

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111821\
 Data File : VN069557.D
 Acq On : 18 Nov 2021 17:00
 Operator : JC/MD
 Sample : M4739-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 19 03:19:32 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110921W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 09 18:18:22 2021
 Response via : Initial Calibration

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

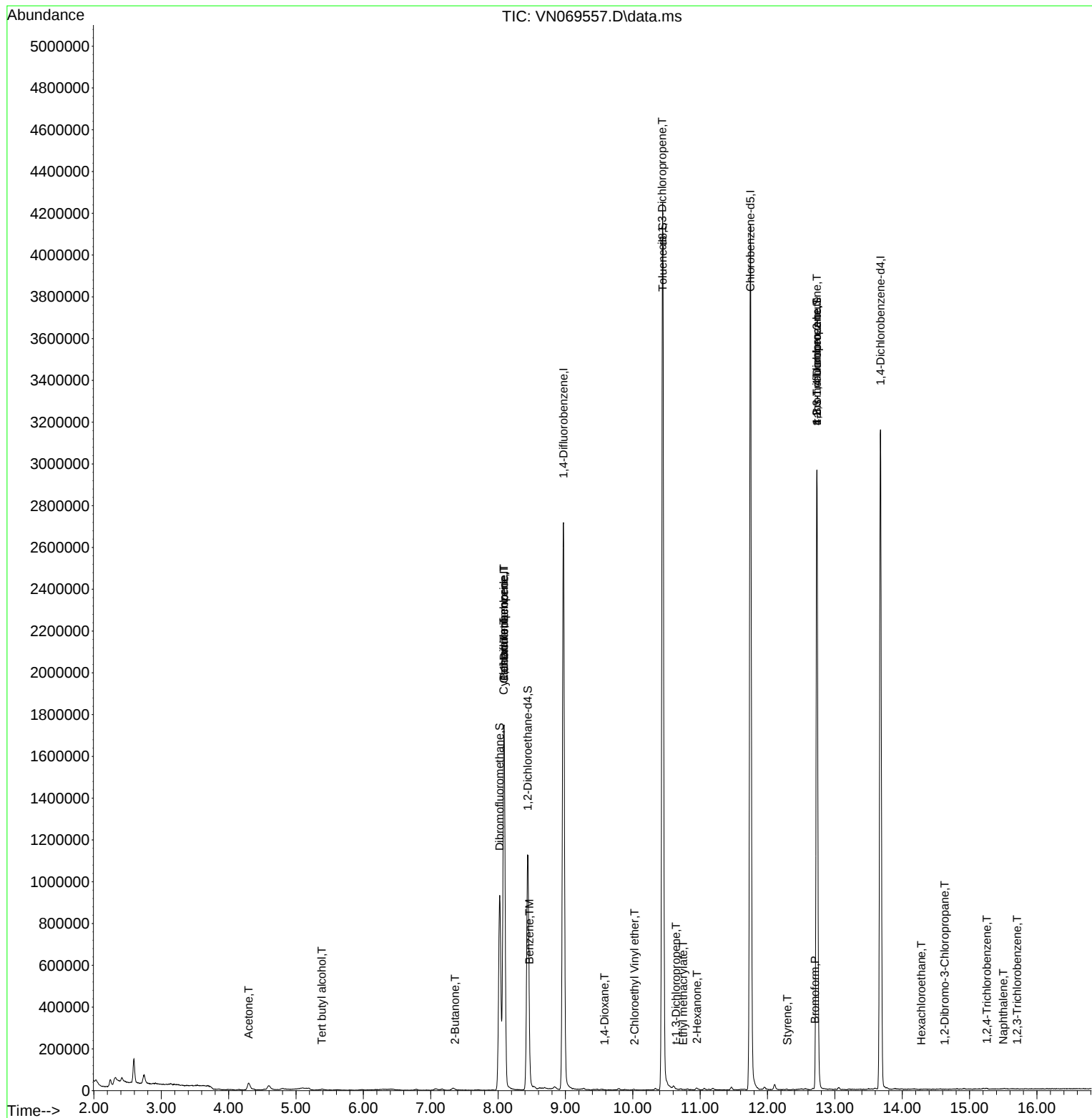
Internal Standards						
1) Pentafluorobenzene	8.088	168	1306087	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.971	114	2304257	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	2298777	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	846693	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	981892	51.849	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery = 103.700%			
35) Dibromofluoromethane	8.024	113	674287	48.791	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery = 97.580%			
50) Toluene-d8	10.443	98	2932306	53.949	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery = 107.900%			
62) 4-Bromofluorobenzene	12.734	95	1024122	51.289	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery = 102.580%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.382	59	2425	0.711	ug/l #	71
13) Acrolein	4.039	56	149	Below Cal	#	1
16) Acetone	4.296	43	58747	5.750	ug/l	95
25) 2-Butanone	7.359	43	4341	0.314	ug/l	99
31) Cyclohexane	8.083	56	35795	1.384	ug/l #	46
36) 1,1-Dichloropropene	8.088	75	114394	5.900	ug/l #	48
38) Carbon Tetrachloride	8.086	117	135152	7.220	ug/l #	16
40) Benzene	8.464	78	20346	0.340	ug/l #	88
49) 1,4-Dioxane	9.580	88	57	39.198	ug/l #	1
53) t-1,3-Dichloropropene	10.642	75	27	2.638	ug/l #	1
54) cis-1,3-Dichloropropene	10.438	75	257	1.742	ug/l #	1
56) Ethyl methacrylate	10.749	69	298	2.063	ug/l #	52
58) 2-Chloroethyl Vinyl ether	10.025	63	30	22.774	ug/l #	45
59) 2-Hexanone	10.953	43	6953	8.235	ug/l	63
70) Styrene	12.294	104	371	1.527	ug/l #	68
71) Bromoform	12.704	173	49	3.431	ug/l #	29
76) 1,2,3-Trichloropropane	12.734	75	582264	29.799	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.734	75	582264	84.222	ug/l #	5
90) Hexachloroethane	14.284	117	210	2.183	ug/l #	6
92) 1,2-Dibromo-3-Chloropr...	14.630	75	25	1.803	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.255	180	51	3.117	ug/l #	52
95) Naphthalene	15.501	128	1066	4.477	ug/l #	76
96) 1,2,3-Trichlorobenzene	15.705	180	268	3.189	ug/l	66

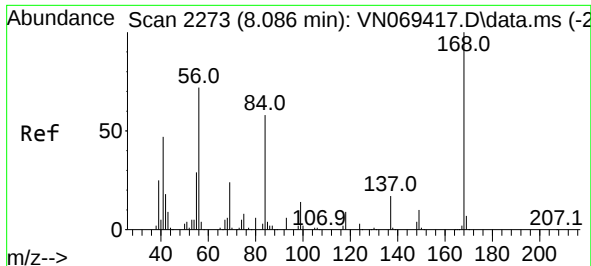
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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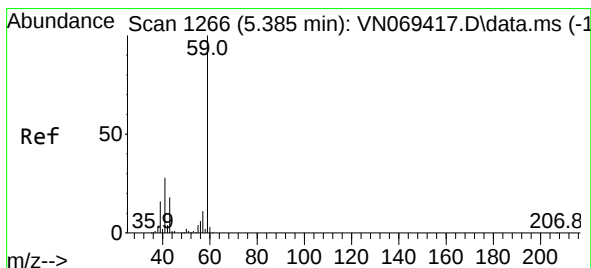
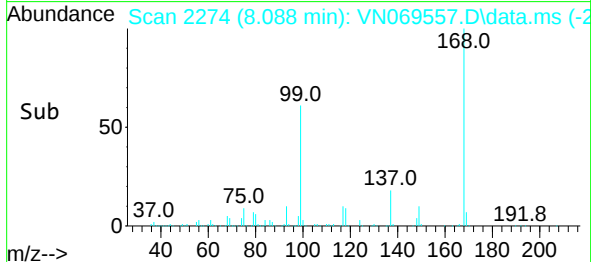
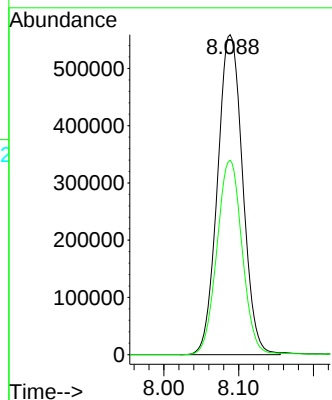
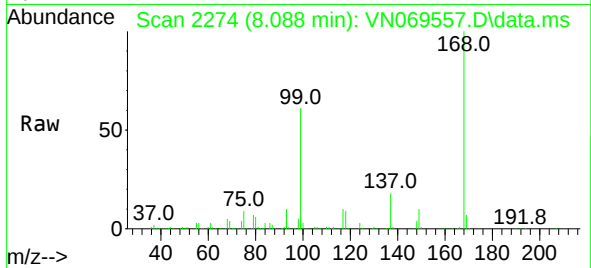




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

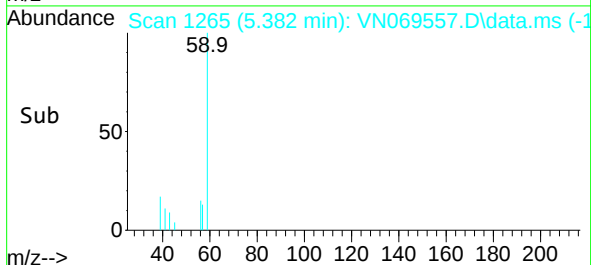
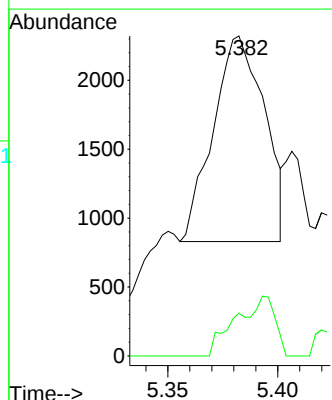
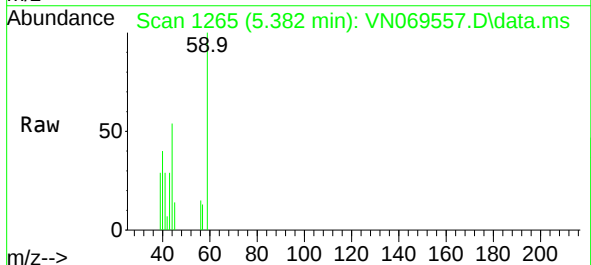
Instrument :
MSVOA_N
ClientSampleId :

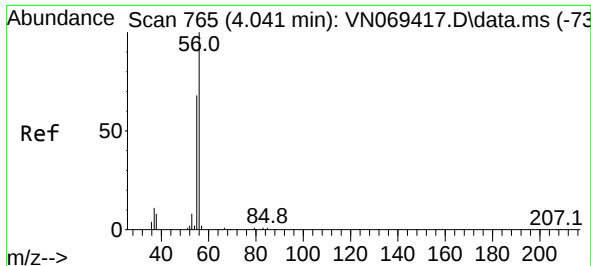
Tgt Ion:168 Resp: 1306087
Ion Ratio Lower Upper
168 100
99 60.8 41.3 61.9



#11
Tert butyl alcohol
Concen: 0.711 ug/l
RT: 5.382 min Scan# 1265
Delta R.T. -0.003 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

Tgt Ion: 59 Resp: 2425
Ion Ratio Lower Upper
59 100
57 21.9 8.7 13.1#

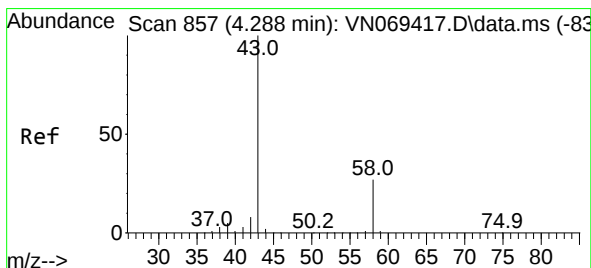
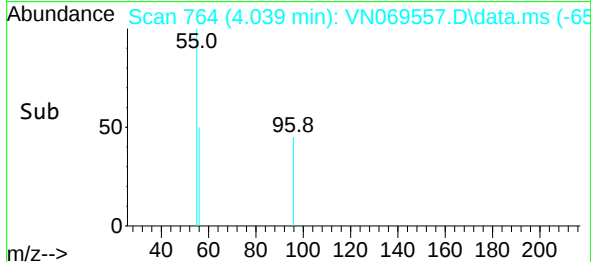
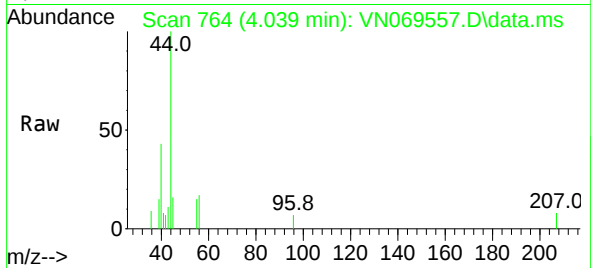




#13
Acrolein
Concen: Below Cal
RT: 4.039 min Scan# 765
Delta R.T. -0.002 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

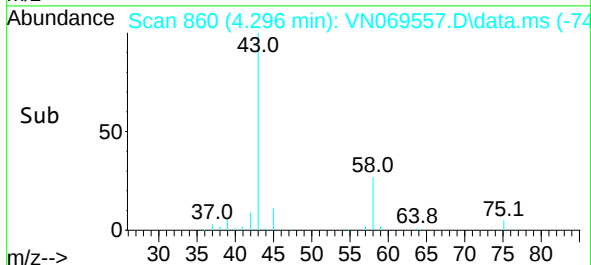
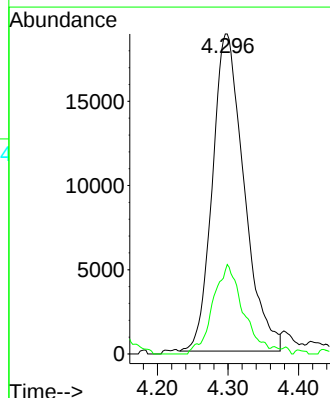
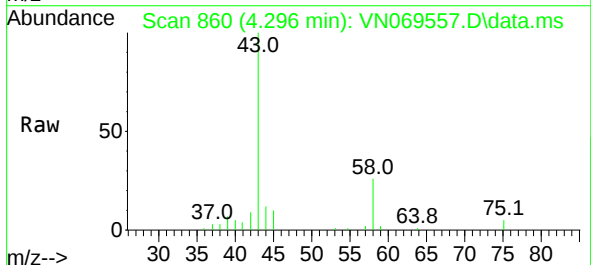
Instrument :
MSVOA_N
ClientSampleId :

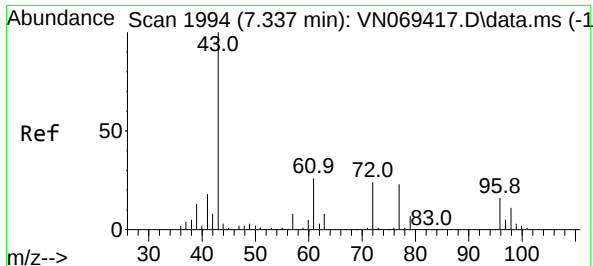
Tgt Ion: 56 Resp: 149
Ion Ratio Lower Upper
56 100
55 365.1 56.6 85.0#



#16
Acetone
Concen: 5.750 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.008 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

Tgt Ion: 43 Resp: 58747
Ion Ratio Lower Upper
43 100
58 26.3 23.1 34.7





#25

2-Butanone

Concen: 0.314 ug/l

RT: 7.359 min Scan# 20

Delta R.T. 0.022 min

Lab File: VN069557.D

Acq: 18 Nov 2021 17:00

Instrument :

MSVOA_N

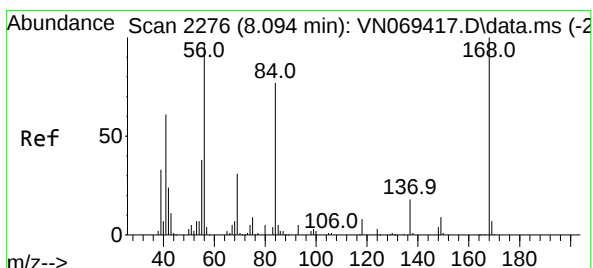
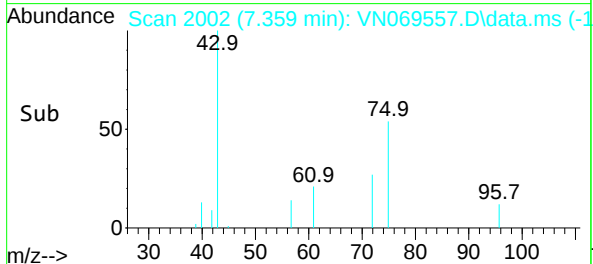
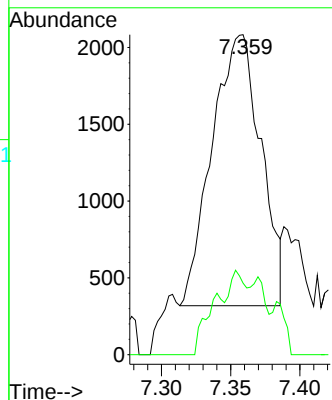
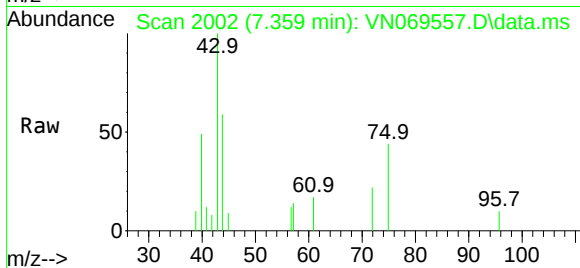
ClientSampleId :

Tgt Ion: 43 Resp: 4341

Ion Ratio Lower Upper

43 100

72 26.4 21.7 32.5



#31

Cyclohexane

Concen: 1.384 ug/l

RT: 8.083 min Scan# 2272

Delta R.T. -0.011 min

Lab File: VN069557.D

Acq: 18 Nov 2021 17:00

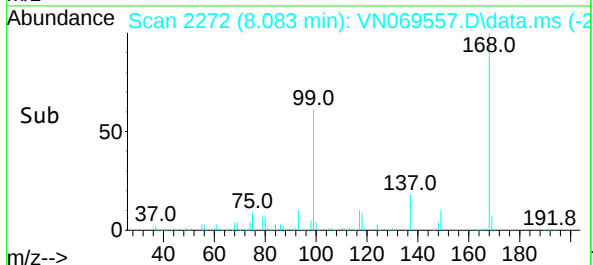
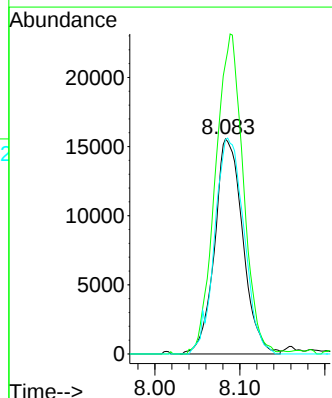
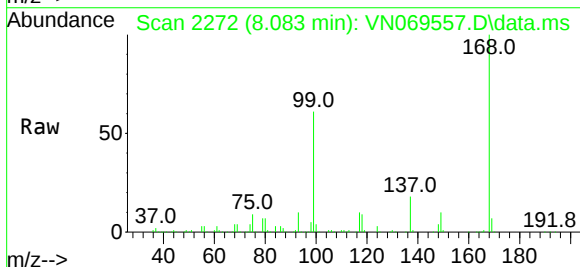
Tgt Ion: 56 Resp: 35795

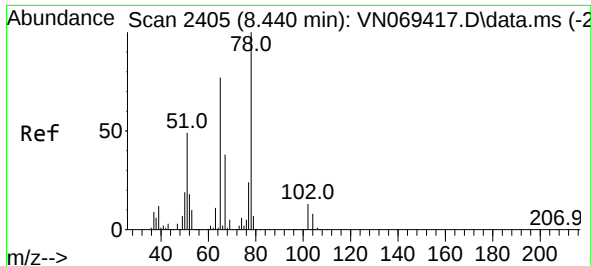
Ion Ratio Lower Upper

56 100

69 135.2 27.1 40.7#

84 99.7 73.4 110.0





#33

1,2-Dichloroethane-d4

Concen: 51.849 ug/l

RT: 8.440 min Scan# 2405

Delta R.T. -0.000 min

Lab File: VN069557.D

Acq: 18 Nov 2021 17:00

Instrument :

MSVOA_N

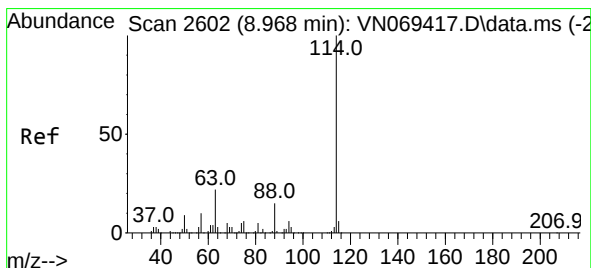
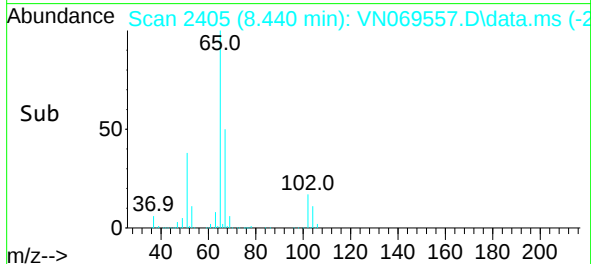
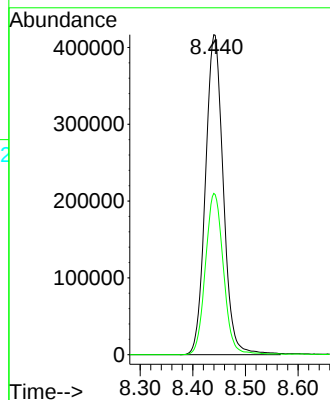
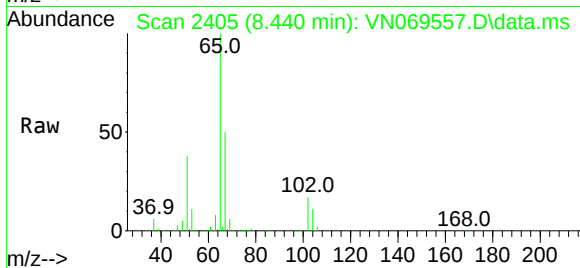
ClientSampleId :

Tgt Ion: 65 Resp: 981892

Ion Ratio Lower Upper

65 100

67 50.9 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.971 min Scan# 2603

Delta R.T. 0.003 min

Lab File: VN069557.D

Acq: 18 Nov 2021 17:00

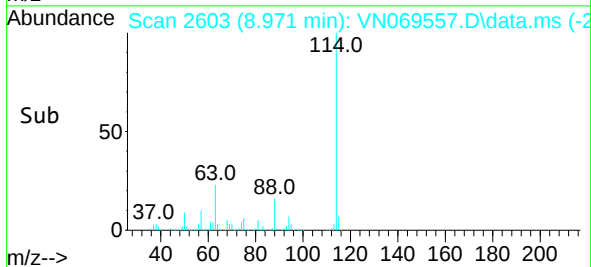
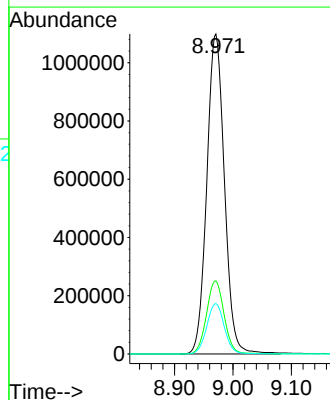
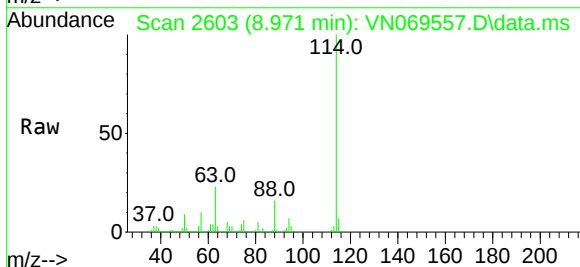
Tgt Ion: 114 Resp: 2304257

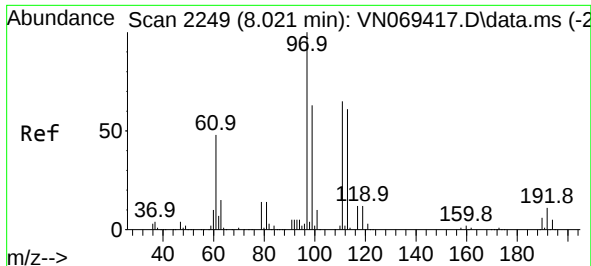
Ion Ratio Lower Upper

114 100

63 22.8 0.0 37.8

88 15.7 0.0 27.4

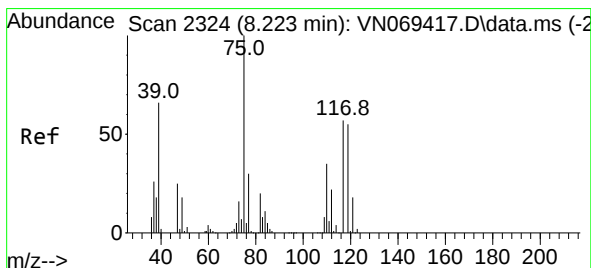
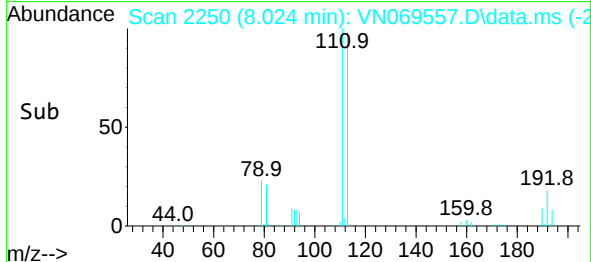
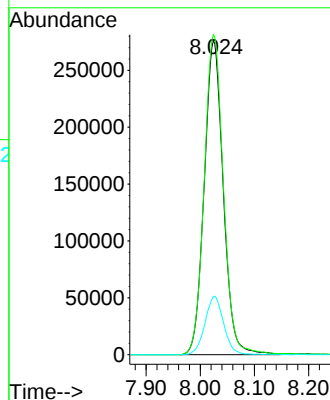
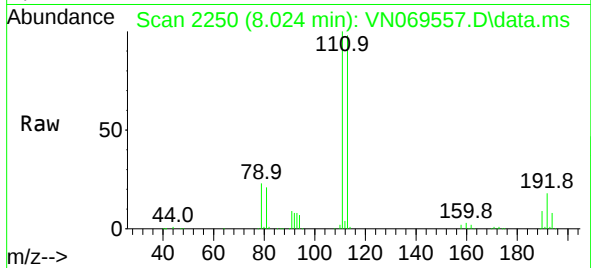




#35
Dibromofluoromethane
Concen: 48.791 ug/l
RT: 8.024 min Scan# 211
Delta R.T. 0.003 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

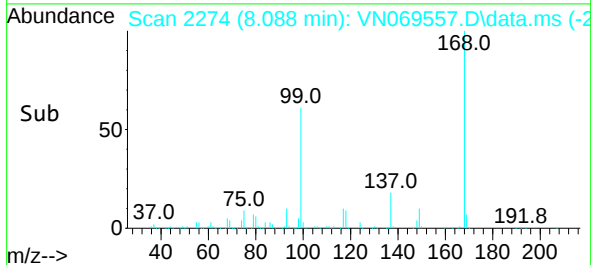
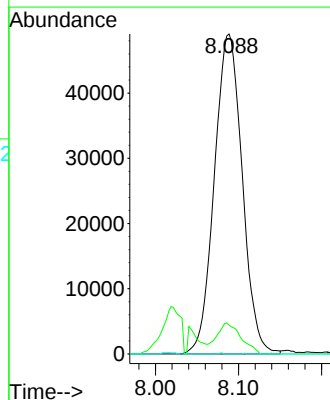
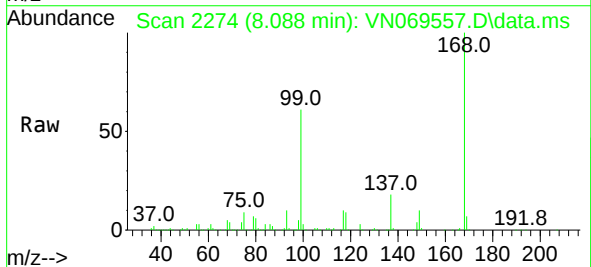
Instrument :
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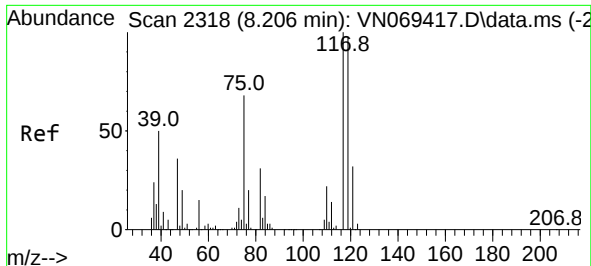
Tgt Ion:113 Resp: 674287
Ion Ratio Lower Upper
113 100
111 102.9 82.2 123.2
192 18.2 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.900 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.135 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

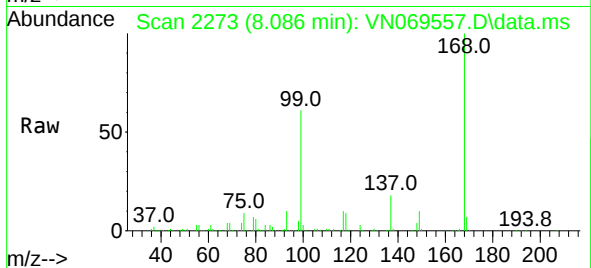
Tgt Ion: 75 Resp: 114394
Ion Ratio Lower Upper
75 100
110 8.3 18.4 55.2#
77 0.0 24.4 36.6#



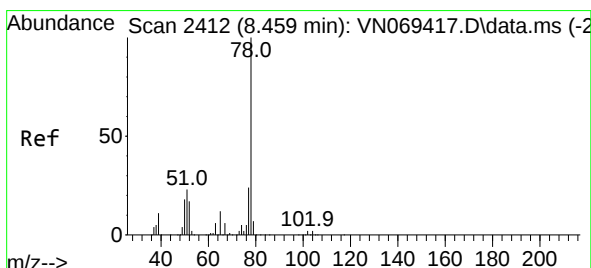
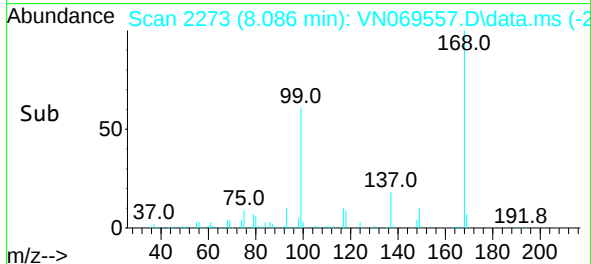
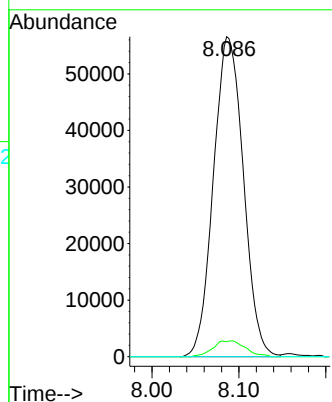


#38
Carbon Tetrachloride
Concen: 7.220 ug/l
RT: 8.086 min Scan# 211
Delta R.T. -0.120 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

Instrument :
MSVOA_N
ClientSampleId :

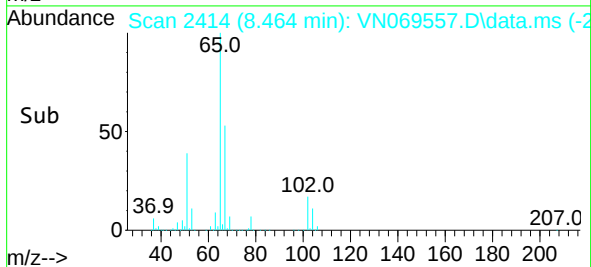
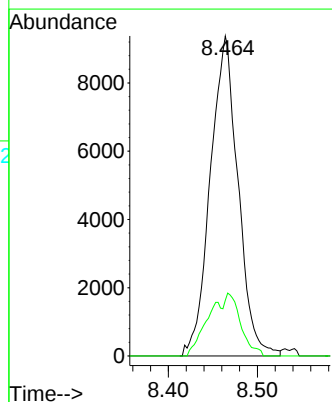
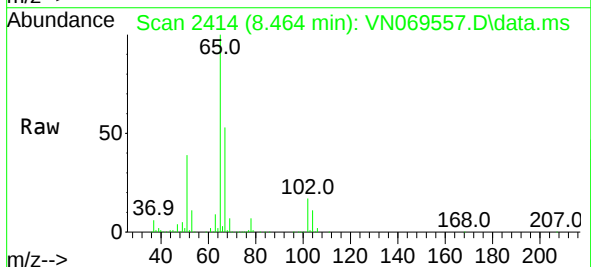


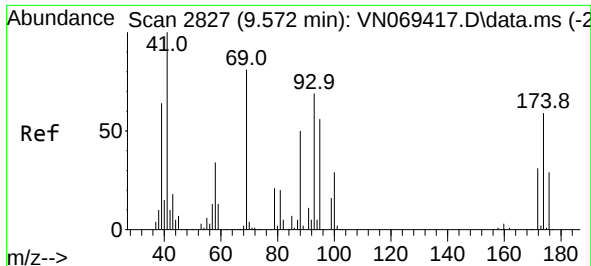
Tgt Ion:117 Resp: 135152
Ion Ratio Lower Upper
117 100
119 4.7 76.1 114.1#
121 0.0 24.2 36.2#



#40
Benzene
Concen: 0.340 ug/l
RT: 8.464 min Scan# 2414
Delta R.T. 0.005 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

Tgt Ion: 78 Resp: 20346
Ion Ratio Lower Upper
78 100
77 17.4 18.6 27.8#





#49

1,4-Dioxane

Concen: 39.198 ug/l

RT: 9.580 min Scan# 21

Delta R.T. 0.008 min

Lab File: VN069557.D

Acq: 18 Nov 2021 17:00

Instrument :

MSVOA_N

ClientSampleId :

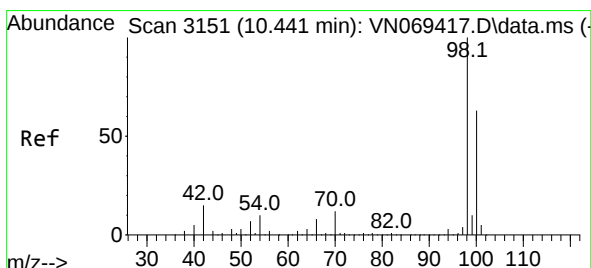
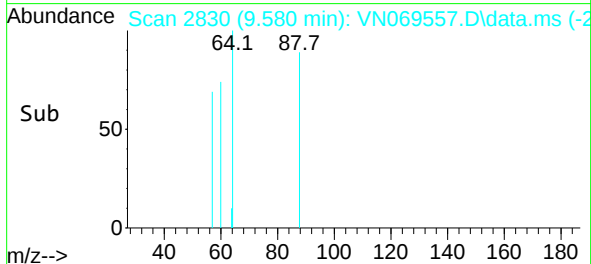
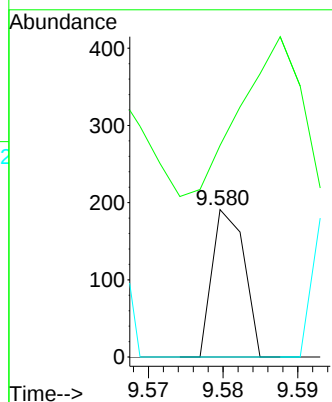
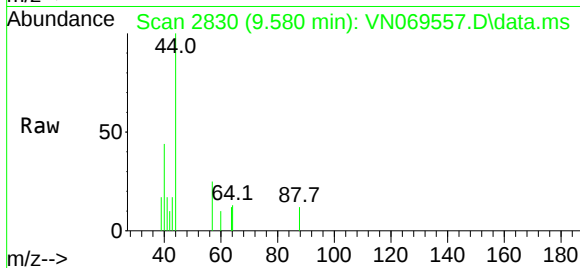
Tgt Ion: 88 Resp: 57

Ion Ratio Lower Upper

88 100

43 664.9 23.4 35.2#

58 0.0 50.6 75.8#



#50

Toluene-d8

Concen: 53.949 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.002 min

Lab File: VN069557.D

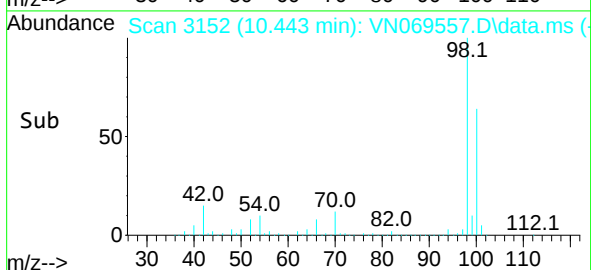
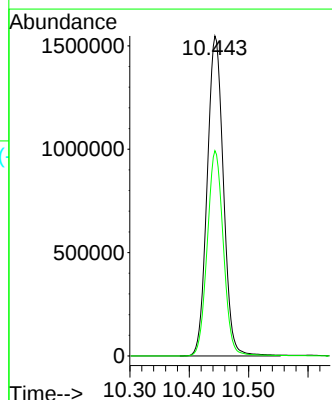
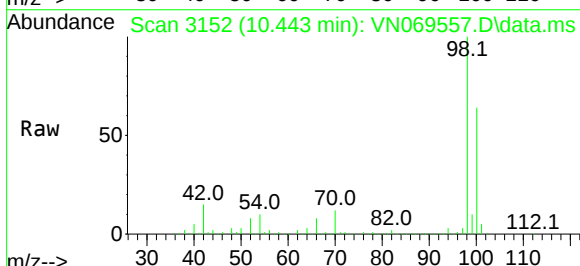
Acq: 18 Nov 2021 17:00

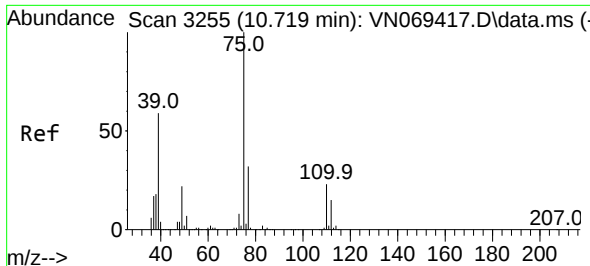
Tgt Ion: 98 Resp: 2932306

Ion Ratio Lower Upper

98 100

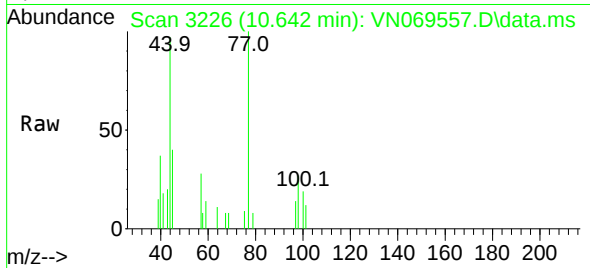
100 63.7 50.4 75.6



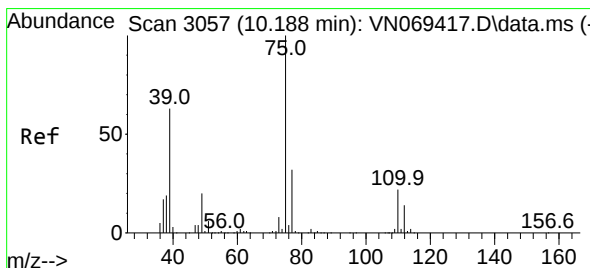
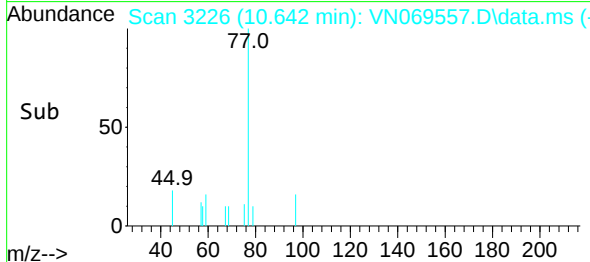
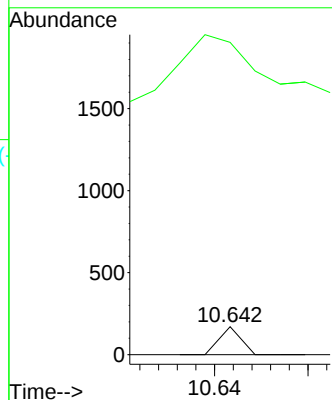


#53
t-1,3-Dichloropropene
Concen: 2.638 ug/l
RT: 10.642 min Scan# 3150
Delta R.T. -0.077 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

Instrument :
MSVOA_N
ClientSampleId :

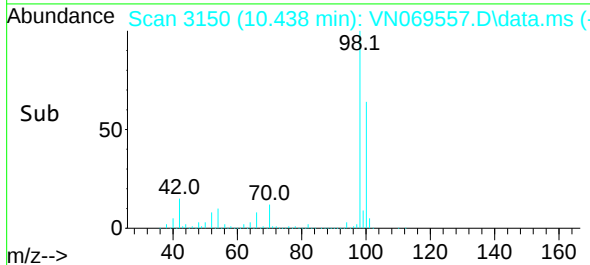
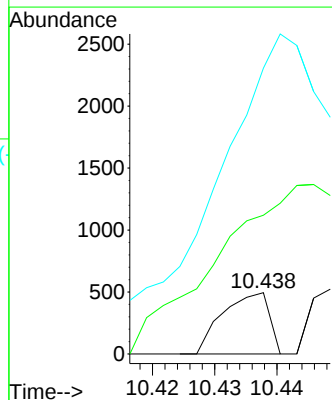
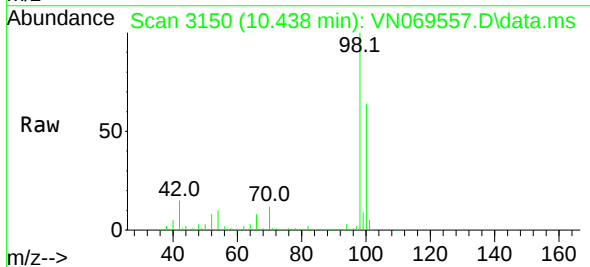


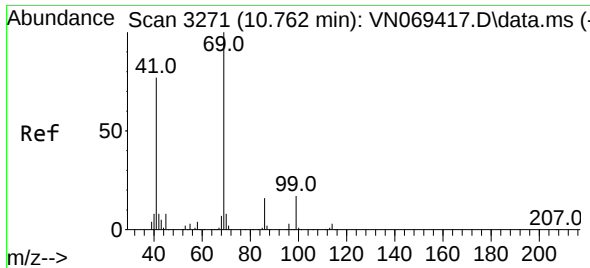
Tgt Ion: 75 Resp: 27
Ion Ratio Lower Upper
75 100
77 149.4 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 1.742 ug/l
RT: 10.438 min Scan# 3150
Delta R.T. 0.250 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

Tgt Ion: 75 Resp: 257
Ion Ratio Lower Upper
75 100
77 133.9 26.4 39.6#
39 323.0 42.5 63.7#

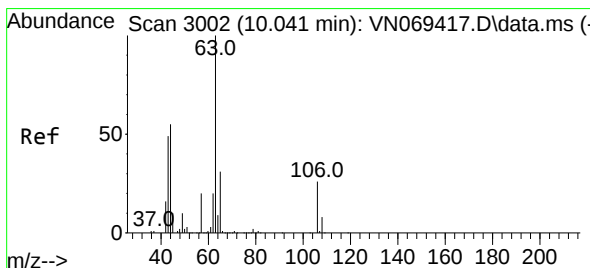
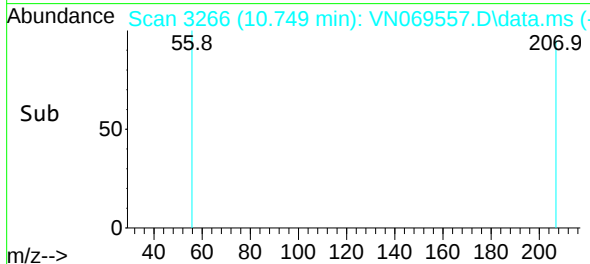
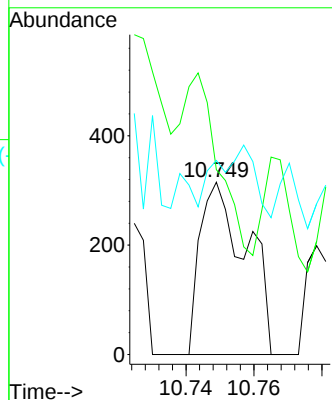
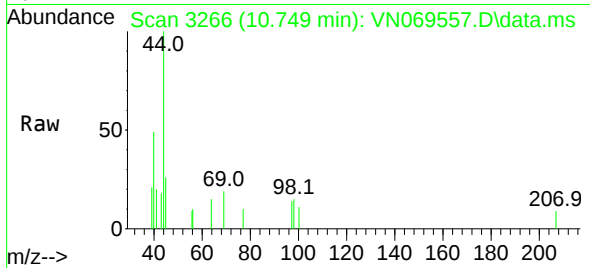




#56
Ethyl methacrylate
Concen: 2.063 ug/l
RT: 10.749 min Scan# 31
Delta R.T. -0.013 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

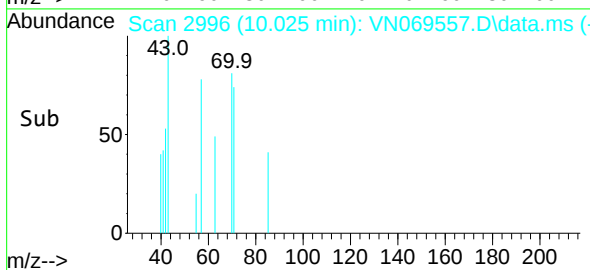
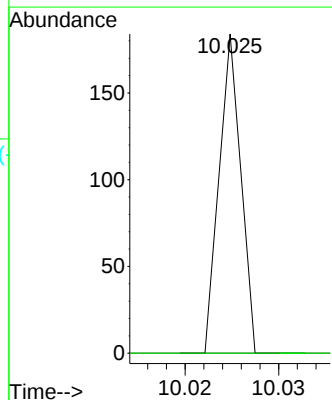
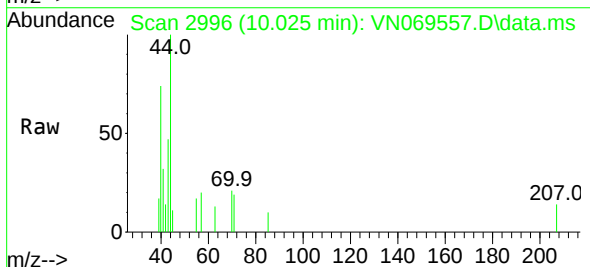
Instrument :
MSVOA_N
ClientSampleId :

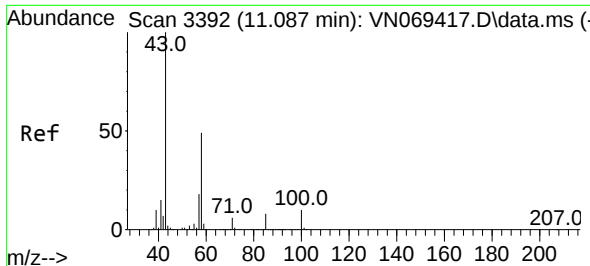
Tgt Ion: 69 Resp: 298
Ion Ratio Lower Upper
69 100
41 36.2 51.4 77.0#
39 0.0 34.6 52.0#



#58
2-Chloroethyl Vinyl ether
Concen: 22.774 ug/l
RT: 10.025 min Scan# 2996
Delta R.T. -0.016 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

Tgt Ion: 63 Resp: 30
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#

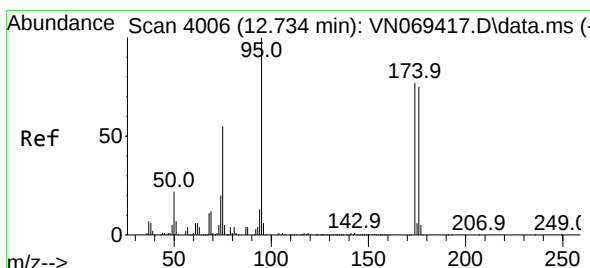
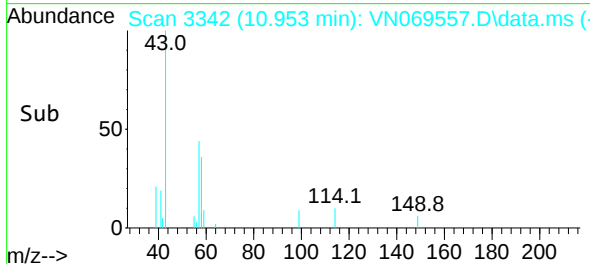
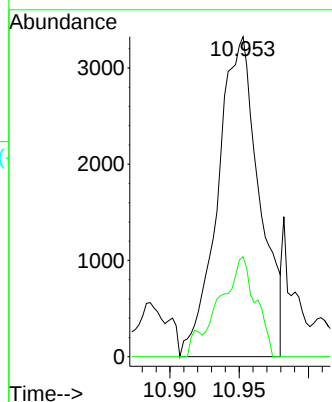
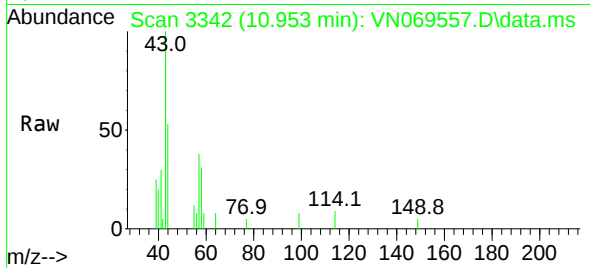




#59
2-Hexanone
Concen: 8.235 ug/l
RT: 10.953 min Scan# 31
Delta R.T. -0.134 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

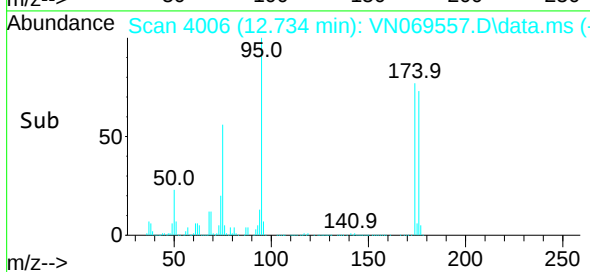
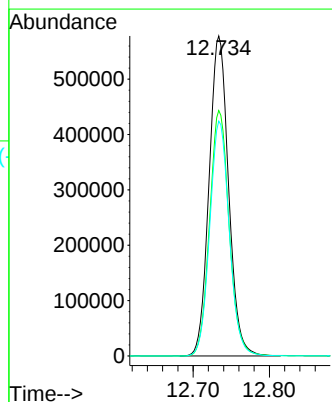
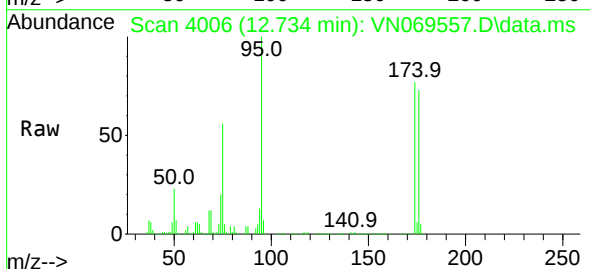
Instrument :
MSVOA_N
ClientSampleId :

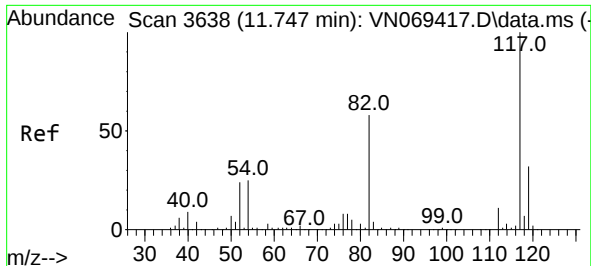
Tgt Ion: 43 Resp: 6953
Ion Ratio Lower Upper
43 100
58 27.6 26.9 80.7



#62
4-Bromofluorobenzene
Concen: 51.289 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

Tgt Ion: 95 Resp: 1024122
Ion Ratio Lower Upper
95 100
174 77.1 0.0 187.2
176 73.6 0.0 181.4

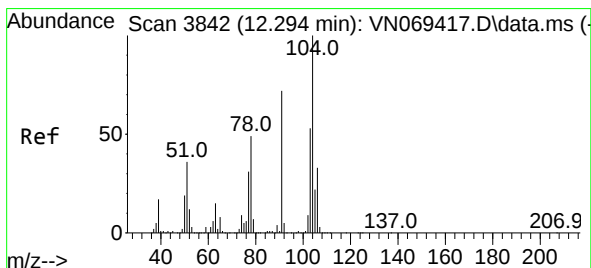
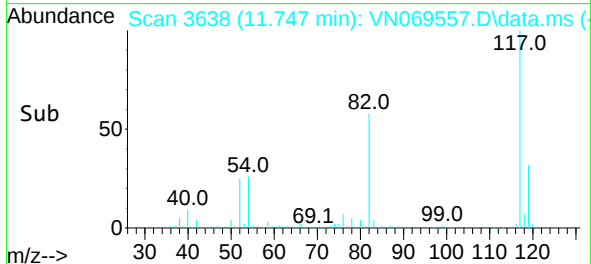
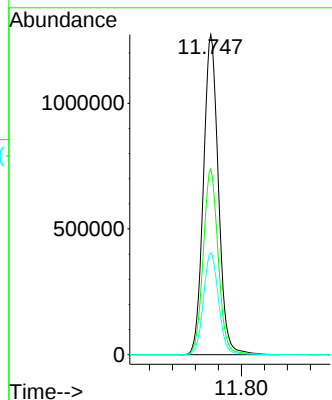
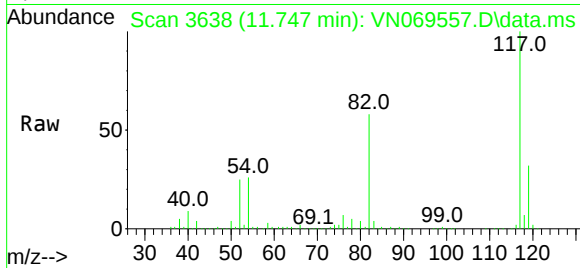




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 30
Delta R.T. -0.000 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

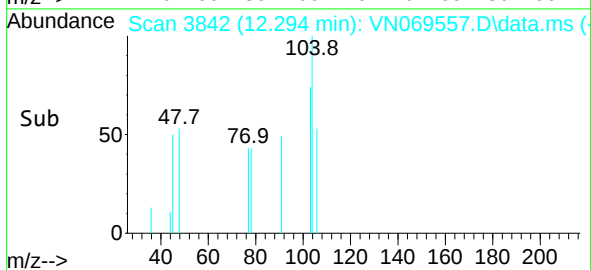
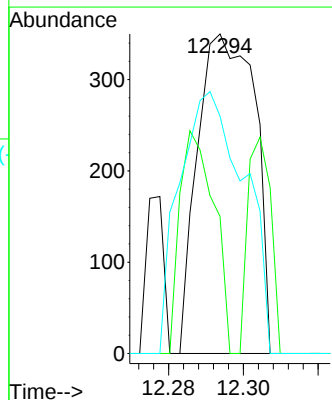
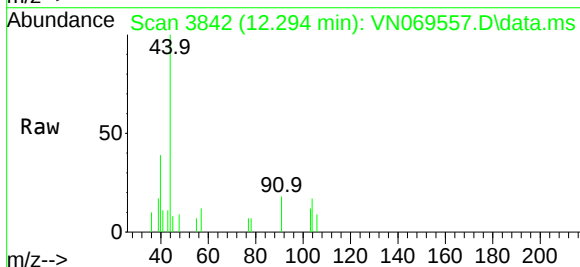
Instrument :
MSVOA_N
ClientSampleId :

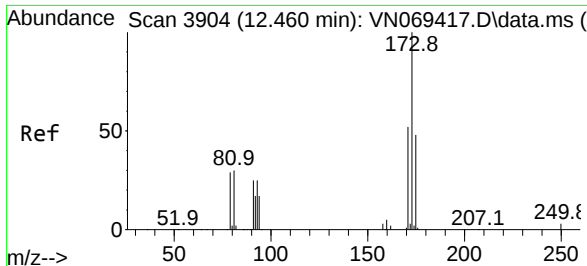
Tgt Ion:117 Resp: 2298777
Ion Ratio Lower Upper
117 100
82 57.9 42.4 63.6
119 31.8 25.4 38.2



#70
Styrene
Concen: 1.527 ug/l
RT: 12.294 min Scan# 3842
Delta R.T. -0.000 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

Tgt Ion:104 Resp: 371
Ion Ratio Lower Upper
104 100
78 41.8 38.7 58.1
103 93.3 45.0 67.6#

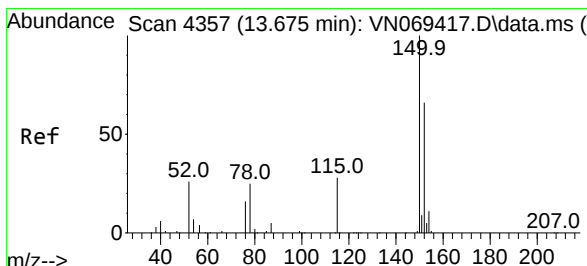
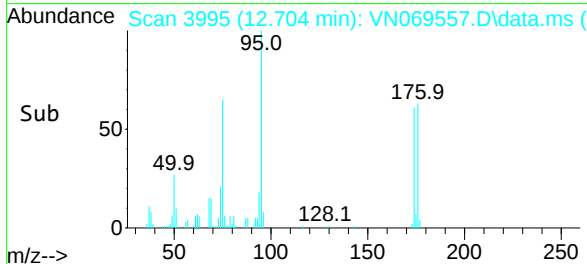
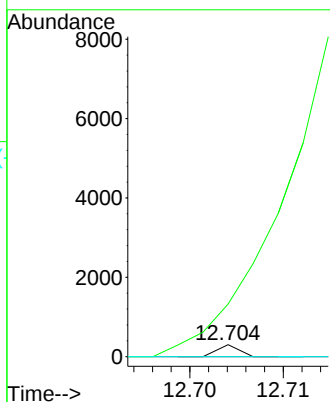
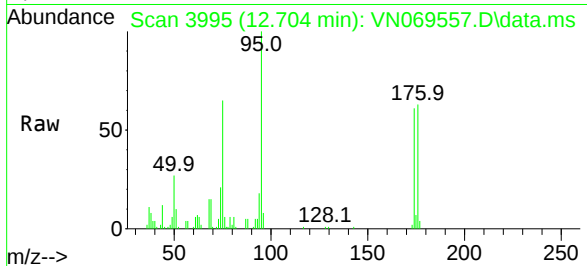




#71
Bromoform
Concen: 3.431 ug/l
RT: 12.704 min Scan# 3904
Delta R.T. 0.244 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

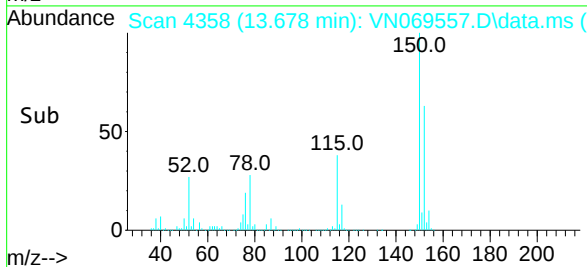
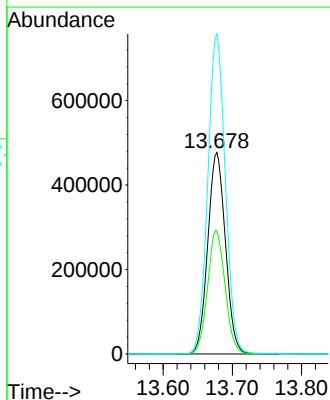
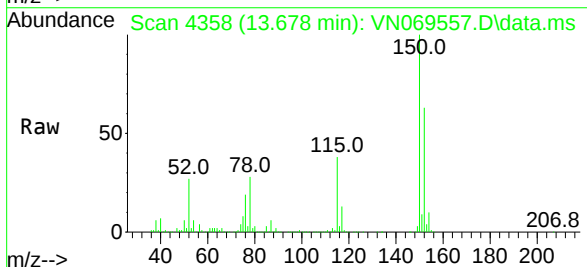
Instrument :
MSVOA_N
ClientSampleId :

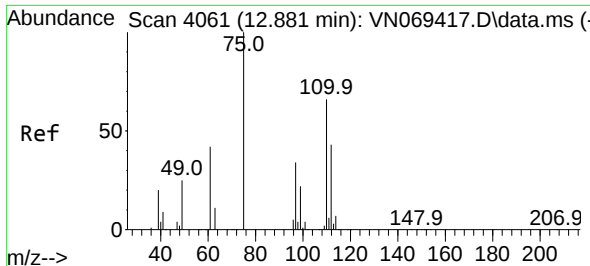
Tgt Ion:173 Resp: 49
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

Tgt Ion:152 Resp: 846693
Ion Ratio Lower Upper
152 100
115 60.8 27.5 82.5
150 157.4 0.0 344.4

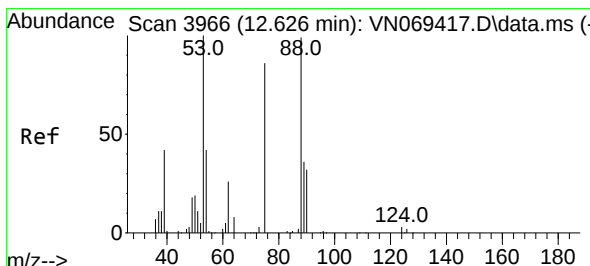
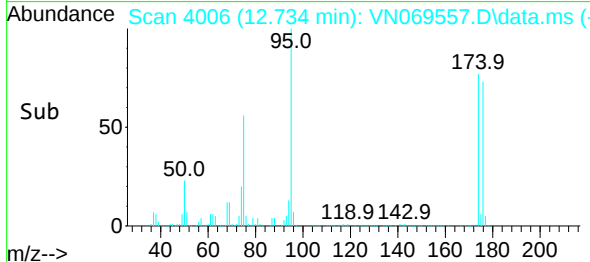
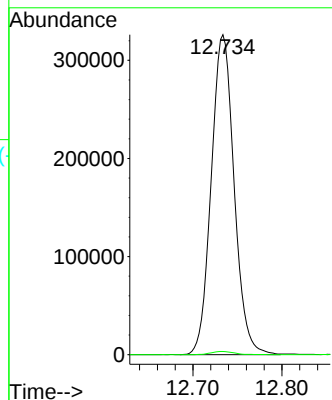
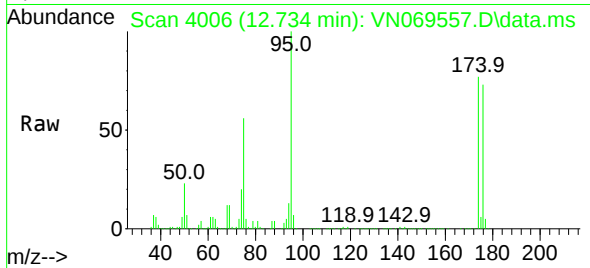




#76
1,2,3-Trichloropropane
Concen: 29.799 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

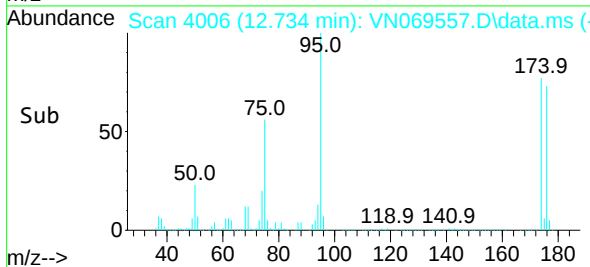
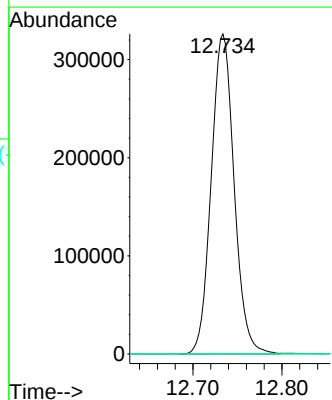
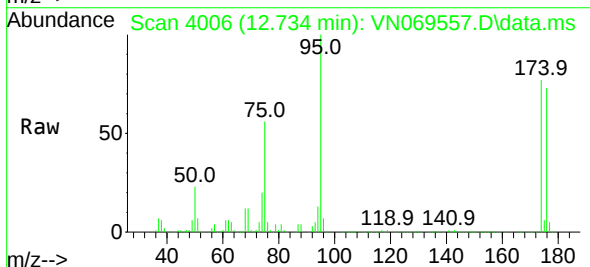
Instrument :
MSVOA_N
ClientSampleId :

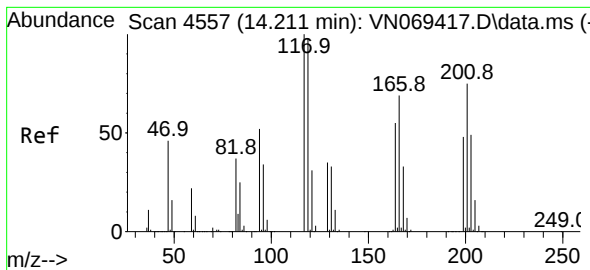
Tgt Ion: 75 Resp: 582264
Ion Ratio Lower Upper
75 100
77 1.0 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 84.222 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.108 min
Lab File: VN069557.D
Acq: 18 Nov 2021 17:00

Tgt Ion: 75 Resp: 582264
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#





#90

Hexachloroethane

Concen: 2.183 ug/l

RT: 14.284 min Scan# 41

Delta R.T. 0.073 min

Lab File: VN069557.D

Acq: 18 Nov 2021 17:00

Instrument :

MSVOA_N

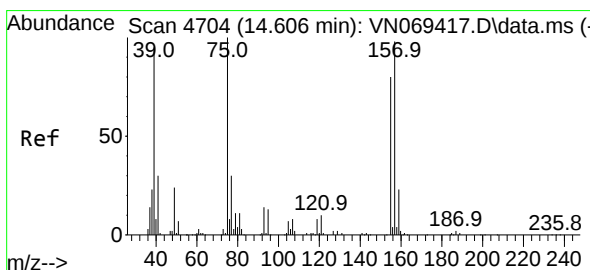
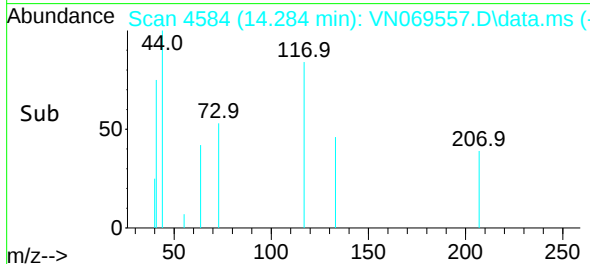
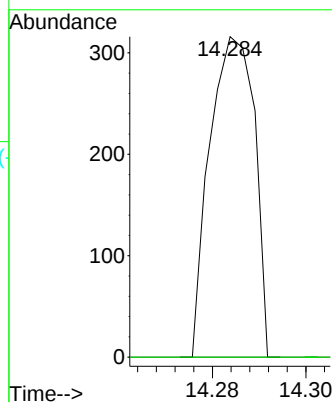
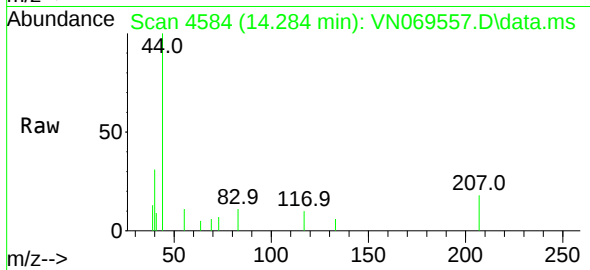
ClientSampleId :

Tgt Ion:117 Resp: 210

Ion Ratio Lower Upper

117 100

201 0.0 43.9 131.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.803 ug/l

RT: 14.630 min Scan# 4713

Delta R.T. 0.024 min

Lab File: VN069557.D

Acq: 18 Nov 2021 17:00

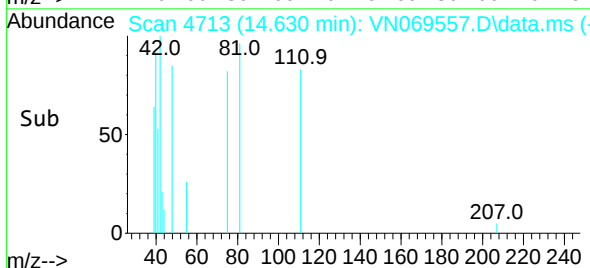
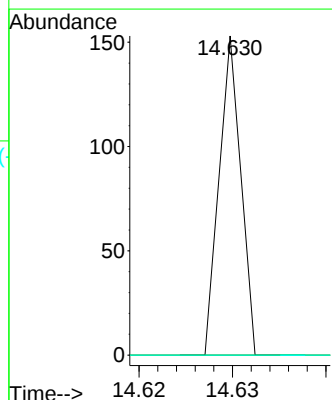
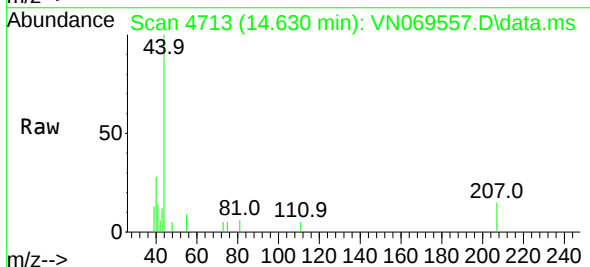
Tgt Ion: 75 Resp: 25

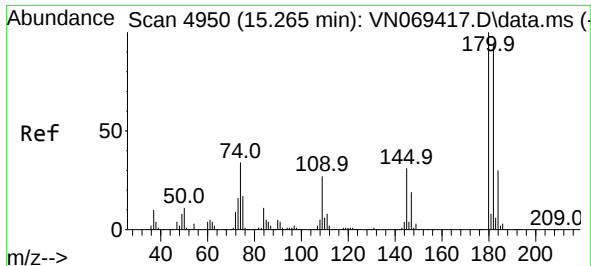
Ion Ratio Lower Upper

75 100

155 0.0 46.9 140.7#

157 0.0 60.6 181.7#





#93

1,2,4-Trichlorobenzene

Concen: 3.117 ug/l

RT: 15.255 min Scan# 49

Delta R.T. -0.010 min

Lab File: VN069557.D

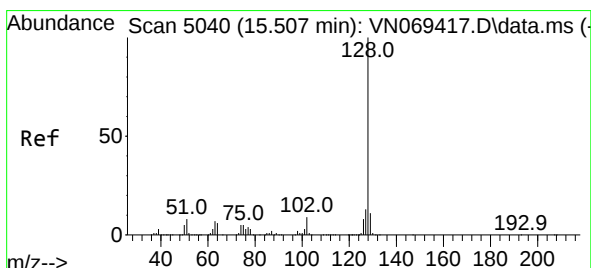
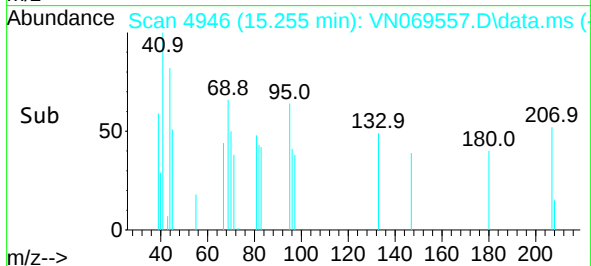
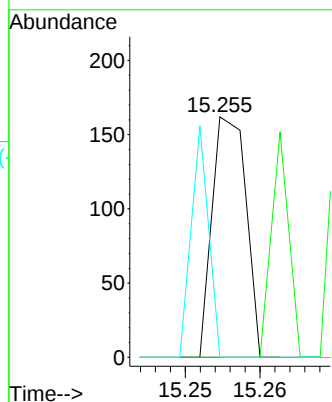
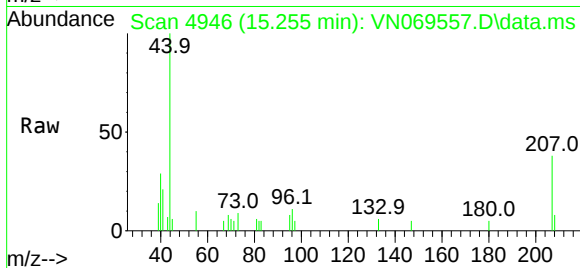
Acq: 18 Nov 2021 17:00

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:180	Resp:	51
Ion Ratio	Lower	Upper
180	100	
182	47.1	48.3 144.9#
145	49.0	14.5 43.5#



#95

Naphthalene

Concen: 4.477 ug/l

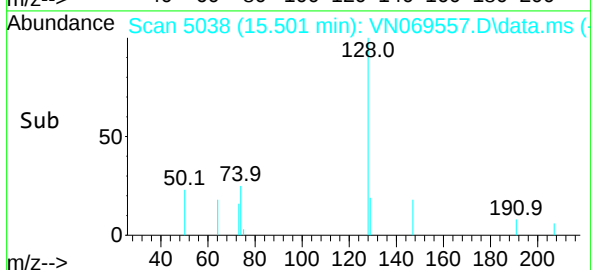
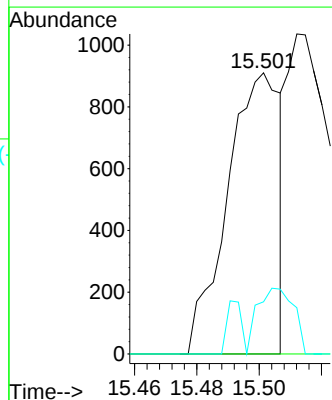
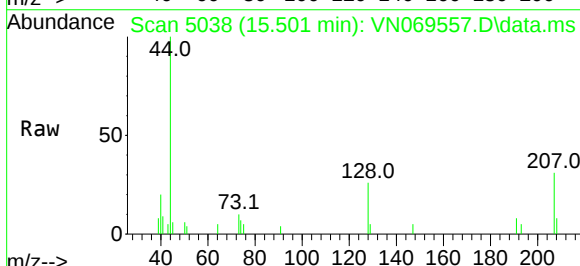
RT: 15.501 min Scan# 5038

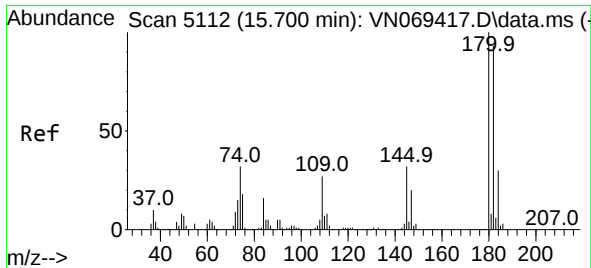
Delta R.T. -0.006 min

Lab File: VN069557.D

Acq: 18 Nov 2021 17:00

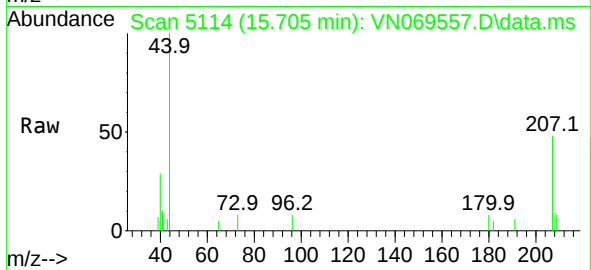
Tgt Ion:128	Resp:	1066
Ion Ratio	Lower	Upper
128	100	
127	0.0	10.5 15.7#
129	16.1	8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 3.189 ug/l
 RT: 15.705 min Scan# 51
 Delta R.T. 0.005 min
 Lab File: VN069557.D
 Acq: 18 Nov 2021 17:00

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:180 Resp: 268
 Ion Ratio Lower Upper
 180 100
 182 56.7 47.4 142.2
 145 19.8 15.0 45.1

