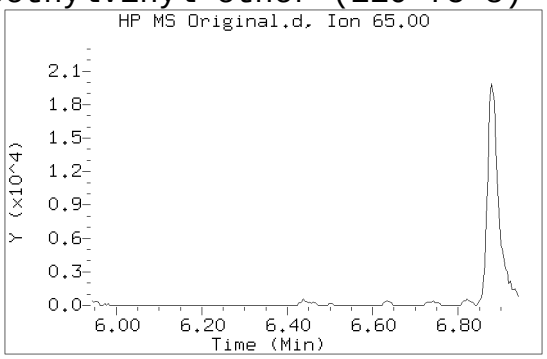


Data File : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D
Inj Date : 24-APR-2024 13:44
InstruID : voa10.i
LabSampID : VSTD050

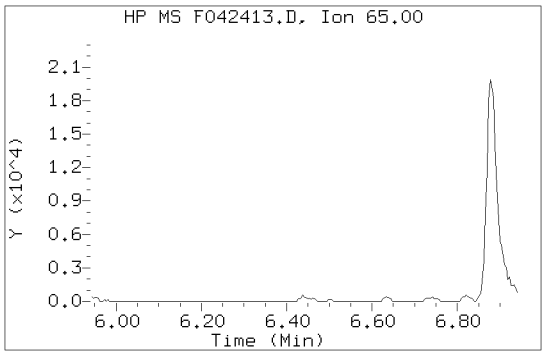
2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE
MASS
65
AREA
0
HEIGHT
0
24-Apr-2024
14:05
firat
tastan



AFTER
MASS
65
AREA
0
HEIGHT
0
05-Jun-2024
15:09
firat
tasta



BEFORE
MASS
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AREA
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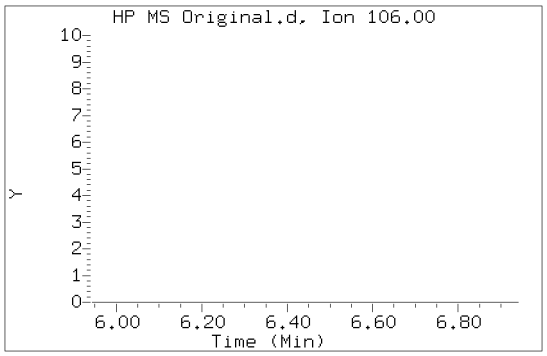
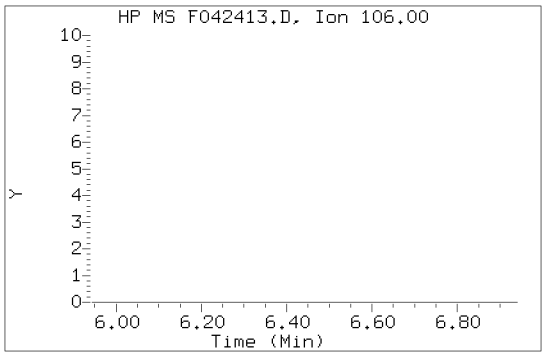
HEIGHT
0
24-Apr-2024
14:05
firat
tastan



AFTER
MASS
106
AREA
0
HEIGHT
0
05-Jun-2024
15:09
firat
tasta



Allyl Chloride (107-05-1)

Reason Code:

BEFORE
MASS
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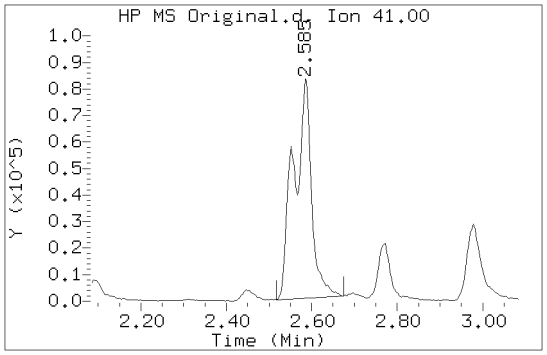
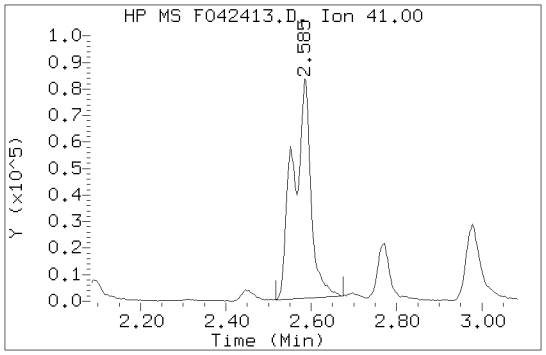
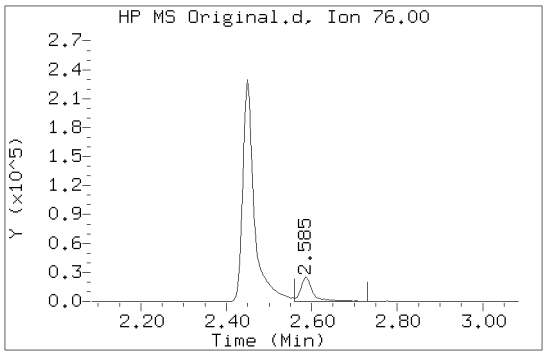
AREA
242000
HEIGHT
82667
24-Apr-2024
14:05
firat
tastan



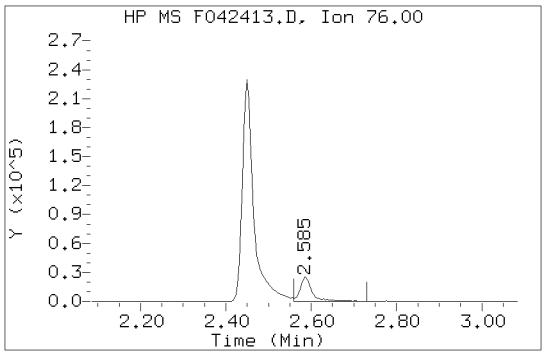
AFTER
MASS
41
AREA
242000
HEIGHT
82667
05-Jun-2024
15:09
firat
tasta



BEFORE
MASS
76
AREA
50409
HEIGHT
25016
24-Apr-2024
14:05
firat
tastan



AFTER
MASS
76
AREA
50409
HEIGHT
25016
05-Jun-2024
15:09
firat
tasta



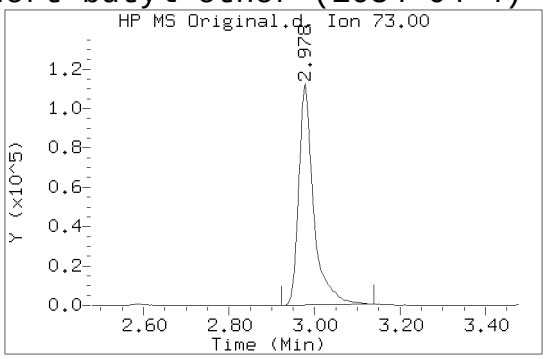
Data File : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D
Inj Date : 24-APR-2024 13:44
InstruID : voa10.i
LabSampID : VSTD050

Methyl tert-butyl ether (1634-04-4)

Reason Code:

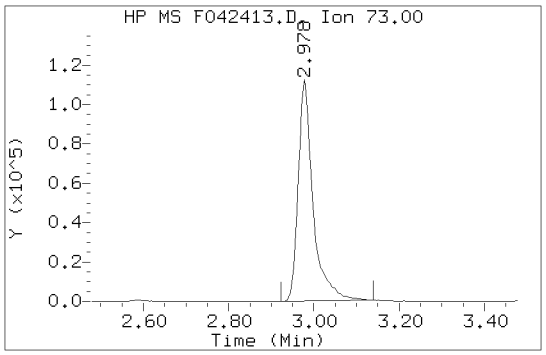
BEFORE

MASS
73
AREA
275778
HEIGHT
112497
24-Apr-2024
14:05
firat
tastan



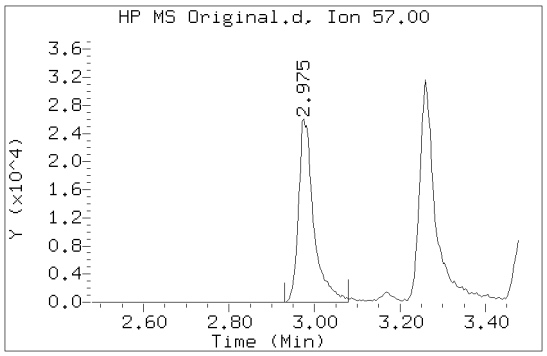
AFTER

MASS
73
AREA
275778
HEIGHT
112497
05-Jun-2024
15:09
firat
tasta



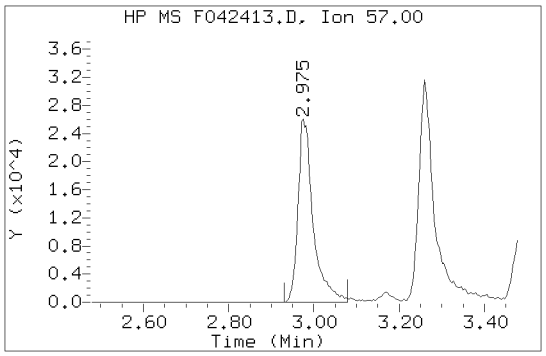
BEFORE

MASS
57
AREA
65500
HEIGHT
26072
24-Apr-2024
14:05
firat
tastan



AFTER

MASS
57
AREA
65500
HEIGHT
26072
05-Jun-2024
15:09
firat
tasta

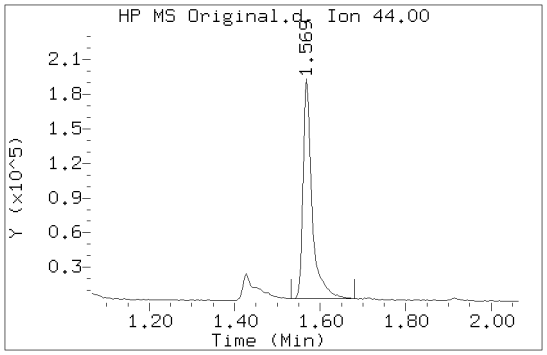


Ethylene oxide (75-21-8)

Reason Code:

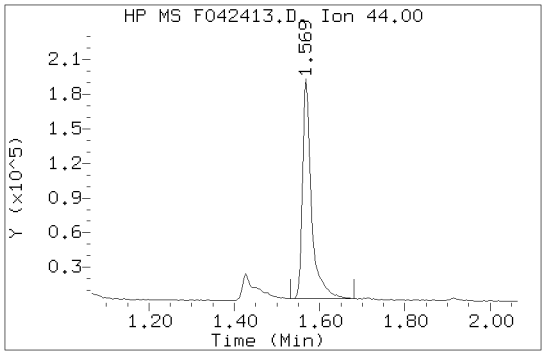
BEFORE

MASS
44
AREA
287177
HEIGHT
190653
24-Apr-2024
14:05
firat
tastan



AFTER

MASS
44
AREA
287177
HEIGHT
190653
05-Jun-2024
15:09
firat
tasta

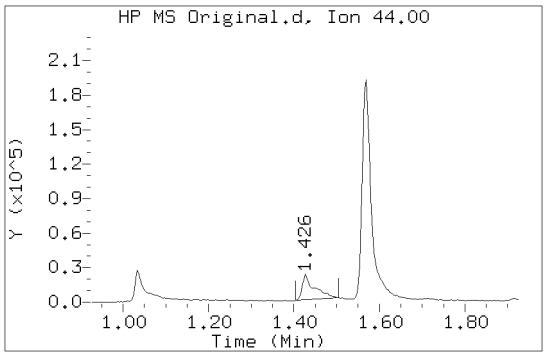


Acetaldehyde (75-07-0)

Reason Code:

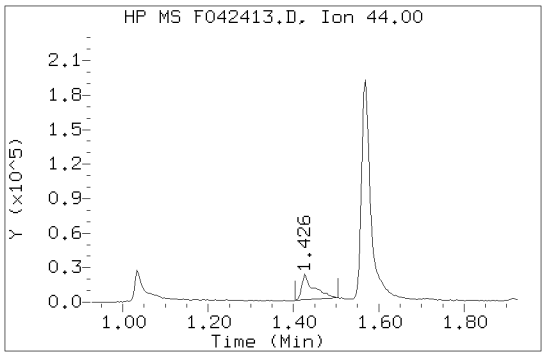
BEFORE

MASS
44
AREA
44223
HEIGHT
22631
24-Apr-2024
14:05
firat
tastan



AFTER

MASS
44
AREA
44223
HEIGHT
22631
05-Jun-2024
15:09
firat
tasta



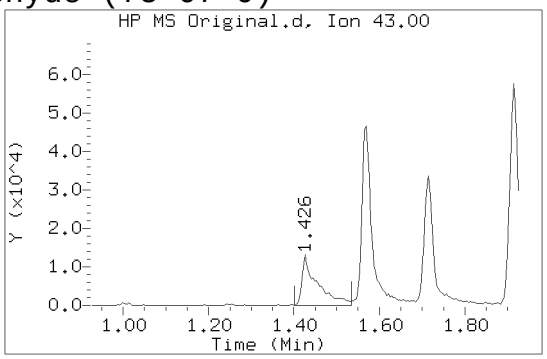
Data File : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D
Inj Date : 24-APR-2024 13:44
InstruID : voa10.i
LabSampID : VSTD050

Acetaldehyde (75-07-0)

Reason Code:

BEFORE

MASS
43
AREA
33350
HEIGHT
13164
24-Apr-2024
14:05
firat
tastan



AFTER

MASS
43
AREA
33350
HEIGHT
13164
05-Jun-2024
15:09
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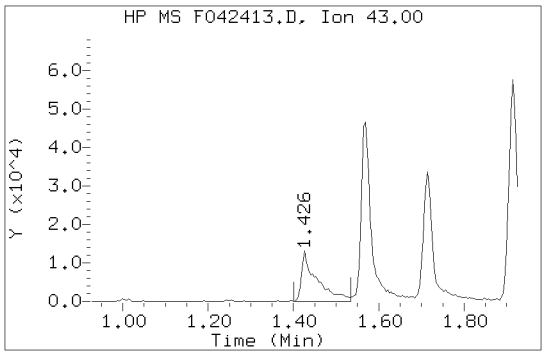
tasta



BEFORE

MASS
42
AREA
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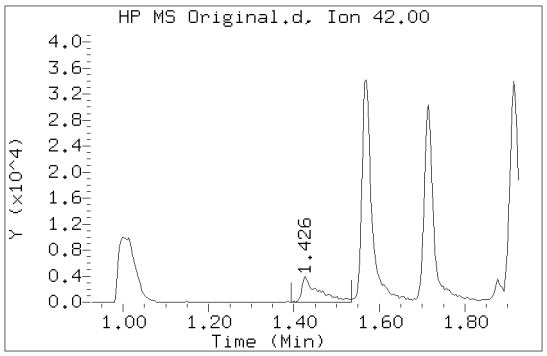
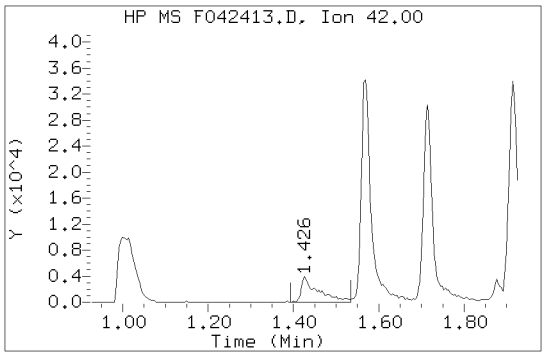
HEIGHT
3939
24-Apr-2024
14:05
firat
tastan



AFTER

MASS
42
AREA
10959
HEIGHT
3939
05-Jun-2024
15:09
firat
tasta



right solutions.
right partner.

RawData

<textMethods>

Workorder

HS24041309

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

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\voa10.i\F240424.b\F042412.D Page 1
Report Date: 21-May-2024 11:19

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042412.D
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 24-APR-2024 13:23
Operator : TS Inst ID: voa10.i
Smp Info : BFB;BFB;3;;BFB
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa10.i\F240424.b\bfb.m
Meth Date : 26-Dec-2023 06:28 donna.brou Quant Type: ISTD
Cal Date : Cal File:
Als bottle: 12 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.14 Sample Matrix: WATER
Processing Host: NAHSTW7066

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)	FINAL (ug/l)		
RT	EXP RT	REL RT	MASS	RESPONSE			TARGET RANGE	RATIO
1 bfb							CAS #: 460-00-4	
9.092	9.096	(0.000)	95	47200			0.00- 100.00	100.00
9.092	9.096	(0.000)	50	8753			15.00- 40.00	18.54
9.092	9.096	(0.000)	75	23072			30.00- 60.00	48.88
9.092	9.096	(0.000)	96	3397			5.00- 9.00	7.20
9.092	9.096	(0.000)	173	0	0.0	0.0	0.00- 2.00	0.00
9.092	9.096	(0.000)	174	43912			50.00- 0.00	93.03
9.092	9.096	(0.000)	175	3659			5.00- 9.00	8.33
9.092	9.096	(0.000)	176	42800			95.00- 101.00	97.47
9.092	9.096	(0.000)	177	2874			5.00- 9.00	6.71

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.54
75	30.00 - 60.00% of mass 95	48.88
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.03
175	5.00 - 9.00% of mass 174	7.75 (8.33)
176	95.00 - 101.00% of mass 174	90.68 (97.47)
177	5.00 - 9.00% of mass 176	6.09 (6.71)

Data File: F042412.D
Spectrum: Scan 2267 (9.08)
Location of Maximum: 95.10
Number of points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	286	57.10	1057	75.10	23072	103.90	182
37.10	2426	59.90	346	76.00	1897	116.90	153
38.10	1787	61.10	2336	78.10	282	117.80	159
39.10	722	62.00	1971	78.90	1055	129.70	176
40.10	173	63.00	1702	80.00	287	140.90	485
43.90	319	64.00	264	81.00	898	142.90	285
45.10	406	67.20	171	87.00	2113	174.00	43912
47.20	858	68.00	4436	88.00	2700	175.00	3659
48.00	362	69.10	4684	92.00	1244	176.00	42800
49.10	2216	70.00	272	93.10	1978	177.00	2874
50.10	8753	71.90	278	94.00	4524		
51.10	3147	73.00	2162	95.10	47200		
56.00	458	74.10	7379	96.10	3397		

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042412.D Page 1

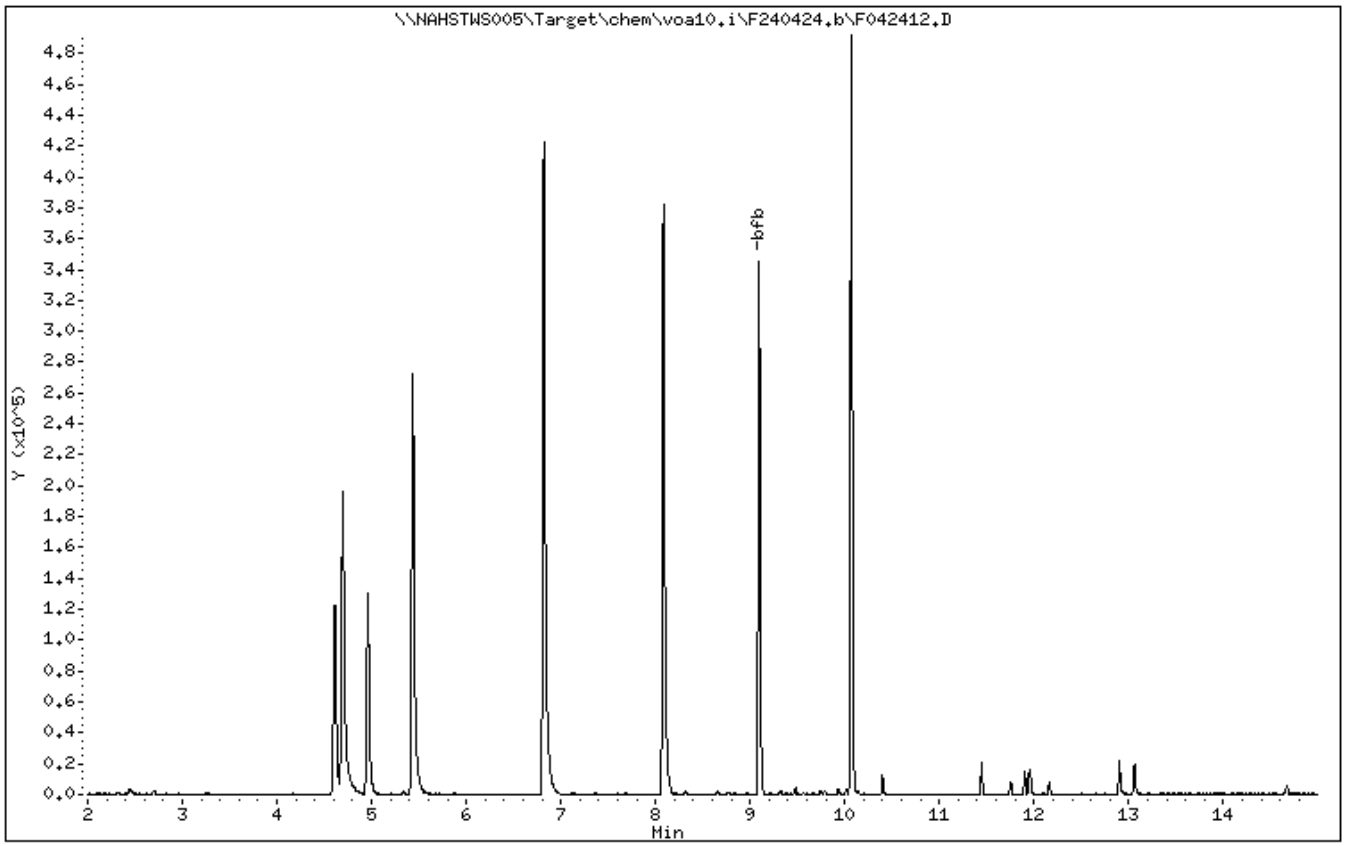
Date : 24-APR-2024 13:23

Client ID: BFB Instrument: voa10.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042412.D Page 2

Date : 24-APR-2024 13:23

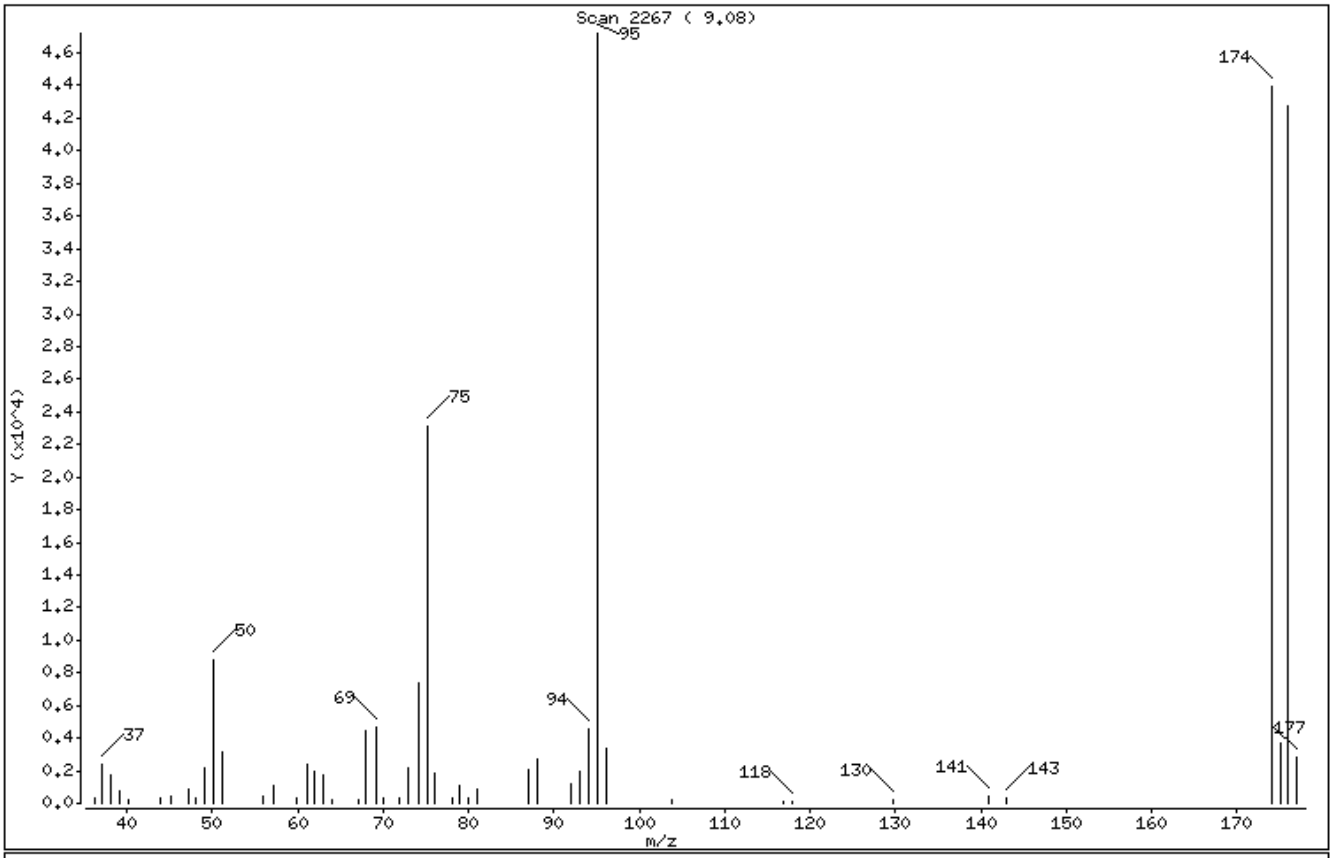
Client ID: BFB Instrument: voa10.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

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	18.54
75	30.00 - 60.00% of mass 95	48.88
96	5.00 - 9.00% of mass 95	7.20
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	93.03
175	5.00 - 9.00% of mass 174	7.75 (8.33)
176	95.00 - 101.00% of mass 174	90.68 (97.47)
177	5.00 - 9.00% of mass 176	6.09 (6.71)

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042412.D

Date : 24-APR-2024 13:23

Client ID: BFB Instrument: voa10.i

Sample Info: BFB;BFB;3;;BFB

Volume Injected (uL): 2.0 Operator: TS

Column phase: DB624 Column diameter: 0.25

Data File: F042412.D
Spectrum: Scan 2267 (9.08)
Location of Maximum: 95.10
Number of points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.20	286	57.10	1057	75.10	23072	103.90	182
37.10	2426	59.90	346	76.00	1897	116.90	153
38.10	1787	61.10	2336	78.10	282	117.80	159
39.10	722	62.00	1971	78.90	1055	129.70	176
40.10	173	63.00	1702	80.00	287	140.90	485
43.90	319	64.00	264	81.00	898	142.90	285
45.10	406	67.20	171	87.00	2113	174.00	43912
47.20	858	68.00	4436	88.00	2700	175.00	3659
48.00	362	69.10	4684	92.00	1244	176.00	42800
49.10	2216	70.00	272	93.10	1978	177.00	2874
50.10	8753	71.90	278	94.00	4524		
51.10	3147	73.00	2162	95.10	47200		
56.00	458	74.10	7379	96.10	3397		

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 1
Report Date: 05-Jun-2024 15:09

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 24-APR-2024 13:44
Operator : TS Inst ID: voa10.i
Smp Info : VSTD050;VSTD050;2;;ICV
Misc Info : V10;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa10.i\F240424.b\8260W.m
Meth Date : 05-Jun-2024 15:08 r.patel Quant Type: ISTD
Cal Date : 24-APR-2024 12:41 Cal File: F042410.D
Als bottle: 13 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_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	4.691	4.691	(1.000)	200931	50.0000	
2	Dichlorodifluoromethane	85	1.148	1.149	(0.245)	61914	49.8624	49.86
3	Chloromethane	50	1.295	1.295	(0.276)	97412	56.4242	56.42
4	Propionitrile	54	4.151	4.151	(0.885)	128344	546.324	546.32
5	Vinyl Chloride	62	1.355	1.351	(0.289)	87084	51.4411	51.44
6	Bromomethane	94	1.580	1.572	(0.337)	36373	47.4701	47.47
7	Chloroethane	64	1.658	1.655	(0.354)	53611	52.3562	52.35
8	Trichlorofluoromethane	101	1.853	1.850	(0.395)	103874	49.8018	49.80
9	Acrolein	56	3.169	3.169	(0.676)	62449	112.337	112.33
10	Acetone	43	2.314	2.314	(0.493)	58352	114.812	114.81
11	1,1-Dichloroethene	96	2.266	2.266	(0.483)	66841	48.0813	48.08
12	Isobutyl Alcohol	43	5.160	5.160	(1.100)	277600	1143.19	1143.18
13	Acetonitrile	39	2.584	2.584	(0.551)	99757	416.660	416.65
14	Allyl Chloride	41	2.584	2.584	(0.551)	242000	57.0856	57.08(M)
15	Iodomethane	142	2.393	2.386	(0.510)	106794	81.6624	81.66
16	Acrylonitrile	53	2.929	2.933	(0.624)	73781	118.795	118.79(M)
17	Methylene Chloride	84	2.697	2.697	(0.575)	78447	49.8311	49.83
18	Methyl tert-butyl ether	73	2.978	2.978	(0.635)	275778	59.4353	59.43(M)
19	Carbon Disulfide	76	2.449	2.449	(0.522)	430298	104.845	104.84
20	trans-1,2-Dichloroethene	96	2.963	2.963	(0.632)	82587	59.2504	59.25

21 Vinyl Acetate	43	4.189	4.193 (0.893)	100385	112.475	112.47
22 1,1-Dichloroethane	63	3.394	3.394 (0.724)	140206	52.8272	52.82

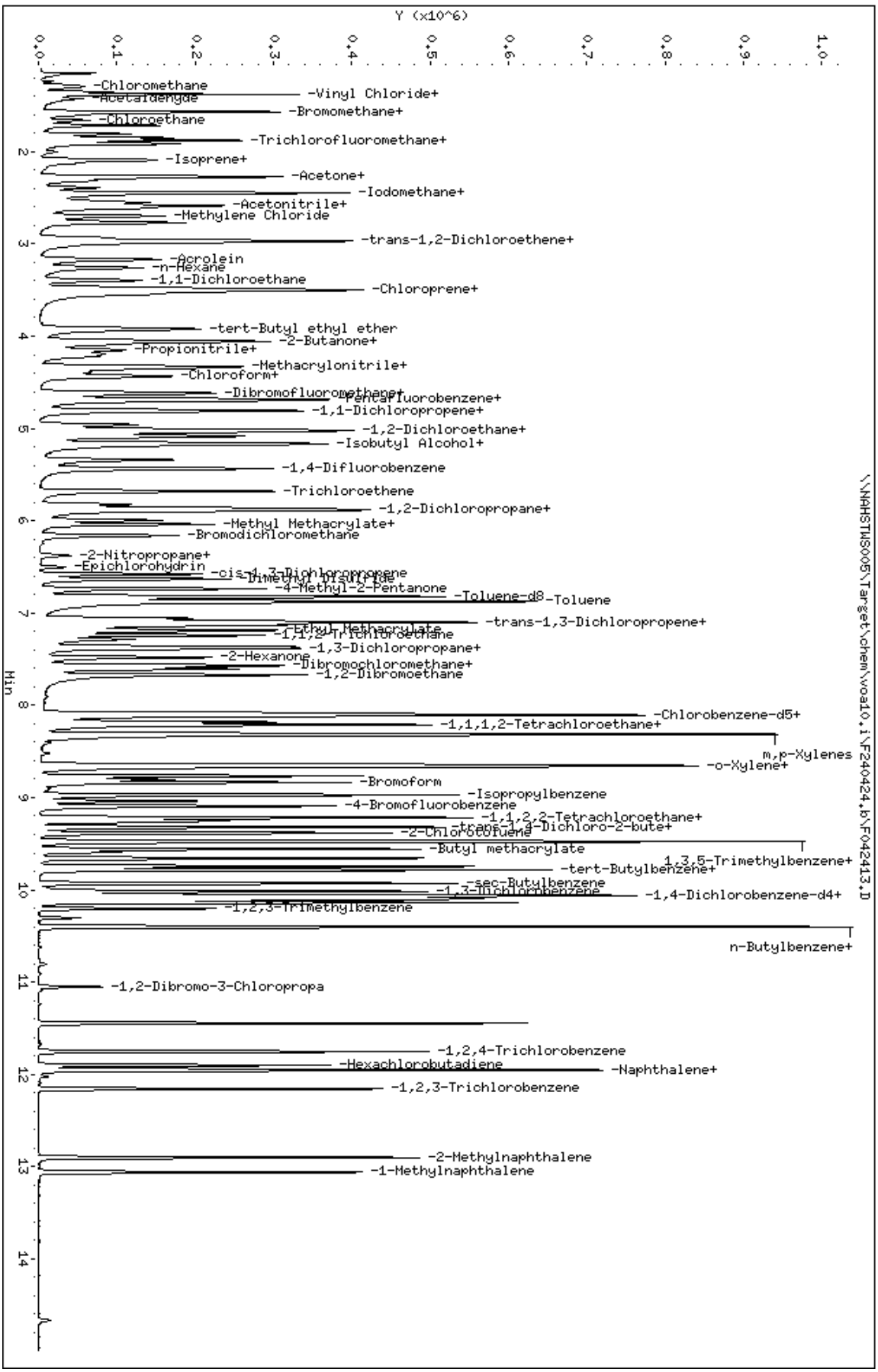
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.499	3.495	(0.746)	118204	50.0972	50.09
	24 2-Butanone	43	4.095	4.095	(0.873)	76070	104.502	104.50
	25 Methacrylonitrile	41	4.331	4.331	(0.923)	76142	54.7001	54.70
	26 2,2-Dichloropropane	77	4.054	4.054	(0.864)	103547	47.7058	47.70
	27 cis-1,2-Dichloroethene	96	4.057	4.058	(0.865)	81972	50.8478	50.84
	28 Chloroform	83	4.436	4.432	(0.946)	132686	50.8513	50.85
	29 Bromochloromethane	128	4.327	4.328	(0.922)	41038	51.8149	51.81
$	30 Dibromofluoromethane	113	4.608	4.609	(0.982)	72647	48.3853	48.38
	31 1,1,1-Trichloroethane	97	4.623	4.627	(0.986)	112668	48.8194	48.81
	32 1,1-Dichloropropene	75	4.811	4.807	(0.885)	103566	47.0765	47.07
	33 1,2-Dichloroethane	62	5.040	5.040	(0.927)	104700	50.8027	50.80
	34 Carbon Tetrachloride	117	4.803	4.804	(0.883)	96110	50.8825	50.88
$	35 1,2-Dichloroethane-d4	65	4.961	4.961	(1.058)	85813	48.9304	48.93
*	36 1,4-Difluorobenzene	114	5.437	5.433	(1.000)	260936	50.0000	
	37 Benzene	78	5.021	5.021	(0.923)	321986	51.1920	51.19
	38 Trichloroethene	130	5.681	5.677	(1.045)	85884	48.3652	48.36
	39 Bromodichloromethane	83	6.157	6.157	(1.132)	100667	53.8992	53.89
	40 Methyl Methacrylate	41	6.040	6.041	(1.288)	91099	54.5516	54.55
	41 2-Chloroethylvinyl ether	63	6.438	6.442	(1.184)	3928	119.878	119.87(M)
	42 1,2-Dichloropropane	63	5.890	5.887	(1.083)	86774	53.4458	53.44
	43 2-Nitropropane	43	6.374	6.378	(1.359)	25230	50.4504	50.45
	44 Dibromomethane	93	5.992	5.992	(1.102)	46904	52.1949	52.19
	45 4-Methyl-2-Pentanone	43	6.734	6.738	(0.833)	200807	114.265	114.26
	46 cis-1,3-Dichloropropene	75	6.580	6.577	(1.210)	108732	53.3819	53.38
*	47 Chlorobenzene-d5	117	8.083	8.084	(1.000)	227447	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	295497	49.8645	49.86
	49 Ethyl Methacrylate	69	7.191	7.191	(1.323)	138705	58.3611	58.36
	50 Toluene	91	6.880	6.880	(0.851)	338094	50.8410	50.84
	51 trans-1,3-Dichloropropene	75	7.083	7.083	(1.303)	88036	47.8690	47.86
	52 2-Hexanone	43	7.480	7.480	(0.925)	137452	102.777	102.77
	53 1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	62098	52.5886	52.58
	54 1,3-Dichloropropane	76	7.386	7.386	(0.914)	122866	50.3000	50.29
	55 Dibromochloromethane	129	7.577	7.578	(0.937)	80044	53.4691	53.46
	56 Tetrachloroethene	164	7.364	7.364	(0.911)	71856	52.2646	52.26
	57 1,2-Dibromoethane	107	7.671	7.671	(0.949)	53671	45.7439	45.74
	58 1-Chlorohexane	55	8.106	8.106	(1.491)	76580	51.8743	51.87
	59 Chlorobenzene	112	8.110	8.106	(1.003)	217738	49.8025	49.80
	60 1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	73931	52.7726	52.77
	61 Ethylbenzene	106	8.211	8.211	(1.016)	112833	51.4620	51.46
	62 m,p-Xylenes	106	8.316	8.316	(1.029)	283213	102.794	102.79
	63 o-Xylene	106	8.649	8.650	(1.070)	139488	50.9497	50.94
	64 Styrene	104	8.664	8.661	(1.072)	238941	53.4034	53.40
	66 Bromoform	173	8.807	8.811	(1.089)	61948	48.1223	48.12
	67 Isopropylbenzene	105	8.972	8.968	(1.110)	341868	53.1166	53.11
	68 1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	102155	55.6949	55.69
$	69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	111211	54.2404	54.24
*	70 1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	115508	50.0000	
	71 1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	100149	54.2236	54.22
	72 trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	17102	47.9938	47.99
	73 n-Propylbenzene	91	9.321	9.321	(0.926)	374132	55.7369	55.73
	74 Bromobenzene	156	9.216	9.216	(0.915)	98943	51.5141	51.51
	75 1,3,5-Trimethylbenzene	105	9.470	9.471	(0.940)	281880	54.7880	54.78

76	2-Chlorotoluene	91	9.384	9.384 (0.932)	233452	53.2705	53.27
77	4-Chlorotoluene	91	9.478	9.478 (0.941)	266581	53.4726	53.47

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
78	tert-Butylbenzene	119	9.744	9.744	(0.968)	244789	58.6362	58.63
79	1,2,4-Trimethylbenzene	105	9.785	9.786	(0.972)	291985	56.4908	56.49
81	sec-Butylbenzene	105	9.932	9.932	(0.986)	322651	59.1647	59.16
82	p-Isopropyltoluene	119	10.055	10.055	(0.999)	288067	56.5419	56.54
83	1,3-Dichlorobenzene	146	10.018	10.014	(0.995)	179232	53.6320	53.63
84	1,4-Dichlorobenzene	146	10.089	10.089	(1.002)	174340	49.7895	49.78
87	n-Butylbenzene	91	10.400	10.400	(1.033)	254927	57.8328	57.83
88	1,2-Dichlorobenzene	146	10.404	10.400	(1.033)	173944	51.6277	51.62
89	1,2-Dibromo-3-Chloropropane	155	11.052	11.053	(1.098)	15727	54.6045	54.60
90	1,2,4-Trichlorobenzene	180	11.753	11.754	(1.167)	137470	55.9037	55.90
91	Hexachlorobutadiene	225	11.903	11.904	(1.182)	66814	51.2946	51.29
92	Naphthalene	128	11.956	11.956	(1.187)	324874	52.5535	52.55
93	1,2,3-Trichlorobenzene	180	12.158	12.158	(1.207)	123787	55.0550	55.05
135	1,4-Dioxane	88	6.040	6.041	(1.288)	24517	995.754	995.75
130	Ethyl Acetate	43	4.189	4.193	(0.893)	100385	55.6664	55.66
136	n-Hexane	57	3.259	3.259	(0.695)	78394	47.2053	47.20
138	Freon TF	101	2.277	2.277	(0.485)	67507	47.9386	47.93
141	Cyclohexane	56	4.683	4.684	(0.998)	112076	50.5978	50.59
142	Tetrahydrofuran	42	4.395	4.395	(0.937)	33659	111.311	111.31
146	Methyl Acetate	43	2.610	2.614	(0.557)	131610	53.9460	53.94
147	Methylcyclohexane	55	5.861	5.861	(1.078)	129098	51.7782	51.77
149	Isopropyl alcohol	45	2.449	2.449	(0.522)	132627	1166.35	1166.34
151	4-Methyl-2-pentanol	45	7.101	7.102	(1.306)	593173	925.375	925.37
156	Diisopropyl ether	45	3.503	3.507	(0.747)	293834	54.6491	54.64
158	Dichlorofluoromethane	67	1.808	1.805	(0.386)	123171	54.2478	54.24
166	1,2,3-Trimethylbenzene	105	10.138	10.138	(1.007)	277743	54.3101	54.31
160	2-Methylnaphthalene	142	12.900	12.901	(1.281)	192205	50.5568	50.55
180	1-Methylnaphthalene	142	13.058	13.062	(1.297)	170295	52.5772	52.57
174	tert-Amyl methyl ether	73	5.171	5.171	(1.102)	258439	56.6344	56.63
175	tert-Butyl ethyl ether	59	3.922	3.923	(0.836)	256874	54.6735	54.67
140	1,3-Butadiene	54	1.377	1.377	(0.294)	88635	52.8122	52.81
189	n-Butyl acetate	43	7.607	7.608	(0.941)	165930	57.6659	57.66
86	Benzyl Chloride	91	10.400	10.400	(1.287)	254927	53.7403	53.74
178	Ethylene oxide	44	1.568	1.565	(0.334)	287177	117.031	117.03(M)
182	Epichlorohydrin	57	6.502	6.502	(1.196)	27370	206.633	206.63
185	Isoprene	39	2.101	2.097	(0.448)	25587	56.6896	56.68
150	Allyl alcohol	57	3.480	3.492	(0.742)	35176	1003.44	1003.44
162	Butyl acrylate	55	8.638	8.638	(1.069)	201594	51.4209	51.42
194	Acetaldehyde	44	1.426	1.426	(0.304)	44223	197.341	197.34(M)
131	Methyl Acrylate	55	4.219	4.219	(0.899)	78898	51.8506	51.85
133	Ethyl Acrylate	55	5.823	5.823	(1.241)	104182	55.3837	55.38
203	2-Ethylhexyl Acrylate	55	11.945	11.945	(1.186)	111554	52.9986	52.99(A)
204	2-Chloropropene	41	1.879	1.876	(0.401)	113969	56.2577	56.25(A)
163	Butyl methacrylate	41	9.557	9.557	(0.949)	134868	55.4484	55.44
167	Ethanol	45	2.003	2.007	(0.427)	22753	1125.37	1125.36
200	Dimethyl Disulfide	94	6.633	6.633	(0.821)	118862	50.6972	50.69
M 94	1,2-Dichloroethylene (total)	96				164559	110.098	110.09
M 95	Xylenes (total)	106				422701	153.743	153.74

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.
M - Compound response manually integrated.



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Date : 24-APR-2024 13:44
Client ID: VSTD050
Sample Info: VSTD050;VSTD050;2;;ICV
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: TS
Column diameter: 0.18

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 2

Date : 24-APR-2024 13:44

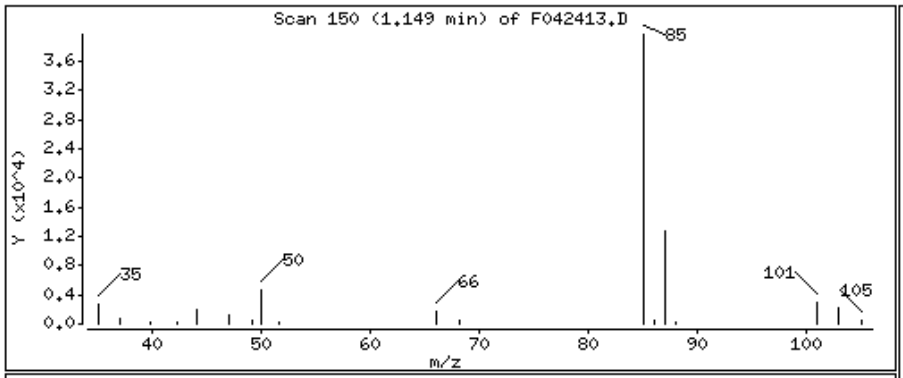
Client ID: VSTD050 Instrument: voa10.i

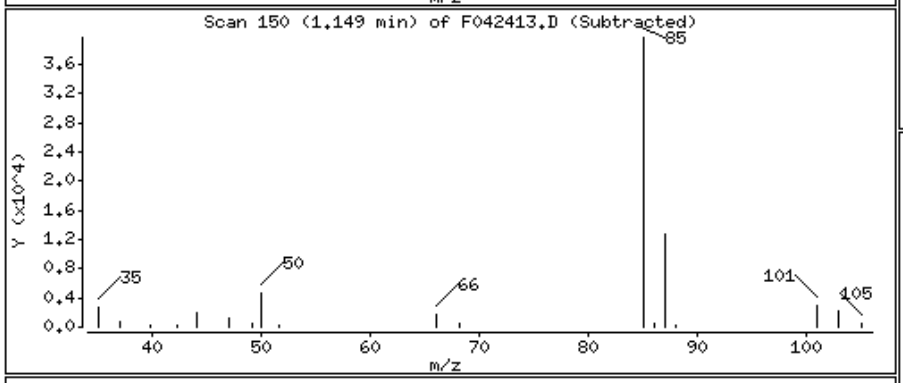
Sample Info: VSTD050;VSTD050;2;;ICV

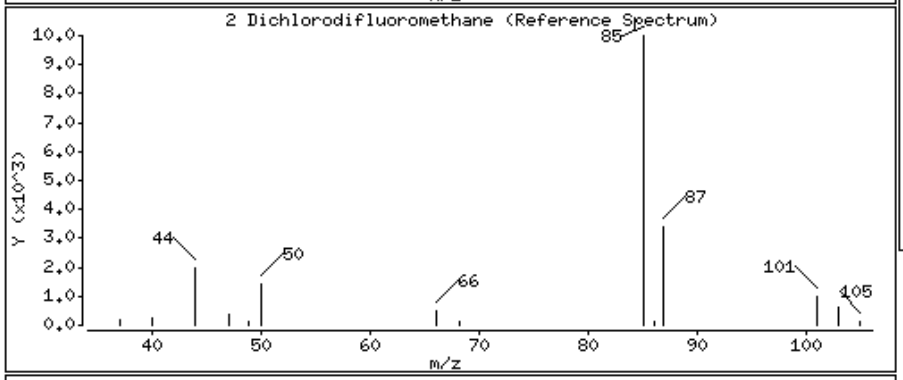
Purge Volume: 5.0 Operator: TS

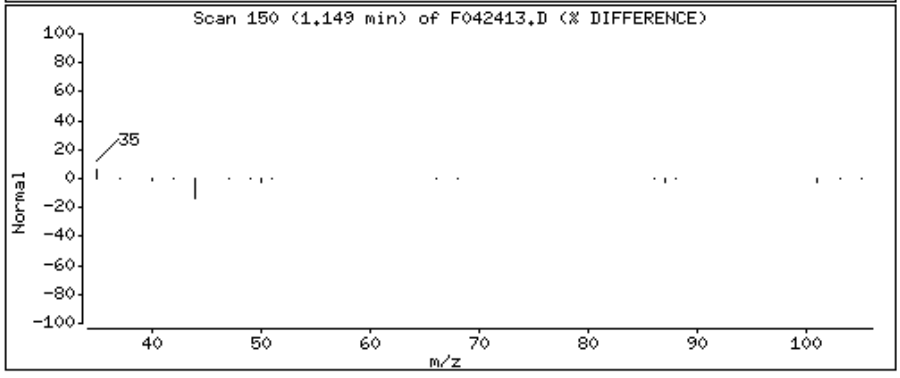
Column phase: DB624 Column diameter: 0.18

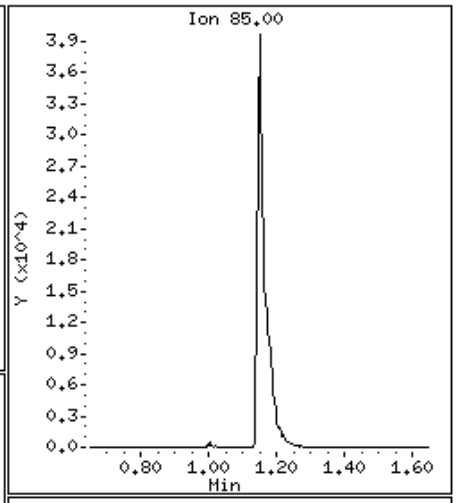
2 Dichlorodifluoromethane Concentration: 49.86 ug/l

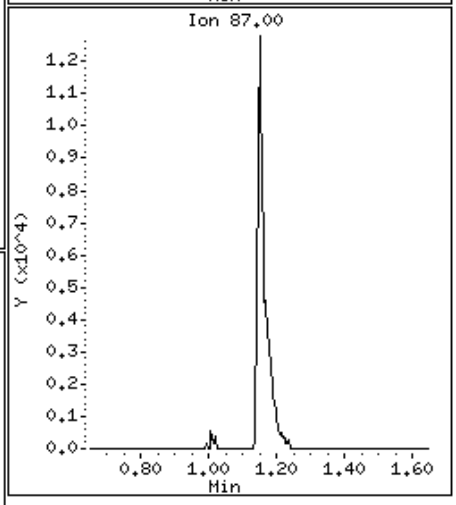












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 3

Date : 24-APR-2024 13:44

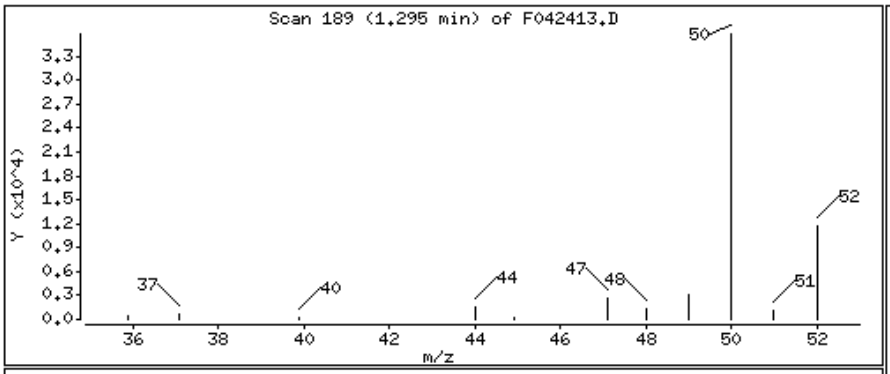
Client ID: VSTD050 Instrument: voa10.i

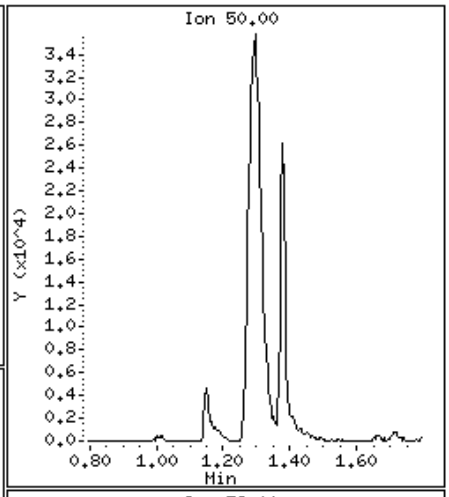
Sample Info: VSTD050;VSTD050;2;;ICV

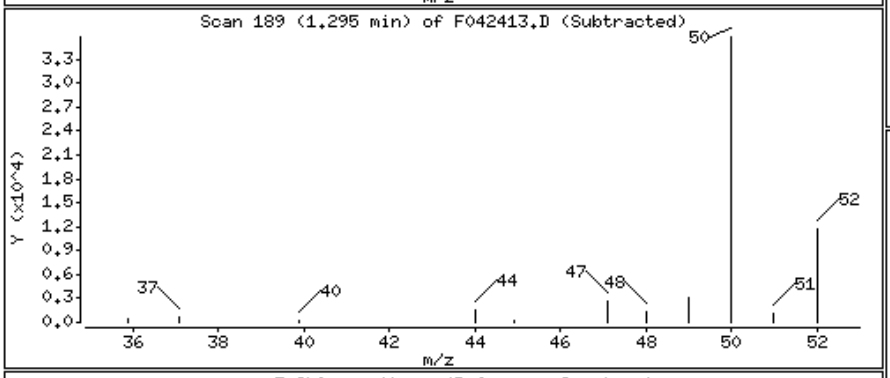
Purge Volume: 5.0 Operator: TS

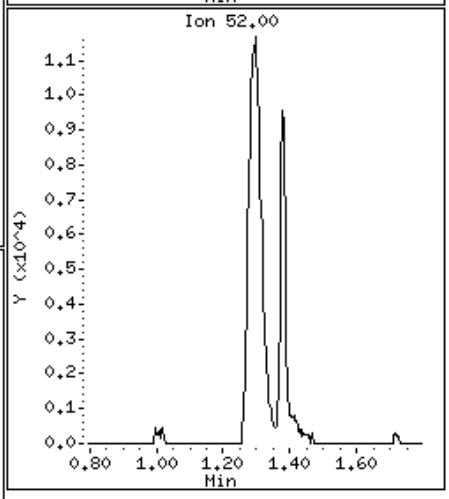
Column phase: DB624 Column diameter: 0.18

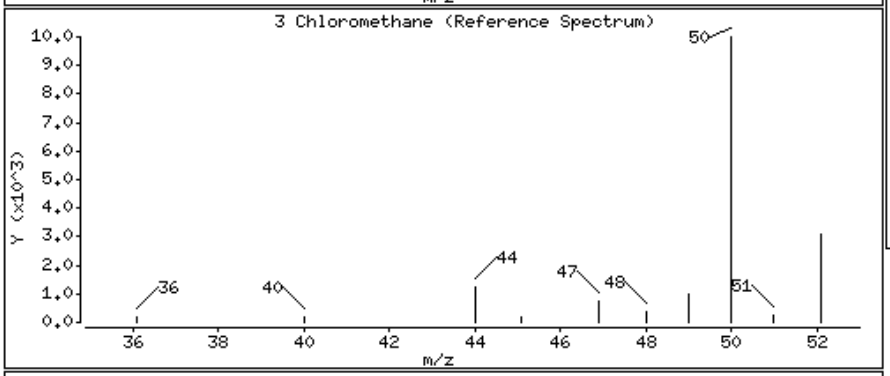
3 Chloromethane Concentration: 56.42 ug/l

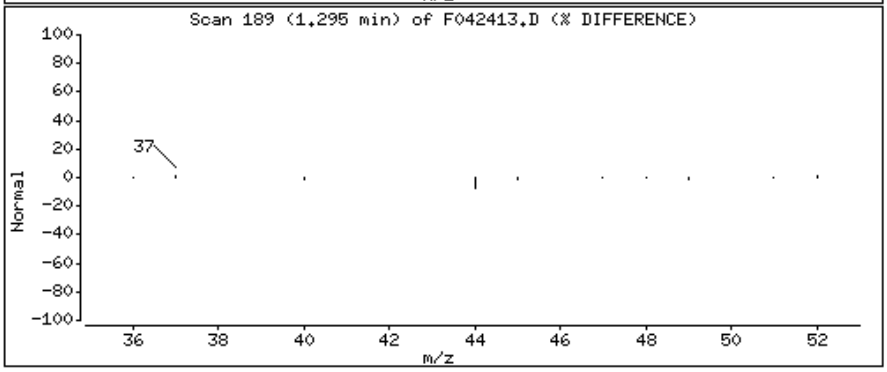












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Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

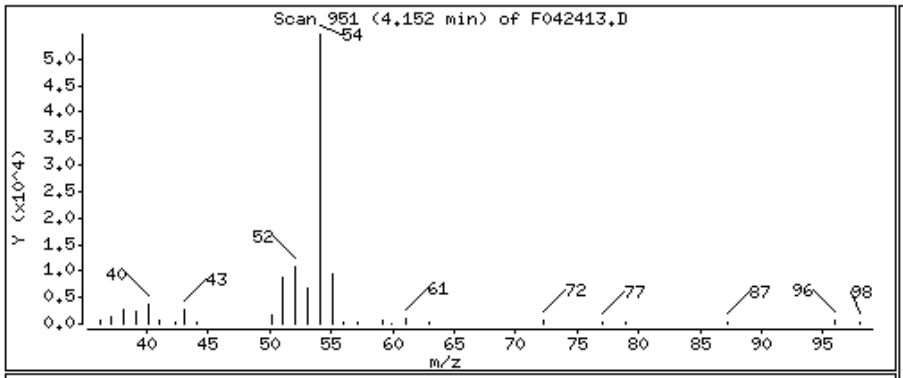
Operator: TS

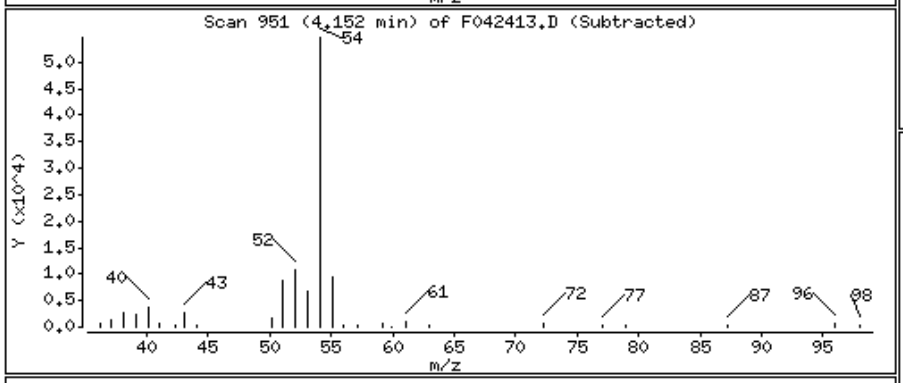
Column phase: DB624

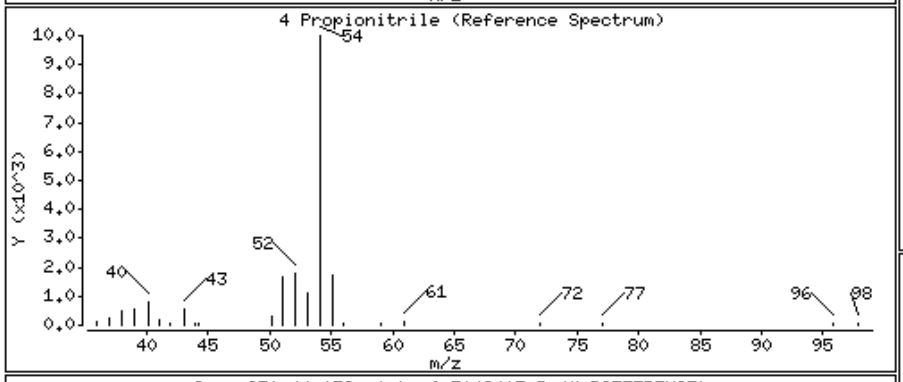
Column diameter: 0.18

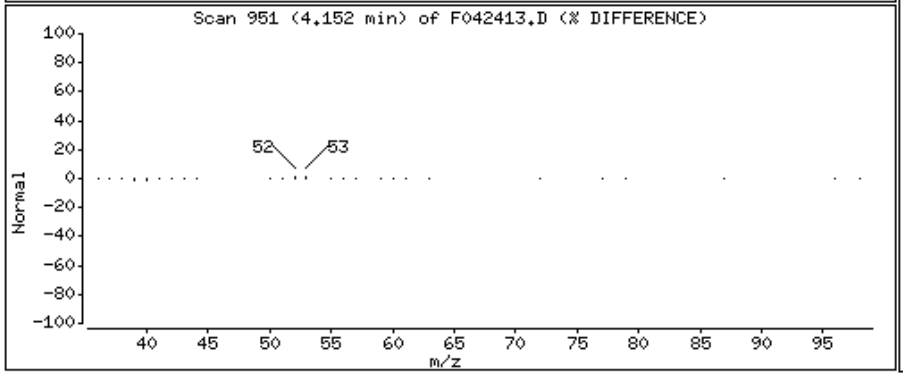
4 Propionitrile

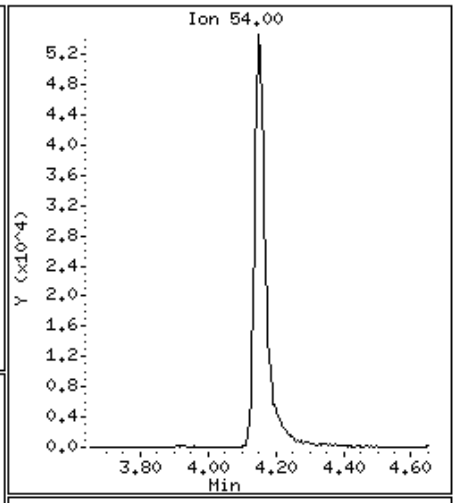
Concentration: 546.32 ug/l

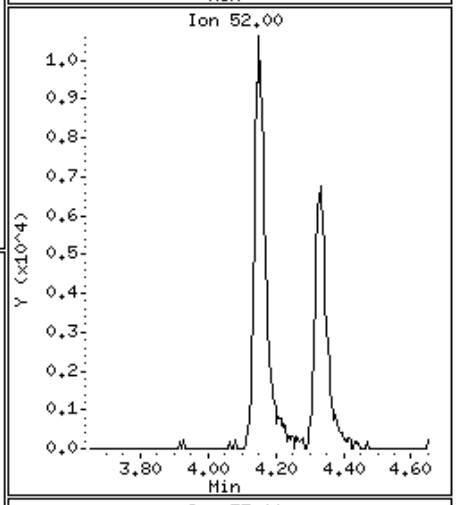


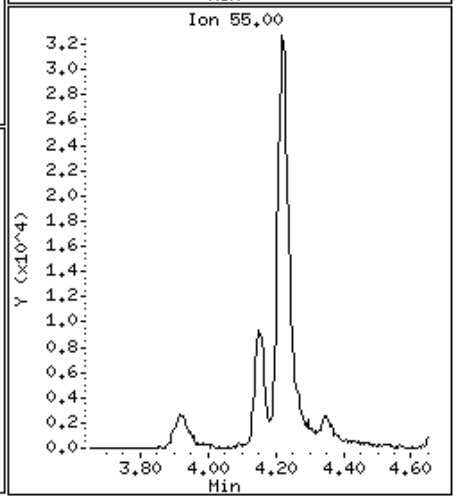












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 5

Date : 24-APR-2024 13:44

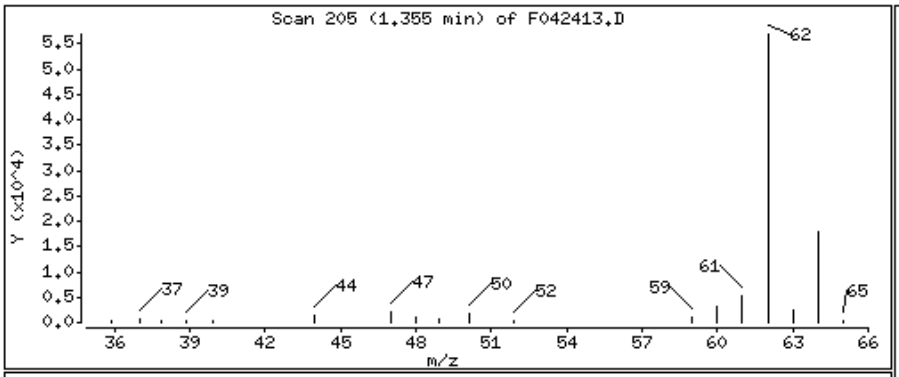
Client ID: VSTD050 Instrument: voa10.i

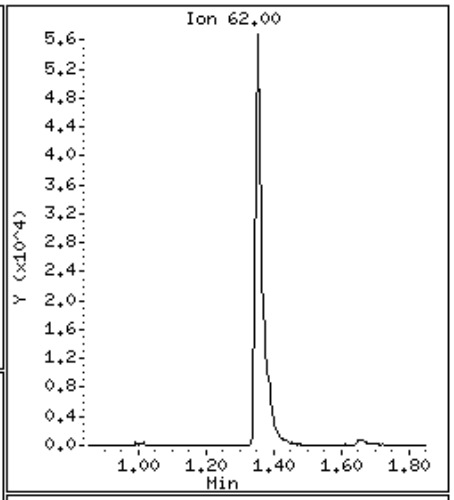
Sample Info: VSTD050;VSTD050;2;;ICV

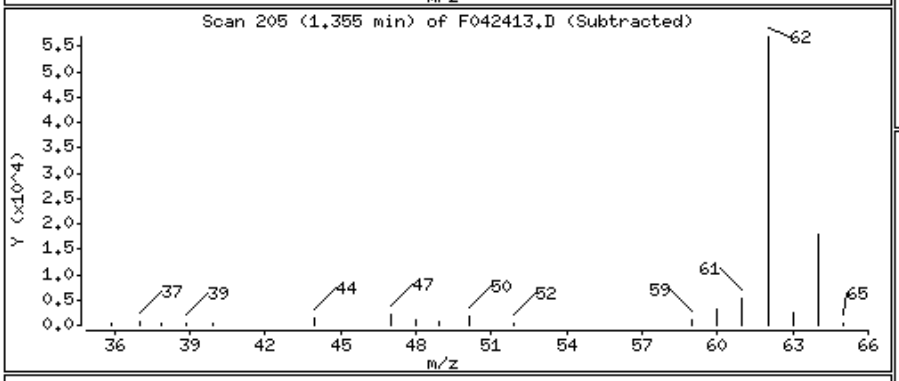
Purge Volume: 5.0 Operator: TS

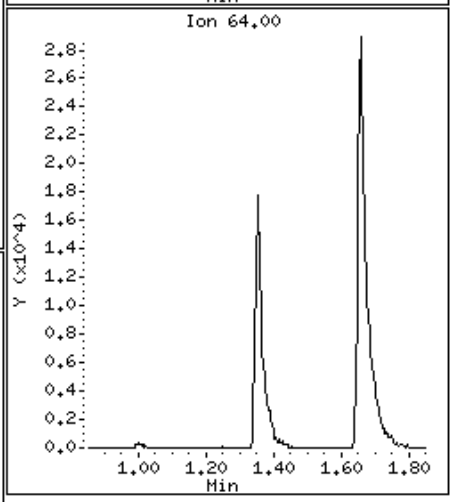
Column phase: DB624 Column diameter: 0.18

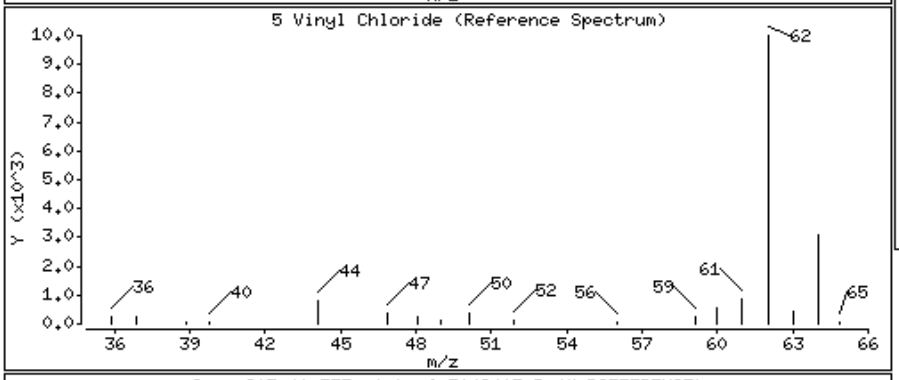
5 Vinyl Chloride Concentration: 51.44 ug/l

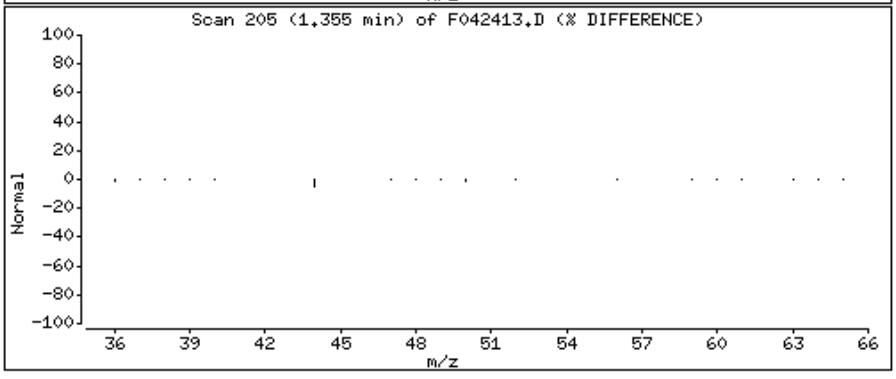












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 6

Date : 24-APR-2024 13:44

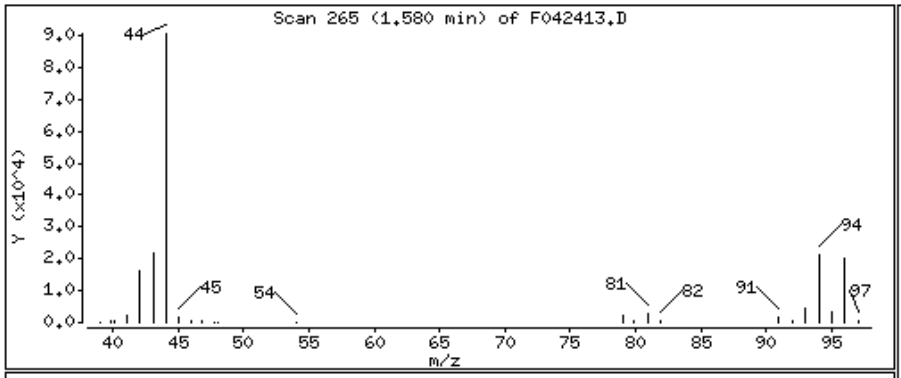
Client ID: VSTD050 Instrument: voa10.i

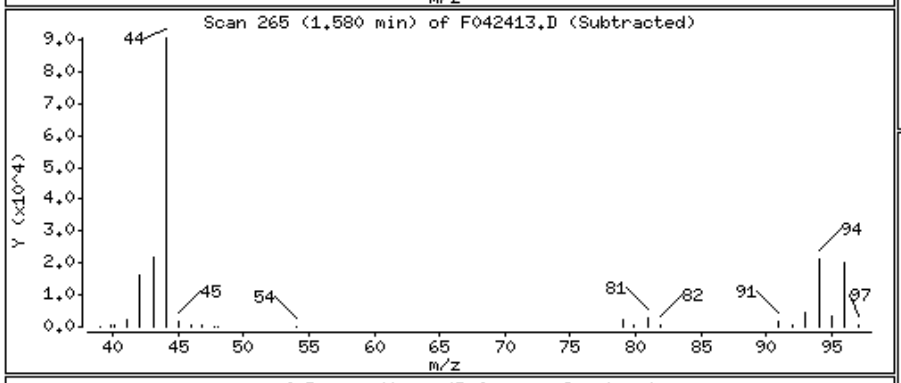
Sample Info: VSTD050;VSTD050;2;;ICV

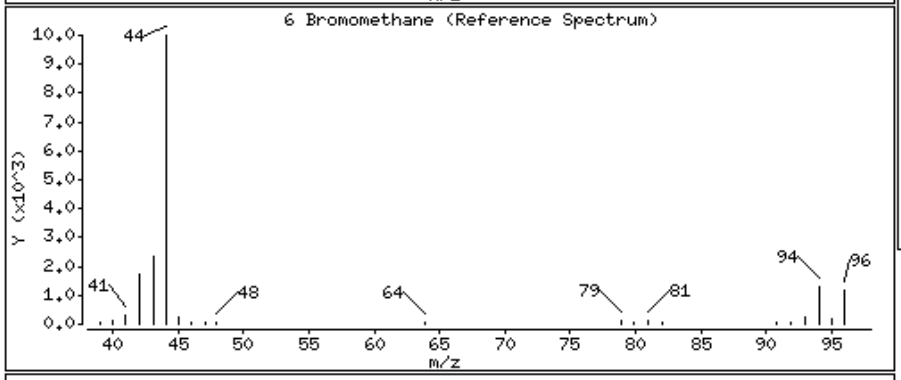
Purge Volume: 5.0 Operator: TS

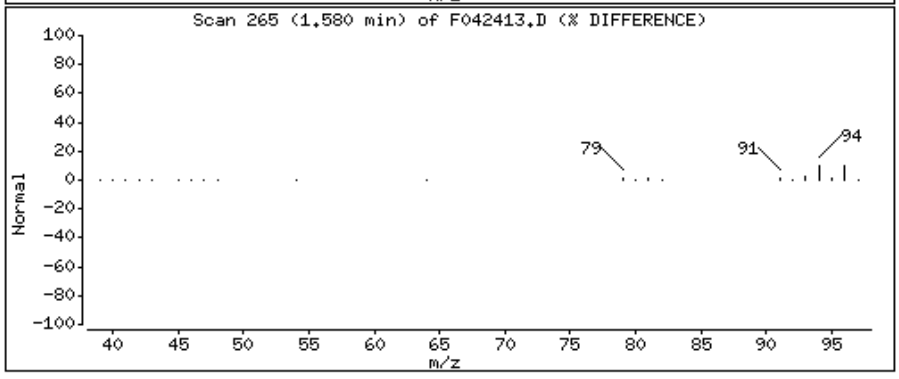
Column phase: DB624 Column diameter: 0.18

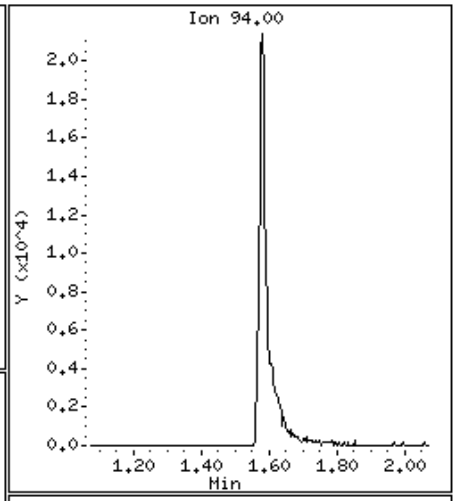
6 Bromomethane Concentration: 47.47 ug/l

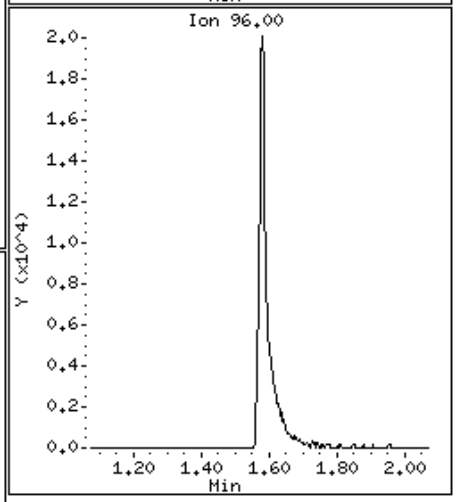












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 7

Date : 24-APR-2024 13:44

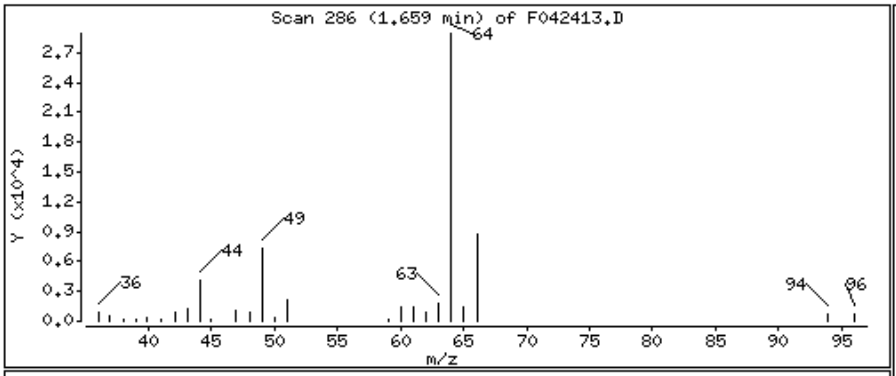
Client ID: VSTD050 Instrument: voa10.i

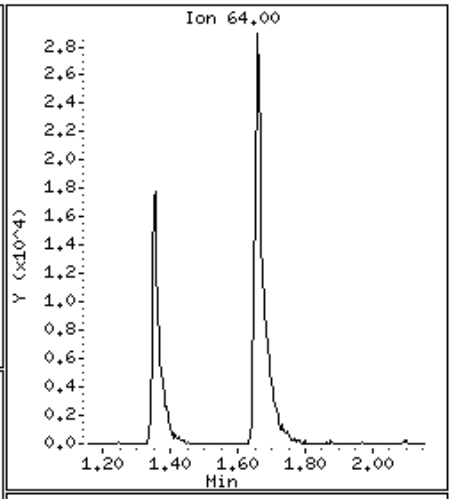
Sample Info: VSTD050;VSTD050;2;;ICV

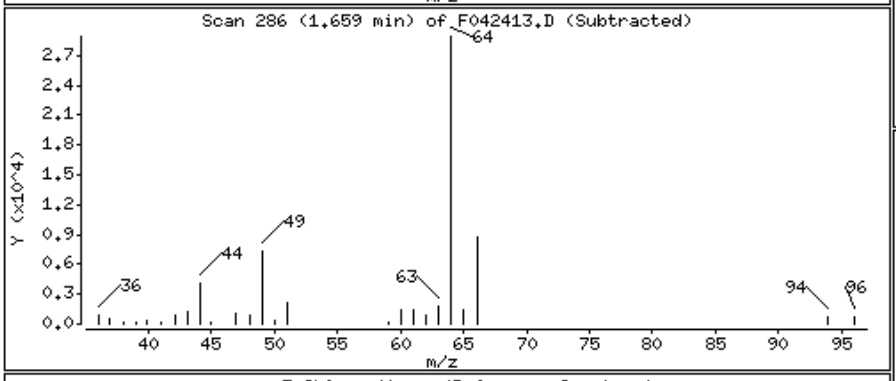
Purge Volume: 5.0 Operator: TS

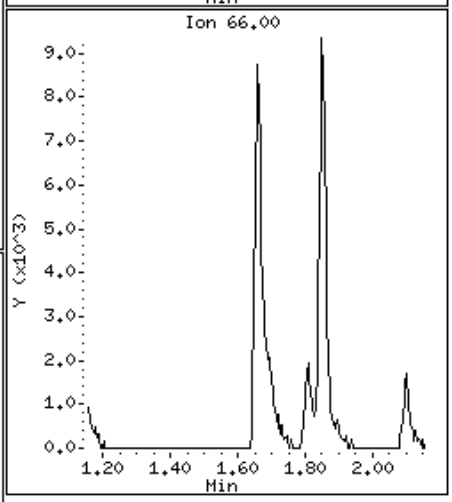
Column phase: DB624 Column diameter: 0.18

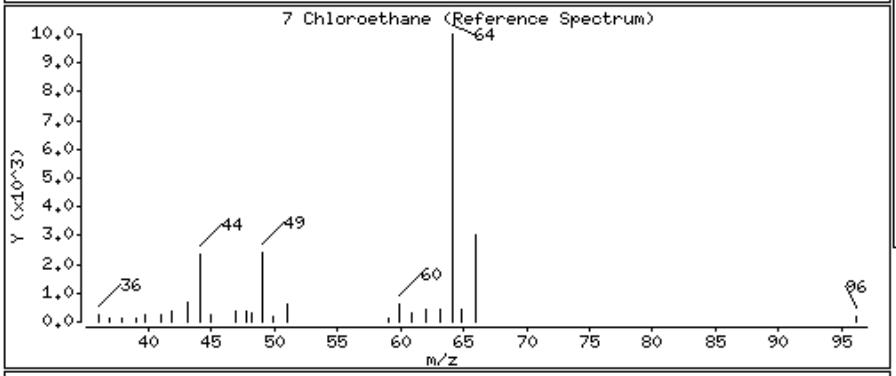
7 Chloroethane Concentration: 52.35 ug/l

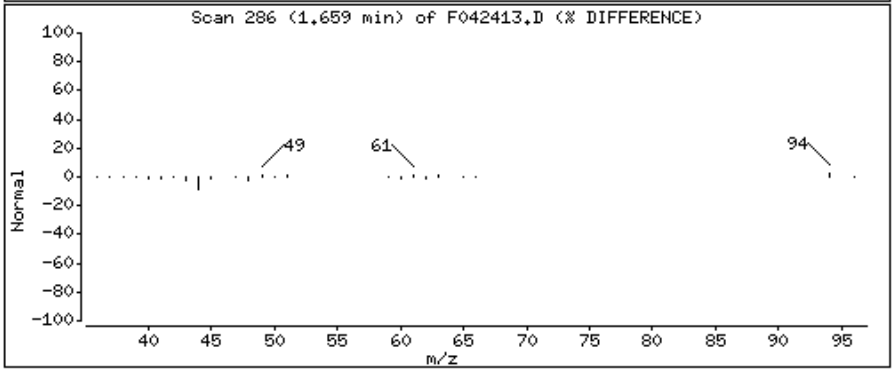












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

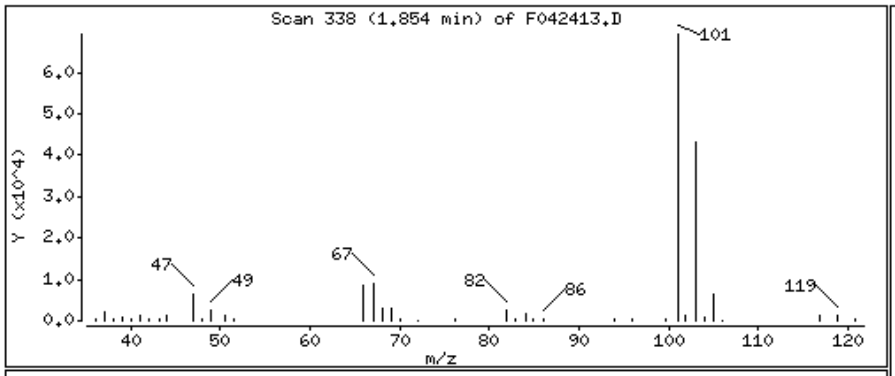
Operator: TS

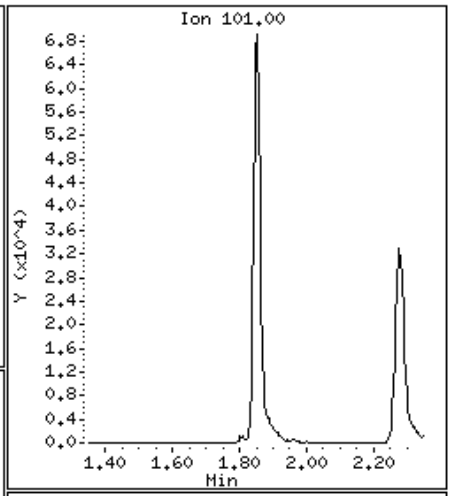
Column phase: DB624

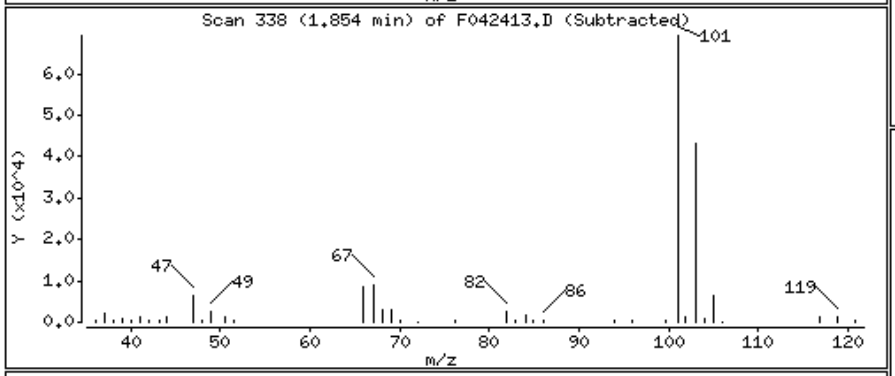
Column diameter: 0.18

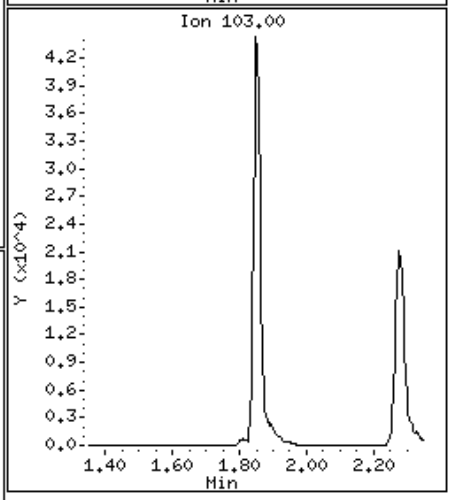
8 Trichlorofluoromethane

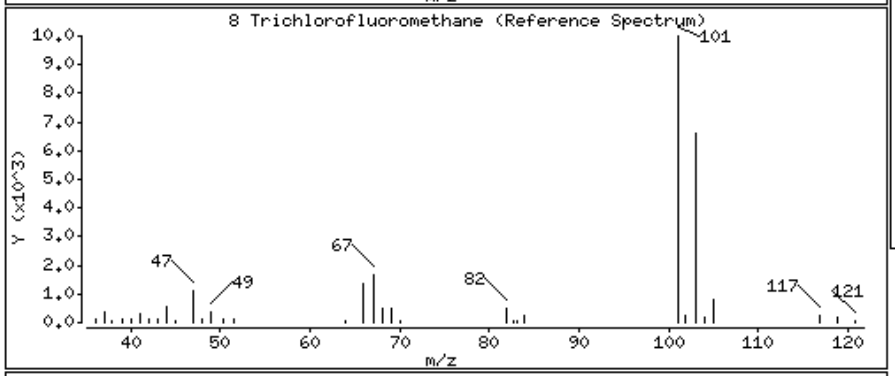
Concentration: 49.80 ug/l

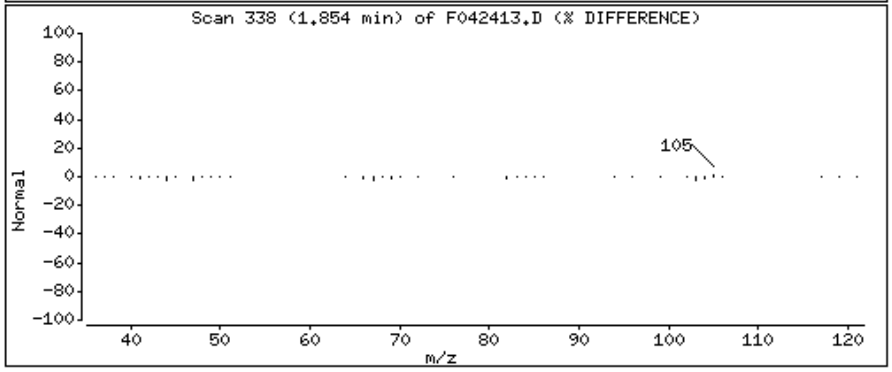












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 9

Date : 24-APR-2024 13:44

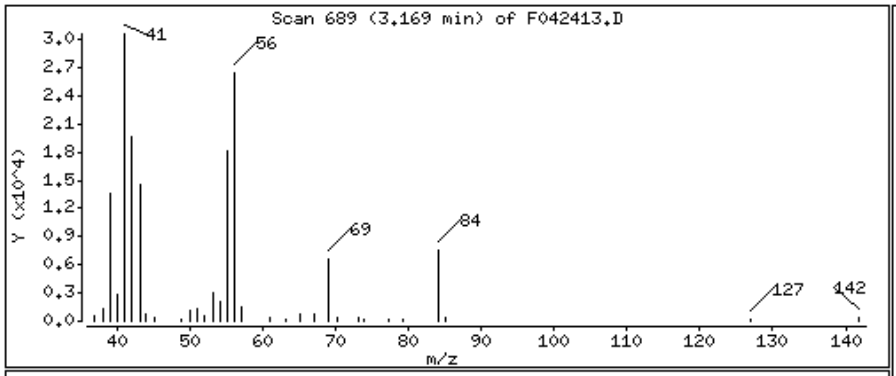
Client ID: VSTD050 Instrument: voa10.i

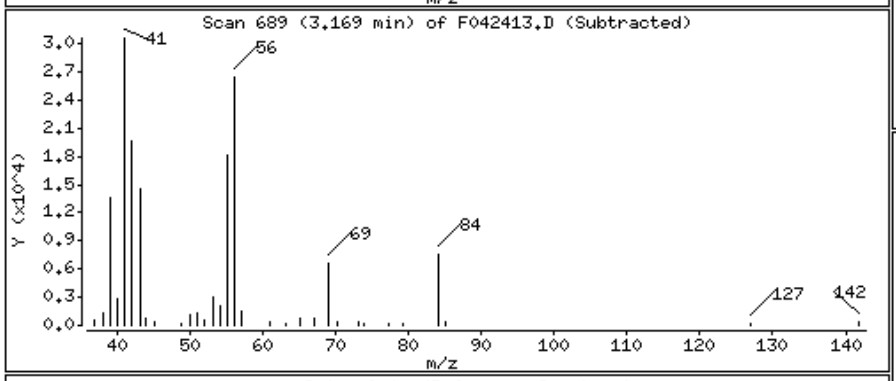
Sample Info: VSTD050;VSTD050;2;;ICV

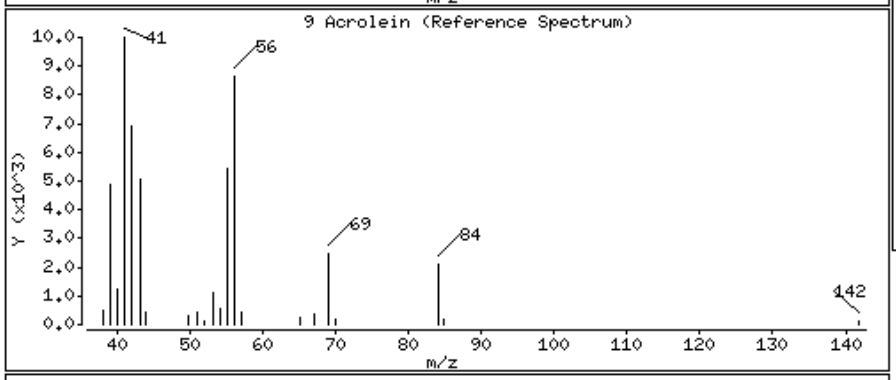
Purge Volume: 5.0 Operator: TS

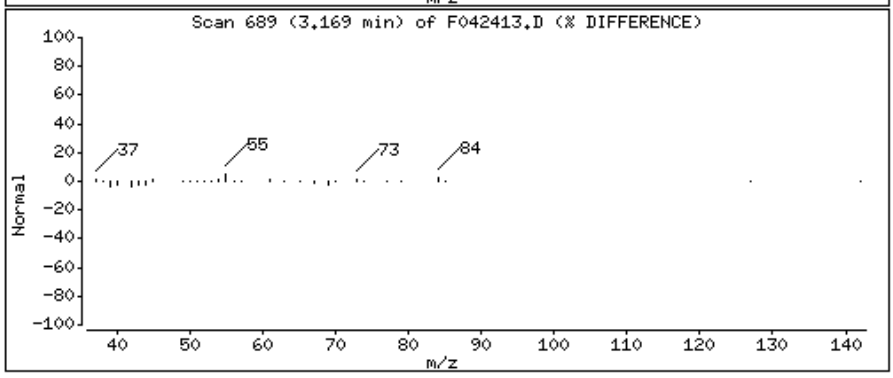
Column phase: DB624 Column diameter: 0.18

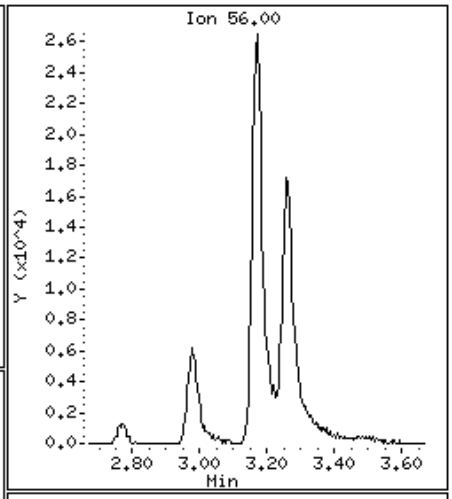
9 Acrolein Concentration: 112.33 ug/l

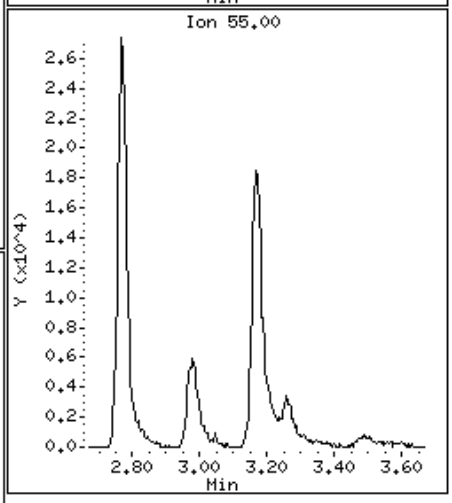












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 10

Date : 24-APR-2024 13:44

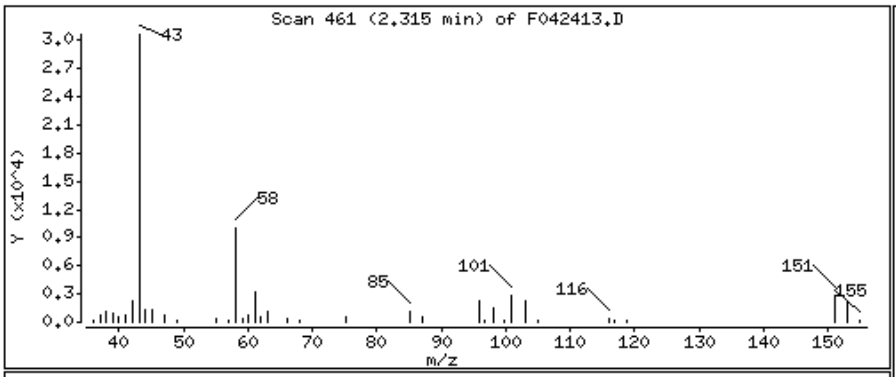
Client ID: VSTD050 Instrument: voa10.i

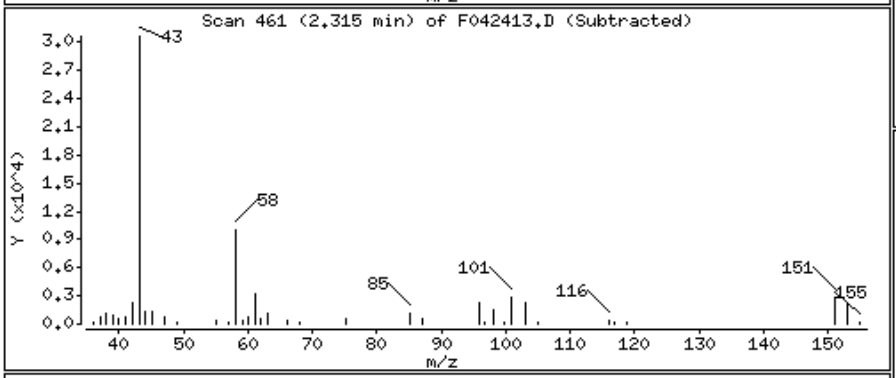
Sample Info: VSTD050;VSTD050;2;;ICV

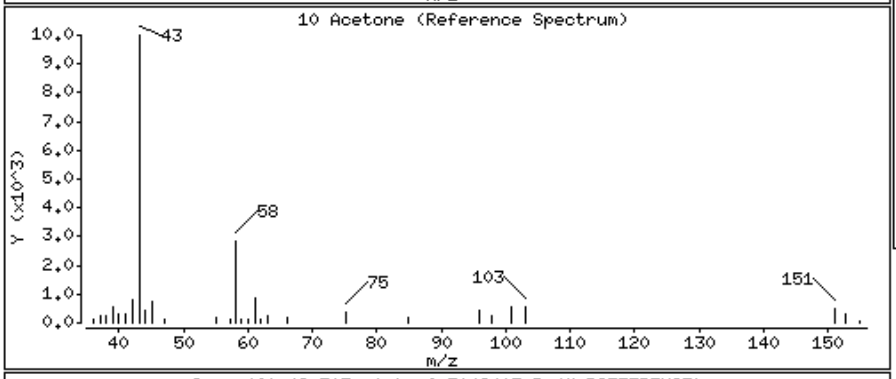
Purge Volume: 5.0 Operator: TS

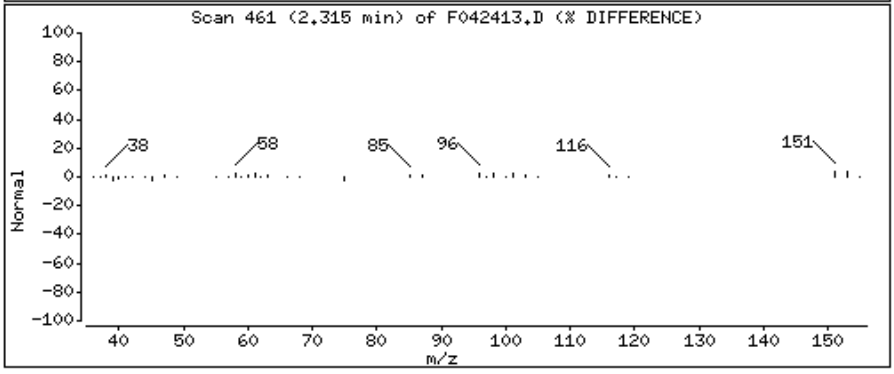
Column phase: DB624 Column diameter: 0.18

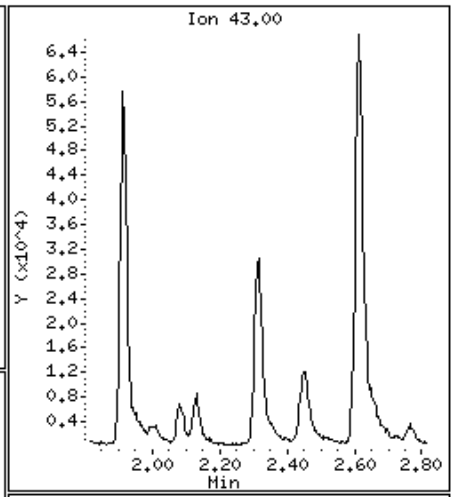
10 Acetone Concentration: 114.81 ug/l

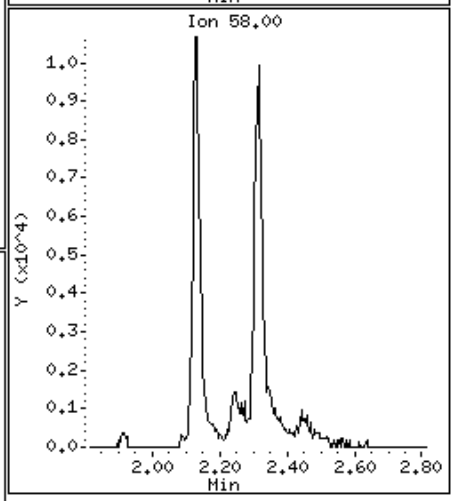












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 11

Date : 24-APR-2024 13:44

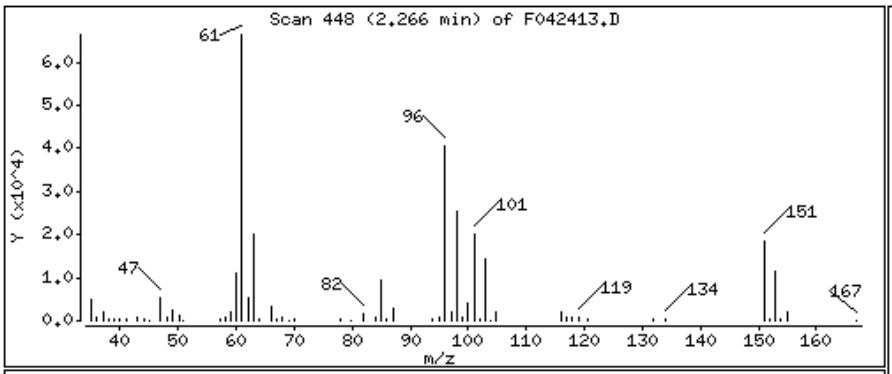
Client ID: VSTD050 Instrument: voa10.i

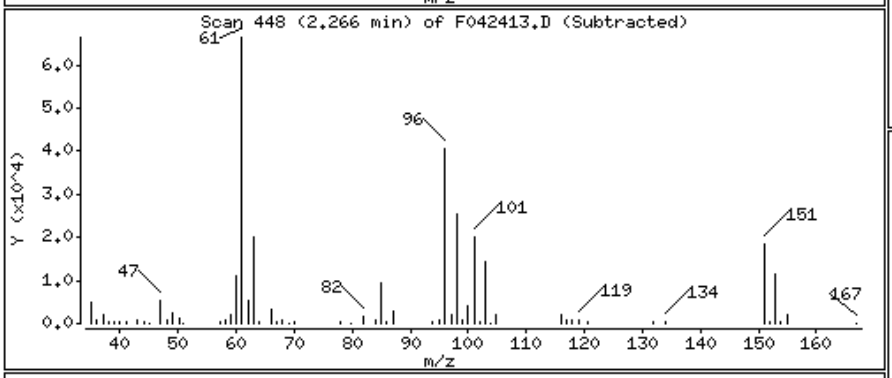
Sample Info: VSTD050;VSTD050;2;;ICV

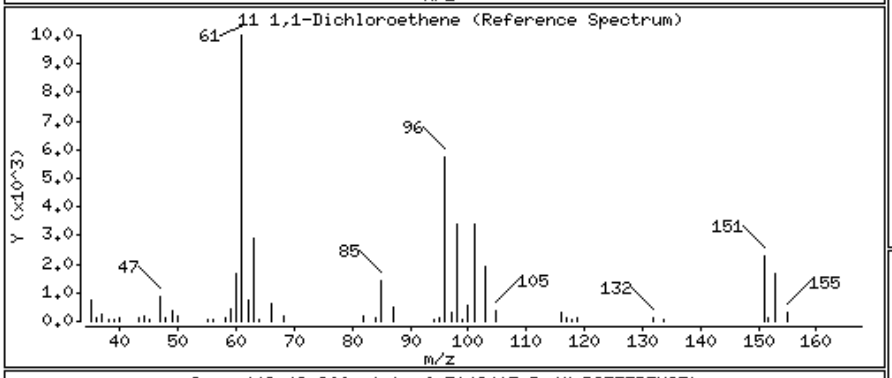
Purge Volume: 5.0 Operator: TS

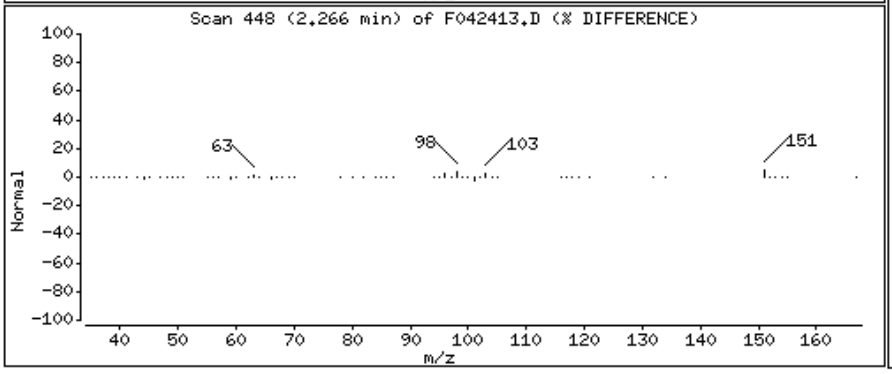
Column phase: DB624 Column diameter: 0.18

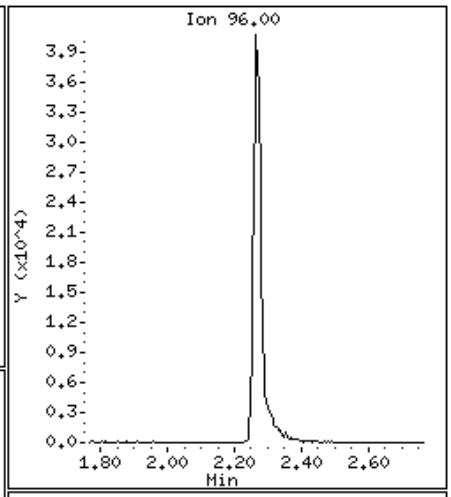
11 1,1-Dichloroethene Concentration: 48.08 ug/l

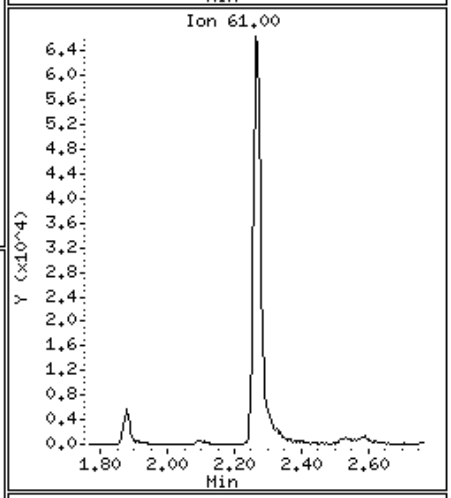


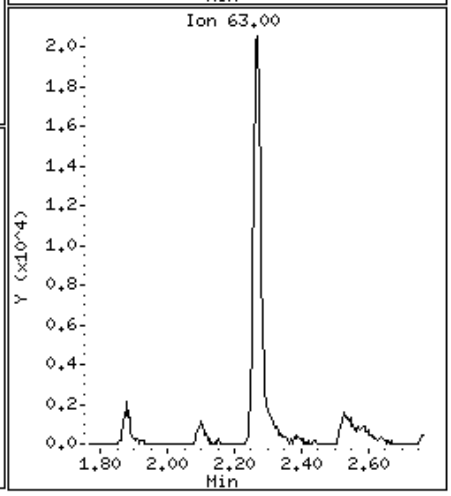












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

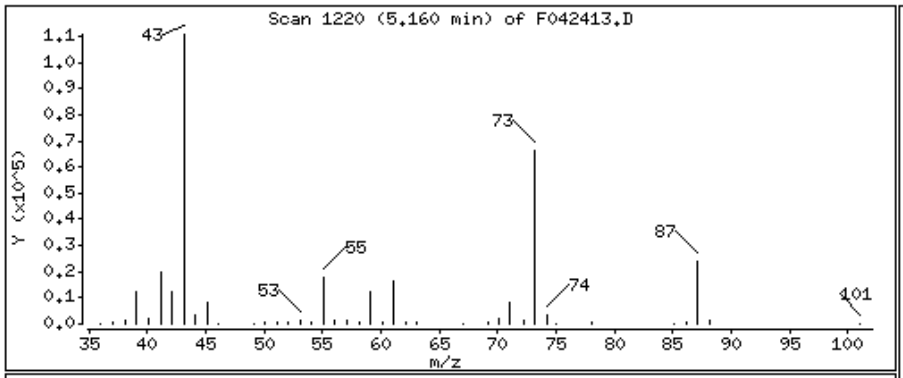
Client ID: VSTD050 Instrument: voa10.i

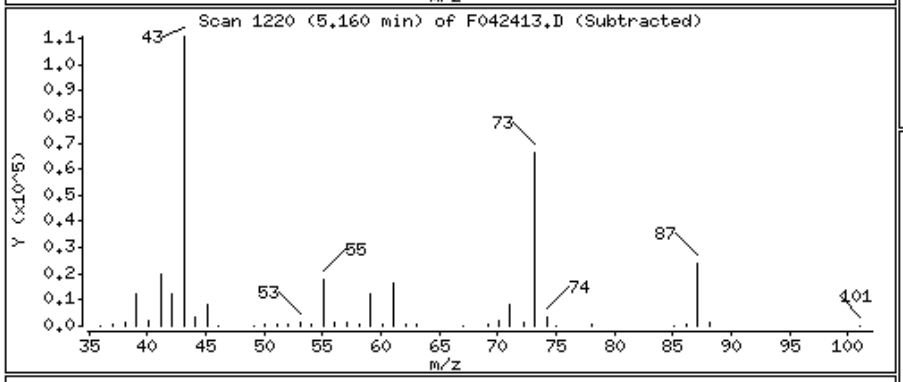
Sample Info: VSTD050;VSTD050;2;;ICV

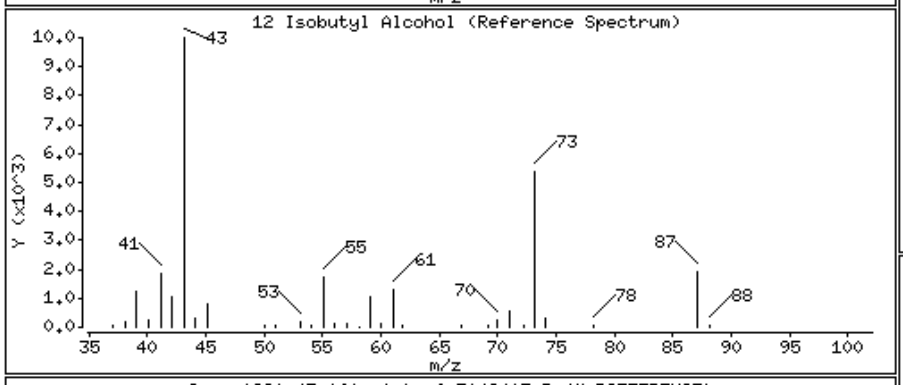
Purge Volume: 5.0 Operator: TS

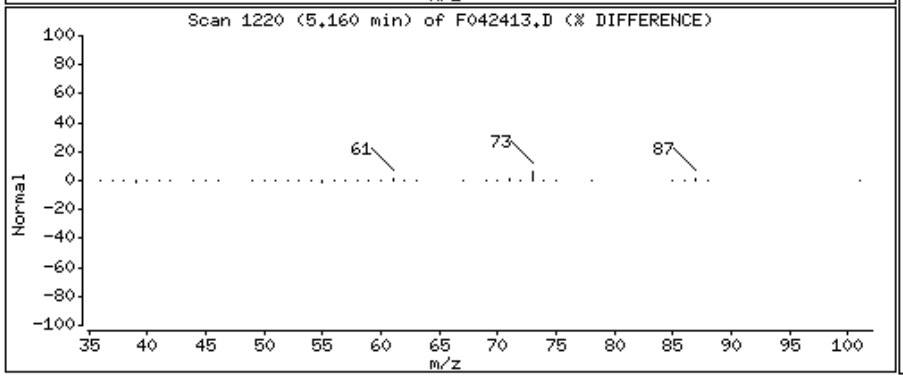
Column phase: DB624 Column diameter: 0.18

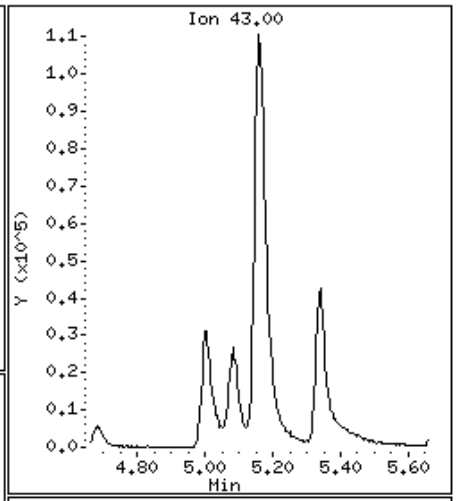
12 Isobutyl Alcohol Concentration: 1143.18 ug/l

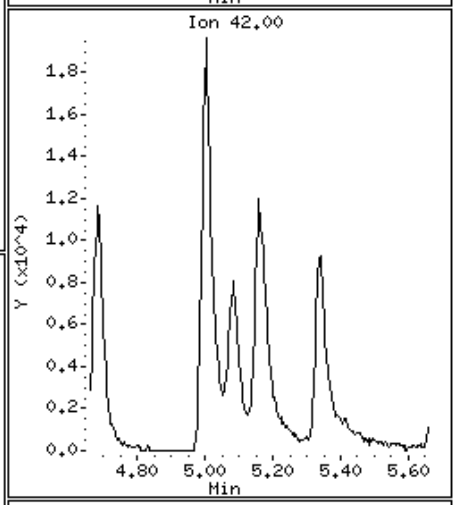


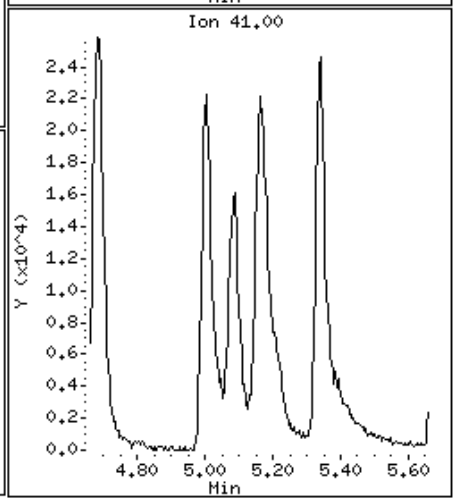












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 13

Date : 24-APR-2024 13:44

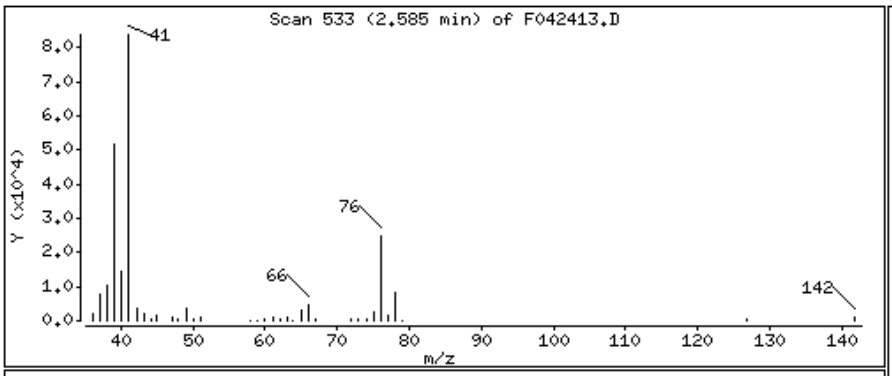
Client ID: VSTD050 Instrument: voa10.i

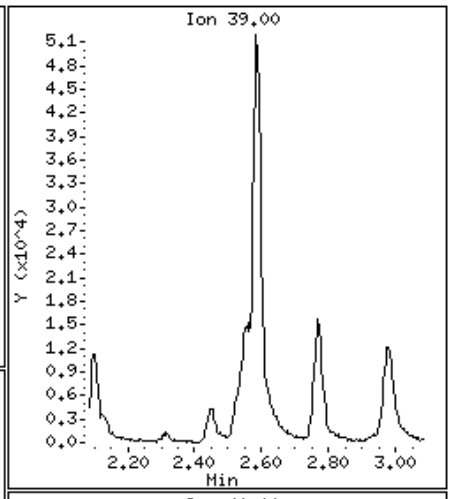
Sample Info: VSTD050;VSTD050;2;;ICV

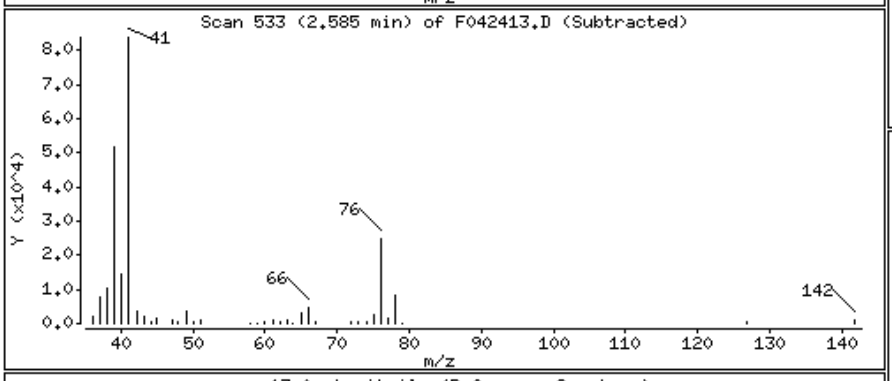
Purge Volume: 5.0 Operator: TS

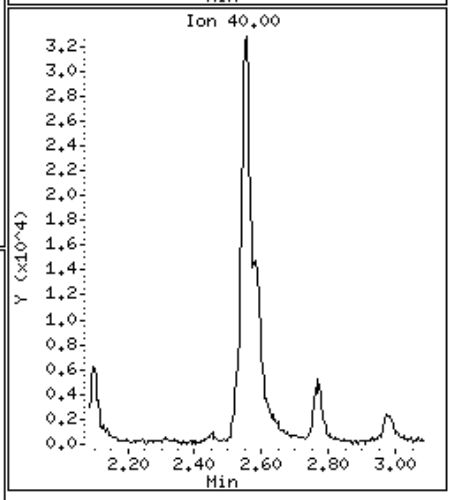
Column phase: DB624 Column diameter: 0.18

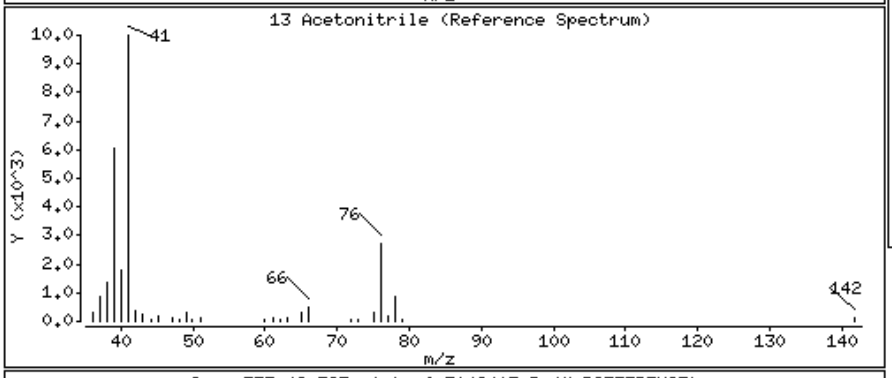
13 Acetonitrile Concentration: 416.65 ug/l

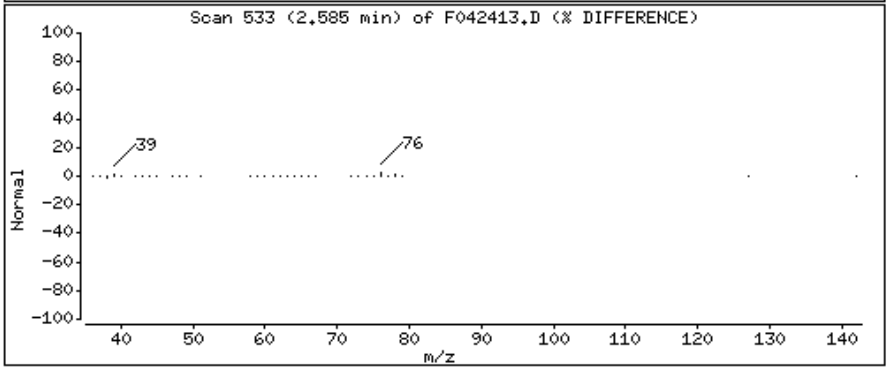












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 14

Date : 24-APR-2024 13:44

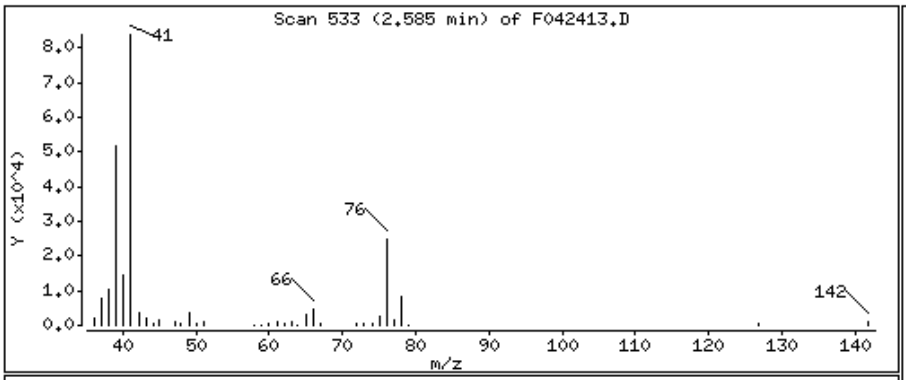
Client ID: VSTD050 Instrument: voa10.i

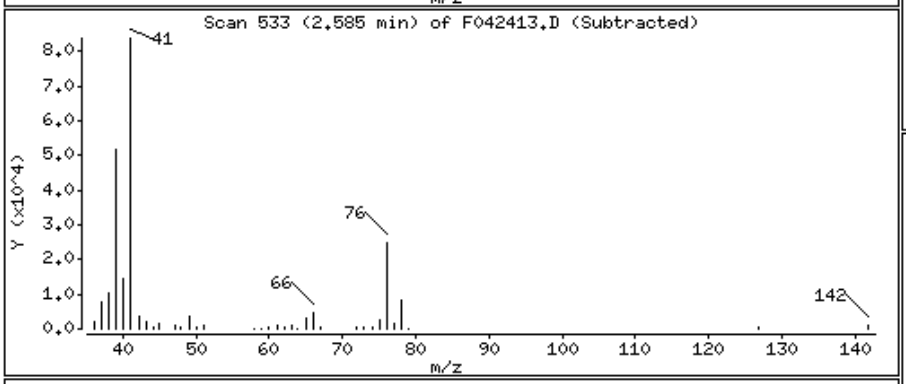
Sample Info: VSTD050;VSTD050;2;;ICV

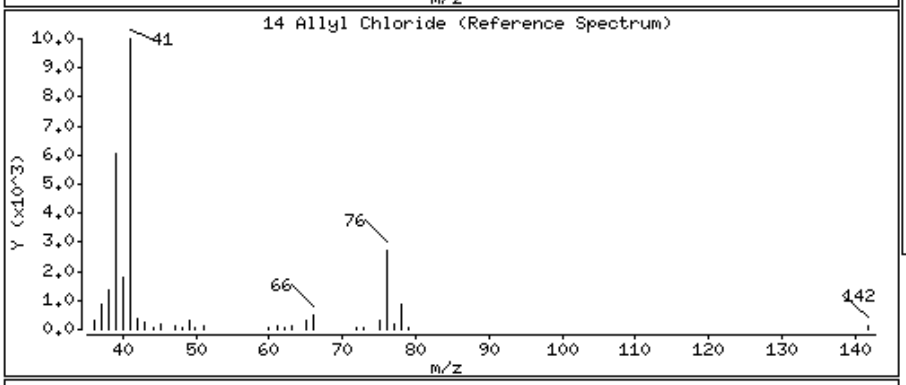
Purge Volume: 5.0 Operator: TS

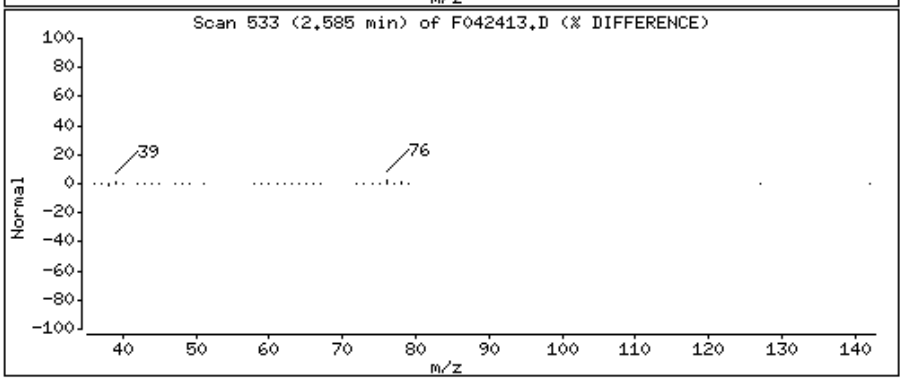
Column phase: DB624 Column diameter: 0.18

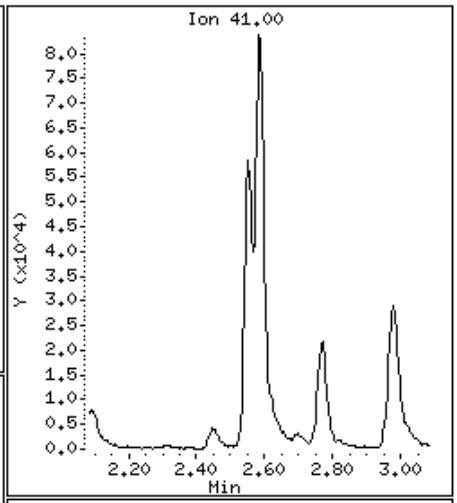
14 Allyl Chloride Concentration: 57.08 ug/l

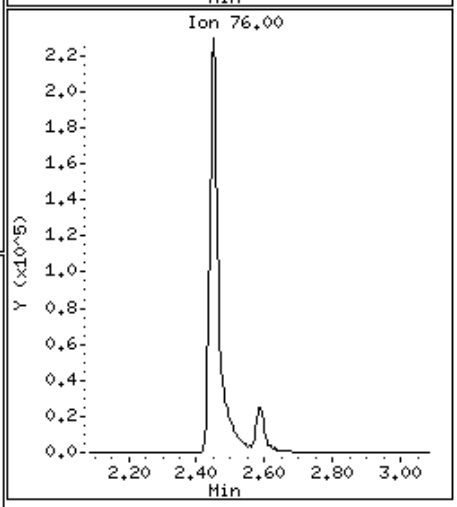












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 15

Date : 24-APR-2024 13:44

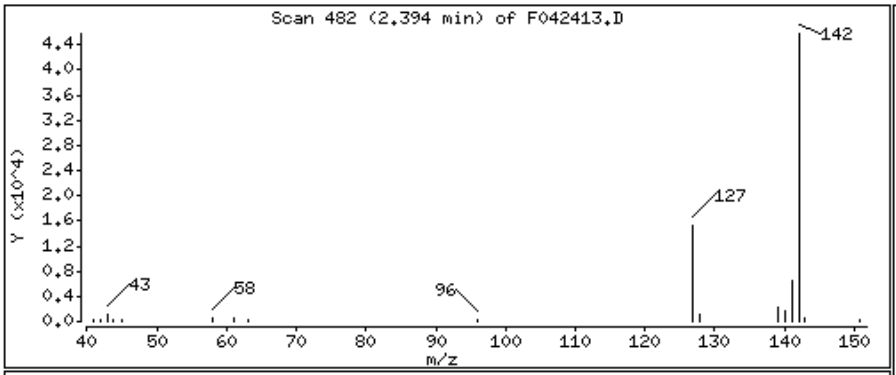
Client ID: VSTD050 Instrument: voa10.i

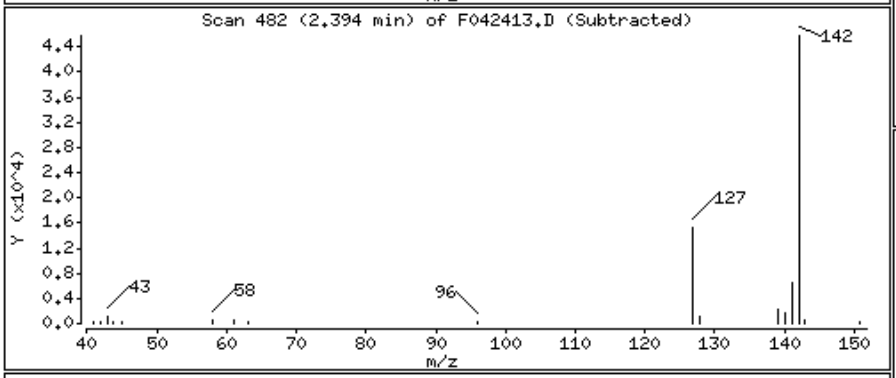
Sample Info: VSTD050;VSTD050;2;;ICV

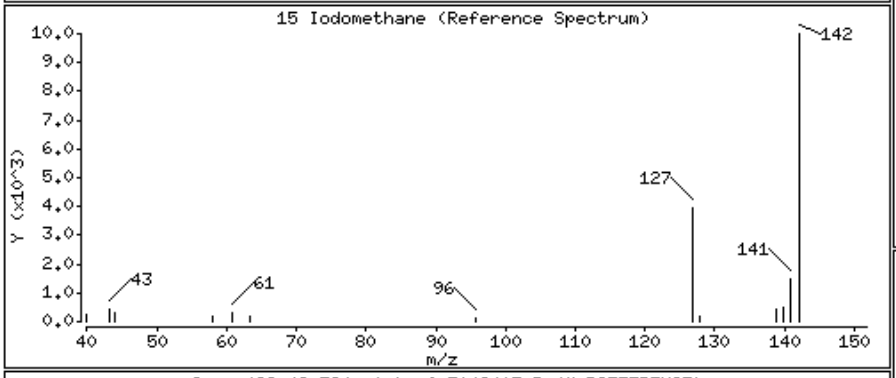
Purge Volume: 5.0 Operator: TS

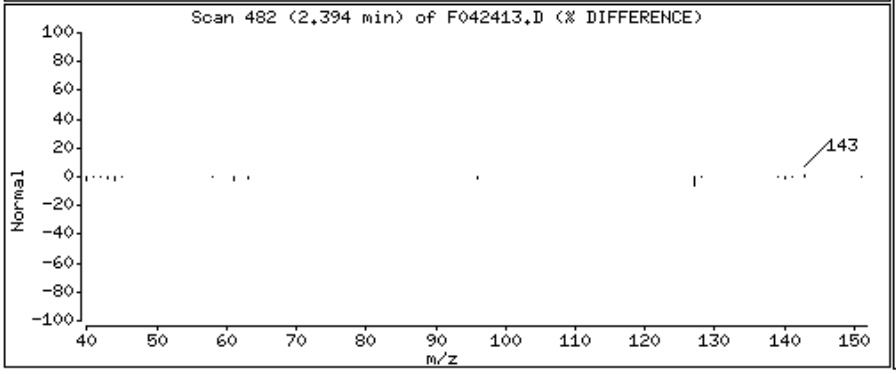
Column phase: DB624 Column diameter: 0.18

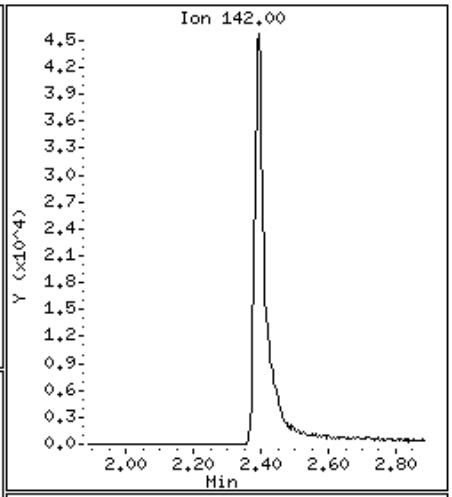
15 Iodomethane Concentration: 81.66 ug/l

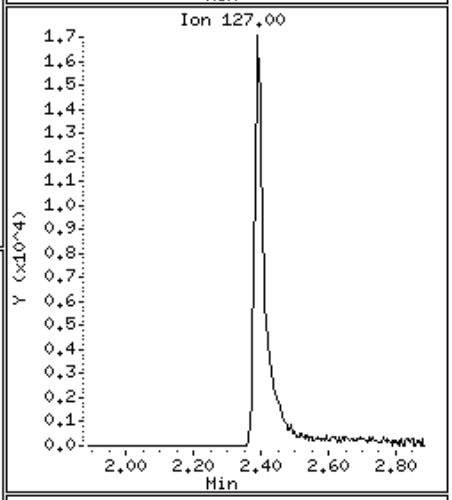


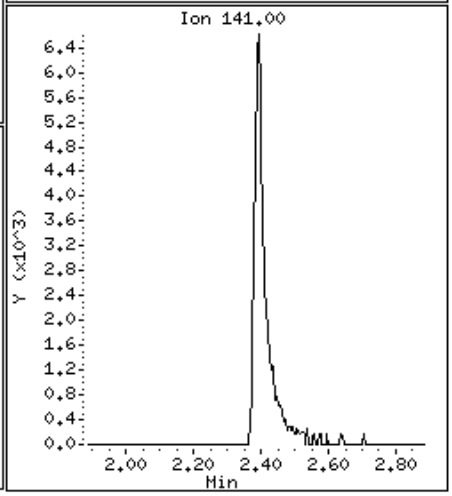












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 16

Date : 24-APR-2024 13:44

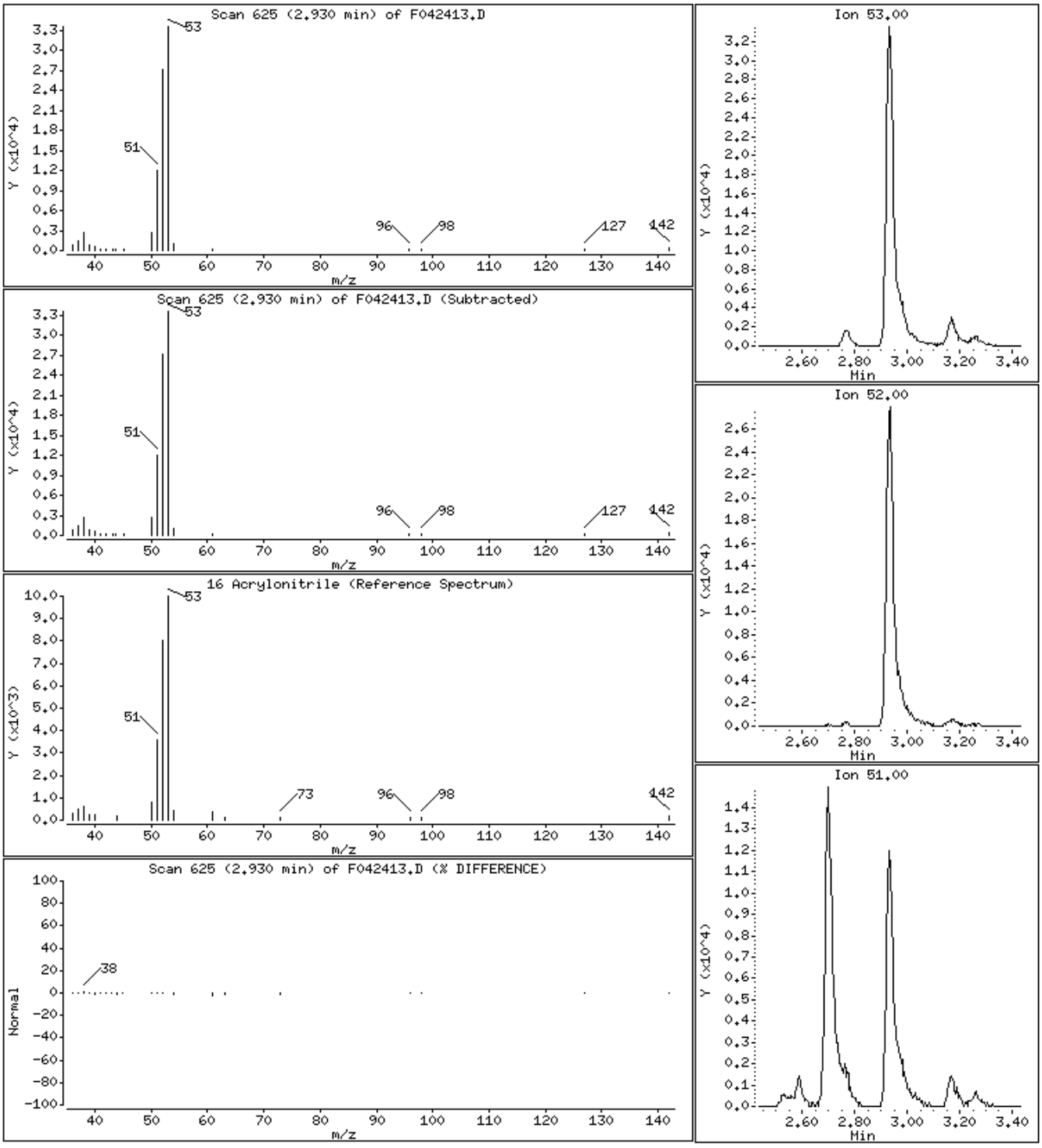
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

16 Acrylonitrile Concentration: 118.79 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 17

Date : 24-APR-2024 13:44

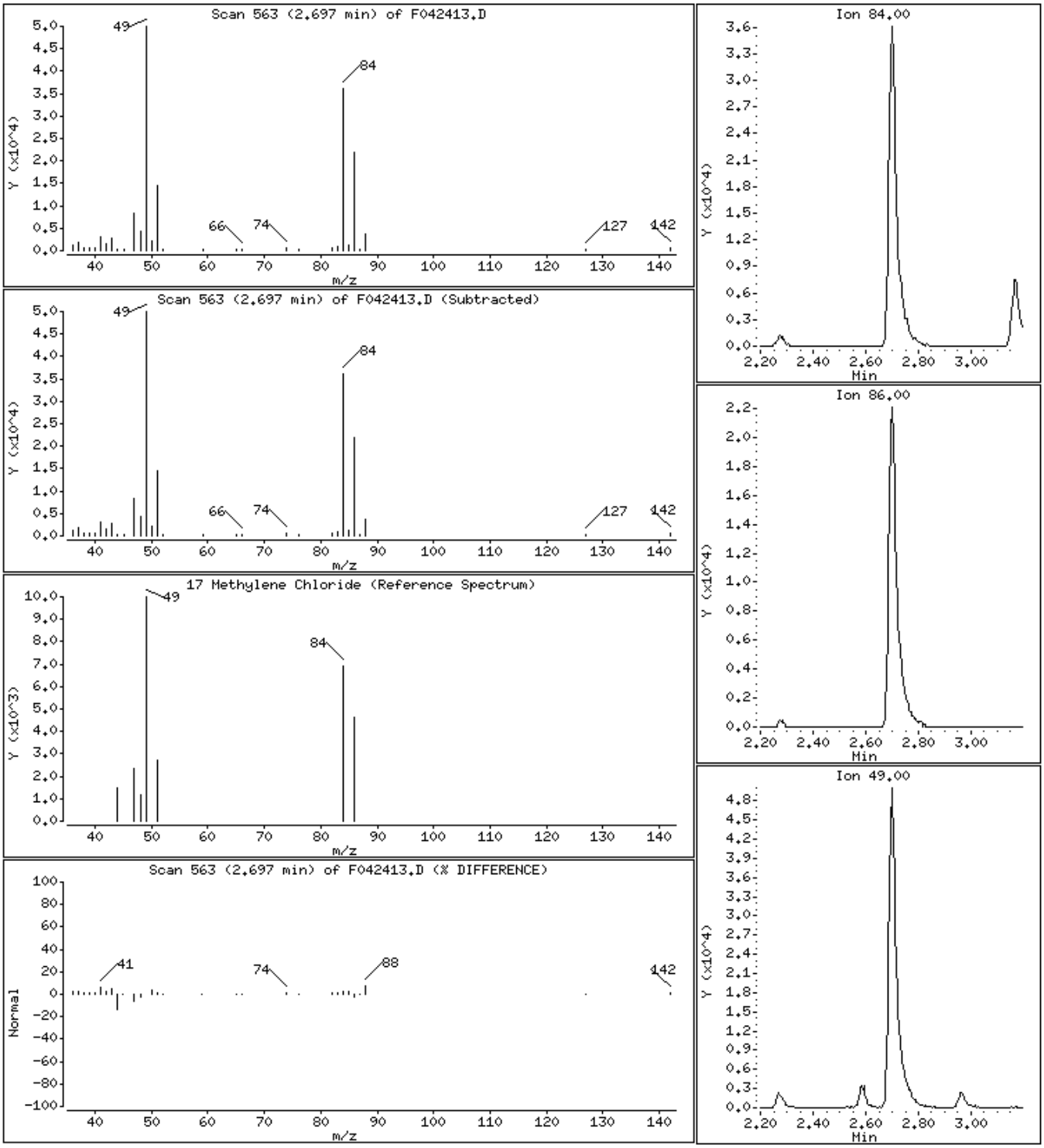
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

17 Methylene Chloride Concentration: 49.83 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 18

Date : 24-APR-2024 13:44

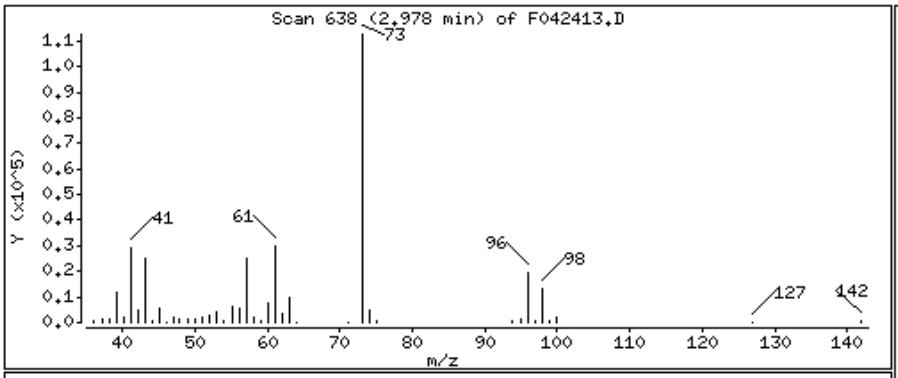
Client ID: VSTD050 Instrument: voa10.i

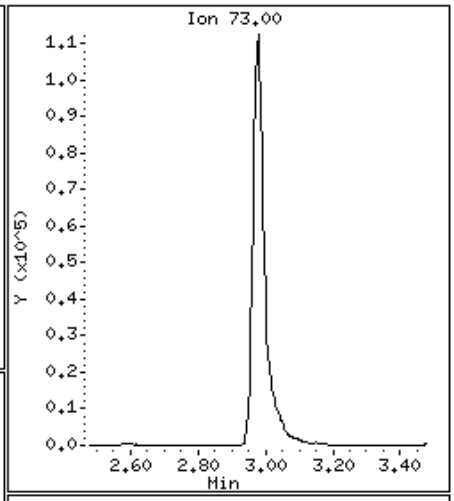
Sample Info: VSTD050;VSTD050;2;;ICV

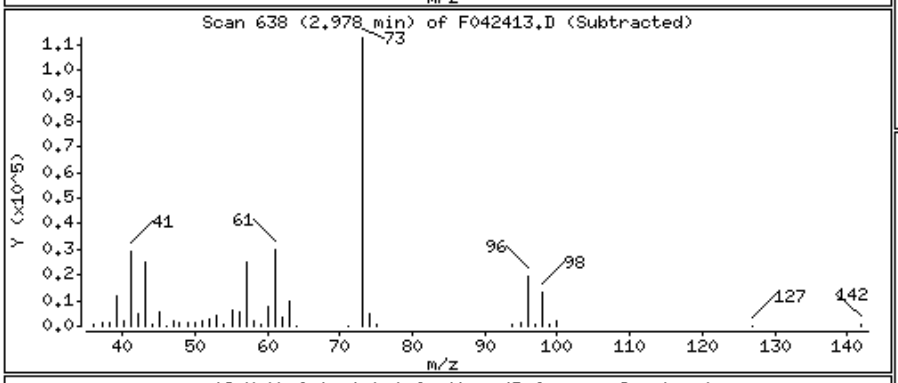
Purge Volume: 5.0 Operator: TS

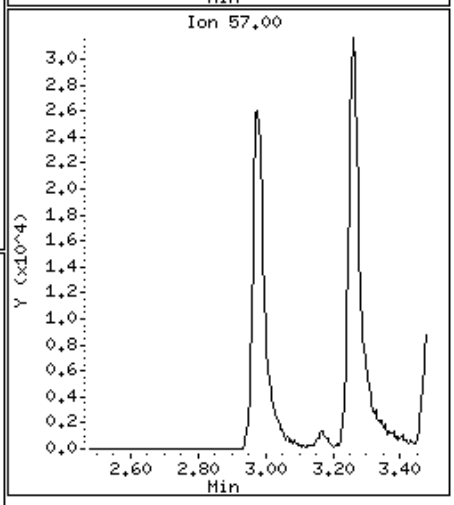
Column phase: DB624 Column diameter: 0.18

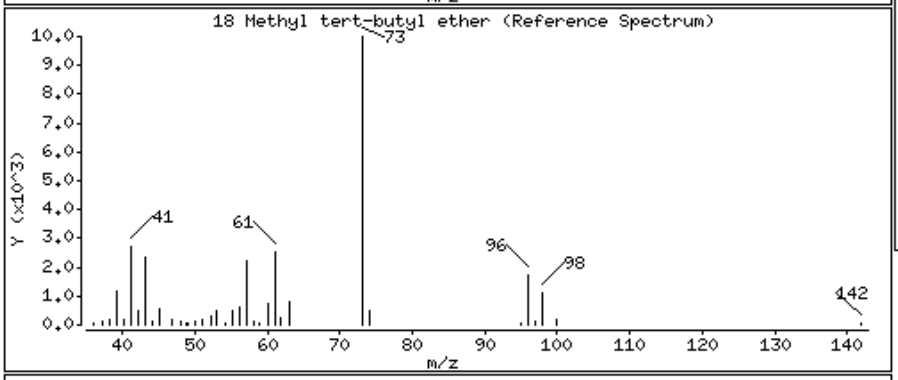
18 Methyl tert-butyl ether Concentration: 59.43 ug/l

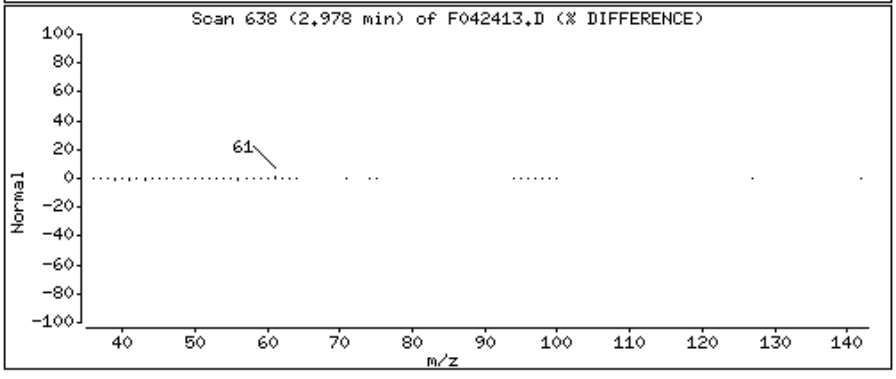












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

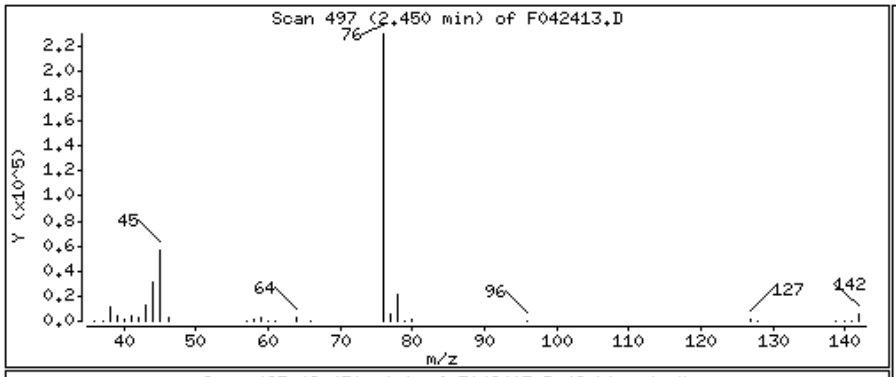
Operator: TS

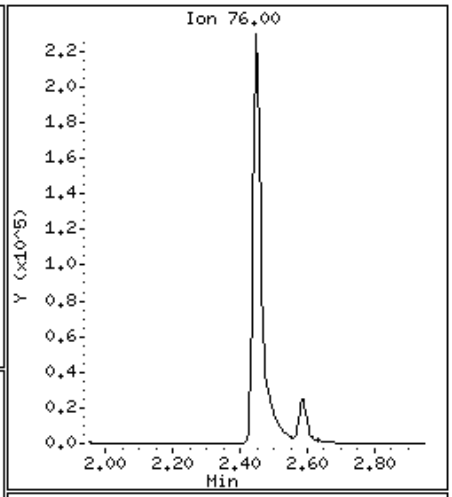
Column phase: DB624

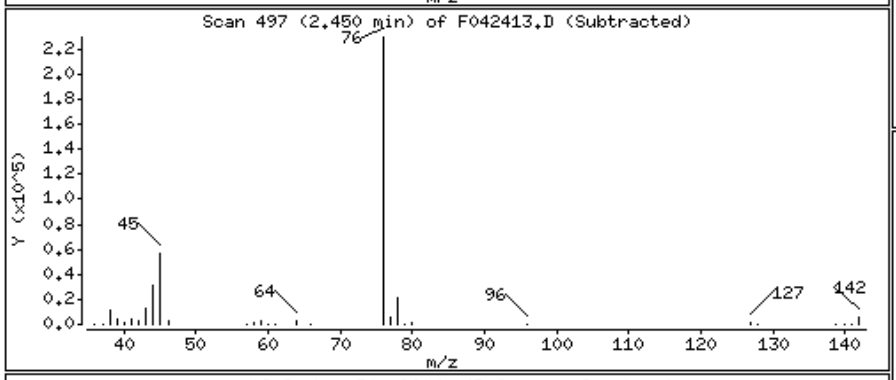
Column diameter: 0.18

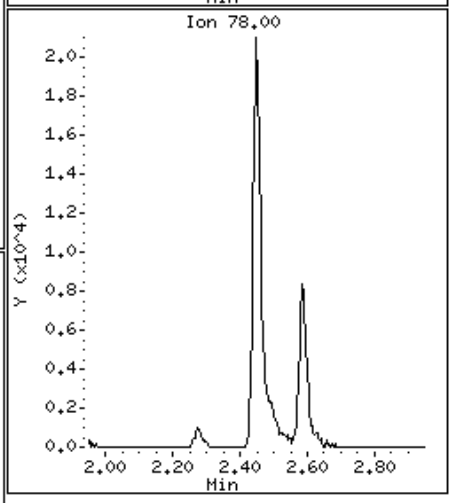
19 Carbon Disulfide

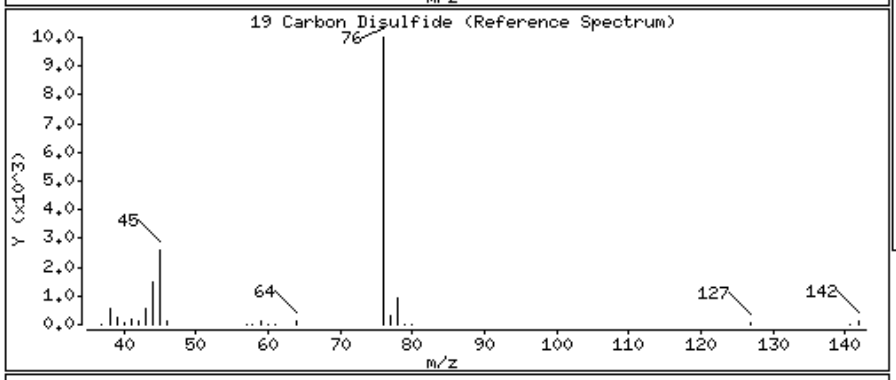
Concentration: 104.84 ug/l

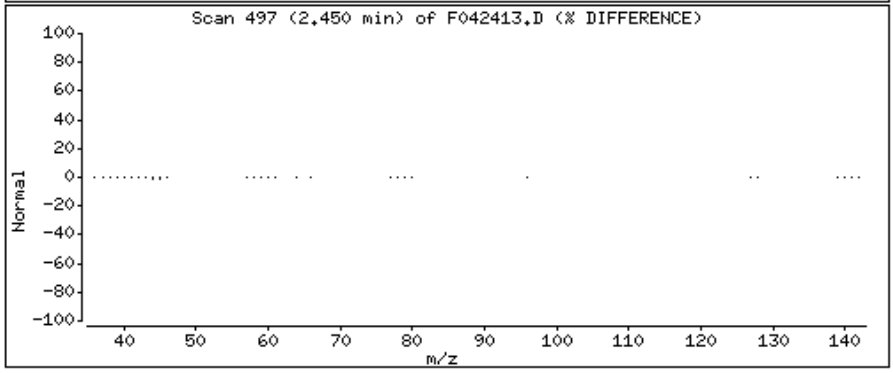












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

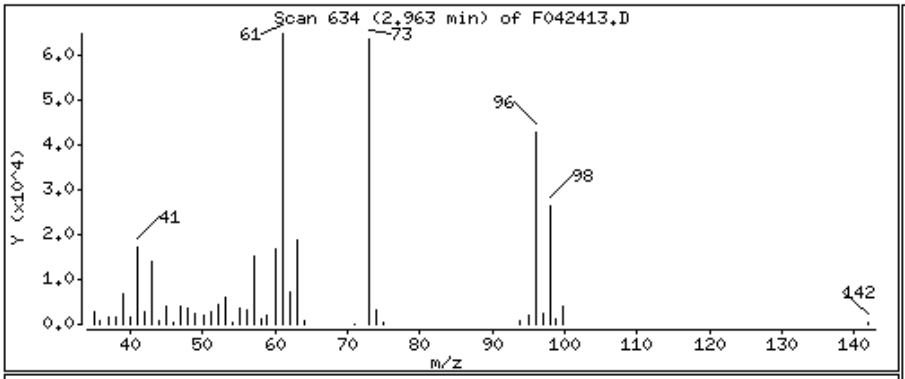
Operator: TS

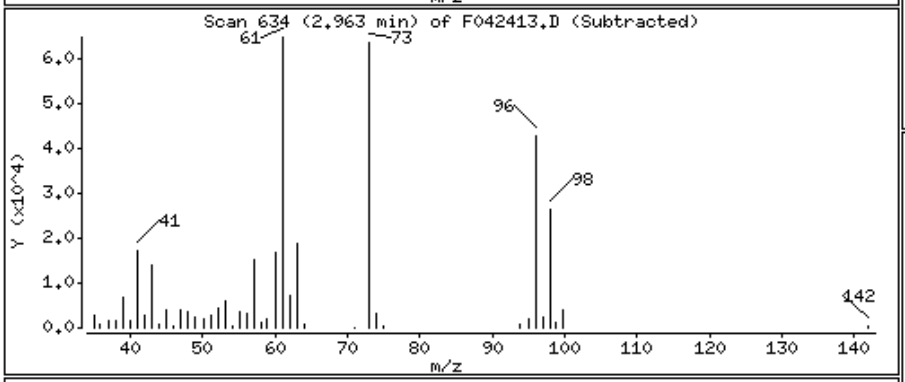
Column phase: DB624

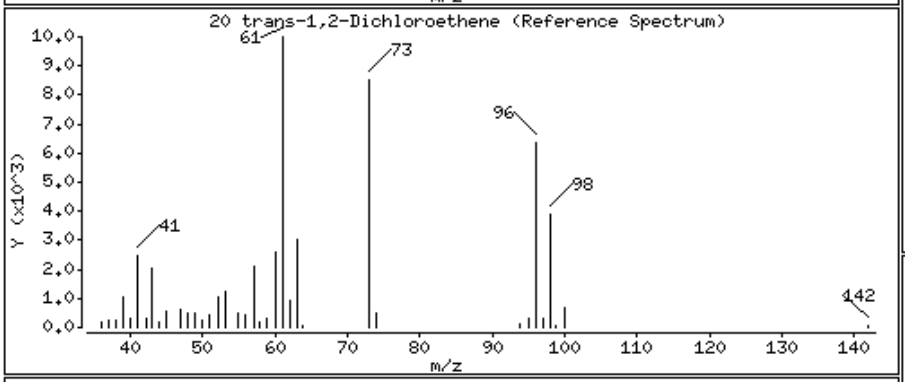
Column diameter: 0.18

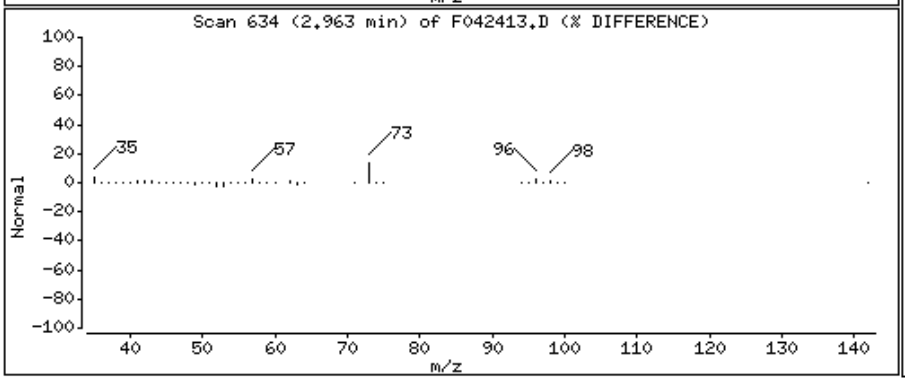
20 trans-1,2-Dichloroethene

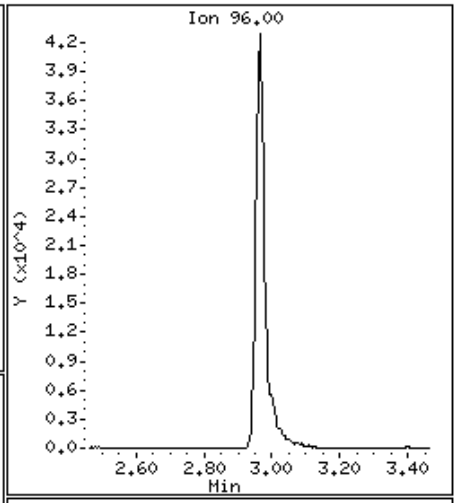
Concentration: 59.25 ug/l

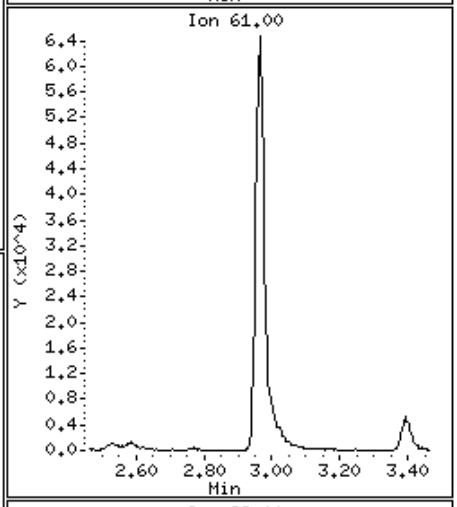


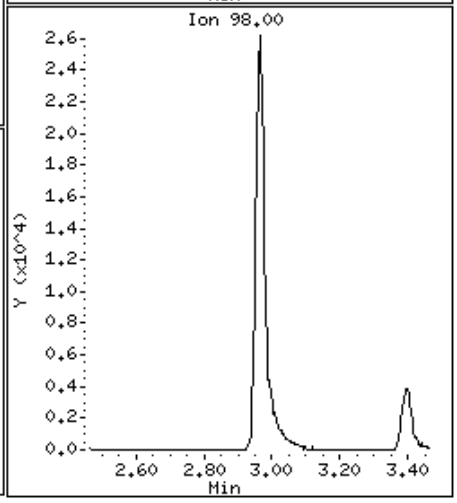












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

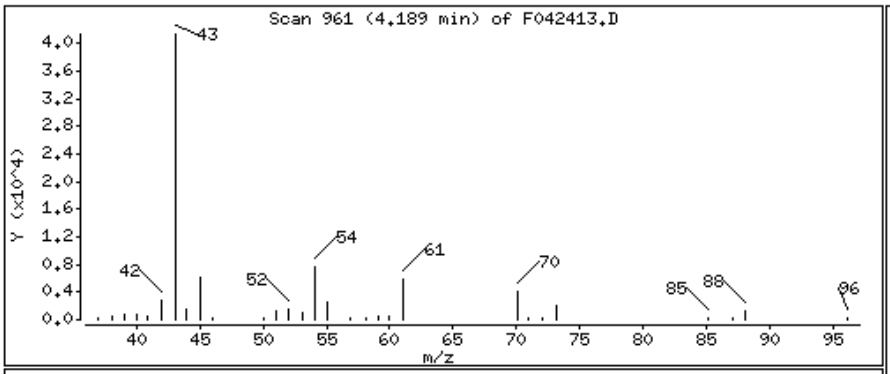
Operator: TS

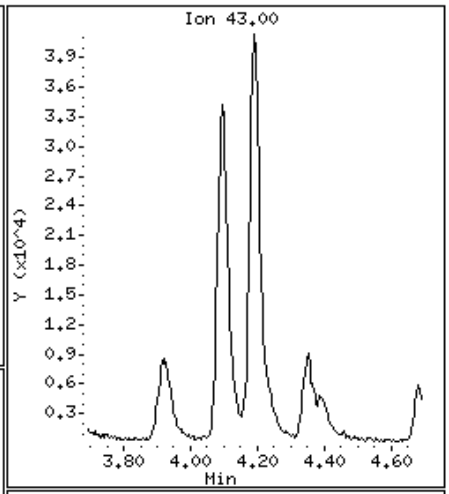
Column phase: DB624

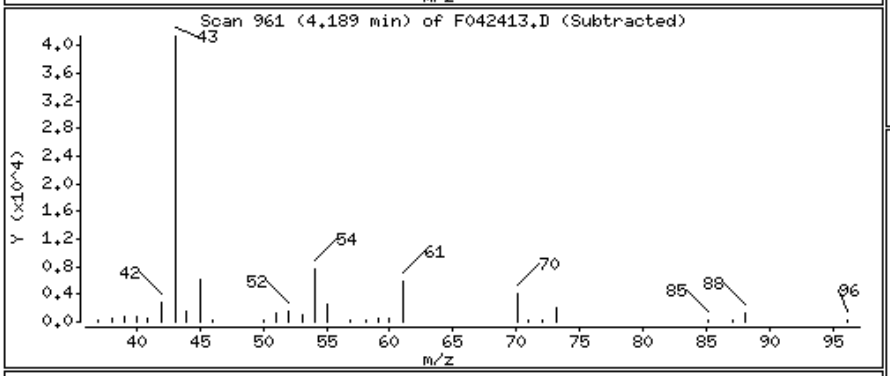
Column diameter: 0.18

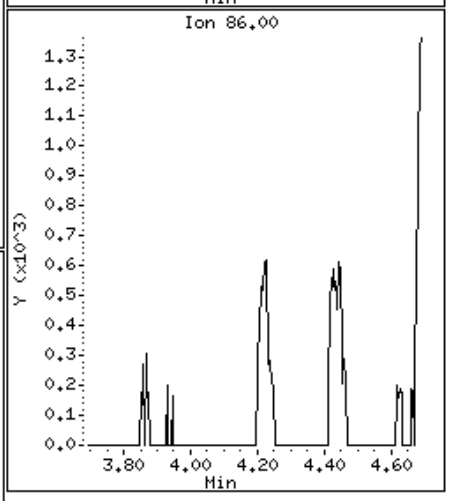
21 Vinyl Acetate

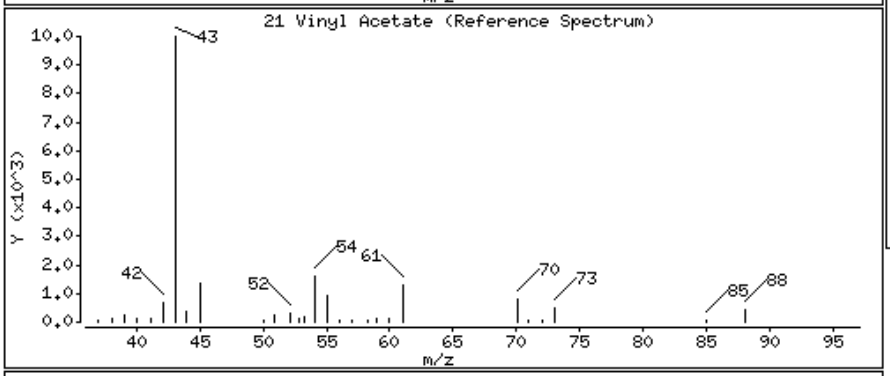
Concentration: 112.47 ug/l

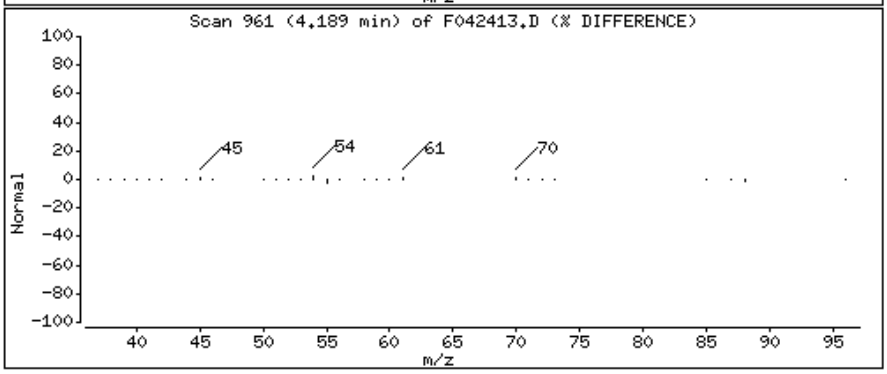












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

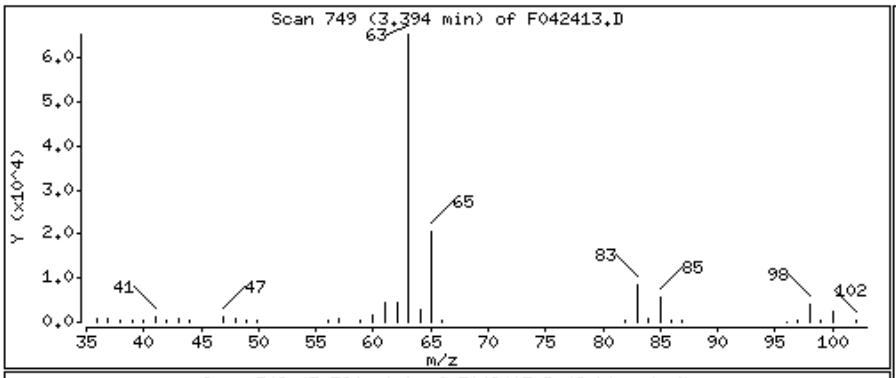
Operator: TS

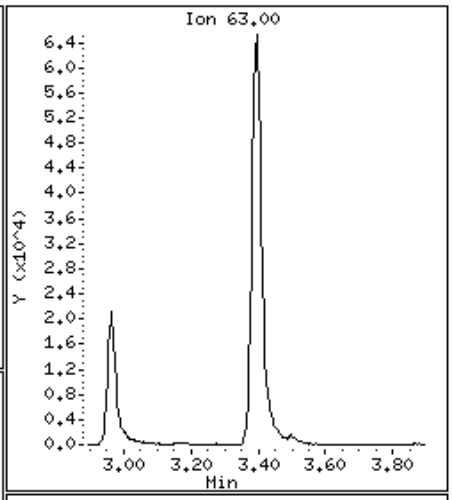
Column phase: DB624

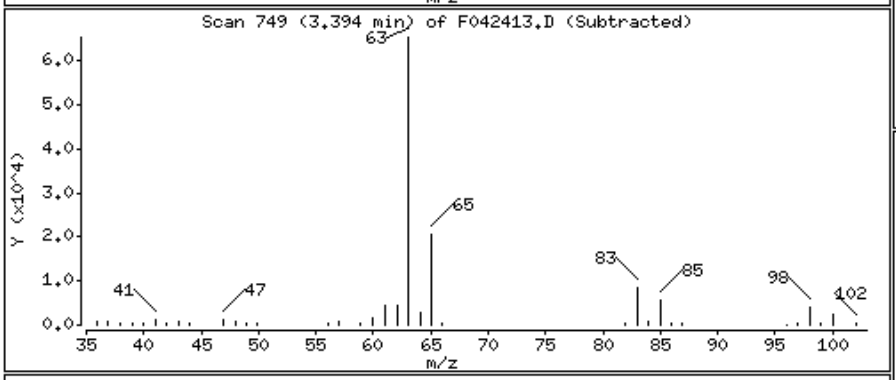
Column diameter: 0.18

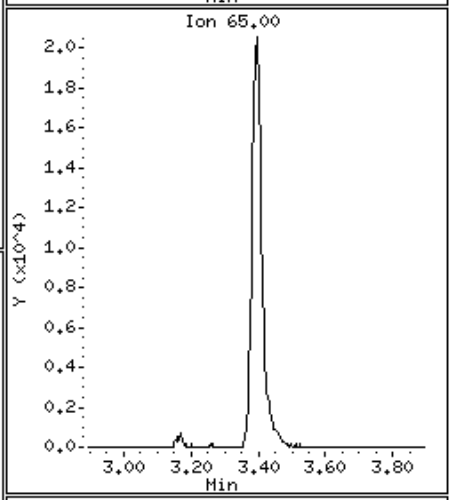
22 1,1-Dichloroethane

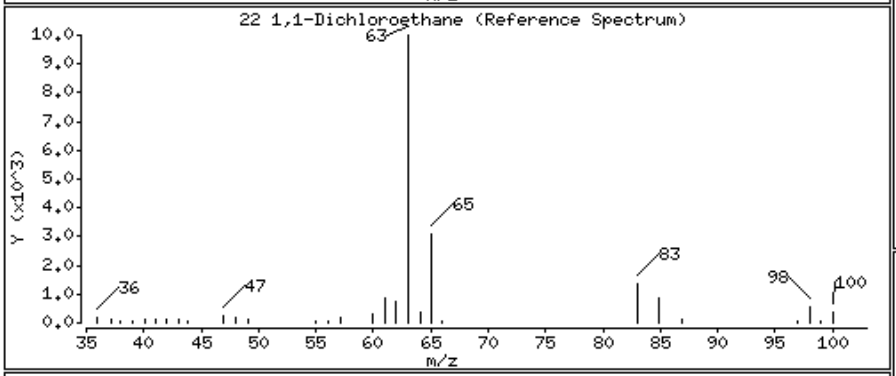
Concentration: 52.82 ug/l

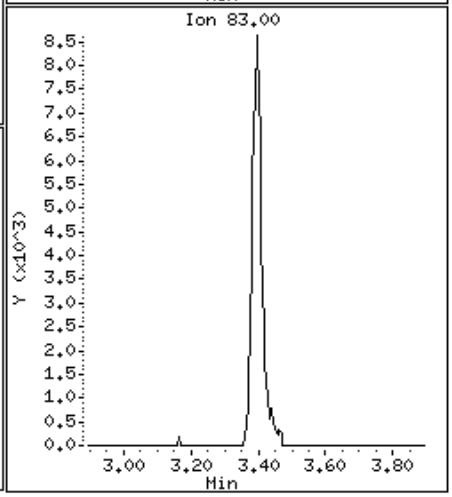


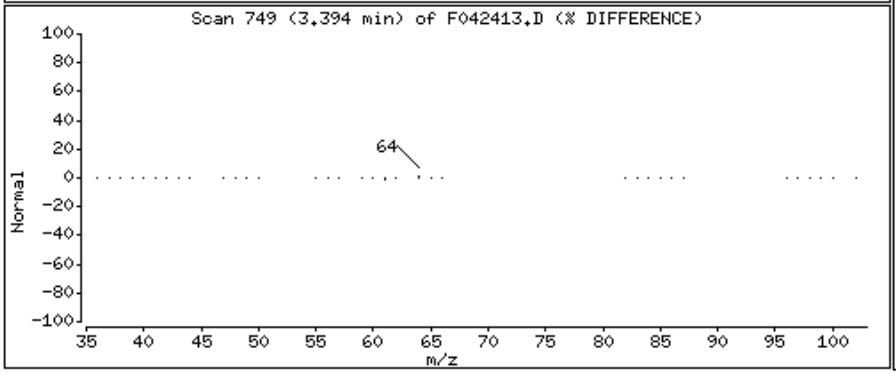












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

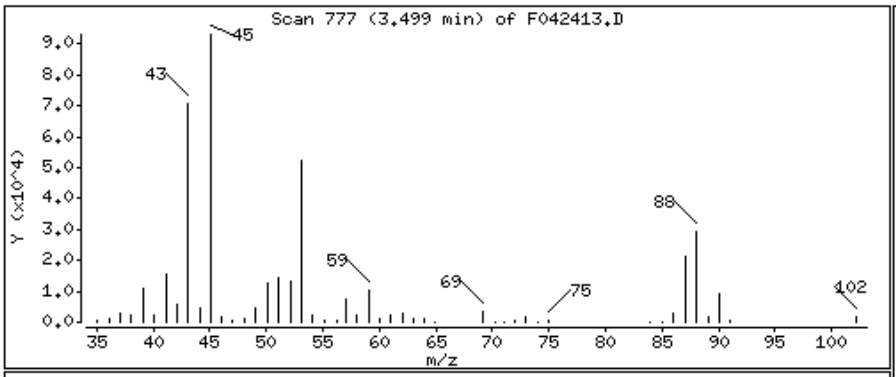
Operator: TS

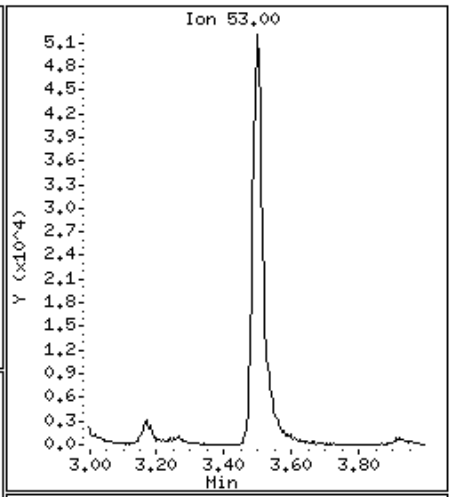
Column phase: DB624

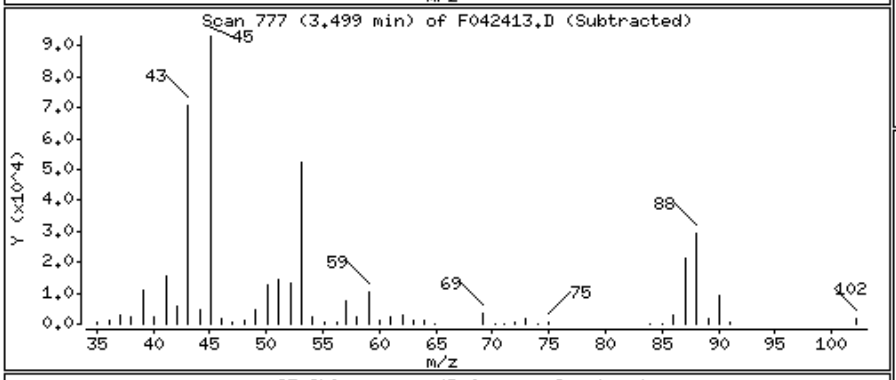
Column diameter: 0.18

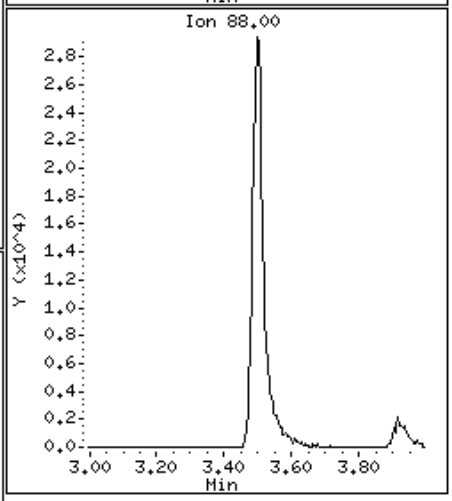
23 Chloroprene

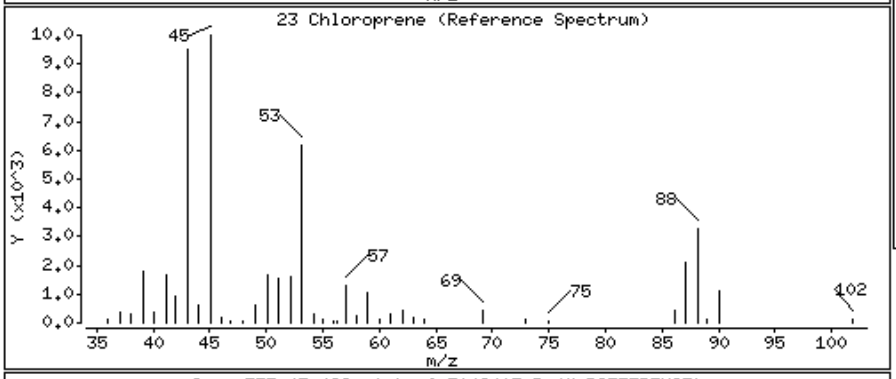
Concentration: 50.09 ug/l

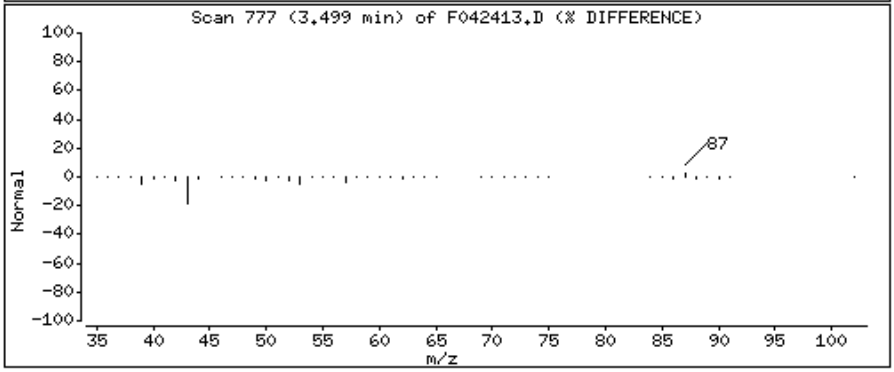












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

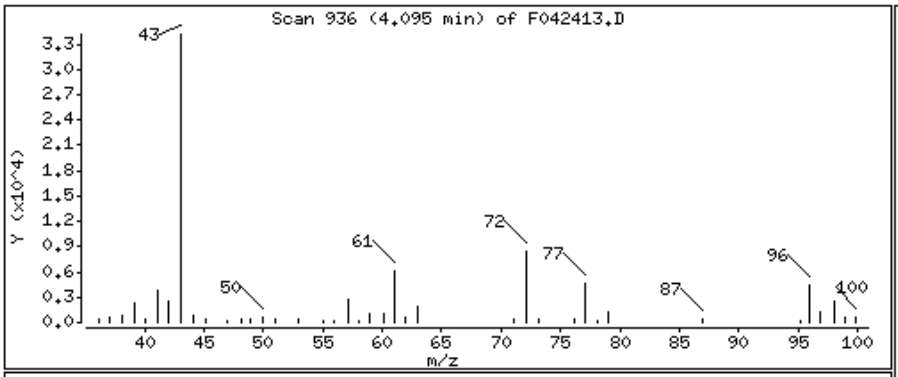
Operator: TS

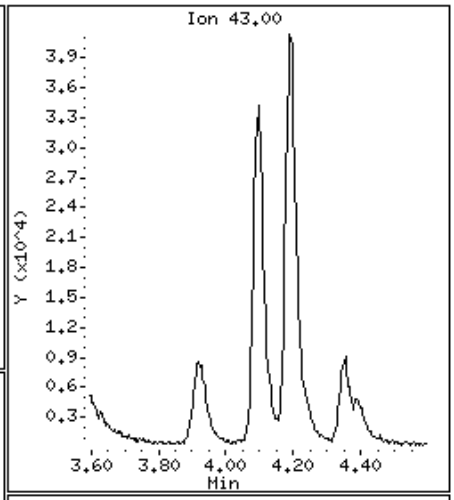
Column phase: DB624

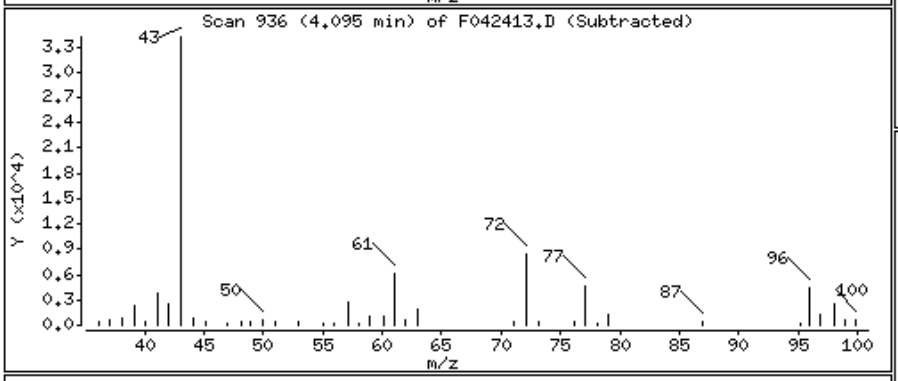
Column diameter: 0.18

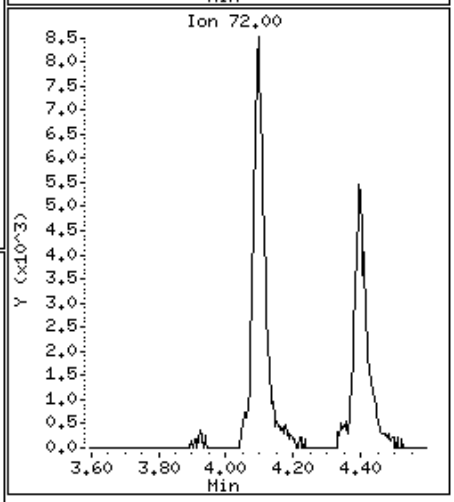
24 2-Butanone

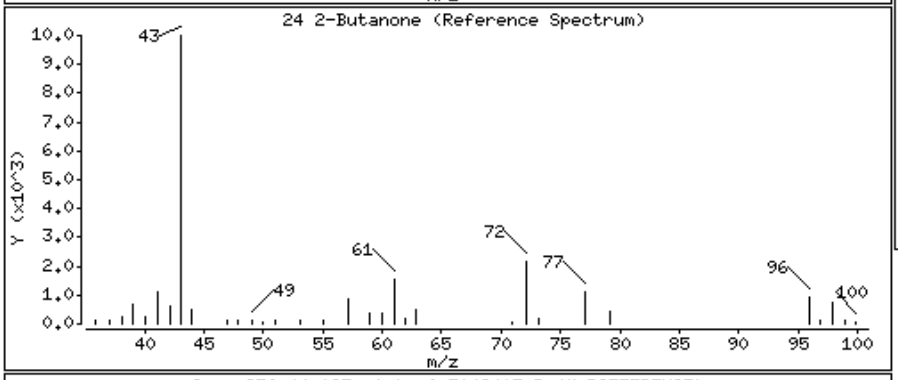
Concentration: 104.50 ug/l

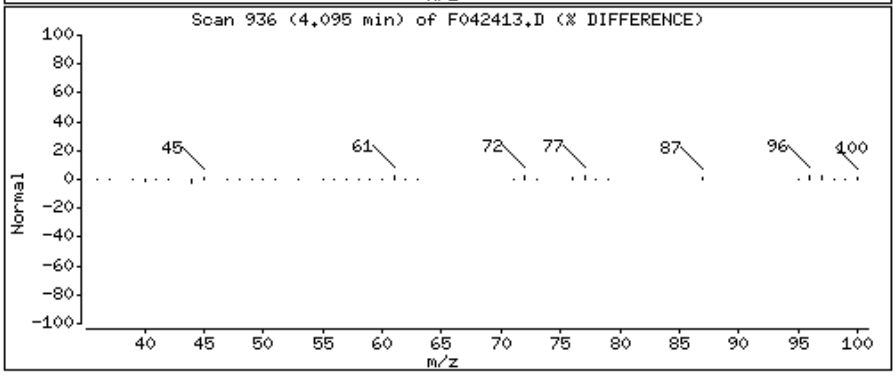












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

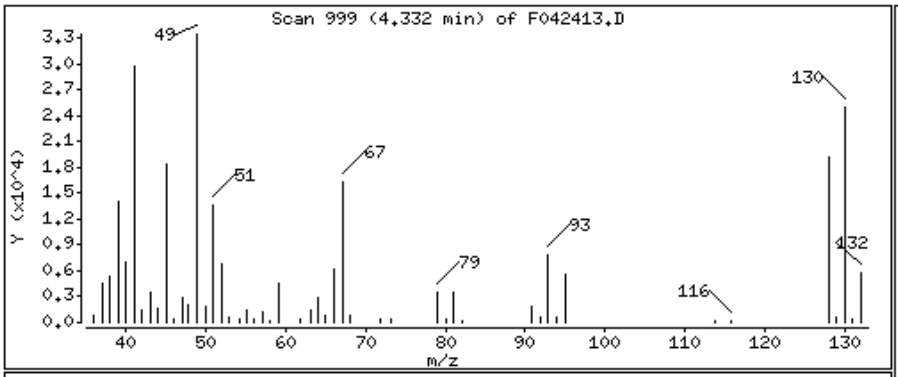
Operator: TS

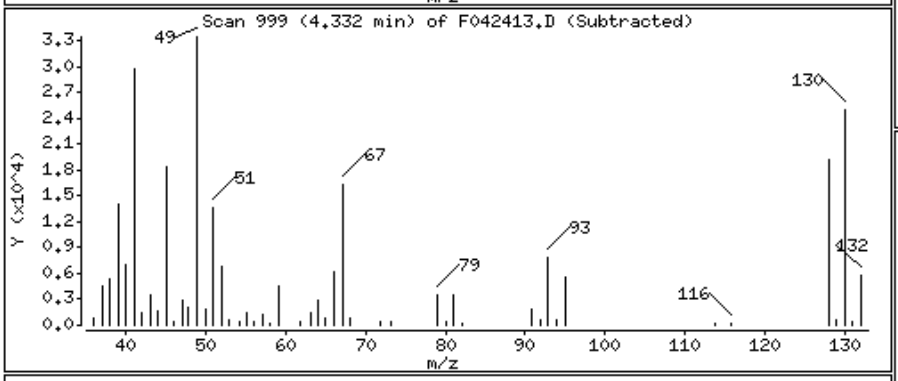
Column phase: DB624

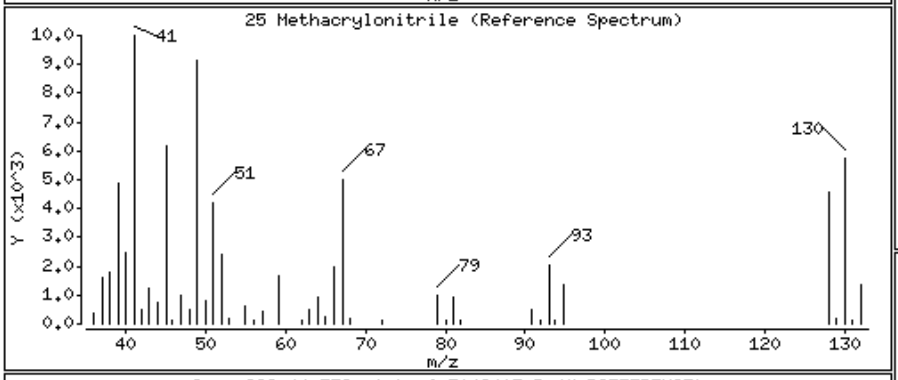
Column diameter: 0.18

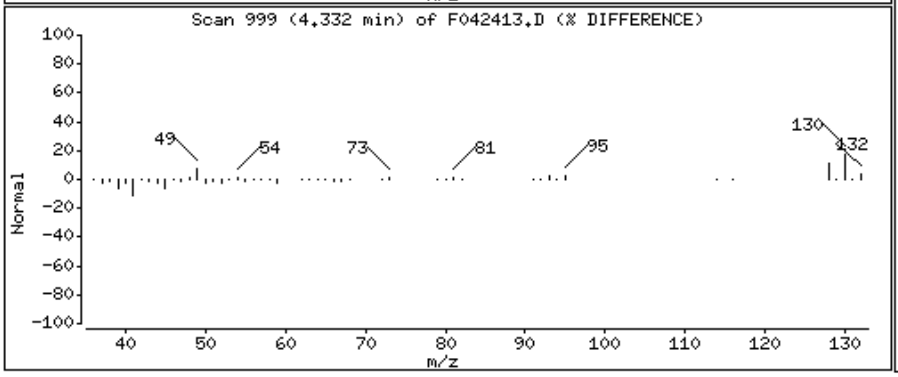
25 Methacrylonitrile

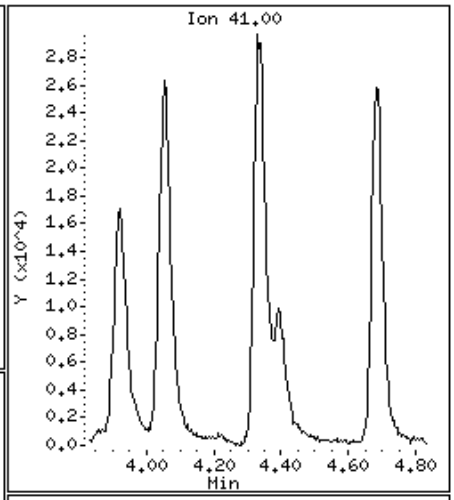
Concentration: 54.70 ug/l

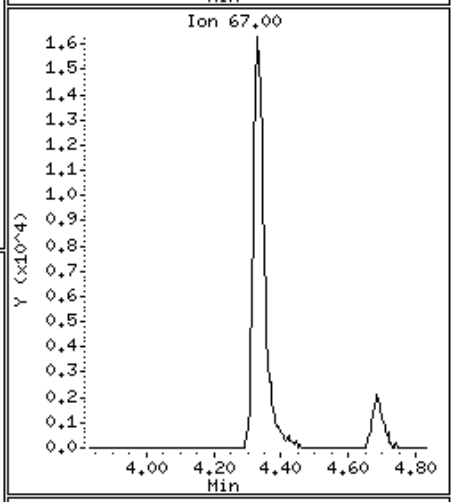


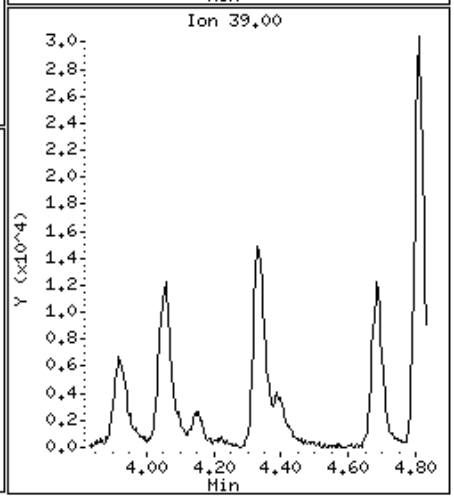












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 26

Date : 24-APR-2024 13:44

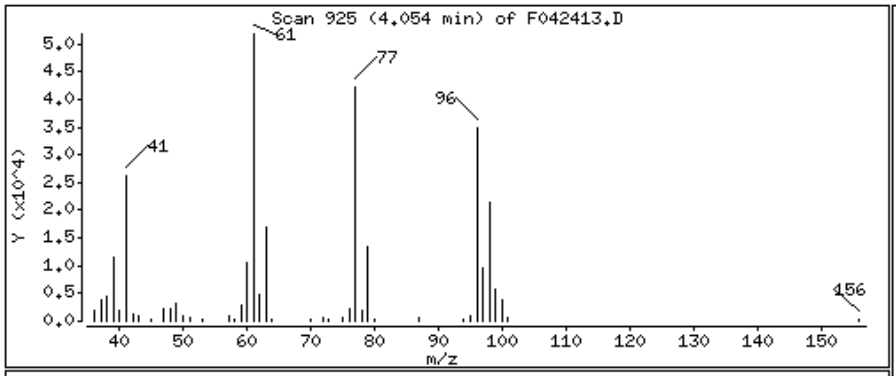
Client ID: VSTD050 Instrument: voa10.i

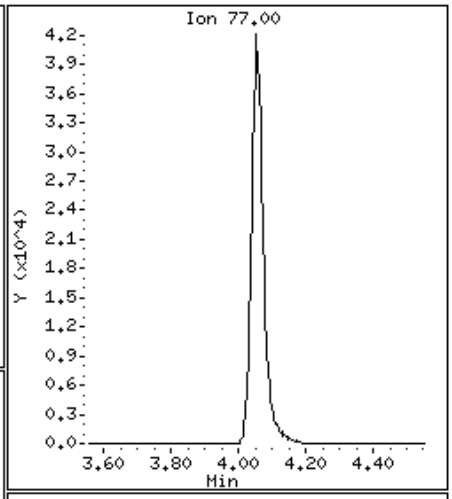
Sample Info: VSTD050;VSTD050;2;;ICV

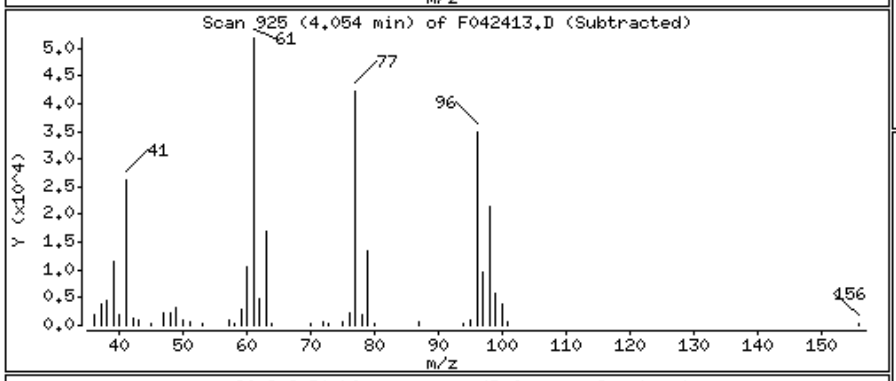
Purge Volume: 5.0 Operator: TS

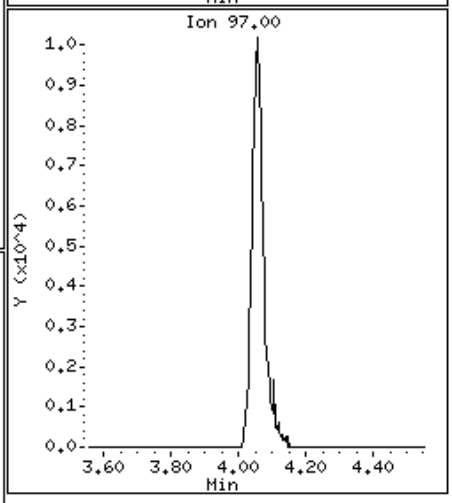
Column phase: DB624 Column diameter: 0.18

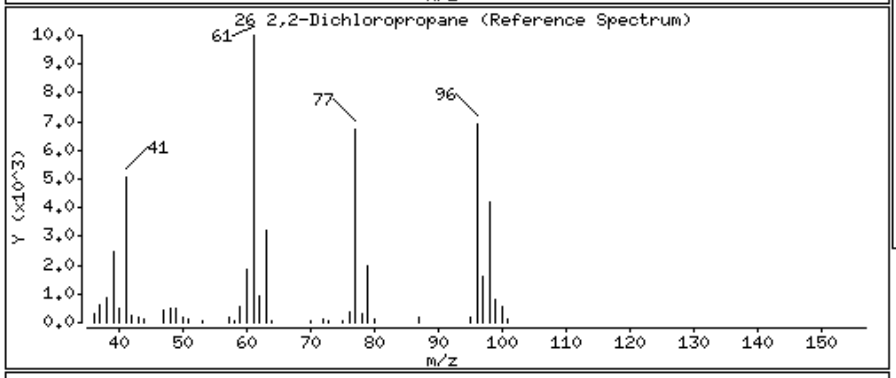
26 2,2-Dichloropropane Concentration: 47.70 ug/l

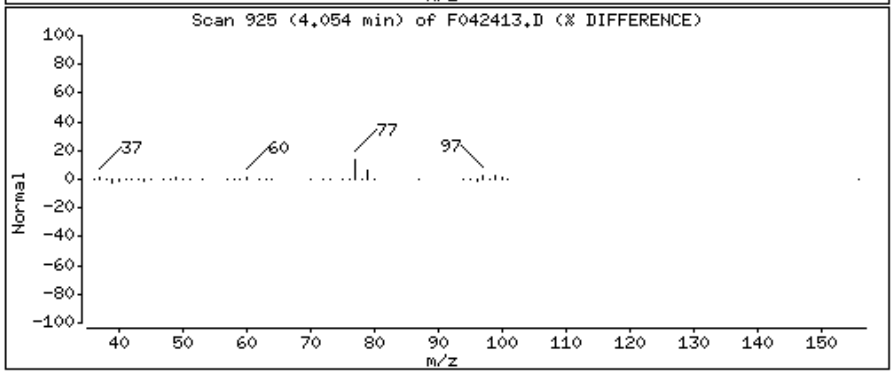












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 27

Date : 24-APR-2024 13:44

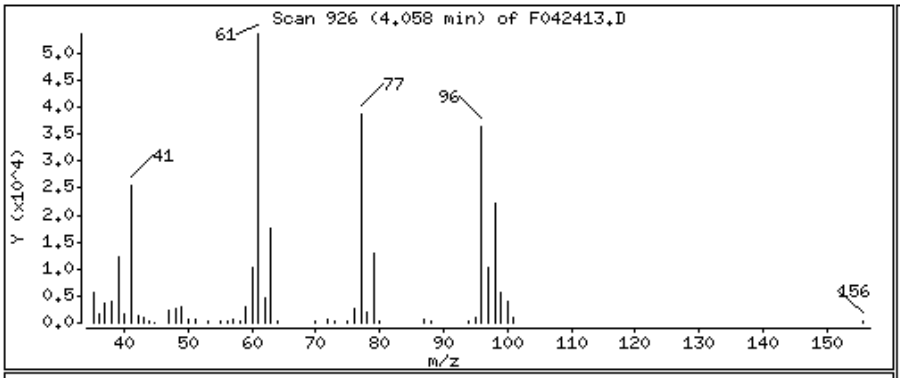
Client ID: VSTD050 Instrument: voa10.i

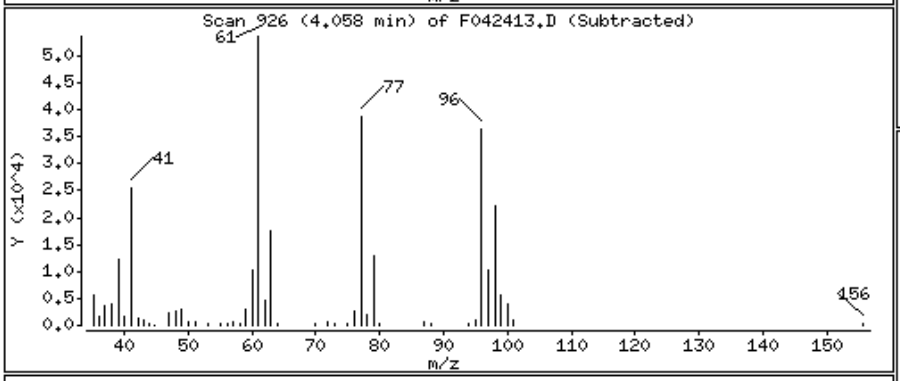
Sample Info: VSTD050;VSTD050;2;;ICV

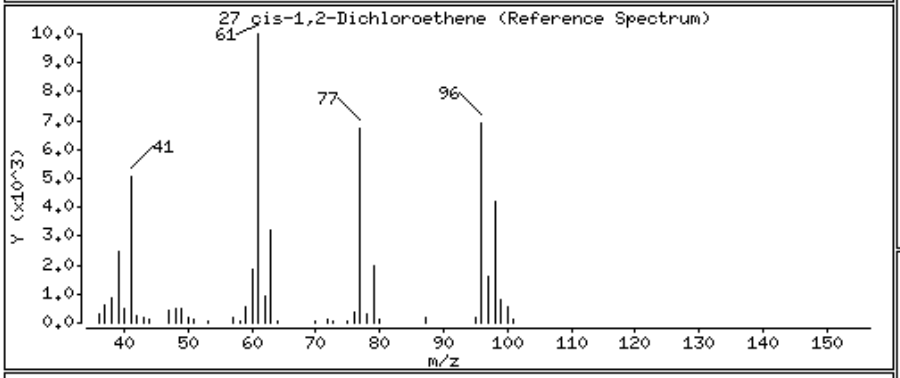
Purge Volume: 5.0 Operator: TS

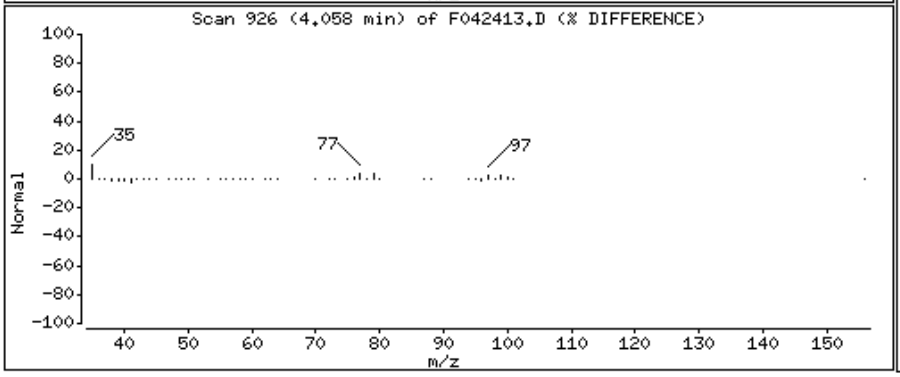
Column phase: DB624 Column diameter: 0.18

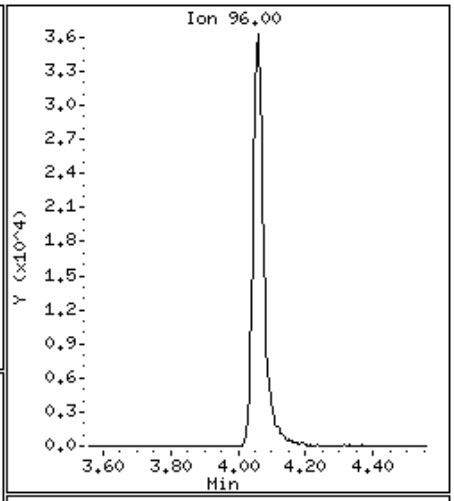
27 cis-1,2-Dichloroethene Concentration: 50.84 ug/l

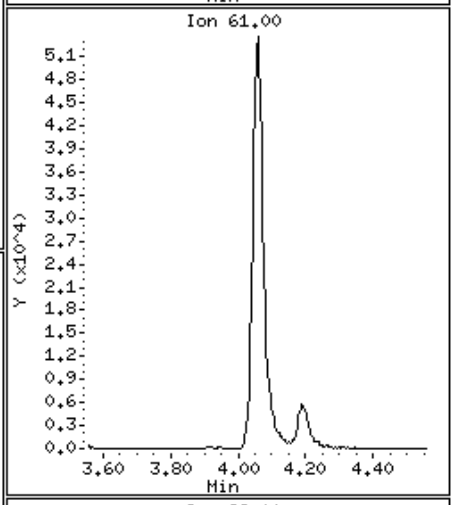


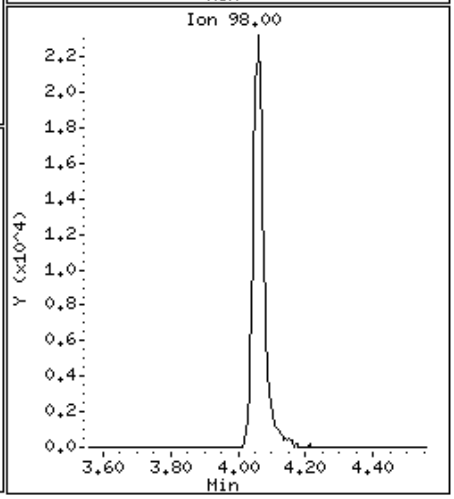












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 28

Date : 24-APR-2024 13:44

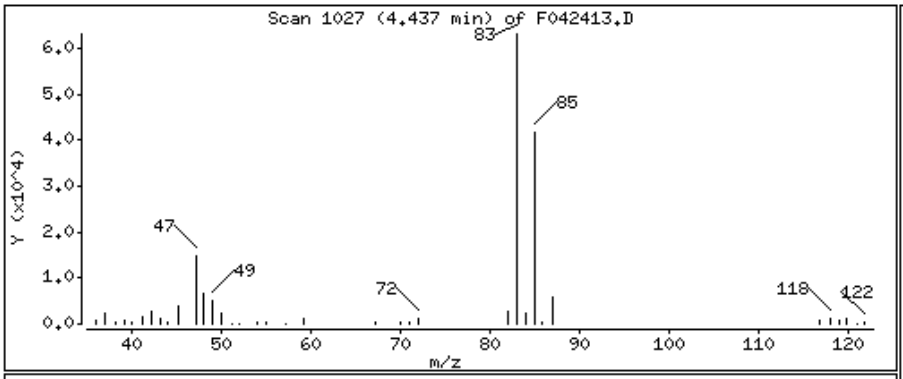
Client ID: VSTD050 Instrument: voa10.i

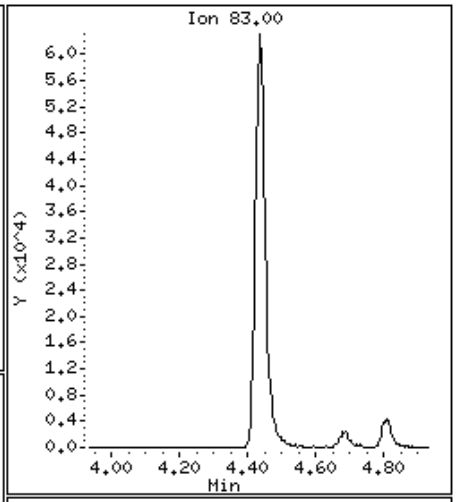
Sample Info: VSTD050;VSTD050;2;;ICV

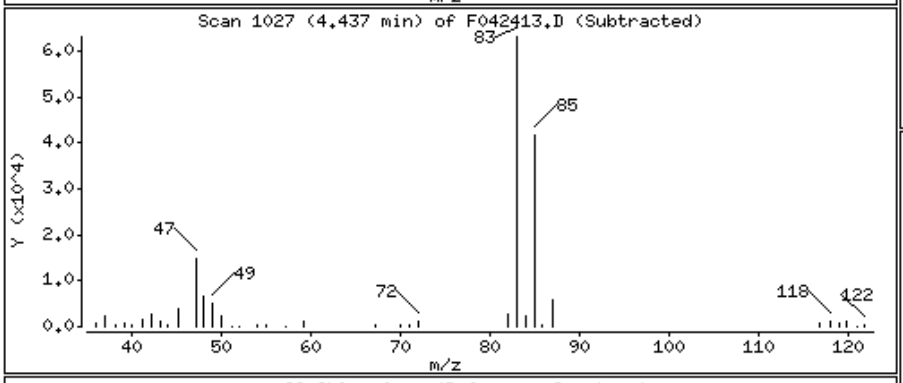
Purge Volume: 5.0 Operator: TS

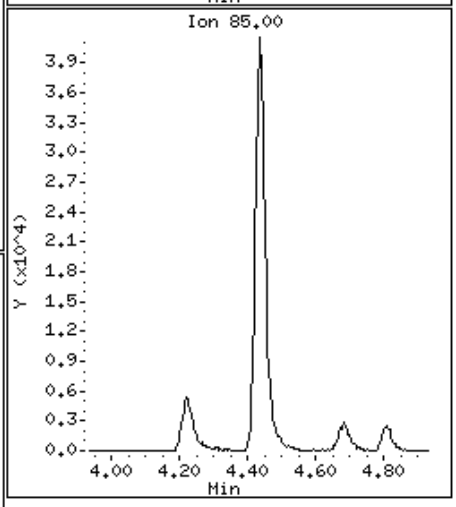
Column phase: DB624 Column diameter: 0.18

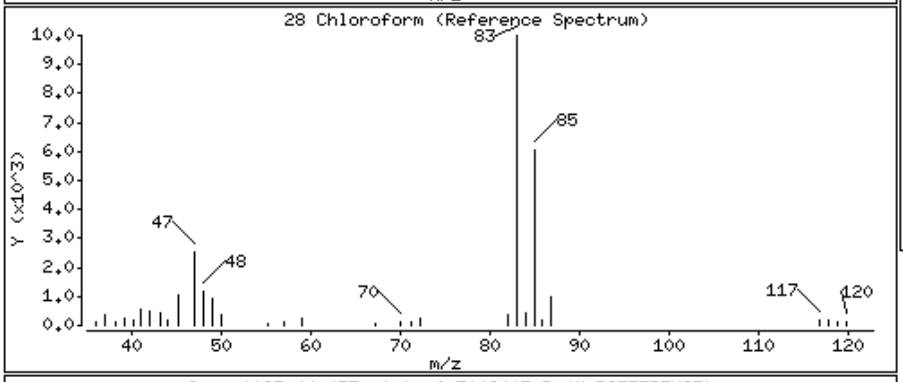
28 Chloroform Concentration: 50.85 ug/l

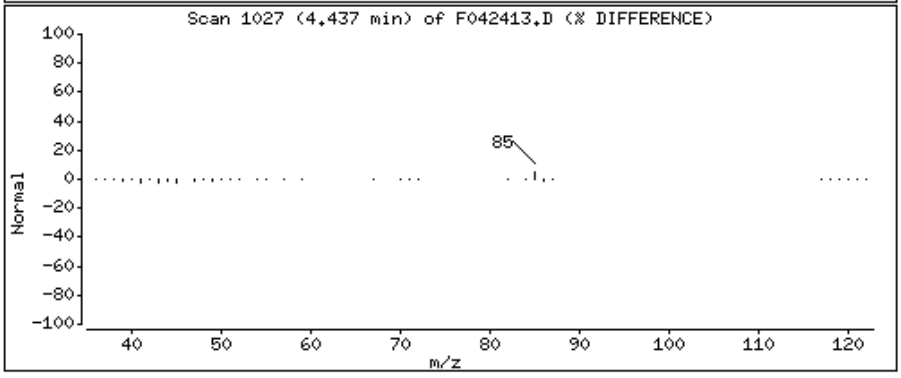












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

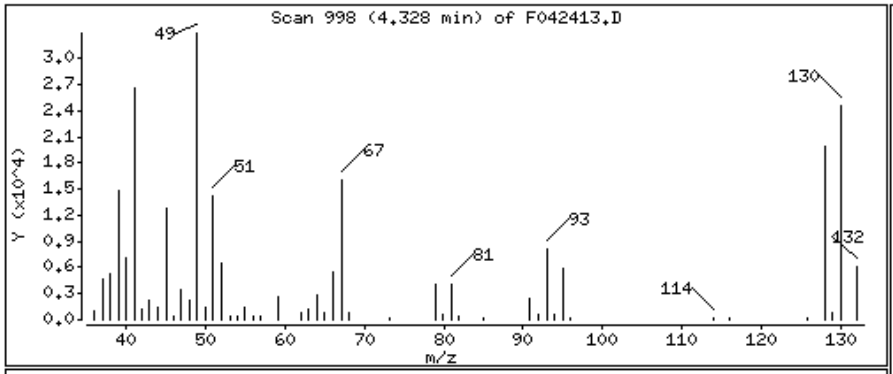
Operator: TS

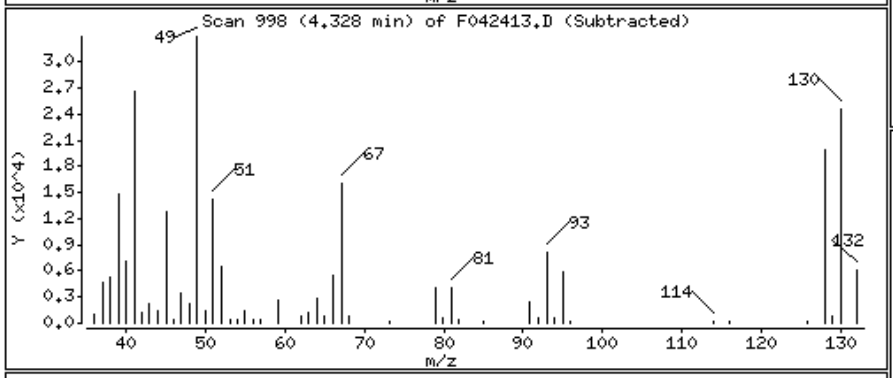
Column phase: DB624

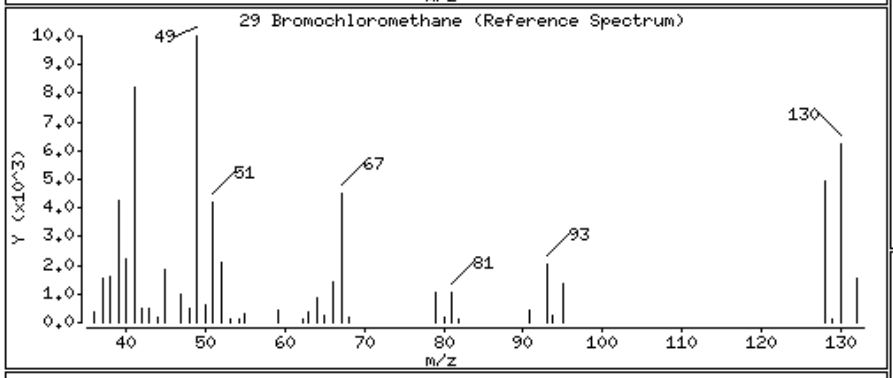
Column diameter: 0.18

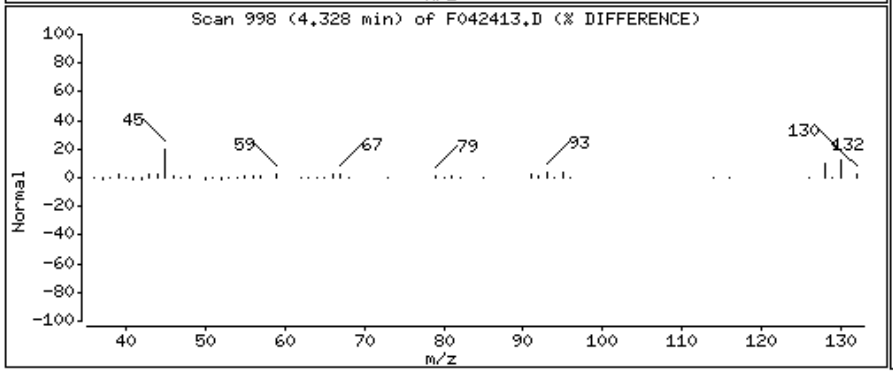
29 Bromochloromethane

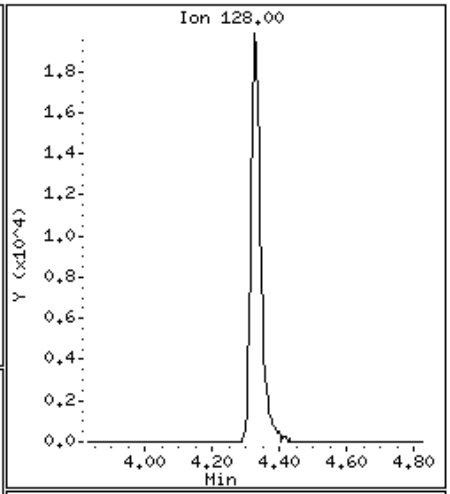
Concentration: 51.81 ug/l

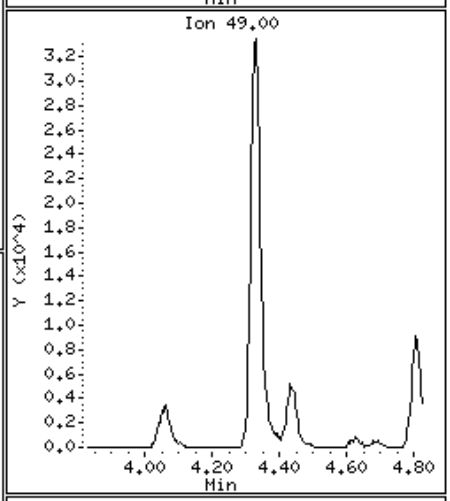


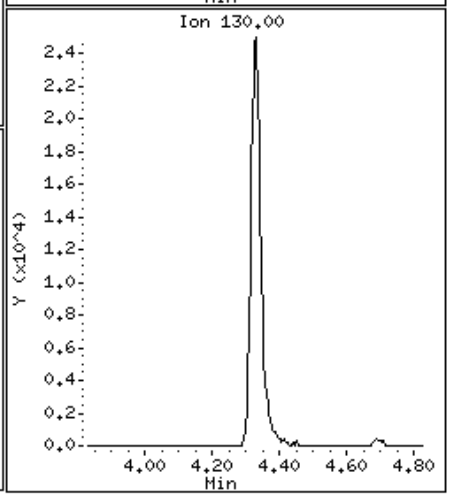












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 30

Date : 24-APR-2024 13:44

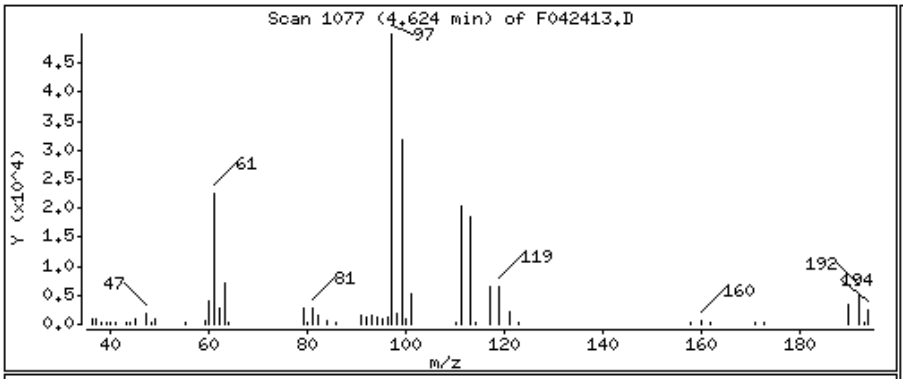
Client ID: VSTD050 Instrument: voa10.i

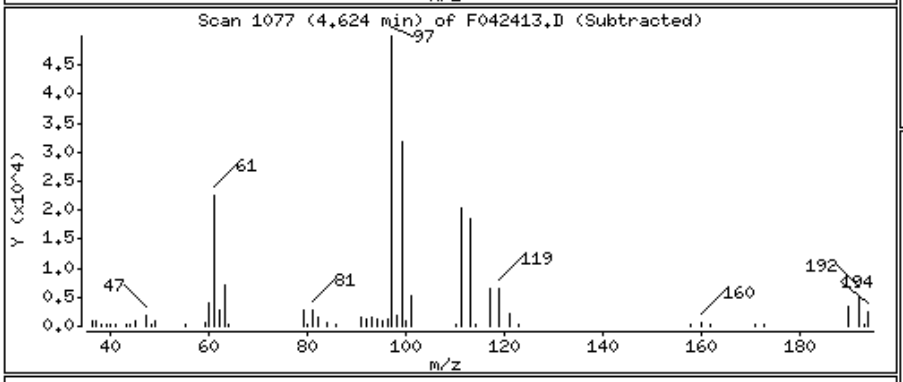
Sample Info: VSTD050;VSTD050;2;;ICV

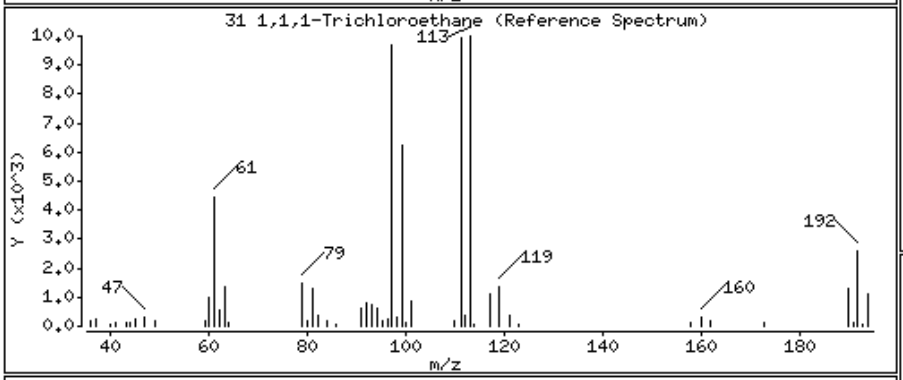
Purge Volume: 5.0 Operator: TS

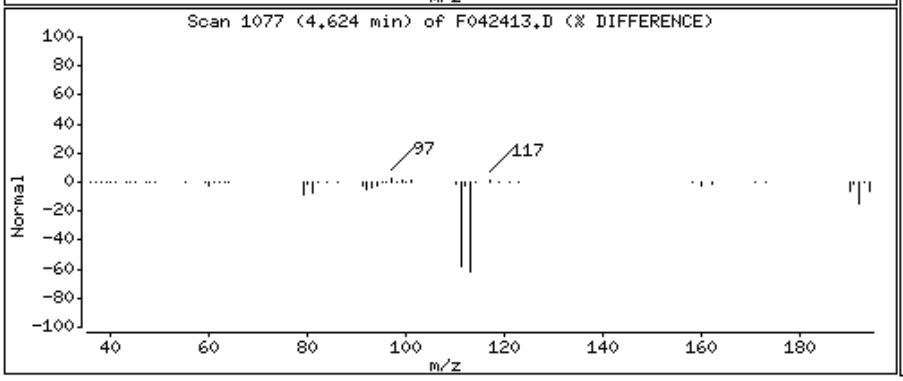
Column phase: DB624 Column diameter: 0.18

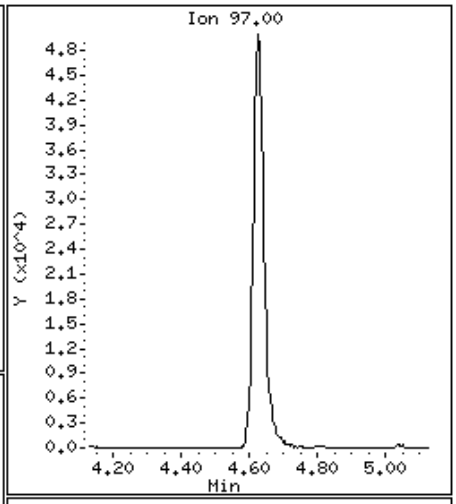
31 1,1,1-Trichloroethane Concentration: 48.81 ug/l

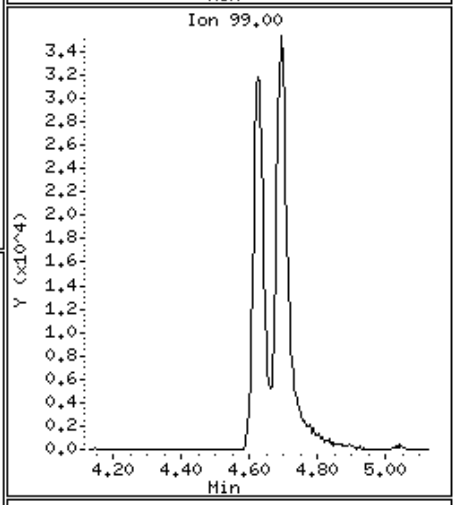


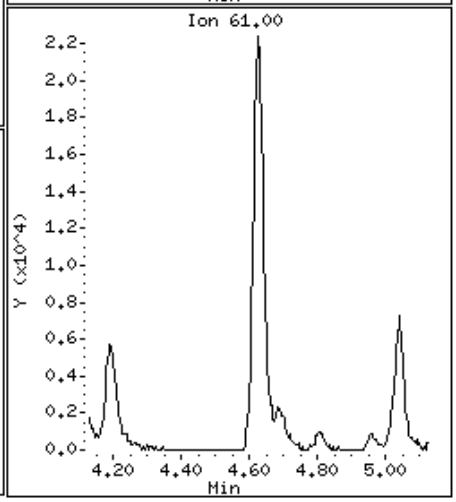












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 31

Date : 24-APR-2024 13:44

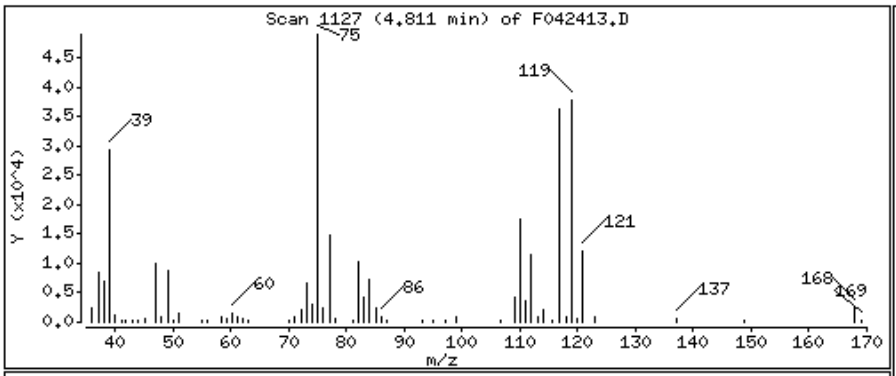
Client ID: VSTD050 Instrument: voa10.i

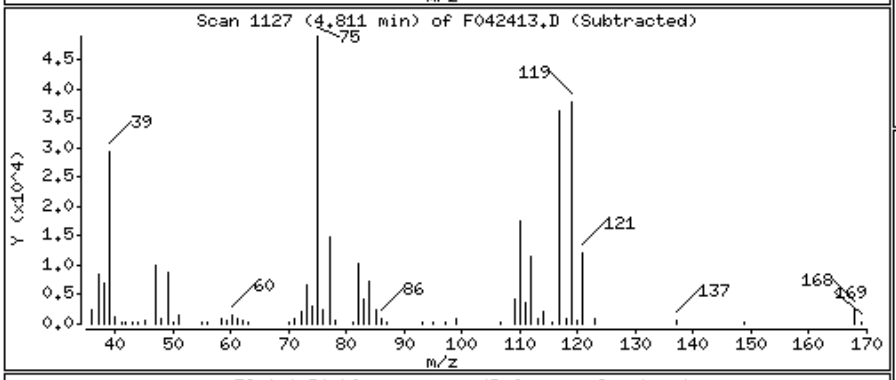
Sample Info: VSTD050;VSTD050;2;;ICV

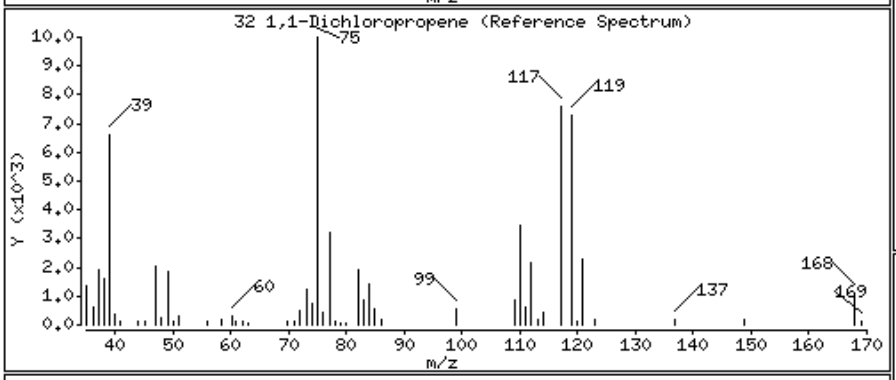
Purge Volume: 5.0 Operator: TS

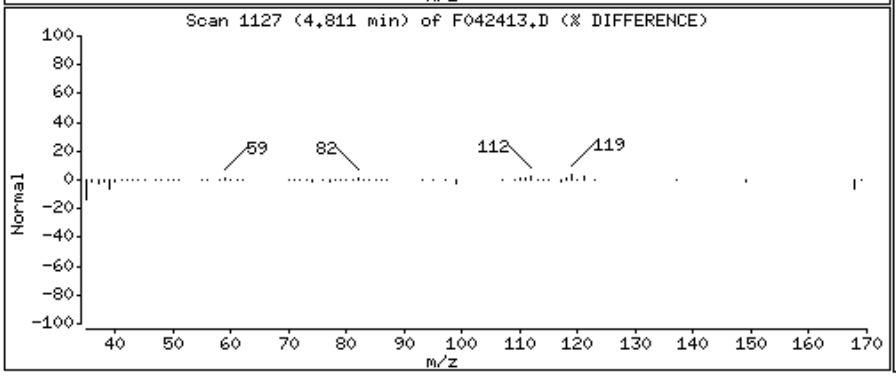
Column phase: DB624 Column diameter: 0.18

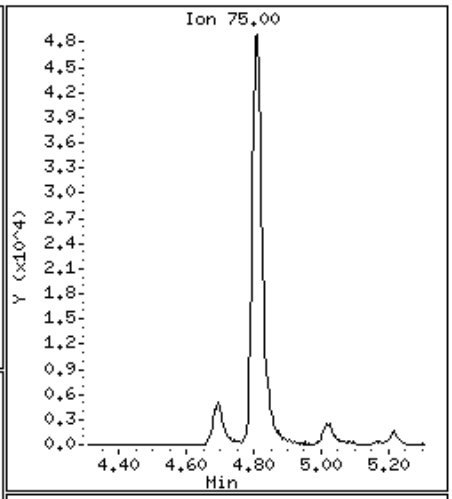
32 1,1-Dichloropropene Concentration: 47.07 ug/l

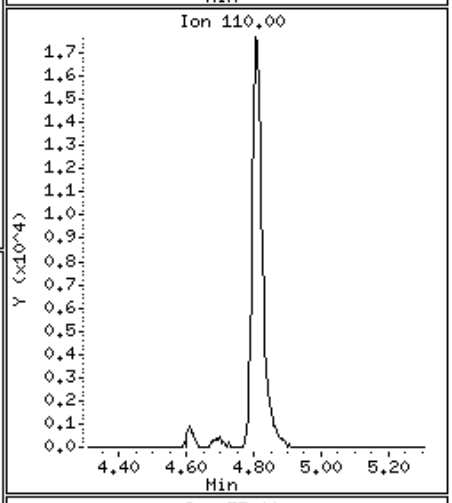


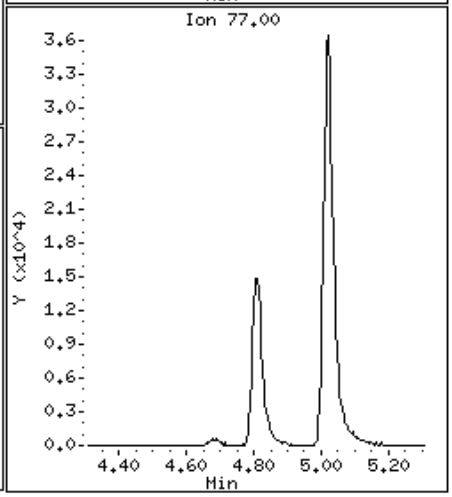












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 32

Date : 24-APR-2024 13:44

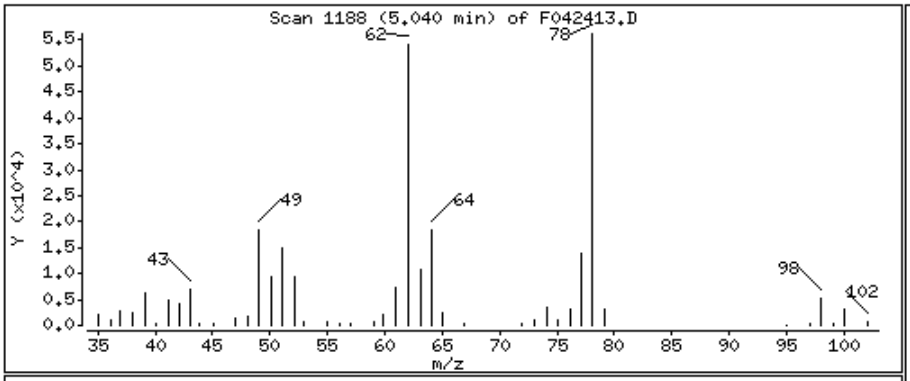
Client ID: VSTD050 Instrument: voa10.i

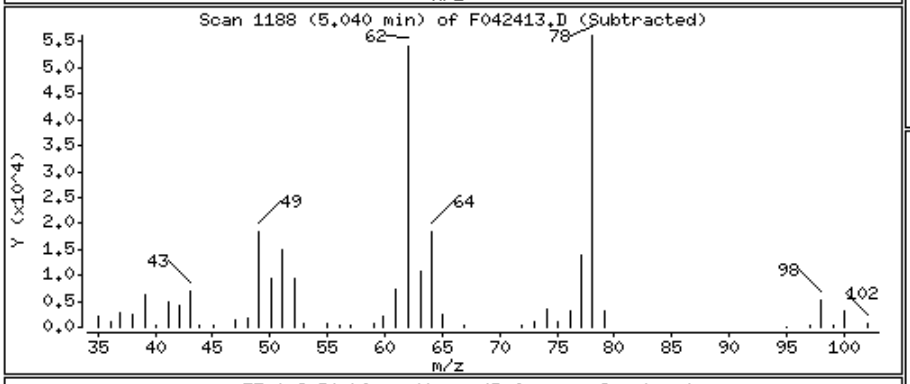
Sample Info: VSTD050;VSTD050;2;;ICV

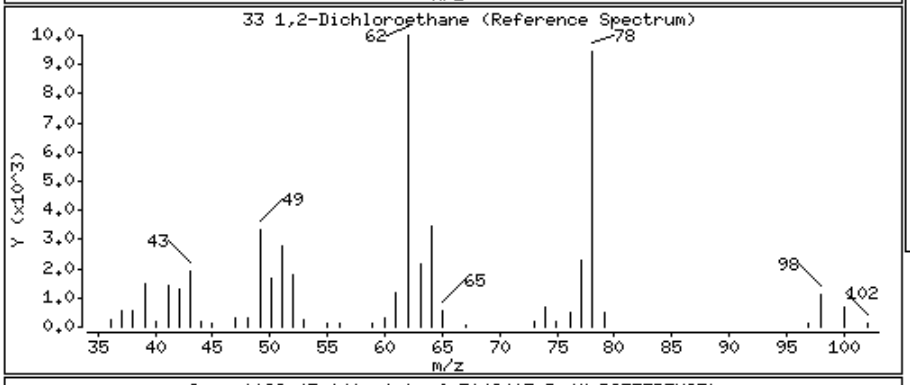
Purge Volume: 5.0 Operator: TS

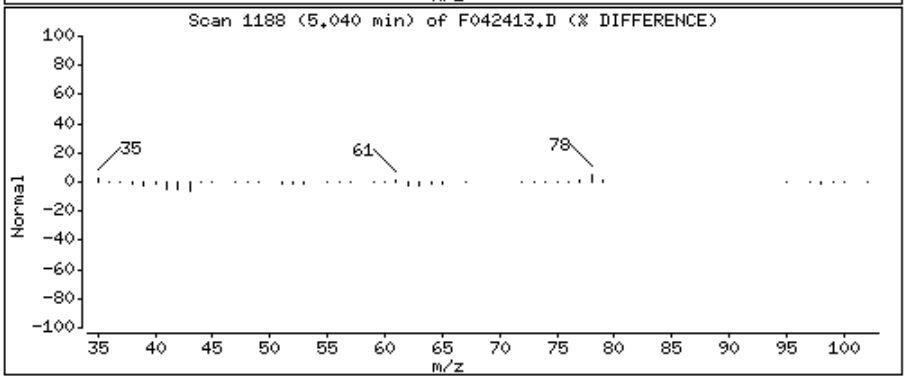
Column phase: DB624 Column diameter: 0.18

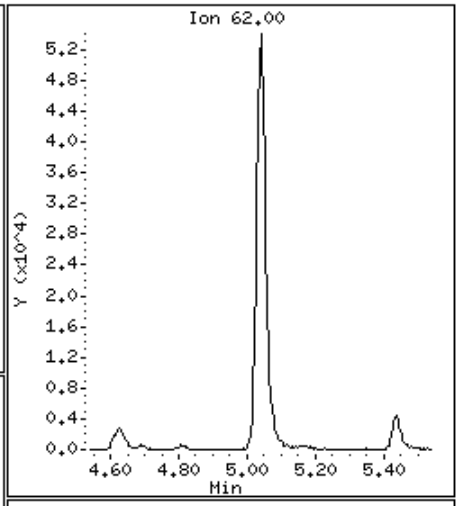
33 1,2-Dichloroethane Concentration: 50.80 ug/l

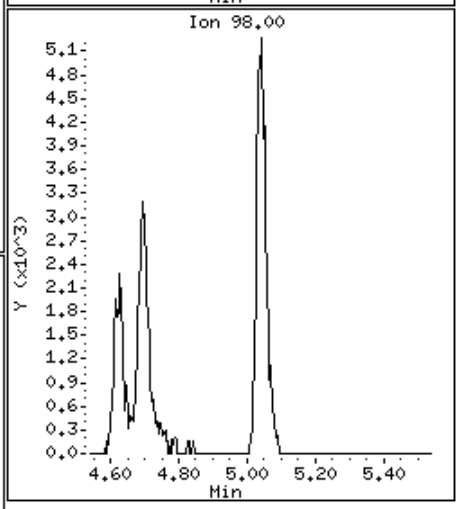












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 33

Date : 24-APR-2024 13:44

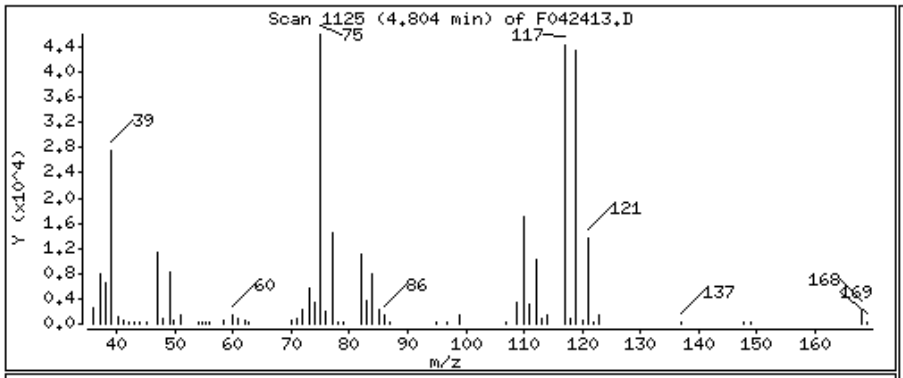
Client ID: VSTD050 Instrument: voa10.i

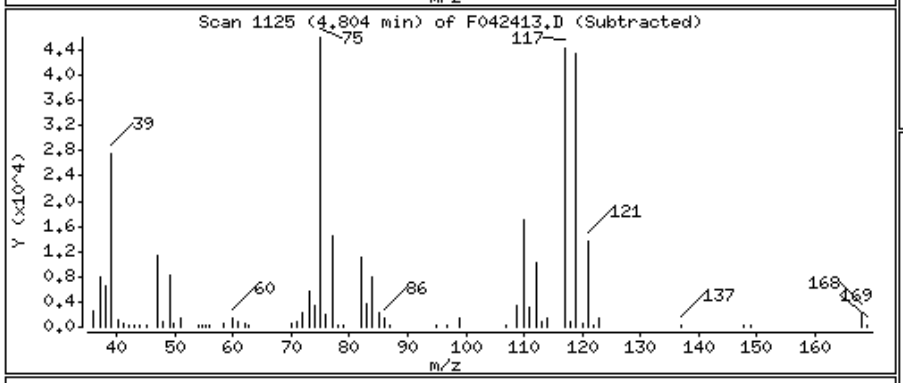
Sample Info: VSTD050;VSTD050;2;;ICV

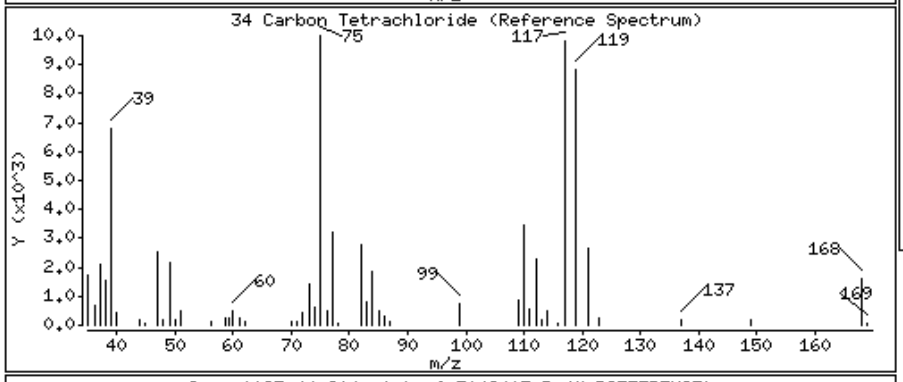
Purge Volume: 5.0 Operator: TS

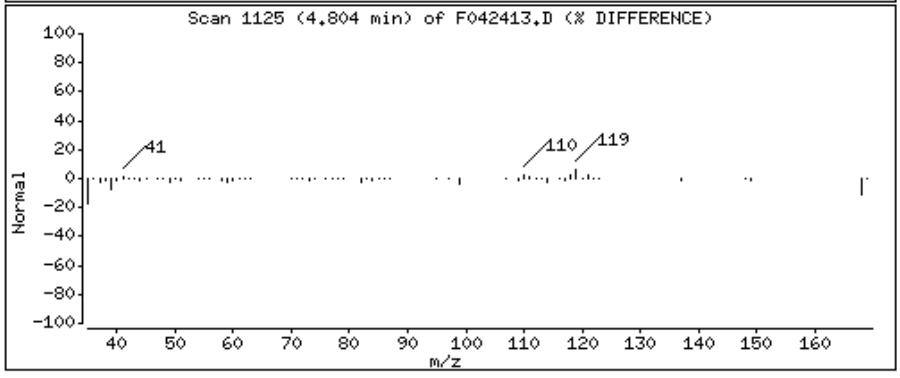
Column phase: DB624 Column diameter: 0.18

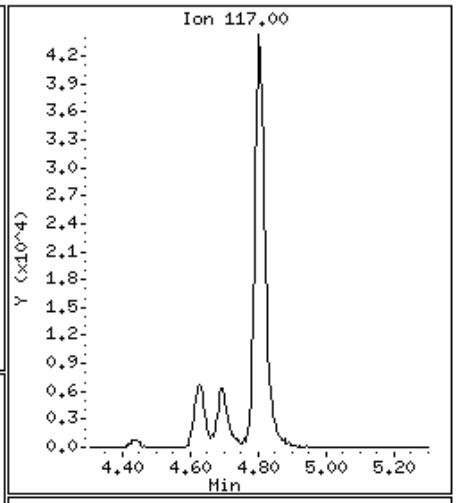
34 Carbon Tetrachloride Concentration: 50.88 ug/l

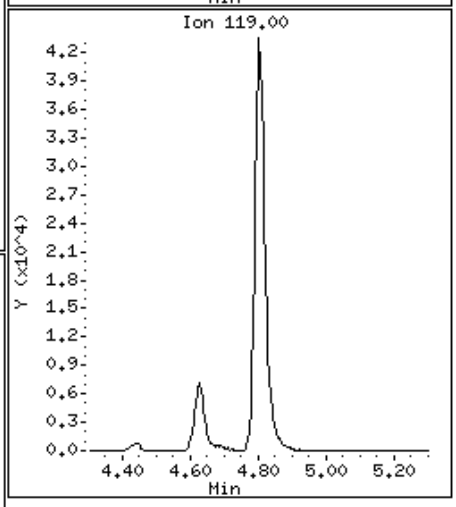












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 34

Date : 24-APR-2024 13:44

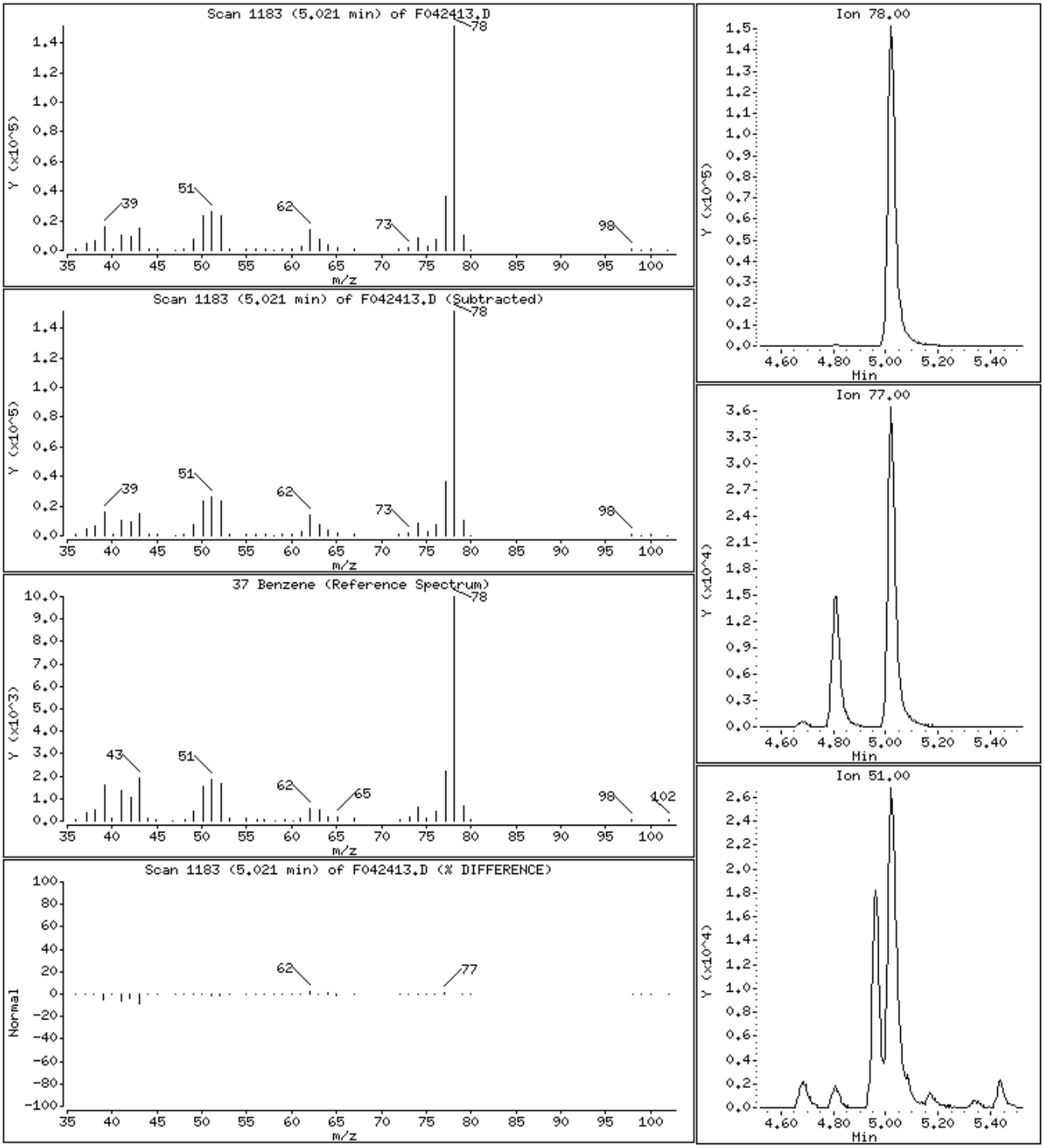
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

37 Benzene Concentration: 51.19 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 35

Date : 24-APR-2024 13:44

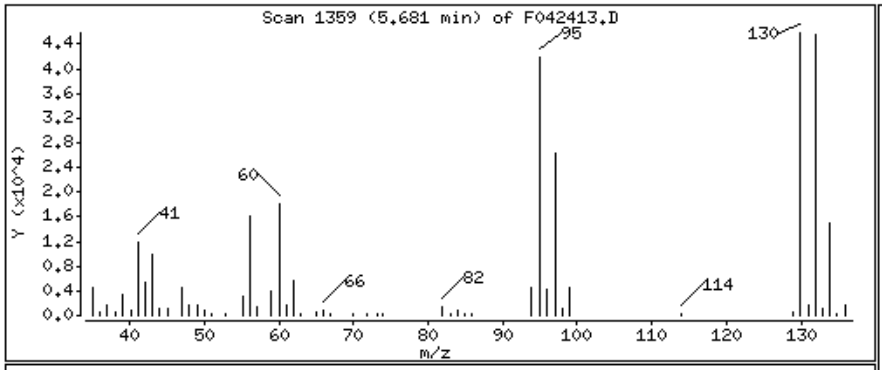
Client ID: VSTD050 Instrument: voa10.i

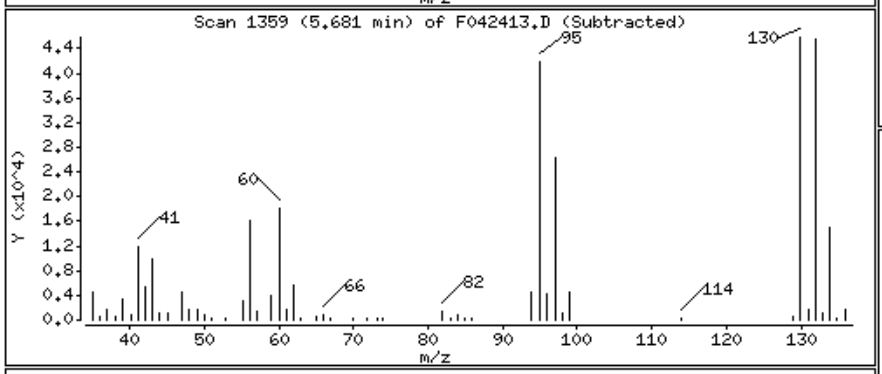
Sample Info: VSTD050;VSTD050;2;;ICV

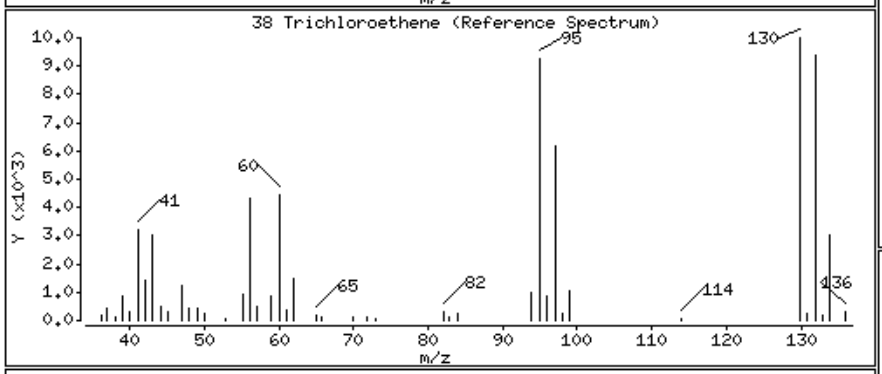
Purge Volume: 5.0 Operator: TS

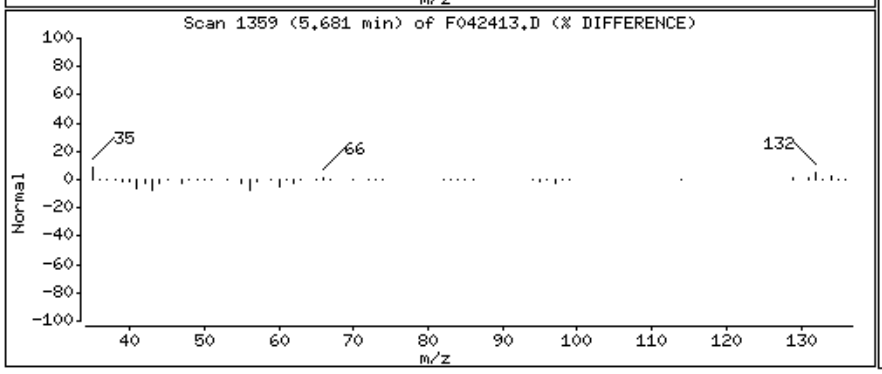
Column phase: DB624 Column diameter: 0.18

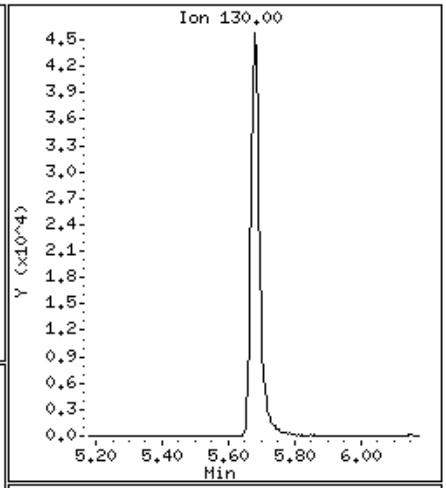
38 Trichloroethene Concentration: 48.36 ug/l

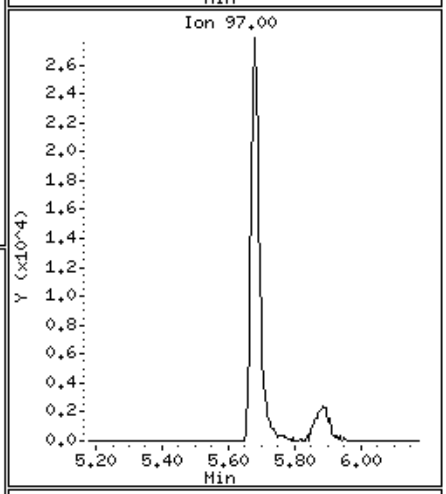


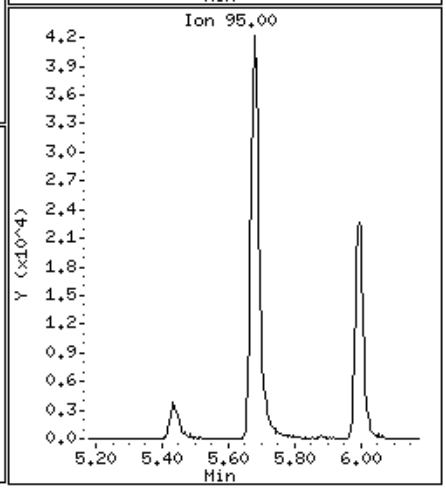












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

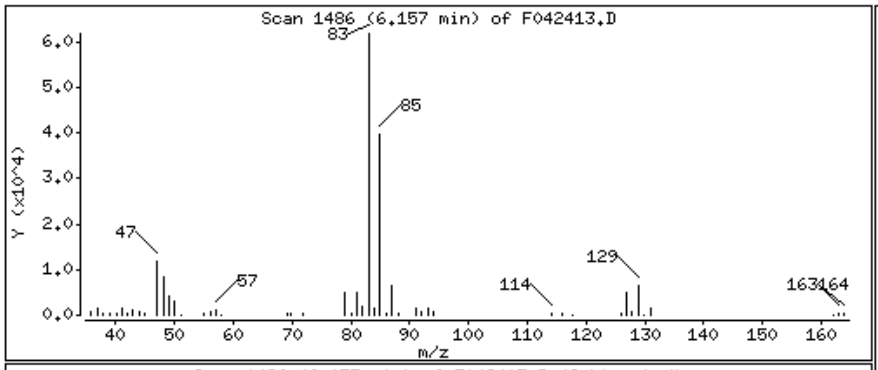
Operator: TS

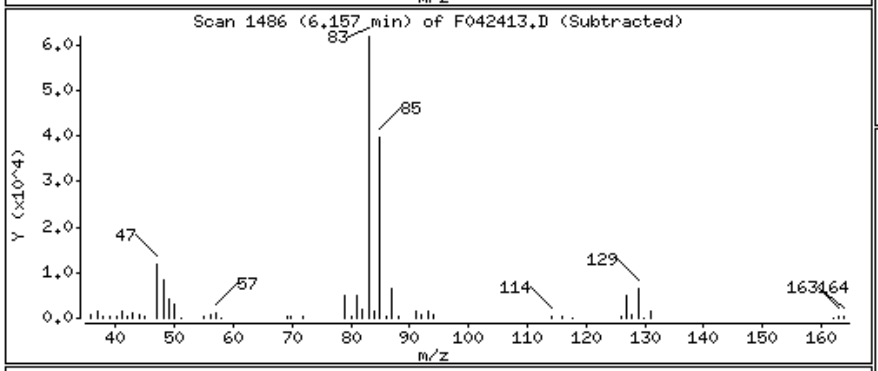
Column phase: DB624

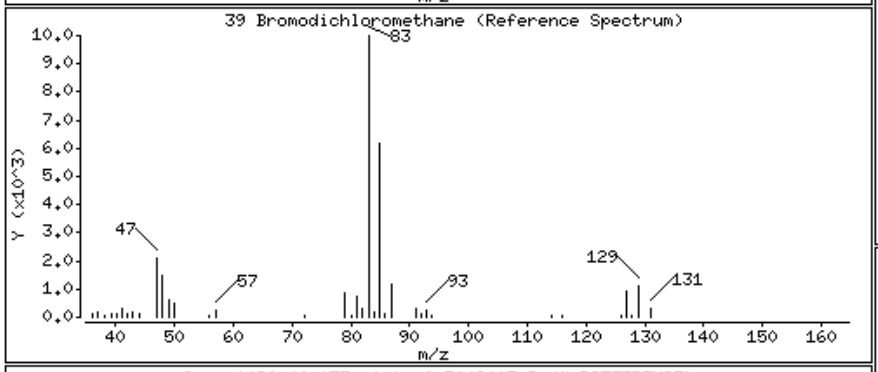
Column diameter: 0.18

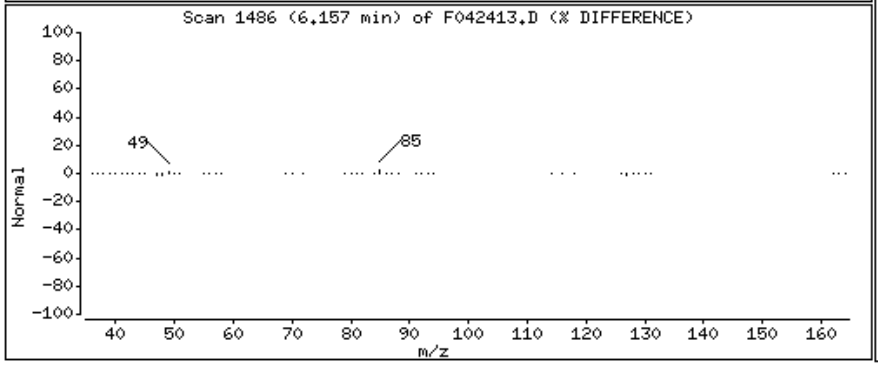
39 Bromodichloromethane

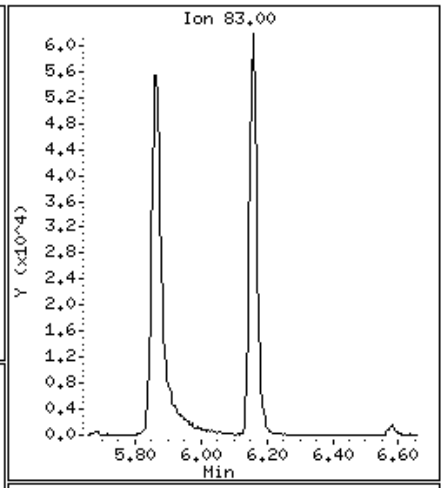
Concentration: 53.89 ug/l

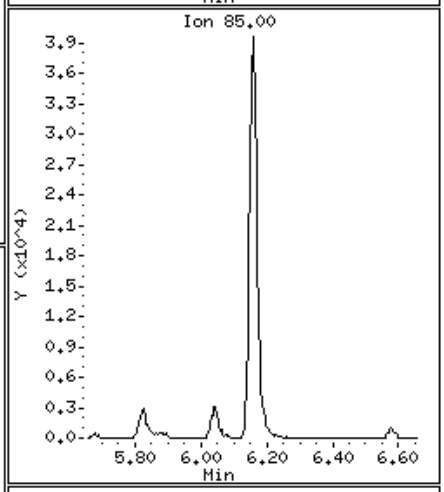


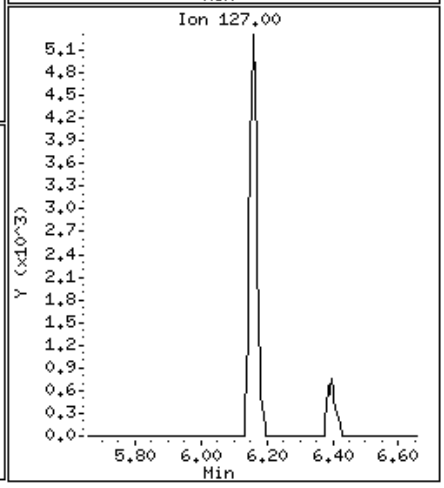












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 37

Date : 24-APR-2024 13:44

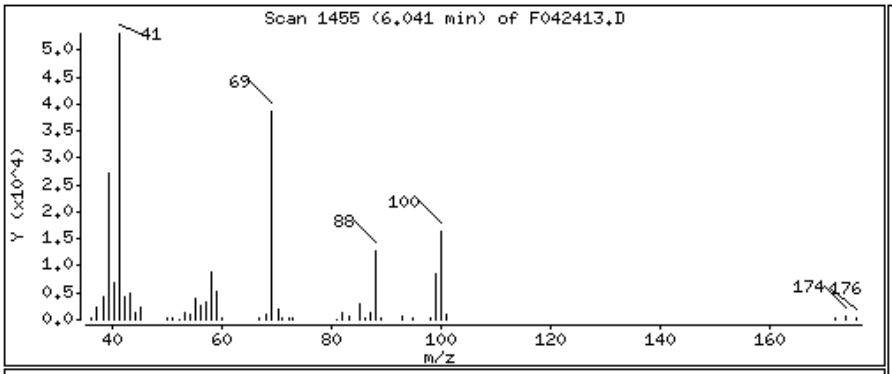
Client ID: VSTD050 Instrument: voa10.i

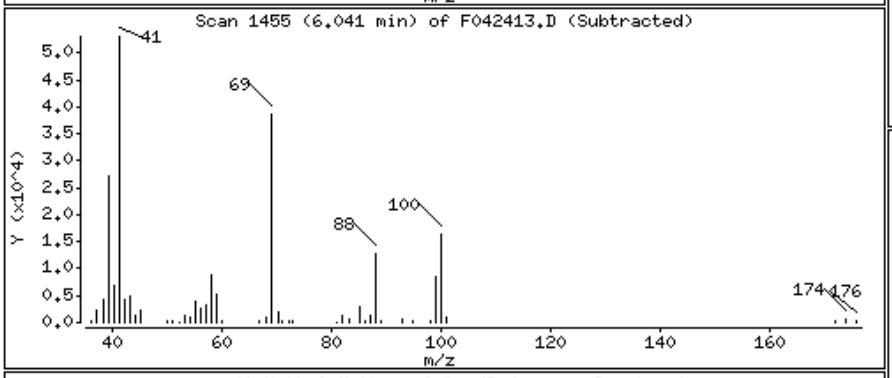
Sample Info: VSTD050;VSTD050;2;;ICV

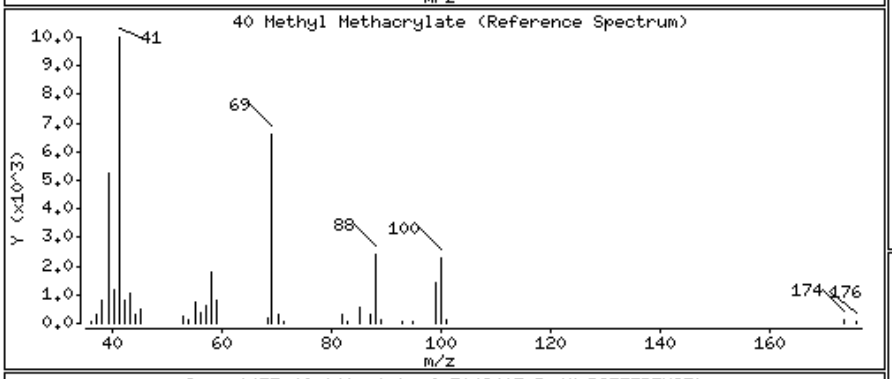
Purge Volume: 5.0 Operator: TS

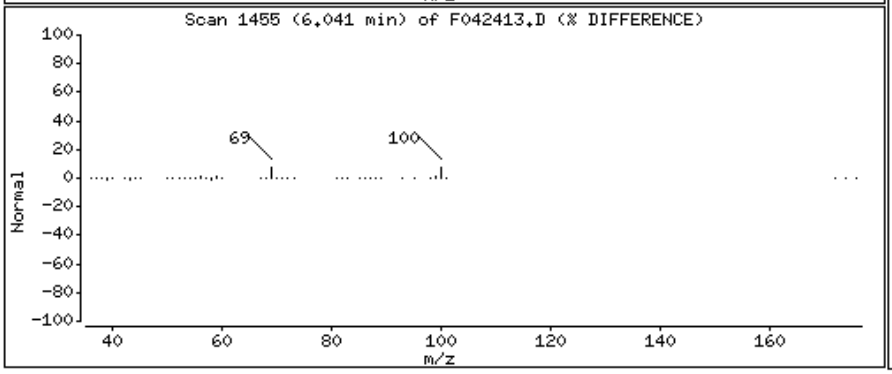
Column phase: DB624 Column diameter: 0.18

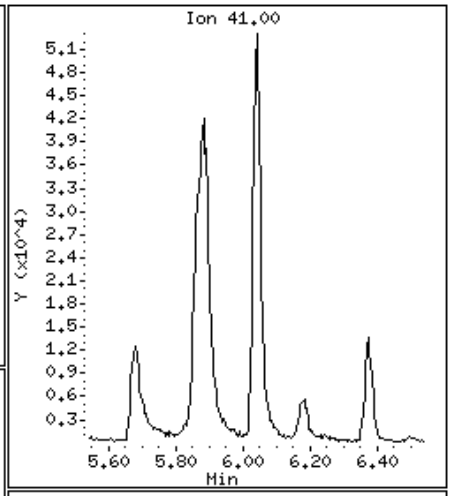
40 Methyl Methacrylate Concentration: 54.55 ug/l

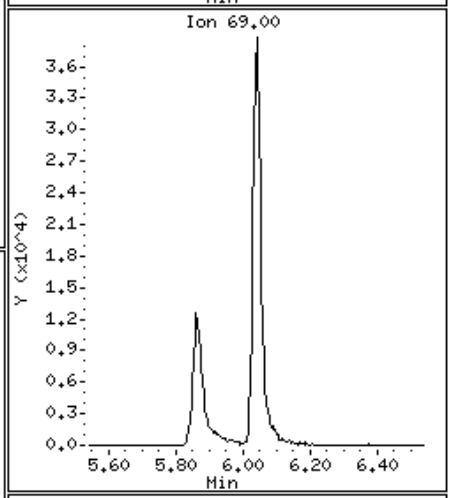


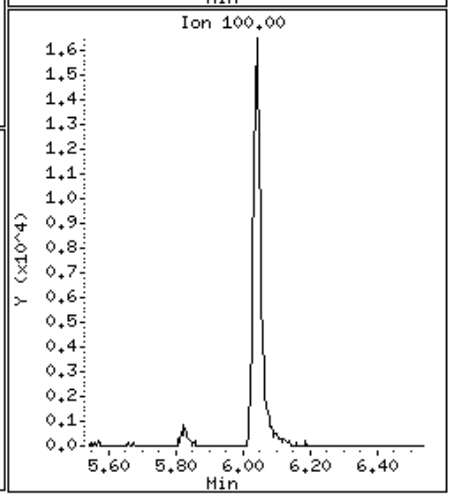












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 38

Date : 24-APR-2024 13:44

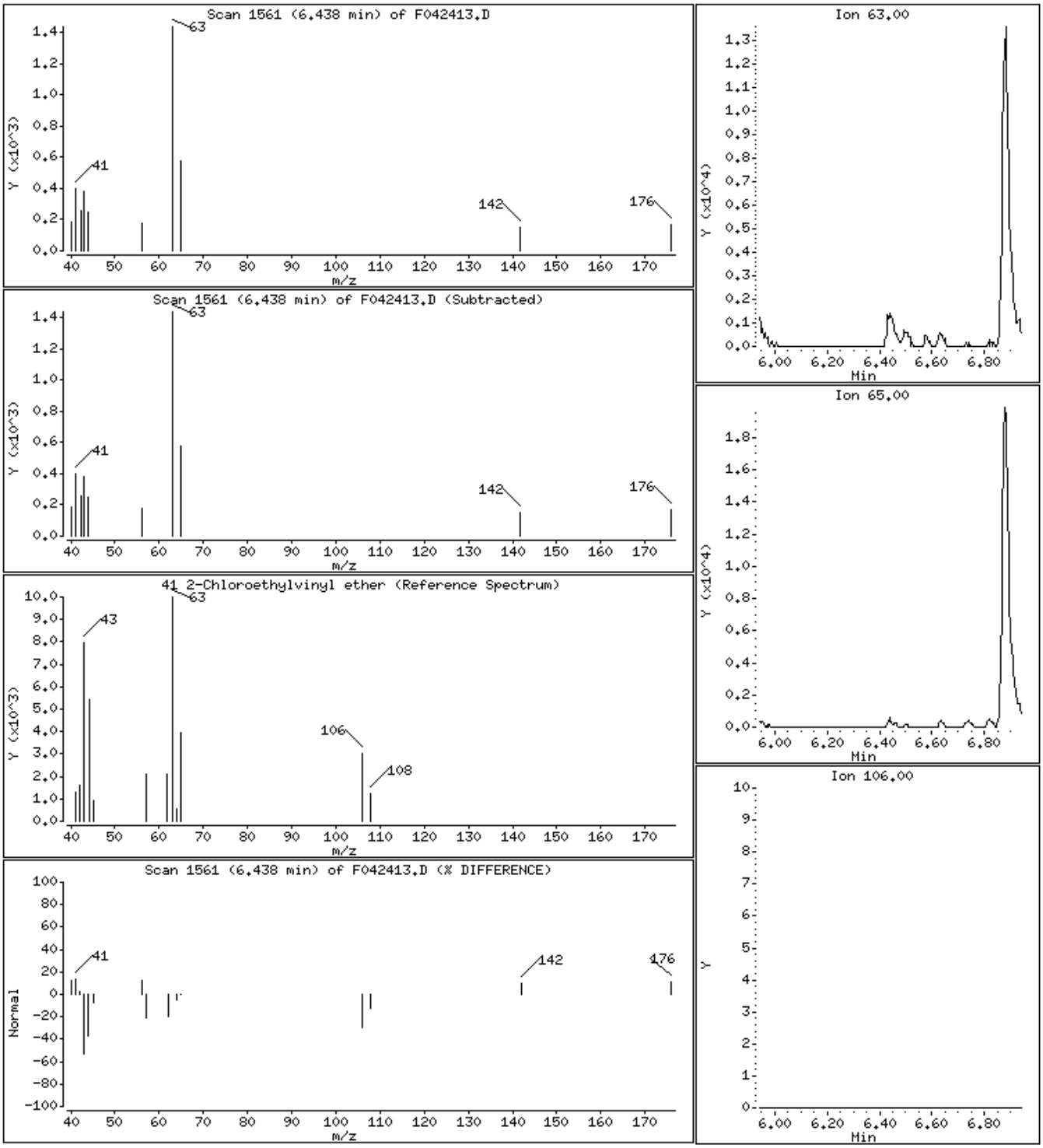
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

41 2-Chloroethylvinyl ether Concentration: 119.87 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 39

Date : 24-APR-2024 13:44

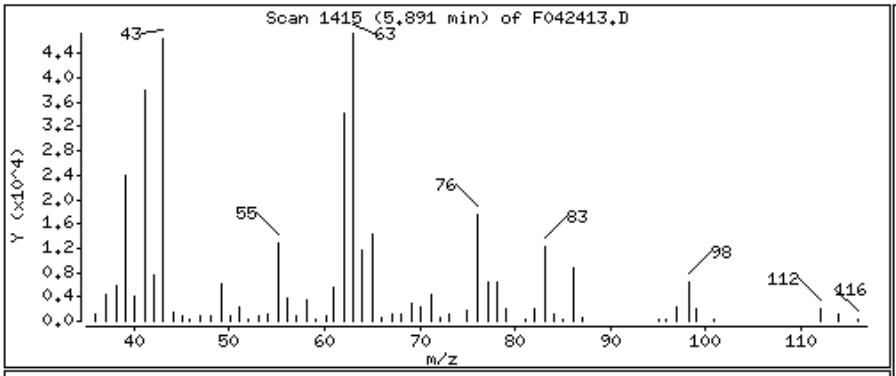
Client ID: VSTD050 Instrument: voa10.i

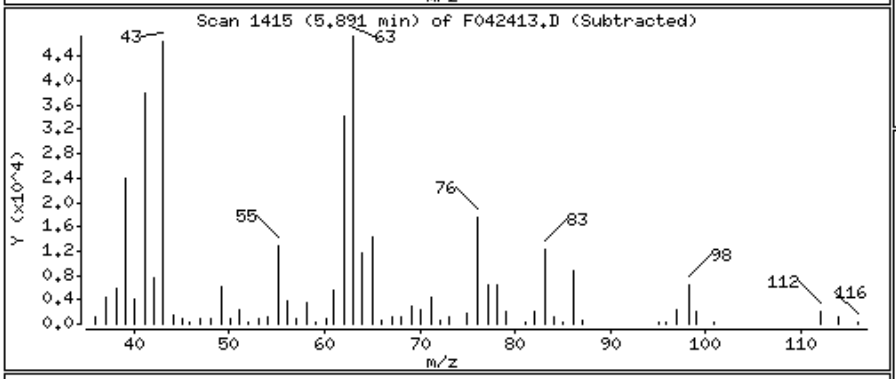
Sample Info: VSTD050;VSTD050;2;;ICV

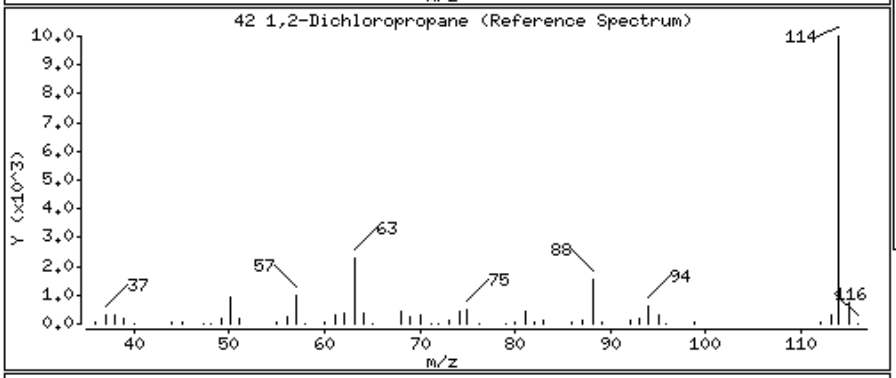
Purge Volume: 5.0 Operator: TS

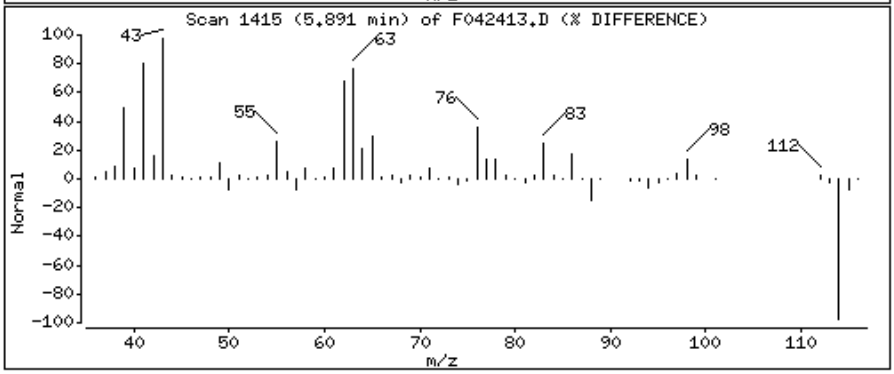
Column phase: DB624 Column diameter: 0.18

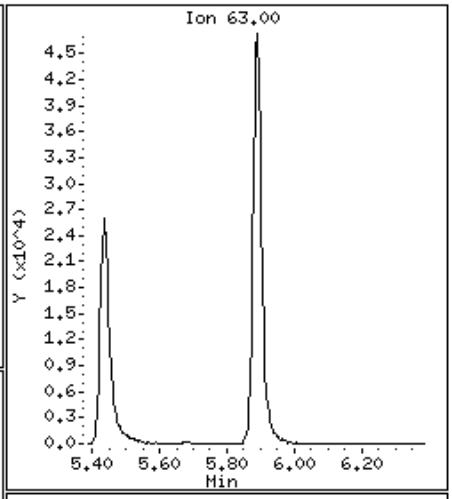
42 1,2-Dichloropropane Concentration: 53.44 ug/l

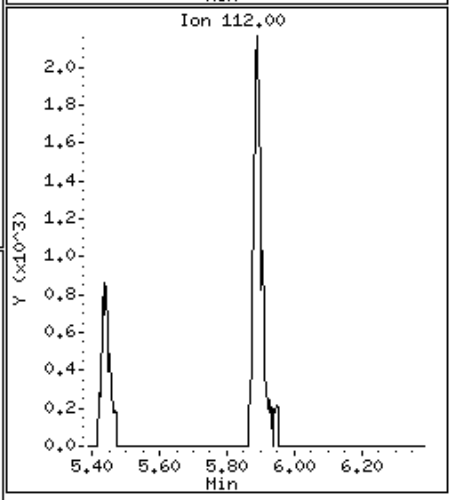












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

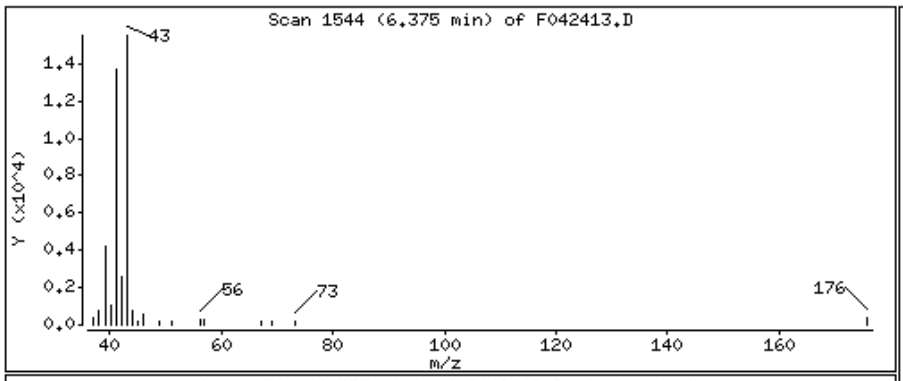
Operator: TS

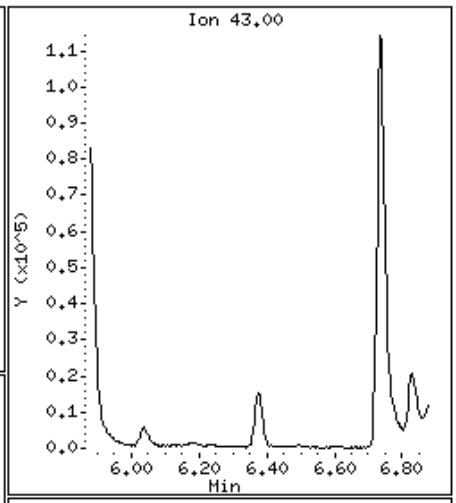
Column phase: DB624

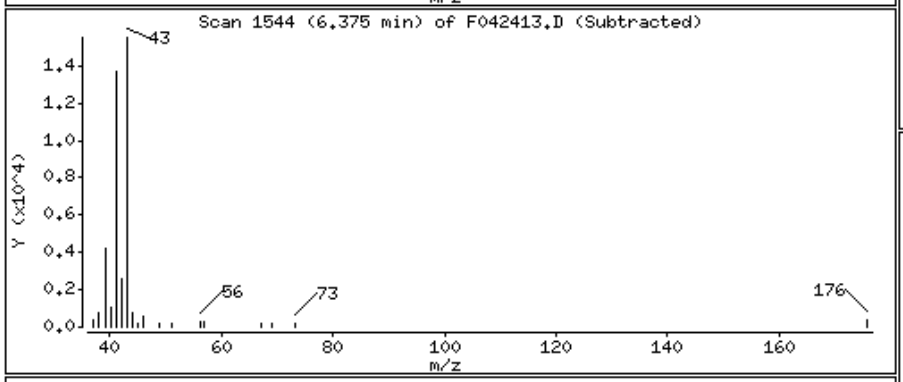
Column diameter: 0.18

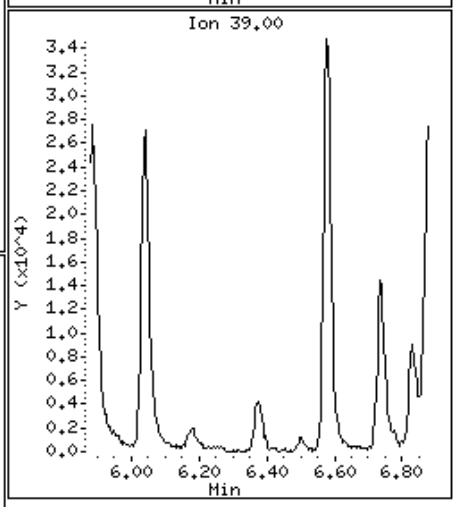
43 2-Nitropropane

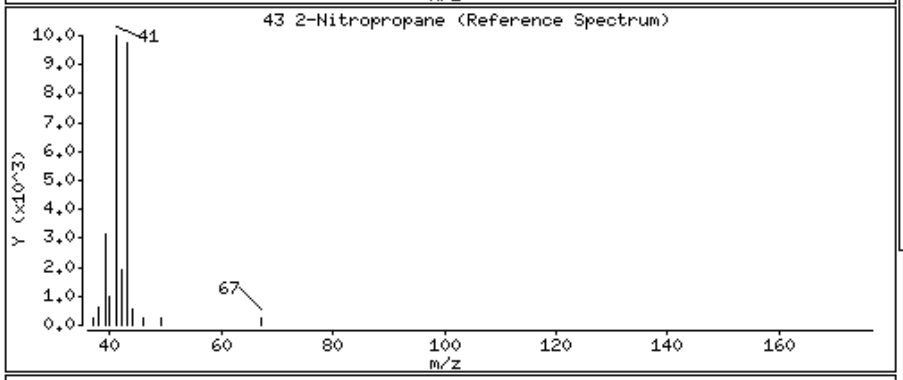
Concentration: 50.45 ug/l

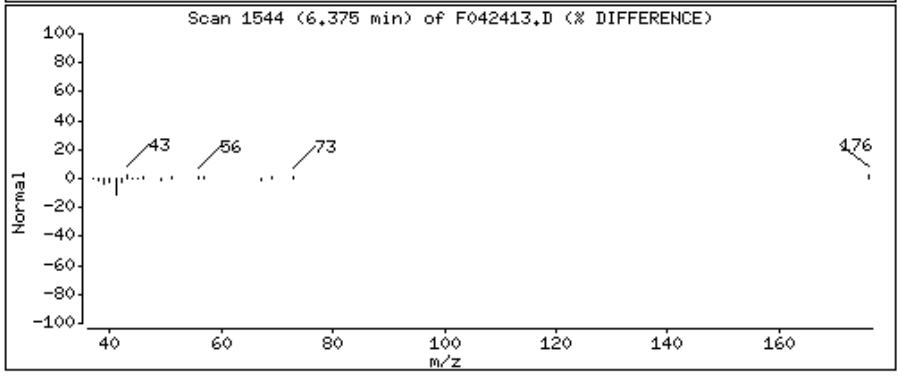












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 41

Date : 24-APR-2024 13:44

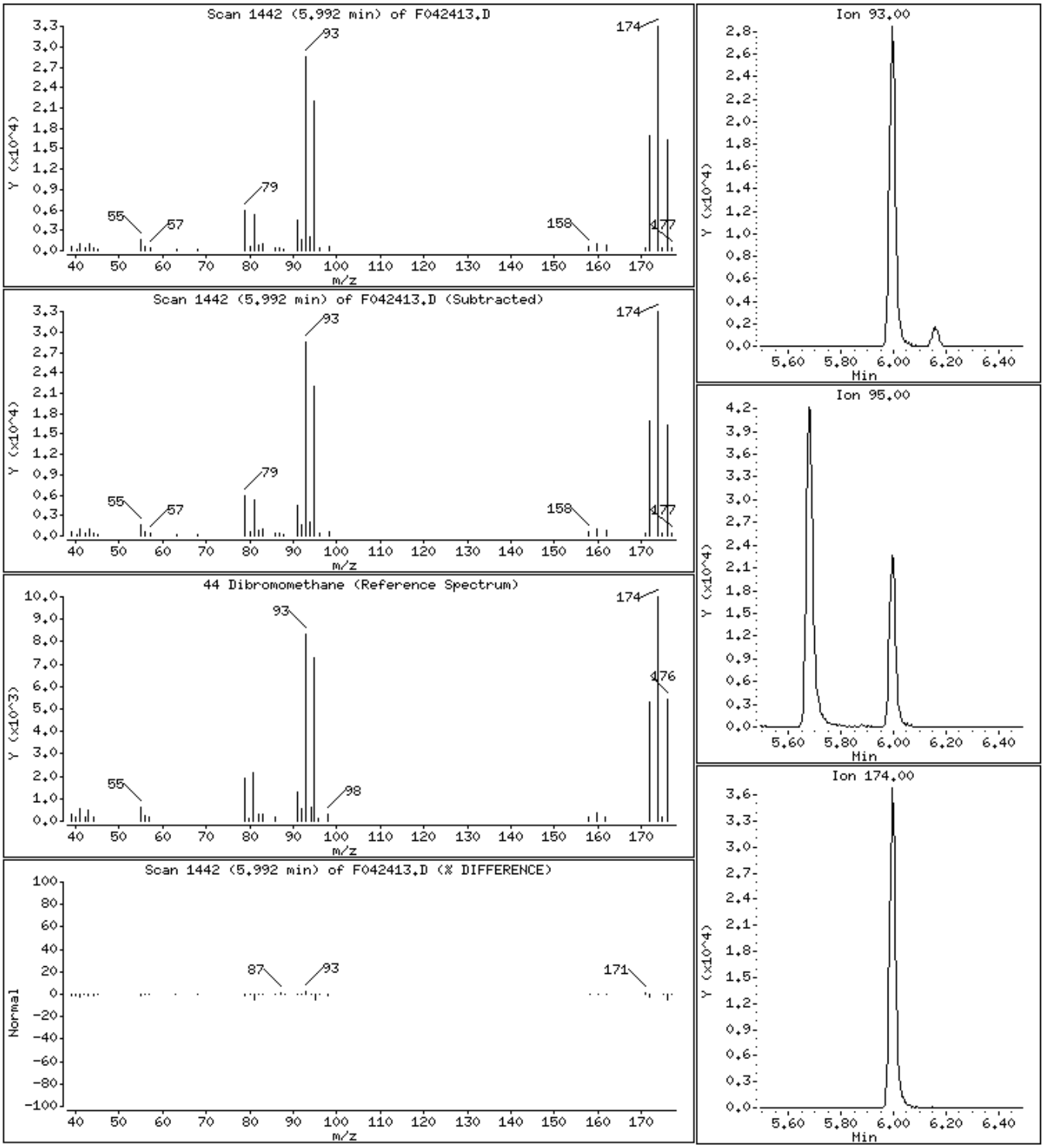
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

44 Dibromomethane Concentration: 52.19 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 42

Date : 24-APR-2024 13:44

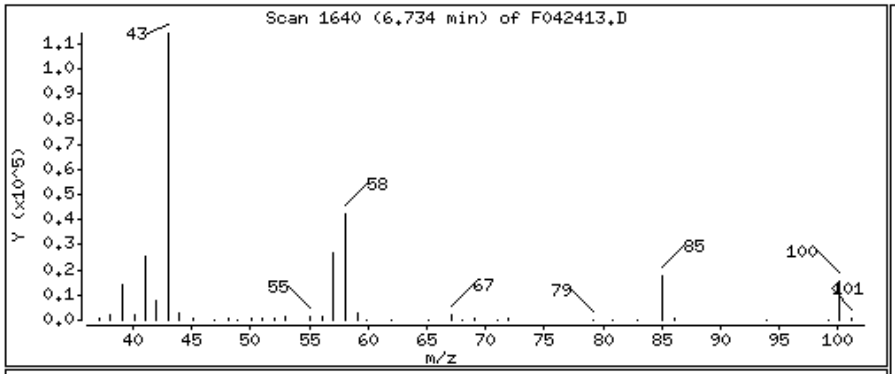
Client ID: VSTD050 Instrument: voa10.i

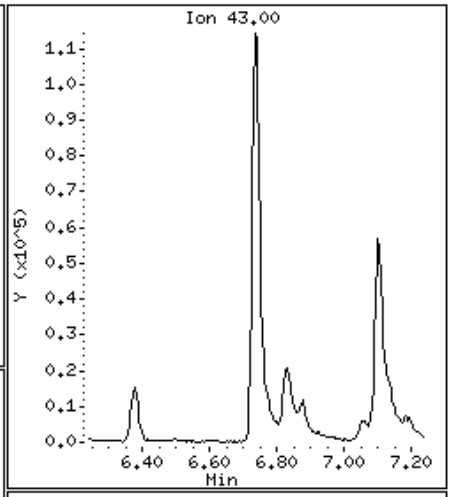
Sample Info: VSTD050;VSTD050;2;;ICV

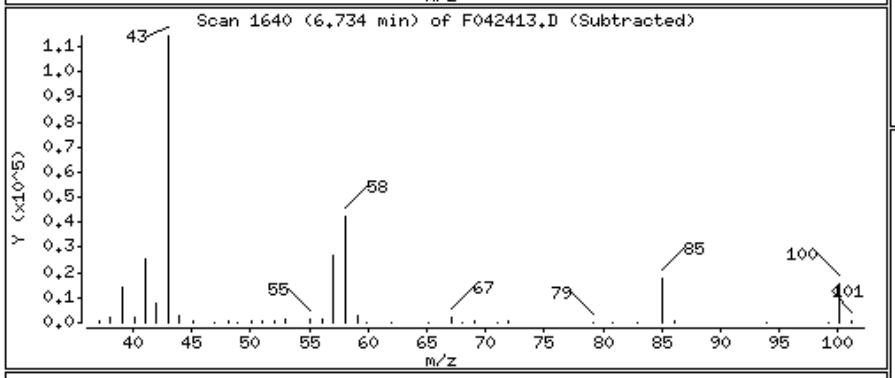
Purge Volume: 5.0 Operator: TS

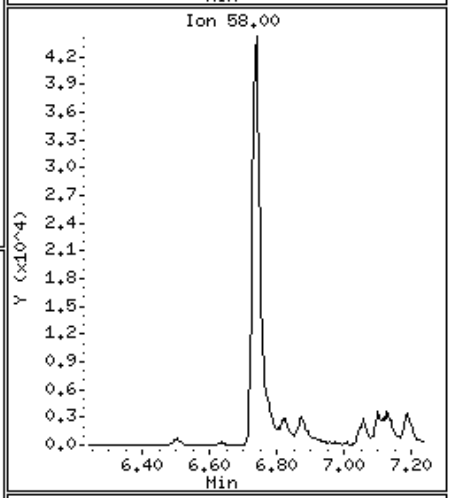
Column phase: DB624 Column diameter: 0.18

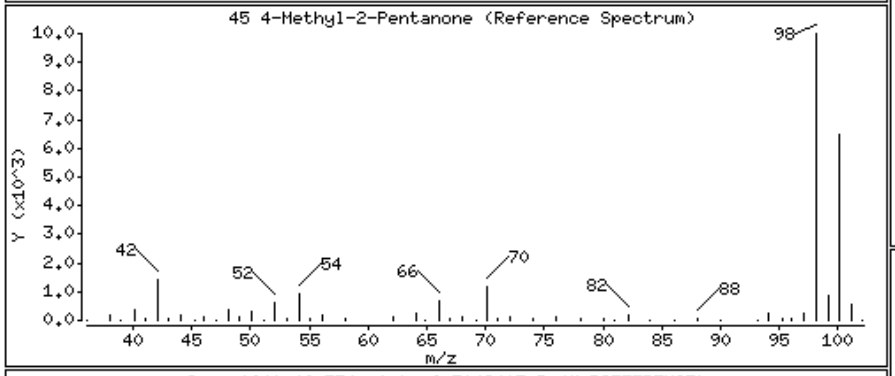
45 4-Methyl-2-Pentanone Concentration: 114.26 ug/l

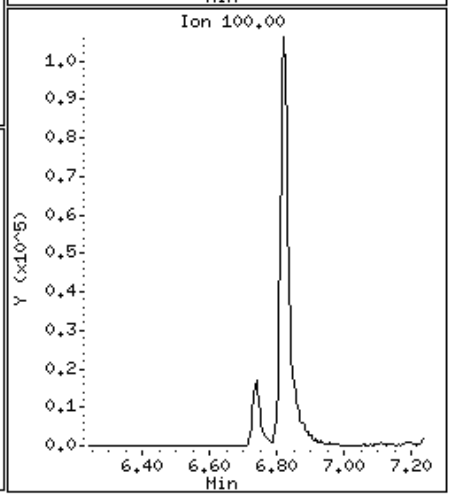


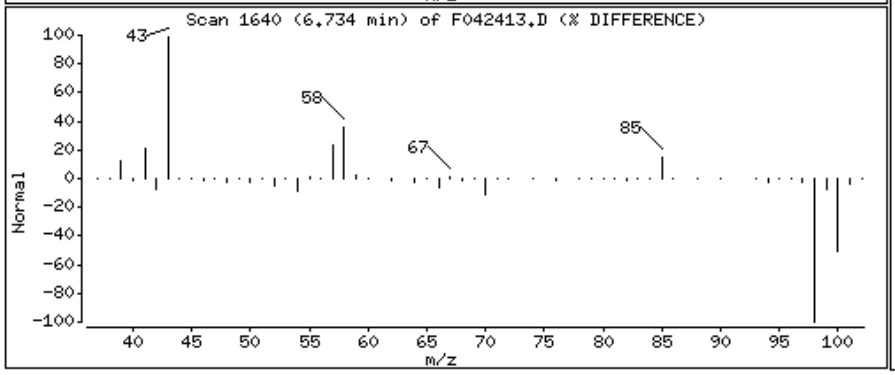












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 43

Date : 24-APR-2024 13:44

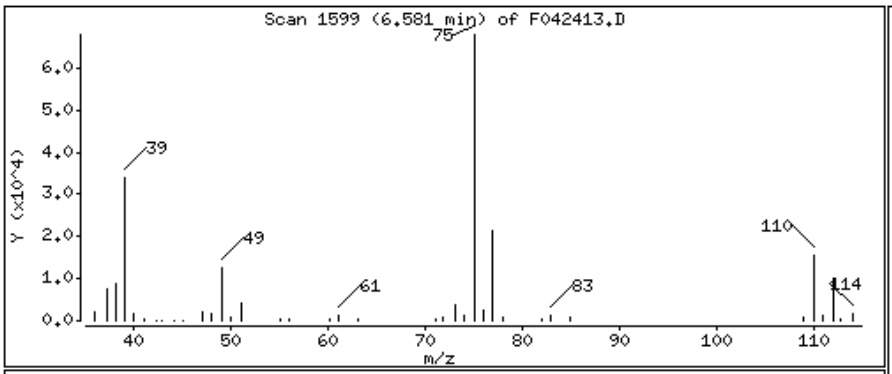
Client ID: VSTD050 Instrument: voa10.i

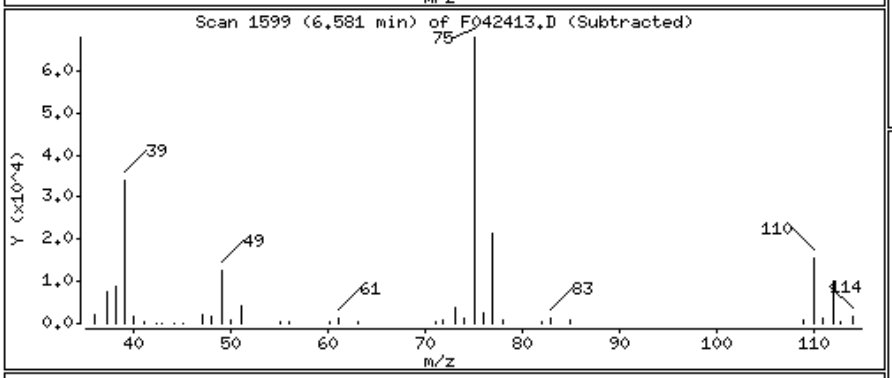
Sample Info: VSTD050;VSTD050;2;;ICV

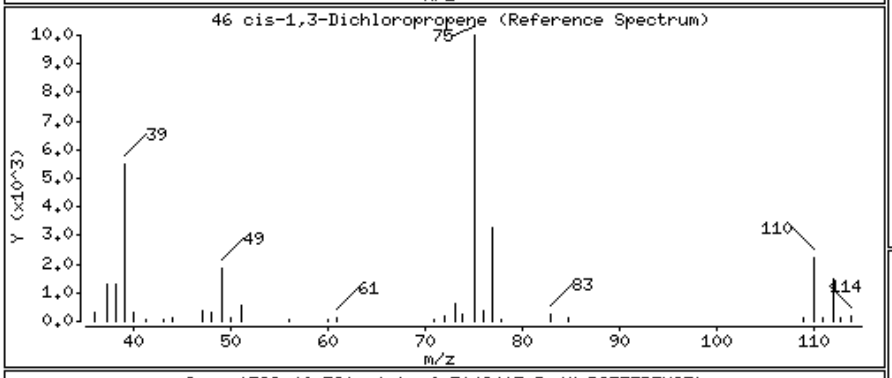
Purge Volume: 5.0 Operator: TS

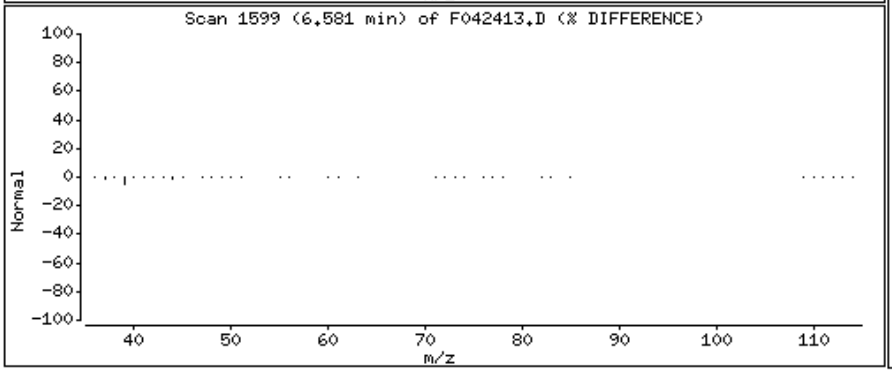
Column phase: DB624 Column diameter: 0.18

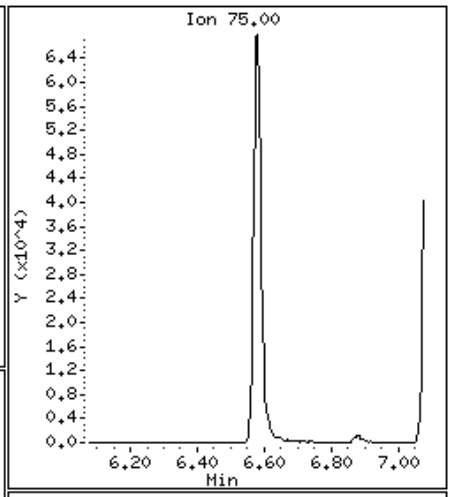
46 cis-1,3-Dichloropropene Concentration: 53.38 ug/l

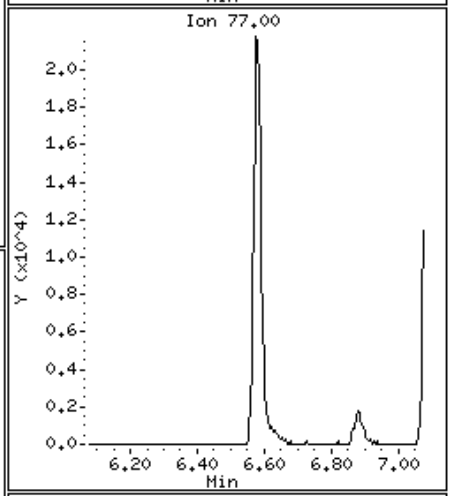


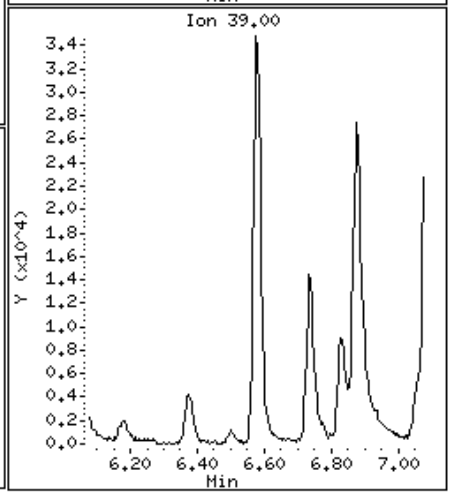












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

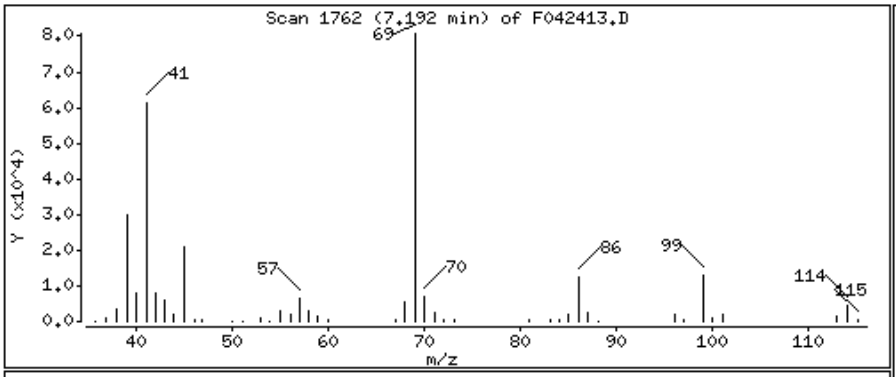
Operator: TS

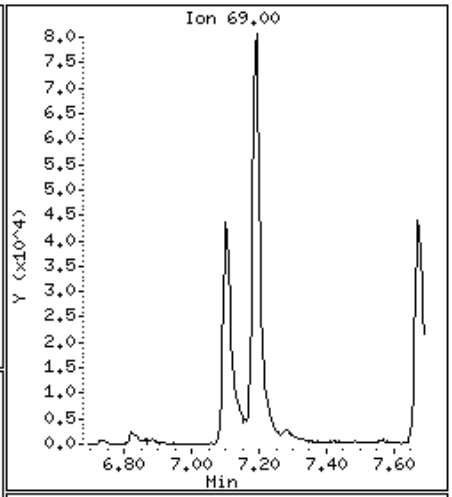
Column phase: DB624

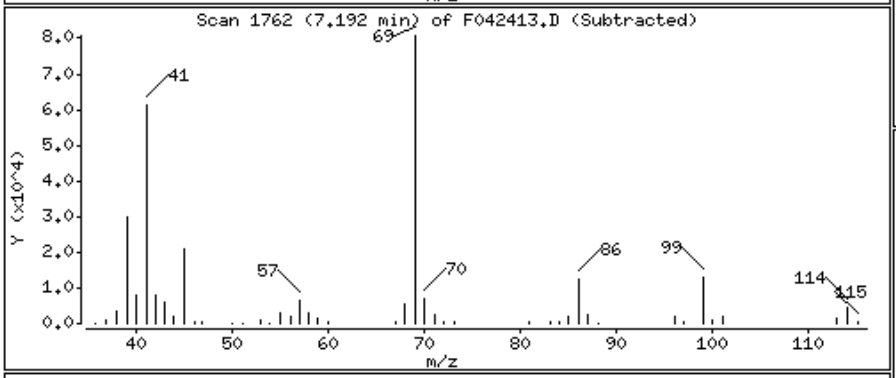
Column diameter: 0.18

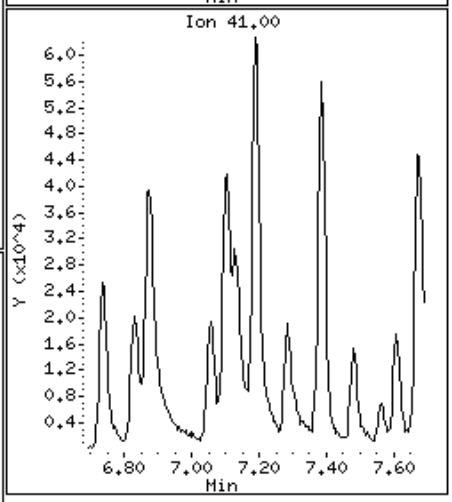
49 Ethyl Methacrylate

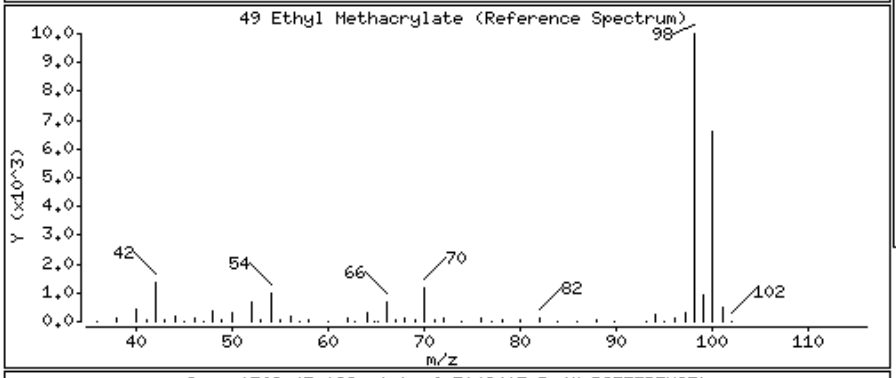
Concentration: 58.36 ug/l

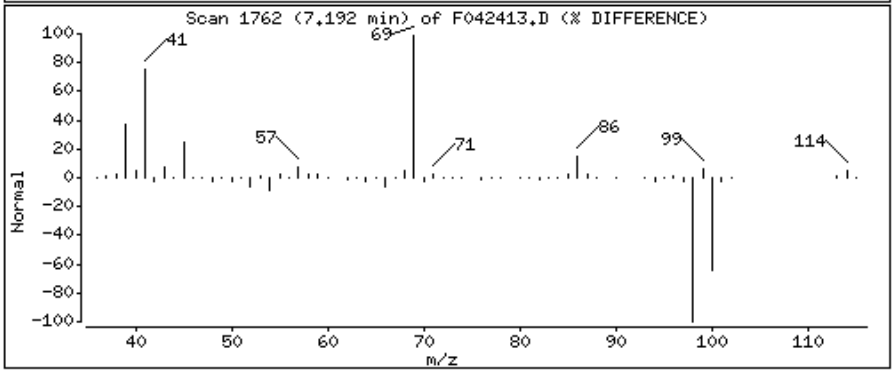












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

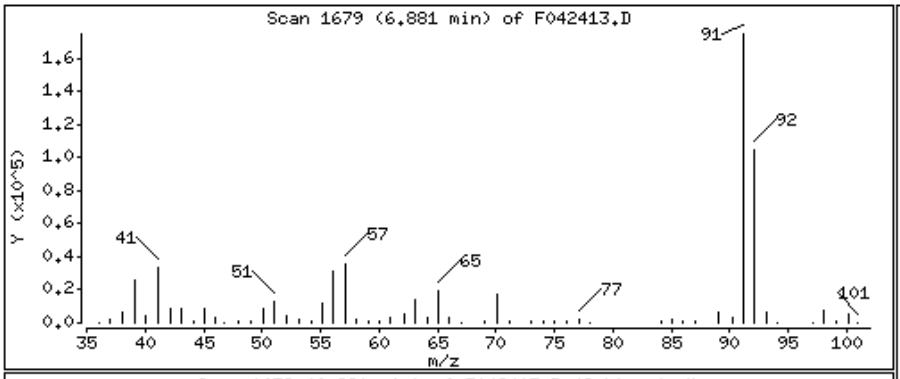
Operator: TS

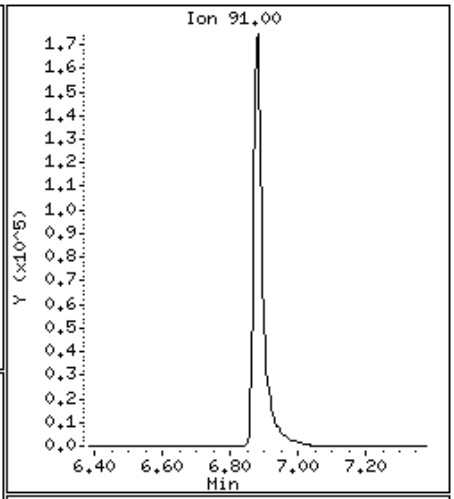
Column phase: DB624

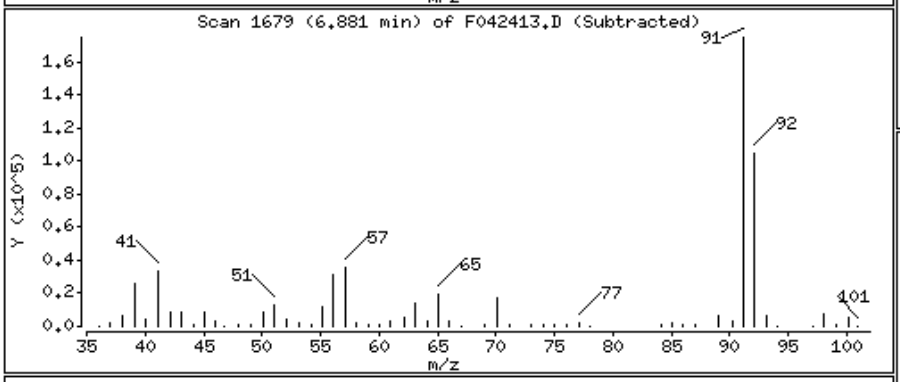
Column diameter: 0.18

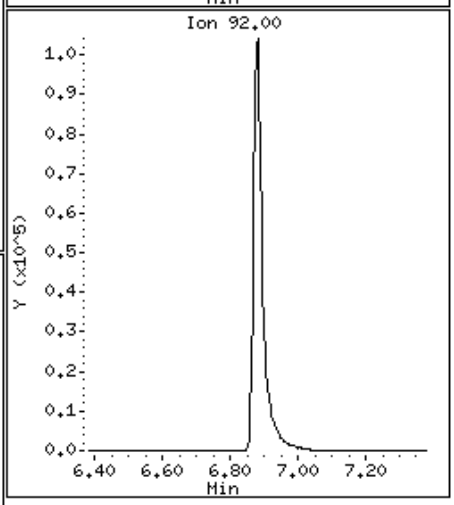
50 Toluene

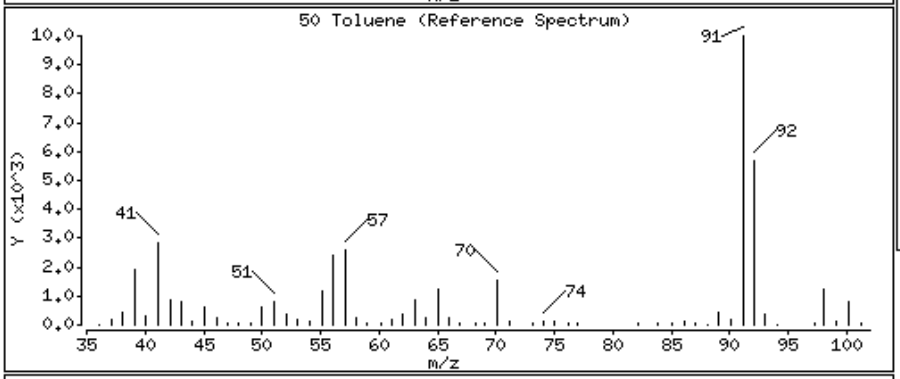
Concentration: 50.84 ug/l

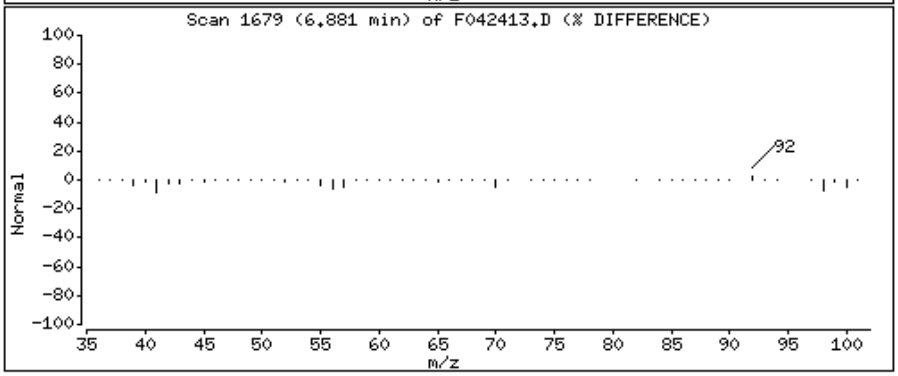












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 46

Date : 24-APR-2024 13:44

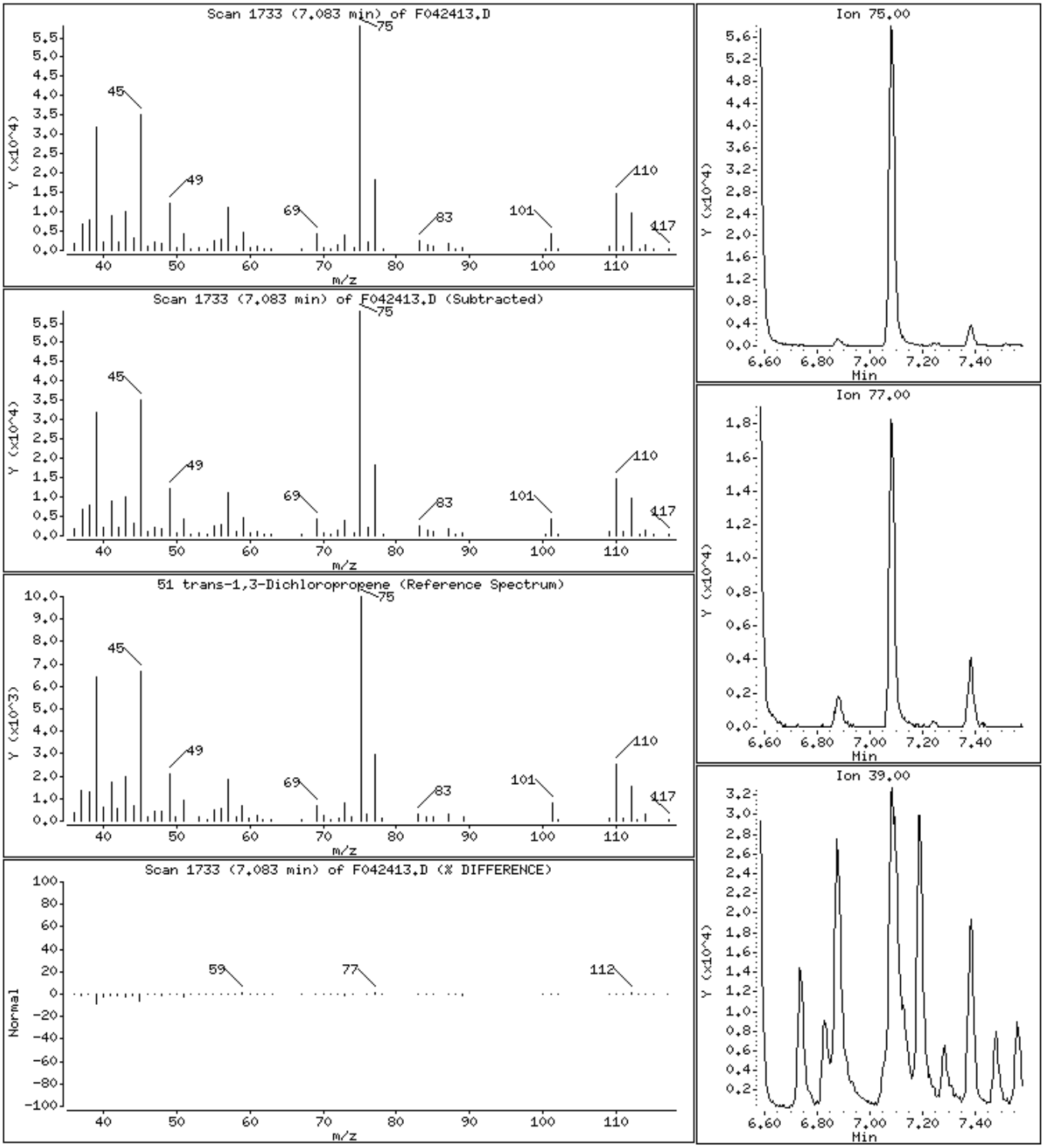
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

51 trans-1,3-Dichloropropene Concentration: 47.86 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 47

Date : 24-APR-2024 13:44

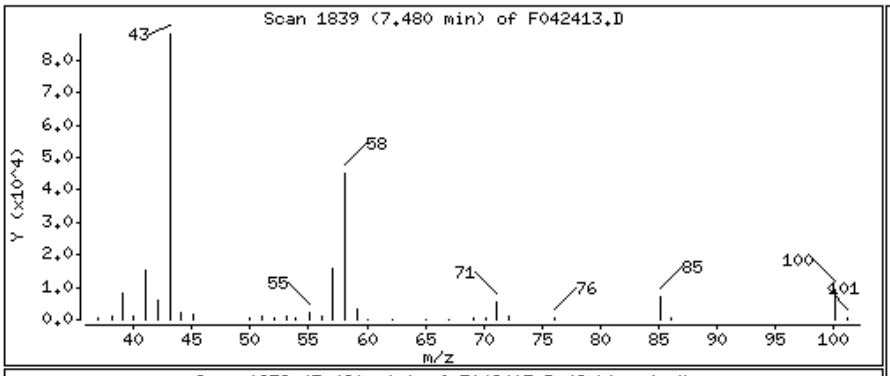
Client ID: VSTD050 Instrument: voa10.i

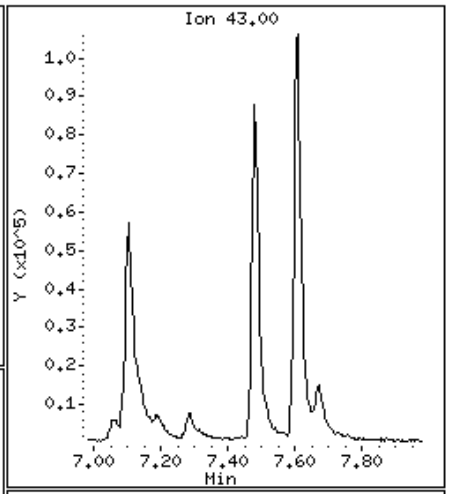
Sample Info: VSTD050;VSTD050;2;;ICV

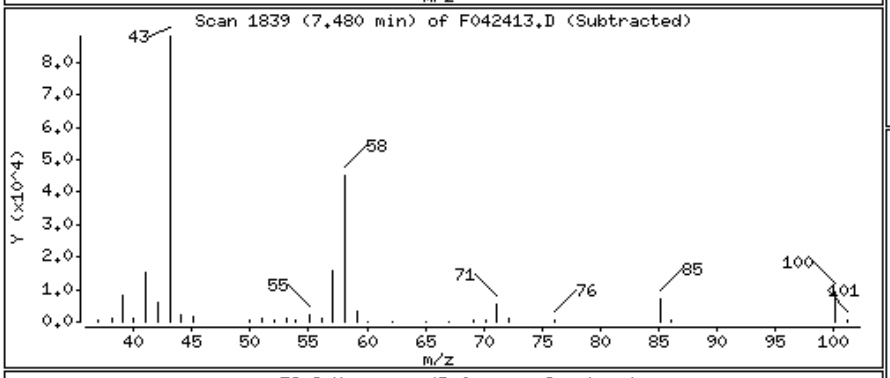
Purge Volume: 5.0 Operator: TS

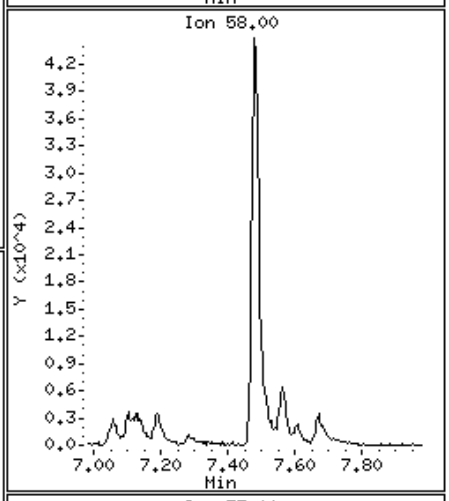
Column phase: DB624 Column diameter: 0.18

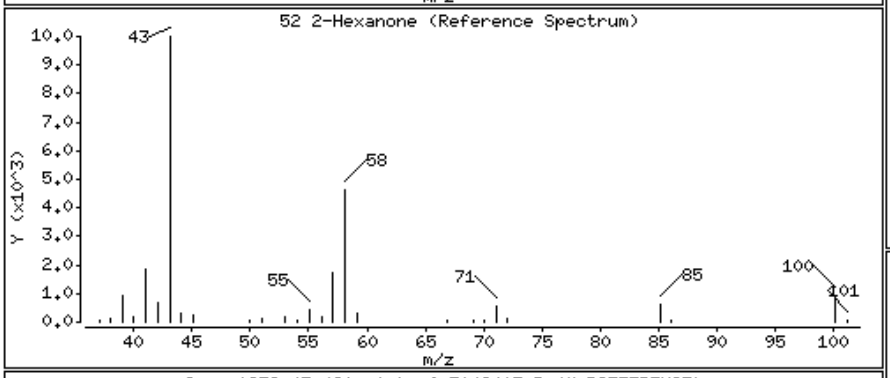
52 2-Hexanone Concentration: 102.77 ug/l

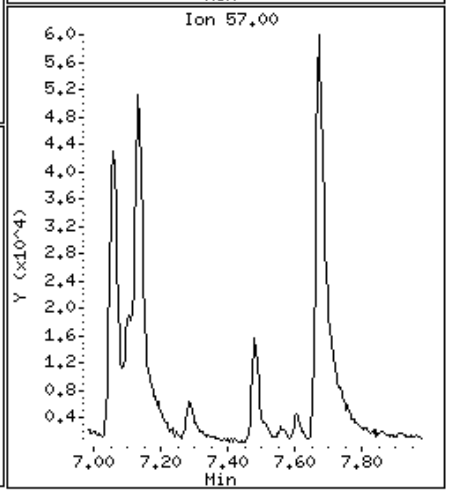


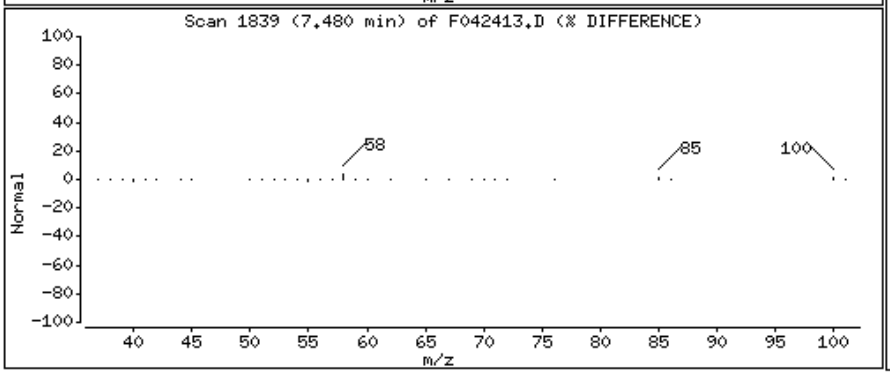












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 48

Date : 24-APR-2024 13:44

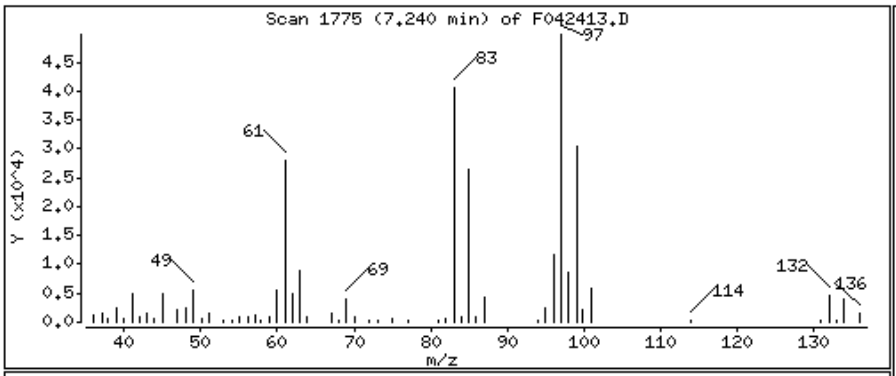
Client ID: VSTD050 Instrument: voa10.i

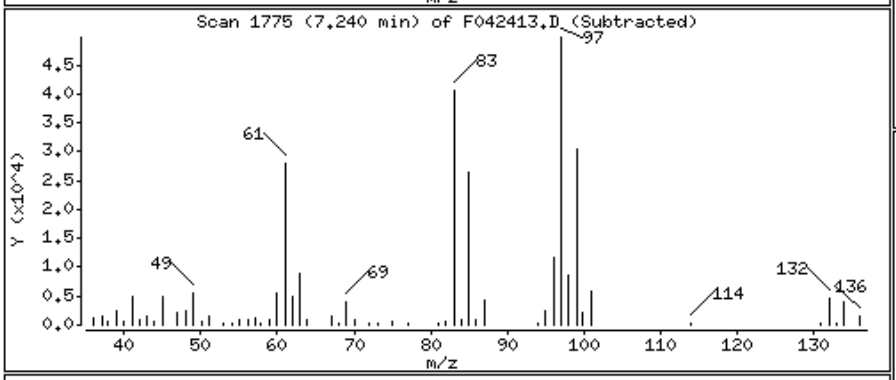
Sample Info: VSTD050;VSTD050;2;;ICV

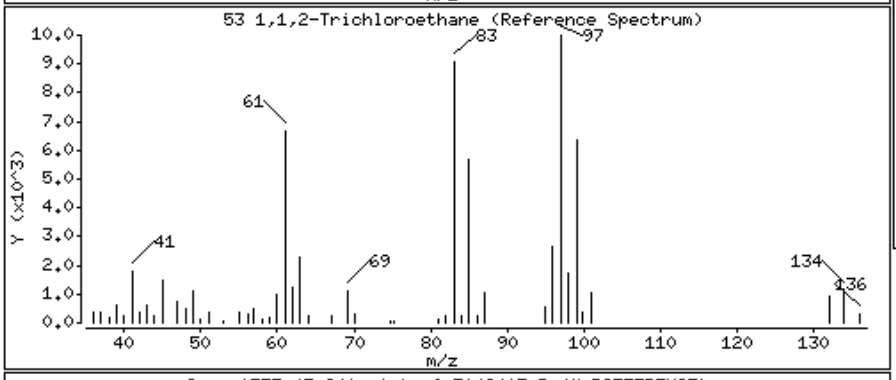
Purge Volume: 5.0 Operator: TS

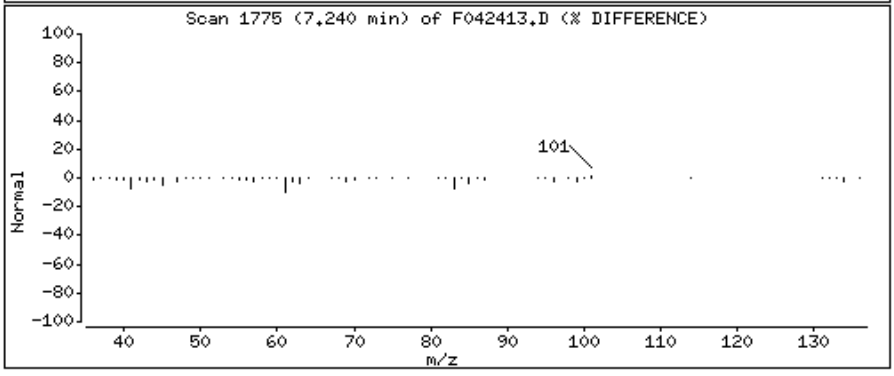
Column phase: DB624 Column diameter: 0.18

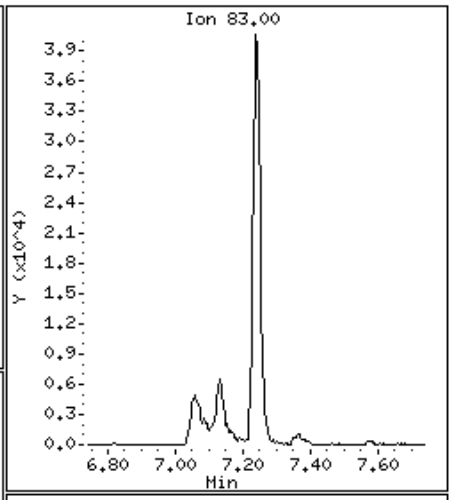
53 1,1,2-Trichloroethane Concentration: 52.58 ug/l

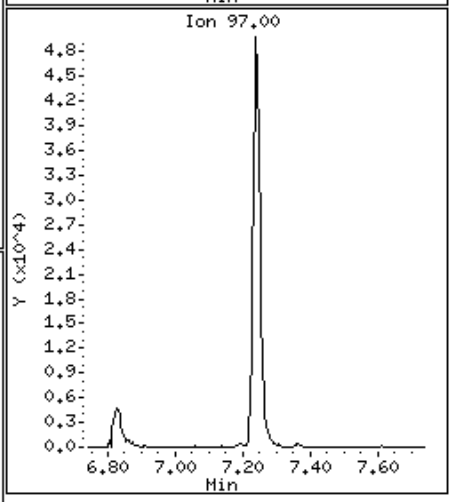












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 49

Date : 24-APR-2024 13:44

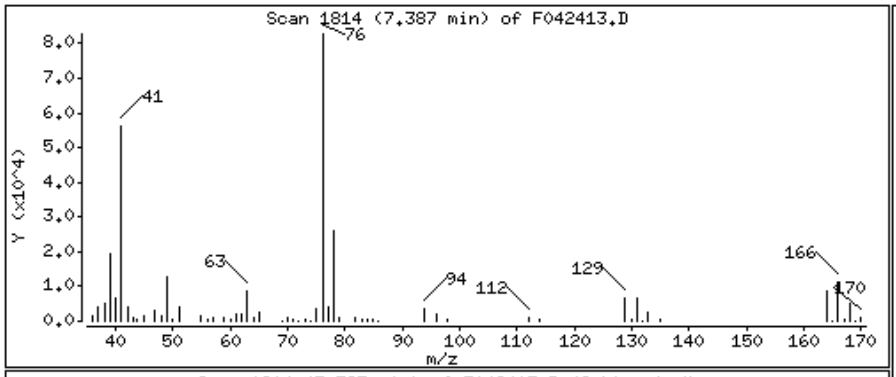
Client ID: VSTD050 Instrument: voa10.i

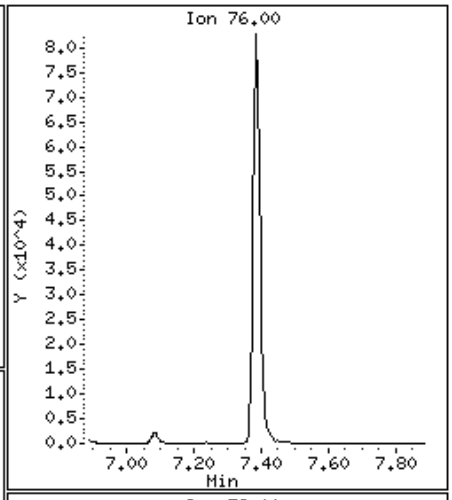
Sample Info: VSTD050;VSTD050;2;;ICV

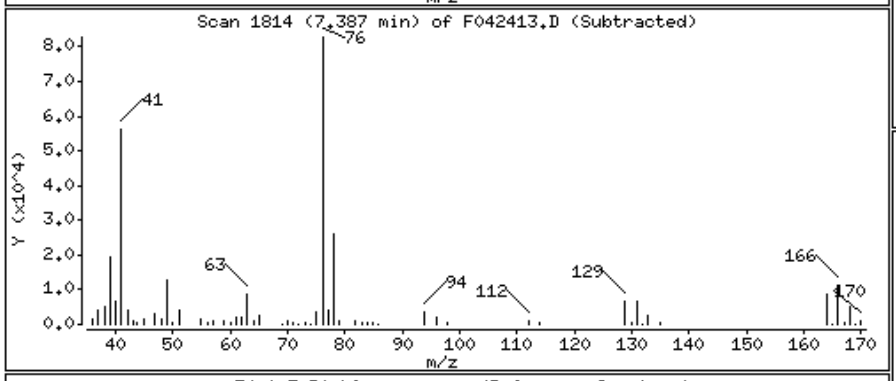
Purge Volume: 5.0 Operator: TS

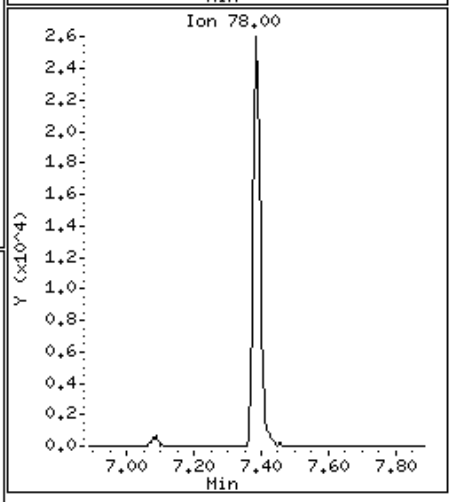
Column phase: DB624 Column diameter: 0.18

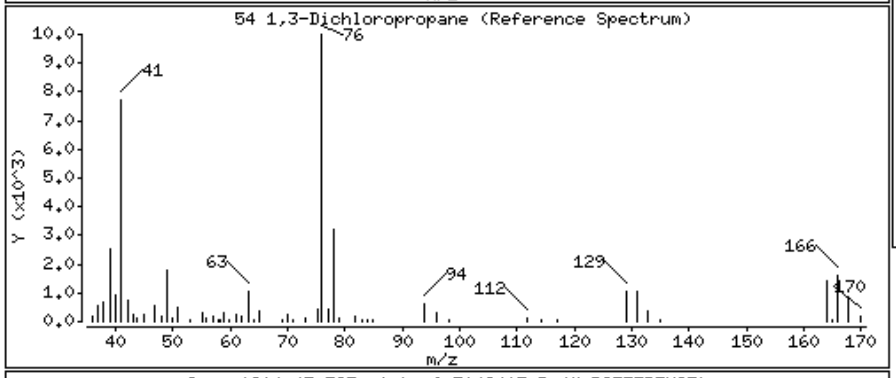
54 1,3-Dichloropropane Concentration: 50.29 ug/l

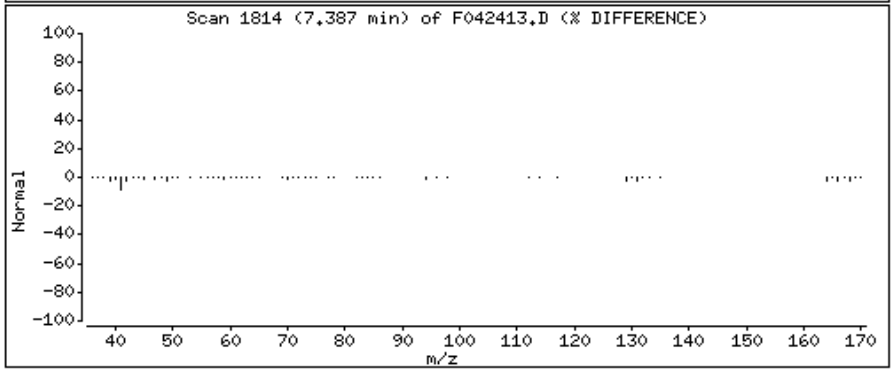












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 50

Date : 24-APR-2024 13:44

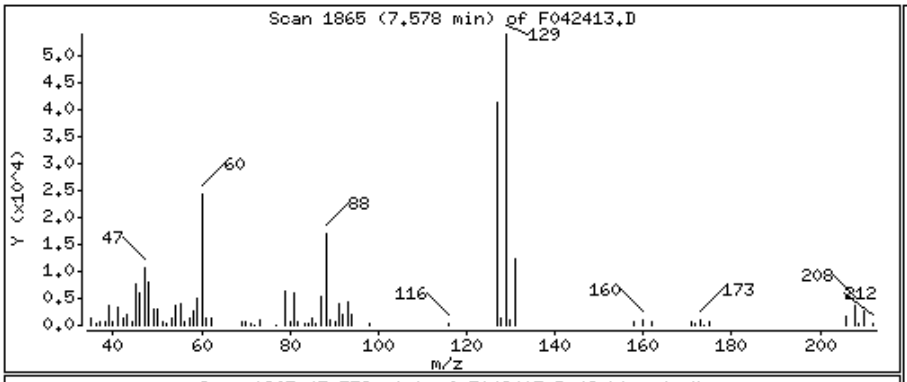
Client ID: VSTD050 Instrument: voa10.i

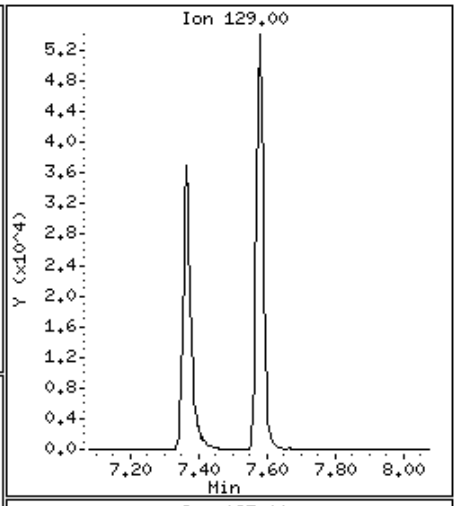
Sample Info: VSTD050;VSTD050;2;;ICV

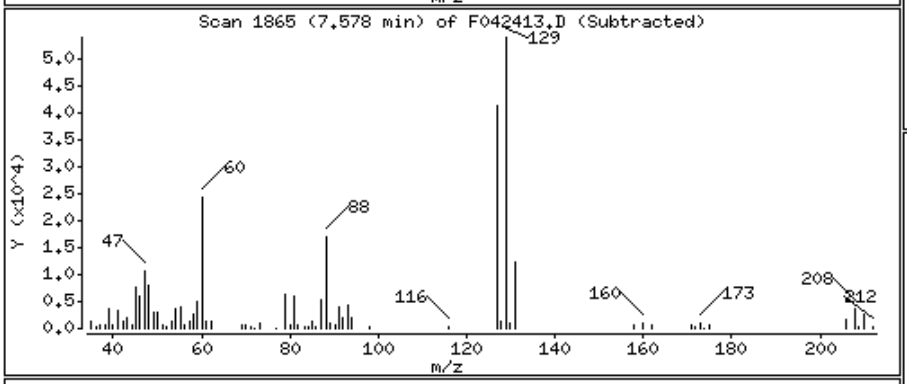
Purge Volume: 5.0 Operator: TS

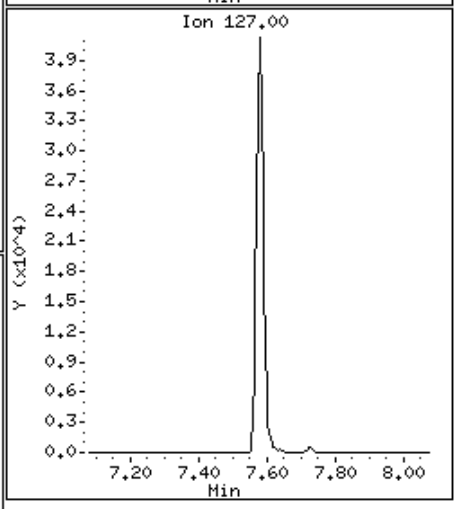
Column phase: DB624 Column diameter: 0.18

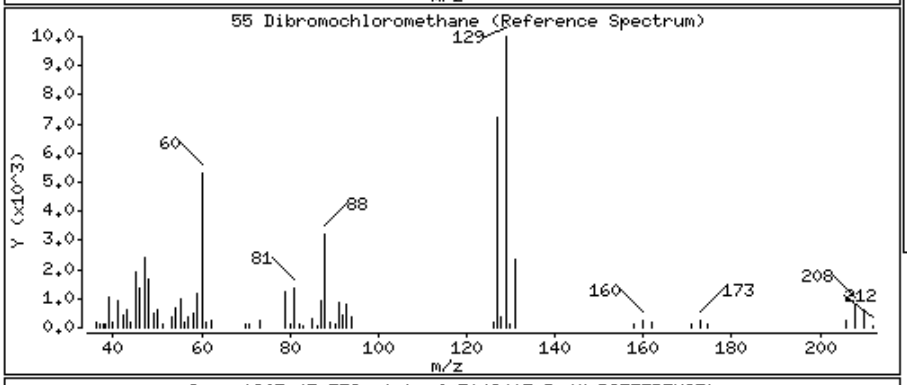
55 Dibromochloromethane Concentration: 53.46 ug/l

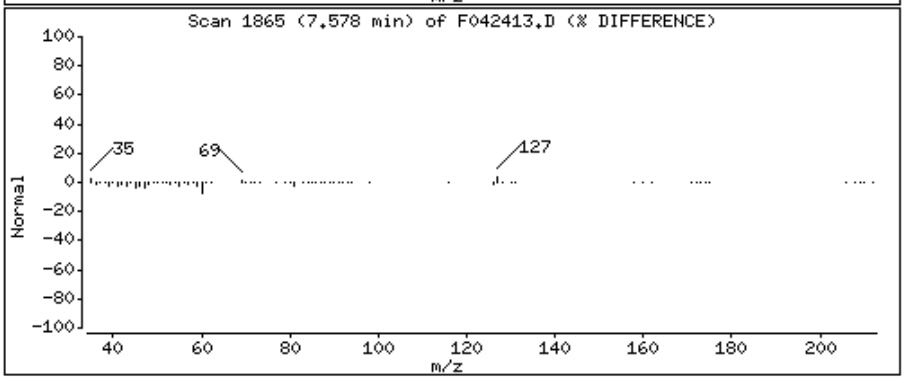












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 51

Date : 24-APR-2024 13:44

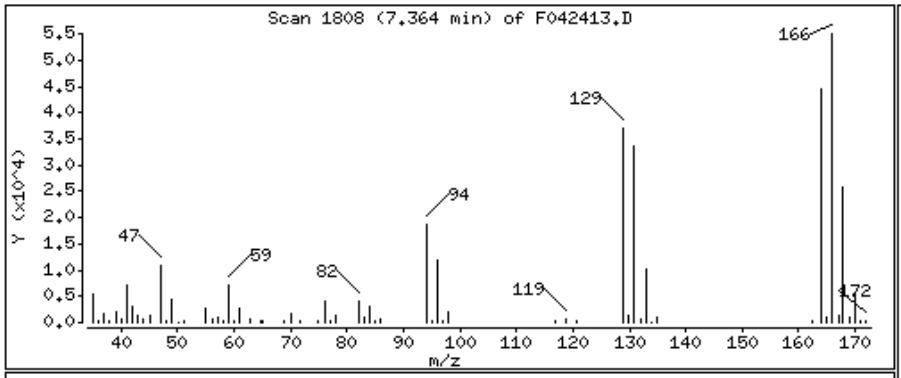
Client ID: VSTD050 Instrument: voa10.i

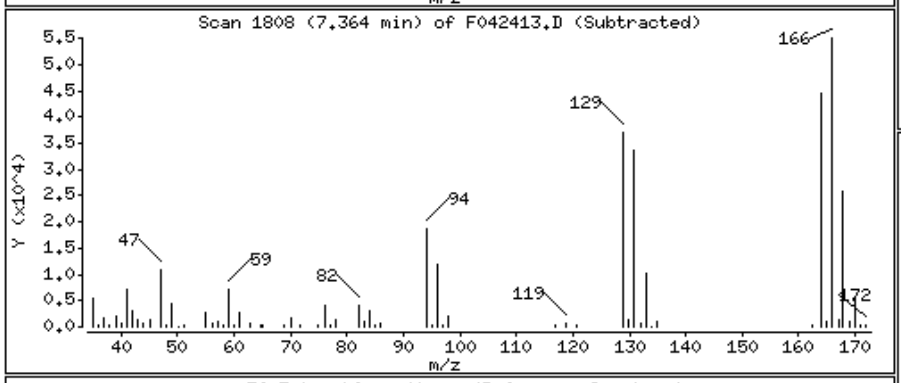
Sample Info: VSTD050;VSTD050;2;;ICV

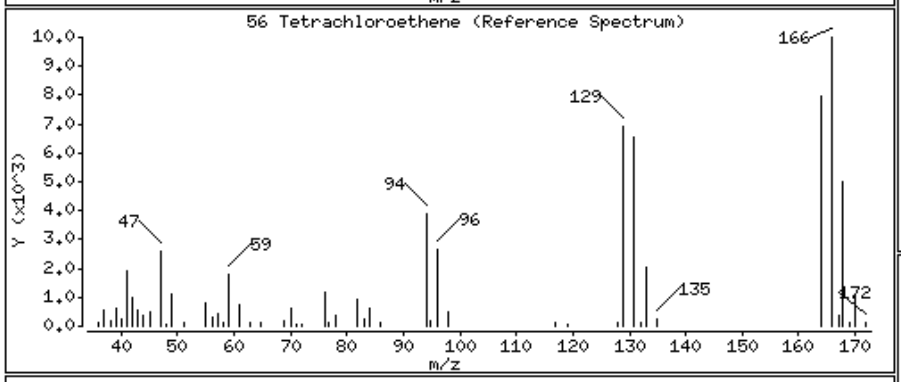
Purge Volume: 5.0 Operator: TS

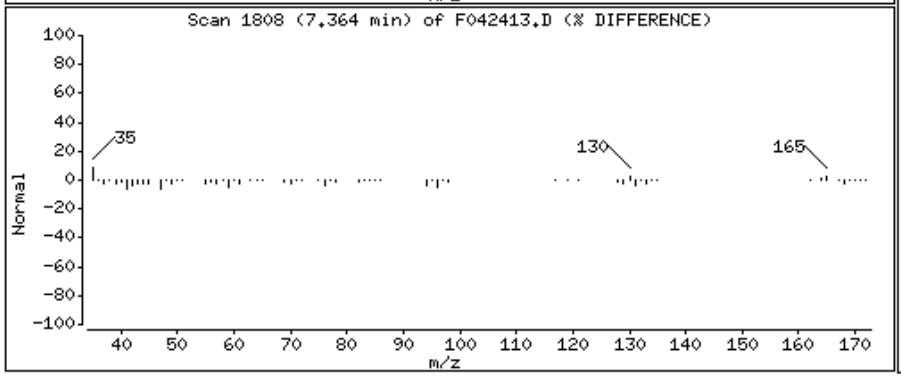
Column phase: DB624 Column diameter: 0.18

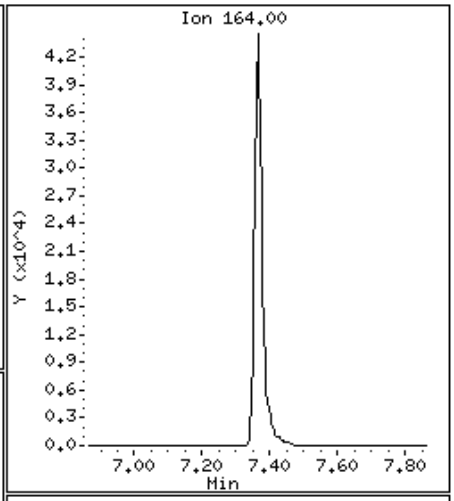
56 Tetrachloroethene Concentration: 52.26 ug/l

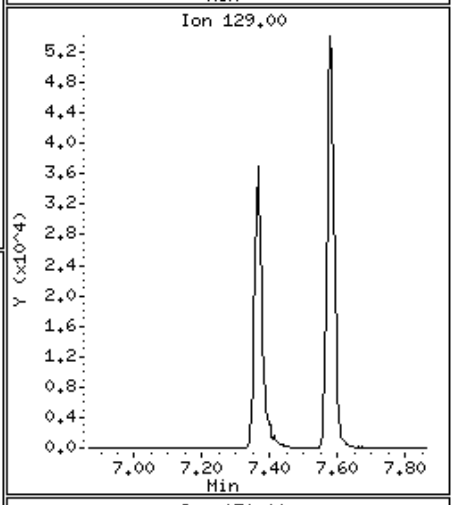


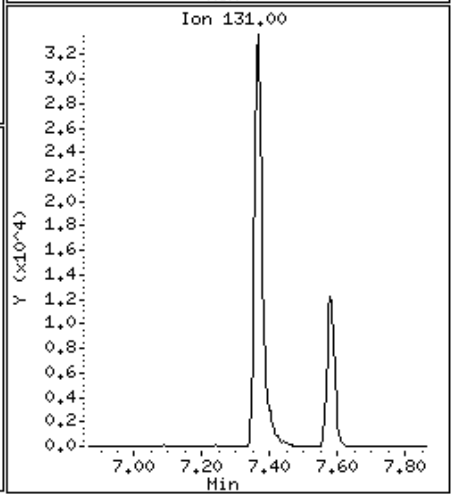












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 52

Date : 24-APR-2024 13:44

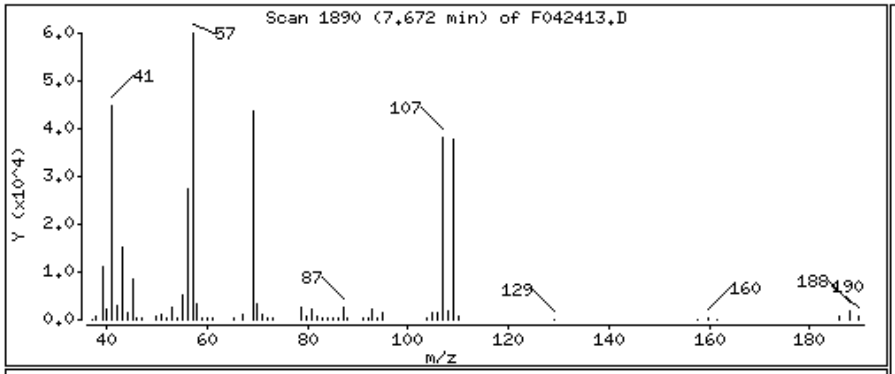
Client ID: VSTD050 Instrument: voa10.i

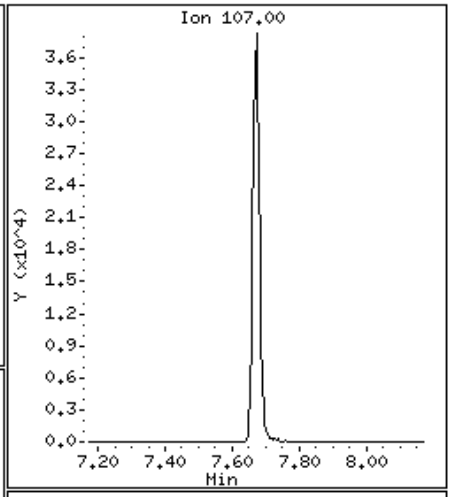
Sample Info: VSTD050;VSTD050;2;;ICV

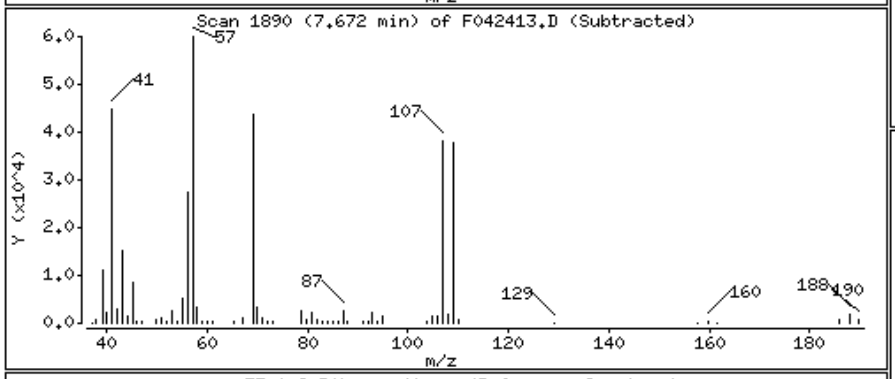
Purge Volume: 5.0 Operator: TS

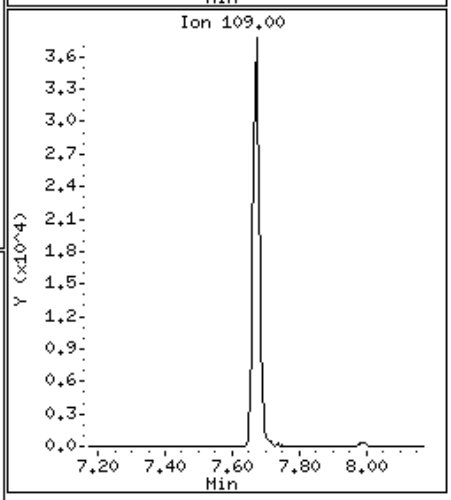
Column phase: DB624 Column diameter: 0.18

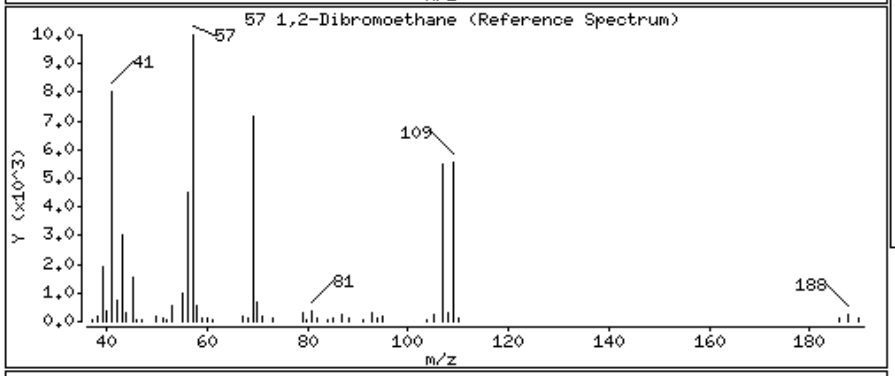
57 1,2-Dibromoethane Concentration: 45.74 ug/l

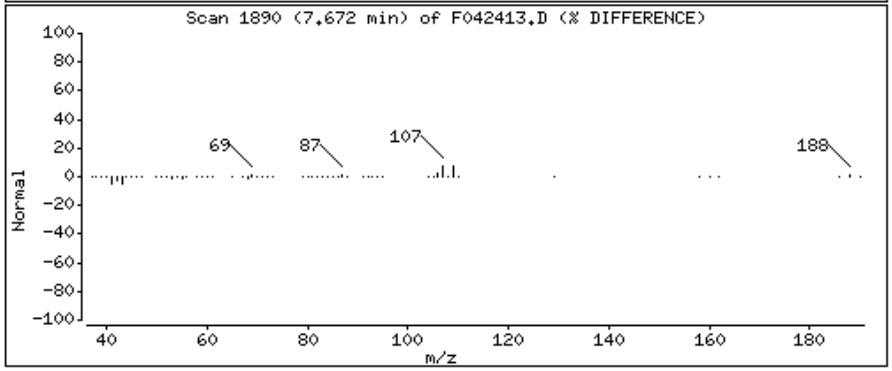












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 53

Date : 24-APR-2024 13:44

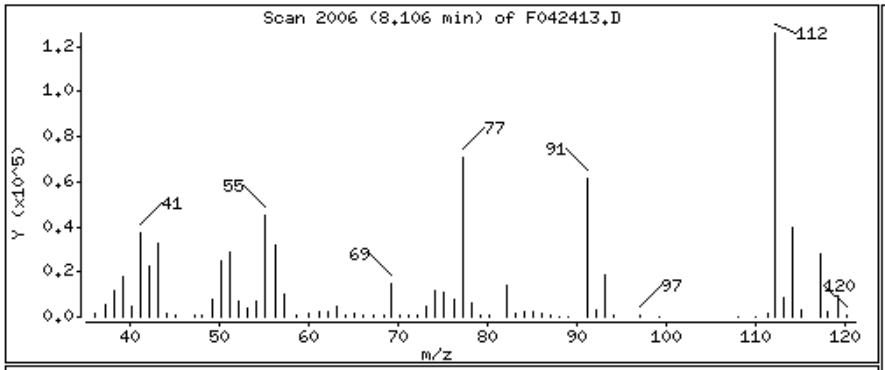
Client ID: VSTD050 Instrument: voa10.i

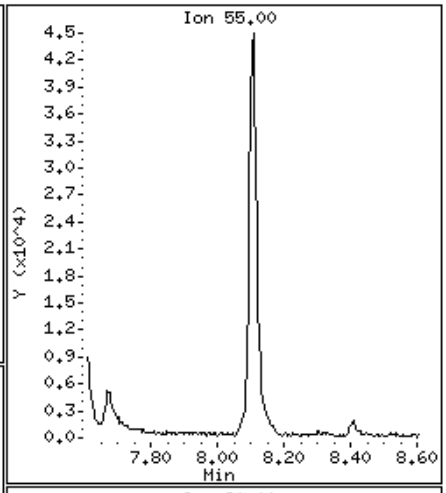
Sample Info: VSTD050;VSTD050;2;;ICV

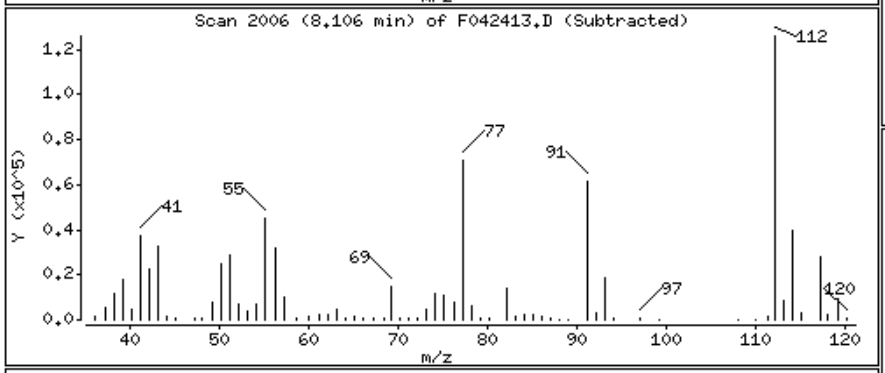
Purge Volume: 5.0 Operator: TS

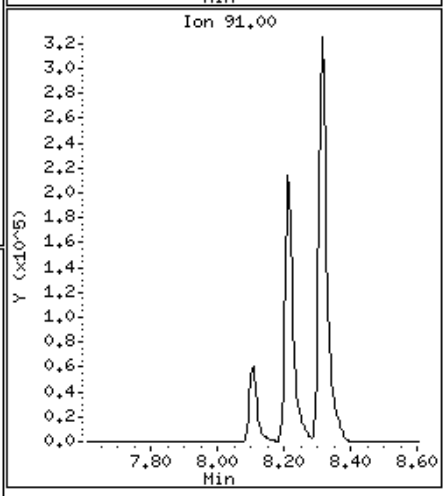
Column phase: DB624 Column diameter: 0.18

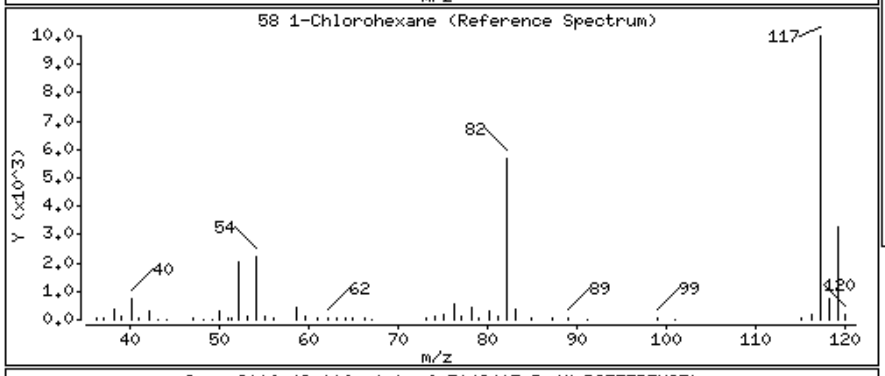
58 1-Chlorohexane Concentration: 51.87 ug/l

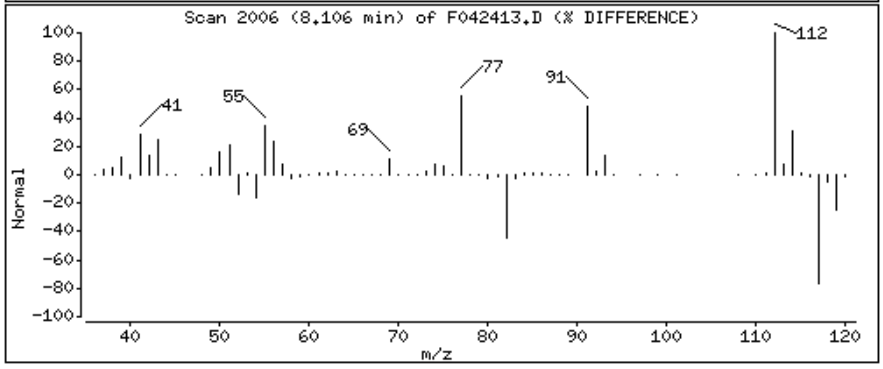












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 54

Date : 24-APR-2024 13:44

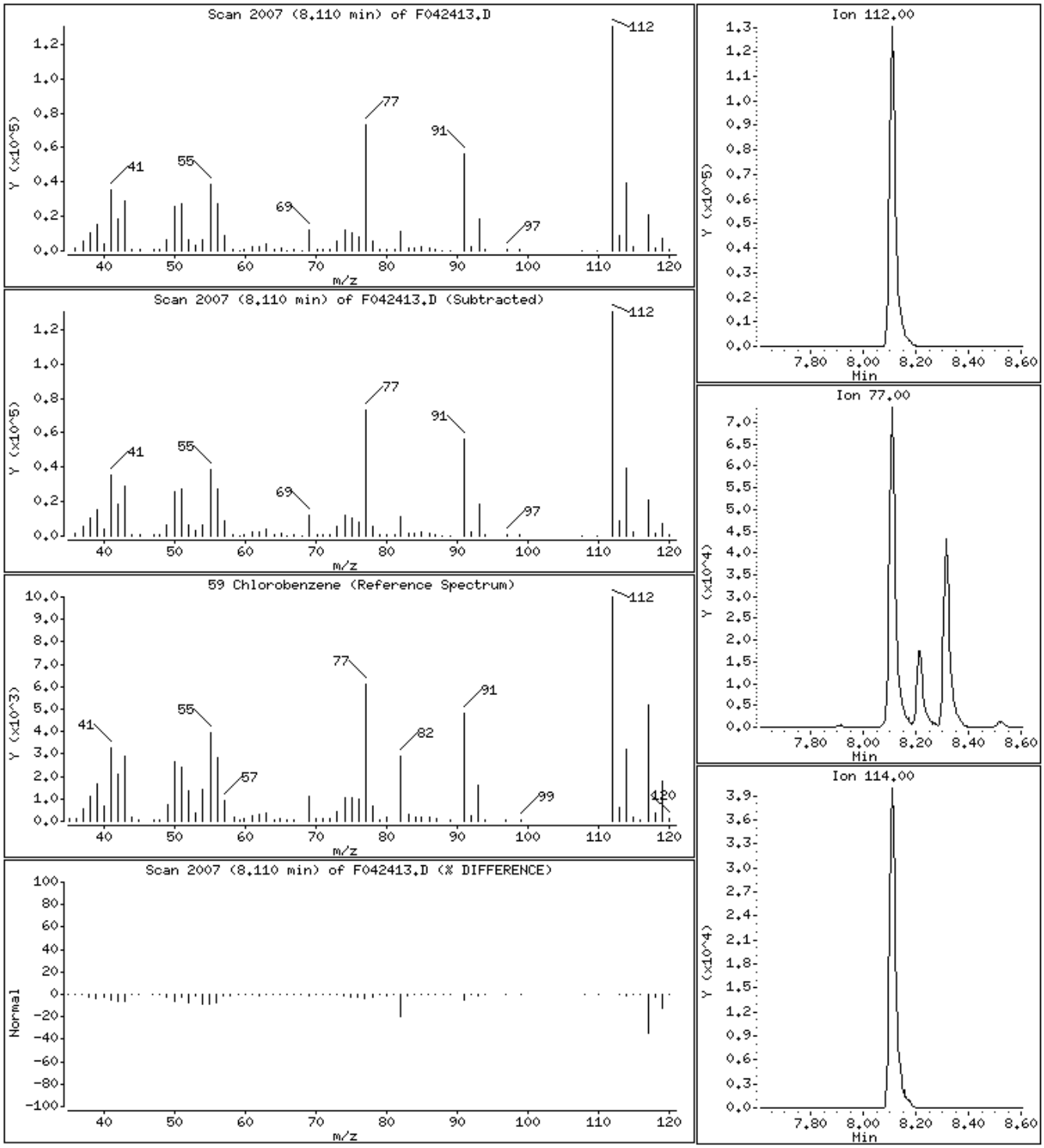
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

59 Chlorobenzene Concentration: 49.80 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 55

Date : 24-APR-2024 13:44

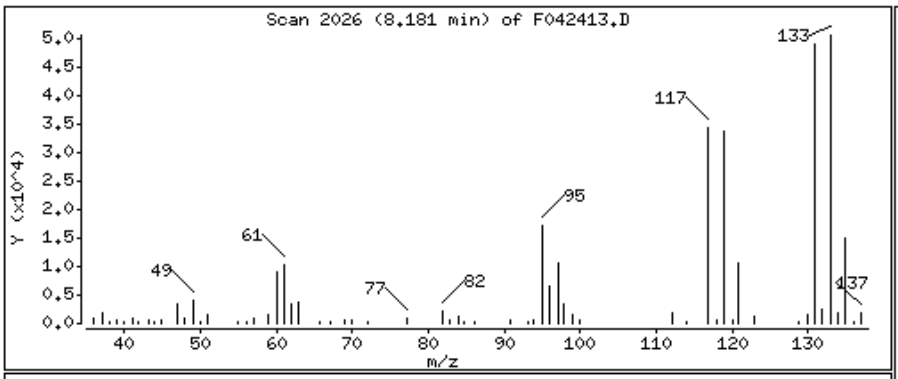
Client ID: VSTD050 Instrument: voa10.i

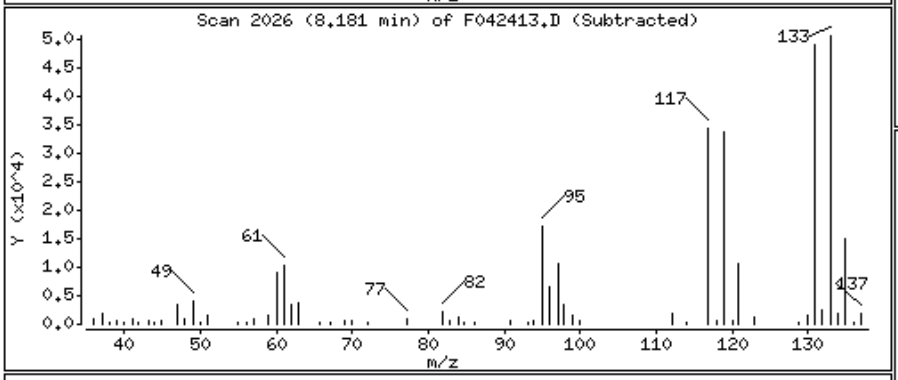
Sample Info: VSTD050;VSTD050;2;;ICV

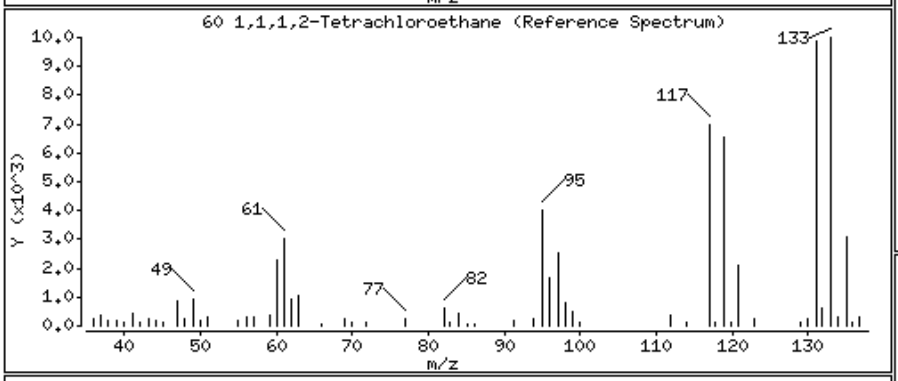
Purge Volume: 5.0 Operator: TS

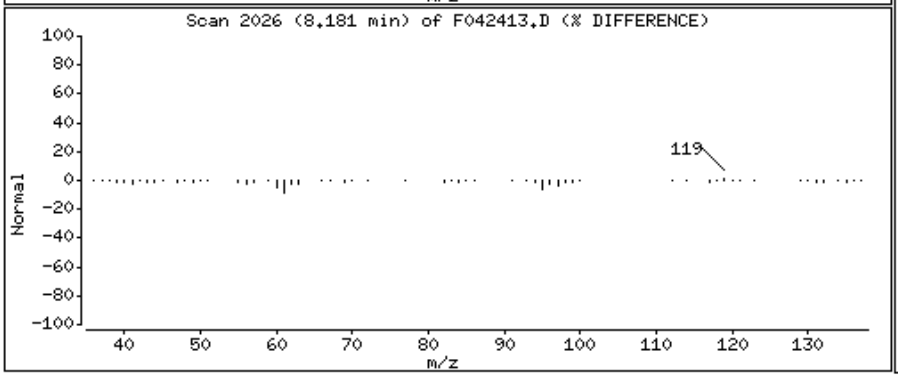
Column phase: DB624 Column diameter: 0.18

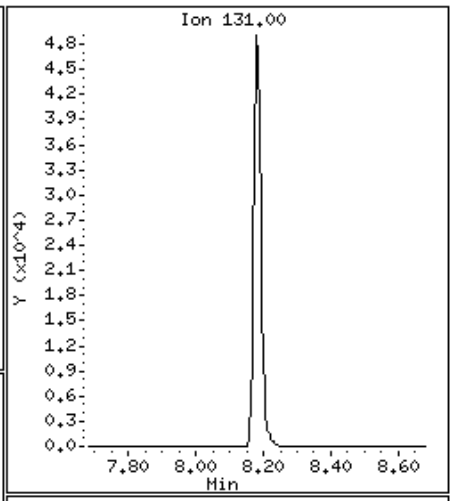
60 1,1,1,2-Tetrachloroethane Concentration: 52.77 ug/l

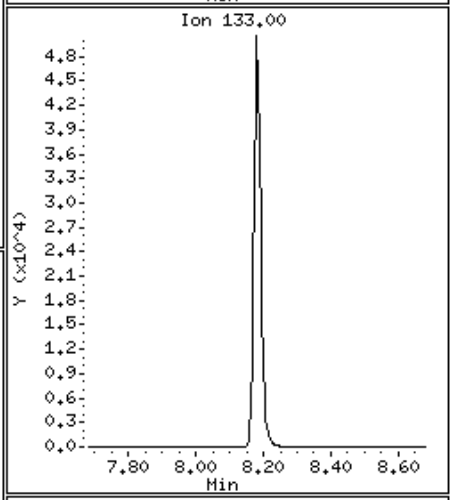


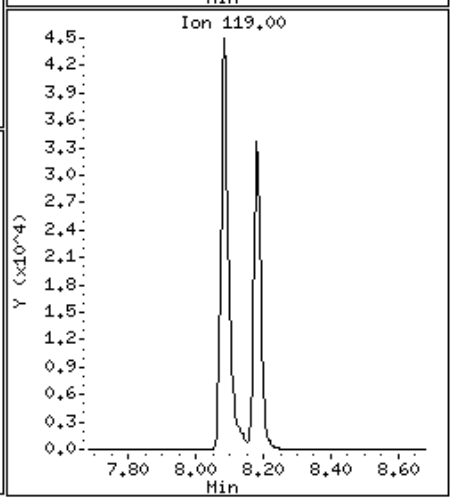












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 56

Date : 24-APR-2024 13:44

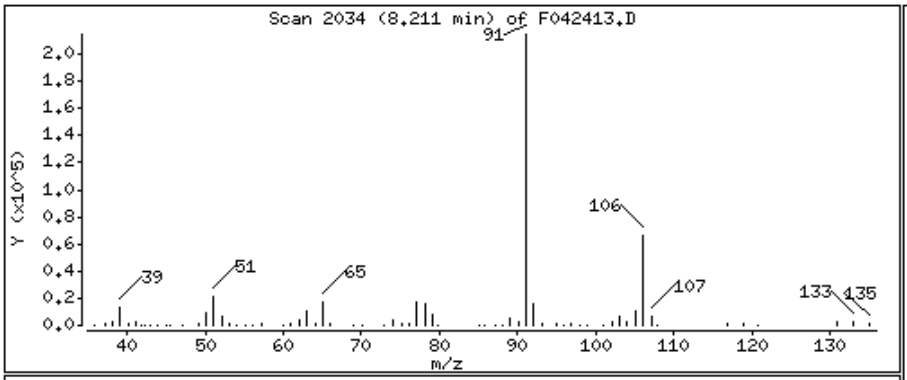
Client ID: VSTD050 Instrument: voa10.i

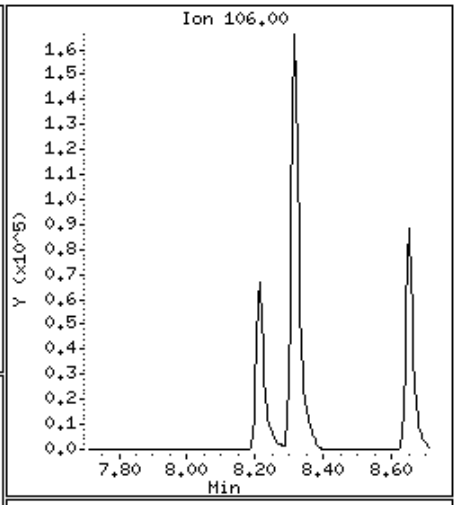
Sample Info: VSTD050;VSTD050;2;;ICV

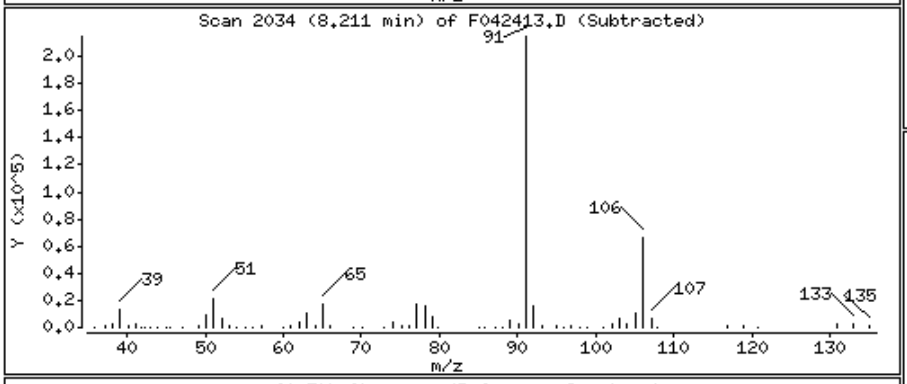
Purge Volume: 5.0 Operator: TS

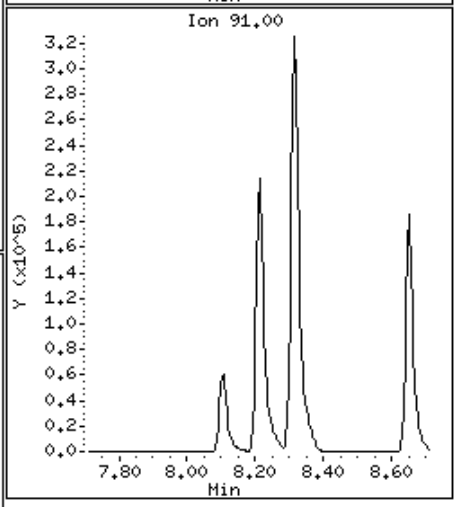
Column phase: DB624 Column diameter: 0.18

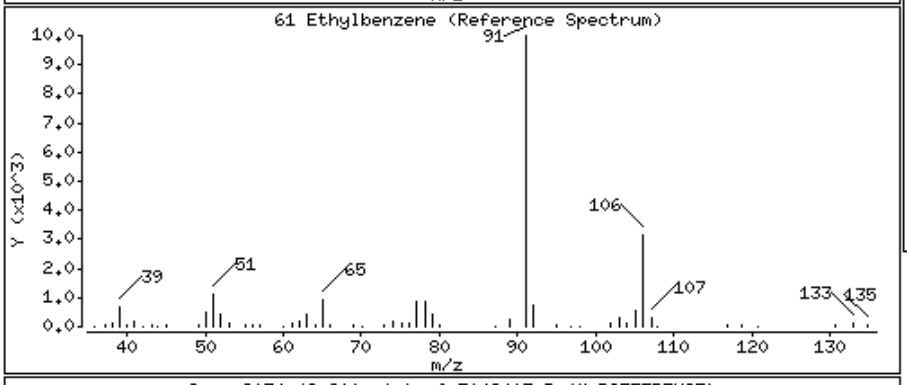
61 Ethylbenzene Concentration: 51.46 ug/l

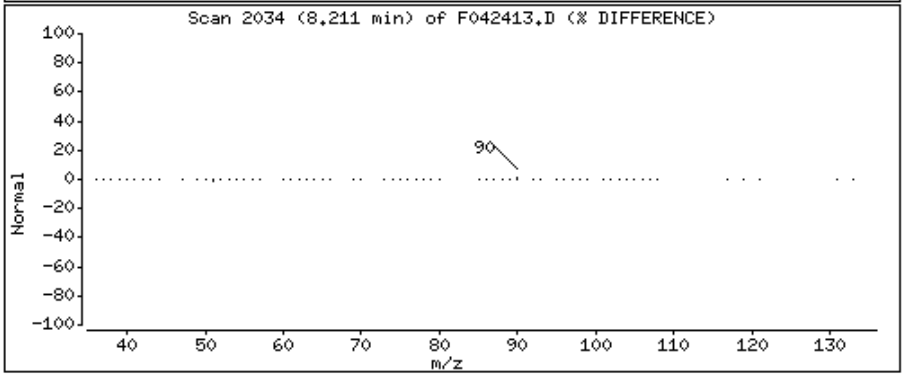












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 57

Date : 24-APR-2024 13:44

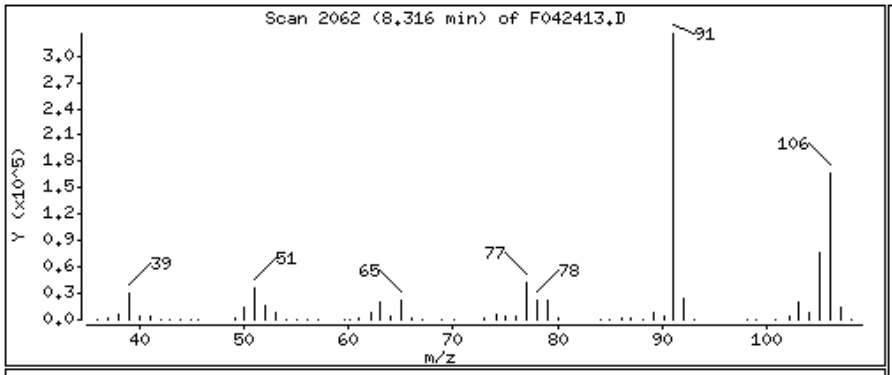
Client ID: VSTD050 Instrument: voa10.i

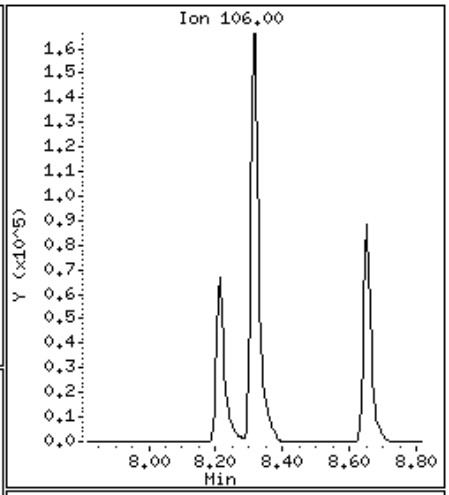
Sample Info: VSTD050;VSTD050;2;;ICV

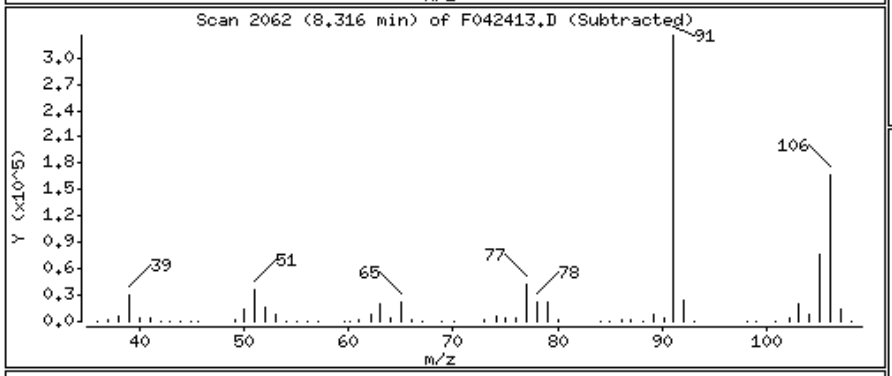
Purge Volume: 5.0 Operator: TS

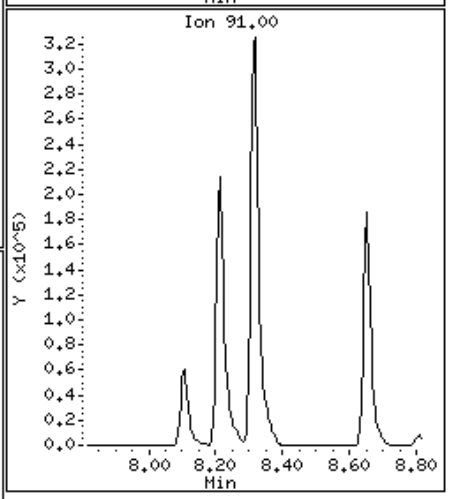
Column phase: DB624 Column diameter: 0.18

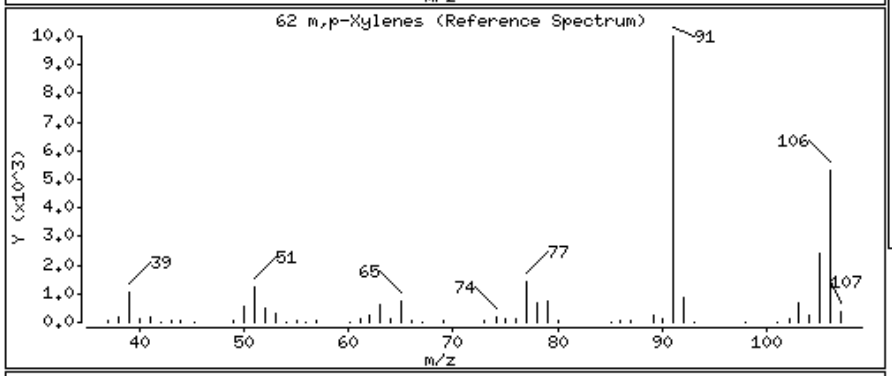
62 m,p-Xylenes Concentration: 102.79 ug/l

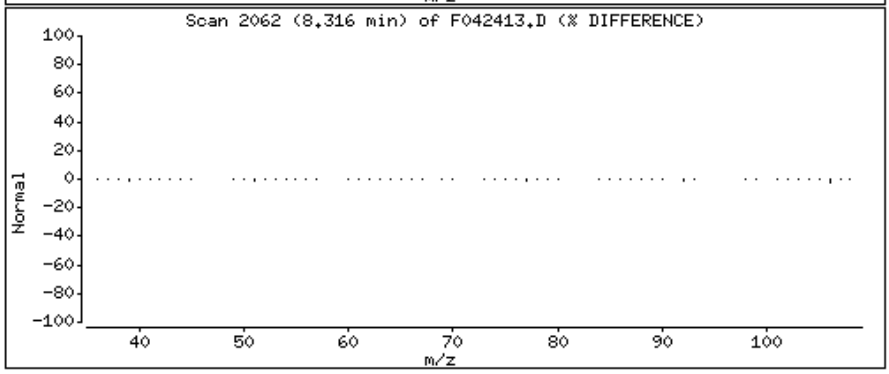












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 58

Date : 24-APR-2024 13:44

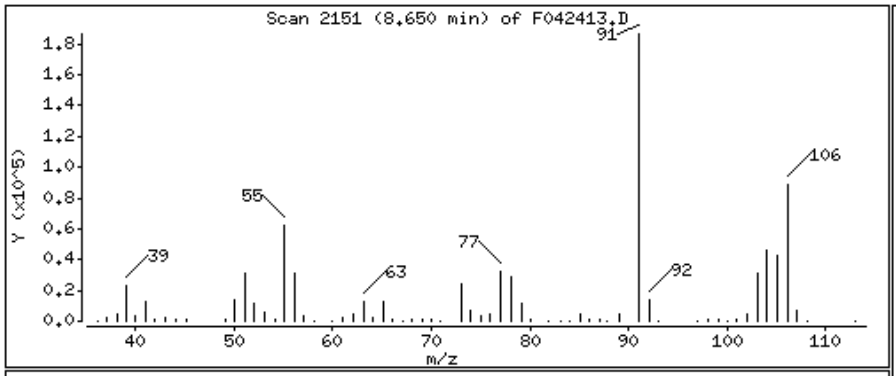
Client ID: VSTD050 Instrument: voa10.i

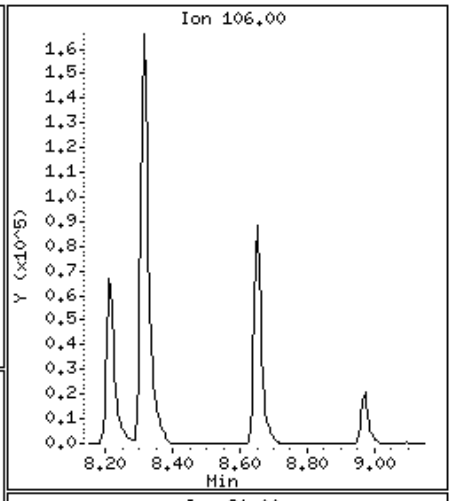
Sample Info: VSTD050;VSTD050;2;;ICV

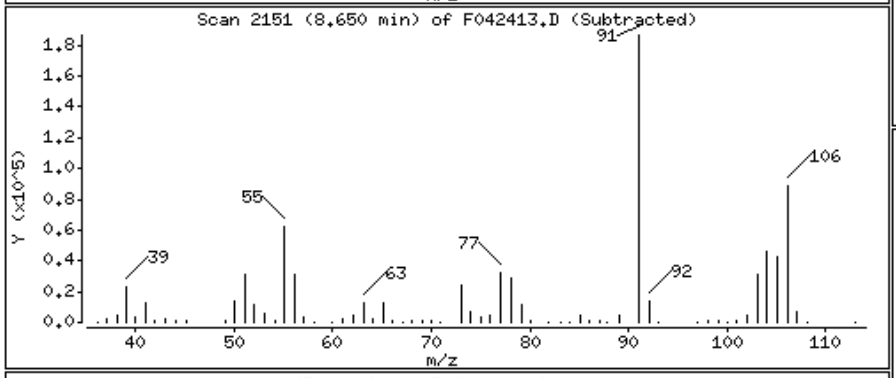
Purge Volume: 5.0 Operator: TS

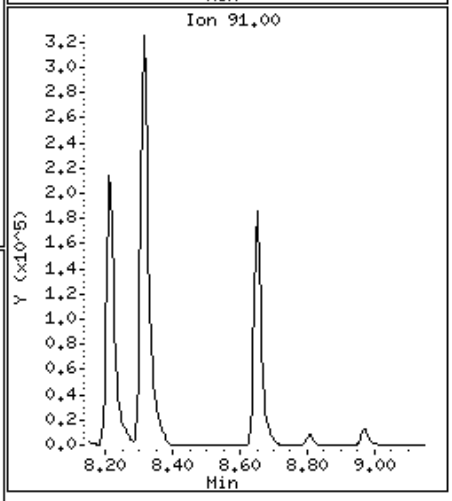
Column phase: DB624 Column diameter: 0.18

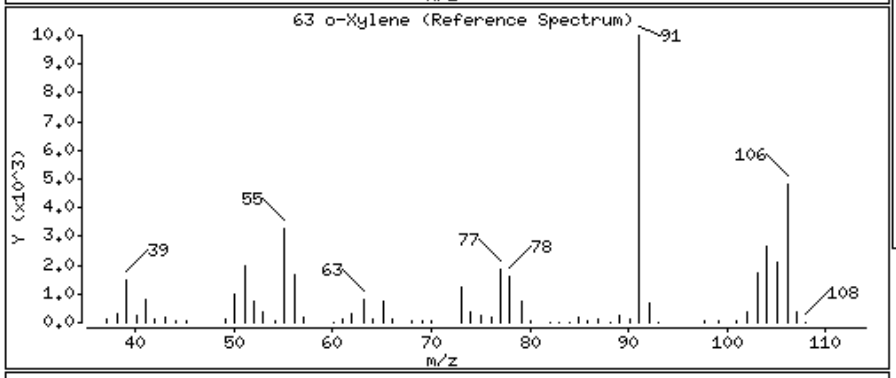
63 o-Xylene Concentration: 50.94 ug/l

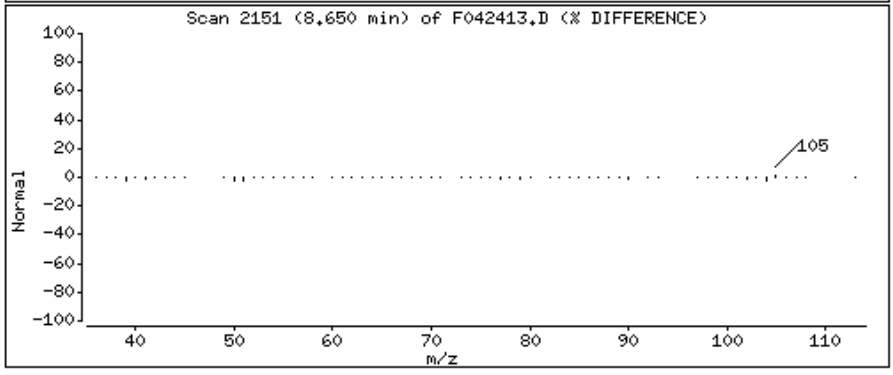












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 59

Date : 24-APR-2024 13:44

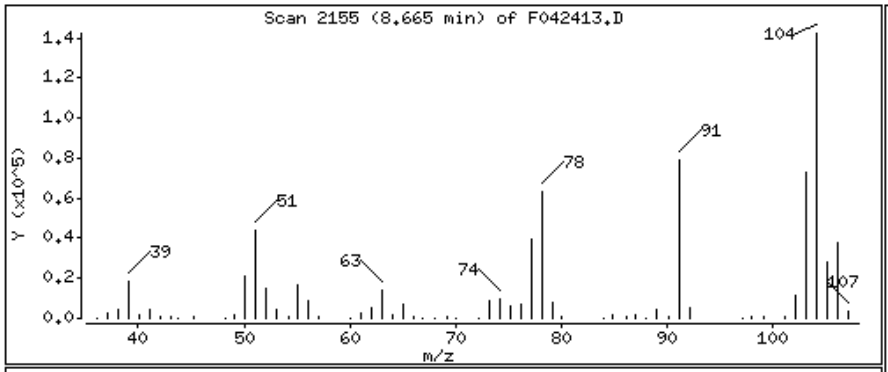
Client ID: VSTD050 Instrument: voa10.i

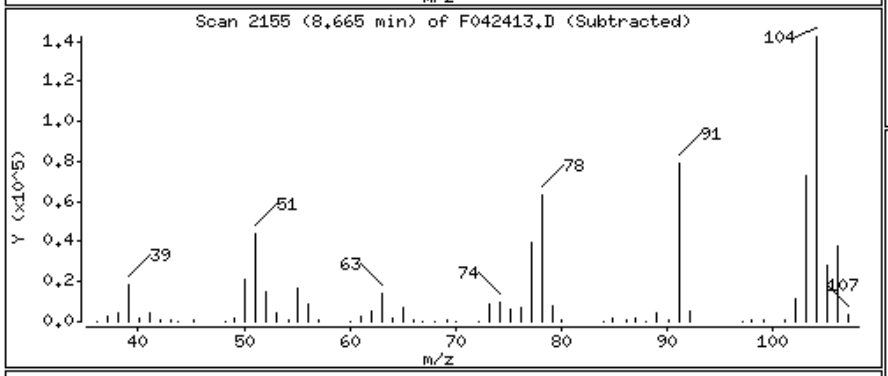
Sample Info: VSTD050;VSTD050;2;;ICV

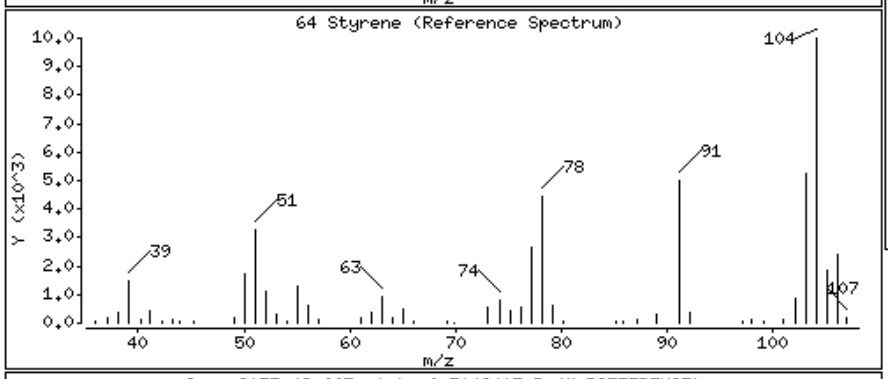
Purge Volume: 5.0 Operator: TS

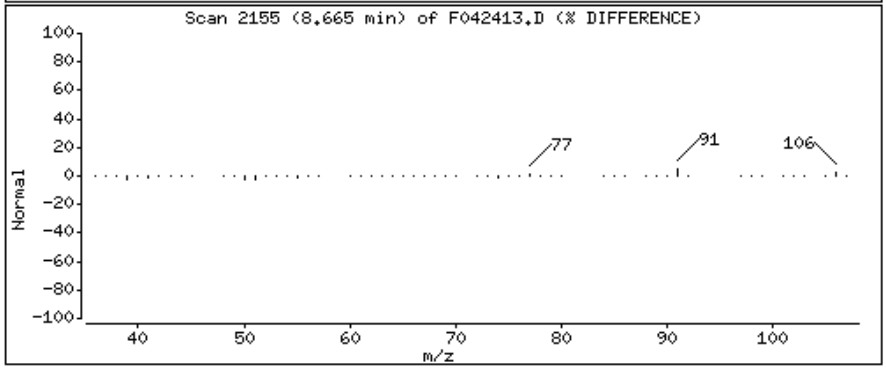
Column phase: DB624 Column diameter: 0.18

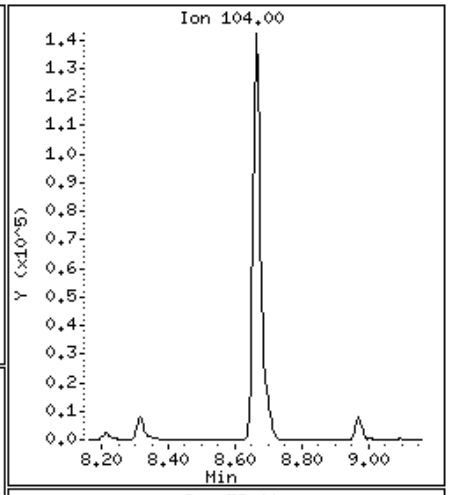
64 Styrene Concentration: 53.40 ug/l

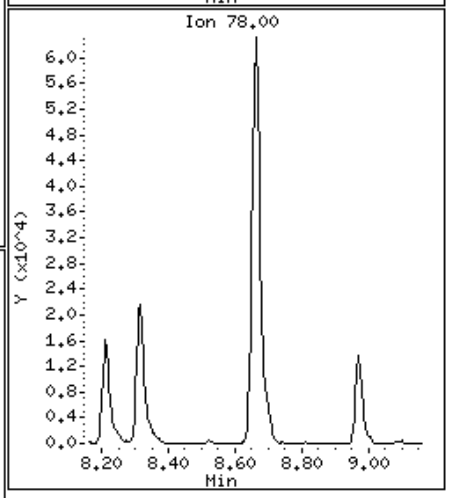












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 60

Date : 24-APR-2024 13:44

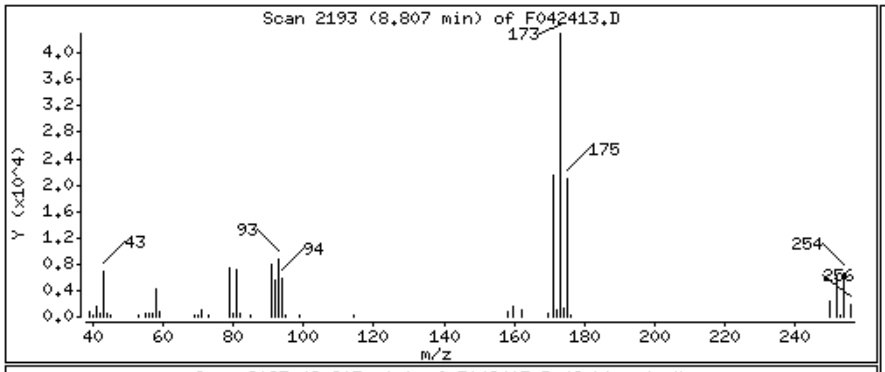
Client ID: VSTD050 Instrument: voa10.i

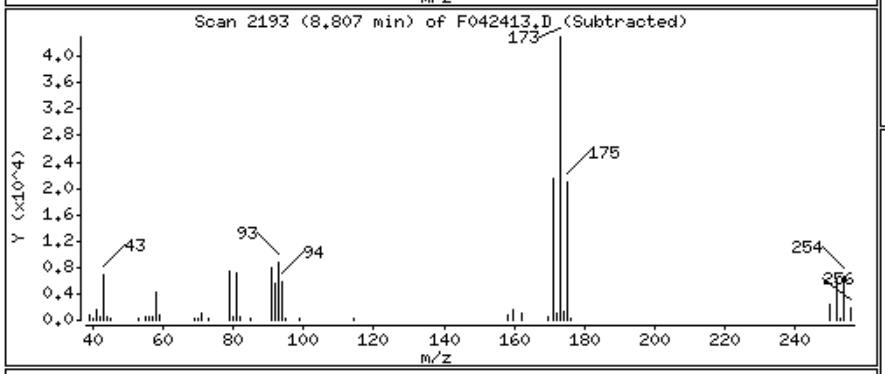
Sample Info: VSTD050;VSTD050;2;;ICV

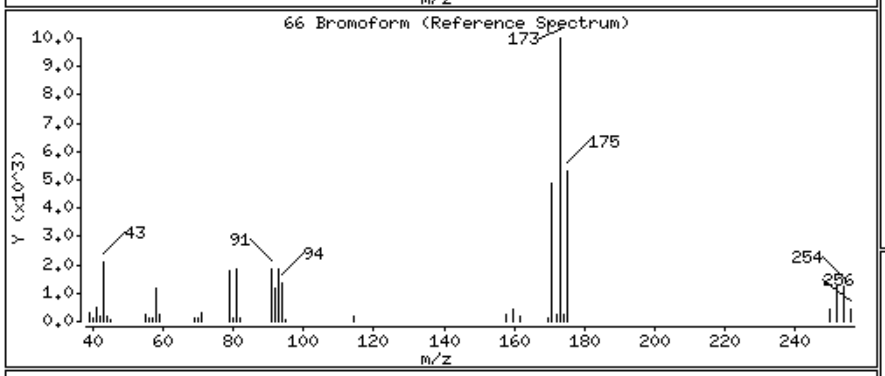
Purge Volume: 5.0 Operator: TS

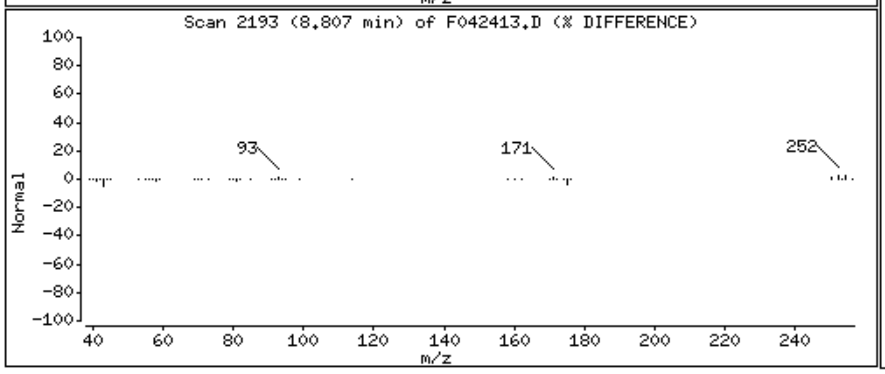
Column phase: DB624 Column diameter: 0.18

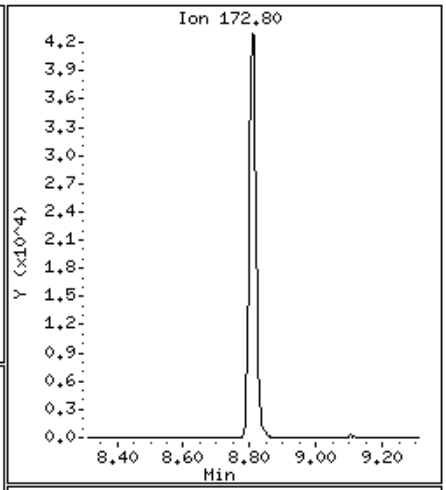
66 Bromoform Concentration: 48.12 ug/l

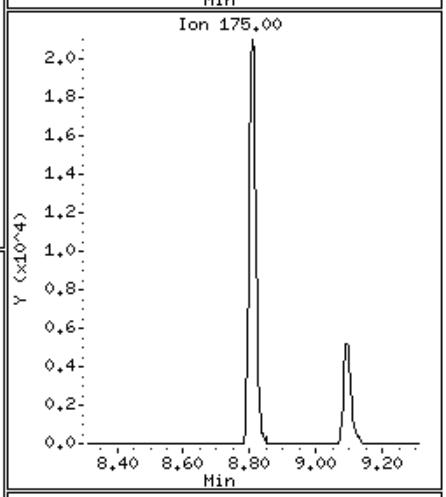


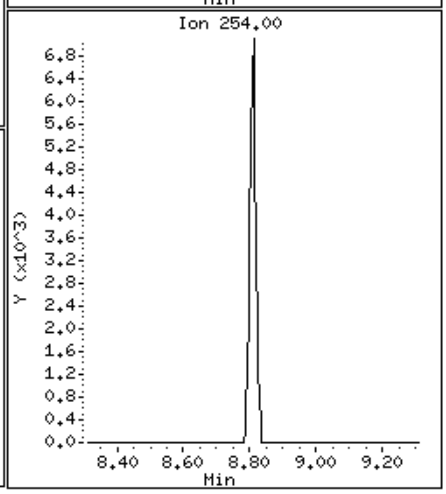












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 61

Date : 24-APR-2024 13:44

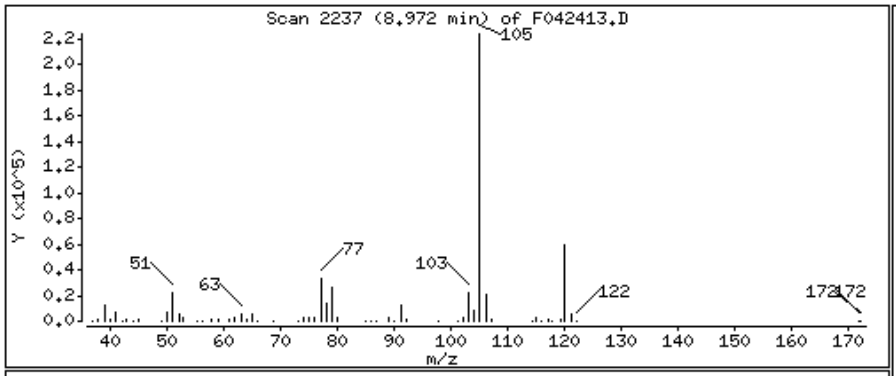
Client ID: VSTD050 Instrument: voa10.i

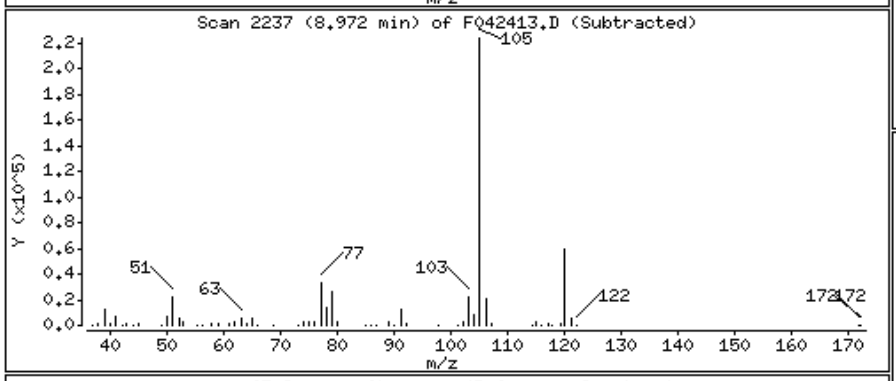
Sample Info: VSTD050;VSTD050;2;;ICV

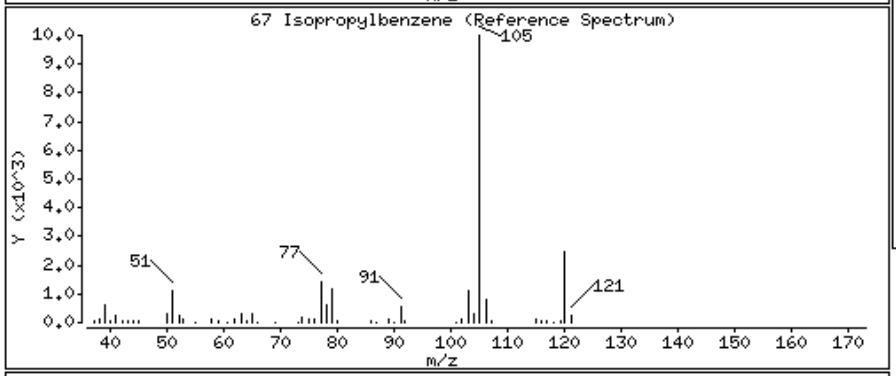
Purge Volume: 5.0 Operator: TS

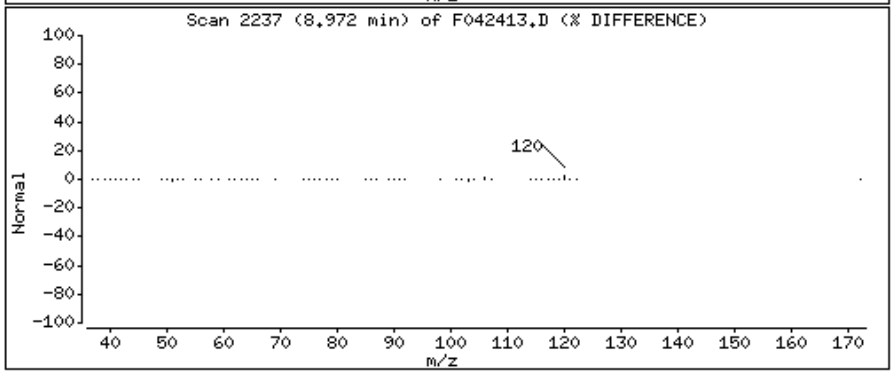
Column phase: DB624 Column diameter: 0.18

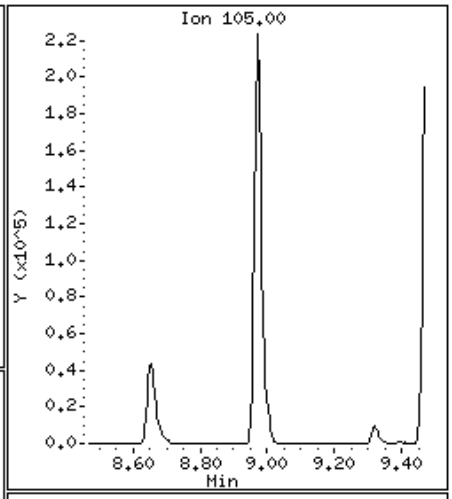
67 Isopropylbenzene Concentration: 53.11 ug/l

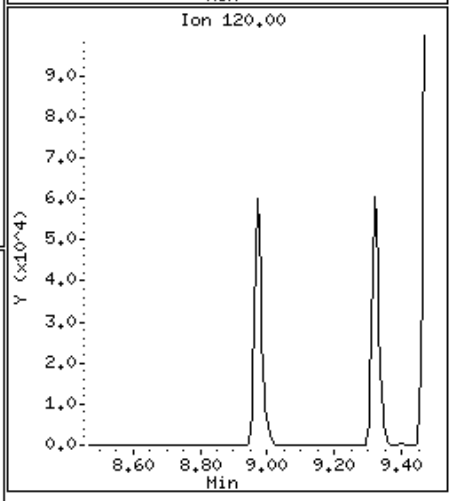












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 62

Date : 24-APR-2024 13:44

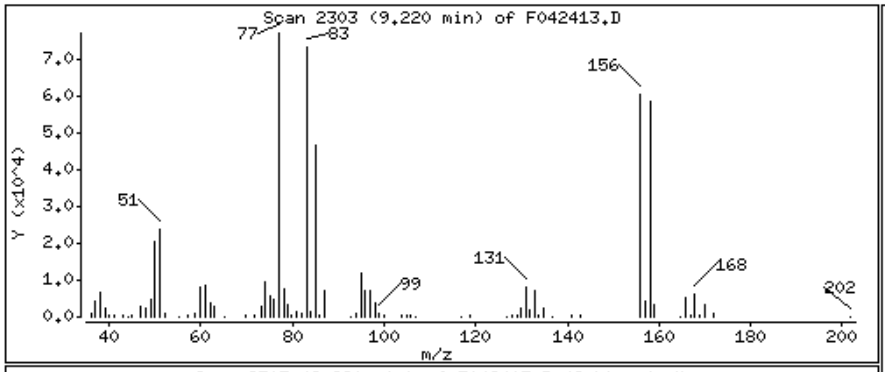
Client ID: VSTD050 Instrument: voa10.i

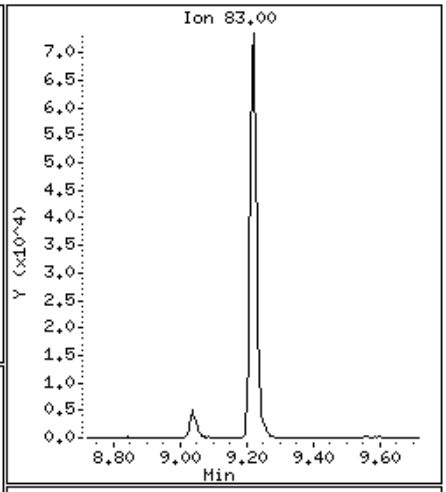
Sample Info: VSTD050;VSTD050;2;;ICV

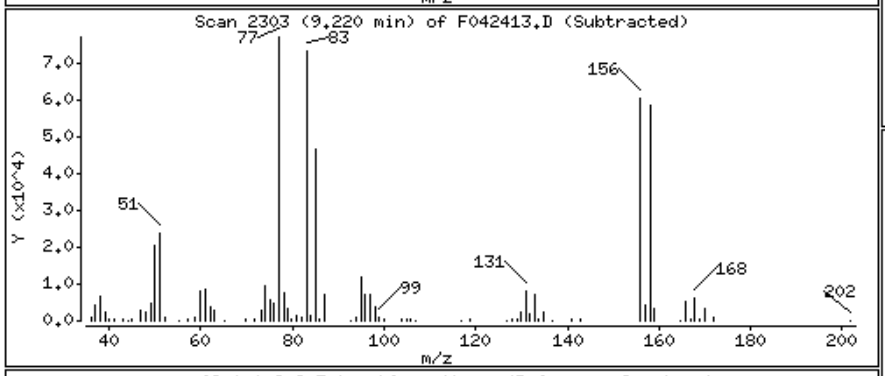
Purge Volume: 5.0 Operator: TS

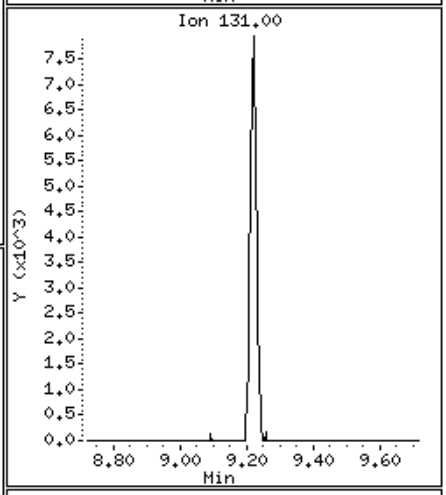
Column phase: DB624 Column diameter: 0.18

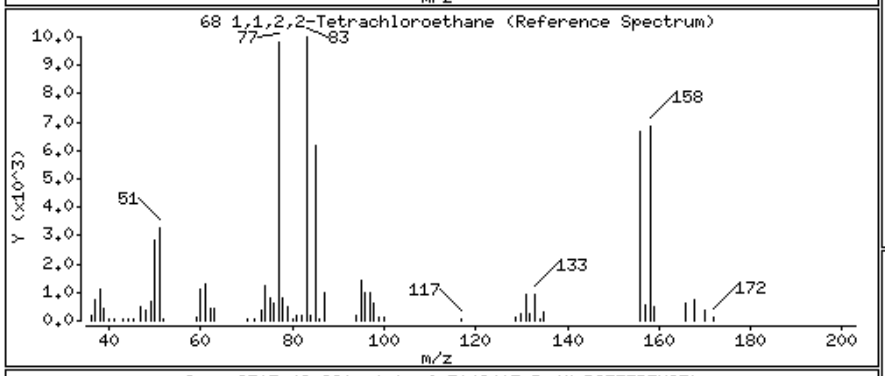
68 1,1,2,2-Tetrachloroethane Concentration: 55.69 ug/l

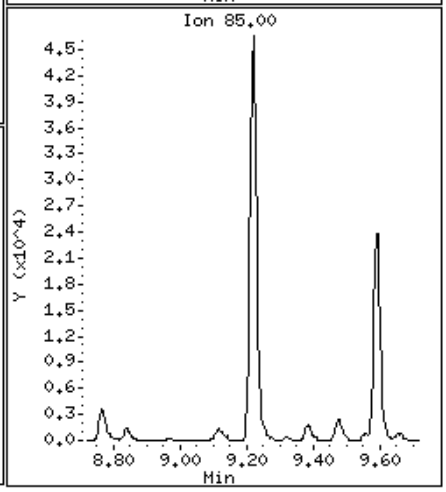


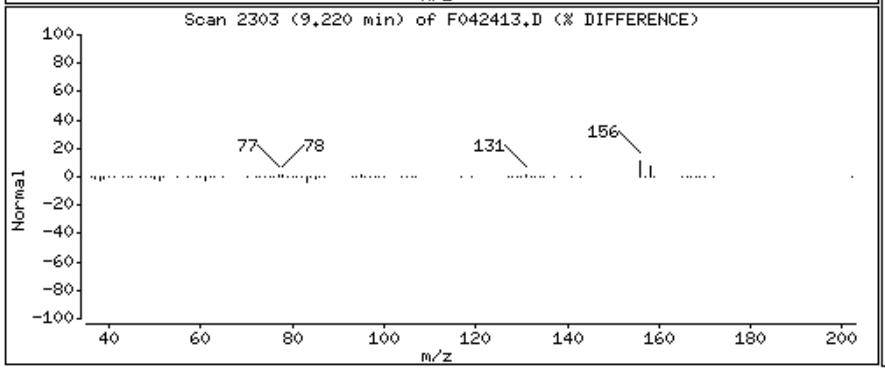












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 63

Date : 24-APR-2024 13:44

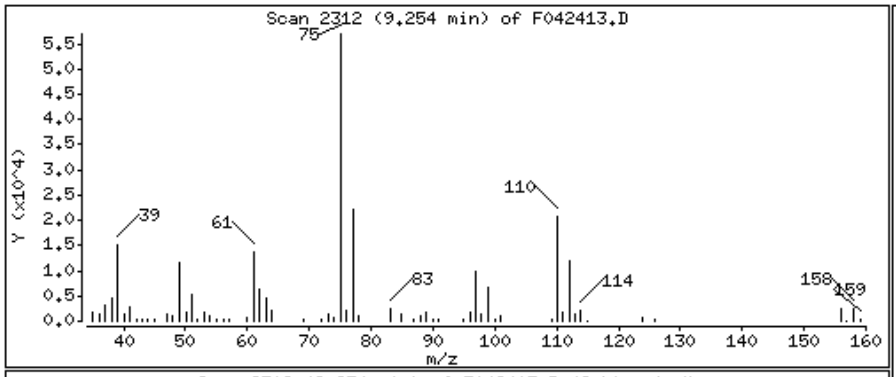
Client ID: VSTD050 Instrument: voa10.i

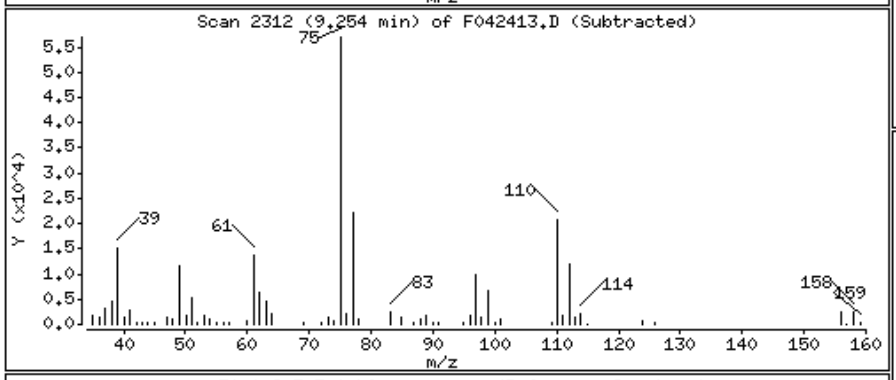
Sample Info: VSTD050;VSTD050;2;;ICV

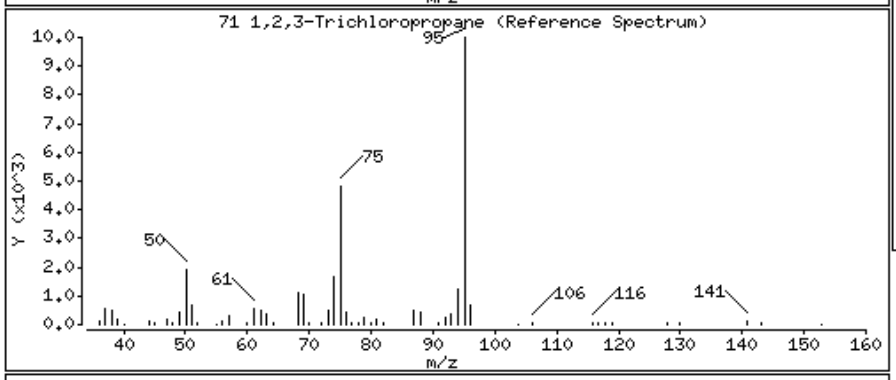
Purge Volume: 5.0 Operator: TS

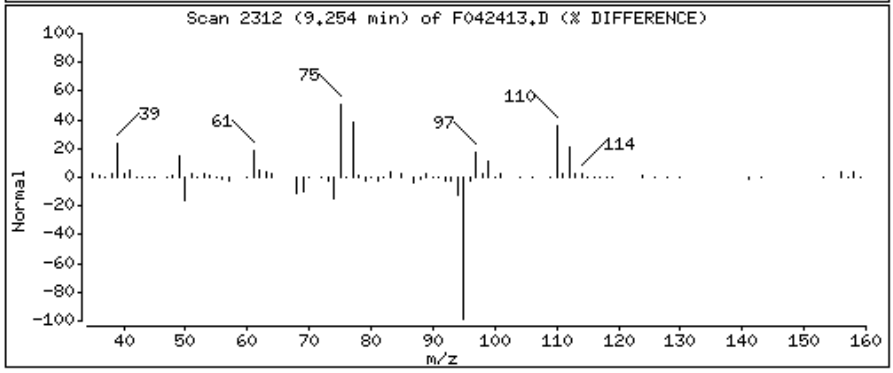
Column phase: DB624 Column diameter: 0.18

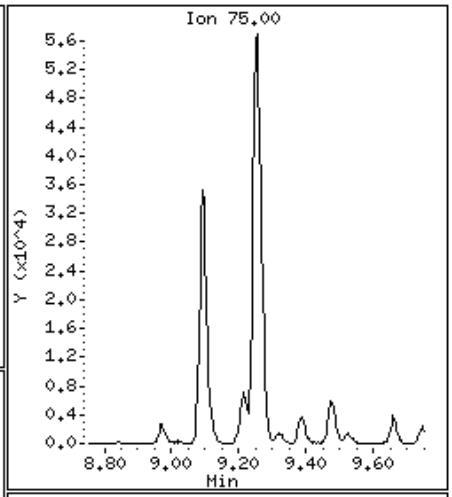
71 1,2,3-Trichloropropane Concentration: 54.22 ug/l

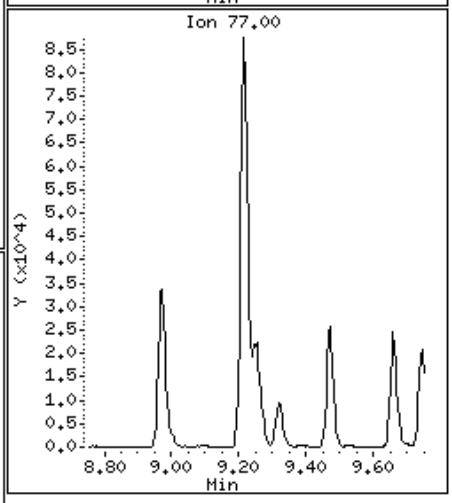












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 64

Date : 24-APR-2024 13:44

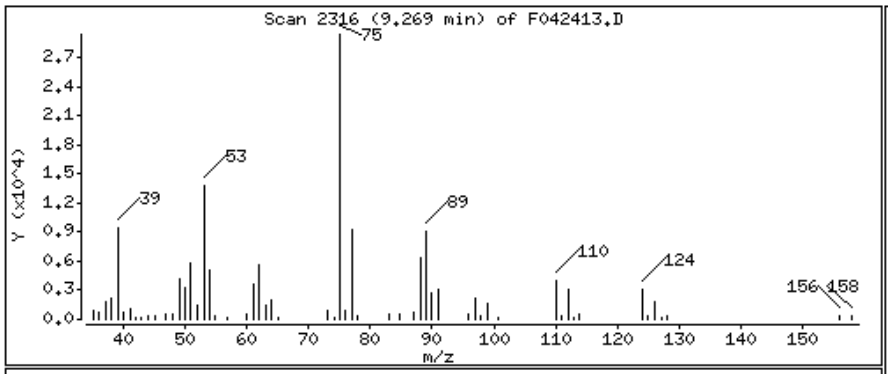
Client ID: VSTD050 Instrument: voa10.i

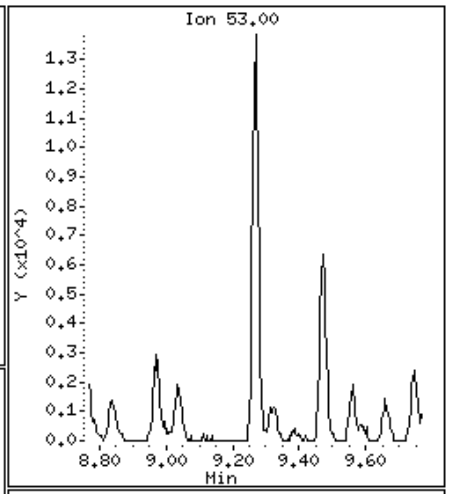
Sample Info: VSTD050;VSTD050;2;;ICV

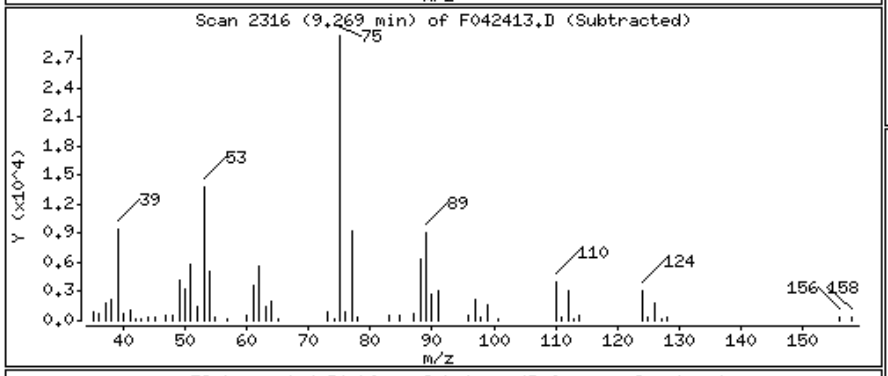
Purge Volume: 5.0 Operator: TS

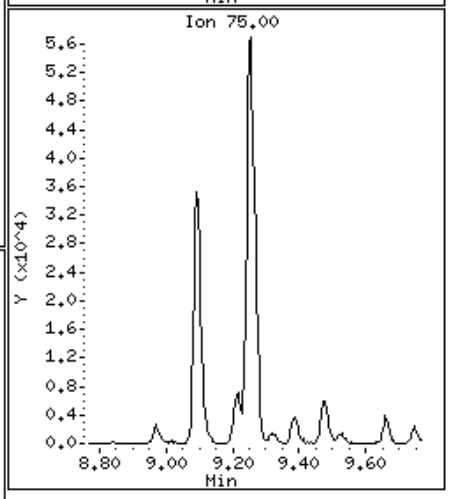
Column phase: DB624 Column diameter: 0.18

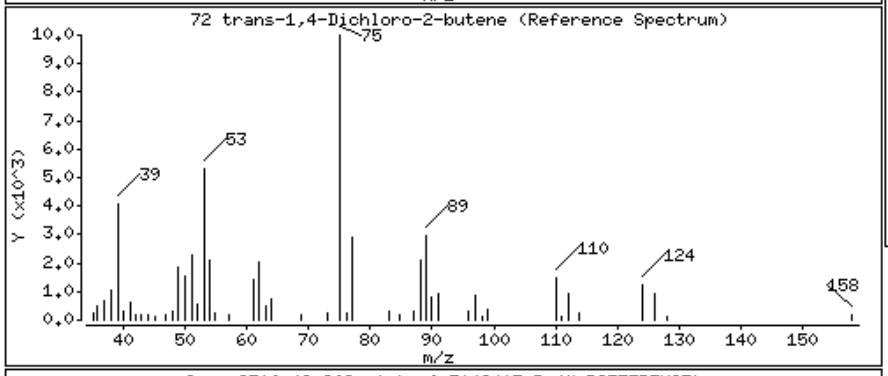
72 trans-1,4-Dichloro-2-butene Concentration: 47.99 ug/l

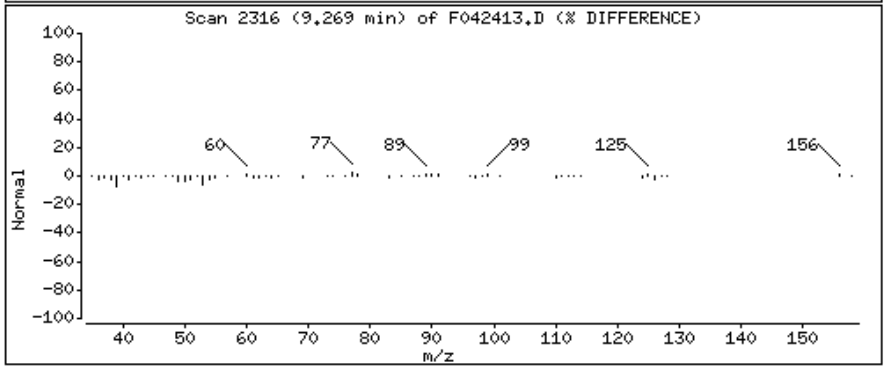












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 65

Date : 24-APR-2024 13:44

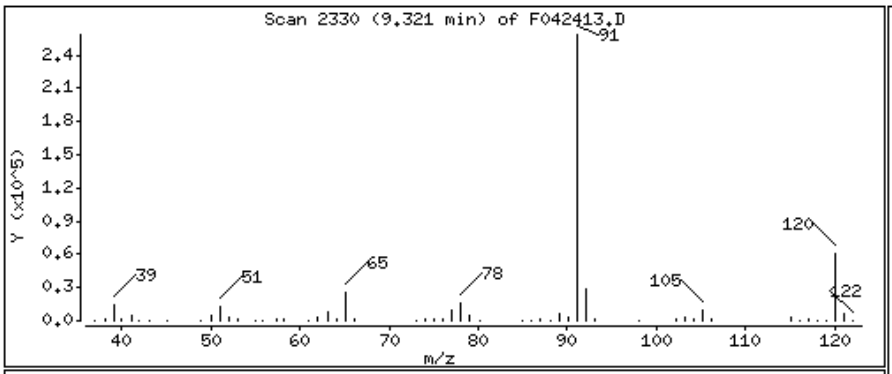
Client ID: VSTD050 Instrument: voa10.i

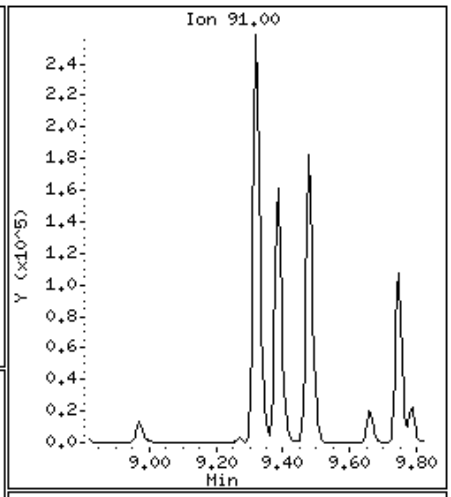
Sample Info: VSTD050;VSTD050;2;;ICV

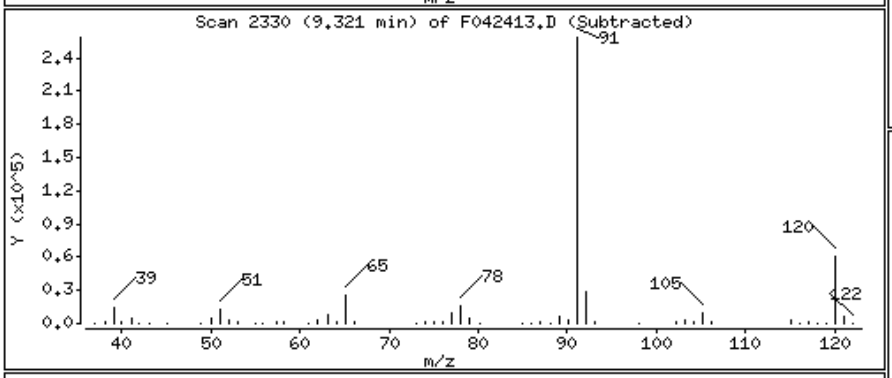
Purge Volume: 5.0 Operator: TS

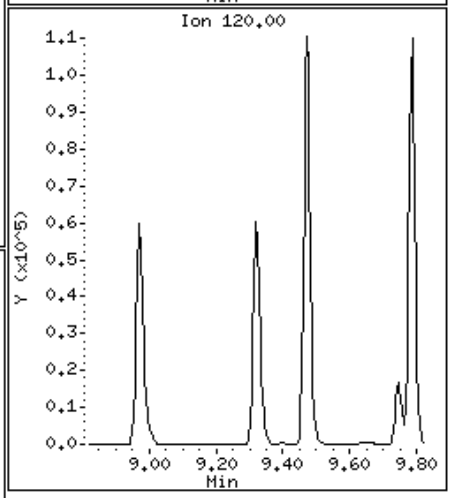
Column phase: DB624 Column diameter: 0.18

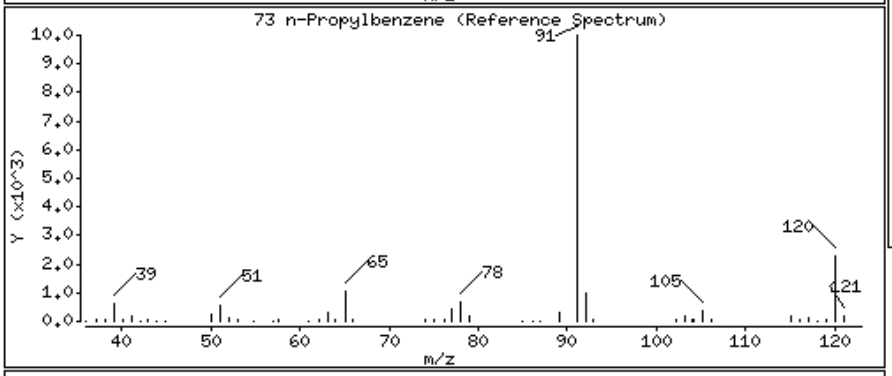
73 n-Propylbenzene Concentration: 55.73 ug/l

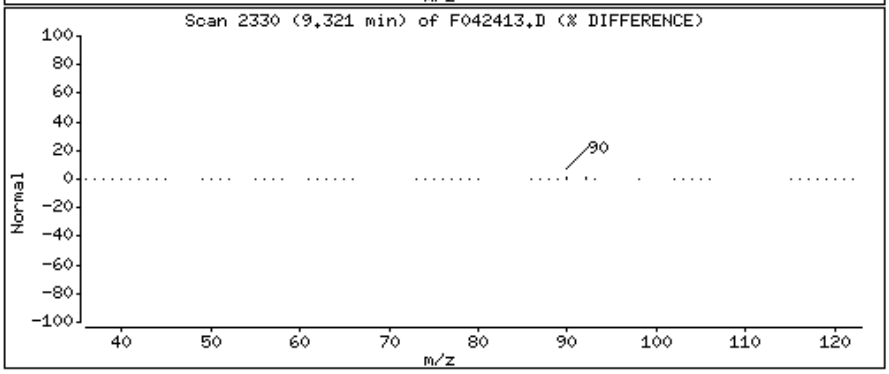












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

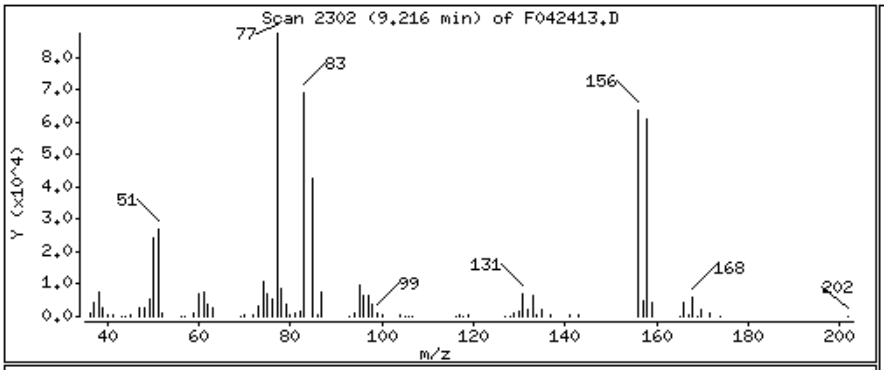
Operator: TS

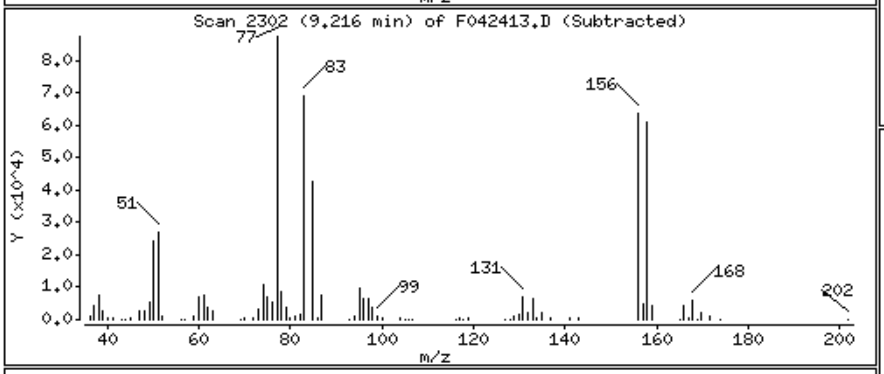
Column phase: DB624

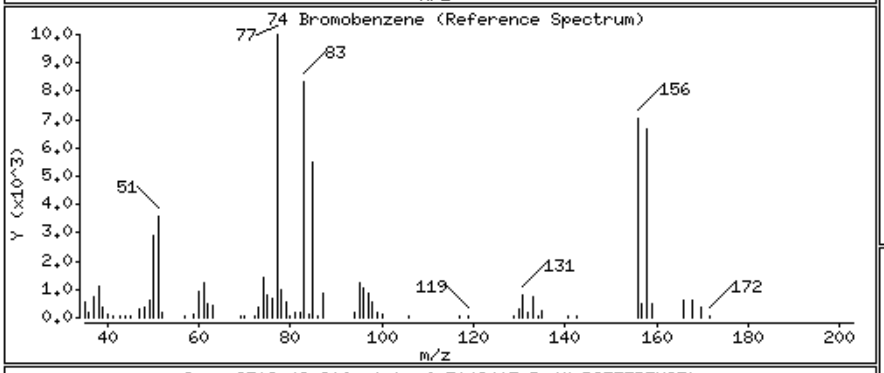
Column diameter: 0.18

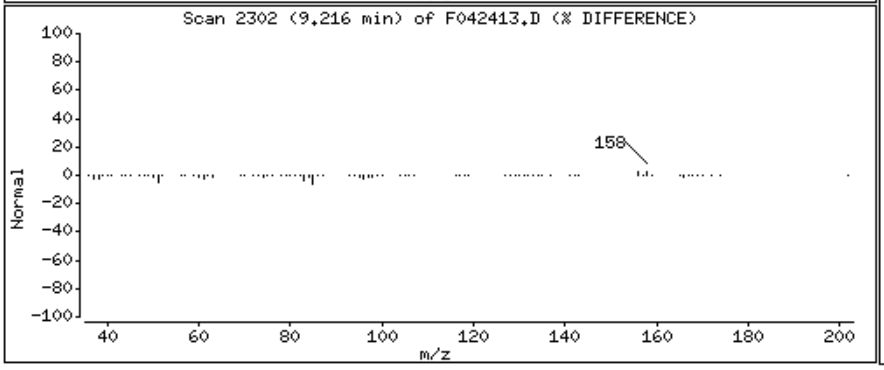
74 Bromobenzene

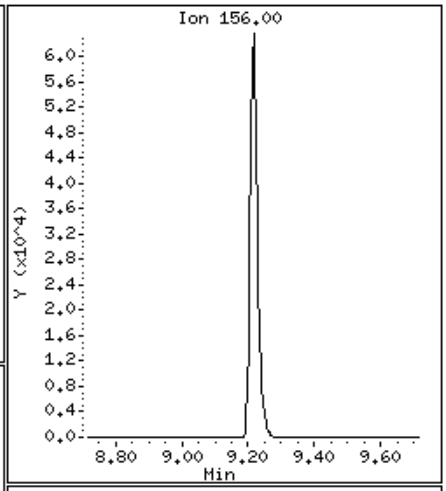
Concentration: 51.51 ug/l

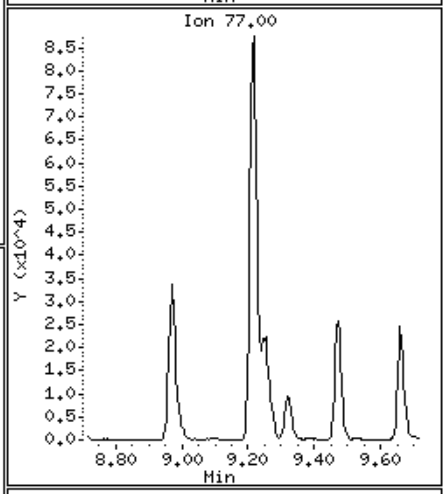


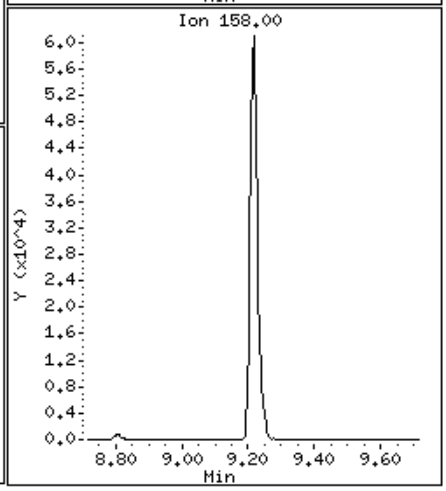












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 67

Date : 24-APR-2024 13:44

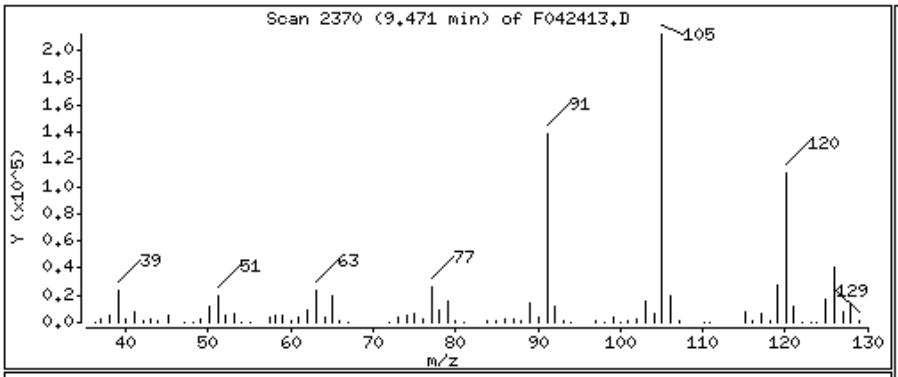
Client ID: VSTD050 Instrument: voa10.i

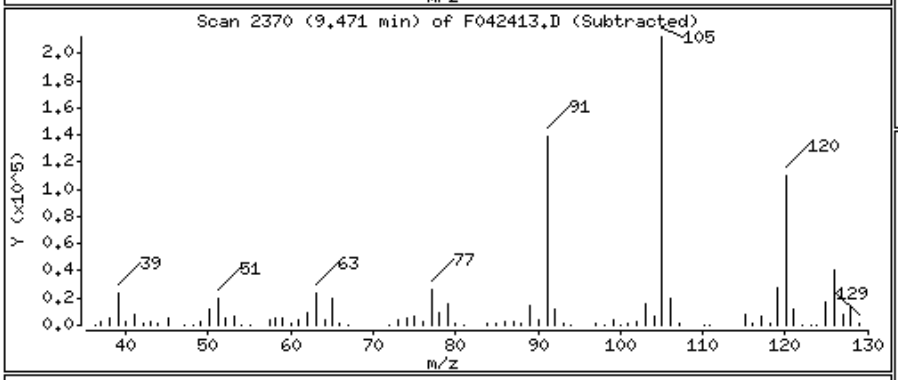
Sample Info: VSTD050;VSTD050;2;;ICV

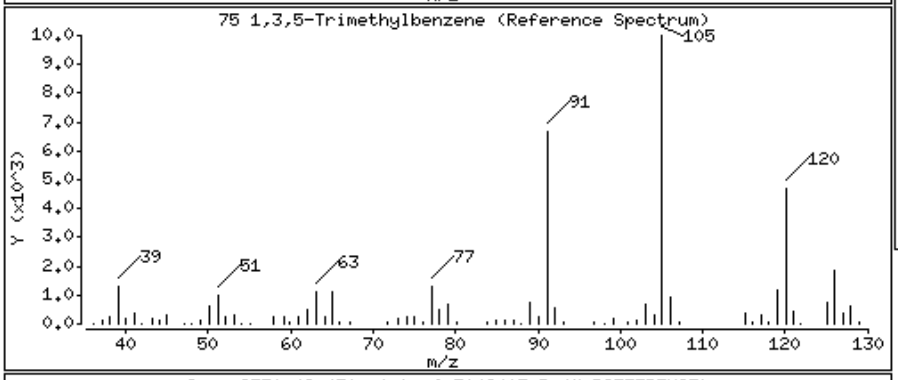
Purge Volume: 5.0 Operator: TS

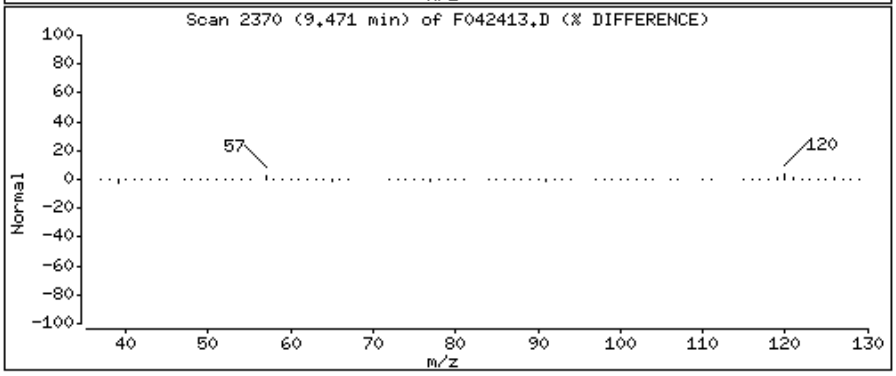
Column phase: DB624 Column diameter: 0.18

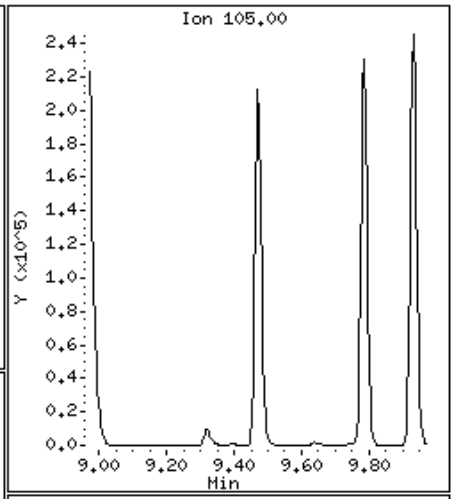
75 1,3,5-Trimethylbenzene Concentration: 54.78 ug/l

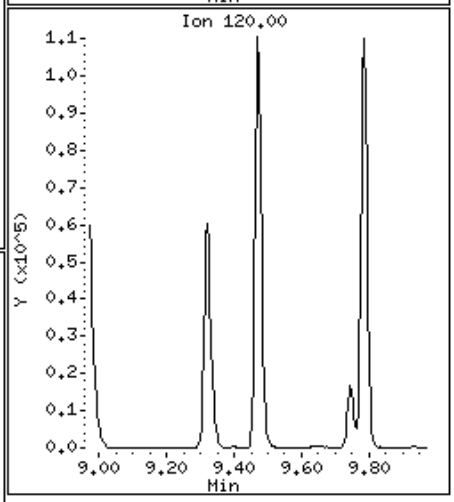












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

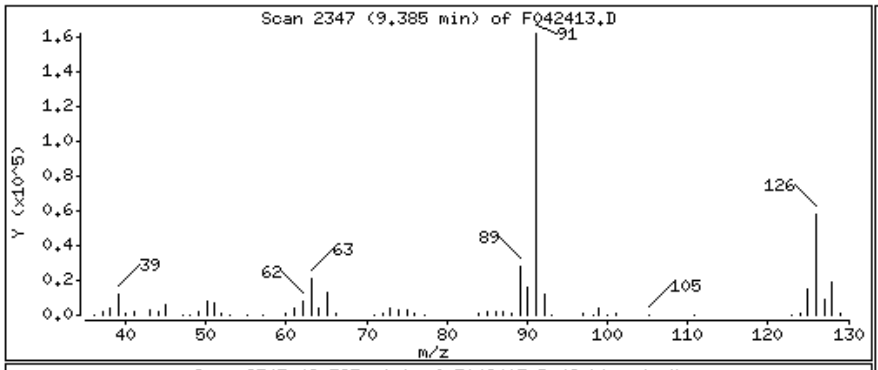
Operator: TS

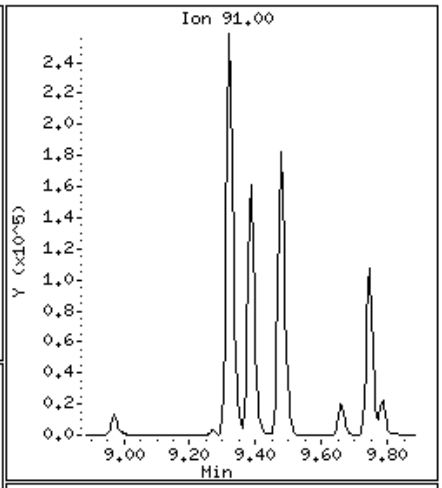
Column phase: DB624

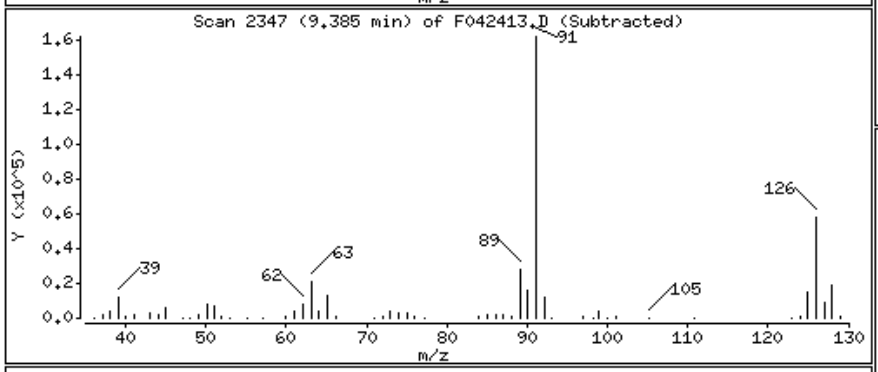
Column diameter: 0.18

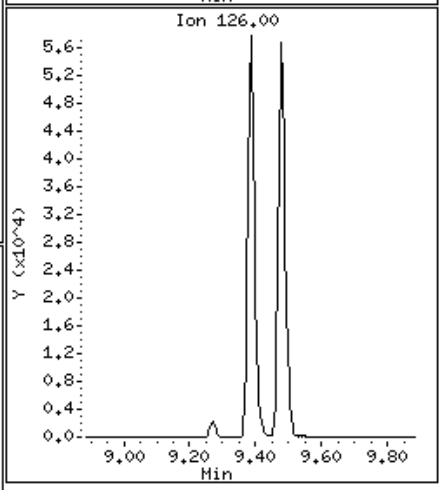
76 2-Chlorotoluene

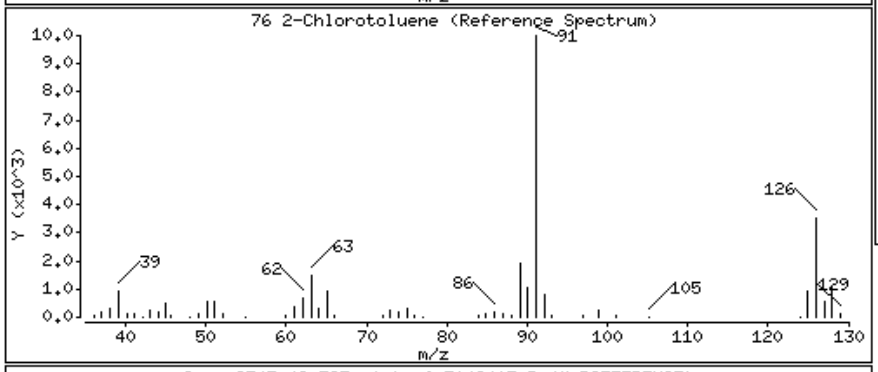
Concentration: 53.27 ug/l

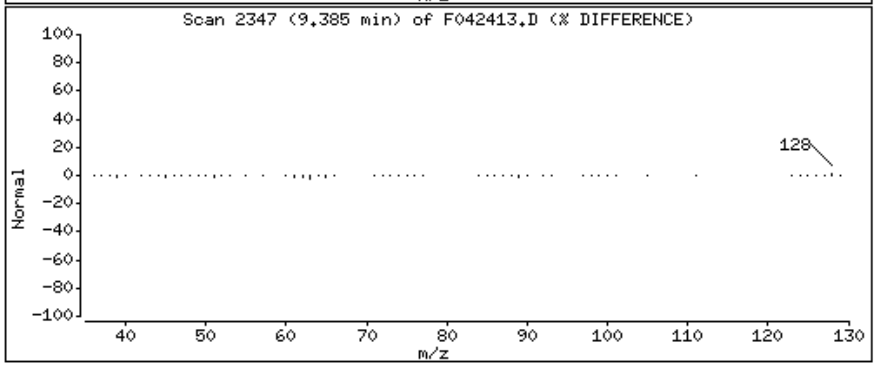












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 69

Date : 24-APR-2024 13:44

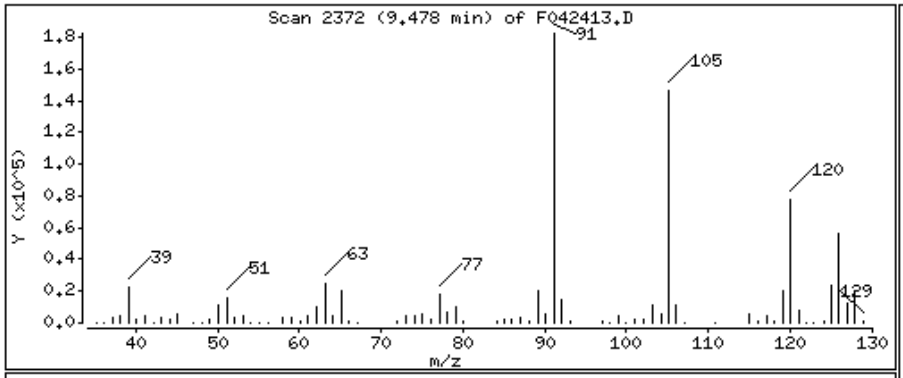
Client ID: VSTD050 Instrument: voa10.i

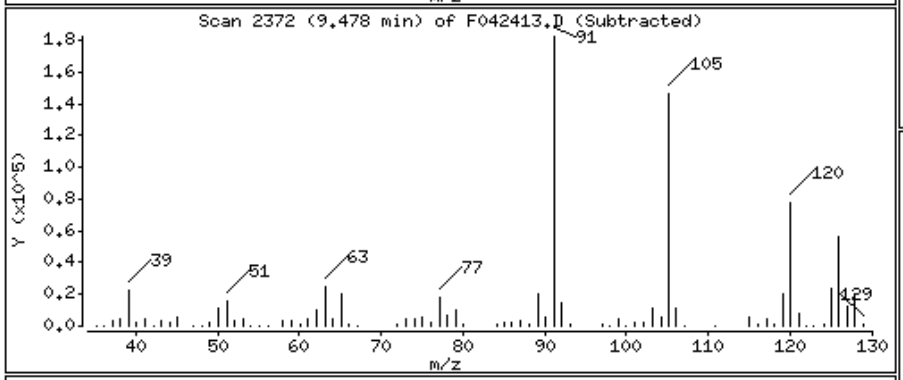
Sample Info: VSTD050;VSTD050;2;;ICV

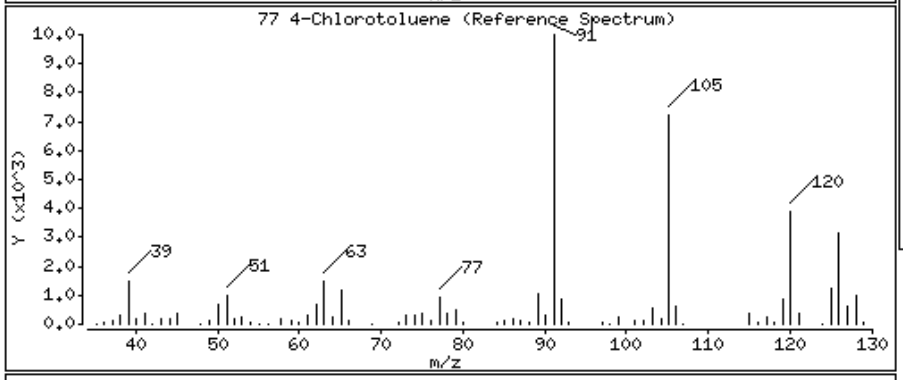
Purge Volume: 5.0 Operator: TS

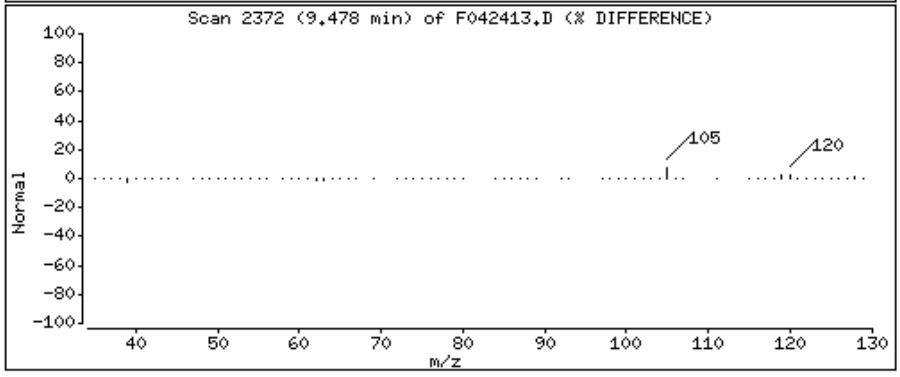
Column phase: DB624 Column diameter: 0.18

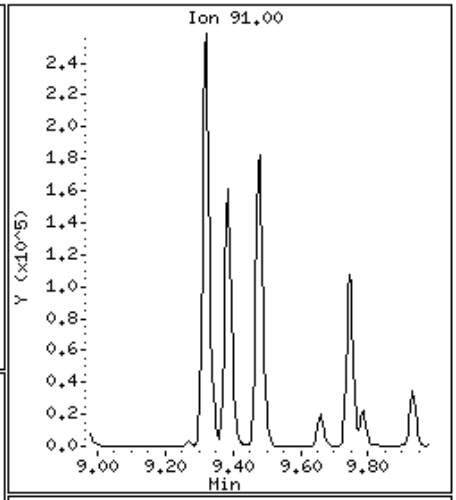
77 4-Chlorotoluene Concentration: 53.47 ug/l

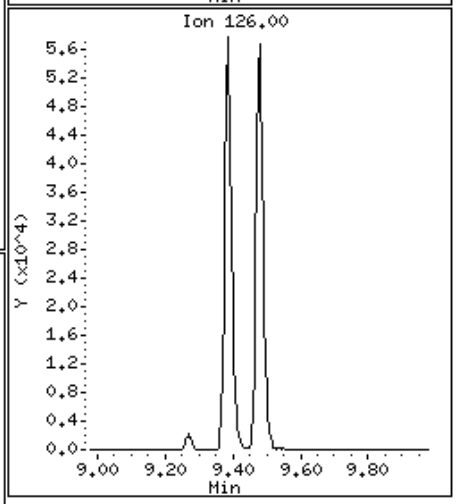












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 70

Date : 24-APR-2024 13:44

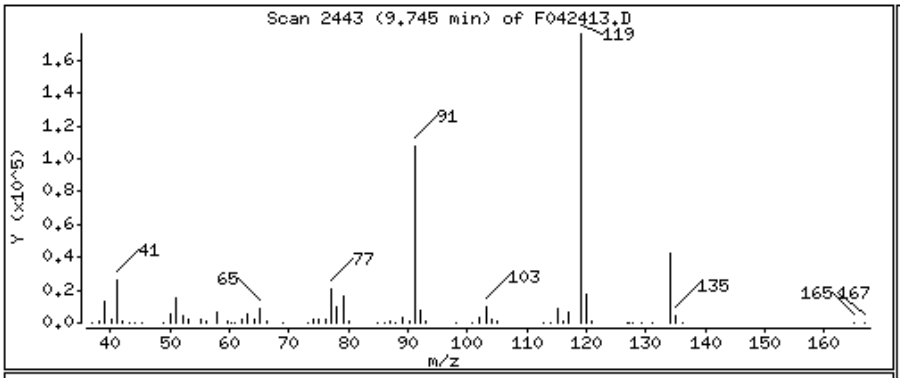
Client ID: VSTD050 Instrument: voa10.i

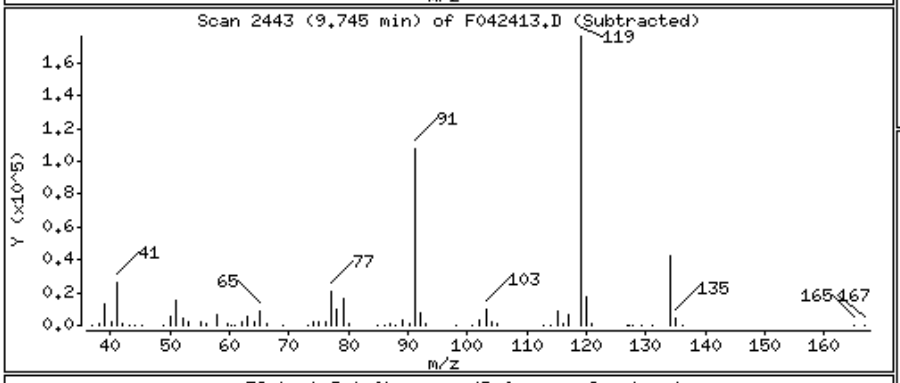
Sample Info: VSTD050;VSTD050;2;;ICV

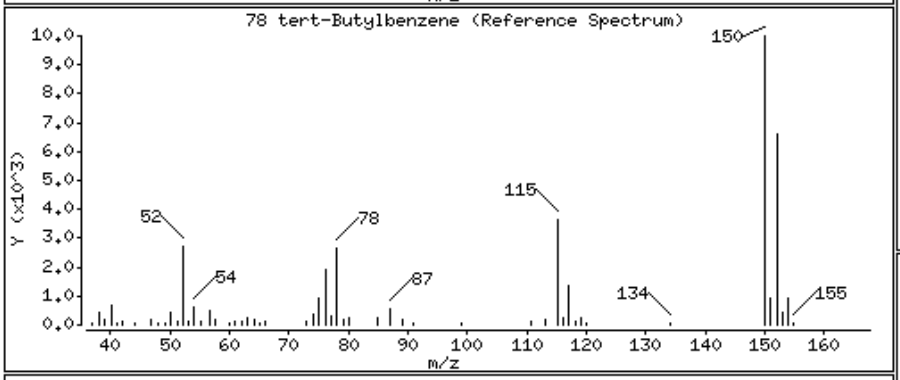
Purge Volume: 5.0 Operator: TS

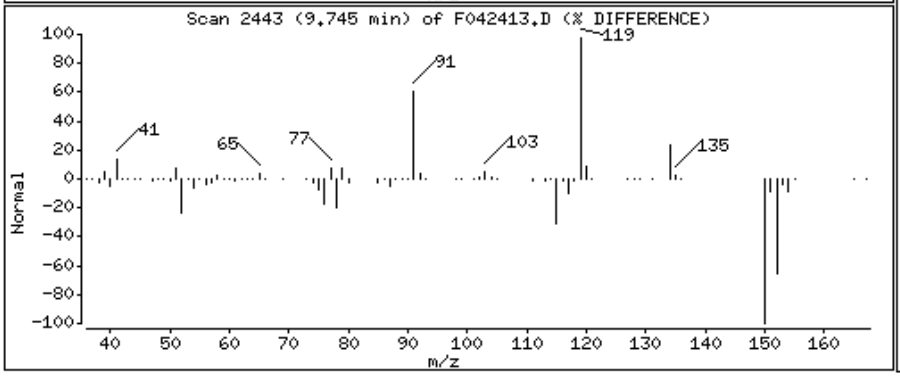
Column phase: DB624 Column diameter: 0.18

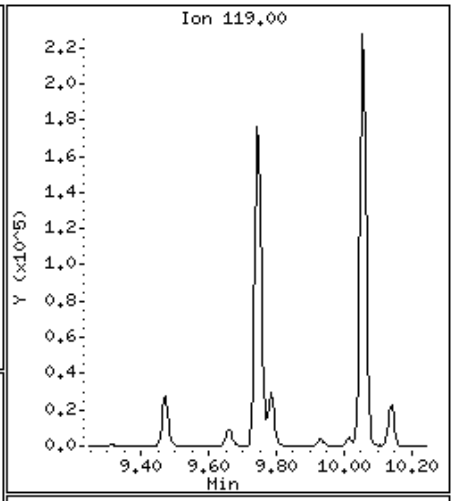
78 tert-Butylbenzene Concentration: 58.63 ug/l

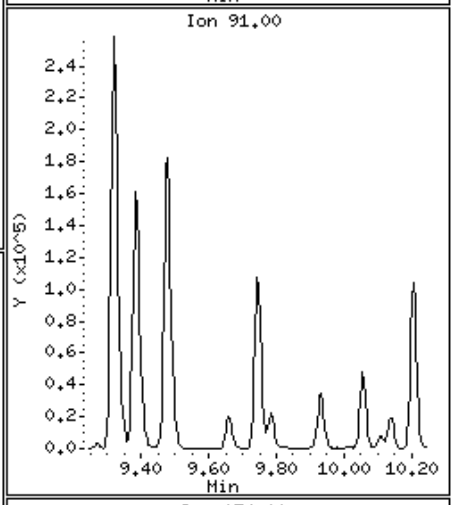


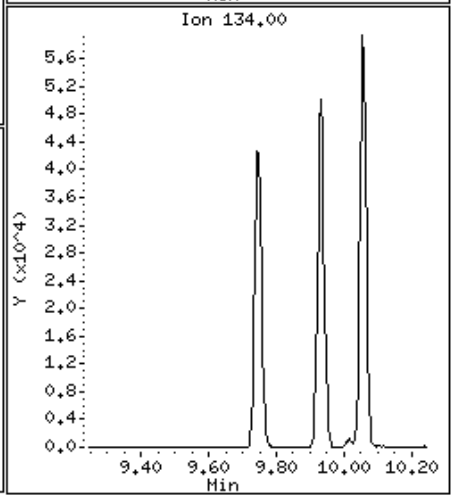












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 71

Date : 24-APR-2024 13:44

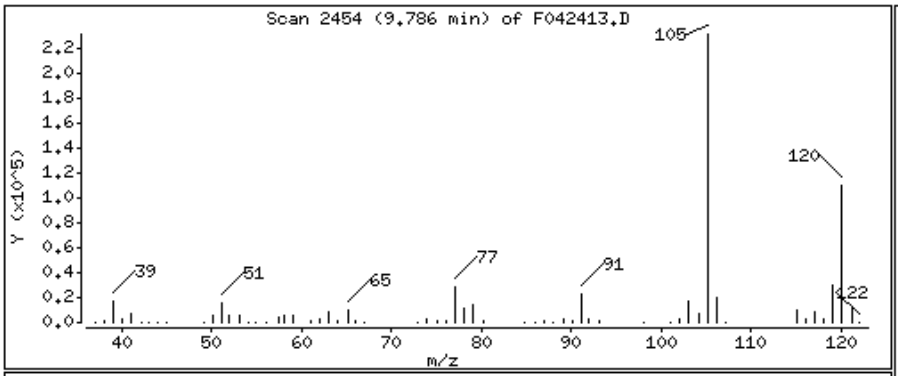
Client ID: VSTD050 Instrument: voa10.i

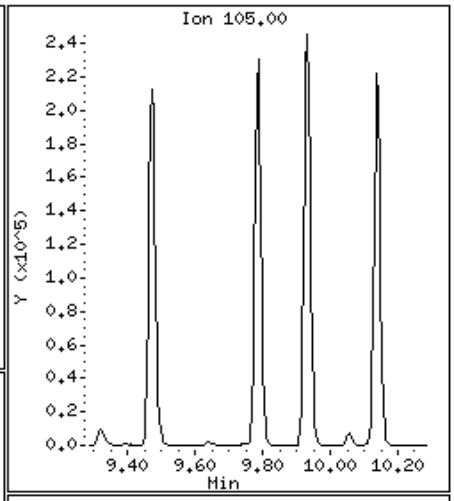
Sample Info: VSTD050;VSTD050;2;;ICV

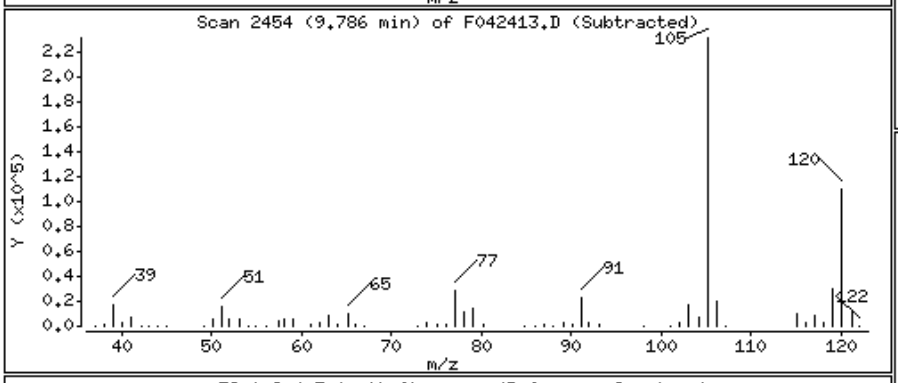
Purge Volume: 5.0 Operator: TS

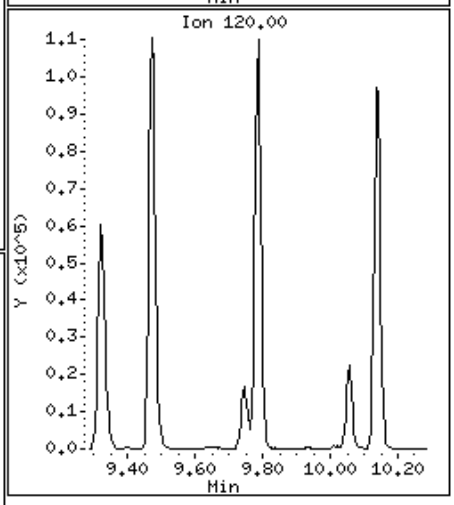
Column phase: DB624 Column diameter: 0.18

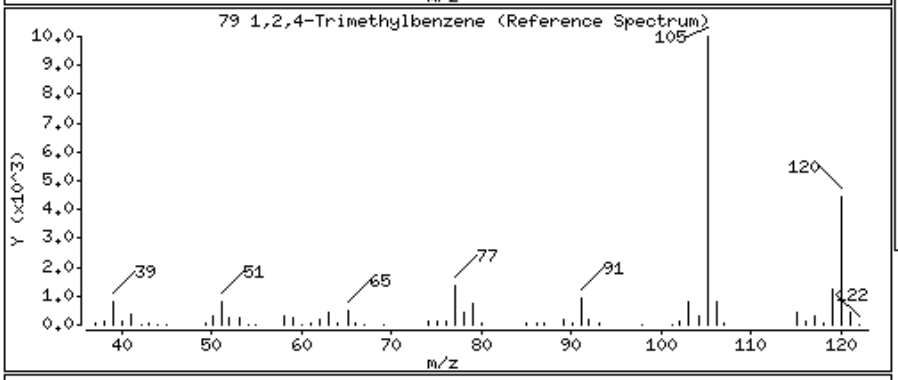
79 1,2,4-Trimethylbenzene Concentration: 56.49 ug/l

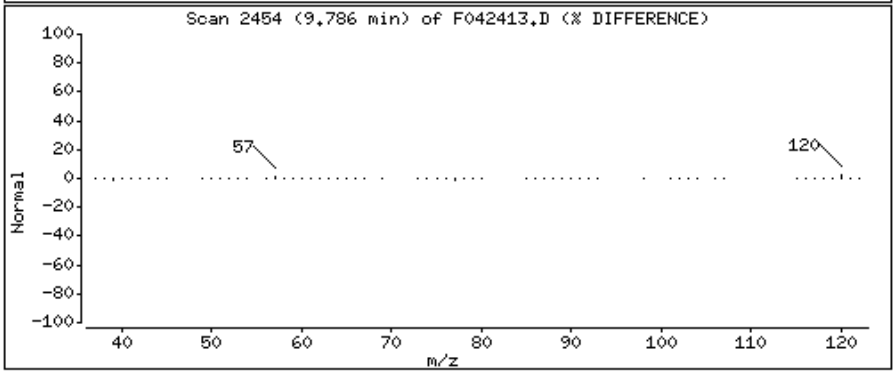












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 72

Date : 24-APR-2024 13:44

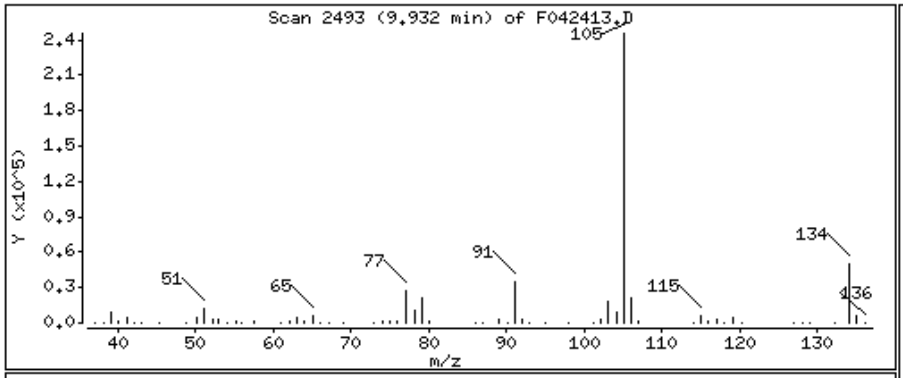
Client ID: VSTD050 Instrument: voa10.i

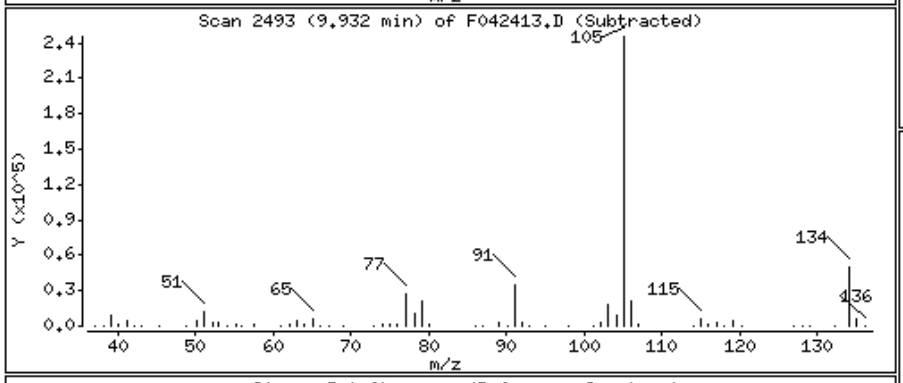
Sample Info: VSTD050;VSTD050;2;;ICV

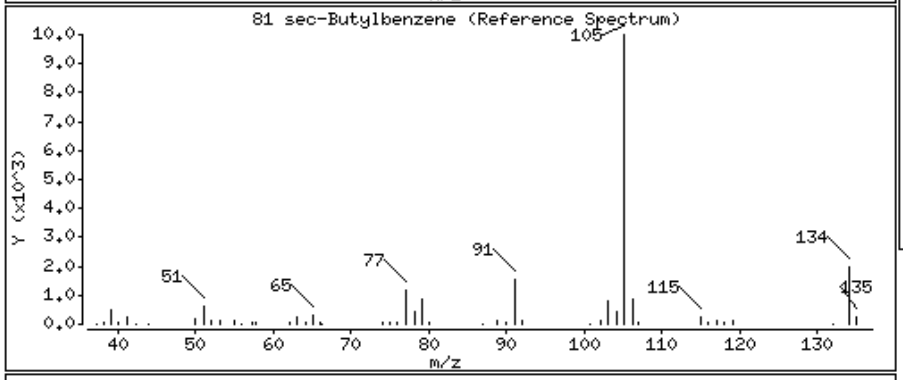
Purge Volume: 5.0 Operator: TS

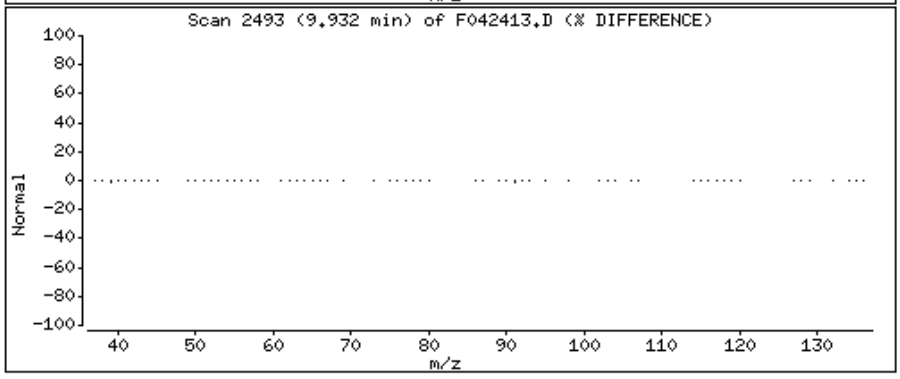
Column phase: DB624 Column diameter: 0.18

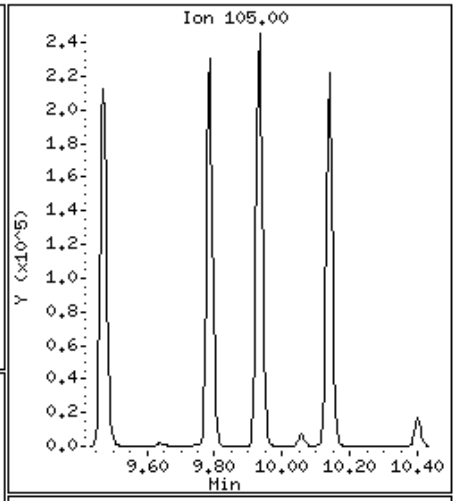
81 sec-Butylbenzene Concentration: 59.16 ug/l

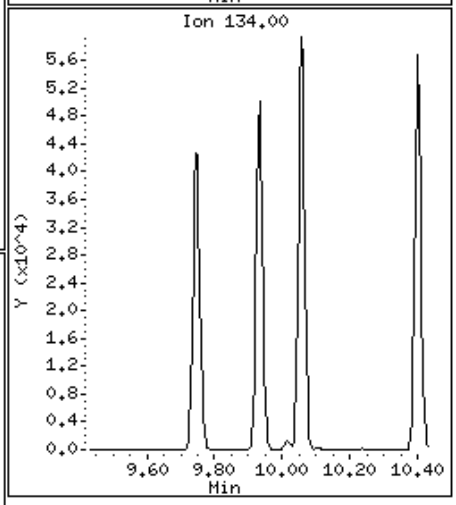












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

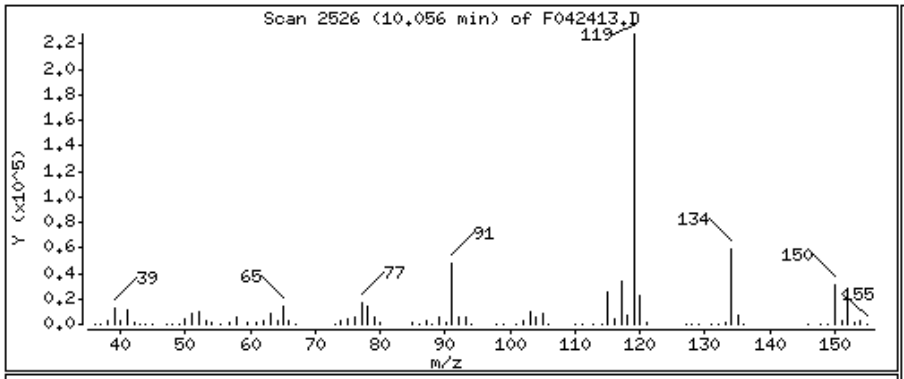
Operator: TS

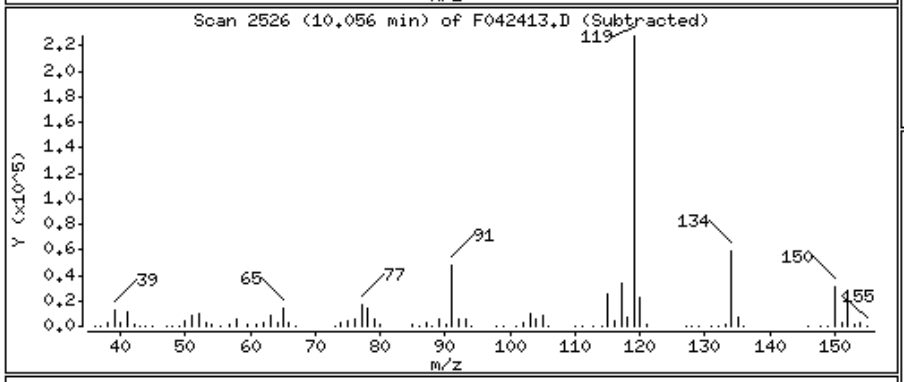
Column phase: DB624

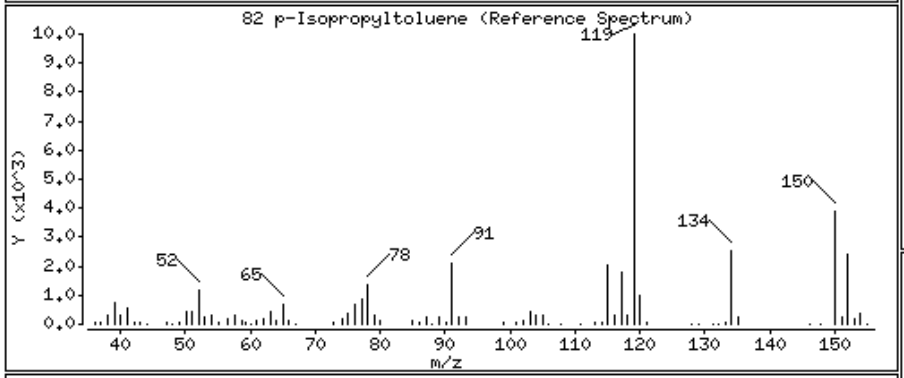
Column diameter: 0.18

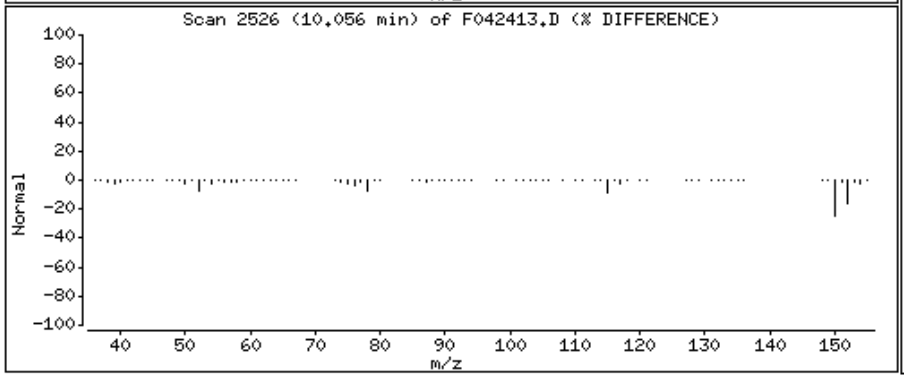
82 p-Isopropyltoluene

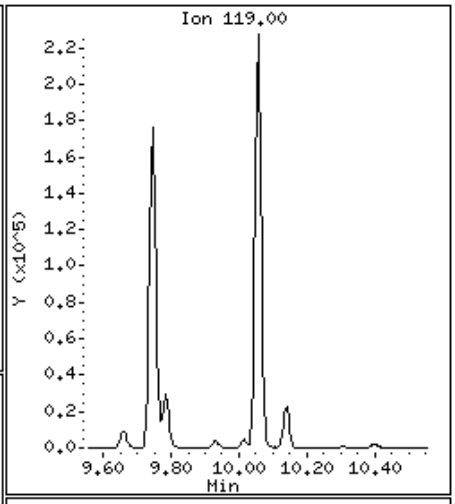
Concentration: 56.54 ug/l

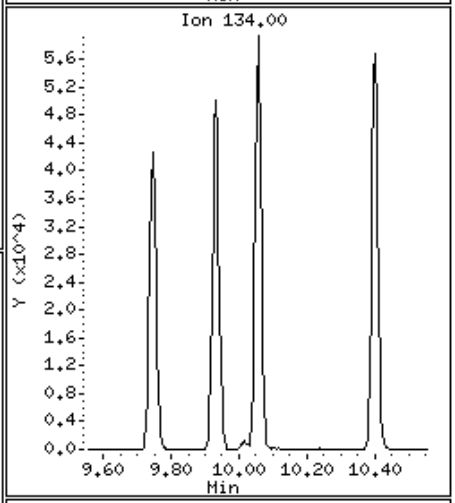


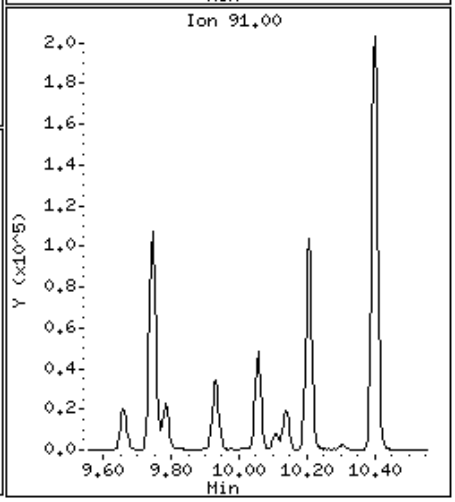












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 74

Date : 24-APR-2024 13:44

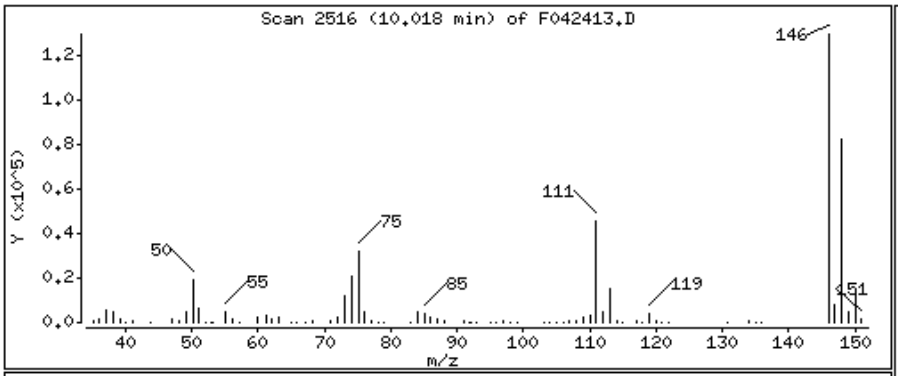
Client ID: VSTD050 Instrument: voa10.i

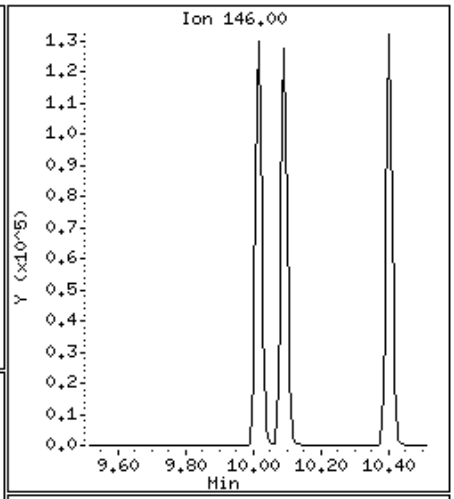
Sample Info: VSTD050;VSTD050;2;;ICV

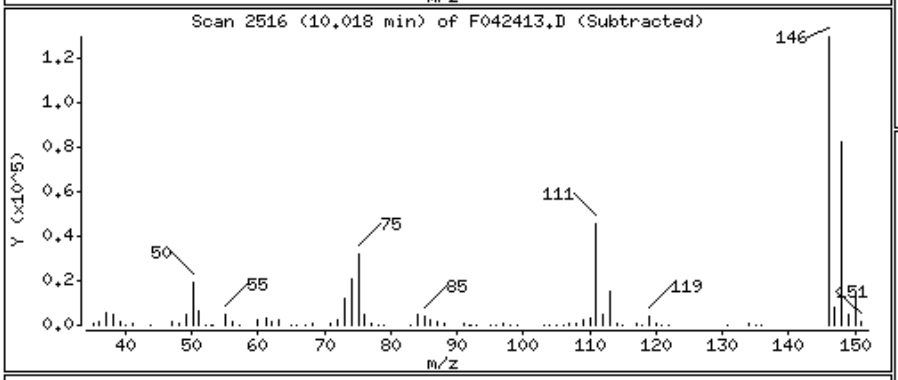
Purge Volume: 5.0 Operator: TS

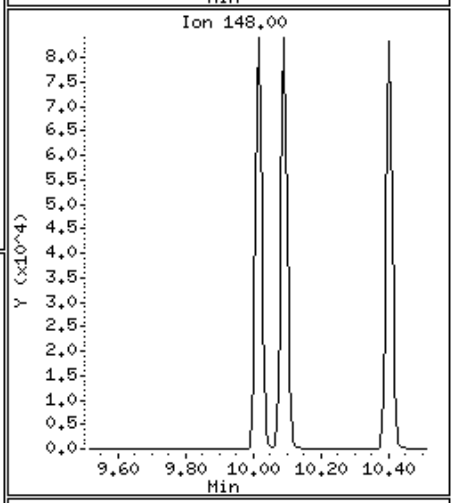
Column phase: DB624 Column diameter: 0.18

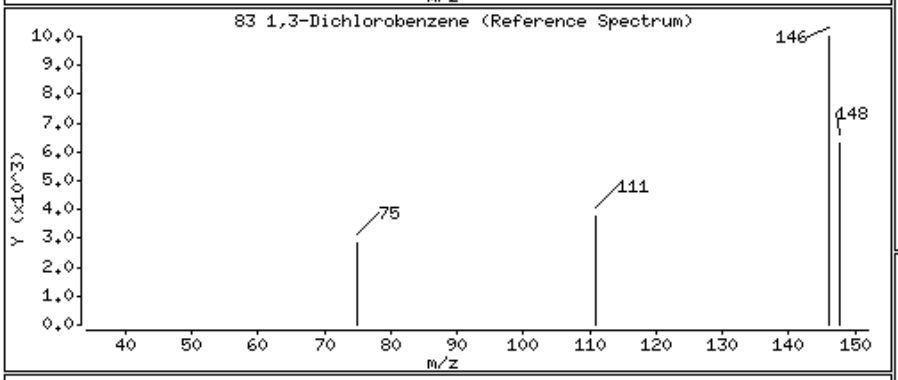
83 1,3-Dichlorobenzene Concentration: 53.63 ug/l

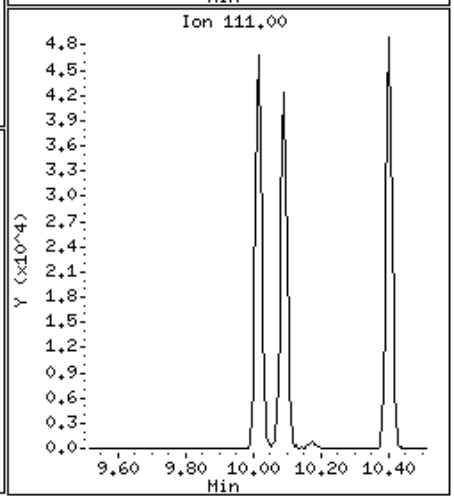


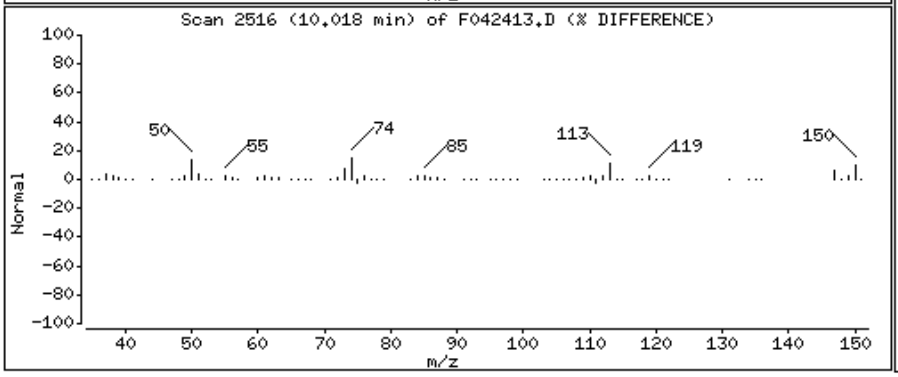












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 75

Date : 24-APR-2024 13:44

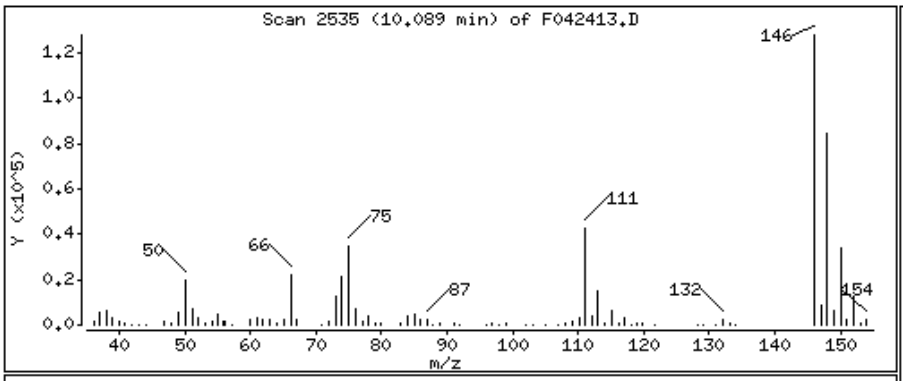
Client ID: VSTD050 Instrument: voa10.i

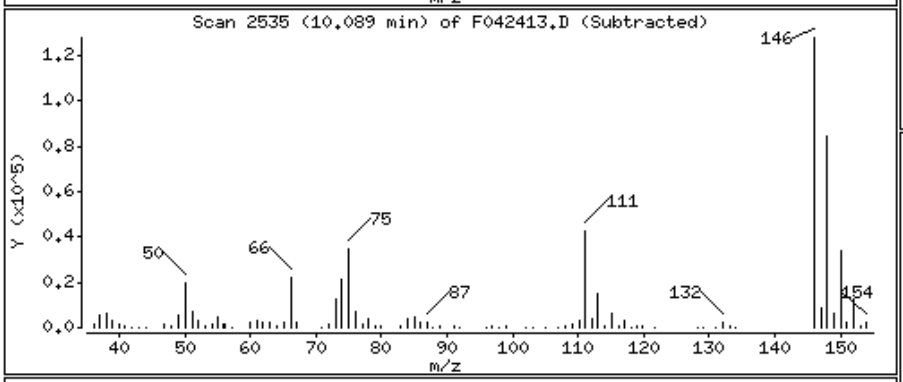
Sample Info: VSTD050;VSTD050;2;;ICV

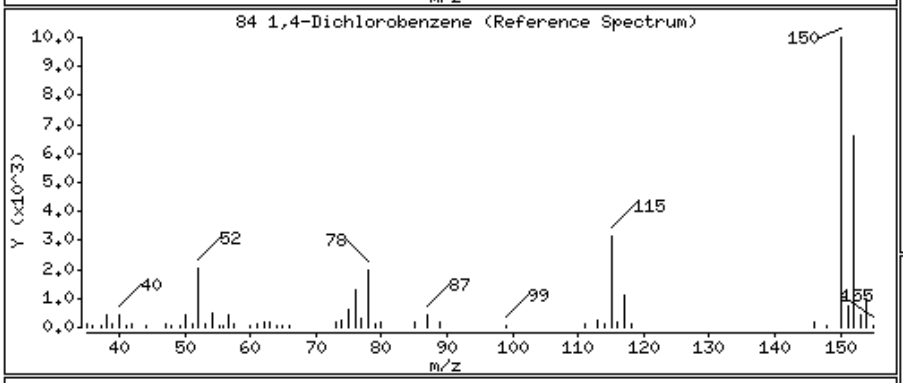
Purge Volume: 5.0 Operator: TS

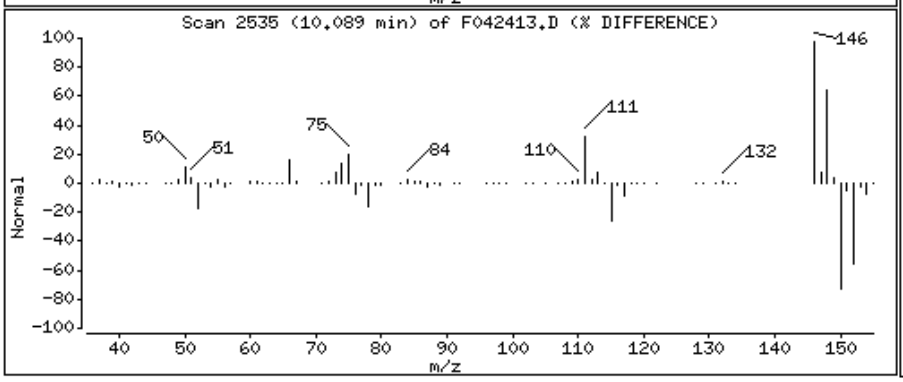
Column phase: DB624 Column diameter: 0.18

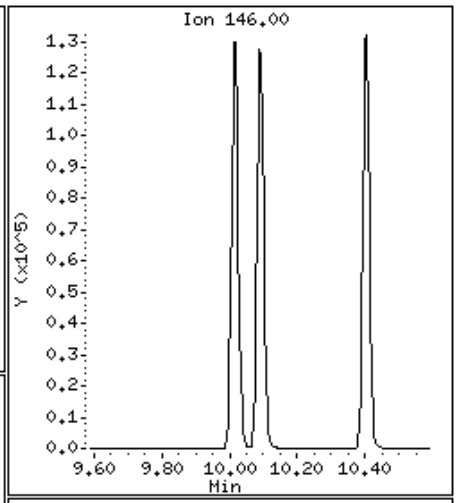
84 1,4-Dichlorobenzene Concentration: 49.78 ug/l

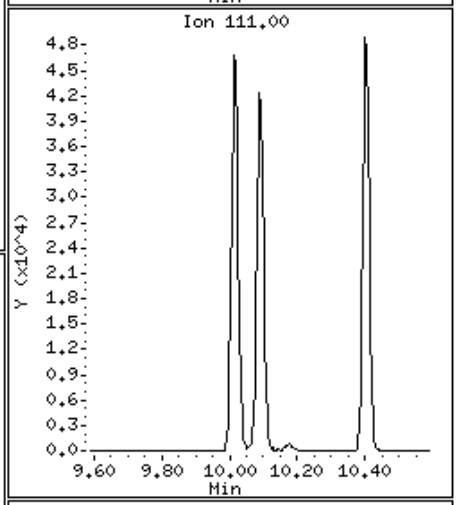


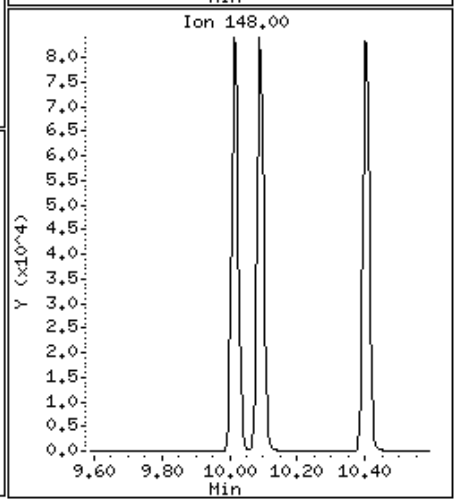












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

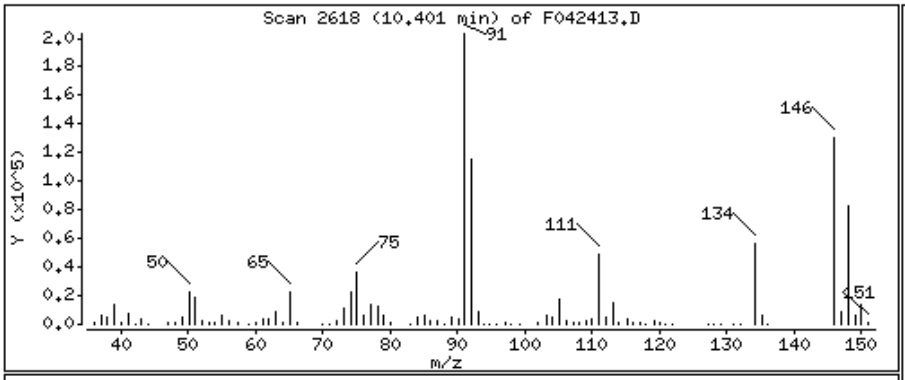
Operator: TS

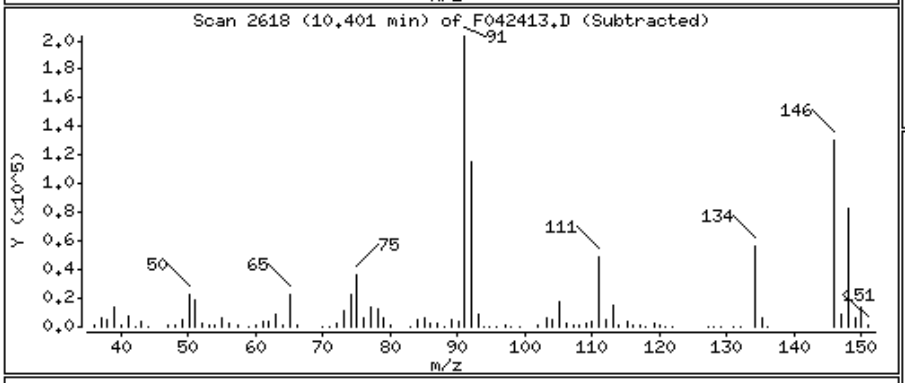
Column phase: DB624

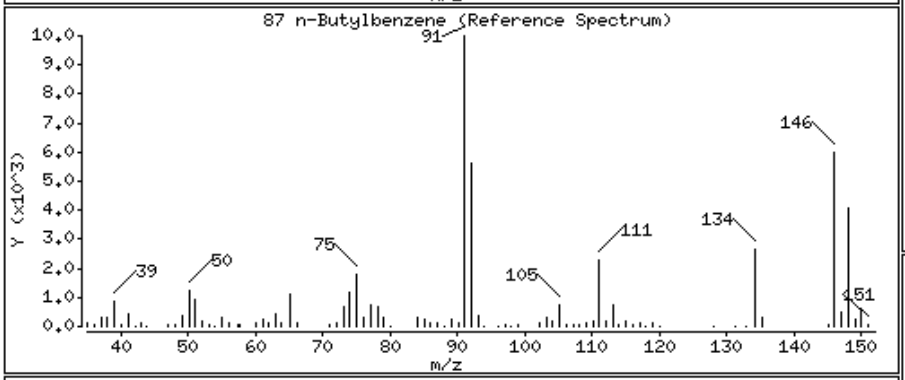
Column diameter: 0.18

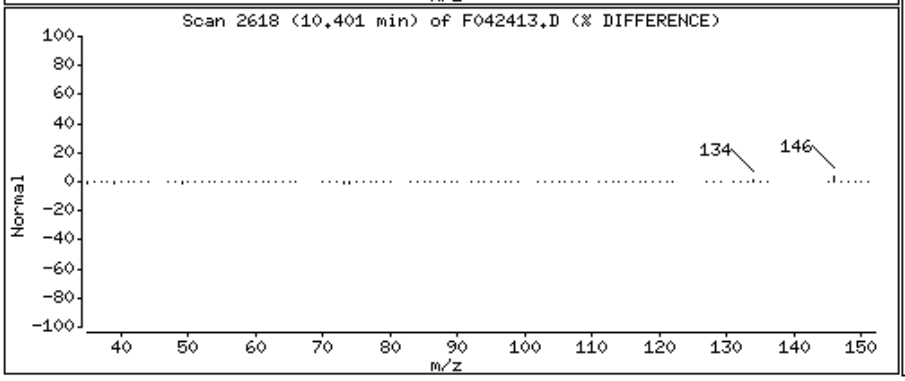
87 n-Butylbenzene

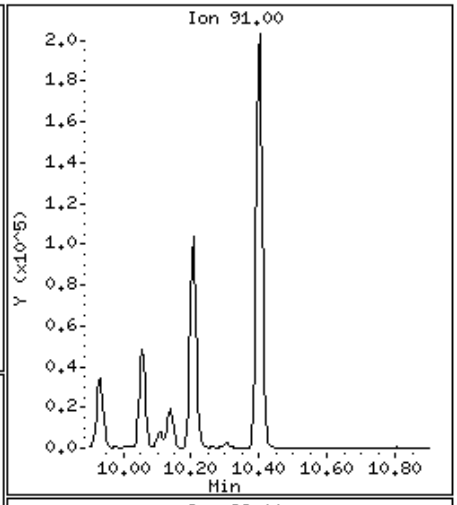
Concentration: 57.83 ug/l

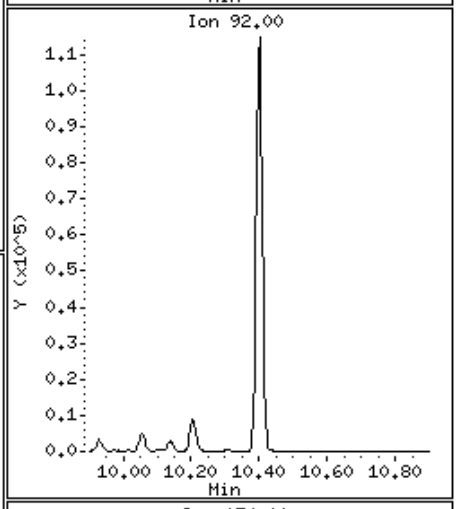


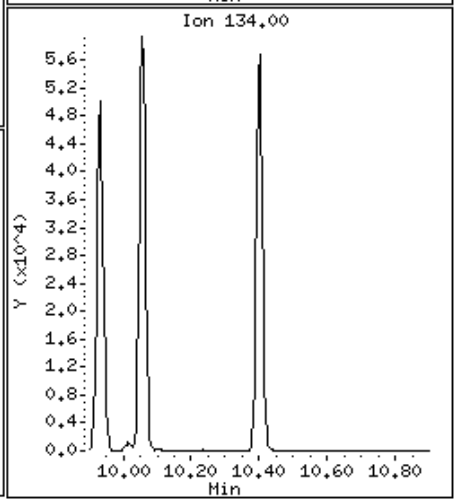












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 77

Date : 24-APR-2024 13:44

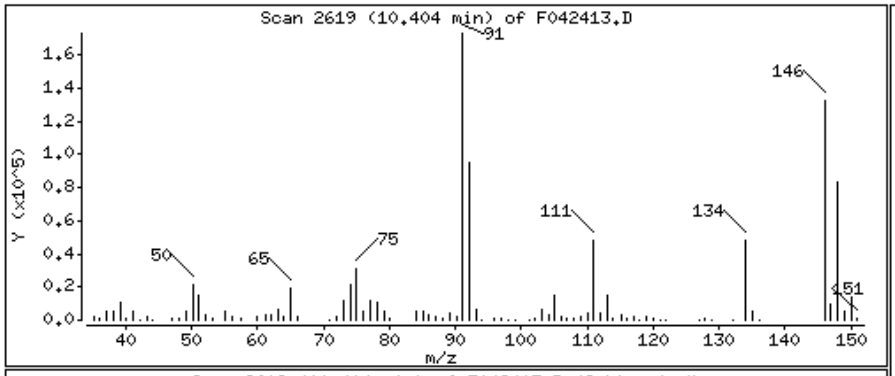
Client ID: VSTD050 Instrument: voa10.i

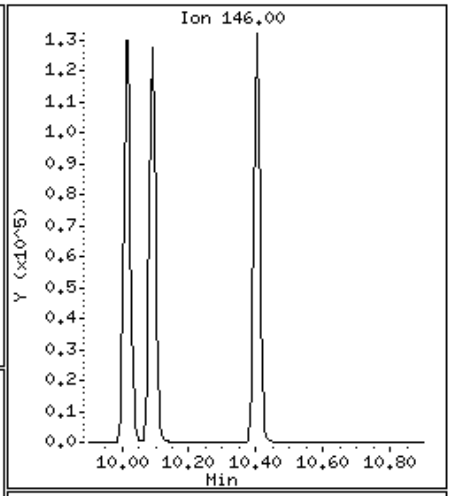
Sample Info: VSTD050;VSTD050;2;;ICV

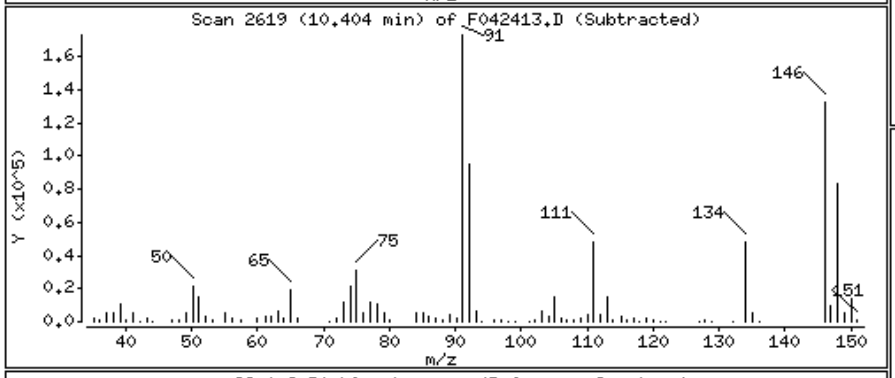
Purge Volume: 5.0 Operator: TS

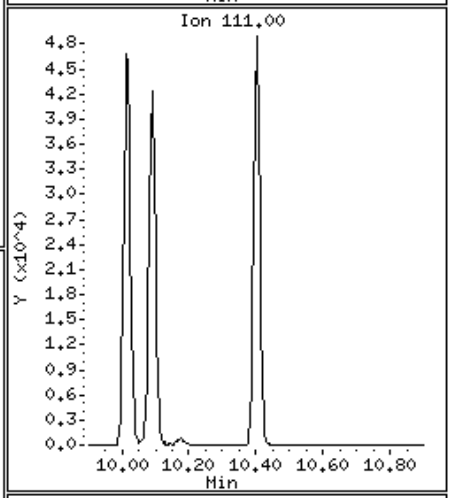
Column phase: DB624 Column diameter: 0.18

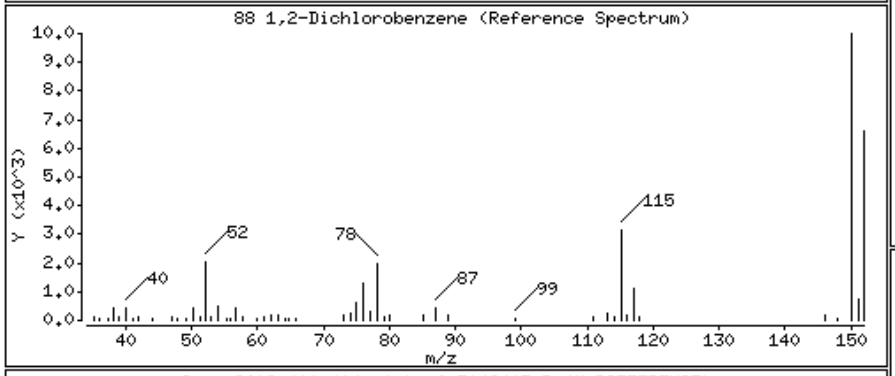
88 1,2-Dichlorobenzene Concentration: 51.62 ug/l

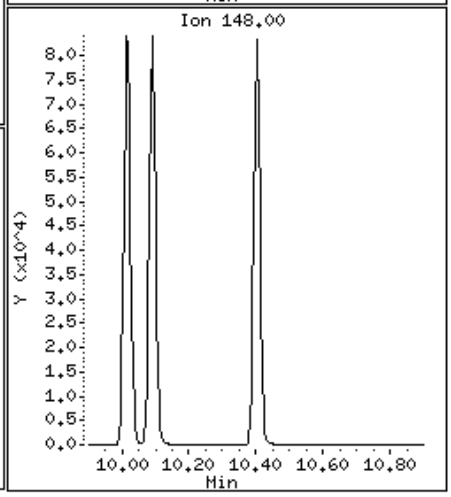


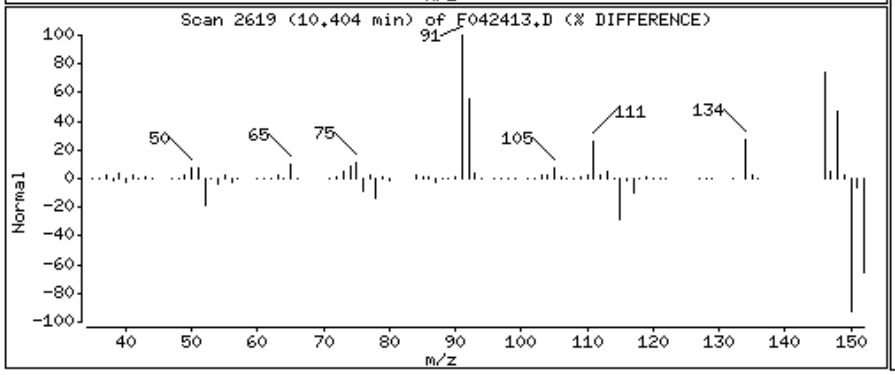












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 78

Date : 24-APR-2024 13:44

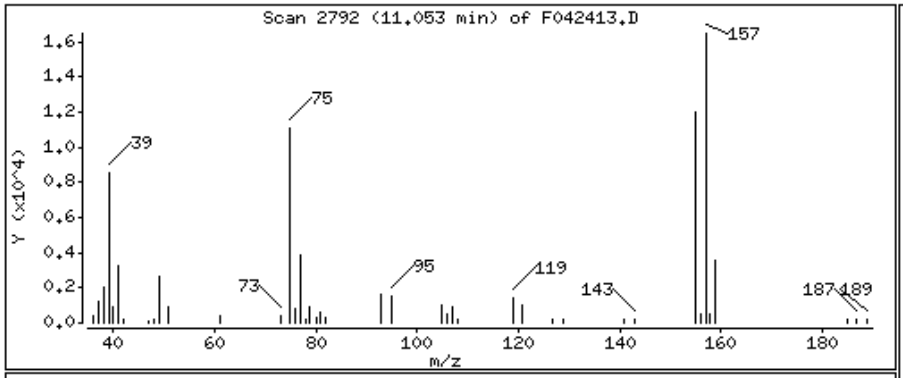
Client ID: VSTD050 Instrument: voa10.i

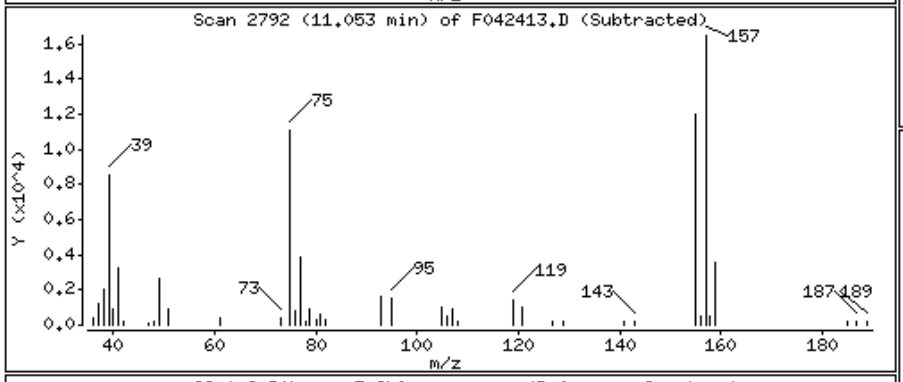
Sample Info: VSTD050;VSTD050;2;;ICV

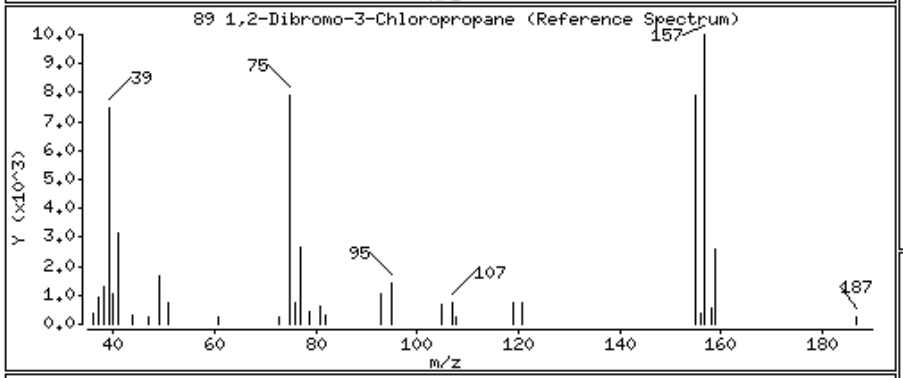
Purge Volume: 5.0 Operator: TS

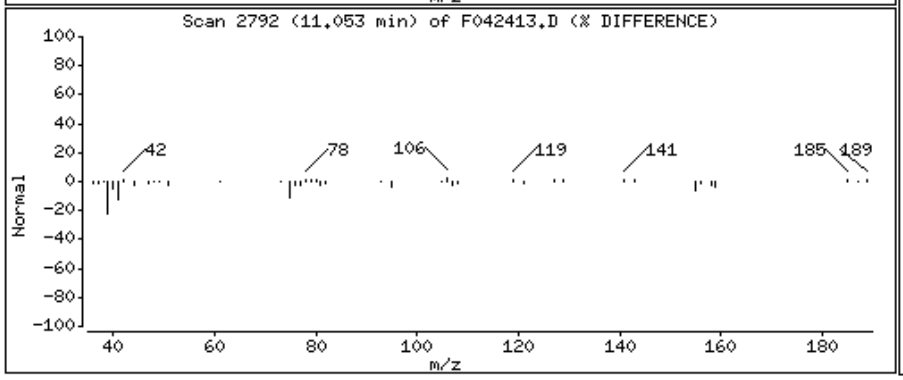
Column phase: DB624 Column diameter: 0.18

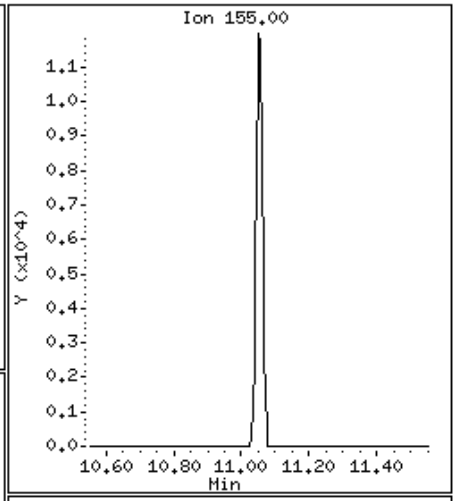
89 1,2-Dibromo-3-Chloropropane Concentration: 54.60 ug/l

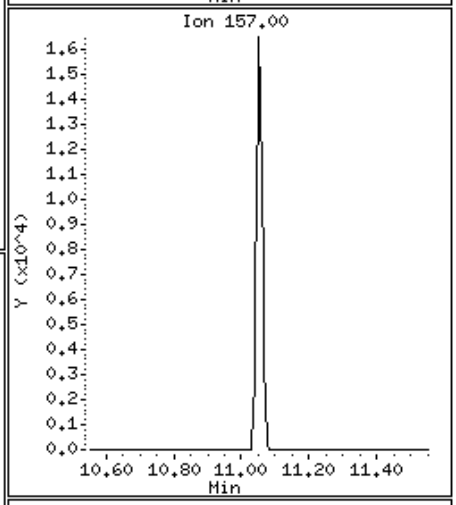


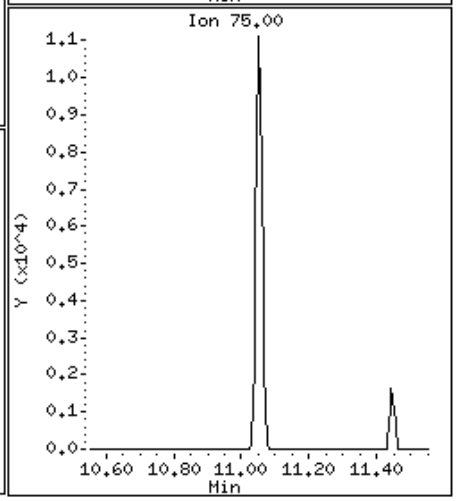












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 79

Date : 24-APR-2024 13:44

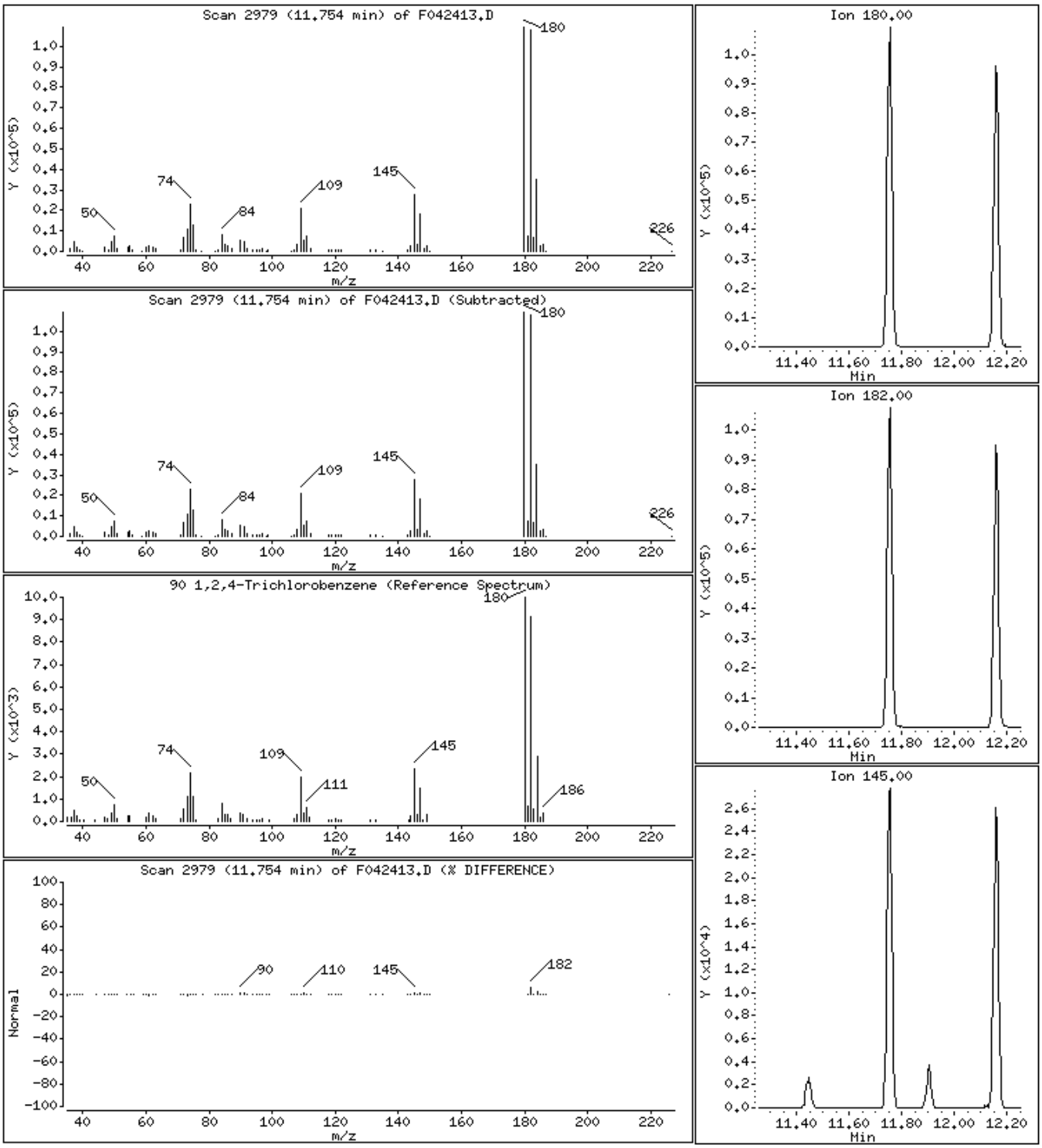
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

90 1,2,4-Trichlorobenzene Concentration: 55.90 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 80

Date : 24-APR-2024 13:44

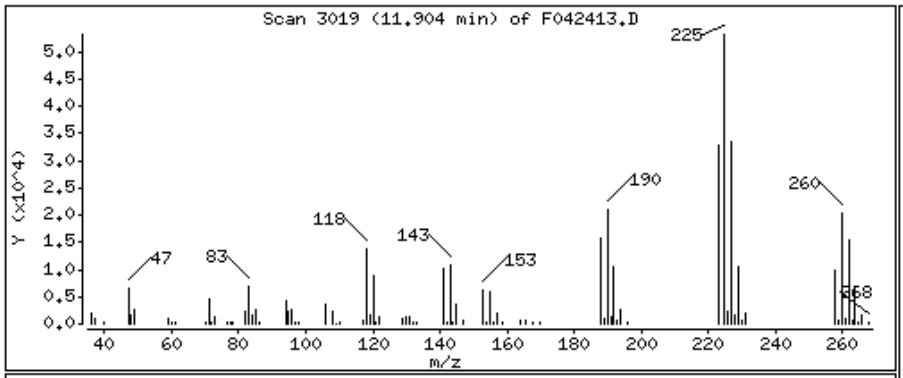
Client ID: VSTD050 Instrument: voa10.i

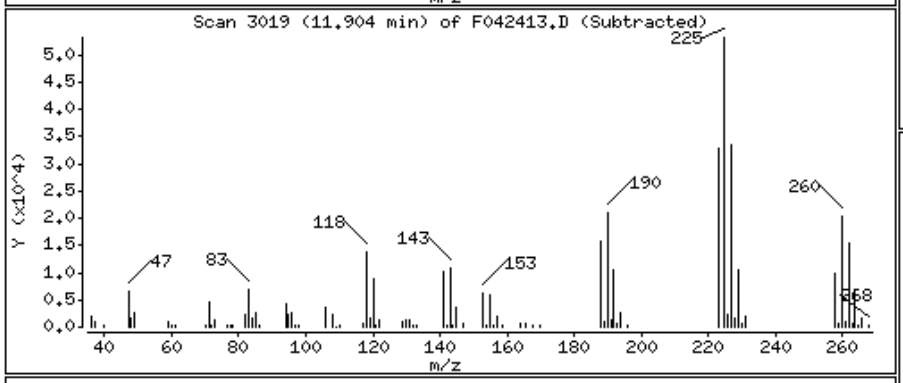
Sample Info: VSTD050;VSTD050;2;;ICV

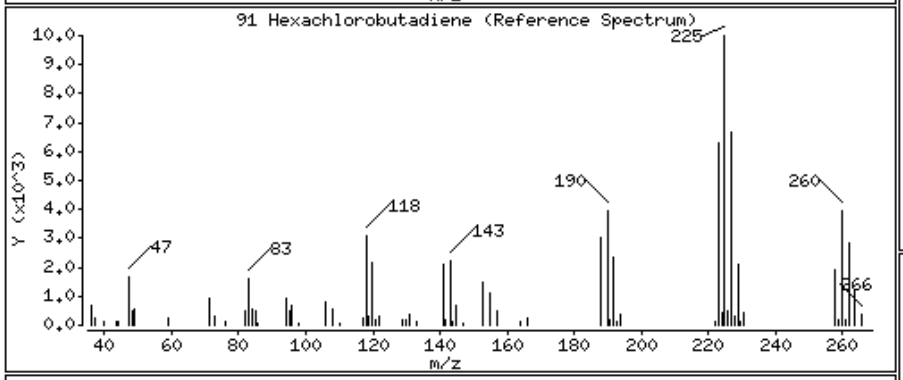
Purge Volume: 5.0 Operator: TS

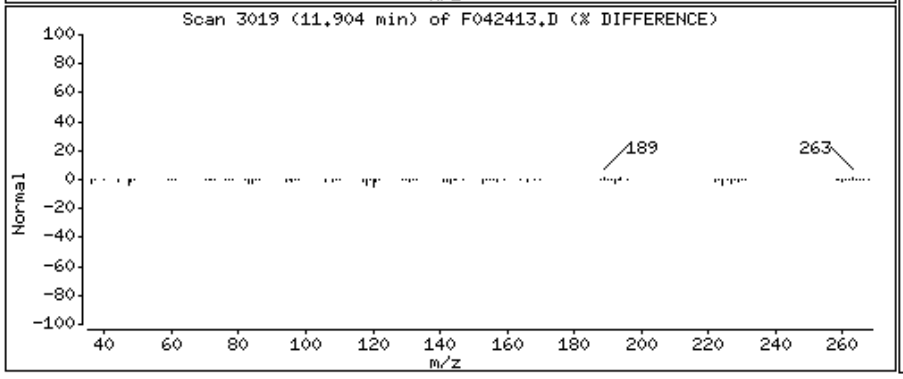
Column phase: DB624 Column diameter: 0.18

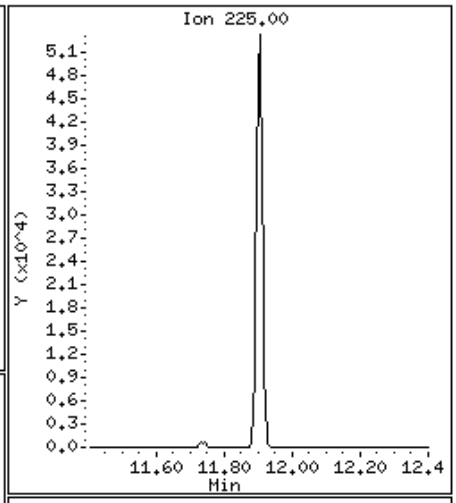
91 Hexachlorobutadiene Concentration: 51.29 ug/l

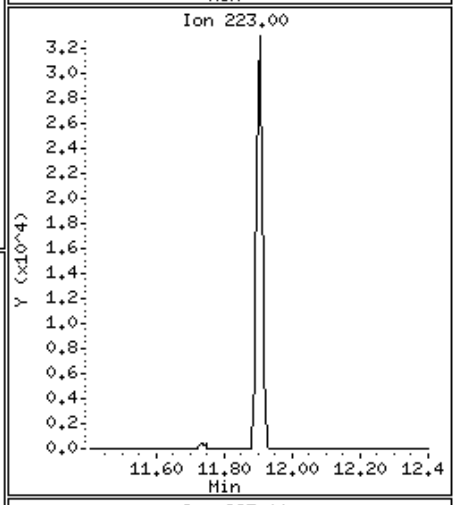


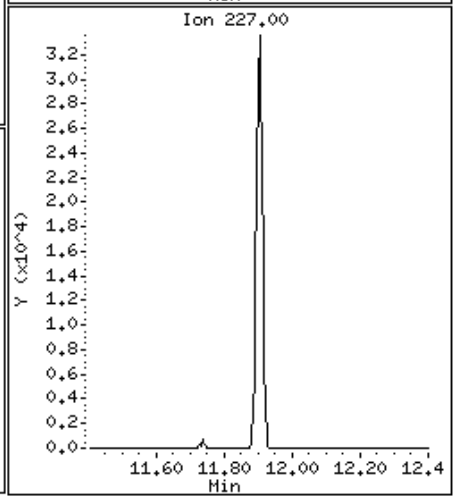












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 81

Date : 24-APR-2024 13:44

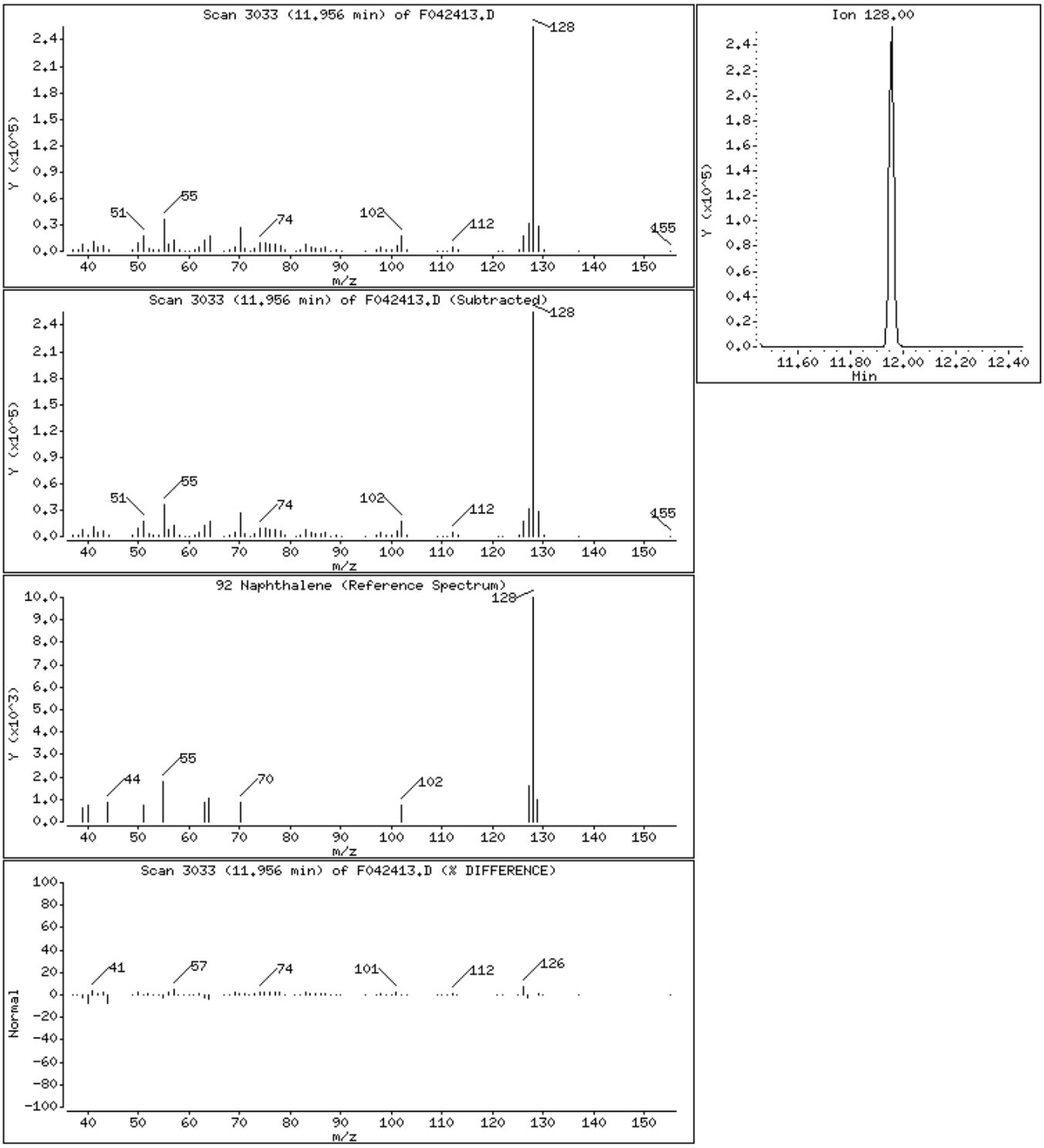
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

92 Naphthalene Concentration: 52.55 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 82

Date : 24-APR-2024 13:44

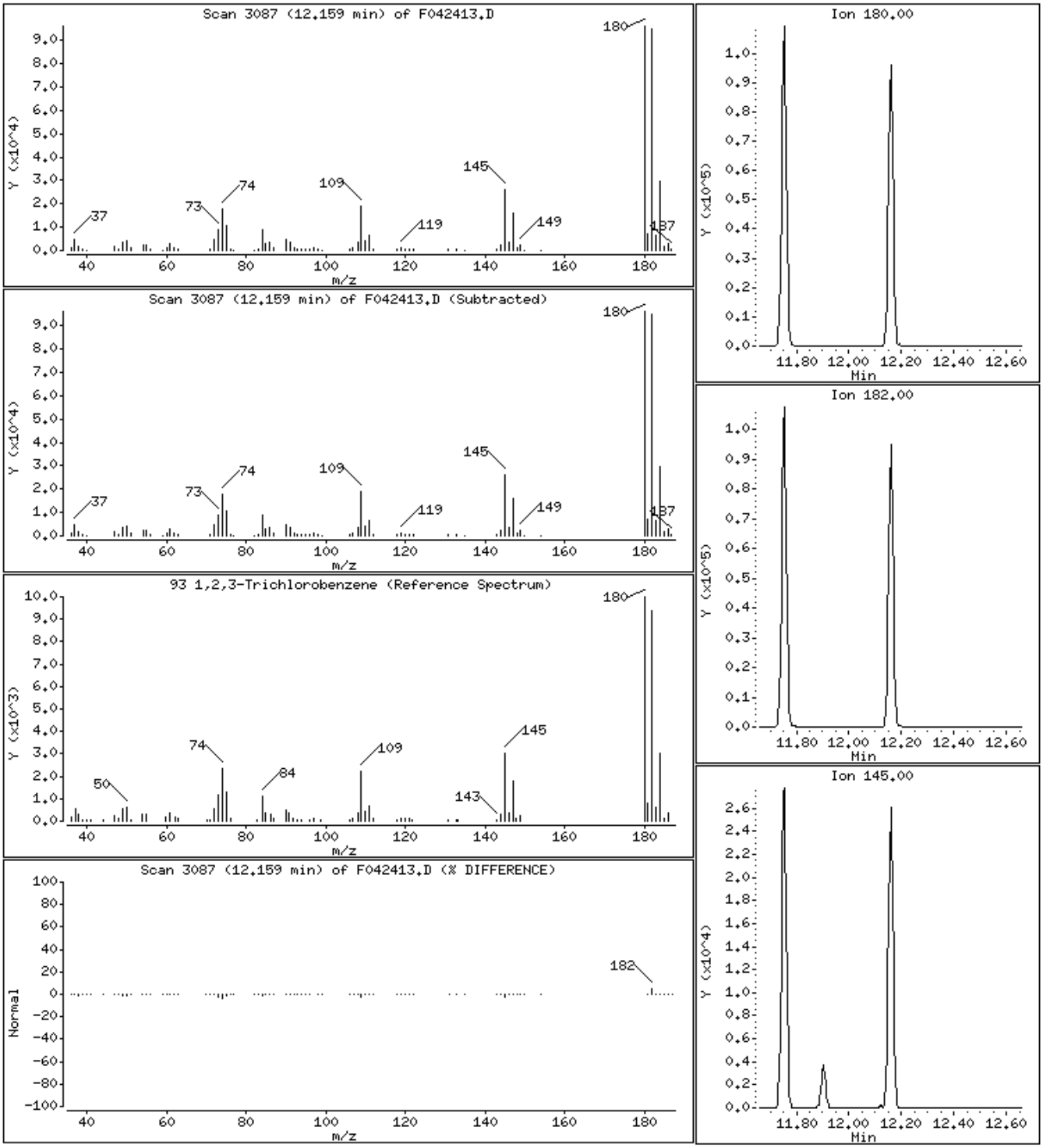
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

93 1,2,3-Trichlorobenzene Concentration: 55.05 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 83

Date : 24-APR-2024 13:44

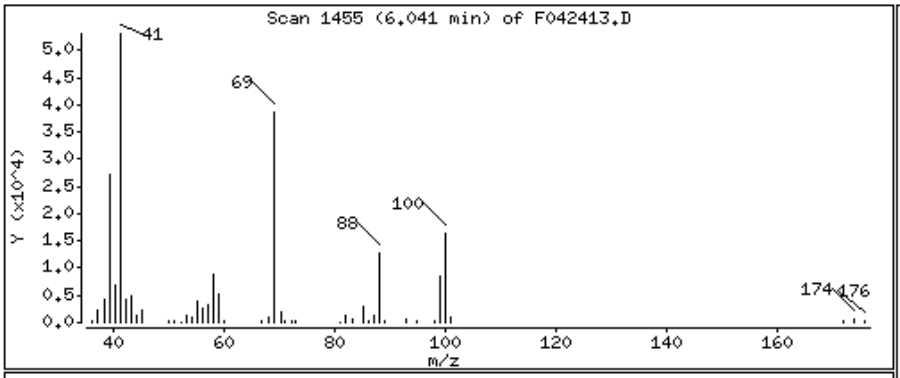
Client ID: VSTD050 Instrument: voa10.i

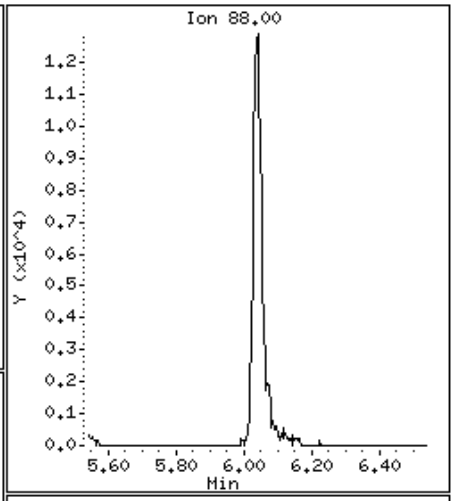
Sample Info: VSTD050;VSTD050;2;;ICV

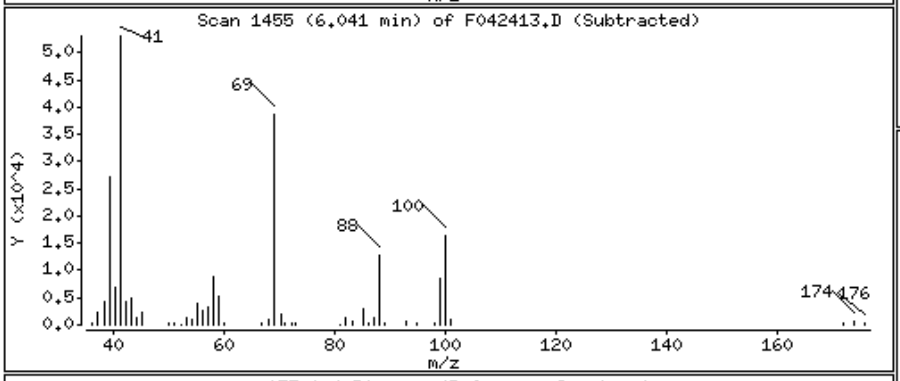
Purge Volume: 5.0 Operator: TS

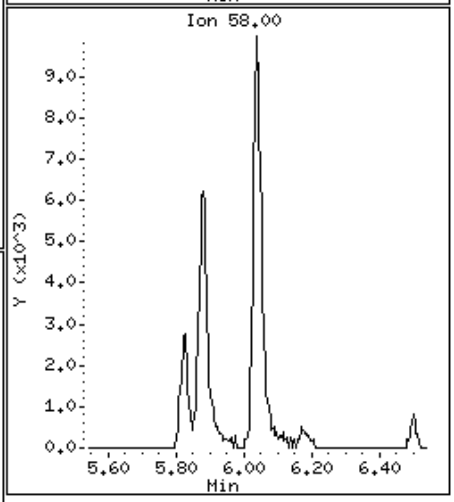
Column phase: DB624 Column diameter: 0.18

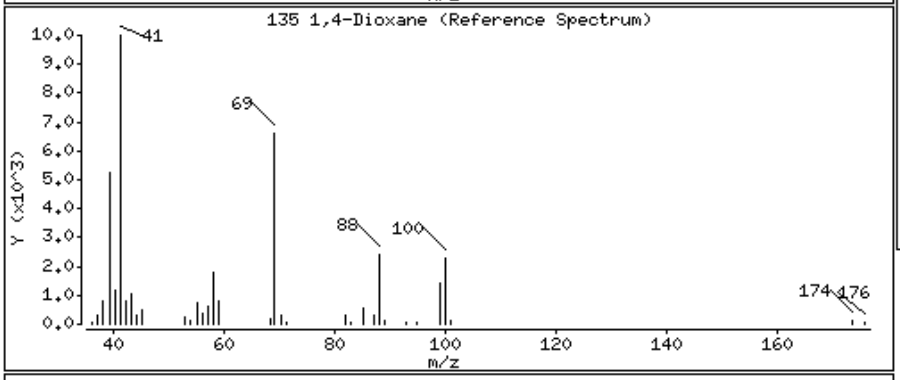
135 1,4-Dioxane Concentration: 995.75 ug/l

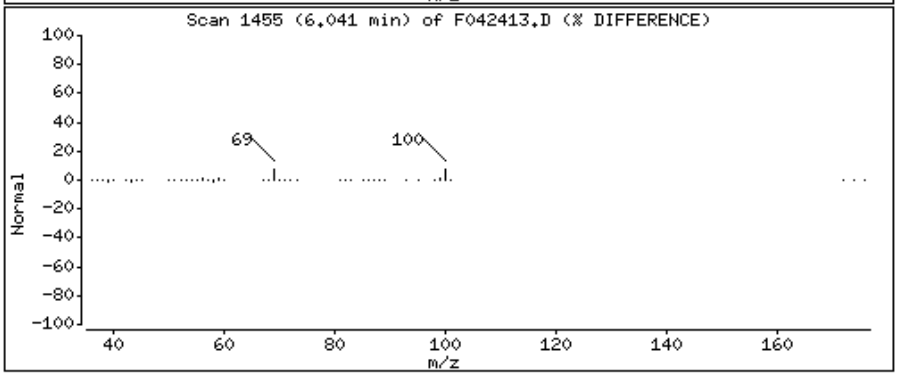












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

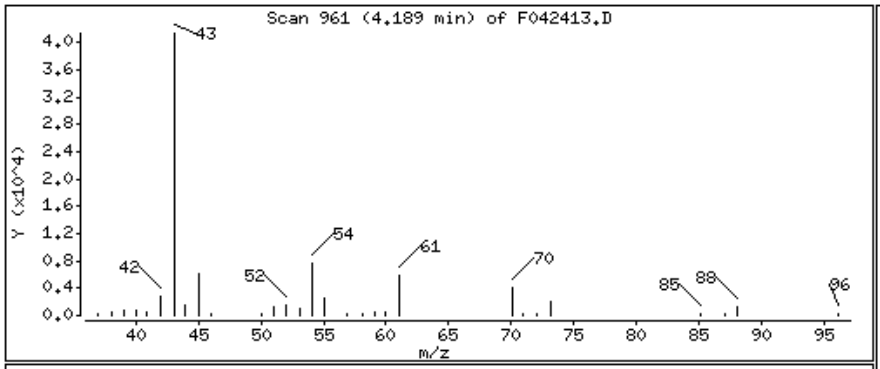
Operator: TS

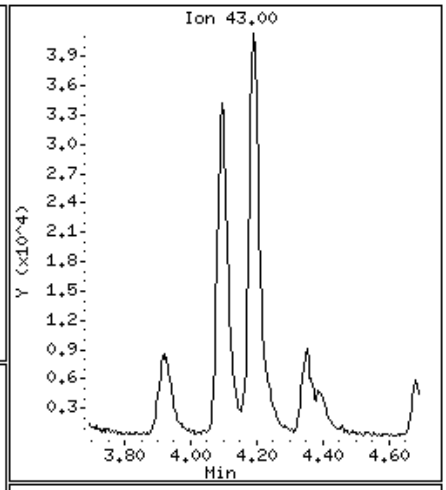
Column phase: DB624

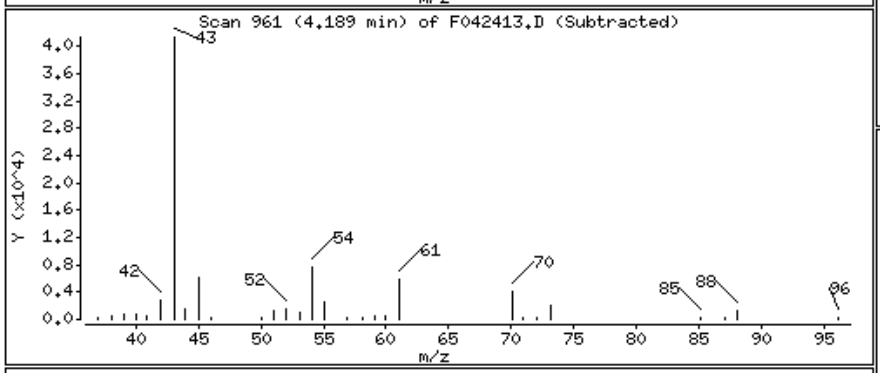
Column diameter: 0.18

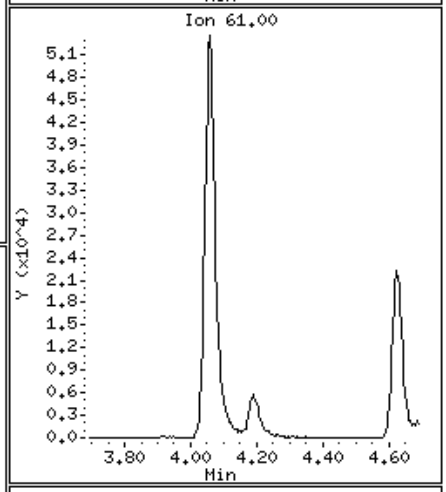
130 Ethyl Acetate

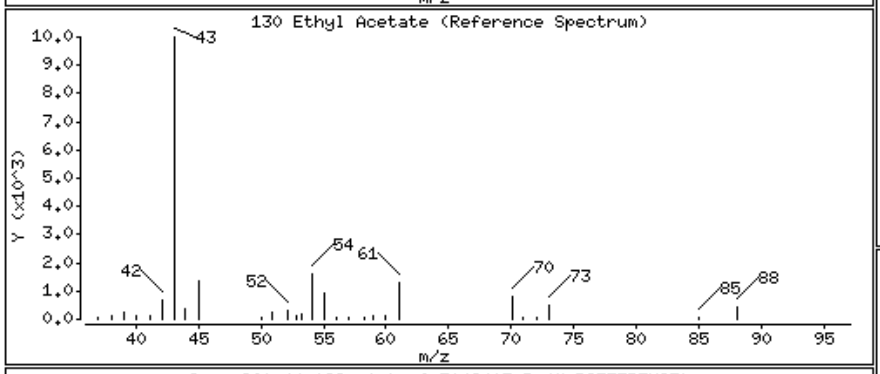
Concentration: 55.66 ug/l

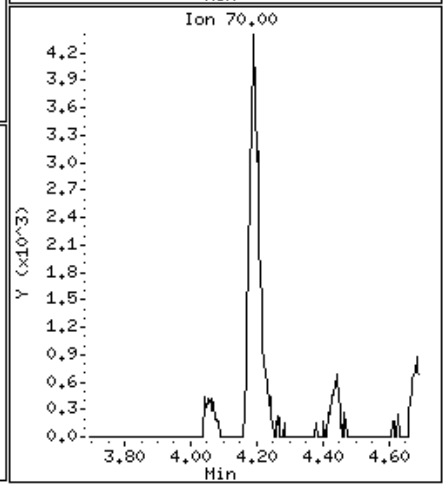


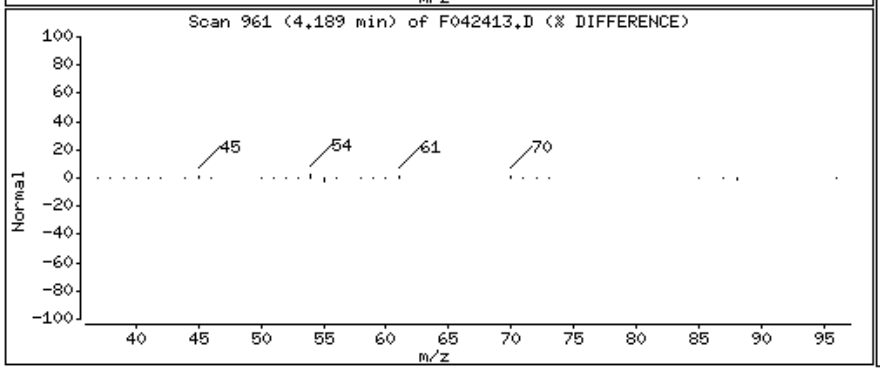












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 85

Date : 24-APR-2024 13:44

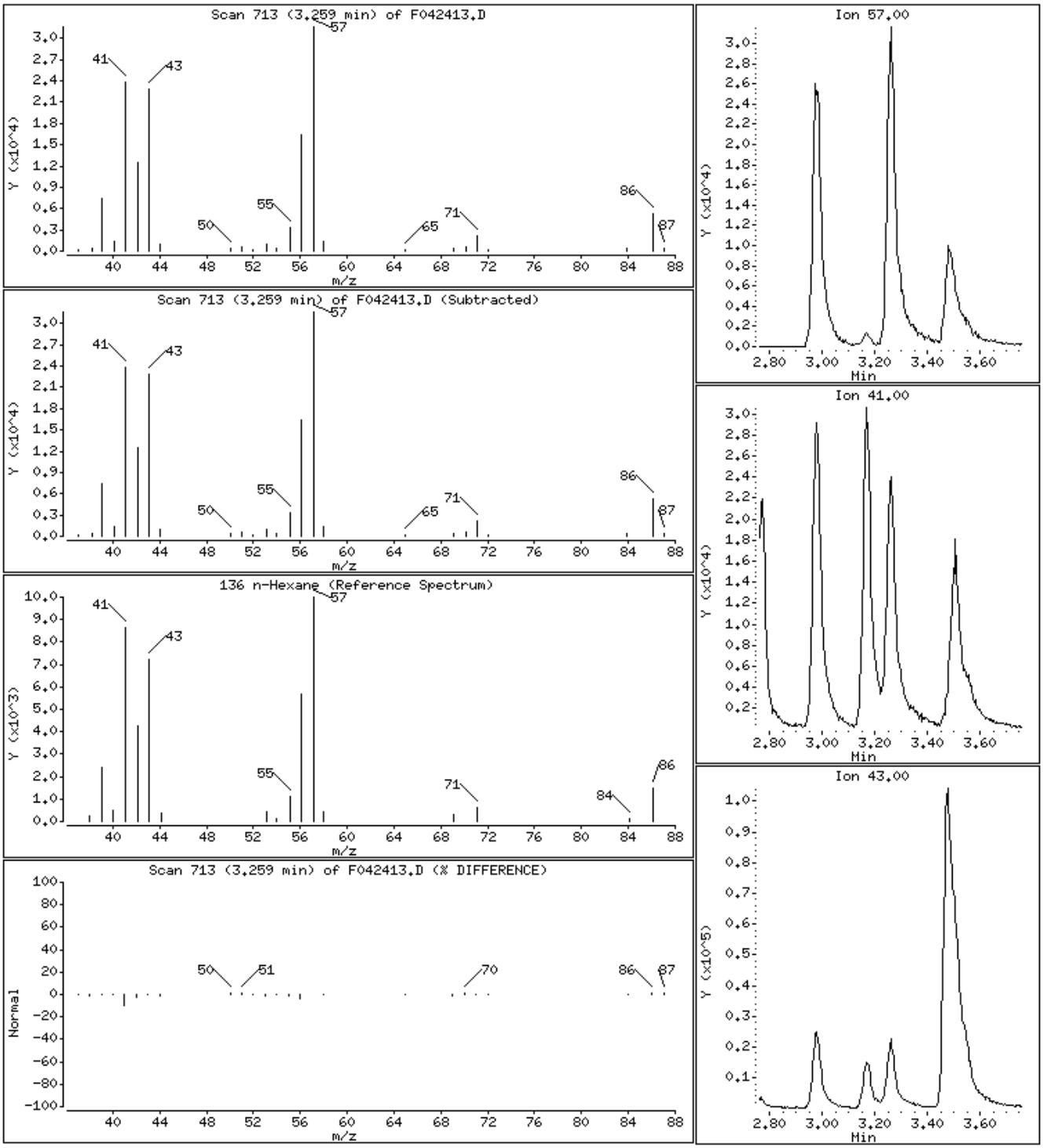
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

136 n-Hexane Concentration: 47.20 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 86

Date : 24-APR-2024 13:44

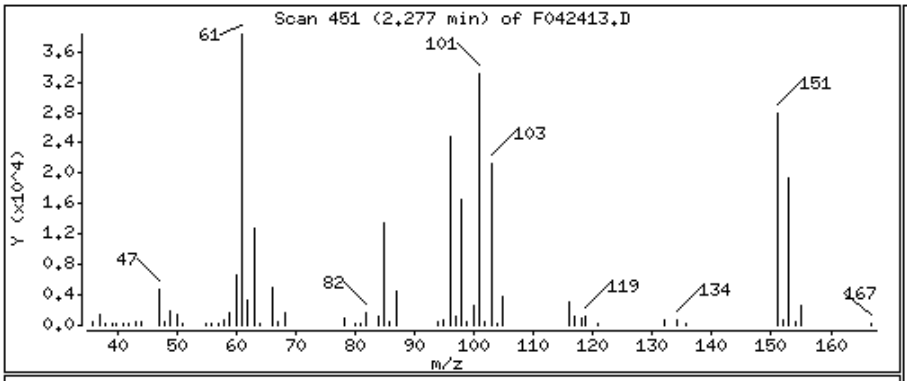
Client ID: VSTD050 Instrument: voa10.i

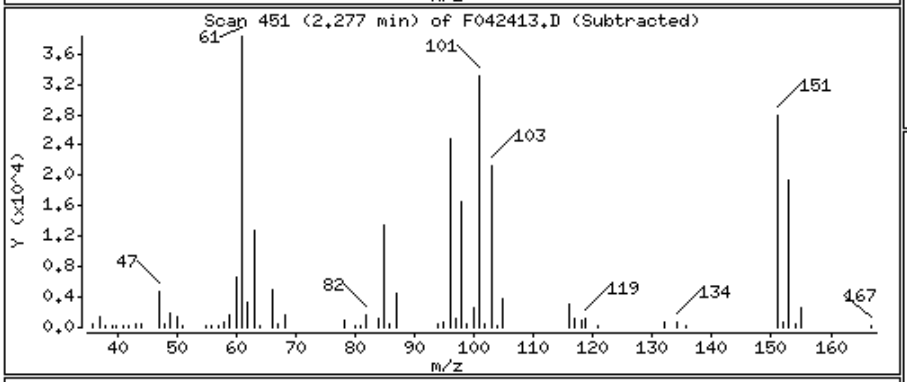
Sample Info: VSTD050;VSTD050;2;;ICV

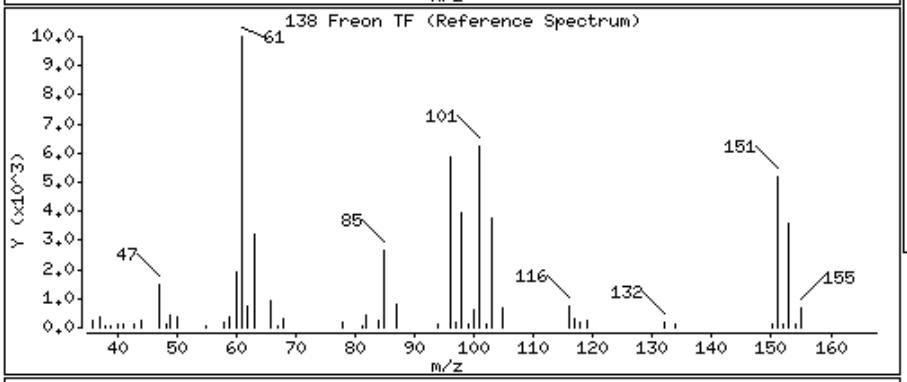
Purge Volume: 5.0 Operator: TS

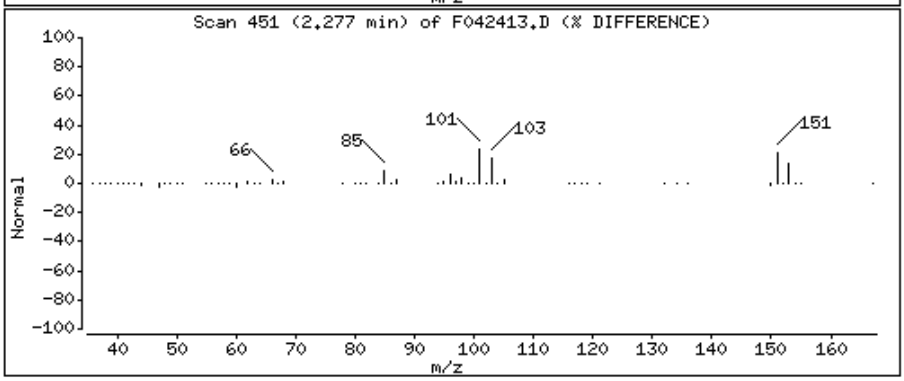
Column phase: DB624 Column diameter: 0.18

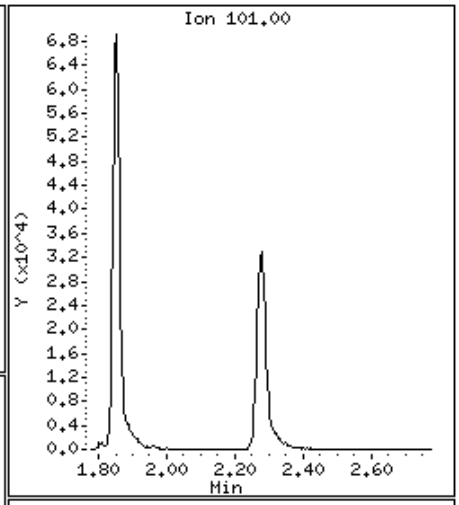
138 Freon TF Concentration: 47.93 ug/l

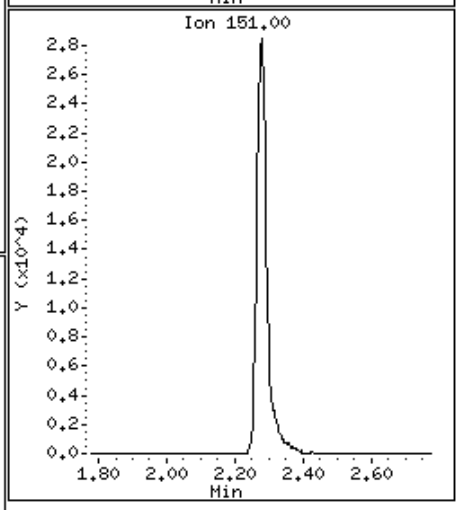












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 87

Date : 24-APR-2024 13:44

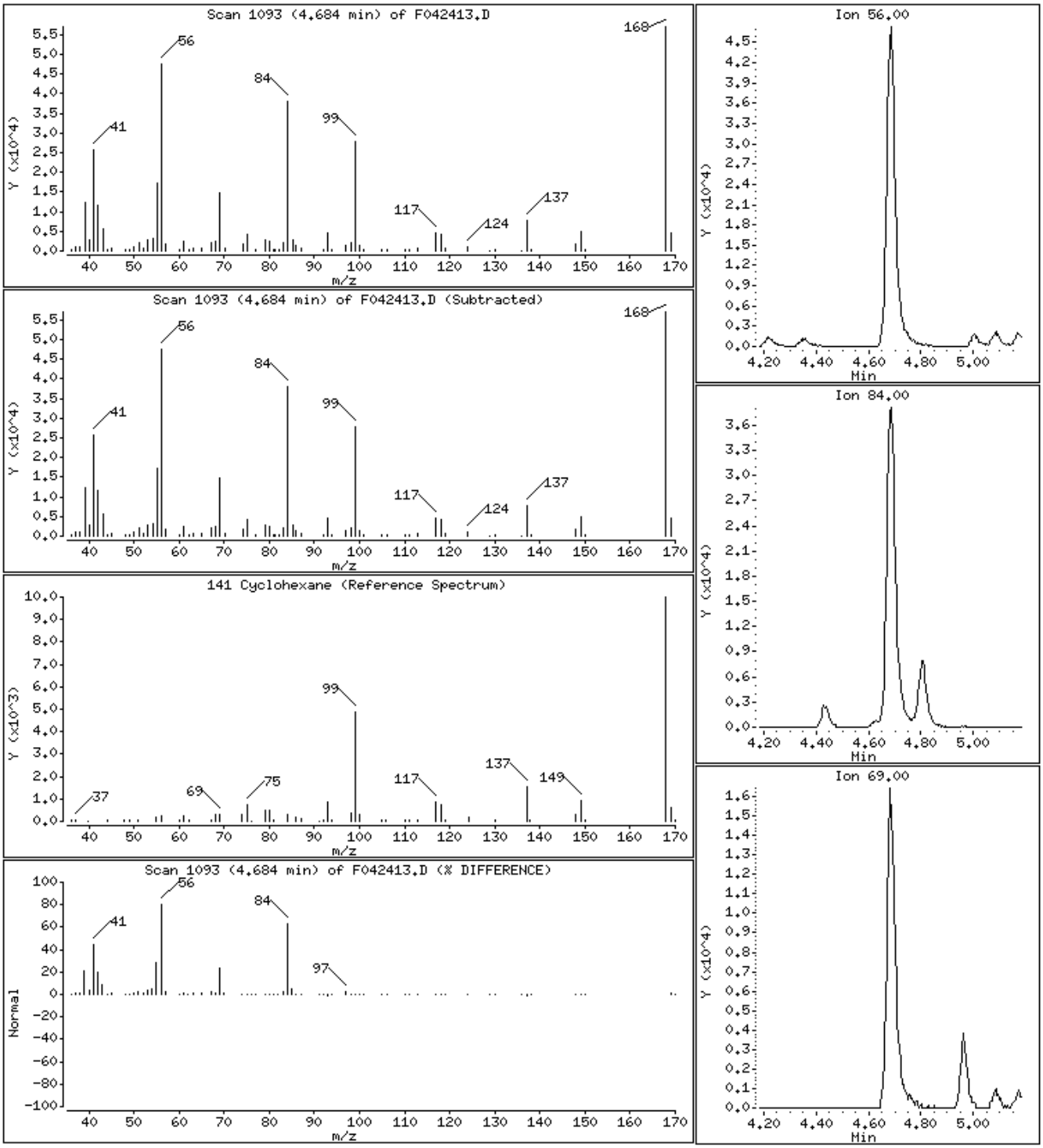
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

141 Cyclohexane Concentration: 50.59 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 88

Date : 24-APR-2024 13:44

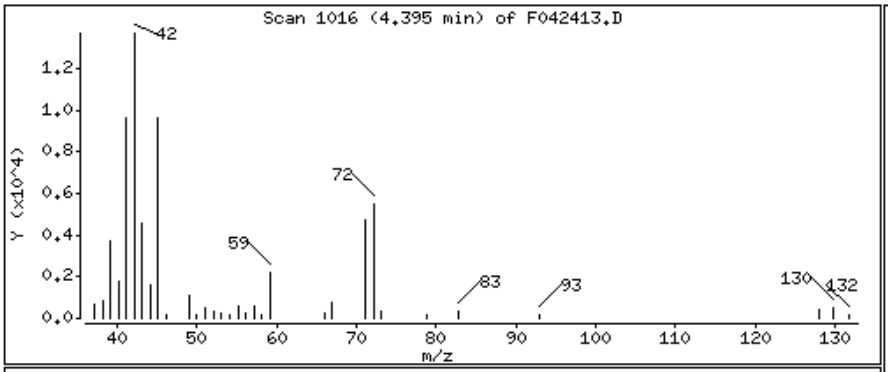
Client ID: VSTD050 Instrument: voa10.i

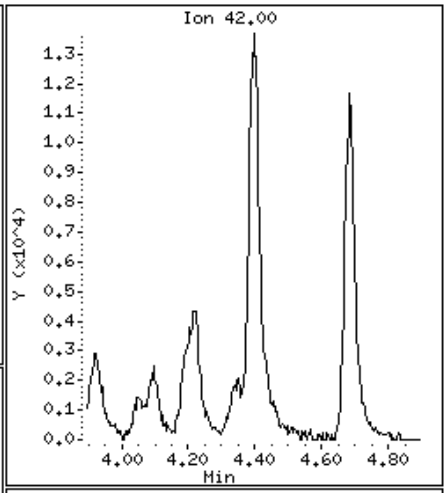
Sample Info: VSTD050;VSTD050;2;;ICV

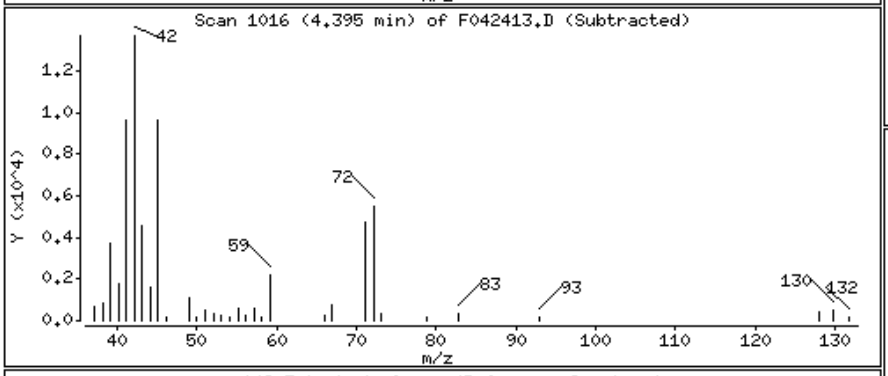
Purge Volume: 5.0 Operator: TS

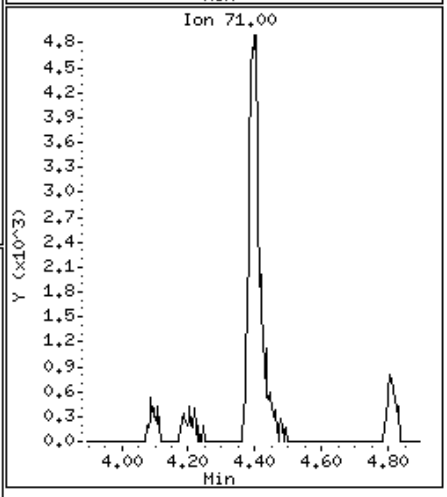
Column phase: DB624 Column diameter: 0.18

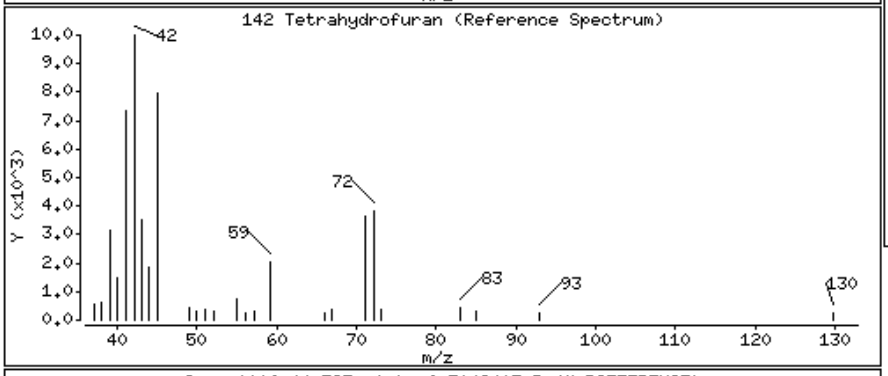
142 Tetrahydrofuran Concentration: 111.31 ug/l

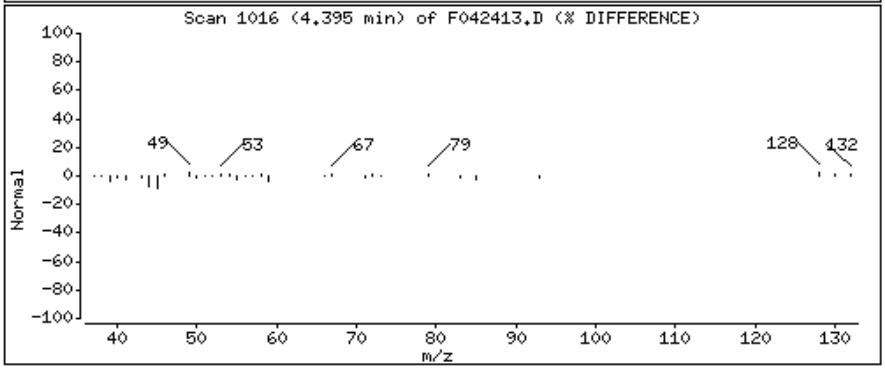












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 89

Date : 24-APR-2024 13:44

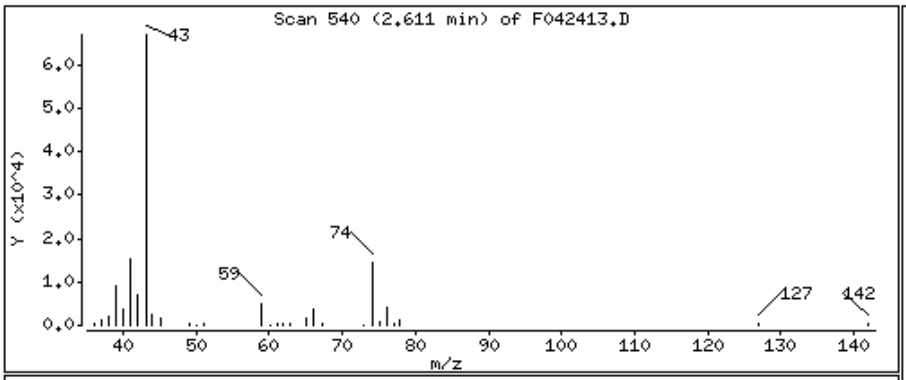
Client ID: VSTD050 Instrument: voa10.i

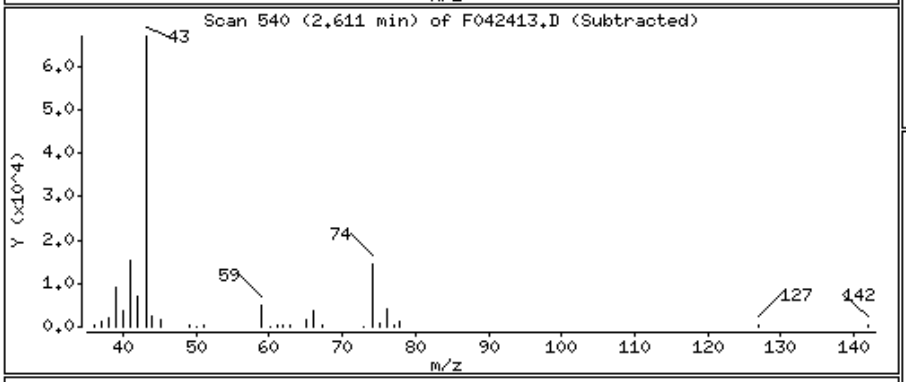
Sample Info: VSTD050;VSTD050;2;;ICV

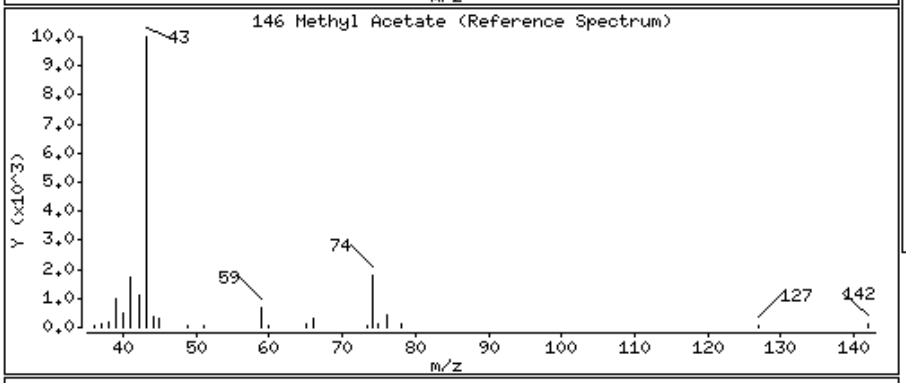
Purge Volume: 5.0 Operator: TS

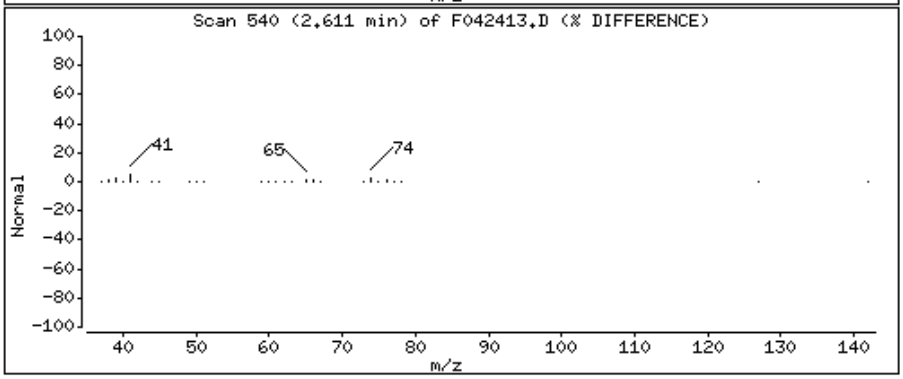
Column phase: DB624 Column diameter: 0.18

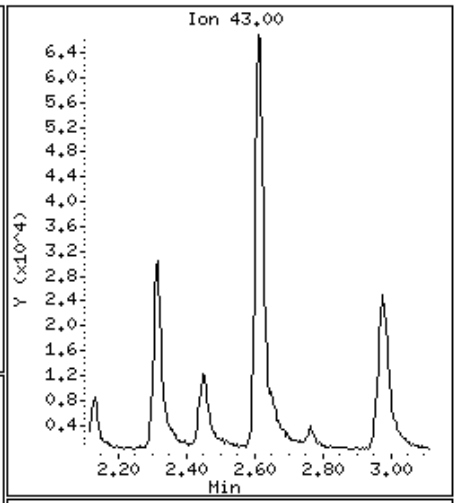
146 Methyl Acetate Concentration: 53.94 ug/l

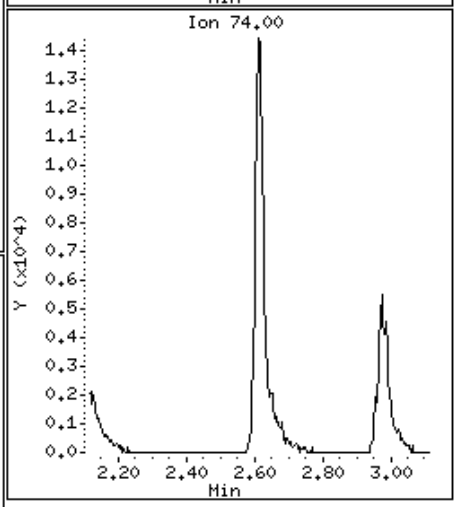












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 90

Date : 24-APR-2024 13:44

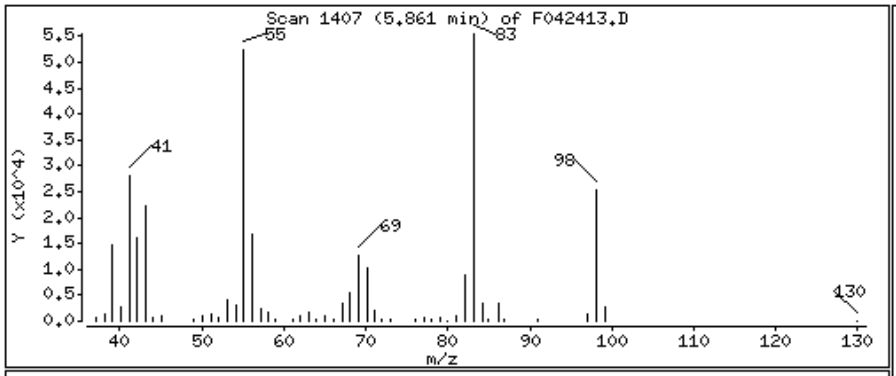
Client ID: VSTD050 Instrument: voa10.i

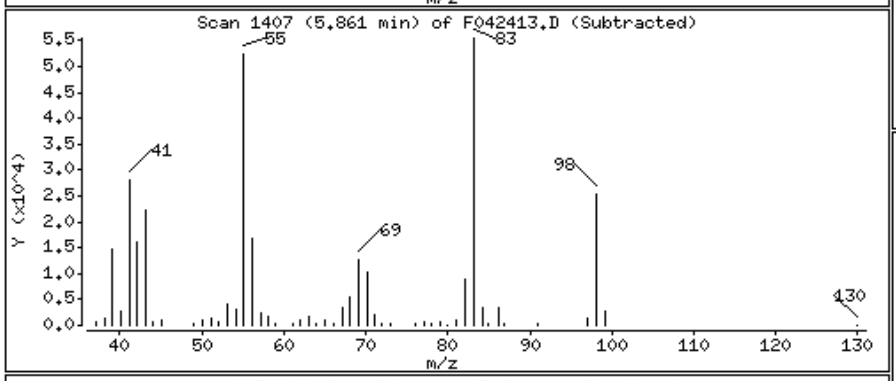
Sample Info: VSTD050;VSTD050;2;;ICV

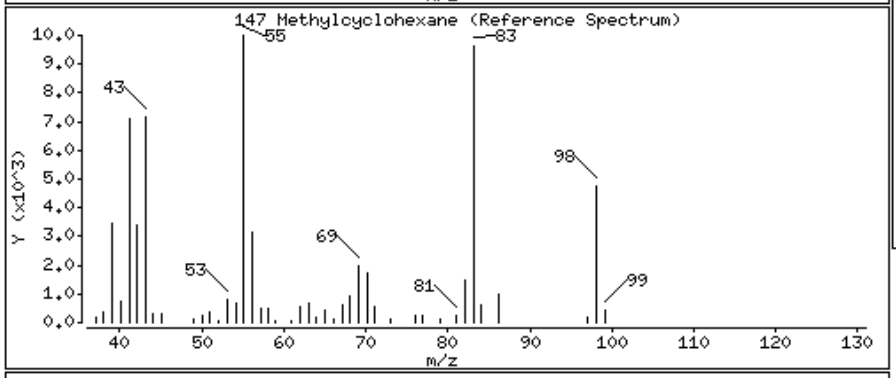
Purge Volume: 5.0 Operator: TS

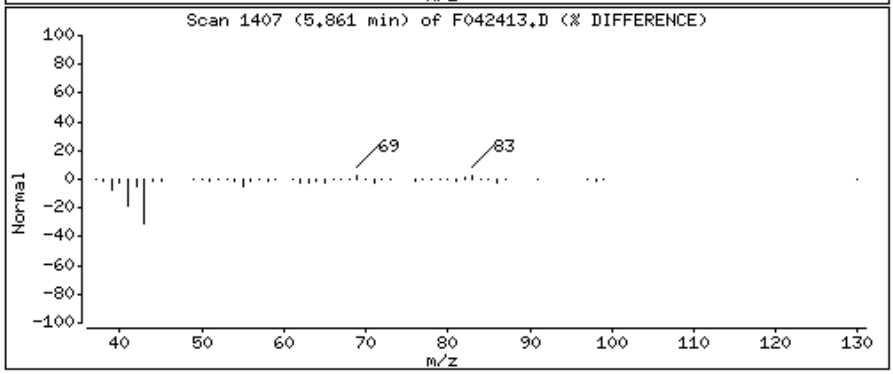
Column phase: DB624 Column diameter: 0.18

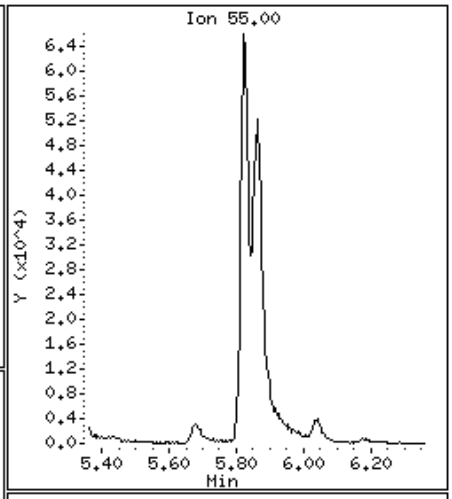
147 Methylcyclohexane Concentration: 51.77 ug/l

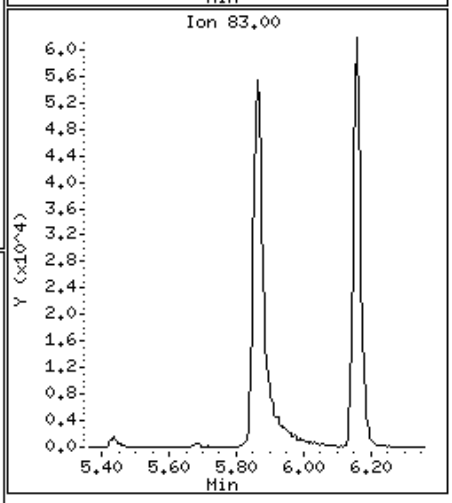












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 91

Date : 24-APR-2024 13:44

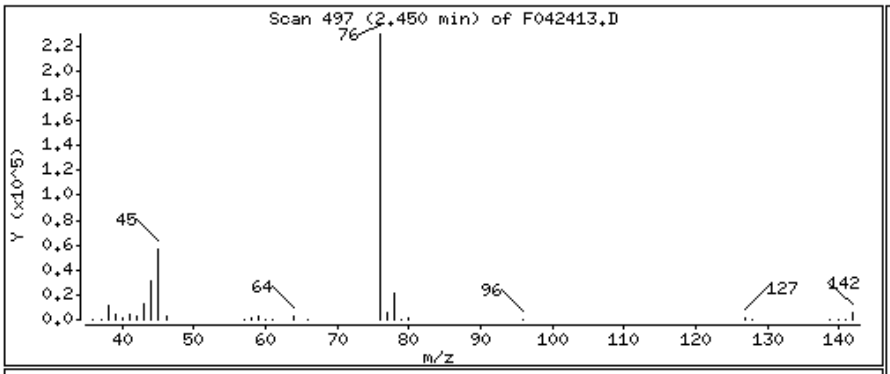
Client ID: VSTD050 Instrument: voa10.i

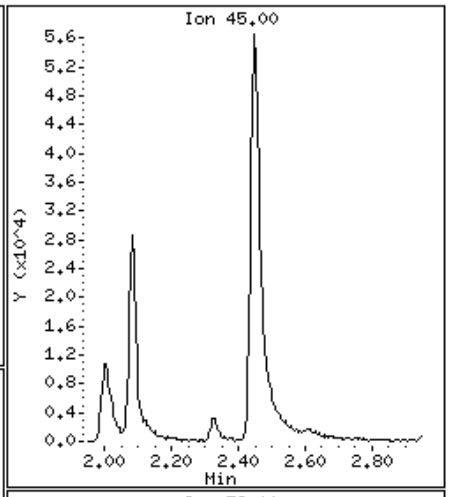
Sample Info: VSTD050;VSTD050;2;;ICV

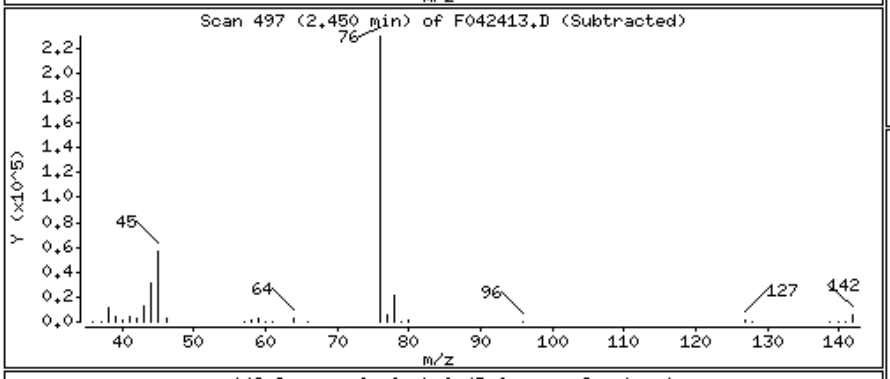
Purge Volume: 5.0 Operator: TS

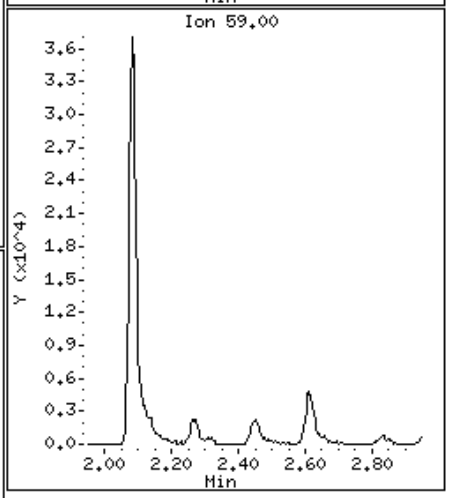
Column phase: DB624 Column diameter: 0.18

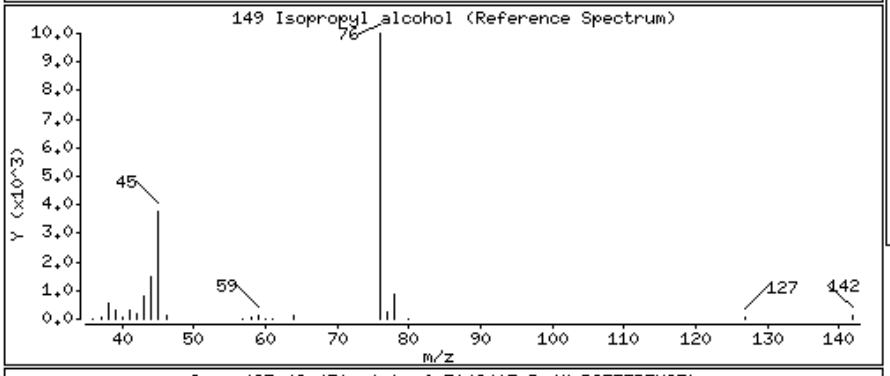
149 Isopropyl alcohol Concentration: 1166.34 ug/l

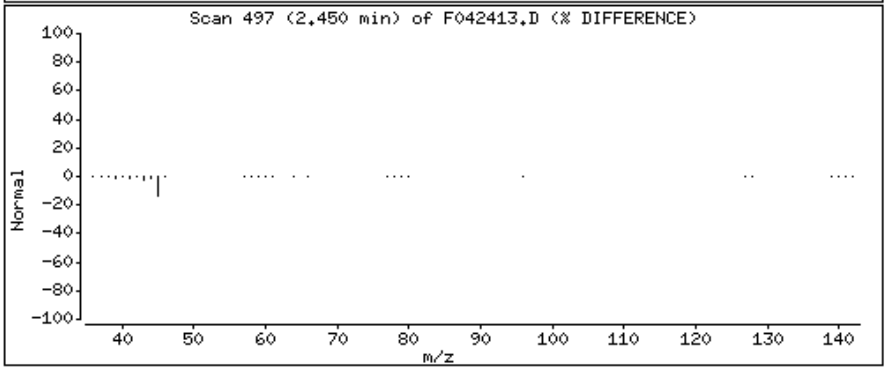












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

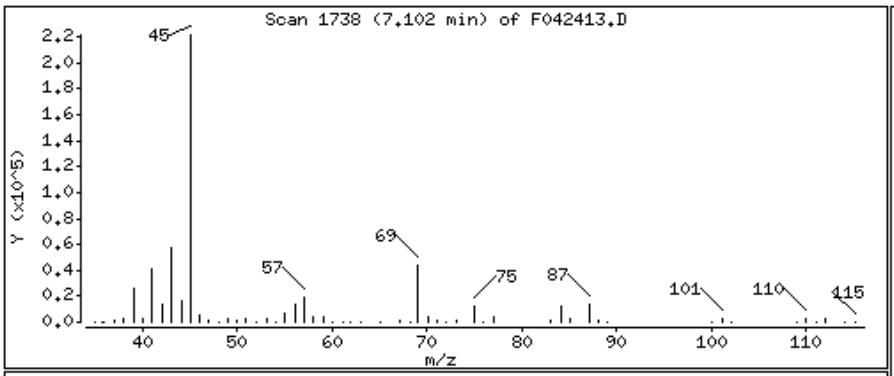
Operator: TS

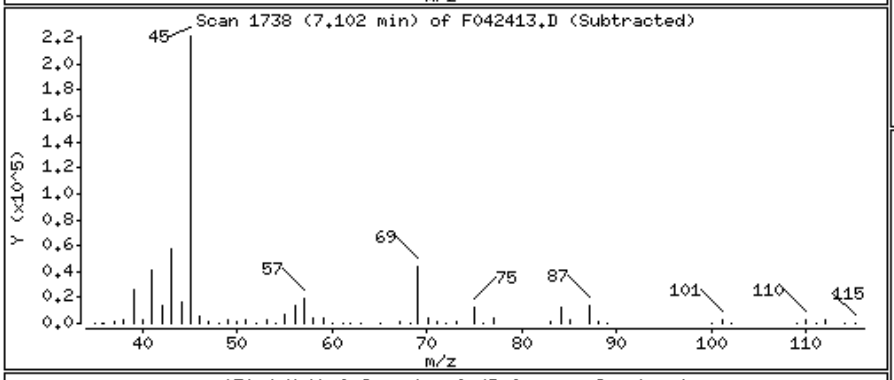
Column phase: DB624

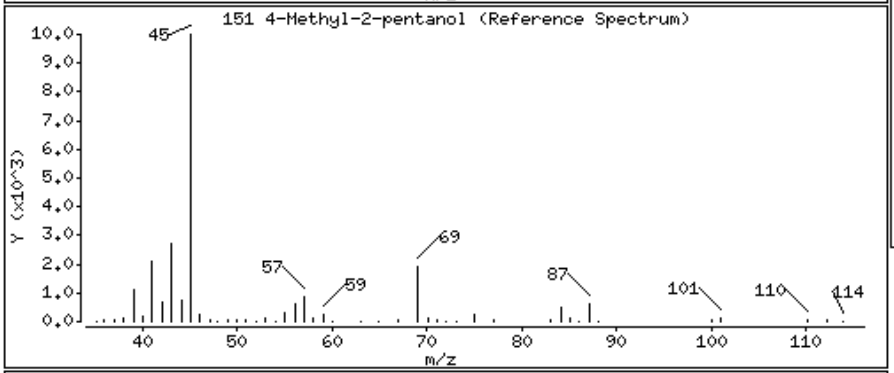
Column diameter: 0.18

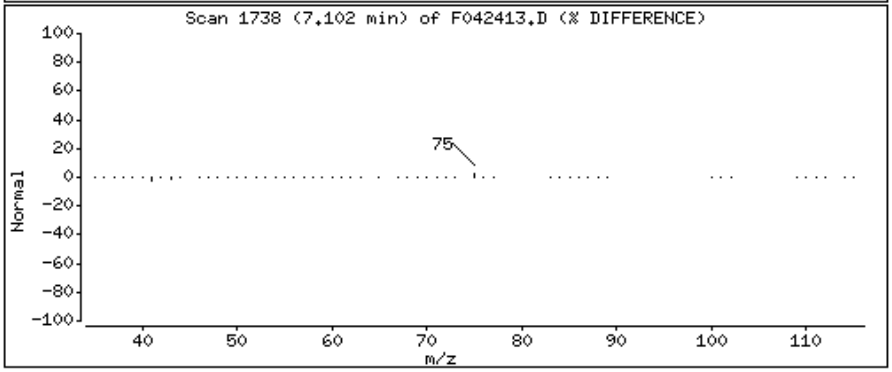
151 4-Methyl-2-pentanol

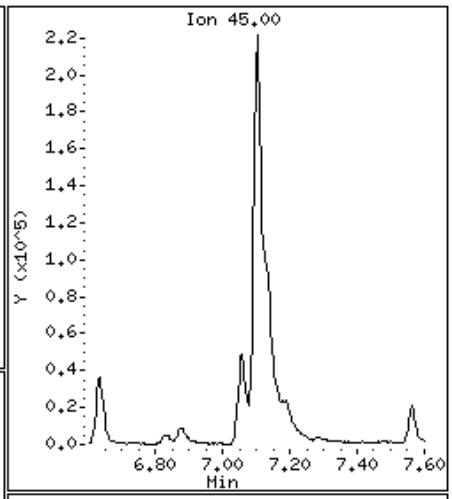
Concentration: 925.37 ug/l

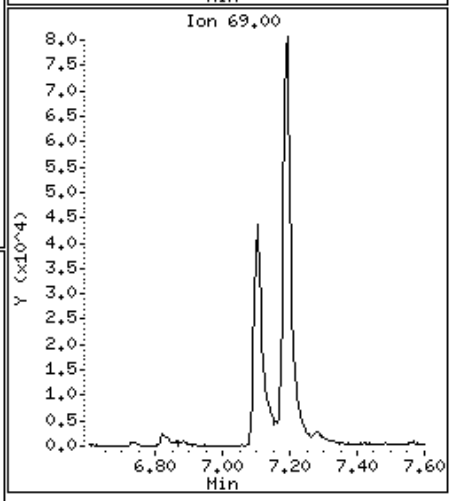












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 93

Date : 24-APR-2024 13:44

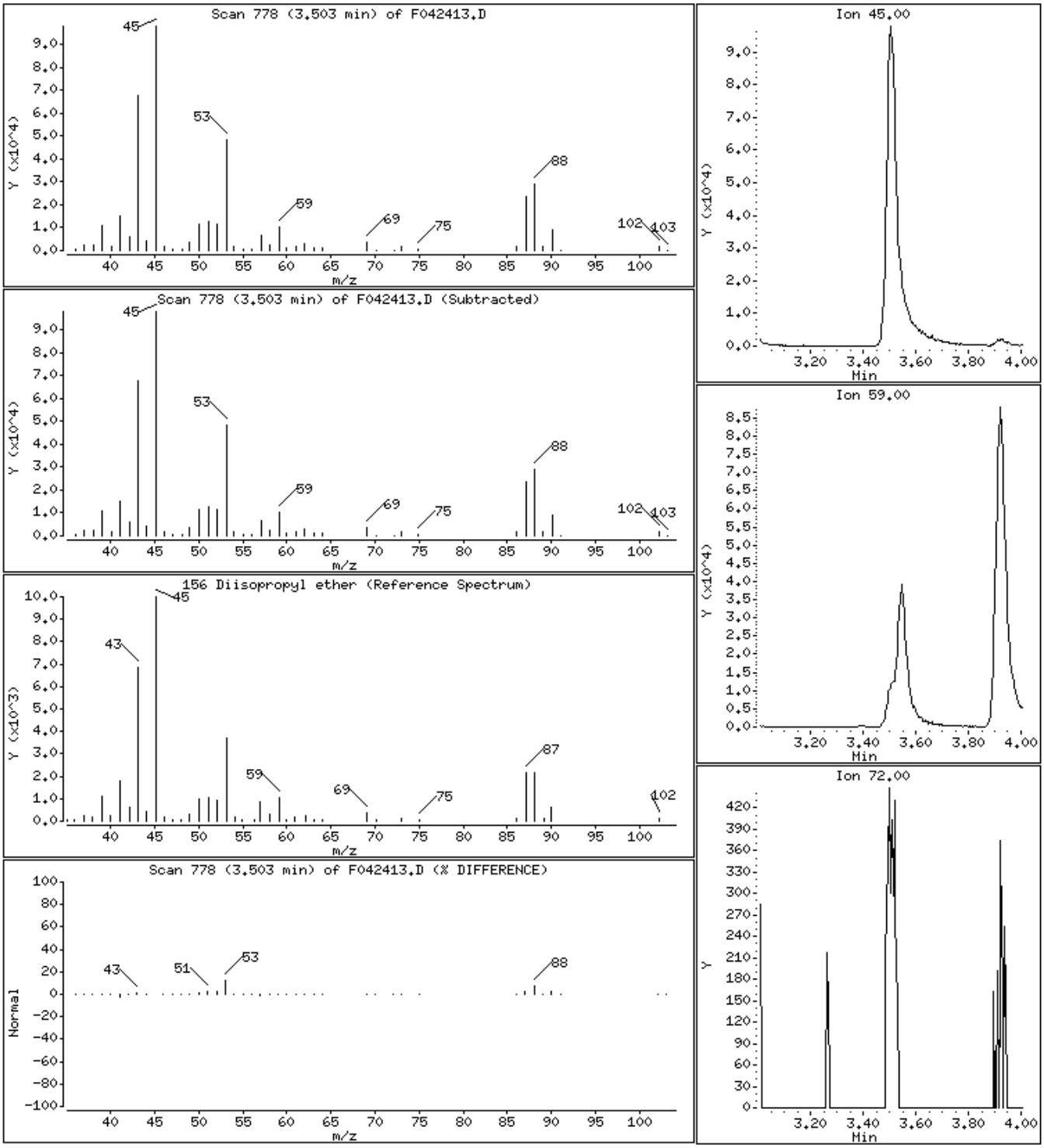
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

156 Diisopropyl ether Concentration: 54.64 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

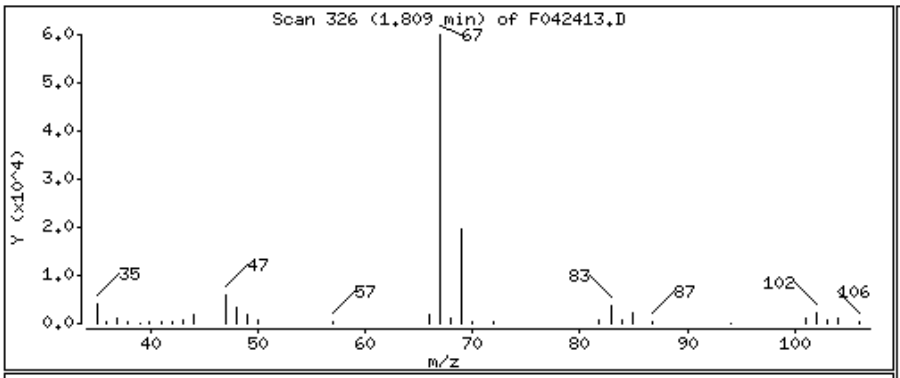
Operator: TS

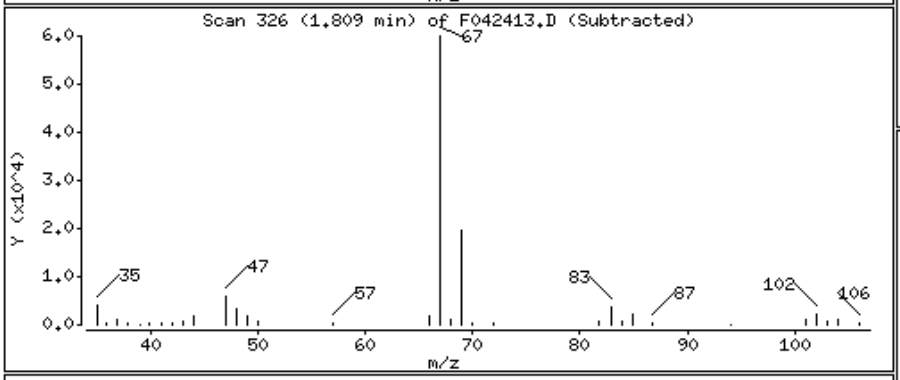
Column phase: DB624

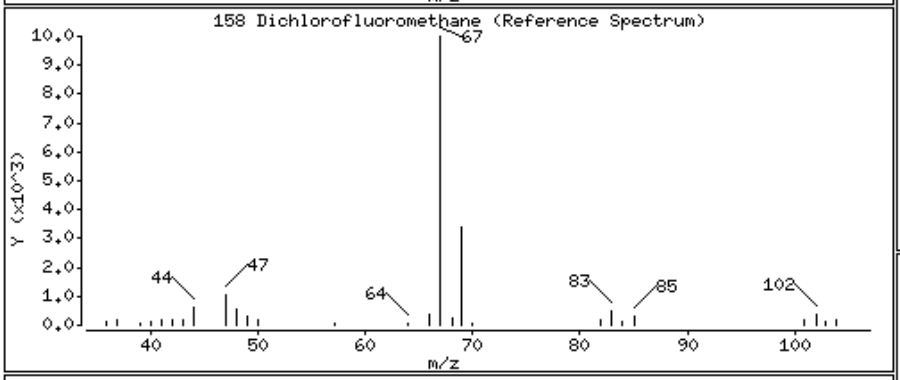
Column diameter: 0.18

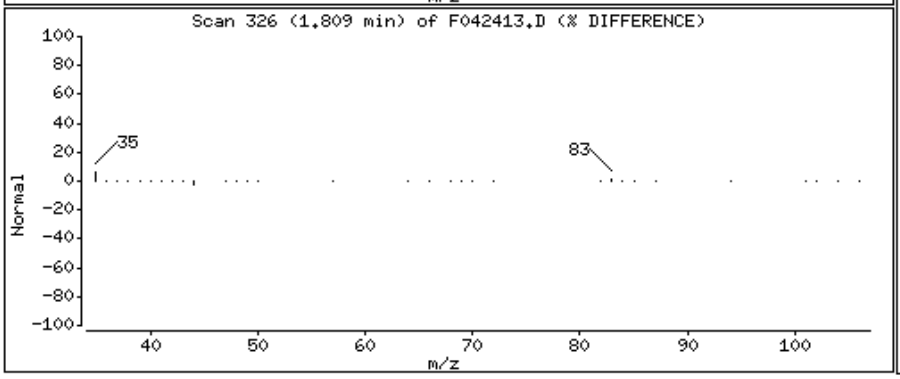
158 Dichlorofluoromethane

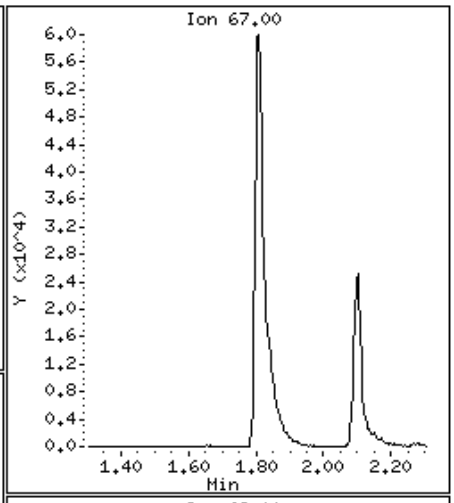
Concentration: 54.24 ug/l

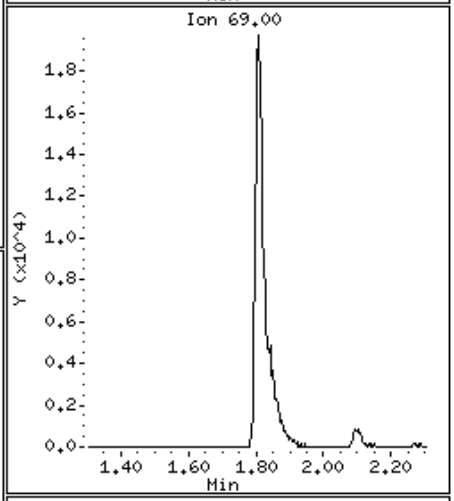


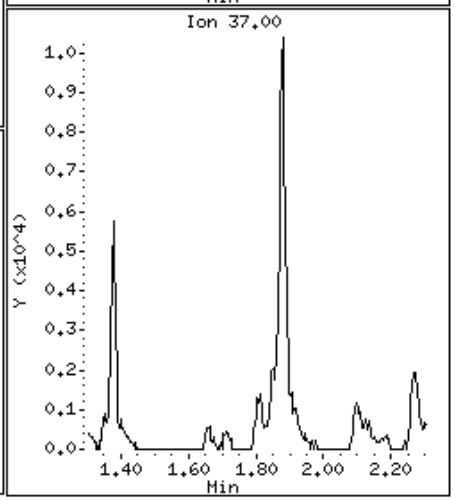












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

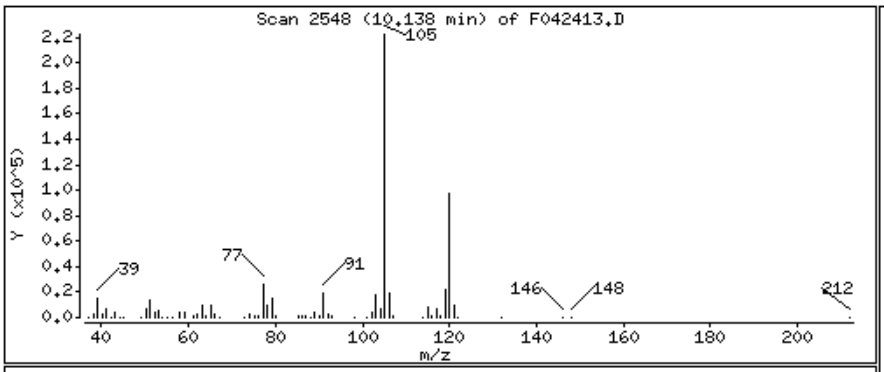
Operator: TS

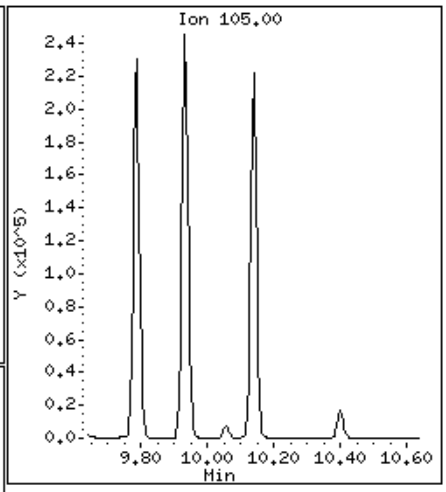
Column phase: DB624

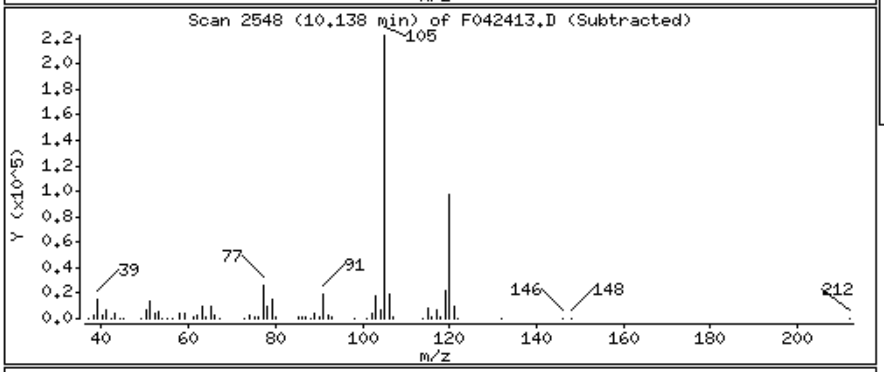
Column diameter: 0.18

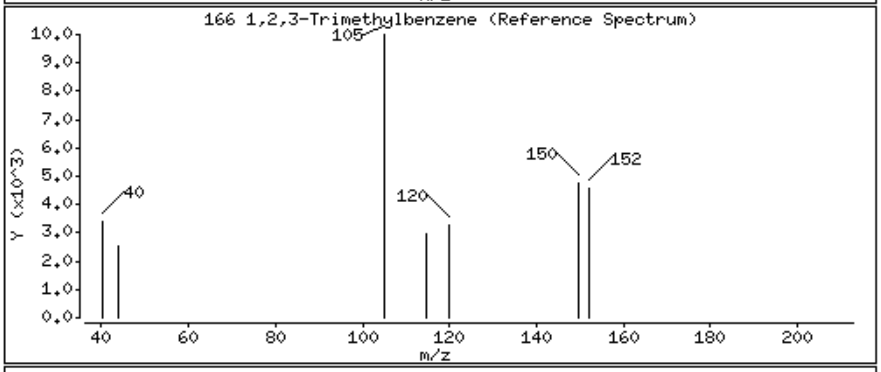
166 1,2,3-Trimethylbenzene

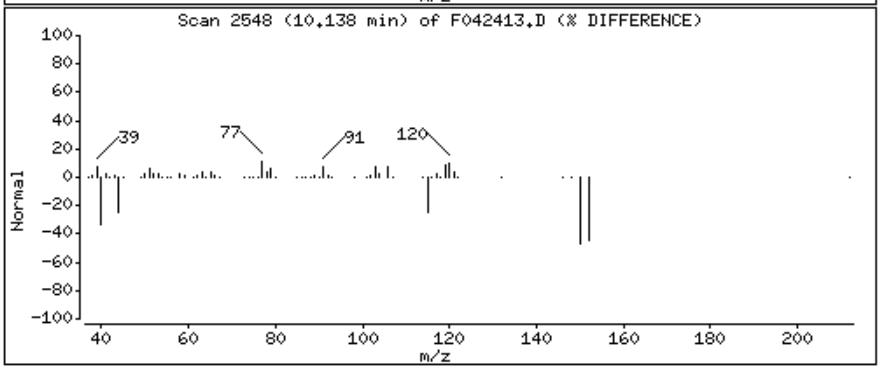
Concentration: 54.31 ug/l











Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 96

Date : 24-APR-2024 13:44

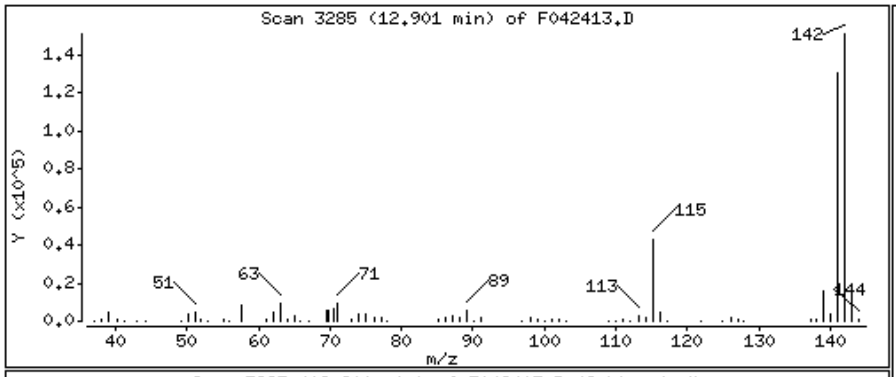
Client ID: VSTD050 Instrument: voa10.i

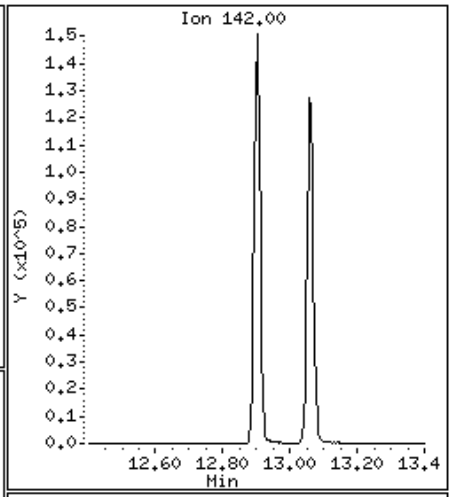
Sample Info: VSTD050;VSTD050;2;;ICV

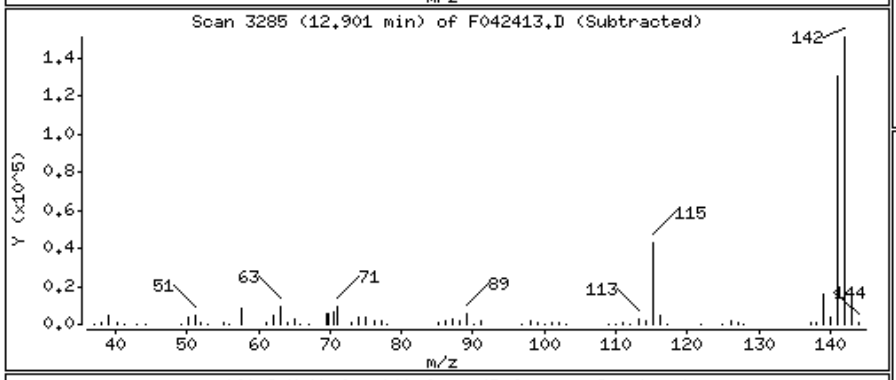
Purge Volume: 5.0 Operator: TS

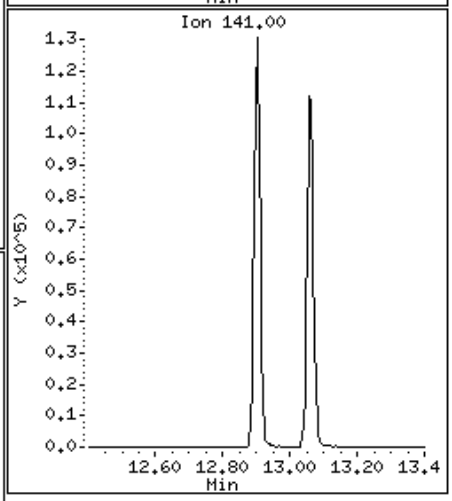
Column phase: DB624 Column diameter: 0.18

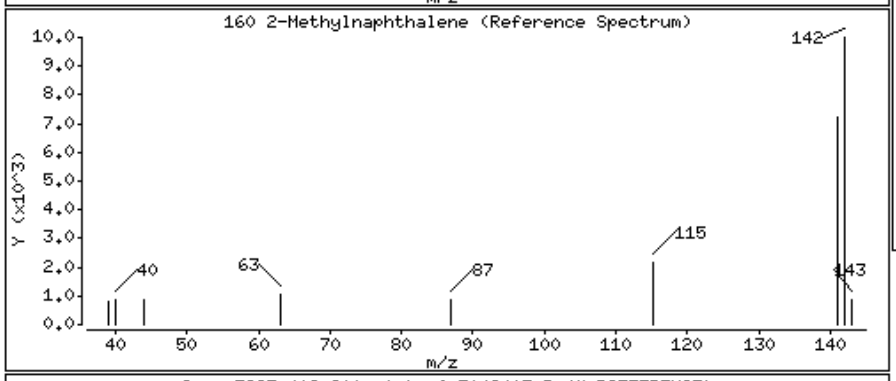
160 2-Methylnaphthalene Concentration: 50.55 ug/l

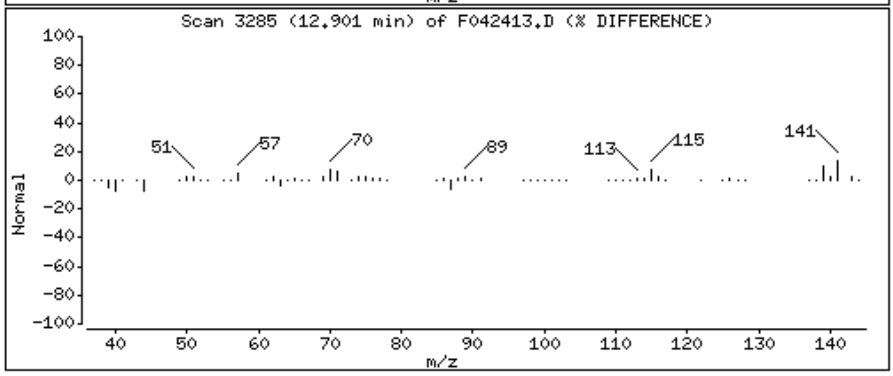












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 97

Date : 24-APR-2024 13:44

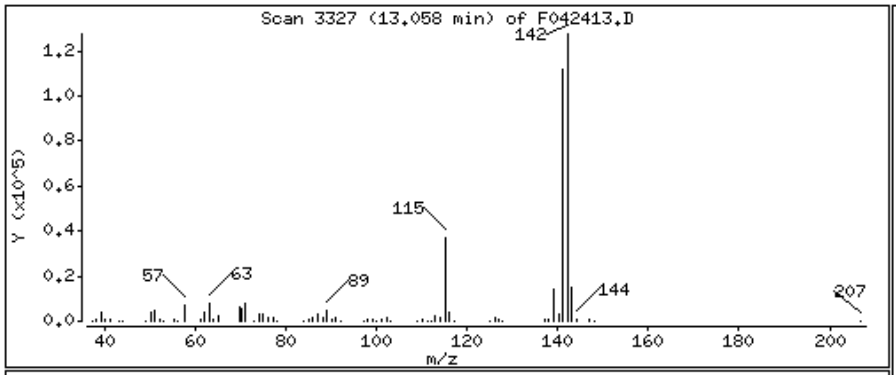
Client ID: VSTD050 Instrument: voa10.i

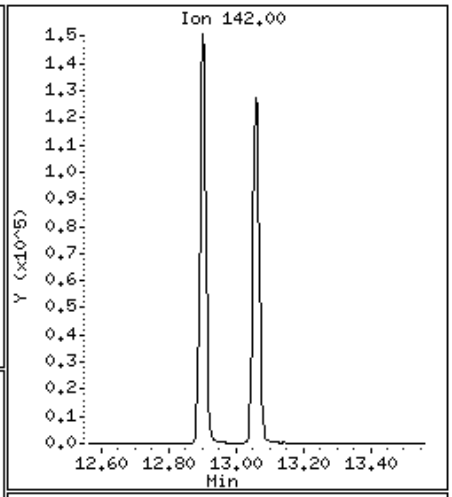
Sample Info: VSTD050;VSTD050;2;;ICV

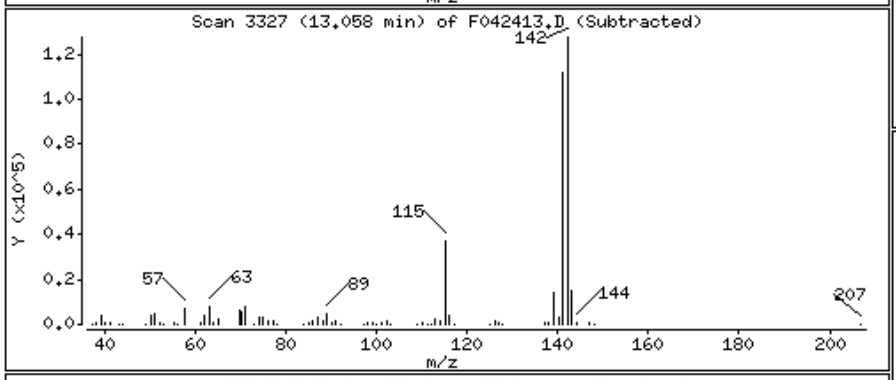
Purge Volume: 5.0 Operator: TS

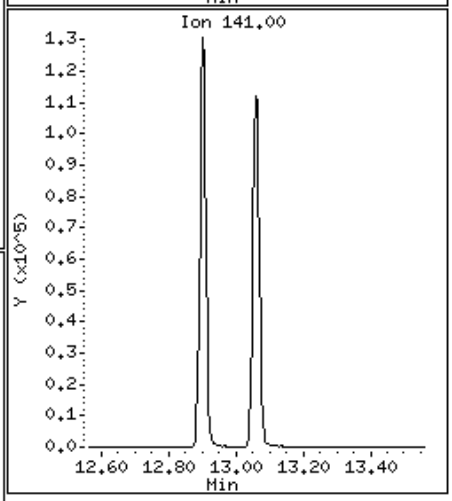
Column phase: DB624 Column diameter: 0.18

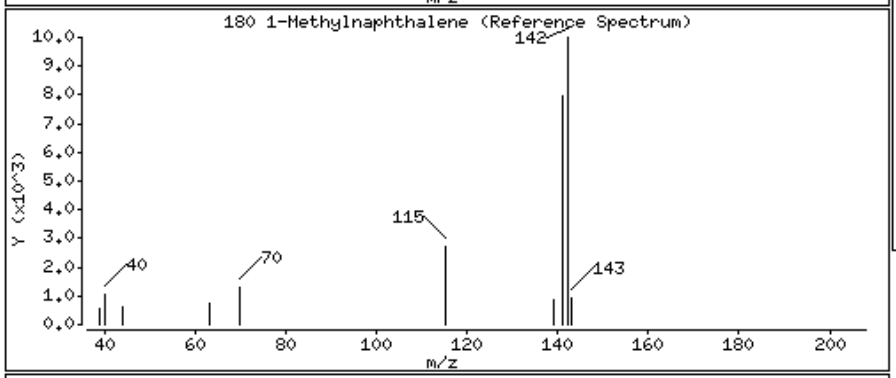
180 1-Methylnaphthalene Concentration: 52.57 ug/l

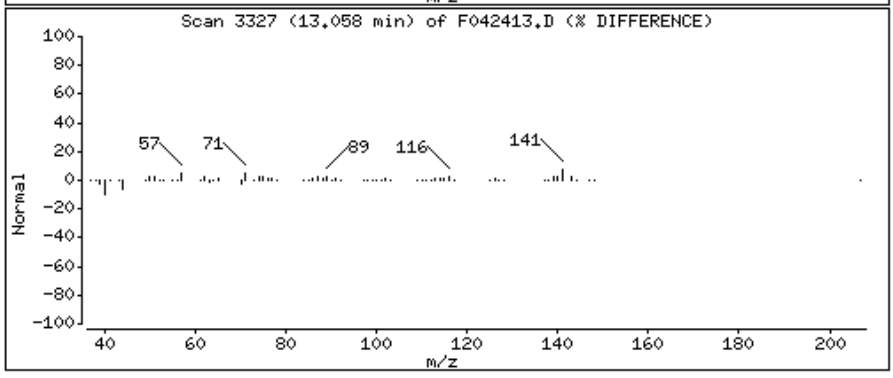












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 98

Date : 24-APR-2024 13:44

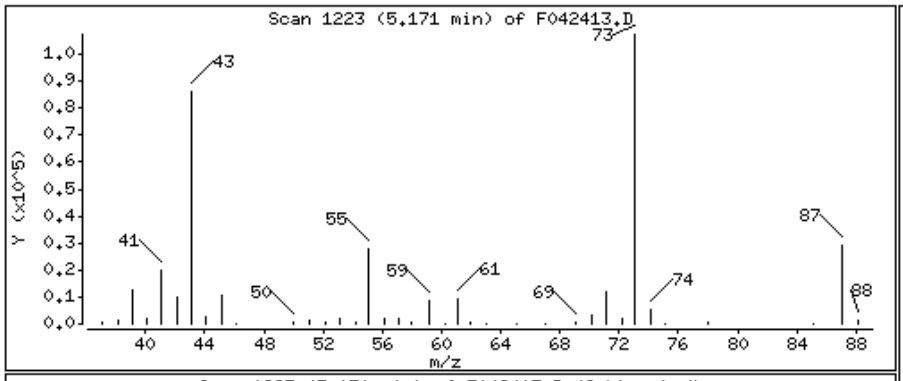
Client ID: VSTD050 Instrument: voa10.i

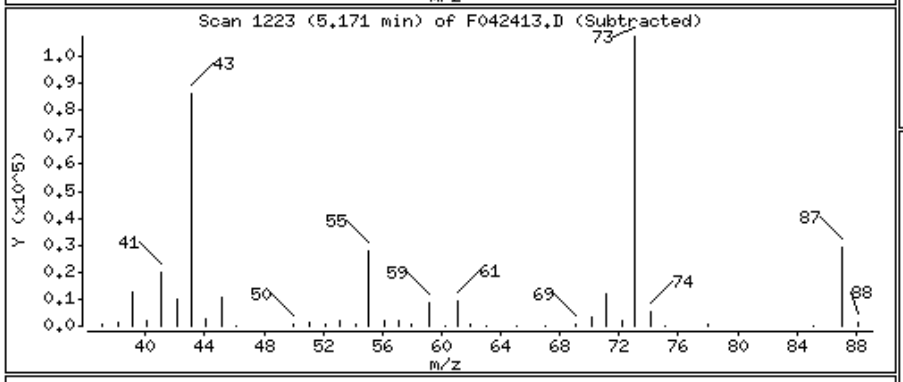
Sample Info: VSTD050;VSTD050;2;;ICV

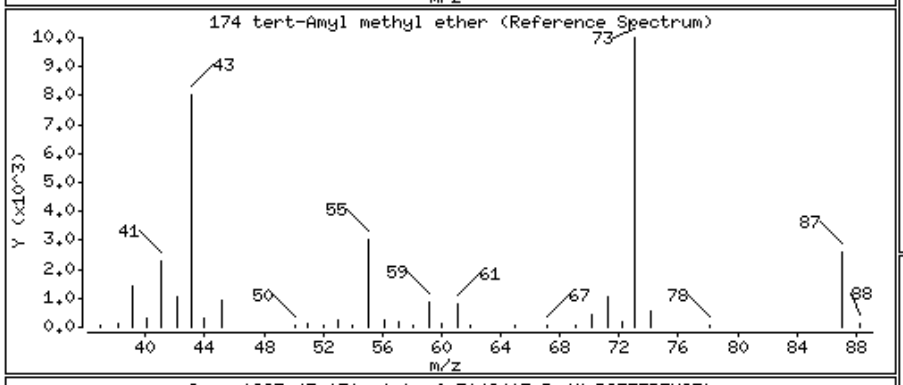
Purge Volume: 5.0 Operator: TS

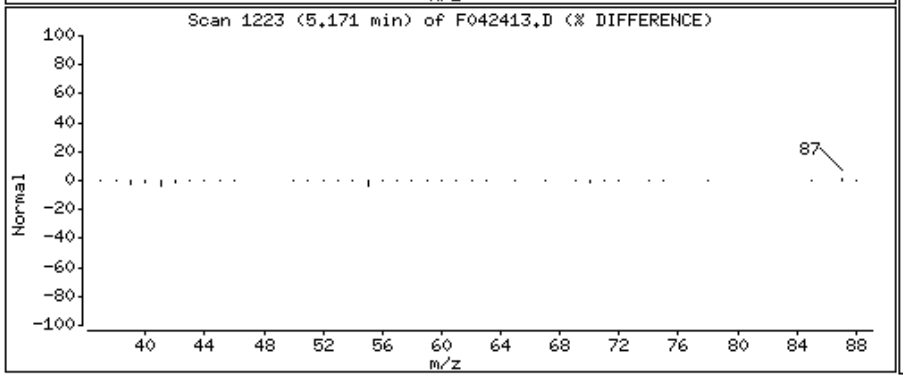
Column phase: DB624 Column diameter: 0.18

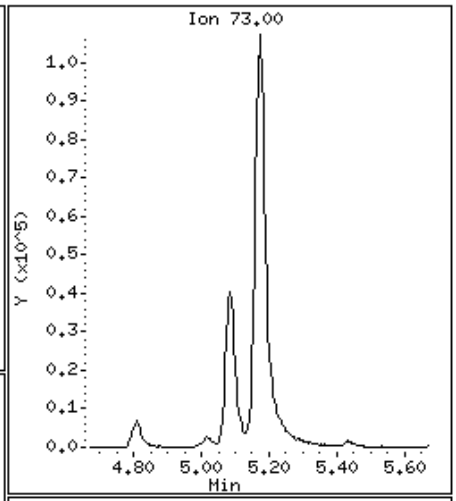
174 tert-Amyl methyl ether Concentration: 56.63 ug/l

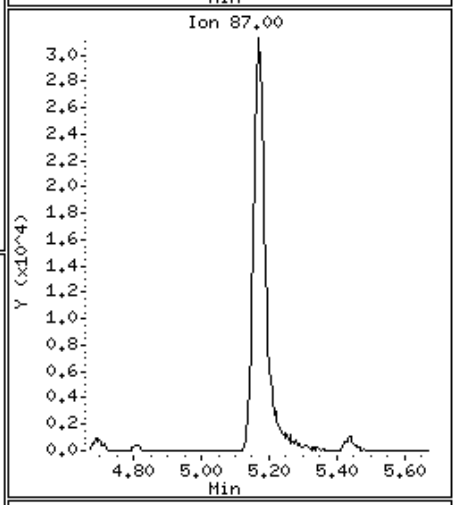


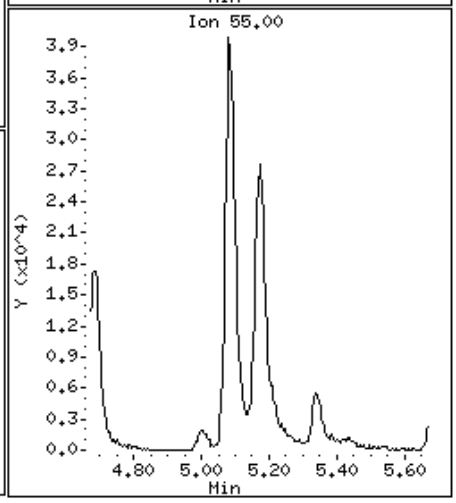












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 99

Date : 24-APR-2024 13:44

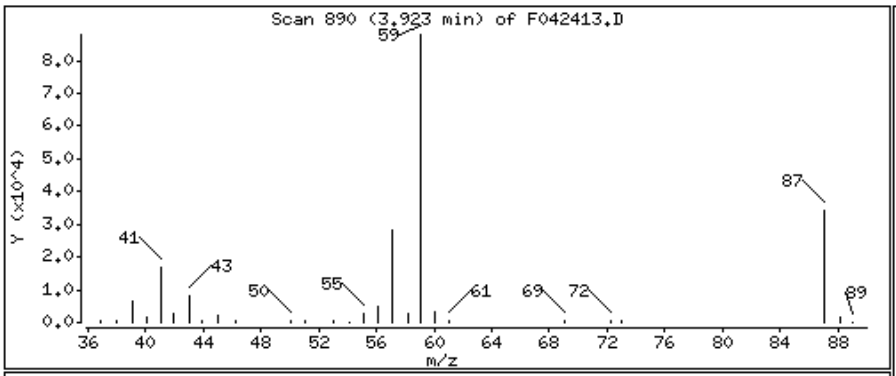
Client ID: VSTD050 Instrument: voa10.i

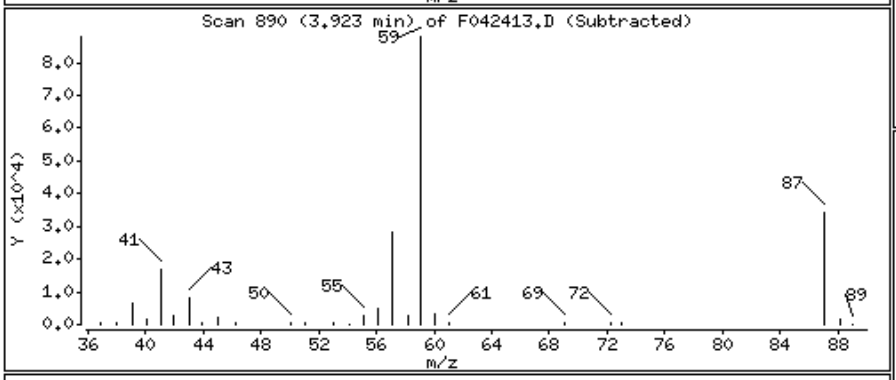
Sample Info: VSTD050;VSTD050;2;;ICV

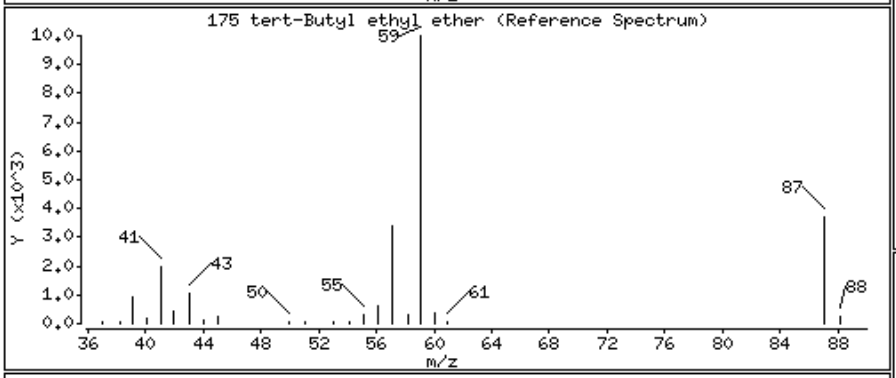
Purge Volume: 5.0 Operator: TS

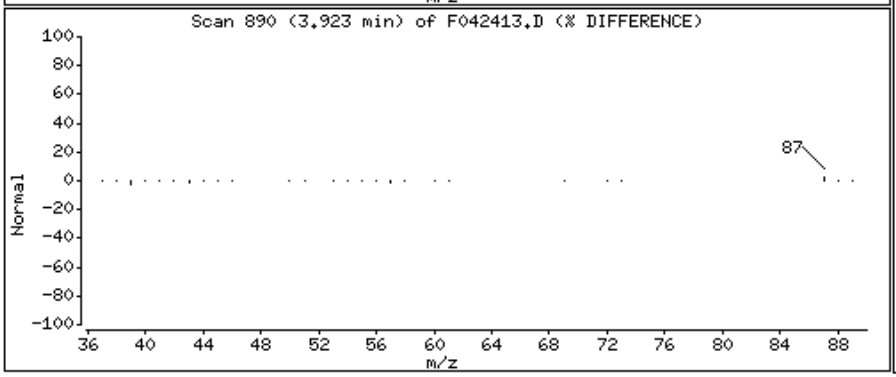
Column phase: DB624 Column diameter: 0.18

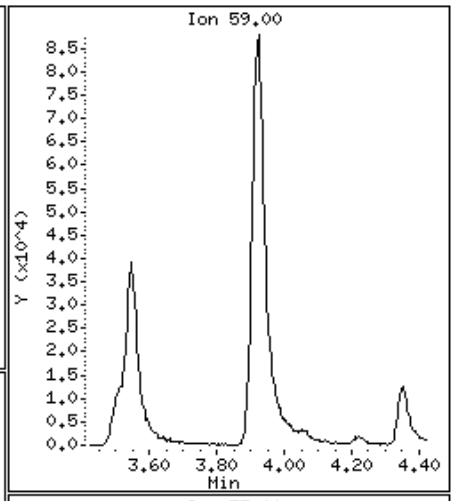
175 tert-Butyl ethyl ether Concentration: 54.67 ug/l

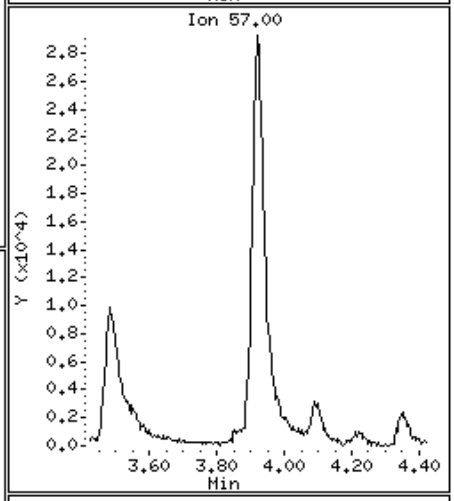


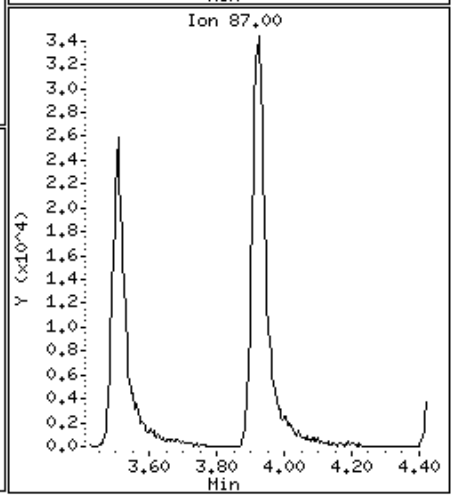












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 100

Date : 24-APR-2024 13:44

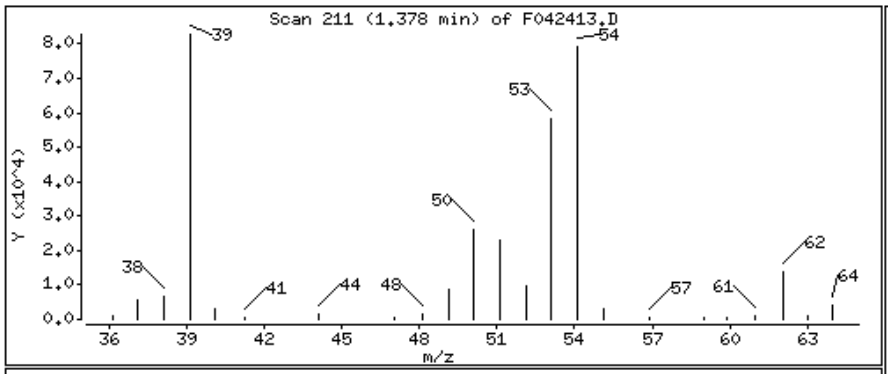
Client ID: VSTD050 Instrument: voa10.i

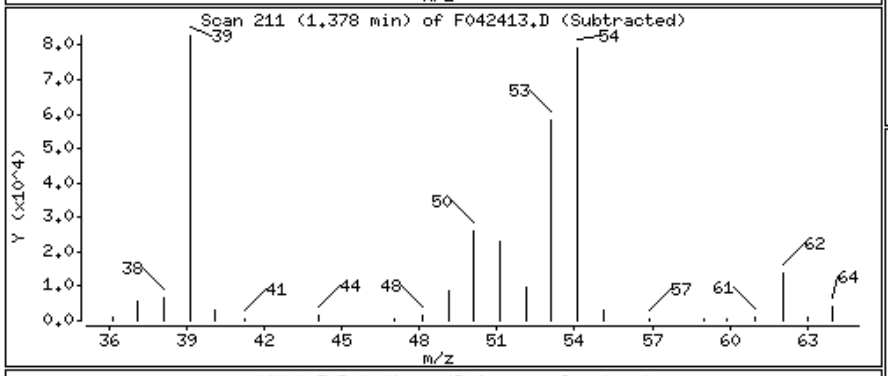
Sample Info: VSTD050;VSTD050;2;;ICV

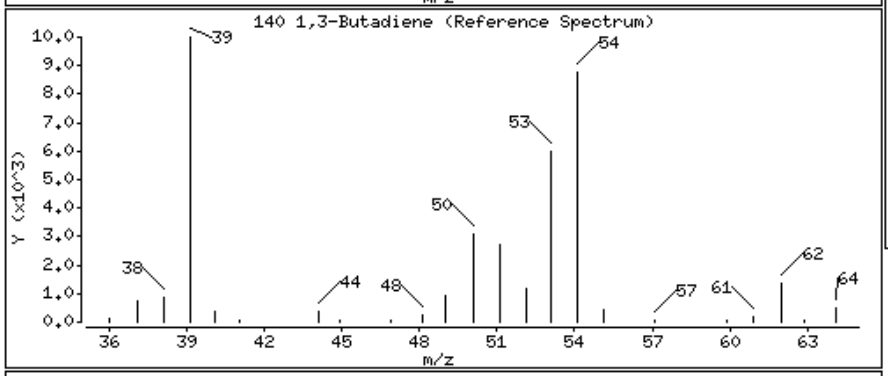
Purge Volume: 5.0 Operator: TS

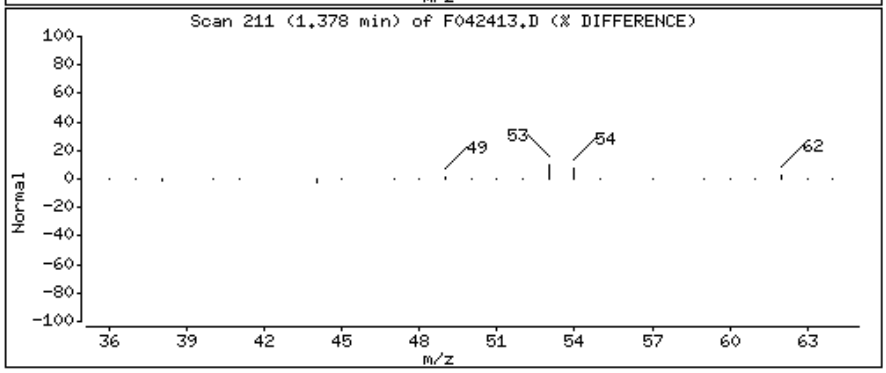
Column phase: DB624 Column diameter: 0.18

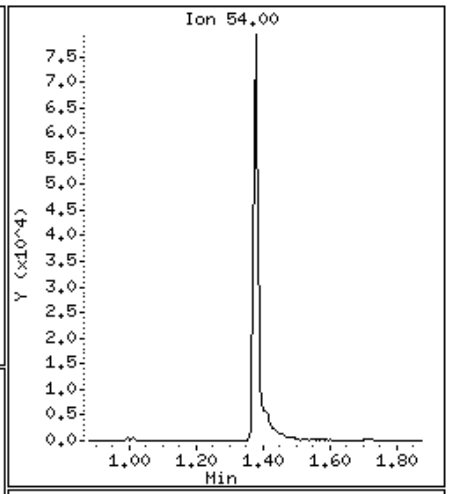
140 1,3-Butadiene Concentration: 52.81 ug/l

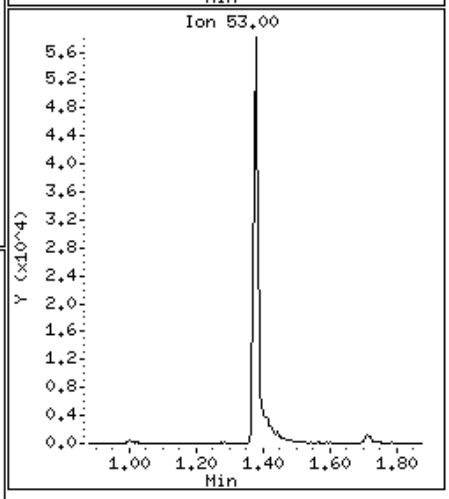












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 101

Date : 24-APR-2024 13:44

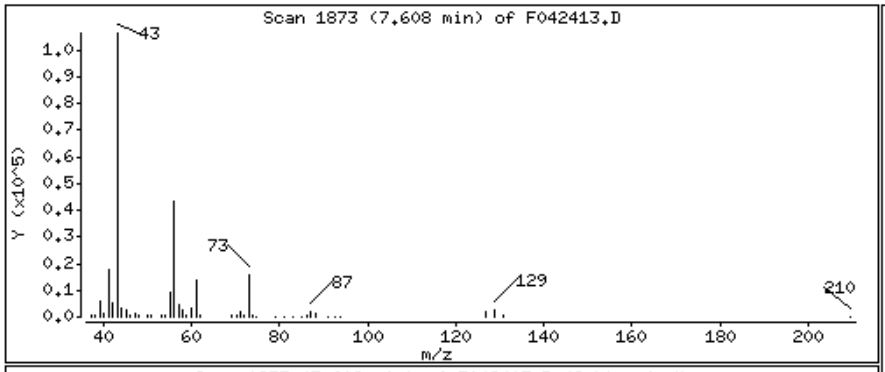
Client ID: VSTD050 Instrument: voa10.i

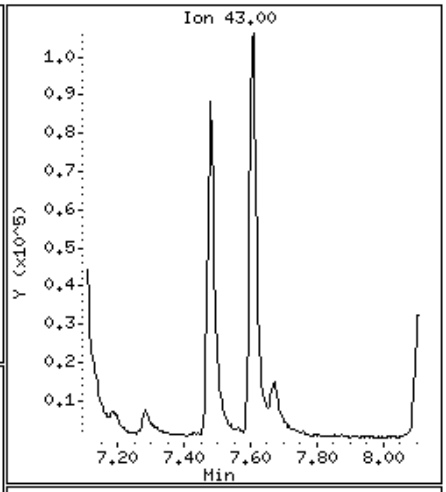
Sample Info: VSTD050;VSTD050;2;;ICV

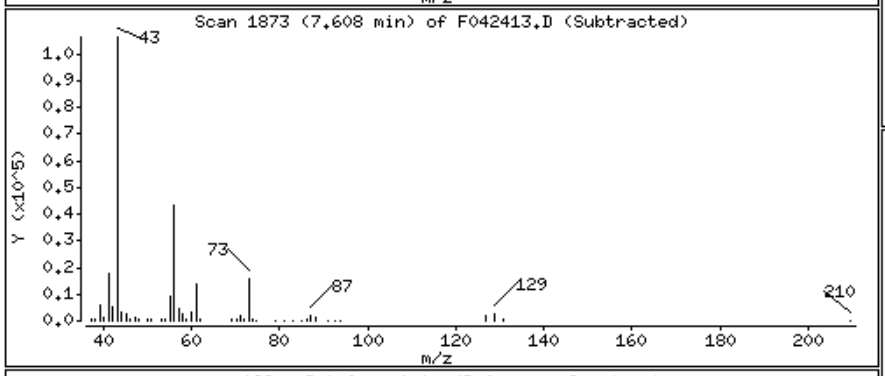
Purge Volume: 5.0 Operator: TS

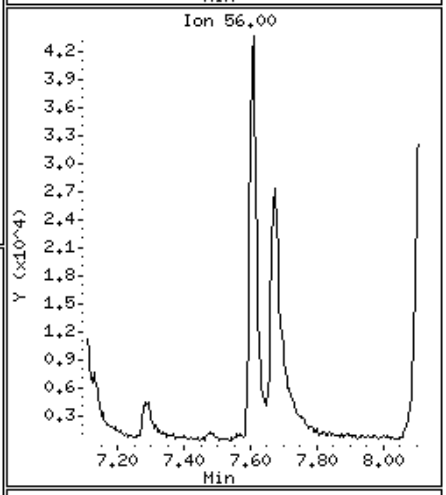
Column phase: DB624 Column diameter: 0.18

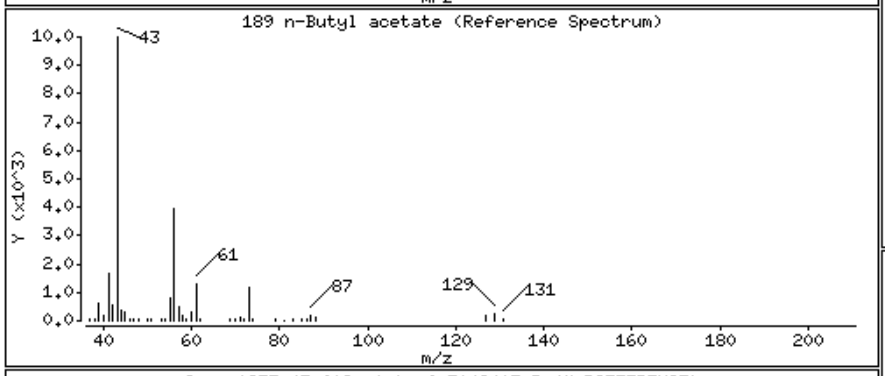
189 n-Butyl acetate Concentration: 57.66 ug/l

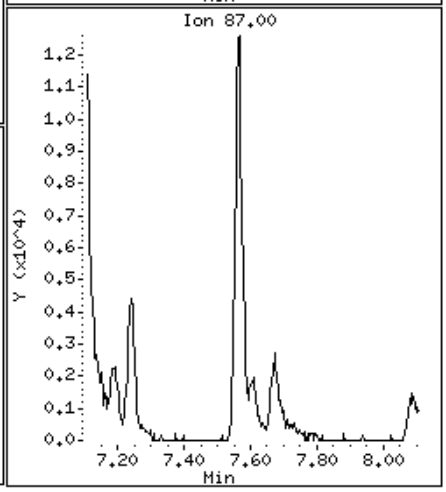


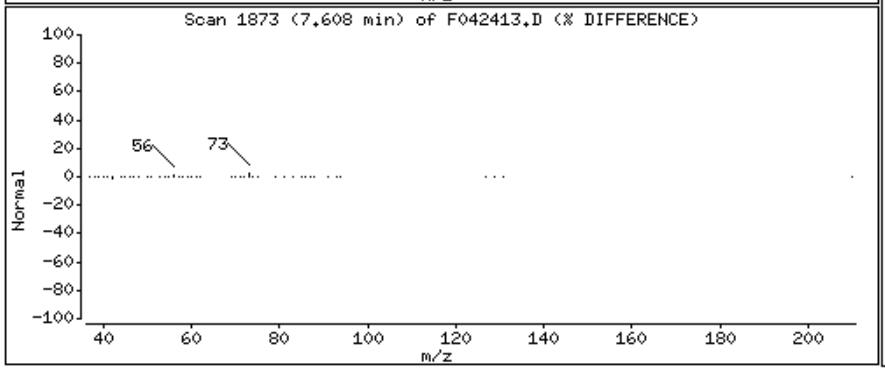












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 102

Date : 24-APR-2024 13:44

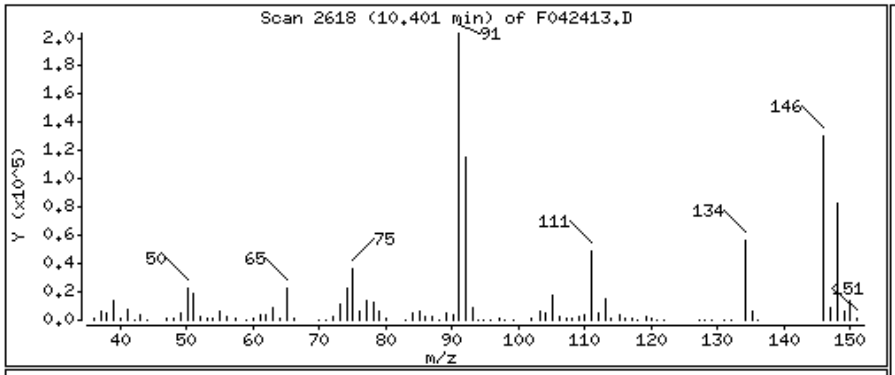
Client ID: VSTD050 Instrument: voa10.i

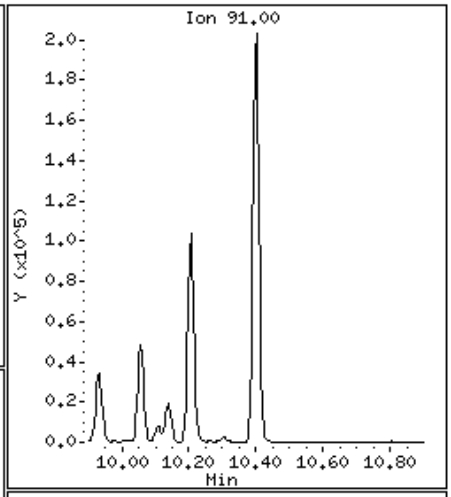
Sample Info: VSTD050;VSTD050;2;;ICV

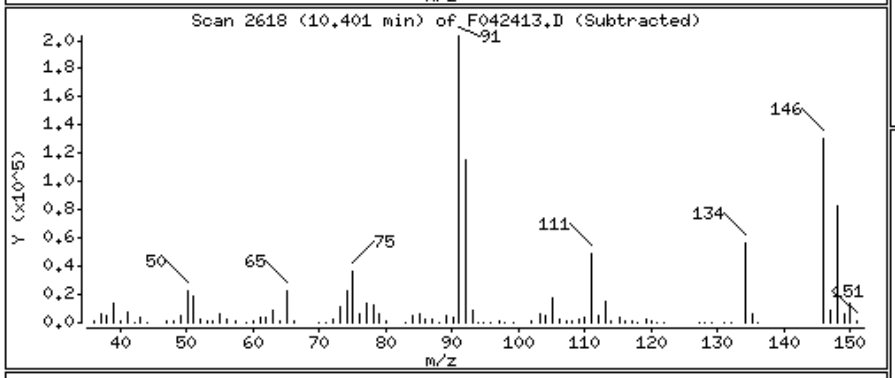
Purge Volume: 5.0 Operator: TS

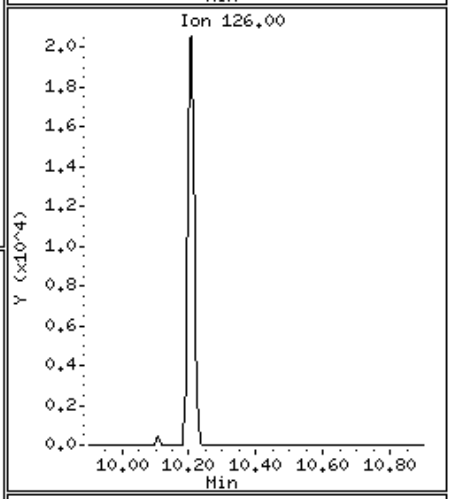
Column phase: DB624 Column diameter: 0.18

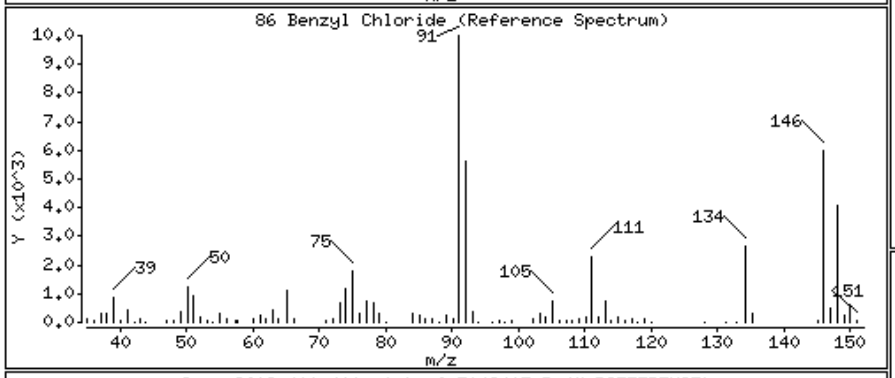
86 Benzyl Chloride Concentration: 53.74 ug/l

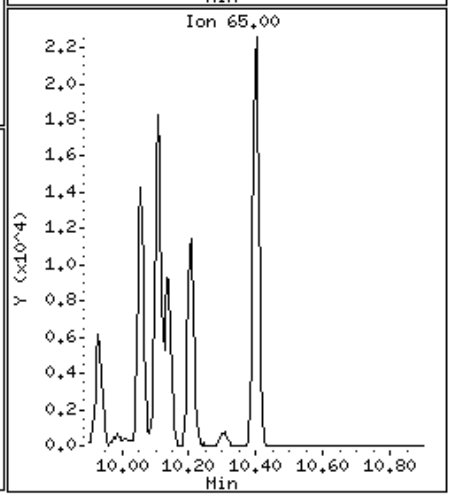


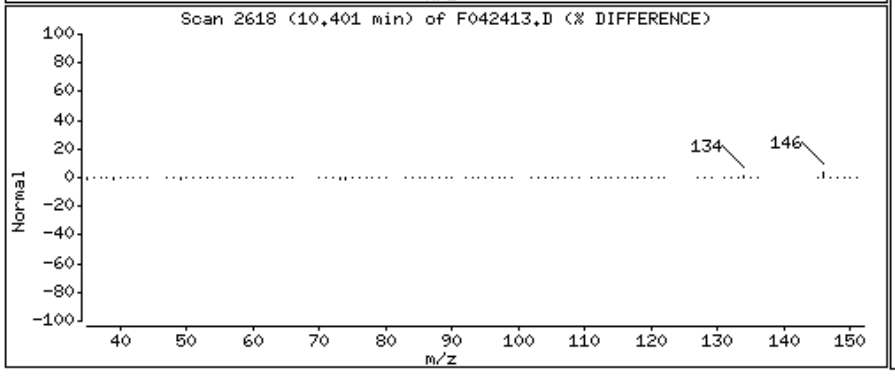












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 103

Date : 24-APR-2024 13:44

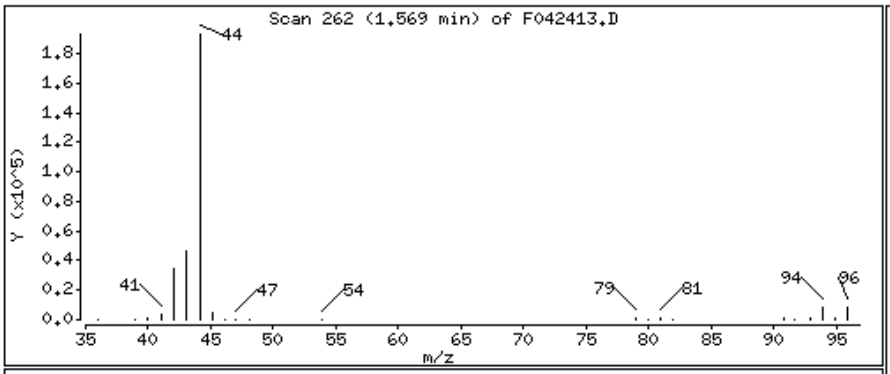
Client ID: VSTD050 Instrument: voa10.i

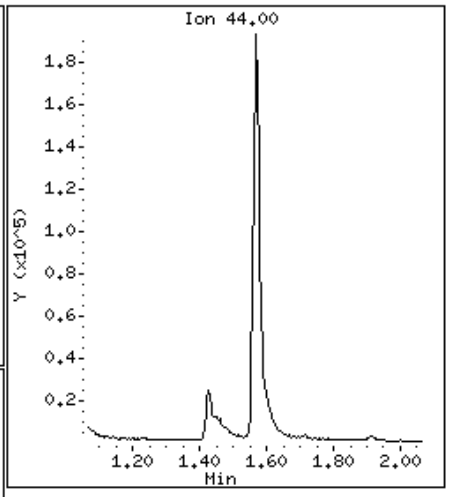
Sample Info: VSTD050;VSTD050;2;;ICV

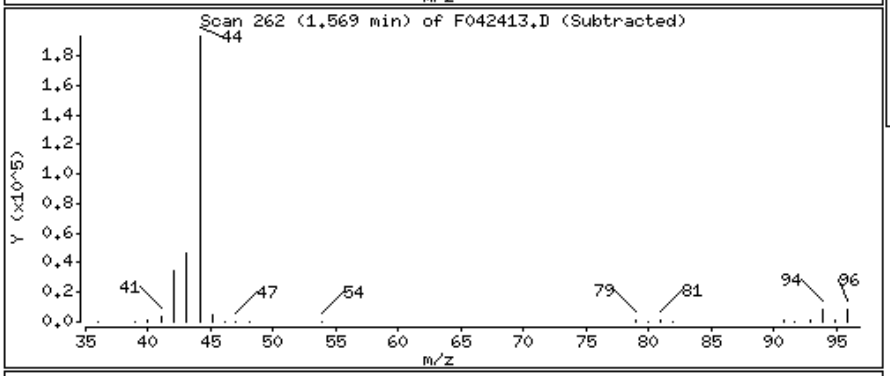
Purge Volume: 5.0 Operator: TS

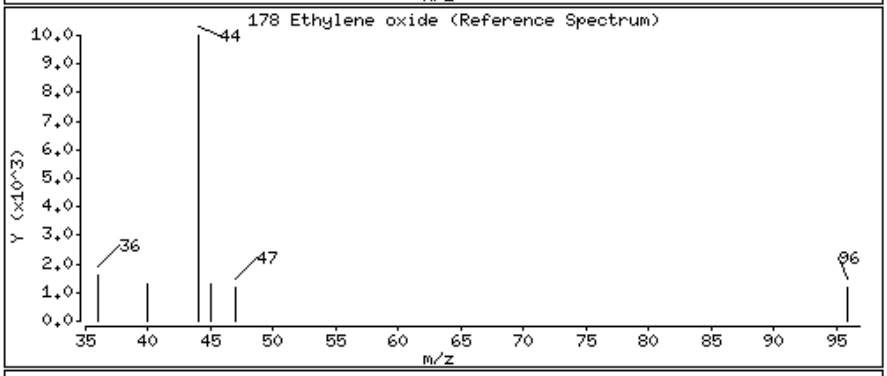
Column phase: DB624 Column diameter: 0.18

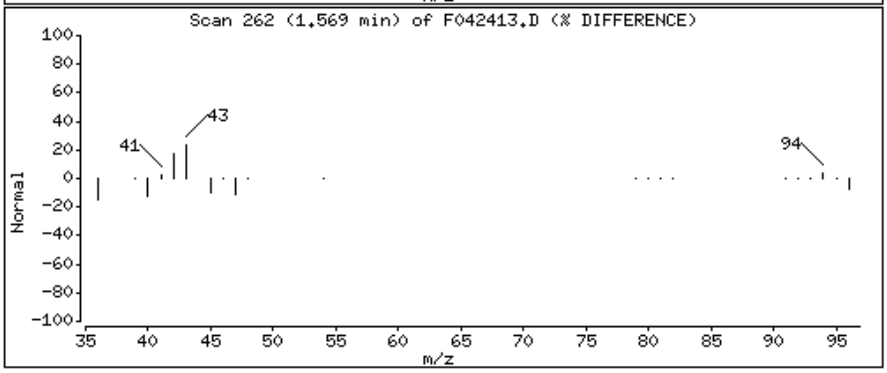
178 Ethylene oxide Concentration: 117.03 ug/l











Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

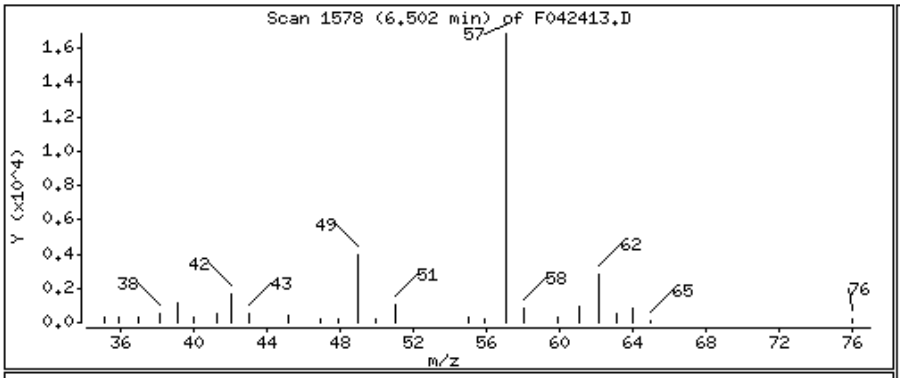
Operator: TS

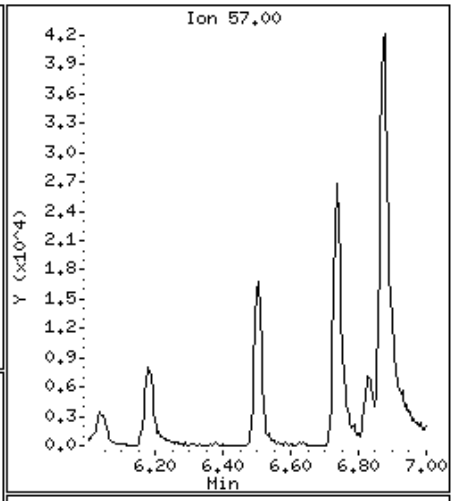
Column phase: DB624

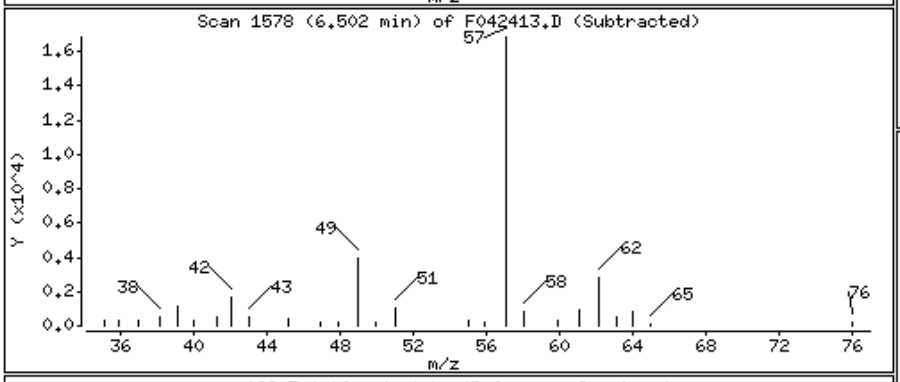
Column diameter: 0.18

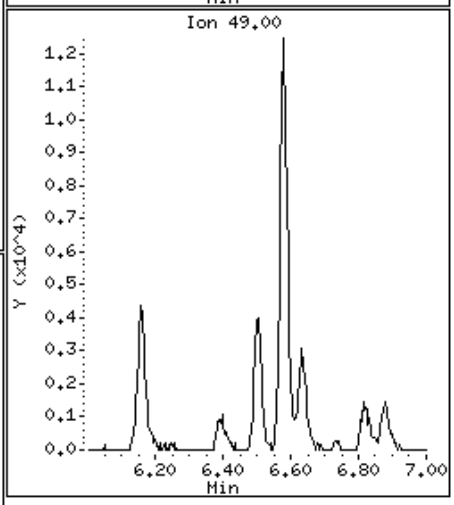
182 Epichlorohydrin

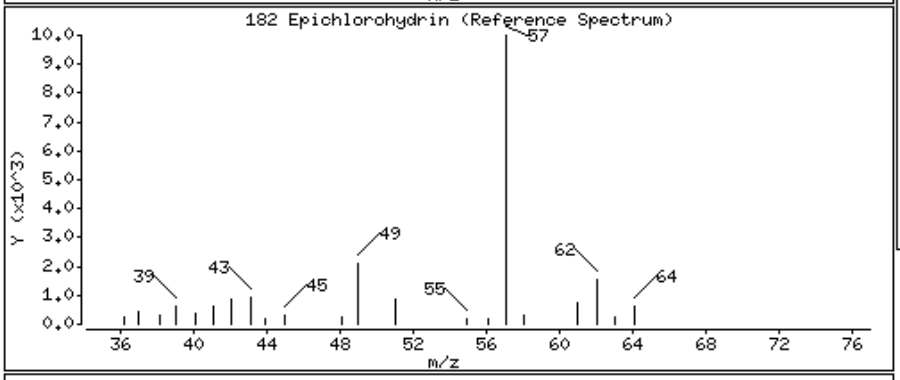
Concentration: 206.63 ug/l

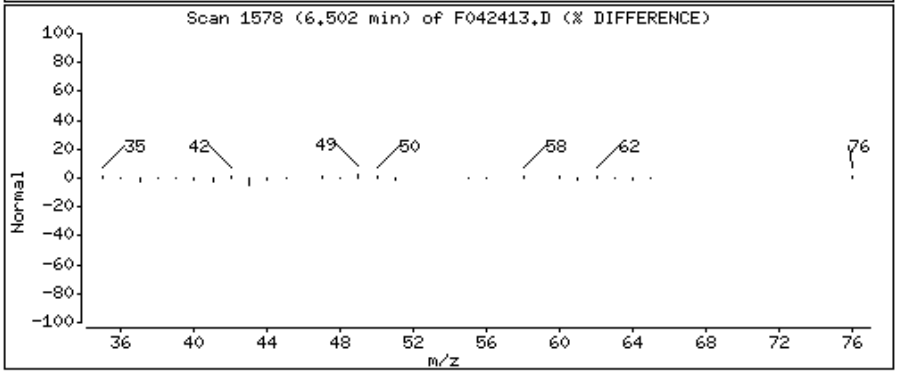












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 105

Date : 24-APR-2024 13:44

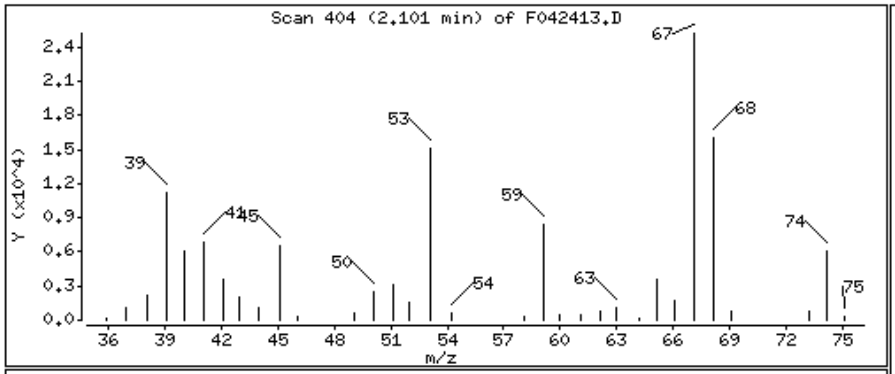
Client ID: VSTD050 Instrument: voa10.i

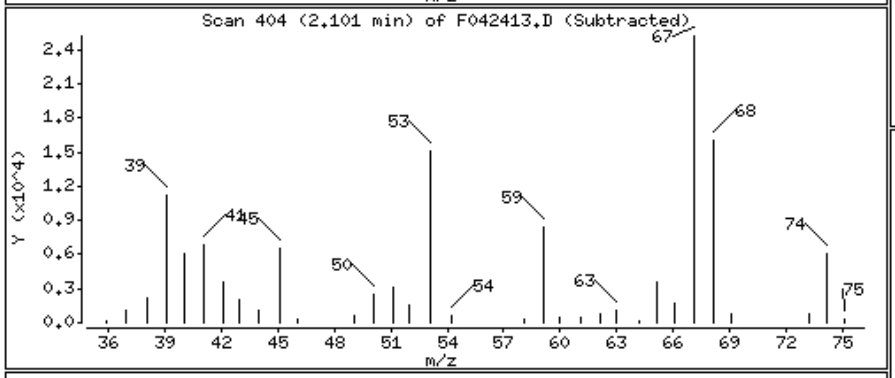
Sample Info: VSTD050;VSTD050;2;;ICV

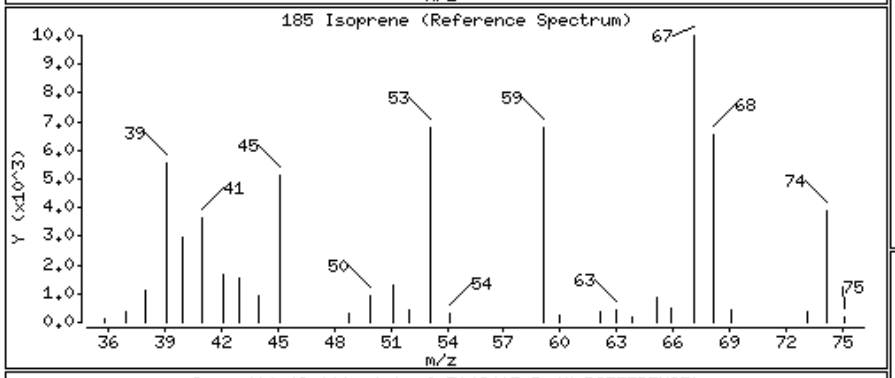
Purge Volume: 5.0 Operator: TS

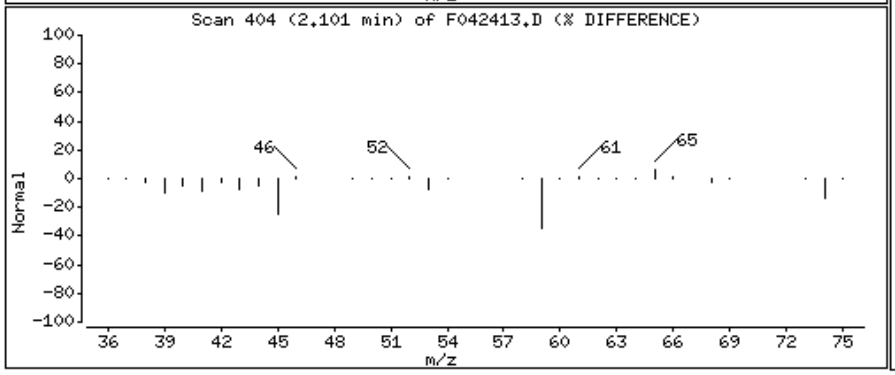
Column phase: DB624 Column diameter: 0.18

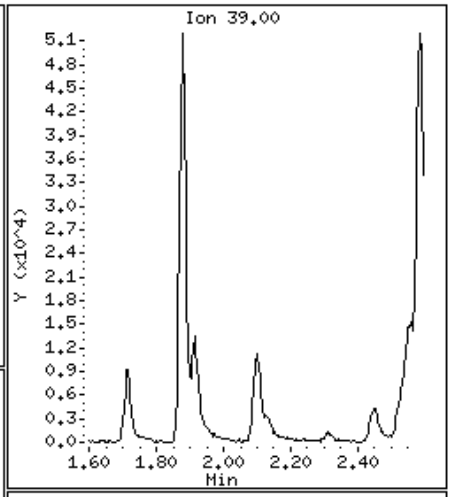
185 Isoprene Concentration: 56.68 ug/l

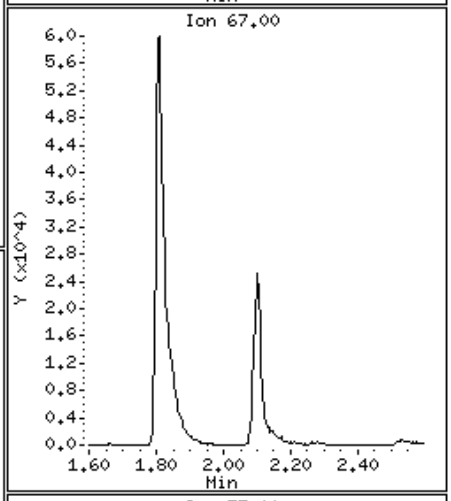


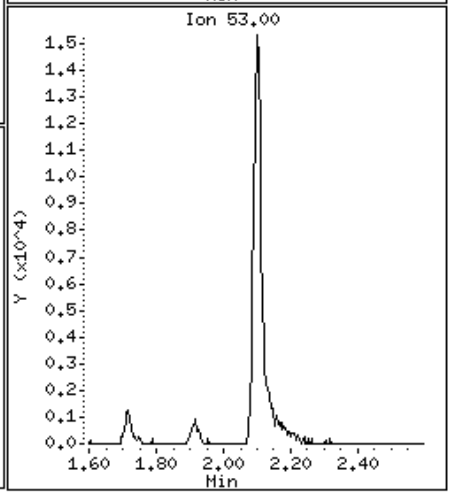












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

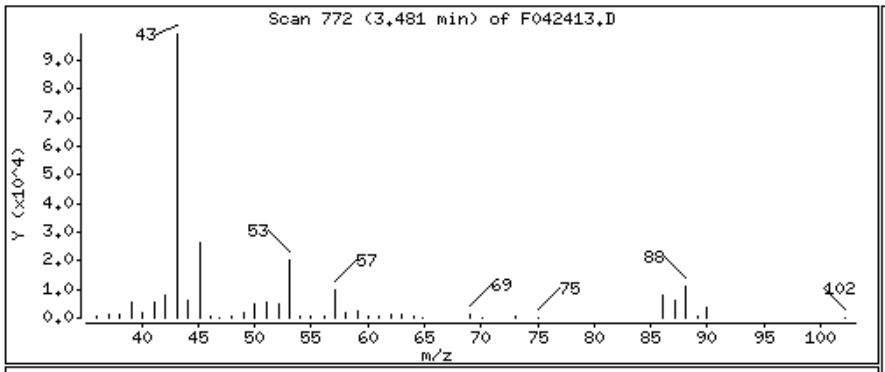
Operator: TS

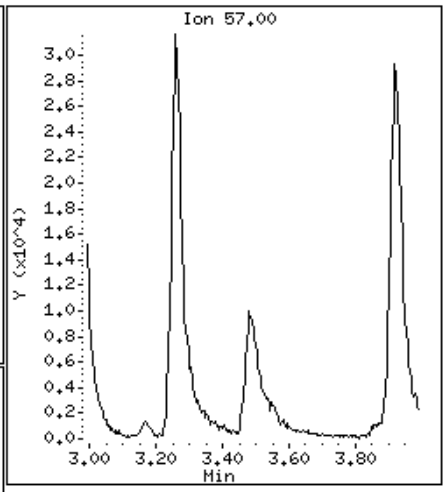
Column phase: DB624

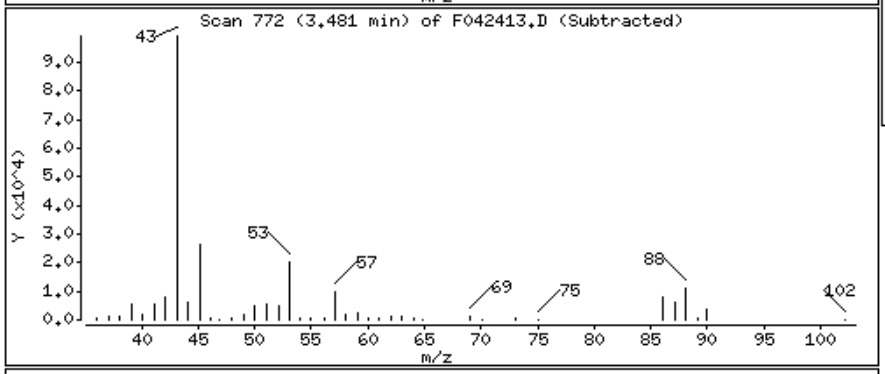
Column diameter: 0.18

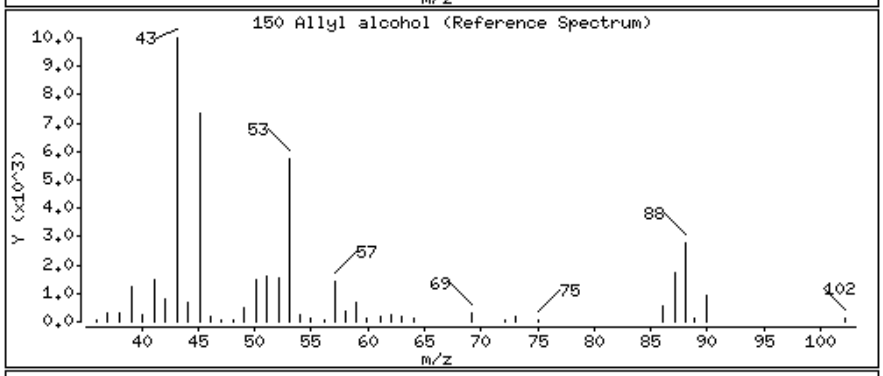
150 Allyl alcohol

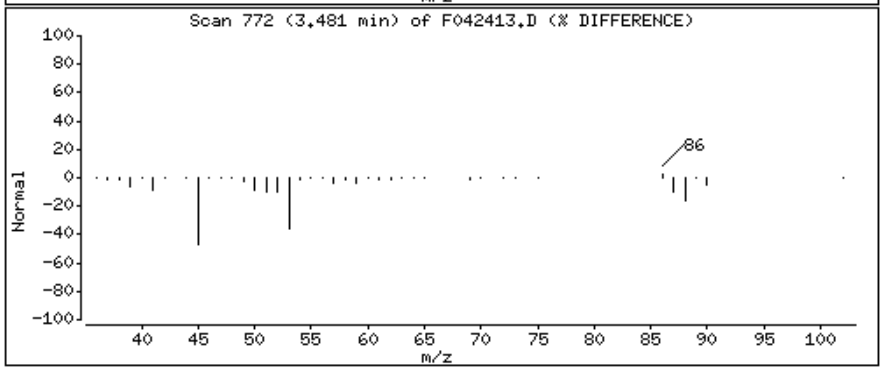
Concentration: 1003.44 ug/l











Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 107

Date : 24-APR-2024 13:44

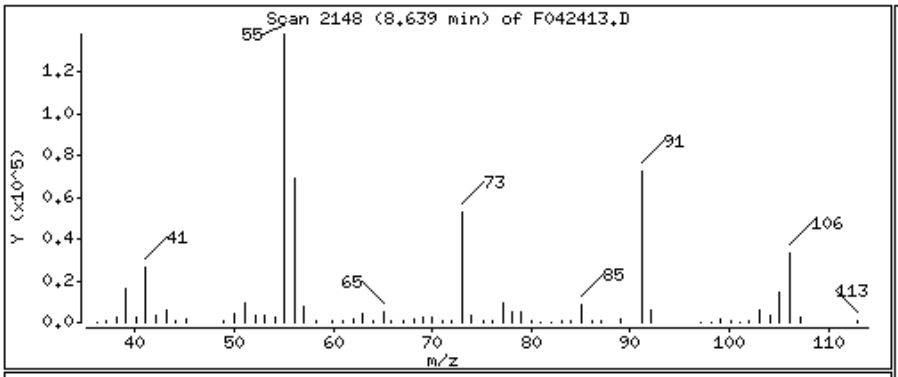
Client ID: VSTD050 Instrument: voa10.i

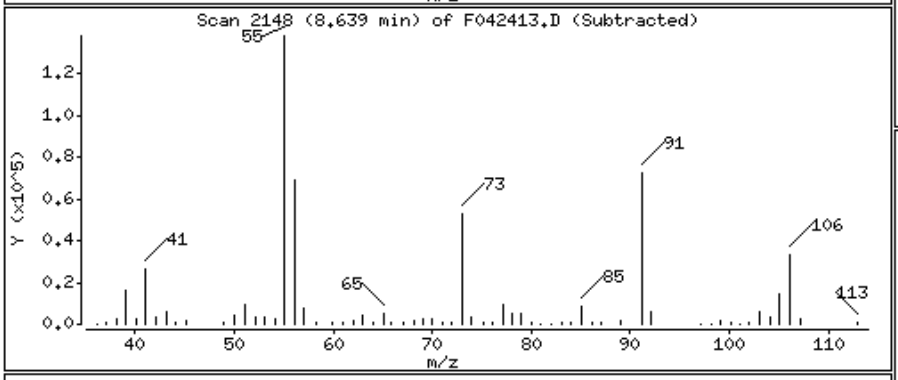
Sample Info: VSTD050;VSTD050;2;;ICV

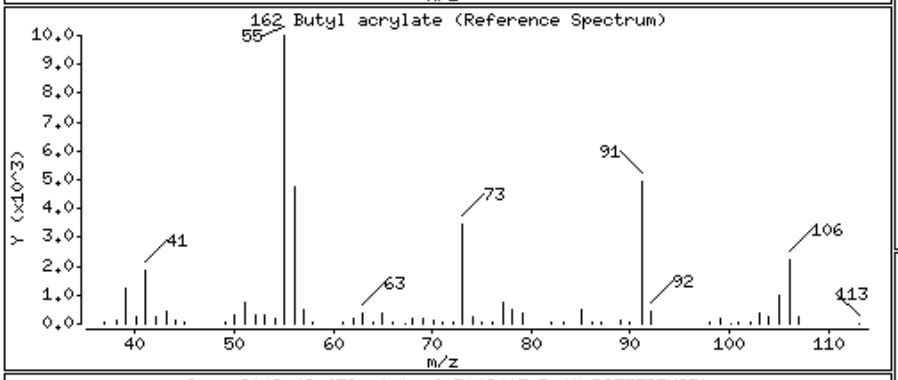
Purge Volume: 5.0 Operator: TS

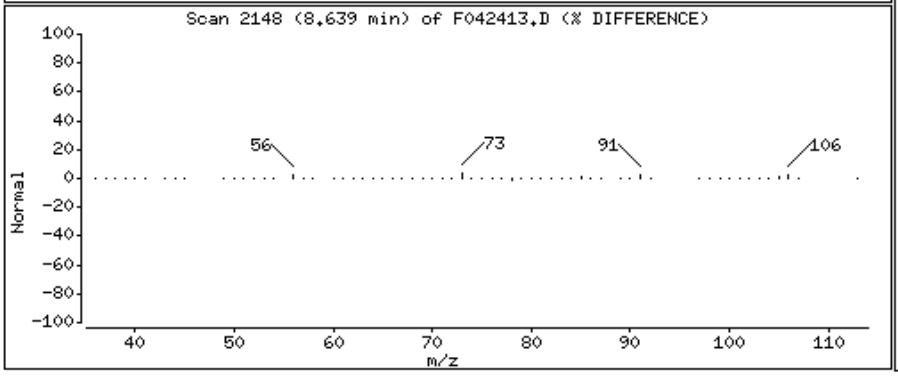
Column phase: DB624 Column diameter: 0.18

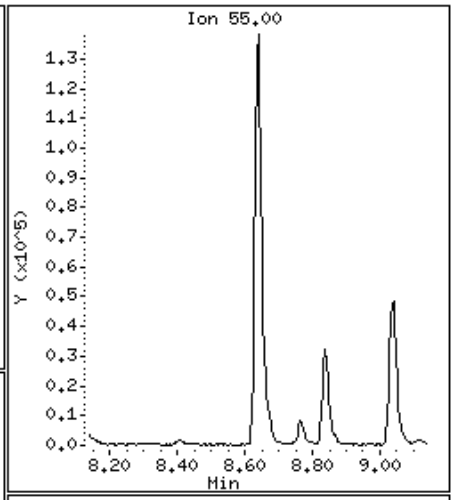
162 Butyl acrylate Concentration: 51.42 ug/l

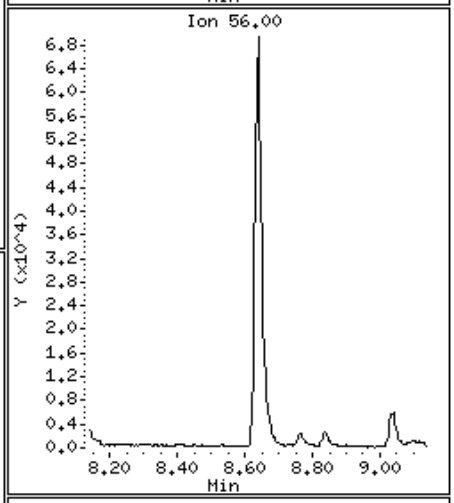


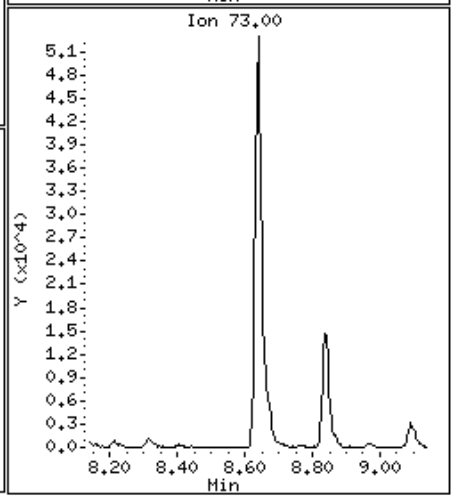












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

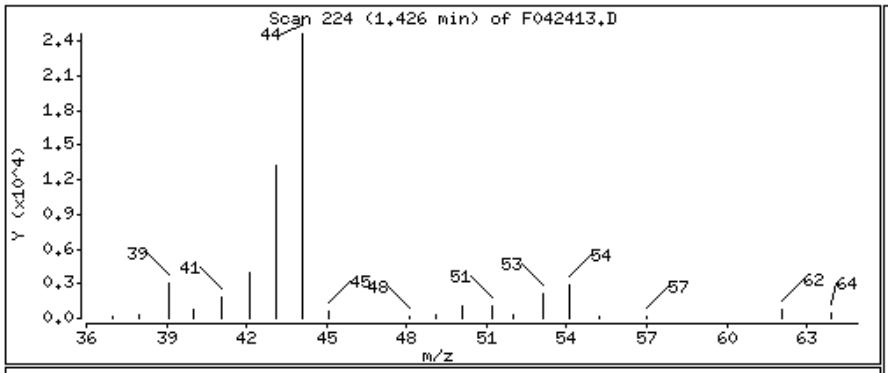
Operator: TS

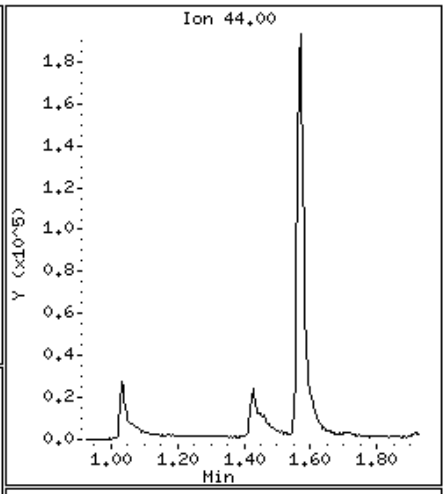
Column phase: DB624

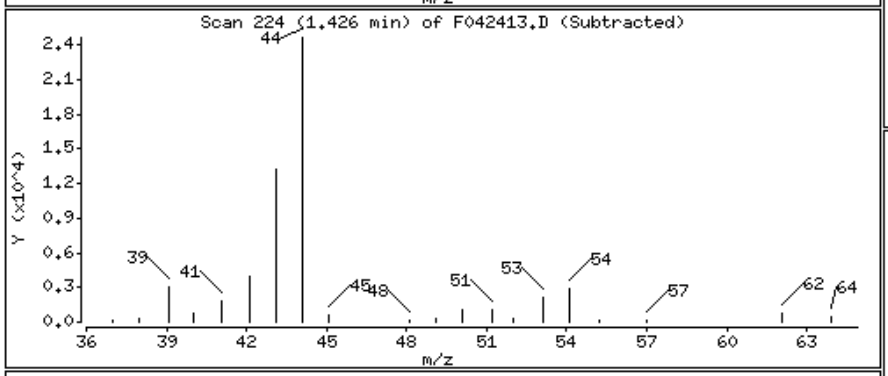
Column diameter: 0.18

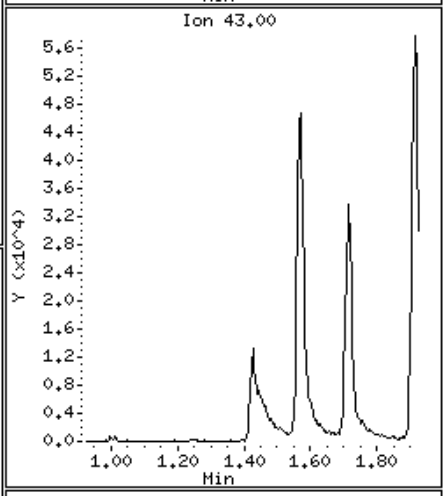
194 Acetaldehyde

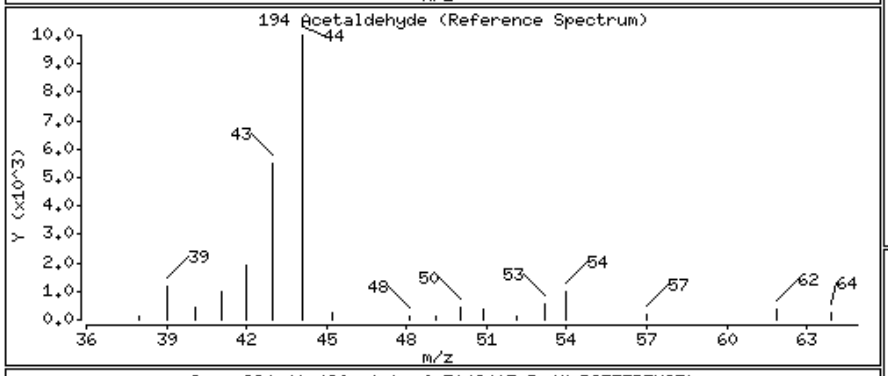
Concentration: 197.34 ug/l

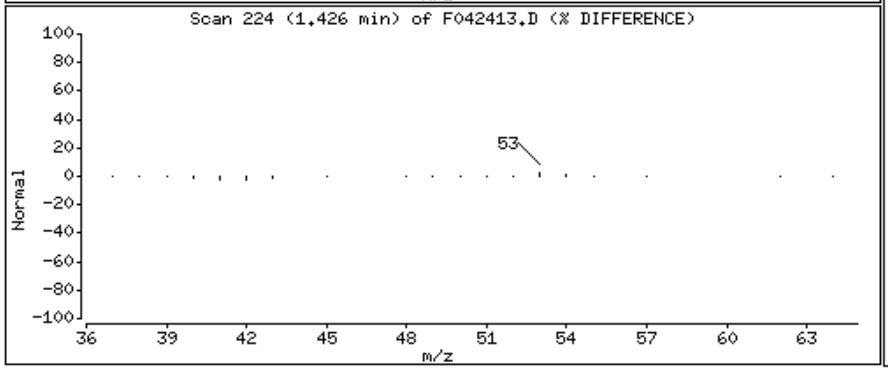


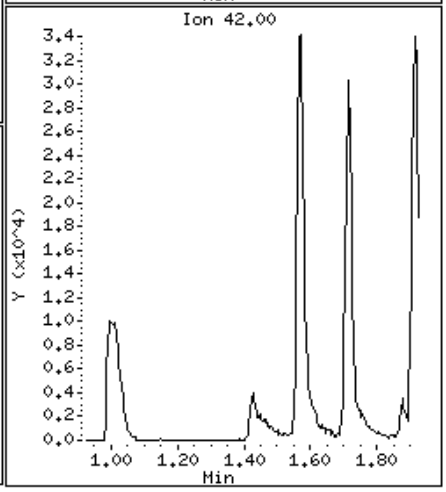












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

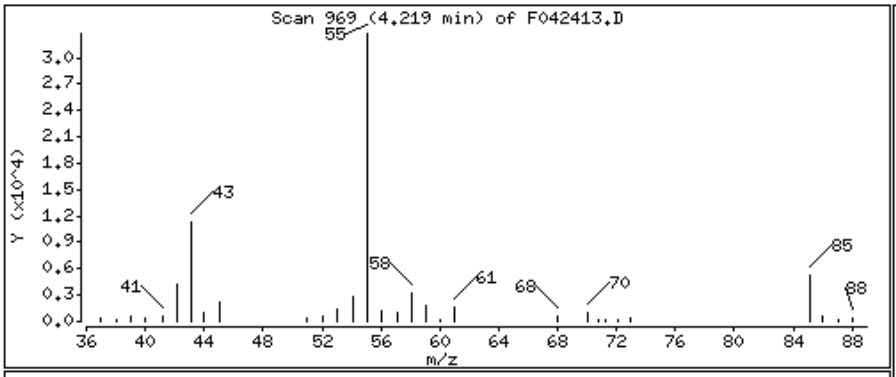
Operator: TS

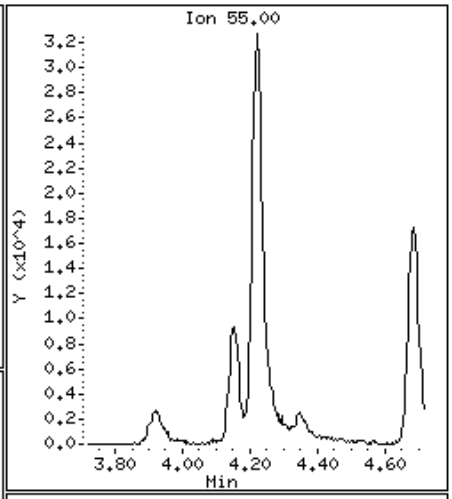
Column phase: DB624

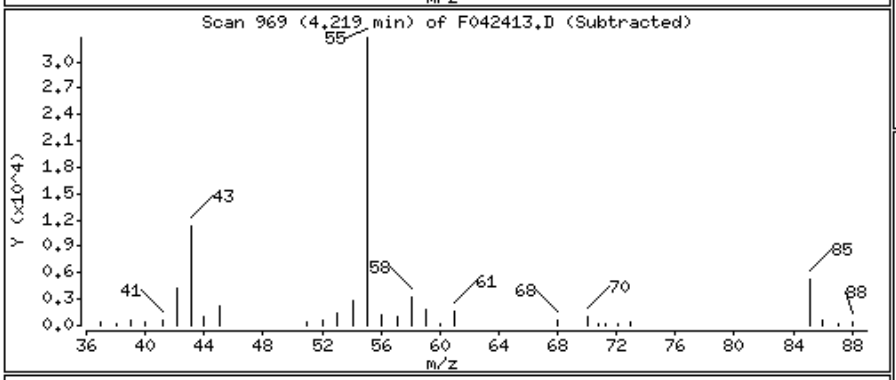
Column diameter: 0.18

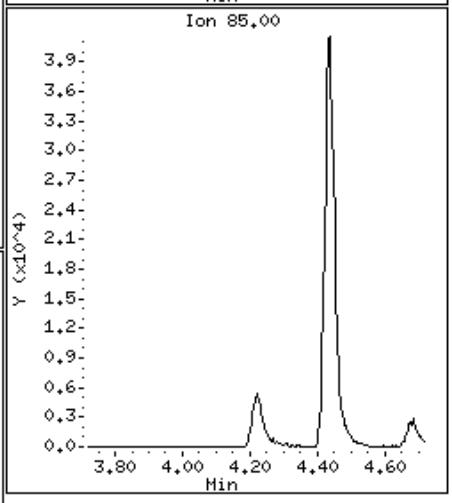
131 Methyl Acrylate

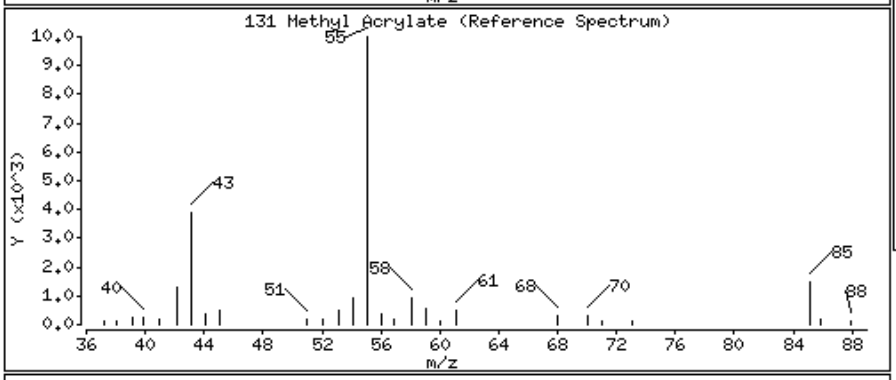
Concentration: 51.85 ug/l

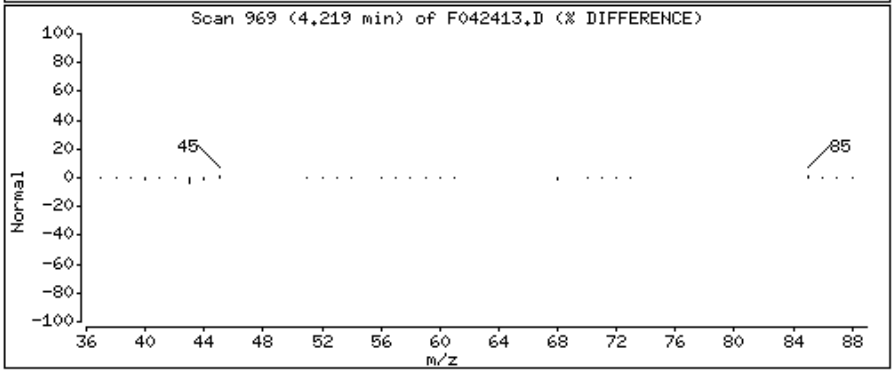












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 110

Date : 24-APR-2024 13:44

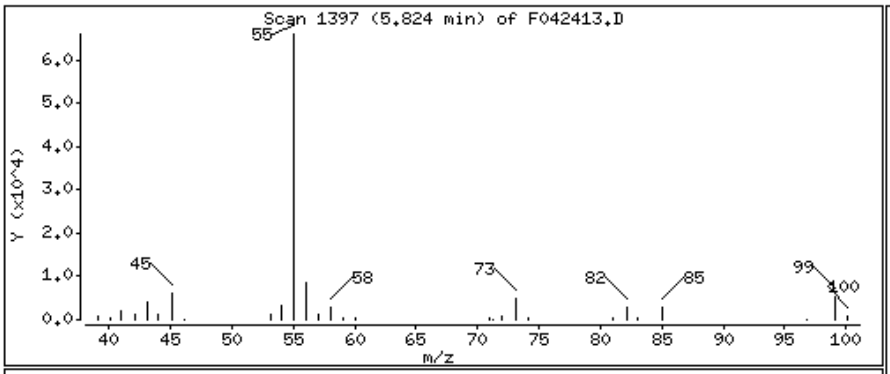
Client ID: VSTD050 Instrument: voa10.i

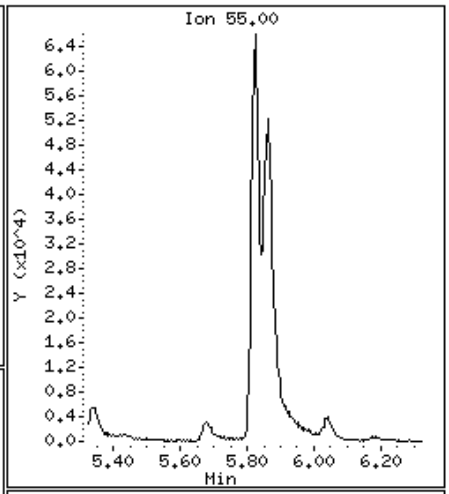
Sample Info: VSTD050;VSTD050;2;;ICV

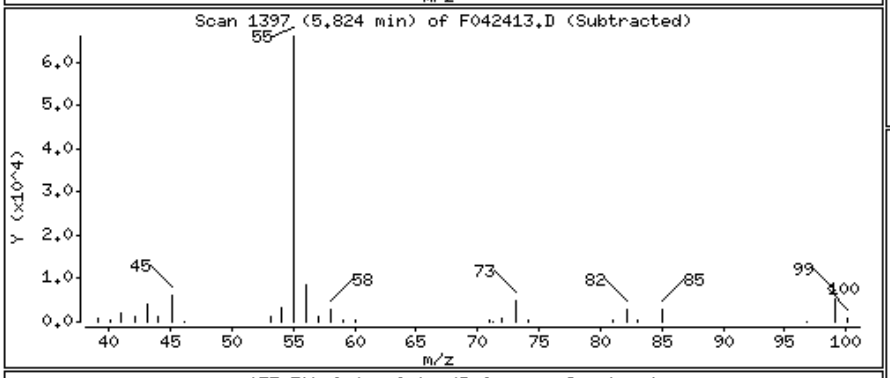
Purge Volume: 5.0 Operator: TS

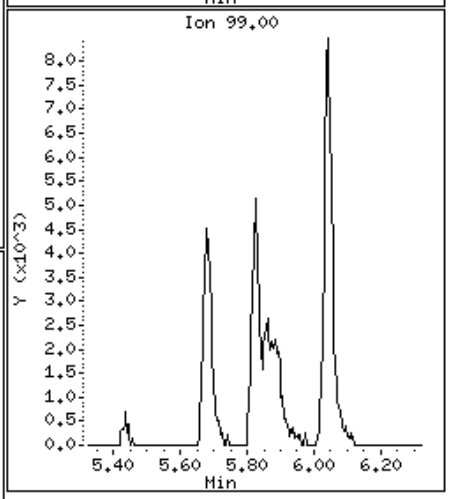
Column phase: DB624 Column diameter: 0.18

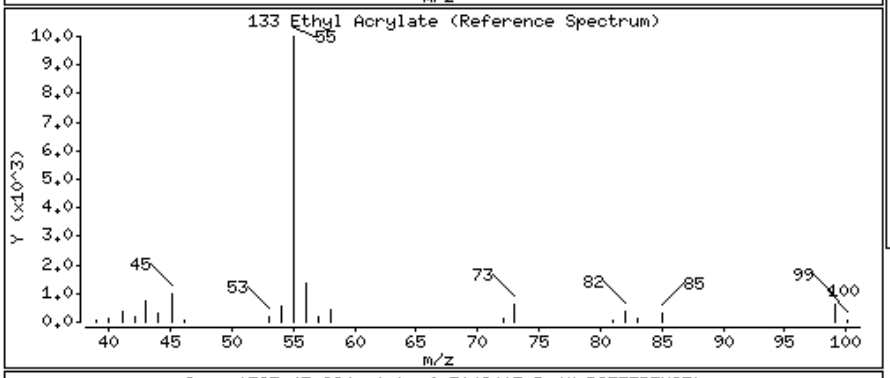
133 Ethyl Acrylate Concentration: 55.38 ug/l

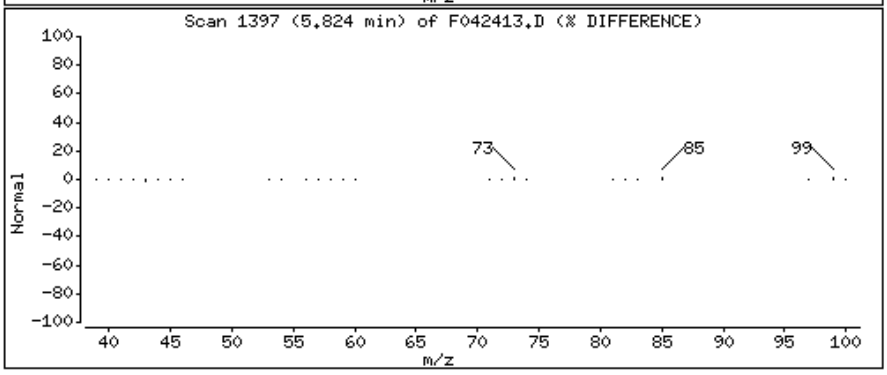












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 111

Date : 24-APR-2024 13:44

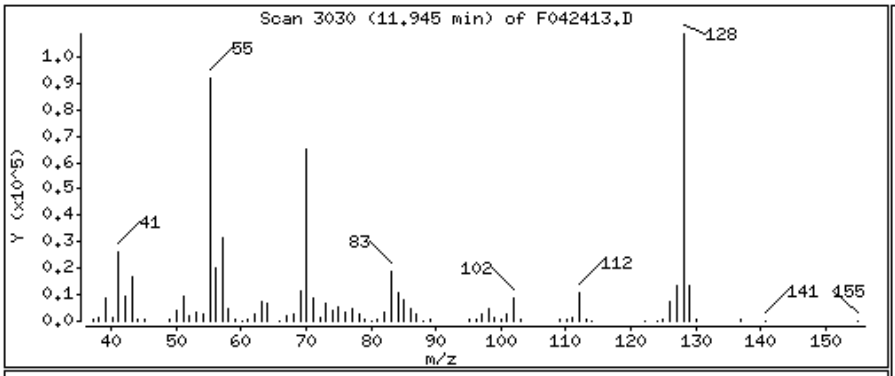
Client ID: VSTD050 Instrument: voa10.i

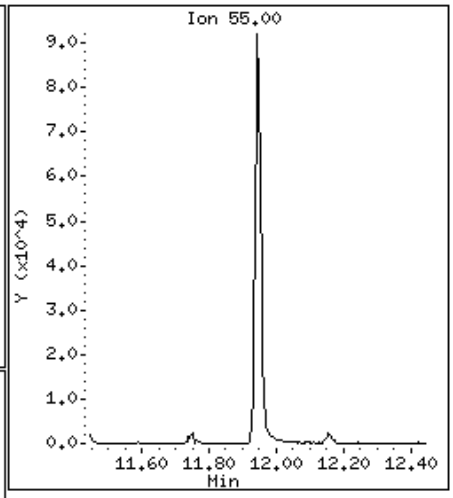
Sample Info: VSTD050;VSTD050;2;;ICV

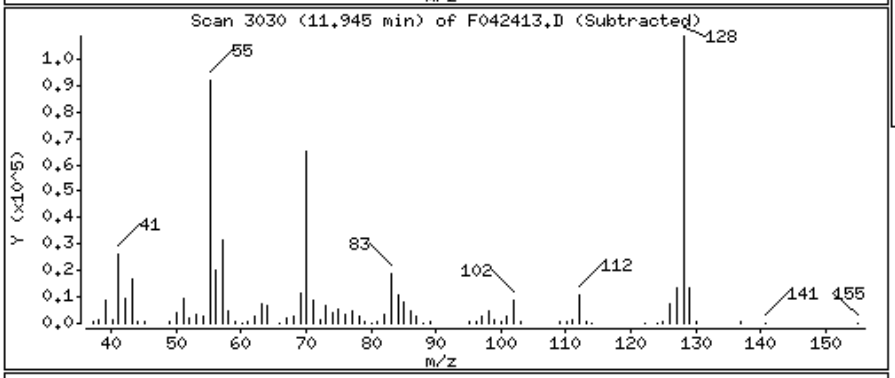
Purge Volume: 5.0 Operator: TS

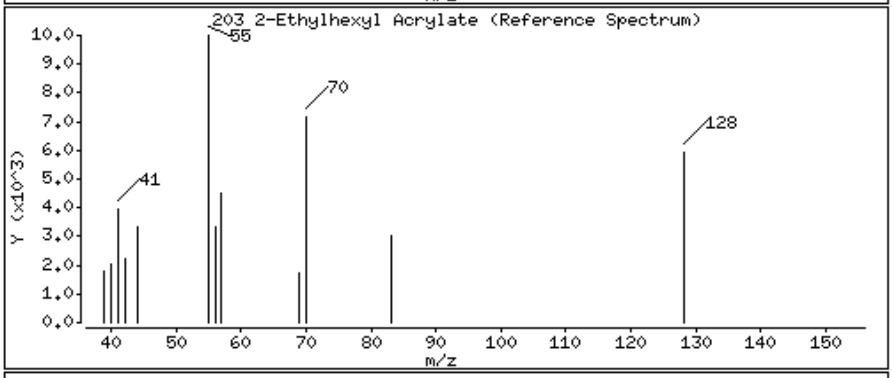
Column phase: DB624 Column diameter: 0.18

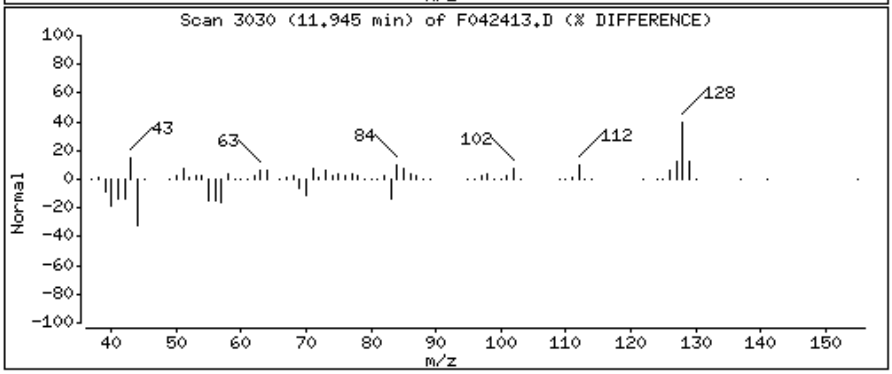
203 2-Ethylhexyl Acrylate Concentration: 52.99 ug/l











Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

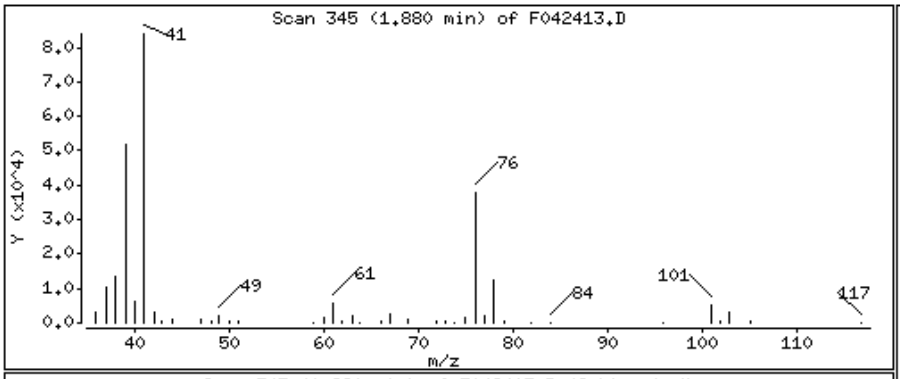
Operator: TS

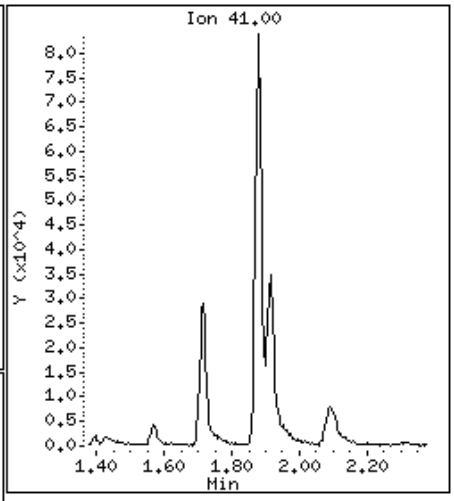
Column phase: DB624

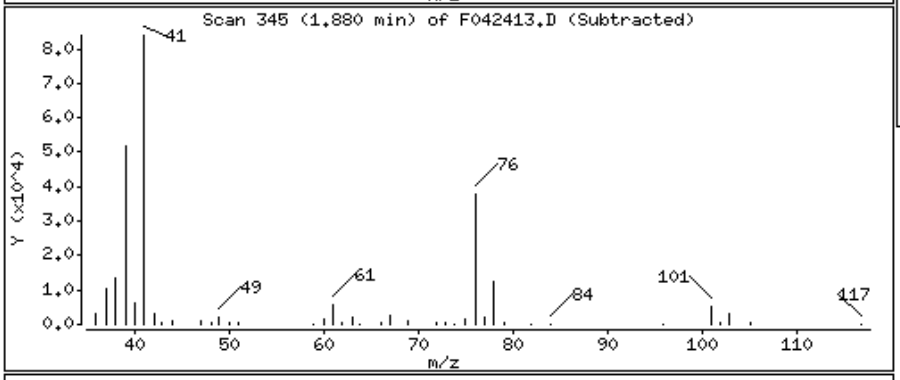
Column diameter: 0.18

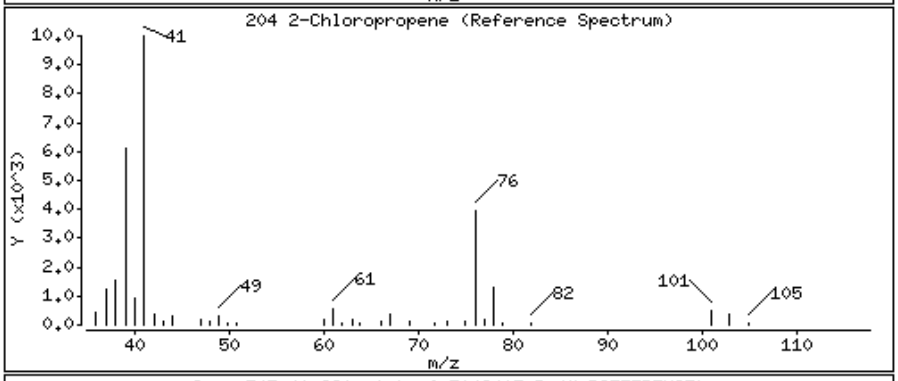
204 2-Chloropropene

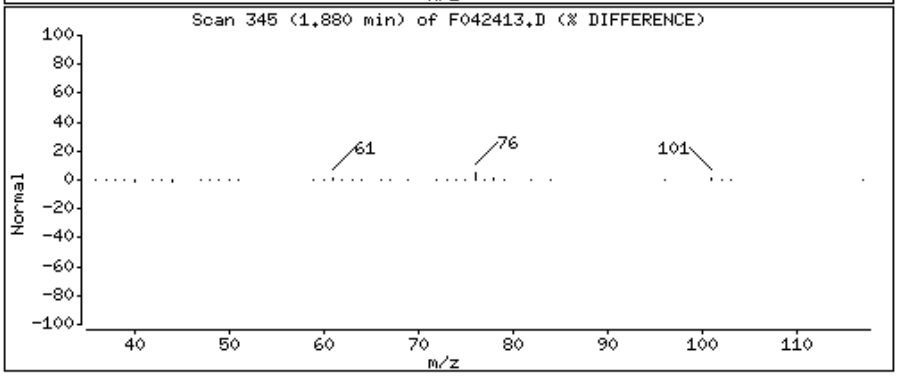
Concentration: 56.25 ug/l











Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D Page 113

Date : 24-APR-2024 13:44

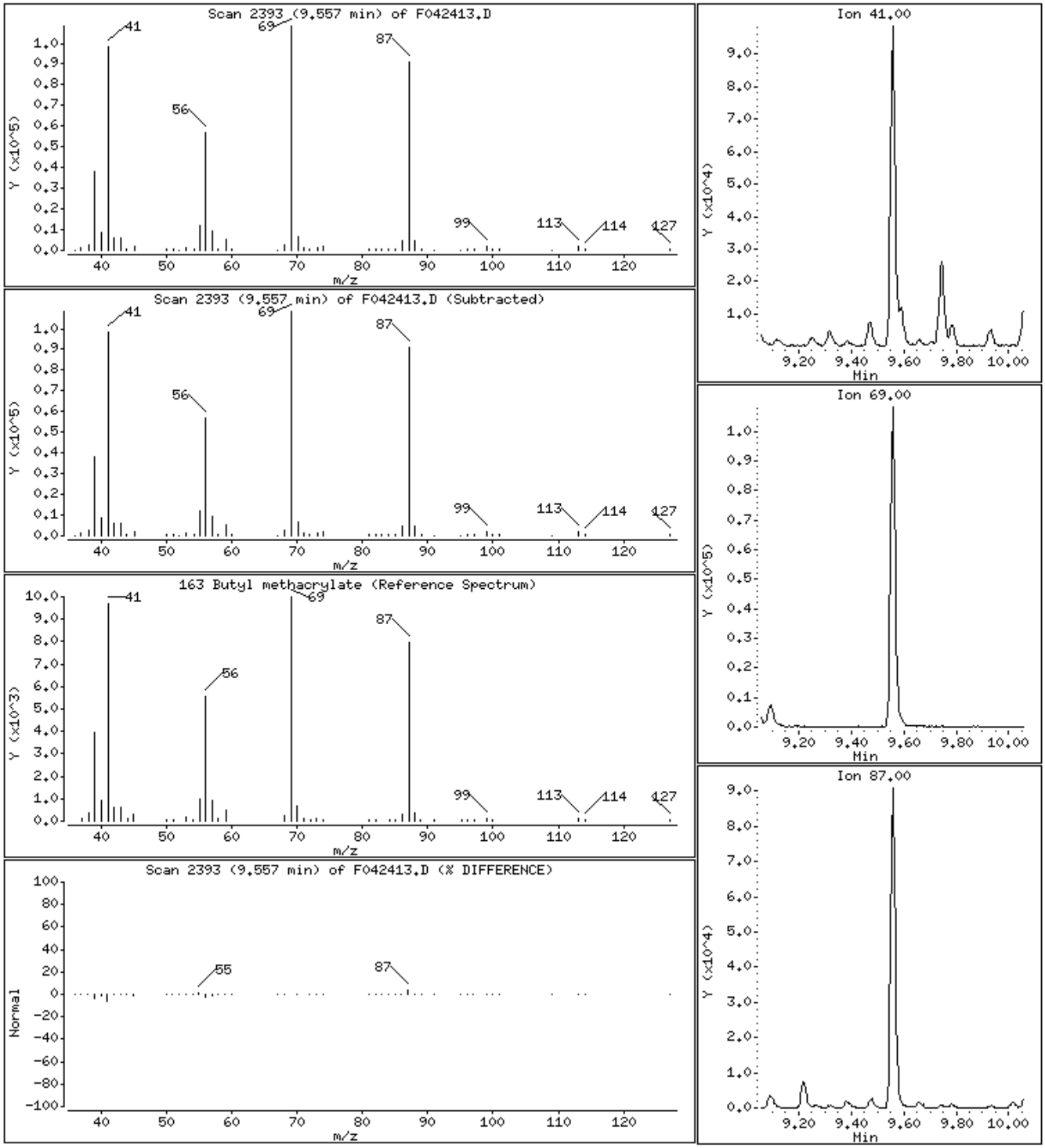
Client ID: VSTD050 Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0 Operator: TS

Column phase: DB624 Column diameter: 0.18

163 Butyl methacrylate Concentration: 55.44 ug/l



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

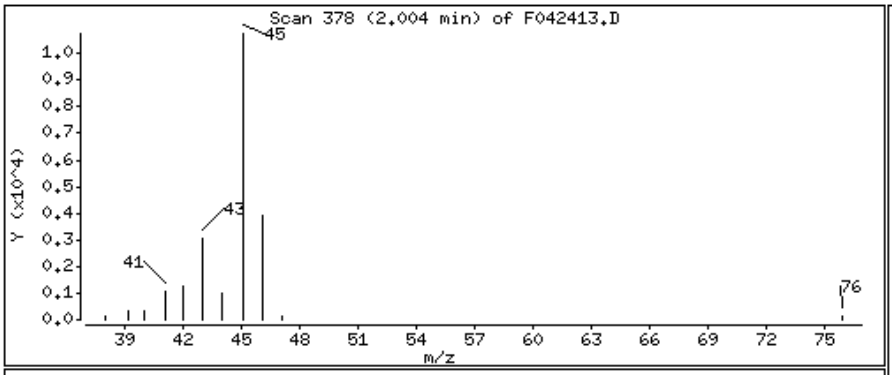
Operator: TS

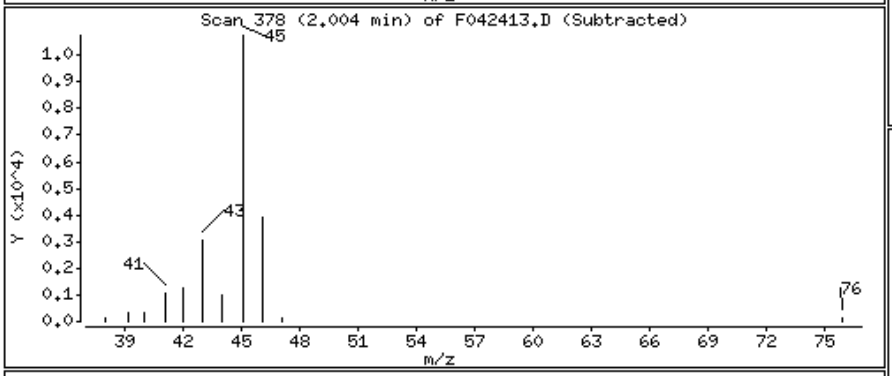
Column phase: DB624

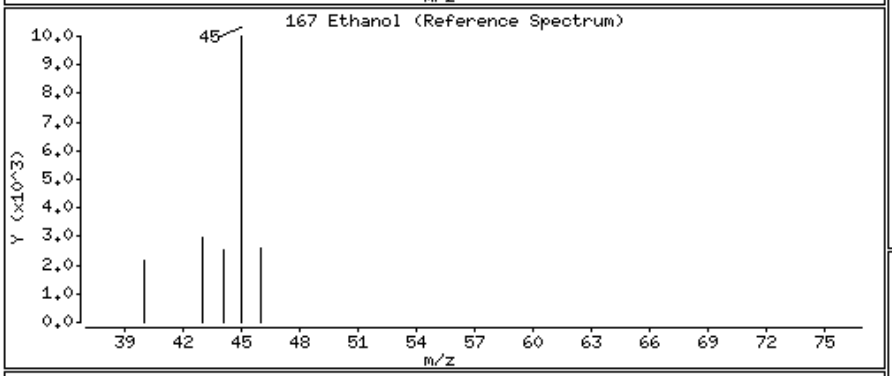
Column diameter: 0.18

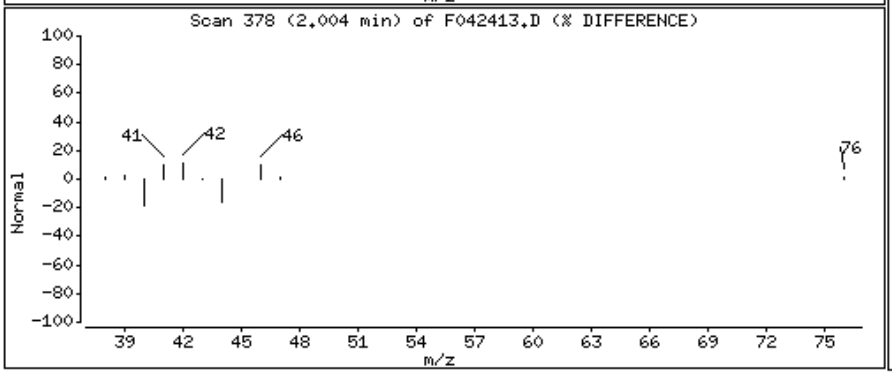
167 Ethanol

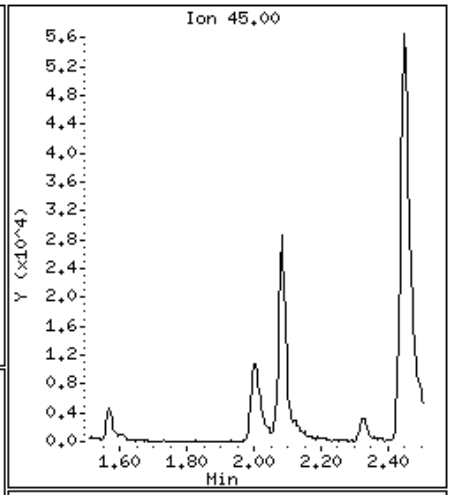
Concentration: 1125.36 ug/l

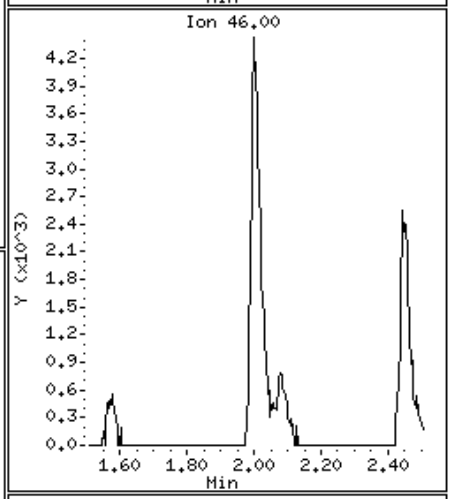


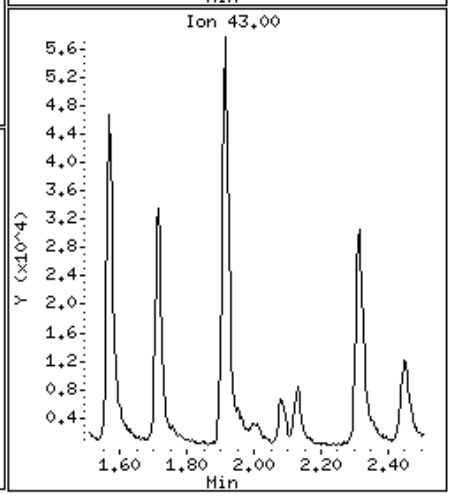












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042413.D

Date : 24-APR-2024 13:44

Client ID: VSTD050

Instrument: voa10.i

Sample Info: VSTD050;VSTD050;2;;ICV

Purge Volume: 5.0

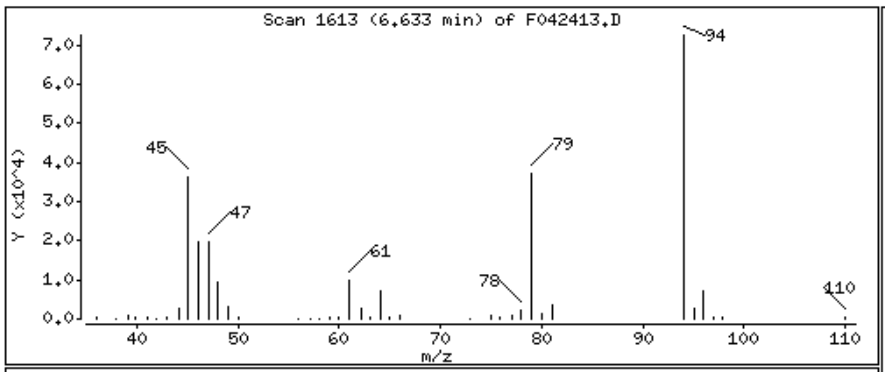
Operator: TS

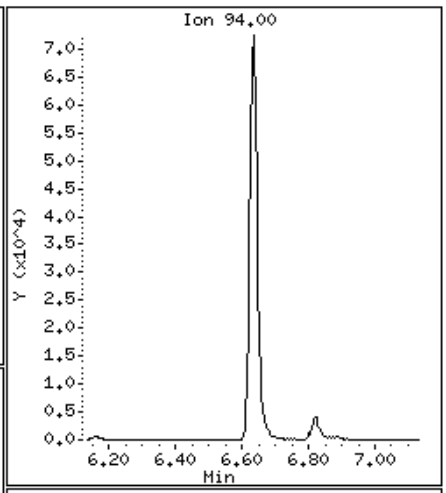
Column phase: DB624

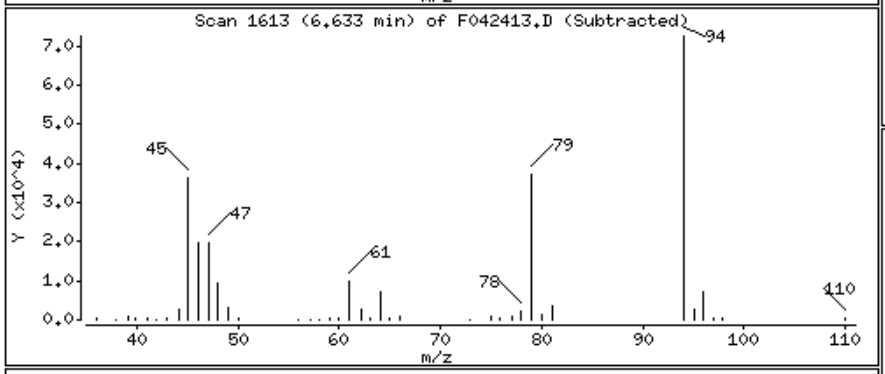
Column diameter: 0.18

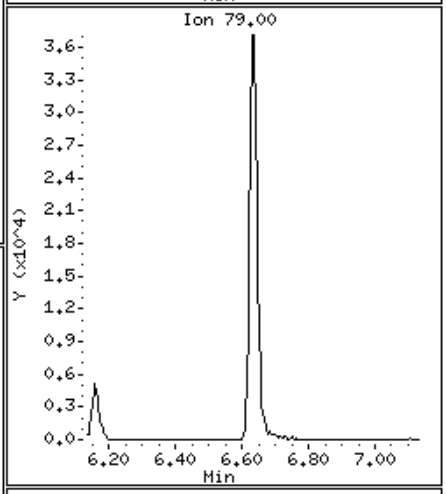
200 Dimethyl Disulfide

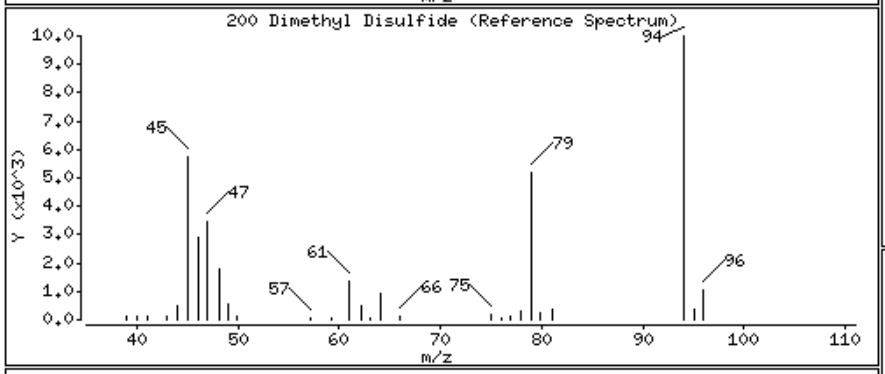
Concentration: 50.69 ug/l

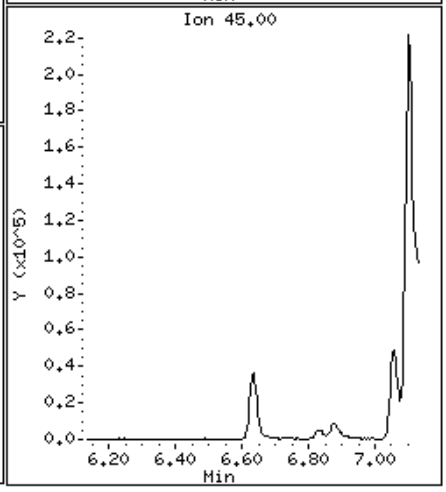


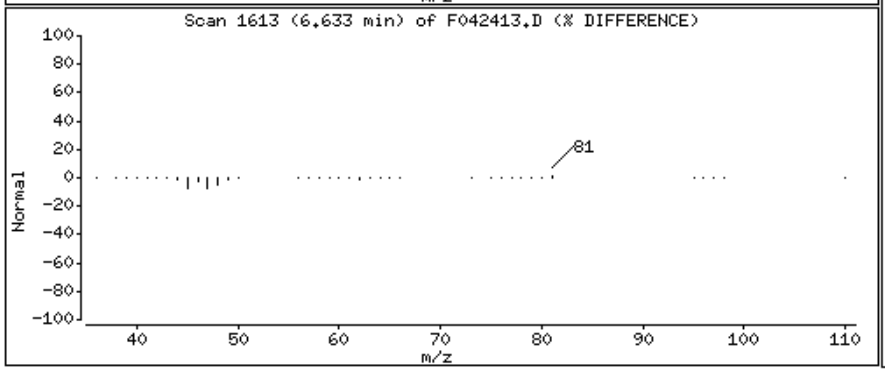












Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042417.D Page 1
Report Date: 05-Jun-2024 14:28

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042417.D
Lab Smp Id: VBLKW-240424 Client Smp ID: VBLKW-240424
Inj Date : 24-APR-2024 15:15
Operator : TS Inst ID: voa10.i
Smp Info : VBLKW-240424;VBLKW-240424;3;;BLANK
Misc Info : V10;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa9.i\U240424.b\8260C.m
Meth Date : 04-Jun-2024 11:27 r.patel Quant Type: ISTD
Cal Date : 19-APR-2024 18:12 Cal File: W041903.D
Als bottle: 17 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

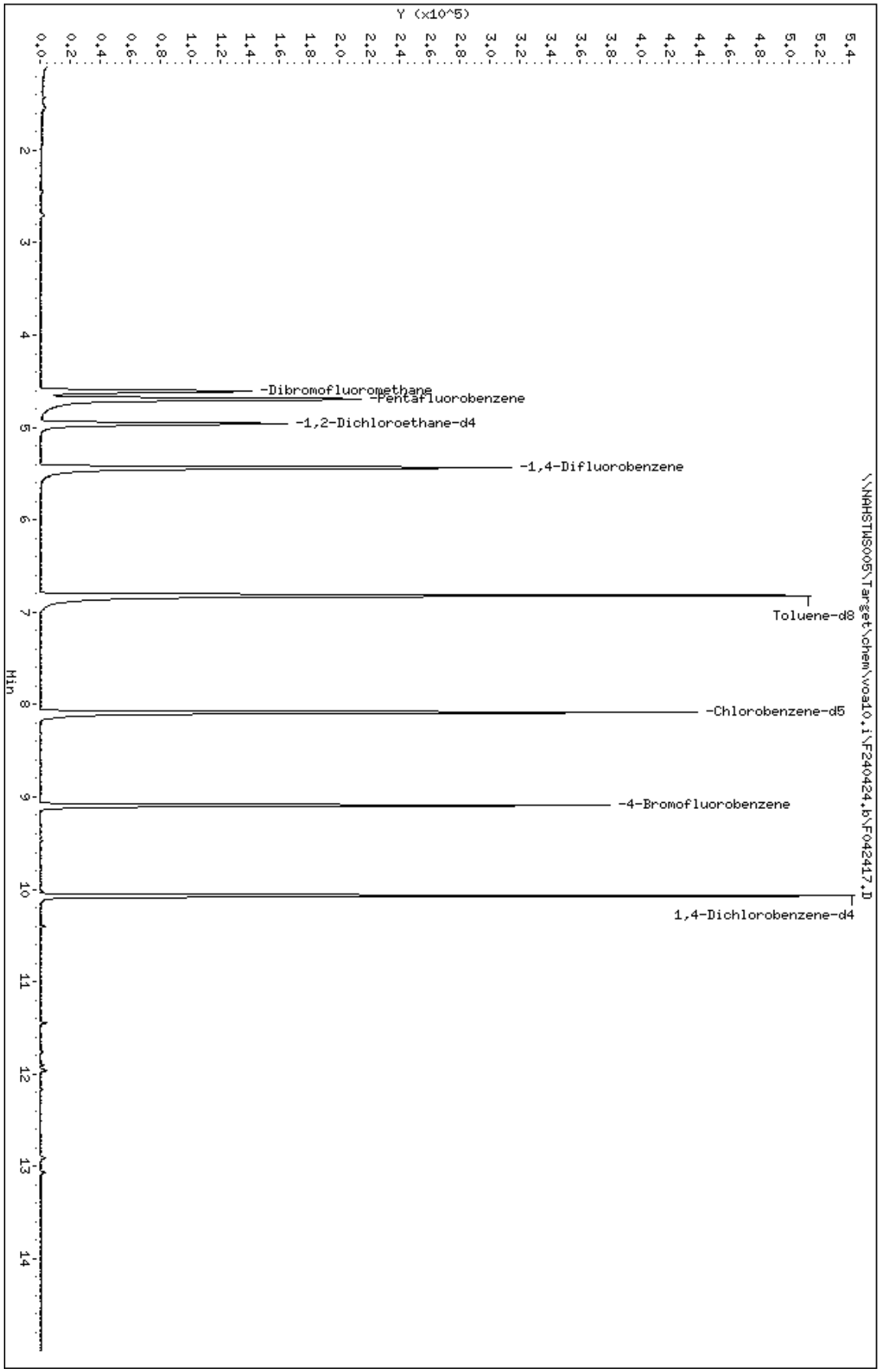
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.691	4.815	(1.000)	206002	50.0000	
$ 30 Dibromofluoromethane	113	4.609	4.744	(0.982)	89227	59.5349	59.53(RM)
$ 35 1,2-Dichloroethane-d4	65	4.961	5.097	(1.058)	116480	64.4832	64.48(R)
* 36 1,4-Difluorobenzene	114	5.437	5.550	(1.000)	282371	50.0000	
* 47 Chlorobenzene-d5	117	8.084	8.185	(1.000)	243643	50.0000	
$ 48 Toluene-d8	98	6.820	6.922	(0.844)	366325	76.6649	76.66(R)
$ 69 4-Bromofluorobenzene	95	9.092	9.194	(1.125)	106218	57.4139	57.41(R)
* 70 1,4-Dichlorobenzene-d4	152	10.070	10.169	(1.000)	130580	50.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.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Date : 24-APR-2024 15:15
Client ID: VBLKW-240424
Sample Info: VBLKW-240424;VBLKW-240424;3;;BLANK
Purge Volume: 5.0
Column phase: DB624
Instrument: voa10.i
Operator: TS
Column diameter: 0.18
Page 1
Y (x10^5)
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Toluene-d8
-Chlorobenzene-d5
-4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042417.D
Min

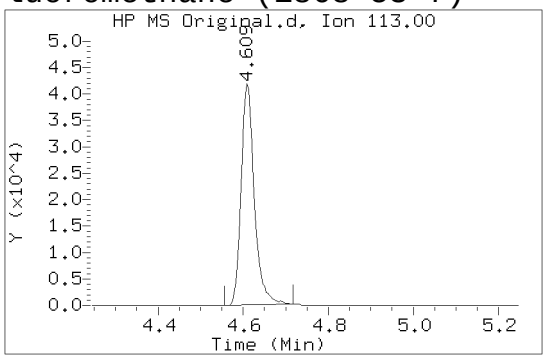
Data File : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042417.D
Inj Date : 24-APR-2024 15:15
InstruID : voa10.i
LabSampID : VBLKW-240424

Dibromofluoromethane (1868-53-7)

Reason Code:

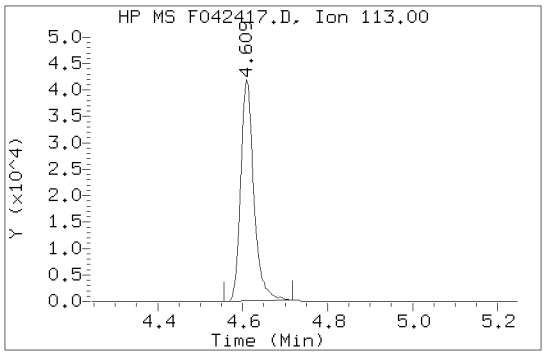
BEFORE

MASS
113
AREA
89227
HEIGHT
41864
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
113
AREA
89227
HEIGHT
41864
05-Jun-2024
14:28
rucha
patel



BEFORE

MASS
111
AREA
92766
HEIGHT
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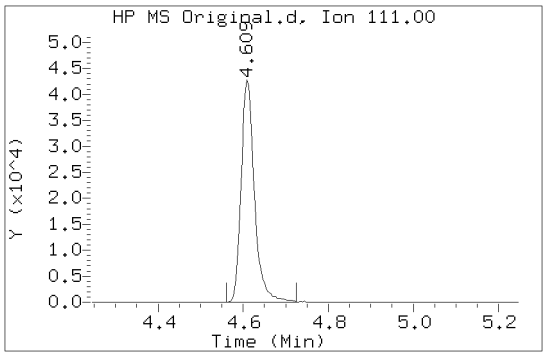
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
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AREA
92766
HEIGHT
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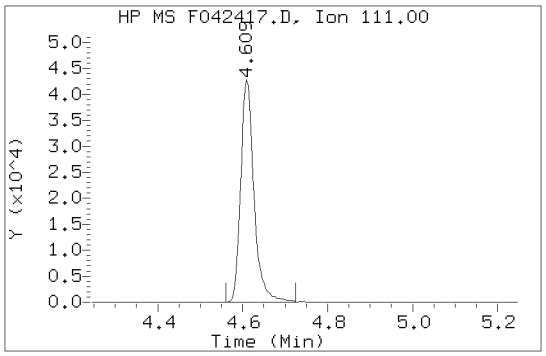
05-Jun-2024
14:28
rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042420.D Page 1
Report Date: 06-Jun-2024 10:29

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042420.D
Lab Smp Id: HS24041309-02
Inj Date : 24-APR-2024 16:18
Operator : TS   Inst ID: voa10.i
Smp Info : HS24041309-02;;;
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa9.i\U240424.b\8260C.m
Meth Date : 04-Jun-2024 11:27 r.patel   Quant Type: ISTD
Cal Date : 19-APR-2024 18:12   Cal File: W041903.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 02_STD_8260.sub
Target Version: 4.14
Processing Host: NAHSTW7056

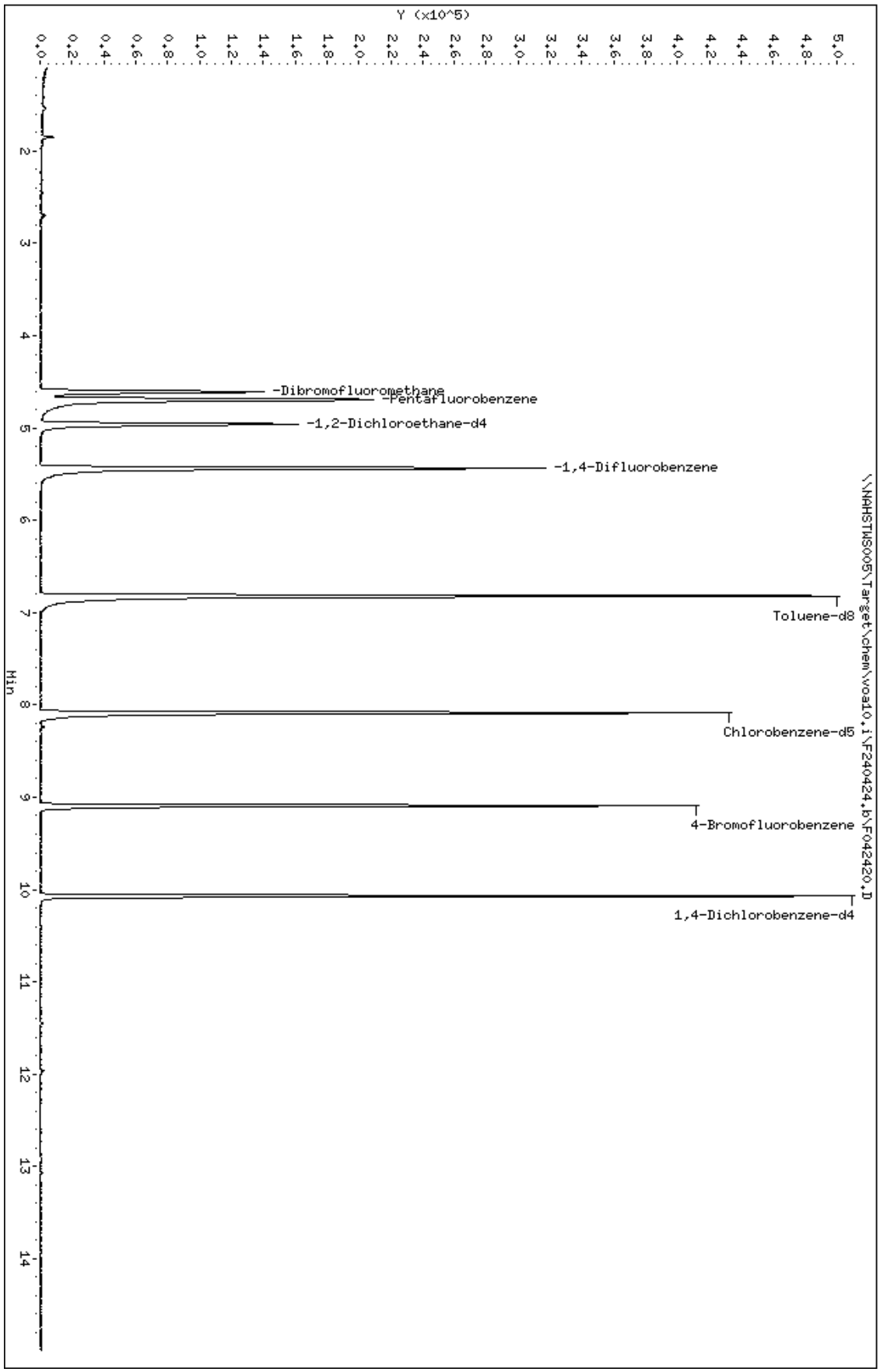
Concentration Formula: Amt * DF * (Uf/Vo)*1 * CpndVariable

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	4.695	4.815	(1.000)	203118	50.0000	
$ 30 Dibromofluoromethane	113	4.609	4.744	(0.982)	88793	60.0866	60.08(R)
$ 35 1,2-Dichloroethane-d4	65	4.961	5.097	(1.057)	115622	64.9170	64.91(R)
* 36 1,4-Difluorobenzene	114	5.437	5.550	(1.000)	279990	50.0000	
* 47 Chlorobenzene-d5	117	8.084	8.185	(1.000)	242977	50.0000	
$ 48 Toluene-d8	98	6.820	6.922	(0.844)	359904	75.4725	75.47(R)
$ 69 4-Bromofluorobenzene	95	9.092	9.194	(1.125)	121543	66.2299	66.22(R)
* 70 1,4-Dichlorobenzene-d4	152	10.070	10.169	(1.000)	123226	50.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.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Date : 24-APR-2024 16:18
Client ID:
Sample Info: HS24041309-02;;;
Purge Volume: 5.0
Column phase: DB624
Instrument: voa10.i
Operator: TS
Column diameter: 0.18
Page 1
Y (x10^5)
-Dibromofluoromethane
-Pentafluorobenzene
-1,2-Dichloroethane-d4
-1,4-Difluorobenzene
Toluene-d8
Chlorobenzene-d5
4-Bromofluorobenzene
1,4-Dichlorobenzene-d4
\\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042420.D
Min

Data File : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042420.D
Inj Date : 24-APR-2024 16:18
InstruID : voa10.i
LabSampID : HS24041309-02

NO MANUAL INTEGRATIONS

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042424.D Page 1
Report Date: 06-Jun-2024 10:29

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042424.D
Lab Smp Id: HS24041309-01
Inj Date : 24-APR-2024 17:42
Operator : TS   Inst ID: voa10.i
Smp Info : HS24041309-01;;;
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa10.i\F240424.b\8260W.m
Meth Date : 06-Jun-2024 10:28 r.patel   Quant Type: ISTD
Cal Date : 24-APR-2024 12:41   Cal File: F042410.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE   Compound Sublist: 02_STD_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

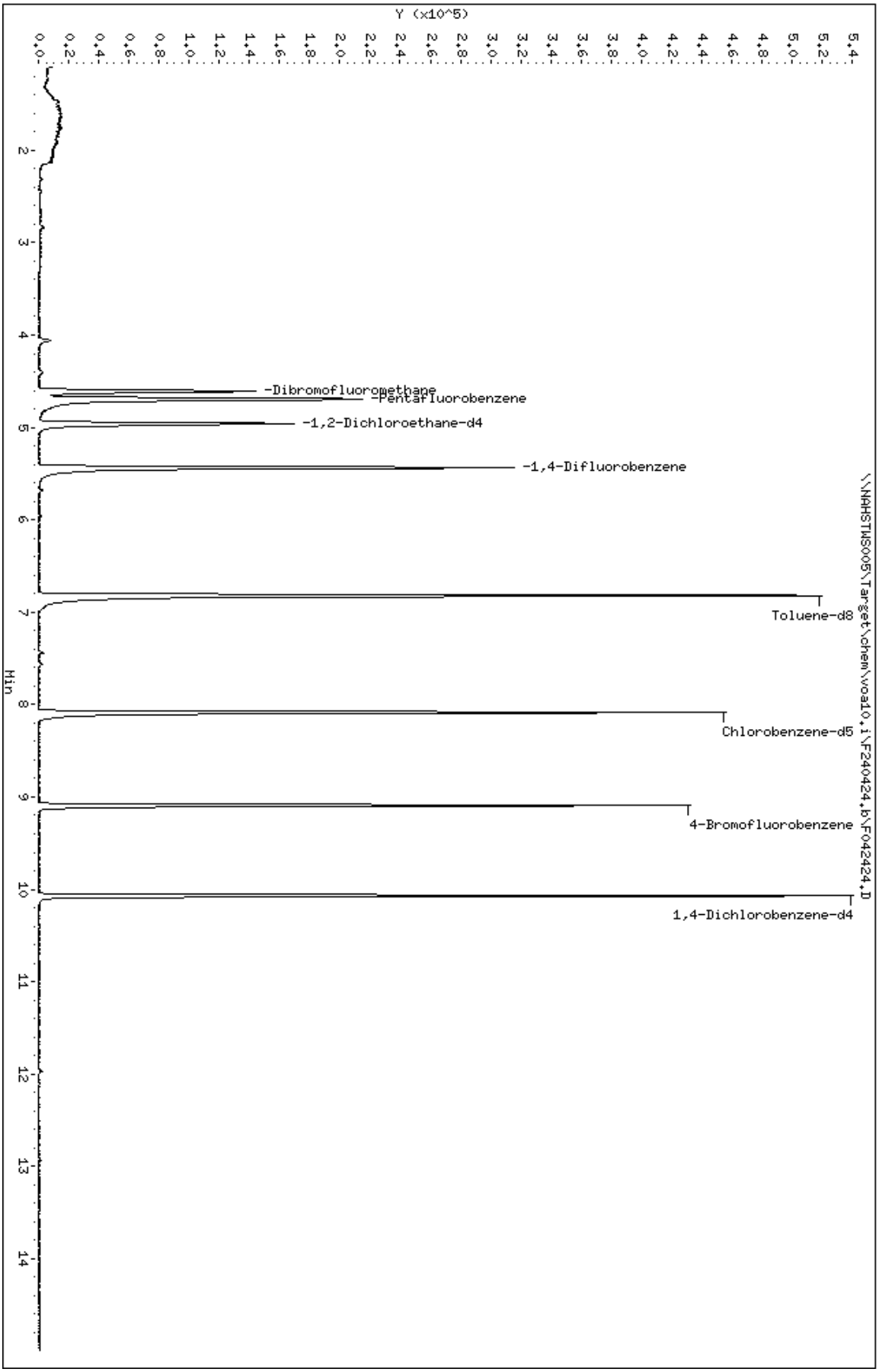
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
* 1 Pentafluorobenzene	168	4.695	4.691	(1.000)	202684	50.0000	
$ 30 Dibromofluoromethane	113	4.609	4.609	(0.982)	89161	58.8706	58.87(M)
$ 35 1,2-Dichloroethane-d4	65	4.961	4.961	(1.057)	117262	66.2842	66.28(R)
* 36 1,4-Difluorobenzene	114	5.437	5.433	(1.000)	276849	50.0000	
* 47 Chlorobenzene-d5	117	8.083	8.084	(1.000)	246082	50.0000	
$ 48 Toluene-d8	98	6.820	6.820	(0.844)	358659	55.9397	55.93(M)
$ 69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	120608	54.3693	54.36
* 70 1,4-Dichlorobenzene-d4	152	10.067	10.070	(1.000)	131986	50.0000	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042424.D
Date : 24-APR-2024 17:42
Client ID:
Sample Info: HS24041309-01;;;
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: TS
Column diameter: 0.18



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Inj Date : 24-APR-2024 17:42
InstruID : voa10.i
LabSampID : HS24041309-01

Toluene-d8 (2037-26-5)

Reason Code:

BEFORE

MASS
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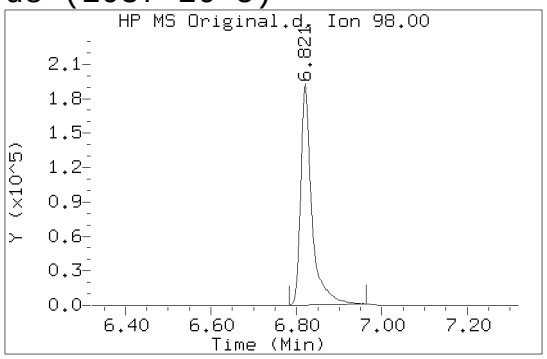
358659
HEIGHT
192844
06-Jun-2024
10:29
rucha
patel



AFTER

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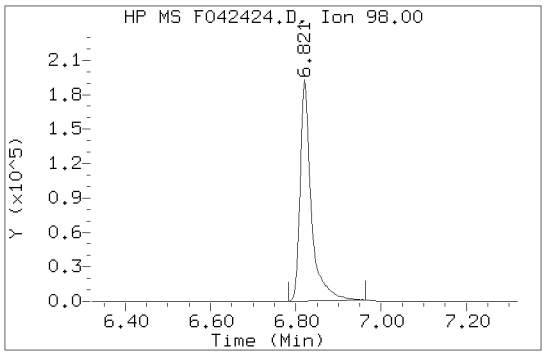

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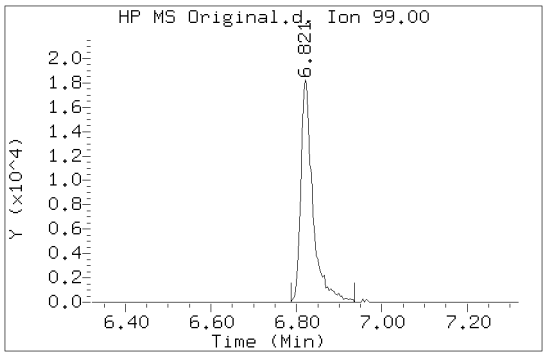

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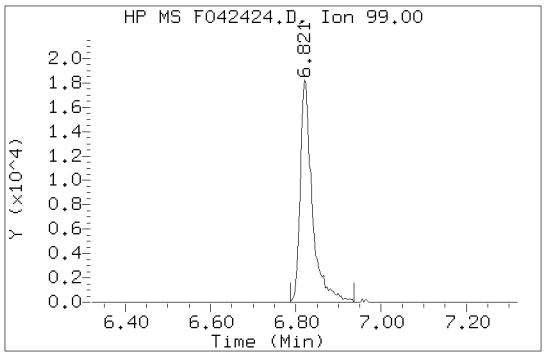

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06-Jun-2024
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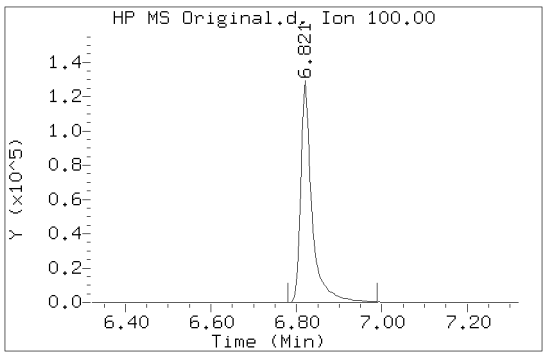

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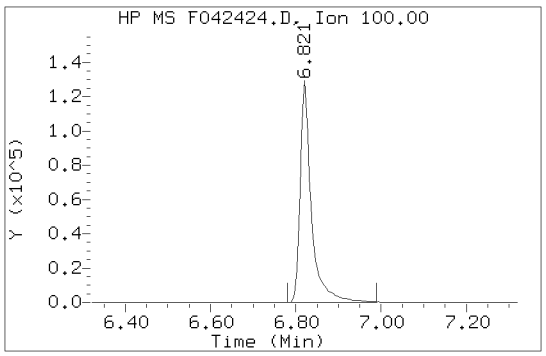

Dibromofluoromethane (1868-53-7)

Reason Code:

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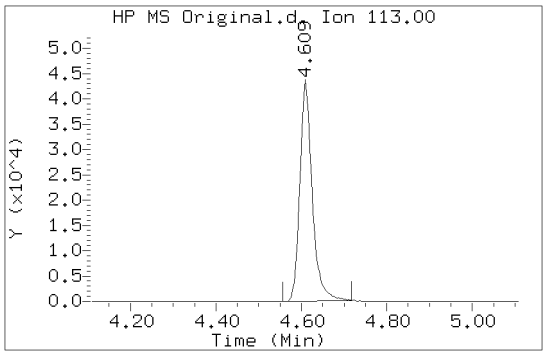
06-Jun-2024
10:29
rucha
patel



AFTER

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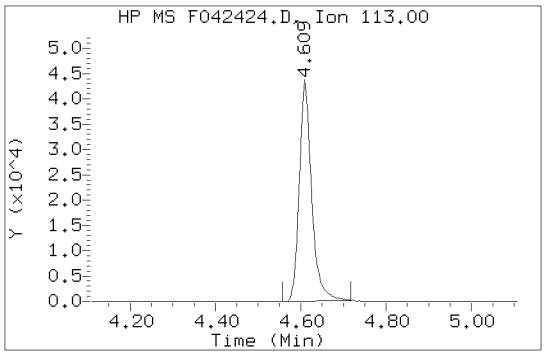

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Inj Date : 24-APR-2024 17:42
InstruID : voa10.i
LabSampID : HS24041309-01

Dibromofluoromethane (1868-53-7)

Reason Code:

BEFORE

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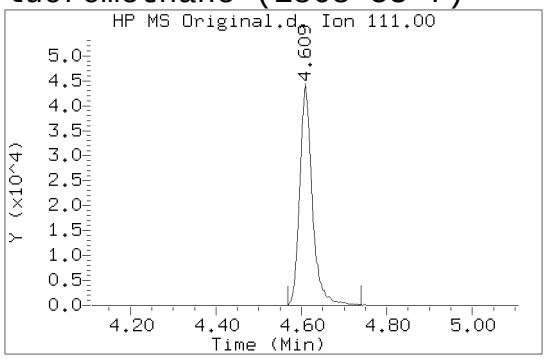
HEIGHT
44424
06-Jun-2024
10:29
rucha
patel



AFTER

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HEIGHT
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06-Jun-2024
10:29
rucha
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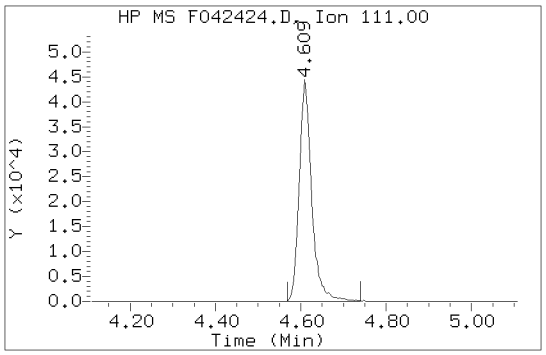


Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042438.D Page 1
Report Date: 05-Jun-2024 14:29

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042438.D
Lab Smp Id: LCS-240424 Client Smp ID: LCS-240424
Inj Date : 24-APR-2024 22:35
Operator : TS Inst ID: voa10.i
Smp Info : LCS-240424;LCS-240424;3;;LCS
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa10.i\F240424.b\8260W.m
Meth Date : 05-Jun-2024 14:26 r.patel Quant Type: ISTD
Cal Date : 24-APR-2024 12:41 Cal File: F042410.D
Als bottle: 38 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_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	4.691	4.695	(1.000)	198872	50.0000	
2 Dichlorodifluoromethane	85	1.149	1.149	(0.245)	24350	20.3792	20.37
3 Chloromethane	50	1.287	1.295	(0.274)	35431	20.7353	20.73
4 Propionitrile	54	4.151	4.151	(0.885)	57163	245.846	245.84(a)
5 Vinyl Chloride	62	1.351	1.351	(0.288)	35809	22.1712	22.17
6 Bromomethane	94	1.576	1.572	(0.336)	7270	12.0385	12.03
7 Chloroethane	64	1.658	1.655	(0.354)	26165	25.8579	25.85
8 Trichlorofluoromethane	101	1.850	1.850	(0.394)	45892	22.6167	22.61
9 Acrolein	56	3.165	3.169	(0.675)	20610	41.6189	41.61
10 Acetone	43	2.314	2.314	(0.493)	26646	50.5755	50.57
11 1,1-Dichloroethene	96	2.266	2.266	(0.483)	29232	21.4320	21.43
12 Isobutyl Alcohol	43	5.156	5.160	(1.099)	120288	500.487	500.48
13 Acetonitrile	39	2.588	2.584	(0.552)	56590	239.003	239.00
14 Allyl Chloride	41	2.584	2.584	(0.551)	78038	18.5990	18.59
15 Iodomethane	142	2.389	2.386	(0.509)	12200	15.5607	15.56
16 Acrylonitrile	53	2.933	2.933	(0.625)	27092	43.8989	43.89
17 Methylene Chloride	84	2.697	2.697	(0.575)	34721	21.9507	21.95
18 Methyl tert-butyl ether	73	2.978	2.978	(0.635)	94486	20.7336	20.73
19 Carbon Disulfide	76	2.446	2.449	(0.521)	183260	45.1148	45.11
20 trans-1,2-Dichloroethene	96	2.963	2.963	(0.632)	32056	23.2361	23.23

21 Vinyl Acetate	43	4.196	4.193 (0.895)	37572	42.5330	42.53(M)
22 1,1-Dichloroethane	63	3.394	3.394 (0.724)	64748	24.6485	24.64

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.499	3.495	(0.746)	52606	22.9077	22.90
	24 2-Butanone	43	4.095	4.095	(0.873)	33048	45.8700	45.86
	25 Methacrylonitrile	41	4.331	4.331	(0.923)	31662	22.8851	22.88
	26 2,2-Dichloropropane	77	4.057	4.054	(0.865)	42861	20.5523	20.55
	27 cis-1,2-Dichloroethene	96	4.057	4.058	(0.865)	35088	21.9907	21.99
	28 Chloroform	83	4.436	4.432	(0.946)	60480	23.4187	23.41
	29 Bromochloromethane	128	4.324	4.328	(0.922)	17199	21.2131	21.21
$	30 Dibromofluoromethane	113	4.609	4.609	(0.982)	90032	60.5852	60.58
	31 1,1,1-Trichloroethane	97	4.624	4.627	(0.986)	48740	21.6636	21.66
	32 1,1-Dichloropropene	75	4.807	4.807	(0.884)	46330	19.9969	19.99
	33 1,2-Dichloroethane	62	5.040	5.040	(0.927)	49232	22.6830	22.68
	34 Carbon Tetrachloride	117	4.803	4.804	(0.883)	38670	19.4396	19.43
$	35 1,2-Dichloroethane-d4	65	4.961	4.961	(1.058)	113294	65.2688	65.26(R)
*	36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	274803	50.0000	
	37 Benzene	78	5.017	5.021	(0.923)	141160	21.3103	21.31
	38 Trichloroethene	130	5.681	5.677	(1.045)	34508	18.4524	18.45
	39 Bromodichloromethane	83	6.157	6.157	(1.132)	42720	21.7189	21.71
	40 Methyl Methacrylate	41	6.041	6.041	(1.288)	39773	23.9763	23.97
	41 2-Chloroethylvinyl ether	63	6.442	6.442	(1.185)	1572	47.3535	47.35(M)
	42 1,2-Dichloropropane	63	5.891	5.433	(1.083)	38103	22.2841	22.28
	43 2-Nitropropane	43	6.374	6.378	(1.359)	10796	23.2834	23.28
	44 Dibromomethane	93	5.996	5.992	(1.103)	19725	20.8424	20.84
	45 4-Methyl-2-Pentanone	43	6.738	6.816	(0.834)	87647	47.0564	47.05
	46 cis-1,3-Dichloropropene	75	6.580	6.577	(1.210)	43862	20.4474	20.44
*	47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	241065	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	355940	56.6710	56.67
	49 Ethyl Methacrylate	69	7.188	6.824	(1.322)	57403	22.9339	22.93
	50 Toluene	91	6.876	6.880	(0.851)	144629	20.5200	20.52
	51 trans-1,3-Dichloropropene	75	7.083	7.083	(1.303)	33681	18.7874	18.78
	52 2-Hexanone	43	7.480	7.480	(0.925)	58179	42.3547	42.35
	53 1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	26508	21.1805	21.18
	54 1,3-Dichloropropane	76	7.386	7.386	(0.914)	54299	20.9736	20.97
	55 Dibromochloromethane	129	7.577	7.578	(0.937)	31188	19.6566	19.65
	56 Tetrachloroethene	164	7.364	7.364	(0.911)	27753	19.0459	19.04
	57 1,2-Dibromoethane	107	7.671	7.671	(0.949)	23947	19.2571	19.25
	58 1-Chlorohexane	55	8.102	8.087	(1.490)	35725	22.8200	22.82
	59 Chlorobenzene	112	8.106	8.106	(1.003)	89164	19.2421	19.24
	60 1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	29286	19.7237	19.72
	61 Ethylbenzene	106	8.211	8.211	(1.016)	45476	19.5695	19.56
	62 m,p-Xylenes	106	8.316	8.316	(1.029)	114279	39.1350	39.13
	63 o-Xylene	106	8.650	8.650	(1.070)	56001	19.2995	19.29
	64 Styrene	104	8.665	8.661	(1.072)	96087	20.2623	20.26
	66 Bromoform	173	8.807	8.811	(1.089)	21420	17.2245	17.22
	67 Isopropylbenzene	105	8.968	8.968	(1.109)	138156	20.2529	20.25
	68 1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	42737	21.2946	21.29
$	69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	115953	53.3566	53.35
*	70 1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	126387	50.0000	
	71 1,2,3-Trichloropropane	75	9.253	9.092	(0.919)	42448	21.0043	21.00
	72 trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	7334	20.7071	20.70
	73 n-Propylbenzene	91	9.317	9.321	(0.925)	159589	21.7285	21.72
	74 Bromobenzene	156	9.216	9.216	(0.915)	39845	18.9594	18.95
	75 1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	116460	20.6875	20.68

76	2-Chlorotoluene	91	9.384	9.384 (0.932)	100532	20.9654	20.96
77	4-Chlorotoluene	91	9.478	9.478 (0.941)	112588	20.6397	20.63

Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042438.D Page 3
Report Date: 05-Jun-2024 14:29

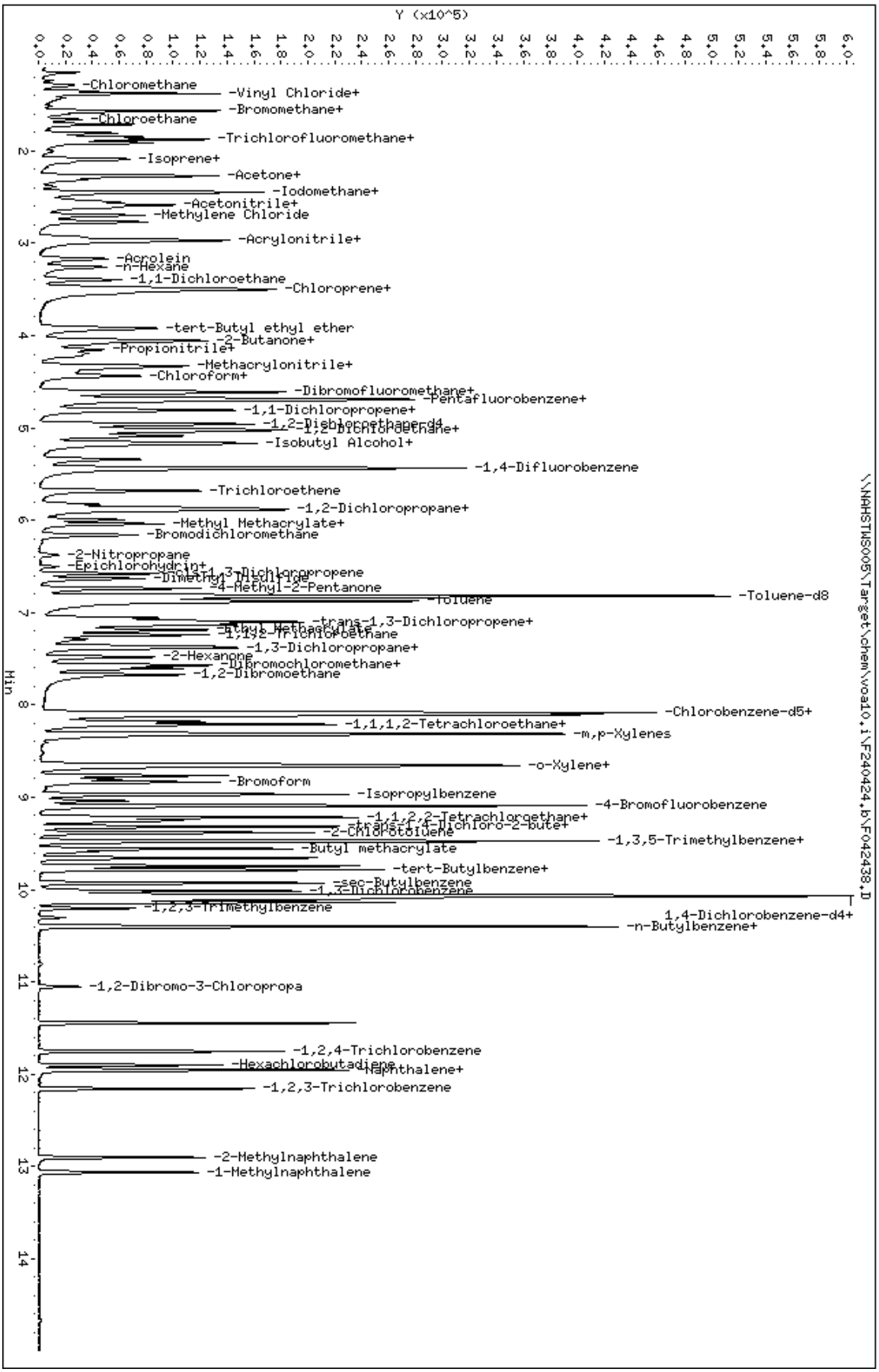
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
78	tert-Butylbenzene	119	9.744	10.055	(0.968)	96745	21.1793	21.17
79	1,2,4-Trimethylbenzene	105	9.785	9.786	(0.972)	116230	20.5516	20.55
81	sec-Butylbenzene	105	9.932	9.932	(0.986)	128736	21.5744	21.57
82	p-Isopropyltoluene	119	10.055	10.055	(0.999)	116287	20.8602	20.86
83	1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	69269	18.9434	18.94
84	1,4-Dichlorobenzene	146	10.089	10.085	(1.002)	71003	18.5322	18.53
87	n-Butylbenzene	91	10.400	10.400	(1.033)	103572	21.4739	21.47
88	1,2-Dichlorobenzene	146	10.400	10.085	(1.033)	68823	18.6688	18.66
89	1,2-Dibromo-3-Chloropropane	155	11.056	11.053	(1.098)	5670	18.8296	18.82
90	1,2,4-Trichlorobenzene	180	11.753	11.754	(1.167)	48695	18.0978	18.09
91	Hexachlorobutadiene	225	11.903	11.904	(1.182)	23219	16.7262	16.72
92	Naphthalene	128	11.956	11.960	(1.187)	114054	16.3358	16.33
93	1,2,3-Trichlorobenzene	180	12.158	12.158	(1.207)	44019	17.8925	17.89
135	1,4-Dioxane	88	6.041	6.041	(1.288)	9687	408.738	408.73(a)
130	Ethyl Acetate	43	4.196	4.193	(0.895)	44474	24.9175	24.91
136	n-Hexane	57	3.263	3.259	(0.696)	31920	20.6158	20.61
138	Freon TF	101	2.277	2.277	(0.485)	28618	21.1249	21.12
141	Cyclohexane	56	4.687	4.691	(0.999)	50930	23.0968	23.09
142	Tetrahydrofuran	42	4.399	4.395	(0.938)	14767	49.3403	49.34
146	Methyl Acetate	43	2.611	2.614	(0.557)	59322	24.5674	24.56
147	Methylcyclohexane	55	5.861	5.861	(1.078)	55607	21.3542	21.35
149	Isopropyl alcohol	45	2.453	2.449	(0.523)	55438	492.580	492.58
151	4-Methyl-2-pentanol	45	7.101	7.102	(1.306)	227420	363.360	363.35
156	Diisopropyl ether	45	3.503	3.507	(0.747)	134558	25.2850	25.28
158	Dichlorofluoromethane	67	1.805	1.805	(0.385)	58146	25.8742	25.87
166	1,2,3-Trimethylbenzene	105	10.138	10.142	(1.007)	116823	20.8774	20.87
160	2-Methylnaphthalene	142	12.901	12.904	(1.281)	50300	13.8007	13.80
180	1-Methylnaphthalene	142	13.062	13.062	(1.297)	48295	14.7692	14.76
174	tert-Amyl methyl ether	73	5.171	5.171	(1.102)	101268	22.4217	22.42
175	tert-Butyl ethyl ether	59	3.923	3.923	(0.836)	107512	23.1199	23.11
140	1,3-Butadiene	54	1.377	1.377	(0.294)	37921	23.5114	23.51
189	n-Butyl acetate	43	7.607	7.608	(0.941)	77073	25.2722	25.27
86	Benzyl Chloride	91	10.400	10.400	(1.287)	103572	20.6002	20.60
178	Ethylene oxide	44	1.565	1.572	(0.334)	124290	51.1753	51.17
182	Epichlorohydrin	57	6.502	6.502	(1.196)	10361	78.0167	78.01
185	Isoprene	39	2.097	2.097	(0.447)	12774	29.2248	29.22
150	Allyl alcohol	57	3.488	3.492	(0.744)	12011	387.160	387.16
162	Butyl acrylate	55	8.638	8.638	(1.069)	73972	19.5618	19.56
194	Acetaldehyde	44	1.430	1.426	(0.305)	17728	74.6505	74.65
131	Methyl Acrylate	55	4.222	4.219	(0.900)	33541	22.4035	22.40
133	Ethyl Acrylate	55	5.823	5.823	(1.241)	42169	22.6494	22.64
203	2-Ethylhexyl Acrylate	55	11.945	11.945	(1.186)	29971	15.0398	15.03(A)
204	2-Chloropropene	41	1.876	1.876	(0.400)	57525	28.2585	28.25(A)
163	Butyl methacrylate	41	9.557	9.557	(0.949)	57930	22.4268	22.42
167	Ethanol	45	2.007	2.007	(0.428)	10958	543.238	543.23
200	Dimethyl Disulfide	94	6.637	6.633	(0.821)	34601	15.8629	15.86
M 94	1,2-Dichloroethylene (total)	96				67144	45.2267	45.22
M 95	Xylenes (total)	106				170280	58.4346	58.43

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.

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



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Client ID: LCS-240424
Sample Info: LCS-240424;LCS-240424;3;;LCS
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10,i
Operator: TS
Column diameter: 0.18

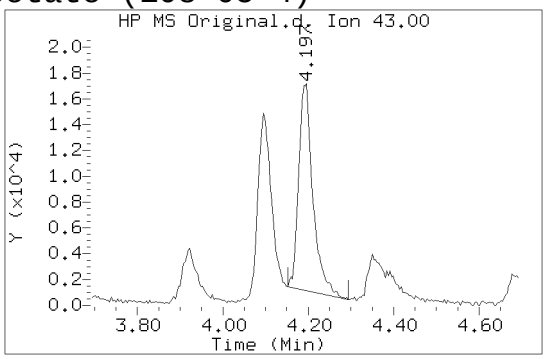
Data File : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042438.D
Inj Date : 24-APR-2024 22:35
InstruID : voa10.i
LabSampID : LCS-240424

Vinyl Acetate (108-05-4)

Reason Code:

BEFORE

MASS
43
AREA
37572
HEIGHT
16041
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
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AREA
37572
HEIGHT
16041
05-Jun-2024
14:28
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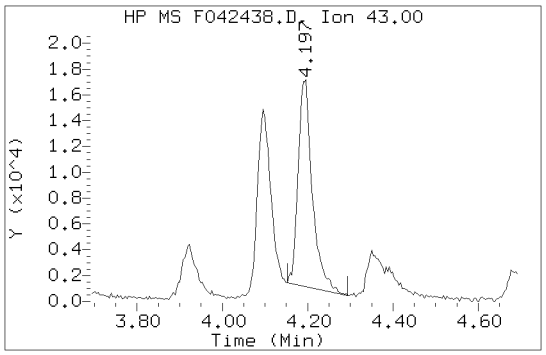
patel



BEFORE

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HEIGHT
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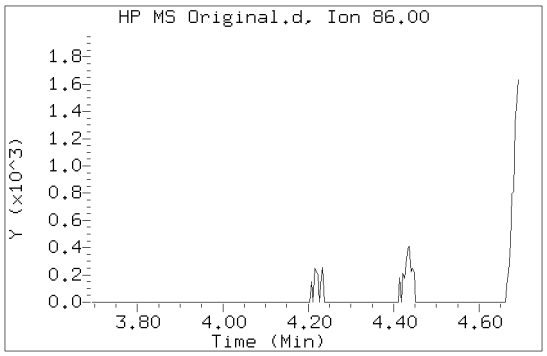
05-Jun-2024
14:28
rucha
patel



AFTER

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AREA
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05-Jun-2024
14:28
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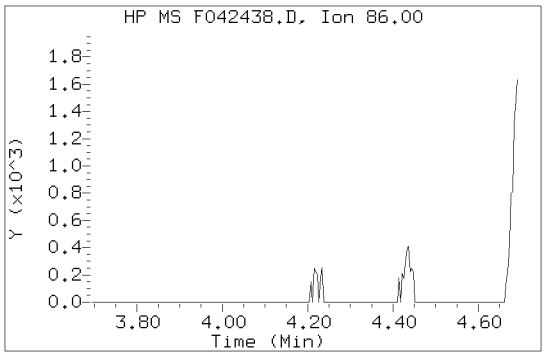

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

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AREA
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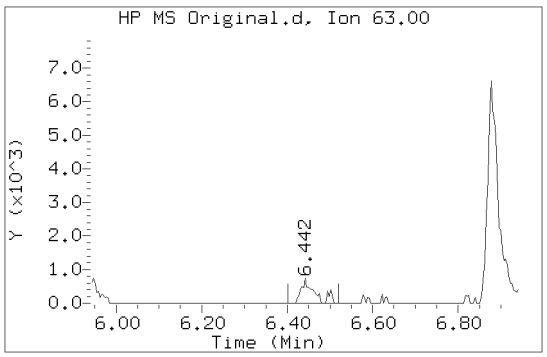
HEIGHT
739
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
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AREA
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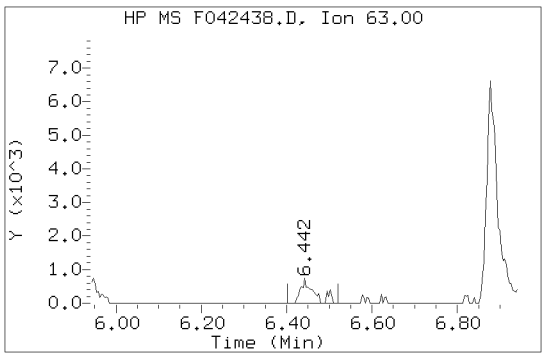
HEIGHT
739
05-Jun-2024
14:28
rucha
patel



BEFORE

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AREA
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05-Jun-2024
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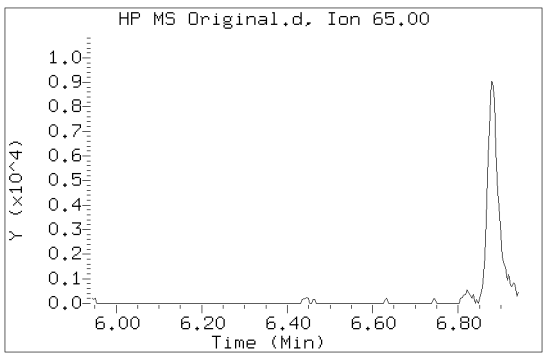
patel



AFTER

MASS
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AREA
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HEIGHT
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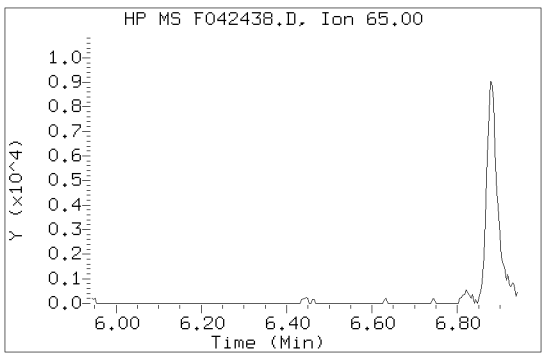
05-Jun-2024
14:28
rucha
patel



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Inj Date : 24-APR-2024 22:35
InstruID : voa10.i
LabSampID : LCS-240424

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

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AREA
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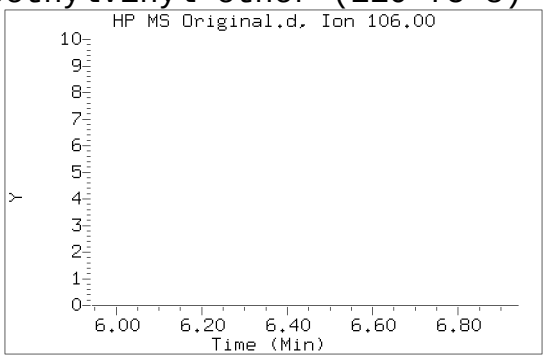
HEIGHT
0
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
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AREA
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HEIGHT
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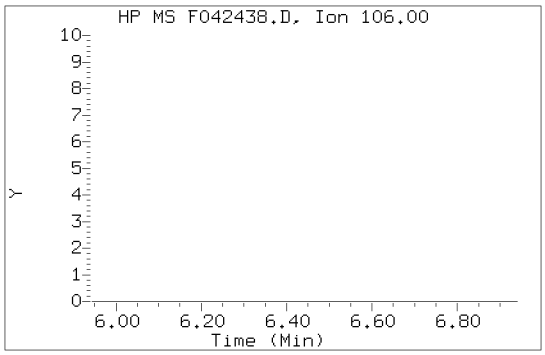
05-Jun-2024
14:28
rucha
patel



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042439.D Page 1
Report Date: 05-Jun-2024 14:29

ALS Laboratory Group

Data file : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042439.D
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Inj Date : 24-APR-2024 22:56
Operator : TS Inst ID: voa10.i
Smp Info : LCSD-240424;LCSD-240424;3;;LCSD
Misc Info : V10;WATER;0;1;
Comment   :
Method   : \\nahstws005\Target\chem\voa10.i\F240424.b\8260W.m
Meth Date : 05-Jun-2024 14:26 r.patel Quant Type: ISTD
Cal Date : 24-APR-2024 12:41 Cal File: F042410.D
Als bottle: 38 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_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	4.695	4.695	(1.000)	197245	50.0000	
2	Dichlorodifluoromethane	85	1.149	1.149	(0.245)	22599	19.1301	19.13
3	Chloromethane	50	1.287	1.295	(0.274)	35028	20.6685	20.66
4	Propionitrile	54	4.151	4.151	(0.884)	56604	245.450	245.44(a)
5	Vinyl Chloride	62	1.351	1.351	(0.288)	34173	21.3845	21.38
6	Bromomethane	94	1.576	1.572	(0.336)	6895	11.6461	11.64
7	Chloroethane	64	1.655	1.655	(0.353)	24653	24.5687	24.56
8	Trichlorofluoromethane	101	1.850	1.850	(0.394)	40751	20.3218	20.32
9	Acrolein	56	3.169	3.169	(0.675)	18993	39.1123	39.11
10	Acetone	43	2.311	2.314	(0.492)	26313	50.3360	50.33
11	1,1-Dichloroethene	96	2.266	2.266	(0.483)	26879	19.8938	19.89
12	Isobutyl Alcohol	43	5.160	5.160	(1.099)	123916	519.835	519.83
13	Acetonitrile	39	2.584	2.584	(0.551)	51211	218.109	218.10(M)
14	Allyl Chloride	41	2.581	2.584	(0.550)	74881	17.9938	17.99
15	Iodomethane	142	2.393	2.386	(0.510)	21784	22.4634	22.46(M)
16	Acrylonitrile	53	2.929	2.933	(0.624)	26960	44.0450	44.04
17	Methylene Chloride	84	2.697	2.697	(0.574)	33697	21.4661	21.46
18	Methyl tert-butyl ether	73	2.978	2.978	(0.634)	95296	21.0799	21.07
19	Carbon Disulfide	76	2.449	2.449	(0.522)	173875	43.1575	43.15
20	trans-1,2-Dichloroethene	96	2.967	2.963	(0.632)	30024	21.9427	21.94

21 Vinyl Acetate	43	4.193	4.193 (0.893)	38368	43.7924	43.79(M)
22 1,1-Dichloroethane	63	3.394	3.394 (0.723)	60375	23.1734	23.17

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)
	23 Chloroprene	53	3.499	3.495	(0.745)	49036	21.5709	21.57
	24 2-Butanone	43	4.099	4.095	(0.873)	34846	48.7645	48.76
	25 Methacrylonitrile	41	4.331	4.331	(0.923)	34062	24.8369	24.83(M)
	26 2,2-Dichloropropane	77	4.058	4.054	(0.864)	40578	19.6650	19.66
	27 cis-1,2-Dichloroethene	96	4.054	4.058	(0.863)	34168	21.5907	21.59
	28 Chloroform	83	4.432	4.432	(0.944)	57418	22.4164	22.41
	29 Bromochloromethane	128	4.331	4.328	(0.923)	16154	20.0217	20.02
$	30 Dibromofluoromethane	113	4.609	4.609	(0.982)	89380	60.6425	60.64
	31 1,1,1-Trichloroethane	97	4.624	4.627	(0.985)	46772	20.9791	20.97
	32 1,1-Dichloropropene	75	4.804	4.807	(0.883)	43696	19.0115	19.01
	33 1,2-Dichloroethane	62	5.040	5.040	(0.927)	49009	22.7616	22.76
	34 Carbon Tetrachloride	117	4.804	4.804	(0.883)	38569	19.5445	19.54
$	35 1,2-Dichloroethane-d4	65	4.961	4.961	(1.057)	117220	68.0876	68.08(R)
*	36 1,4-Difluorobenzene	114	5.437	5.437	(1.000)	272613	50.0000	
	37 Benzene	78	5.017	5.021	(0.923)	134139	20.4130	20.41
	38 Trichloroethene	130	5.677	5.677	(1.044)	32702	17.6272	17.62
	39 Bromodichloromethane	83	6.157	6.157	(1.132)	42670	21.8678	21.86
	40 Methyl Methacrylate	41	6.041	6.041	(1.287)	40101	24.3760	24.37
	41 2-Chloroethylvinyl ether	63	6.445	6.442	(1.185)	1470	46.1527	46.15(M)
	42 1,2-Dichloropropane	63	5.887	5.433	(1.083)	37891	22.3382	22.33
	43 2-Nitropropane	43	6.374	6.378	(1.358)	11123	24.0860	24.08
	44 Dibromomethane	93	5.996	5.992	(1.103)	19210	20.4613	20.46
	45 4-Methyl-2-Pentanone	43	6.738	6.816	(0.834)	89597	47.8635	47.86
	46 cis-1,3-Dichloropropene	75	6.580	6.577	(1.210)	42808	20.1164	20.11
*	47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	242273	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	357862	56.6930	56.69
	49 Ethyl Methacrylate	69	7.188	6.824	(1.322)	56040	22.5692	22.56
	50 Toluene	91	6.880	6.880	(0.851)	140304	19.8072	19.80
	51 trans-1,3-Dichloropropene	75	7.083	7.083	(1.303)	32849	18.5075	18.50
	52 2-Hexanone	43	7.480	7.480	(0.925)	60327	43.6302	43.63
	53 1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	26539	21.0996	21.09
	54 1,3-Dichloropropane	76	7.386	7.386	(0.914)	53799	20.6769	20.67
	55 Dibromochloromethane	129	7.578	7.578	(0.937)	31024	19.4557	19.45
	56 Tetrachloroethene	164	7.364	7.364	(0.911)	26461	18.0687	18.06
	57 1,2-Dibromoethane	107	7.671	7.671	(0.949)	22638	18.1137	18.11
	58 1-Chlorohexane	55	8.106	8.087	(1.491)	34034	21.9032	21.90
	59 Chlorobenzene	112	8.110	8.106	(1.003)	87392	18.7657	18.76
	60 1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	28903	19.3687	19.36
	61 Ethylbenzene	106	8.211	8.211	(1.016)	44920	19.2338	19.23
	62 m,p-Xylenes	106	8.316	8.316	(1.029)	110296	37.5827	37.58
	63 o-Xylene	106	8.650	8.650	(1.070)	54478	18.6810	18.68
	64 Styrene	104	8.665	8.661	(1.072)	93940	19.7108	19.71
	66 Bromoform	173	8.807	8.811	(1.089)	20888	16.7802	16.78
	67 Isopropylbenzene	105	8.968	8.968	(1.109)	134371	19.5999	19.59
	68 1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	43172	21.0951	21.09
$	69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	118089	54.0700	54.07
*	70 1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	128881	50.0000	
	71 1,2,3-Trichloropropane	75	9.253	9.092	(0.919)	42117	20.4372	20.43
	72 trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	7423	20.8424	20.84
	73 n-Propylbenzene	91	9.321	9.321	(0.926)	151355	20.2087	20.20
	74 Bromobenzene	156	9.216	9.216	(0.915)	38859	18.1324	18.13
	75 1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	111500	19.4231	19.42

76	2-Chlorotoluene	91	9.384	9.384 (0.932)	98549	20.1541	20.15
77	4-Chlorotoluene	91	9.478	9.478 (0.941)	110359	19.8396	19.83

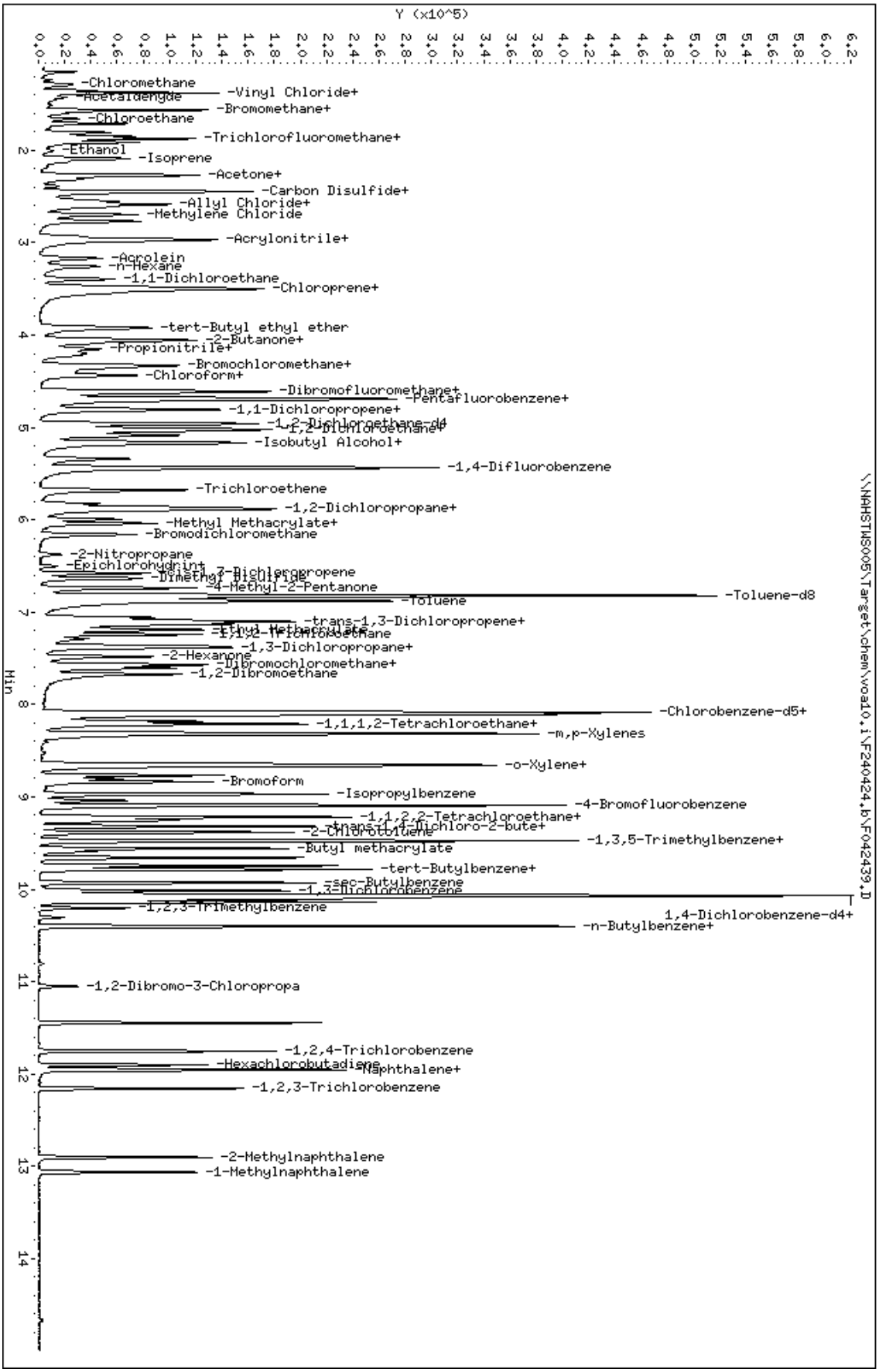
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)
	78 tert-Butylbenzene	119	9.744	10.055	(0.968)	93510	20.0750	20.07
	79 1,2,4-Trimethylbenzene	105	9.786	9.786	(0.972)	114209	19.8035	19.80
	81 sec-Butylbenzene	105	9.932	9.932	(0.986)	125328	20.5968	20.59
	82 p-Isopropyltoluene	119	10.055	10.055	(0.999)	110701	19.4738	19.47
	83 1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	68099	18.2630	18.26
	84 1,4-Dichlorobenzene	146	10.089	10.085	(1.002)	70319	17.9985	17.99
	87 n-Butylbenzene	91	10.400	10.400	(1.033)	100151	20.3628	20.36
	88 1,2-Dichlorobenzene	146	10.404	10.085	(1.033)	67222	17.8817	17.88
	89 1,2-Dibromo-3-Chloropropane	155	11.053	11.053	(1.098)	5510	18.0029	18.00
	90 1,2,4-Trichlorobenzene	180	11.754	11.754	(1.167)	48554	17.6962	17.69
	91 Hexachlorobutadiene	225	11.904	11.904	(1.182)	23167	16.3795	16.37
	92 Naphthalene	128	11.956	11.960	(1.187)	116672	16.3898	16.38
	93 1,2,3-Trichlorobenzene	180	12.158	12.158	(1.207)	43765	17.4450	17.44
	135 1,4-Dioxane	88	6.041	6.041	(1.287)	9123	389.058	389.05(a)
	130 Ethyl Acetate	43	4.193	4.193	(0.893)	43375	24.5022	24.50
	136 n-Hexane	57	3.263	3.259	(0.695)	29422	19.3027	19.30
	138 Freon TF	101	2.277	2.277	(0.485)	25926	19.3853	19.38
	141 Cyclohexane	56	4.684	4.691	(0.998)	47631	21.7648	21.76
	142 Tetrahydrofuran	42	4.399	4.395	(0.937)	15794	53.2071	53.20
	146 Methyl Acetate	43	2.611	2.614	(0.556)	61541	25.6966	25.69
	147 Methylcyclohexane	55	5.861	5.861	(1.078)	54199	20.9859	20.98
	149 Isopropyl alcohol	45	2.449	2.449	(0.522)	57197	512.401	512.40
	151 4-Methyl-2-pentanol	45	7.105	7.102	(1.307)	232670	373.431	373.43
	156 Diisopropyl ether	45	3.507	3.507	(0.747)	133020	25.2022	25.20
	158 Dichlorofluoromethane	67	1.808	1.805	(0.385)	56572	25.3814	25.38
	166 1,2,3-Trimethylbenzene	105	10.138	10.142	(1.007)	114417	20.0517	20.05
	160 2-Methylnaphthalene	142	12.901	12.904	(1.281)	55831	14.8231	14.82
	180 1-Methylnaphthalene	142	13.062	13.062	(1.297)	50155	15.0128	15.01
	174 tert-Amyl methyl ether	73	5.171	5.171	(1.101)	97407	21.7447	21.74
	175 tert-Butyl ethyl ether	59	3.919	3.923	(0.835)	103904	22.5284	22.52
	140 1,3-Butadiene	54	1.377	1.377	(0.293)	37494	23.4422	23.44
	189 n-Butyl acetate	43	7.608	7.608	(0.941)	86331	28.1667	28.16
	86 Benzyl Chloride	91	10.400	10.400	(1.287)	100151	19.8205	19.82
	178 Ethylene oxide	44	1.565	1.572	(0.333)	120403	49.9838	49.98
	182 Epichlorohydrin	57	6.502	6.502	(1.196)	10066	76.5250	76.52
	185 Isoprene	39	2.097	2.097	(0.447)	12515	28.8839	28.88
	150 Allyl alcohol	57	3.499	3.492	(0.745)	12467	402.263	402.26
	162 Butyl acrylate	55	8.638	8.638	(1.069)	75299	19.7788	19.77
	194 Acetaldehyde	44	1.430	1.426	(0.305)	24888	109.351	109.35
	131 Methyl Acrylate	55	4.223	4.219	(0.899)	34324	23.1082	23.10
	133 Ethyl Acrylate	55	5.819	5.823	(1.240)	42484	23.0068	23.00
	203 2-Ethylhexyl Acrylate	55	11.945	11.945	(1.186)	32563	15.8738	15.87(A)
	204 2-Chloropropene	41	1.876	1.876	(0.400)	52861	26.1169	26.11(A)
	163 Butyl methacrylate	41	9.557	9.557	(0.949)	59804	22.6909	22.69
	167 Ethanol	45	2.007	2.007	(0.428)	10610	530.123	530.12
	200 Dimethyl Disulfide	94	6.633	6.633	(0.821)	36512	16.5411	16.54
M	94 1,2-Dichloroethylene (total)	96				64192	43.5334	43.53
M	95 Xylenes (total)	106				164774	56.2638	56.26

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.

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.



Data File: \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042439.D
Date : 24-APR-2024 22:56
Client ID: LCSD-240424
Sample Info: LCSD-240424;LCSD-240424;3;;LCSD
Purge Volume: 5.0
Column phase: DB624

Instrument: voa10.i
Operator: TS
Column diameter: 0.18

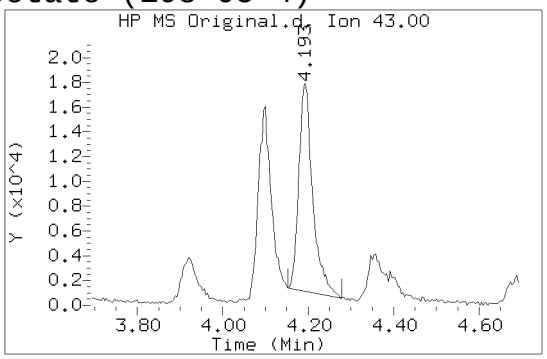
Data File : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042439.D
Inj Date : 24-APR-2024 22:56
InstruID : voa10.i
LabSampID : LCSD-240424

Vinyl Acetate (108-05-4)

Reason Code:

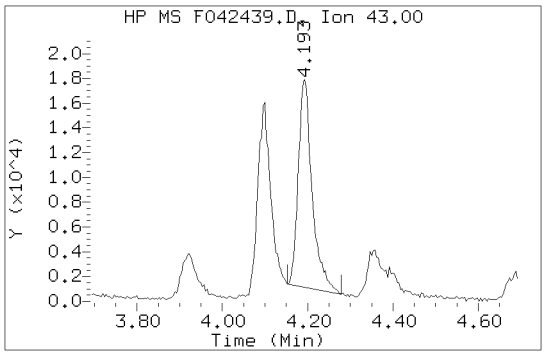
BEFORE

MASS
43
AREA
38368
HEIGHT
16770
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
43
AREA
38368
HEIGHT
16770
05-Jun-2024
14:28
rucha
patel



BEFORE

MASS
86
AREA
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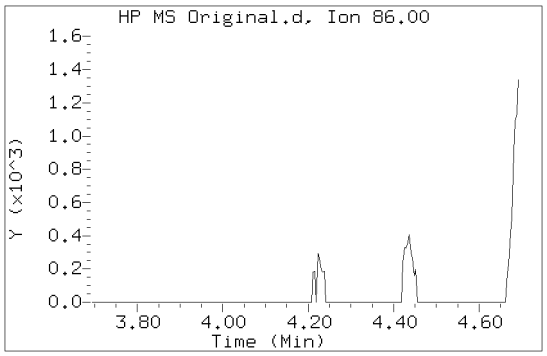
HEIGHT
0
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
86
AREA
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HEIGHT
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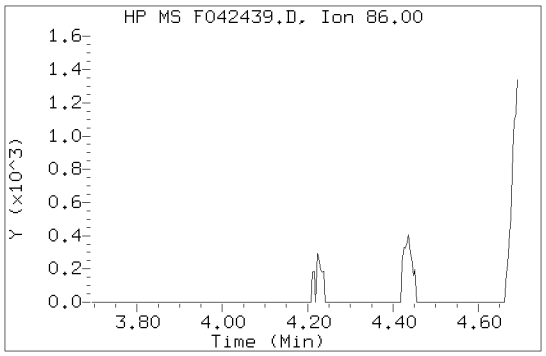
05-Jun-2024
14:28
rucha
patel



2-Chloroethylvinyl ether (110-75-8)

Reason Code:

BEFORE

MASS
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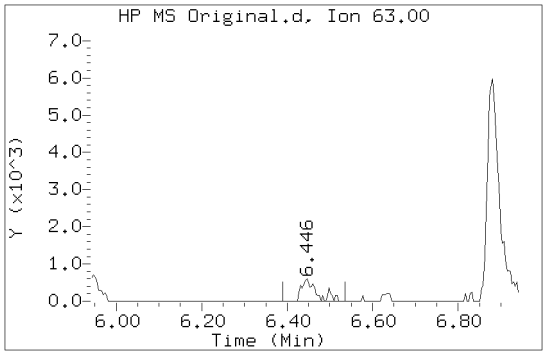
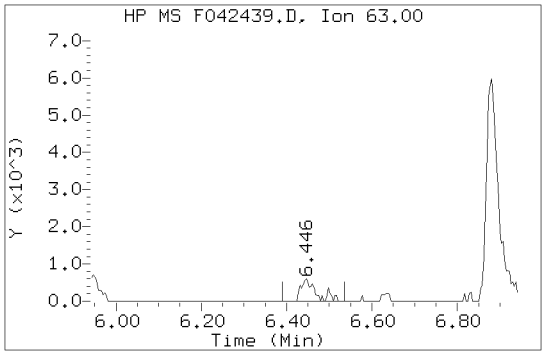
AREA
1470
HEIGHT
598
05-Jun-2024
14:28
rucha
patel



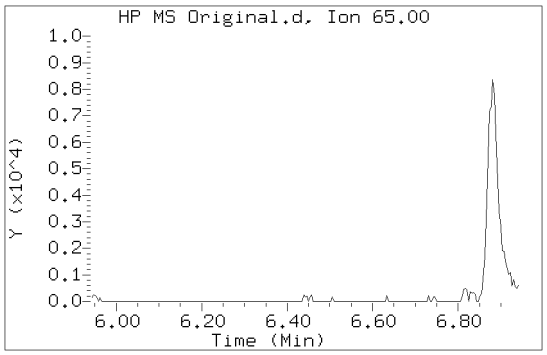
AFTER

MASS
63
AREA
1470
HEIGHT
598
05-Jun-2024
14:28
rucha
patel



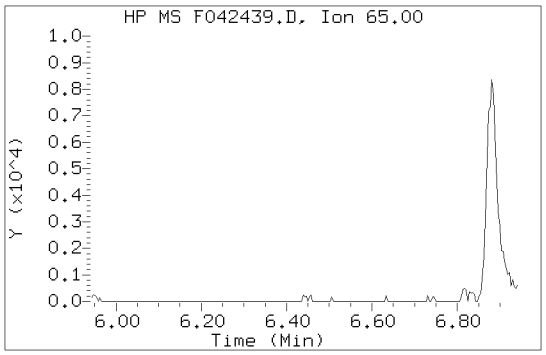
BEFORE

MASS
65
AREA
0
HEIGHT
0
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
65
AREA
0
HEIGHT
0
05-Jun-2024
14:28
rucha
patel



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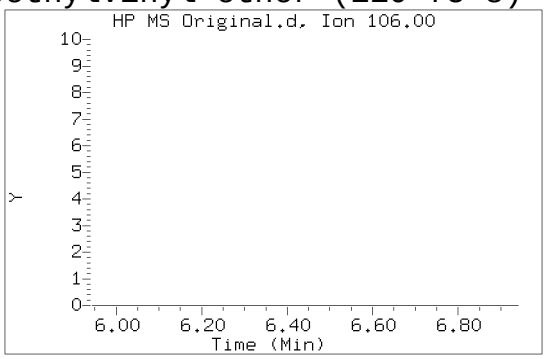
Inj Date : 24-APR-2024 22:56
InstruID : voa10.i
LabSampID : LCSD-240424

2-Chloroethylvinyl ether (110-75-8)

Reason Code:

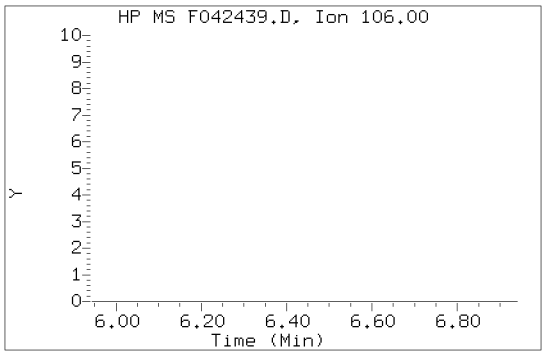
BEFORE

MASS
106
AREA
0
HEIGHT
0
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
106
AREA
0
HEIGHT
0
05-Jun-2024
14:28
rucha
patel

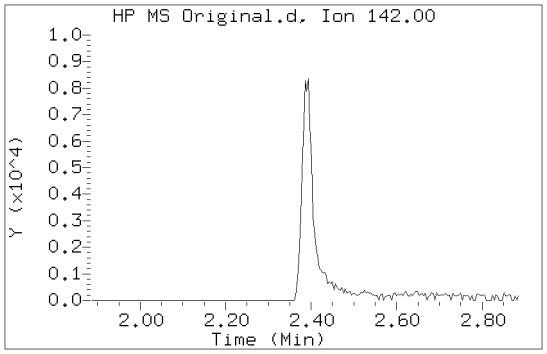


Iodomethane (74-88-4)

Reason Code:

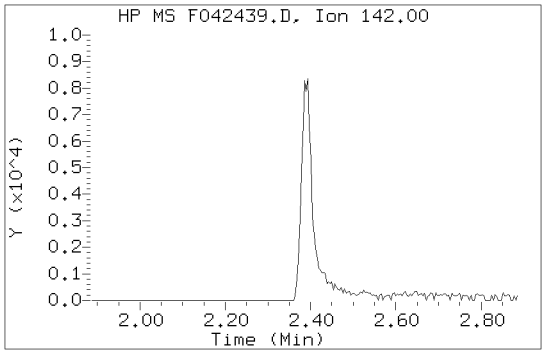
BEFORE

MASS
142
AREA
21784
HEIGHT
8351
05-Jun-2024
14:28
rucha
patel



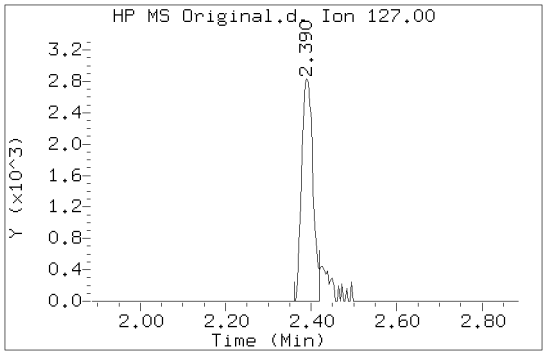
AFTER

MASS
142
AREA
21784
HEIGHT
8351
05-Jun-2024
14:28
rucha
patel



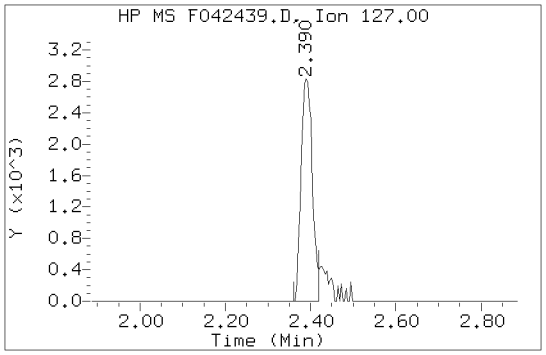
BEFORE

MASS
127
AREA
5336
HEIGHT
2831
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
127
AREA
5336
HEIGHT
2831
05-Jun-2024
14:28
rucha
patel



BEFORE

MASS
141
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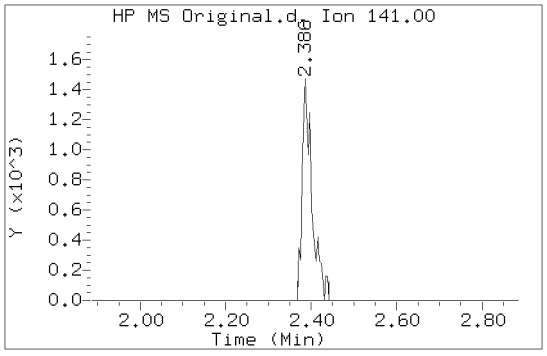
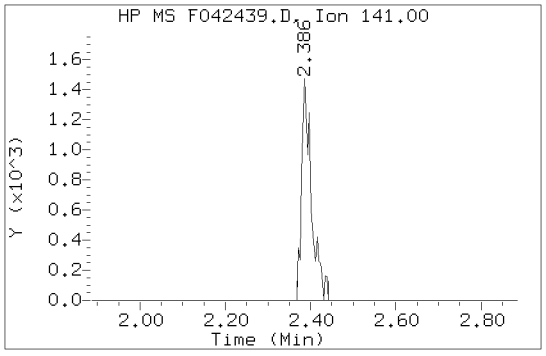
2420
HEIGHT
1473
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
141
AREA
2420
HEIGHT
1473
05-Jun-2024
14:28
rucha
patel



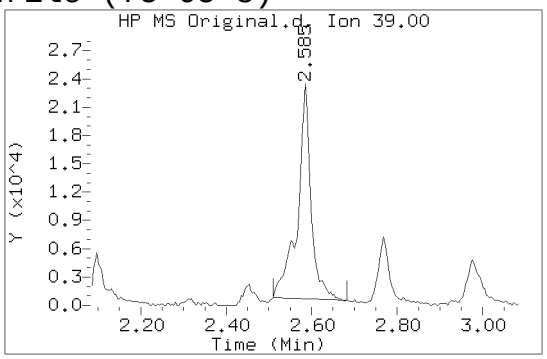
Data File : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042439.D
Inj Date : 24-APR-2024 22:56
InstruID : voa10.i
LabSampID : LCSD-240424

Acetonitrile (75-05-8)

Reason Code:

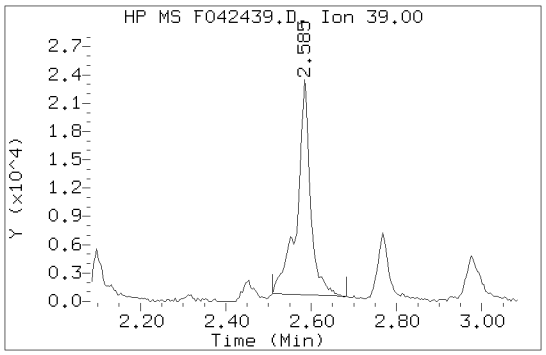
BEFORE

MASS
39
AREA
51211
HEIGHT
22800
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
39
AREA
51211
HEIGHT
22800
05-Jun-2024
14:28
rucha
patel



BEFORE

MASS
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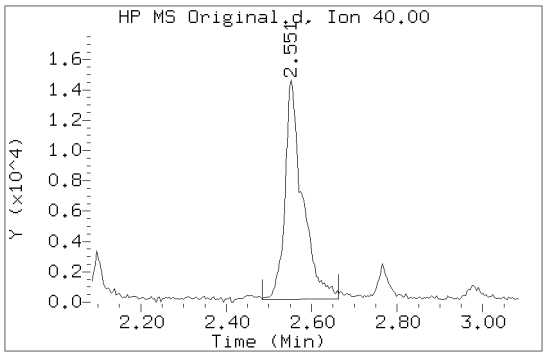
AREA
41623
HEIGHT
14474
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
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AREA
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HEIGHT
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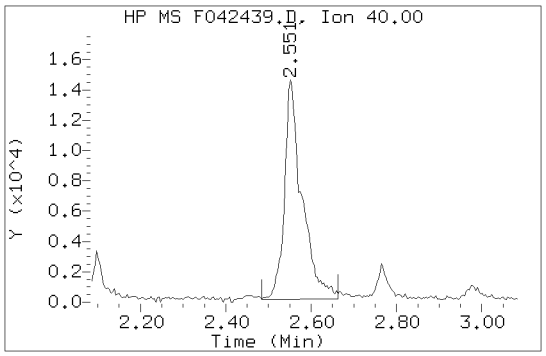
05-Jun-2024
14:28
rucha
patel



Methacrylonitrile (126-98-7)

Reason Code:

BEFORE

MASS
41
AREA
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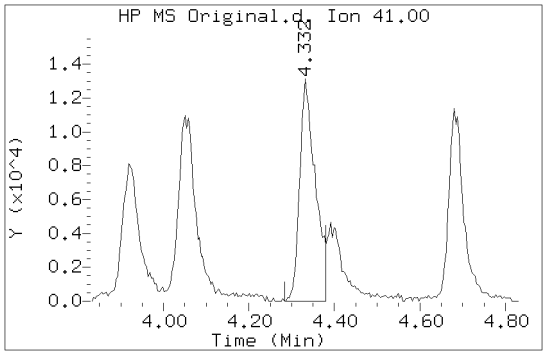
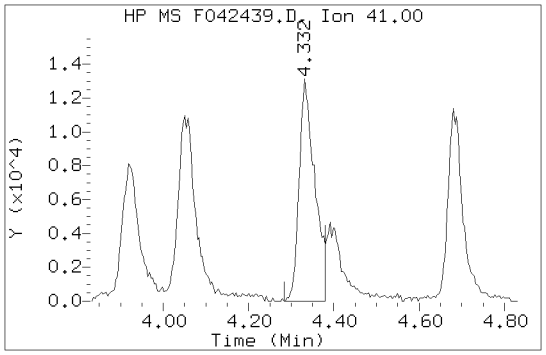
HEIGHT
13129
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
41
AREA
34062
HEIGHT
13129
05-Jun-2024
14:28
rucha
patel



BEFORE

MASS
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AREA
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HEIGHT
6775
05-Jun-2024
14:28
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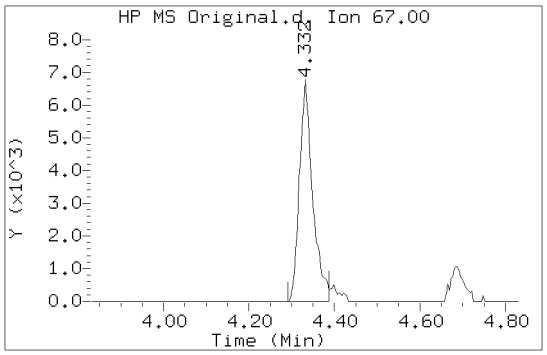
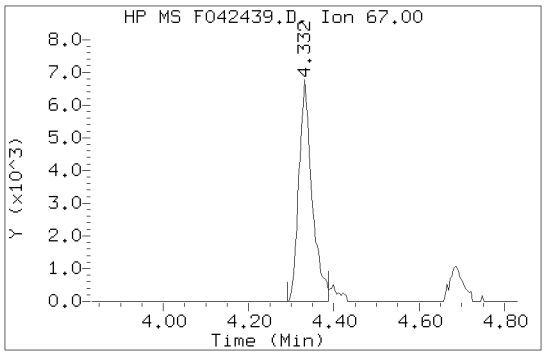
patel



AFTER

MASS
67
AREA
14707
HEIGHT
6775
05-Jun-2024
14:28
rucha
patel



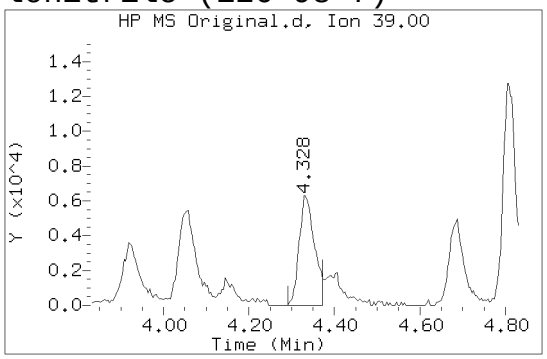
Data File : \\NAHSTWS005\Target\chem\voa10.i\F240424.b\F042439.D
Inj Date : 24-APR-2024 22:56
InstruID : voa10.i
LabSampID : LCSD-240424

Methacrylonitrile (126-98-7)

Reason Code:

BEFORE

MASS
39
AREA
16078
HEIGHT
6289
05-Jun-2024
14:28
rucha
patel



AFTER

MASS
39
AREA
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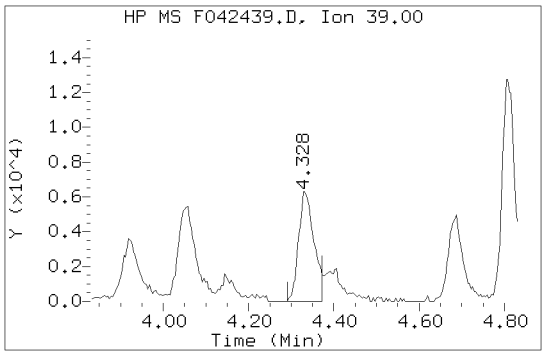
HEIGHT
6289
05-Jun-2024
14:28
rucha
patel



Data File: \\nahstws005\Target\chem\voa10.i\F240424.b\F042440.D Page 1
Report Date: 06-Jun-2024 10:51

ALS Laboratory Group

Data file : \\nahstws005\Target\chem\voa10.i\F240424.b\F042440.D
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 24-APR-2024 23:17
Operator : TS Inst ID: voa10.i
Smp Info : VSTD050;VSTD050;2;;CCV
Misc Info : V10;WATER;0;1;
Comment :
Method : \\nahstws005\Target\chem\voa10.i\F240424.b\8260W.m
Meth Date : 06-Jun-2024 10:28 r.patel Quant Type: ISTD
Cal Date : 24-APR-2024 12:41 Cal File: F042410.D
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 02_STD_8260.sub
Target Version: 4.14

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	4.691	4.691	(1.000)	203031	50.0000	
2 Dichlorodifluoromethane	85	1.149	1.149	(0.245)	60460	50.0000	48.21
3 Chloromethane	50	1.295	1.295	(0.276)	86028	50.0000	49.31
4 Propionitrile	54	4.151	4.151	(0.885)	150408	500.000	633.62
5 Vinyl Chloride	62	1.351	1.351	(0.288)	84564	50.0000	49.48
6 Bromomethane	94	1.572	1.572	(0.335)	21541	50.0000	29.09(M)
7 Chloroethane	64	1.655	1.655	(0.353)	57093	50.0000	55.17
8 Trichlorofluoromethane	101	1.850	1.850	(0.394)	102380	50.0000	48.59
9 Acrolein	56	3.169	3.169	(0.676)	51446	100.000	92.73
10 Acetone	43	2.314	2.314	(0.493)	66403	100.000	129.86
11 1,1-Dichloroethene	96	2.266	2.266	(0.483)	66928	50.0000	47.64
12 Isobutyl Alcohol	43	5.160	5.160	(1.100)	306179	1000.00	1247.83
13 Acetonitrile	39	2.584	2.584	(0.551)	129601	500.000	535.58
14 Allyl Chloride	41	2.584	2.584	(0.551)	206937	50.0000	48.30
15 Iodomethane	142	2.386	2.386	(0.509)	69252	100.000	54.89(M)
16 Acrylonitrile	53	2.933	2.933	(0.625)	77501	100.000	123.54
17 Methylene Chloride	84	2.697	2.697	(0.575)	77187	50.0000	48.50
18 Methyl tert-butyl ether	73	2.978	2.978	(0.635)	265864	50.0000	56.71
19 Carbon Disulfide	76	2.449	2.449	(0.522)	419596	100.000	101.17
20 trans-1,2-Dichloroethene	96	2.963	2.963	(0.632)	71005	50.0000	50.41
21 Vinyl Acetate	43	4.193	4.193	(0.894)	110789	100.000	122.84

22 1,1-Dichloroethane	63	3.394	3.394 (0.724)	143418	50.0000	53.47
23 Chloroprene	53	3.495	3.495 (0.745)	125710	50.0000	52.69

Data File: \\nahstws005\Target\chem\voa10.i\F240424.b\F042440.D Page 2
Report Date: 06-Jun-2024 10:51

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)
	24 2-Butanone	43	4.095	4.095	(0.873)	86082	100.000	117.03
	25 Methacrylonitrile	41	4.331	4.331	(0.923)	91581	50.0000	65.14
	26 2,2-Dichloropropane	77	4.054	4.054	(0.864)	91810	50.0000	41.98
	27 cis-1,2-Dichloroethene	96	4.058	4.058	(0.865)	79426	50.0000	48.75
	28 Chloroform	83	4.432	4.432	(0.945)	133388	50.0000	50.59
	29 Bromochloromethane	128	4.328	4.328	(0.922)	38145	50.0000	47.56
$	30 Dibromofluoromethane	113	4.609	4.609	(0.982)	87890	50.0000	57.93
	31 1,1,1-Trichloroethane	97	4.627	4.627	(0.986)	110573	50.0000	47.43
	32 1,1-Dichloropropene	75	4.807	4.807	(0.885)	103115	50.0000	44.57
	33 1,2-Dichloroethane	62	5.040	5.040	(0.928)	112118	50.0000	51.74
	34 Carbon Tetrachloride	117	4.804	4.804	(0.884)	92190	50.0000	46.41
$	35 1,2-Dichloroethane-d4	65	4.961	4.961	(1.058)	106030	50.0000	59.83(M)
*	36 1,4-Difluorobenzene	114	5.433	5.433	(1.000)	274357	50.0000	
	37 Benzene	78	5.021	5.021	(0.924)	314609	50.0000	47.57
	38 Trichloroethene	130	5.677	5.677	(1.045)	78386	50.0000	41.98
	39 Bromodichloromethane	83	6.157	6.157	(1.133)	100661	50.0000	51.25
	40 Methyl Methacrylate	41	6.041	6.041	(1.288)	108708	50.0000	64.45
	41 2-Chloroethylvinyl ether	63	6.442	6.442	(1.186)	3108	100.000	82.03(M)
	42 1,2-Dichloropropane	63	5.887	5.887	(1.083)	88556	50.0000	51.87
	43 2-Nitropropane	43	6.378	6.378	(1.360)	29420	50.0000	57.82
	44 Dibromomethane	93	5.992	5.992	(1.103)	45914	50.0000	48.59
	45 4-Methyl-2-Pentanone	43	6.738	6.738	(0.834)	226056	100.000	120.76
	46 cis-1,3-Dichloropropene	75	6.577	6.577	(1.210)	105068	50.0000	49.05
*	47 Chlorobenzene-d5	117	8.084	8.084	(1.000)	242263	50.0000	
$	48 Toluene-d8	98	6.820	6.820	(0.844)	360832	50.0000	57.16
	49 Ethyl Methacrylate	69	7.191	7.191	(1.324)	152353	50.0000	60.96
	50 Toluene	91	6.880	6.880	(0.851)	324516	50.0000	45.81
	51 trans-1,3-Dichloropropene	75	7.083	7.083	(1.304)	83497	50.0000	43.39
	52 2-Hexanone	43	7.480	7.480	(0.925)	153976	100.000	107.97
	53 1,1,2-Trichloroethane	83	7.240	7.240	(0.896)	61968	50.0000	49.26
	54 1,3-Dichloropropane	76	7.386	7.386	(0.914)	124299	50.0000	47.77
	55 Dibromochloromethane	129	7.578	7.578	(0.937)	76563	50.0000	48.01
	56 Tetrachloroethene	164	7.364	7.364	(0.911)	63702	50.0000	43.50
	57 1,2-Dibromoethane	107	7.671	7.671	(0.949)	52140	50.0000	41.72
	58 1-Chlorohexane	55	8.106	8.106	(1.492)	76216	50.0000	49.08
	59 Chlorobenzene	112	8.106	8.106	(1.003)	200640	50.0000	43.08
	60 1,1,1,2-Tetrachloroethane	131	8.181	8.181	(1.012)	69273	50.0000	46.42
	61 Ethylbenzene	106	8.211	8.211	(1.016)	103952	50.0000	44.51
	62 m,p-Xylenes	106	8.316	8.316	(1.029)	260816	100.000	88.87
	63 o-Xylene	106	8.650	8.650	(1.070)	127653	50.0000	43.77
	64 Styrene	104	8.661	8.661	(1.071)	220294	50.0000	46.22
	66 Bromoform	173	8.811	8.811	(1.090)	52449	50.0000	38.71
	67 Isopropylbenzene	105	8.968	8.968	(1.109)	313561	50.0000	45.73
	68 1,1,2,2-Tetrachloroethane	83	9.219	9.219	(0.916)	100549	50.0000	48.97
$	69 4-Bromofluorobenzene	95	9.092	9.092	(1.125)	123131	50.0000	56.38
*	70 1,4-Dichlorobenzene-d4	152	10.070	10.070	(1.000)	129305	50.0000	
	71 1,2,3-Trichloropropane	75	9.253	9.253	(0.919)	100065	50.0000	48.39
	72 trans-1,4-Dichloro-2-butene	53	9.268	9.268	(1.147)	17876	50.0000	47.16
	73 n-Propylbenzene	91	9.321	9.321	(0.926)	358143	50.0000	47.66
	74 Bromobenzene	156	9.216	9.216	(0.915)	91125	50.0000	42.38
	75 1,3,5-Trimethylbenzene	105	9.471	9.471	(0.940)	264264	50.0000	45.88
	76 2-Chlorotoluene	91	9.384	9.384	(0.932)	226455	50.0000	46.16

77	4-Chlorotoluene	91	9.478	9.478 (0.941)	254145	50.0000	45.53
78	tert-Butylbenzene	119	9.744	9.744 (0.968)	216294	50.0000	46.28

	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	9.786	9.786	(0.972)	262886	50.0000	45.43
81	sec-Butylbenzene	105	9.932	9.932	(0.986)	287117	50.0000	47.03
82	p-Isopropyltoluene	119	10.055	10.055	(0.999)	260193	50.0000	45.62
83	1,3-Dichlorobenzene	146	10.014	10.014	(0.994)	159341	50.0000	42.59
84	1,4-Dichlorobenzene	146	10.089	10.089	(1.002)	160031	50.0000	40.82
87	n-Butylbenzene	91	10.400	10.400	(1.033)	233708	50.0000	47.36
88	1,2-Dichlorobenzene	146	10.400	10.400	(1.033)	159422	50.0000	42.26
89	1,2-Dibromo-3-Chloropropane	155	11.053	11.053	(1.098)	13202	50.0000	41.25
90	1,2,4-Trichlorobenzene	180	11.754	11.754	(1.167)	114208	50.0000	41.48
91	Hexachlorobutadiene	225	11.904	11.904	(1.182)	53731	50.0000	37.02
92	Naphthalene	128	11.956	11.956	(1.187)	295444	50.0000	42.54
93	1,2,3-Trichlorobenzene	180	12.158	12.158	(1.207)	105474	50.0000	41.90
135	1,4-Dioxane	88	6.041	6.041	(1.288)	25421	1000.00	1021.30
130	Ethyl Acetate	43	4.193	4.193	(0.894)	110789	50.0000	60.80
136	n-Hexane	57	3.259	3.259	(0.695)	73067	50.0000	43.70
138	Freon TF	101	2.277	2.277	(0.485)	64903	50.0000	45.66
141	Cyclohexane	56	4.684	4.684	(0.998)	114819	50.0000	51.30
142	Tetrahydrofuran	42	4.395	4.395	(0.937)	40131	100.000	131.34
146	Methyl Acetate	43	2.614	2.614	(0.557)	148480	50.0000	60.23
147	Methylcyclohexane	55	5.861	5.861	(1.079)	150886	50.0000	57.52
149	Isopropyl alcohol	45	2.449	2.449	(0.522)	156612	1000.00	1363.03
151	4-Methyl-2-pentanol	45	7.102	7.102	(1.307)	693902	1000.00	1024.87
156	Diisopropyl ether	45	3.507	3.507	(0.748)	365770	50.0000	67.32
158	Dichlorofluoromethane	67	1.805	1.805	(0.385)	151643	50.0000	66.09
166	1,2,3-Trimethylbenzene	105	10.138	10.138	(1.007)	295719	50.0000	51.65
160	2-Methylnaphthalene	142	12.901	12.901	(1.281)	156623	50.0000	37.41
180	1-Methylnaphthalene	142	13.062	13.062	(1.297)	139693	50.0000	38.93
174	tert-Amyl methyl ether	73	5.171	5.171	(1.102)	284877	50.0000	61.78
175	tert-Butyl ethyl ether	59	3.923	3.923	(0.836)	289951	50.0000	61.07
140	1,3-Butadiene	54	1.377	1.377	(0.294)	94020	50.0000	55.38
189	n-Butyl acetate	43	7.608	7.608	(0.941)	178304	50.0000	58.17
86	Benzyl Chloride	91	10.400	10.400	(1.287)	233708	50.0000	46.25
178	Ethylene oxide	44	1.565	1.565	(0.334)	296830	100.000	119.71
182	Epichlorohydrin	57	6.502	6.502	(1.197)	28841	200.000	207.07
185	Isoprene	39	2.097	2.097	(0.447)	28678	50.0000	62.74
150	Allyl alcohol	57	3.492	3.492	(0.744)	36676	1000.00	1033.41
162	Butyl acrylate	55	8.638	8.638	(1.069)	218996	50.0000	52.38
194	Acetaldehyde	44	1.426	1.426	(0.304)	53215	200.000	236.70
131	Methyl Acrylate	55	4.219	4.219	(0.899)	91465	50.0000	59.45
133	Ethyl Acrylate	55	5.823	5.823	(1.241)	121304	50.0000	63.81
203	2-Ethylhexyl Acrylate	55	11.945	11.945	(1.186)	119652	50.0000	50.95(A)
204	2-Chloropropene	41	1.876	1.876	(0.400)	154637	50.0000	75.84(A)
163	Butyl methacrylate	41	9.557	9.557	(0.949)	162714	50.0000	59.67
167	Ethanol	45	2.007	2.007	(0.428)	28897	1000.00	1416.64
200	Dimethyl Disulfide	94	6.633	6.633	(0.821)	119470	50.0000	48.06
M 94	1,2-Dichloroethylene (total)	96				150431	100.000	99.17
M 95	Xylenes (total)	106				388469	150.000	132.65

QC Flag Legend

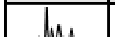
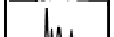
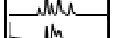
A - Target compound detected but, quantitated amount

exceeded maximum amount.
M - Compound response manually integrated.

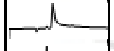
HS24041309 Wetchem 9056_anions_W

ALS WO# HS24041309

Sequence: 042324
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	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	MBLK	9056-W-SH-1	Unknown	R5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	LCS	9056-W-SH-1	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	R4	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
	HS24041577-10MS	9056-W-SH-1	Unknown	GC8	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24041577-10MSD	9056-W-SH-1	Unknown	GD1	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24041577-12MS	9056-W-SH-1	Unknown	GD4	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24041577-12MSD	9056-W-SH-1	Unknown	GD5	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
	HS24041309-01	9056-W-SH-1	Unknown	GE5	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current
	HS24041309-01DF20	9056-W-SH-1	Unknown	GE6	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	R7	1.00		Anions Program ISO37mM 150mm short 0.4 Constant current

Sequence: 042324
Last Update Operator: ALSHS.NoUser

Processing Method	CD	Name	Volume	Status	Inject Time
Anions Processing Method ISO		STD1	5.0	Finished	4/3/2024 8:55:18 AM -05
Anions Processing Method ISO		STD2	5.0	Finished	4/3/2024 9:01:14 AM -05
Anions Processing Method ISO		STD3	5.0	Finished	4/3/2024 9:07:10 AM -05
Anions Processing Method ISO		STD4	5.0	Finished	4/3/2024 9:13:07 AM -05
Anions Processing Method ISO		STD5	5.0	Finished	4/3/2024 9:19:03 AM -05
Anions Processing Method ISO		STD6	5.0	Finished	4/3/2024 9:24:59 AM -05
Anions Processing Method ISO		ICV	5.0	Finished	4/3/2024 9:36:52 AM -05
Anions Processing Method ISO		ICB	5.0	Finished	4/3/2024 10:21:47 AM -0
Anions Processing Method ISO		CCV1	5.0	Finished	4/23/2024 5:32:11 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	4/23/2024 5:38:06 PM -0
Anions Processing Method ISO		MBLK	5.0	Finished	4/23/2024 5:49:54 PM -0
Anions Processing Method ISO		LCS	5.0	Finished	4/23/2024 5:55:49 PM -0
Anions Processing Method ISO		CCV	5.0	Finished	4/23/2024 7:11:28 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	4/23/2024 7:17:22 PM -0
Anions Processing Method ISO		CCV1	5.0	Finished	4/23/2024 8:40:03 PM -0
Anions Processing Method ISO		CCB	5.0	Finished	4/23/2024 8:45:57 PM -0
Anions Processing Method ISO		HS24041577-10MS	5.0	Finished	4/23/2024 9:03:40 PM -0
Anions Processing Method ISO		HS24041577-10MSD	5.0	Finished	4/23/2024 9:09:34 PM -0
Anions Processing Method ISO		HS24041577-12MS	5.0	Finished	4/23/2024 9:27:17 PM -0
Anions Processing Method ISO		HS24041577-12MSD	5.0	Finished	4/23/2024 9:33:11 PM -0
Anions Processing Method ISO		CCV	5.0	Finished	4/23/2024 10:02:43 PM -
Anions Processing Method ISO		CCB	5.0	Finished	4/23/2024 10:14:32 PM -
Anions Processing Method ISO		HS24041309-01	5.0	Finished	4/23/2024 10:49:58 PM -
Anions Processing Method ISO		HS24041309-01DF20	5.0	Finished	4/23/2024 10:55:53 PM -
Anions Processing Method ISO		CCV1	5.0	Finished	4/23/2024 11:25:24 PM -
Anions Processing Method ISO		CCB	5.0	Finished	4/23/2024 11:31:19 PM -

Sequence: 042324
Injection #6: STD6

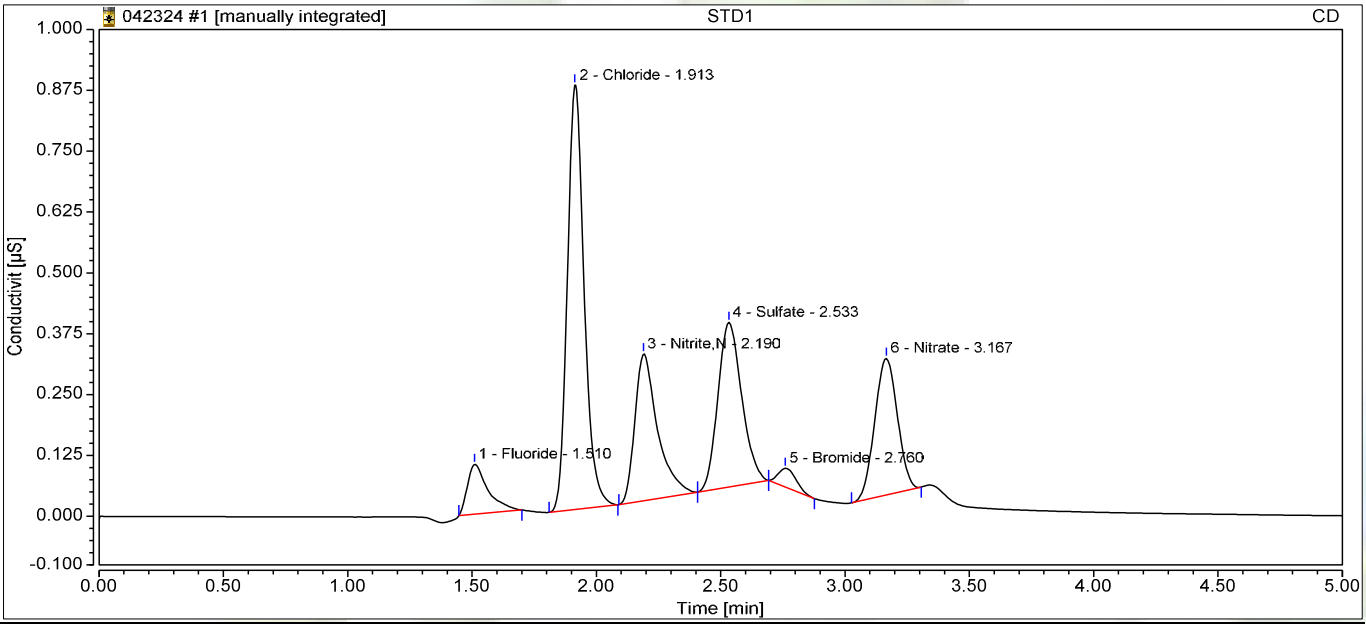
Calibration

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***	***20.6898***	***0.99843***	***-0.0146***	***0.1949***	***0.0000***
2	Chloride	Lin, WithOffset, 1/A	Area	6	4.4996	0.99990	-0.0096	0.1522	0.0000
3	Nitrite,N	Quad, WithOffset, 1/A	Area	6	2.8239	0.99996	-0.0010	0.3209	-0.0035
4	Sulfate	Quad, WithOffset, 1/A	Area	6	6.9024	0.99984	-0.0083	0.0870	0.0001
5	Bromide	Quad, WithOffset, 1/A	Area	6	1.5271	0.99999	-0.0001	0.0340	0.0003
6	Nitrate	Lin, WithOffset, 1/A	Area	6	5.7942	0.99983	-0.0032	0.3234	0.0000
7	Chlorate	Quad, WithOffset, 1/A	Area	5	8.9029	0.99911	-0.0026	0.0210	-0.0003
n.a.	Phosphate	Lin, WithOffset, 1/A	Area	2	n.a.	1.00000	-0.0564	0.0307	0.0000
Maximum					**20.6898**	1.00000			
Minimum					1.5271	**0.99843**			

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:	**04/03/2024 08:55**	*Sample Weight:*	**1.0000**

Run Time:

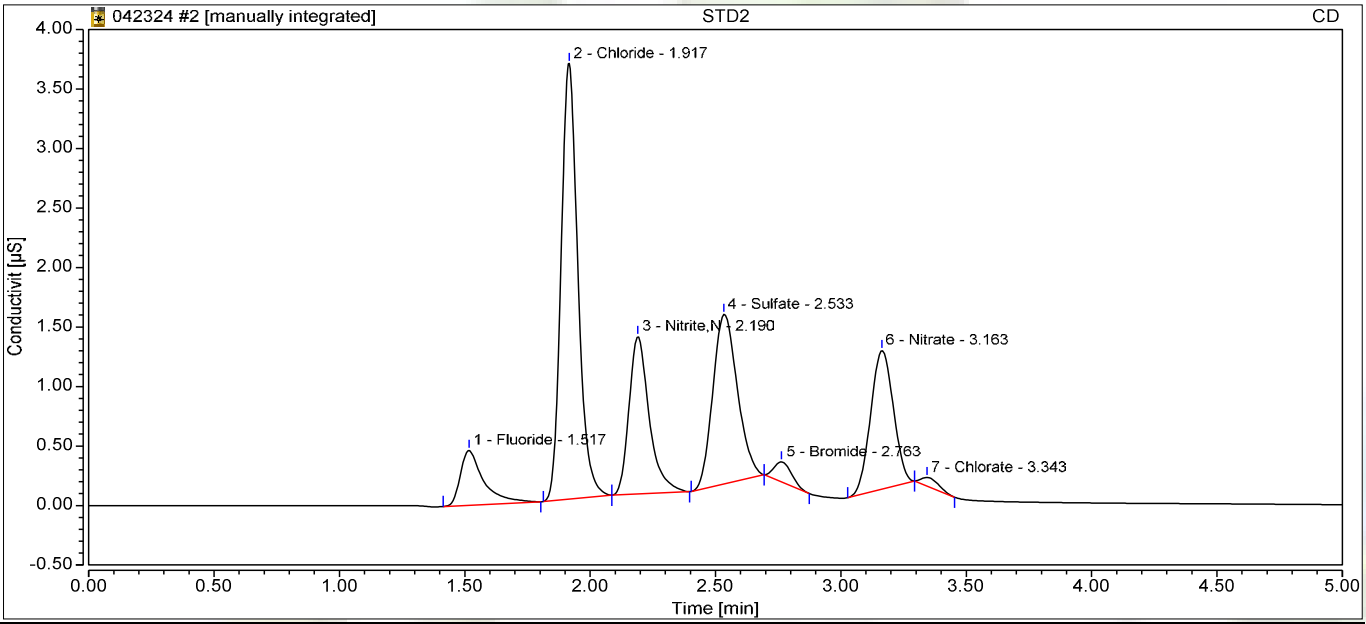


Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB*	0.010	0.1255	0.1255	1.0000
2	1.91	Chloride	BMB	0.068	0.5104	0.5104	1.0000
3	2.19	Nitrite,N	BMB	0.032	0.1022	0.1022	1.0000
4	2.53	Sulfate	BMB	0.037	0.5258	0.5258	1.0000
5	2.76	Bromide	BMB	0.003	0.0977	0.0977	1.0000
6	3.17	Nitrate	BMB	0.030	0.1018	0.1018	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**	**0.180**		**1.46**	

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:	**04/03/2024 09:01**	*Sample Weight:*	**1.0000**

Run Time:



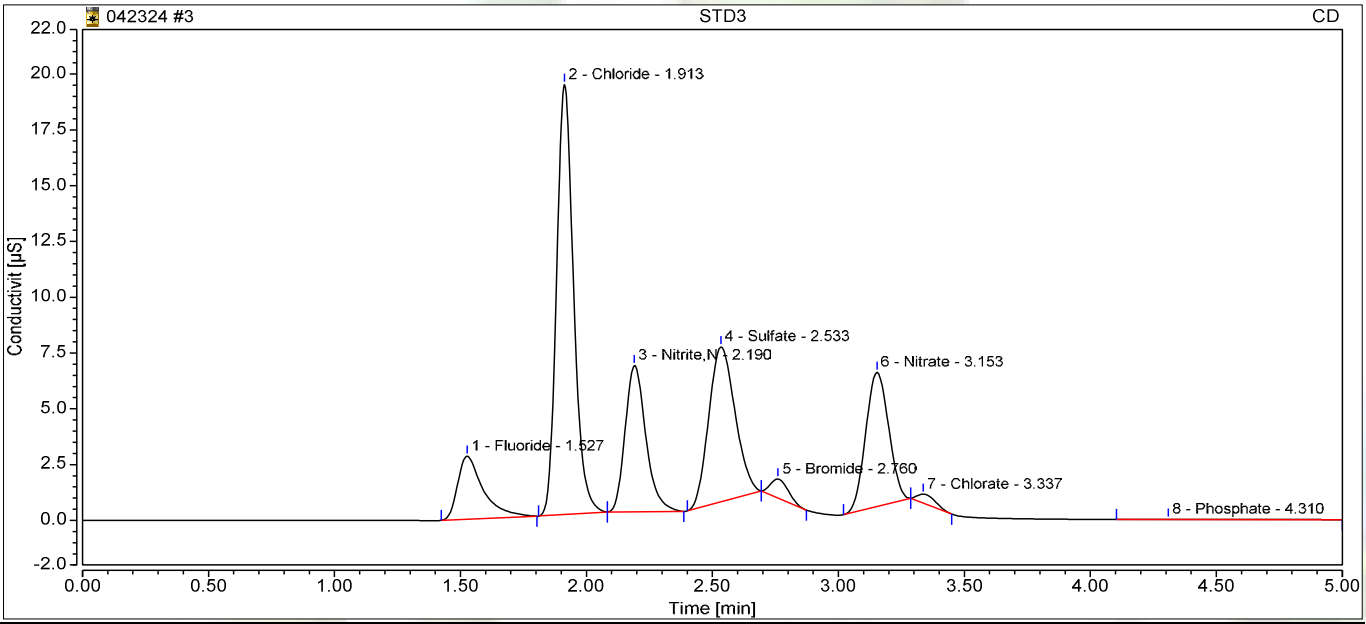
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.52	Fluoride	BMB*	0.050	0.3309	0.3309	1.0000
2	1.92	Chloride	BMB	0.285	1.9321	1.9321	1.0000
3	2.19	Nitrite,N	BMB	0.124	0.3897	0.3897	1.0000
4	2.53	Sulfate	BMB	0.162	1.9522	1.9522	1.0000
5	2.76	Bromide	BMB	0.014	0.4090	0.4090	1.0000
6	3.16	Nitrate	BMB	0.122	0.3886	0.3886	1.0000
7	3.34	Chlorate	BMB	0.006	0.4212	0.4212	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**0.762**		**5.82**	

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:	**04/03/2024 09:07**	*Sample Weight:*	**1.0000**

Run Time:



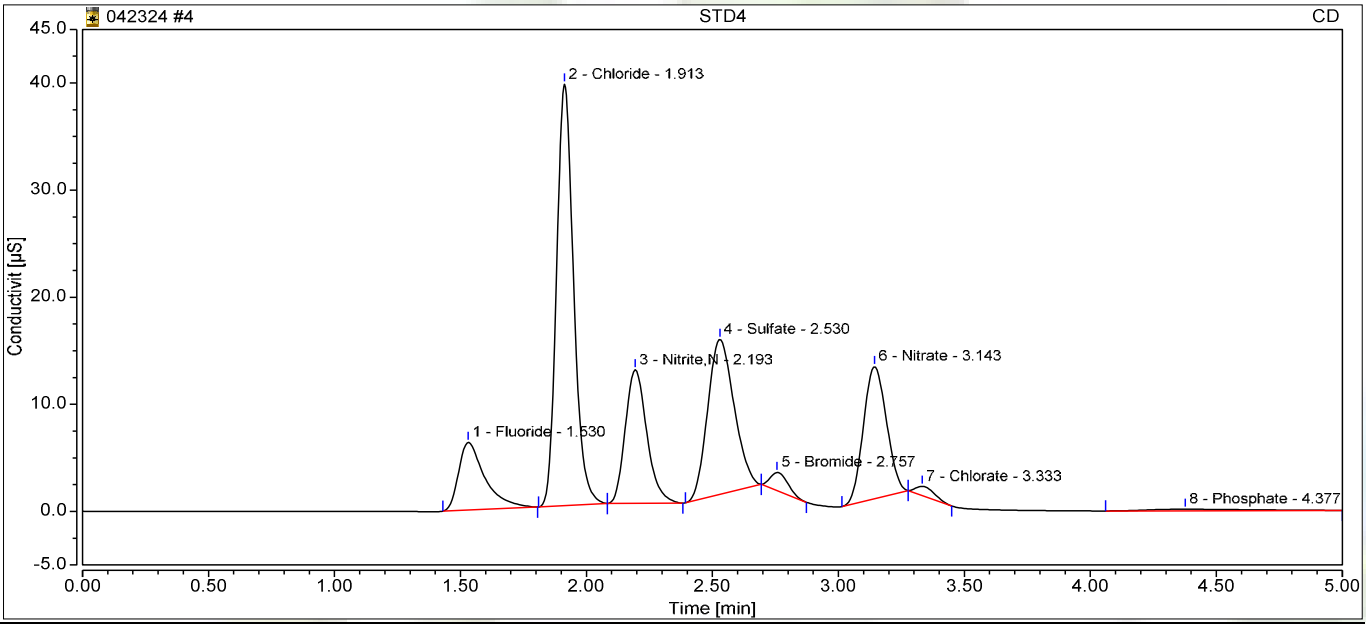
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.332	1.7778	1.7778	1.0000
2	1.91	Chloride	BMB	1.504	9.9432	9.9432	1.0000
3	2.19	Nitrite,N	BMB	0.625	1.9938	1.9938	1.0000
4	2.53	Sulfate	BMB	0.839	9.6367	9.6367	1.0000
5	2.76	Bromide	BMB	0.070	2.0082	2.0082	1.0000
6	3.15	Nitrate	BMB	0.637	1.9783	1.9783	1.0000
7	3.34	Chlorate	BMB	0.035	1.8534	1.8534	1.0000
8	4.31	Phosphate	BMB	0.005	2.0000	2.0000	1.0000
Total:			**0.000**	**4.046**		**31.19**	

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:	**04/03/2024 09:13**	*Sample Weight:*	**1.0000**

Run Time:



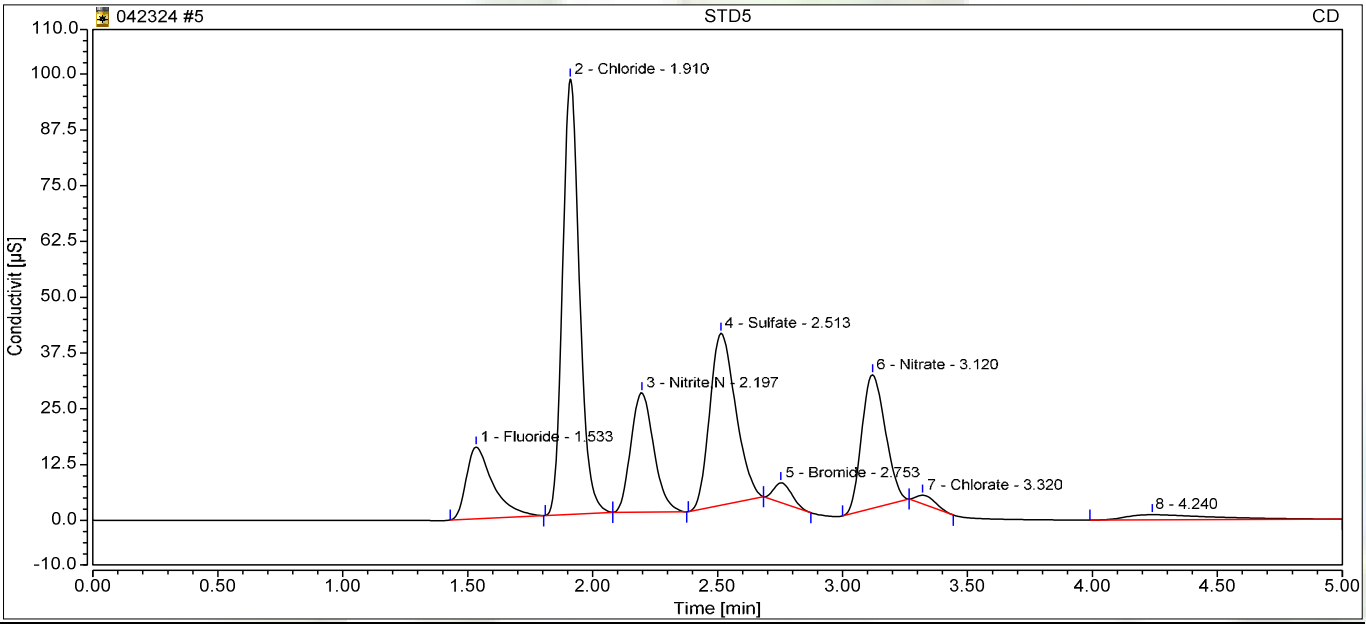
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.765	3.9993	3.9993	1.0000
2	1.91	Chloride	BMB	3.084	20.3219	20.3219	1.0000
3	2.19	Nitrite,N	BMB	1.239	4.0454	4.0454	1.0000
4	2.53	Sulfate	BMB	1.763	19.9326	19.9326	1.0000
5	2.76	Bromide	BMB	0.141	3.9866	3.9866	1.0000
6	3.14	Nitrate	BMB	1.311	4.0629	4.0629	1.0000
7	3.33	Chlorate	BMB	0.077	4.0038	4.0038	1.0000
8	4.38	Phosphate	BMB	0.067	4.0000	4.0000	1.0000
Total:			**0.000**	**8.445**		**64.35**	

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:	**04/03/2024 09:19**	*Sample Weight:*	**1.0000**

Run Time:



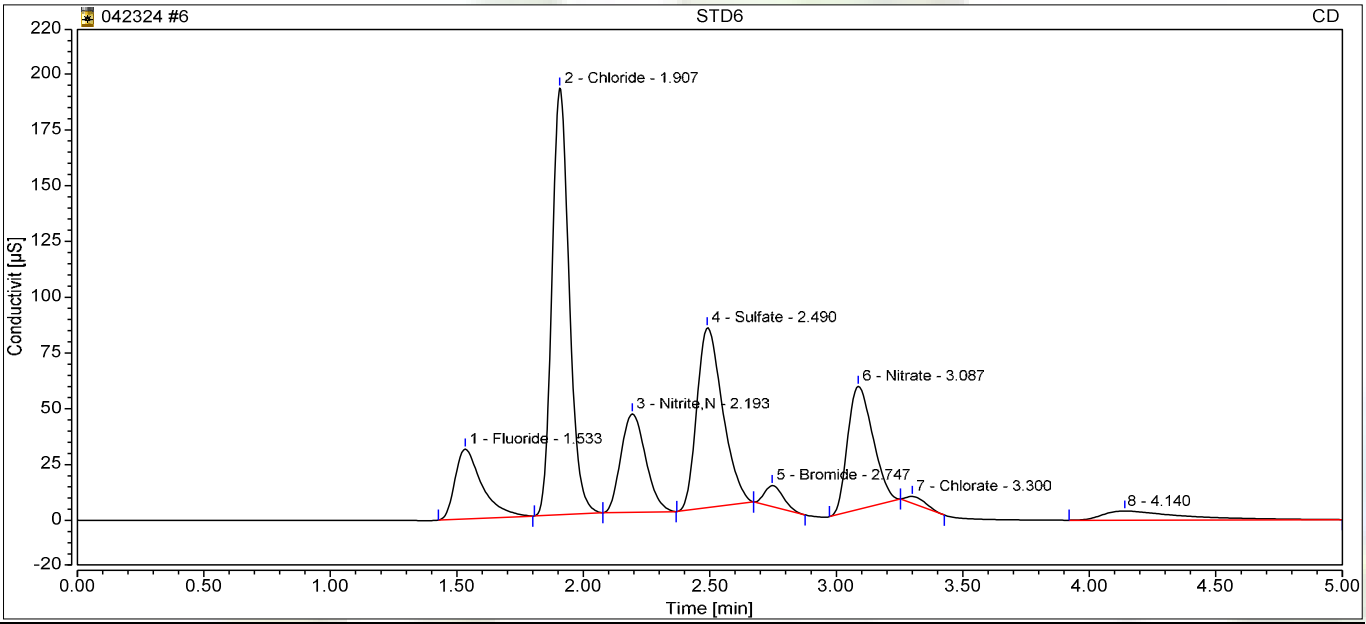
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.995	10.3144	10.3144	1.0000
2	1.91	Chloride	BMB	7.673	50.4728	50.4728	1.0000
3	2.20	Nitrite,N	BMB	2.842	9.9493	9.9493	1.0000
4	2.51	Sulfate	BMB	4.641	50.7445	50.7445	1.0000
5	2.75	Bromide	BMB	0.373	9.9956	9.9956	1.0000
6	3.12	Nitrate	BMB	3.281	10.1555	10.1555	1.0000
7	3.32	Chlorate	BMB	0.181	10.2906	10.2906	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**20.986**		**151.92**	

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:	**04/03/2024 09:24**	*Sample Weight:*	**1.0000**

Run Time:



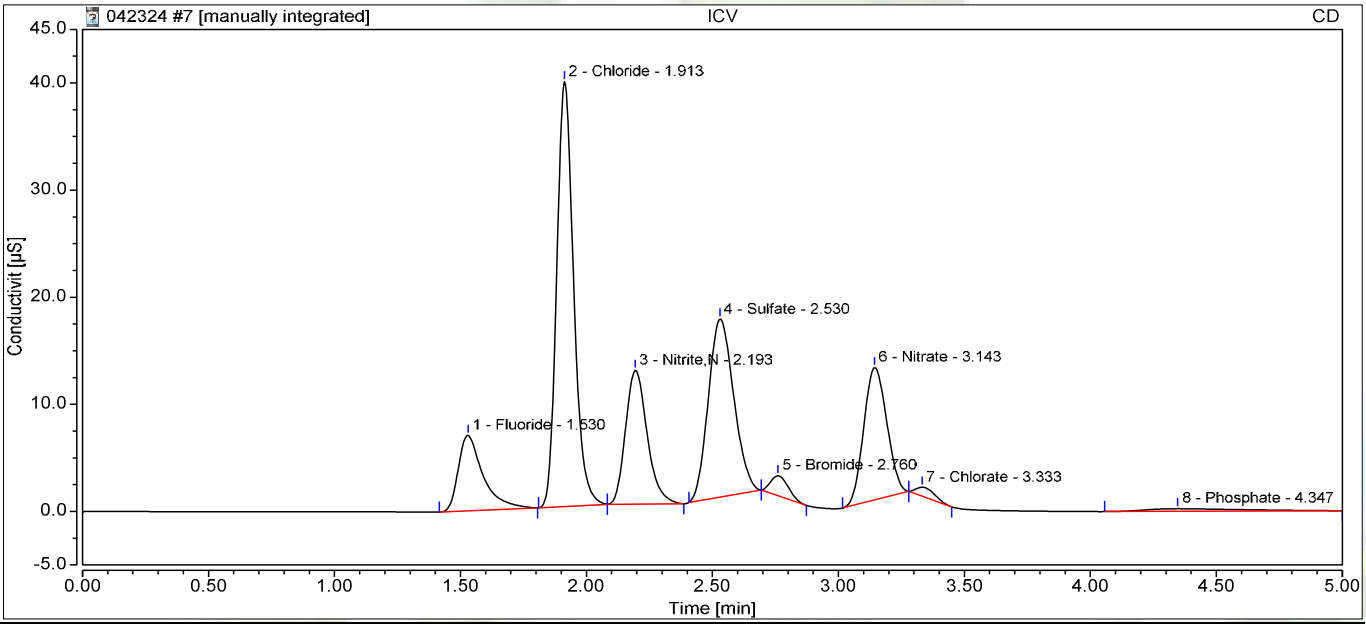
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	3.873	19.9521	19.9521	1.0000
2	1.91	Chloride	BMB	15.108	99.3195	99.3195	1.0000
3	2.19	Nitrite,N	BMB	5.009	20.0220	20.0220	1.0000
4	2.49	Sulfate	BMB	9.566	99.7024	99.7024	1.0000
5	2.75	Bromide	BMB	0.814	20.0032	20.0032	1.0000
6	3.09	Nitrate	BMB	6.404	19.8130	19.8130	1.0000
7	3.30	Chlorate	BMB	0.290	19.7813	19.7813	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**41.065**		**298.59**	

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:	**04/03/2024 09:36**	*Sample Weight:*	**1.0000**

Run Time:



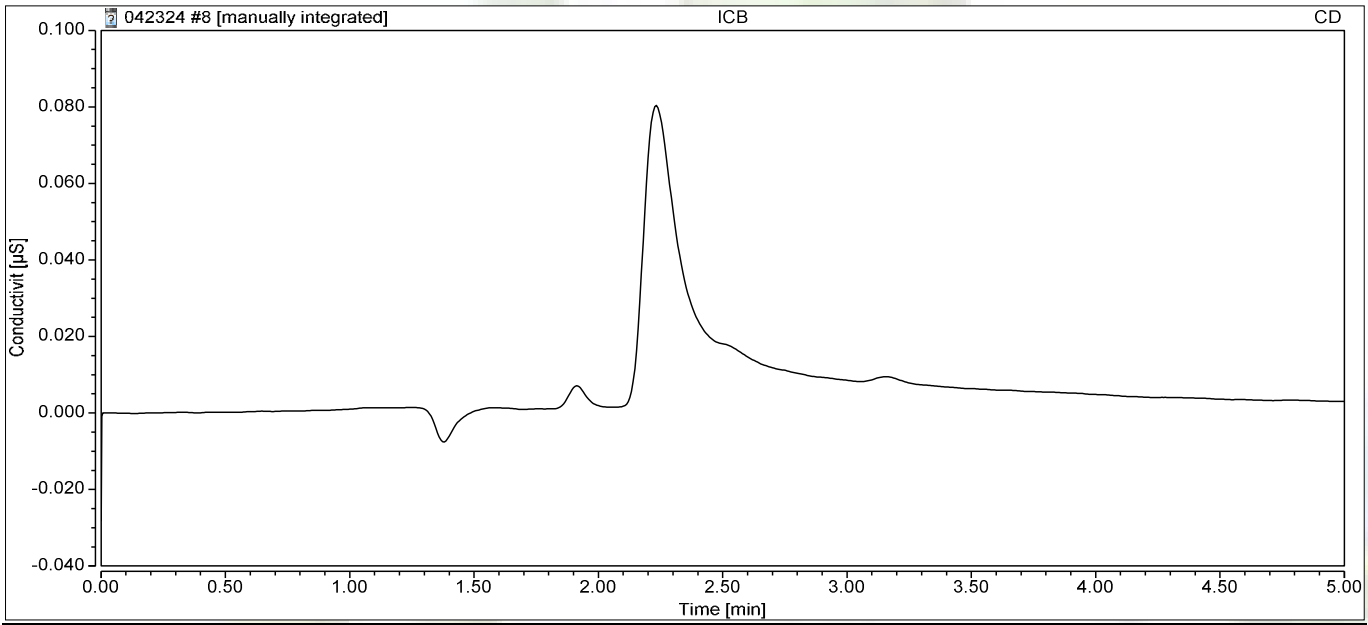
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.804	4.1985	4.1985	1.0000
2	1.91	Chloride	BMB	3.080	20.2963	20.2963	1.0000
3	2.19	Nitrite,N	BMB	1.241	4.0504	4.0504	1.0000
4	2.53	Sulfate	BMB*	1.942	21.9080	21.9080	1.0000
5	2.76	Bromide	BMB	0.153	4.3302	4.3302	1.0000
6	3.14	Nitrate	BMB	1.314	4.0742	4.0742	1.0000
7	3.33	Chlorate	BMB	0.075	3.9407	3.9407	1.0000
8	4.35	Phosphate	BMB	0.109	5.3705	5.3705	1.0000
Total:			**0.000**	**8.718**		**68.17**	

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:	**04/03/2024 10:21**	*Sample Weight:*	**1.0000**

Run Time:



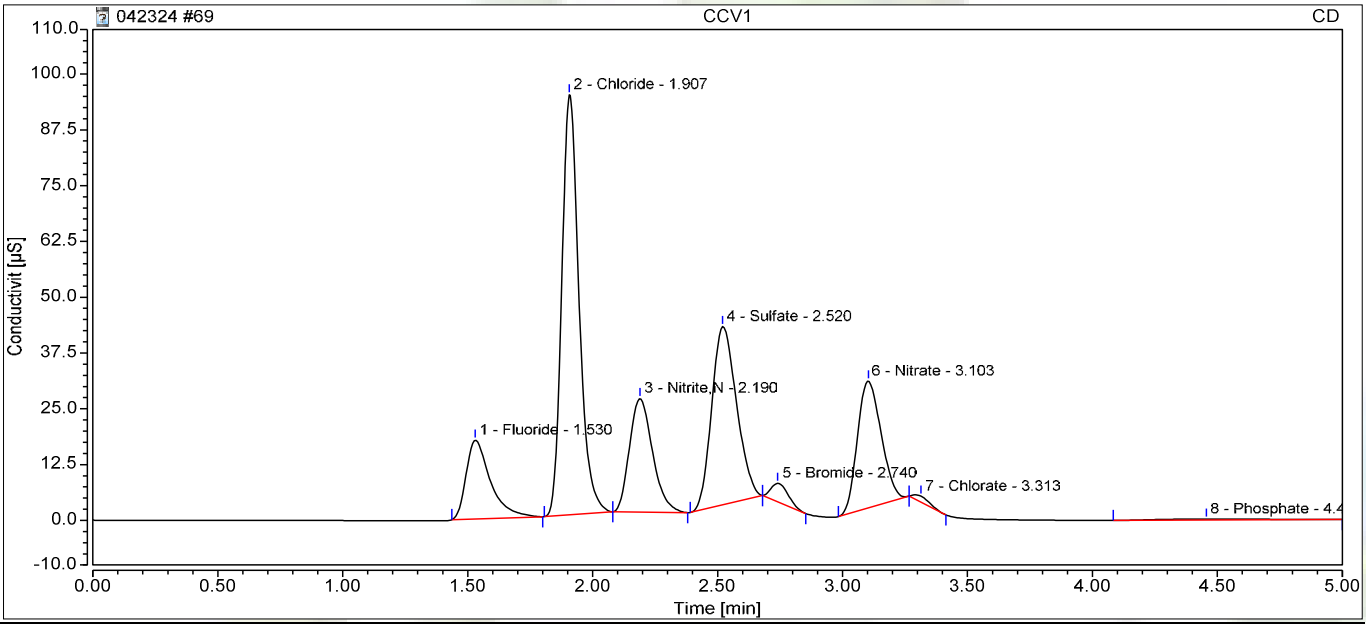
Integration Results

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**	

69 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:	**04/23/2024 17:32**	*Sample Weight:*	**1.0000**

Run Time:



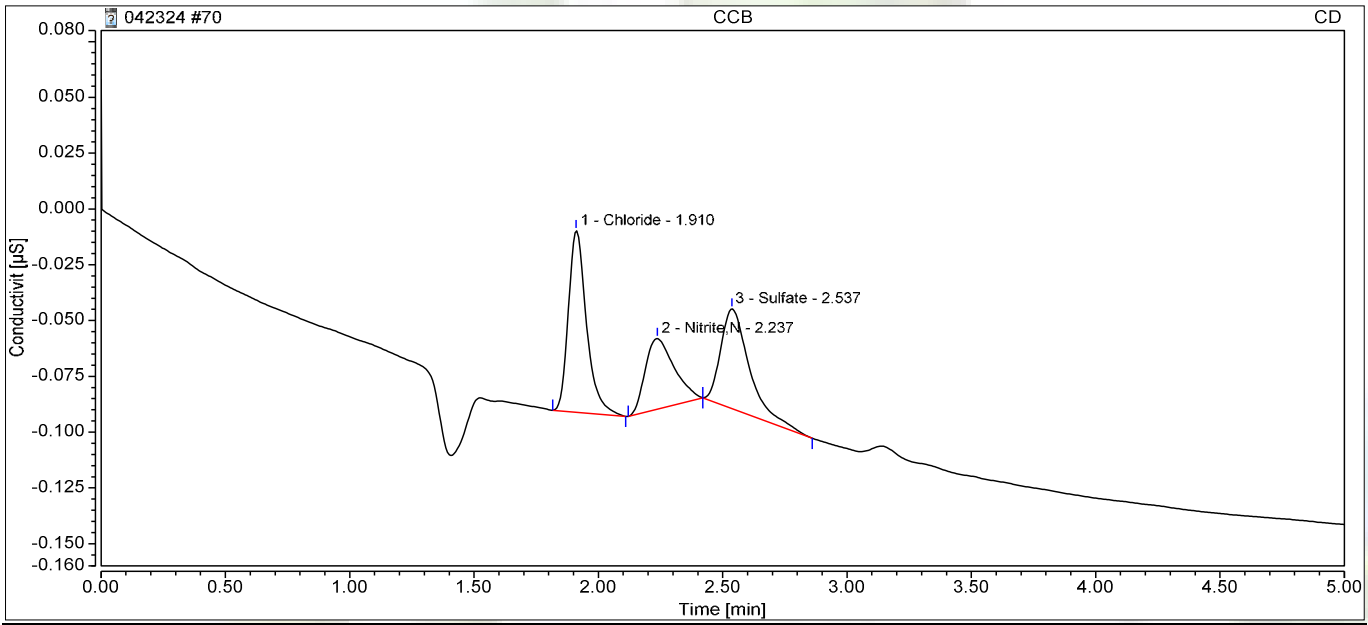
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.988	10.2789	10.2789	1.0000
2	1.91	Chloride	BMB	7.522	49.4783	49.4783	1.0000
3	2.19	Nitrite,N	BMB	2.722	9.4738	9.4738	1.0000
4	2.52	Sulfate	BMB	4.605	50.3744	50.3744	1.0000
5	2.74	Bromide	BMB	0.336	9.0762	9.0762	1.0000
6	3.10	Nitrate	BMB	3.129	9.6863	9.6863	1.0000
7	3.31	Chlorate	BMB	0.095	4.9987	4.9987	1.0000
8	4.46	Phosphate	BMB	0.117	5.6292	5.6292	1.0000
Total:			**0.000**	**20.514**		**149.00**	

70 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:	**04/23/2024 17:38**	*Sample Weight:*	**1.0000**

Run Time:



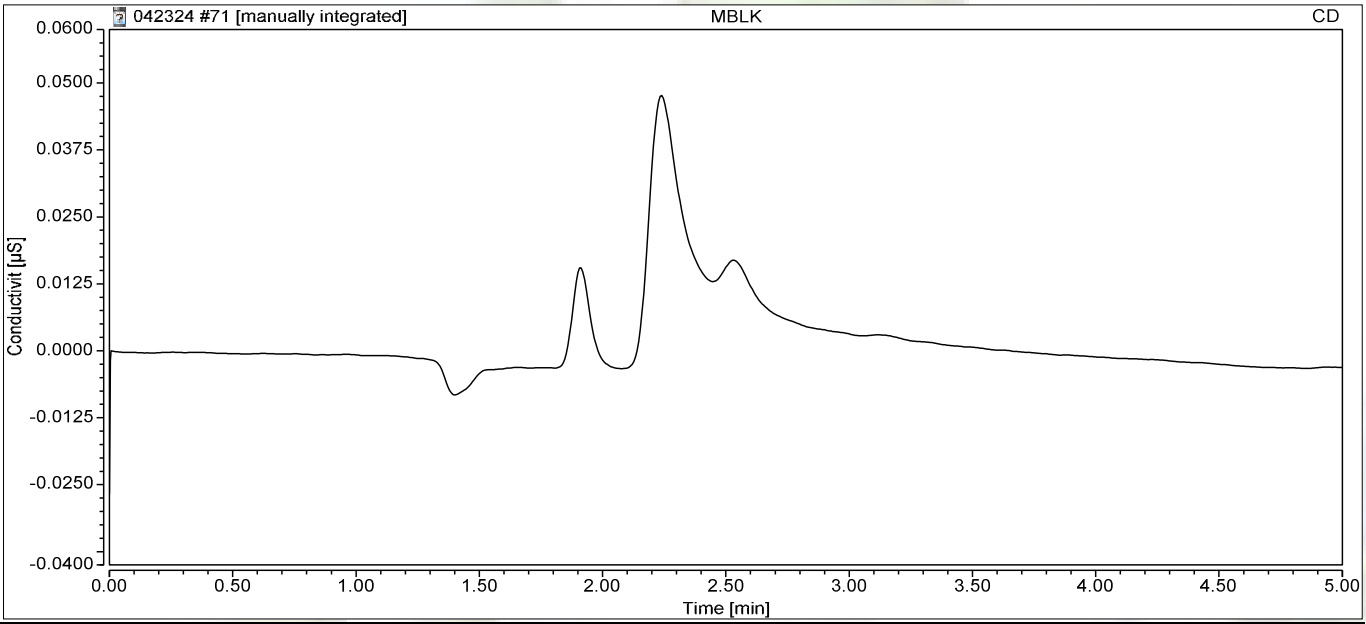
Integration Results

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	1.91	Chloride	BMB	0.007	0.1082	0.1082	1.0000
2	2.24	Nitrite,N	BMB	0.004	0.0163	0.0163	1.0000
3	2.54	Sulfate	BMB	0.006	0.1643	0.1643	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**	**0.017**		**0.29**	

71 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:	**04/23/2024 17:49**	*Sample Weight:*	**1.0000**

Run Time:



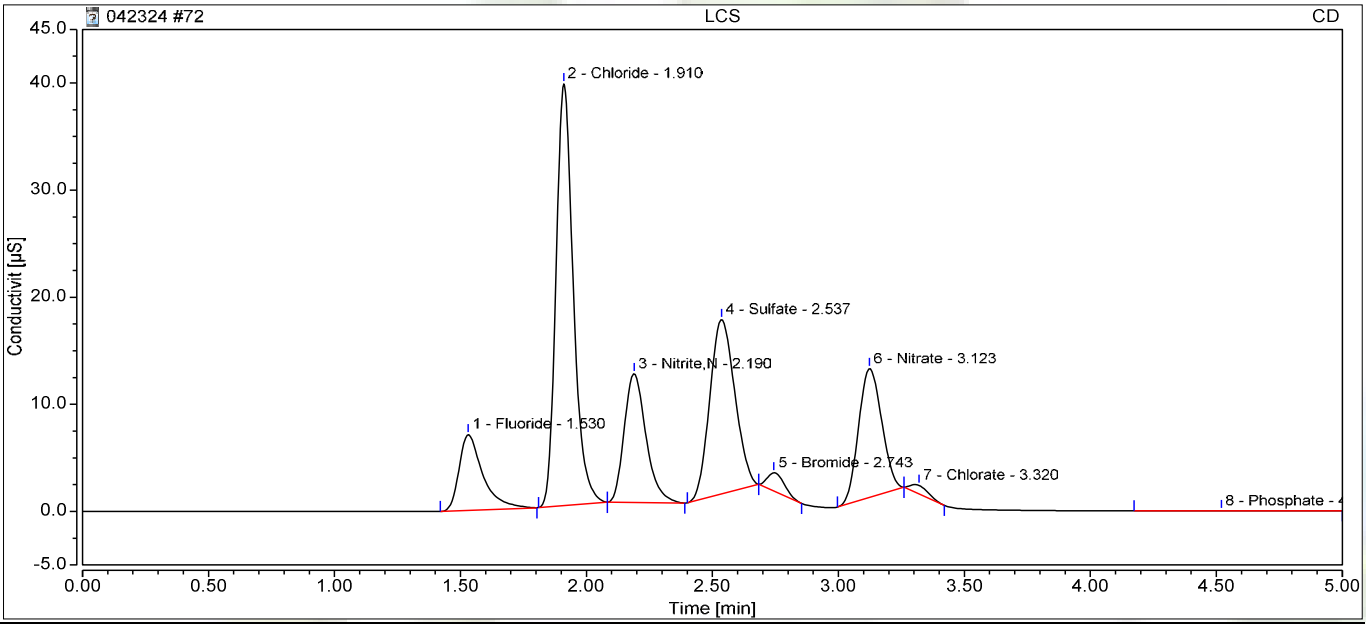
Integration Results

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**	

72 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:	**04/23/2024 17:55**	*Sample Weight:*	**1.0000**

Run Time:



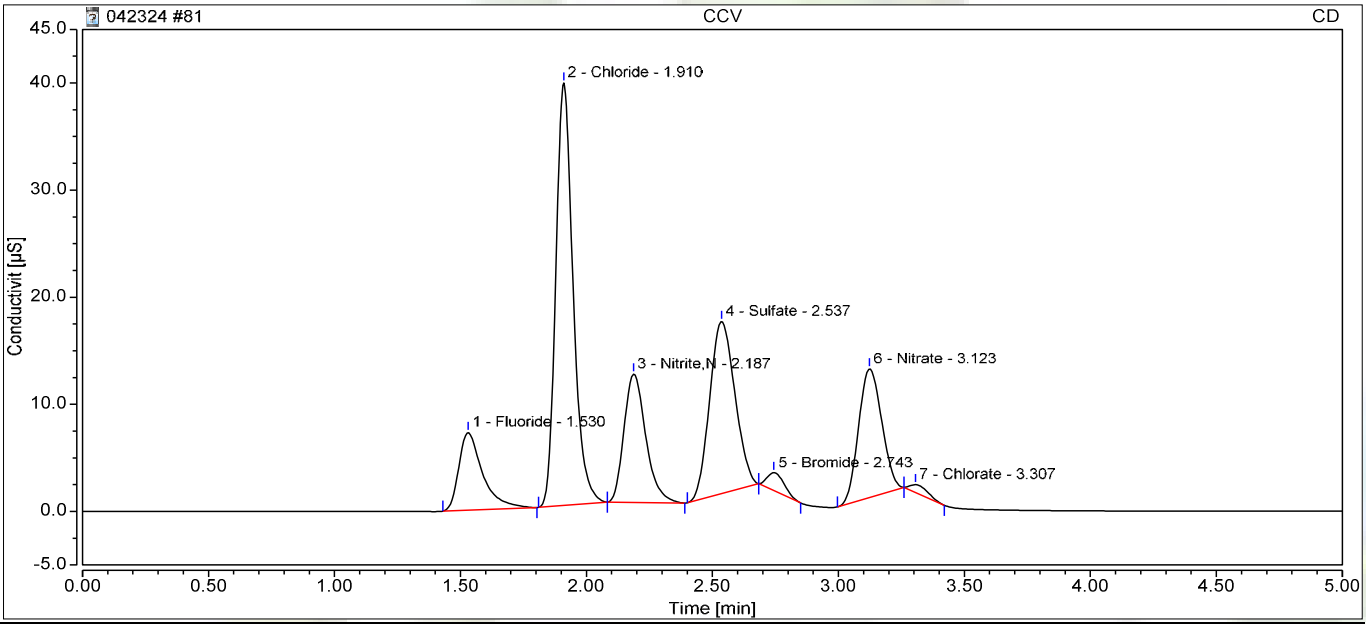
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.774	4.0482	4.0482	1.0000
2	1.91	Chloride	BMB	3.129	20.6221	20.6221	1.0000
3	2.19	Nitrite,N	BMB	1.206	3.9321	3.9321	1.0000
4	2.54	Sulfate	BMB	1.876	21.1854	21.1854	1.0000
5	2.74	Bromide	BMB	0.137	3.8792	3.8792	1.0000
6	3.12	Nitrate	BMB	1.283	3.9769	3.9769	1.0000
7	3.32	Chlorate	BMB	0.064	3.3578	3.3578	1.0000
8	4.52	Phosphate	BMB	0.009	2.1398	2.1398	1.0000
Total:			**0.000**	**8.479**		**63.14**	

81 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:	**04/23/2024 19:11**	*Sample Weight:*	**1.0000**

Run Time:



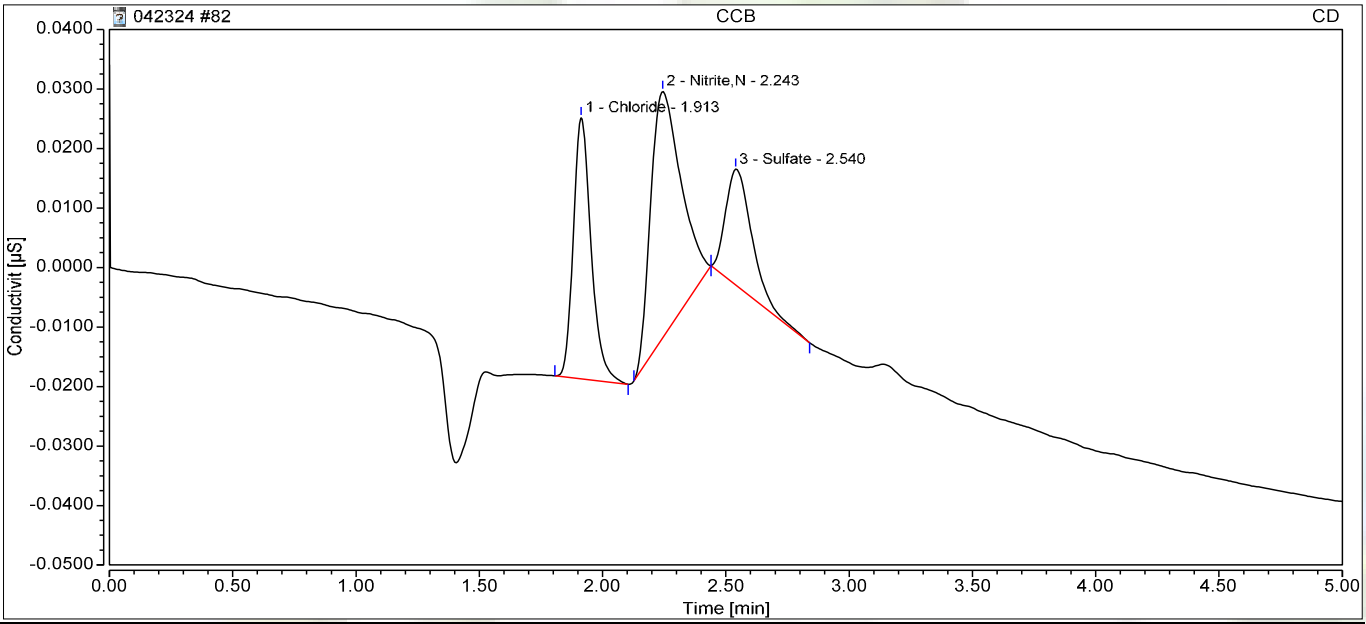
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.795	4.1528	4.1528	1.0000
2	1.91	Chloride	BMB	3.128	20.6153	20.6153	1.0000
3	2.19	Nitrite,N	BMB	1.202	3.9167	3.9167	1.0000
4	2.54	Sulfate	BMB	1.865	21.0649	21.0649	1.0000
5	2.74	Bromide	BMB	0.134	3.7917	3.7917	1.0000
6	3.12	Nitrate	BMB	1.282	3.9754	3.9754	1.0000
7	3.31	Chlorate	BMB	0.065	3.3675	3.3675	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.470**		**60.88**	

82 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:	**04/23/2024 19:17**	*Sample Weight:*	**1.0000**

Run Time:



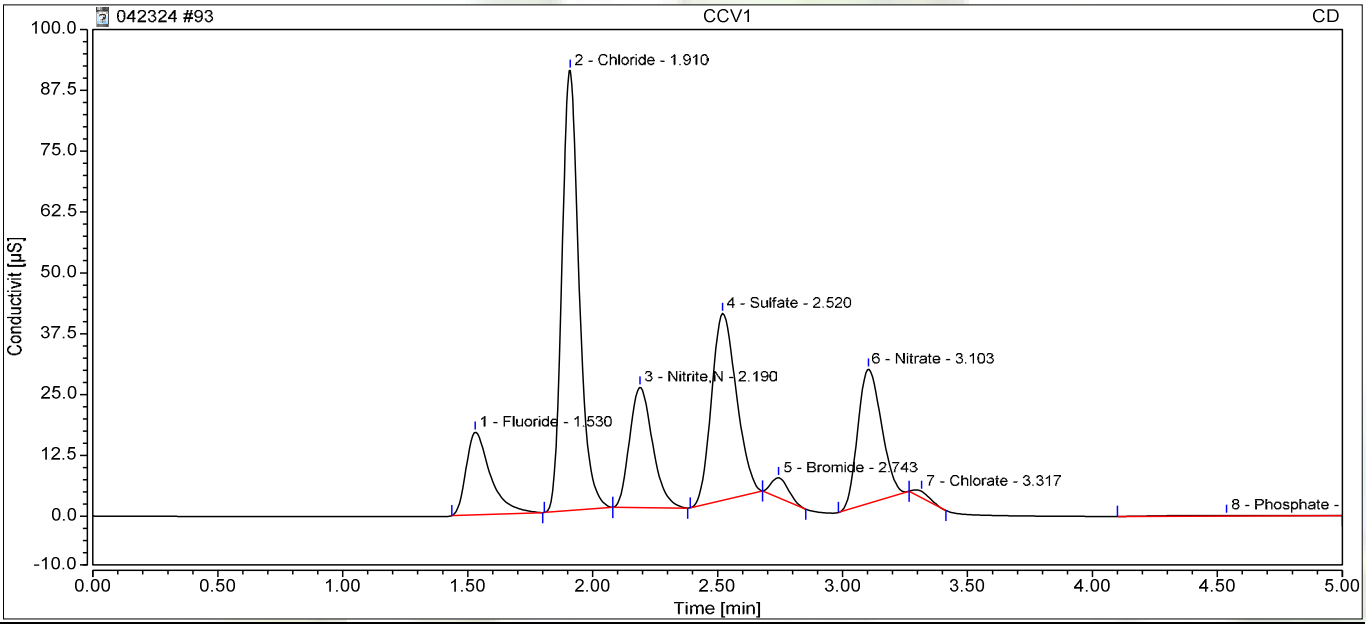
Integration Results

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	1.91	Chloride	BMB	0.004	0.0872	0.0872	1.0000
2	2.24	Nitrite,N	BMB	0.006	0.0213	0.0213	1.0000
3	2.54	Sulfate	BMB	0.002	0.1233	0.1233	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**	**0.012**		**0.23**	

93 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:	**04/23/2024 20:40**	*Sample Weight:*	**1.0000**

Run Time:



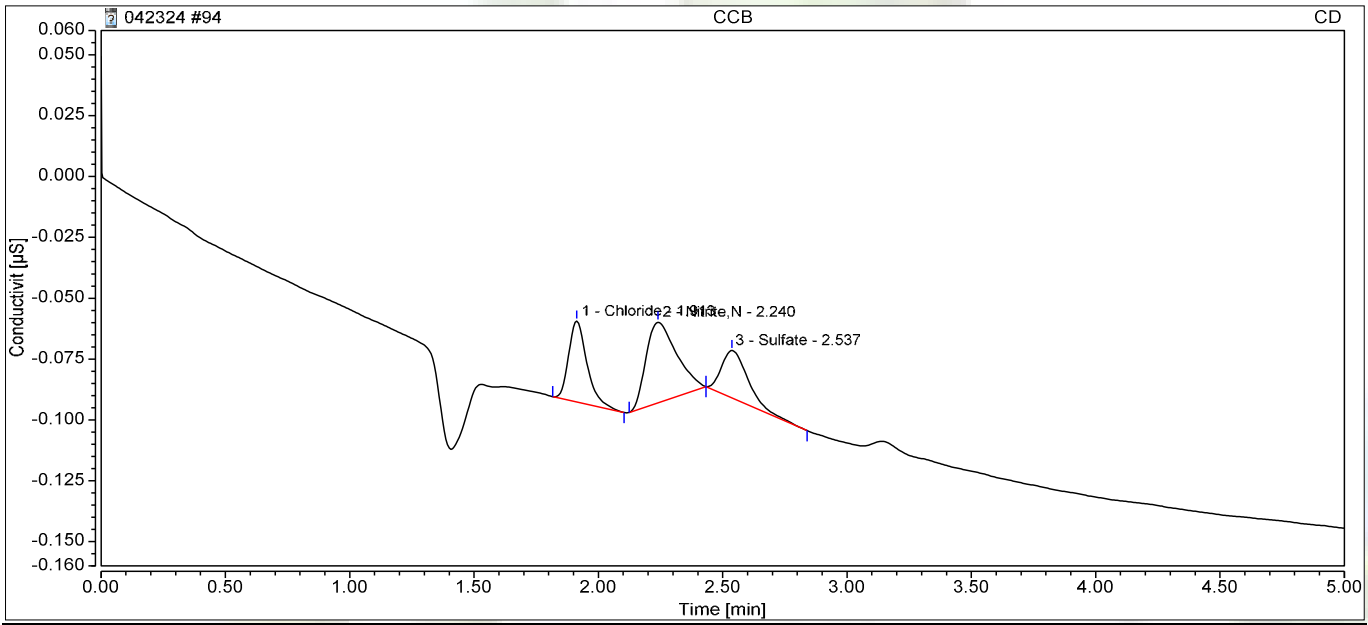
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	1.909	9.8705	9.8705	1.0000
2	1.91	Chloride	BMB	7.225	47.5315	47.5315	1.0000
3	2.19	Nitrite,N	BMB	2.643	9.1617	9.1617	1.0000
4	2.52	Sulfate	BMB	4.434	48.5921	48.5921	1.0000
5	2.74	Bromide	BMB	0.329	8.8953	8.8953	1.0000
6	3.10	Nitrate	BMB	3.034	9.3914	9.3914	1.0000
7	3.32	Chlorate	BMB	0.094	4.9609	4.9609	1.0000
8	4.54	Phosphate	BMB	0.072	4.1687	4.1687	1.0000
Total:			**0.000**	**19.739**		**142.57**	

94 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:	**04/23/2024 20:45**	*Sample Weight:*	**1.0000**

Run Time:



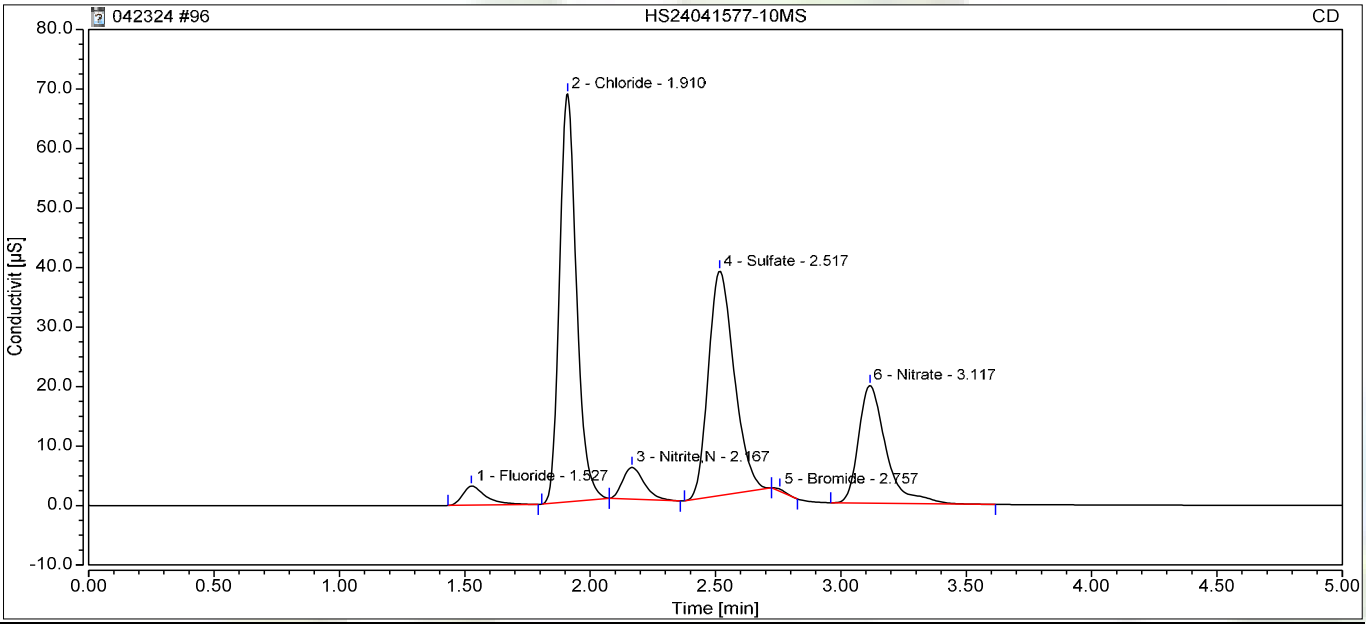
Integration Results

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	1.91	Chloride	BMB	0.003	0.0818	0.0818	1.0000
2	2.24	Nitrite,N	BMB	0.005	0.0176	0.0176	1.0000
3	2.54	Sulfate	BMB	0.002	0.1234	0.1234	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**	**0.010**		**0.22**	

96 HS24041577-10MS

Sample Name:	**HS24041577-10MS**	*Injection Volume:*	**5.00**
Vial Number:	**GC8**	*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:	**04/23/2024 21:03**	*Sample Weight:*	**1.0000**

Run Time:



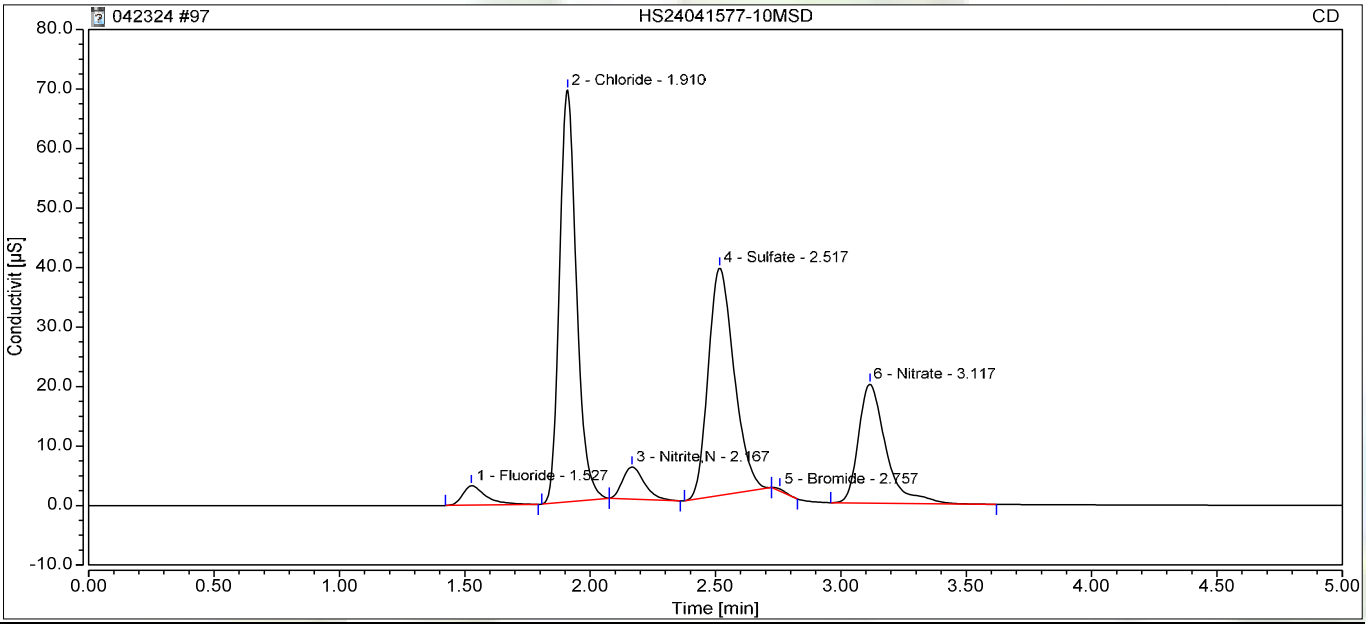
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.344	1.8418	1.8418	1.0000
2	1.91	Chloride	BMB	5.382	35.4231	35.4231	1.0000
3	2.17	Nitrite,N	BMB	0.532	1.6927	1.6927	1.0000
4	2.52	Sulfate	BMB	4.511	49.3945	49.3945	1.0000
5	2.76	Bromide	BMB	0.018	0.5420	0.5420	1.0000
6	3.12	Nitrate	BMB	2.507	7.7613	7.7613	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**	**13.295**		**96.66**	

97 HS24041577-10MSD

Sample Name:	**HS24041577-10MSD**	*Injection Volume:*	**5.00**
Vial Number:	**GD1**	*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:	**04/23/2024 21:09**	*Sample Weight:*	**1.0000**

Run Time:



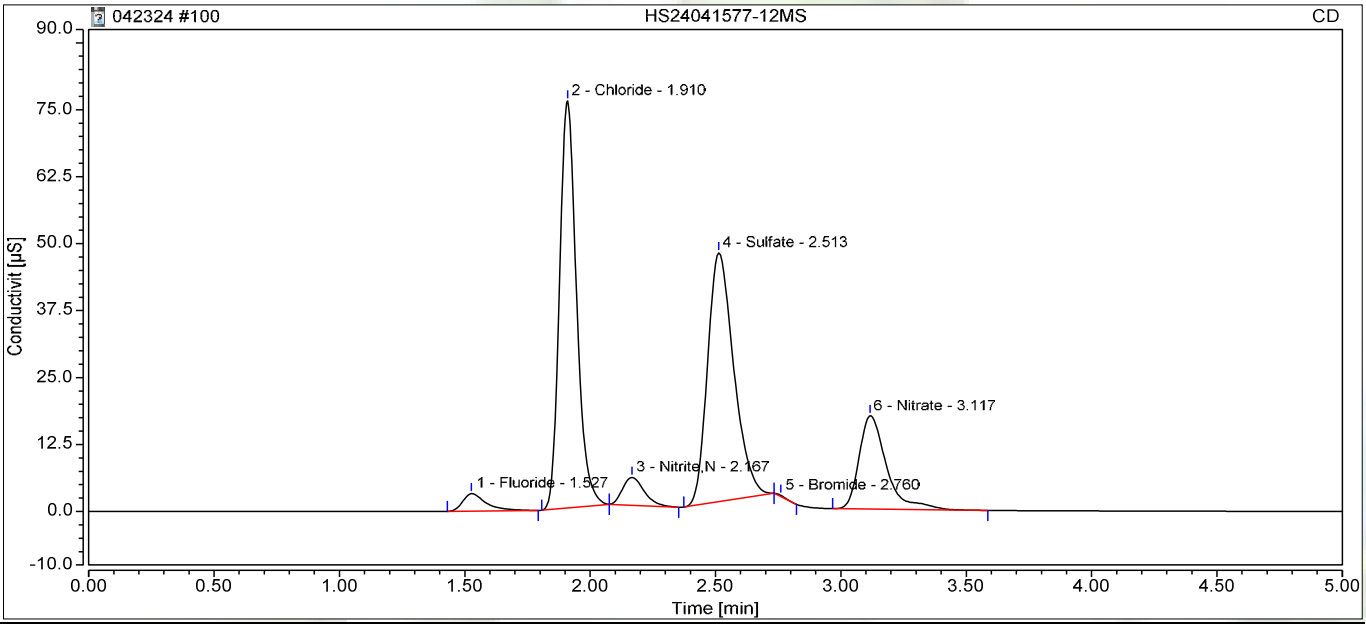
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.354	1.8916	1.8916	1.0000
2	1.91	Chloride	BMB	5.435	35.7717	35.7717	1.0000
3	2.17	Nitrite,N	BMB	0.538	1.7116	1.7116	1.0000
4	2.52	Sulfate	BMB	4.574	50.0442	50.0442	1.0000
5	2.76	Bromide	BMB	0.019	0.5493	0.5493	1.0000
6	3.12	Nitrate	BMB	2.534	7.8449	7.8449	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**	**13.453**		**97.81**	

100 HS24041577-12MS

Sample Name:	**HS24041577-12MS**	*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:	**04/23/2024 21:27**	*Sample Weight:*	**1.0000**

Run Time:



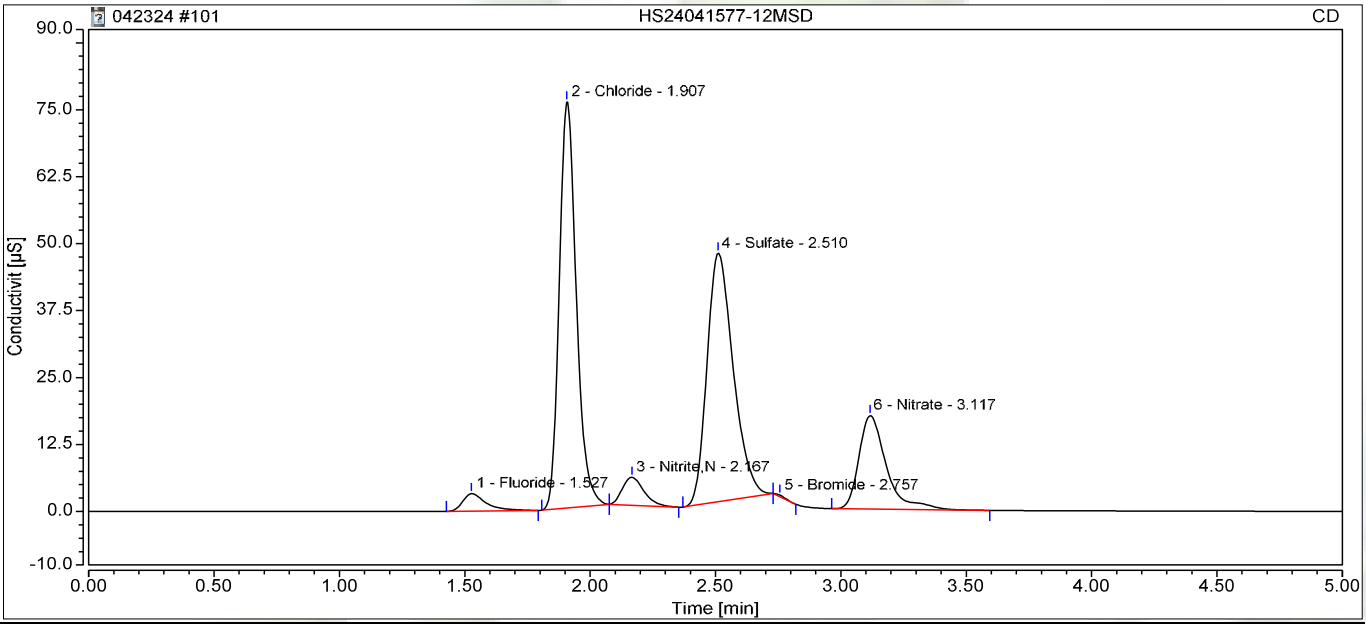
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.357	1.9046	1.9046	1.0000
2	1.91	Chloride	BMB	5.974	39.3084	39.3084	1.0000
3	2.17	Nitrite,N	BMB	0.519	1.6510	1.6510	1.0000
4	2.51	Sulfate	BMB	5.632	60.9471	60.9471	1.0000
5	2.76	Bromide	BMB	0.009	0.2705	0.2705	1.0000
6	3.12	Nitrate	BMB	2.209	6.8418	6.8418	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**	**14.699**		**110.92**	

101 HS24041577-12MSD

Sample Name:	**HS24041577-12MSD**	*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:	**04/23/2024 21:33**	*Sample Weight:*	**1.0000**

Run Time:



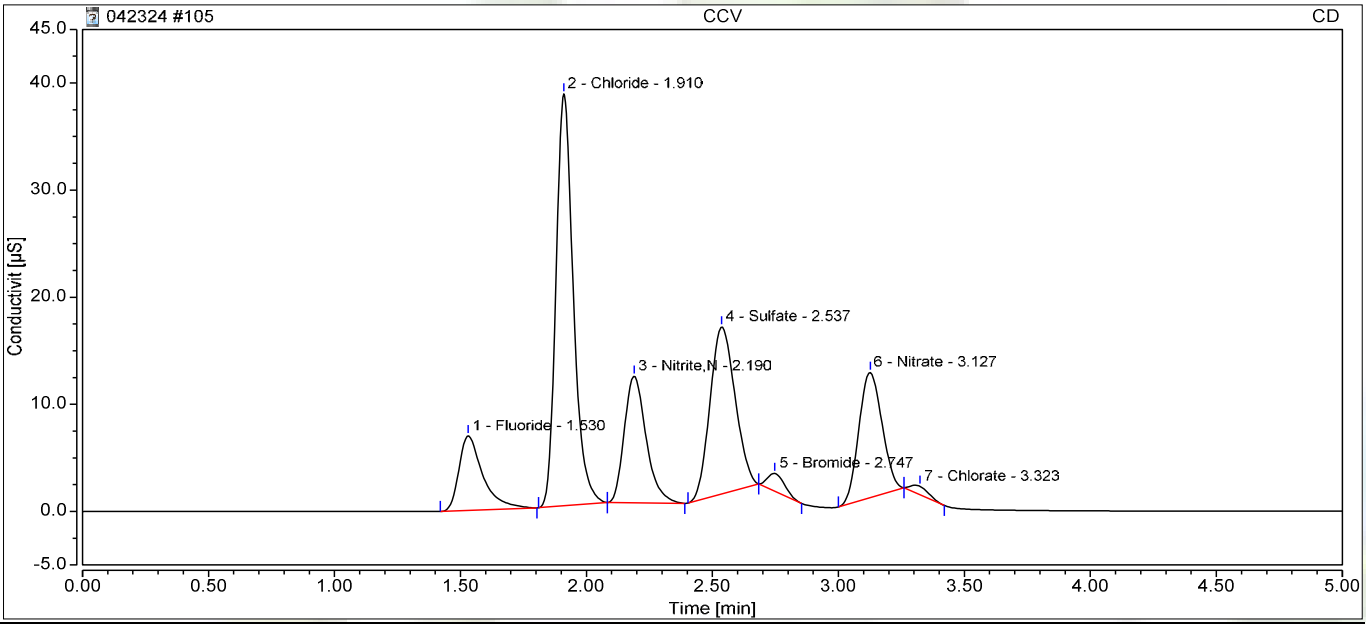
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.357	1.9059	1.9059	1.0000
2	1.91	Chloride	BMB	5.954	39.1812	39.1812	1.0000
3	2.17	Nitrite,N	BMB	0.519	1.6498	1.6498	1.0000
4	2.51	Sulfate	BMB	5.623	60.8628	60.8628	1.0000
5	2.76	Bromide	BMB	0.011	0.3282	0.3282	1.0000
6	3.12	Nitrate	BMB	2.213	6.8549	6.8549	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**	**14.678**		**110.78**	

105 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:	**04/23/2024 22:02**	*Sample Weight:*	**1.0000**

Run Time:



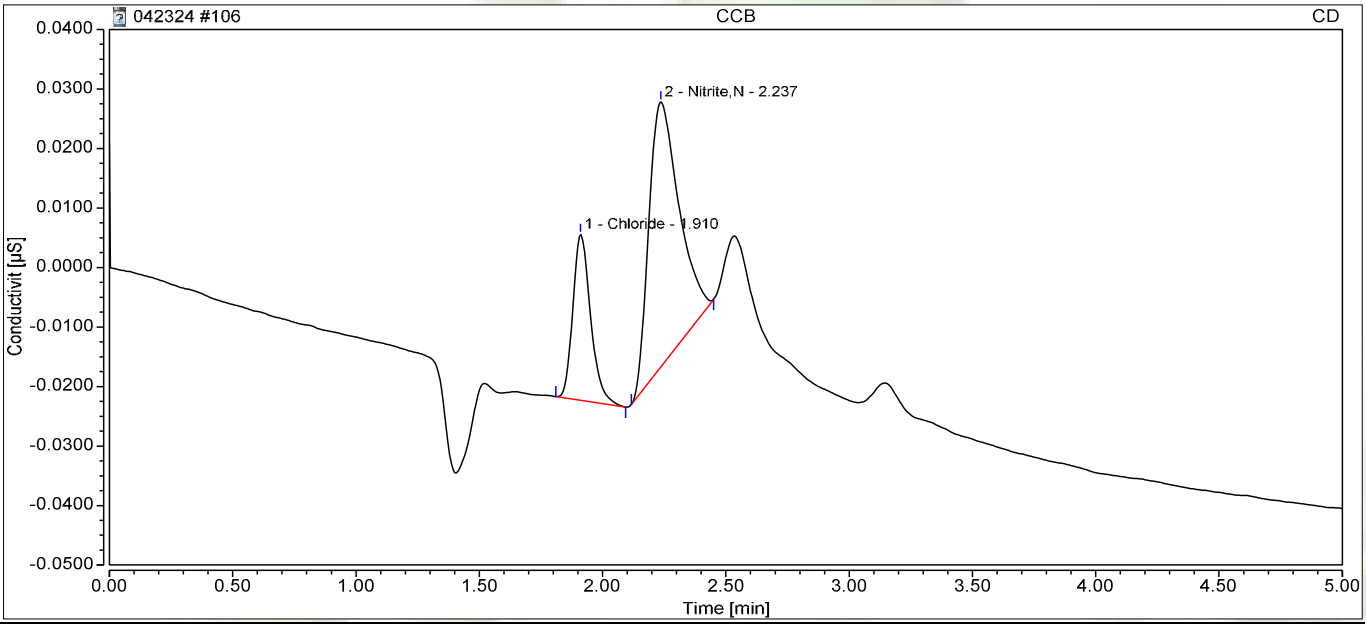
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	0.766	4.0081	4.0081	1.0000
2	1.91	Chloride	BMB	3.060	20.1636	20.1636	1.0000
3	2.19	Nitrite,N	BMB	1.189	3.8726	3.8726	1.0000
4	2.54	Sulfate	BMB	1.799	20.3392	20.3392	1.0000
5	2.75	Bromide	BMB	0.131	3.7155	3.7155	1.0000
6	3.13	Nitrate	BMB	1.248	3.8678	3.8678	1.0000
7	3.32	Chlorate	BMB	0.063	3.2662	3.2662	1.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	1.0000
Total:			**0.000**	**8.255**		**59.23**	

106 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:	**04/23/2024 22:14**	*Sample Weight:*	**1.0000**

Run Time:



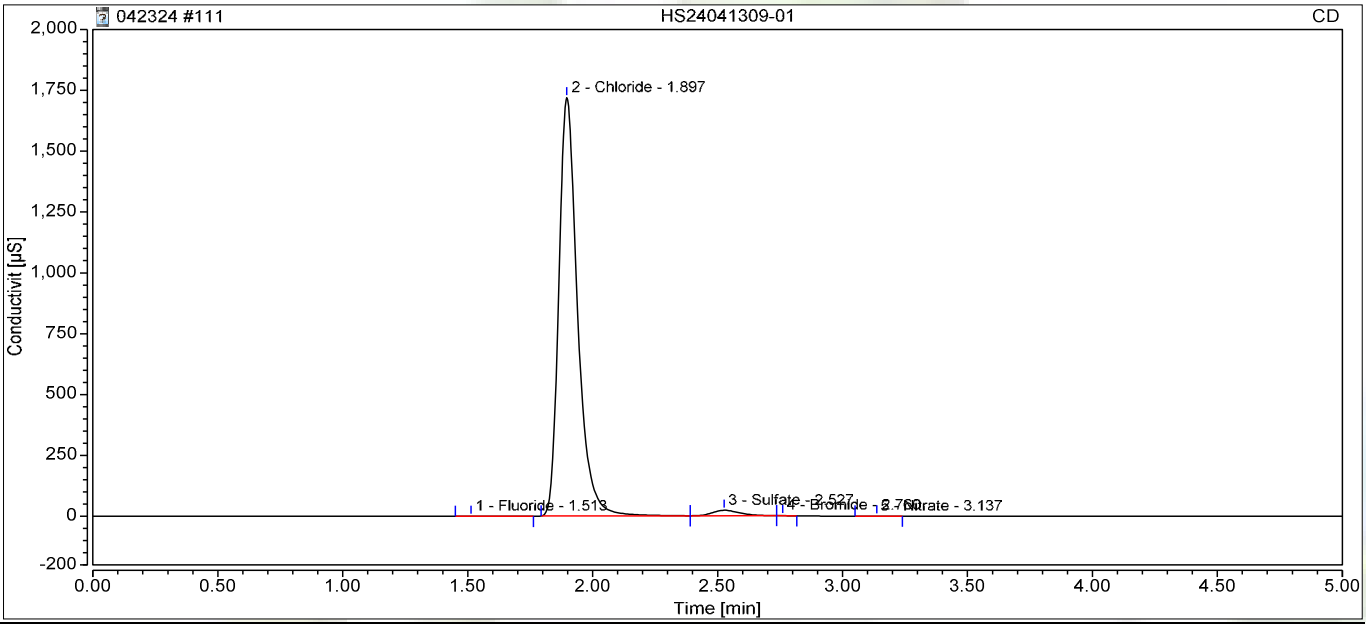
Integration Results

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	1.91	Chloride	BMB	0.002	0.0783	0.0783	1.0000
2	2.24	Nitrite,N	BMB	0.006	0.0227	0.0227	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**	**0.009**		**0.10**	

111 HS24041309-01

Sample Name:	**HS24041309-01**	*Injection Volume:*	**5.00**
Vial Number:	**GE5**	*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:	**04/23/2024 22:49**	*Sample Weight:*	**1.0000**

Run Time:



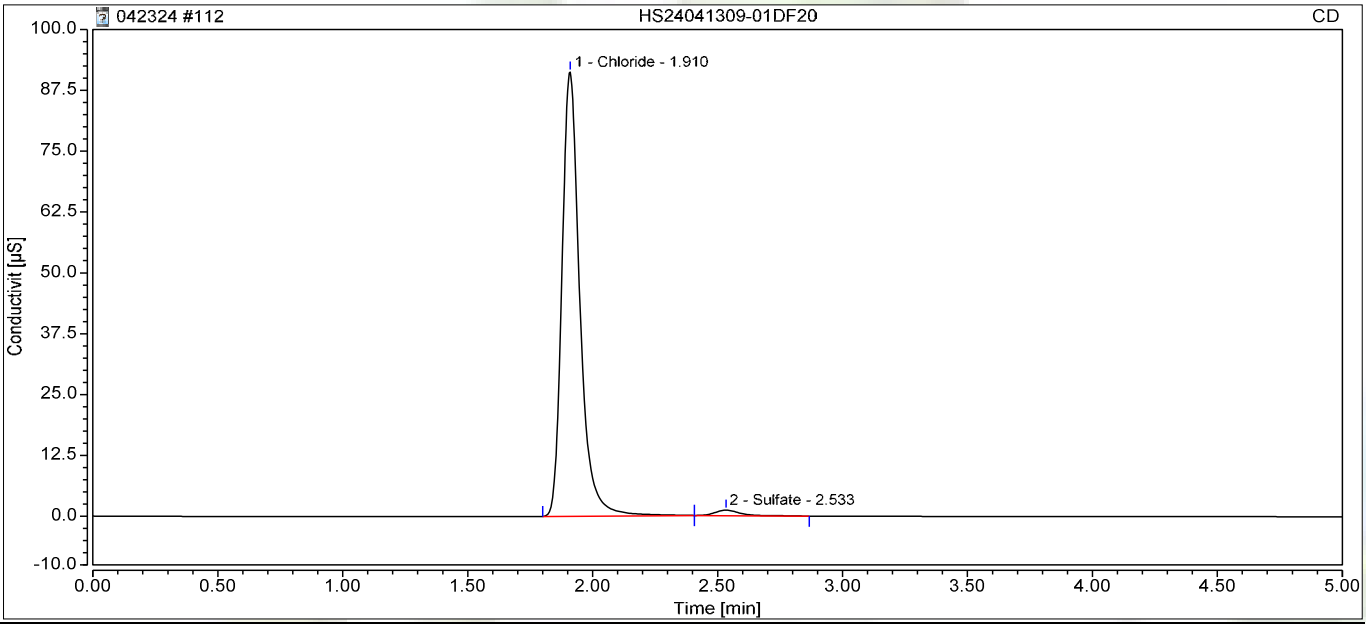
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.51	Fluoride	BMB	0.019	0.1712	0.1712	1.0000
2	1.90	Chloride	BMB	149.339	981.1852	981.1852	1.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	1.0000
3	2.53	Sulfate	BMB	2.753	30.7428	30.7428	1.0000
4	2.76	Bromide	BMB	0.004	0.1101	0.1101	1.0000
5	3.14	Nitrate	BMB	0.002	0.0169	0.0169	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**	**152.116**		**1012.23**	

112 HS24041309-01DF20

Sample Name:	**HS24041309-01DF20**	*Injection Volume:*	**5.00**
Vial Number:	**GE6**	*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:	**04/23/2024 22:55**	*Sample Weight:*	**1.0000**

Run Time:



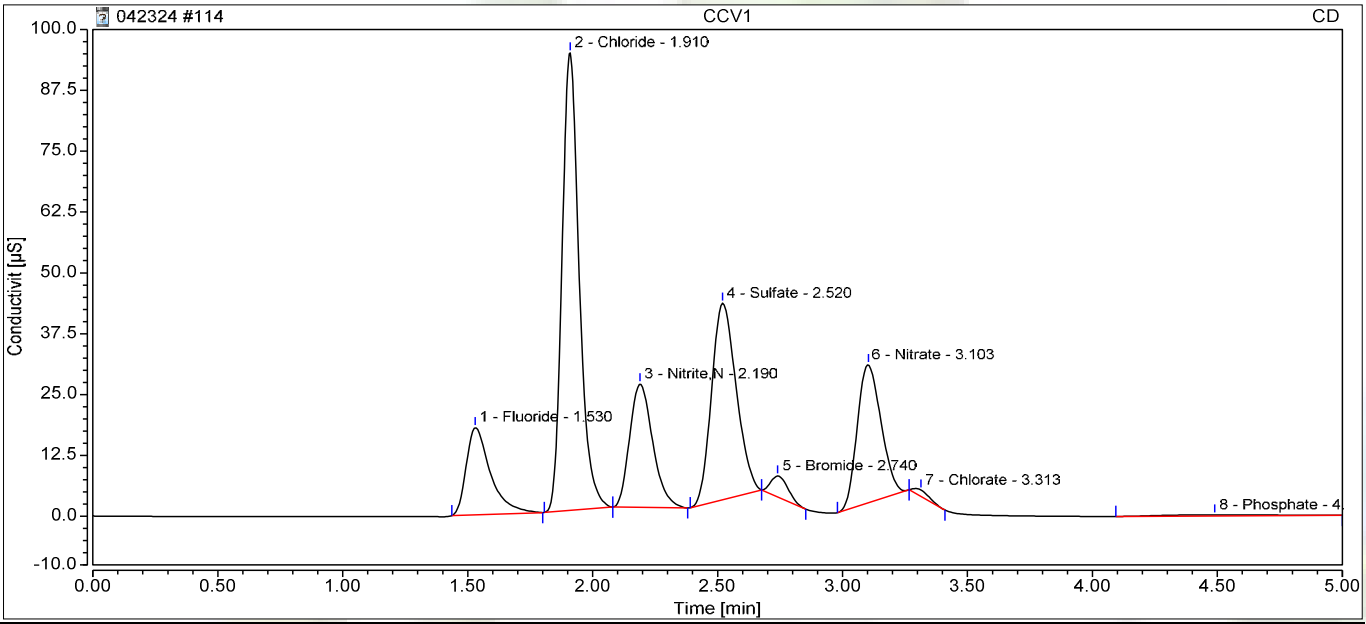
Integration Results

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	1.91	Chloride	BMB	7.574	49.8215	996.4293	20.0000
n.a.	n.a.	Nitrite,N	n.a.	n.a.	n.a.	n.a.	20.0000
2	2.53	Sulfate	BMB	0.131	1.5979	31.9577	20.0000
n.a.	n.a.	Bromide	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Nitrate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Chlorate	n.a.	n.a.	n.a.	n.a.	20.0000
n.a.	n.a.	Phosphate	n.a.	n.a.	n.a.	n.a.	20.0000
Total:			**0.000**	**7.705**		**1028.39**	

114 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:	**04/23/2024 23:25**	*Sample Weight:*	**1.0000**

Run Time:



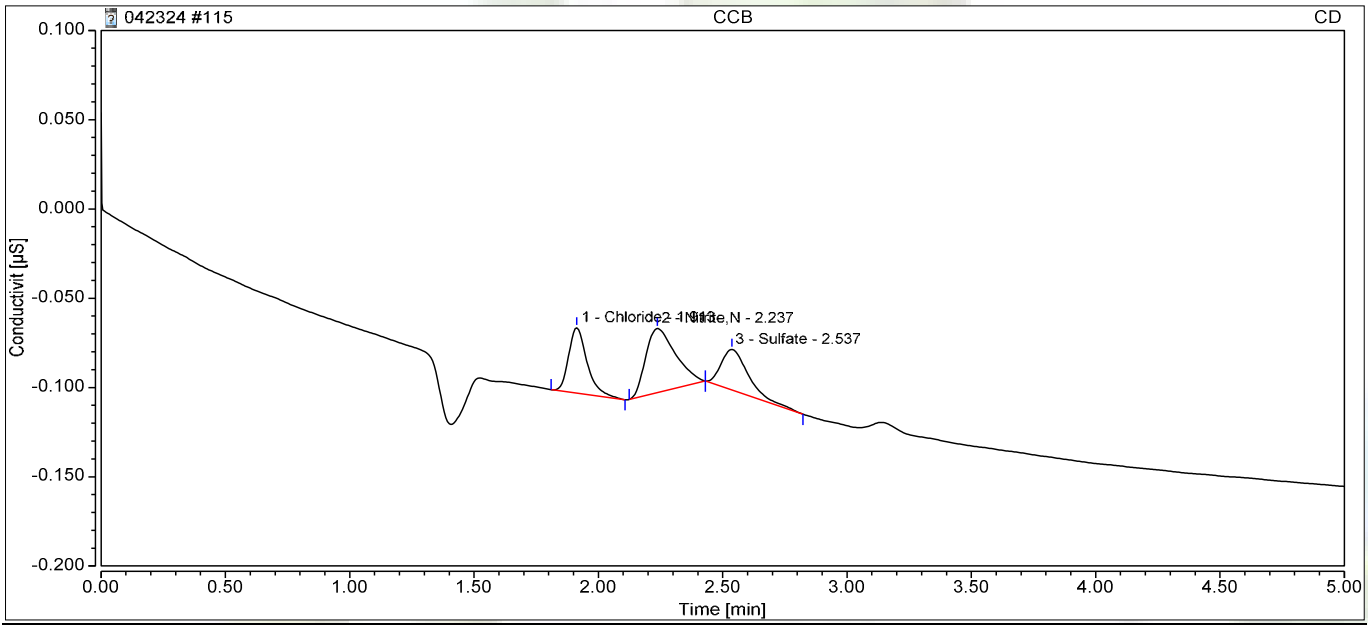
Integration Results

No.	Retention min	Peak Name	Peak Type	Area µS*min	Amount ppm	Concentration ppm	Dilution
1	1.53	Fluoride	BMB	2.005	10.3651	10.3651	1.0000
2	1.91	Chloride	BMB	7.502	49.3470	49.3470	1.0000
3	2.19	Nitrite,N	BMB	2.715	9.4466	9.4466	1.0000
4	2.52	Sulfate	BMB	4.618	50.5110	50.5110	1.0000
5	2.74	Bromide	BMB	0.347	9.3524	9.3524	1.0000
6	3.10	Nitrate	BMB	3.123	9.6678	9.6678	1.0000
7	3.31	Chlorate	BMB	0.093	4.8953	4.8953	1.0000
8	4.49	Phosphate	BMB	0.119	5.6932	5.6932	1.0000
Total:			**0.000**	**20.522**		**149.28**	

115 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:	**04/23/2024 23:31**	*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	1.91	Chloride	BMB	0.003	0.0838	0.0838	1.0000
2	2.24	Nitrite,N	BMB	0.005	0.0186	0.0186	1.0000
3	2.54	Sulfate	BMB	0.003	0.1292	0.1292	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**	**0.011**		**0.23**	

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WorkOrder: HS24041715

Longhorn GW Treatment Plant Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

07-Jun-2024

WorkOrder: HS24041715

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HS24041715 Longhorn GW Treatment Plant Weekly Samples COVER PAGE

ALS WO# HS24041715

HS24041715 Longhorn GW Treatment Plant Weekly Samples Final

ALS WO# HS24041715

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May 01, 2024

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

Work Order: **HS24041715**

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

Dear Marcia Olive,

ALS Environmental received 3 sample(s) on Apr 25, 2024 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
Luis.Aguilar

ALS Houston, US Date: 01-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24041715

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24041715-01	LH18/24-SP650_042424	Water		24-Apr-2024 13:00	25-Apr-2024 09:20	☐
HS24041715-02	LH18/24-SP650_042424_BIX	Water		24-Apr-2024 13:00	25-Apr-2024 09:20	☐
HS24041715-03	LH18/24-SP650_042424_AIX	Water		24-Apr-2024 13:00	25-Apr-2024 09:20	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 01-May-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24041715

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: R465428

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

WetChemistry by Method E415.1

Batch ID: R465320

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

WetChemistry by Method E365.3

Batch ID: R465076

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

ALS Houston, US Date: 01-May-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24041715
Sample ID: LH18/24-SP650_042424
Lab ID:HS24041715-01
Collection Date: 24-Apr-2024 13:00
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
AMMONIA AS N BY E350.3(ISE)		**Method:E350.3**						Analyst: MM
Nitrogen, Ammonia (As N)	**25**	a	**0.10**	**0.20**	**0.20**	**mg/L**	1	29-Apr-2024 15:00
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**						Analyst: MM
Phosphorus, Total Orthophosphate (As P)	**4.80**	a	**1.00**	**2.50**	**2.50**	**mg/L**	100	25-Apr-2024 14:27
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**13.9**	a	**5.00**	**10.0**	**10.0**	**mg/L**	10	27-Apr-2024 23:41

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 01-May-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24041715
Sample ID: LH18/24-SP650_042424_BIX
Lab ID:HS24041715-02
Collection Date: 24-Apr-2024 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	26-Apr-2024 15:17

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 01-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Longhorn GW Treatment Plant Weekly Samples WorkOrder:HS24041715
Sample ID: LH18/24-SP650_042424_AIX Lab ID:HS24041715-03
Collection Date: 24-Apr-2024 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	26-Apr-2024 15:17

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

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ALS Houston, US Date: 01-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24041715

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R465076 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS24041715-01	LH18/24-SP650_042424	24 Apr 2024 13:00			25 Apr 2024 14:27	100
Batch ID: R465224 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24041715-02	LH18/24-SP650_042424_BIX	24 Apr 2024 13:00			26 Apr 2024 15:17	1
HS24041715-03	LH18/24-SP650_042424_AIX	24 Apr 2024 13:00			26 Apr 2024 15:17	1
Batch ID: R465320 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Water	
HS24041715-01	LH18/24-SP650_042424	24 Apr 2024 13:00			27 Apr 2024 23:41	10
Batch ID: R465428 (0)	**Test Name :** AMMONIA AS N BY E350.3(ISE)				**Matrix:** Water	
HS24041715-01	LH18/24-SP650_042424	24 Apr 2024 13:00			29 Apr 2024 15:00	1

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ALS Houston, US Date: 01-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24041715

QC BATCH REPORT

Batch ID: R465076 (0) **Instrument:** UV-2450 **Method:** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978

MBLK Sample ID: **MBLK-R465076** Units: **mg/L** Analysis Date: **25-Apr-2024 14:27**
Client ID: Run ID: **UV-2450_465076** SeqNo: **7972799** 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)	0.0250	0.0250								U

LCS Sample ID: **LCS-R465076** Units: **mg/L** Analysis Date: **25-Apr-2024 14:27**
Client ID: Run ID: **UV-2450_465076** SeqNo: **7972798** 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)	0.273	0.0250	0.25	0	109	80 - 120				

MS Sample ID: **HS24041715-01MS** Units: **mg/L** Analysis Date: **25-Apr-2024 14:27**
Client ID: **LH18/24-SP650_042424** Run ID: **UV-2450_465076** SeqNo: **7972803** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	32.6	2.50	25	4.8	111	80 - 120				

MSD Sample ID: **HS24041715-01MSD** Units: **mg/L** Analysis Date: **25-Apr-2024 14:27**
Client ID: **LH18/24-SP650_042424** Run ID: **UV-2450_465076** SeqNo: **7972802** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	32.5	2.50	25	4.8	111	80 - 120	32.6	0.307	20	

The following samples were analyzed in this batch: HS24041715-01

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ALS Houston, US Date: 01-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24041715

QC BATCH REPORT

Batch ID: R465320 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-04272024** Units: **mg/L** Analysis Date: **27-Apr-2024 22:03**
Client ID: Run ID: **TOC_05_465320** SeqNo: **7978483** 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-04272024** Units: **mg/L** Analysis Date: **27-Apr-2024 22:16**
Client ID: Run ID: **TOC_05_465320** SeqNo: **7978484** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.926	1.00	10	0	99.3	85 - 115				

LCSD Sample ID: **LCSD-04272024** Units: **mg/L** Analysis Date: **27-Apr-2024 22:28**
Client ID: Run ID: **TOC_05_465320** SeqNo: **7978485** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.922	1.00	10	0	99.2	85 - 115	9.926	0.0403	20	

MS Sample ID: **HS24041820-01MS** Units: **mg/L** Analysis Date: **28-Apr-2024 01:07**
Client ID: Run ID: **TOC_05_465320** SeqNo: **7978495** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	26.34	1.00	10	17.13	92.1	80 - 120				

The following samples were analyzed in this batch: HS24041715-01

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ALS Houston, US Date: 01-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24041715

QC BATCH REPORT

Batch ID: R465428 (0) **Instrument: WetChem_HS** **Method: AMMONIA AS N BY E350.3(ISE)**

MBLK Sample ID: **MBLK-R465428** Units: **mg/L** Analysis Date: **29-Apr-2024 15:00**
Client ID: Run ID: **WetChem_HS_465428** SeqNo: **7981145** 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)	0.20	0.20								U

MBLK Sample ID: **ICB R465428** Units: **mg/L** Analysis Date: **29-Apr-2024 15:00**
Client ID: Run ID: **WetChem_HS_465428** SeqNo: **7981151** 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)	0.20	0.20								U

LCS Sample ID: **LCS-R465428** Units: **mg/L** Analysis Date: **29-Apr-2024 15:00**
Client ID: Run ID: **WetChem_HS_465428** SeqNo: **7981144** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	10.23	0.20	10	0	102	80 - 120				

MS Sample ID: **HS24041715-01MS** Units: **mg/L** Analysis Date: **29-Apr-2024 15:00**
Client ID: **LH18/24-SP650_042424** Run ID: **WetChem_HS_465428** SeqNo: **7981153** 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)	35.92	0.20	10	25.29	106	80 - 120				

MSD Sample ID: **HS24041715-01MSD** Units: **mg/L** Analysis Date: **29-Apr-2024 15:00**
Client ID: **LH18/24-SP650_042424** Run ID: **WetChem_HS_465428** SeqNo: **7981152** 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)	35.89	0.20	10	25.29	106	80 - 120	35.92	0.0668	20	

The following samples were analyzed in this batch: HS24041715-01

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ALS Houston, US Date: 01-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: **HS24041715**

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

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 01-May-24

Sample Receipt Checklist

Work Order ID: HS24041715 **Date/Time Received:** **25-Apr-2024 09:20**

Client Name: Bhate Environmental **Received by:** **Jacob Coronado**

Completed By: /S/ Jacob Coronado (eSignature) 25-Apr-2024 10:49 (Date/Time) **Reviewed by:** /S/ Luis.Aguilar (eSignature) 29-Apr-2024 09:23 (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):	3.2uc/3.3c	ir31	
Cooler(s)/Kit(s):	50681		
Date/Time sample(s) sent to storage:	04/25/2024 1049		
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:

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HS24041715

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

CHAIN OF CUSTODY

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

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT WEEKLY SAMPLES**	
Prepared By: Scott Beesinger	P.O. Number BILL to PCI

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: AMMONIA-N	TOTAL ORGANIC CARBON	ORTHO-PHOSPHATE	PERCHLORATE							Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_042424	Water	04/24/24 / 13:00		3	X	X									H2SO4	
LH18/24-SP650_042424	Water	04/24/24 / 13:00		1			X								NONE	
LH18/24–SP650_042424_BIX	Water	04/24/24 / 13:00		1				X							NONE	
LH18/24- SP650_042424_AIX	Water	04/24/24 / 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	04/24/24	13:30								4/25/24	0920

For Lab Use Only

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

Remarks:

50481 3.2

IR3

(Word) S:\...ces\Forms\Chain of Custody - Bi-Weekly

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ORIGIN ID:SGRA (903) 930-6193
SCOTT BEESINER
BHATE ENVIRONMENTAL ASSOCIATES
1203-B EAST GRAND AVE. PMB202

MARSHALL, TX 75670
UNITED STATES US

SHIP DATE: 06JUN23
ACTWGT: 1.00 LB MAN
CAD: 0221247/CAFE3707
DIMS: 26x14x14 IN

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: LHAAP-18 24 (1 OF 2)=BD 93545-JG
RMA:

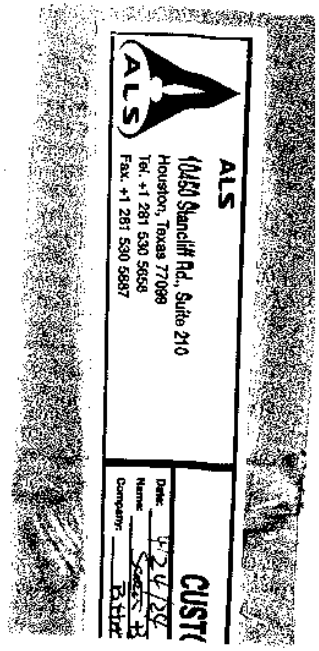
FedEx Express

THU - 25 APR AA
PRIORITY OVERNIGHT

TRK# 0221 6230 3000 9626

77099
TX-US
IAH

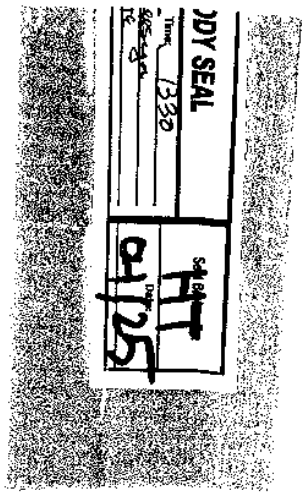
AB SGRA



ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUST

Date: 5/24/23
Name:
Company:



)DY SEAL

Time: 1330

SHIPPED BY: HT
DATE: 05/25

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April 26, 2024 Service Request No:E2400416

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24041715

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory April 25, 2024
For your reference, these analyses have been assigned our service request number **E2400416.**

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 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

HKelany

Hussam Kelany
Project Manager

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

Certificate of Analysis

ALS Environmental - Houston 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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Client:	ALS Environmental - US	Service Request No.:	E2400416
Project:	HS24041715	Date Received:	04/25/24
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 04/25/24.

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:

EQ2400199: 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:**E2400416
Project: HS24041715

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400416-001	LH18/24-SP650_042424_BIX	4/24/2024	1300
E2400416-002	LH18/24-SP650_042424_AIX	4/24/2024	1300

Service Request Summary

Folder #: **E2400416**
Client Name: ALS Environmental - US
Project Name: HS24041715
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 04/25/24
Internal Due Date: 4/26/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4A
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400416-001	LH18/24-SP650_042424_BIX	Water	04/24/24 1300	**IV**
E2400416-002	LH18/24-SP650_042424_AIX	Water	04/24/24 1300	**IV**

Service Request Summary

Folder #: **E2400416**
Client Name: ALS Environmental - US
Project Name: HS24041715
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 04/25/24
Internal Due Date: 4/26/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4A
Pressure Gas:

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.

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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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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L24-240	4/30/2026
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	TX-C24-00109	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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E2400416
ALS Group USA, Corp.
HS24041715
5

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **25453**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24041715
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24041715-02**	**LH18/24-SP650_042424_BIX**	**Water**	**24 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			26 Apr 2024
2.	**HS24041715-03**	**LH18/24-SP650_042424_AIX**	**Water**	**24 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			26 Apr 2024

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 4/25/24 0920

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

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Sample Receipt Checklist

Work Order ID: HS24041715 **Date/Time received:** 25 Apr 2024 09:20

Client name: Bhate Environmental Associates, Inc. **Received by:** Jacob Coronado

Completed/By: 25 Apr 2024 10:49 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** _____ (Date/Time) _____ (eSignature)

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	COC ID(s):
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): 3.2uc/3.3c ir31

Cooler Information: 1 Cooler(s), 50681

Date/Time sample(s) sent to storage: 04/25/2024 1049

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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SAMPLE ACCEPTANCE POLICY

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

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

- ✓ Intact on outside of cooler, signed and dated

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

The following is required on each COC:

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

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

Sample Integrity (mandatory):

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

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

Temperature Requirement (varies by sample matrix):

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

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

Preparation Information Benchsheets

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Preparation Information Benchsheet

Prep Run#: 437494 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/NVOSS **Prep Method:** Method **Prep Date/Time:** 4/25/24 12:30

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400416-001	LH18/24-SP650_042424_BIX	.01	6850/ClO4 DOD			Water	10mL	
2	E2400416-002	LH18/24-SP650_042424_AIX	.01	6850/ClO4 DOD			Water	10mL	
3	EQ2400199-01	MB		6850/ClO4 DOD			Liquid	10mL	
4	EQ2400199-03	LCS		6850/ClO4 DOD			Liquid	10mL	
5	EQ2400199-04	DLCS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400199-03 10.00µL EQ2400199-04 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400416-001 100.00µL E2400416-002 100.00µL EQ2400199-01 100.00µL EQ2400199-03 100.00µL EQ2400199-04 100.00µL

Preparation Materials

Methanol HPLC MeOH Methanol HPLC cg3/24 (234252) WATER LCMS GRADE 4 LITER BOTTLE (234679)

Preparation Steps

Step: Preparation
Started: 4/25/24 12:30
Finished: 4/25/24 12:33
By: NVOSS
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400416
Project:	HS24041715	**Date Collected:**	4/24/24 1300
Sample Matrix:	Water	**Date Received:**	4/25/24
Sample Name:	LH18/24-SP650_042424_BIX	**Units:**	µg/L
Lab Code:	E2400416-001	**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	**3.03**		0.100	0.0500	0.0250	1	4/25/24	4/25/24 14:02	437494	839045	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400416
Project:	HS24041715	**Date Collected:**	4/24/24 1300
Sample Matrix:	Water	**Date Received:**	4/25/24
Sample Name:	LH18/24-SP650_042424_AIX	**Units:**	µg/L
Lab Code:	E2400416-002	**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	ND	U	0.100	0.0500	0.0250	1	4/25/24	4/25/24 14:07	437494	839045	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400416
Project:	HS24041715	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400199-01	**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	4/25/24	4/25/24 15:26	437494	839045	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400416
Project:	HS24041715	**Date Analyzed:**	4/25/24
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:	437494

	Lab Control Sample EQ2400199-03			Duplicate Lab Control Sample EQ2400199-04					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.107	0.100	107	0.0933	0.100	93	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.

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Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400416
Project:	HS24041715	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400199-03	**Basis:**	NA

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

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.107**		0.100	0.0500	0.0250	1	4/25/24	4/25/24 15:31	437494	839045	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400416
Project:	HS24041715	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400199-04	**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	**0.0933**	J	0.100	0.0500	0.0250	1	4/25/24	4/25/24 15:37	437494	839045	

HS24041715 NIT-AMM_W E350.3-ISE WETCHEM

ALS WO# HS24041715

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

NH3 Amm ISE 350.2

Logbook **32521**

Ion Selective Electrode Logbook

Analyst: mm/QB

Date: 4/29/24 1500

Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F

Probe Calibration Date: 4-29-24

Cal Std ID: 3251

Probe ID: NH3-10

Std Level	mV	Conc., mg/L:
STD 1 (mg/L): 0.2	129.6 mV	0.198
STD 2 (mg/L): 1	98.5	0.992
STD 3 (mg/L): 5	58.7	4.999

Sodium Thiosulfate ID:

Std Level	mV	Conc., mg/L:
STD 4 (mg/L): 10	43.3	10.024
STD 5 (mg/L): 50	2.6	50.668

LSC / MS Spike ID: 31120604

ICV Cal STD ID: 3251020804

DPD Reagent ID: 310608715

ICAL Date & Slope: 98.0% -57.80

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/−)	Comments
ICV		50	50		10.517			
ICB		↓	↓		0.005			
MBK		25	25		0.004			
LCS		↓	↓		10.234			
LCS		50	50		10.316			
LCS					10.565			
LCS					10.850			
HA 4-29-24 ~~LCS 1562-01~~					1.588		-LS	
1664-01					1.317			
1254-01					1.252			
1715-01					25.288			
1809-01					0.367			
CCV					10.313			
CCB					0.006			
1809-02					0.284		-L	
1809-03					0.029			
1809-04					0.018			
1826-01					0.014			
1723-01					0.013			
1800-01					1.443			
1715-01 MS					35.917			
1-01 MSD					35.893			
CCV					10.271			
CCB					0.005			

Batch ID: 405422

Reported By: MM HM

Reviewed By: TH

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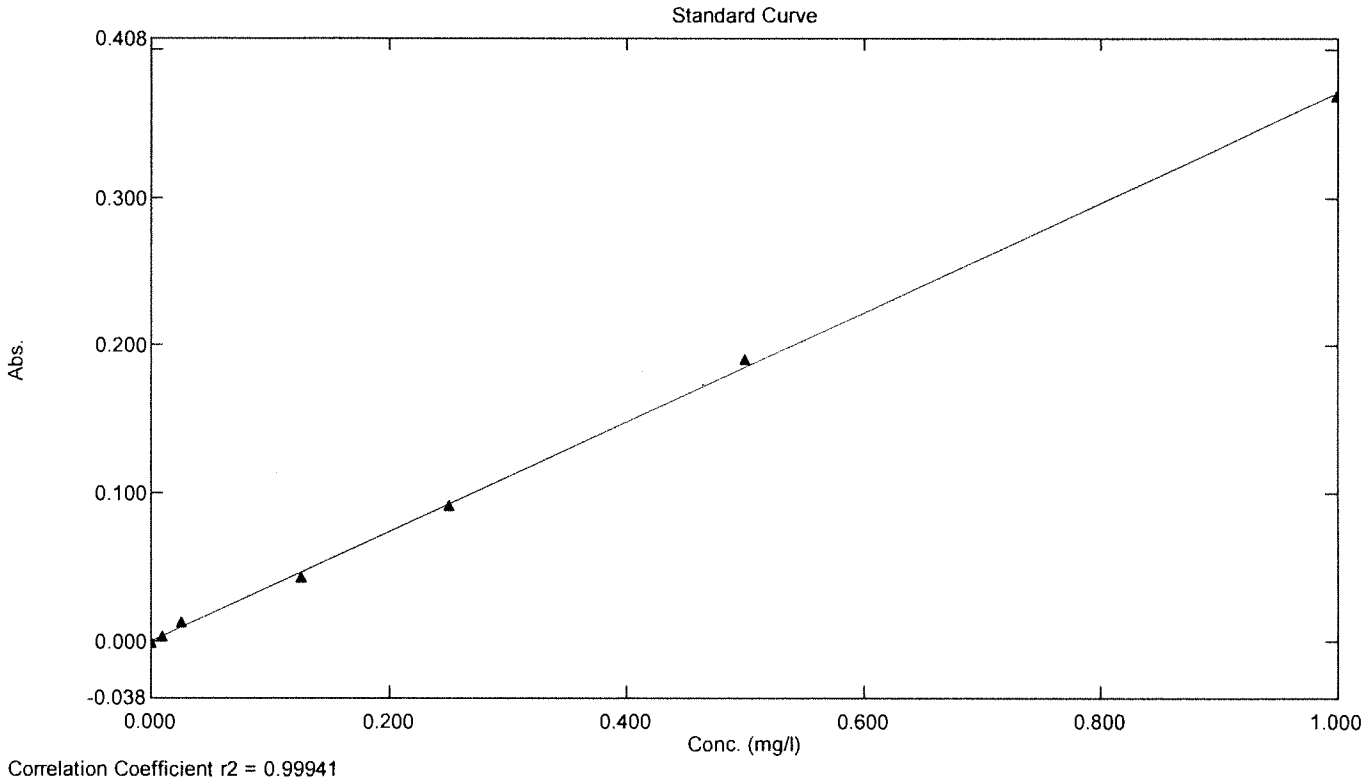
HS24041715 P-ORTHO WETCHEM

ALS WO# HS24041715

Standard Table Report

06/06/2024 10:27:38 AM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\04252024P_TORTHO.pho



Correlation Coefficient r2 = 0.99941

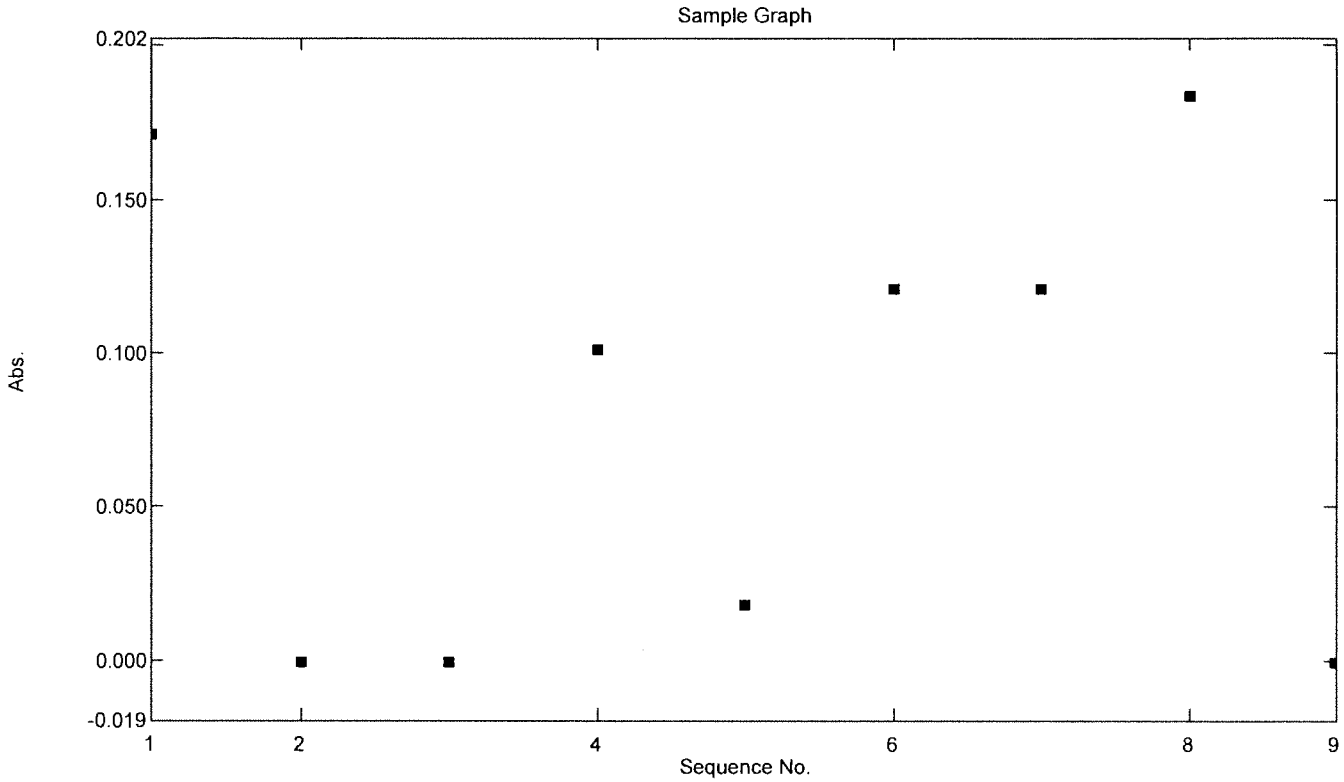
Standard Table

	Sample ID	Type	Ex	Conc	WL650.0	Wgt.Factor	Comments
1	STD1	Standard		0.000	-0.001	1.000	
2	STD2	Standard		0.010	0.003	1.000	
3	STD3	Standard		0.025	0.013	1.000	
4	STD4	Standard		0.125	0.043	1.000	
5	STD5	Standard		0.250	0.091	1.000	
6	STD6	Standard		0.500	0.191	1.000	
7	STD7	Standard		1.000	0.369	1.000	06/06/2024
8							

Sample Table Report

06/06/2024 10:27:42 AM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\04252024P_TORTHO.pho



Sample Table

	Sample ID	Date	Time	Conc	WL650.	Comments
1	CCV	04/25/2024	02:14:47 PM	0.461	0.171	
2	CCB	04/25/2024	02:15:06 PM	-0.002	-0.001	
3	MBLK	04/25/2024	02:15:08 PM	-0.002	-0.001	
4	LCS	04/25/2024	02:15:33 PM	0.273	0.101	
5	HS20441715.01	04/25/2024	02:16:41 PM	0.048	0.018	PF100X
6	HS24041715.01MS	04/25/2024	02:16:59 PM	0.326	0.121	PF100X
7	HS24041715.01MSD	04/25/2024	02:17:01 PM	0.325	0.121	PF100X
8	CCV1	04/25/2024	02:18:18 PM	0.495	0.184	
9	CCB1	04/25/2024	02:18:33 PM	-0.002	-0.001	
10						

HS24041715 Wetchem TOC ICAL TABLE

ALS WO# HS24041715

C:\TOC-L\Data\2024_04_25_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Standard	NPOC	CAL	3100608307	04.25.2024.	1.000		
2	Unknown	NPOC	ICV	3100607917	04.25.2024.	1.000	NPOC:9.687mg/L	
3	Unknown	NPOC	ICB		04.25.2024.	1.000	NPOC:0.2979mg/L	
4	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.03mg/L	
5	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.06766mg/	
6	Unknown	NPOC	MBLK-04252024		04.25.2024.	1.000	NPOC:0.1478mg/L	
7	Unknown	NPOC	LCS-04252024	3100607917	04.25.2024.	1.000	NPOC:5.144mg/L	
8	Unknown	NPOC	LCSD-04052024		04.25.2024.	1.000	NPOC:5.082mg/L	
9	Unknown	NPOC	HS24041423-01		04.25.2024.	1.000	NPOC:6.750mg/L	
10	Unknown	NPOC	HS24041423-01MS		04.25.2024.	1.000	NPOC:15.86mg/L	
11	Unknown	NPOC	HS24041558-01		04.25.2024.	1.000	NPOC:0.01517mg/	
12	Unknown	NPOC	HS24040953-01		04.25.2024.	1.000	NPOC:10.42mg/L	
13	Unknown	NPOC	HS24040953-04		04.25.2024.	1.000	NPOC:7.332mg/L	
14	Unknown	NPOC	HS24040954-01		04.25.2024.	1.000	NPOC:4.335mg/L	
15	Unknown	NPOC	HS24040954-02		04.25.2024.	1.000	NPOC:8.586mg/L	
16	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.04mg/L	
17	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09033mg/	
18	Unknown	NPOC	HS24040954-04		04.25.2024.	1.000	NPOC:4.829mg/L	
19	Unknown	NPOC	HS24040954-05		04.25.2024.	1.000	NPOC:0.8624mg/L	
20	Unknown	NPOC	HS24041487-01		04.25.2024.	1.000	NPOC:22.80mg/L	
21	Unknown	NPOC	HS24041698-01DF10		04.25.2024.	1.000	NPOC:0.9665mg/L	
22	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.13mg/L	
23	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09643mg/	
24	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.67mg/L	
25	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1426mg/L	
26	Unknown	NPOC	MBLK-04252024		TOC_W 906	1.000	NPOC:0.1161mg/L	
27	Unknown	NPOC	LCS-04252024	3100607917	TOC_W 906	1.000	NPOC:5.011mg/L	
28	Unknown	NPOC	LCSD-04052024		TOC_W 906	1.000	NPOC:5.047mg/L	
29	Unknown	NPOC	HS24041538-14DF10		TOC_W 906	1.000	NPOC:5.009mg/L	
30	Unknown	NPOC	HS24041538-15DF10		TOC_W 906	1.000	NPOC:3.637mg/L	
31	Unknown	NPOC	HS24041538-16DF10		TOC_W 906	1.000	NPOC:3.855mg/L	
32	Unknown	NPOC	HS24041538-17DF10		TOC_W 906	1.000	NPOC:6.520mg/L	
33	Unknown	NPOC	HS24040801-07		TOC_W 906	1.000	NPOC:4.786mg/L	
34	Unknown	NPOC	HS24040801-07MS		TOC_W 906	1.000	NPOC:12.22mg/L	
35	Unknown	NPOC	HS24040885-01		TOC_W 906	1.000	NPOC:59.40mg/L	
36	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.81mg/L	
37	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2311mg/L	
38	Unknown	NPOC	HS24040885-02		TOC_W 906	1.000	NPOC:40.86mg/L	
39	Unknown	NPOC	HS24040885-03		TOC_W 906	1.000	NPOC:44.30mg/L	
40	Unknown	NPOC	HS24040885-06		TOC_W 906	1.000	NPOC:76.29mg/L	
41	Unknown	NPOC	HS24041341-11DF10		TOC_W 906	1.000	NPOC:9.155mg/L	
42	Unknown	NPOC	HS24041341-12DF10		TOC_W 906	1.000	NPOC:2.129mg/L	
43	Unknown	NPOC	HS24041341-13DF10		TOC_W 906	1.000	NPOC:20.08mg/L	
44	Unknown	NPOC	HS24041341-14DF10		TOC_W 906	1.000	NPOC:2.533mg/L	
45	Unknown	NPOC	HS24041604-08DF10		TOC_W 906	1.000	NPOC:1.071mg/L	
46	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.86mg/L	
47	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1935mg/L	

	Status	Date / Time	Vial
1	Completed	4/25/2024 8:19:26	1, 2, 3, 4, 5,
2	Completed	4/25/2024 8:31:26	8
3	Completed	4/25/2024 8:51:24	1
4	Completed	4/25/2024 9:14:05	9
5	Completed	4/25/2024 9:23:12	10
6	Completed	4/25/2024 9:33:46	11
7	Completed	4/25/2024 9:45:46	12
8	Completed	4/25/2024 9:57:15	13
9	Completed	4/25/2024 10:08:5	14
10	Completed	4/25/2024 10:21:0	15
11	Completed	4/25/2024 10:29:5	16
12	Completed	4/25/2024 10:42:5	17
13	Completed	4/25/2024 10:54:4	18
14	Completed	4/25/2024 11:05:5	19
15	Completed	4/25/2024 11:17:2	20
16	Completed	4/25/2024 11:40:1	9
17	Completed	4/25/2024 11:49:1	10
18	Completed	4/26/2024 12:11:1	21
19	Completed	4/26/2024 12:21:3	22
20	Completed	4/26/2024 12:33:5	23
21	Completed	4/26/2024 12:44:1	24
22	Completed	4/26/2024 1:06:44	9
23	Completed	4/26/2024 1:15:39	10
24	Completed	4/26/2024 1:34:03	25
25	Completed	4/26/2024 1:45:52	26
26	Completed	4/26/2024 2:00:42	11
27	Completed	4/26/2024 2:14:48	12
28	Completed	4/26/2024 2:29:16	13
29	Completed	4/26/2024 2:46:43	27
30	Completed	4/26/2024 3:00:36	28
31	Completed	4/26/2024 3:14:21	29
32	Completed	4/26/2024 3:28:38	30
33	Completed	4/26/2024 3:42:41	31
34	Completed	4/26/2024 3:57:39	32
35	Completed	4/26/2024 4:13:23	33
36	Completed	4/26/2024 4:31:56	25
37	Completed	4/26/2024 4:43:46	26
38	Completed	4/26/2024 5:02:09	34
39	Completed	4/26/2024 5:17:31	35
40	Completed	4/26/2024 5:33:05	36
41	Completed	4/26/2024 5:47:28	37
42	Completed	4/26/2024 6:00:56	38
43	Completed	4/26/2024 6:16:22	39
44	Completed	4/26/2024 6:29:56	40
45	Completed	4/26/2024 6:42:50	41
46	Completed	4/26/2024 7:01:22	25
47	Completed	4/26/2024 7:12:55	26

HS24041715 Wetchem TOC IN ICAL

ALS WO# HS24041715

TOC-Control L Report

2024_04_25_001.tlx

Instr.Information

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

Cal. Curve

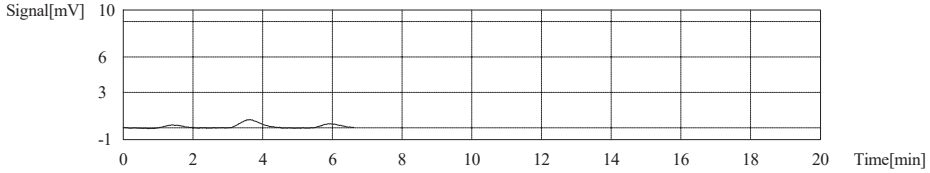
Sample Name:	CAL
Sample ID:	3100608307
Cal. Curve:	04.25.2024.2024_04_25_18_47_38.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.030	50uL	1.000	*******		4/25/2024 7:02:15 PM
2	2.685	50uL	1.000	*******		4/25/2024 7:05:10 PM
3	1.273	50uL	1.000	*******		4/25/2024 7:07:50 PM

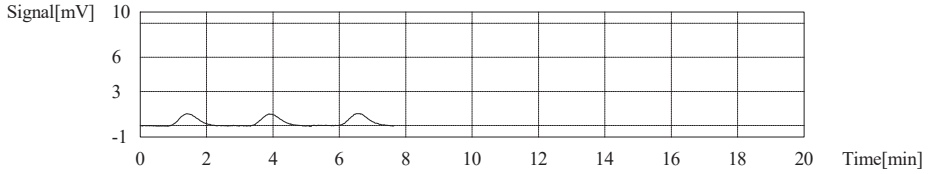
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 1.663



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.254	50uL	1.000	*******		4/25/2024 7:12:34 PM
2	4.362	50uL	1.000	*******		4/25/2024 7:15:50 PM
3	4.292	50uL	1.000	*******		4/25/2024 7:18:54 PM

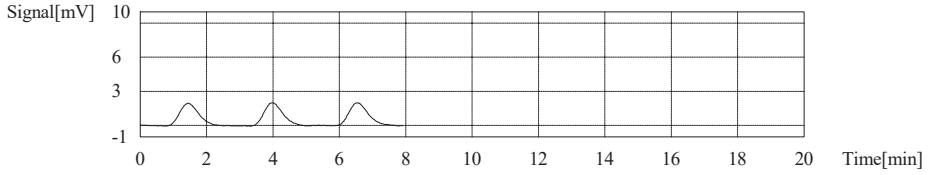
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 4.303



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.991	50uL	1.000	*******		4/25/2024 7:23:28 PM
2	8.033	50uL	1.000	*******		4/25/2024 7:26:37 PM
3	8.185	50uL	1.000	*******		4/25/2024 7:29:59 PM

Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 8.070



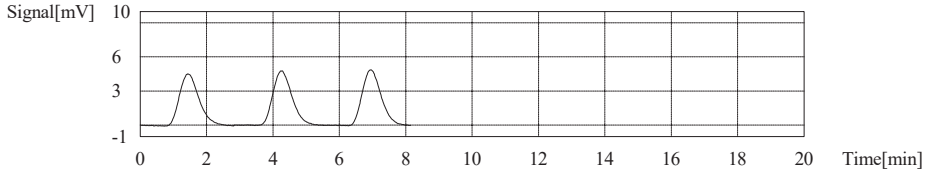
TOC-Control L Report

2024_04_25_001.tlx

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	18.78	50uL	1.000	*******		4/25/2024 7:34:48 PM
2	19.04	50uL	1.000	*******		4/25/2024 7:38:05 PM
3	19.36	50uL	1.000	*******		4/25/2024 7:41:18 PM

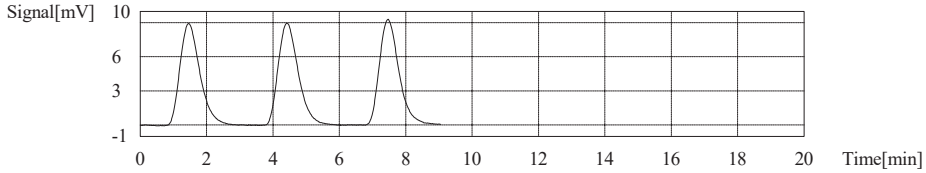
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 19.06



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	37.50	50uL	1.000	*******		4/25/2024 7:46:16 PM
2	37.56	50uL	1.000	*******		4/25/2024 7:49:55 PM
3	37.73	50uL	1.000	*******		4/25/2024 7:53:31 PM

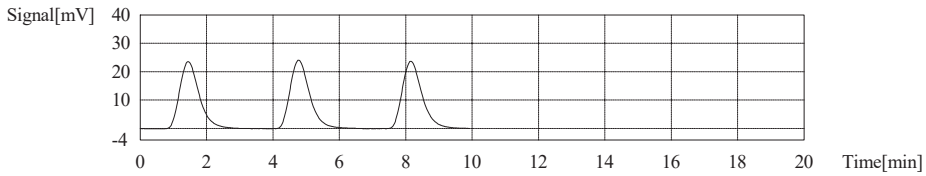
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 37.60



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	96.41	50uL	1.000	*******		4/25/2024 7:58:51 PM
2	97.85	50uL	1.000	*******		4/25/2024 8:02:48 PM
3	97.79	50uL	1.000	*******		4/25/2024 8:06:36 PM

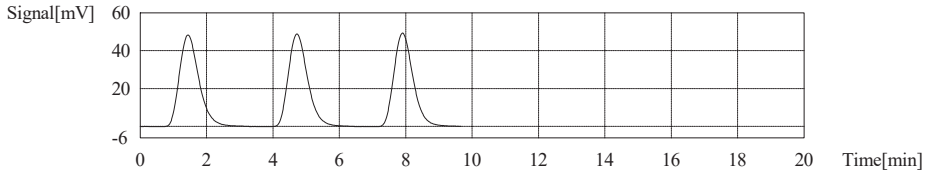
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 97.35



Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.6	50uL	1.000	*******		4/25/2024 8:11:53 PM
2	196.0	50uL	1.000	*******		4/25/2024 8:15:38 PM
3	197.2	50uL	1.000	*******		4/25/2024 8:19:26 PM

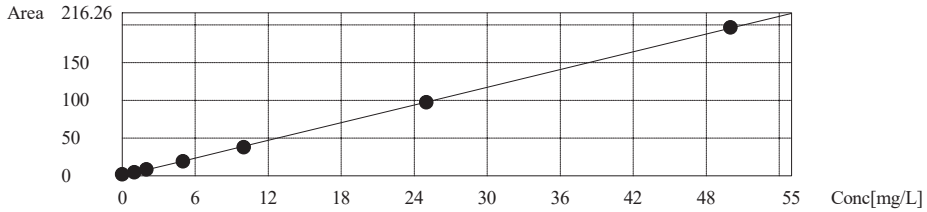
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 196.6



TOC-Control L Report

2024_04_25_001.tlx

Slope:	3.917
Intercept	0.000
r^2	0.9998
r	0.9999
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607917
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

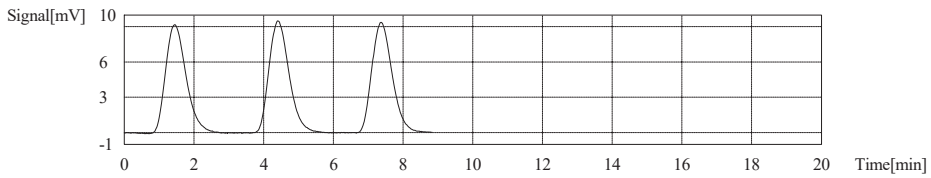
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.687mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.83	9.657mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:24:23 PM
2	38.23	9.759mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:27:56 PM
3	37.78	9.644mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:31:26 PM

Mean Area	37.95
Mean Conc.	9.687mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2979mg/L

1. Det

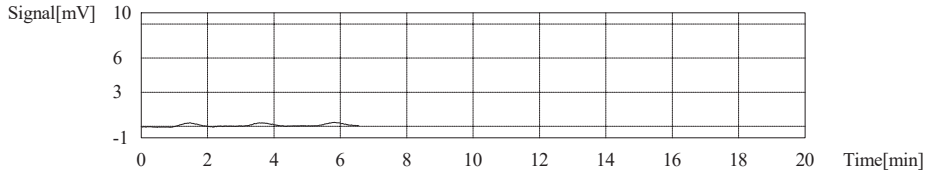
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.387	0.3541mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:45:53 PM
2	1.077	0.2749mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:48:39 PM
3	1.037	0.2647mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:51:24 PM

TOC-Control L Report

2024_04_25_001.tlx

Mean Area	1.167
Mean Conc.	0.2979mg/L



HS24041715 Wetchem TOC IN

ALS WO# HS24041715

TOC-Control L Report

2024_04_27_001.tlx

Instr.Information

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

Sample

Sample Name:	CCV
Sample ID:	325102305
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

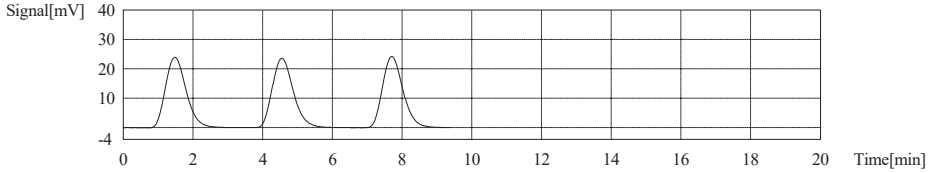
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.19mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.23	25.08mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 9:27:50 PM
2	98.71	25.20mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 9:31:34 PM
3	99.10	25.30mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 9:35:20 PM

Mean Area	98.68
Mean Conc.	25.19mg/L



Sample

Sample Name:	CCB
Sample ID:	
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1102mg/L

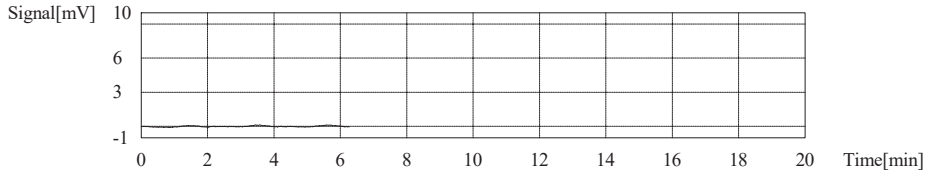
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4527	0.1156mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 9:39:24 PM
2	0.4165	0.1063mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 9:42:05 PM
3	0.4258	0.1087mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 9:44:47 PM

TOC-Control L Report

Mean Area 0.4317
Mean Conc. 0.1102mg/L



Sample

Sample Name: MBLK-04272024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

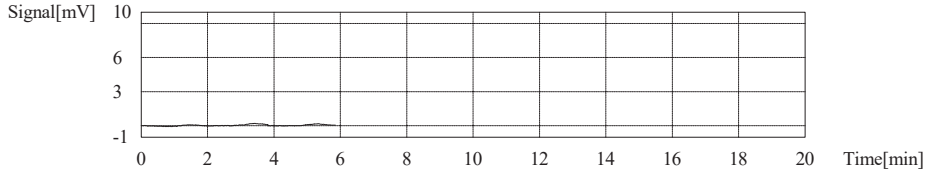
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07772mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2429	0.06201mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 9:58:48 PM
2	0.2469	0.06303mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 10:01:18 PM
3	0.4236	0.1081mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 10:03:55 PM

Mean Area 0.3045
Mean Conc. 0.07772mg/L



Sample

Sample Name: LCS-04272024
Sample ID: 3100607917
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.926mg/L

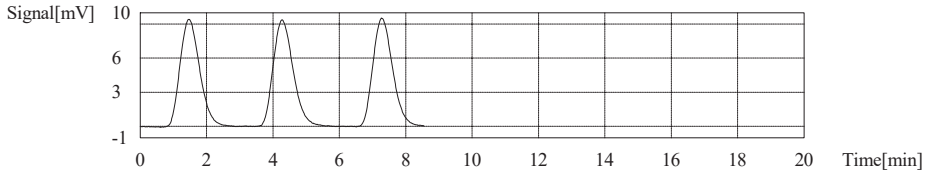
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.70	9.879mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 10:09:45 PM
2	38.97	9.948mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 10:13:19 PM
3	38.98	9.950mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 10:16:40 PM

TOC-Control L Report

Mean Area 38.88
Mean Conc. 9.926mg/L



Sample

Sample Name: LCSD-04272024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

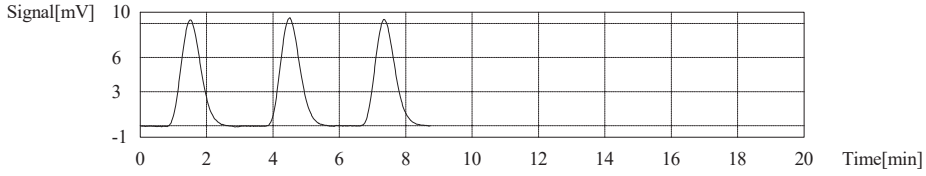
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.922mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	39.02	9.961mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 10:21:41 PM
2	38.80	9.904mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 10:25:07 PM
3	38.79	9.902mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 10:28:35 PM

Mean Area 38.87
Mean Conc. 9.922mg/L



Sample

Sample Name: HS24041715-01DF10
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.392mg/L

1. Det

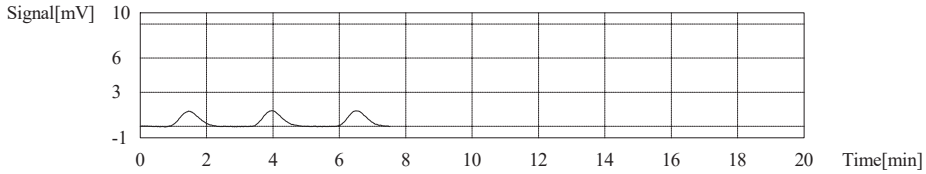
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.414	1.382mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 11:35:08 PM
2	5.514	1.408mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 11:38:16 PM
3	5.426	1.385mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/27/2024 11:41:19 PM

TOC-Control L Report

2024_04_27_001.tlx

Mean Area 5.451
Mean Conc. 1.392mg/L



Sample

Sample Name: CCV
Sample ID: 325102305
Origin: 04.25.2024.cal
Status Completed
Chk. Result

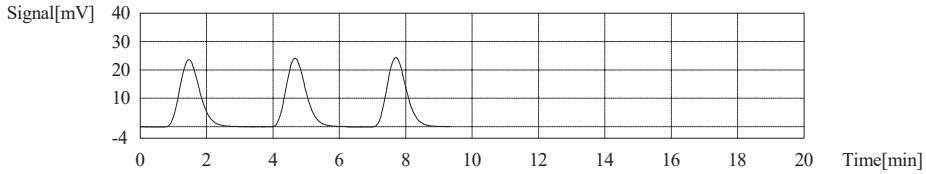
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.19mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.60	25.17mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 12:15:45 AM
2	98.63	25.18mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 12:19:23 AM
3	98.84	25.23mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 12:23:05 AM

Mean Area 98.69
Mean Conc. 25.19mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08120mg/L

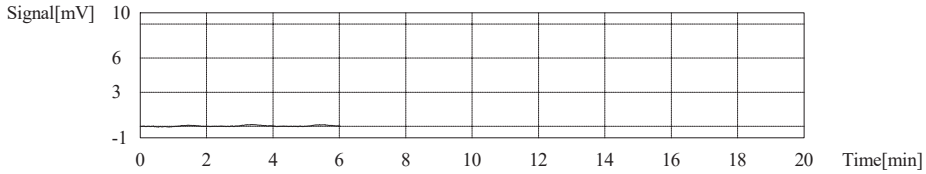
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.000	0.000mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 12:26:59 AM
2	0.4562	0.1165mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 12:29:42 AM
3	0.4981	0.1272mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 12:32:17 AM

TOC-Control L Report

Mean Area 0.3181
Mean Conc. 0.08120mg/L



Sample

Sample Name: HS24041820-01
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

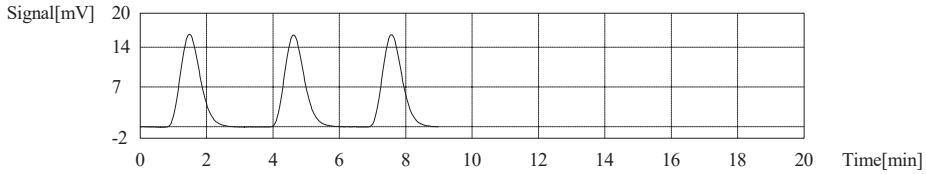
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:17.13mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	68.25	17.42mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 12:47:37 AM
2	66.39	16.95mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 12:51:09 AM
3	66.73	17.03mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 12:54:38 AM

Mean Area 67.12
Mean Conc. 17.13mg/L



Sample

Sample Name: HS24041820-01MS
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:26.34mg/L

1. Det

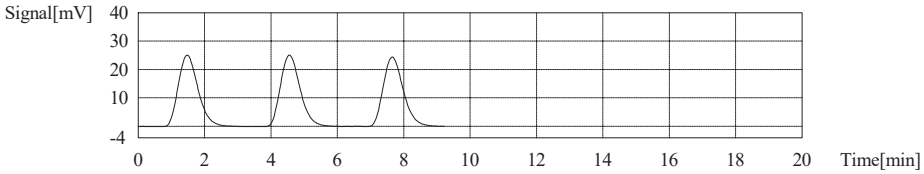
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	103.9	26.52mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 12:59:43 AM
2	103.4	26.39mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 1:03:25 AM
3	102.2	26.09mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 1:07:02 AM

TOC-Control L Report

2024_04_27_001.tlx

Mean Area 103.2
Mean Conc. 26.34mg/L



Sample

Sample Name: CCV
Sample ID: 325102305
Origin: 04.25.2024.cal
Status Completed
Chk. Result

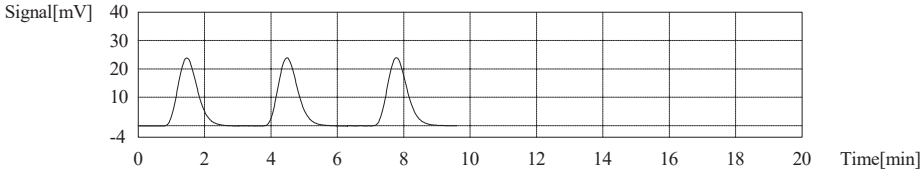
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.22mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	98.37	25.11mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 2:14:34 AM
2	98.86	25.24mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 2:18:26 AM
3	99.13	25.30mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 2:22:19 AM

Mean Area 98.79
Mean Conc. 25.22mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.09613mg/L

1. Det

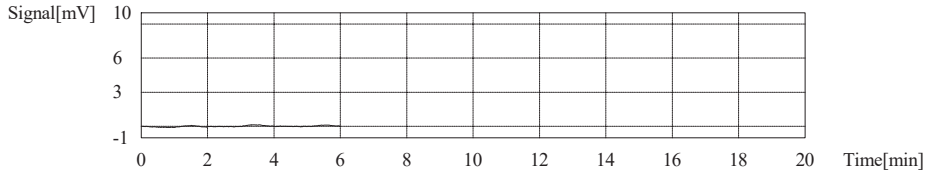
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4025	0.1027mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 2:26:19 AM
2	0.5174	0.1321mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 2:29:00 AM
3	0.2099	0.05358mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/28/2024 2:31:29 AM

TOC-Control L Report

2024_04_27_001.tlx

Mean Area	0.3766
Mean Conc.	0.09613mg/L



HS24041715 Wetchem TOC TABLE

ALS WO# HS24041715

C:\TOC-L\Data\2024_04_27_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Unknown	NPOC	CCV	325102305	04.25.2024.	1.000	NPOC:25.13mg/L	
2	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1637mg/L	
3	Unknown	NPOC	MBLK-04272024		04.25.2024.	1.000	NPOC:0.09858mg/	
4	Unknown	NPOC	LCS-04272024	3100607917	04.25.2024.	1.000	NPOC:9.879mg/L	
5	Unknown	NPOC	LCSD-04272024		04.25.2024.	1.000	NPOC:9.924mg/L	
6	Unknown	NPOC	HS24041701-01		04.25.2024.	1.000	NPOC:2.195mg/L	
7	Unknown	NPOC	HS24041701-01MS		04.25.2024.	1.000	NPOC:11.67mg/L	
8	Unknown	NPOC	HS24041701-02		04.25.2024.	1.000	NPOC:2.827mg/L	
9	Unknown	NPOC	HS24041701-03		04.25.2024.	1.000	NPOC:3.945mg/L	
10	Unknown	NPOC	HS24041701-04		04.25.2024.	1.000	NPOC:3.326mg/L	
11	Unknown	NPOC	HS24041701-05		04.25.2024.	1.000	NPOC:4.504mg/L	
12	Unknown	NPOC	HS24041701-06		04.25.2024.	1.000	NPOC:2.856mg/L	
13	Unknown	NPOC	CCV	325102305	04.25.2024.	1.000	NPOC:25.08mg/L	
14	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1544mg/L	
15	Unknown	NPOC	HS24041701-07		04.25.2024.	1.000	NPOC:2.805mg/L	
16	Unknown	NPOC	HS24041701-08		04.25.2024.	1.000	NPOC:2.058mg/L	
17	Unknown	NPOC	HS24041701-09		04.25.2024.	1.000	NPOC:2.172mg/L	
18	Unknown	NPOC	CCV	325102305	04.25.2024.	1.000	NPOC:25.16mg/L	
19	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1562mg/L	
20	Unknown	NPOC	MBLK-04272024		04.25.2024.	1.000	NPOC:0.06654mg/	
21	Unknown	NPOC	LCS-04272024	3100607917	04.25.2024.	1.000	NPOC:9.912mg/L	
22	Unknown	NPOC	LCSD-04272024		04.25.2024.	1.000	NPOC:9.902mg/L	
23	Unknown	NPOC	HS24041128-03DF10		04.25.2024.	1.000	NPOC:1.031mg/L	
24	Unknown	NPOC	HS24041128-04DF10		04.25.2024.	1.000	NPOC:2.639mg/L	
25	Unknown	NPOC	HS24041130-02DF10		04.25.2024.	1.000	NPOC:1.342mg/L	
26	Unknown	NPOC	HS24041261-06DF10		04.25.2024.	1.000	NPOC:0.4757mg/L	
27	Unknown	NPOC	HS24041279-01DF10		04.25.2024.	1.000	NPOC:0.5790mg/L	
28	Unknown	NPOC	HS24041279-02DF10		04.25.2024.	1.000	NPOC:0.5202mg/L	
29	Unknown	NPOC	HS24041279-02MSDF10		04.25.2024.	1.000	NPOC:10.06mg/L	
30	Unknown	NPOC	CCV	325102305	04.25.2024.	1.000	NPOC:24.93mg/L	
31	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.08396mg/	
32	Unknown	NPOC	HS24041279-03DF10		04.25.2024.	1.000	NPOC:0.3847mg/L	
33	Unknown	NPOC	HS24041279-04DF10		04.25.2024.	1.000	NPOC:4.390mg/L	
34	Unknown	NPOC	HS24041279-05DF10		04.25.2024.	1.000	NPOC:0.2760mg/L	
35	Unknown	NPOC	HS24041279-06DF10		04.25.2024.	1.000	NPOC:0.7599mg/L	
36	Unknown	NPOC	CCV	325102305	04.25.2024.	1.000	NPOC:25.19mg/L	
37	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1102mg/L	
38	Unknown	NPOC	MBLK-04272024		04.25.2024.	1.000	NPOC:0.07772mg/	
39	Unknown	NPOC	LCS-04272024	3100607917	04.25.2024.	1.000	NPOC:9.926mg/L	
40	Unknown	NPOC	LCSD-04272024		04.25.2024.	1.000	NPOC:9.922mg/L	
41	Unknown	NPOC	HS24041279-07DF10		04.25.2024.	1.000	NPOC:0.6448mg/L	
42	Unknown	NPOC	HS24041279-08DF10		04.25.2024.	1.000	NPOC:0.3524mg/L	
43	Unknown	NPOC	HS24041279-09DF10		04.25.2024.	1.000	NPOC:0.6216mg/L	
44	Unknown	NPOC	HS24041279-10DF10		04.25.2024.	1.000	NPOC:0.3139mg/L	
45	Unknown	NPOC	HS24041279-11DF10		04.25.2024.	1.000	NPOC:0.8685mg/L	
46	Unknown	NPOC	HS24041715-01DF10		04.25.2024.	1.000	NPOC:1.392mg/L	
47	Unknown	NPOC	CCV	325102305	04.25.2024.	1.000	NPOC:25.19mg/L	
48	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.08120mg/	
49	Unknown	NPOC	HS24041820-01		04.25.2024.	1.000	NPOC:17.13mg/L	
50	Unknown	NPOC	HS24041820-01MS		04.25.2024.	1.000	NPOC:26.34mg/L	
51	Unknown	NPOC	HS24041394-01DF10		04.25.2024.	1.000	NPOC:1.325mg/L	
52	Unknown	NPOC	HS24041394-02DF10		04.25.2024.	1.000	NPOC:1.643mg/L	
53	Unknown	NPOC	HS24041394-03DF10		04.25.2024.	1.000	NPOC:1.942mg/L	

	Status	Date / Time	Vial
1	Completed	4/27/2024 12:39:1	1
2	Completed	4/27/2024 12:48:4	2
3	Completed	4/27/2024 12:58:4	3
4	Completed	4/27/2024 1:11:15	4
5	Completed	4/27/2024 1:23:01	5
6	Completed	4/27/2024 1:33:53	6
7	Completed	4/27/2024 1:45:53	7
8	Completed	4/27/2024 1:56:55	8
9	Completed	4/27/2024 2:08:12	9
10	Completed	4/27/2024 2:19:28	10
11	Completed	4/27/2024 2:30:51	11
12	Completed	4/27/2024 2:41:50	12
13	Completed	4/27/2024 3:24:15	1
14	Completed	4/27/2024 3:33:35	2
15	Completed	4/27/2024 3:54:59	13
16	Completed	4/27/2024 4:05:50	14
17	Completed	4/27/2024 4:16:45	15
18	Completed	4/27/2024 4:58:35	1
19	Completed	4/27/2024 5:07:58	2
20	Completed	4/27/2024 5:17:44	3
21	Completed	4/27/2024 5:30:50	4
22	Completed	4/27/2024 5:42:46	5
23	Completed	4/27/2024 6:03:38	16
24	Completed	4/27/2024 6:14:42	17
25	Completed	4/27/2024 6:25:30	18
26	Completed	4/27/2024 6:35:57	19
27	Completed	4/27/2024 6:46:07	20
28	Completed	4/27/2024 6:56:28	21
29	Completed	4/27/2024 7:08:10	22
30	Completed	4/27/2024 7:50:18	23
31	Completed	4/27/2024 7:59:35	24
32	Completed	4/27/2024 8:10:34	25
33	Completed	4/27/2024 8:22:08	26
34	Completed	4/27/2024 8:42:19	27
35	Completed	4/27/2024 8:53:02	28
36	Completed	4/27/2024 9:35:20	23
37	Completed	4/27/2024 9:44:47	24
38	Completed	4/27/2024 10:03:5	3
39	Completed	4/27/2024 10:16:4	4
40	Completed	4/27/2024 10:28:3	5
41	Completed	4/27/2024 10:49:2	29
42	Completed	4/27/2024 10:59:3	30
43	Completed	4/27/2024 11:09:5	31
44	Completed	4/27/2024 11:19:4	32
45	Completed	4/27/2024 11:30:3	33
46	Completed	4/27/2024 11:41:1	34
47	Completed	4/28/2024 12:23:0	23
48	Completed	4/28/2024 12:32:1	24
49	Completed	4/28/2024 12:54:3	35
50	Completed	4/28/2024 1:07:02	36
51	Completed	4/28/2024 1:17:45	37
52	Completed	4/28/2024 1:28:41	38
53	Completed	4/28/2024 1:39:56	39

C:\TOC-L\Data\2024_04_27_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
54	Unknown	NPOC	CCV	325102305	04.25.2024.	1.000	NPOC:25.22mg/L	
55	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09613mg/	

	Status	Date / Time	Vial
54	Completed	4/28/2024 2:22:19	40
55	Completed	4/28/2024 2:31:29	41

HS24041715 E2400416 Perch Level IV Report

ALS WO# HS24041715

April 26, 2024 Service Request No:E2400416

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24041715

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory April 25, 2024
For your reference, these analyses have been assigned our service request number **E2400416.**

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 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

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

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	Service Request No.:	E2400416
Project:	HS24041715	Date Received:	04/25/24
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 04/25/24.

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:

EQ2400199: 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:**E2400416
Project: HS24041715

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400416-001	LH18/24-SP650_042424_BIX	4/24/2024	1300
E2400416-002	LH18/24-SP650_042424_AIX	4/24/2024	1300

Service Request Summary

Folder #: **E2400416**
Client Name: ALS Environmental - US
Project Name: HS24041715
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 04/25/24
Internal Due Date: 4/26/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4A
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400416-001	LH18/24-SP650_042424_BIX	Water	04/24/24 1300	**IV**
E2400416-002	LH18/24-SP650_042424_AIX	Water	04/24/24 1300	**IV**

Service Request Summary

Folder #: **E2400416**
Client Name: ALS Environmental - US
Project Name: HS24041715
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 04/25/24
Internal Due Date: 4/26/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4A
Pressure Gas:

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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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
California State Environmental Laboratory Accreditation Program	2919	4/30/2024
Department of Defense	L24-240	4/30/2026
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Michigan Depratment of Environmental Quality	9971-2023	4/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Tennessee Department of Environment and Concervation	TN04016-2023	4/30/2024
Texas Commision on Environmental Quality	TX-C24-00109	4/30/2024
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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E2400416
ALS Group USA, Corp.
HS24041715
5

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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:** **25453**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24041715
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24041715-02**	**LH18/24-SP650_042424_BIX**	**Water**	**24 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			26 Apr 2024
2.	**HS24041715-03**	**LH18/24-SP650_042424_AIX**	**Water**	**24 Apr 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			26 Apr 2024

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

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: 4/25/24 0920

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

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HS24041715

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Sample Receipt Checklist

Work Order ID: HS24041715 **Date/Time received:** 25 Apr 2024 09:20

Client name: Bhate Environmental Associates, Inc. **Received by:** Jacob Coronado

Completed/By: 25 Apr 2024 10:49 Jacob Coronado **Reviewed/By:** _____
Date/Time eSignature Date/Time eSignature

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	COC ID(s):
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): 3.2uc/3.3c ir31

Cooler Information: 1 Cooler(s), 50681

Date/Time sample(s) sent to storage: 04/25/2024 1049

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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SAMPLE ACCEPTANCE POLICY

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

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

- ✓ Intact on outside of cooler, signed and dated

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

The following is required on each COC:

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

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

Sample Integrity (mandatory):

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

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

Temperature Requirement (varies by sample matrix):

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

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

Preparation Information Benchsheets

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Preparation Information Benchsheet

Prep Run#: 437494 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/NVOSS **Prep Method:** Method **Prep Date/Time:** 4/25/24 12:30

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400416-001	LH18/24-SP650_042424_BIX	.01	6850/ClO4 DOD			Water	10mL	
2	E2400416-002	LH18/24-SP650_042424_AIX	.01	6850/ClO4 DOD			Water	10mL	
3	EQ2400199-01	MB		6850/ClO4 DOD			Liquid	10mL	
4	EQ2400199-03	LCS		6850/ClO4 DOD			Liquid	10mL	
5	EQ2400199-04	DLCS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

EQ2400199-03 10.00µL EQ2400199-04 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400416-001 100.00µL E2400416-002 100.00µL EQ2400199-01 100.00µL EQ2400199-03 100.00µL EQ2400199-04 100.00µL

Preparation Materials

Methanol HPLC MeOH Methanol HPLC cg3/24 (234252) WATER LCMS GRADE 4 LITER BOTTLE (234679)

Preparation Steps

Step: Preparation
Started: 4/25/24 12:30
Finished: 4/25/24 12:33
By: NVOSS
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400416
Project:	HS24041715	**Date Collected:**	4/24/24 1300
Sample Matrix:	Water	**Date Received:**	4/25/24
Sample Name:	LH18/24-SP650_042424_BIX	**Units:**	µg/L
Lab Code:	E2400416-001	**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	**3.03**		0.100	0.0500	0.0250	1	4/25/24	4/25/24 14:02	437494	839045	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400416
Project:	HS24041715	**Date Collected:**	4/24/24 1300
Sample Matrix:	Water	**Date Received:**	4/25/24
Sample Name:	LH18/24-SP650_042424_AIX	**Units:**	µg/L
Lab Code:	E2400416-002	**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	ND	U	0.100	0.0500	0.0250	1	4/25/24	4/25/24 14:07	437494	839045	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400416
Project:	HS24041715	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400199-01	**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	4/25/24	4/25/24 15:26	437494	839045	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24041715
Sample Matrix: Water

Service Request: E2400416
Date Analyzed: 4/25/24

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: 437494

	Lab Control Sample EQ2400199-03			Duplicate Lab Control Sample EQ2400199-04					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.107	0.100	107	0.0933	0.100	93	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:**	E2400416
Project:	HS24041715	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400199-03	**Basis:**	NA

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

Analytical Method: 6850
Prep Method: Method

Analyte Name	Result	Q	LOQ	LOD	MDL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Perchlorate	**0.107**		0.100	0.0500	0.0250	1	4/25/24	4/25/24 15:31	437494	839045	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400416
Project:	HS24041715	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400199-04	**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	**0.0933**	J	0.100	0.0500	0.0250	1	4/25/24	4/25/24 15:37	437494	839045	

ICAL

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 4/24/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240424-001	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:30
2	20240424-002	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:35
3	20240424-003	LODV	Perchlorate6850c.lcm	1x		4/19/2024 10:41
4	20240424-004	ICS	Perchlorate6850c.lcm	1x		4/19/2024 10:46
5	20240424-005	CCV	Perchlorate6850c.lcm	1x	CCV OUT OF CONTROL NEED ICAL	4/19/2024 10:52
6	20240424-006	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:57
7	20240424-007	IB	Perchlorate6850c.lcm	1x		4/19/2024 11:18
8	20240424-008	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x	233572	4/19/2024 11:24
9	20240424-009	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x	233571	4/19/2024 11:44
10	20240424-010	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x	233570	4/19/2024 11:50
11	20240424-011	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x	233569	4/19/2024 11:56
12	20240424-012	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x	233568	4/19/2024 12:01
13	20240424-013	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x	233567	4/19/2024 12:07
14	20240424-014	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x	233566	4/19/2024 12:12
15	20240424-015	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x	233564	4/19/2024 12:37
16	20240424-016	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x	233563	4/19/2024 12:42
17	20240424-017	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x	233562	4/19/2024 12:48
18	20240424-018	PerchlorateICV	Perchlorate6850c.lcm	1x	230380	4/19/2024 12:53
19	20240424-019	IB	Perchlorate6850c.lcm	1x		4/19/2024 12:59
20	20240424-020	SPK STD TESt	Perchlorate6850c.lcm	1x		4/19/2024 13:04

Initial Calibration - Detailed Report

Calibration ID: EC2400006 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400006-01	Perchlorate ICAL 1	20240424-008	04/24/2024 10:31
02	EC2400006-02	Perchlorate ICAL 2	20240424-009	04/24/2024 10:37
03	EC2400006-03	Perchlorate ICAL 3	20240424-010	04/24/2024 10:42
04	EC2400006-04	Perchlorate ICAL 4	20240424-011	04/24/2024 10:48
05	EC2400006-05	Perchlorate ICAL 5	20240424-012	04/24/2024 10:53
06	EC2400006-06	Perchlorate ICAL 6	20240424-013	04/24/2024 10:59
07	EC2400006-07	Perchlorate ICAL 7	20240424-014	04/24/2024 11:04
08	EC2400006-08	Perchlorate ICAL 8	20240424-015	04/24/2024 11:10
09	EC2400006-09	Perchlorate ICAL 9	20240424-016	04/24/2024 11:15
10	EC2400006-10	Perchlorate ICAL 10	20240424-017	04/24/2024 11:21
11	EC2400006-11	PerchlorateICV	20240424-018	04/24/2024 11:26

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

Perchlorate **Average RF** **RSD =**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000		02	0.5000		03	0.7000		04	1.0000	
05	2.0000		06	5.0000		07	10.0000		08	20.0000	
09	30.0000		10	50.0000		11	10.0000				

Analyte

Perchlorate RSE =

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000			02	0.5000			03	0.7000		
04	1.0000			05	2.0000			06	5.0000		
07	10.0000			08	20.0000			09	30.0000		
10	50.0000			11	10.0000						

Initial Calibration Verification Summary Report

Calibration ID:	EC2400006	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240424-018	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400006-11	T	Average RF	10	10.086	ng/mL	0.9	<= 15

Initial Calibration

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Phone (713)266-1599 Fax (713)266-0130
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Project Name |
Version 3.6.65.0
Date 4/26/2024
Time 09:32:19

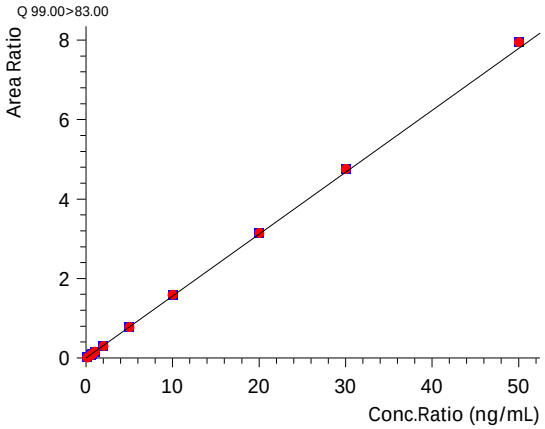
Insight Calibration Report

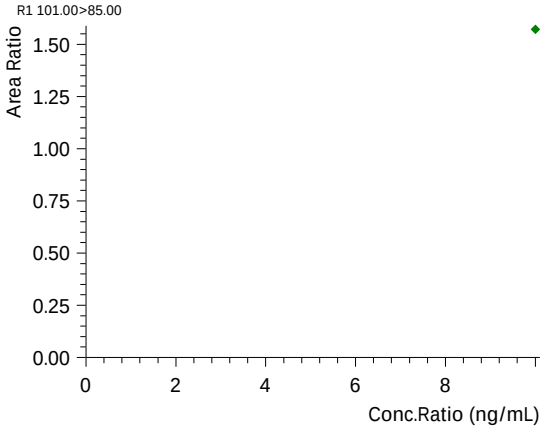
User Admin

ID1: Perchlorate

Curve Fit: Mean RF | Weighting: None | Zero: Not Forced
Quantitative Method: Internal Standard

	R^2	R	Equation
Q 99.00>83.00	----	----	
R1 101.00>85.00	----	----	----





Data Filename	Sample Name	Cal Point	Area	Area Ratio	Conc.	Accuracy(%)
20240424-008	Perchlorate ICAL 1	☑	6689	0.015	0.0989	98.91
20240424-009	Perchlorate ICAL 2	☑	32102	0.074	0.4742	94.83
20240424-010	Perchlorate ICAL 3	☑	50828	0.109	0.6975	99.65
20240424-011	Perchlorate ICAL 4	☑	74897	0.158	1.0138	101.38
20240424-012	Perchlorate ICAL 5	☑	152934	0.303	1.9458	97.29
20240424-013	Perchlorate ICAL 6	☑	381742	0.783	5.0244	100.49
20240424-014	Perchlorate ICAL 7	☑	773249	1.593	10.2250	102.25
20240424-015	Perchlorate ICAL 8	☑	1525784	3.154	20.2437	101.22
20240424-016	Perchlorate ICAL 9	☑	2236081	4.763	30.5732	101.91
20240424-017	Perchlorate ICAL 10	☑	3696255	7.951	51.0354	102.07
20240424-018	PerchlorateICV		770359	1.571	10.0860	100.86

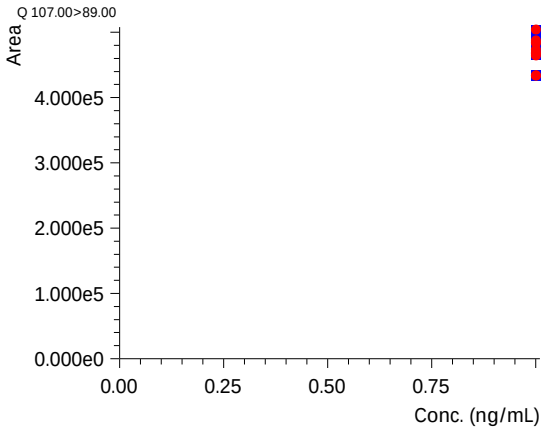
ID2: Sodium Perchlorate-18O4_IS

Curve Fit: Mean RF | Weighting: None | Zero: Not Forced
Quantitative Method: Internal Standard

	R^2	R	Equation
Q 107.00>89.00	----	----	----

Data Filename	Sample Name	Cal Point	Area	Area Ratio	Conc.	Accuracy(%)
20240424-008	Perchlorate ICAL 1	☐	434047	----	1.0000	100.00
20240424-009	Perchlorate ICAL 2	☐	434540	----	1.0000	100.00
20240424-010	Perchlorate ICAL 3	☐	467697	----	1.0000	100.00
20240424-011	Perchlorate ICAL 4	☐	474164	----	1.0000	100.00
20240424-012	Perchlorate ICAL 5	☐	504464	----	1.0000	100.00
20240424-013	Perchlorate ICAL 6	☐	487649	----	1.0000	100.00
20240424-014	Perchlorate ICAL 7	☐	485377	----	1.0000	100.00
20240424-015	Perchlorate ICAL 8	☐	483757	----	1.0000	100.00
20240424-016	Perchlorate ICAL 9	☐	469429	----	1.0000	100.00
20240424-017	Perchlorate ICAL 10	☐	464851	----	1.0000	100.00
20240424-018	PerchlorateICV		490226	----	1.0000	100.00

ID2: Sodium Perchlorate-18O4_IS (continued)



Insight Report

Printed at 4/26/2024 10:07:32 AM

PerchlorateICV

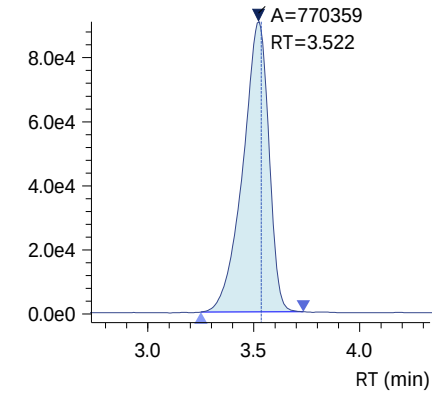
Sample ID: PerchlorateICV
Date Acquired: 4/24/2024 11:26:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-018.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	770359	490226	10.0860	ng/mL	101.00 >85.00	32.67	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.520	490226	490226	1.0000	ng/mL	----	----	

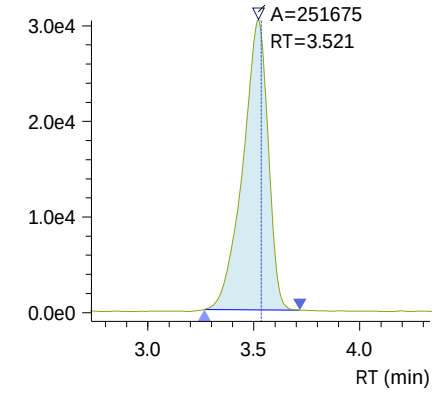
Perchlorate

Conc 10.0860
R#1 32.67 (34.10)

Q 99.00>83.00 (-) 9.12e4



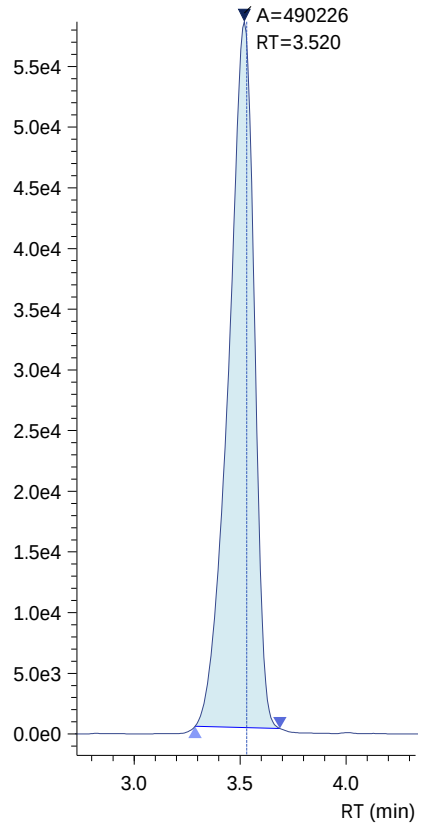
R1 101.00>85.00 (-) 3.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.87e4



Insight Report

Printed at 4/26/2024 10:05:16 AM

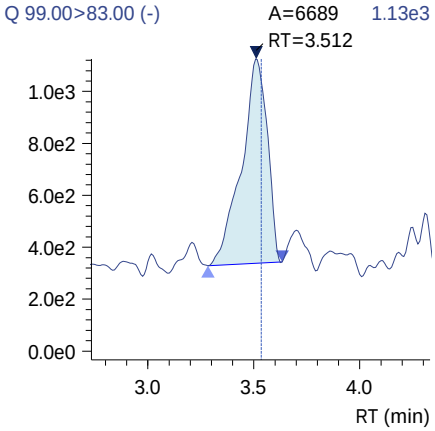
Method File: I:\LCMS01\DATA\20240424\20240424-ICAL.lcm
Project File: I:\LCMS01\DATA\20240424\20240424-ICAL.damlp

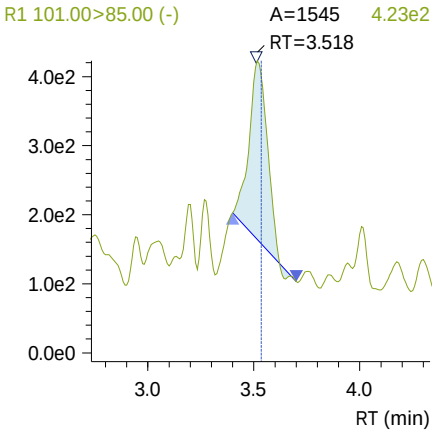
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 4/24/2024 10:31:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

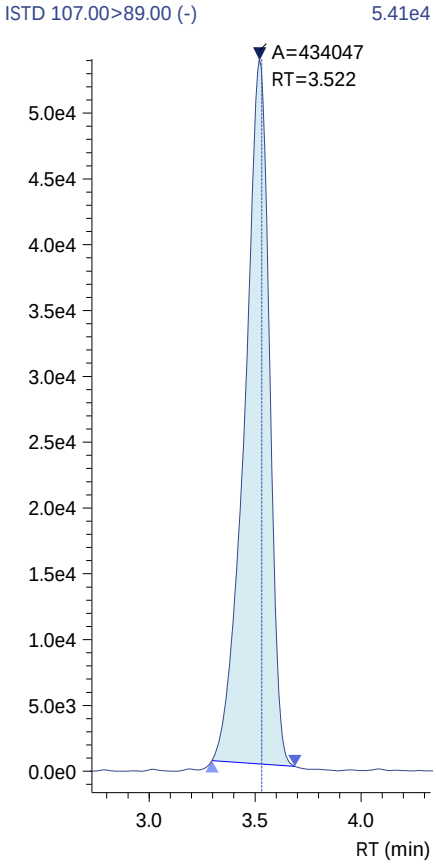
Conc 0.0989
R#1 23.10 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Method File: I:\LCMS01\DATA\20240424\20240424-ICAL.lcm
Project File: I:\LCMS01\DATA\20240424\20240424-ICAL.damlp

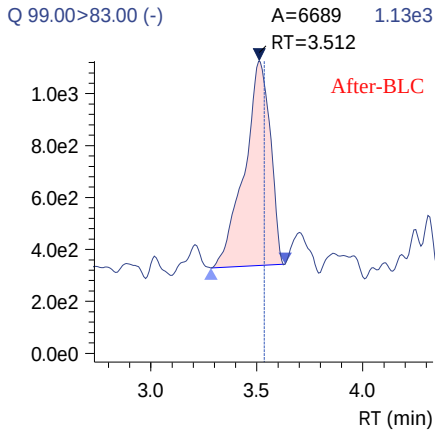
Perchlorate ICAL 1

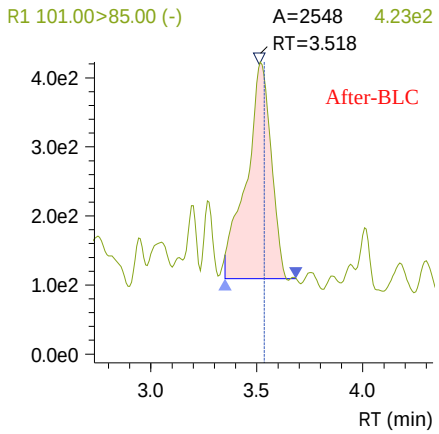
Sample ID: Perchlorate ICAL 1
Date Acquired: 4/24/2024 10:31:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.512	6689	434047	0.0989	ng/mL	101.00 >85.00	38.09	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.522	434047	434047	1.0000	ng/mL	----	----	

Perchlorate

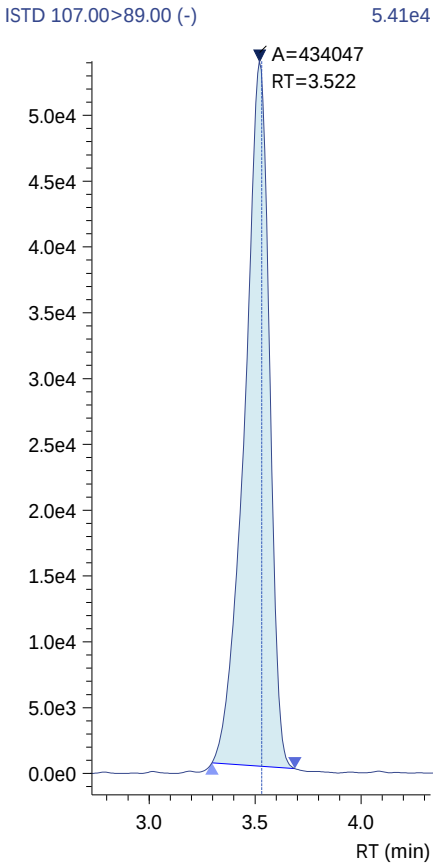
Conc 0.0989
R#1 38.09 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 2

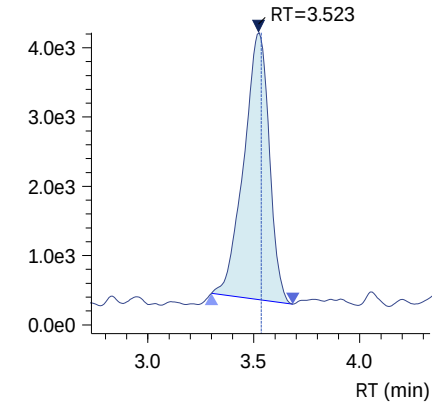
Sample ID: Perchlorate ICAL 2
Date Acquired: 4/24/2024 10:37:04 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.523	32102	434540	0.4742	ng/mL	101.00 >85.00	33.95	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.523	434540	434540	1.0000	ng/mL	----	----	

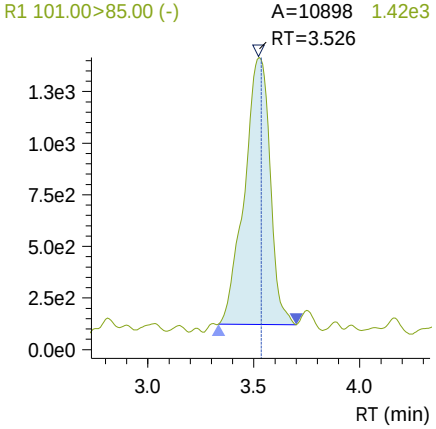
Perchlorate

Conc 0.4742
R#1 33.95 (34.10)

Q 99.00>83.00 (-) A=32102 4.22e3



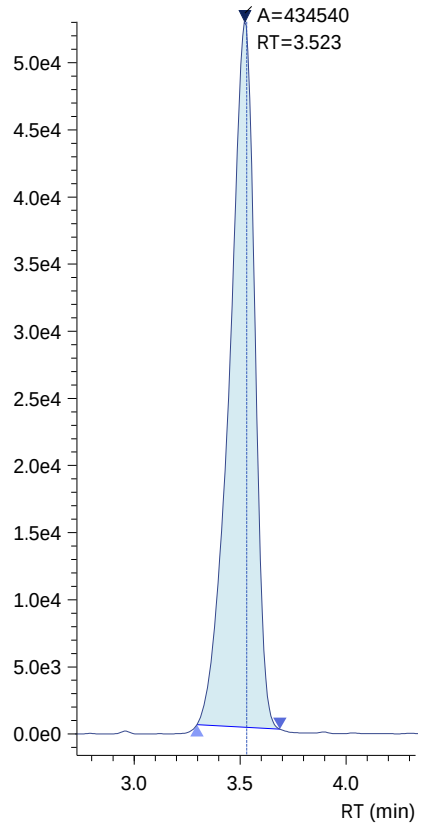
R1 101.00>85.00 (-) A=10898 1.42e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.31e4



Insight Report

Printed at 4/26/2024 10:05:16 AM

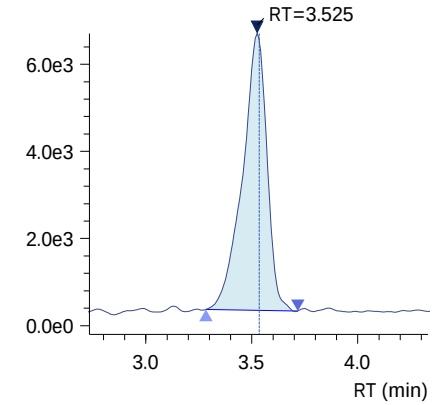
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 4/24/2024 10:42:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

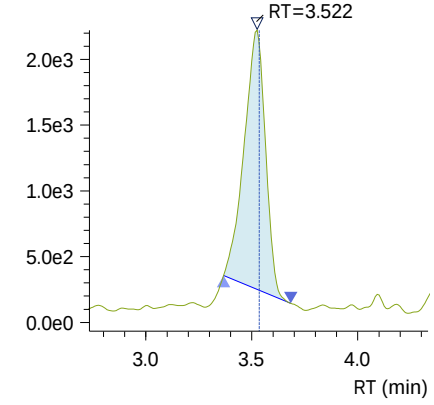
Perchlorate

Conc 0.6975
R#1 27.11 (34.10)

Q 99.00>83.00 (-) A=50828 6.71e3



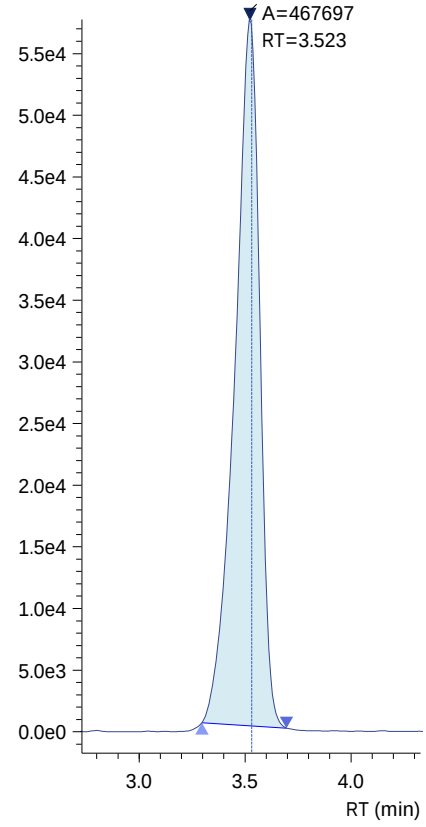
R1 101.00>85.00 (-) A=13778 2.22e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.78e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

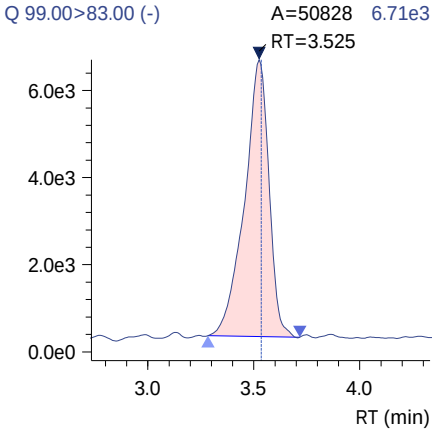
Perchlorate ICAL 3

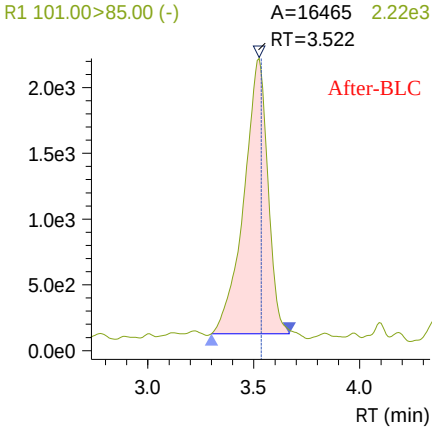
Sample ID: Perchlorate ICAL 3
Date Acquired: 4/24/2024 10:42:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.525	50828	467697	0.6975	ng/mL	101.00 >85.00	32.39	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.523	467697	467697	1.0000	ng/mL	----	----	

Perchlorate

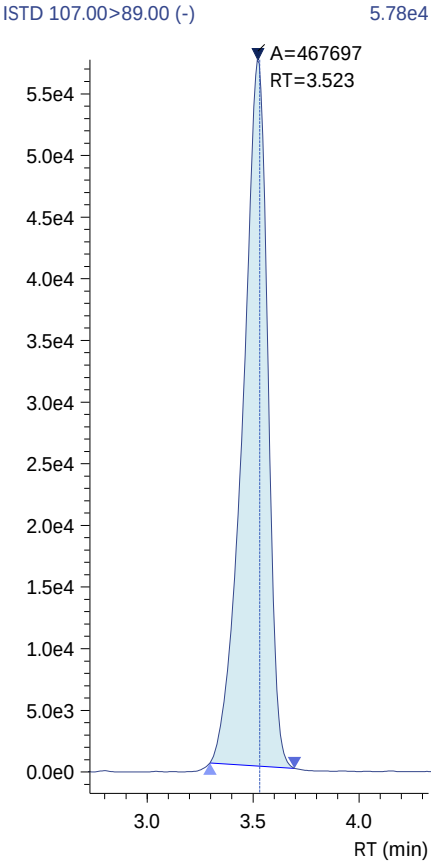
Conc 0.6975
R#1 32.39 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

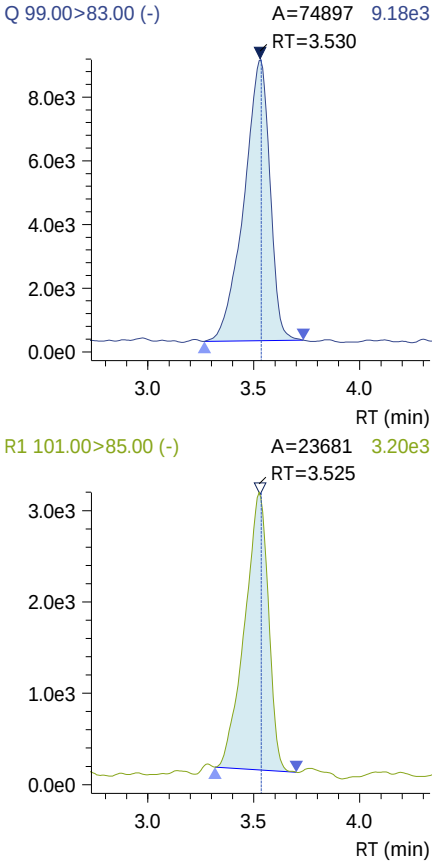
Perchlorate ICAL 4

Sample ID: Perchlorate ICAL 4
Date Acquired: 4/24/2024 10:48:09 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-011.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.530	74897	474164	1.0138	ng/mL	101.00 >85.00	31.62	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.524	474164	474164	1.0000	ng/mL	----	----	

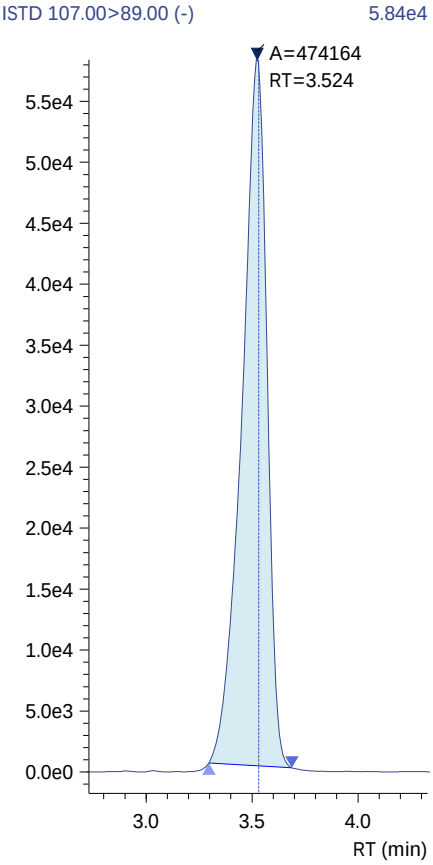
Perchlorate

Conc 1.0138
R#1 31.62 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

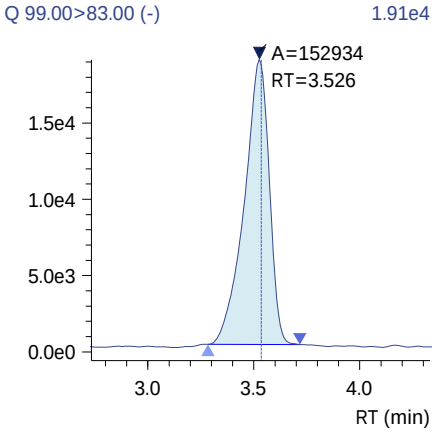
Perchlorate ICAL 5

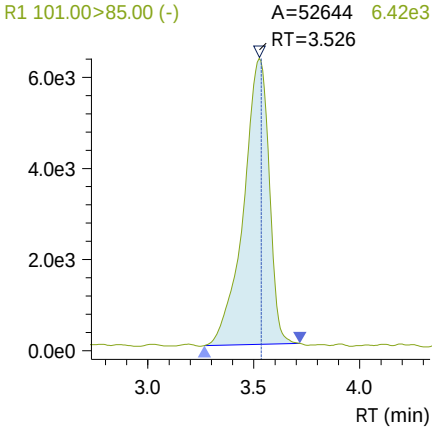
Sample ID: Perchlorate ICAL 5
Date Acquired: 4/24/2024 10:53:40 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-012.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.526	152934	504464	1.9458	ng/mL	101.00 >85.00	34.42	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.525	504464	504464	1.0000	ng/mL	----	----	

Perchlorate

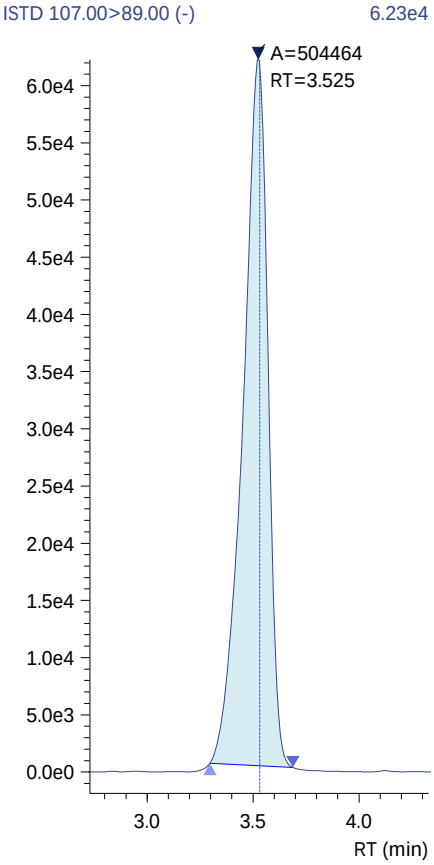
Conc 1.9458
R#1 34.42 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 6

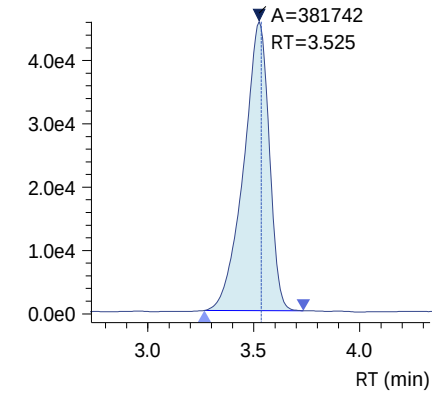
Sample ID: Perchlorate ICAL 6
Date Acquired: 4/24/2024 10:59:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-013.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	381742	487649	5.0244	ng/mL	101.00 >85.00	33.17	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.522	487649	487649	1.0000	ng/mL	----	----	

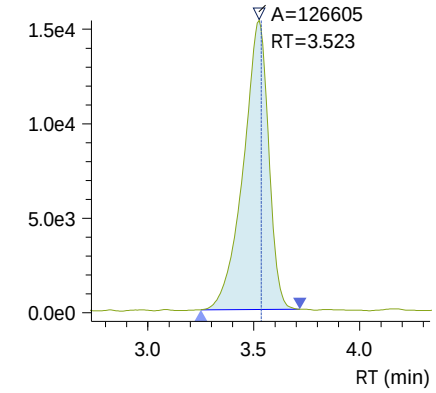
Perchlorate

Conc 5.0244
R#1 33.17 (34.10)

Q 99.00>83.00 (-) 4.61e4



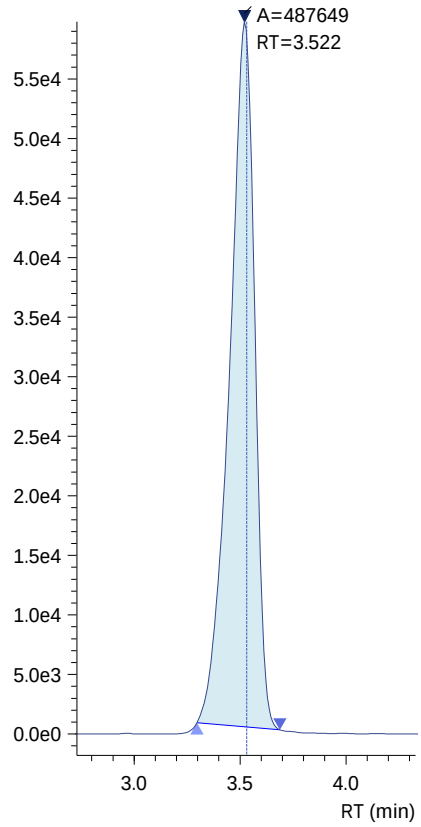
R1 101.00>85.00 (-) 1.55e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.98e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 7

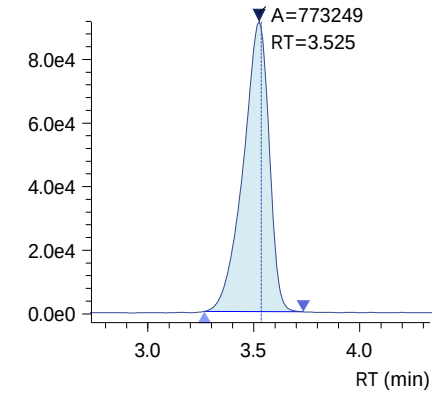
Sample ID: Perchlorate ICAL 7
Date Acquired: 4/24/2024 11:04:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-014.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	773249	485377	10.2 250	ng/mL	101.00 >85.00	33.37	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.521	485377	485377	1.0000	ng/mL	----	----	

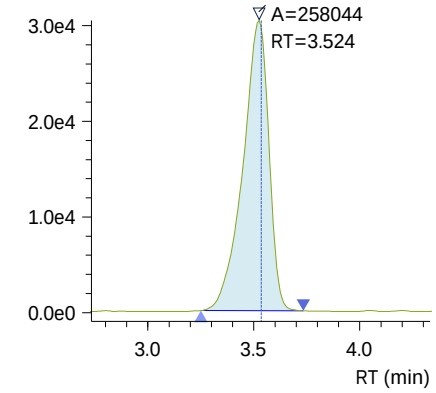
Perchlorate

Conc 10.2250
R#1 33.37 (34.10)

Q 99.00>83.00 (-) 9.19e4



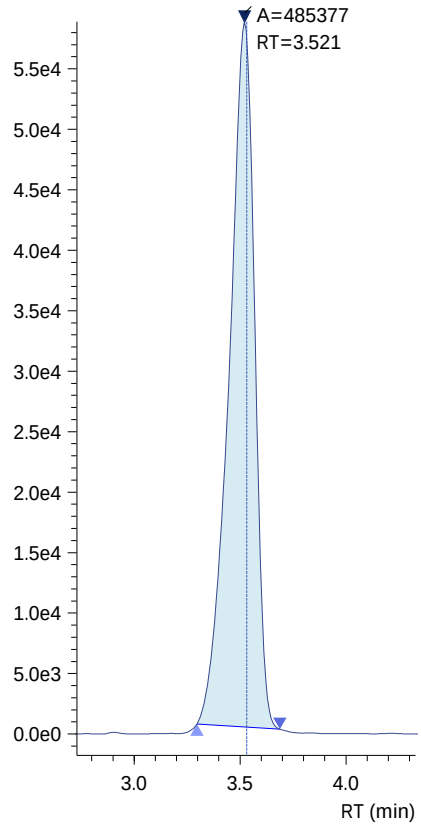
R1 101.00>85.00 (-) 3.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.89e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 8

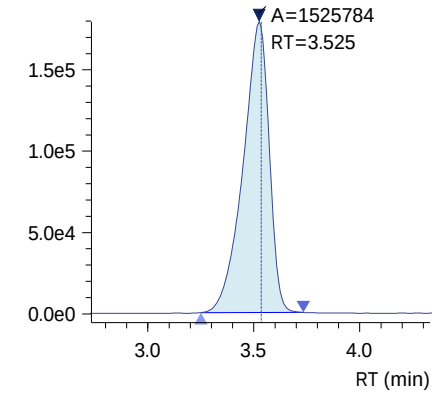
Sample ID: Perchlorate ICAL 8
Date Acquired: 4/24/2024 11:10:18 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-015.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	15257 84	483757	20.2 437	ng/mL	101.00 >85.00	32.96	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.520	483757	483757	1.0000	ng/mL	----	----	

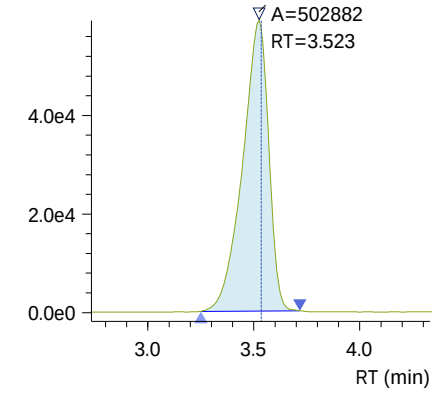
Perchlorate

Conc 20.2437
R#1 32.96 (34.10)

Q 99.00>83.00 (-) 1.80e5



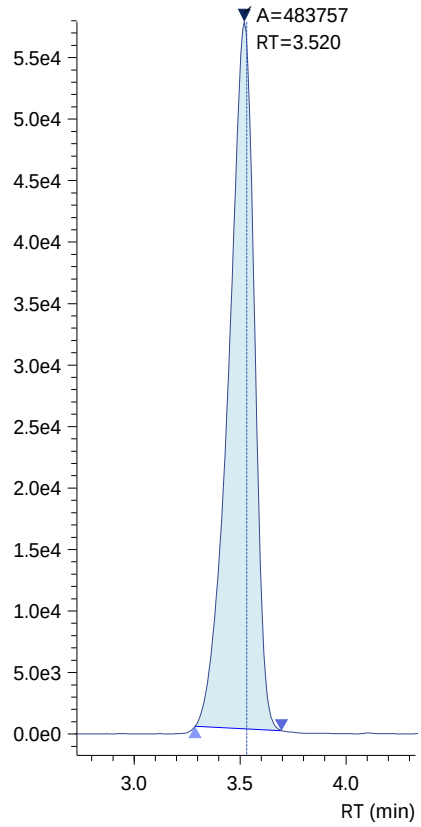
R1 101.00>85.00 (-) 5.93e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.79e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 9

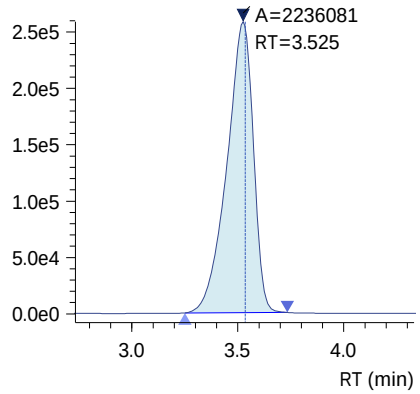
Sample ID: Perchlorate ICAL 9
Date Acquired: 4/24/2024 11:15:53 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-016.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	22360 81	469429	30.5 732	ng/mL	101.00 >85.00	32.91	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.521	469429	469429	1.0000	ng/mL	----	----	

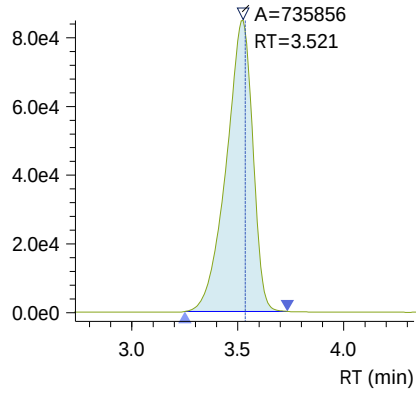
Perchlorate

Conc 30.5732
R#1 32.91 (34.10)

Q 99.00>83.00 (-) 2.59e5



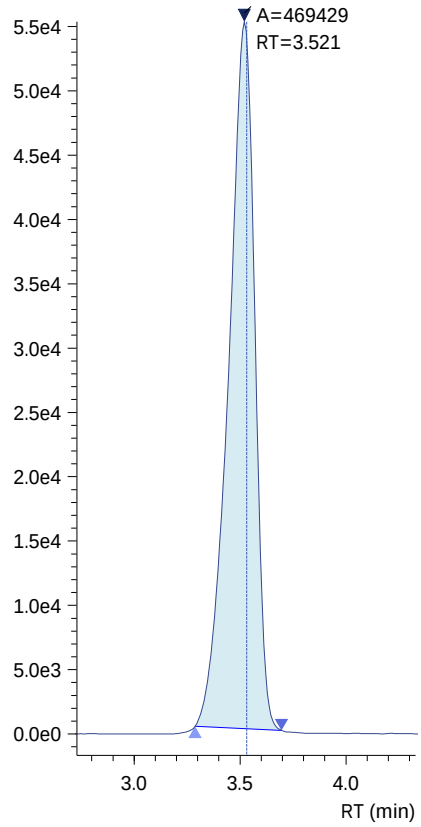
R1 101.00>85.00 (-) 8.50e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.54e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 10

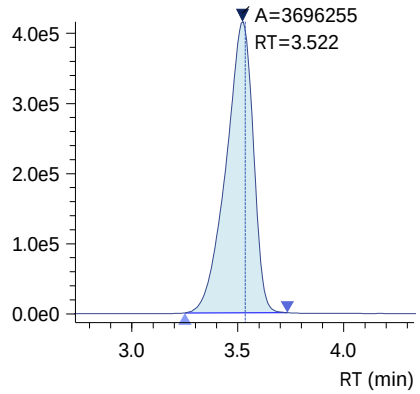
Sample ID: Perchlorate ICAL 10
Date Acquired: 4/24/2024 11:21:25 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-017.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	36962	464851	51.0	ng/mL	101.00	32.99	26.31
			55		354		>85.00		-43.47
Sodium Perchlorate -18O4_IS	Auto	3.518	464851	464851	1.0000	ng/mL	----	----	

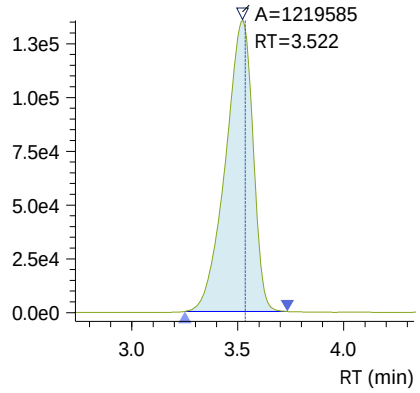
Perchlorate

Conc 51.0354
R#1 32.99 (34.10)

Q 99.00>83.00 (-) 4.17e5



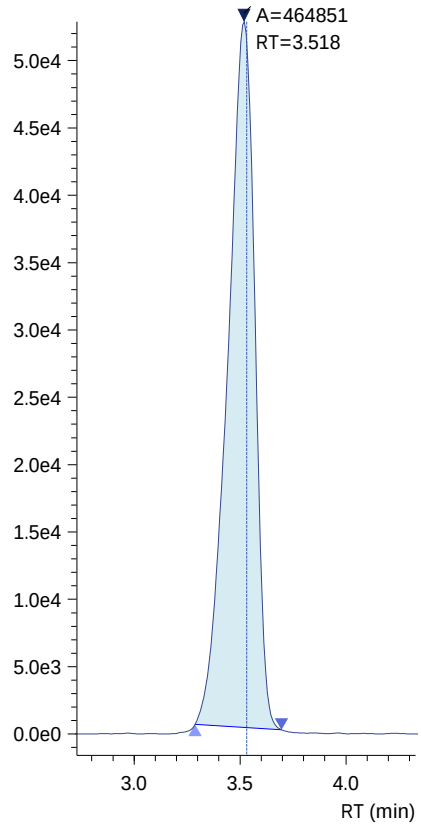
R1 101.00>85.00 (-) 1.36e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.29e4



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

839045

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 4/24/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240425-001	IB	Perchlorate6850c.lcm	1x		4/25/2024 10:49
2	20240425-002	IB	Perchlorate6850c.lcm	1x		4/25/2024 10:55
3	20240425-003	LODV	Perchlorate6850c.lcm	1x		4/25/2024 11:00
4	20240425-004	EQ2400193-04ICS	Perchlorate6850c.lcm	1x		4/25/2024 11:06
5	20240425-005	CCV	Perchlorate6850c.lcm	1x		4/25/2024 11:11
6	20240425-006	IB	Perchlorate6850c.lcm	1x		4/25/2024 11:17
7	20240425-007	LCS TEST	Perchlorate6850c.lcm	1x		4/25/2024 11:34
8	20240425-008	EQ2400193-01MB	Perchlorate6850c.lcm	1x		4/25/2024 12:41
9	20240425-009	EQ2400193-02LCS	Perchlorate6850c.lcm	1x		4/25/2024 12:46
10	20240425-010	EQ2400193-03DLCS	Perchlorate6850c.lcm	1x		4/25/2024 12:52
11	20240425-011	EQ2400193-04ICS	Perchlorate6850c.lcm	1x	DNU Bad Inj	4/25/2024 12:57
12	20240425-012	E2400416-001	Perchlorate6850c.lcm	100x	DNU Screen Data	4/25/2024 13:03
13	20240425-013	E2400416-002	Perchlorate6850c.lcm	100x	DNU Screen Data	4/25/2024 13:08
14	20240425-014	E2400416-001	Perchlorate6850c.lcm	1x		4/25/2024 14:02
15	20240425-015	E2400416-002	Perchlorate6850c.lcm	1x		4/25/2024 14:07
16	20240425-016	CCV	Perchlorate6850c.lcm	1x		4/25/2024 14:13
17	20240425-017	IB	Perchlorate6850c.lcm	1x		4/25/2024 14:18
18	20240425-018	E2400392-001	Perchlorate6850c.lcm	1x		4/25/2024 14:24
19	20240425-019	E2400392-002	Perchlorate6850c.lcm	1x		4/25/2024 14:29
20	20240425-020	E2400392-003	Perchlorate6850c.lcm	1x	DNU ISs	4/25/2024 14:35
21	20240425-021	E2400393-001	Perchlorate6850c.lcm	1x		4/25/2024 14:40
22	20240425-022	E2400393-002	Perchlorate6850c.lcm	1x		4/25/2024 14:46
23	20240425-023	E2400393-003	Perchlorate6850c.lcm	1x		4/25/2024 14:51
24	20240425-024	E2400393-004	Perchlorate6850c.lcm	1x		4/25/2024 14:57
25	20240425-025	E2400393-005	Perchlorate6850c.lcm	1x		4/25/2024 15:04
26	20240425-026	E2400393-006	Perchlorate6850c.lcm	1x		4/25/2024 15:09
27	20240425-027	CCV	Perchlorate6850c.lcm	1x		4/25/2024 15:15
28	20240425-028	IB	Perchlorate6850c.lcm	1x		4/25/2024 15:20
29	20240425-029	EQ2400199-01MB	Perchlorate6850c.lcm	1x		4/25/2024 15:26
30	20240425-030	EQ2400199-02LCS	Perchlorate6850c.lcm	1x		4/25/2024 15:31
31	20240425-031	EQ2400199-03DLCS	Perchlorate6850c.lcm	1x		4/25/2024 15:37
32	20240425-032	E2400392-003	Perchlorate6850c.lcm	1x		4/25/2024 15:42
33	20240425-033	E2400392-003X10	Perchlorate6850c.lcm	1x		4/25/2024 15:48
34	20240425-034	CCV	Perchlorate6850c.lcm	1x		4/25/2024 15:53
35	20240425-035	IB	Perchlorate6850c.lcm	1x		4/25/2024 15:59

839045

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 4/24/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400416
Project:	HS24041715	**Date Analyzed:**	4/25/24 11:11

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

File ID:	I:\LCMS01\DATA\20240425\20240425-005	**Lab Code:**	EQ2400200-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	839045
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	472,382	3.52
	Upper Limit ==>	708,573	5.52
	Lower Limit ==>	236,191	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400200-01	508,067	3.53
LH18/24-SP650_042424_BIX	E2400416-001	466,539	3.53
LH18/24-SP650_042424_AIX	E2400416-002	480,107	3.53

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:**	E2400416
Project:	HS24041715	**Date Analyzed:**	4/25/24 14:13

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

File ID:	I:\LCMS01\DATA\20240425\20240425-016	**Lab Code:**	EQ2400200-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	839045
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	472,382	3.52
	Upper Limit ==>	708,573	5.52
	Lower Limit ==>	236,191	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400200-02	483,490	3.52

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:**	E2400416
Project:	HS24041715	**Date Analyzed:**	4/25/24 15:15

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

File ID:	I:\LCMS01\DATA\20240425\20240425-027	**Lab Code:**	EQ2400200-03
Instrument ID:	E-LCMS-01	**Analysis Lot:**	839045
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	472,382	3.52
	Upper Limit ==>	708,573	5.52
	Lower Limit ==>	236,191	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400200-03	493,245	3.52
Method Blank	EQ2400199-01	521,876	3.52
Lab Control Sample	EQ2400199-03	512,040	3.52
Duplicate Lab Control Sample	EQ2400199-04	548,806	3.52

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:**	E2400416
Project:	HS24041715	**Date Analyzed:**	4/25/24 15:53

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

File ID:	I:\LCMS01\DATA\20240425\20240425-034	**Lab Code:**	EQ2400200-04
Instrument ID:	E-LCMS-01	**Analysis Lot:**	839045
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	472,382	3.52
	Upper Limit ==>	708,573	5.52
	Lower Limit ==>	236,191	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400200-04	491,496	3.52

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: HS24041715

Service Request: E2400416
Date Analyzed: 4/25/24

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\20240425\20240425-005

Calibration Date: 4/24/24
Calibration ID: EC2400006
Analysis Lot: 839045
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.0	0.1559	0.1565	0.4	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24041715

Service Request: E2400416
Date Analyzed: 4/25/24

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\20240425\20240425-016

Calibration Date: 4/24/24
Calibration ID: EC2400006
Analysis Lot: 839045
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.3	0.1559	0.1599	2.6	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24041715

Service Request: E2400416
Date Analyzed: 4/25/24

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\20240425\20240425-027

Calibration Date: 4/24/24
Calibration ID: EC2400006
Analysis Lot: 839045
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1559	0.1643	5.3	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24041715

Service Request: E2400416
Date Analyzed: 4/25/24

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\20240425\20240425-034

Calibration Date: 4/24/24
Calibration ID: EC2400006
Analysis Lot: 839045
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1559	0.1635	4.9	NA	± 15 %	Average RF

Insight Report

Printed at 4/26/2024 11:23:09 AM

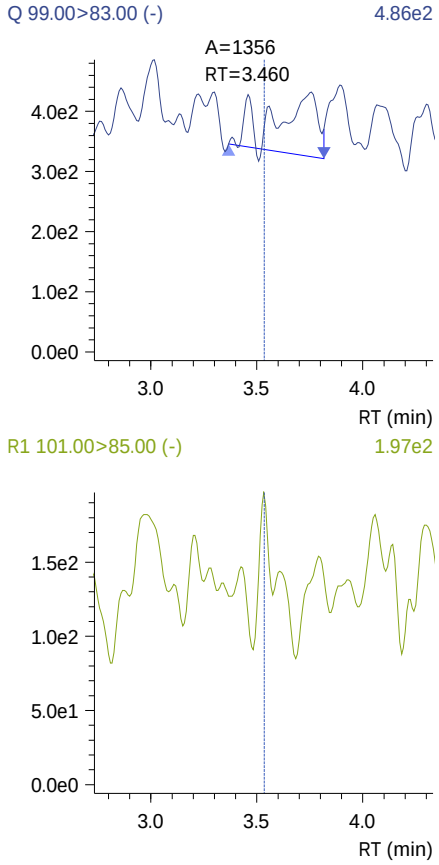
IB

Sample ID: IB
Date Acquired: 4/25/2024 3:59:18 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-035.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	493929	----	ng/mL	101.00 >85.00	0.00	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.517	493929	493929	1.0000	ng/mL	----	----	

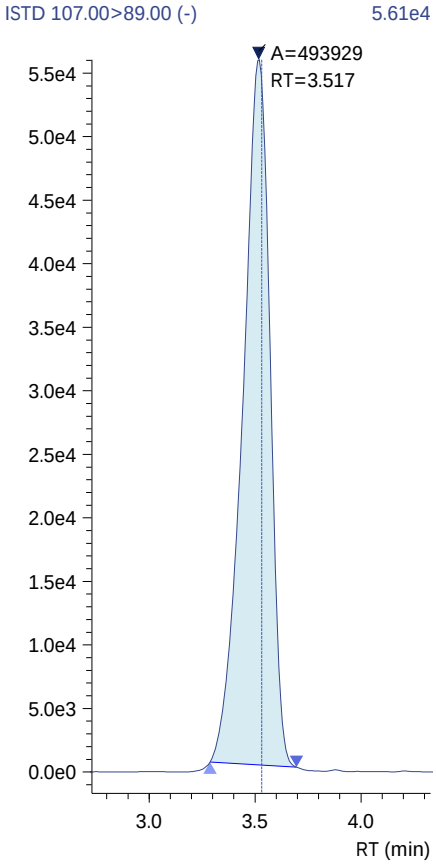
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 11:23:09 AM

Method File: I:\LCMS01\DATA\20240425\20240425.lcm
Project File: I:\LCMS01\DATA\20240425\20240425.damlp

IB

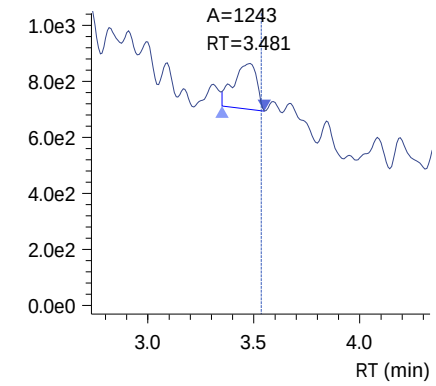
Sample ID: IB
Date Acquired: 4/25/2024 10:55:02 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-002.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	486376	----	ng/mL	101.00 >85.00	0.00	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.536	486376	486376	1.0000	ng/mL	----	----	

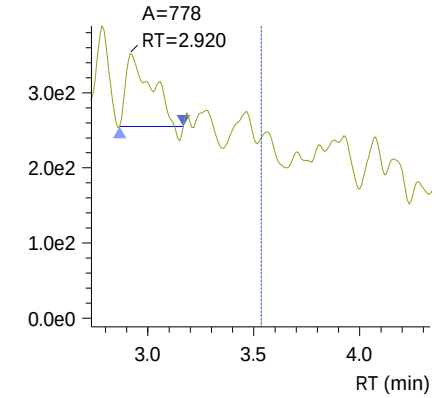
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 1.04e3



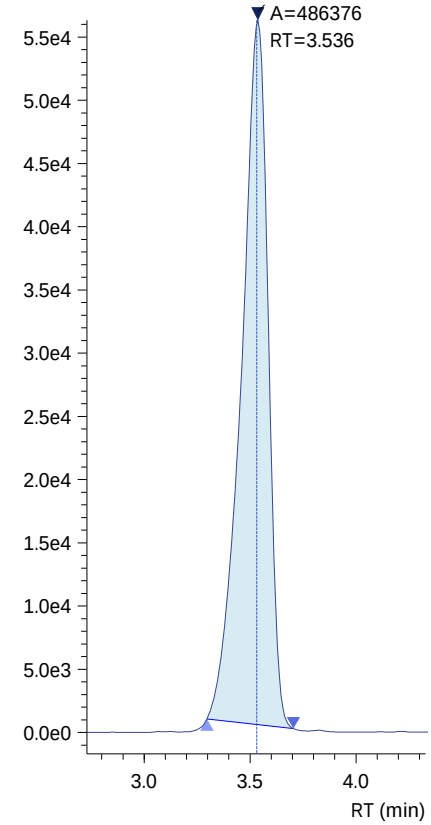
R1 101.00>85.00 (-) 3.89e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.63e4



Insight Report

Printed at 4/26/2024 11:23:09 AM

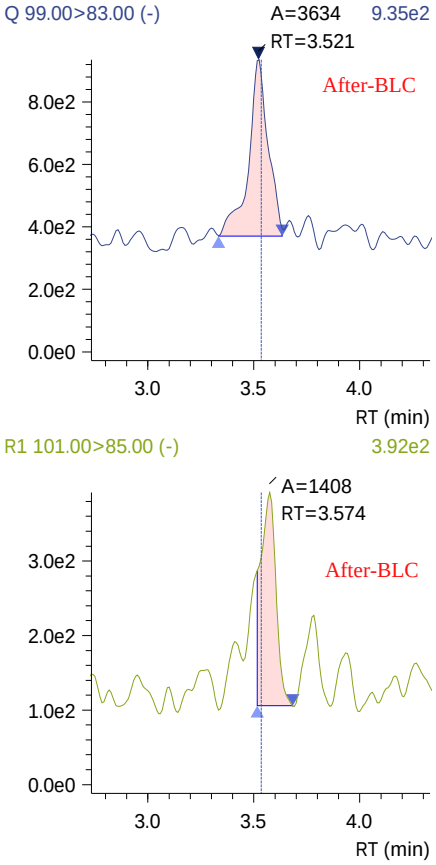
LODV

Sample ID: LODV
Date Acquired: 4/25/2024 11:00:35 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.521	3634	503955	0.0463	ng/mL	101.00 >85.00	38.75	23.32 -43.15
Sodium Perchlorate-18O4 _IS	Auto	3.533	503955	503955	1.0000	ng/mL	----	----	

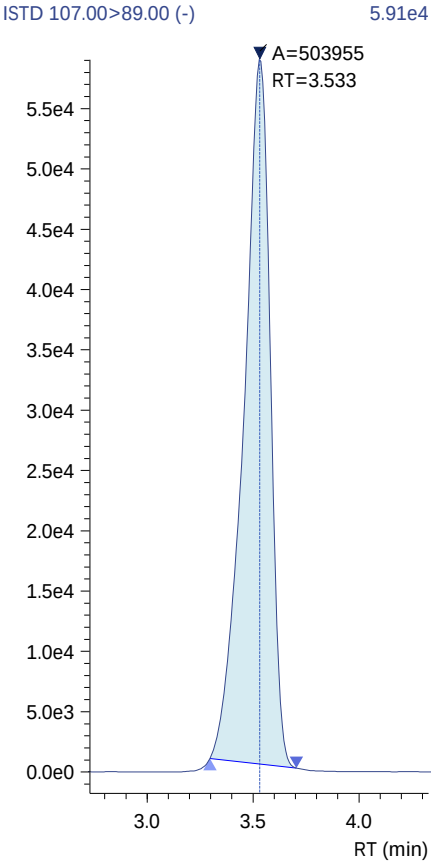
Perchlorate

Conc 0.0463
R#1 38.75 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 11:25:40 AM

Method File: I:\LCMS01\DATA\20240425\20240425.lcm
Project File: I:\LCMS01\DATA\20240425\20240425.damlp

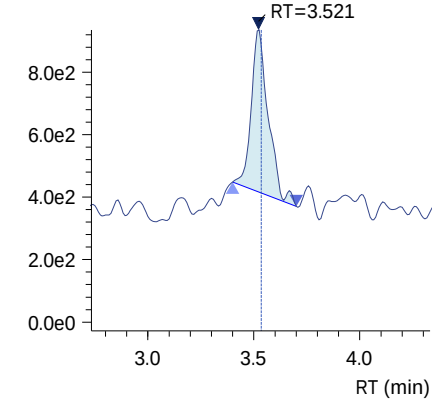
LODV

Sample ID: LODV
Date Acquired: 4/25/2024 11:00:35 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-003.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

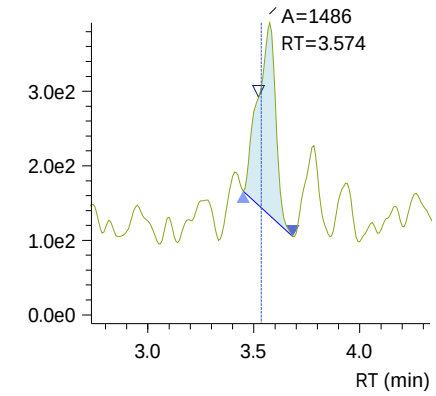
Perchlorate

Conc 0.0367
R#1 51.58 (34.10)

Q 99.00>83.00 (-) A=2880 9.35e2



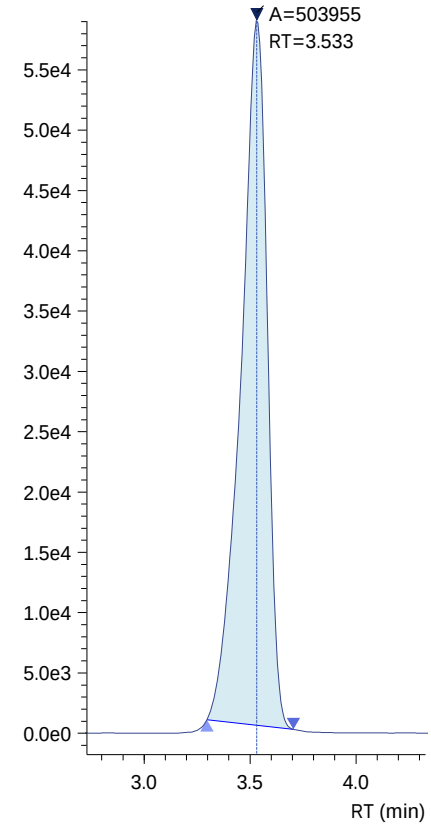
R1 101.00>85.00 (-) 3.92e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.91e4



Insight Report

Printed at 4/26/2024 11:23:09 AM

EQ2400193-04ICS

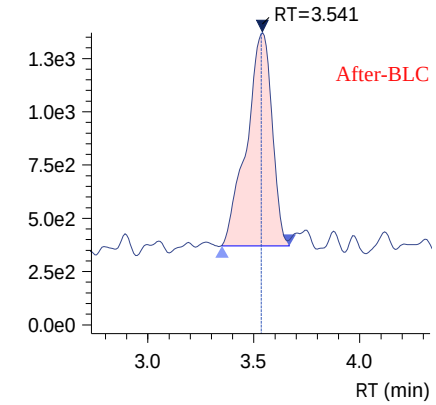
Sample ID: EQ2400193-04ICS
Date Acquired: 4/25/2024 11:06:07 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.541	8332	566919	0.0943	ng/mL	101.00 >85.00	33.91	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.532	566919	566919	1.0000	ng/mL	----	----	

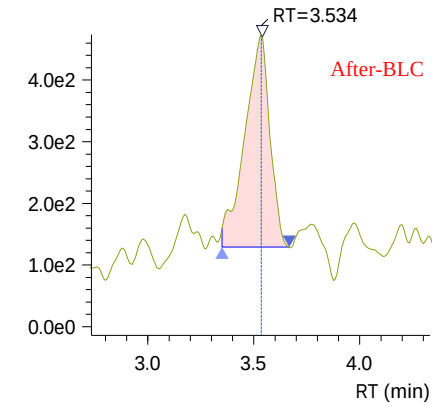
Perchlorate

Conc 0.0943
R#1 33.91 (34.10)

Q 99.00>83.00 (-) A=8332 1.37e3



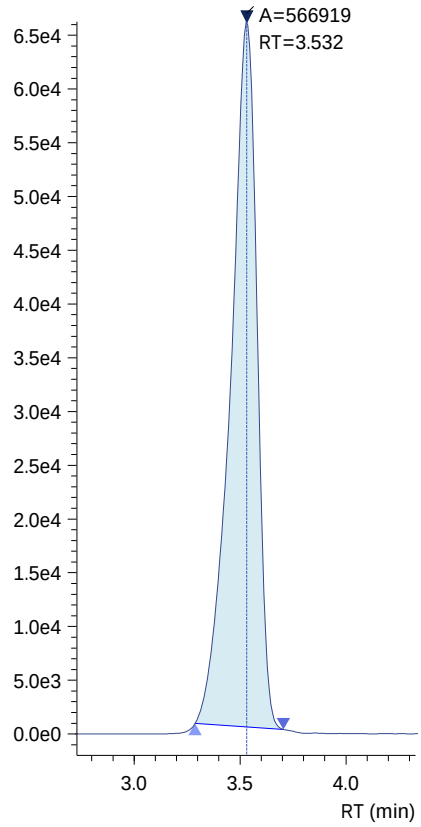
R1 101.00>85.00 (-) A=2826 4.74e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.63e4



Insight Report

Printed at 4/26/2024 11:25:40 AM

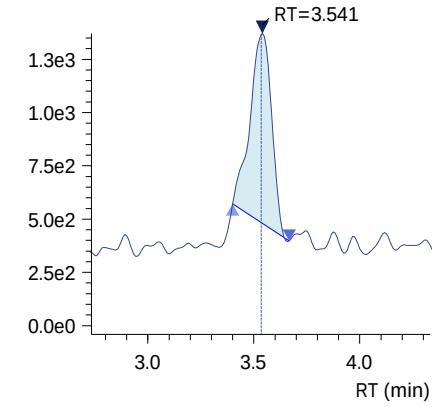
EQ2400193-04ICS

Sample ID: EQ2400193-04ICS
Date Acquired: 4/25/2024 11:06:07 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-004.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

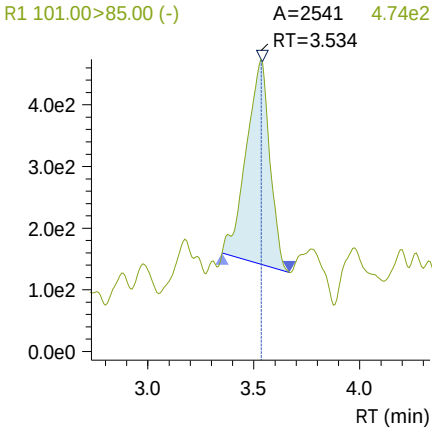
Perchlorate

Conc 0.0709
R#1 40.56 (34.10)

Q 99.00>83.00 (-) A=6264 1.37e3



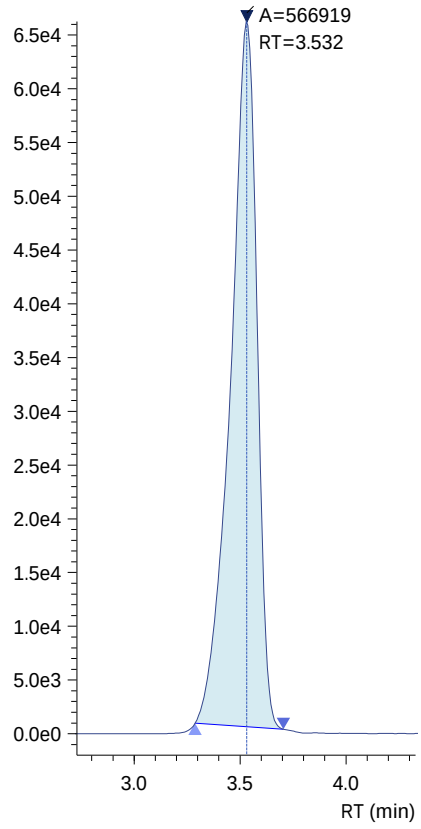
R1 101.00>85.00 (-) A=2541 4.74e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.63e4



Insight Report

Printed at 4/26/2024 11:23:09 AM

CCV

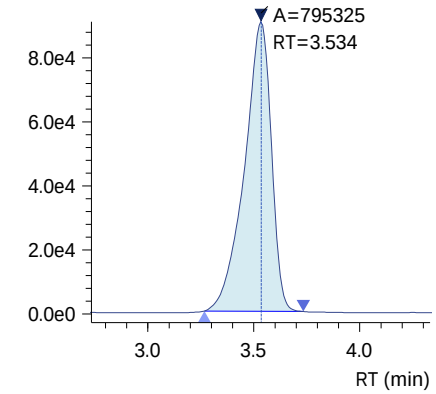
Sample ID: CCV
Date Acquired: 4/25/2024 11:11:41 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-005.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.534	7953 25	508067	10.0 472	ng/mL	101.00 >85.00	33.22	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.532	5080 67	508067	1.0000	ng/mL	----	----	

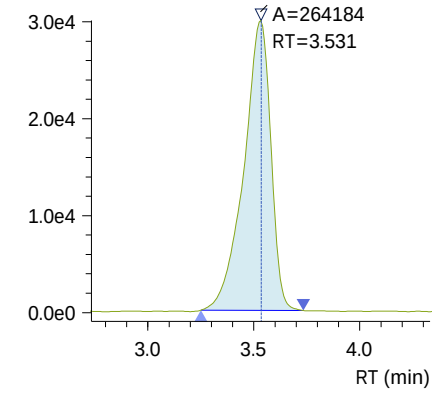
Perchlorate

Conc 10.0472
R#1 33.22 (34.10)

Q 99.00>83.00 (-) 9.13e4



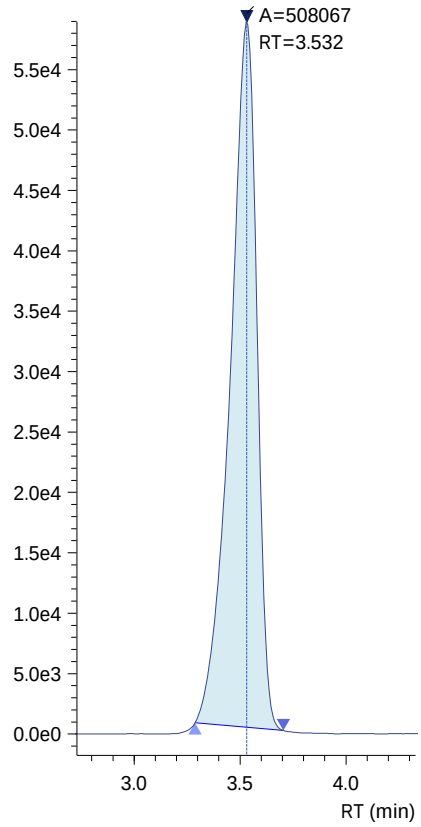
R1 101.00>85.00 (-) 3.01e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.90e4



Insight Report

Printed at 4/26/2024 11:23:09 AM

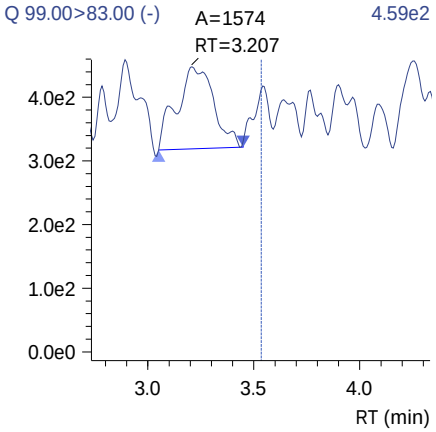
IB

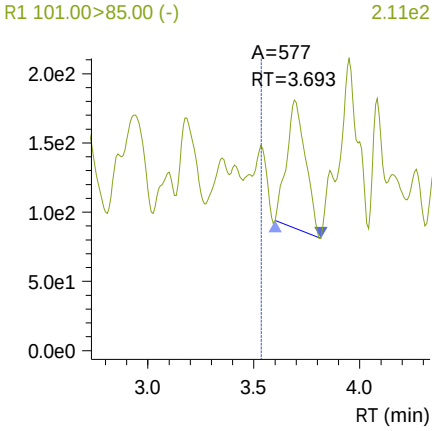
Sample ID: IB
Date Acquired: 4/25/2024 11:17:14 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-006.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	520202	----	ng/mL	101.00 >85.00	0.00	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.528	520202	520202	1.0000	ng/mL	----	----	

Perchlorate

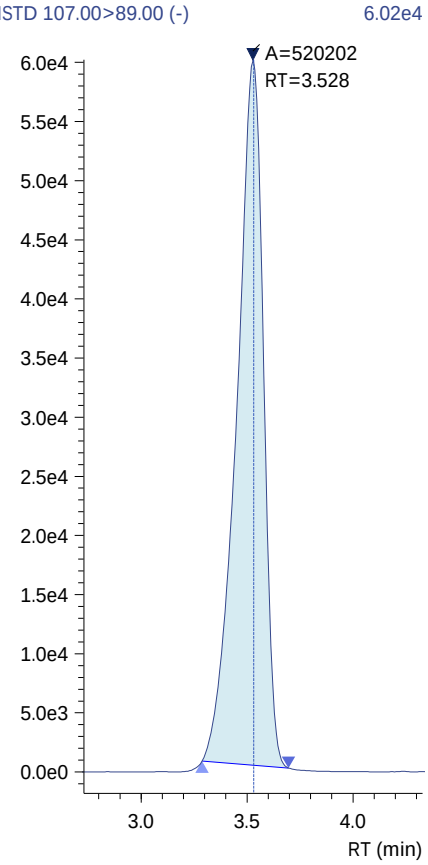
Conc ----
R#1 0.00 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 11:23:09 AM

E2400416-001

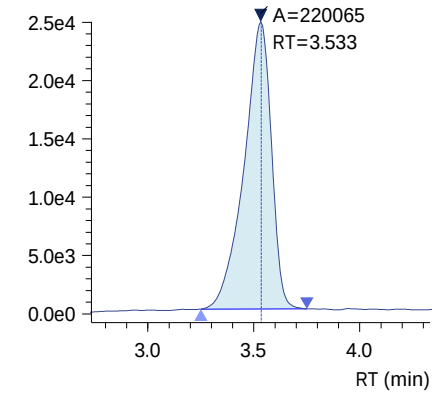
Sample ID: E2400416-001
Date Acquired: 4/25/2024 2:02:07 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-014.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.533	220065	466539	3.0275	ng/mL	101.00 >85.00	34.31	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.529	466539	466539	1.0000	ng/mL	----	----	

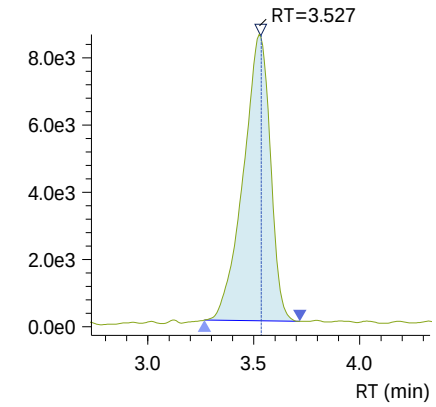
Perchlorate

Conc 3.0275
R#1 34.31 (34.10)

Q 99.00>83.00 (-) 2.50e4



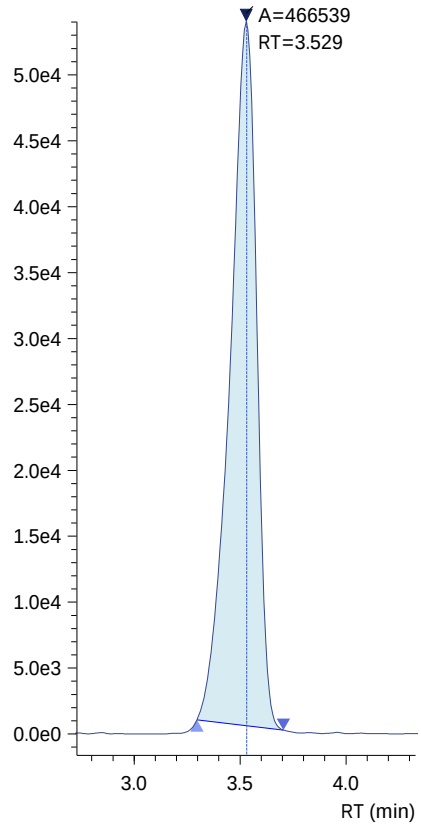
R1 101.00>85.00 (-) A=75507 8.69e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.40e4



Insight Report

Printed at 4/26/2024 11:23:09 AM

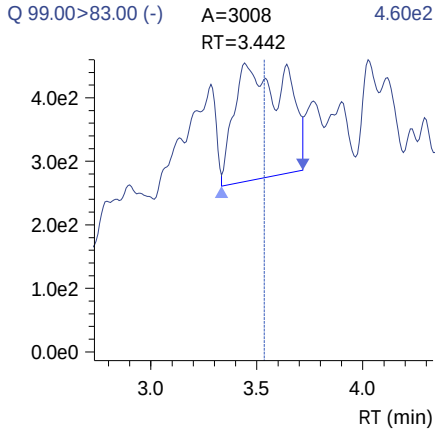
E2400416-002

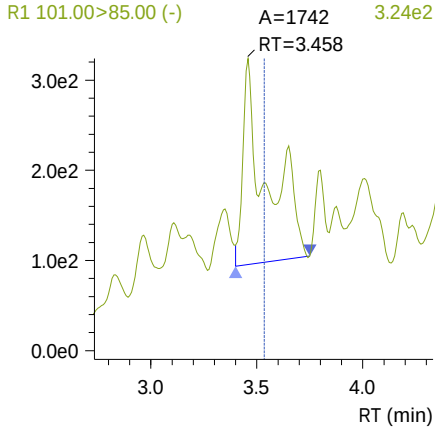
Sample ID: E2400416-002
Date Acquired: 4/25/2024 2:07:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-015.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	480107	----	ng/mL	101.00 >85.00	57.91	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.526	480107	480107	1.0000	ng/mL	----	----	

Perchlorate

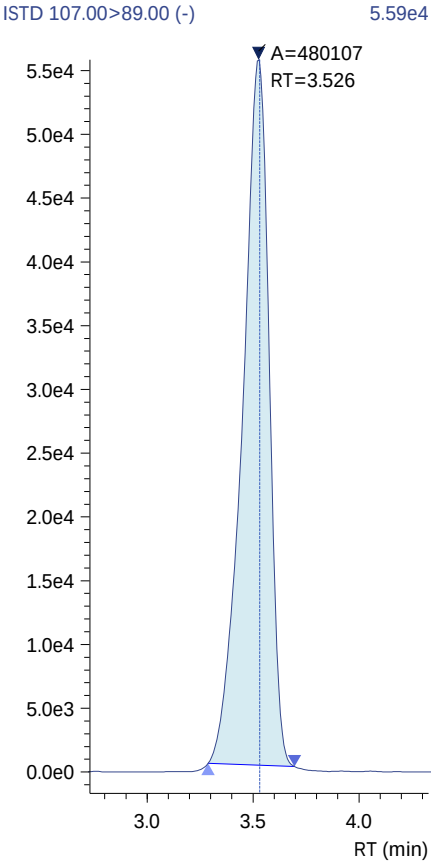
Conc ----
R#1 57.91 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 11:23:09 AM

CCV

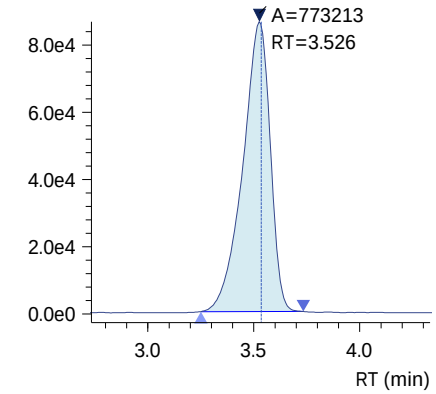
Sample ID: CCV
Date Acquired: 4/25/2024 2:13:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-016.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.526	7732 13	483490	10.2 644	ng/mL	101.00 >85.00	33.23	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.524	4834 90	483490	1.0000	ng/mL	----	----	

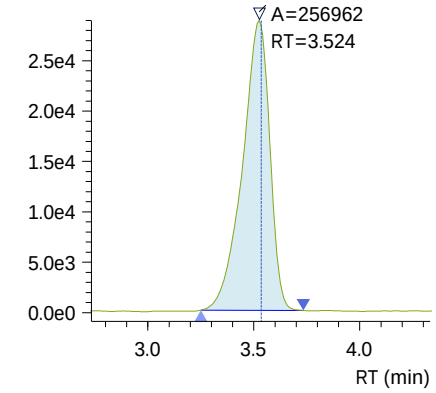
Perchlorate

Conc 10.2644
R#1 33.23 (34.10)

Q 99.00>83.00 (-) 8.69e4



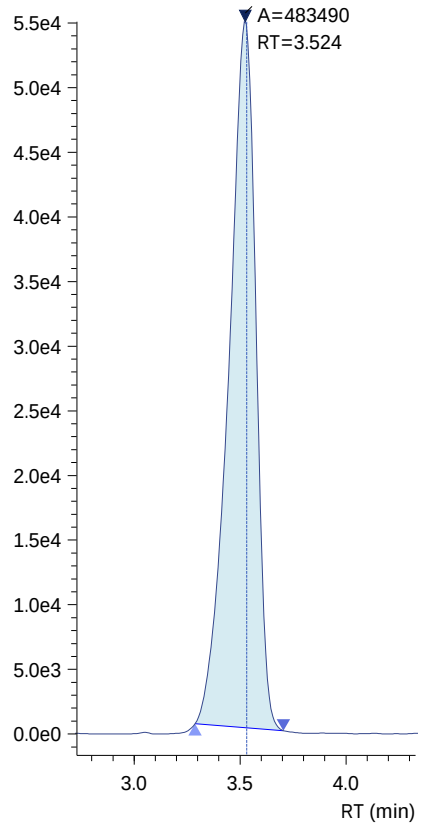
R1 101.00>85.00 (-) 2.90e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.51e4



Insight Report

Printed at 4/26/2024 11:23:09 AM

IB

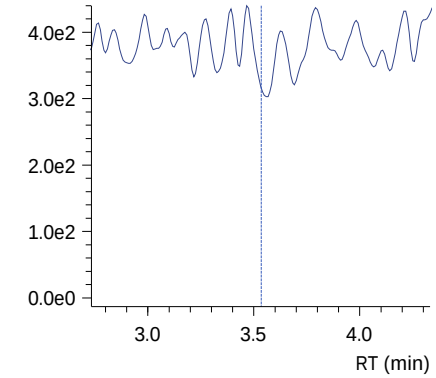
Sample ID: IB
Date Acquired: 4/25/2024 2:18:48 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-017.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	489317	----	ng/mL	101.00 >85.00	0.00	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.520	489317	489317	1.0000	ng/mL	----	----	

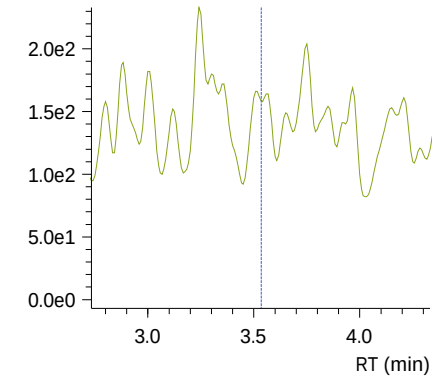
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 4.40e2



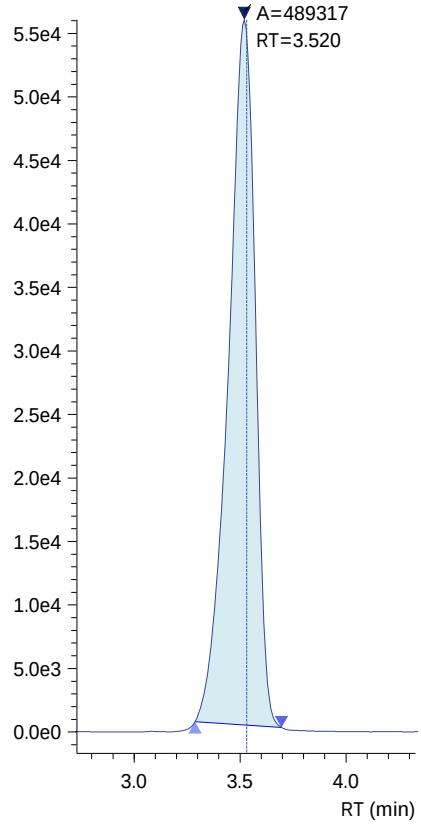
R1 101.00>85.00 (-) 2.33e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.61e4



Insight Report

Printed at 4/26/2024 11:23:09 AM

CCV

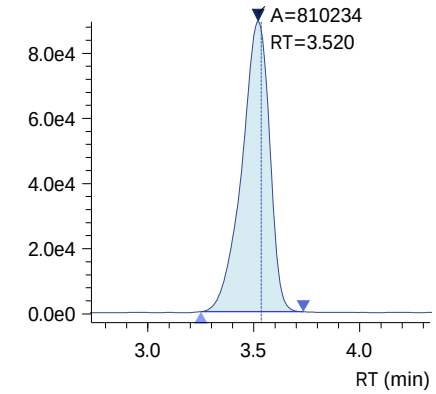
Sample ID: CCV
Date Acquired: 4/25/2024 3:15:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-027.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.520	8102 34	493245	10.5 432	ng/mL	101.00 >85.00	32.83	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.519	4932 45	493245	1.0000	ng/mL	----	----	

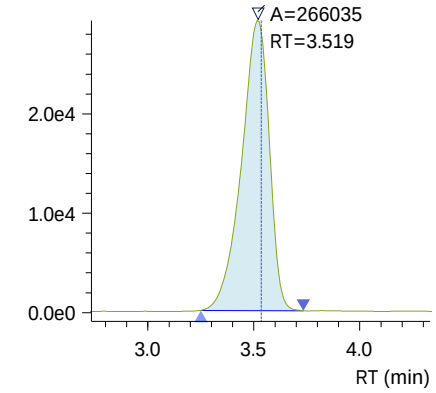
Perchlorate

Conc 10.5432
R#1 32.83 (34.10)

Q 99.00>83.00 (-) 8.97e4



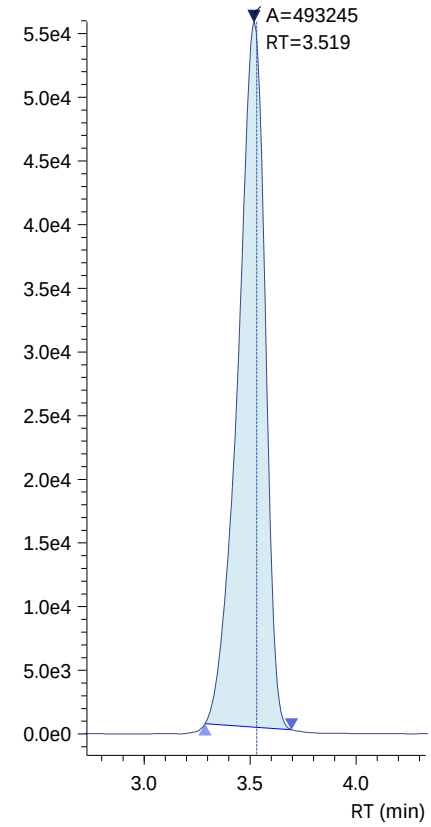
R1 101.00>85.00 (-) 2.94e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.59e4



Insight Report

Printed at 4/26/2024 11:23:09 AM

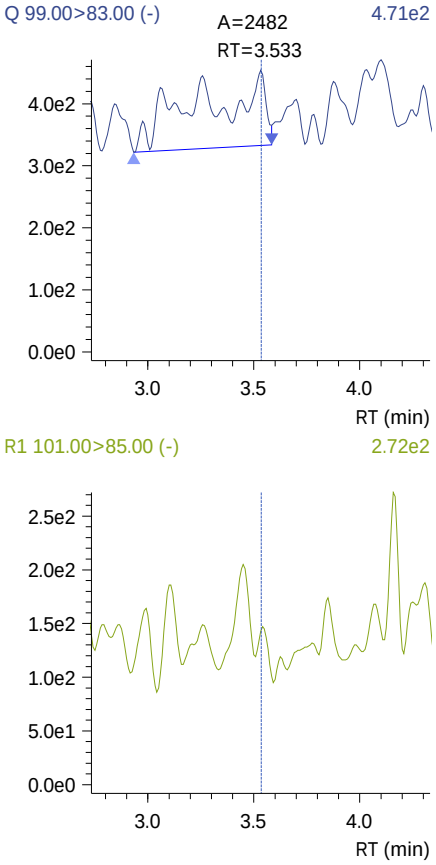
IB

Sample ID: IB
Date Acquired: 4/25/2024 3:20:33 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-028.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	NI	----	----	497945	----	ng/mL	101.00 >85.00	0.00	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.517	497945	497945	1.0000	ng/mL	----	----	

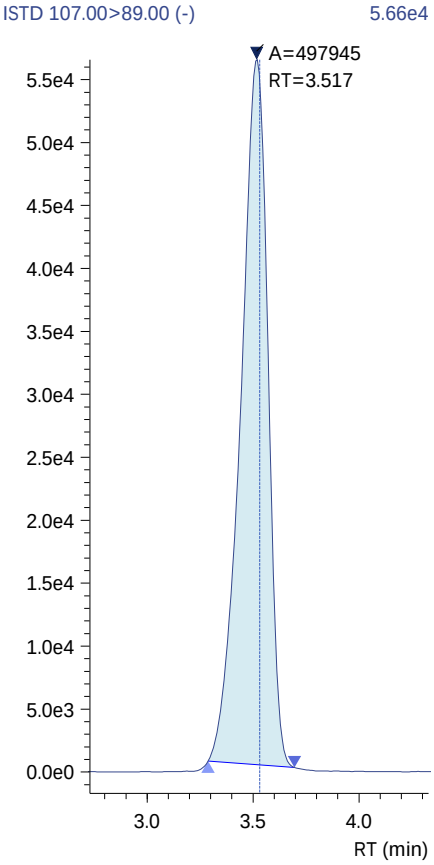
Perchlorate

Conc ----
R#1 0.00 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 11:23:09 AM

EQ2400199-01MB

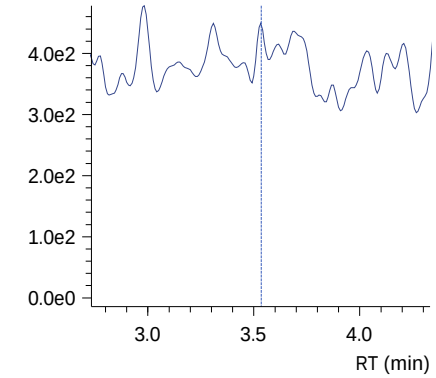
Sample ID: EQ2400199-01MB
Date Acquired: 4/25/2024 3:26:06 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-029.lcd
Vial: 34 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	521876	----	ng/mL	101.00 >85.00	0.00	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.517	521876	521876	1.0000	ng/mL	----	----	

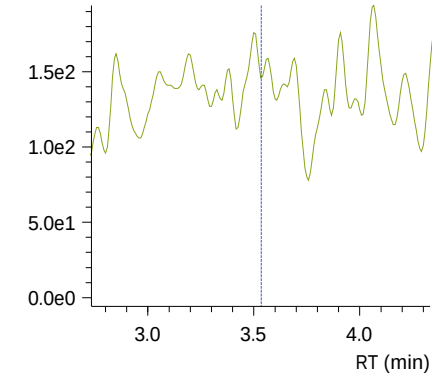
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 4.78e2



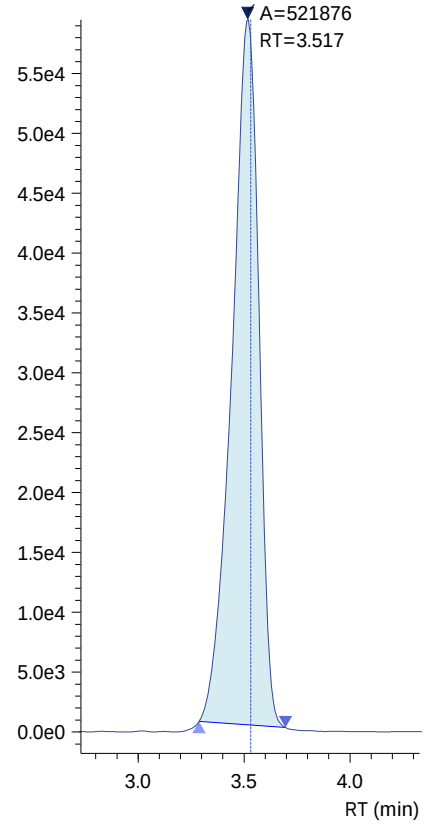
R1 101.00>85.00 (-) 1.94e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.95e4



Insight Report

Printed at 4/26/2024 11:23:09 AM

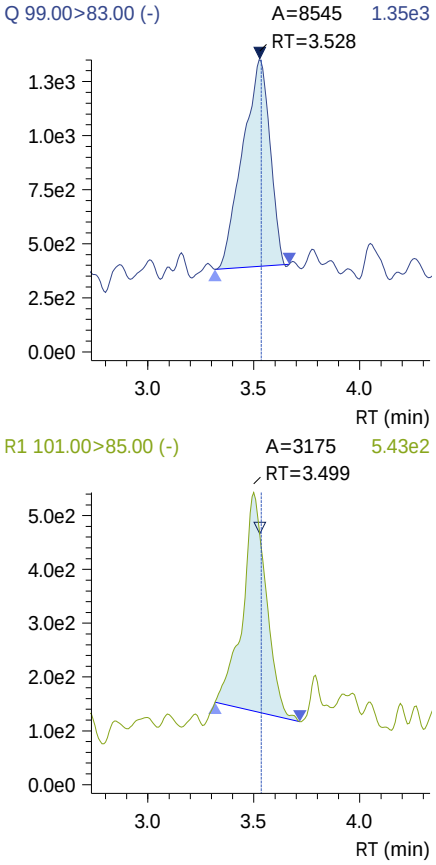
EQ2400199-02LCS

Sample ID: EQ2400199-02LCS
Date Acquired: 4/25/2024 3:31:39 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-030.lcd
Vial: 35 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.528	8545	512040	0.1071	ng/mL	101.00 >85.00	37.16	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.520	5120 40	512040	1.0000	ng/mL	----	----	

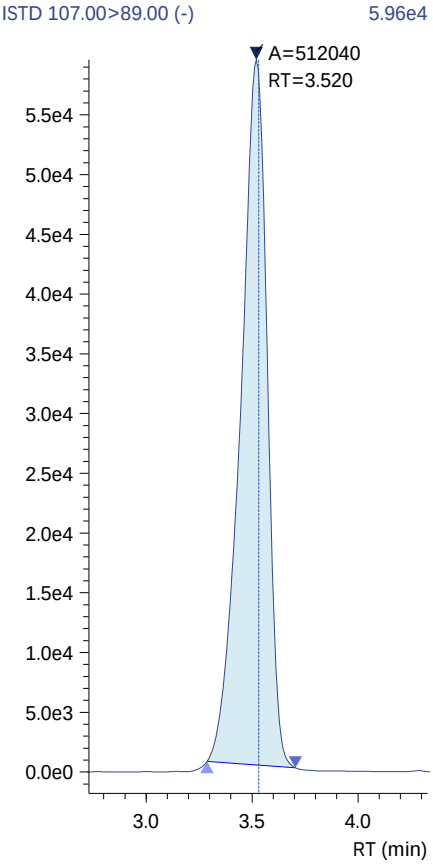
Perchlorate

Conc 0.1071
R#1 37.16 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 11:23:09 AM

EQ2400199-03DLCS

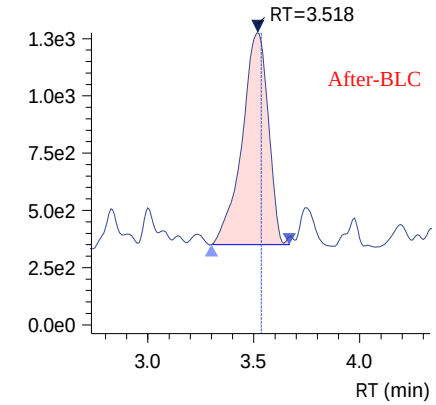
Sample ID: EQ2400199-03DLCS
Date Acquired: 4/25/2024 3:37:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-031.lcd
Vial: 36 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.518	7981	548806	0.0933	ng/mL	101.00 >85.00	32.47	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.519	548806	548806	1.0000	ng/mL	----	----	

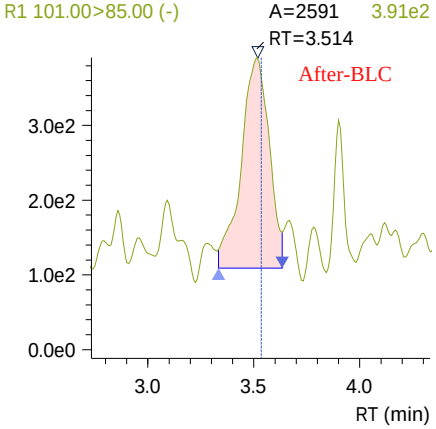
Perchlorate

Conc 0.0933
R#1 32.47 (34.10)

Q 99.00>83.00 (-) A=7981 1.28e3



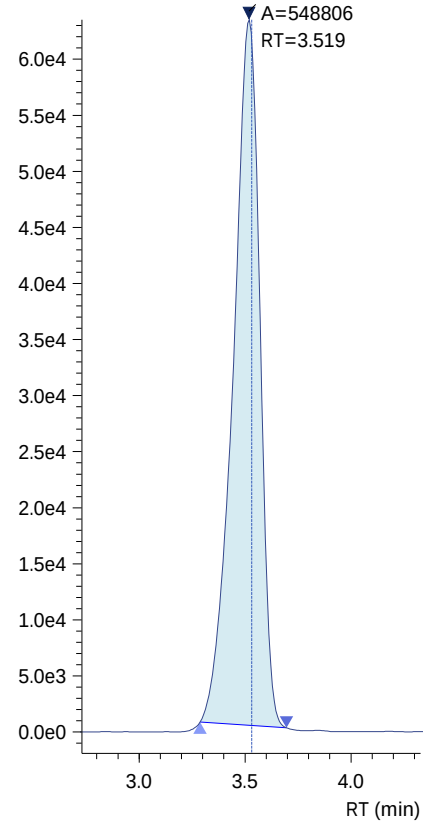
R1 101.00>85.00 (-) A=2591 3.91e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.35e4



Insight Report

Printed at 4/26/2024 11:25:40 AM

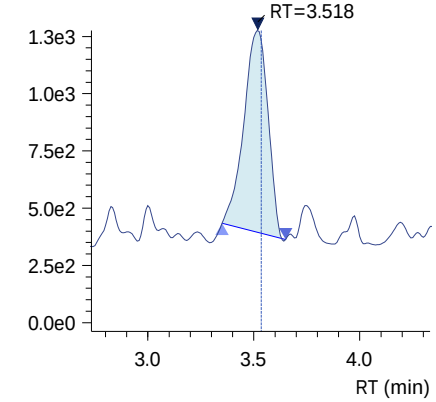
EQ2400199-03DLCS

Sample ID: EQ2400199-03DLCS
Date Acquired: 4/25/2024 3:37:11 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-031.lcd
Vial: 36 | Inj. Volume: 10.0000uL | Tray: 1

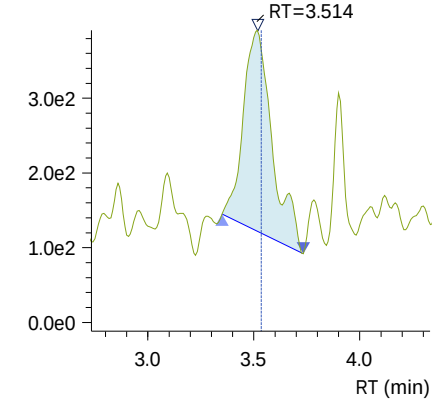
Perchlorate

Conc 0.0816
R#1 36.47 (34.10)

Q 99.00>83.00 (-) A=6978 1.28e3



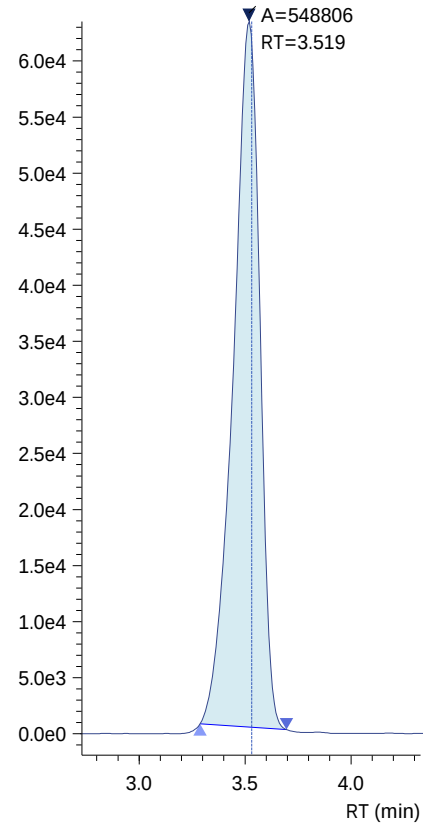
R1 101.00>85.00 (-) A=2545 3.91e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.35e4



Insight Report

Printed at 4/26/2024 11:23:09 AM

CCV

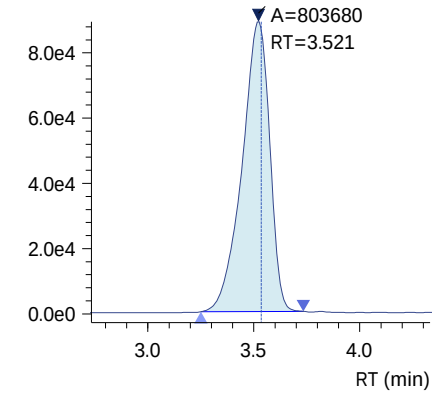
Sample ID: CCV
Date Acquired: 4/25/2024 3:53:47 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240425\20240425-034.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.521	8036 80	491496	10.4 951	ng/mL	101.00 >85.00	33.48	23.32 -43.15
Sodium Perchlorate-18O4_IS	Auto	3.519	4914 96	491496	1.0000	ng/mL	----	----	

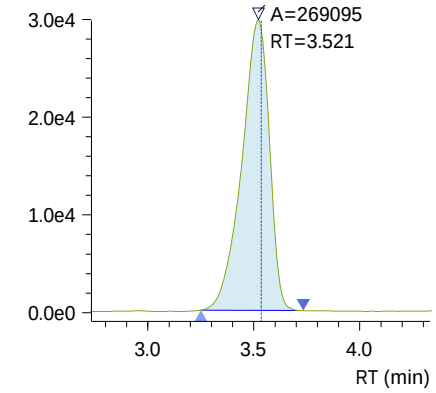
Perchlorate

Conc 10.4951
R#1 33.48 (34.10)

Q 99.00>83.00 (-) 8.96e4



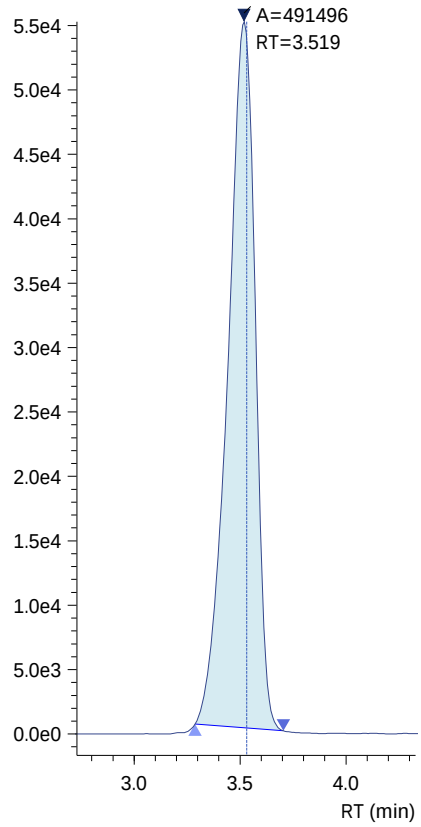
R1 101.00>85.00 (-) 2.99e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.53e4



10450 Stancliff Rd. Suite 210
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alsglobal.com

WorkOrder: HS24050103

Longhorn GW Treatment Plant Weekly Samples

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

19-Jun-2024

WorkOrder: HS24050103

ALS Environmental
ALS Group USA, Corp
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Houston, TX 77099
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HS24050103 Longhorn GW Treatment Plant Weekly Samples COVER PAGE

ALS WO# HS24050103

HS24050103 Longhorn GW Treatment Plant Weekly Samples Final

ALS WO# HS24050103

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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May 10, 2024

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

Work Order: **HS24050103**

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

Dear Marcia Olive,

ALS Environmental received 3 sample(s) on May 02, 2024 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: DAYNA.FISHER
Luis.Aguilar

ALS Houston, US Date: 10-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24050103

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24050103-01	LH18/24-SP650_050124	Water		01-May-2024 13:00	02-May-2024 09:45	☐
HS24050103-02	LH18/24-SP650_050124_BIX	Water		01-May-2024 13:00	02-May-2024 09:45	☐
HS24050103-03	LH18/24-SP650_050124_AIX	Water		01-May-2024 13:00	02-May-2024 09:45	☐

ALS Houston, US Date: 10-May-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: Longhorn GW Treatment Plant Weekly Samples
Work Order: HS24050103

Work Order Comments

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

WetChemistry by Method E415.1

Batch ID: R466426

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

WetChemistry by Method E350.3

Batch ID: R466227

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

WetChemistry by Method E365.3

Batch ID: R465778

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

ALS Houston, US Date: 10-May-24

Client: Bhate Environmental Associates, Inc.
ANALYTICAL REPORT
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder:HS24050103
Sample ID: LH18/24-SP650_050124
Lab ID:HS24050103-01
Collection Date: 01-May-2024 13:00
Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
AMMONIA AS N BY E350.3(ISE)		**Method:E350.3**						Analyst: HB
Nitrogen, Ammonia (As N)	**11**	a	**0.10**	**0.20**	**0.20**	**mg/L**	1	08-May-2024 13:00
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**						Analyst: HB
Phosphorus, Total Orthophosphate (As P)	**4.40**	a	**0.500**	**1.25**	**1.25**	**mg/L**	50	02-May-2024 11:46
TOTAL ORGANIC CARBON BY E415.1		**Method:E415.1**						Analyst: JAC
Organic Carbon, Total	**4.39**	a	**0.500**	**1.00**	**1.00**	**mg/L**	1	09-May-2024 19:50

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

ALS Houston, US Date: 10-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Longhorn GW Treatment Plant Weekly Samples WorkOrder:HS24050103
Sample ID: LH18/24-SP650_050124_BIX Lab ID:HS24050103-02
Collection Date: 01-May-2024 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	06-May-2024 11:13

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

ALS Houston, US Date: 10-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**
Project: Longhorn GW Treatment Plant Weekly Samples WorkOrder:HS24050103
Sample ID: LH18/24-SP650_050124_AIX Lab ID:HS24050103-03
Collection Date: 01-May-2024 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	06-May-2024 11:13

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

ALS Houston, US Date: 10-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24050103

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R465778 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS24050103-01	LH18/24-SP650_050124	01 May 2024 13:00			02 May 2024 11:46	50
Batch ID: R465916 (0)	**Test Name :** SUBCONTRACT ANALYSIS - PERCHLORATE (EPA 6850)				**Matrix:** Water	
HS24050103-02	LH18/24-SP650_050124_BIX	01 May 2024 13:00			06 May 2024 11:13	1
HS24050103-03	LH18/24-SP650_050124_AIX	01 May 2024 13:00			06 May 2024 11:13	1
Batch ID: R466227 (0)	**Test Name :** AMMONIA AS N BY E350.3(ISE)				**Matrix:** Water	
HS24050103-01	LH18/24-SP650_050124	01 May 2024 13:00			08 May 2024 13:00	1
Batch ID: R466426 (0)	**Test Name :** TOTAL ORGANIC CARBON BY E415.1				**Matrix:** Water	
HS24050103-01	LH18/24-SP650_050124	01 May 2024 13:00			09 May 2024 19:50	1

ALS Houston, US Date: 10-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24050103

QC BATCH REPORT

Batch ID: R465778 (0) **Instrument:** UV-2450 **Method:** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978

MBLK Sample ID: **MBLK-R465778** Units: **mg/L** Analysis Date: **02-May-2024 11:46**
Client ID: Run ID: **UV-2450_465778** SeqNo: **7989548** 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)	0.0250	0.0250								U

LCS Sample ID: **LCS-R465778** Units: **mg/L** Analysis Date: **02-May-2024 11:46**
Client ID: Run ID: **UV-2450_465778** SeqNo: **7989547** 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)	0.252	0.0250	0.25	0	101	80 - 120				

MS Sample ID: **HS24050103-01MS** Units: **mg/L** Analysis Date: **02-May-2024 11:46**
Client ID: **LH18/24-SP650_050124** Run ID: **UV-2450_465778** SeqNo: **7989550** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	16.5	1.25	12.5	4.4	96.8	80 - 120				

MSD Sample ID: **HS24050103-01MSD** Units: **mg/L** Analysis Date: **02-May-2024 11:46**
Client ID: **LH18/24-SP650_050124** Run ID: **UV-2450_465778** SeqNo: **7989549** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	16.95	1.25	12.5	4.4	100	80 - 120	16.5	2.69	20	

The following samples were analyzed in this batch: HS24050103-01

ALS Houston, US Date: 10-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24050103

QC BATCH REPORT

Batch ID: R466227 (0) **Instrument: WetChem_HS** **Method: AMMONIA AS N BY E350.3(ISE)**

MBLK Sample ID: **MBLK-R466227** Units: **mg/L** Analysis Date: **08-May-2024 13:00**
Client ID: Run ID: **WetChem_HS_466227** SeqNo: **7999042** 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)	0.20	0.20								U

LCS Sample ID: **LCS-R466227** Units: **mg/L** Analysis Date: **08-May-2024 13:00**
Client ID: Run ID: **WetChem_HS_466227** SeqNo: **7999041** 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)	9.989	0.20	10	0	99.9	80 - 120				

MS Sample ID: **HS24050028-01MS** Units: **mg/L** Analysis Date: **08-May-2024 13:00**
Client ID: Run ID: **WetChem_HS_466227** SeqNo: **7999044** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	10.02	0.20	10	0.326	97.0	80 - 120				

MSD Sample ID: **HS24050028-01MSD** Units: **mg/L** Analysis Date: **08-May-2024 13:00**
Client ID: Run ID: **WetChem_HS_466227** SeqNo: **7999043** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Ammonia (As N)	10	0.20	10	0.326	96.8	80 - 120	10.02	0.21	20	

The following samples were analyzed in this batch: HS24050103-01

ALS Houston, US Date: 10-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: HS24050103

QC BATCH REPORT

Batch ID: R466426 (0) **Instrument: TOC_05** **Method: TOTAL ORGANIC CARBON BY E415.1**

MBLK Sample ID: **MBLK-05092024** Units: **mg/L** Analysis Date: **09-May-2024 19:13**
Client ID: Run ID: **TOC_05_466426** SeqNo: **8003304** 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-05092024** Units: **mg/L** Analysis Date: **09-May-2024 19:26**
Client ID: Run ID: **TOC_05_466426** SeqNo: **8003305** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.676	1.00	10	0	96.8	85 - 115				

LCSD Sample ID: **LCSD-05092024** Units: **mg/L** Analysis Date: **09-May-2024 19:38**
Client ID: Run ID: **TOC_05_466426** SeqNo: **8003306** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.79	1.00	10	0	97.9	85 - 115	9.676	1.17	20	

MS Sample ID: **HS24050252-01MS** Units: **mg/L** Analysis Date: **09-May-2024 21:00**
Client ID: Run ID: **TOC_05_466426** SeqNo: **8003313** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	13	1.00	10	3.544	94.6	80 - 120				

The following samples were analyzed in this batch: HS24050103-01

ALS Houston, US Date: 10-May-24

Client: Bhate Environmental Associates, Inc.
Project: Longhorn GW Treatment Plant Weekly Samples
WorkOrder: **HS24050103**

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
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Kentucky	123043	30-Apr-2025
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

ALS Houston, US Date: 10-May-24

Sample Receipt Checklist

Work Order ID: HS24050103 **Date/Time Received:** **02-May-2024 09:45**

Client Name: Bhate Environmental **Received by:** **Jacob Coronado**

Completed By:	/S/ Jacob Coronado	02-May-2024 10:40	**Reviewed by:**	/S/ Luis.Aguilar	06-May-2024 08:11
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **w** Carrier name: **FedEx**

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

Temperature(s)/Thermometer(s):	2.9uc/3.0c	ir31
Cooler(s)/Kit(s):	52077	
Date/Time sample(s) sent to storage:	05/02/2024 1040	

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:

HS24050103

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

CHAIN OF CUSTODY

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

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT WEEKLY SAMPLES**	
Prepared By: Scott Beesinger	P.O. Number BILL to PCI

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: AMMONIA-N	TOTAL ORGANIC CARBON	ORTHO-PHOSPHATE	PERCHLORATE							Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_050124	Water	05/01/24 / 13:00		3	X	X									H2SO4	
LH18/24-SP650_050124	Water	05/01/24 / 13:00		1			X								NONE	
LH18/24–SP650_050124_BIX	Water	05/01/24 / 13:00		1				X							NONE	
LH18/24- SP650_050124_AIX	Water	05/01/24 / 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	05/01/24	13:30		5/1/24	2045						

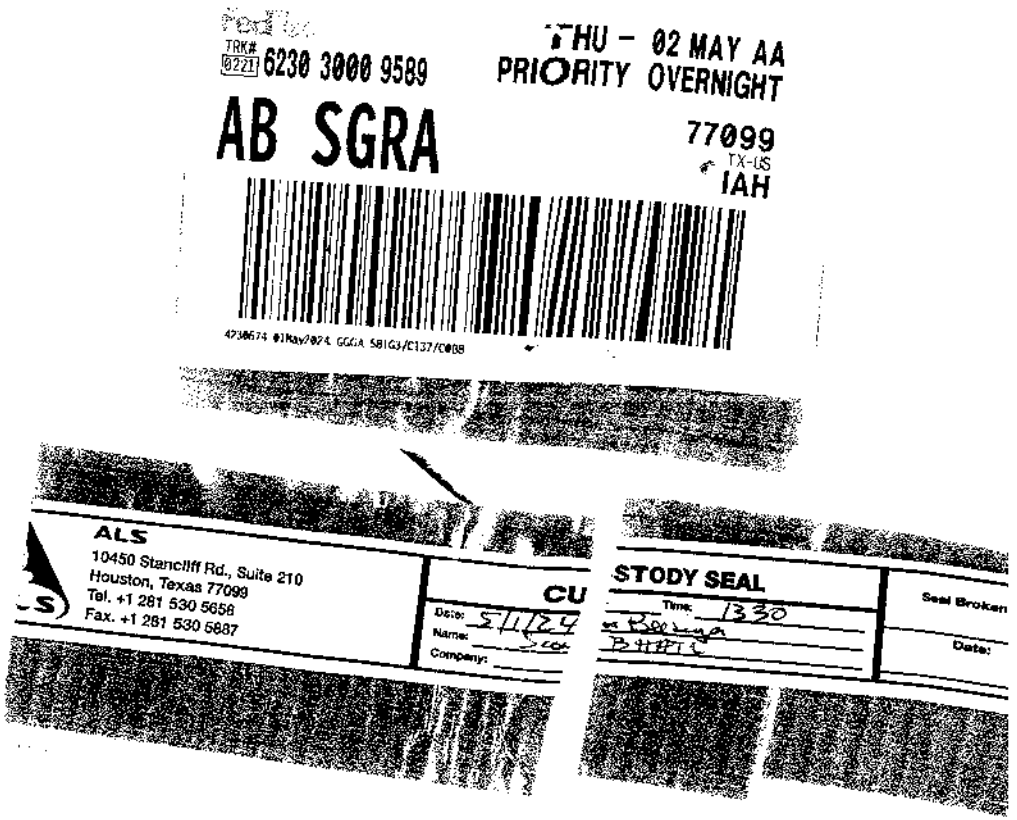
For Lab Use Only

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

Remarks:

52977 24 1021

(Word) S:\1-ces\Forms\Chain of Custody - BiWeekly


TRK# 6230 3000 9589
THU - 02 MAY AA
PRIORITY OVERNIGHT
AB SGRA
77099
TX-US
IAH
ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5687
CU
Date: 5/1/24
Name:
Company:
STODY SEAL
Time: 1330
Seal Broken
Date:

May 03, 2024 Service Request No:E2400432

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24050103

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 02, 2024
For your reference, these analyses have been assigned our service request number **E2400432.**

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 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

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

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400432
Project:	HS24050103	**Date Received:**	05/02/24
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 05/02/24.

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:

EQ2400214: 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:**E2400432
Project: HS24050103

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400432-001	LH18/24-SP650_050124_BIX	5/1/2024	1300
E2400432-002	LH18/24-SP650_050124_AIX	5/1/2024	1300

Service Request Summary

Folder #: **E2400432**
Client Name: ALS Environmental - US
Project Name: HS24050103
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/02/24
Internal Due Date: 5/3/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4A
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400432-001	LH18/24-SP650_050124_BIX	Water	05/01/24 1300	**IV**
E2400432-002	LH18/24-SP650_050124_AIX	Water	05/01/24 1300	**IV**

Service Request Summary

Folder #: **E2400432**
Client Name: ALS Environmental - US
Project Name: HS24050103
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/02/24
Internal Due Date: 5/3/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4A
Pressure Gas:

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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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Department of Defense	L24-240	4/30/2026
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

ALS Environmental - Houston Specialties Laboratory
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E2400432 5
ALS Environmental - US
HS24050103

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F: +1 281 530 5887
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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID: 25517**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24050103
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24050103-02**	**LH18/24-SP650_050124_BIX**	**Water**	**01 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			03 May 2024
2.	**HS24050103-03**	**LH18/24-SP650_050124_AIX**	**Water**	**01 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			03 May 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
24 HR TAT for Perchlorates

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: JC Date/Time: 5/2/24 0945

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

E2400432
ALS Environmental - US
HS24050103

5

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Sample Receipt Checklist

Work Order ID: HS24050103 **Date/Time received:** 02 May 2024 09:45

Client name: Bhate Environmental Associates, Inc. **Received by:** Jacob Coronado

Completed/By: 02 May 2024 10:40 (Date/Time) Jacob Coronado (eSignature) **Reviewed/By:** _____ (Date/Time) _____ (eSignature)

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	COC ID(s):
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/3.0c ir31

Cooler Information: 1 Cooler(s), 52077

Date/Time sample(s) sent to storage: 05/02/2024 1040

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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SAMPLE ACCEPTANCE POLICY

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

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

- ✓ Intact on outside of cooler, signed and dated

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

The following is required on each COC:

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

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

Sample Integrity (mandatory):

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

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

Temperature Requirement (varies by sample matrix):

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

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

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 437886 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/NVOSS **Prep Method:** Method **Prep Date/Time:** 5/2/24 14:22

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400432-001	LH18/24-SP650_050124_BIX	.01	6850/ClO4 DOD			Water	10mL	
2	E2400432-002	LH18/24-SP650_050124_AIX	.01	6850/ClO4 DOD			Water	10mL	
3	EQ2400214-03	LCS		6850/ClO4 DOD			Liquid	10mL	
4	EQ2400214-04	DLCS		6850/ClO4 DOD			Liquid	10mL	
5	EQ2400214-05	MB		6850/ClO4 DOD			Liquid	10mL	
6	EQ2400214-06	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

E2400432-001 10.00µL E2400432-002 10.00µL EQ2400214-03 10.00µL EQ2400214-04 10.00µL EQ2400214-05 10.00µL EQ2400214-06 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400432-001 100.00µL E2400432-002 100.00µL EQ2400214-03 100.00µL EQ2400214-04 100.00µL EQ2400214-05 100.00µL EQ2400214-06 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400214-06 4.00µL

Preparation Steps

Step: Preparation
Started: 5/2/24 14:22
Finished: 5/2/24 15:00
By: NVOSS
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

ALS Environmental - Houston Specialties Laboratory
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Phone (281)530-5656 Fax (281)530-5887
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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400432
Project:	HS24050103	**Date Collected:**	5/ 1/24 1300
Sample Matrix:	Water	**Date Received:**	5/ 2/24
Sample Name:	LH18/24-SP650_050124_BIX	**Units:**	µg/L
Lab Code:	E2400432-001	**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	**1.61**		0.100	0.0500	0.0250	1	5/ 2/24	5/2/24 15:28	437886	839730	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400432
Project:	HS24050103	**Date Collected:**	5/ 1/24 1300
Sample Matrix:	Water	**Date Received:**	5/ 2/24
Sample Name:	LH18/24-SP650_050124_AIX	**Units:**	µg/L
Lab Code:	E2400432-002	**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	**0.0819**	J	0.100	0.0500	0.0250	1	5/ 2/24	5/2/24 15:33	437886	839730	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400432
Project:	HS24050103	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400214-05	**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	5/ 2/24	5/2/24 15:06	437886	839730	

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:**	E2400432
Project:	HS24050103	**Date Analyzed:**	5/ 2/24
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:	437886

	Lab Control Sample EQ2400214-03			Duplicate Lab Control Sample EQ2400214-04					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.108	0.100	108	0.119	0.100	119	84 - 119	10	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:**	E2400432
Project:	HS24050103	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400214-03	**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	**0.108**		0.100	0.0500	0.0250	1	5/ 2/24	5/2/24 15:11	437886	839730	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400432
Project:	HS24050103	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400214-04	**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	**0.119**		0.100	0.0500	0.0250	1	5/ 2/24	5/2/24 15:17	437886	839730	

HS24050103 Wetchem NIT-AMM_W-E350.3 - ISE - A

ALS WO# HS24050103

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

ISE_W_350.3 / ISE

Logbook **32521**

Ion Selective Electrode Logbook

Analyst: HB		Date: 5-8-24	13:00
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F			

Probe Calibration Date: 5-8-24	Cal Std ID: 325102604		Probe ID: NH_3-10		
Std Level	mV	Conc., mg/L:	Sodium Thiosulfate ID:		
STD 1 (mg/L): 0.2	120.4	0.20	Std Level	mV	Conc., mg/L:
STD 2 (mg/L): 1	89.8	1.00	STD 4 (mg/L): 10	43.0	10.00
STD 3 (mg/L): 5	58.5	5.00	STD 5 (mg/L): 50	2.8	50.00
LSC / MS Spike ID: 311120604			ICAL Date & Slope: 95% -56.0 mV		
ICV Cal STD ID: 325102605					
DPD Reagent ID: 3100608715					

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/–)	Comments
ICV		50	50		10.011			
ICB					0.006			
MDLk					0.005			
LCS					9.989			
0028-01					0.326		negative	Re-check
-01 MS					10.024			
-01 MSD					10.003			
0103-01					10.960			
0225-01					0.515			
0026-01					0.051			
-01 MS					9.937			
-01 MSD					9.904			
CCV ~~0238-01~~ HB 5-8-24					10.013			
CCB					0.005			
0238-01					0.022			
CCV					9.952			
CCB					0.004			

Batch ID: 466227 / 466230	Reported By HB	Reviewed By:

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HS24050103 Wetchem NIT-AMM_W-E350.3 - ISE - B

ALS WO# HS24050103

ISE_W_350.3

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Logbook **32521**

Ion Selective Electrode Logbook

Analyst: HB					Date: 5-20-24			
Method: SM4500NH3-D/EPA 350.3 or SM4500 NH3 B-F								
Probe Calibration Date: 5-20-24		Cal Std ID: 325104008			Probe ID: NH_3-10			
Std Level		mV	Conc., mg/L:		Sodium Thiosulfate ID:			
STD 1 (mg/L): 0.2		133.9	0.20		Std Level	mV	Conc., mg/L:	
STD 2 (mg/L): 1		97	1.00		STD 4 (mg/L): 10	41.1	10.00	
STD 3 (mg/L): 5		58.4	5.00		STD 5 (mg/L): 50	0.8	50.00	
LSC / MS Spike ID: 311202404					ICAL Date & Slope:			
ICV Cal STD ID: 300107097 08						91.4%	-52.7 mV	
DPD Reagent ID: 310060871 5								

WO # / SX #	Bottle #	Initial g or ml	Final Vol. ml	Dilution Factor	Initial Conc. mg/L	Final Conc. mg/L	Chlorine Check (+/–)	Comments
CCV		50	50		10.038			
CCB					0.004			
MBLK					0.003			
LCS					10.063			
HS2405084-01					0.646		–	
-01 MS					10.971		–	
01 MSD					10.988		–	
0961-01					0.851		–	
CCV					9.992			
CCB					0.005			
~~CCV 0103~~ HS 5-20-24					10.058			
CCB					0.005			
0103 -01					21.030		–	
CCV					10.960			
CCB					0.004			

Batch ID: 467171	Reported By HB	Reviewed By: CD

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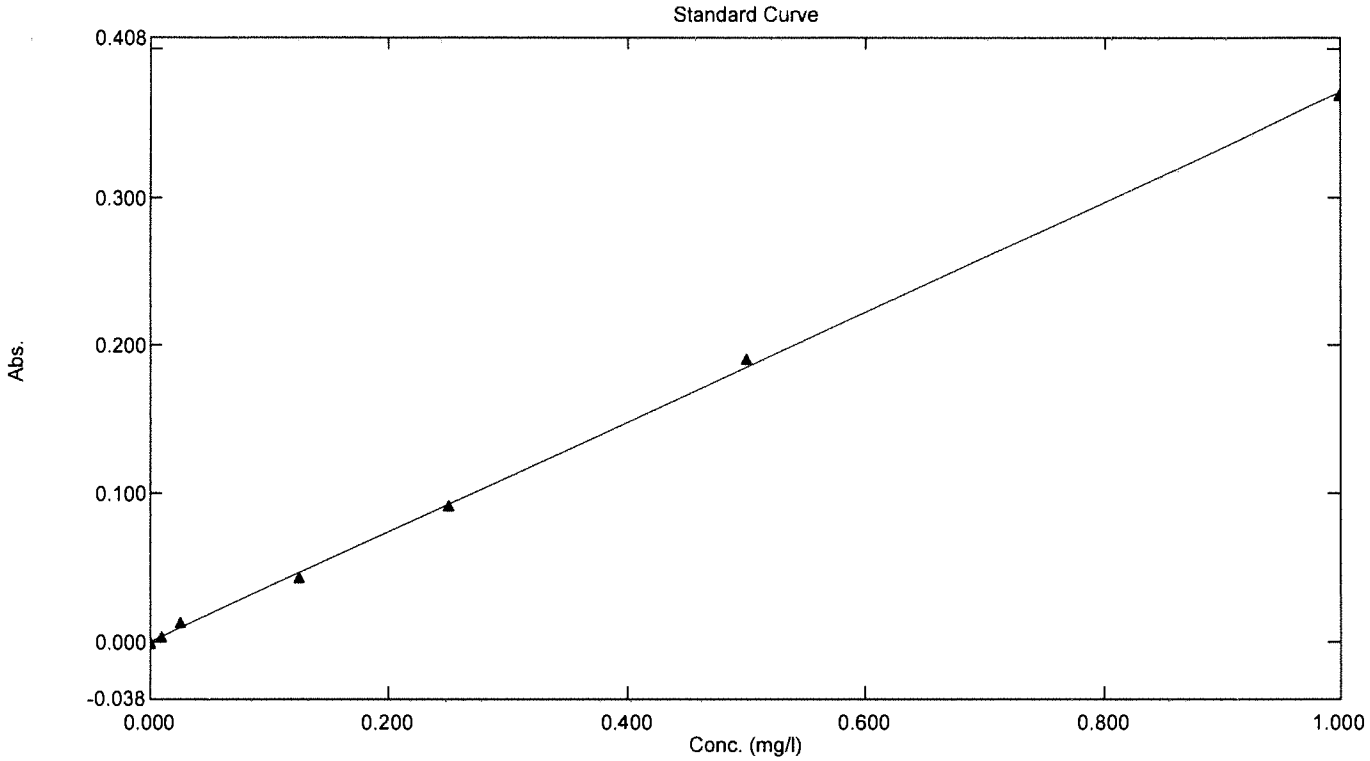
HS24050103 Wetchem P-ORTHO

ALS WO# HS24050103

Standard Table Report

06/19/2024 08:48:17 AM

File Name: C:\Program Files (x86)\Shimadzu\UVProbe\Data\P_ORTHO P_TW(365.3 METHOD)\2024\05022024P_ORTHO .pho



Correlation Coefficient r2 = 0.99941

Standard Table

	Sample ID	Type	Ex	Conc	WL650.0	Wgt.Factor	Comments
1	STD1	Standard		0.000	-0.001	1.000	
2	STD2	Standard		0.010	0.003	1.000	
3	STD3	Standard		0.025	0.013	1.000	
4	STD4	Standard		0.125	0.043	1.000	
5	STD5	Standard		0.250	0.091	1.000	
6	STD6	Standard		0.500	0.191	1.000	
7	STD7	Standard		1.000	0.369	1.000	06/06/2024
8							

Sample Table Report

06/19/2024 08:48:59 AM

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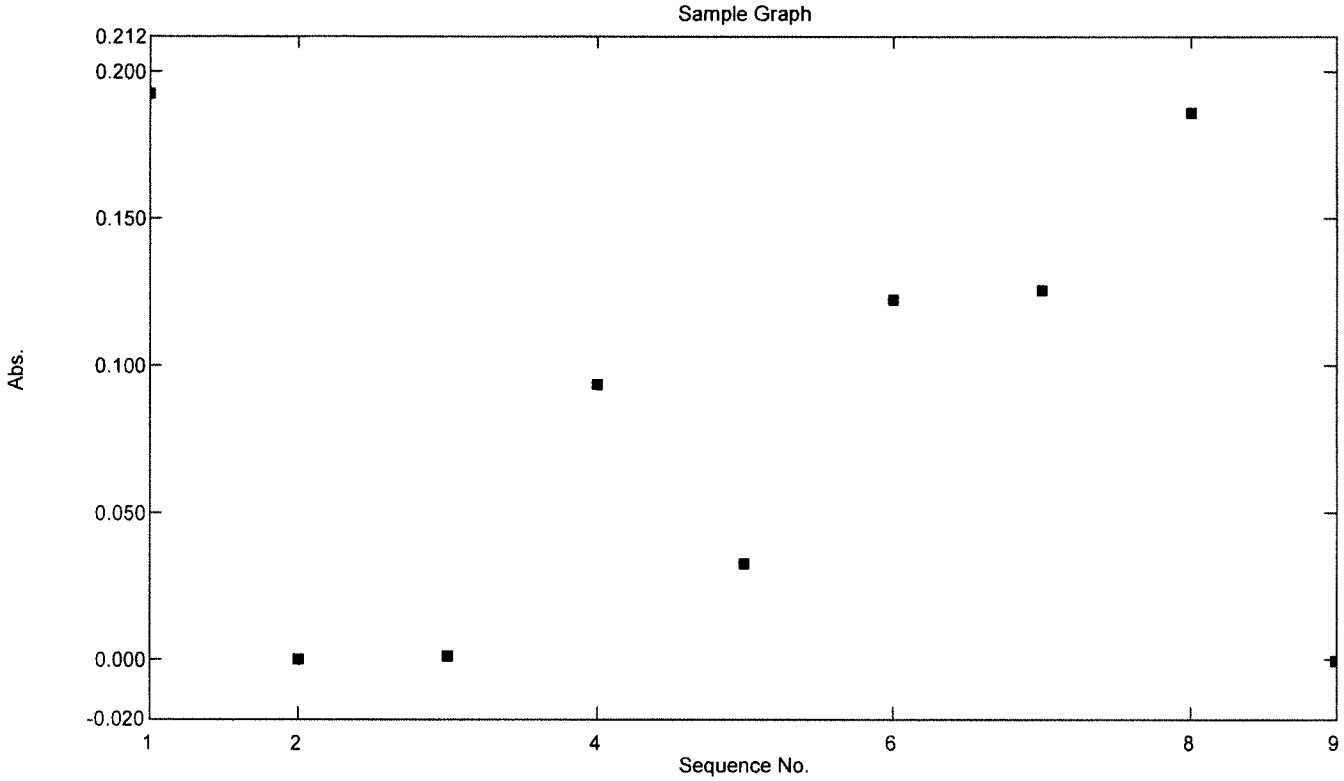


Sample Table

	Sample ID	Date	Time	Conc	WL650.	Comments
1	CCV	05/02/2024	11:46:03 AM	0.520	0.193	
2	CCB	05/02/2024	11:46:48 AM	-0.001	-0.000	
3	MBLK	05/02/2024	11:47:55 AM	0.003	0.001	
4	LCS	05/02/2024	11:48:34 AM	0.252	0.094	
5	HS24050103.01	05/02/2024	11:49:32 AM	0.088	0.033	DF:50X
6	HS24050103.01MS	05/02/2024	11:51:48 AM	0.330	0.122	DF:50X
7	HS24050103.01MSD	05/02/2024	11:52:22 AM	0.339	0.126	DF:50X
8	CCV2	05/02/2024	11:53:20 AM	0.501	0.186	
9	CCB2	05/02/2024	11:55:16 AM	-0.002	-0.001	
10						

HS24050103 Wetchem TOC_W ICAL - A

ALS WO# HS24050103

TOC-Control L Report

2024_04_25_001.tlx

Instr.Information

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

Cal. Curve

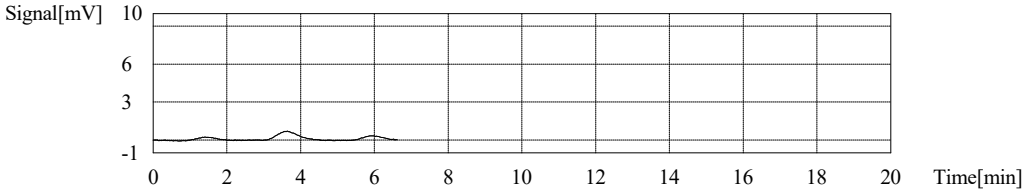
Sample Name:	CAL
Sample ID:	3100608307
Cal. Curve:	04.25.2024.2024_04_25_18_47_38.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.030	50uL	1.000	*******		4/25/2024 7:02:15 PM
2	2.685	50uL	1.000	*******		4/25/2024 7:05:10 PM
3	1.273	50uL	1.000	*******		4/25/2024 7:07:50 PM

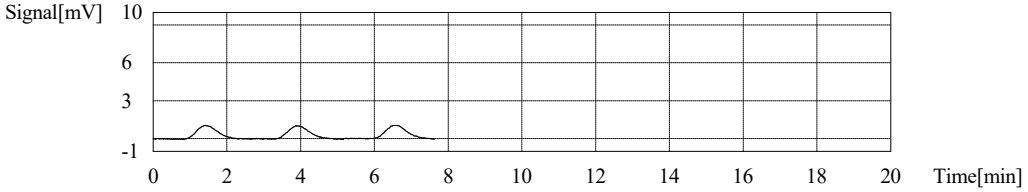
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 1.663



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.254	50uL	1.000	*******		4/25/2024 7:12:34 PM
2	4.362	50uL	1.000	*******		4/25/2024 7:15:50 PM
3	4.292	50uL	1.000	*******		4/25/2024 7:18:54 PM

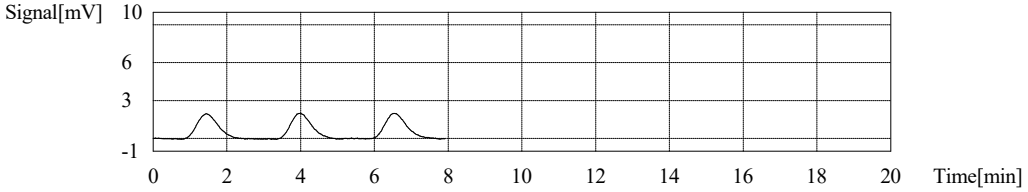
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 4.303



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.991	50uL	1.000	*******		4/25/2024 7:23:28 PM
2	8.033	50uL	1.000	*******		4/25/2024 7:26:37 PM
3	8.185	50uL	1.000	*******		4/25/2024 7:29:59 PM

Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 8.070

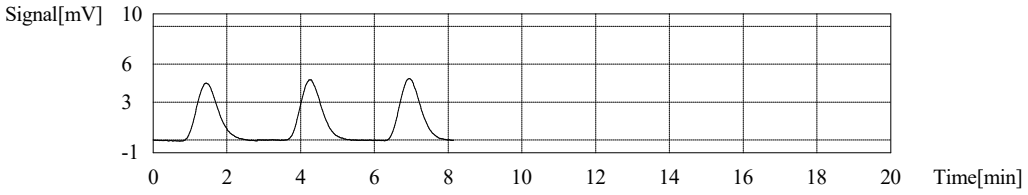


TOC-Control L Report

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	18.78	50uL	1.000	*******		4/25/2024 7:34:48 PM
2	19.04	50uL	1.000	*******		4/25/2024 7:38:05 PM
3	19.36	50uL	1.000	*******		4/25/2024 7:41:18 PM

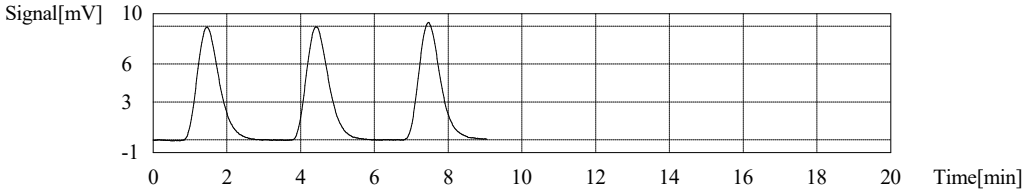
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 19.06



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	37.50	50uL	1.000	*******		4/25/2024 7:46:16 PM
2	37.56	50uL	1.000	*******		4/25/2024 7:49:55 PM
3	37.73	50uL	1.000	*******		4/25/2024 7:53:31 PM

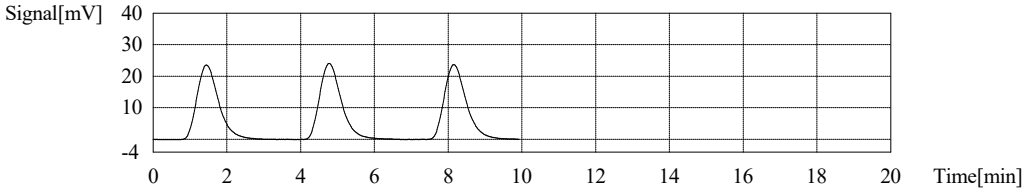
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 37.60



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	96.41	50uL	1.000	*******		4/25/2024 7:58:51 PM
2	97.85	50uL	1.000	*******		4/25/2024 8:02:48 PM
3	97.79	50uL	1.000	*******		4/25/2024 8:06:36 PM

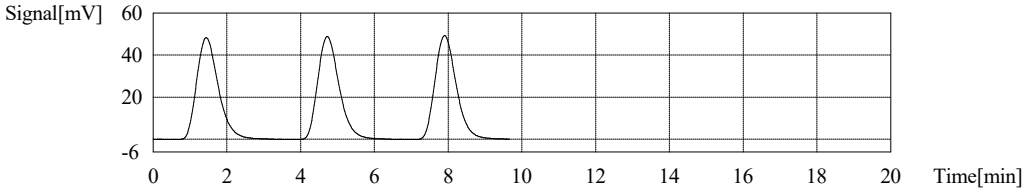
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 97.35



Conc: 50.00mg/L

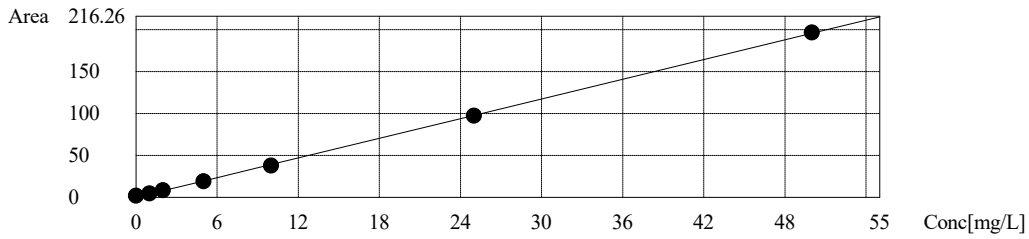
No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.6	50uL	1.000	*******		4/25/2024 8:11:53 PM
2	196.0	50uL	1.000	*******		4/25/2024 8:15:38 PM
3	197.2	50uL	1.000	*******		4/25/2024 8:19:26 PM

Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 196.6



TOC-Control L Report

Slope:	3.917
Intercept	0.000
r^2	0.9998
r	0.9999
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607917
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

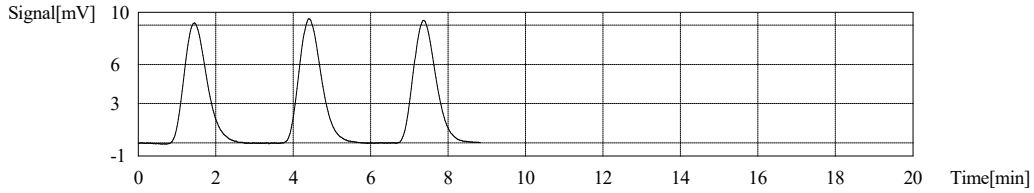
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.687mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.83	9.657mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:24:23 PM
2	38.23	9.759mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:27:56 PM
3	37.78	9.644mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:31:26 PM

Mean Area	37.95
Mean Conc.	9.687mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2979mg/L

1. Det

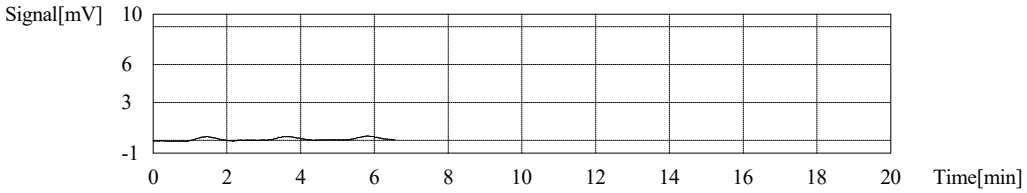
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.387	0.3541mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:45:53 PM
2	1.077	0.2749mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:48:39 PM
3	1.037	0.2647mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:51:24 PM

TOC-Control L Report

2024_04_25_001.tlx

Mean Area	1.167
Mean Conc.	0.2979mg/L



HS24050103 Wetchem TOC_W ICAL - B

ALS WO# HS24050103

TOC-Control L Report

Instr.Information

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

Cal. Curve

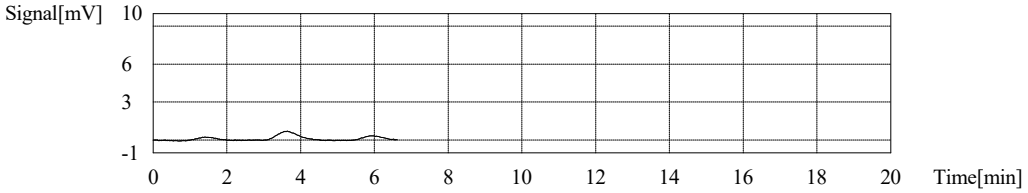
Sample Name:	CAL
Sample ID:	3100608307
Cal. Curve:	04.25.2024.2024_04_25_18_47_38.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1.030	50uL	1.000	*******		4/25/2024 7:02:15 PM
2	2.685	50uL	1.000	*******		4/25/2024 7:05:10 PM
3	1.273	50uL	1.000	*******		4/25/2024 7:07:50 PM

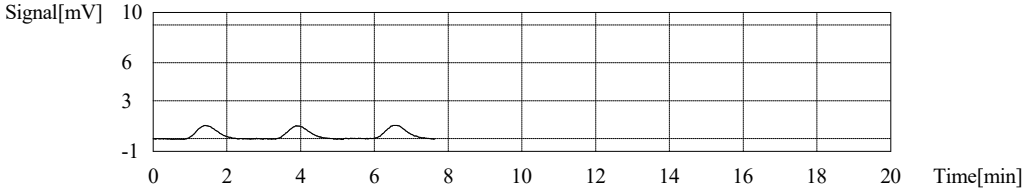
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 1.663



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.254	50uL	1.000	*******		4/25/2024 7:12:34 PM
2	4.362	50uL	1.000	*******		4/25/2024 7:15:50 PM
3	4.292	50uL	1.000	*******		4/25/2024 7:18:54 PM

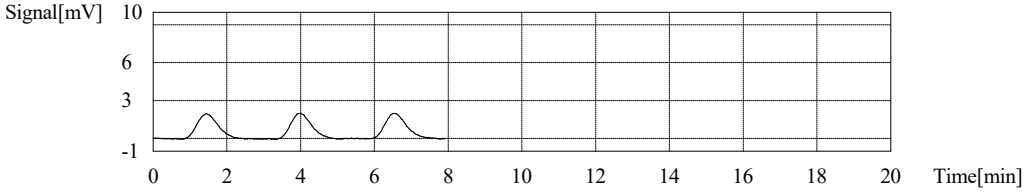
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 4.303



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	7.991	50uL	1.000	*******		4/25/2024 7:23:28 PM
2	8.033	50uL	1.000	*******		4/25/2024 7:26:37 PM
3	8.185	50uL	1.000	*******		4/25/2024 7:29:59 PM

Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 8.070

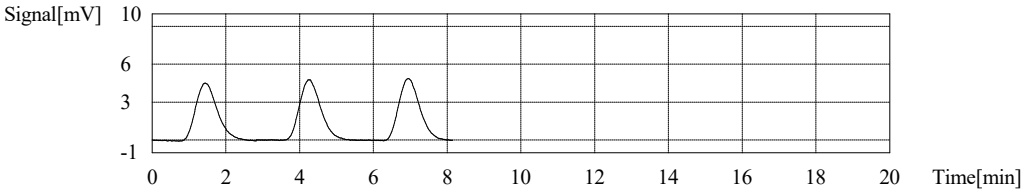


TOC-Control L Report

Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	18.78	50uL	1.000	*******		4/25/2024 7:34:48 PM
2	19.04	50uL	1.000	*******		4/25/2024 7:38:05 PM
3	19.36	50uL	1.000	*******		4/25/2024 7:41:18 PM

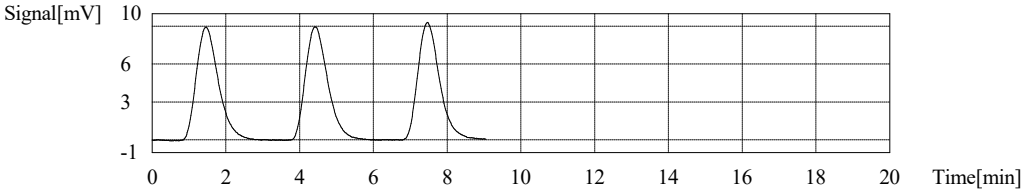
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 19.06



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	37.50	50uL	1.000	*******		4/25/2024 7:46:16 PM
2	37.56	50uL	1.000	*******		4/25/2024 7:49:55 PM
3	37.73	50uL	1.000	*******		4/25/2024 7:53:31 PM

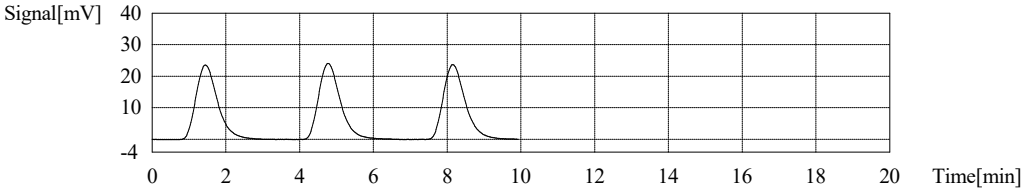
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 37.60



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	96.41	50uL	1.000	*******		4/25/2024 7:58:51 PM
2	97.85	50uL	1.000	*******		4/25/2024 8:02:48 PM
3	97.79	50uL	1.000	*******		4/25/2024 8:06:36 PM

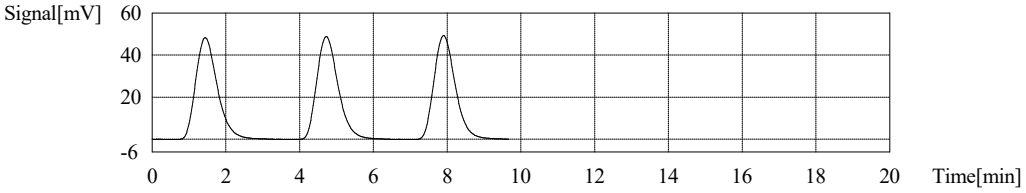
Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 97.35



Conc: 50.00mg/L

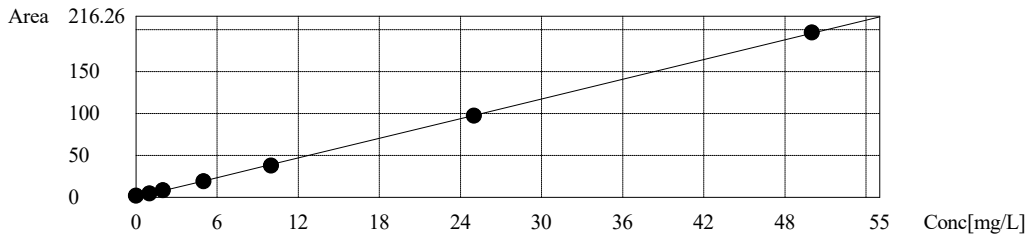
No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	196.6	50uL	1.000	*******		4/25/2024 8:11:53 PM
2	196.0	50uL	1.000	*******		4/25/2024 8:15:38 PM
3	197.2	50uL	1.000	*******		4/25/2024 8:19:26 PM

Acid Add. 1.500%
Sp. Time 540.0sec
Mean Area 196.6



TOC-Control L Report

Slope:	3.917
Intercept	0.000
r^2	0.9998
r	0.9999
RSE(%)	N/A
Zero Shift	Yes



Sample

Sample Name:	ICV
Sample ID:	3100607917
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

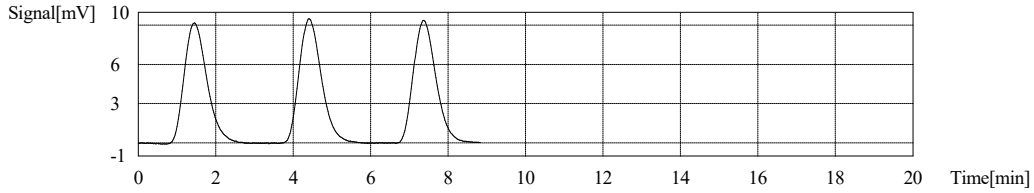
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.687mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.83	9.657mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:24:23 PM
2	38.23	9.759mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:27:56 PM
3	37.78	9.644mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:31:26 PM

Mean Area	37.95
Mean Conc.	9.687mg/L



Sample

Sample Name:	ICB
Sample ID:	
Origin:	04.25.2024.cal
Status	Completed
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2979mg/L

1. Det

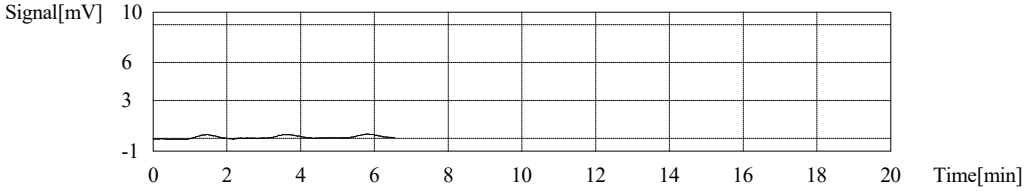
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.387	0.3541mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:45:53 PM
2	1.077	0.2749mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:48:39 PM
3	1.037	0.2647mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	4/25/2024 8:51:24 PM

TOC-Control L Report

2024_04_25_001.tlx

Mean Area	1.167
Mean Conc.	0.2979mg/L



HS24050103 Wetchem TOC_W ICAL TABLE - A

ALS WO# HS24050103

C:\TOC-L\Data\2024_04_25_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Standard	NPOC	CAL	3100608307	04.25.2024.	1.000		
2	Unknown	NPOC	ICV	3100607917	04.25.2024.	1.000	NPOC:9.687mg/L	
3	Unknown	NPOC	ICB		04.25.2024.	1.000	NPOC:0.2979mg/L	
4	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.03mg/L	
5	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.06766mg/	
6	Unknown	NPOC	MBLK-04252024		04.25.2024.	1.000	NPOC:0.1478mg/L	
7	Unknown	NPOC	LCS-04252024	3100607917	04.25.2024.	1.000	NPOC:5.144mg/L	
8	Unknown	NPOC	LCSD-04052024		04.25.2024.	1.000	NPOC:5.082mg/L	
9	Unknown	NPOC	HS24041423-01		04.25.2024.	1.000	NPOC:6.750mg/L	
10	Unknown	NPOC	HS24041423-01MS		04.25.2024.	1.000	NPOC:15.86mg/L	
11	Unknown	NPOC	HS24041558-01		04.25.2024.	1.000	NPOC:0.01517mg/	
12	Unknown	NPOC	HS24040953-01		04.25.2024.	1.000	NPOC:10.42mg/L	
13	Unknown	NPOC	HS24040953-04		04.25.2024.	1.000	NPOC:7.332mg/L	
14	Unknown	NPOC	HS24040954-01		04.25.2024.	1.000	NPOC:4.335mg/L	
15	Unknown	NPOC	HS24040954-02		04.25.2024.	1.000	NPOC:8.586mg/L	
16	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.04mg/L	
17	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09033mg/	
18	Unknown	NPOC	HS24040954-04		04.25.2024.	1.000	NPOC:4.829mg/L	
19	Unknown	NPOC	HS24040954-05		04.25.2024.	1.000	NPOC:0.8624mg/L	
20	Unknown	NPOC	HS24041487-01		04.25.2024.	1.000	NPOC:22.80mg/L	
21	Unknown	NPOC	HS24041698-01DF10		04.25.2024.	1.000	NPOC:0.9665mg/L	
22	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.13mg/L	
23	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09643mg/	
24	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.67mg/L	
25	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1426mg/L	
26	Unknown	NPOC	MBLK-04252024		TOC_W 906	1.000	NPOC:0.1161mg/L	
27	Unknown	NPOC	LCS-04252024	3100607917	TOC_W 906	1.000	NPOC:5.011mg/L	
28	Unknown	NPOC	LCSD-04052024		TOC_W 906	1.000	NPOC:5.047mg/L	
29	Unknown	NPOC	HS24041538-14DF10		TOC_W 906	1.000	NPOC:5.009mg/L	
30	Unknown	NPOC	HS24041538-15DF10		TOC_W 906	1.000	NPOC:3.637mg/L	
31	Unknown	NPOC	HS24041538-16DF10		TOC_W 906	1.000	NPOC:3.855mg/L	
32	Unknown	NPOC	HS24041538-17DF10		TOC_W 906	1.000	NPOC:6.520mg/L	
33	Unknown	NPOC	HS24040801-07		TOC_W 906	1.000	NPOC:4.786mg/L	
34	Unknown	NPOC	HS24040801-07MS		TOC_W 906	1.000	NPOC:12.22mg/L	
35	Unknown	NPOC	HS24040885-01		TOC_W 906	1.000	NPOC:59.40mg/L	
36	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.81mg/L	
37	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2311mg/L	
38	Unknown	NPOC	HS24040885-02		TOC_W 906	1.000	NPOC:40.86mg/L	
39	Unknown	NPOC	HS24040885-03		TOC_W 906	1.000	NPOC:44.30mg/L	
40	Unknown	NPOC	HS24040885-06		TOC_W 906	1.000	NPOC:76.29mg/L	
41	Unknown	NPOC	HS24041341-11DF10		TOC_W 906	1.000	NPOC:9.155mg/L	
42	Unknown	NPOC	HS24041341-12DF10		TOC_W 906	1.000	NPOC:2.129mg/L	
43	Unknown	NPOC	HS24041341-13DF10		TOC_W 906	1.000	NPOC:20.08mg/L	
44	Unknown	NPOC	HS24041341-14DF10		TOC_W 906	1.000	NPOC:2.533mg/L	
45	Unknown	NPOC	HS24041604-08DF10		TOC_W 906	1.000	NPOC:1.071mg/L	
46	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.86mg/L	
47	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1935mg/L	

	Status	Date / Time	Vial
1	Completed	4/25/2024 8:19:26	1, 2, 3, 4, 5,
2	Completed	4/25/2024 8:31:26	8
3	Completed	4/25/2024 8:51:24	1
4	Completed	4/25/2024 9:14:05	9
5	Completed	4/25/2024 9:23:12	10
6	Completed	4/25/2024 9:33:46	11
7	Completed	4/25/2024 9:45:46	12
8	Completed	4/25/2024 9:57:15	13
9	Completed	4/25/2024 10:08:5	14
10	Completed	4/25/2024 10:21:0	15
11	Completed	4/25/2024 10:29:5	16
12	Completed	4/25/2024 10:42:5	17
13	Completed	4/25/2024 10:54:4	18
14	Completed	4/25/2024 11:05:5	19
15	Completed	4/25/2024 11:17:2	20
16	Completed	4/25/2024 11:40:1	9
17	Completed	4/25/2024 11:49:1	10
18	Completed	4/26/2024 12:11:1	21
19	Completed	4/26/2024 12:21:3	22
20	Completed	4/26/2024 12:33:5	23
21	Completed	4/26/2024 12:44:1	24
22	Completed	4/26/2024 1:06:44	9
23	Completed	4/26/2024 1:15:39	10
24	Completed	4/26/2024 1:34:03	25
25	Completed	4/26/2024 1:45:52	26
26	Completed	4/26/2024 2:00:42	11
27	Completed	4/26/2024 2:14:48	12
28	Completed	4/26/2024 2:29:16	13
29	Completed	4/26/2024 2:46:43	27
30	Completed	4/26/2024 3:00:36	28
31	Completed	4/26/2024 3:14:21	29
32	Completed	4/26/2024 3:28:38	30
33	Completed	4/26/2024 3:42:41	31
34	Completed	4/26/2024 3:57:39	32
35	Completed	4/26/2024 4:13:23	33
36	Completed	4/26/2024 4:31:56	25
37	Completed	4/26/2024 4:43:46	26
38	Completed	4/26/2024 5:02:09	34
39	Completed	4/26/2024 5:17:31	35
40	Completed	4/26/2024 5:33:05	36
41	Completed	4/26/2024 5:47:28	37
42	Completed	4/26/2024 6:00:56	38
43	Completed	4/26/2024 6:16:22	39
44	Completed	4/26/2024 6:29:56	40
45	Completed	4/26/2024 6:42:50	41
46	Completed	4/26/2024 7:01:22	25
47	Completed	4/26/2024 7:12:55	26

HS24050103 Wetchem TOC_W ICAL TABLE - B

ALS WO# HS24050103

C:\TOC-L\Data\2024_04_25_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Standard	NPOC	CAL	3100608307	04.25.2024.	1.000		
2	Unknown	NPOC	ICV	3100607917	04.25.2024.	1.000	NPOC:9.687mg/L	
3	Unknown	NPOC	ICB		04.25.2024.	1.000	NPOC:0.2979mg/L	
4	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.03mg/L	
5	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.06766mg/	
6	Unknown	NPOC	MBLK-04252024		04.25.2024.	1.000	NPOC:0.1478mg/L	
7	Unknown	NPOC	LCS-04252024	3100607917	04.25.2024.	1.000	NPOC:5.144mg/L	
8	Unknown	NPOC	LCSD-04052024		04.25.2024.	1.000	NPOC:5.082mg/L	
9	Unknown	NPOC	HS24041423-01		04.25.2024.	1.000	NPOC:6.750mg/L	
10	Unknown	NPOC	HS24041423-01MS		04.25.2024.	1.000	NPOC:15.86mg/L	
11	Unknown	NPOC	HS24041558-01		04.25.2024.	1.000	NPOC:0.01517mg/	
12	Unknown	NPOC	HS24040953-01		04.25.2024.	1.000	NPOC:10.42mg/L	
13	Unknown	NPOC	HS24040953-04		04.25.2024.	1.000	NPOC:7.332mg/L	
14	Unknown	NPOC	HS24040954-01		04.25.2024.	1.000	NPOC:4.335mg/L	
15	Unknown	NPOC	HS24040954-02		04.25.2024.	1.000	NPOC:8.586mg/L	
16	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.04mg/L	
17	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09033mg/	
18	Unknown	NPOC	HS24040954-04		04.25.2024.	1.000	NPOC:4.829mg/L	
19	Unknown	NPOC	HS24040954-05		04.25.2024.	1.000	NPOC:0.8624mg/L	
20	Unknown	NPOC	HS24041487-01		04.25.2024.	1.000	NPOC:22.80mg/L	
21	Unknown	NPOC	HS24041698-01DF10		04.25.2024.	1.000	NPOC:0.9665mg/L	
22	Unknown	NPOC	CCV	325104207	04.25.2024.	1.000	NPOC:25.13mg/L	
23	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09643mg/	
24	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.67mg/L	
25	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1426mg/L	
26	Unknown	NPOC	MBLK-04252024		TOC_W 906	1.000	NPOC:0.1161mg/L	
27	Unknown	NPOC	LCS-04252024	3100607917	TOC_W 906	1.000	NPOC:5.011mg/L	
28	Unknown	NPOC	LCSD-04052024		TOC_W 906	1.000	NPOC:5.047mg/L	
29	Unknown	NPOC	HS24041538-14DF10		TOC_W 906	1.000	NPOC:5.009mg/L	
30	Unknown	NPOC	HS24041538-15DF10		TOC_W 906	1.000	NPOC:3.637mg/L	
31	Unknown	NPOC	HS24041538-16DF10		TOC_W 906	1.000	NPOC:3.855mg/L	
32	Unknown	NPOC	HS24041538-17DF10		TOC_W 906	1.000	NPOC:6.520mg/L	
33	Unknown	NPOC	HS24040801-07		TOC_W 906	1.000	NPOC:4.786mg/L	
34	Unknown	NPOC	HS24040801-07MS		TOC_W 906	1.000	NPOC:12.22mg/L	
35	Unknown	NPOC	HS24040885-01		TOC_W 906	1.000	NPOC:59.40mg/L	
36	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.81mg/L	
37	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.2311mg/L	
38	Unknown	NPOC	HS24040885-02		TOC_W 906	1.000	NPOC:40.86mg/L	
39	Unknown	NPOC	HS24040885-03		TOC_W 906	1.000	NPOC:44.30mg/L	
40	Unknown	NPOC	HS24040885-06		TOC_W 906	1.000	NPOC:76.29mg/L	
41	Unknown	NPOC	HS24041341-11DF10		TOC_W 906	1.000	NPOC:9.155mg/L	
42	Unknown	NPOC	HS24041341-12DF10		TOC_W 906	1.000	NPOC:2.129mg/L	
43	Unknown	NPOC	HS24041341-13DF10		TOC_W 906	1.000	NPOC:20.08mg/L	
44	Unknown	NPOC	HS24041341-14DF10		TOC_W 906	1.000	NPOC:2.533mg/L	
45	Unknown	NPOC	HS24041604-08DF10		TOC_W 906	1.000	NPOC:1.071mg/L	
46	Unknown	NPOC	CCV	325104207	TOC_W 906	1.000	NPOC:24.86mg/L	
47	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1935mg/L	

C:\TOC-L\Data\2024_04_25_001.tlx

	Status	Date / Time	Vial
1	Completed	4/25/2024 8:19:26	1, 2, 3, 4, 5,
2	Completed	4/25/2024 8:31:26	8
3	Completed	4/25/2024 8:51:24	1
4	Completed	4/25/2024 9:14:05	9
5	Completed	4/25/2024 9:23:12	10
6	Completed	4/25/2024 9:33:46	11
7	Completed	4/25/2024 9:45:46	12
8	Completed	4/25/2024 9:57:15	13
9	Completed	4/25/2024 10:08:5	14
10	Completed	4/25/2024 10:21:0	15
11	Completed	4/25/2024 10:29:5	16
12	Completed	4/25/2024 10:42:5	17
13	Completed	4/25/2024 10:54:4	18
14	Completed	4/25/2024 11:05:5	19
15	Completed	4/25/2024 11:17:2	20
16	Completed	4/25/2024 11:40:1	9
17	Completed	4/25/2024 11:49:1	10
18	Completed	4/26/2024 12:11:1	21
19	Completed	4/26/2024 12:21:3	22
20	Completed	4/26/2024 12:33:5	23
21	Completed	4/26/2024 12:44:1	24
22	Completed	4/26/2024 1:06:44	9
23	Completed	4/26/2024 1:15:39	10
24	Completed	4/26/2024 1:34:03	25
25	Completed	4/26/2024 1:45:52	26
26	Completed	4/26/2024 2:00:42	11
27	Completed	4/26/2024 2:14:48	12
28	Completed	4/26/2024 2:29:16	13
29	Completed	4/26/2024 2:46:43	27
30	Completed	4/26/2024 3:00:36	28
31	Completed	4/26/2024 3:14:21	29
32	Completed	4/26/2024 3:28:38	30
33	Completed	4/26/2024 3:42:41	31
34	Completed	4/26/2024 3:57:39	32
35	Completed	4/26/2024 4:13:23	33
36	Completed	4/26/2024 4:31:56	25
37	Completed	4/26/2024 4:43:46	26
38	Completed	4/26/2024 5:02:09	34
39	Completed	4/26/2024 5:17:31	35
40	Completed	4/26/2024 5:33:05	36
41	Completed	4/26/2024 5:47:28	37
42	Completed	4/26/2024 6:00:56	38
43	Completed	4/26/2024 6:16:22	39
44	Completed	4/26/2024 6:29:56	40
45	Completed	4/26/2024 6:42:50	41
46	Completed	4/26/2024 7:01:22	25
47	Completed	4/26/2024 7:12:55	26

HS24050103 Wetchem TOC_W INJECT - A

ALS WO# HS24050103

TOC-Control L Report

2024_05_08_002.tlx

Instr.Information

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

Sample

Sample Name: CCV
Sample ID: 325102704
Origin: 04.25.2024.cal
Status: Completed
Chk. Result

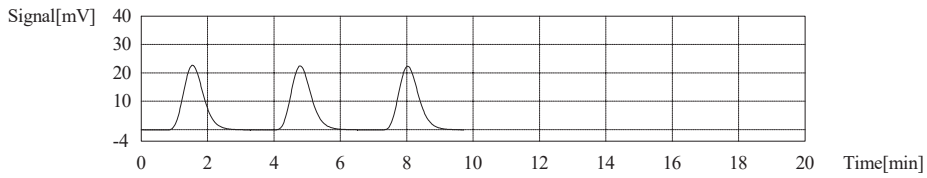
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.38mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	96.39	24.61mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 7:11:17 PM
2	95.55	24.39mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 7:15:06 PM
3	94.59	24.15mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 7:18:53 PM

Mean Area: 95.51
Mean Conc.: 24.38mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status: Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1205mg/L

1. Det

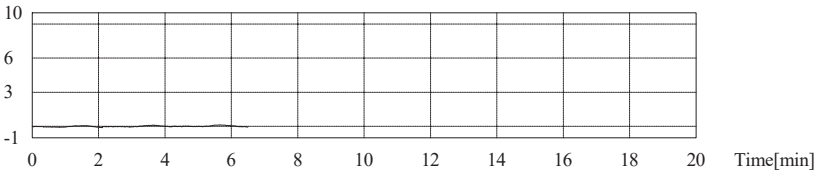
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4454	0.1137mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 7:23:00 PM
2	0.4585	0.1170mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 7:25:41 PM
3	0.5126	0.1309mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 7:28:33 PM

TOC-Control L Report

2024_05_08_002.tlx

Mean Area 0.4722
Mean Conc. 0.1205mg/L



Sample

Sample Name: MBLK-05082024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

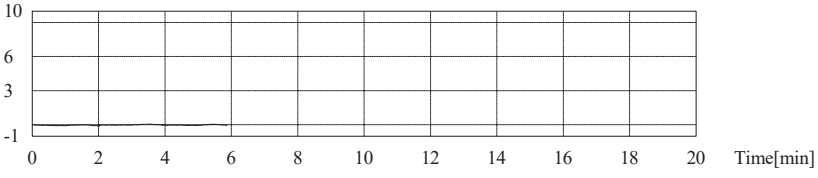
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04749mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3445	0.08794mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 7:32:59 PM
2	0.000	0.000mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 7:35:28 PM
3	0.2136	0.05453mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 7:38:00 PM

Mean Area 0.1860
Mean Conc. 0.04749mg/L



Sample

Sample Name: LCS-05082024
Sample ID: 3100607917
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.642mg/L

1. Det

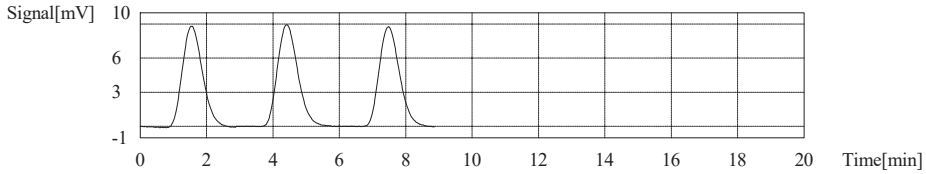
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	37.57	9.591mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 7:43:53 PM
2	38.36	9.792mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 7:47:32 PM
3	37.38	9.542mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 7:51:02 PM

TOC-Control L Report

2024_05_08_002.tlx

Mean Area 37.77
Mean Conc. 9.642mg/L



Sample

Sample Name: LCSD-05082024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

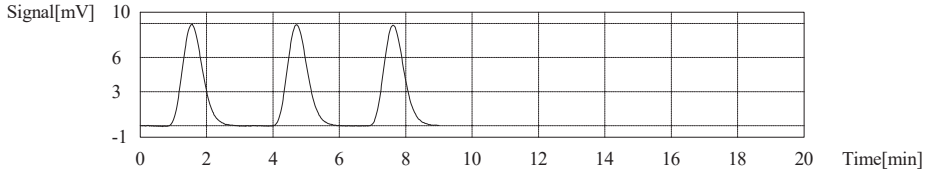
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.609mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.05	9.713mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 7:56:12 PM
2	37.42	9.552mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 7:59:41 PM
3	37.46	9.562mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 8:03:12 PM

Mean Area 37.64
Mean Conc. 9.609mg/L



Sample

Sample Name: HS24041653-03MS
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.914mg/L

1. Det

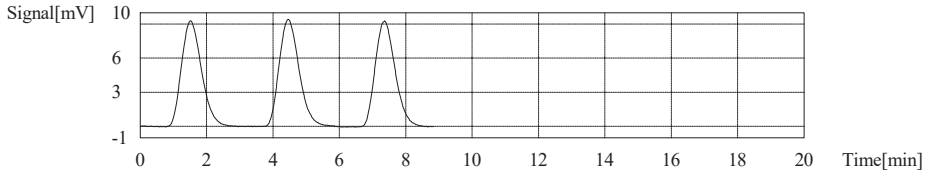
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.92	9.935mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 8:18:39 PM
2	38.97	9.948mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 8:22:08 PM
3	38.62	9.859mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 8:25:42 PM

TOC-Control L Report

2024_05_08_002.tlx

Mean Area 38.84
Mean Conc. 9.914mg/L



Sample

Sample Name: CCV
Sample ID: 325102704
Origin: 04.25.2024.cal
Status Completed
Chk. Result

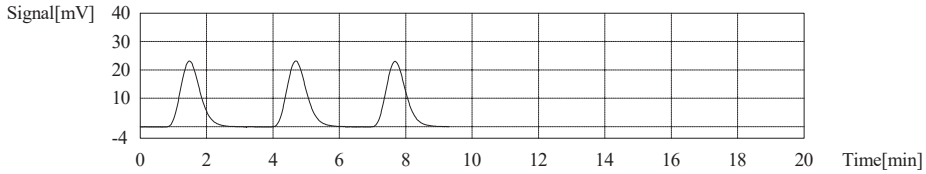
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.37mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	95.66	24.42mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 9:53:09 PM
2	95.50	24.38mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 9:56:43 PM
3	95.21	24.30mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 10:00:25 PM

Mean Area 95.46
Mean Conc. 24.37mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03008mg/L

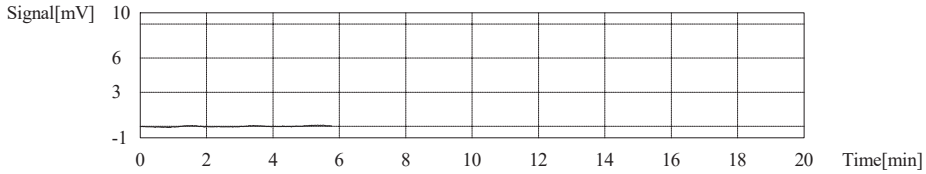
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.3535	0.09024mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 10:04:23 PM
2	0.000	0.000mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 10:06:51 PM
3	0.000	0.000mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 10:09:19 PM

TOC-Control L Report

Mean Area 0.1178
Mean Conc. 0.03008mg/L



Sample

Sample Name: HS24050103-01DF10
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

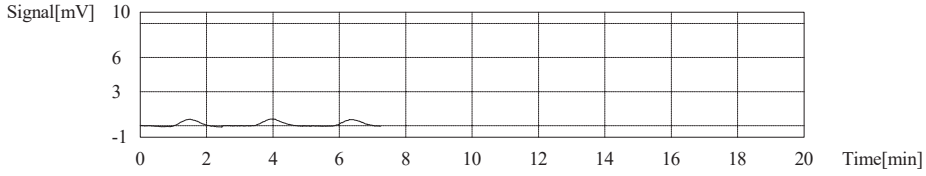
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6192mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.604	0.6647mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 10:35:42 PM
2	2.405	0.6139mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 10:38:42 PM
3	2.268	0.5790mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 10:41:37 PM

Mean Area 2.426
Mean Conc. 0.6192mg/L



Sample

Sample Name: CCV
Sample ID: 325102704
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.72mg/L

1. Det

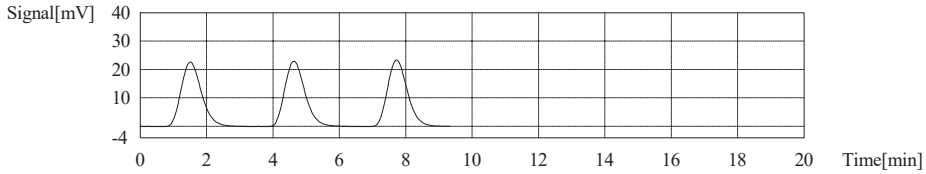
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	96.64	24.67mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 11:39:48 PM
2	96.56	24.65mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 11:43:27 PM
3	97.26	24.83mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 11:47:09 PM

TOC-Control L Report

2024_05_08_002.tlx

Mean Area 96.82
Mean Conc. 24.72mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

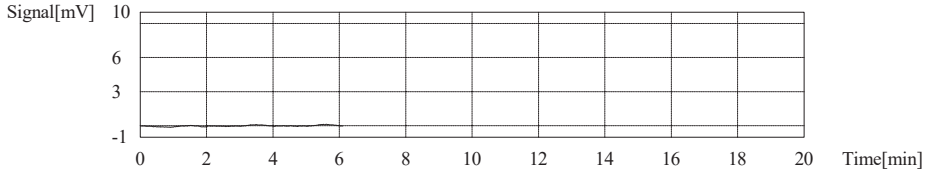
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.09766mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4011	0.1024mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 11:51:10 PM
2	0.3746	0.09562mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 11:53:47 PM
3	0.3720	0.09496mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/8/2024 11:56:23 PM

Mean Area 0.3826
Mean Conc. 0.09766mg/L



HS24050103 Wetchem TOC_W INJECT - B

ALS WO# HS24050103

TOC-Control L Report

2024_05_09_001.tlx

Instr.Information

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

Sample

Sample Name: CCV
Sample ID: 325102704
Origin: 04.25.2024.cal
Status: Completed
Chk. Result:

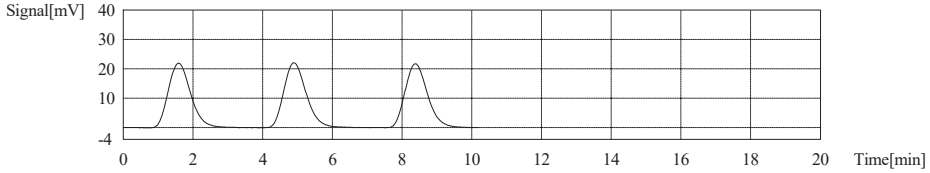
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.91mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	97.39	24.86mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 6:46:10 PM
2	98.56	25.16mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 6:50:13 PM
3	96.83	24.72mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 6:54:10 PM

Mean Area: 97.59
Mean Conc.: 24.91mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status: Completed
Chk. Result:

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1569mg/L

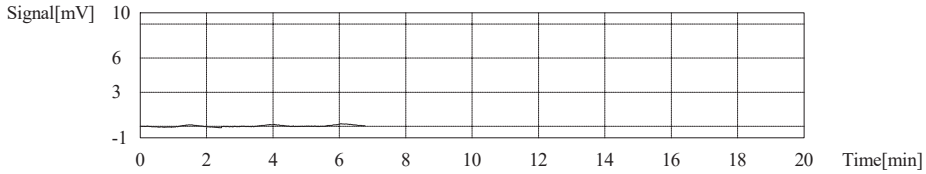
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6612	0.1688mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 6:58:38 PM
2	0.5817	0.1485mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 7:01:20 PM
3	0.6005	0.1533mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 7:04:07 PM

TOC-Control L Report

Mean Area 0.6145
Mean Conc. 0.1569mg/L



Sample

Sample Name: MBLK-05092024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

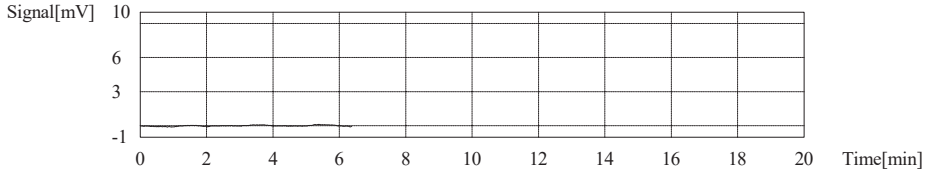
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08548mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4142	0.1057mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 7:08:18 PM
2	0.000	0.000mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 7:10:47 PM
3	0.5904	0.1507mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 7:13:46 PM

Mean Area 0.3349
Mean Conc. 0.08548mg/L



Sample

Sample Name: LCS-05092024
Sample ID: 3100607917
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.676mg/L

1. Det

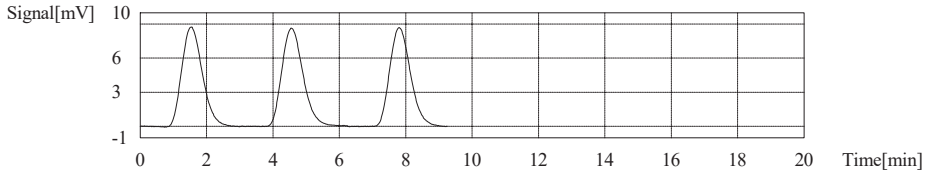
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.05	9.713mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 7:19:19 PM
2	37.98	9.695mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 7:23:08 PM
3	37.68	9.619mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 7:26:43 PM

TOC-Control L Report

2024_05_09_001.tlx

Mean Area 37.90
Mean Conc. 9.676mg/L



Sample

Sample Name: LCSD-05092024
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

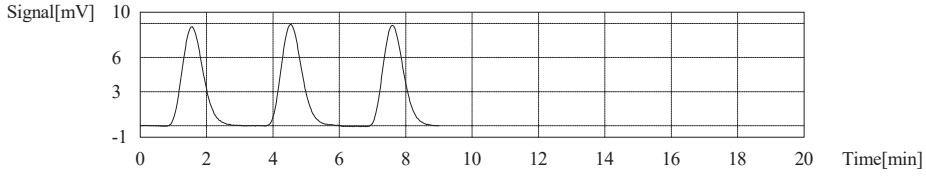
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.790mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.26	9.767mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 7:31:43 PM
2	38.40	9.802mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 7:35:22 PM
3	38.40	9.802mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 7:38:53 PM

Mean Area 38.35
Mean Conc. 9.790mg/L



Sample

Sample Name: HS24050103-01
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.391mg/L

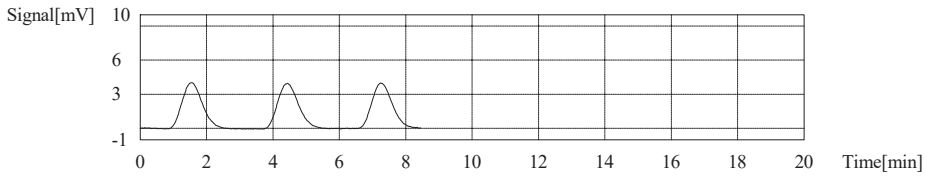
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.24	4.401mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 7:43:46 PM
2	17.36	4.431mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 7:47:11 PM
3	17.00	4.340mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 7:50:30 PM

TOC-Control L Report

Mean Area 17.20
Mean Conc. 4.391mg/L



Sample

Sample Name: HS24050252-01MS
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

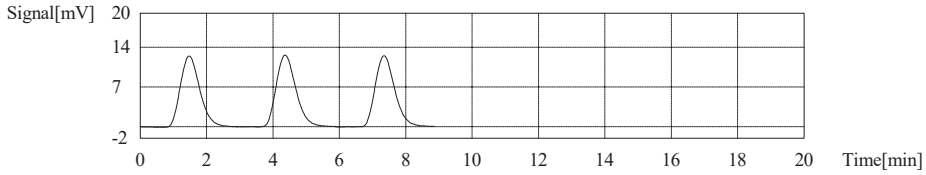
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:13.00mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	50.60	12.92mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 8:52:56 PM
2	51.65	13.18mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 8:56:30 PM
3	50.51	12.89mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 9:00:04 PM

Mean Area 50.92
Mean Conc. 13.00mg/L



Sample

Sample Name: CCV
Sample ID: 325102704
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.89mg/L

1. Det

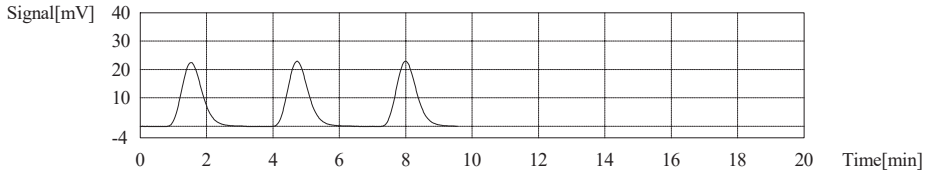
Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	96.99	24.76mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 9:35:09 PM
2	97.84	24.98mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 9:38:59 PM
3	97.71	24.94mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 9:42:40 PM

TOC-Control L Report

2024_05_09_001.tlx

Mean Area 97.51
Mean Conc. 24.89mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

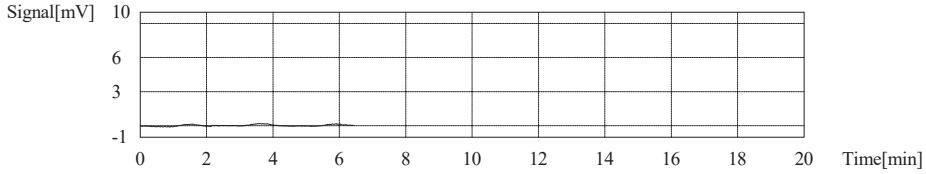
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1476mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7342	0.1874mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 9:46:48 PM
2	0.5646	0.1441mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 9:49:38 PM
3	0.4362	0.1113mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 9:52:15 PM

Mean Area 0.5783
Mean Conc. 0.1476mg/L



Sample

Sample Name: CCV
Sample ID: 325102704
Origin: 04.25.2024.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.73mg/L

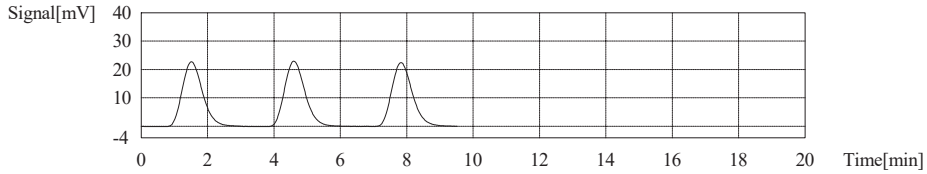
1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	96.38	24.60mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 11:26:06 PM
2	97.95	25.00mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 11:29:54 PM
3	96.33	24.59mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 11:33:43 PM

TOC-Control L Report

Mean Area 96.89
Mean Conc. 24.73mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: 04.25.2024.cal
Status Completed
Chk. Result

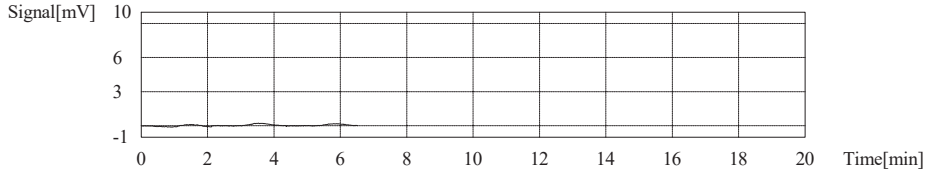
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1676mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6992	0.1785mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 11:37:50 PM
2	0.6930	0.1769mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 11:40:40 PM
3	0.5780	0.1475mg/L	50uL	1.000		04.25.2024.2024_04_25_18_47_38.cal	5/9/2024 11:43:24 PM

Mean Area 0.6567
Mean Conc. 0.1676mg/L



HS24050103 Wetchem TOC_W INJECT
TABLE - A

ALS WO# HS24050103

C:\TOC-L\Data\2024_05_08_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.38mg/L	
2	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1205mg/L	
3	Unknown	NPOC	MBLK-05082024		04.25.2024.	1.000	NPOC:0.04749mg/	
4	Unknown	NPOC	LCS-05082024	3100607917	04.25.2024.	1.000	NPOC:9.642mg/L	
5	Unknown	NPOC	LCSD-05082024		04.25.2024.	1.000	NPOC:9.609mg/L	
6	Unknown	NPOC	HS24041653-03		04.25.2024.	1.000	NPOC:0.5775mg/L	
7	Unknown	NPOC	HS24041653-03MS		04.25.2024.	1.000	NPOC:9.914mg/L	
8	Unknown	NPOC	HS24041653-04		04.25.2024.	1.000	NPOC:0.8108mg/L	
9	Unknown	NPOC	HS24041653-07		04.25.2024.	1.000	NPOC:0.6258mg/L	
10	Unknown	NPOC	HS24041653-08		04.25.2024.	1.000	NPOC:0.7694mg/L	
11	Unknown	NPOC	HS24041653-09		04.25.2024.	1.000	NPOC:1.118mg/L	
12	Unknown	NPOC	HS24041653-10		04.25.2024.	1.000	NPOC:1.402mg/L	
13	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.37mg/L	
14	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.03008mg/	
15	Unknown	NPOC	HS24041653-11		04.25.2024.	1.000	NPOC:6.569mg/L	
16	Unknown	NPOC	HS24050103-01DF10		04.25.2024.	1.000	NPOC:0.6192mg/L	
17	Unknown	NPOC	HS24050041-02DF10		04.25.2024.	1.000	NPOC:2.489mg/L	
18	Unknown	NPOC	HS24050144-01		04.25.2024.	1.000	NPOC:10.86mg/L	
19	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.72mg/L	
20	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.09766mg/	
21	Unknown	NPOC	MBLK-05082024		04.25.2024.	1.000	NPOC:0.04028mg/	
22	Unknown	NPOC	LCS-05082024	3100607917	04.25.2024.	1.000	NPOC:9.654mg/L	
23	Unknown	NPOC	LCSD-05082024		04.25.2024.	1.000	NPOC:9.694mg/L	
24	Unknown	NPOC	HS24041730-03		04.25.2024.	1.000	NPOC:3.647mg/L	
25	Unknown	NPOC	HS24041730-04		04.25.2024.	1.000	NPOC:2.734mg/L	
26	Unknown	NPOC	HS24041730-04MS		04.25.2024.	1.000	NPOC:11.28mg/L	
27	Unknown	NPOC	HS24041730-05		04.25.2024.	1.000	NPOC:3.158mg/L	
28	Unknown	NPOC	HS24041730-06		04.25.2024.	1.000	NPOC:2.552mg/L	
29	Unknown	NPOC	HS24042003-03		04.25.2024.	1.000	NPOC:6.047mg/L	
30	Unknown	NPOC	HS24042003-04		04.25.2024.	1.000	NPOC:6.168mg/L	
31	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.67mg/L	
32	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.03986mg/	
33	Unknown	NPOC	CCV	325102704	TOC_W 906	1.000	NPOC:24.05mg/L	
34	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.07684mg/	
35	Unknown	NPOC	MBLK-05082024		TOC_W 906	1.000	NPOC:0.02682mg/	
36	Unknown	NPOC	LCS-05082024	3100607917	TOC_W 906	1.000	NPOC:9.430mg/L	
37	Unknown	NPOC	LCSD-05082024		TOC_W 906	1.000	NPOC:9.419mg/L	
38	Unknown	NPOC	HS24041713-02DF5		TOC_W 906	1.000	NPOC:1.915mg/L	
39	Unknown	NPOC	HS24041713-03DF5		TOC_W 906	1.000	NPOC:5.001mg/L	
40	Unknown	NPOC	HS24041713-05DF5		TOC_W 906	1.000	NPOC:4.175mg/L	
41	Unknown	NPOC	HS24041713-07DF5		TOC_W 906	1.000	NPOC:4.486mg/L	
42	Unknown	NPOC	HS24041713-09DF5		TOC_W 906	1.000	NPOC:2.465mg/L	
43	Unknown	NPOC	HS24041713-10DF5		TOC_W 906	1.000	NPOC:3.667mg/L	
44	Unknown	NPOC	HS24041713-11DF5		TOC_W 906	1.000	NPOC:4.957mg/L	
45	Unknown	NPOC	CCV	325102704	TOC_W 906	1.000	NPOC:23.94mg/L	
46	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.08945mg/	
47	Unknown	NPOC	HS24041713-12DF5		TOC_W 906	1.000	NPOC:4.783mg/L	
48	Unknown	NPOC	HS24041780-01DF5		TOC_W 906	1.000	NPOC:1.635mg/L	
49	Unknown	NPOC	HS24041780-02DF5		TOC_W 906	1.000	NPOC:2.410mg/L	
50	Unknown	NPOC	HS24041780-03DF5		TOC_W 906	1.000	NPOC:4.305mg/L	
51	Unknown	NPOC	HS24041780-04DF5		TOC_W 906	1.000	NPOC:2.799mg/L	
52	Unknown	NPOC	HS24041780-05DF5		TOC_W 906	1.000	NPOC:3.423mg/L	
53	Unknown	NPOC	HS24041780-05MSDF5		TOC_W 906	1.000	NPOC:10.70mg/L	

	Status	Date / Time	Vial
1	Completed	5/8/2024 7:18:53 PM	1
2	Completed	5/8/2024 7:28:33 PM	2
3	Completed	5/8/2024 7:38:00 PM	3
4	Completed	5/8/2024 7:51:02 PM	4
5	Completed	5/8/2024 8:03:12 PM	5
6	Completed	5/8/2024 8:13:42 PM	6
7	Completed	5/8/2024 8:25:42 PM	7
8	Completed	5/8/2024 8:36:15 PM	8
9	Completed	5/8/2024 8:46:40 PM	9
10	Completed	5/8/2024 8:57:04 PM	10
11	Completed	5/8/2024 9:08:00 PM	11
12	Completed	5/8/2024 9:18:34 PM	12
13	Completed	5/8/2024 10:00:25 PM	1
14	Completed	5/8/2024 10:09:19 PM	2
15	Completed	5/8/2024 10:31:14 PM	13
16	Completed	5/8/2024 10:41:37 PM	14
17	Completed	5/8/2024 10:52:58 PM	15
18	Completed	5/8/2024 11:05:06 PM	16
19	Completed	5/8/2024 11:47:09 PM	1
20	Completed	5/8/2024 11:56:23 PM	2
21	Completed	5/9/2024 12:06:27 AM	3
22	Completed	5/9/2024 12:19:04 AM	4
23	Completed	5/9/2024 12:30:54 AM	5
24	Completed	5/9/2024 12:52:44 AM	17
25	Completed	5/9/2024 1:04:06 AM	18
26	Completed	5/9/2024 1:16:24 AM	19
27	Completed	5/9/2024 1:27:47 AM	20
28	Completed	5/9/2024 1:38:52 AM	21
29	Completed	5/9/2024 1:50:46 AM	22
30	Completed	5/9/2024 2:02:32 AM	23
31	Completed	5/9/2024 2:45:15 AM	24
32	Completed	5/9/2024 2:54:25 AM	25
33	Completed	5/9/2024 3:13:15 AM	24
34	Completed	5/9/2024 3:24:23 AM	25
35	Completed	5/9/2024 3:38:21 AM	3
36	Completed	5/9/2024 3:53:16 AM	4
37	Completed	5/9/2024 4:08:28 AM	5
38	Completed	5/9/2024 4:25:04 AM	26
39	Completed	5/9/2024 4:42:44 AM	27
40	Completed	5/9/2024 4:56:36 AM	28
41	Completed	5/9/2024 5:10:30 AM	29
42	Completed	5/9/2024 5:24:07 AM	30
43	Completed	5/9/2024 5:38:06 AM	31
44	Completed	5/9/2024 5:52:01 AM	32
45	Completed	5/9/2024 6:25:29 AM	24
46	Completed	5/9/2024 6:36:37 AM	25
47	Completed	5/9/2024 6:54:12 AM	33
48	Completed	5/9/2024 7:07:44 AM	34
49	Completed	5/9/2024 7:21:47 AM	35
50	Completed	5/9/2024 7:35:52 AM	36
51	Completed	5/9/2024 7:49:30 AM	37
52	Completed	5/9/2024 8:03:07 AM	38
53	Completed	5/9/2024 8:17:37 AM	39

C:\TOC-L\Data\2024_05_08_002.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
54	Unknown	NPOC	HS24041780-07DF5		TOC_W 906	1.000	NPOC:3.855mg/L	
55	Unknown	NPOC	HS24041780-08DF5		TOC_W 906	1.000	NPOC:3.731mg/L	
56	Unknown	NPOC	HS24041780-09DF5		TOC_W 906	1.000	NPOC:4.580mg/L	
57	Unknown	NPOC	CCV	325102704	TOC_W 906	1.000	NPOC:24.00mg/L	
58	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1315mg/L	
59	Unknown	NPOC	HS24041780-10DF5		TOC_W 906	1.000	NPOC:3.415mg/L	
60	Unknown	NPOC	HS24041780-11DF5		TOC_W 906	1.000	NPOC:3.170mg/L	
61	Unknown	NPOC	HS24041780-12DF5		TOC_W 906	1.000	NPOC:3.703mg/L	
62	Unknown	NPOC	HS24041780-13DF5		TOC_W 906	1.000	NPOC:3.479mg/L	
63	Unknown	NPOC	CCV	325102704	TOC_W 906	1.000	NPOC:23.87mg/L	
64	Unknown	NPOC	CCB		TOC_W 906	1.000	NPOC:0.1176mg/L	

	Status	Date / Time	Vial
54	Completed	5/9/2024 8:31:26 AM	40
55	Completed	5/9/2024 8:45:13 AM	41
56	Completed	5/9/2024 8:59:06 AM	42
57	Completed	5/9/2024 9:32:36 AM	43
58	Completed	5/9/2024 9:44:06 AM	44
59	Completed	5/9/2024 9:57:47 AM	45
60	Completed	5/9/2024 10:11:19 AM	46
61	Completed	5/9/2024 10:28:43 AM	47
62	Completed	5/9/2024 10:42:42 AM	48
63	Completed	5/9/2024 11:20:16 AM	43
64	Completed	5/9/2024 11:31:58 AM	44

HS24050103 Wetchem TOC_W INJECT TABLE - B

ALS WO# HS24050103

C:\TOC-L\Data\2024_05_09_001.tlx

	Type	Analysis	Sample Name	Sample ID	Origin	Manual Diluti	Result	Notes
1	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.91mg/L	
2	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1569mg/L	
3	Unknown	NPOC	MBLK-05092024		04.25.2024.	1.000	NPOC:0.08548mg/	
4	Unknown	NPOC	LCS-05092024	3100607917	04.25.2024.	1.000	NPOC:9.676mg/L	
5	Unknown	NPOC	LCSD-05092024		04.25.2024.	1.000	NPOC:9.790mg/L	
6	Unknown	NPOC	HS24050103-01		04.25.2024.	1.000	NPOC:4.391mg/L	
7	Unknown	NPOC	HS24041809-01		04.25.2024.	1.000	NPOC:1.872mg/L	
8	Unknown	NPOC	HS24041809-02		04.25.2024.	1.000	NPOC:2.154mg/L	
9	Unknown	NPOC	HS24041809-03		04.25.2024.	1.000	NPOC:1.825mg/L	
10	Unknown	NPOC	HS24041809-04		04.25.2024.	1.000	NPOC:43.59mg/L	
11	Unknown	NPOC	HS24050252-01		04.25.2024.	1.000	NPOC:3.544mg/L	
12	Unknown	NPOC	HS24050252-01MS		04.25.2024.	1.000	NPOC:13.00mg/L	
13	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.89mg/L	
14	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1476mg/L	
15	Unknown	NPOC	HS24050240-01		04.25.2024.	1.000	NPOC:7.108mg/L	
16	Unknown	NPOC	HS24041798-02		04.25.2024.	1.000	NPOC:12.41mg/L	
17	Unknown	NPOC	HS24050241-01		04.25.2024.	1.000	NPOC:9.181mg/L	
18	Unknown	NPOC	HS24050250-02		04.25.2024.	1.000	NPOC:20.56mg/L	
19	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.73mg/L	
20	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1676mg/L	
21	Unknown	NPOC	MBLK-05092024		04.25.2024.	1.000	NPOC:0.02781mg/	
22	Unknown	NPOC	LCS-05092024	3100607917	04.25.2024.	1.000	NPOC:9.624mg/L	
23	Unknown	NPOC	LCSD-05092024		04.25.2024.	1.000	NPOC:9.716mg/L	
24	Unknown	NPOC	HS24050306-01		04.25.2024.	1.000	NPOC:9.008mg/L	
25	Unknown	NPOC	HS24050306-01MS		04.25.2024.	1.000	NPOC:19.16mg/L	
26	Unknown	NPOC	HS24050381-01		04.25.2024.	1.000	NPOC:0.1584mg/L	
27	Unknown	NPOC	HS24050381-04		04.25.2024.	1.000	NPOC:0.09401mg/	
28	Unknown	NPOC	CCV	325102704	04.25.2024.	1.000	NPOC:24.87mg/L	
29	Unknown	NPOC	CCB		04.25.2024.	1.000	NPOC:0.1373mg/L	

	Status	Date / Time	Vial
1	Completed	5/9/2024 6:54:10 P	1
2	Completed	5/9/2024 7:04:07 P	2
3	Completed	5/9/2024 7:13:46 P	3
4	Completed	5/9/2024 7:26:43 P	4
5	Completed	5/9/2024 7:38:53 P	5
6	Completed	5/9/2024 7:50:30 P	6
7	Completed	5/9/2024 8:01:49 P	7
8	Completed	5/9/2024 8:13:07 P	8
9	Completed	5/9/2024 8:24:03 P	9
10	Completed	5/9/2024 8:36:23 P	10
11	Completed	5/9/2024 8:48:02 P	11
12	Completed	5/9/2024 9:00:04 P	12
13	Completed	5/9/2024 9:42:40 P	1
14	Completed	5/9/2024 9:52:15 P	2
15	Completed	5/9/2024 10:14:17	13
16	Completed	5/9/2024 10:26:34	14
17	Completed	5/9/2024 10:38:52	15
18	Completed	5/9/2024 10:51:17	16
19	Completed	5/9/2024 11:33:43	1
20	Completed	5/9/2024 11:43:24	2
21	Completed	5/9/2024 11:52:47	3
22	Completed	5/10/2024 12:05:5	4
23	Completed	5/10/2024 12:17:4	5
24	Completed	5/10/2024 12:40:0	17
25	Completed	5/10/2024 12:52:3	18
26	Completed	5/10/2024 1:02:09	19
27	Completed	5/10/2024 1:11:57	20
28	Completed	5/10/2024 1:54:51	21
29	Completed	5/10/2024 2:04:13	22

HS24050103 E2400432 Perch Level IV Report

ALS WO# HS24050103

May 03, 2024 Service Request No:E2400432

Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099

Laboratory Results for: HS24050103

Dear Luis,

Enclosed are the results of the sample(s) submitted to our laboratory May 02, 2024
For your reference, these analyses have been assigned our service request number **E2400432.**

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 2190. You may also contact me via email at hussam.kelany@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

H Kelany

Hussam Kelany
Project Manager

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

Certificate of Analysis

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
www.alsglobal.com

Client:	ALS Environmental - US	**Service Request No.:**	E2400432
Project:	HS24050103	**Date Received:**	05/02/24
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 05/02/24.

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:

EQ2400214: 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:**E2400432
Project: HS24050103

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2400432-001	LH18/24-SP650_050124_BIX	5/1/2024	1300
E2400432-002	LH18/24-SP650_050124_AIX	5/1/2024	1300

Service Request Summary

Folder #: **E2400432**
Client Name: ALS Environmental - US
Project Name: HS24050103
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/02/24
Internal Due Date: 5/3/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4A
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	Semivoa GCMS ClO4 DOD/6850
E2400432-001	LH18/24-SP650_050124_BIX	Water	05/01/24 1300	**IV**
E2400432-002	LH18/24-SP650_050124_AIX	Water	05/01/24 1300	**IV**

Service Request Summary

Folder #: **E2400432**
Client Name: ALS Environmental - US
Project Name: HS24050103
Project Number:

Report To: Luis Aguilar
ALS Environmental - US
10450 Stancliff Rd Suite 210
Houston, TX 77099
USA
Phone Number:
Cell Number:
Fax Number:
E-mail: luis.aguilar@alsglobal.com

Project Chemist: Hussam Kelany
Originating Lab: HOUSTON
Logged By: JCORONADO2
Date Received: 05/02/24
Internal Due Date: 5/3/2024
QAP: LAB QAP
Qualifier Set: Lab Standard
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number:
EDD: No EDD Specified

2 120 mL-Plastic Bottle Natural WM Unpreserved
Location: EHRMS-WIC 4A
Pressure Gas:

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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State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793_2024	5/27/2024
Department of Defense	L24-240	4/30/2026
Department of Defense	L23-358	5/31/2025
Florida Department of Health	E87611-38	6/30/2024
Illinois Environmental Protection Agency	2000322023-11	6/30/2024
Kansas Department of Health and Environment	E-10352 2023-2024	7/31/2024
Louisiana Department of Environmental Quality	03087-2023	6/30/2024
Louisiana Department of Health and Hospitals	LA028-2024	12/31/2024
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343-2023	6/30/2024
Minnesota Department of Health	2645386	12/31/2024
Nevada Division of Environmental Protection	TX026932024-1	7/31/2024
New Hampshire Environmental Laboratory Accreditation Program	209424-A	4/24/2025
New Jersey Department of Environmental Protection	TX008-2024	6/30/2024
Oklahoma Department of Environmental Quality	2023-140	8/31/2024
Oregon Environmental Laboratory Accreditation Program	TX200002-011	5/15/2024
Pennsylvania Department of Environmental Protection	68-03441-017	6/30/2024
Texas Commision on Environmental Quality	TX-C24-00130	4/30/2025
Utah Department of Health Environmental Laboratory Certification	TX026932023-14	7/31/2024
Washington Department of Ecology	C819-23	11/14/2024

Chain of Custody

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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E2400432 5
ALS Environmental - US
HS24050103

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Subcontract Chain of Custody

SAMPLING STATE: **Dept of Defense** **COC ID:** **25517**

SUBCONTRACT TO:

ALS Environmental
10450 Stancliff RoadSuite 210
Houston, TX 77084

Phone: +1 281 530 5656

CUSTOMER INFORMATION:

Company:	ALS Houston
Contact:	Luis.Aguilar
Address:	10450 Stancliff Rd, Ste 210
Phone:	+1 281 530 5656
Email:	luis.aguilar@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:	HS24050103
TSR:	Houston House Acct

	LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	COLLECT DATE
	ANALYSIS REQUESTED			DUE DATE
1.	**HS24050103-02**	**LH18/24-SP650_050124_BIX**	**Water**	**01 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			03 May 2024
2.	**HS24050103-03**	**LH18/24-SP650_050124_AIX**	**Water**	**01 May 2024 13:00**
	6850-Perch. DOD Level II & Level IV in separate pdf			03 May 2024

Comments: Please analyze for the analysis listed above.
Send report to the emails shown above.
24 HR TAT for Perchlorates

QC Level: DOD IV (DoD Data Package)

Relinquished By: _____ Date/Time: _____

Received By: JC Date/Time: 5/2/24 0945

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

E2400432
ALS Environmental - US
HS24050103

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Sample Receipt Checklist

Work Order ID: HS24050103 **Date/Time received:** 02 May 2024 09:45

Client name: Bhate Environmental Associates, Inc. **Received by:** Jacob Coronado

Completed/By: 02 May 2024 10:40 Jacob Coronado (Date/Time / eSignature) **Reviewed/By:** _____ (Date/Time / eSignature)

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	COC ID(s):
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/3.0c ir31

Cooler Information: 1 Cooler(s), 52077

Date/Time sample(s) sent to storage: 05/02/2024 1040

Water - VOA vials have zero headspace?	☑ Yes	☐ No	☐ No VOA vials submitted
Water - pH acceptable upon receipt?	☑ Yes	☐ No	☐ Not Applicable
pH adjusted?	☐ Yes	☑ No	☐ Not Applicable

pH adjusted by: _____

Login notes: _____

Client contacted: _____ **Date contacted:** _____ **Person contacted:** _____

Contacted by: _____ **Regarding:** _____

Comments: _____

Corrective action: _____

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SAMPLE ACCEPTANCE POLICY

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

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

- ✓ Intact on outside of cooler, signed and dated

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

The following is required on each COC:

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

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

Sample Integrity (mandatory):

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

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

Temperature Requirement (varies by sample matrix):

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

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

Preparation Information Benchsheets

ALS Environmental - Houston Specialties Laboratory
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (281)530-5656 Fax (281)530-5887
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Preparation Information Benchsheet

Prep Run#: 437886 **Prep WorkFlow:** GenExt28Day **Status:** Prepped
Team: Semivoa GCMS/NVOSS **Prep Method:** Method **Prep Date/Time:** 5/2/24 14:22

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2400432-001	LH18/24-SP650_050124_BIX	.01	6850/ClO4 DOD			Water	10mL	
2	E2400432-002	LH18/24-SP650_050124_AIX	.01	6850/ClO4 DOD			Water	10mL	
3	EQ2400214-03	LCS		6850/ClO4 DOD			Liquid	10mL	
4	EQ2400214-04	DLCS		6850/ClO4 DOD			Liquid	10mL	
5	EQ2400214-05	MB		6850/ClO4 DOD			Liquid	10mL	
6	EQ2400214-06	ICS		6850/ClO4 DOD			Liquid	10mL	

Spiking Solutions

Name: Perchlorate Intermediate Stock 2 Inventory ID 233555 Logbook Ref: Perchlorate INT. Stock2 Expires On: 08/05/2024

E2400432-001 10.00µL E2400432-002 10.00µL EQ2400214-03 10.00µL EQ2400214-04 10.00µL EQ2400214-05 10.00µL EQ2400214-06 10.00µL

Name: Perchlorate Internal Standard 1ug/mL Inventory ID 233561 Logbook Ref: Perchlorate Internal Standard Expires On: 08/05/2024

E2400432-001 100.00µL E2400432-002 100.00µL EQ2400214-03 100.00µL EQ2400214-04 100.00µL EQ2400214-05 100.00µL EQ2400214-06 100.00µL

Name: Perchlorate Anion Spiking Soln. 25,000 ppm Inventory ID 233595 Logbook Ref: Expires On: 08/04/2024

EQ2400214-06 4.00µL

Preparation Steps

Step: Preparation
Started: 5/2/24 14:22
Finished: 5/2/24 15:00
By: NVOSS
Comments

Comments: _____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

Analytical Results

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400432
Project:	HS24050103	**Date Collected:**	5/ 1/24 1300
Sample Matrix:	Water	**Date Received:**	5/ 2/24
Sample Name:	LH18/24-SP650_050124_BIX	**Units:**	µg/L
Lab Code:	E2400432-001	**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	**1.61**		0.100	0.0500	0.0250	1	5/ 2/24	5/2/24 15:28	437886	839730	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400432
Project:	HS24050103	**Date Collected:**	5/ 1/24 1300
Sample Matrix:	Water	**Date Received:**	5/ 2/24
Sample Name:	LH18/24-SP650_050124_AIX	**Units:**	µg/L
Lab Code:	E2400432-002	**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	**0.0819**	J	0.100	0.0500	0.0250	1	5/ 2/24	5/2/24 15:33	437886	839730	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400432
Project:	HS24050103	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	EQ2400214-05	**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	5/ 2/24	5/2/24 15:06	437886	839730	

Accuracy & Precision

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24050103
Sample Matrix: Water

Service Request: E2400432
Date Analyzed: 5/ 2/24

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: 437886

	Lab Control Sample EQ2400214-03			Duplicate Lab Control Sample EQ2400214-04					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Perchlorate	0.108	0.100	108	0.119	0.100	119	84 - 119	10	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:**	E2400432
Project:	HS24050103	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400214-03	**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	**0.108**		0.100	0.0500	0.0250	1	5/ 2/24	5/2/24 15:11	437886	839730	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - US	**Service Request:**	E2400432
Project:	HS24050103	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Duplicate Lab Control Sample	**Units:**	µg/L
Lab Code:	EQ2400214-04	**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	**0.119**		0.100	0.0500	0.0250	1	5/ 2/24	5/2/24 15:17	437886	839730	

Initial Calibration

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ICAL

Injection Log

LCMS01 -Shimadzu 8050

1st Review: JLJ
2nd Review: SB

ICAL Date: 4/24/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water 233412 **B:**Acetonitrile 233145
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240424-001	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:30
2	20240424-002	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:35
3	20240424-003	LODV	Perchlorate6850c.lcm	1x		4/19/2024 10:41
4	20240424-004	ICS	Perchlorate6850c.lcm	1x		4/19/2024 10:46
5	20240424-005	CCV	Perchlorate6850c.lcm	1x	CCV OUT OF CONTROL NEED ICAL	4/19/2024 10:52
6	20240424-006	IB	Perchlorate6850c.lcm	1x		4/19/2024 10:57
7	20240424-007	IB	Perchlorate6850c.lcm	1x		4/19/2024 11:18
8	20240424-008	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x	233572	4/19/2024 11:24
9	20240424-009	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x	233571	4/19/2024 11:44
10	20240424-010	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x	233570	4/19/2024 11:50
11	20240424-011	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x	233569	4/19/2024 11:56
12	20240424-012	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x	233568	4/19/2024 12:01
13	20240424-013	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x	233567	4/19/2024 12:07
14	20240424-014	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x	233566	4/19/2024 12:12
15	20240424-015	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x	233564	4/19/2024 12:37
16	20240424-016	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x	233563	4/19/2024 12:42
17	20240424-017	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x	233562	4/19/2024 12:48
18	20240424-018	PerchlorateICV	Perchlorate6850c.lcm	1x	230380	4/19/2024 12:53
19	20240424-019	IB	Perchlorate6850c.lcm	1x		4/19/2024 12:59
20	20240424-020	SPK STD TESt	Perchlorate6850c.lcm	1x		4/19/2024 13:04

Initial Calibration - Detailed Report

Calibration ID: EC2400006 **Instrument ID:** E-LCMS-01
Column Name: 1

#	Lab Code	Sample Name	File Location	Aquisition Date
01	EC2400006-01	Perchlorate ICAL 1	20240424-008	04/24/2024 10:31
02	EC2400006-02	Perchlorate ICAL 2	20240424-009	04/24/2024 10:37
03	EC2400006-03	Perchlorate ICAL 3	20240424-010	04/24/2024 10:42
04	EC2400006-04	Perchlorate ICAL 4	20240424-011	04/24/2024 10:48
05	EC2400006-05	Perchlorate ICAL 5	20240424-012	04/24/2024 10:53
06	EC2400006-06	Perchlorate ICAL 6	20240424-013	04/24/2024 10:59
07	EC2400006-07	Perchlorate ICAL 7	20240424-014	04/24/2024 11:04
08	EC2400006-08	Perchlorate ICAL 8	20240424-015	04/24/2024 11:10
09	EC2400006-09	Perchlorate ICAL 9	20240424-016	04/24/2024 11:15
10	EC2400006-10	Perchlorate ICAL 10	20240424-017	04/24/2024 11:21
11	EC2400006-11	PerchlorateICV	20240424-018	04/24/2024 11:26

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

Perchlorate **Average RF** **RSD =**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	0.1000		02	0.5000		03	0.7000		04	1.0000	
05	2.0000		06	5.0000		07	10.0000		08	20.0000	
09	30.0000		10	50.0000		11	10.0000				

Analyte

Perchlorate RSE =

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	0.1000			02	0.5000			03	0.7000		
04	1.0000			05	2.0000			06	5.0000		
07	10.0000			08	20.0000			09	30.0000		
10	50.0000			11	10.0000						

Initial Calibration Verification Summary Report

Calibration ID:	EC2400006	**Instrument ID:**	E-LCMS-01
Datafile ID:	20240424-018	**Column Name:**	1

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
Perchlorate	EC2400006-11	T	Average RF	10	10.086	ng/mL	0.9	<= 15

Project Name |
Version 3.6.65.0
Date 4/26/2024
Time 09:32:19

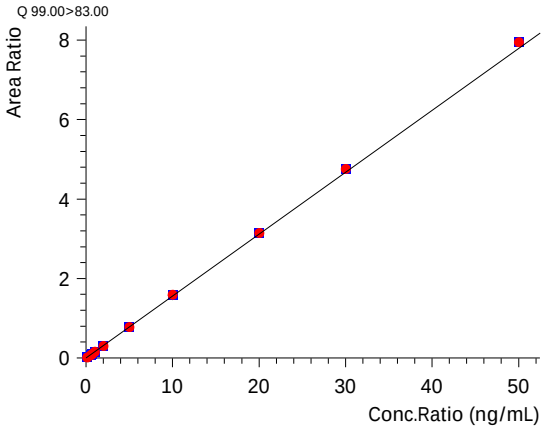
Insight Calibration Report

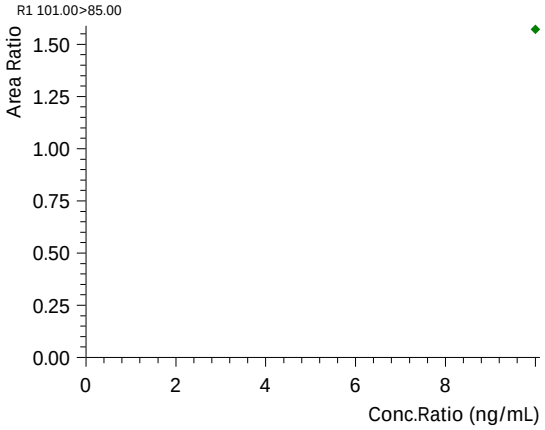
User Admin

ID1: Perchlorate

Curve Fit: Mean RF | Weighting: None | Zero: Not Forced
Quantitative Method: Internal Standard

	R^2	R	Equation
Q 99.00>83.00	----	----	
R1 101.00>85.00	----	----	----





Data Filename	Sample Name	Cal Point	Area	Area Ratio	Conc.	Accuracy(%)
20240424-008	Perchlorate ICAL 1	☑	6689	0.015	0.0989	98.91
20240424-009	Perchlorate ICAL 2	☑	32102	0.074	0.4742	94.83
20240424-010	Perchlorate ICAL 3	☑	50828	0.109	0.6975	99.65
20240424-011	Perchlorate ICAL 4	☑	74897	0.158	1.0138	101.38
20240424-012	Perchlorate ICAL 5	☑	152934	0.303	1.9458	97.29
20240424-013	Perchlorate ICAL 6	☑	381742	0.783	5.0244	100.49
20240424-014	Perchlorate ICAL 7	☑	773249	1.593	10.2250	102.25
20240424-015	Perchlorate ICAL 8	☑	1525784	3.154	20.2437	101.22
20240424-016	Perchlorate ICAL 9	☑	2236081	4.763	30.5732	101.91
20240424-017	Perchlorate ICAL 10	☑	3696255	7.951	51.0354	102.07
20240424-018	PerchlorateICV		770359	1.571	10.0860	100.86

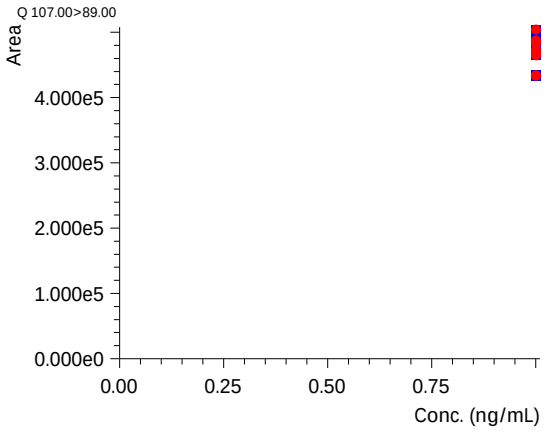
ID2: Sodium Perchlorate-18O4_IS

Curve Fit: Mean RF | Weighting: None | Zero: Not Forced
Quantitative Method: Internal Standard

	R^2	R	Equation
Q 107.00>89.00	----	----	----

Data Filename	Sample Name	Cal Point	Area	Area Ratio	Conc.	Accuracy(%)
20240424-008	Perchlorate ICAL 1	☐	434047	----	1.0000	100.00
20240424-009	Perchlorate ICAL 2	☐	434540	----	1.0000	100.00
20240424-010	Perchlorate ICAL 3	☐	467697	----	1.0000	100.00
20240424-011	Perchlorate ICAL 4	☐	474164	----	1.0000	100.00
20240424-012	Perchlorate ICAL 5	☐	504464	----	1.0000	100.00
20240424-013	Perchlorate ICAL 6	☐	487649	----	1.0000	100.00
20240424-014	Perchlorate ICAL 7	☐	485377	----	1.0000	100.00
20240424-015	Perchlorate ICAL 8	☐	483757	----	1.0000	100.00
20240424-016	Perchlorate ICAL 9	☐	469429	----	1.0000	100.00
20240424-017	Perchlorate ICAL 10	☐	464851	----	1.0000	100.00
20240424-018	PerchlorateICV		490226	----	1.0000	100.00

ID2: Sodium Perchlorate-18O4_IS (continued)



Insight Report

Printed at 4/26/2024 10:07:32 AM

PerchlorateICV

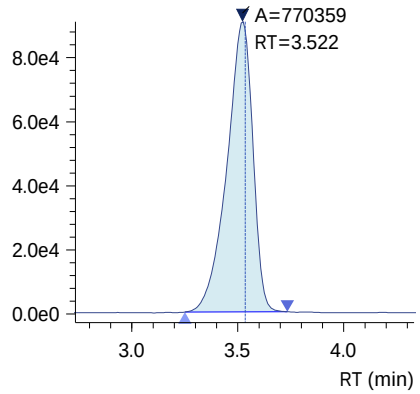
Sample ID: PerchlorateICV
Date Acquired: 4/24/2024 11:26:55 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-018.lcd
Vial: 11 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	770359	490226	10.0860	ng/mL	101.00 >85.00	32.67	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.520	490226	490226	1.0000	ng/mL	----	----	

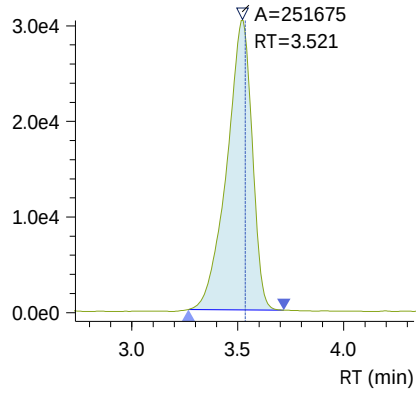
Perchlorate

Conc 10.0860
R#1 32.67 (34.10)

Q 99.00>83.00 (-) 9.12e4



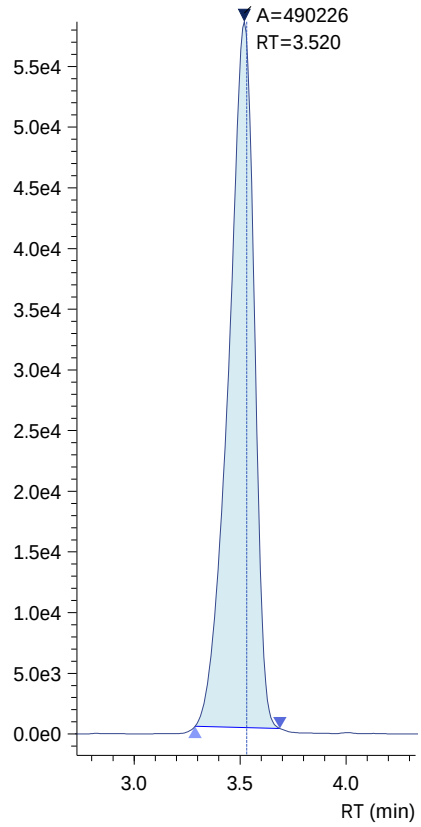
R1 101.00>85.00 (-) 3.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.87e4



Insight Report

Printed at 4/26/2024 10:05:16 AM

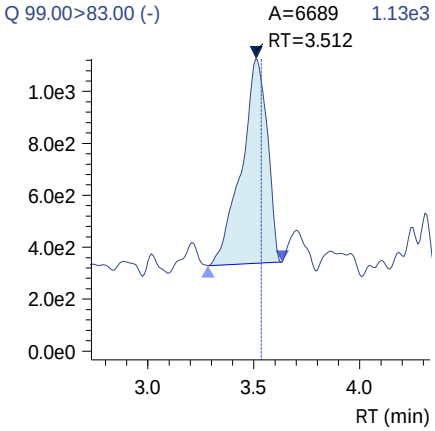
Method File: I:\LCMS01\DATA\20240424\20240424-ICAL.lcm
Project File: I:\LCMS01\DATA\20240424\20240424-ICAL.damlp

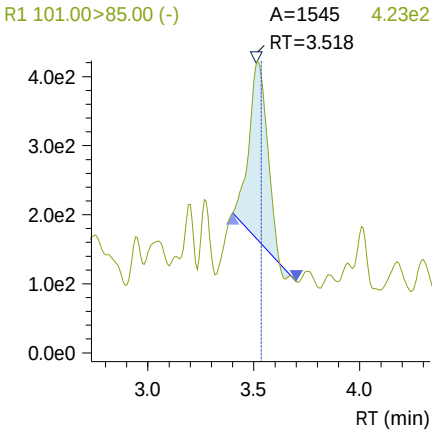
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 4/24/2024 10:31:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Perchlorate

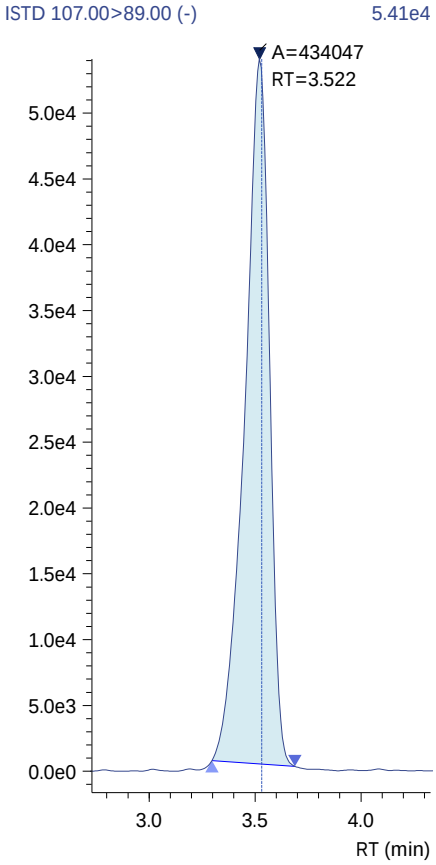
Conc 0.0989
R#1 23.10 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Method File: I:\LCMS01\DATA\20240424\20240424-ICAL.lcm
Project File: I:\LCMS01\DATA\20240424\20240424-ICAL.damlp

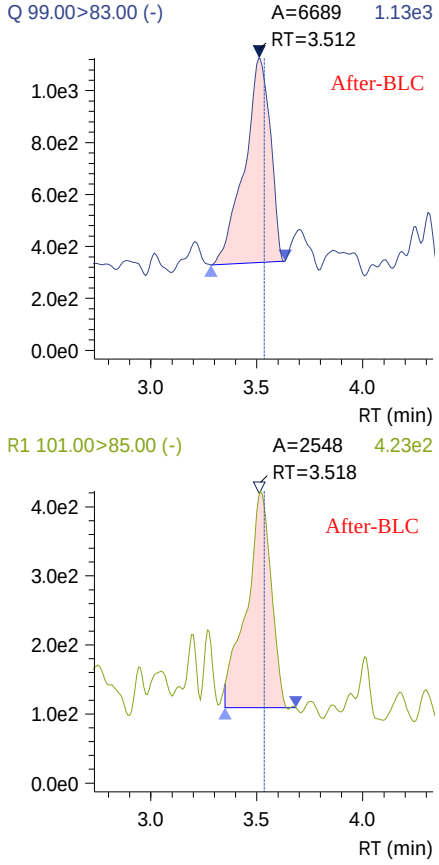
Perchlorate ICAL 1

Sample ID: Perchlorate ICAL 1
Date Acquired: 4/24/2024 10:31:33 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-008.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.512	6689	434047	0.0989	ng/mL	101.00 >85.00	38.09	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.522	434047	434047	1.0000	ng/mL	----	----	

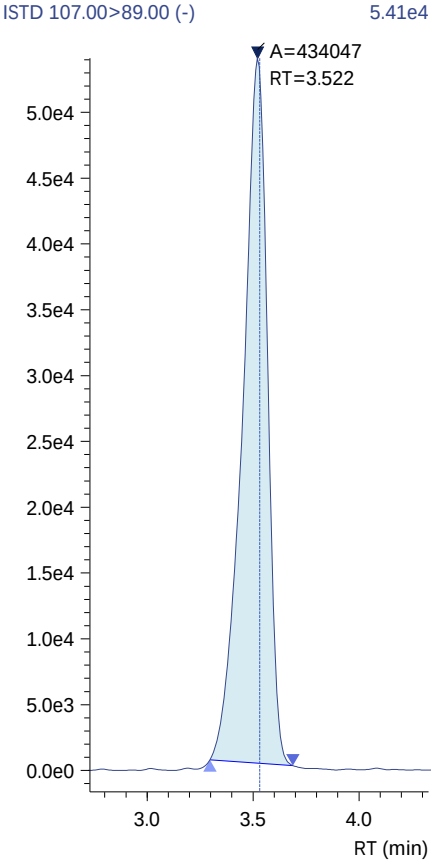
Perchlorate

Conc 0.0989
R#1 38.09 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

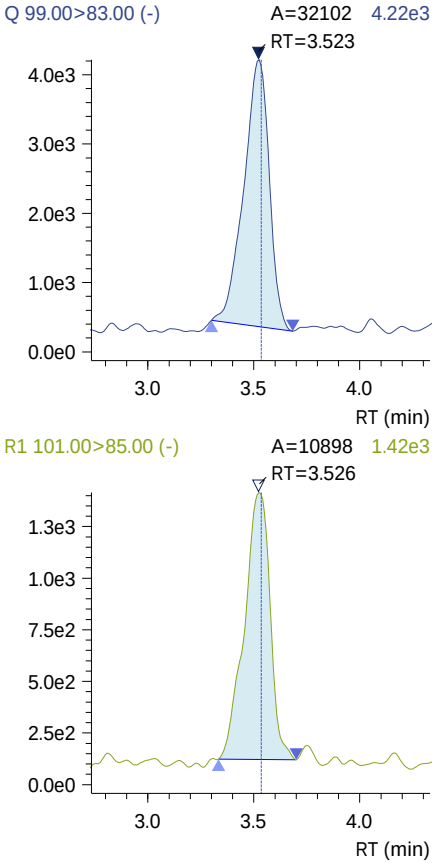
Perchlorate ICAL 2

Sample ID: Perchlorate ICAL 2
Date Acquired: 4/24/2024 10:37:04 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-009.lcd
Vial: 2 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.523	32102	434540	0.4742	ng/mL	101.00 >85.00	33.95	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.523	434540	434540	1.0000	ng/mL	----	----	

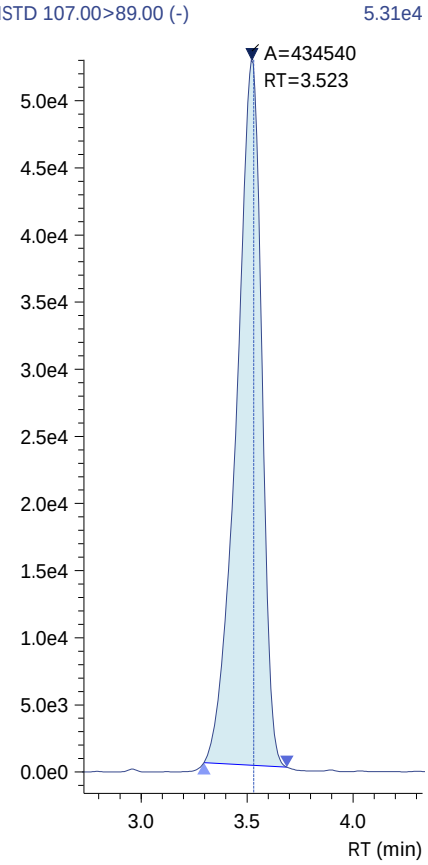
Perchlorate

Conc 0.4742
R#1 33.95 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:05:16 AM

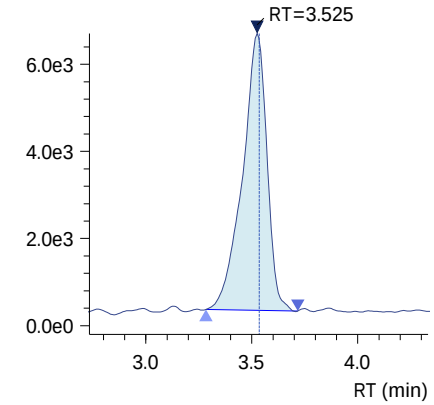
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 4/24/2024 10:42:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

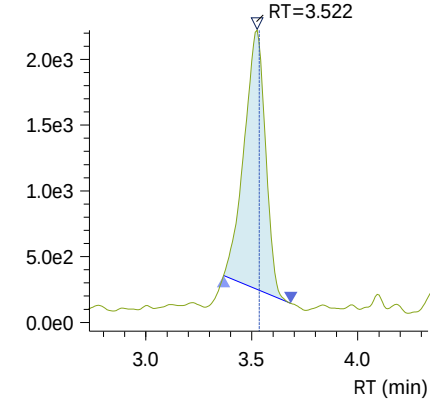
Perchlorate

Conc 0.6975
R#1 27.11 (34.10)

Q 99.00>83.00 (-) A=50828 6.71e3



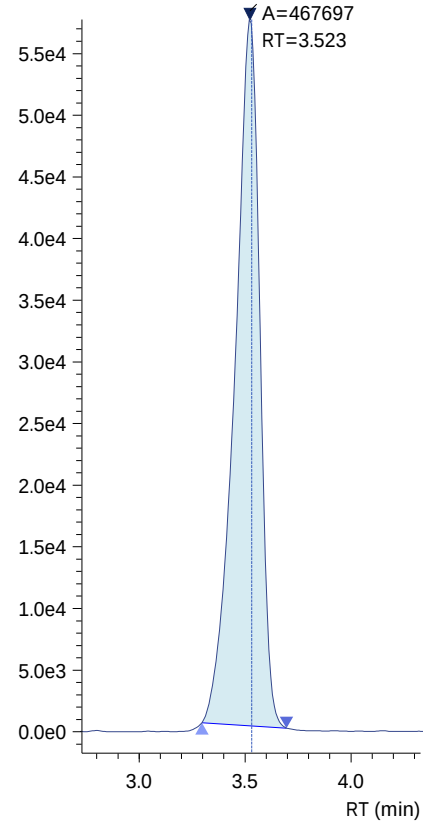
R1 101.00>85.00 (-) A=13778 2.22e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.78e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

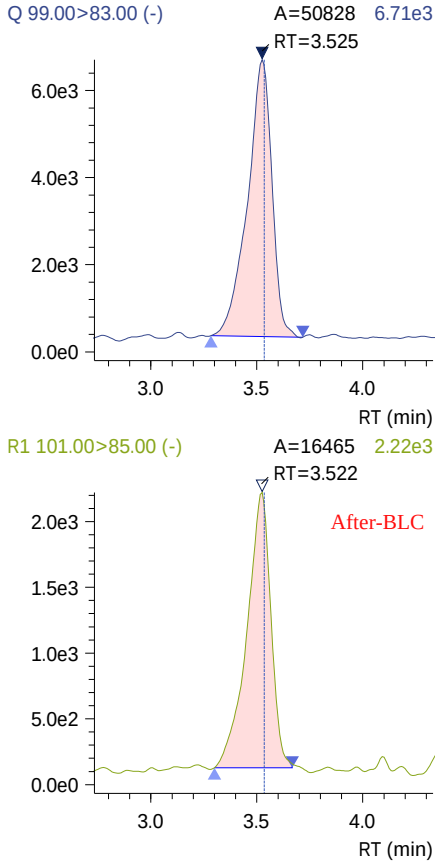
Perchlorate ICAL 3

Sample ID: Perchlorate ICAL 3
Date Acquired: 4/24/2024 10:42:36 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-010.lcd
Vial: 3 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	MI	3.525	50828	467697	0.6975	ng/mL	101.00 >85.00	32.39	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.523	467697	467697	1.0000	ng/mL	----	----	

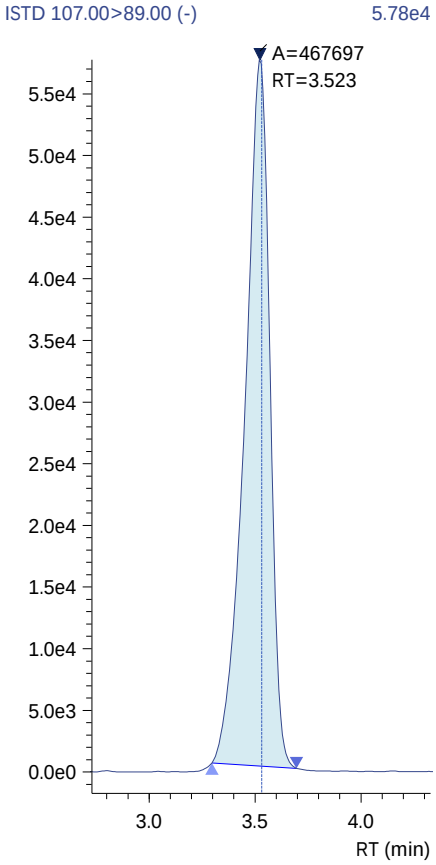
Perchlorate

Conc 0.6975
R#1 32.39 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 4

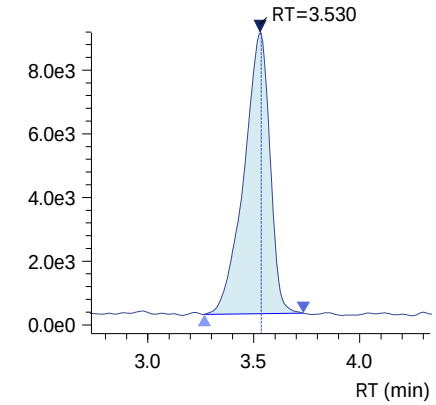
Sample ID: Perchlorate ICAL 4
Date Acquired: 4/24/2024 10:48:09 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-011.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.530	74897	474164	1.0138	ng/mL	101.00 >85.00	31.62	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.524	474164	474164	1.0000	ng/mL	----	----	

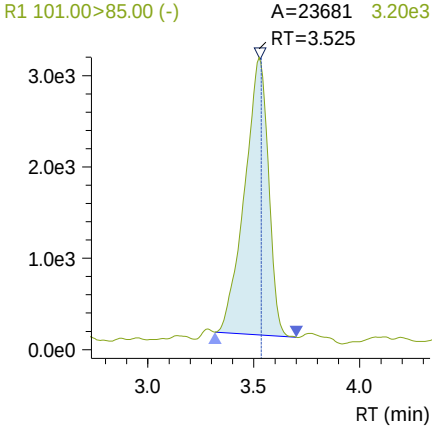
Perchlorate

Conc 1.0138
R#1 31.62 (34.10)

Q 99.00>83.00 (-) A=74897 9.18e3



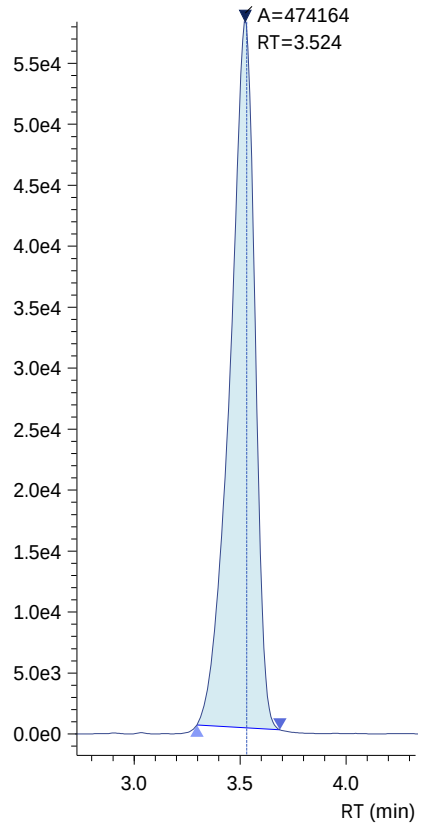
R1 101.00>85.00 (-) A=23681 3.20e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.84e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 5

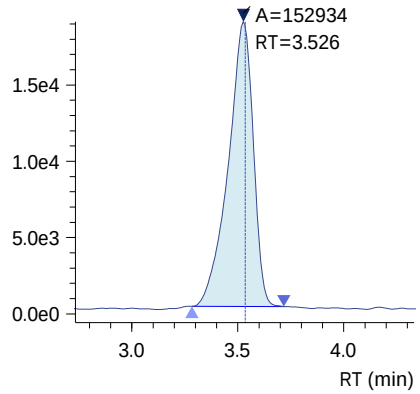
Sample ID: Perchlorate ICAL 5
Date Acquired: 4/24/2024 10:53:40 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-012.lcd
Vial: 5 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.526	152934	504464	1.9458	ng/mL	101.00 >85.00	34.42	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.525	504464	504464	1.0000	ng/mL	----	----	

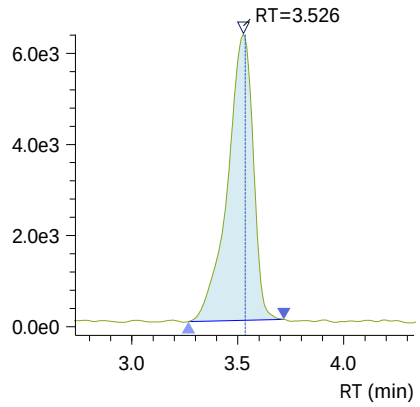
Perchlorate

Conc 1.9458
R#1 34.42 (34.10)

Q 99.00>83.00 (-) 1.91e4



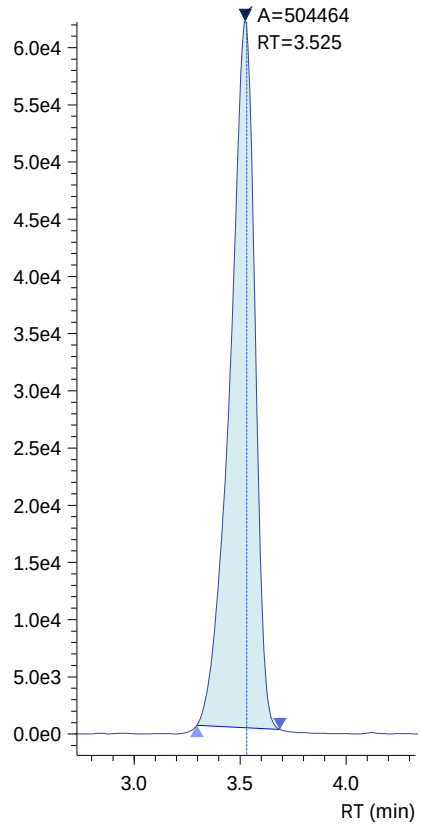
R1 101.00>85.00 (-) A=52644 6.42e3



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 6.23e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 6

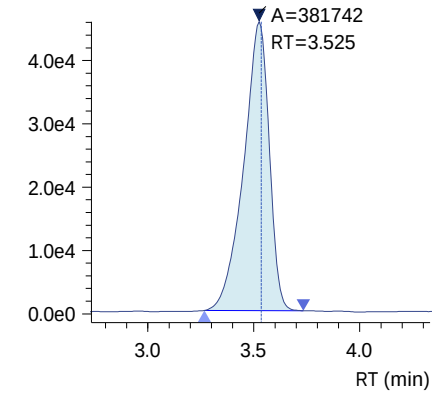
Sample ID: Perchlorate ICAL 6
Date Acquired: 4/24/2024 10:59:11 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-013.lcd
Vial: 6 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	381742	487649	5.0244	ng/mL	101.00 >85.00	33.17	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.522	487649	487649	1.0000	ng/mL	----	----	

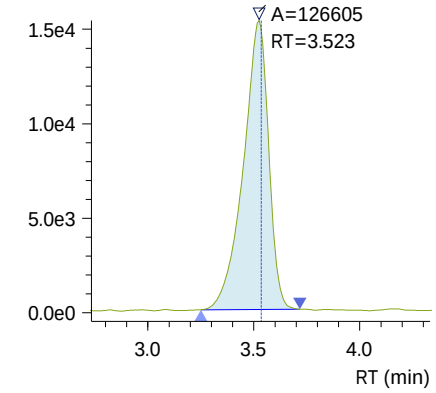
Perchlorate

Conc 5.0244
R#1 33.17 (34.10)

Q 99.00>83.00 (-) 4.61e4



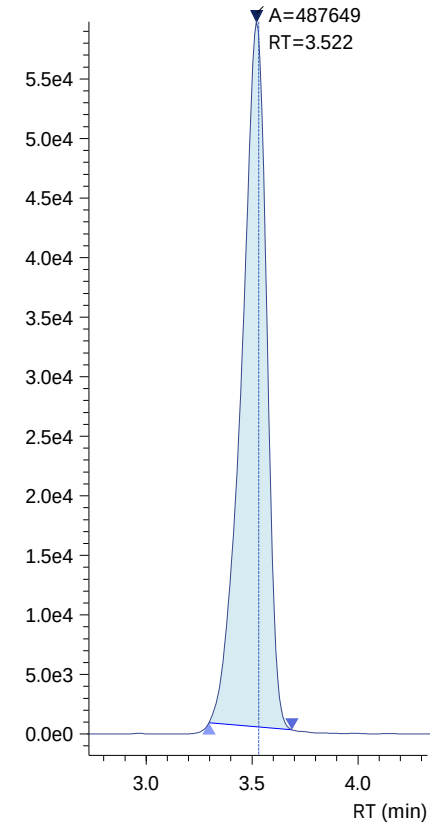
R1 101.00>85.00 (-) 1.55e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.98e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 7

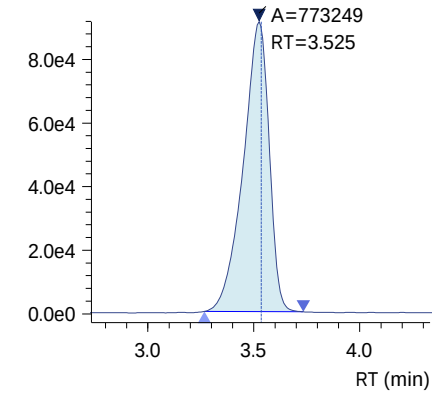
Sample ID: Perchlorate ICAL 7
Date Acquired: 4/24/2024 11:04:46 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-014.lcd
Vial: 7 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	773249	485377	10.2 250	ng/mL	101.00 >85.00	33.37	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.521	485377	485377	1.0000	ng/mL	----	----	

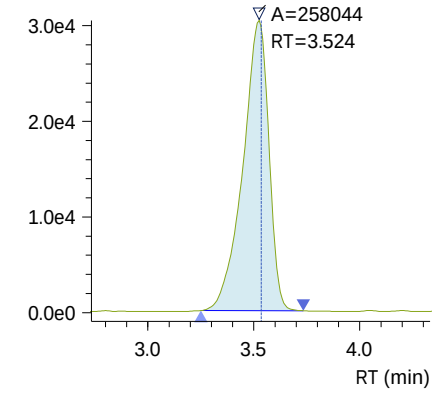
Perchlorate

Conc 10.2250
R#1 33.37 (34.10)

Q 99.00>83.00 (-) 9.19e4



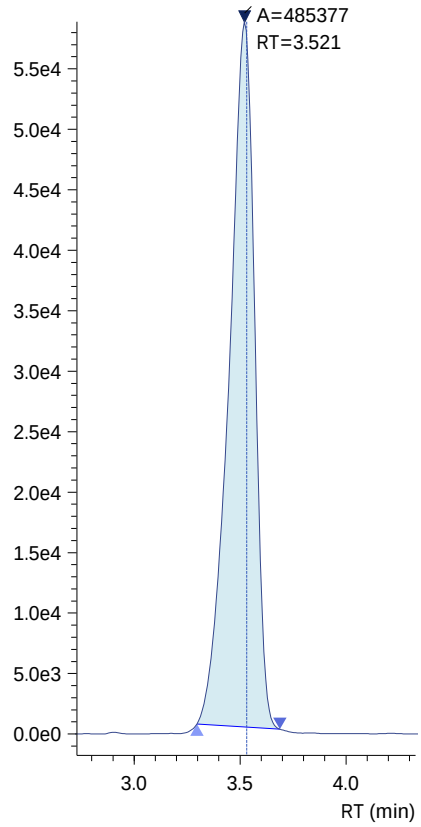
R1 101.00>85.00 (-) 3.06e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.89e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 8

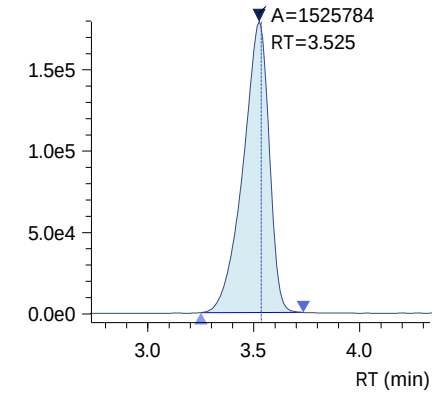
Sample ID: Perchlorate ICAL 8
Date Acquired: 4/24/2024 11:10:18 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-015.lcd
Vial: 8 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	15257 84	483757	20.2 437	ng/mL	101.00 >85.00	32.96	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.520	483757	483757	1.0000	ng/mL	----	----	

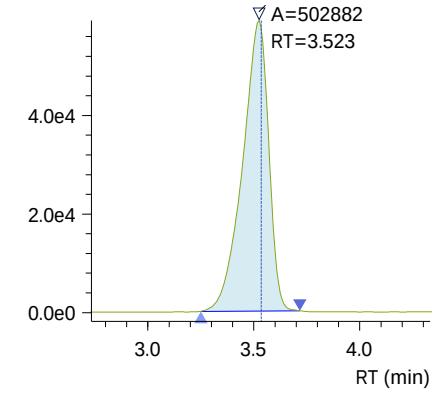
Perchlorate

Conc 20.2437
R#1 32.96 (34.10)

Q 99.00>83.00 (-) 1.80e5



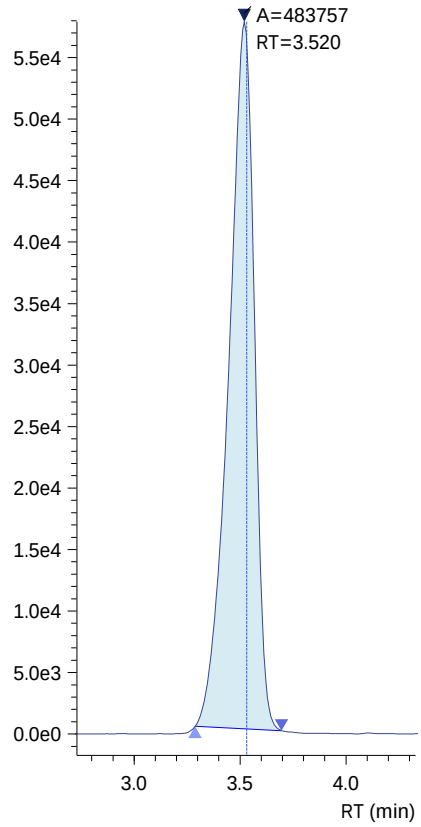
R1 101.00>85.00 (-) 5.93e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.79e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 9

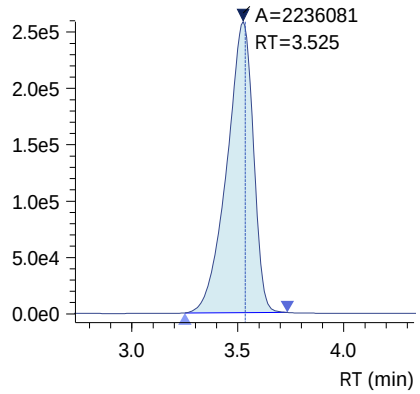
Sample ID: Perchlorate ICAL 9
Date Acquired: 4/24/2024 11:15:53 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-016.lcd
Vial: 9 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	22360 81	469429	30.5 732	ng/mL	101.00 >85.00	32.91	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.521	469429	469429	1.0000	ng/mL	----	----	

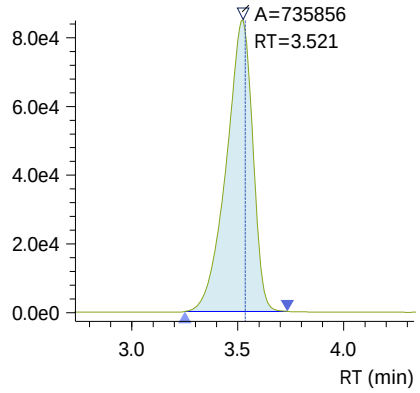
Perchlorate

Conc 30.5732
R#1 32.91 (34.10)

Q 99.00>83.00 (-) 2.59e5



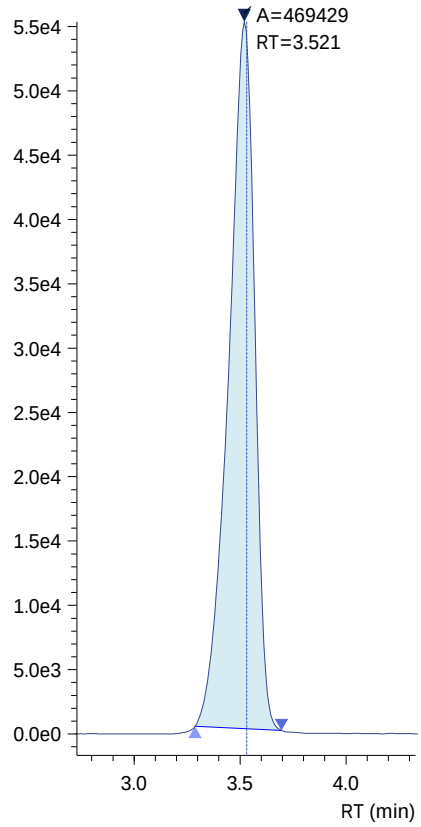
R1 101.00>85.00 (-) 8.50e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.54e4



Insight Report

Printed at 4/26/2024 10:07:32 AM

Perchlorate ICAL 10

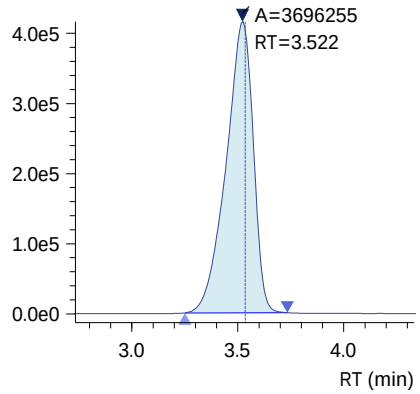
Sample ID: Perchlorate ICAL 10
Date Acquired: 4/24/2024 11:21:25 AM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240424\20240424-017.lcd
Vial: 10 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	36962	464851	51.0	ng/mL	101.00	32.99	26.31
			55		354		>85.00		-43.47
Sodium Perchlorate -18O4_IS	Auto	3.518	464851	464851	1.0000	ng/mL	----	----	

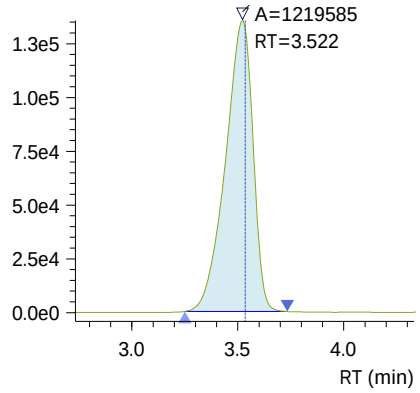
Perchlorate

Conc 51.0354
R#1 32.99 (34.10)

Q 99.00>83.00 (-) 4.17e5



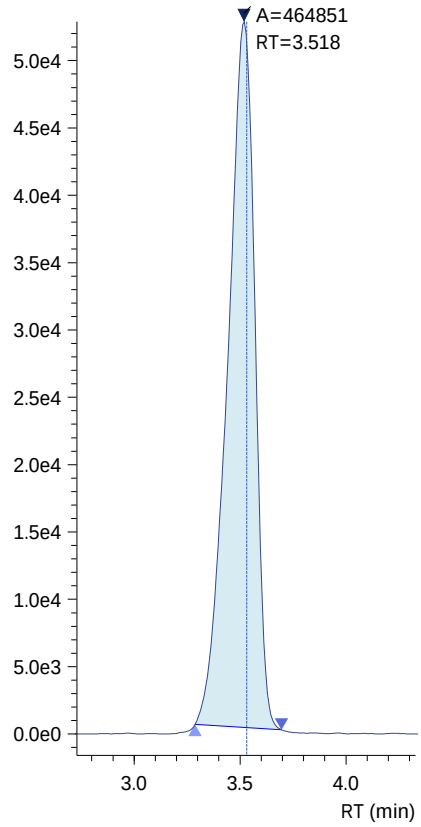
R1 101.00>85.00 (-) 1.36e5



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 5.29e4



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

839730

Injection Log

LCMS01 -Shimadzu 8050

1st Review: NMV
2nd Review: SB

ICAL Date: 4/24/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time
1	20240424-008	Perchlorate ICAL 1	Perchlorate6850c.lcm	1x		4/24/2024 10:31
2	20240424-009	Perchlorate ICAL 2	Perchlorate6850c.lcm	1x		4/24/2024 10:37
3	20240424-010	Perchlorate ICAL 3	Perchlorate6850c.lcm	1x		4/24/2024 10:42
4	20240424-011	Perchlorate ICAL 4	Perchlorate6850c.lcm	1x		4/24/2024 10:48
5	20240424-012	Perchlorate ICAL 5	Perchlorate6850c.lcm	1x		4/24/2024 10:53
6	20240424-013	Perchlorate ICAL 6	Perchlorate6850c.lcm	1x		4/24/2024 10:59
7	20240424-014	Perchlorate ICAL 7	Perchlorate6850c.lcm	1x		4/24/2024 11:04
8	20240424-015	Perchlorate ICAL 8	Perchlorate6850c.lcm	1x		4/24/2024 11:10
9	20240424-016	Perchlorate ICAL 9	Perchlorate6850c.lcm	1x		4/24/2024 11:15
10	20240424-017	Perchlorate ICAL 10	Perchlorate6850c.lcm	1x		4/24/2024 11:21
11	20240502-001	IB	Perchlorate6850c.lcm	1x		5/2/2024 13:14
12	20240502-002	LODV	Perchlorate6850c.lcm	1x		5/2/2024 13:20
13	20240502-003	EQ2400214-06ICS	Perchlorate6850c.lcm	1x		5/2/2024 13:25
14	20240502-004	CCV	Perchlorate6850c.lcm	1x		5/2/2024 13:31
15	20240502-006	DONOT USE	Perchlorate6850c.lcm	0.1	DNU screening dilution	5/2/2024 14:55
16	20240502-007	DONOT USE	Perchlorate6850c.lcm	0.1	DNU screening dilution	5/2/2024 15:00
17	20240502-008	EQ2400214-05MB	Perchlorate6850c.lcm	1x		5/2/2024 15:06
18	20240502-009	EQ2400214-03LCS	Perchlorate6850c.lcm	1x		5/2/2024 15:11
19	20240502-010	EQ2400214-04DLCS	Perchlorate6850c.lcm	1x		5/2/2024 15:17
20	20240502-011	DONOT USE	Perchlorate6850c.lcm	1x	DNU bad inj	5/2/2024 15:22
21	20240502-012	EQ2400432-001	Perchlorate6850c.lcm	1x		5/2/2024 15:28
22	20240502-013	EQ2400432-002	Perchlorate6850c.lcm	1x		5/2/2024 15:33
23	20240502-014	CCV	Perchlorate6850c.lcm	1x		5/2/2024 15:39
24	20240502-015	IB	Perchlorate6850c.lcm	1x		5/2/2024 15:45

839730

Injection Log

LCMS01 -Shimadzu 8050

1st Review: NMV
2nd Review: SB

ICAL Date: 4/24/2024
Cal. Std. xp: 8/13/2024
ICAL ID: EC2400006

Mobile Phases : A:20mM ammonium acetate in water **3211810-9 B:**Acetonitrile 3211810-8
LODV: 233573 **CCV:233565**

	File Name	Sample Name	Acquisition Method	Dilution	Comments	Date/Time

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:	ALS Environmental - US	**Service Request:**	E2400432
Project:	HS24050103	**Date Analyzed:**	5/2/24 13:31

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

File ID:	I:\LCMS01\DATA\20240502\20240502-004	**Lab Code:**	EQ2400215-01
Instrument ID:	E-LCMS-01	**Analysis Lot:**	839730
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	470,598	3.52
	Upper Limit ==>	705,897	5.52
	Lower Limit ==>	235,299	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400215-01	314,159	3.52
Method Blank	EQ2400214-05	325,556	3.52
Lab Control Sample	EQ2400214-03	334,441	3.52
Duplicate Lab Control Sample	EQ2400214-04	330,446	3.52
LH18/24-SP650_050124_BIX	E2400432-001	351,546	3.52
LH18/24-SP650_050124_AIX	E2400432-002	351,161	3.52

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:**	E2400432
Project:	HS24050103	**Date Analyzed:**	5/2/24 15:39

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

File ID:	I:\LCMS01\DATA\20240502\20240502-014	**Lab Code:**	EQ2400215-02
Instrument ID:	E-LCMS-01	**Analysis Lot:**	839730
Analytical Method:	6850	**Signal ID:**	1

		Sodium Perchlorate-18O4	
		Area	**RT**
	ICAL Average ==>	470,598	3.52
	Upper Limit ==>	705,897	5.52
	Lower Limit ==>	235,299	1.52
Associated Analyses			
Continuing Calibration Verification	EQ2400215-02	314,177	3.52

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: HS24050103

Service Request: E2400432
Date Analyzed: 5/ 2/24

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\20240502\20240502-004

Calibration Date: 4/24/24
Calibration ID: EC2400006
Analysis Lot: 839730
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.5	0.1558	0.1631	4.7	NA	± 15 %	Average RF

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: ALS Environmental - US
Project: HS24050103

Service Request: E2400432
Date Analyzed: 5/ 2/24

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\20240502\20240502-014

Calibration Date: 4/24/24
Calibration ID: EC2400006
Analysis Lot: 839730
Units: ng/mL

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Perchlorate	10.0	10.4	0.1558	0.1626	4.3	NA	± 15 %	Average RF

Insight Report

Printed at 5/3/2024 8:35:28 AM

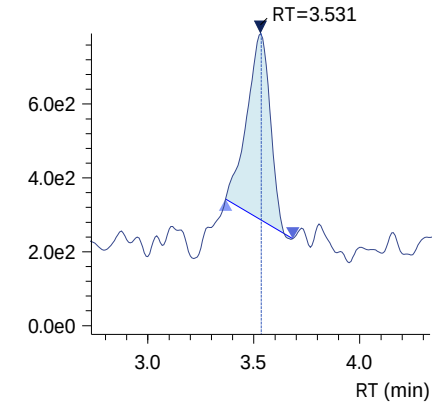
EQ2400214-04DLCS

Sample ID: EQ2400214-04DLCS
Date Acquired: 5/2/2024 3:17:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-010.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 1

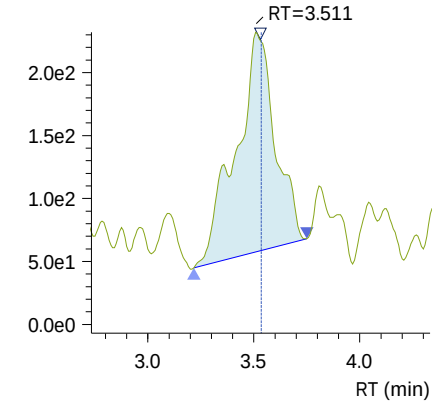
Perchlorate

Conc 0.0742
R#1 58.48 (34.10)

Q 99.00>83.00 (-) A=3823 7.91e2



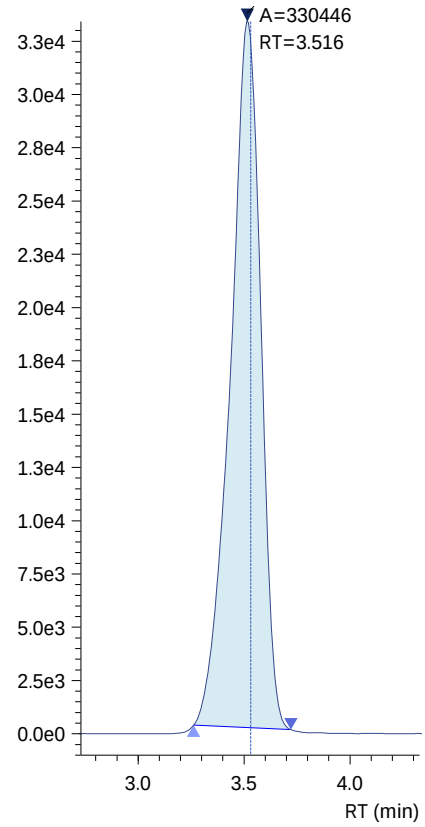
R1 101.00>85.00 (-) A=2235 2.32e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.34e4



Insight Report

Printed at 5/3/2024 12:24:47 PM

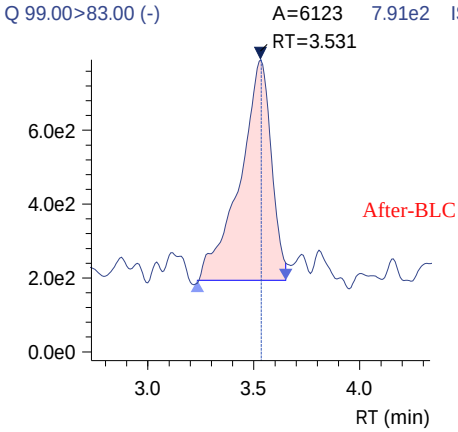
EQ2400214-04DLCS

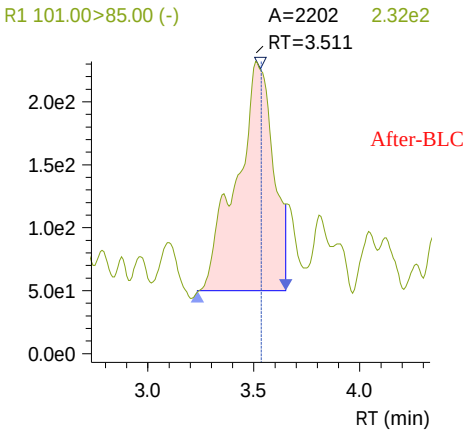
Sample ID: EQ2400214-04DLCS
Date Acquired: 5/2/2024 3:17:19 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-010.lcd
Vial: 23 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.531	6123	330446	0.1189	ng/mL	101.00 >85.00	35.96	22.85 -42.43
Sodium Perchlorate -18O4_IS	Auto	3.516	330446	330446	1.0000	ng/mL	----	----	

Perchlorate

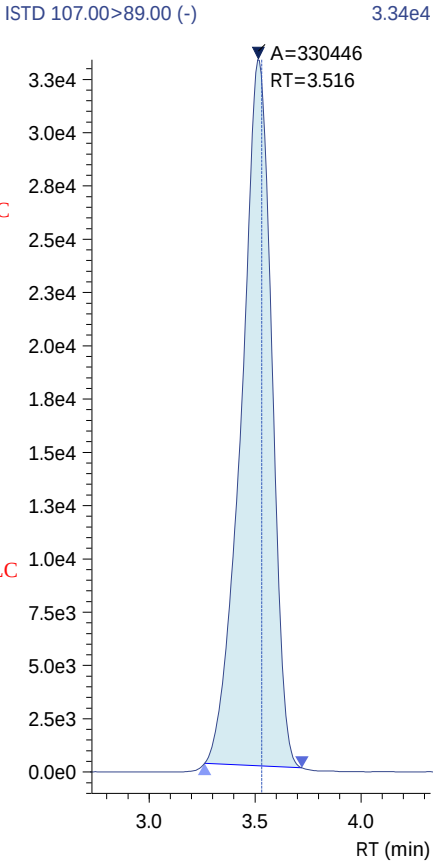
Conc 0.1189
R#1 35.96 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/3/2024 8:34:45 AM

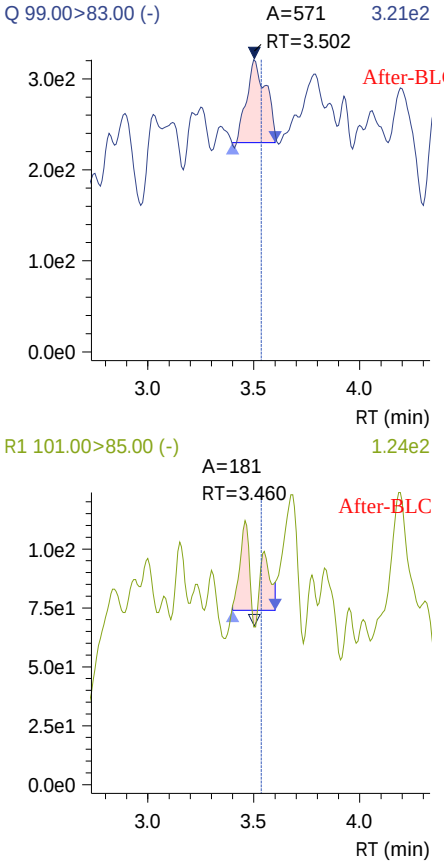
EQ2400214-06ICS

Sample ID: EQ2400214-06ICS
Date Acquired: 5/2/2024 3:22:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-011.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.502	571	359501	0.0102	ng/mL	101.00 >85.00	31.60	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.517	359501	359501	1.0000	ng/mL	----	----	

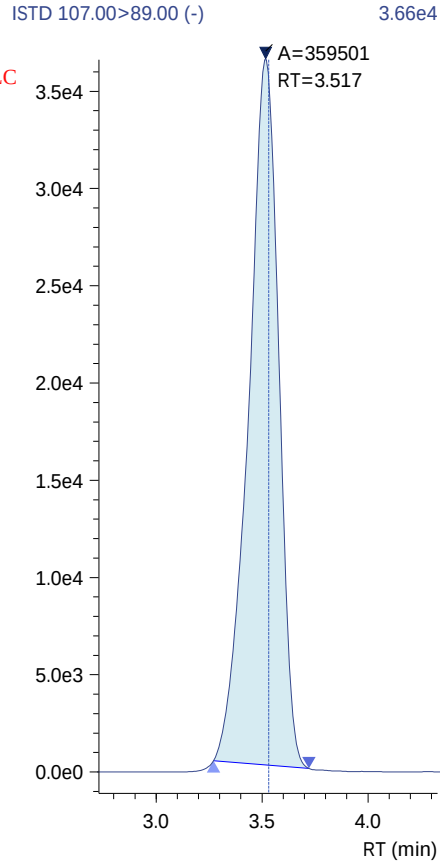
Perchlorate

Conc 0.0102
R#1 31.60 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/3/2024 8:35:28 AM

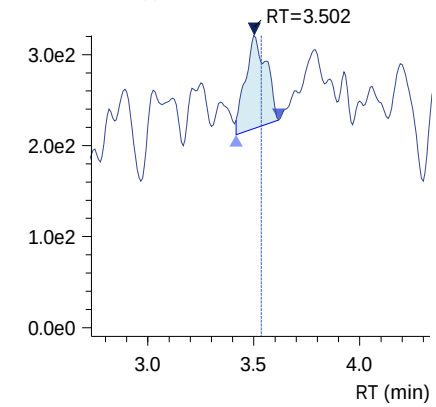
EQ2400214-06ICS

Sample ID: EQ2400214-06ICS
Date Acquired: 5/2/2024 3:22:50 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-011.lcd
Vial: 24 | Inj. Volume: 10.0000uL | Tray: 1

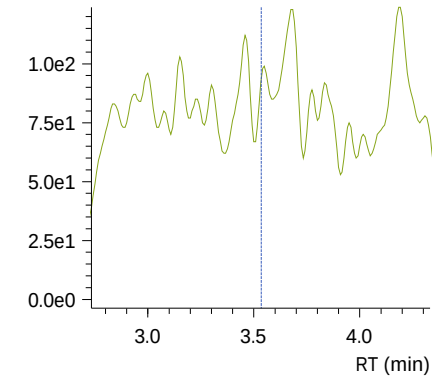
Perchlorate

Conc 0.0125
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=699 3.21e2



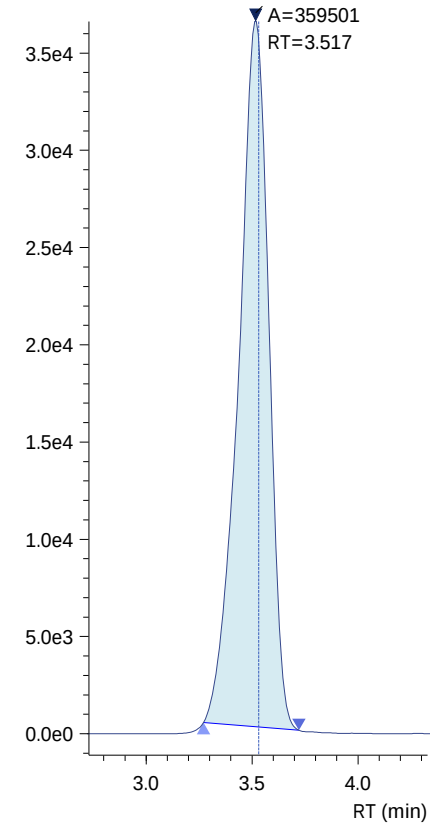
R1 101.00>85.00 (-) 1.24e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.66e4



Insight Report

Printed at 5/3/2024 12:24:47 PM

IB

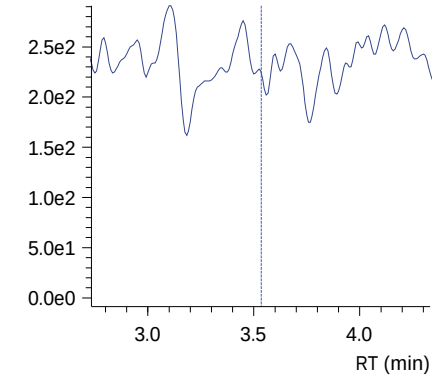
Sample ID: IB
Date Acquired: 5/2/2024 1:14:38 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-001.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	314556	----	ng/mL	101.00 >85.00	0.00	22.85 -42.43
Sodium Perchlorate-18O4_IS	Auto	3.522	314556	314556	1.0000	ng/mL	----	----	

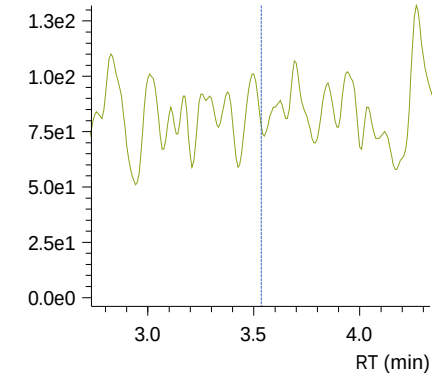
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.91e2



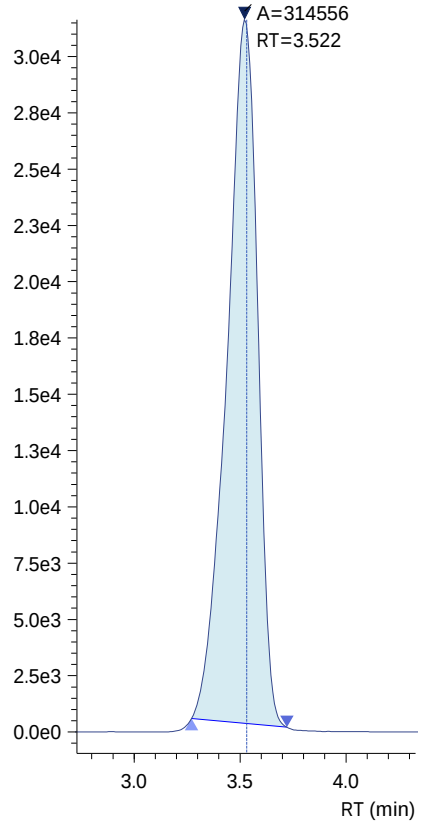
R1 101.00>85.00 (-) 1.32e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.16e4



Insight Report

Printed at 5/3/2024 8:35:28 AM

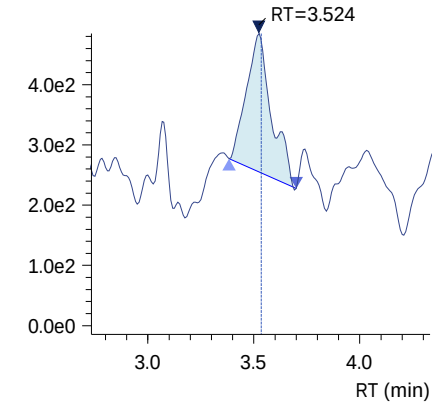
LODV

Sample ID: LODV
Date Acquired: 5/2/2024 1:20:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

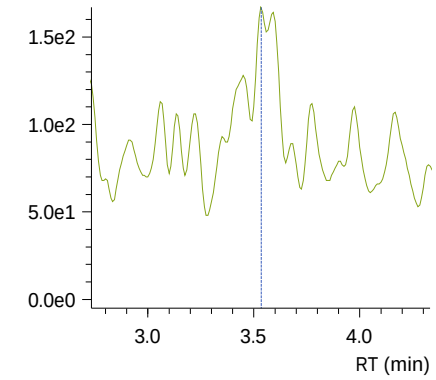
Perchlorate

Conc 0.0383
R#1 0.00 (34.10)

Q 99.00>83.00 (-) A=1883 4.85e2



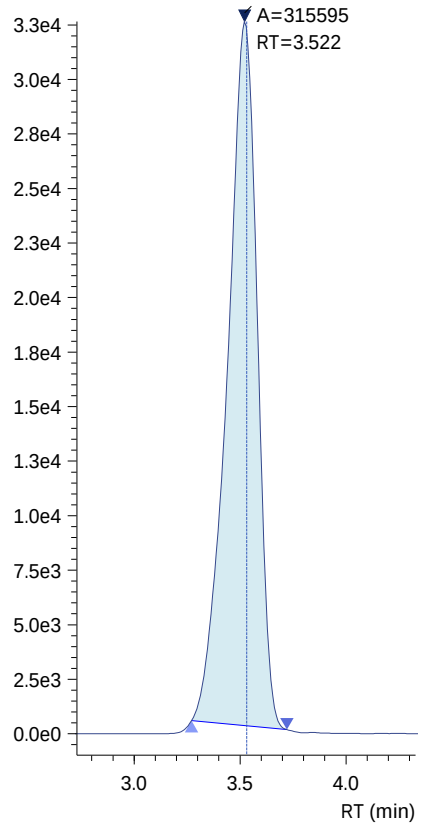
R1 101.00>85.00 (-) 1.67e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.27e4



Insight Report

Printed at 5/3/2024 12:24:47 PM

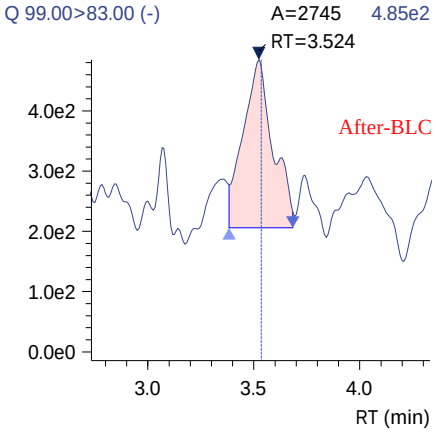
LODV

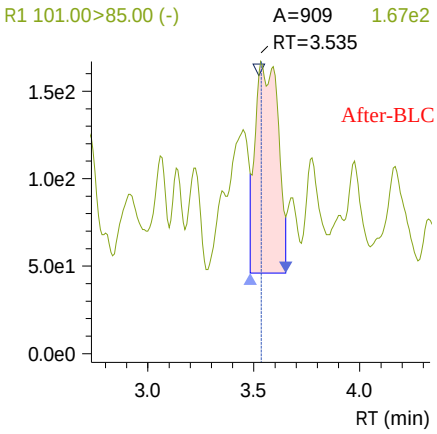
Sample ID: LODV
Date Acquired: 5/2/2024 1:20:12 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-002.lcd
Vial: 12 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.524	2745	315595	0.0558	ng/mL	101.00 >85.00	33.13	22.85 -42.43
Sodium Perchlorate -18O4_IS	Auto	3.522	315595	315595	1.0000	ng/mL	----	----	

Perchlorate

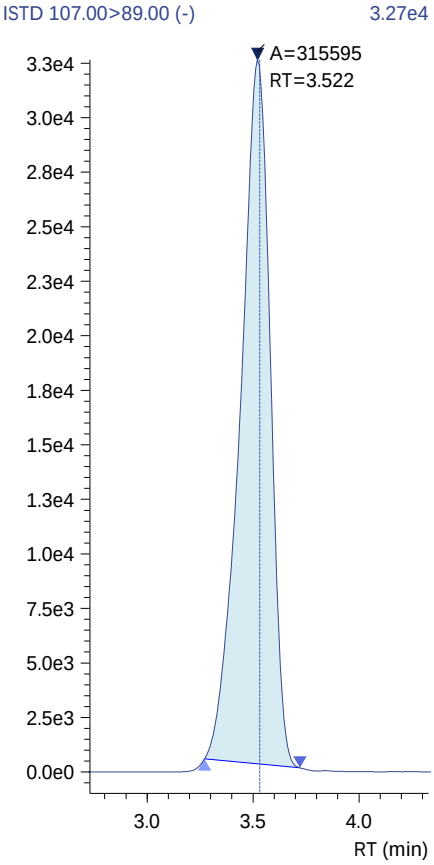
Conc 0.0558
R#1 33.13 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/3/2024 10:45:38 AM

EQ2400214-06ICS

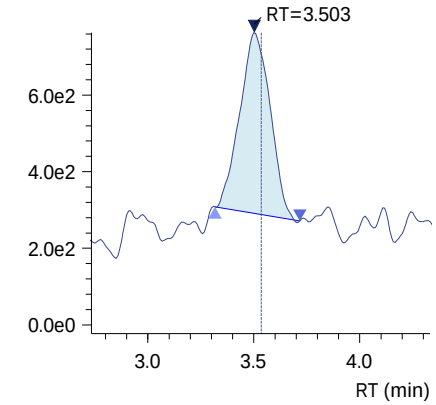
Sample ID: EQ2400214-06ICS
Date Acquired: 5/2/2024 1:25:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-003.lcd
Vial: 4 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.503	4723	370318	0.0819	ng/mL	101.00 >85.00	38.06	22.85 -42.43
Sodium Perchlorate -18O4_IS	Auto	3.521	370318	370318	1.0000	ng/mL	----	----	

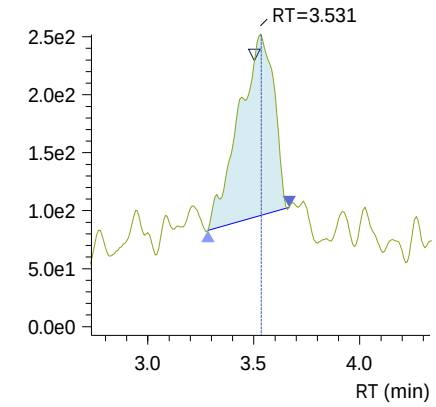
Perchlorate

Conc 0.0819
R#1 38.06 (34.10)

Q 99.00>83.00 (-) A=4723 7.63e2



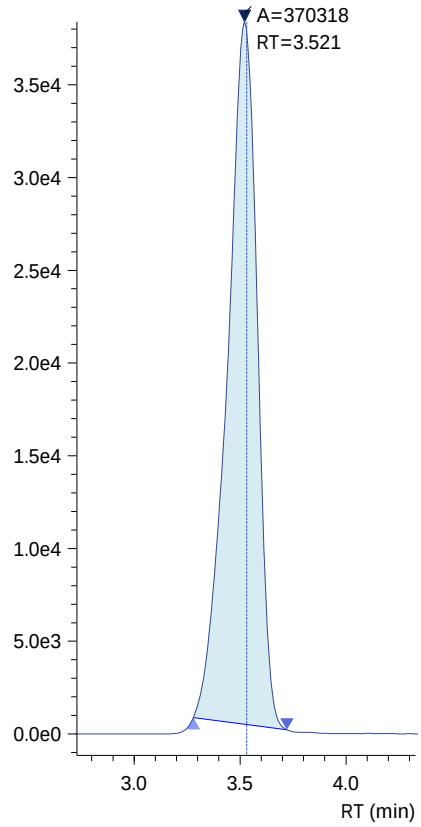
R1 101.00>85.00 (-) A=1798 2.52e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.84e4



Insight Report

Printed at 5/3/2024 12:24:47 PM

CCV

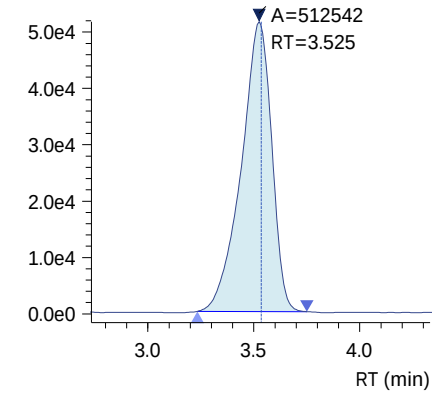
Sample ID: CCV
Date Acquired: 5/2/2024 1:31:17 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-004.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.525	512542	314159	10.4 714	ng/mL	101.00 >85.00	32.63	22.85 -42.43
Sodium Perchlorate -18O4_IS	Auto	3.523	314159	314159	1.0000	ng/mL	----	----	

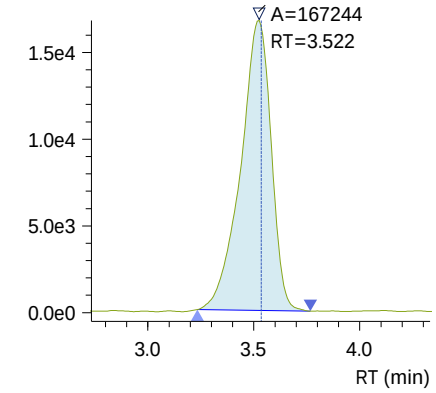
Perchlorate

Conc 10.4714
R#1 32.63 (34.10)

Q 99.00>83.00 (-) 5.18e4



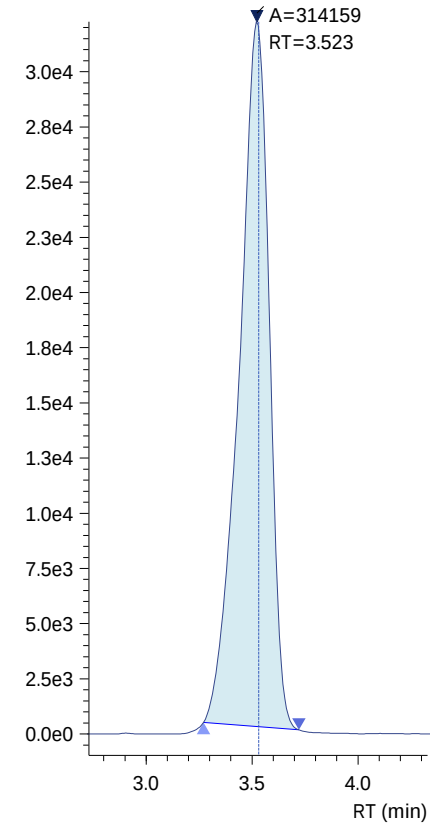
R1 101.00>85.00 (-) 1.68e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.23e4



Insight Report

Printed at 5/3/2024 8:34:45 AM

EQ2400214-05MB

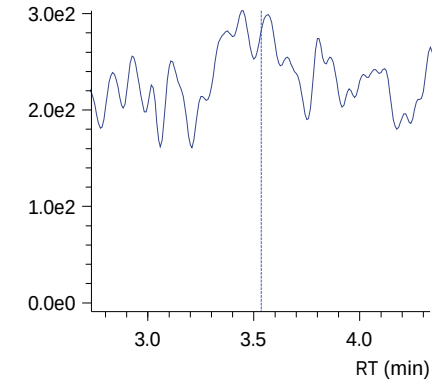
Sample ID: EQ2400214-05MB
Date Acquired: 5/2/2024 3:06:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-008.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	325556	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.518	325556	325556	1.0000	ng/mL	----	----	

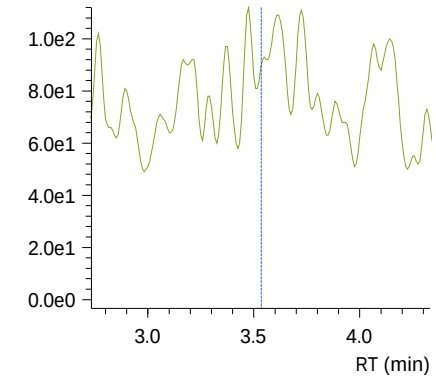
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.03e2



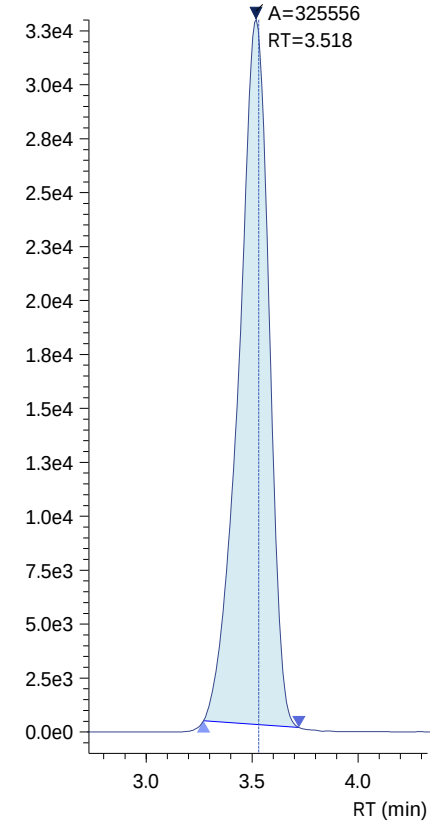
R1 101.00>85.00 (-) 1.12e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.30e4



Insight Report

Printed at 5/3/2024 12:24:47 PM

EQ2400214-05MB

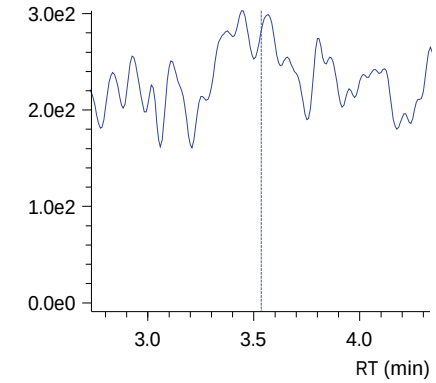
Sample ID: EQ2400214-05MB
Date Acquired: 5/2/2024 3:06:13 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-008.lcd
Vial: 21 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	325556	----	ng/mL	101.00 >85.00	0.00	22.85 -42.43
Sodium Perchlorate-18O4_IS	Auto	3.518	325556	325556	1.0000	ng/mL	----	----	

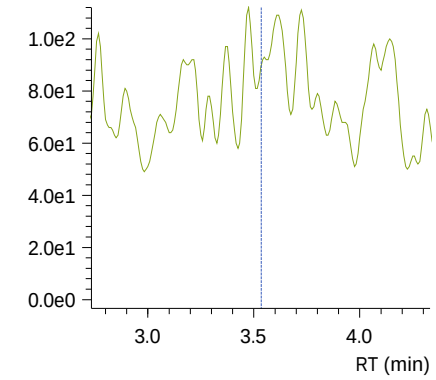
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 3.03e2



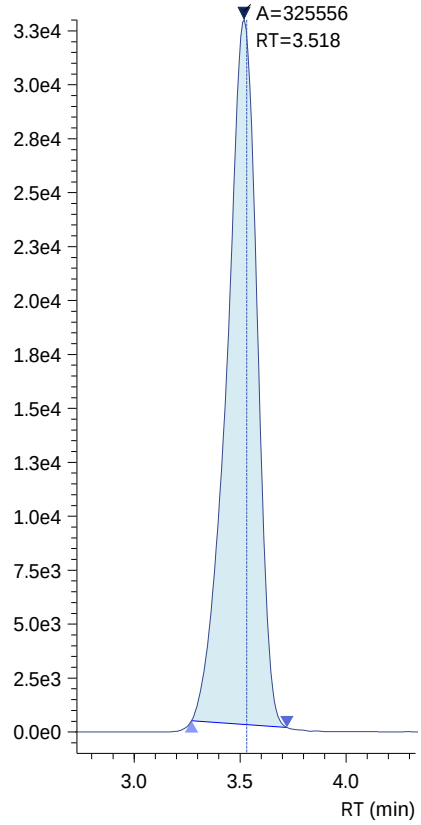
R1 101.00>85.00 (-) 1.12e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.30e4



Insight Report

Printed at 5/3/2024 8:34:45 AM

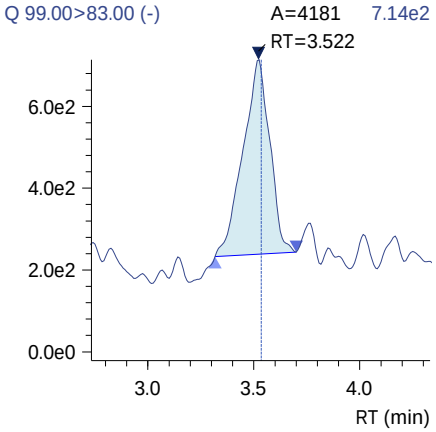
EQ2400214-03LCS

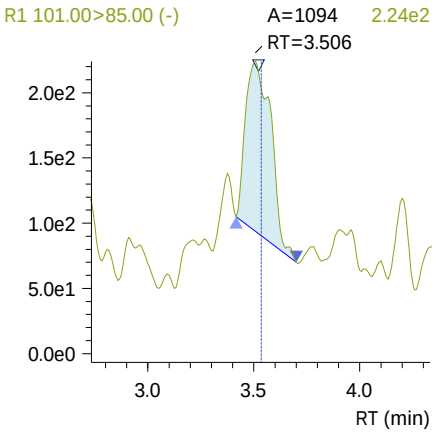
Sample ID: EQ2400214-03LCS
Date Acquired: 5/2/2024 3:11:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-009.lcd
Vial: 22 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	4181	334441	0.0802	ng/mL	101.00 >85.00	26.16	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.518	334441	334441	1.0000	ng/mL	----	----	

Perchlorate

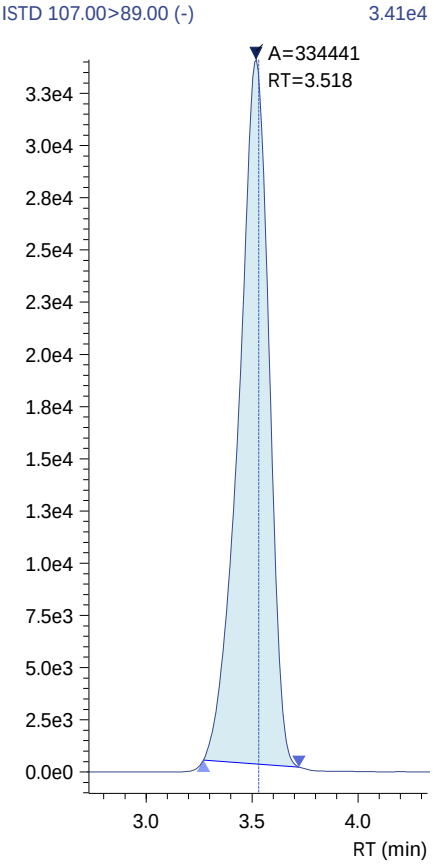
Conc 0.0802
R#1 26.16 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/3/2024 12:24:47 PM

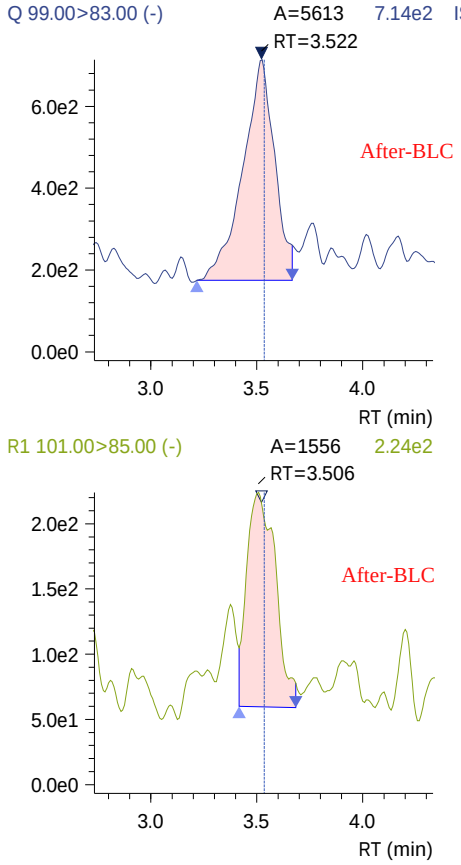
EQ2400214-03LCS

Sample ID: EQ2400214-03LCS
Date Acquired: 5/2/2024 3:11:44 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-009.lcd
Vial: 22 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	M	3.522	5613	334441	0.1077	ng/mL	101.00 >85.00	27.72	22.85 -42.43
Sodium Perchlorate -18O4_IS	Auto	3.518	334441	334441	1.0000	ng/mL	----	----	

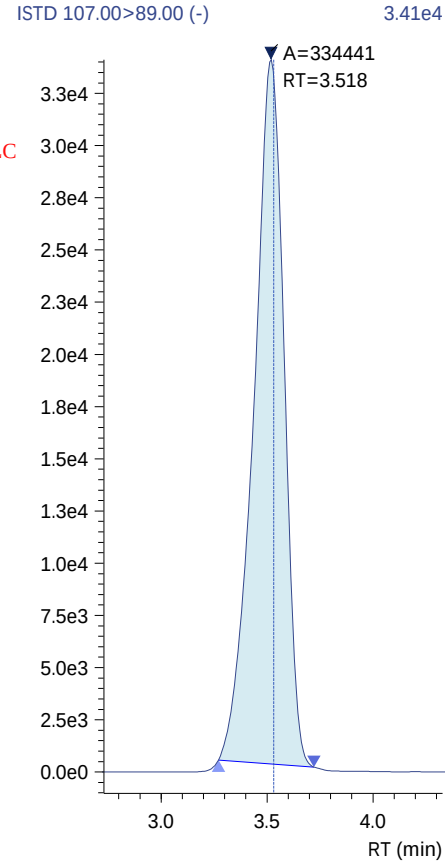
Perchlorate

Conc 0.1077
R#1 27.72 (34.10)



Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/3/2024 12:24:47 PM

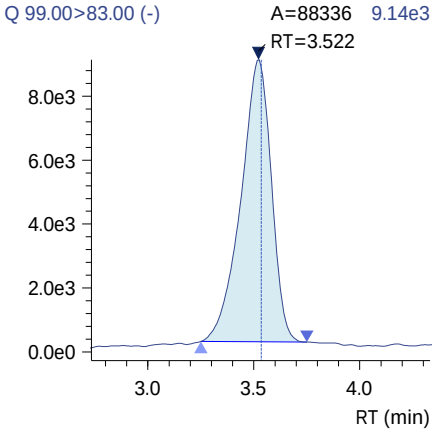
EQ2400432-001

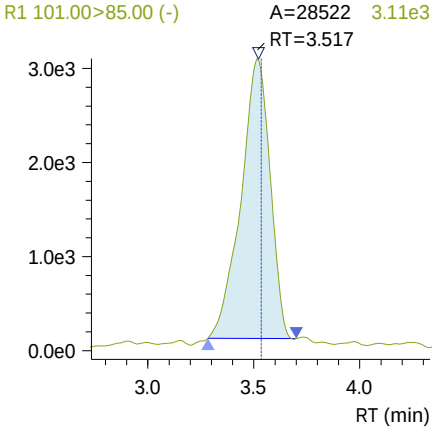
Sample ID: EQ2400432-001
Date Acquired: 5/2/2024 3:28:23 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-012.lcd
Vial: 19 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.522	88336	351546	1.6128	ng/mL	101.00 >85.00	32.29	22.85 -42.43
Sodium Perchlorate -18O4_IS	Auto	3.516	351546	351546	1.0000	ng/mL	----	----	

Perchlorate

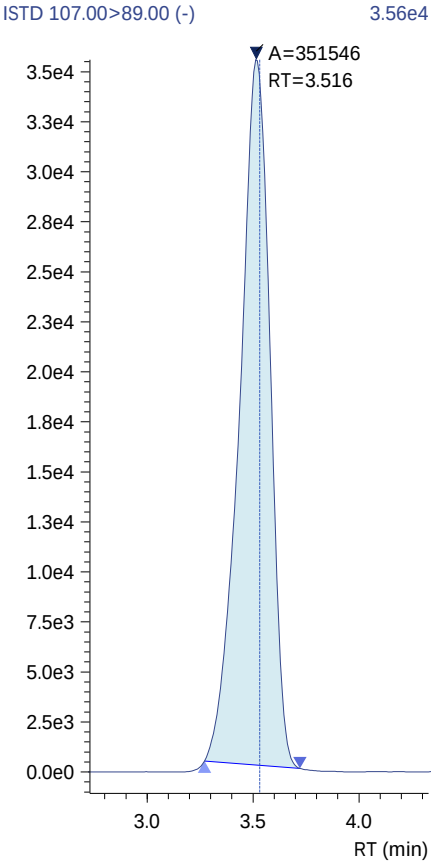
Conc 1.6128
R#1 32.29 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/3/2024 12:24:47 PM

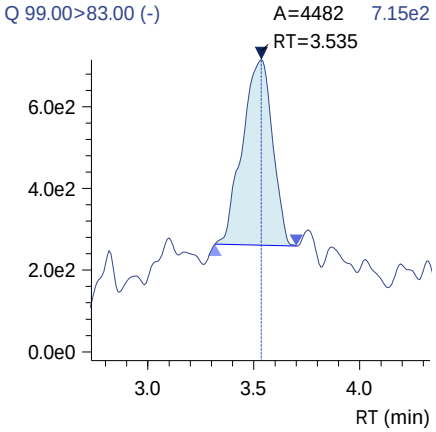
EQ2400432-002

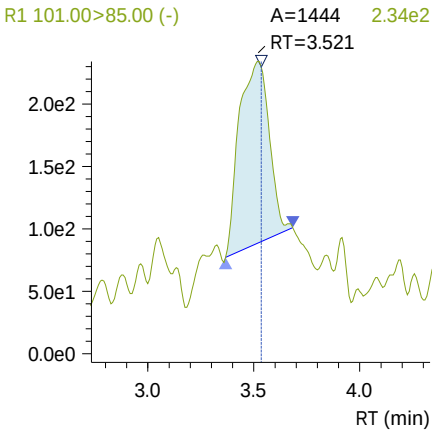
Sample ID: EQ2400432-002
Date Acquired: 5/2/2024 3:33:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-013.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.535	4482	351161	0.0819	ng/mL	101.00 >85.00	32.22	22.85 -42.43
Sodium Perchlorate -18O4_IS	Auto	3.517	351161	351161	1.0000	ng/mL	----	----	

Perchlorate

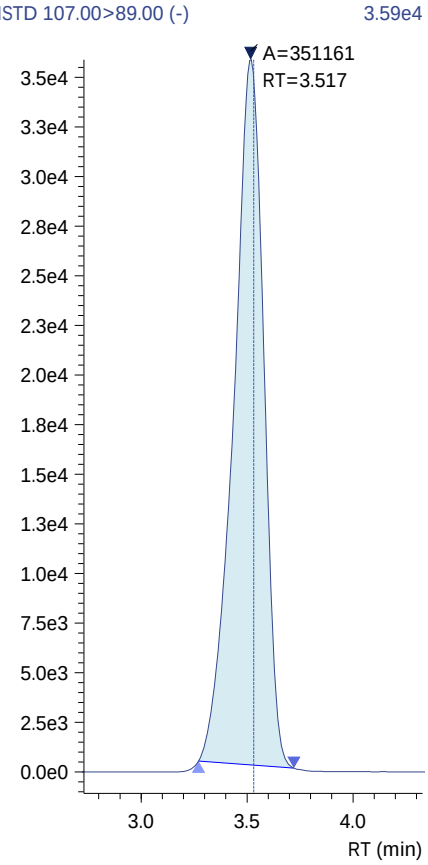
Conc 0.0819
R#1 32.22 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/3/2024 8:34:45 AM

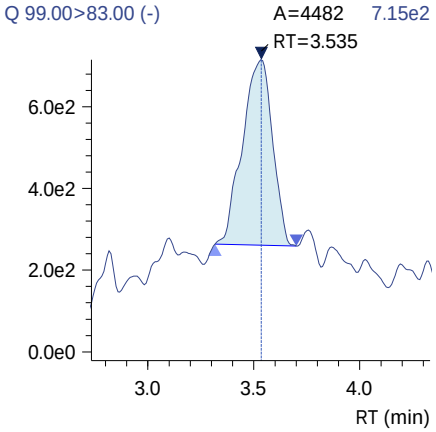
EQ2400432-002

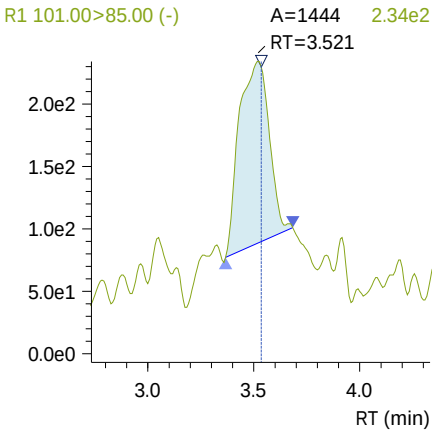
Sample ID: EQ2400432-002
Date Acquired: 5/2/2024 3:33:57 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-013.lcd
Vial: 20 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.535	4482	351161	0.0819	ng/mL	101.00 >85.00	32.22	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.517	351161	351161	1.0000	ng/mL	----	----	

Perchlorate

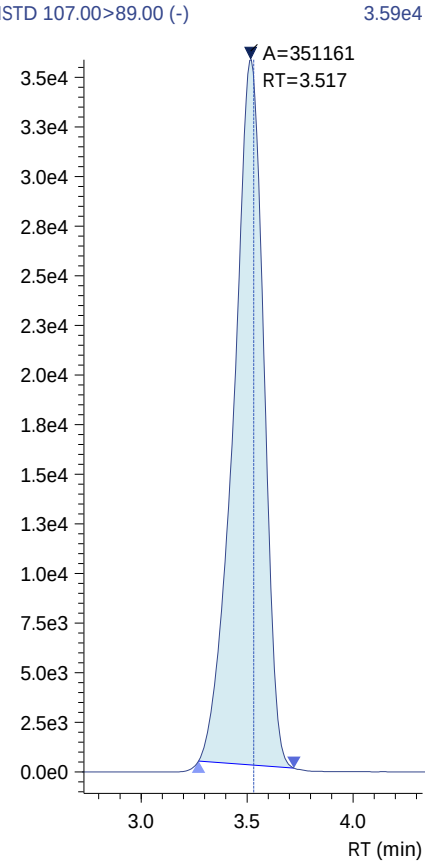
Conc 0.0819
R#1 32.22 (34.10)





Sodium Perchlorate-18O4_IS

Conc 1.0000



Insight Report

Printed at 5/3/2024 8:34:45 AM

CCV

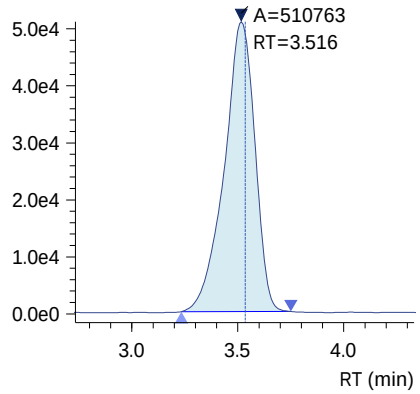
Sample ID: CCV
Date Acquired: 5/2/2024 3:39:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-014.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.516	510763	314177	10.4 344	ng/mL	101.00 >85.00	32.25	26.31 -43.47
Sodium Perchlorate -18O4_IS	Auto	3.515	314177	314177	1.0000	ng/mL	----	----	

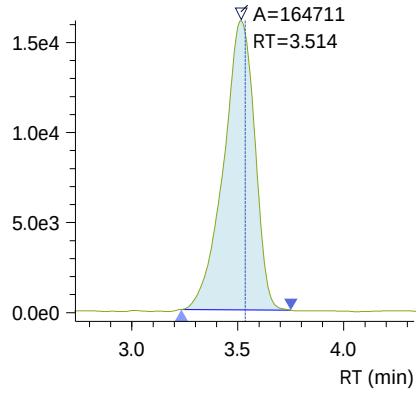
Perchlorate

Conc 10.4344
R#1 32.25 (34.10)

Q 99.00>83.00 (-) 5.13e4



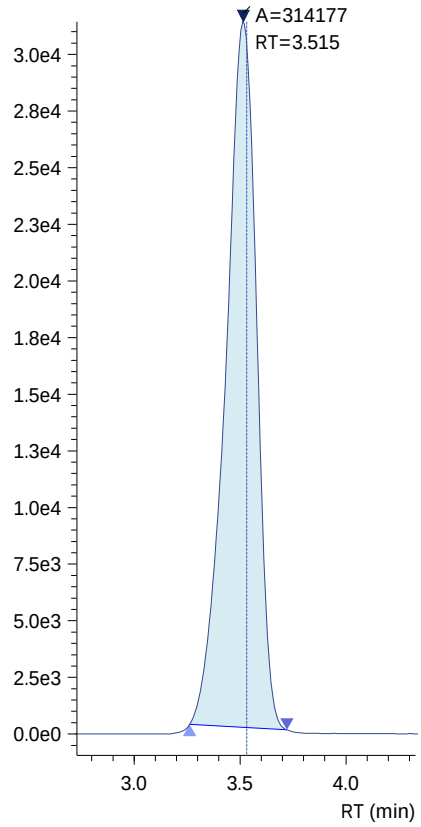
R1 101.00>85.00 (-) 1.62e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.14e4



Insight Report

Printed at 5/3/2024 12:24:47 PM

CCV

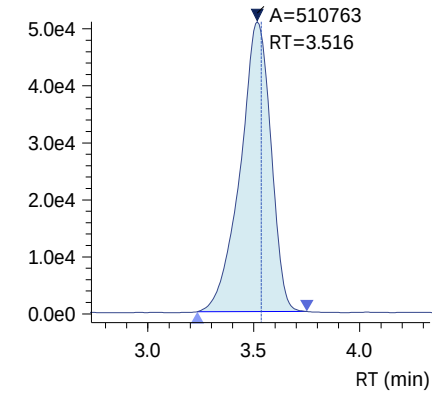
Sample ID: CCV
Date Acquired: 5/2/2024 3:39:32 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-014.lcd
Vial: 13 | Inj. Volume: 10.0000uL | Tray: 1

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	Auto	3.516	510763	314177	10.4 344	ng/mL	101.00 >85.00	32.25	22.85 -42.43
Sodium Perchlorate -18O4_IS	Auto	3.515	314177	314177	1.0000	ng/mL	----	----	

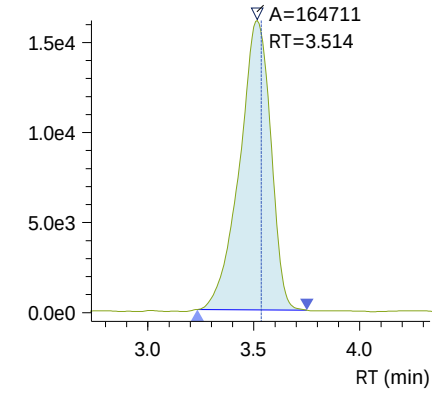
Perchlorate

Conc 10.4344
R#1 32.25 (34.10)

Q 99.00>83.00 (-) 5.13e4



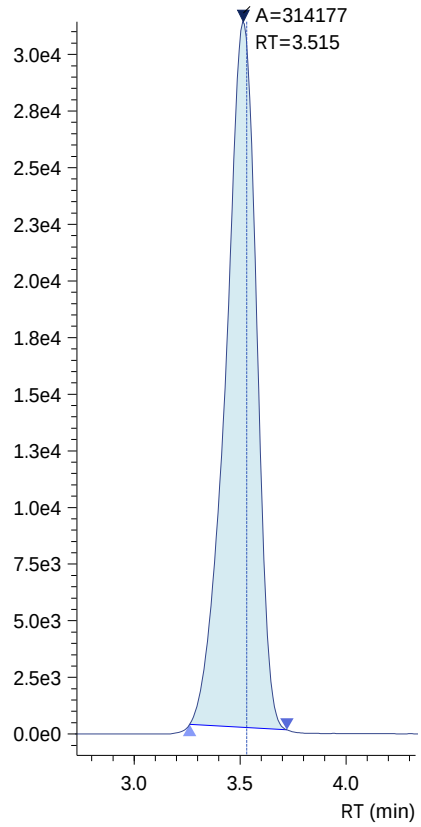
R1 101.00>85.00 (-) 1.62e4



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.14e4



Insight Report

Printed at 5/3/2024 8:34:45 AM

IB

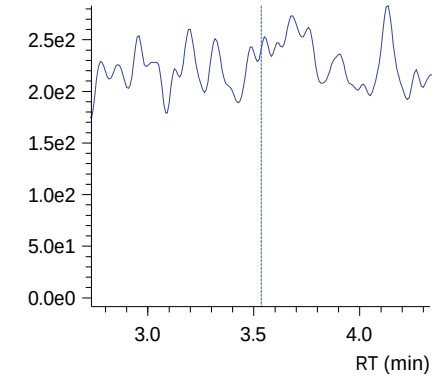
Sample ID: IB
Date Acquired: 5/2/2024 3:45:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-015.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	305235	----	ng/mL	101.00 >85.00	0.00	26.31 -43.47
Sodium Perchlorate-18O4_IS	Auto	3.515	305235	305235	1.0000	ng/mL	----	----	

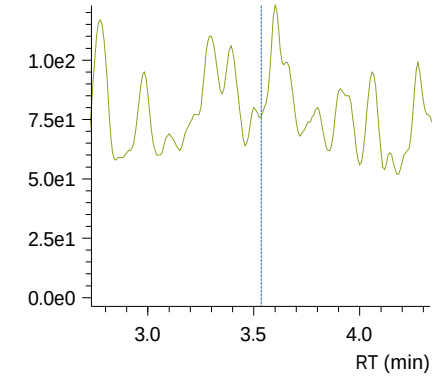
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.83e2



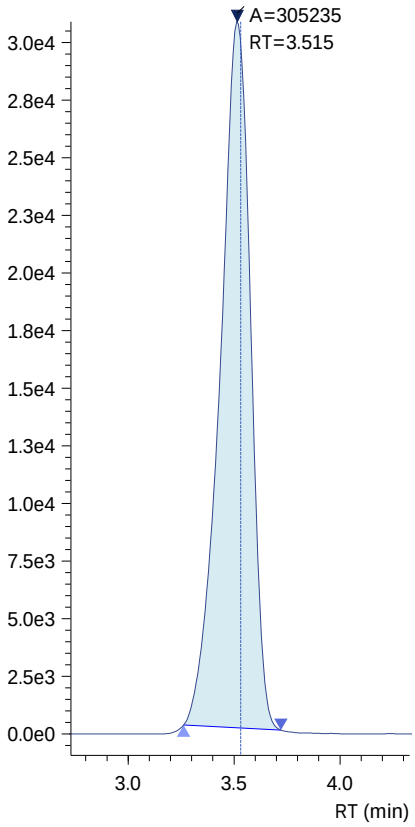
R1 101.00>85.00 (-) 1.23e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.09e4



Insight Report

Printed at 5/3/2024 12:24:47 PM

IB

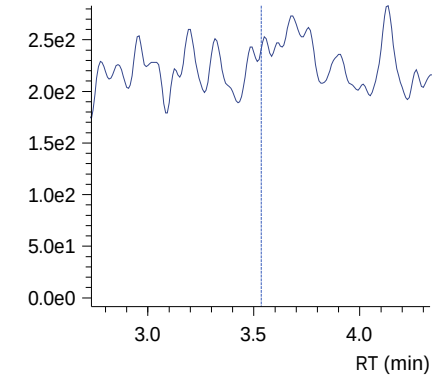
Sample ID: IB
Date Acquired: 5/2/2024 3:45:02 PM
Acquired by: System Administrator
Data File: I:\LCMS01\DATA\20240502\20240502-015.lcd
Vial: 1 | Inj. Volume: 10.0000uL | Tray: 0

Name	Mode ID	Found RT	Area	ISTD Area	Conc.	Unit	Ref 1 m/z	Ref 1 Actual Ratio	Comment 1
Perchlorate	ND(W/B)	----	----	305235	----	ng/mL	101.00 >85.00	0.00	22.85 -42.43
Sodium Perchlorate-18O4_IS	Auto	3.515	305235	305235	1.0000	ng/mL	----	----	

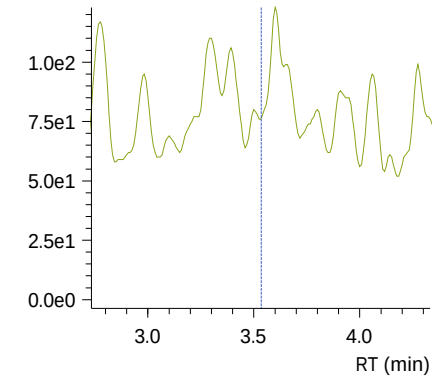
Perchlorate

Conc ----
R#1 0.00 (34.10)

Q 99.00>83.00 (-) 2.83e2



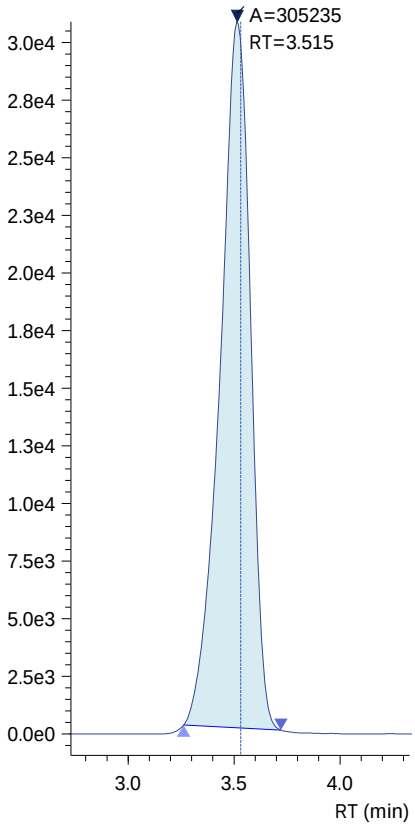
R1 101.00>85.00 (-) 1.23e2



Sodium Perchlorate-18O4_IS

Conc 1.0000

ISTD 107.00>89.00 (-) 3.09e4



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WorkOrder: HS24050146

GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Bhate Environmental Associates, Inc.

Marcia Olive
445 Union Blvd Ste 129
Lakewood CO 80228

11-Jun-2024

WorkOrder: HS24050146

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ALS WO# HS24050146

HS24050146 GROUNDWATER TREATMENT PLANT BIWEEKLY SAMPLES Final

ALS WO# HS24050146

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May 08, 2024

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

Work Order: **HS24050146**

Laboratory Results for: **GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES**

Dear Marcia Olive,

ALS Environmental received 2 sample(s) on May 02, 2024 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
Luis.Aguilar

ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Work Order: HS24050146

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS24050146-01	LH18/24-SP650_050124	Water		01-May-2024 13:00	02-May-2024 09:45	☐
HS24050146-02	Trip Blank	Water	CG-111123-471	01-May-2024 13:00	02-May-2024 09:45	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc. **CASE NARRATIVE**
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Work Order: HS24050146

Work Order Comments

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

GCMS Volatiles by Method SW8260

Batch ID: R466173

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

WetChemistry by Method SW9056

Batch ID: R465852

Sample ID: HS24041782-08MS

• MS and MSD are for an unrelated sample (Sulfate)

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES WorkOrder:HS24050146

Sample ID: LH18/24-SP650_050124 Lab ID:HS24050146-01

Collection Date: 01-May-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	07-May-2024 20:22
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 20:22
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	07-May-2024 20:22
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	07-May-2024 20:22
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	07-May-2024 20:22
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	07-May-2024 20:22
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 20:22
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 20:22
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	07-May-2024 20:22
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	07-May-2024 20:22
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 20:22
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	07-May-2024 20:22
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	07-May-2024 20:22
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 20:22
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 20:22
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 20:22
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	07-May-2024 20:22
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	07-May-2024 20:22
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES WorkOrder:HS24050146

Sample ID: LH18/24-SP650_050124 Lab ID:HS24050146-01

Collection Date: 01-May-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
cis-1,2-Dichloroethene	**2.0**		**0.20**	**1.0**	**1.0**	**ug/L**	1	07-May-2024 20:22
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	07-May-2024 20:22
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	07-May-2024 20:22
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	07-May-2024 20:22
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 20:22
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
Trichlorofluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 20:22
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 20:22
Surr: 1,2-Dichloroethane-d4	*109*			**0**	*81-118*	*%REC*	*1*	*07-May-2024 20:22*
Surr: 4-Bromofluorobenzene	*103*			**0**	*85-114*	*%REC*	*1*	*07-May-2024 20:22*
Surr: Dibromofluoromethane	*104*			**0**	*80-119*	*%REC*	*1*	*07-May-2024 20:22*
Surr: Toluene-d8	*108*			**0**	*89-112*	*%REC*	*1*	*07-May-2024 20:22*
ANIONS BY SW9056A		**Method:SW9056**						Analyst: TH
Chloride	**872**		**4.00**	**5.00**	**10.0**	**mg/L**	20	03-May-2024 15:37
Sulfate	**40.9**		**0.200**	**0.250**	**0.500**	**mg/L**	1	03-May-2024 15:31

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

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ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES WorkOrder:HS24050146

Sample ID: Trip Blank Lab ID:HS24050146-02

Collection Date: 01-May-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C	**Method:SW8260**							Analyst: TS
1,1,1,2-Tetrachloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
1,1,1-Trichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
1,1,2,2-Tetrachloroethane	1.0	U	0.50	1.0	1.0	ug/L	1	07-May-2024 18:13
1,1,2-Trichloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
1,1-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
1,1-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
1,1-Dichloropropene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
1,2,3-Trichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 18:13
1,2,3-Trichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	07-May-2024 18:13
1,2,4-Trichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	07-May-2024 18:13
1,2,4-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
1,2-Dibromo-3-chloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
1,2-Dibromoethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
1,2-Dichlorobenzene	1.0	U	0.50	1.0	1.0	ug/L	1	07-May-2024 18:13
1,2-Dichloroethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
1,2-Dichloropropane	1.0	U	0.50	1.0	1.0	ug/L	1	07-May-2024 18:13
1,3,5-Trimethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
1,3-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 18:13
1,3-Dichloropropane	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
1,4-Dichlorobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 18:13
2,2-Dichloropropane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
2-Butanone	1.0	U	0.50	1.0	2.0	ug/L	1	07-May-2024 18:13
2-Chlorotoluene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
2-Hexanone	1.0	U	1.0	1.0	2.0	ug/L	1	07-May-2024 18:13
4-Chlorotoluene	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 18:13
4-Isopropyltoluene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
4-Methyl-2-pentanone	1.0	U	0.70	1.0	2.0	ug/L	1	07-May-2024 18:13
Acetone	1.0	U	0.40	1.0	2.0	ug/L	1	07-May-2024 18:13
Benzene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
Bromobenzene	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 18:13
Bromochloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
Bromodichloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
Bromoform	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 18:13
Bromomethane	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 18:13
Carbon disulfide	1.0	U	0.60	1.0	2.0	ug/L	1	07-May-2024 18:13
Carbon tetrachloride	1.0	U	0.50	1.0	1.0	ug/L	1	07-May-2024 18:13
Chlorobenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
Chloroethane	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
Chloroform	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc. **ANALYTICAL REPORT**

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES WorkOrder:HS24050146

Sample ID: Trip Blank Lab ID:HS24050146-02

Collection Date: 01-May-2024 13:00 Matrix:Water

ANALYSES	RESULT	QUAL	DL	LOD	LOQ	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES ORGANICS BY METHOD 8260C		**Method:SW8260**						Analyst: TS
Chloromethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
cis-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
cis-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
Dibromochloromethane	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
Dibromomethane	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
Dichlorodifluoromethane	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
Ethylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
Hexachlorobutadiene	1.0	U	1.0	1.0	1.0	ug/L	1	07-May-2024 18:13
Isopropylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
m,p-Xylene	1.0	U	0.50	1.0	2.0	ug/L	1	07-May-2024 18:13
Methylene chloride	1.0	U	0.40	1.0	2.0	ug/L	1	07-May-2024 18:13
n-Butylbenzene	1.0	U	0.40	1.0	1.0	ug/L	1	07-May-2024 18:13
n-Propylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
Naphthalene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
o-Xylene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
sec-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
Styrene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
tert-Butylbenzene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
Tetrachloroethene	1.0	U	0.30	1.0	1.0	ug/L	1	07-May-2024 18:13
Toluene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
trans-1,2-Dichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
trans-1,3-Dichloropropene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
Trichloroethene	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
Trichlorofluoromethane	**2.6**		**0.30**	**1.0**	**1.0**	**ug/L**	1	07-May-2024 18:13
Vinyl chloride	1.0	U	0.20	1.0	1.0	ug/L	1	07-May-2024 18:13
Surr: 1,2-Dichloroethane-d4	*107*			**0**	*81-118*	*%REC*	*1*	*07-May-2024 18:13*
Surr: 4-Bromofluorobenzene	*102*			**0**	*85-114*	*%REC*	*1*	*07-May-2024 18:13*
Surr: Dibromofluoromethane	*101*			**0**	*80-119*	*%REC*	*1*	*07-May-2024 18:13*
Surr: Toluene-d8	*109*			**0**	*89-112*	*%REC*	*1*	*07-May-2024 18:13*

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24050146

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R465852 (0)	**Test Name :** ANIONS BY SW9056A				**Matrix:** Water	
HS24050146-01	LH18/24-SP650_050124	01 May 2024 13:00			03 May 2024 15:37	20
HS24050146-01	LH18/24-SP650_050124	01 May 2024 13:00			03 May 2024 15:31	1
Batch ID: R466173 (0)	**Test Name :** VOLATILES ORGANICS BY METHOD 8260C				**Matrix:** Water	
HS24050146-01	LH18/24-SP650_050124	01 May 2024 13:00			07 May 2024 20:22	1
HS24050146-02	Trip Blank	01 May 2024 13:00			07 May 2024 18:13	1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24050146

QC BATCH REPORT

Batch ID: R466173 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240507** Units: **ug/L** Analysis Date: **07-May-2024 17:30**
Client ID: Run ID: **VOA9_466173** SeqNo: **7998027** 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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24050146

QC BATCH REPORT

Batch ID: R466173 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MBLK Sample ID: **VBLKW-240507** Units: **ug/L** Analysis Date: **07-May-2024 17:30**
Client ID: Run ID: **VOA9_466173** SeqNo: **7998027** 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	*52.71*	*35*	*50*	*0*	*105*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*52.04*	*35*	*50*	*0*	*104*	*85 - 114*				
Surr: Dibromofluoromethane	*50.58*	*35*	*50*	*0*	*101*	*80 - 119*				
Surr: Toluene-d8	*54.64*	*35*	*50*	*0*	*109*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24050146

QC BATCH REPORT

Batch ID: R466173 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

LCS Sample ID: **VLCSW-240507** Units: **ug/L** Analysis Date: **07-May-2024 16:47**
Client ID: Run ID: **VOA9_466173** SeqNo: **7998026** 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	21.8	1.0	20	0	109	78 - 124			
1,1,1-Trichloroethane	22.64	1.0	20	0	113	74 - 131			
1,1,2,2-Tetrachloroethane	22.38	1.0	20	0	112	71 - 121			
1,1,2-Trichloroethane	21.38	1.0	20	0	107	80 - 119			
1,1-Dichloroethane	22.83	1.0	20	0	114	77 - 125			
1,1-Dichloroethene	23.44	1.0	20	0	117	71 - 131			
1,1-Dichloropropene	21.47	1.0	20	0	107	78 - 125			
1,2,3-Trichlorobenzene	22.58	1.0	20	0	113	69 - 129			
1,2,3-Trichloropropane	20.73	1.0	20	0	104	73 - 122			
1,2,4-Trichlorobenzene	23.35	1.0	20	0	117	69 - 130			
1,2,4-Trimethylbenzene	24.16	1.0	20	0	121	76 - 124			
1,2-Dibromo-3-chloropropane	19.1	1.0	20	0	95.5	62 - 128			
1,2-Dibromoethane	22.18	1.0	20	0	111	77 - 121			
1,2-Dichlorobenzene	22.87	1.0	20	0	114	80 - 119			
1,2-Dichloroethane	20.96	1.0	20	0	105	73 - 128			
1,2-Dichloropropane	21.57	1.0	20	0	108	78 - 122			
1,3,5-Trimethylbenzene	23.79	1.0	20	0	119	75 - 124			
1,3-Dichlorobenzene	22.14	1.0	20	0	111	80 - 119			
1,3-Dichloropropane	21.79	1.0	20	0	109	80 - 119			
1,4-Dichlorobenzene	22.75	1.0	20	0	114	79 - 118			
2,2-Dichloropropane	21.1	1.0	20	0	105	60 - 139			
2-Butanone	41.2	2.0	40	0	103	56 - 143			
2-Chlorotoluene	23.1	1.0	20	0	116	79 - 122			
2-Hexanone	40.56	2.0	40	0	101	57 - 139			
4-Chlorotoluene	23.01	1.0	20	0	115	78 - 122			
4-Isopropyltoluene	25.11	1.0	20	0	126	77 - 127			
4-Methyl-2-pentanone	42.89	2.0	40	0	107	67 - 130			
Acetone	38.36	2.0	40	0	95.9	39 - 160			
Benzene	21.57	1.0	20	0	108	79 - 120			
Bromobenzene	22.15	1.0	20	0	111	80 - 120			
Bromochloromethane	22.65	1.0	20	0	113	78 - 123			
Bromodichloromethane	21.6	1.0	20	0	108	79 - 125			
Bromoform	20.71	1.0	20	0	104	66 - 130			
Bromomethane	27.66	1.0	20	0	138	53 - 141			

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24050146

QC BATCH REPORT

Batch ID: R466173 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

LCS Sample ID: **VLCSW-240507** Units: **ug/L** Analysis Date: **07-May-2024 16:47**
Client ID: Run ID: **VOA9_466173** SeqNo: **7998026** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	46.13	2.0	40	0	115	64 - 133				
Carbon tetrachloride	21.85	1.0	20	0	109	72 - 136				
Chlorobenzene	21.39	1.0	20	0	107	82 - 118				
Chloroethane	22.02	1.0	20	0	110	60 - 138				
Chloroform	21.42	1.0	20	0	107	79 - 124				
Chloromethane	23.81	1.0	20	0	119	50 - 139				
cis-1,2-Dichloroethene	22.21	1.0	20	0	111	78 - 123				
cis-1,3-Dichloropropene	21.52	1.0	20	0	108	75 - 124				
Dibromochloromethane	21.31	1.0	20	0	107	74 - 126				
Dibromomethane	21.01	1.0	20	0	105	79 - 123				
Dichlorodifluoromethane	22.96	1.0	20	0	115	32 - 152				
Ethylbenzene	22.64	1.0	20	0	113	79 - 121				
Hexachlorobutadiene	23.22	1.0	20	0	116	66 - 134				
Isopropylbenzene	24.4	1.0	20	0	122	72 - 131				
m,p-Xylene	47.64	2.0	40	0	119	80 - 121				
Methylene chloride	22.43	2.0	20	0	112	74 - 124				
Naphthalene	21.89	1.0	20	0	109	61 - 128				
n-Butylbenzene	23.04	1.0	20	0	115	75 - 128				
n-Propylbenzene	24.66	1.0	20	0	123	76 - 126				
o-Xylene	23.65	1.0	20	0	118	78 - 122				
sec-Butylbenzene	24.69	1.0	20	0	123	77 - 126				
Styrene	24.17	1.0	20	0	121	78 - 123				
tert-Butylbenzene	24.53	1.0	20	0	123	78 - 124				
Tetrachloroethene	23.39	1.0	20	0	117	74 - 129				
Toluene	23.09	1.0	20	0	115	80 - 121				
trans-1,2-Dichloroethene	23.05	1.0	20	0	115	75 - 124				
trans-1,3-Dichloropropene	21.09	1.0	20	0	105	73 - 127				
Trichloroethene	22.93	1.0	20	0	115	79 - 123				
Trichlorofluoromethane	22.71	1.0	20	0	114	65 - 141				
Vinyl chloride	22.84	1.0	20	0	114	58 - 137				
Surr: 1,2-Dichloroethane-d4	*50.96*	*35*	*50*	*0*	*102*	*81 - 118*				
Surr: 4-Bromofluorobenzene	*54.26*	*35*	*50*	*0*	*109*	*85 - 114*				
Surr: Dibromofluoromethane	*51.74*	*35*	*50*	*0*	*103*	*80 - 119*				
Surr: Toluene-d8	*54.81*	*35*	*50*	*0*	*110*	*89 - 112*				

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24050146

QC BATCH REPORT

Batch ID: R466173 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MS Sample ID: **HS24041977-09MS** Units: **ug/L** Analysis Date: **07-May-2024 18:56**
Client ID: Run ID: **VOA9_466173** SeqNo: **7998031** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1,2-Tetrachloroethane	18.25	1.0	20	0	91.3	78 - 124			
1,1,1-Trichloroethane	19.15	1.0	20	0	95.7	74 - 131			
1,1,2,2-Tetrachloroethane	17.96	1.0	20	0	89.8	71 - 121			
1,1,2-Trichloroethane	17.72	1.0	20	0	88.6	80 - 119			
1,1-Dichloroethane	19.55	1.0	20	0	97.8	77 - 125			
1,1-Dichloroethene	20.27	1.0	20	0	101	71 - 131			
1,1-Dichloropropene	19.23	1.0	20	0	96.2	78 - 125			
1,2,3-Trichlorobenzene	17.02	1.0	20	0	85.1	69 - 129			
1,2,3-Trichloropropane	16.39	1.0	20	0	82.0	73 - 122			
1,2,4-Trichlorobenzene	17.97	1.0	20	0	89.8	69 - 130			
1,2,4-Trimethylbenzene	20.6	1.0	20	0	103	76 - 124			
1,2-Dibromo-3-chloropropane	14.39	1.0	20	0	72.0	62 - 128			
1,2-Dibromoethane	17.91	1.0	20	0	89.5	77 - 121			
1,2-Dichlorobenzene	19.02	1.0	20	0	95.1	80 - 119			
1,2-Dichloroethane	18.18	1.0	20	0	90.9	73 - 128			
1,2-Dichloropropane	19.15	1.0	20	0	95.7	78 - 122			
1,3,5-Trimethylbenzene	20.31	1.0	20	0	102	75 - 124			
1,3-Dichlorobenzene	18.63	1.0	20	0	93.1	80 - 119			
1,3-Dichloropropane	18.26	1.0	20	0	91.3	80 - 119			
1,4-Dichlorobenzene	19.12	1.0	20	0	95.6	79 - 118			
2,2-Dichloropropane	18.83	1.0	20	0	94.1	60 - 139			
2-Butanone	32.54	2.0	40	0	81.3	56 - 143			
2-Chlorotoluene	18.76	1.0	20	0	93.8	79 - 122			
2-Hexanone	30.64	2.0	40	0	76.6	57 - 139			
4-Chlorotoluene	19.62	1.0	20	0	98.1	78 - 122			
4-Isopropyltoluene	20.85	1.0	20	0	104	77 - 127			
4-Methyl-2-pentanone	32.95	2.0	40	0	82.4	67 - 130			
Acetone	28.88	2.0	40	0	72.2	39 - 160			
Benzene	18.77	1.0	20	0	93.9	79 - 120			
Bromobenzene	18.27	1.0	20	0	91.4	80 - 120			
Bromochloromethane	19.25	1.0	20	0	96.3	78 - 123			
Bromodichloromethane	17.68	1.0	20	0	88.4	79 - 125			
Bromoform	16.09	1.0	20	0	80.4	66 - 130			
Bromomethane	26.03	1.0	20	0	130	53 - 141			

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24050146

QC BATCH REPORT

Batch ID: R466173 (0) **Instrument: VOA9** **Method: VOLATILES ORGANICS BY METHOD 8260C**

MS Sample ID: **HS24041977-09MS** Units: **ug/L** Analysis Date: **07-May-2024 18:56**
Client ID: Run ID: **VOA9_466173** SeqNo: **7998031** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Carbon disulfide	39.78	2.0	40	0	99.5	64 - 133			
Carbon tetrachloride	19.47	1.0	20	0	97.4	72 - 136			
Chlorobenzene	18.3	1.0	20	0	91.5	82 - 118			
Chloroethane	20.24	1.0	20	0	101	60 - 138			
Chloroform	18.11	1.0	20	0	90.6	79 - 124			
Chloromethane	22.05	1.0	20	0	110	50 - 139			
cis-1,2-Dichloroethene	18.82	1.0	20	0	94.1	78 - 123			
cis-1,3-Dichloropropene	17.03	1.0	20	0	85.2	75 - 124			
Dibromochloromethane	17.27	1.0	20	0	86.3	74 - 126			
Dibromomethane	17.58	1.0	20	0	87.9	79 - 123			
Dichlorodifluoromethane	21.93	1.0	20	0	110	32 - 152			
Ethylbenzene	19.38	1.0	20	0	96.9	79 - 121			
Hexachlorobutadiene	18.69	1.0	20	0	93.4	66 - 134			
Isopropylbenzene	20.75	1.0	20	0	104	72 - 131			
m,p-Xylene	40.41	2.0	40	0	101	80 - 121			
Methylene chloride	17.41	2.0	20	0	87.1	74 - 124			
Naphthalene	15.87	1.0	20	0	79.4	61 - 128			
n-Butylbenzene	19.48	1.0	20	0	97.4	75 - 128			
n-Propylbenzene	20.89	1.0	20	0	104	76 - 126			
o-Xylene	20.01	1.0	20	0	100	78 - 122			
sec-Butylbenzene	20.84	1.0	20	0	104	77 - 126			
Styrene	20.03	1.0	20	0	100	78 - 123			
tert-Butylbenzene	20.73	1.0	20	0	104	78 - 124			
Tetrachloroethene	20.69	1.0	20	0	103	74 - 129			
Toluene	19.9	1.0	20	0	99.5	80 - 121			
trans-1,2-Dichloroethene	20.14	1.0	20	0	101	75 - 124			
trans-1,3-Dichloropropene	16.86	1.0	20	0	84.3	73 - 127			
Trichloroethene	28.04	1.0	20	7.439	103	79 - 123			
Trichlorofluoromethane	20.68	1.0	20	0	103	65 - 141			
Vinyl chloride	20.92	1.0	20	0	105	58 - 137			
Surr: 1,2-Dichloroethane-d4	*52.48*	*35*	*50*	*0*	*105*	*81 - 118*			
Surr: 4-Bromofluorobenzene	*54.32*	*35*	*50*	*0*	*109*	*85 - 114*			
Surr: Dibromofluoromethane	*51.26*	*35*	*50*	*0*	*103*	*80 - 119*			
Surr: Toluene-d8	*55.04*	*35*	*50*	*0*	*110*	*89 - 112*			

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24050146

QC BATCH REPORT

Batch ID: R466173 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24041977-09MSD** Units: **ug/L** Analysis Date: **07-May-2024 19:17**
Client ID: Run ID: **VOA9_466173** SeqNo: **7998032** 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	17.87	1.0	20	0	89.4	78 - 124	18.25	2.12	20	
1,1,1-Trichloroethane	18.7	1.0	20	0	93.5	74 - 131	19.15	2.38	20	
1,1,2,2-Tetrachloroethane	17.73	1.0	20	0	88.7	71 - 121	17.96	1.25	20	
1,1,2-Trichloroethane	17.59	1.0	20	0	87.9	80 - 119	17.72	0.724	20	
1,1-Dichloroethane	18.89	1.0	20	0	94.5	77 - 125	19.55	3.42	20	
1,1-Dichloroethene	19.29	1.0	20	0	96.5	71 - 131	20.27	4.92	20	
1,1-Dichloropropene	17.93	1.0	20	0	89.6	78 - 125	19.23	7.03	20	
1,2,3-Trichlorobenzene	17.43	1.0	20	0	87.1	69 - 129	17.02	2.41	20	
1,2,3-Trichloropropane	16.69	1.0	20	0	83.4	73 - 122	16.39	1.78	20	
1,2,4-Trichlorobenzene	18.18	1.0	20	0	90.9	69 - 130	17.97	1.2	20	
1,2,4-Trimethylbenzene	19.87	1.0	20	0	99.3	76 - 124	20.6	3.61	20	
1,2-Dibromo-3-chloropropane	16.05	1.0	20	0	80.3	62 - 128	14.39	10.9	20	
1,2-Dibromoethane	18.38	1.0	20	0	91.9	77 - 121	17.91	2.62	20	
1,2-Dichlorobenzene	18.46	1.0	20	0	92.3	80 - 119	19.02	3	20	
1,2-Dichloroethane	17.95	1.0	20	0	89.7	73 - 128	18.18	1.27	20	
1,2-Dichloropropane	18.3	1.0	20	0	91.5	78 - 122	19.15	4.52	20	
1,3,5-Trimethylbenzene	19.52	1.0	20	0	97.6	75 - 124	20.31	3.99	20	
1,3-Dichlorobenzene	17.73	1.0	20	0	88.7	80 - 119	18.63	4.91	20	
1,3-Dichloropropane	18.38	1.0	20	0	91.9	80 - 119	18.26	0.624	20	
1,4-Dichlorobenzene	18.72	1.0	20	0	93.6	79 - 118	19.12	2.08	20	
2,2-Dichloropropane	18.16	1.0	20	0	90.8	60 - 139	18.83	3.63	20	
2-Butanone	34.68	2.0	40	0	86.7	56 - 143	32.54	6.36	20	
2-Chlorotoluene	18.49	1.0	20	0	92.5	79 - 122	18.76	1.42	20	
2-Hexanone	33.94	2.0	40	0	84.9	57 - 139	30.64	10.2	20	
4-Chlorotoluene	18.79	1.0	20	0	94.0	78 - 122	19.62	4.32	20	
4-Isopropyltoluene	20.37	1.0	20	0	102	77 - 127	20.85	2.36	20	
4-Methyl-2-pentanone	34.27	2.0	40	0	85.7	67 - 130	32.95	3.93	20	
Acetone	33.97	2.0	40	0	84.9	39 - 160	28.88	16.2	20	
Benzene	17.77	1.0	20	0	88.8	79 - 120	18.77	5.48	20	
Bromobenzene	17.71	1.0	20	0	88.6	80 - 120	18.27	3.1	20	
Bromochloromethane	19.03	1.0	20	0	95.2	78 - 123	19.25	1.16	20	
Bromodichloromethane	17.49	1.0	20	0	87.5	79 - 125	17.68	1.08	20	
Bromoform	16.27	1.0	20	0	81.3	66 - 130	16.09	1.09	20	
Bromomethane	22.92	1.0	20	0	115	53 - 141	26.03	12.7	20	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24050146

QC BATCH REPORT

Batch ID: R466173 (0) **Instrument:** VOA9 **Method:** VOLATILES ORGANICS BY METHOD 8260C

MSD Sample ID: **HS24041977-09MSD** Units: **ug/L** Analysis Date: **07-May-2024 19:17**
Client ID: Run ID: **VOA9_466173** SeqNo: **7998032** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Carbon disulfide	38.26	2.0	40	0	95.6	64 - 133	39.78	3.9	20	
Carbon tetrachloride	18.05	1.0	20	0	90.2	72 - 136	19.47	7.6	20	
Chlorobenzene	17.82	1.0	20	0	89.1	82 - 118	18.3	2.67	20	
Chloroethane	20.07	1.0	20	0	100	60 - 138	20.24	0.848	20	
Chloroform	17.6	1.0	20	0	88.0	79 - 124	18.11	2.89	20	
Chloromethane	20.66	1.0	20	0	103	50 - 139	22.05	6.52	20	
cis-1,2-Dichloroethene	18.96	1.0	20	0	94.8	78 - 123	18.82	0.736	20	
cis-1,3-Dichloropropene	17.02	1.0	20	0	85.1	75 - 124	17.03	0.102	20	
Dibromochloromethane	16.98	1.0	20	0	84.9	74 - 126	17.27	1.64	20	
Dibromomethane	17.47	1.0	20	0	87.3	79 - 123	17.58	0.637	20	
Dichlorodifluoromethane	21.27	1.0	20	0	106	32 - 152	21.93	3.05	20	
Ethylbenzene	18.71	1.0	20	0	93.5	79 - 121	19.38	3.51	20	
Hexachlorobutadiene	18.86	1.0	20	0	94.3	66 - 134	18.69	0.939	20	
Isopropylbenzene	20.18	1.0	20	0	101	72 - 131	20.75	2.82	20	
m,p-Xylene	38.8	2.0	40	0	97.0	80 - 121	40.41	4.07	20	
Methylene chloride	17.11	2.0	20	0	85.6	74 - 124	17.41	1.74	20	
Naphthalene	17.03	1.0	20	0	85.1	61 - 128	15.87	7.03	20	
n-Butylbenzene	18.83	1.0	20	0	94.2	75 - 128	19.48	3.4	20	
n-Propylbenzene	19.8	1.0	20	0	99.0	76 - 126	20.89	5.33	20	
o-Xylene	19.55	1.0	20	0	97.8	78 - 122	20.01	2.33	20	
sec-Butylbenzene	19.69	1.0	20	0	98.4	77 - 126	20.84	5.68	20	
Styrene	19.68	1.0	20	0	98.4	78 - 123	20.03	1.75	20	
tert-Butylbenzene	19.41	1.0	20	0	97.0	78 - 124	20.73	6.58	20	
Tetrachloroethene	19.74	1.0	20	0	98.7	74 - 129	20.69	4.73	20	
Toluene	19.01	1.0	20	0	95.0	80 - 121	19.9	4.57	20	
trans-1,2-Dichloroethene	18.82	1.0	20	0	94.1	75 - 124	20.14	6.77	20	
trans-1,3-Dichloropropene	16.56	1.0	20	0	82.8	73 - 127	16.86	1.77	20	
Trichloroethene	26.04	1.0	20	7.439	93.0	79 - 123	28.04	7.42	20	
Trichlorofluoromethane	19.69	1.0	20	0	98.4	65 - 141	20.68	4.94	20	
Vinyl chloride	20.04	1.0	20	0	100	58 - 137	20.92	4.26	20	
Surr: 1,2-Dichloroethane-d4	*52.4*	*35*	*50*	*0*	*105*	*81 - 118*	*52.48*	*0.136*	*20*	
Surr: 4-Bromofluorobenzene	*55.29*	*35*	*50*	*0*	*111*	*85 - 114*	*54.32*	*1.76*	*20*	
Surr: Dibromofluoromethane	*52*	*35*	*50*	*0*	*104*	*80 - 119*	*51.26*	*1.43*	*20*	
Surr: Toluene-d8	*54.93*	*35*	*50*	*0*	*110*	*89 - 112*	*55.04*	*0.202*	*20*	

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 08-May-24

Client:	Bhate Environmental Associates, Inc.
Project:	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder:	HS24050146

QC BATCH REPORT

Batch ID:	**R466173 (0)**	**Instrument:**	**VOA9**	**Method:**	**VOLATILES ORGANICS BY METHOD 8260C**

The following samples were analyzed in this batch: HS24050146-01 HS24050146-02

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ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: HS24050146

QC BATCH REPORT

Batch ID: R465852 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY SW9056A**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **03-May-2024 13:51**
Client ID: Run ID: **ICS-Integrion_465852** SeqNo: **7991543** 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: **03-May-2024 13:57**
Client ID: Run ID: **ICS-Integrion_465852** SeqNo: **7991544** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.99	0.500	20	0	99.9	80 - 120				
Sulfate	21.56	0.500	20	0	108	80 - 120				

MS Sample ID: **HS24041782-08MS** Units: **mg/L** Analysis Date: **03-May-2024 16:59**
Client ID: Run ID: **ICS-Integrion_465852** SeqNo: **7991569** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	326.9	10.0	200	137.8	94.6	80 - 120				
Sulfate	828.4	10.0	200	711.1	58.7	80 - 120				S

MSD Sample ID: **HS24041782-08MSD** Units: **mg/L** Analysis Date: **03-May-2024 17:05**
Client ID: Run ID: **ICS-Integrion_465852** SeqNo: **7991570** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	325	10.0	200	137.8	93.6	80 - 120	326.9	0.577	20	
Sulfate	830.3	10.0	200	711.1	59.6	80 - 120	828.4	0.229	20	S

The following samples were analyzed in this batch: HS24050146-01

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ALS Houston, US Date: 08-May-24

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
WorkOrder: **HS24050146**

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

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624 - 2024	31-Dec-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231 TX-C24-00130	30-Apr-2025
Utah	TX026932023-14	31-Jul-2024

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ALS Houston, US Date: 08-May-24

Sample Receipt Checklist

Work Order ID: HS24050146 **Date/Time Received:** 02-May-2024 09:45

Client Name: Bhate Environmental **Received by:** Jacob Coronado

Completed By: /S/ Jacob Coronado (eSignature) 02-May-2024 15:12 (Date/Time) **Reviewed by:** /S/ Luis.Aguilar (eSignature) 02-May-2024 19:14 (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/3.0c	ir31
Cooler(s)/Kit(s):	52077	
Date/Time sample(s) sent to storage:	05/02/2024 1513	

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:

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HS24050146

Bhate Environmental Associates, Inc.
GROUNDWATER TREATMENT PLANT BI-WEEKL

CHAIN OF CUSTODY

Name Of Lab Shipping To: ALS 10450 Stancliff Rd. Suite 210, Houston, Tx. 77099 ATTN: James Guin

Project: BHATE LONGHORN ARMY AMMN. PLANT (LHAAP) GROUNDWATER TREATMENT PLANT (GWTP) KARNACK, TEXAS	Project No. JVPCIBH.0001
Job: **GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES**	
Prepared By: Scott Beesinger	P.O Number BILL to PCI

Field Sample I.D.	Sample Matrix	Date / Time	MS / MSD	No. OF CONTAINERS	Analyses: VOC	Analyses: CHLORIDE, SULFATE	Analyses	Analyses	Analyses	Analyses	Analyses	Analyses	Analyses	Analyses	Remarks (Preservatives, etc.)	Lab I.D.#
LH18/24-SP650_050124	Water	05/01/24 / 13:00		3	3										HCL	
LH18/24-SP650_050124	Water	05/01/24 / 13:00		1		1									NONE	
Trip Blank	Water	05/01/24		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	05/01/24	13:30		5/3/24	945						

9For Lab Use Only

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

Remarks

LC
53077 2.9

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

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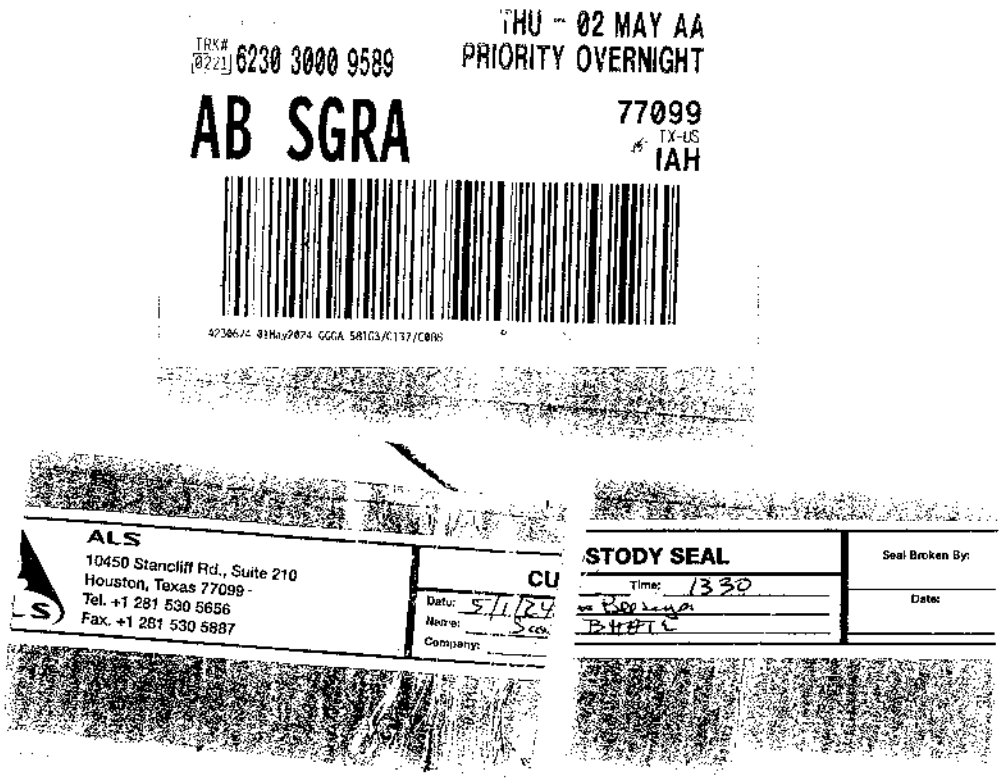

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HS24050146-MSVOA-SW8260

ALS WO# HS24050146

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right partner.

Form 1

Organic Analysis Data Sheet

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24050146

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Workorder: HS24050146

Volatiles by EPA Volatiles Organics by Method 8260C

LH18/24-SP650_050124	Collected	Received	Matrix	Basis
HS24050146-01	05/01/24 13:00	05/02/24 09:45	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	05/07/24 20:22	VOA9_466173	U050725.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	05/07/24 20:22	VOA9_466173	U050725.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Workorder: **HS24050146**

Volatiles by EPA Volatiles Organics by Method 8260C

LH18/24-SP650_050124	Collected	Received	Matrix	Basis
HS24050146-01	05/01/24 13:00	05/02/24 09:45	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
cis-1,2-Dichloroethene	ug/L	2.0		0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Trichlorofluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 20:22	VOA9_466173	U050725.D

Form 1 - Organic Analysis Data Sheet

Client Bhate Environmental Associates, Inc.

Project GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder **HS24050146**

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank	Collected	Received	Matrix	Basis
HS24050146-02	05/01/24 13:00	05/02/24 09:45	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
1,1,1,2-Tetrachloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,1,1-Trichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,1,2,2-Tetrachloroethane	ug/L	1.0	U	0.50	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,1,2-Trichloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,1-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,1-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,1-Dichloropropene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,2,3-Trichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,2,3-Trichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,2,4-Trichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,2,4-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,2-Dibromo-3-chloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,2-Dibromoethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,2-Dichlorobenzene	ug/L	1.0	U	0.50	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,2-Dichloroethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,2-Dichloropropane	ug/L	1.0	U	0.50	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,3,5-Trimethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,3-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,3-Dichloropropane	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
1,4-Dichlorobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
2,2-Dichloropropane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
2-Butanone	ug/L	2.0	U	0.50	2.0	2.0	1	05/07/24 18:13	VOA9_466173	U050719.D
2-Chlorotoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
2-Hexanone	ug/L	2.0	U	1.0	2.0	2.0	1	05/07/24 18:13	VOA9_466173	U050719.D
4-Chlorotoluene	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
4-Isopropyltoluene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
4-Methyl-2-pentanone	ug/L	2.0	U	0.70	2.0	2.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Acetone	ug/L	2.0	U	0.40	2.0	2.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Benzene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Bromobenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Bromochloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Bromodichloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Bromoform	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D

Form 1 - Organic Analysis Data Sheet

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Workorder: **HS24050146**

Volatiles by EPA Volatiles Organics by Method 8260C

Trip Blank	Collected	Received	Matrix	Basis
HS24050146-02	05/01/24 13:00	05/02/24 09:45	Water	Wet

Analyte	Units	Result	Q	DL	LOD	LOQ	DF	Analysis Date	Run ID	DataFile
Bromomethane	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Carbon disulfide	ug/L	2.0	U	0.60	2.0	2.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Carbon tetrachloride	ug/L	1.0	U	0.50	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Chlorobenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Chloroethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Chloroform	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Chloromethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
cis-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
cis-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Dibromochloromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Dibromomethane	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Dichlorodifluoromethane	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Ethylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Hexachlorobutadiene	ug/L	1.0	U	1.0	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Isopropylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
m,p-Xylene	ug/L	2.0	U	0.50	2.0	2.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Methylene chloride	ug/L	2.0	U	0.40	2.0	2.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Naphthalene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
n-Butylbenzene	ug/L	1.0	U	0.40	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
n-Propylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
o-Xylene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
sec-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Styrene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
tert-Butylbenzene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Tetrachloroethene	ug/L	1.0	U	0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Toluene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
trans-1,2-Dichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
trans-1,3-Dichloropropene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Trichloroethene	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Trichlorofluoromethane	ug/L	2.6		0.30	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D
Vinyl chloride	ug/L	1.0	U	0.20	1.0	1.0	1	05/07/24 18:13	VOA9_466173	U050719.D

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Form 2

System Monitoring Compound Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24050146

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
www.alsglobal.com

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Workorder: HS24050146

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-466173

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24041977-09MS	Aqueous	05/07/24 18:56	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U050721.D	52.48	50	105		81-118
4-Bromofluorobenzene	U050721.D	54.32	50	109		85-114
Dibromofluoromethane	U050721.D	51.26	50	103		80-119
Toluene-d8	U050721.D	55.04	50	110		89-112

BatchQC

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24041977-09MSD	Aqueous	05/07/24 19:17	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U050722.D	52.4	50	105		81-118
4-Bromofluorobenzene	U050722.D	55.29	50	111		85-114
Dibromofluoromethane	U050722.D	52	50	104		80-119
Toluene-d8	U050722.D	54.93	50	110		89-112

LH18/24-SP650_050124

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	HS24050146-01	Water	05/07/24 20:22	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U050725.D	54	50	109		81-118
4-Bromofluorobenzene	U050725.D	52	50	103		85-114
Dibromofluoromethane	U050725.D	52	50	104		80-119
Toluene-d8	U050725.D	54	50	108		89-112

Form 2 - System Monitoring Compound Recovery

Client: Bhate Environmental Associates, Inc.
Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES
Workorder: HS24050146

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-466173

Trip Blank

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
HS24050146-02	VOA9	Water	05/07/24 18:13	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U050719.D	54	50	107		81-118
4-Bromofluorobenzene	U050719.D	51	50	102		85-114
Dibromofluoromethane	U050719.D	51	50	101		80-119
Toluene-d8	U050719.D	55	50	109		89-112

VBLKW-240507

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
VBLKW-240507	VOA9	Aqueous	05/07/24 17:30	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U050717.D	52.71	50	105		81-118
4-Bromofluorobenzene	U050717.D	52.04	50	104		85-114
Dibromofluoromethane	U050717.D	50.58	50	101		80-119
Toluene-d8	U050717.D	54.64	50	109		89-112

VLCSW-240507

Lab Sample ID	Instrument ID	Matrix	Analysis Date	Conc Units	Dilution
VLCSW-240507	VOA9	Aqueous	05/07/24 16:47	%REC	1

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U050715.D	50.96	50	102		81-118
4-Bromofluorobenzene	U050715.D	54.26	50	109		85-114
Dibromofluoromethane	U050715.D	51.74	50	103		80-119
Toluene-d8	U050715.D	54.81	50	110		89-112

Form 2 - System Monitoring Compound Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	HS24050146	

Volatiles by EPA Volatiles Organics by Method 8260C

RUNID: VOA9-466173

VSTD050

		Matrix	Analysis Date	Conc Units	Dilution
Lab Sample ID	VSTD050	Aqueous	05/07/24 16:25	%REC	1
Instrument ID	VOA9				

Surrogate	FileID	Result Conc	Spike Conc	%Recovery	Q	%Recovery Limits
1,2-Dichloroethane-d4	U050714.D	50.23	50	100		80-120
4-Bromofluorobenzene	U050714.D	51.18	50	102		80-120
Dibromofluoromethane	U050714.D	50.5	50	101		80-120
Toluene-d8	U050714.D	51.11	50	102		80-120

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Form 3A

Matrix Spike/Spike Duplicate Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24050146

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

ALS Environmental–Houston Laboratory
10450 Stancliff Road, Suite 210, Houston, TX 77099
Phone (281) 530-5656 Fax (281) 530-5887
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Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder: **HS24050146**

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM: HS24041977-09MS

BatchQC (HS24041977-09)				HS24041977-09MS				HS24041977-09MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 05/07/24				Run Date: 05/07/24						
Instrument ID: VOA9				Run Time: 18:56				Run Time: 19:17						
				Data File: U050721.D				Data File: U050722.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
1,1,1,2-Tetrachloroethane	78-124	1	0	18.2527	20	91		17.8704	20	89		20	2.12	
1,1,1-Trichloroethane	74-131	1	0	19.1467	20	96		18.6962	20	94		20	2.38	
1,1,2,2-Tetrachloroethane	71-121	1	0	17.9586	20	90		17.7348	20	89		20	1.25	
1,1,2-Trichloroethane	80-119	1	0	17.7172	20	89		17.5894	20	88		20	0.724	
1,1-Dichloroethane	77-125	1	0	19.5505	20	98		18.8940	20	94		20	3.42	
1,1-Dichloroethene	71-131	1	0	20.2671	20	101		19.2934	20	96		20	4.92	
1,1-Dichloropropene	78-125	1	0	19.2339	20	96		17.9280	20	90		20	7.03	
1,2,3-Trichlorobenzene	69-129	1	0	17.0154	20	85		17.4298	20	87		20	2.41	
1,2,3-Trichloropropane	73-122	1	0	16.3918	20	82		16.6855	20	83		20	1.78	
1,2,4-Trichlorobenzene	69-130	1	0	17.9660	20	90		18.1832	20	91		20	1.2	
1,2,4-Trimethylbenzene	76-124	1	0	20.5956	20	103		19.8655	20	99		20	3.61	
1,2-Dibromo-3-chloropropane	62-128	1	0	14.3910	20	72		16.0529	20	80		20	10.9	
1,2-Dibromoethane	77-121	1	0	17.9075	20	90		18.3828	20	92		20	2.62	
1,2-Dichlorobenzene	80-119	1	0	19.0169	20	95		18.4556	20	92		20	3	
1,2-Dichloroethane	73-128	1	0	18.1786	20	91		17.9498	20	90		20	1.27	
1,2-Dichloropropane	78-122	1	0	19.1458	20	96		18.3003	20	92		20	4.52	
1,3,5-Trimethylbenzene	75-124	1	0	20.3145	20	102		19.5200	20	98		20	3.99	
1,3-Dichlorobenzene	80-119	1	0	18.6271	20	93		17.7341	20	89		20	4.91	
1,3-Dichloropropane	80-119	1	0	18.2618	20	91		18.3760	20	92		20	0.624	
1,4-Dichlorobenzene	79-118	1	0	19.1157	20	96		18.7225	20	94		20	2.08	
2,2-Dichloropropane	60-139	1	0	18.8270	20	94		18.1559	20	91		20	3.63	
2-Butanone	56-143	1	0	32.5392	40	81		34.6774	40	87		20	6.36	
2-Chlorotoluene	79-122	1	0	18.7567	20	94		18.4916	20	92		20	1.42	
2-Hexanone	57-139	1	0	30.6425	40	77		33.9436	40	85		20	10.2	
4-Chlorotoluene	78-122	1	0	19.6214	20	98		18.7923	20	94		20	4.32	
4-Isopropyltoluene	77-127	1	0	20.8549	20	104		20.3687	20	102		20	2.36	
4-Methyl-2-pentanone	67-130	1	0	32.9513	40	82		34.2729	40	86		20	3.93	
Acetone	39-160	1	0	28.8777	40	72		33.9746	40	85		20	16.2	
Benzene	79-120	1	0	18.7701	20	94		17.7685	20	89		20	5.48	
Bromobenzene	80-120	1	0	18.2721	20	91		17.7149	20	89		20	3.1	
Bromochloromethane	78-123	1	0	19.2544	20	96		19.0314	20	95		20	1.16	
Bromodichloromethane	79-125	1	0	17.6829	20	88		17.4922	20	88		20	1.08	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client: Bhate Environmental Associates, Inc.

Project: GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES

Workorder: **HS24050146**

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM: HS24041977-09MS

BatchQC (HS24041977-09)				HS24041977-09MS				HS24041977-09MSD						
Spike Matrix: Aqueous	Result Units: ug/L			Run Date: 05/07/24				Run Date: 05/07/24						
Instrument ID: VOA9				Run Time: 18:56				Run Time: 19:17						
				Data File: U050721.D				Data File: U050722.D						
Analyte	%R Limits	DF	Sample Result	MS Result	Spike Added	%R	Q	MSD Result	Spike Added	%R	Q	RPD Limit	RPD	Q
Bromoform	66-130	1	0	16.0889	20	80		16.2653	20	81		20	1.09	
Bromomethane	53-141	1	0	26.0261	20	130		22.9165	20	115		20	12.7	
Carbon disulfide	64-133	1	0	39.7818	40	100		38.2596	40	96		20	3.9	
Carbon tetrachloride	72-136	1	0	19.4748	20	97		18.0482	20	90		20	7.6	
Chlorobenzene	82-118	1	0	18.3028	20	92		17.8204	20	89		20	2.67	
Chloroethane	60-138	1	0	20.2367	20	101		20.0657	20	100		20	0.848	
Chloroform	79-124	1	0	18.1104	20	91		17.5953	20	88		20	2.89	
Chloromethane	50-139	1	0	22.0483	20	110		20.6563	20	103		20	6.52	
cis-1,2-Dichloroethene	78-123	1	0	18.8186	20	94		18.9575	20	95		20	0.736	
cis-1,3-Dichloropropene	75-124	1	0	17.0327	20	85		17.0152	20	85		20	0.102	
Dibromochloromethane	74-126	1	0	17.2659	20	86		16.9842	20	85		20	1.64	
Dibromomethane	79-123	1	0	17.5773	20	88		17.4658	20	87		20	0.637	
Dichlorodifluoromethane	32-152	1	0	21.9295	20	110		21.2698	20	106		20	3.05	
Ethylbenzene	79-121	1	0	19.3764	20	97		18.7083	20	94		20	3.51	
Hexachlorobutadiene	66-134	1	0	18.6870	20	93		18.8632	20	94		20	0.939	
Isopropylbenzene	72-131	1	0	20.7521	20	104		20.1753	20	101		20	2.82	
m,p-Xylene	80-121	1	0	40.4069	40	101		38.7959	40	97		20	4.07	
Methylene chloride	74-124	1	0	17.4135	20	87		17.1134	20	86		20	1.74	
Naphthalene	61-128	1	0	15.8709	20	79		17.0277	20	85		20	7.03	
n-Butylbenzene	75-128	1	0	19.4837	20	97		18.8332	20	94		20	3.4	
n-Propylbenzene	76-126	1	0	20.8875	20	104		19.8026	20	99		20	5.33	
o-Xylene	78-122	1	0	20.0136	20	100		19.5518	20	98		20	2.33	
sec-Butylbenzene	77-126	1	0	20.8359	20	104		19.6859	20	98		20	5.68	
Styrene	78-123	1	0	20.0260	20	100		19.6793	20	98		20	1.75	
tert-Butylbenzene	78-124	1	0	20.7309	20	104		19.4099	20	97		20	6.58	
Tetrachloroethene	74-129	1	0	20.6927	20	103		19.7362	20	99		20	4.73	
Toluene	80-121	1	0	19.8950	20	100		19.0052	20	95		20	4.57	
trans-1,2-Dichloroethene	75-124	1	0	20.1352	20	101		18.8176	20	94		20	6.77	
trans-1,3-Dichloropropene	73-127	1	0	16.8589	20	84		16.5624	20	83		20	1.77	
Trichloroethene	79-123	1	7.439	28.0442	20	103		26.0367	20	93		20	7.42	
Trichlorofluoromethane	65-141	1	0	20.6848	20	103		19.6872	20	98		20	4.94	
Vinyl chloride	58-137	1	0	20.9161	20	105		20.0434	20	100		20	4.26	

Form 3A - Matrix Spike/Spike Duplicate Recovery

Client	Bhate Environmental Associates, Inc.	Workorder	
Project	GROUNDWATER TREATMENT PLANT BI-WEEKLY SAMPLES	HS24050146	

Volatiles by EPA Volatiles Organics by Method 8260C

SAMPLENUM HS24041977-09MS

BatchQC (HS24041977-09)				HS24041977-09MS		HS24041977-09MSD		
Spike Matrix	Aqueous	Result Units	ug/L	Run Date	05/07/24	Run Date	05/07/24	
Instrument ID	VOA9			Run Time	18:56	Run Time	19:17	
				Data File	U050721.D	Data File	U050722.D	

Q - %Recovery / RPD Flag * - %Recovery / RPD Outside Limits OL - Outside Limits %R - %Recovery DF - Dilution Factor Amt - Amount (weight or volume)

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Form 3B

Laboratory Control Sample Recovery

Volatiles by EPA Volatiles Organics by Method 8260C

Workorder

HS24050146

Client

Bhate Environmental Associates, Inc.

Project

GROUNDWATER TREATMENT PLANT
BI-WEEKLY SAMPLES

06/06/2024

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