

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX122823\
 Data File : VX039524.D
 Acq On : 28 Dec 2023 18:12
 Operator : JC/MD
 Sample : 06025-01 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 50200

Quant Time: Dec 28 22:55:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121323W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 14 01:28:15 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

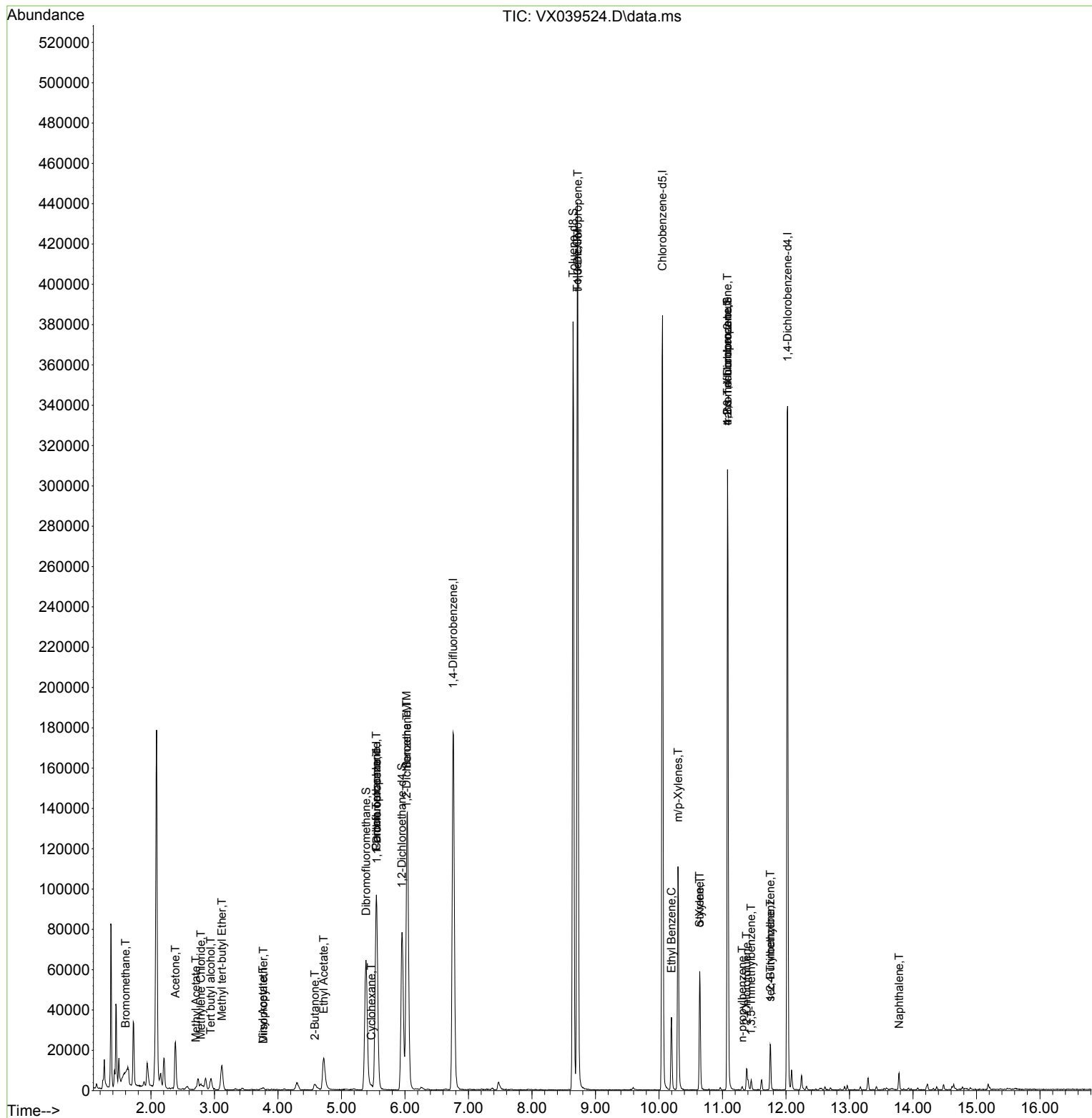
Internal Standards						
1) Pentafluorobenzene	5.550	168	83692	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	177240	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	165197	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	67130	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	73868	48.180	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	96.360%		
35) Dibromofluoromethane	5.385	113	56796	46.385	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.760%		
50) Toluene-d8	8.647	98	218767	48.125	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	96.240%		
62) 4-Bromofluorobenzene	11.079	95	83950	44.759	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	89.520%		
Target Compounds					Qvalue	
5) Bromomethane	1.599	94	259	0.371	ug/l #	71
11) Tert butyl alcohol	2.941	59	4153	10.787	ug/l #	78
16) Acetone	2.386	43	25390	5.701	ug/l	91
18) Methyl Acetate	2.709	43	1621	0.489	ug/l #	89
19) Methyl tert-butyl Ether	3.117	73	12897	3.313	ug/l #	84
20) Methylene Chloride	2.788	84	877	0.686	ug/l #	71
22) Diisopropyl ether	3.770	45	1063	0.268	ug/l #	67
23) Vinyl Acetate	3.764	43	674	0.228	ug/l #	73
25) 2-Butanone	4.581	43	5602	4.234	ug/l	96
31) Cyclohexane	5.471	56	1598	0.807	ug/l	91
36) 1,1-Dichloropropene	5.556	75	7938	4.108	ug/l #	49
37) Ethyl Acetate	4.721	43	28672	12.011	ug/l	97
38) Carbon Tetrachloride	5.550	117	9683	5.251	ug/l #	15
40) Benzene	6.031	78	166635	30.487	ug/l	97
42) 1,2-Dichloroethane	6.025	62	1509	0.682	ug/l #	77
52) Toluene	8.714	92	162312	49.201	ug/l	95
53) t-1,3-Dichloropropene	8.720	75	2006	0.924	ug/l #	1
67) Ethyl Benzene	10.195	91	21256	3.167	ug/l	99
68) m/p-Xylenes	10.299	106	25114	10.436	ug/l	98
69) o-Xylene	10.640	106	11738	5.045	ug/l	91
70) Styrene	10.640	104	681	0.200	ug/l #	1
76) 1,2,3-Trichloropropane	11.079	75	45599	26.255	ug/l #	39
78) n-propylbenzene	11.311	91	1511	0.237	ug/l	86
79) 2-Chlorotoluene	11.378	91	1208	0.313	ug/l #	42
80) 1,3,5-Trimethylbenzene	11.451	105	2575	0.584	ug/l	92
81) trans-1,4-Dichloro-2-b...	11.079	75	45599	74.065	ug/l #	5
84) 1,2,4-Trimethylbenzene	11.756	105	10134	2.240	ug/l	98
85) sec-Butylbenzene	11.756	105	10134	1.897	ug/l #	57
95) Naphthalene	13.780	128	5284	1.076	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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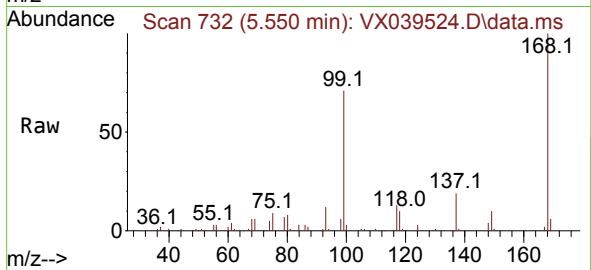
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

Instrument :

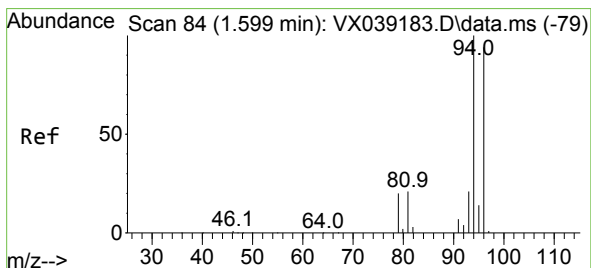
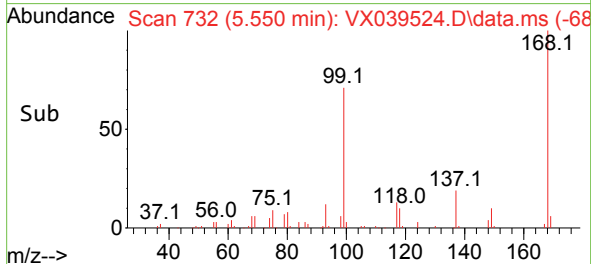
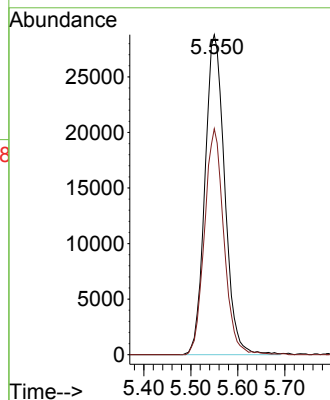
MSVOA_X

ClientSampleId :

50200

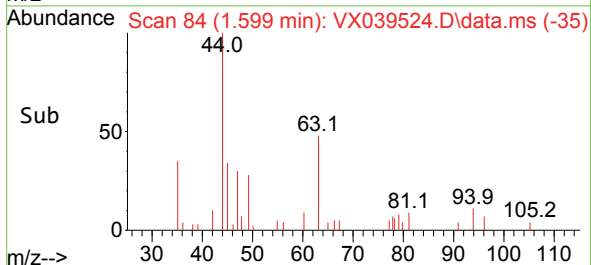
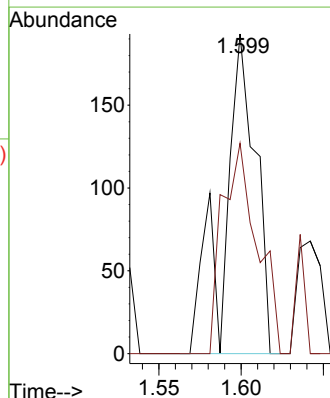
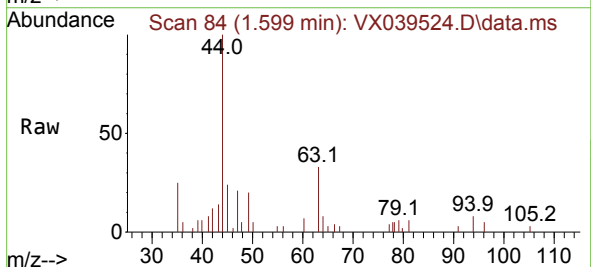


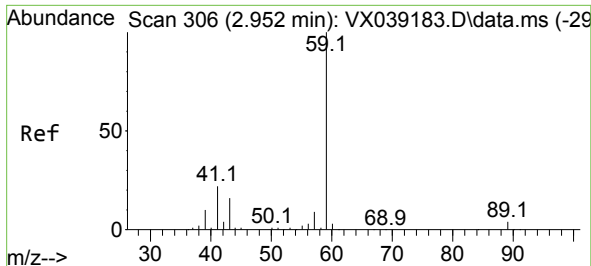
Tgt Ion:168 Resp: 83692
Ion Ratio Lower Upper
168 100
99 70.6 56.6 85.0



#5
Bromomethane
Concen: 0.371 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

Tgt Ion: 94 Resp: 259
Ion Ratio Lower Upper
94 100
96 65.8 74.6 111.8#

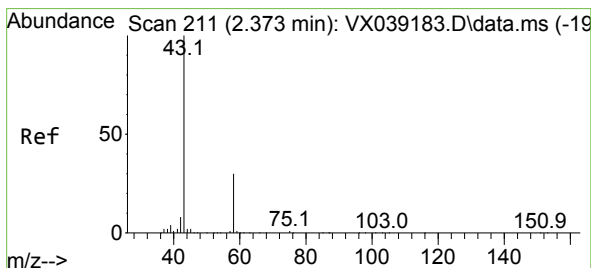
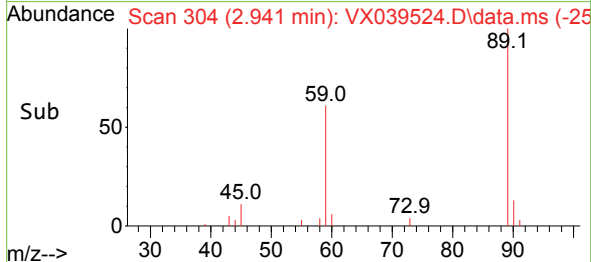
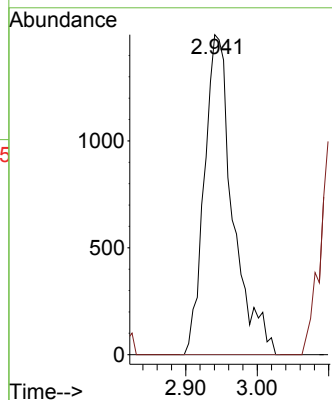
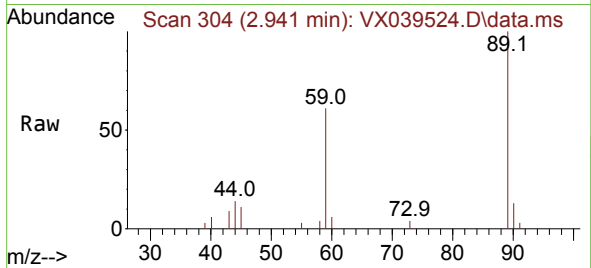




#11
Tert butyl alcohol
Concen: 10.787 ug/l
RT: 2.941 min Scan# 306
Delta R.T. -0.012 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

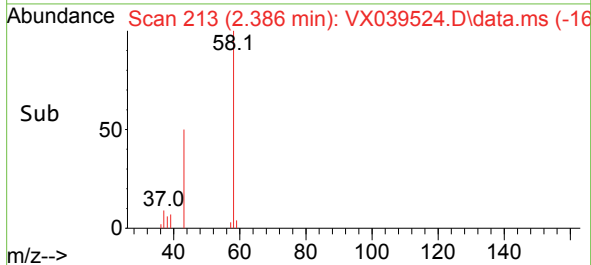
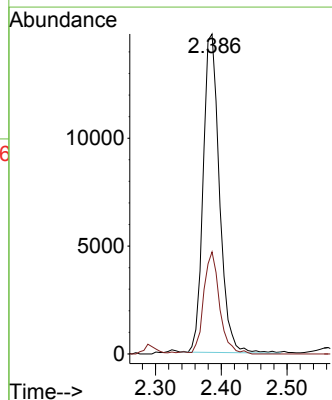
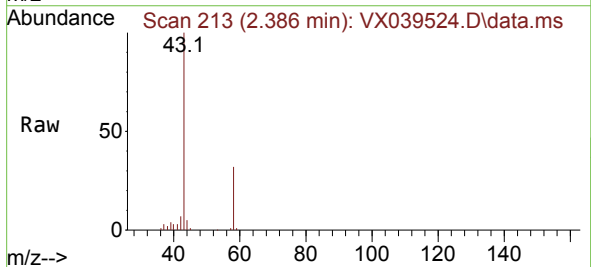
Instrument :
MSVOA_X
ClientSampleId :
50200

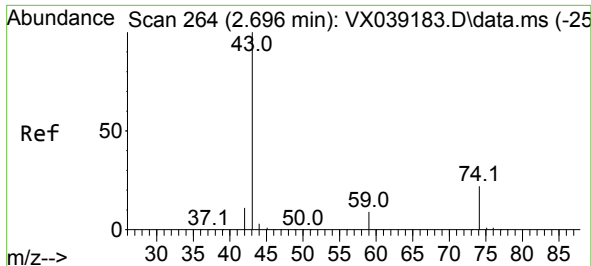
Tgt Ion: 59 Resp: 4153
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#



#16
Acetone
Concen: 5.701 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.013 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

Tgt Ion: 43 Resp: 25390
Ion Ratio Lower Upper
43 100
58 32.1 21.9 32.9

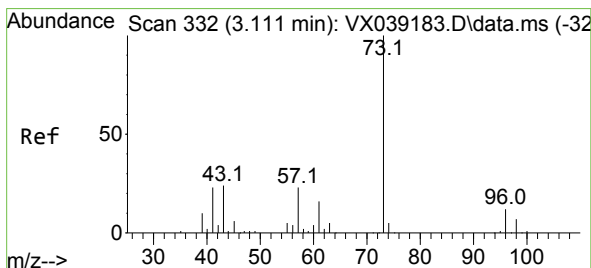
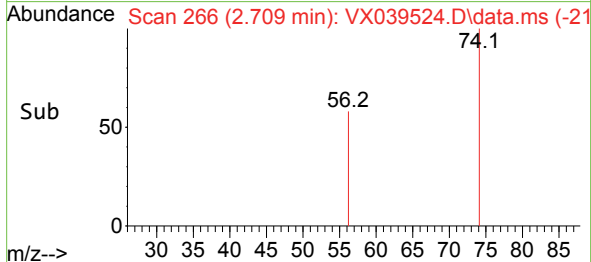
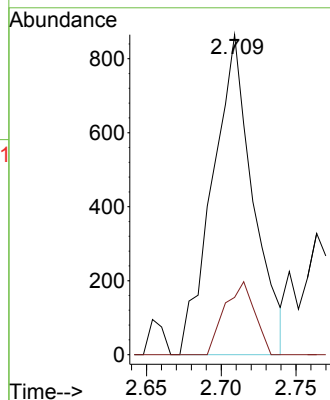
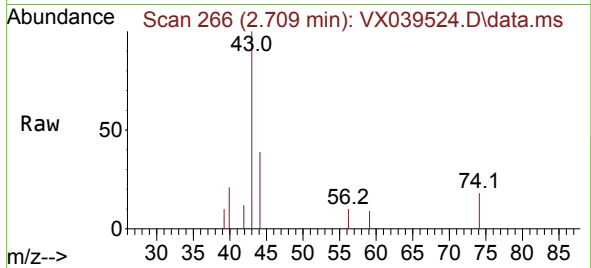




#18
Methyl Acetate
Concen: 0.489 ug/l
RT: 2.709 min Scan# 21
Delta R.T. 0.013 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

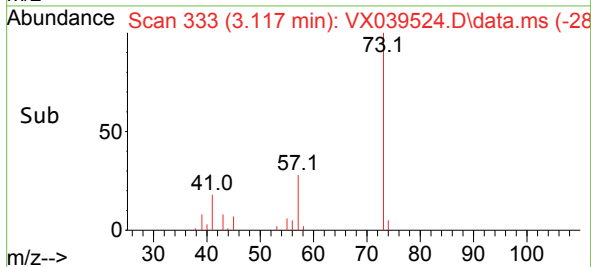
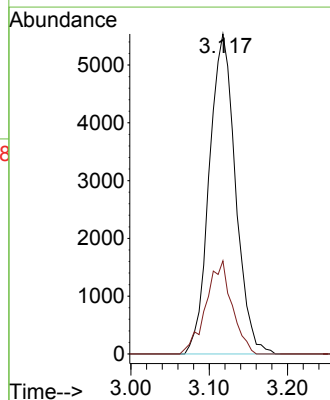
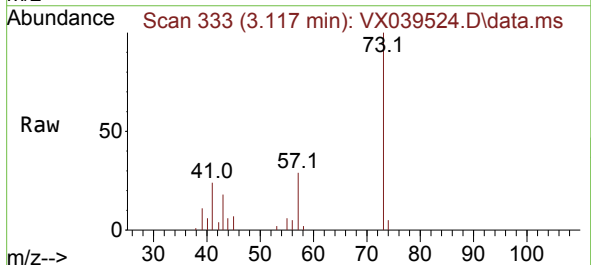
Instrument :
MSVOA_X
ClientSampleId :
50200

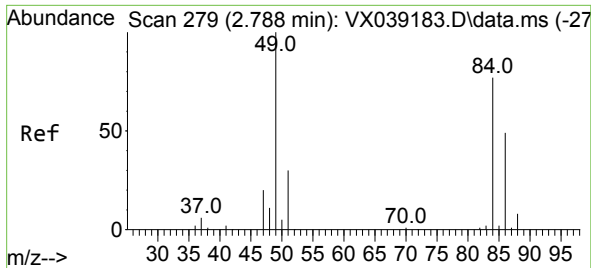
Tgt Ion: 43 Resp: 1621
Ion Ratio Lower Upper
43 100
74 17.0 17.8 26.8#



#19
Methyl tert-butyl Ether
Concen: 3.313 ug/l
RT: 3.117 min Scan# 333
Delta R.T. 0.006 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

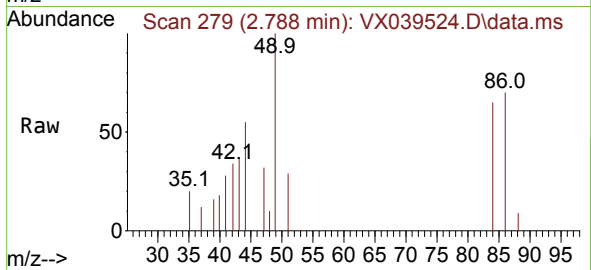
Tgt Ion: 73 Resp: 12897
Ion Ratio Lower Upper
73 100
57 29.1 17.3 25.9#



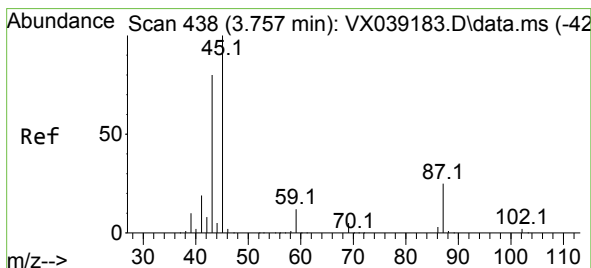
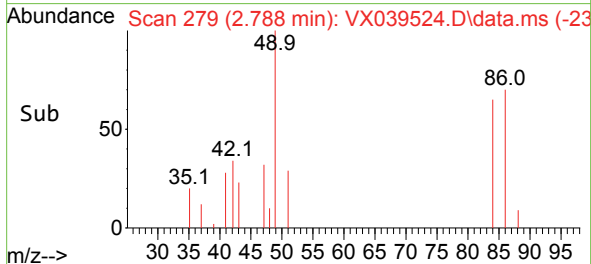
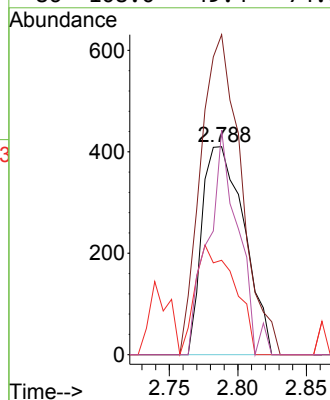


#20
Methylene Chloride
Concen: 0.686 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

Instrument :
MSVOA_X
ClientSampleId :
50200

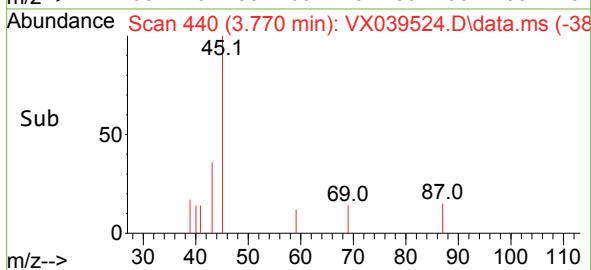
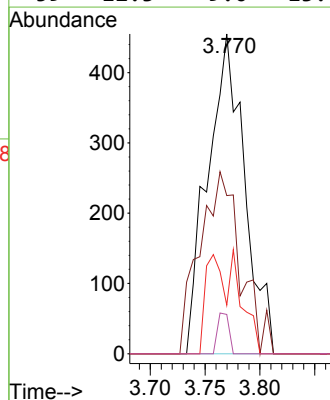
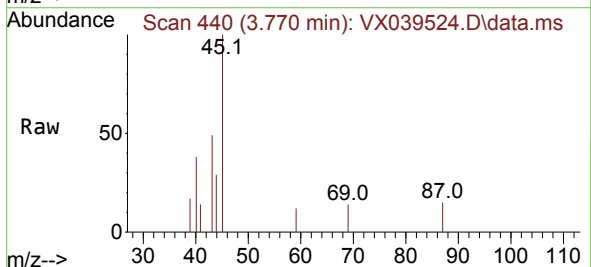


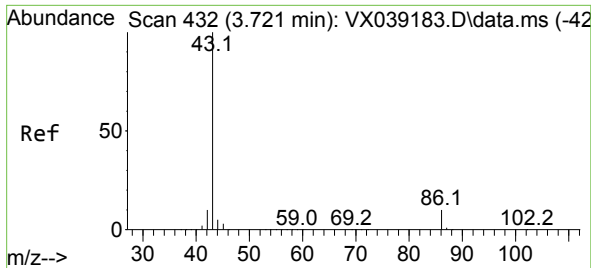
Tgt Ion: 84	Resp: 877
Ion Ratio	Lower Upper
84 100	
49 153.9	103.6 155.4
51 45.4	33.8 50.6
86 108.0	49.4 74.0#



#22
Diisopropyl ether
Concen: 0.268 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.013 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

Tgt Ion: 45	Resp: 1063
Ion Ratio	Lower Upper
45 100	
43 49.5	69.7 104.5#
87 15.2	20.8 31.2#
59 12.3	9.0 13.4

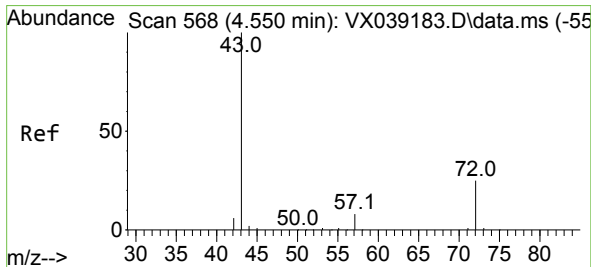
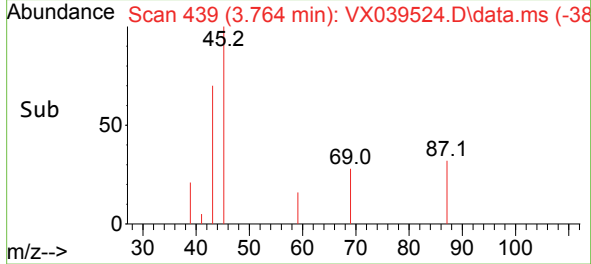
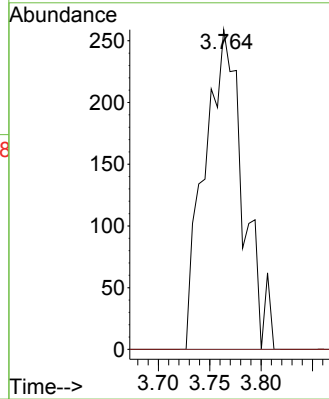
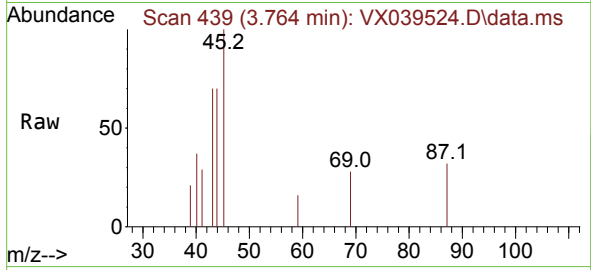




#23
 Vinyl Acetate
 Concen: 0.228 ug/l
 RT: 3.764 min Scan# 41
 Delta R.T. 0.043 min
 Lab File: VX039524.D
 Acq: 28 Dec 2023 18:12

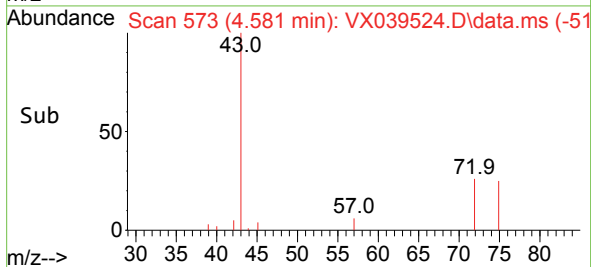
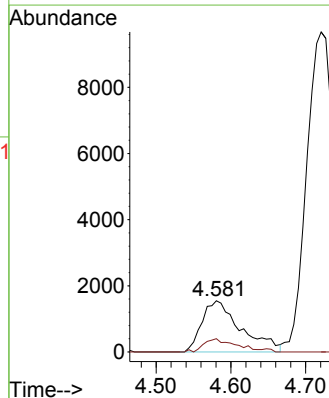
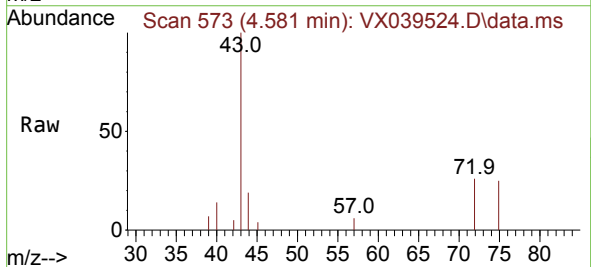
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 ClientSampleId :
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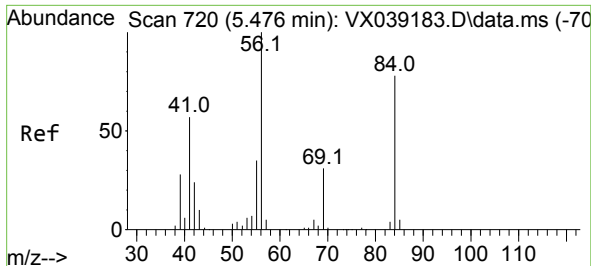
Tgt Ion: 43 Resp: 674
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.8 11.8#



#25
 2-Butanone
 Concen: 4.234 ug/l
 RT: 4.581 min Scan# 573
 Delta R.T. 0.031 min
 Lab File: VX039524.D
 Acq: 28 Dec 2023 18:12

Tgt Ion: 43 Resp: 5602
 Ion Ratio Lower Upper
 43 100
 72 26.1 19.4 29.2

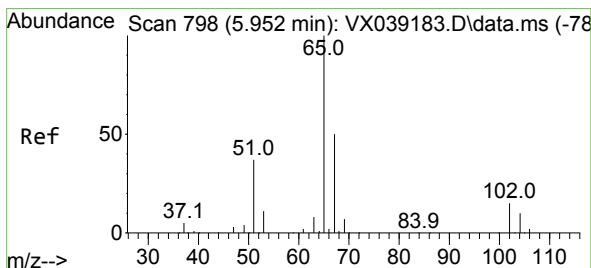
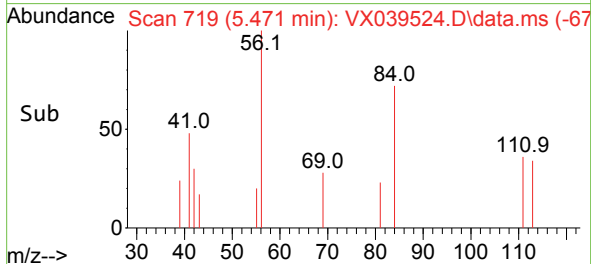
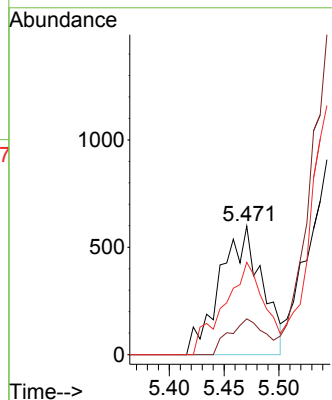
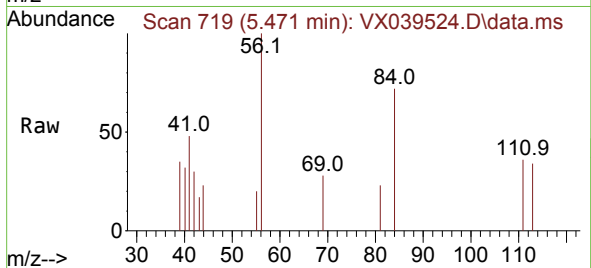




#31
Cyclohexane
Concen: 0.807 ug/l
RT: 5.471 min Scan# 719
Delta R.T. -0.006 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

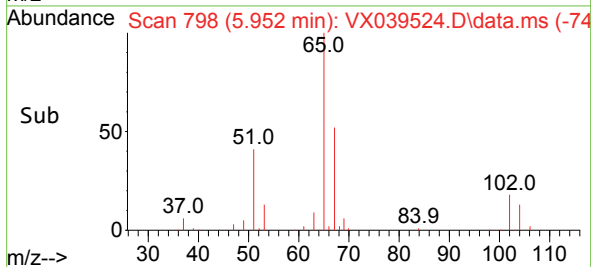
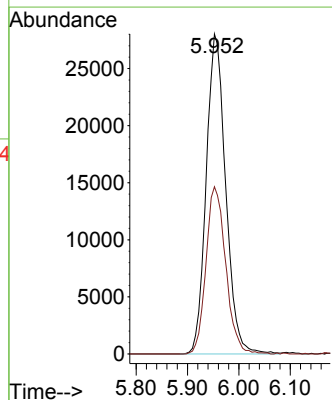
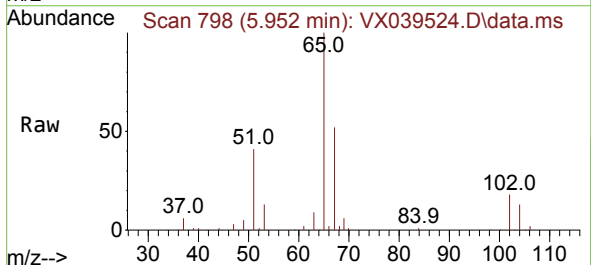
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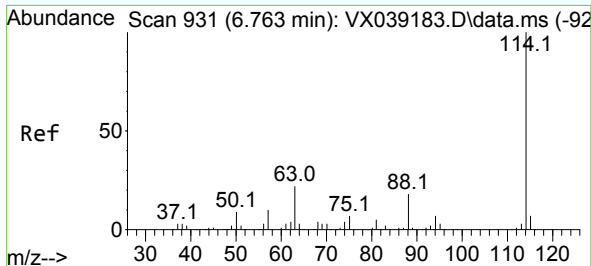
Tgt Ion: 56 Resp: 1598
Ion Ratio Lower Upper
56 100
69 27.9 23.4 35.2
84 71.8 65.9 98.9



#33
1,2-Dichloroethane-d4
Concen: 48.180 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

Tgt Ion: 65 Resp: 73868
Ion Ratio Lower Upper
65 100
67 52.9 0.0 100.2

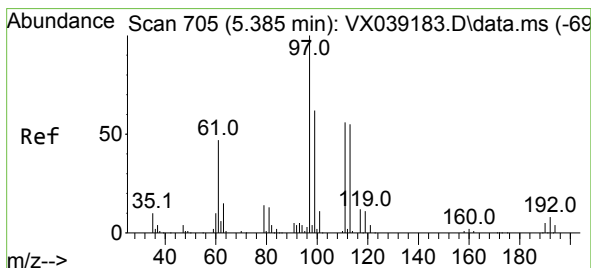
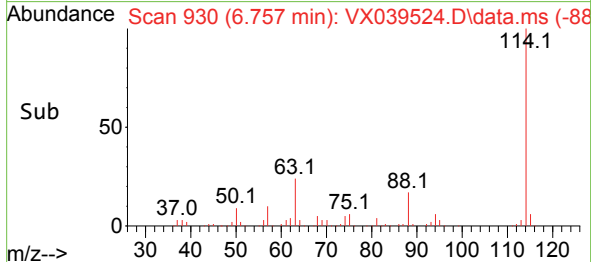
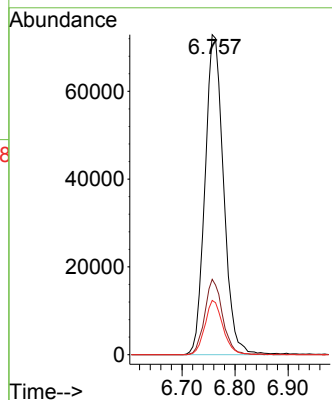
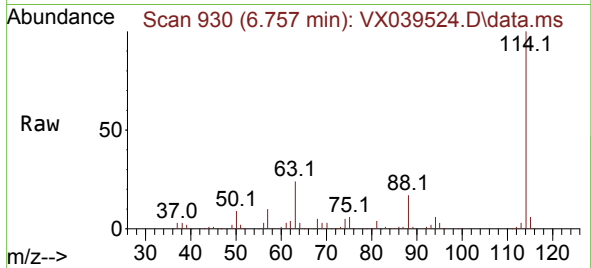




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

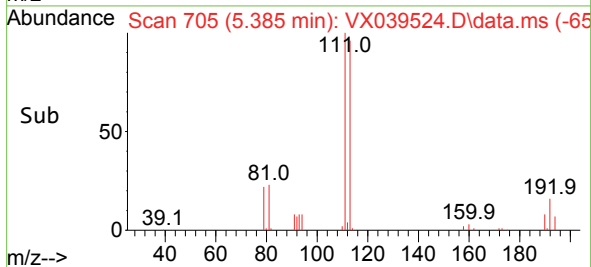
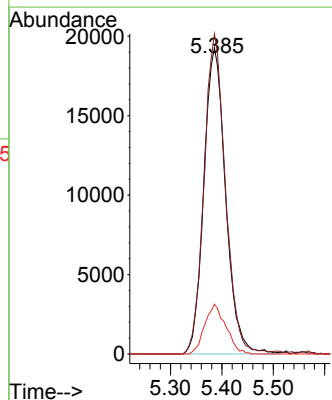
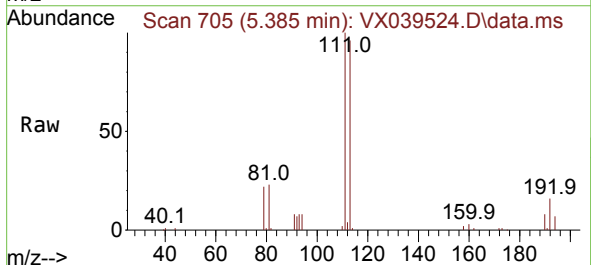
Instrument :
MSVOA_X
ClientSampleId :
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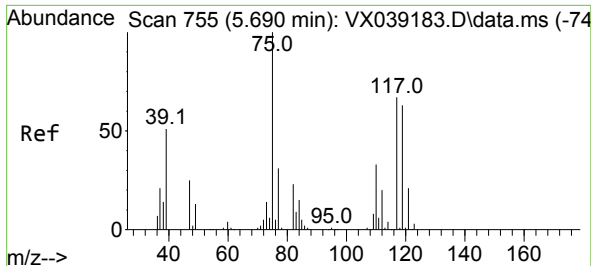
Tgt Ion:114 Resp: 177240
Ion Ratio Lower Upper
114 100
63 23.6 0.0 45.0
88 16.9 0.0 36.6



#35
Dibromofluoromethane
Concen: 46.385 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

Tgt Ion:113 Resp: 56796
Ion Ratio Lower Upper
113 100
111 102.7 82.9 124.3
192 15.7 13.3 19.9

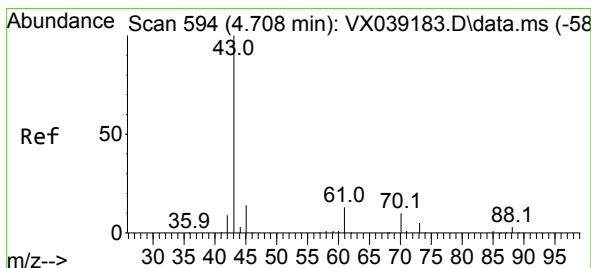
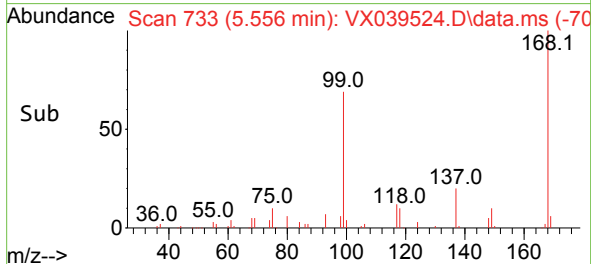
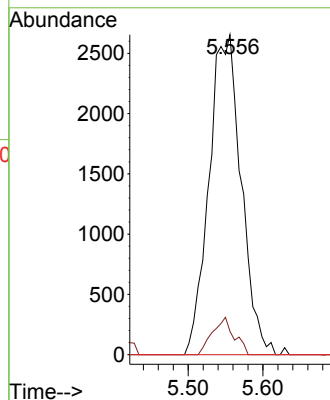
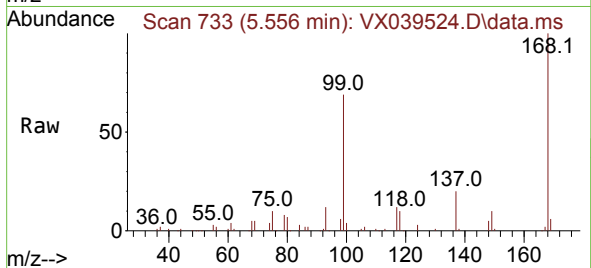




#36
1,1-Dichloropropene
Concen: 4.108 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

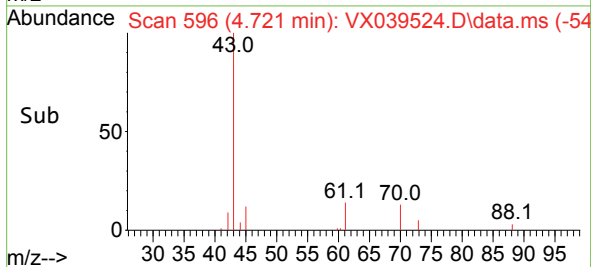
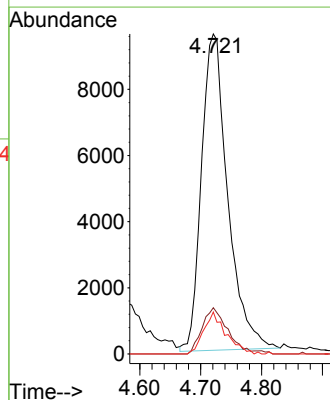
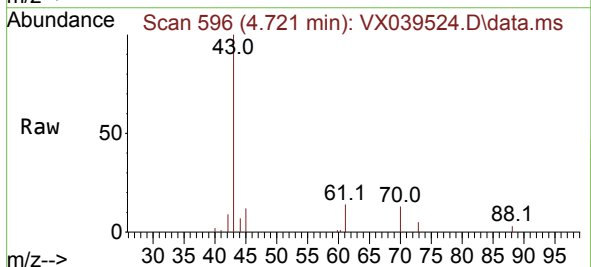
Instrument :
MSVOA_X
ClientSampleId :
50200

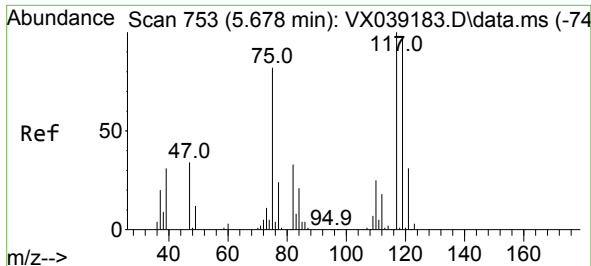
Tgt Ion: 75 Resp: 7938
Ion Ratio Lower Upper
75 100
110 7.9 17.0 50.9#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 12.011 ug/l
RT: 4.721 min Scan# 596
Delta R.T. 0.013 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

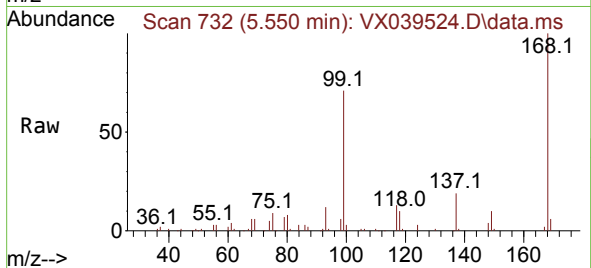
Tgt Ion: 43 Resp: 28672
Ion Ratio Lower Upper
43 100
61 14.5 10.6 16.0
70 11.3 8.3 12.5



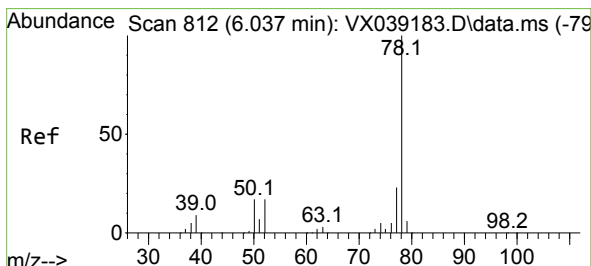
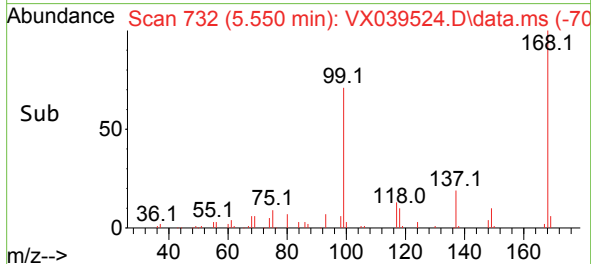
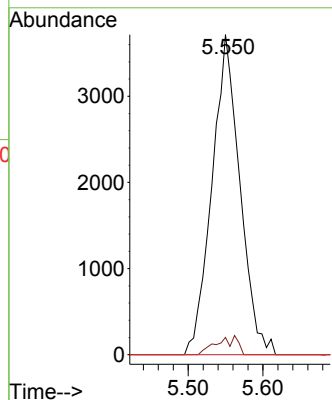


#38
Carbon Tetrachloride
Concen: 5.251 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

Instrument :
MSVOA_X
ClientSampleId :
50200

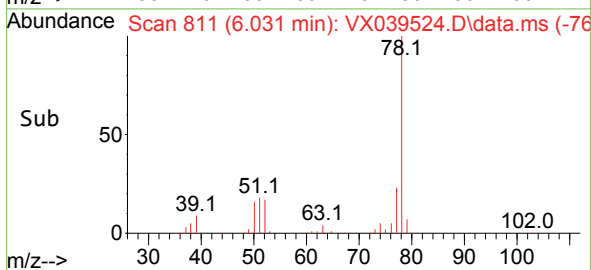
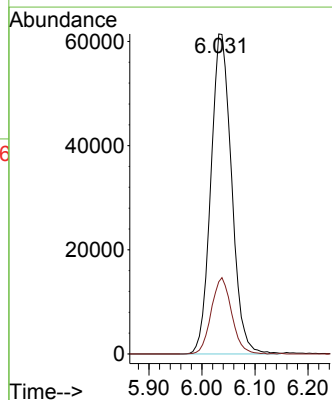
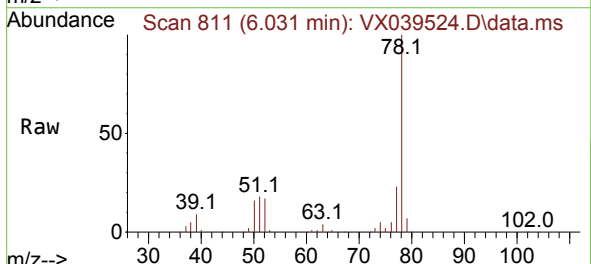


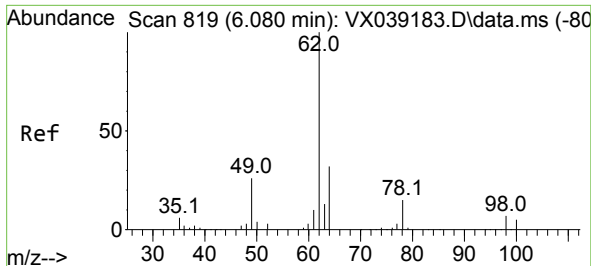
Tgt Ion:117 Resp: 9683
Ion Ratio Lower Upper
117 100
119 5.4 78.2 117.2#
121 0.0 24.4 36.6#



#40
Benzene
Concen: 30.487 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.006 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

Tgt Ion: 78 Resp: 166635
Ion Ratio Lower Upper
78 100
77 22.6 19.3 28.9





#42

1,2-Dichloroethane

Concen: 0.682 ug/l

RT: 6.025 min Scan# 81

Delta R.T. -0.054 min

Lab File: VX039524.D

Acq: 28 Dec 2023 18:12

Instrument :

MSVOA_X

ClientSampleId :

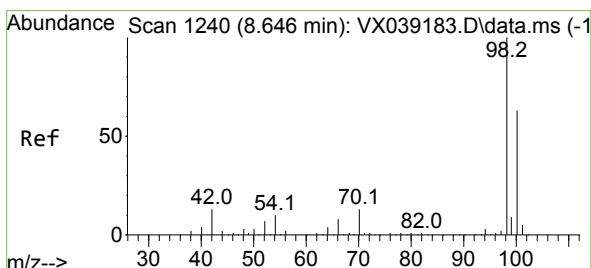
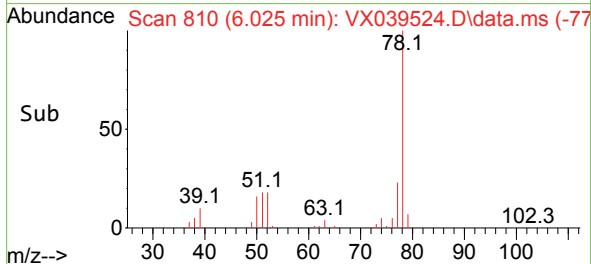
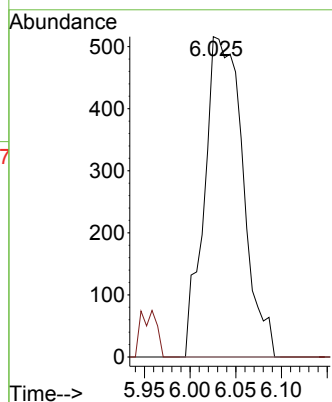
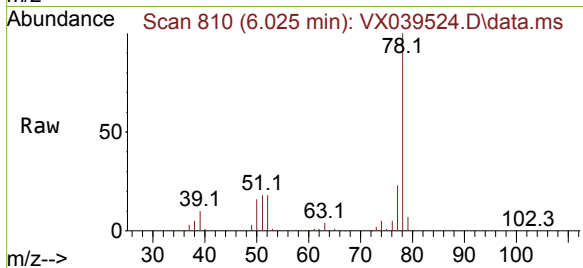
50200

Tgt Ion: 62 Resp: 1509

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.0



#50

Toluene-d8

Concen: 48.125 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX039524.D

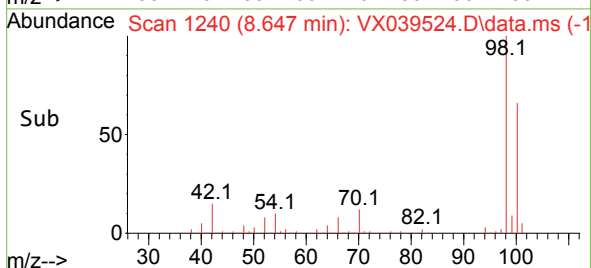
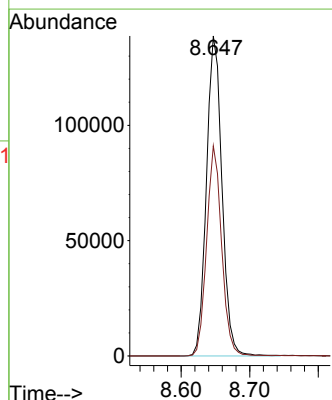
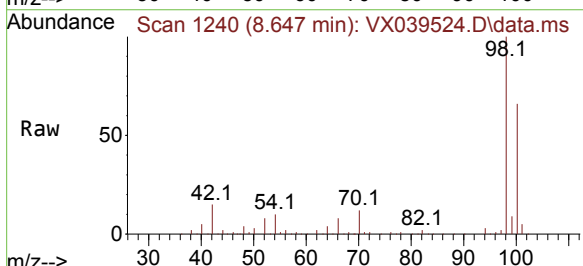
Acq: 28 Dec 2023 18:12

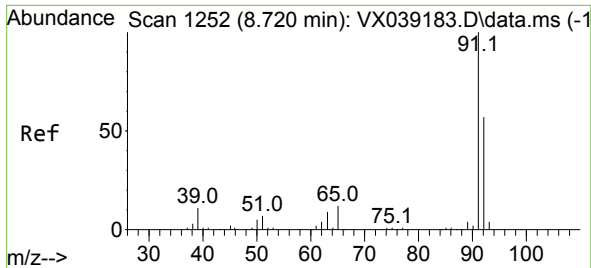
Tgt Ion: 98 Resp: 218767

Ion Ratio Lower Upper

98 100

100 63.5 53.1 79.7

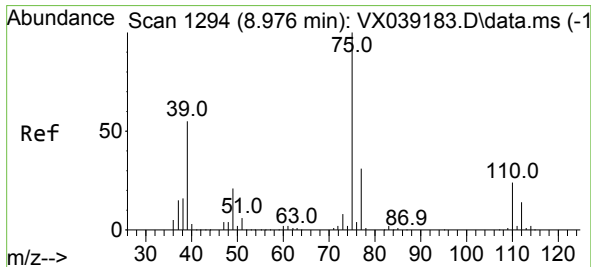
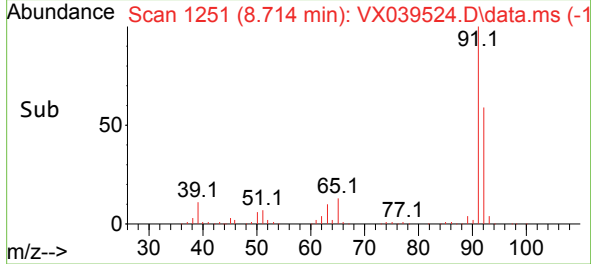
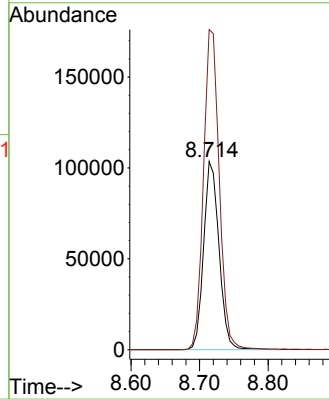
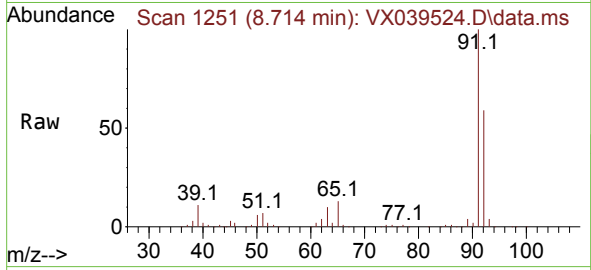




#52
Toluene
Concen: 49.201 ug/l
RT: 8.714 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

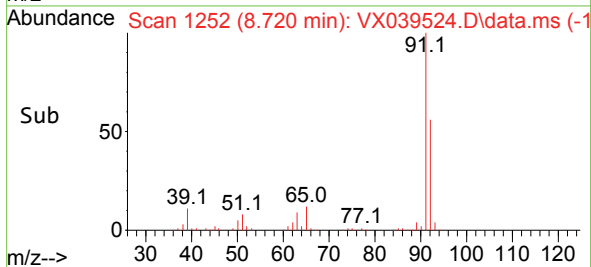
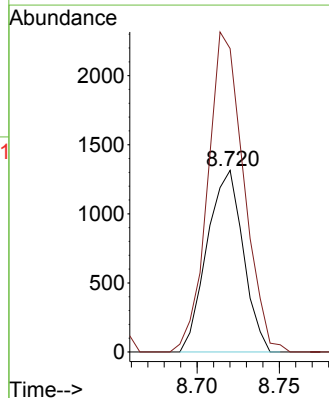
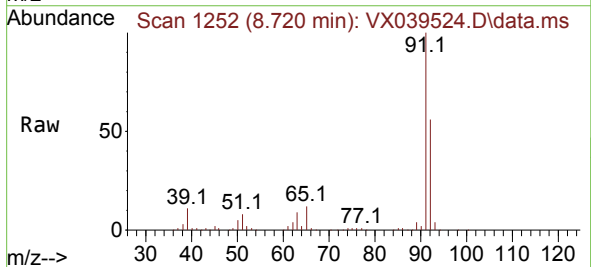
Instrument :
MSVOA_X
ClientSampleId :
50200

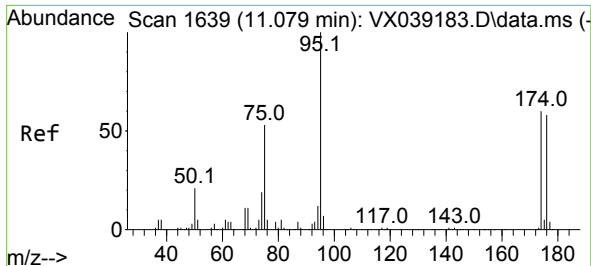
Tgt Ion: 92 Resp: 162312
Ion Ratio Lower Upper
92 100
91 174.7 134.2 201.2



#53
t-1,3-Dichloropropene
Concen: 0.924 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.256 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

Tgt Ion: 75 Resp: 2006
Ion Ratio Lower Upper
75 100
77 163.1 25.7 38.5#

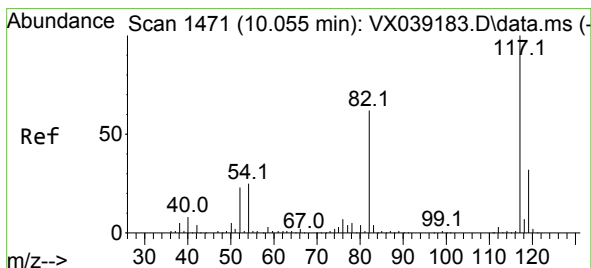
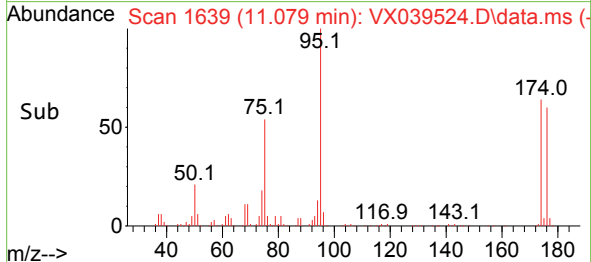
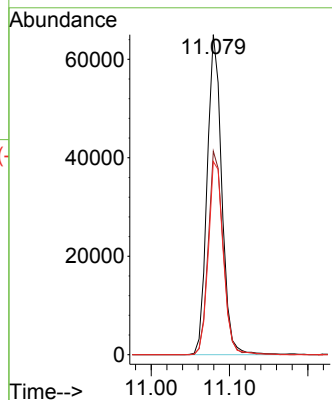
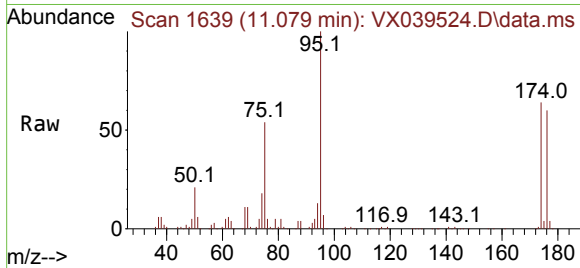




#62
4-Bromofluorobenzene
Concen: 44.759 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

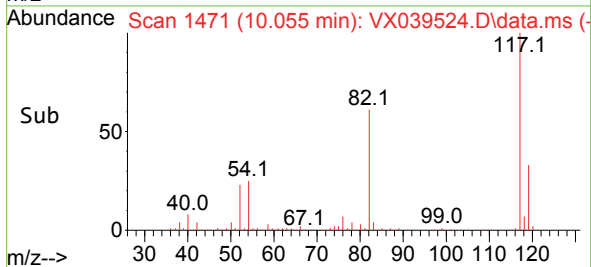
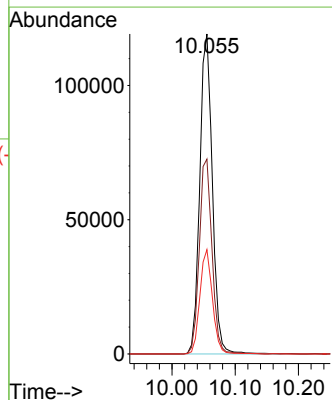
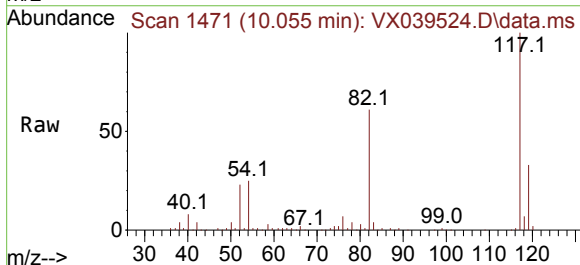
Instrument :
MSVOA_X
ClientSampleId :
50200

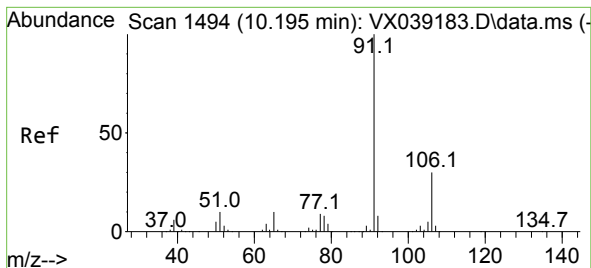
Tgt Ion: 95 Resp: 83950
Ion Ratio Lower Upper
95 100
174 64.7 0.0 135.6
176 62.0 0.0 131.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

Tgt Ion: 117 Resp: 165197
Ion Ratio Lower Upper
117 100
82 60.9 46.2 69.4
119 32.6 25.5 38.3

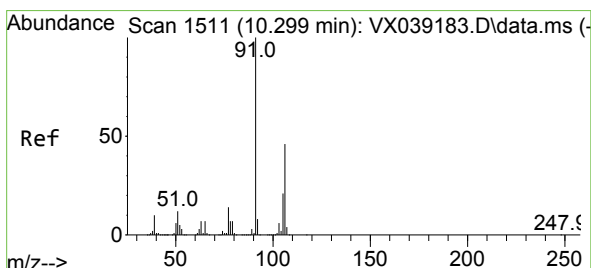
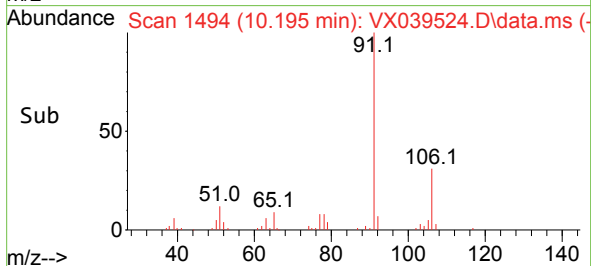
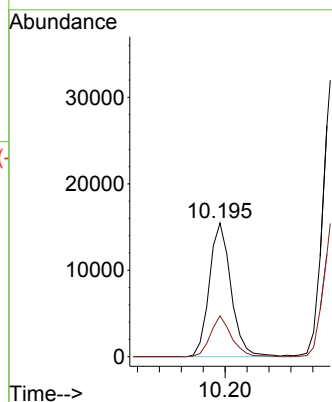
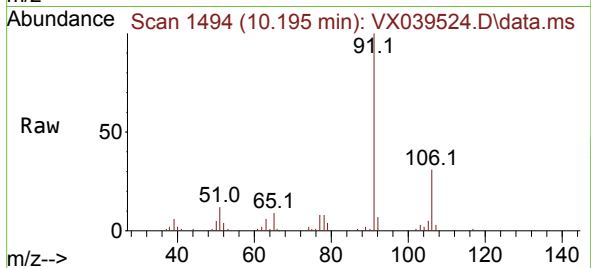




#67
Ethyl Benzene
Concen: 3.167 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.000 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

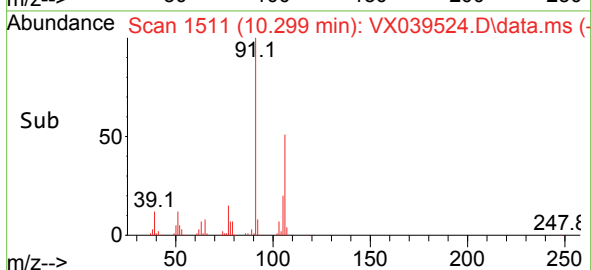
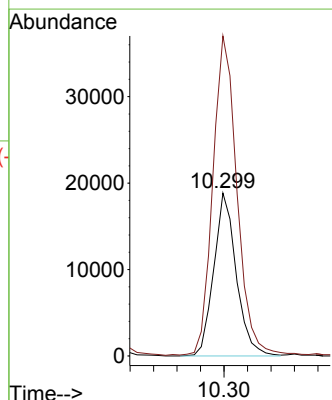
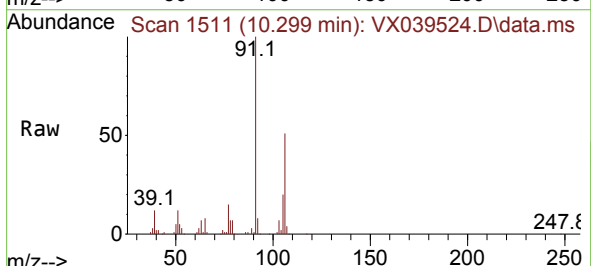
Instrument :
MSVOA_X
ClientSampleId :
50200

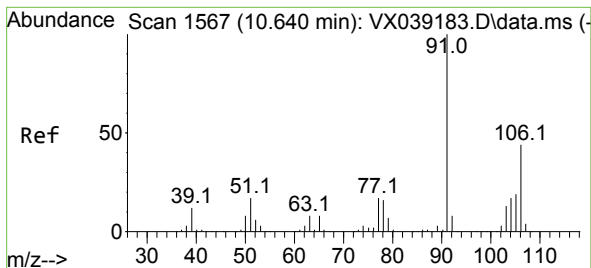
Tgt Ion: 91 Resp: 21256
Ion Ratio Lower Upper
91 100
106 30.6 24.9 37.3



#68
m/p-Xylenes
Concen: 10.436 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

Tgt Ion:106 Resp: 25114
Ion Ratio Lower Upper
106 100
91 210.3 165.5 248.3





#69

o-Xylene

Concen: 5.045 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX039524.D

Acq: 28 Dec 2023 18:12

Instrument :

MSVOA_X

ClientSampleId :

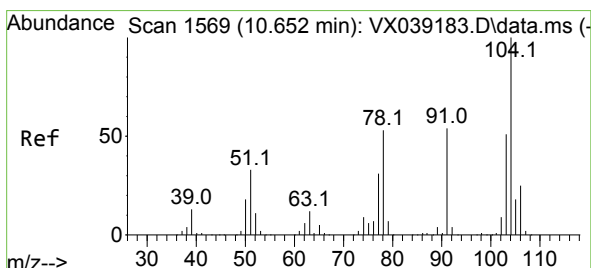
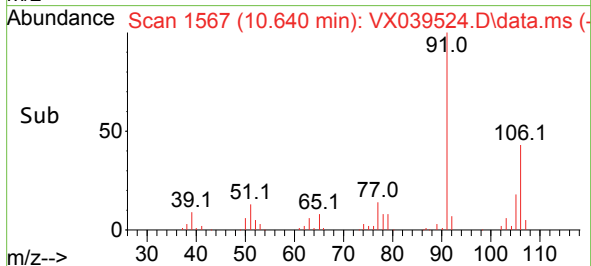
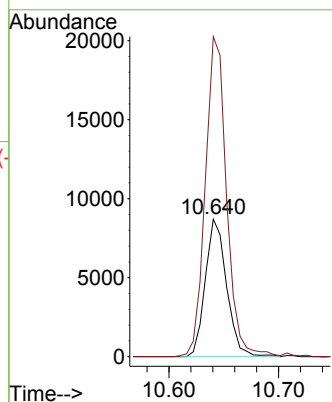
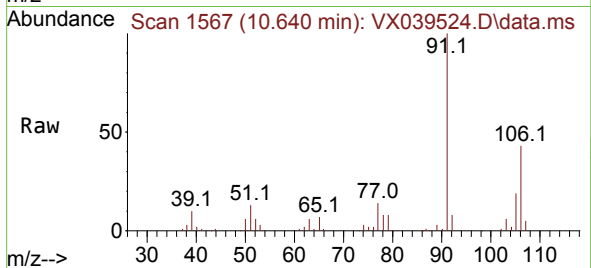
50200

Tgt Ion:106 Resp: 11738

Ion Ratio Lower Upper

106 100

91 232.7 108.9 326.8



#70

Styrene

Concen: 0.200 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.012 min

Lab File: VX039524.D

Acq: 28 Dec 2023 18:12

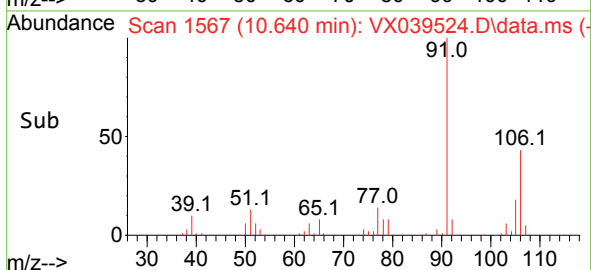
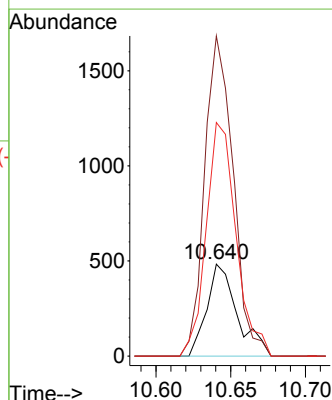
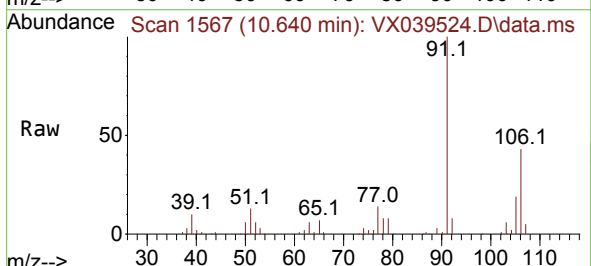
Tgt Ion:104 Resp: 681

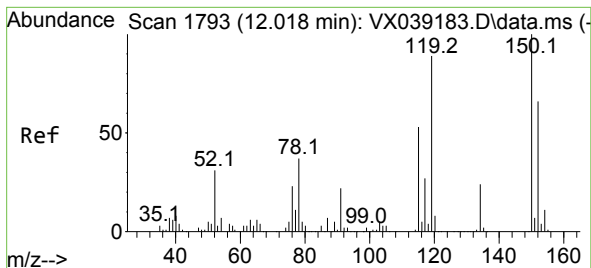
Ion Ratio Lower Upper

104 100

78 327.9 43.6 65.4#

103 251.4 43.6 65.4#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX039524.D

Acq: 28 Dec 2023 18:12

Instrument :

MSVOA_X

ClientSampleId :

50200

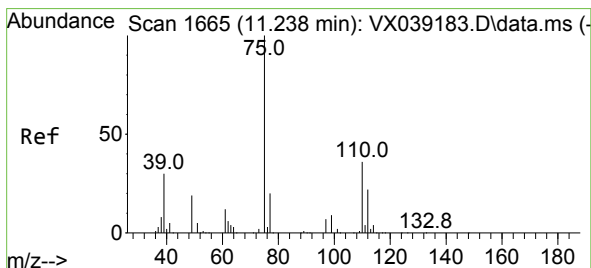
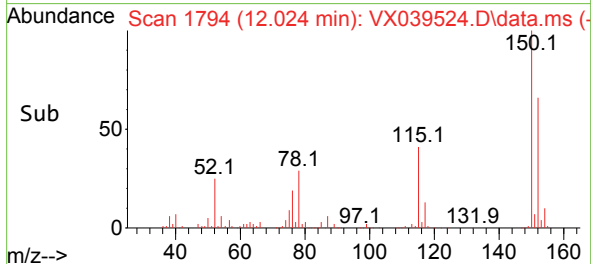
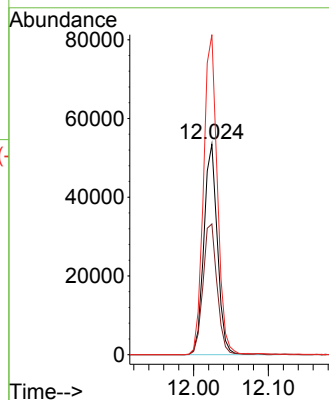
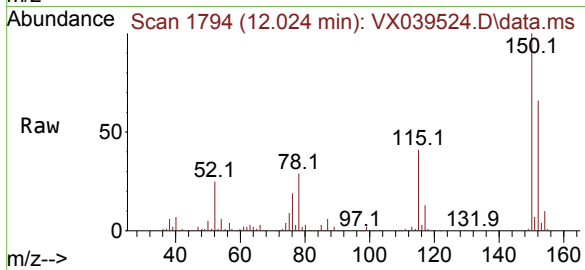
Tgt Ion:152 Resp: 67130

Ion Ratio Lower Upper

152 100

115 64.9 43.3 129.9

150 154.8 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 26.255 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX039524.D

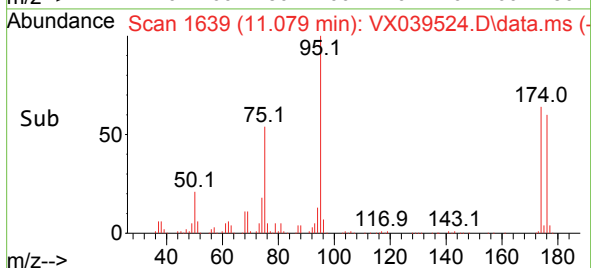
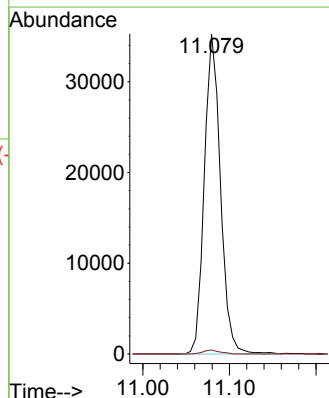
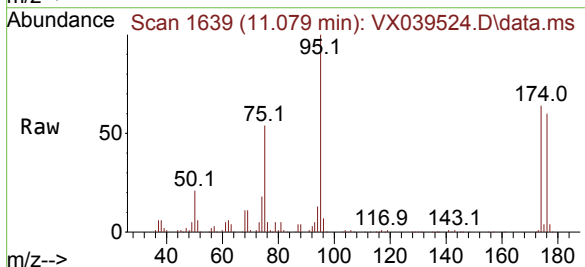
Acq: 28 Dec 2023 18:12

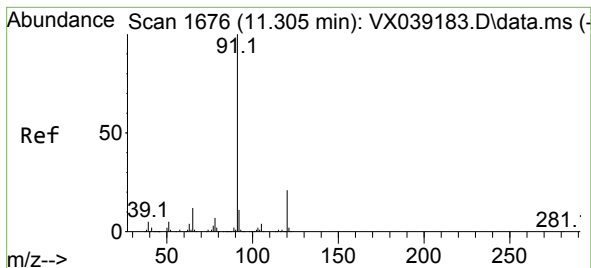
Tgt Ion: 75 Resp: 45599

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#





#78

n-propylbenzene

Concen: 0.237 ug/l

RT: 11.311 min Scan# 1677

Delta R.T. 0.006 min

Lab File: VX039524.D

Acq: 28 Dec 2023 18:12

Instrument :

MSVOA_X

ClientSampleId :

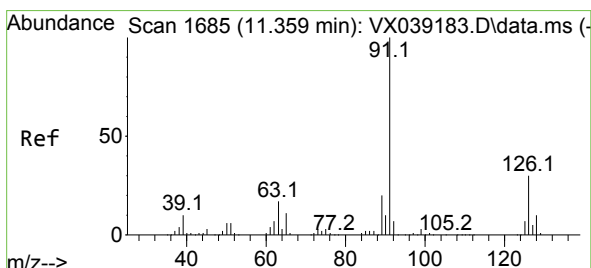
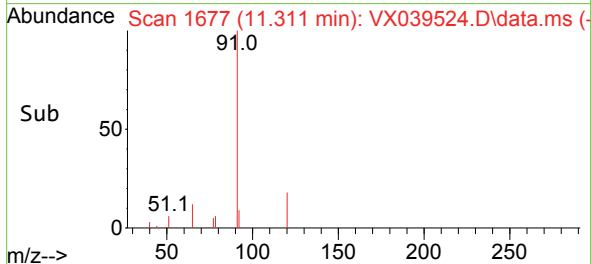
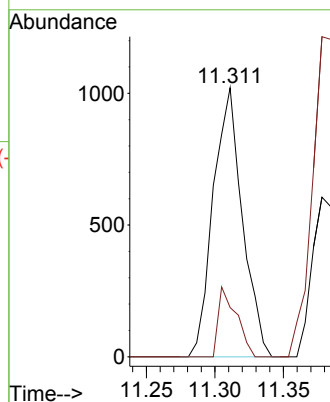
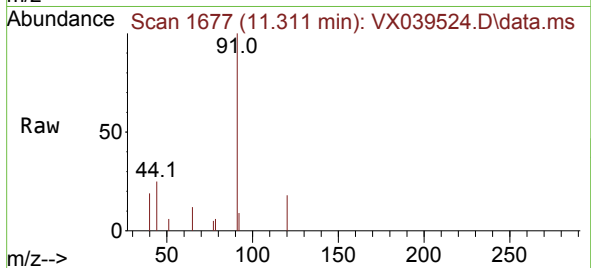
50200

Tgt Ion: 91 Resp: 1511

Ion Ratio Lower Upper

91 100

120 16.1 11.5 34.4



#79

2-Chlorotoluene

Concen: 0.313 ug/l

RT: 11.378 min Scan# 1688

Delta R.T. 0.019 min

Lab File: VX039524.D

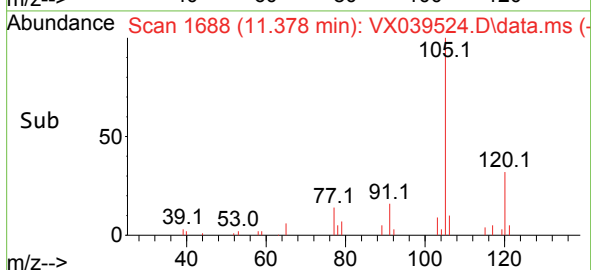
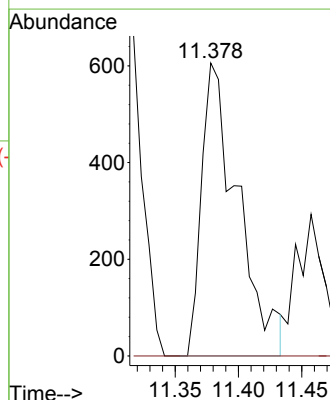
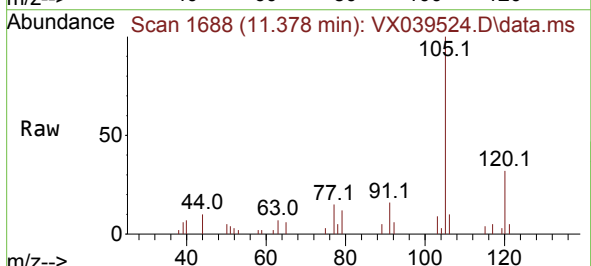
Acq: 28 Dec 2023 18:12

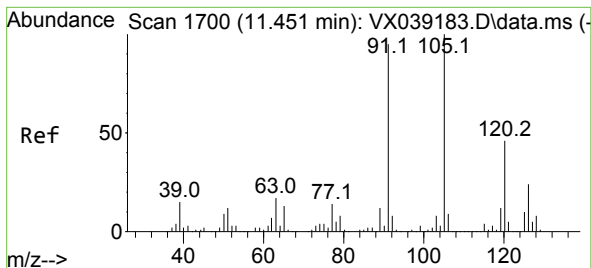
Tgt Ion: 91 Resp: 1208

Ion Ratio Lower Upper

91 100

126 0.0 16.3 48.8#





#80

1,3,5-Trimethylbenzene

Concen: 0.584 ug/l

RT: 11.451 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX039524.D

Acq: 28 Dec 2023 18:12

Instrument :

MSVOA_X

ClientSampleId :

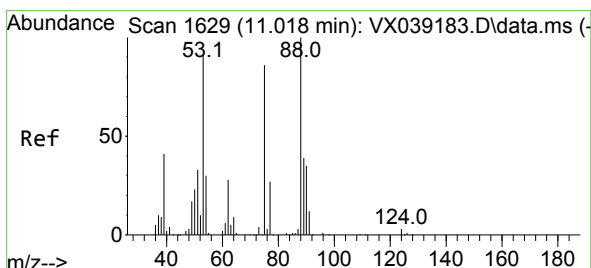
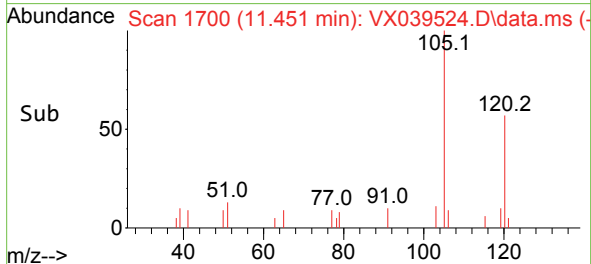
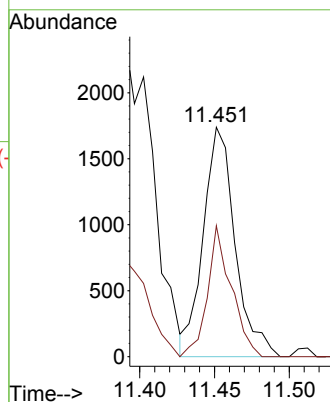
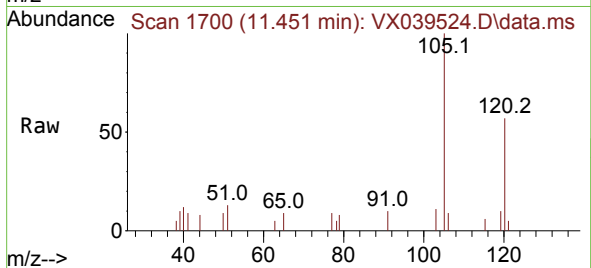
50200

Tgt Ion:105 Resp: 2575

Ion Ratio Lower Upper

105 100

120 42.8 24.1 72.3



#81

trans-1,4-Dichloro-2-butene

Concen: 74.065 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX039524.D

Acq: 28 Dec 2023 18:12

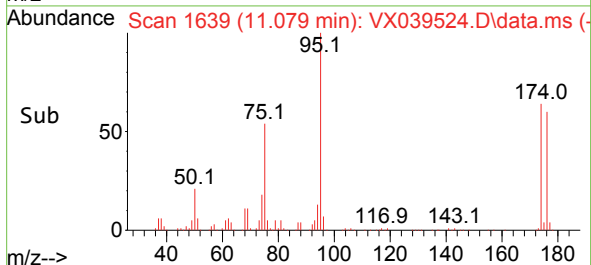
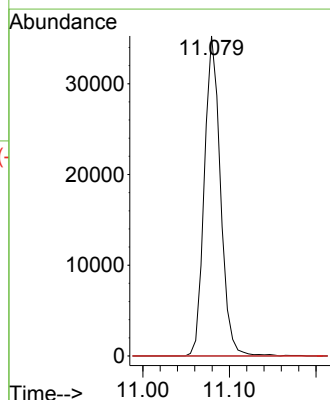
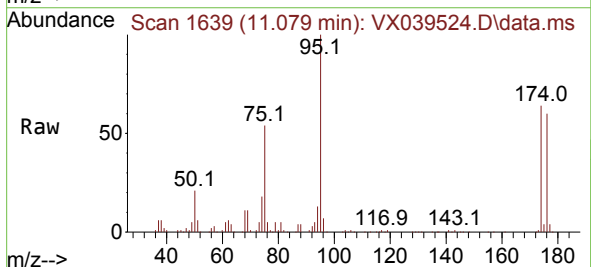
Tgt Ion: 75 Resp: 45599

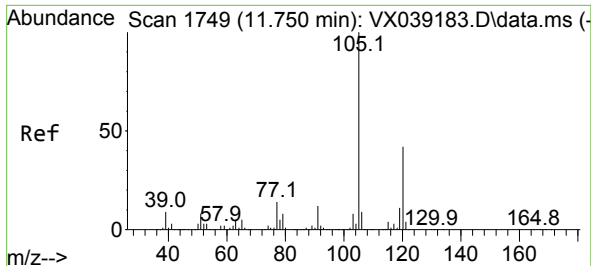
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#

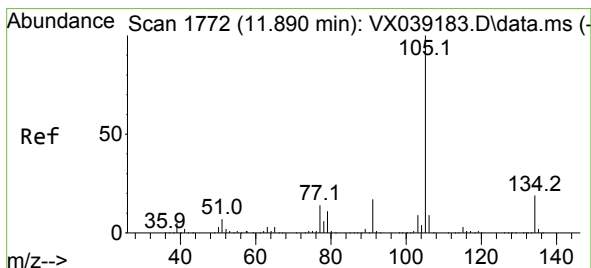
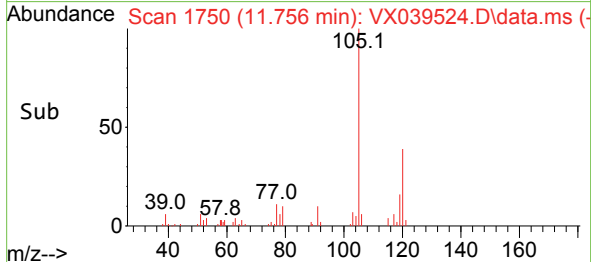
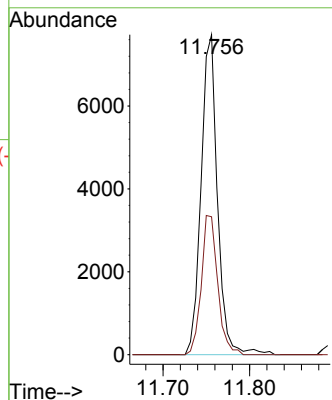
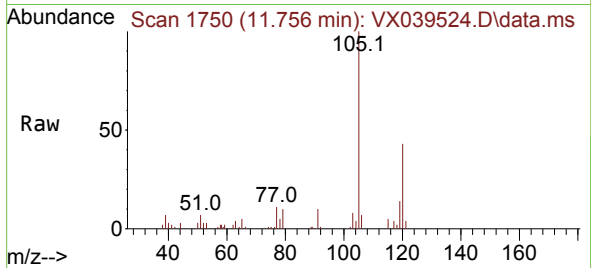




#84
1,2,4-Trimethylbenzene
Concen: 2.240 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

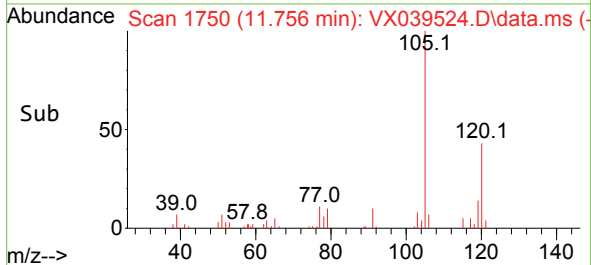
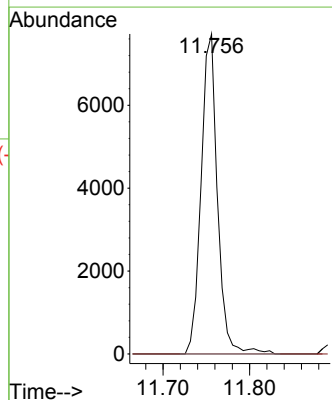
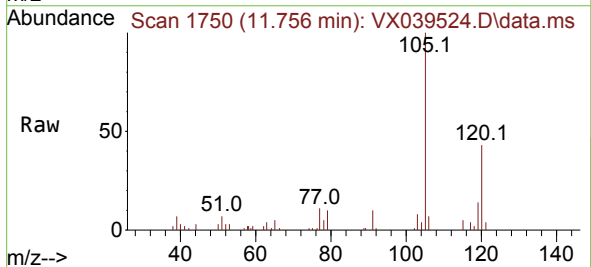
Instrument :
MSVOA_X
ClientSampleId :
50200

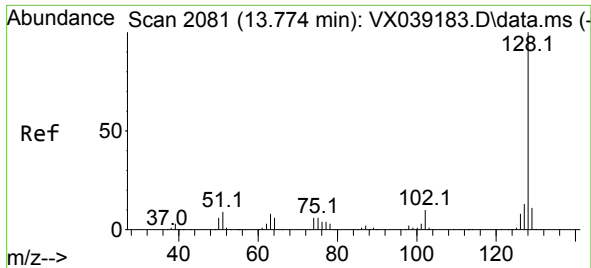
Tgt Ion:105 Resp: 10134
Ion Ratio Lower Upper
105 100
120 43.5 21.2 63.6



#85
sec-Butylbenzene
Concen: 1.897 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. -0.134 min
Lab File: VX039524.D
Acq: 28 Dec 2023 18:12

Tgt Ion:105 Resp: 10134
Ion Ratio Lower Upper
105 100
134 0.0 9.8 29.4#





#95

Naphthalene

Concen: 1.076 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX039524.D

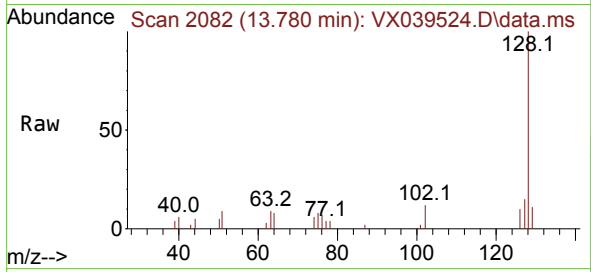
Acq: 28 Dec 2023 18:12

Instrument :

MSVOA_X

ClientSampleId :

50200



Tgt Ion:128 Resp: 5284

Ion Ratio Lower Upper

128 100

127 13.1 10.3 15.5

129 10.4 8.8 13.2

