

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX041323\
 Data File : VX035040.D
 Acq On : 12 Apr 2023 12:39
 Operator : JC/MD
 Sample : 02288-02DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GROUND-WATERDL

Quant Time: Apr 13 02:32:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032923W.M
 Quant Title : SW846 8260
 QLast Update : Sat Apr 01 01:50:18 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	270156	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	462690	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	416990	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	187975	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	189798	45.938	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	91.880%		
35) Dibromofluoromethane	5.385	113	147663	48.251	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.500%		
50) Toluene-d8	8.647	98	554409	49.081	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	98.160%		
62) 4-Bromofluorobenzene	11.079	95	209474	47.921	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.840%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.136	74	1656	0.875	ug/l #	1
13) Acrolein	2.240	56	225	0.302	ug/l #	31
16) Acetone	2.392	43	22192	13.222	ug/l	97
20) Methylene Chloride	2.794	84	2176	0.657	ug/l	93
24) 1,1-Dichloroethane	3.605	63	4146	0.703	ug/l	98
25) 2-Butanone	4.574	43	8842	3.622	ug/l #	87
27) cis-1,2-Dichloroethene	4.483	96	10385	2.898	ug/l	91
29) Tetrahydrofuran	5.044	42	1708	1.117	ug/l #	17
31) Cyclohexane	5.562	56	6370	1.266	ug/l #	15
32) 1,1,1-Trichloroethane	5.379	97	6610	1.293	ug/l #	51
36) 1,1-Dichloropropene	5.550	75	23013	5.076	ug/l #	50
37) Ethyl Acetate	4.721	43	14680	3.097	ug/l	99
38) Carbon Tetrachloride	5.550	117	27967	6.543	ug/l #	16
41) Methacrylonitrile	5.038	41	13913	5.396	ug/l #	44
44) Trichloroethene	7.129	130	7868	2.368	ug/l	99
52) Toluene	8.720	92	2795	0.329	ug/l	98
60) Dibromochloromethane	9.275	129	46169	15.090	ug/l #	10
64) Tetrachloroethene	9.275	164	46507	15.585	ug/l	97
68) m/p-Xylenes	10.299	106	9883	1.646	ug/l	99
69) o-Xylene	10.640	106	5851	0.995	ug/l	96
76) 1,2,3-Trichloropropane	11.079	75	107138	28.287	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	107138	84.774	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.756	105	2844	0.243	ug/l	100
94) Hexachlorobutadiene	13.725	225	621	0.401	ug/l	70

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

Quant Time: Apr 13 02:32:27 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X032923W.M
Quant Title : SW846 8260
QLast Update : Sat Apr 01 01:50:18 2023
Response via : Initial Calibration

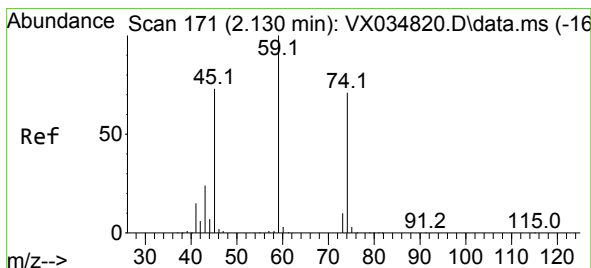
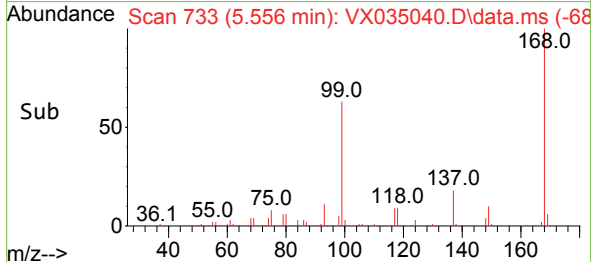
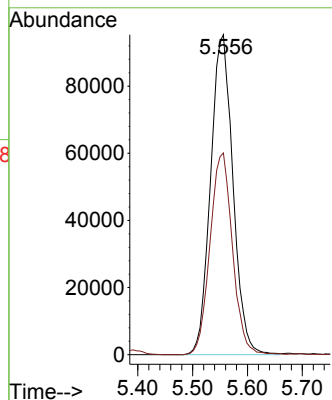
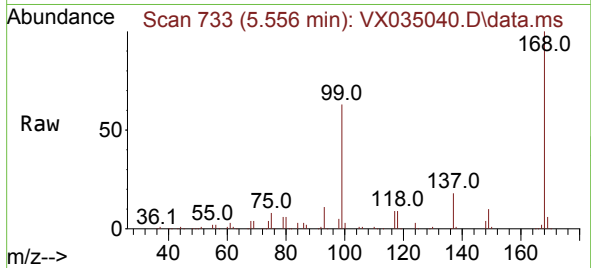




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

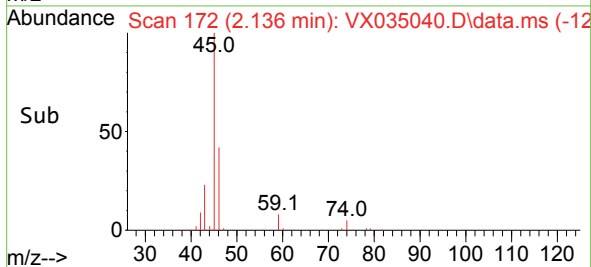
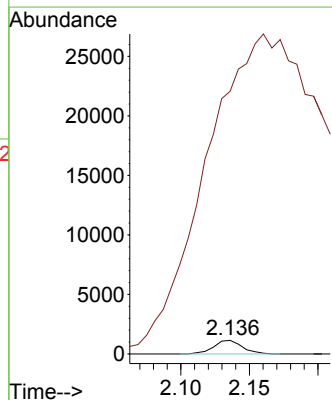
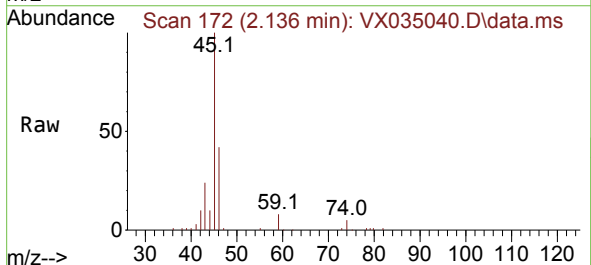
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATERDL

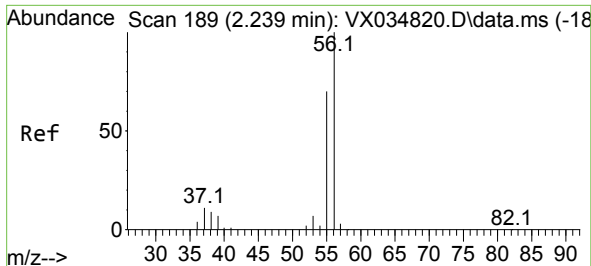
Tgt Ion:168 Resp: 270156
Ion Ratio Lower Upper
168 100
99 63.1 45.7 68.5



#8
Diethyl Ether
Concen: 0.875 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.006 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

Tgt Ion: 74 Resp: 1656
Ion Ratio Lower Upper
74 100
45 0.0 49.8 149.3#

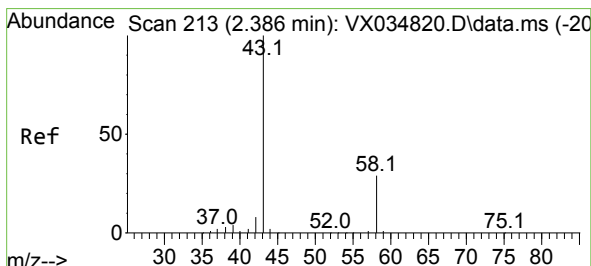
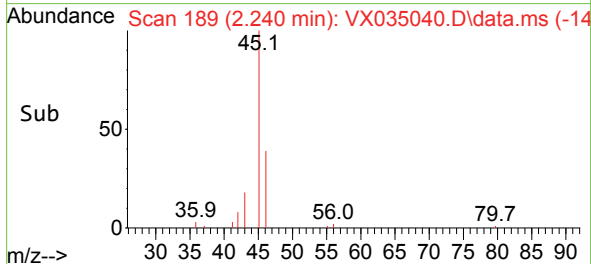
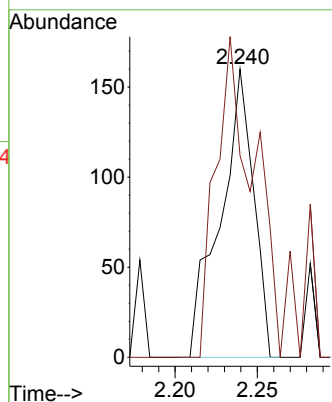
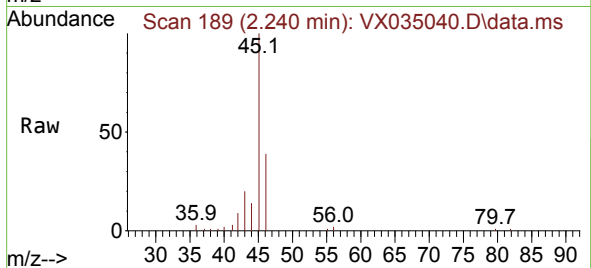




#13
Acrolein
Concen: 0.302 ug/l
RT: 2.240 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

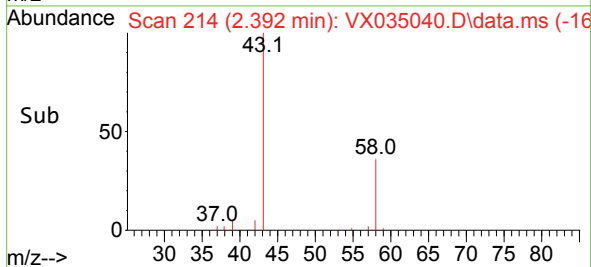
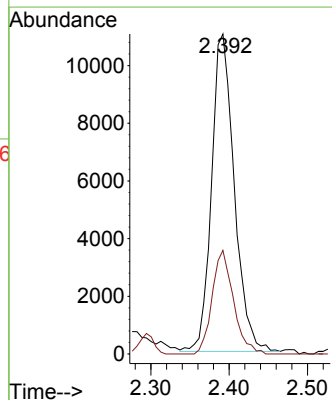
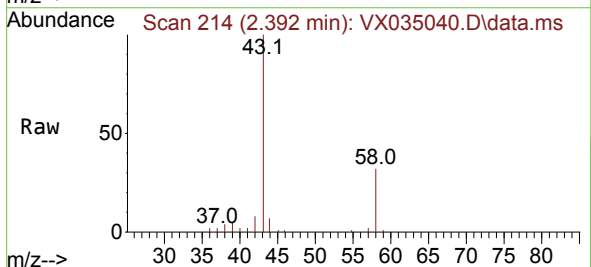
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATERDL

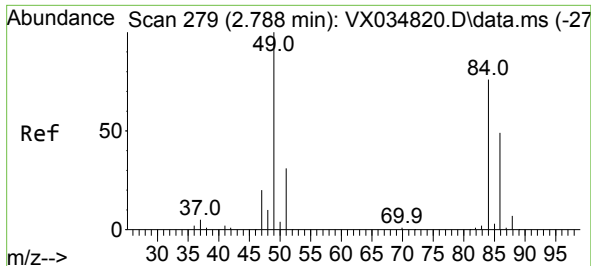
Tgt Ion: 56 Resp: 225
Ion Ratio Lower Upper
56 100
55 128.0 56.6 85.0#



#16
Acetone
Concen: 13.222 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

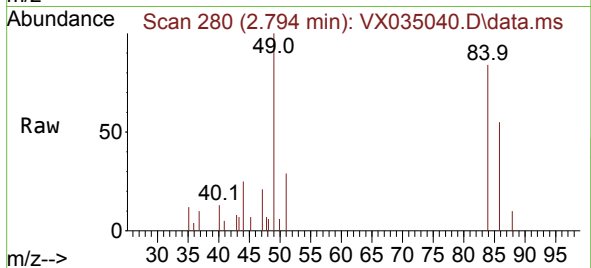
Tgt Ion: 43 Resp: 22192
Ion Ratio Lower Upper
43 100
58 32.6 24.7 37.1



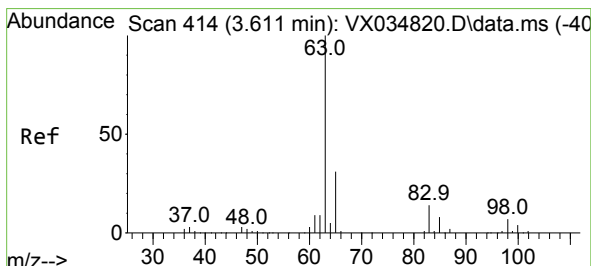
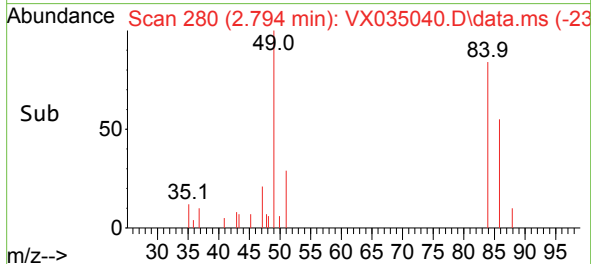
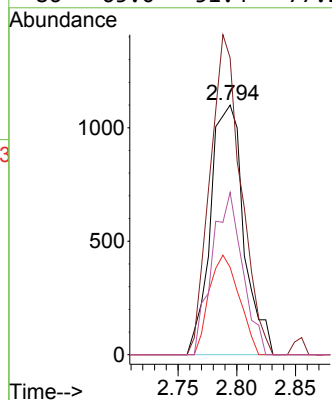


#20
Methylene Chloride
Concen: 0.657 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATERDL

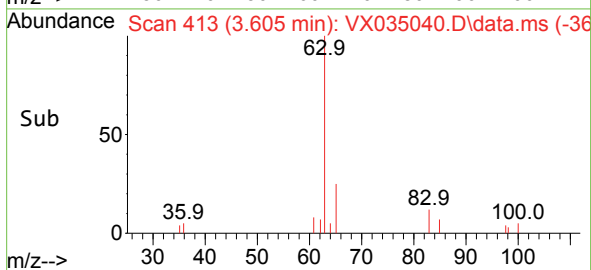
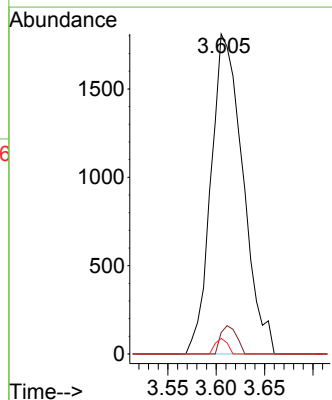
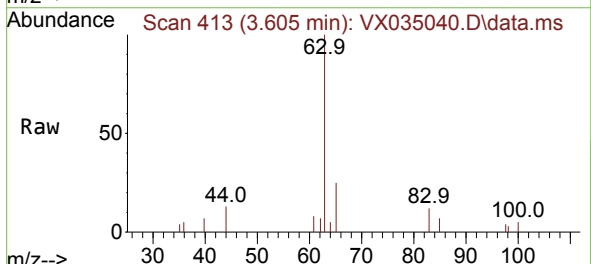


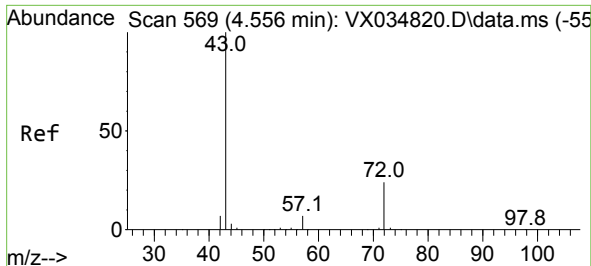
Tgt Ion: 84 Resp: 2176
Ion Ratio Lower Upper
84 100
49 118.9 103.8 155.8
51 35.0 31.8 47.8
86 65.0 51.4 77.2



#24
1,1-Dichloroethane
Concen: 0.703 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.006 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

Tgt Ion: 63 Resp: 4146
Ion Ratio Lower Upper
63 100
98 6.7 3.8 11.2
100 4.9 2.4 7.1

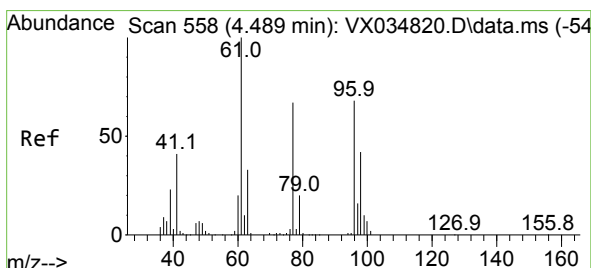
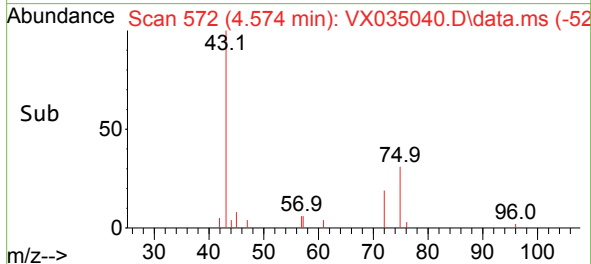
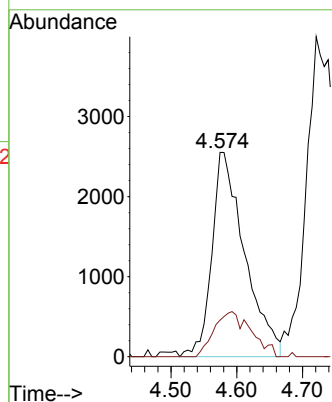
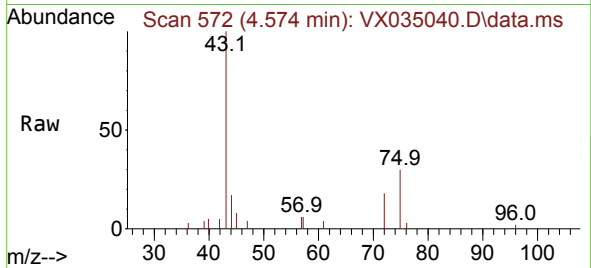




#25
2-Butanone
Concen: 3.622 ug/l
RT: 4.574 min Scan# 51
Delta R.T. 0.018 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

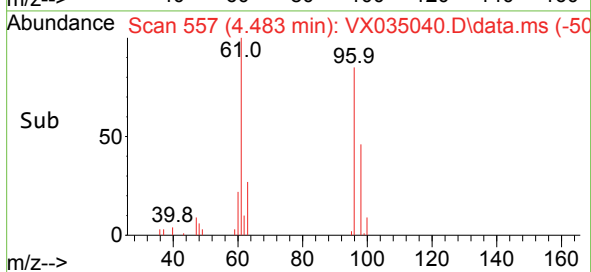
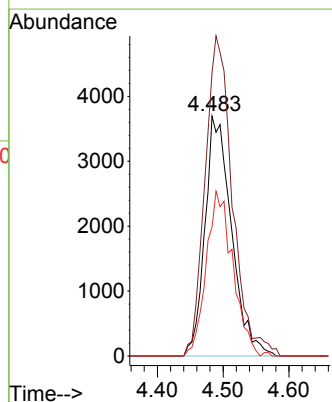
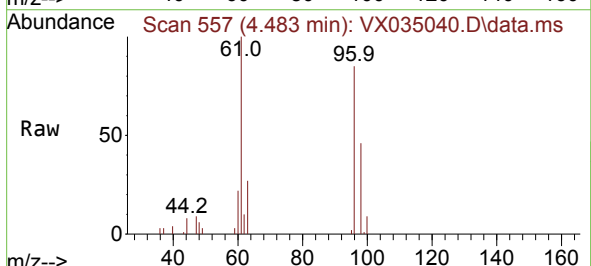
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATERDL

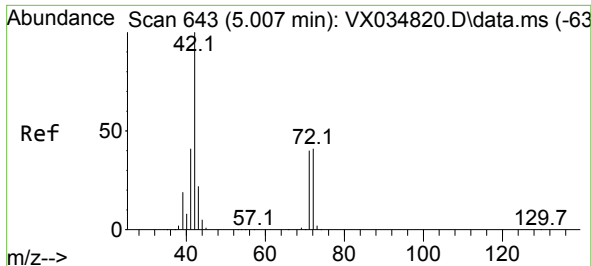
Tgt Ion: 43 Resp: 8842
Ion Ratio Lower Upper
43 100
72 17.9 19.3 28.9#



#27
cis-1,2-Dichloroethene
Concen: 2.898 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.006 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

Tgt Ion: 96 Resp: 10385
Ion Ratio Lower Upper
96 100
61 137.2 0.0 300.4
98 68.3 0.0 129.0





#29

Tetrahydrofuran

Concen: 1.117 ug/l

RT: 5.044 min Scan# 64

Delta R.T. 0.037 min

Lab File: VX035040.D

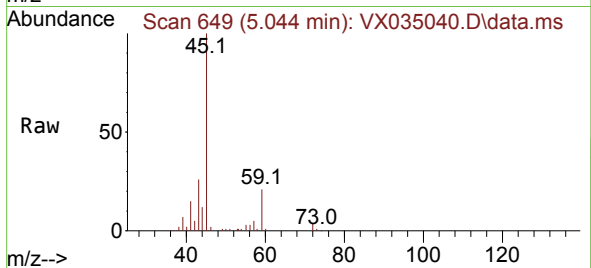
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Instrument :

MSVOA_X

ClientSampleId :

GROUND-WATERDL



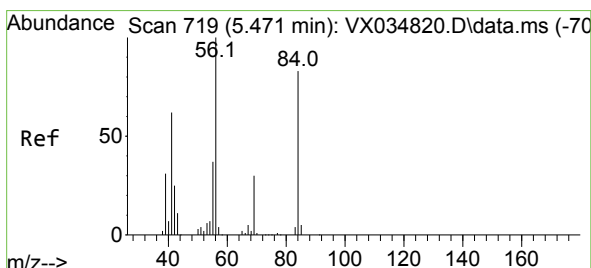
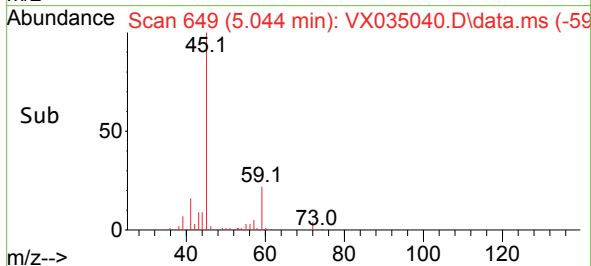
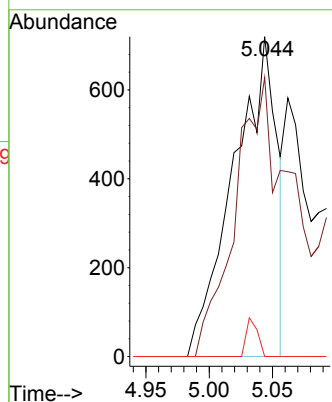
Tgt Ion: 42 Resp: 1708

Ion Ratio Lower Upper

42 100

72 110.1 34.5 51.7#

71 3.2 32.1 48.1#



#31

Cyclohexane

Concen: 1.266 ug/l

RT: 5.562 min Scan# 734

Delta R.T. 0.092 min

Lab File: VX035040.D

Acq: 12 Apr 2023 12:39

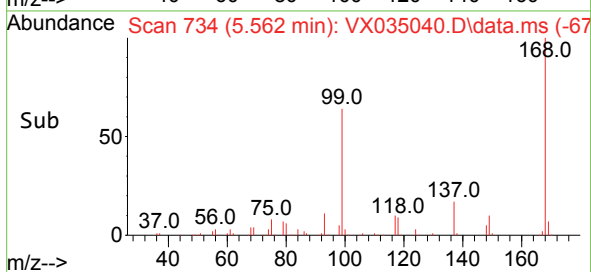
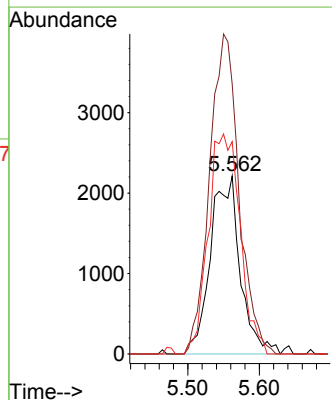
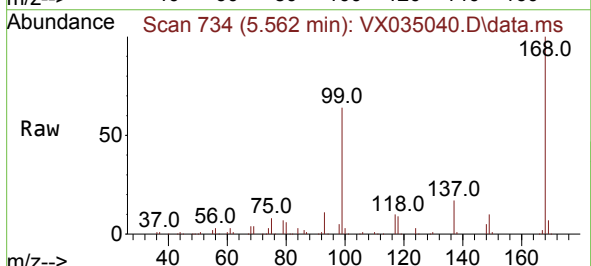
Tgt Ion: 56 Resp: 6370

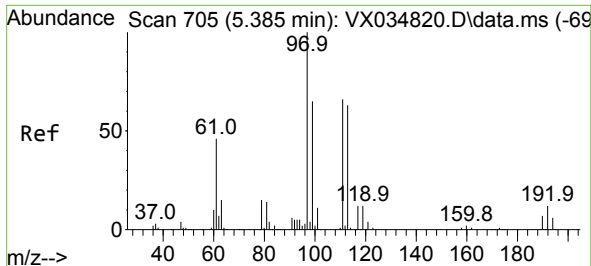
Ion Ratio Lower Upper

56 100

69 151.6 23.7 35.5#

84 119.2 68.5 102.7#

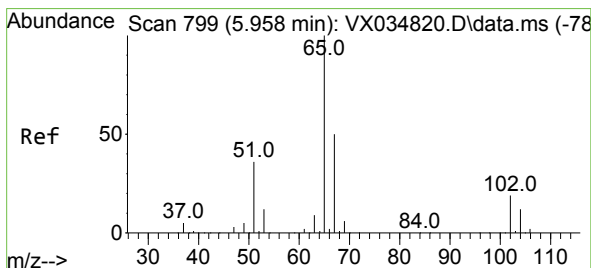
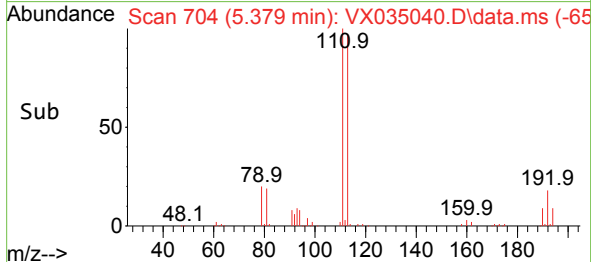
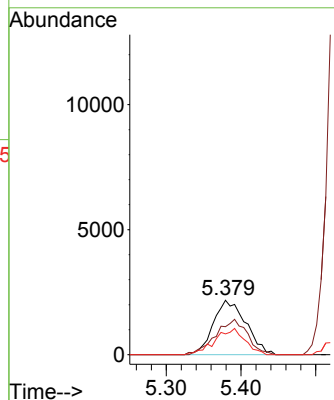
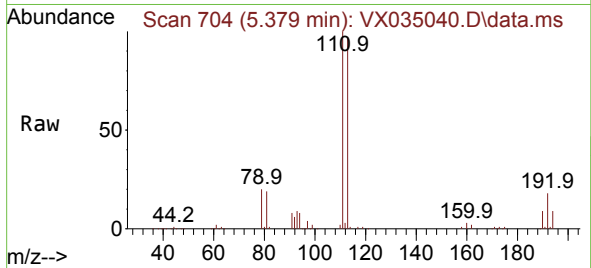




#32
1,1,1-Trichloroethane
Concen: 1.293 ug/l
RT: 5.379 min Scan# 704
Delta R.T. -0.006 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

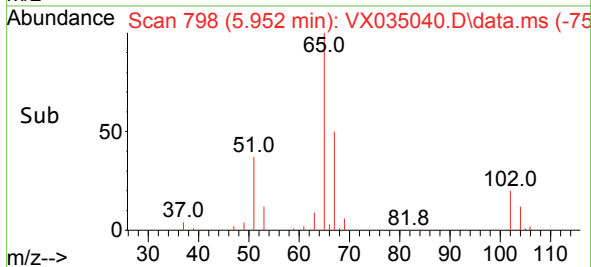
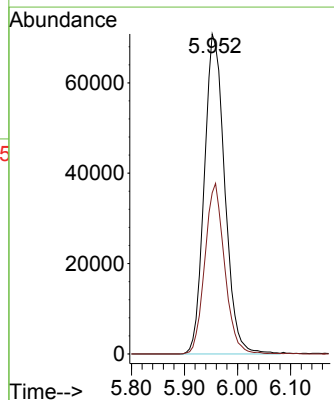
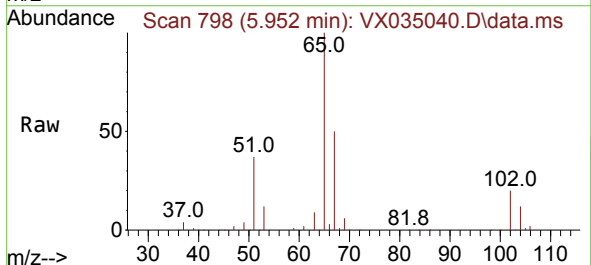
Instrument :
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GROUND-WATERDL

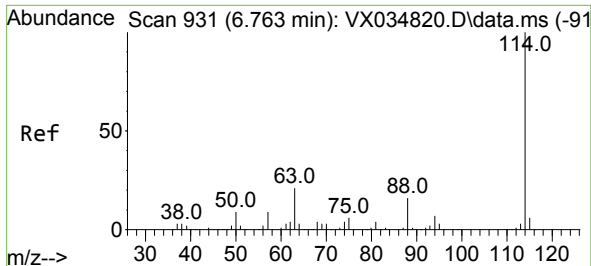
Tgt Ion: 97 Resp: 6610
Ion Ratio Lower Upper
97 100
99 0.0 51.1 76.7#
61 44.2 36.5 54.7



#33
1,2-Dichloroethane-d4
Concen: 45.938 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.006 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

Tgt Ion: 65 Resp: 189798
Ion Ratio Lower Upper
65 100
67 51.4 0.0 104.0

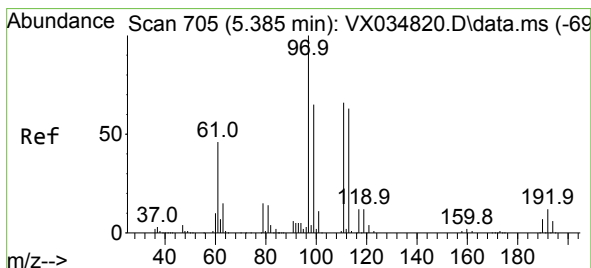
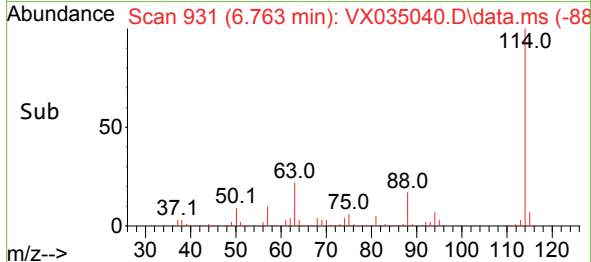
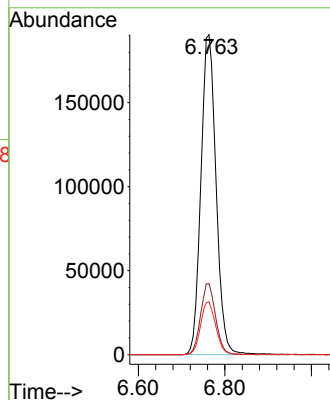
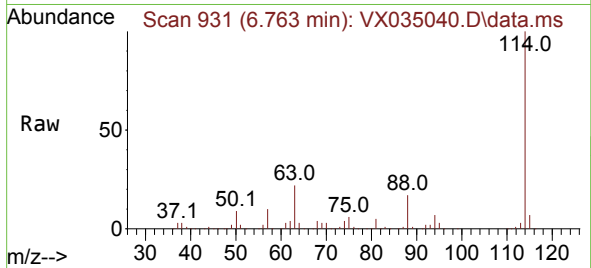




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

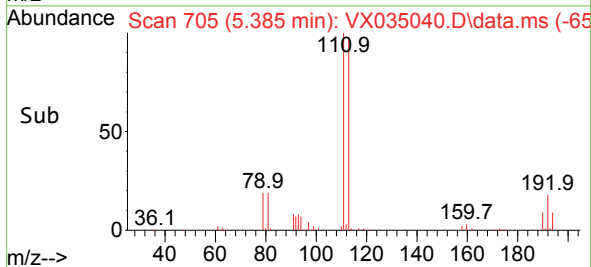
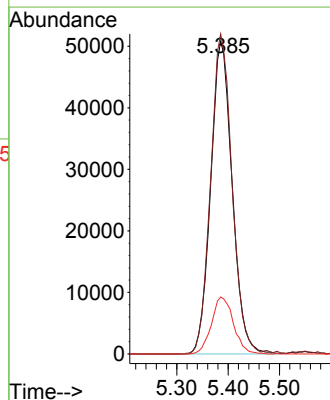
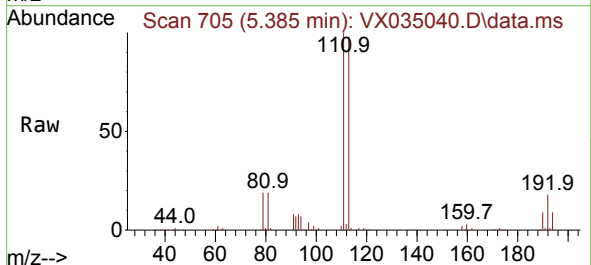
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATERDL

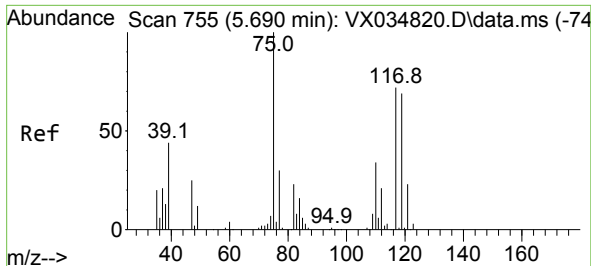
Tgt Ion:114 Resp: 462690
Ion Ratio Lower Upper
114 100
63 22.2 0.0 42.2
88 16.6 0.0 33.2



#35
Dibromofluoromethane
Concen: 48.251 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

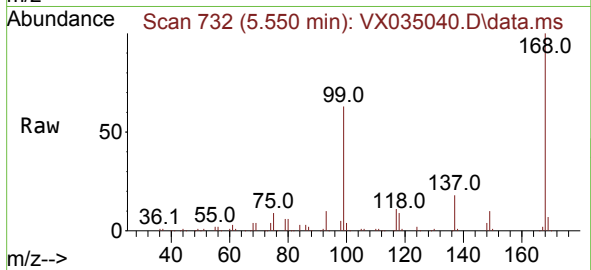
Tgt Ion:113 Resp: 147663
Ion Ratio Lower Upper
113 100
111 102.0 83.7 125.5
192 18.6 15.4 23.2



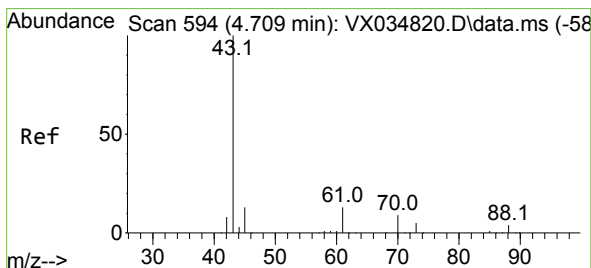
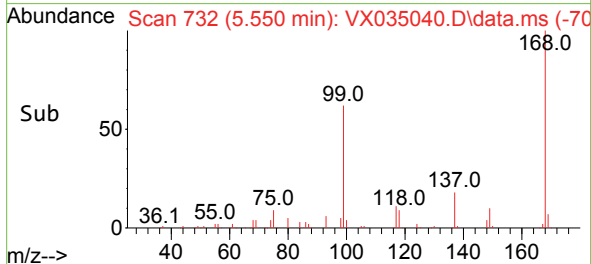
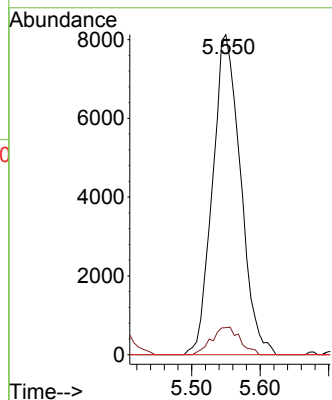


#36
1,1-Dichloropropene
Concen: 5.076 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATERDL

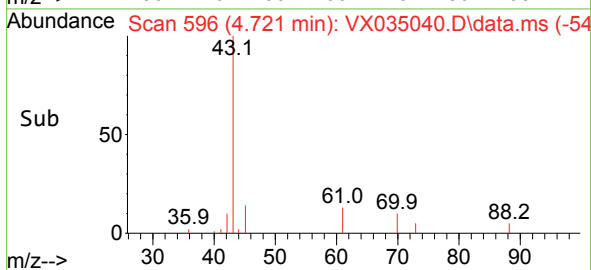
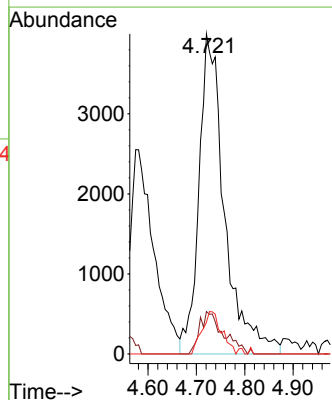
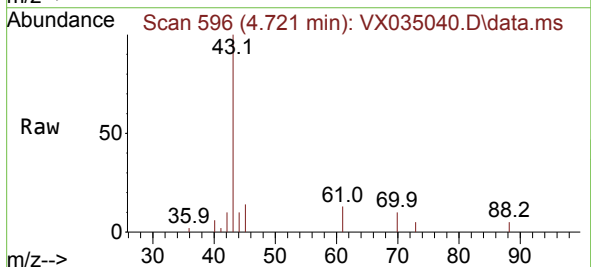


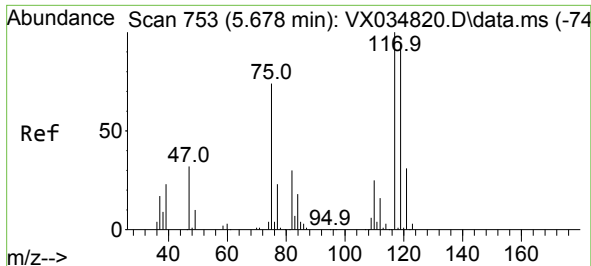
Tgt Ion: 75 Resp: 23013
Ion Ratio Lower Upper
75 100
110 8.7 17.5 52.5#
77 0.0 24.3 36.5#



#37
Ethyl Acetate
Concen: 3.097 ug/l
RT: 4.721 min Scan# 596
Delta R.T. 0.012 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

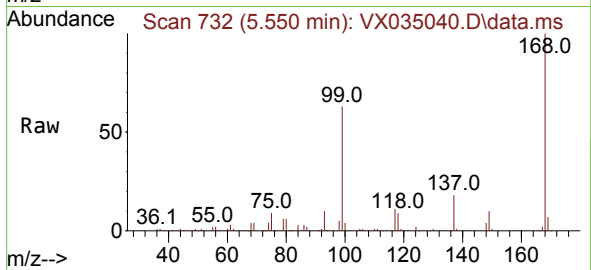
Tgt Ion: 43 Resp: 14680
Ion Ratio Lower Upper
43 100
61 12.2 10.2 15.4
70 10.1 8.2 12.4



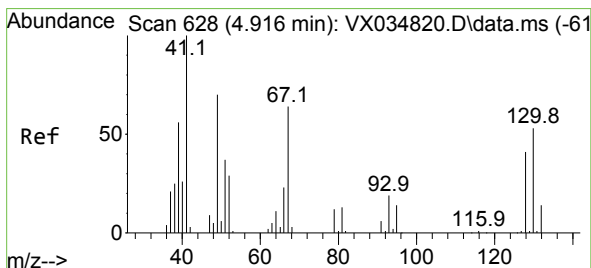
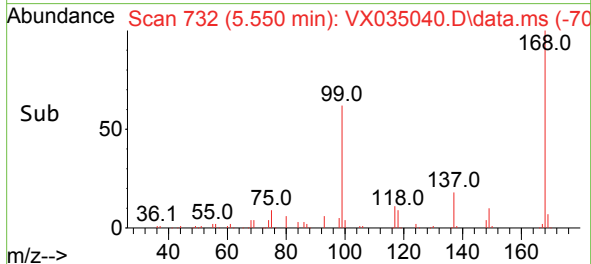
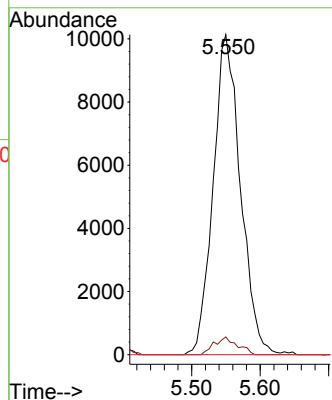


#38
Carbon Tetrachloride
Concen: 6.543 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATERDL

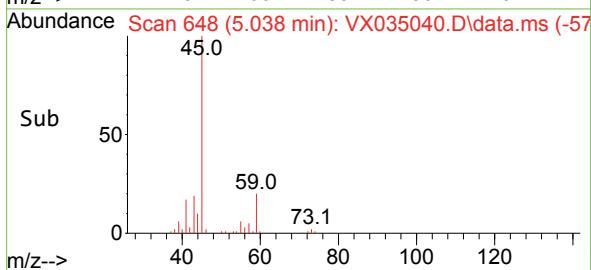
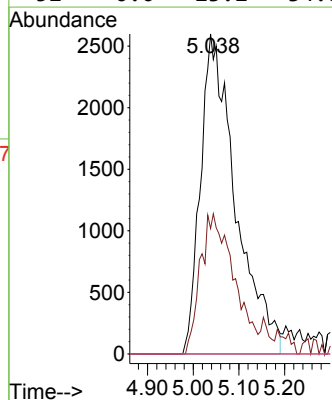
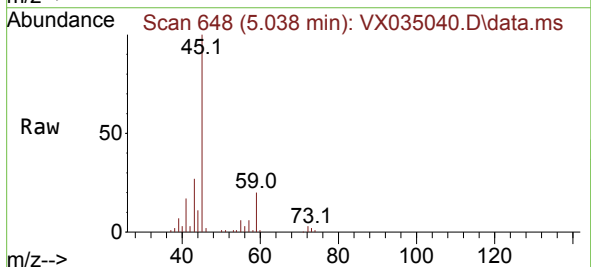


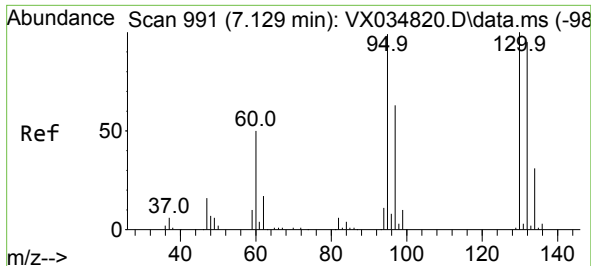
Tgt Ion:117 Resp: 27967
Ion Ratio Lower Upper
117 100
119 5.6 76.6 114.8#
121 0.0 23.8 35.6#



#41
Methacrylonitrile
Concen: 5.396 ug/l
RT: 5.038 min Scan# 648
Delta R.T. 0.122 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

Tgt Ion: 41 Resp: 13913
Ion Ratio Lower Upper
41 100
39 41.8 45.0 67.6#
67 0.0 55.6 83.4#
52 0.0 23.2 34.8#

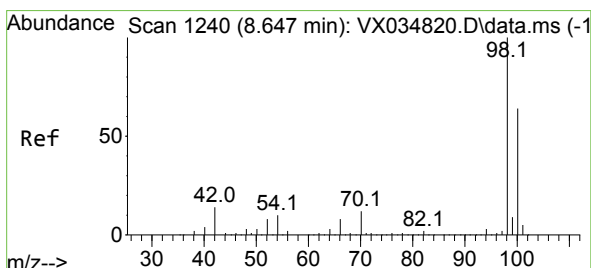
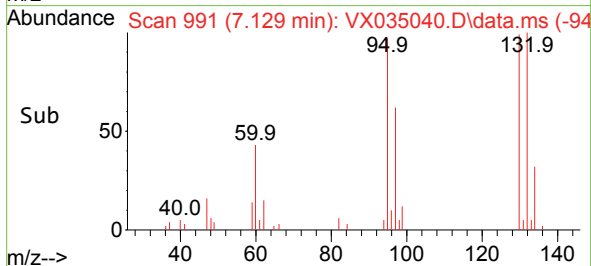
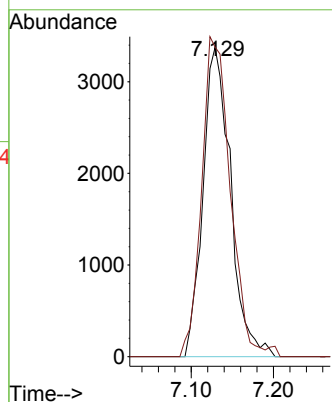
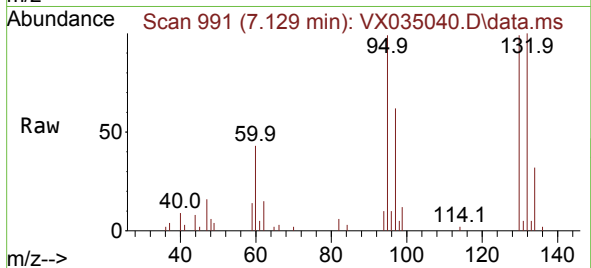




#44
Trichloroethene
Concen: 2.368 ug/l
RT: 7.129 min Scan# 991
Delta R.T. 0.000 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

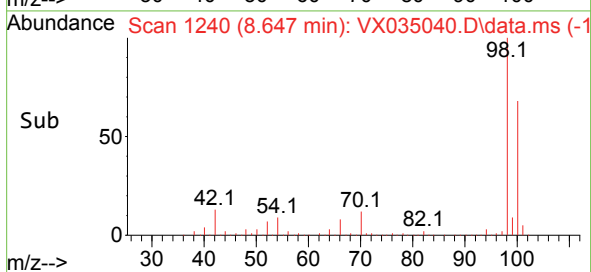
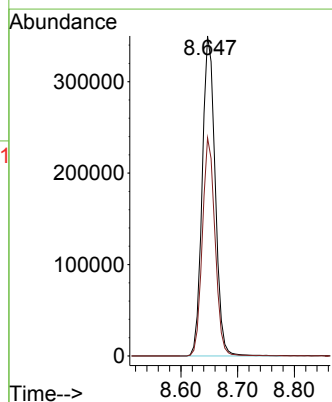
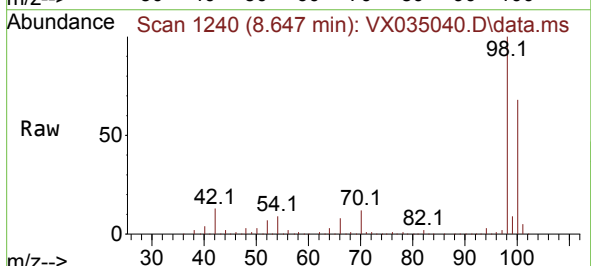
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATERDL

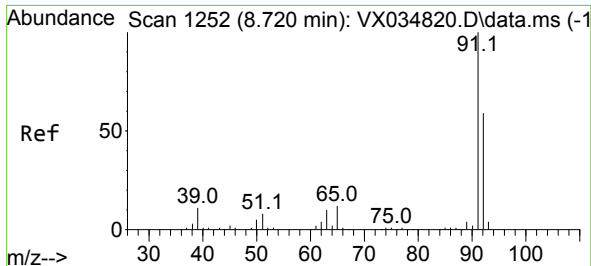
Tgt Ion:130 Resp: 7868
Ion Ratio Lower Upper
130 100
95 100.1 0.0 198.4



#50
Toluene-d8
Concen: 49.081 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

Tgt Ion: 98 Resp: 554409
Ion Ratio Lower Upper
98 100
100 66.8 52.5 78.7

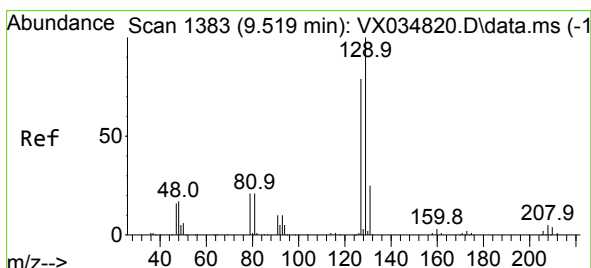
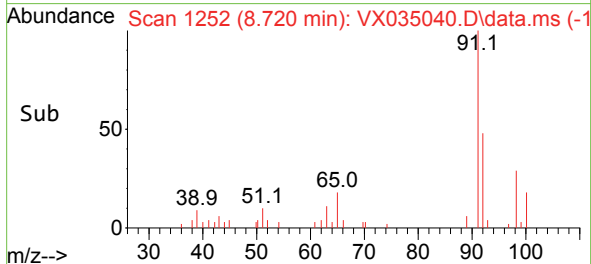
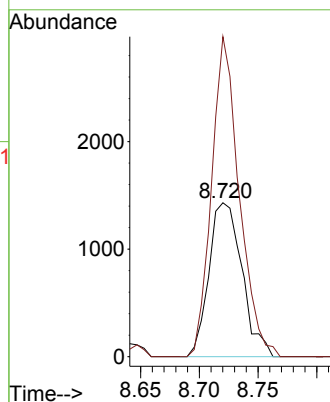
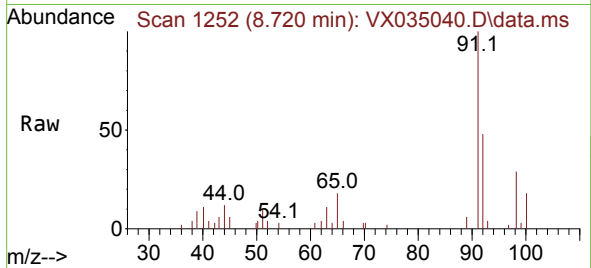




#52
Toluene
Concen: 0.329 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

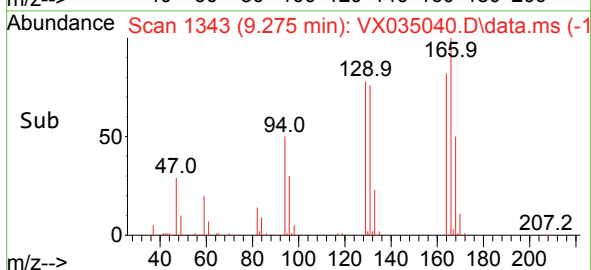
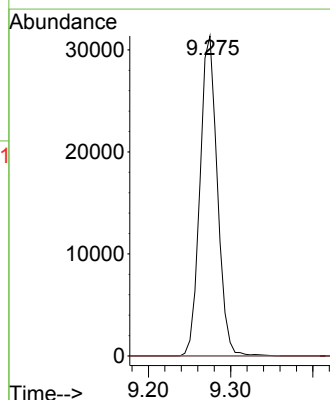
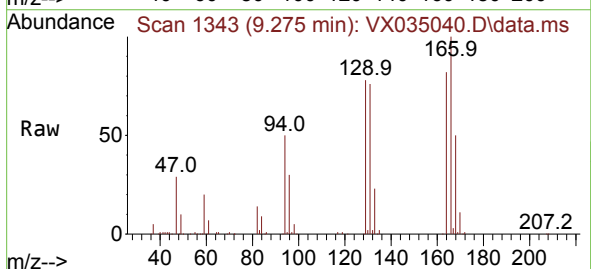
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATERDL

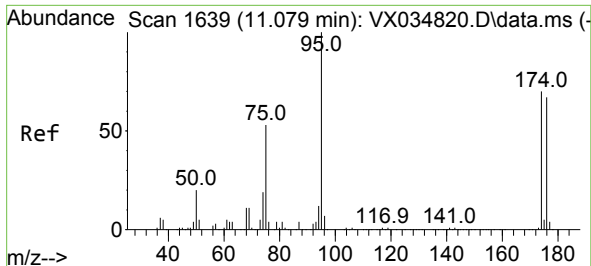
Tgt Ion: 92 Resp: 2795
Ion Ratio Lower Upper
92 100
91 174.3 136.8 205.2



#60
Dibromochloromethane
Concen: 15.090 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.244 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

Tgt Ion: 129 Resp: 46169
Ion Ratio Lower Upper
129 100
127 0.0 39.0 117.0#

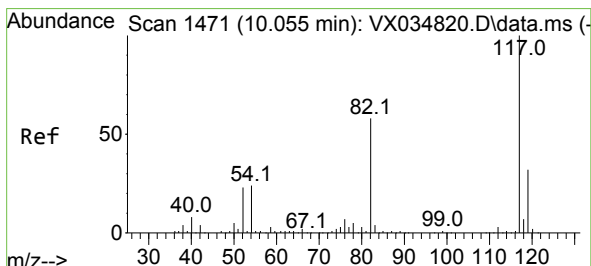
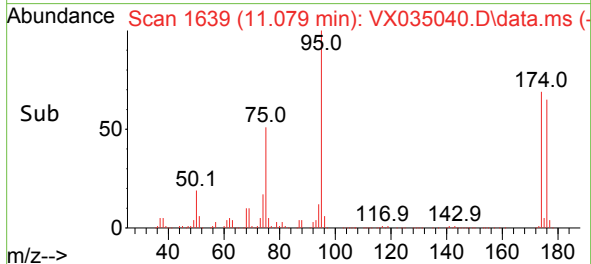
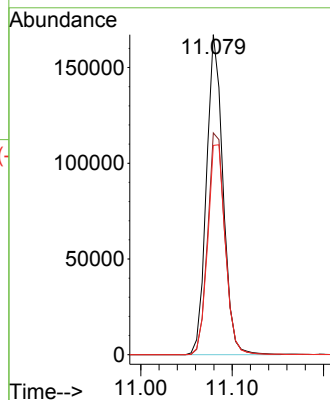
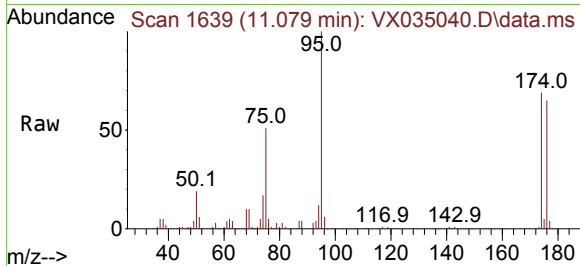




#62
4-Bromofluorobenzene
Concen: 47.921 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

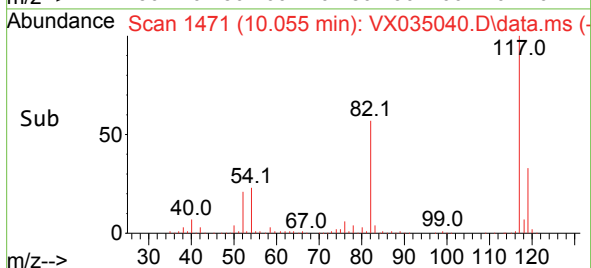
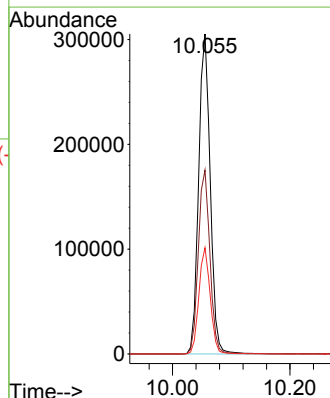
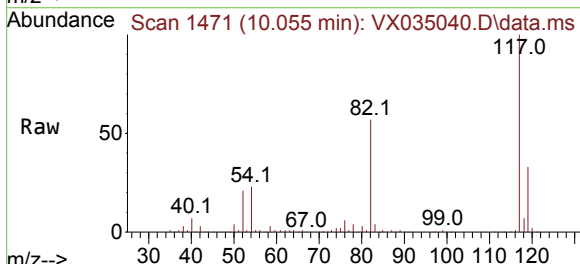
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATERDL

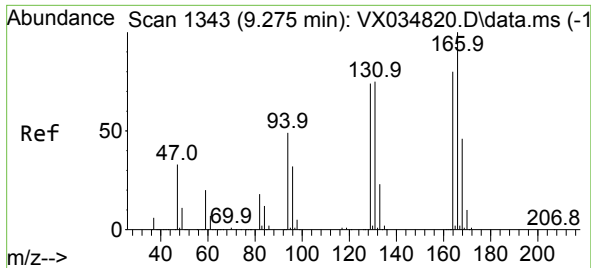
Tgt Ion: 95 Resp: 209474
Ion Ratio Lower Upper
95 100
174 72.6 0.0 147.4
176 70.1 0.0 140.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

Tgt Ion: 117 Resp: 416990
Ion Ratio Lower Upper
117 100
82 57.4 45.0 67.4
119 33.2 26.0 39.0

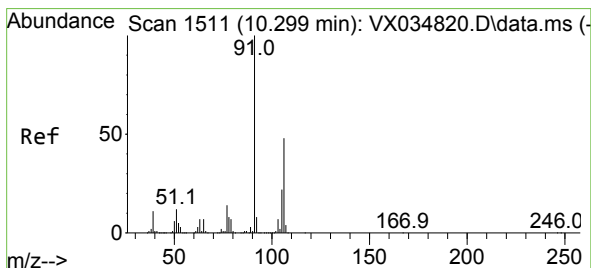
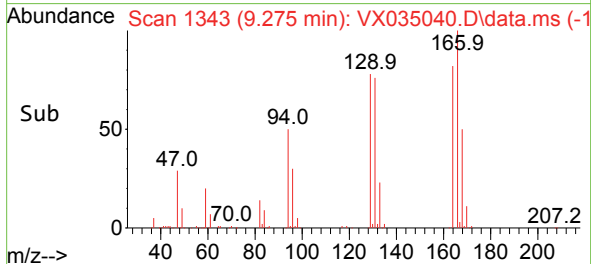
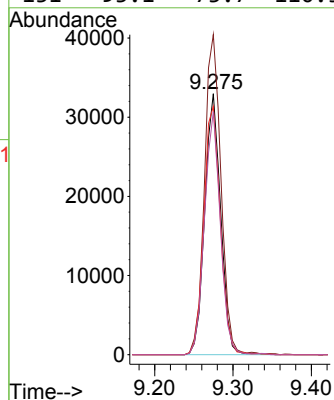
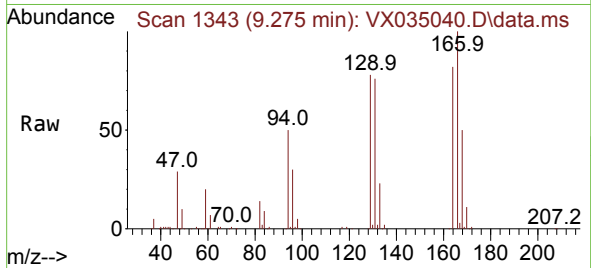




#64
Tetrachloroethene
Concen: 15.585 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

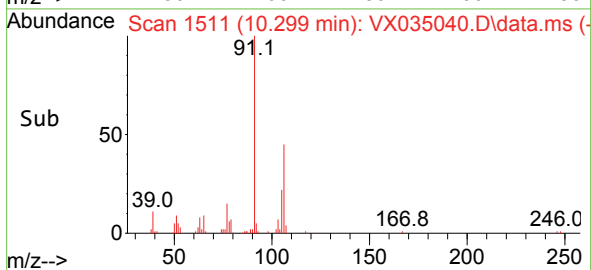
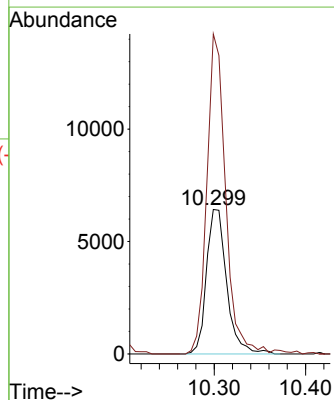
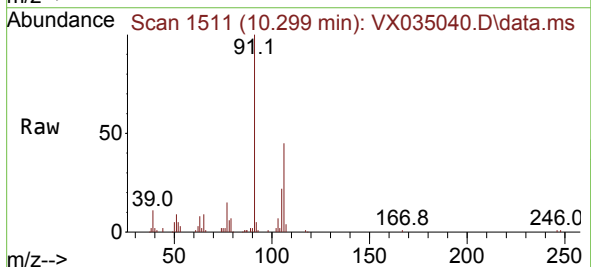
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATERDL

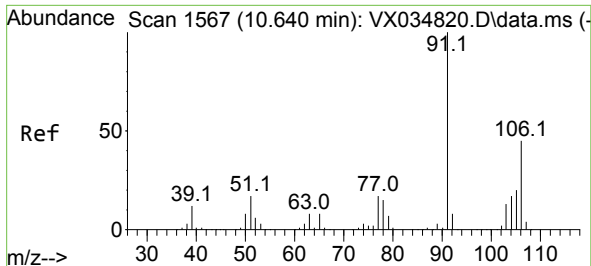
Tgt Ion:164 Resp: 46507
Ion Ratio Lower Upper
164 100
166 122.6 102.7 154.1
129 95.2 75.6 113.4
131 93.1 73.7 110.5



#68
m/p-Xylenes
Concen: 1.646 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

Tgt Ion:106 Resp: 9883
Ion Ratio Lower Upper
106 100
91 206.7 164.0 246.0

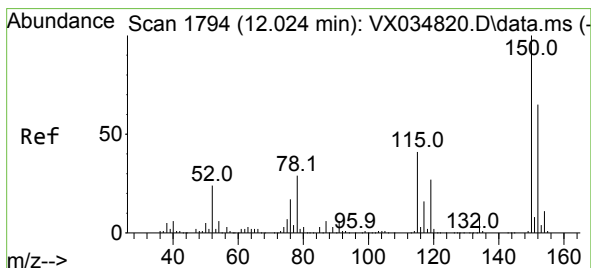
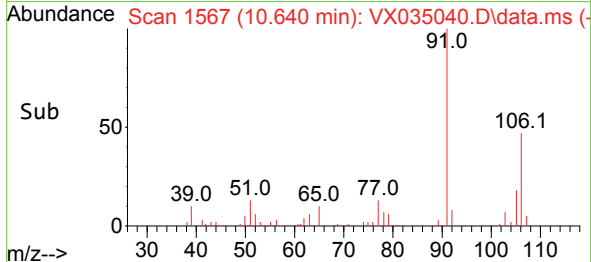
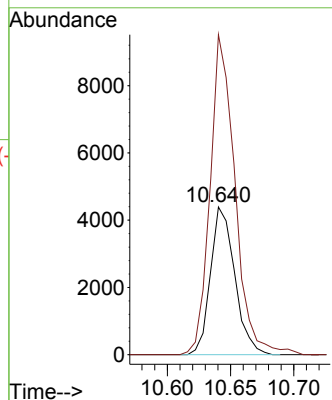
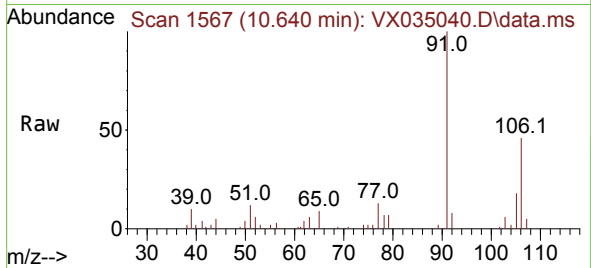




#69
o-Xylene
Concen: 0.995 ug/l
RT: 10.640 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

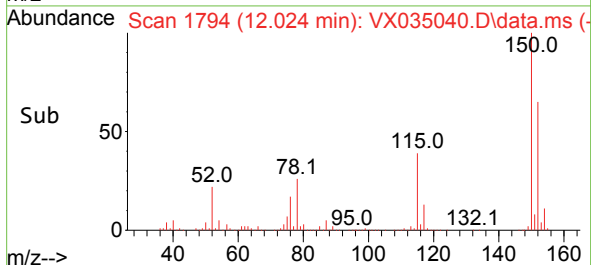
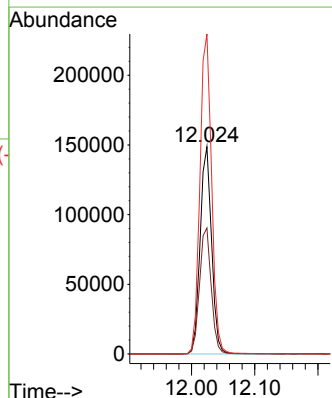
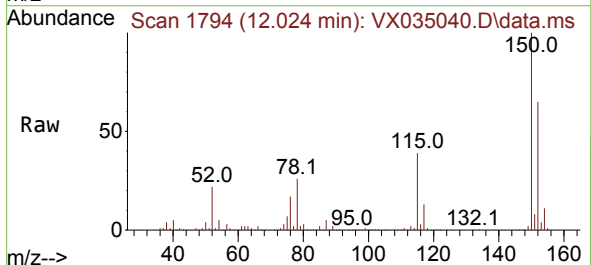
Instrument :
MSVOA_X
ClientSampleId :
GROUND-WATERDL

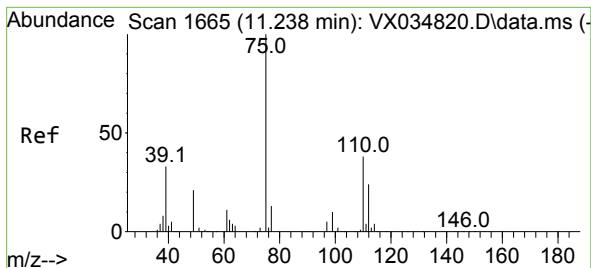
Tgt Ion:106 Resp: 5851
Ion Ratio Lower Upper
106 100
91 223.1 108.5 325.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX035040.D
Acq: 12 Apr 2023 12:39

Tgt Ion:152 Resp: 187975
Ion Ratio Lower Upper
152 100
115 62.1 45.0 135.0
150 157.0 0.0 352.4





#76

1,2,3-Trichloropropane

Concen: 28.287 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX035040.D

Acq: 12 Apr 2023 12:39

Instrument :

MSVOA_X

ClientSampleId :

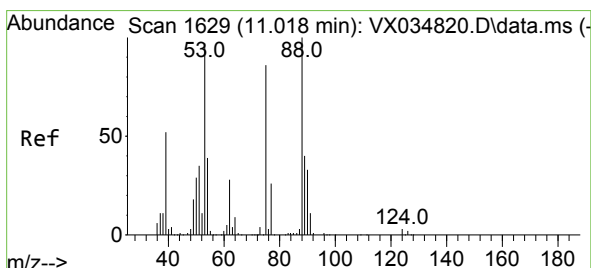
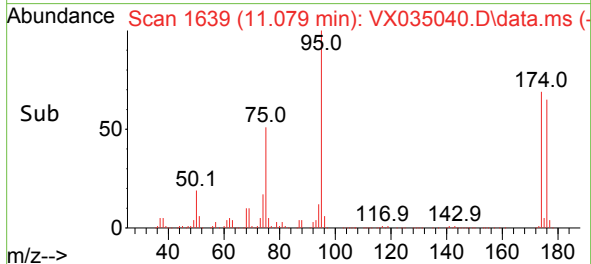
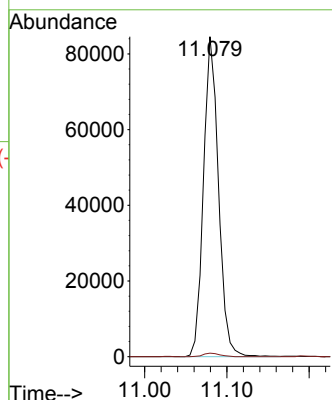
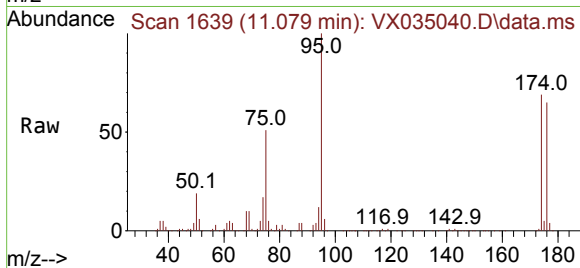
GROUND-WATERDL

Tgt Ion: 75 Resp: 107138

Ion Ratio Lower Upper

75 100

77 1.2 21.6 64.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 84.774 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX035040.D

Acq: 12 Apr 2023 12:39

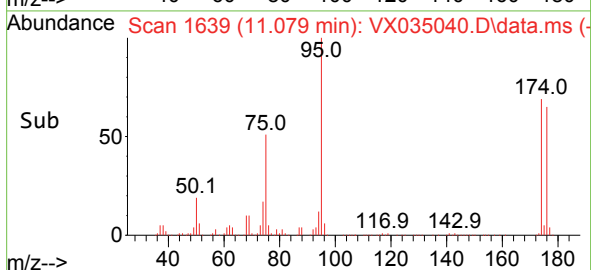
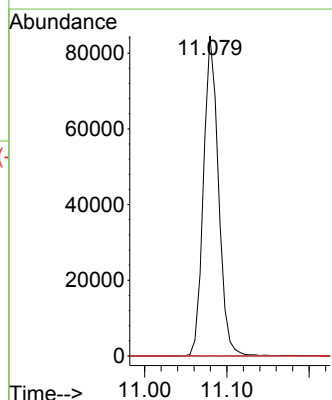
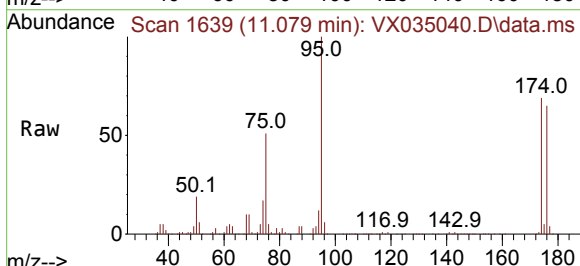
Tgt Ion: 75 Resp: 107138

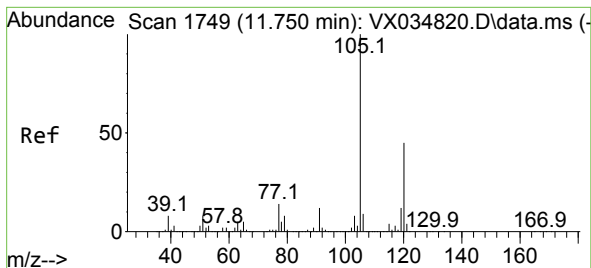
Ion Ratio Lower Upper

75 100

53 0.0 82.6 124.0#

89 0.0 36.9 55.3#





#84

1,2,4-Trimethylbenzene

Concen: 0.243 ug/l

RT: 11.756 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX035040.D

Acq: 12 Apr 2023 12:39

Instrument :

MSVOA_X

ClientSampleId :

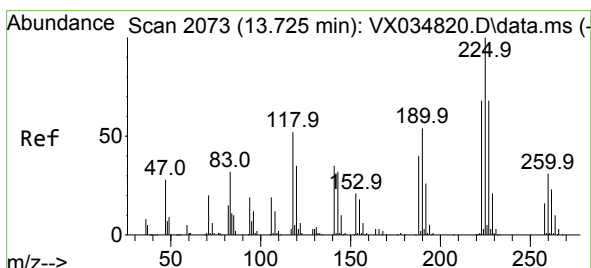
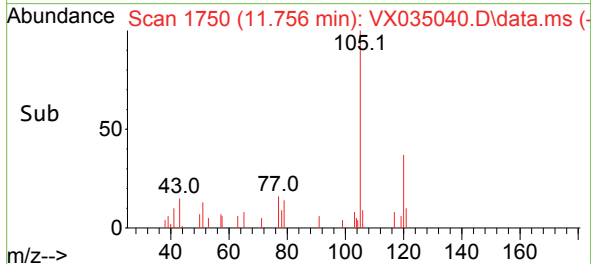
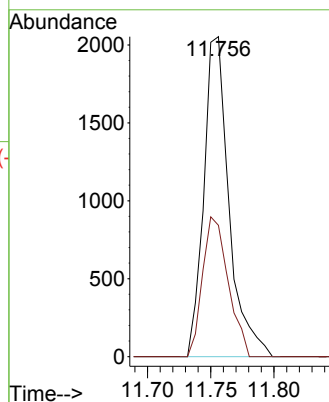
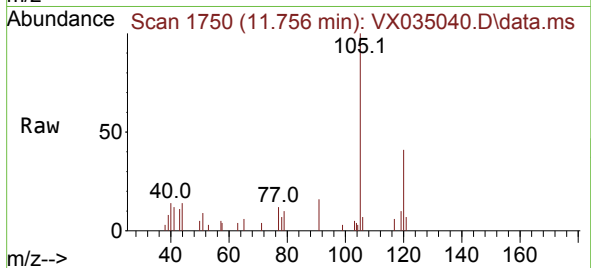
GROUND-WATERDL

Tgt Ion:105 Resp: 2844

Ion Ratio Lower Upper

105 100

120 44.4 22.4 67.0



#94

Hexachlorobutadiene

Concen: 0.401 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX035040.D

Acq: 12 Apr 2023 12:39

Tgt Ion:225 Resp: 621

Ion Ratio Lower Upper

225 100

223 80.0 32.1 96.5

227 94.5 31.8 95.4

