

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061423\
 Data File : VN078202.D
 Acq On : 14 Jun 2023 13:44
 Operator : JC\MD
 Sample : 03225-04DL 4X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GWOW-BR-05-103-123-061323DL

Quant Time: Jun 15 02:43:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

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

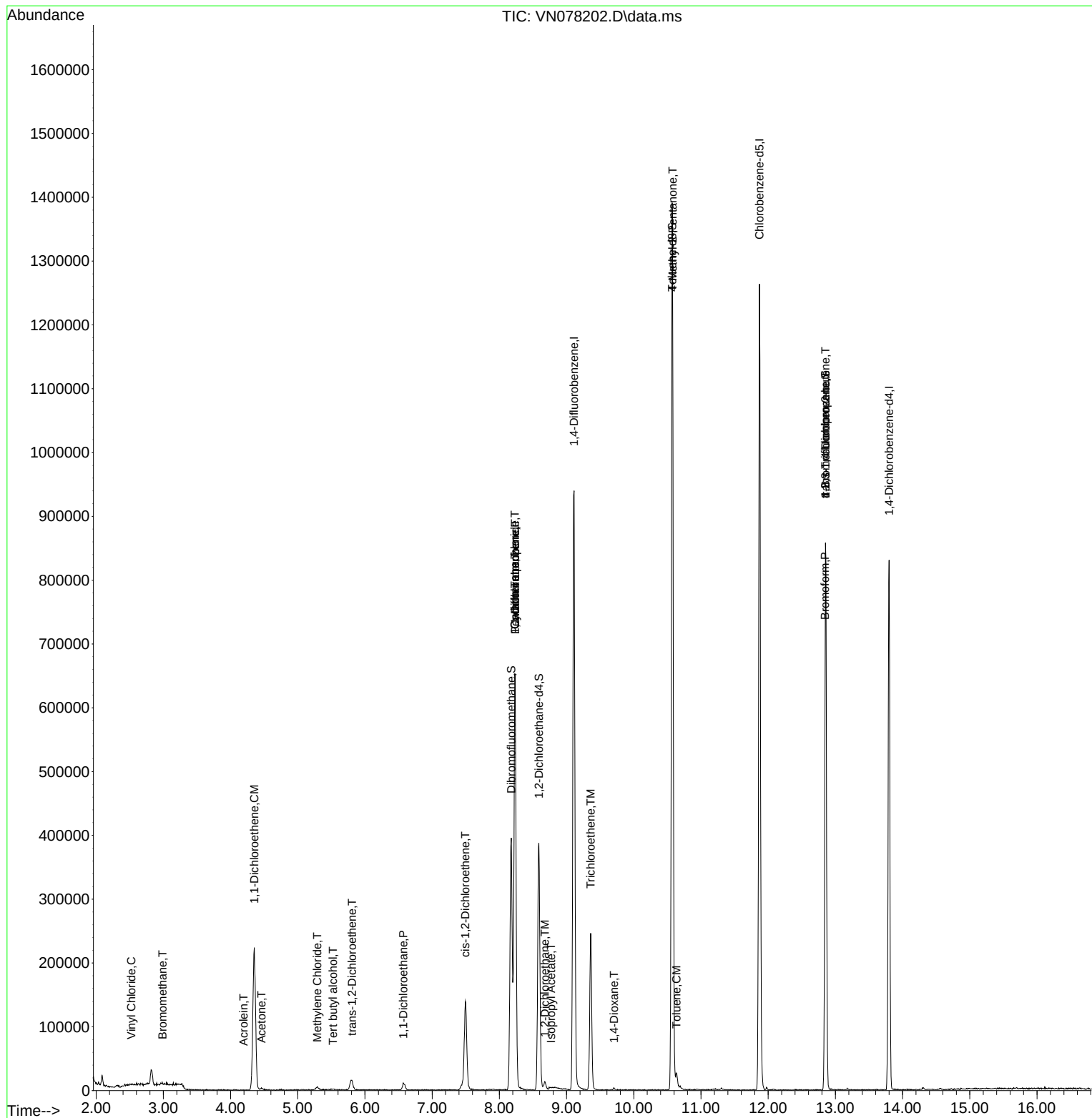
Internal Standards						
1) Pentafluorobenzene	8.235	168	467852	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	853777	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	750274	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	227487	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	328632	52.683	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.360%			
35) Dibromofluoromethane	8.177	113	285131	52.818	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.640%			
50) Toluene-d8	10.570	98	999841	48.044	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.080%			
62) 4-Bromofluorobenzene	12.853	95	306055	47.306	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 94.620%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1183	Below Cal	#	81
4) Vinyl Chloride	2.524	62	1453	0.210	ug/l	94
5) Bromomethane	2.989	94	1568	0.300	ug/l #	78
11) Tert butyl alcohol	5.524	59	698	0.810	ug/l #	72
12) 1,1-Dichloroethene	4.353	96	135177	26.459	ug/l	92
13) Acrolein	4.194	56	288	0.303	ug/l #	16
16) Acetone	4.459	43	2312	1.288	ug/l #	73
20) Methylene Chloride	5.288	84	3246	0.547	ug/l #	85
21) trans-1,2-Dichloroethene	5.806	96	10405	1.888	ug/l	96
24) 1,1-Dichloroethane	6.571	63	15174	1.568	ug/l #	92
27) cis-1,2-Dichloroethene	7.494	96	82664	12.577	ug/l	99
31) Cyclohexane	8.229	56	10941	1.367	ug/l #	17
36) 1,1-Dichloropropene	8.235	75	42322	5.466	ug/l #	49
38) Carbon Tetrachloride	8.229	117	51223	6.265	ug/l #	15
42) 1,2-Dichloroethane	8.676	62	9555	1.206	ug/l	84
43) Isopropyl Acetate	8.771	43	3064	0.265	ug/l #	49
44) Trichloroethene	9.359	130	87026	14.255	ug/l	100
49) 1,4-Dioxane	9.706	88	1942	19.032	ug/l #	84
51) 4-Methyl-2-Pentanone	10.576	43	4854	0.797	ug/l #	1
52) Toluene	10.635	92	7828	0.536	ug/l	96
71) Bromoform	12.847	173	3307	0.867	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.941	83	76	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	166076	30.881	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	166076	94.877	ug/l #	15

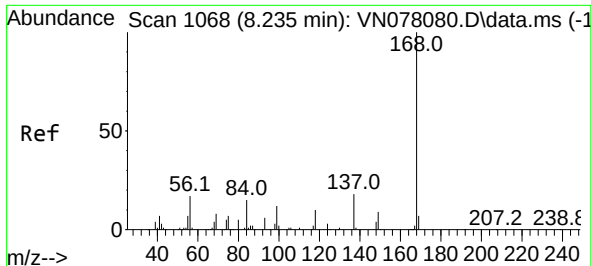
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

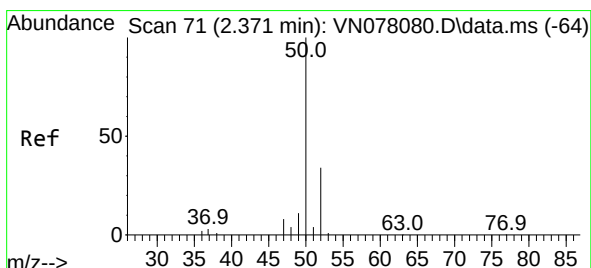
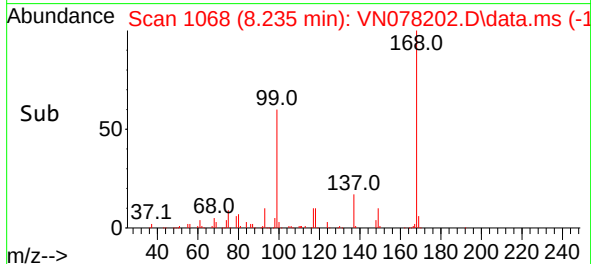
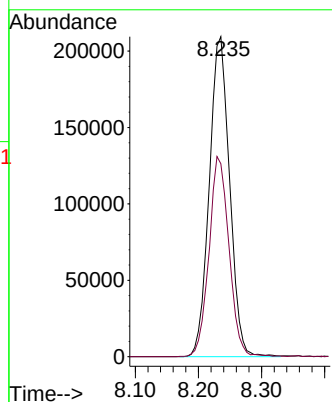
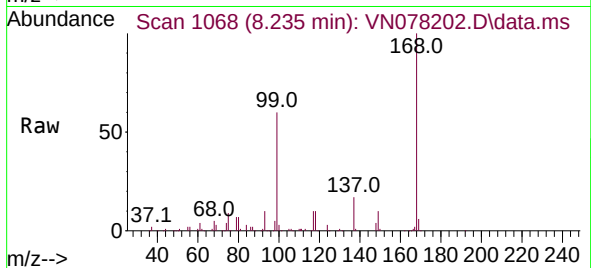




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

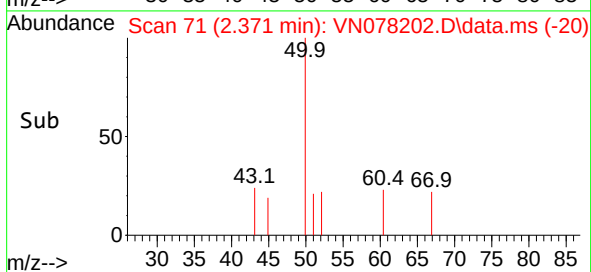
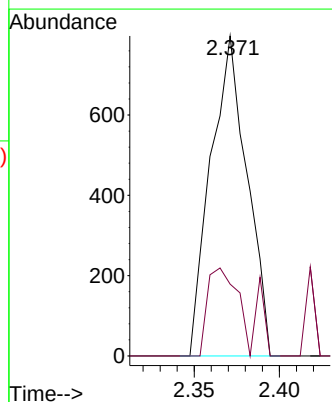
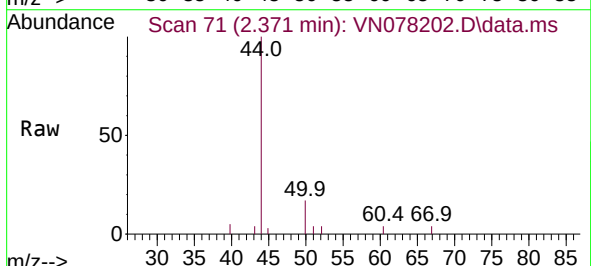
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-103-123-061323DL

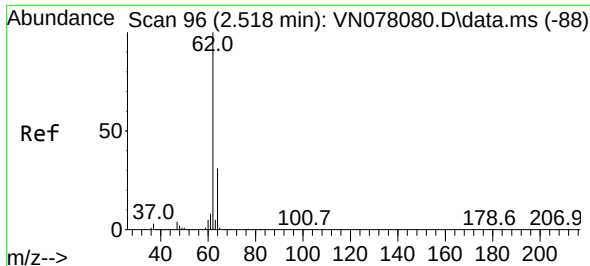
Tgt Ion:168 Resp: 467852
Ion Ratio Lower Upper
168 100
99 60.2 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

Tgt Ion: 50 Resp: 1183
Ion Ratio Lower Upper
50 100
52 22.5 26.5 39.7#

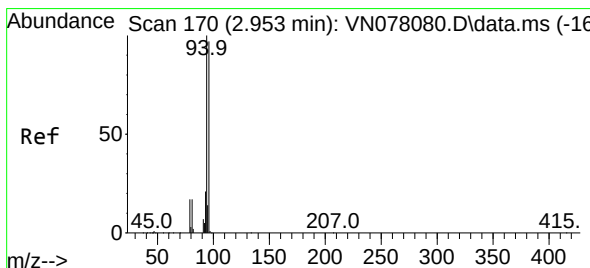
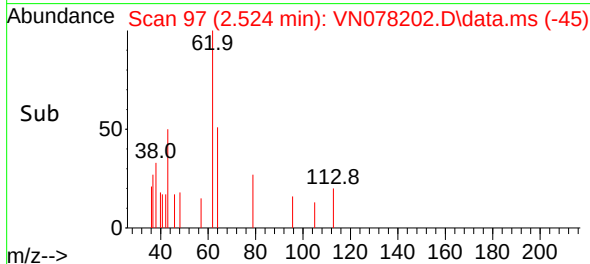
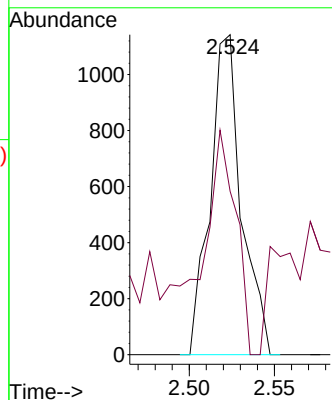
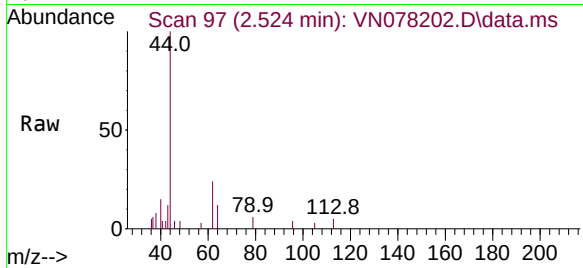




#4
 Vinyl Chloride
 Concen: 0.210 ug/l
 RT: 2.524 min Scan# 91
 Delta R.T. 0.006 min
 Lab File: VN078202.D
 Acq: 14 Jun 2023 13:44

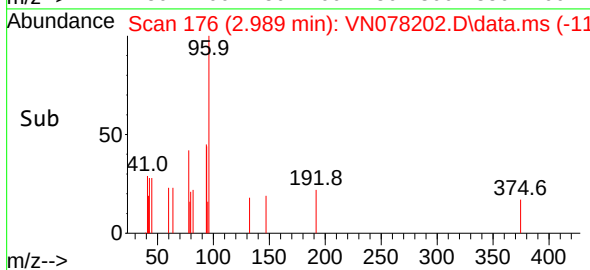
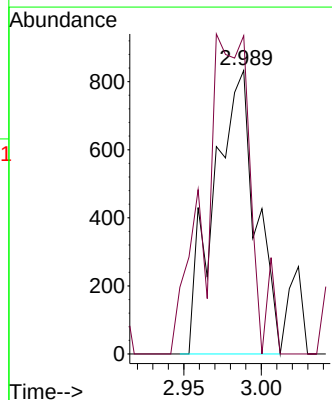
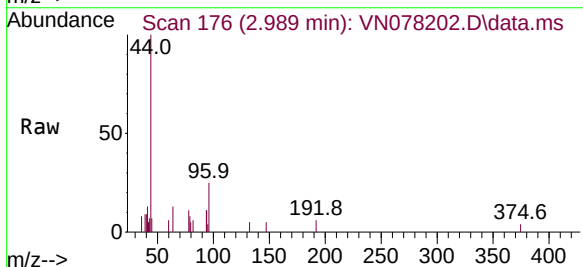
Instrument :
 MSVOA_N
 ClientSampleId :
 GWOW-BR-05-103-123-061323DL

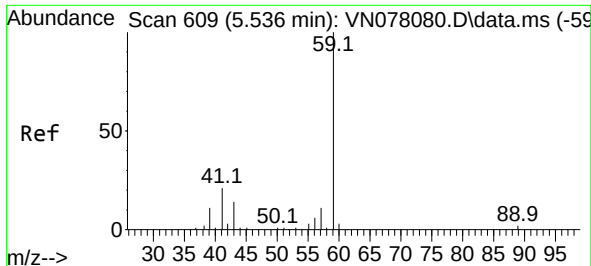
Tgt Ion: 62 Resp: 1453
 Ion Ratio Lower Upper
 62 100
 64 29.6 26.2 39.2



#5
 Bromomethane
 Concen: 0.300 ug/l
 RT: 2.989 min Scan# 176
 Delta R.T. 0.035 min
 Lab File: VN078202.D
 Acq: 14 Jun 2023 13:44

Tgt Ion: 94 Resp: 1568
 Ion Ratio Lower Upper
 94 100
 96 112.2 73.1 109.7#

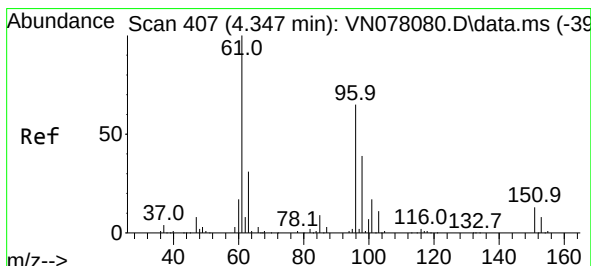
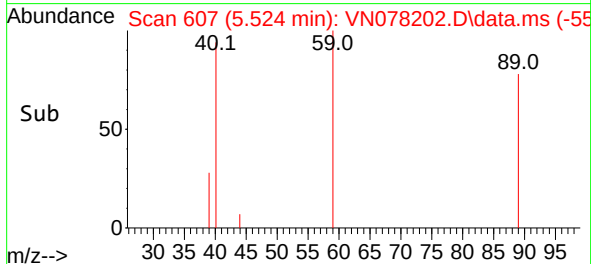
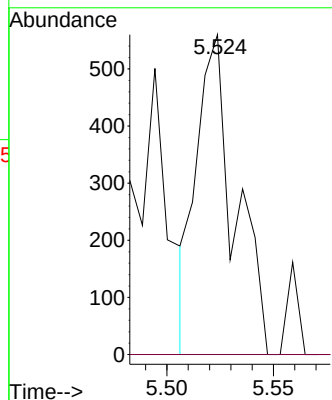
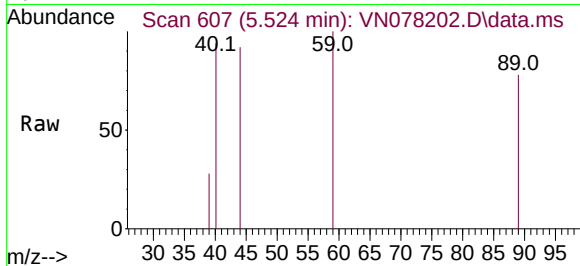




#11
Tert butyl alcohol
Concen: 0.810 ug/l
RT: 5.524 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

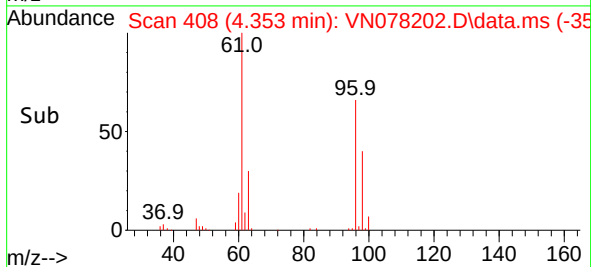
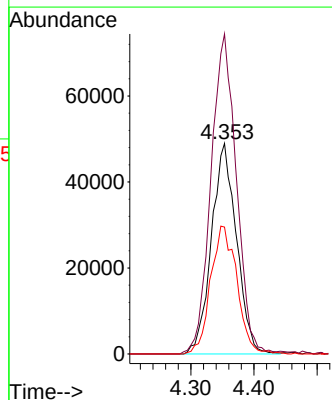
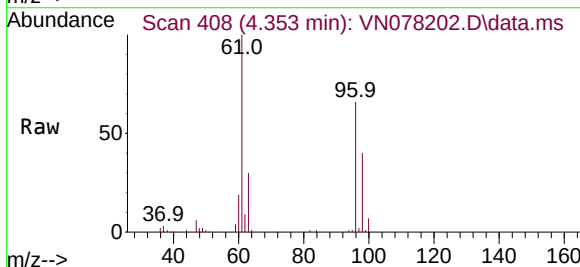
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-103-123-061323DL

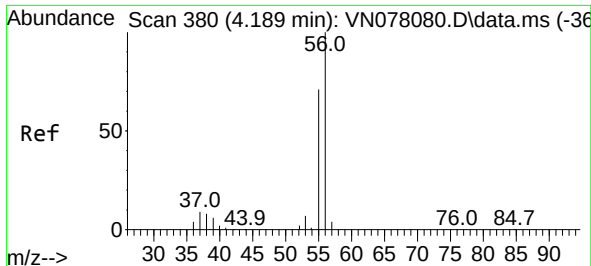
Tgt Ion: 59 Resp: 698
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 26.459 ug/l
RT: 4.353 min Scan# 408
Delta R.T. 0.006 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

Tgt Ion: 96 Resp: 135177
Ion Ratio Lower Upper
96 100
61 152.0 112.7 169.1
98 60.2 51.2 76.8

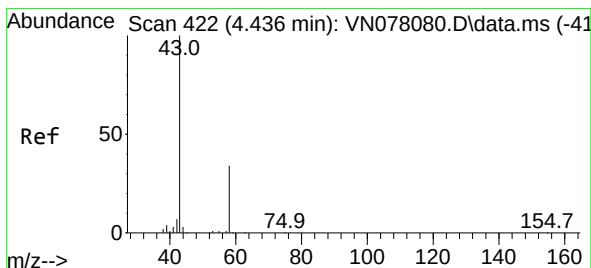
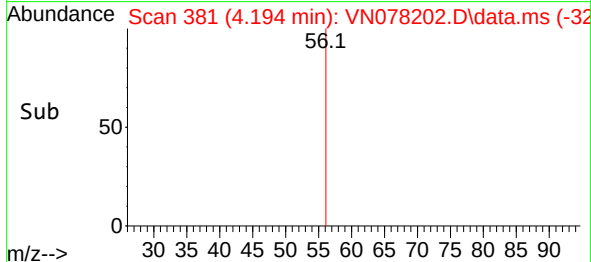
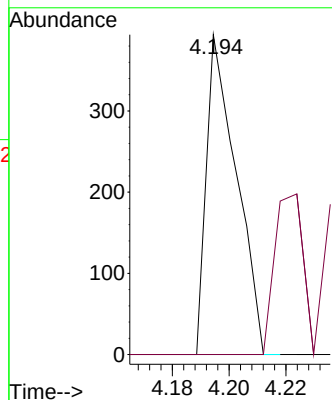
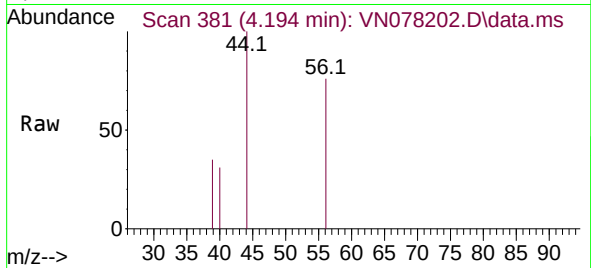




#13
Acrolein
Concen: 0.303 ug/l
RT: 4.194 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

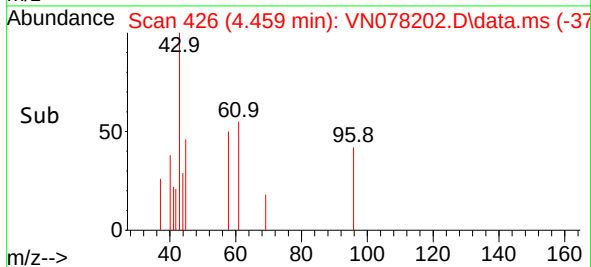
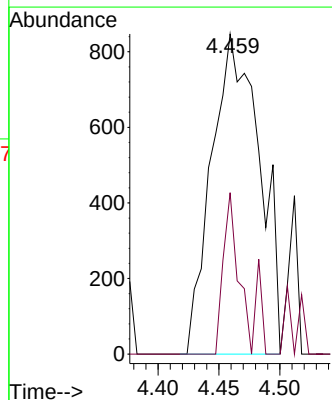
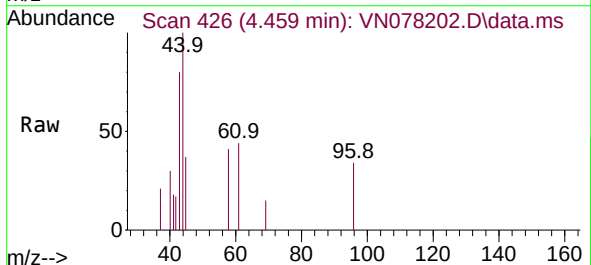
Instrument :
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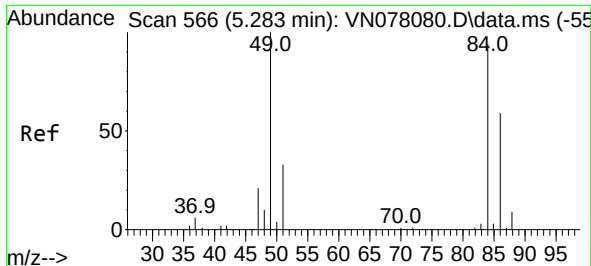
Tgt Ion: 56 Resp: 288
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 1.288 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.023 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

Tgt Ion: 43 Resp: 2312
Ion Ratio Lower Upper
43 100
58 50.4 28.0 42.0#

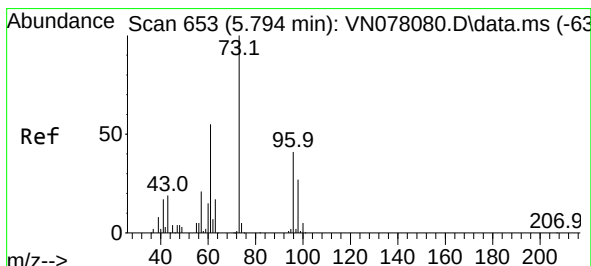
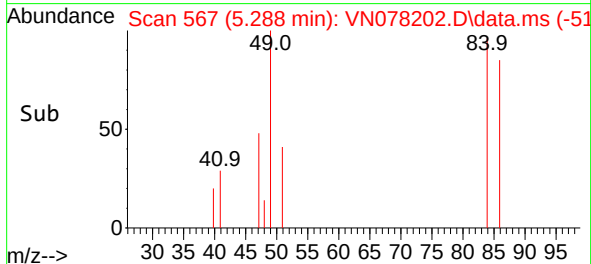
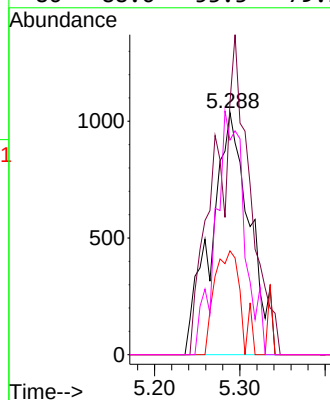
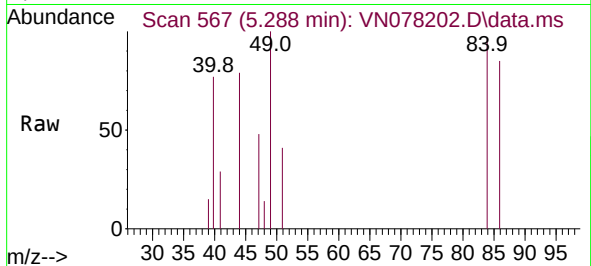




#20
Methylene Chloride
Concen: 0.547 ug/l
RT: 5.288 min Scan# 511
Delta R.T. 0.006 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

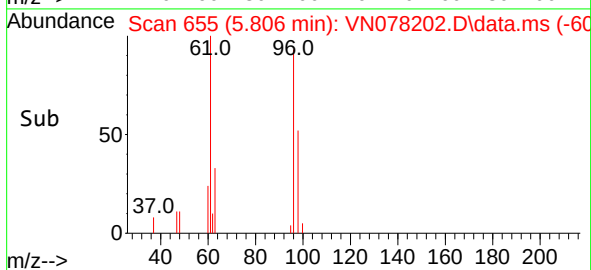
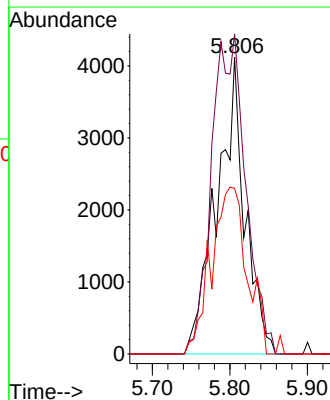
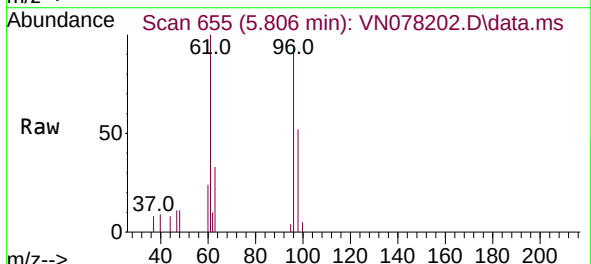
Instrument :
MSVOA_N
ClientSampleId :
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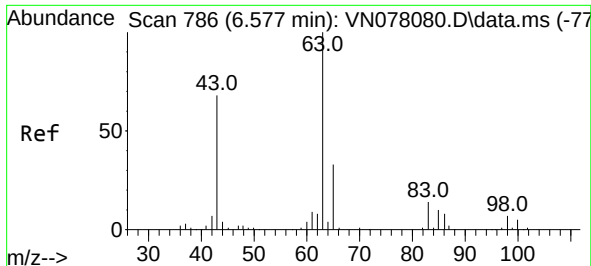
Tgt Ion:	84	Resp:	3246
Ion	Ratio	Lower	Upper
84	100		
49	104.1	79.7	119.5
51	42.9	25.2	37.8#
86	88.6	53.3	79.9#



#21
trans-1,2-Dichloroethene
Concen: 1.888 ug/l
RT: 5.806 min Scan# 655
Delta R.T. 0.012 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

Tgt Ion:	96	Resp:	10405
Ion	Ratio	Lower	Upper
96	100		
61	107.7	90.1	135.1
98	55.7	46.4	69.6

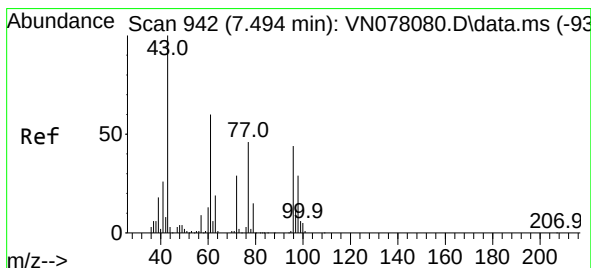
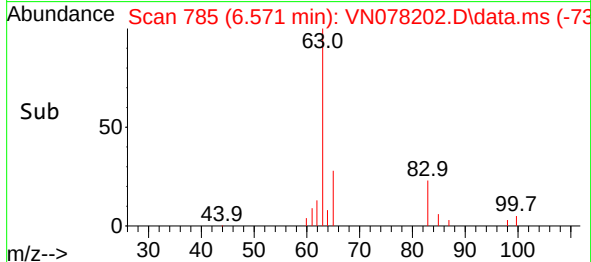
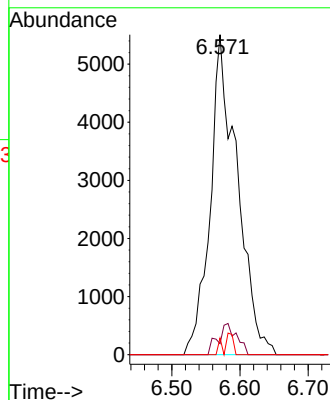
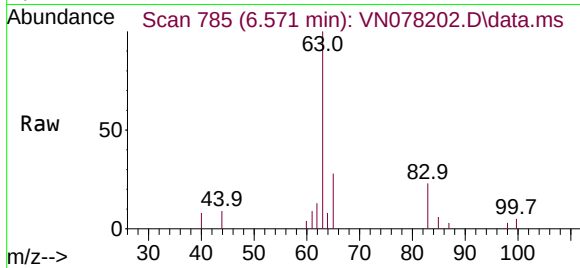




#24
1,1-Dichloroethane
Concen: 1.568 ug/l
RT: 6.571 min Scan# 71
Delta R.T. -0.006 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

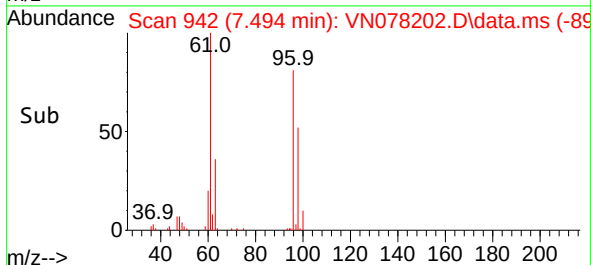
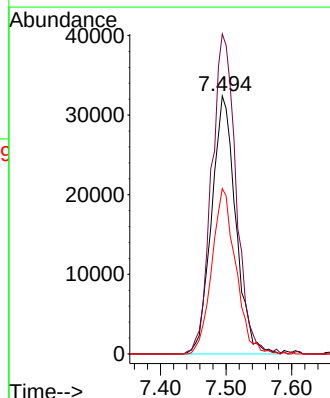
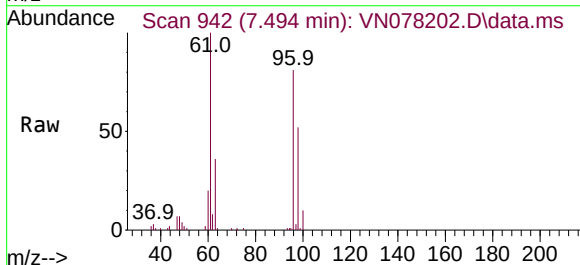
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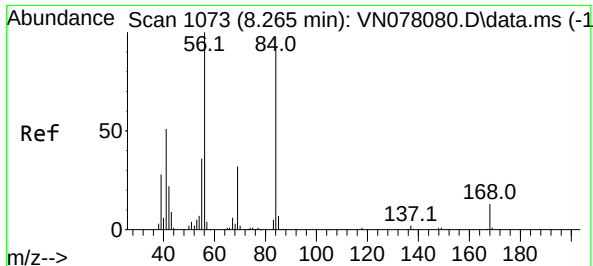
Tgt Ion: 63 Resp: 15174
Ion Ratio Lower Upper
63 100
98 3.5 3.9 11.7#
100 5.2 2.5 7.4



#27
cis-1,2-Dichloroethene
Concen: 12.577 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

Tgt Ion: 96 Resp: 82664
Ion Ratio Lower Upper
96 100
61 125.6 0.0 255.2
98 63.6 0.0 128.8

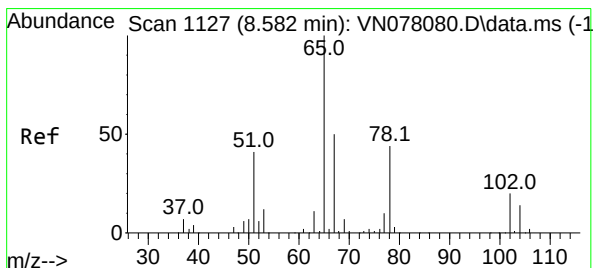
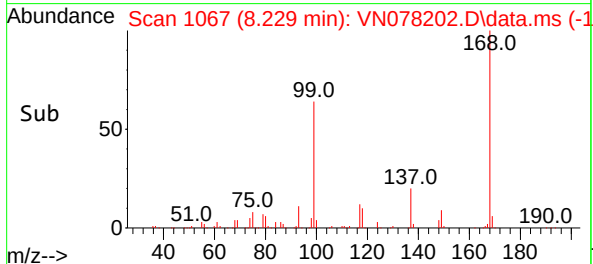
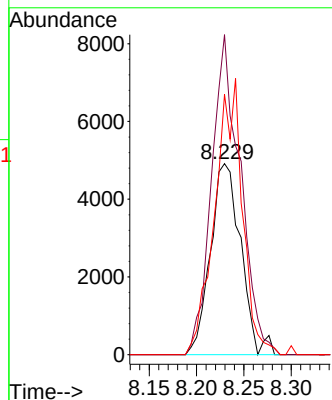
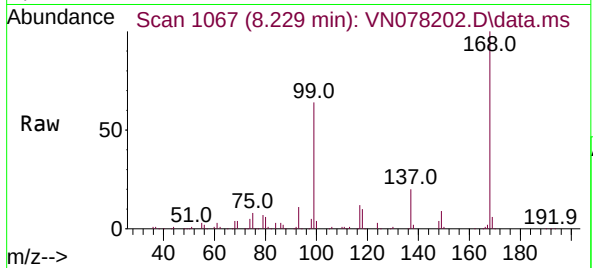




#31
Cyclohexane
Concen: 1.367 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

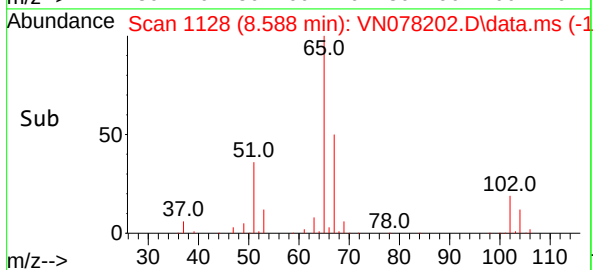
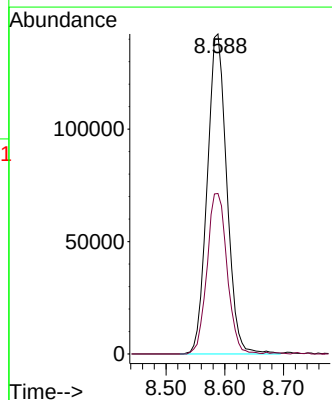
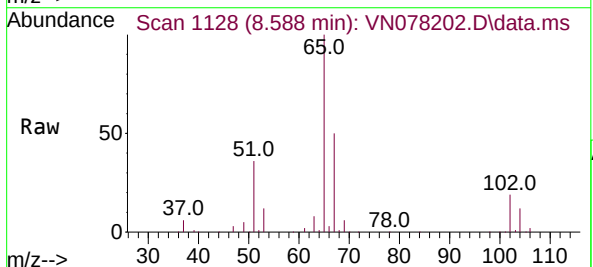
Instrument : MSVOA_N
ClientSampleId : GWOW-BR-05-103-123-061323DL

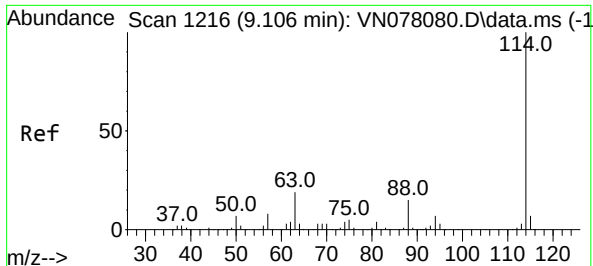
Tgt Ion: 56 Resp: 10941
Ion Ratio Lower Upper
56 100
69 167.5 26.8 40.2#
84 136.2 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 52.683 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

Tgt Ion: 65 Resp: 328632
Ion Ratio Lower Upper
65 100
67 51.4 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078202.D

Acq: 14 Jun 2023 13:44

Instrument :

MSVOA_N

ClientSampleId :

GWOW-BR-05-103-123-061323DL

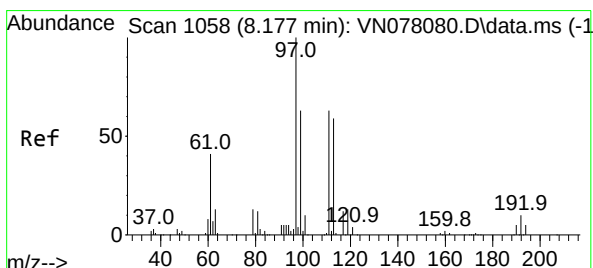
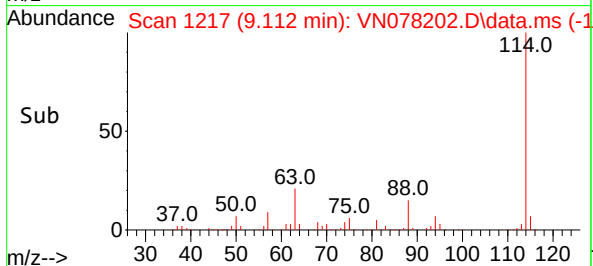
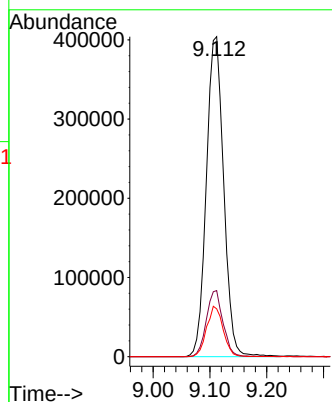
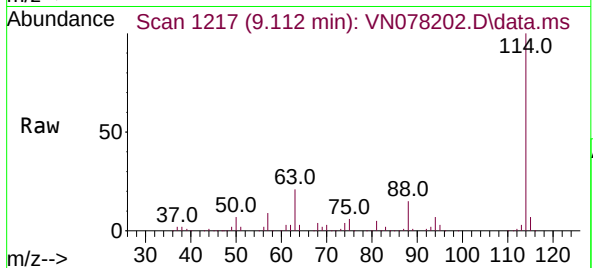
Tgt Ion:114 Resp: 853777

Ion Ratio Lower Upper

114 100

63 20.6 0.0 36.4

88 15.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 52.818 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN078202.D

Acq: 14 Jun 2023 13:44

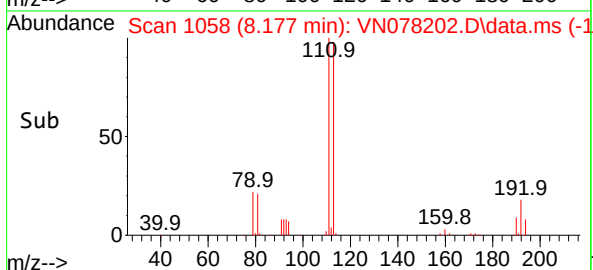
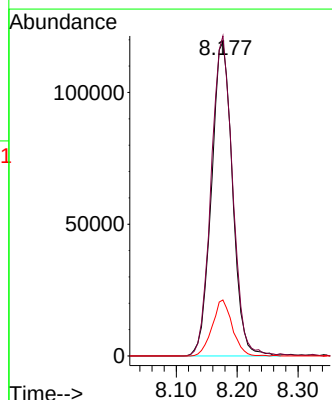
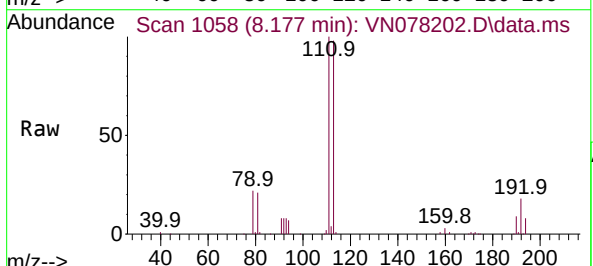
Tgt Ion:113 Resp: 285131

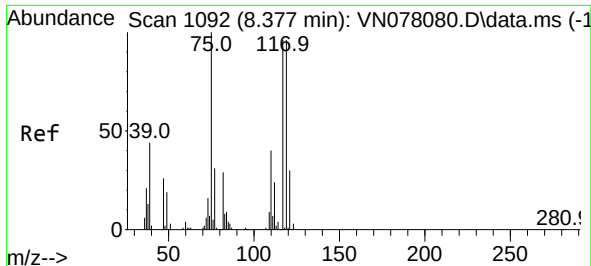
Ion Ratio Lower Upper

113 100

111 103.7 82.6 123.8

192 17.1 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.466 ug/l

RT: 8.235 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN078202.D

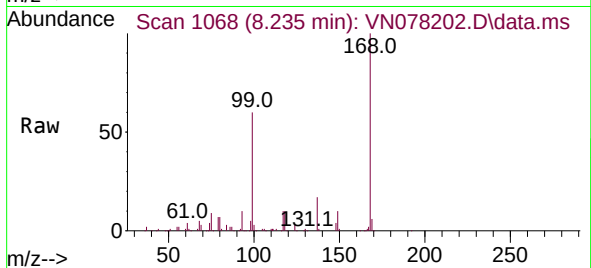
Acq: 14 Jun 2023 13:44

Instrument :

MSVOA_N

ClientSampleId :

GWOW-BR-05-103-123-061323DL



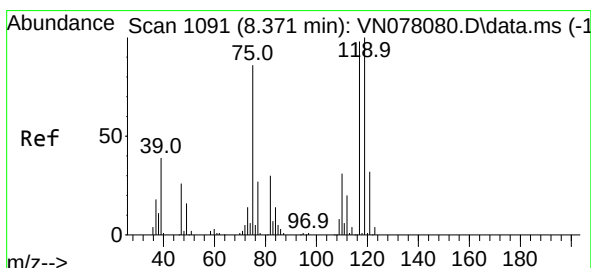
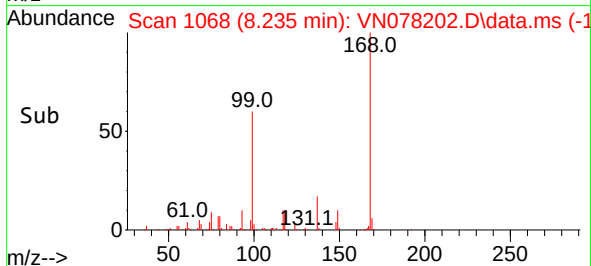
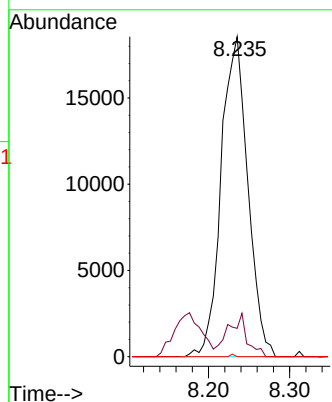
Tgt Ion: 75 Resp: 42322

Ion Ratio Lower Upper

75 100

110 9.7 19.1 57.3#

77 0.1 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.265 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN078202.D

Acq: 14 Jun 2023 13:44

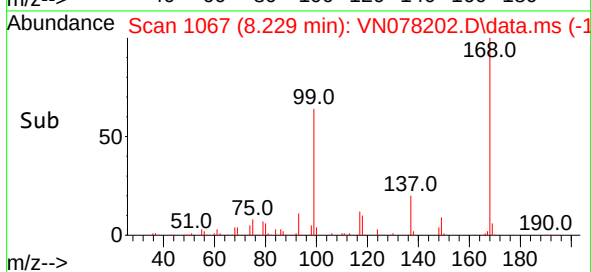
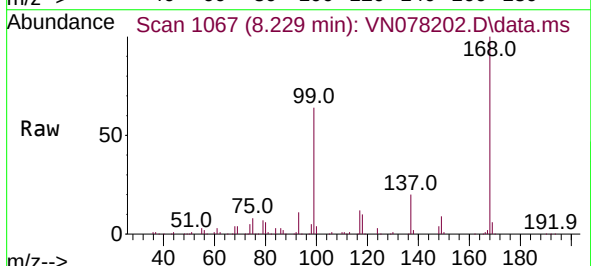
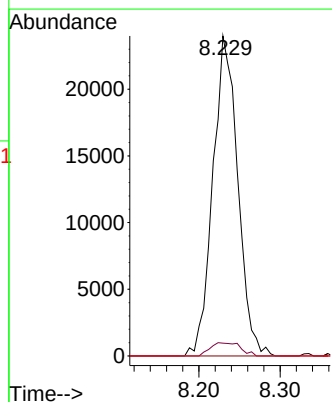
Tgt Ion: 117 Resp: 51223

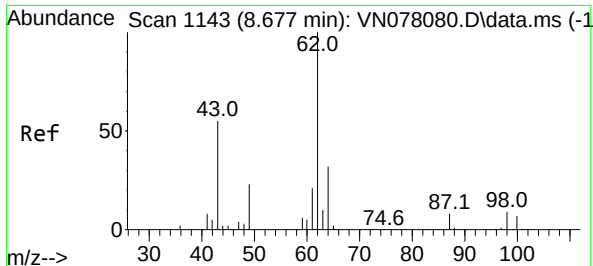
Ion Ratio Lower Upper

117 100

119 4.0 77.3 115.9#

121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 1.206 ug/l

RT: 8.676 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VN078202.D

Acq: 14 Jun 2023 13:44

Instrument :

MSVOA_N

ClientSampleId :

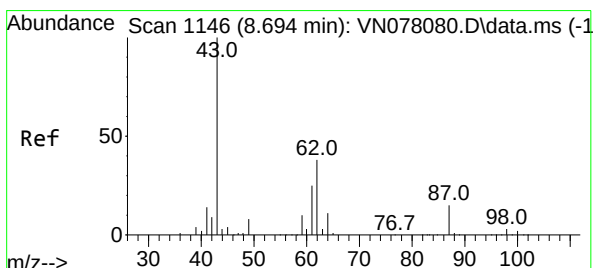
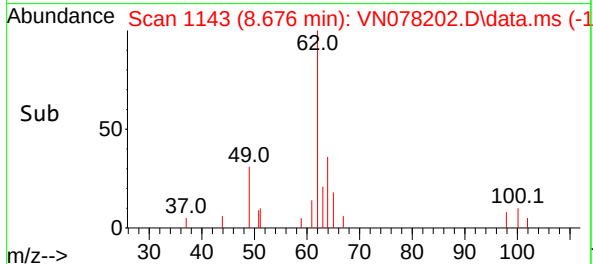
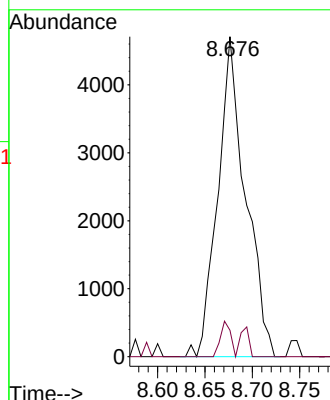
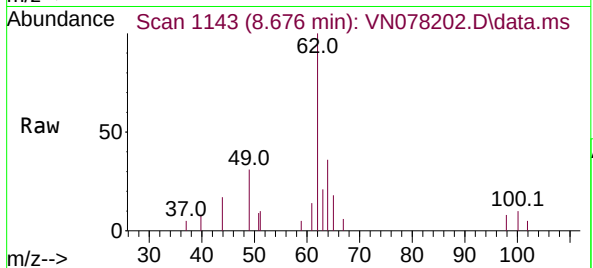
GWOW-BR-05-103-123-061323DL

Tgt Ion: 62 Resp: 9555

Ion Ratio Lower Upper

62 100

98 4.1 0.0 19.8



#43

Isopropyl Acetate

Concen: 0.265 ug/l

RT: 8.771 min Scan# 1159

Delta R.T. 0.076 min

Lab File: VN078202.D

Acq: 14 Jun 2023 13:44

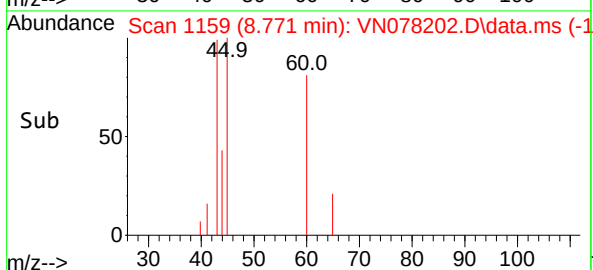
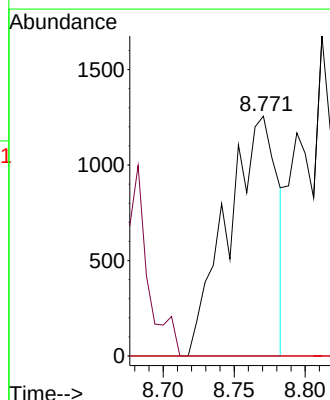
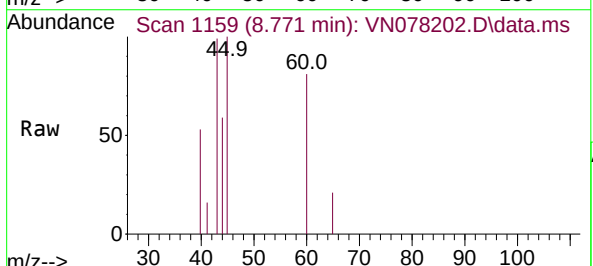
Tgt Ion: 43 Resp: 3064

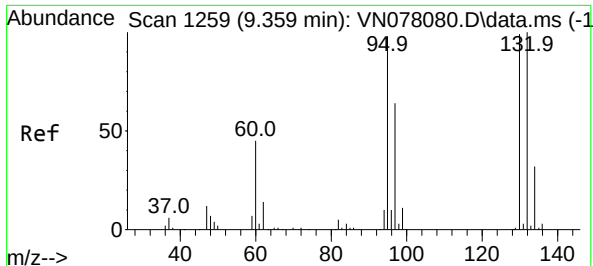
Ion Ratio Lower Upper

43 100

61 0.0 24.7 37.1#

87 0.0 14.6 21.8#

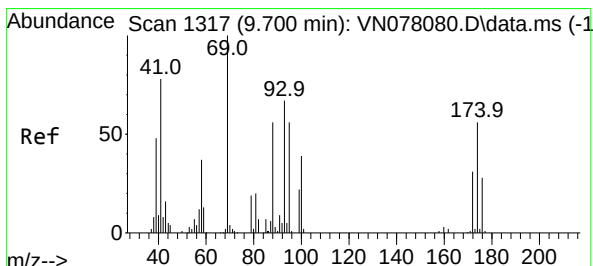
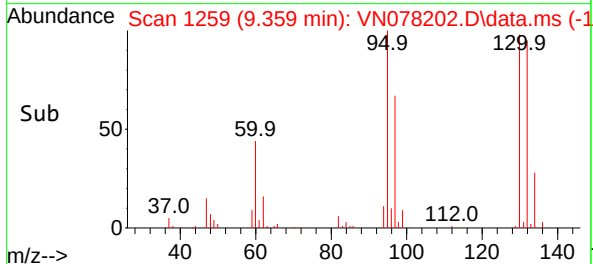
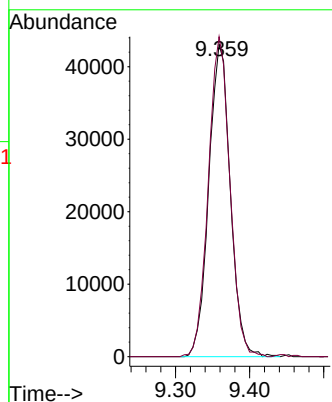
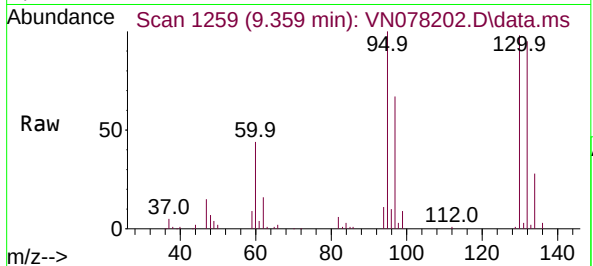




#44
Trichloroethene
Concen: 14.255 ug/l
RT: 9.359 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

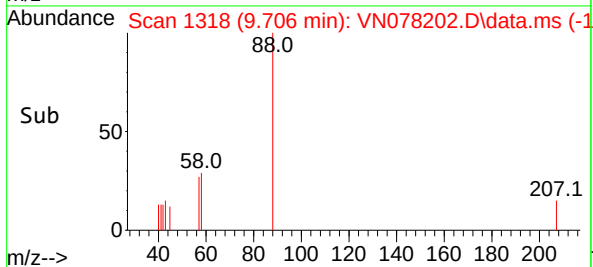
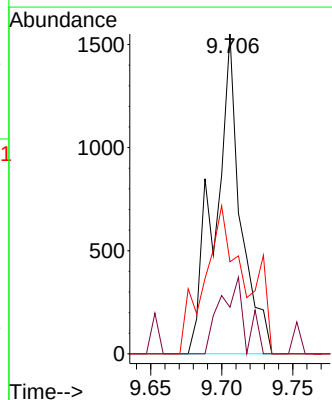
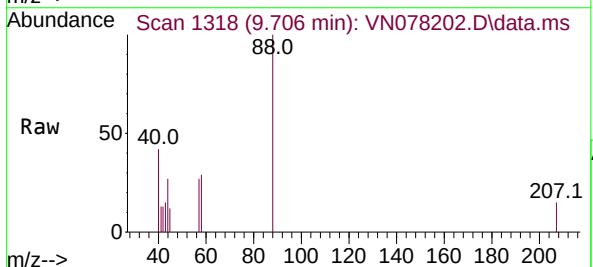
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-103-123-061323DL

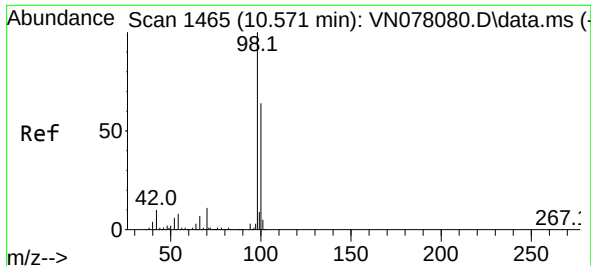
Tgt Ion:130 Resp: 87026
Ion Ratio Lower Upper
130 100
95 102.4 0.0 204.6



#49
1,4-Dioxane
Concen: 19.032 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

Tgt Ion: 88 Resp: 1942
Ion Ratio Lower Upper
88 100
43 23.2 17.0 25.6
58 74.0 47.0 70.4#

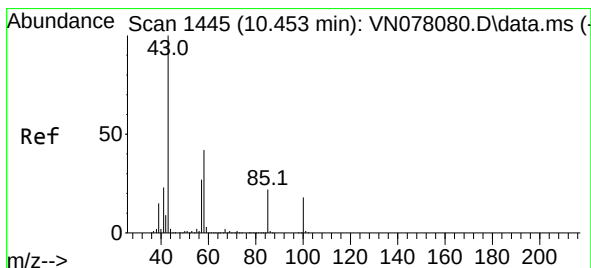
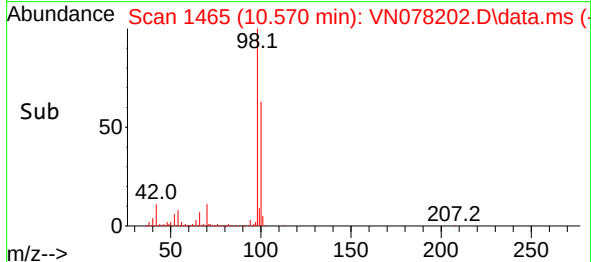
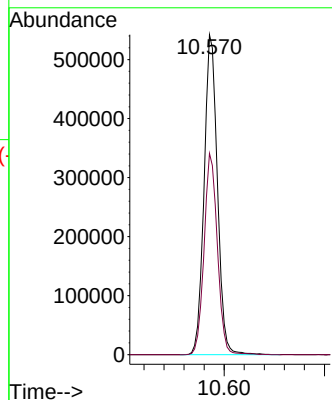
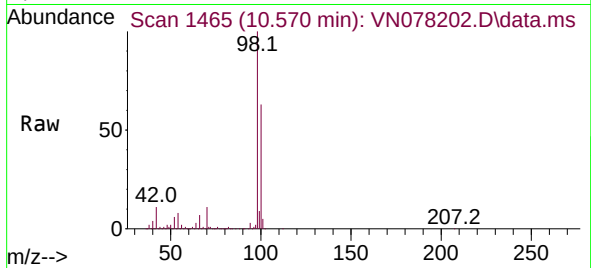




#50
Toluene-d8
Concen: 48.044 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

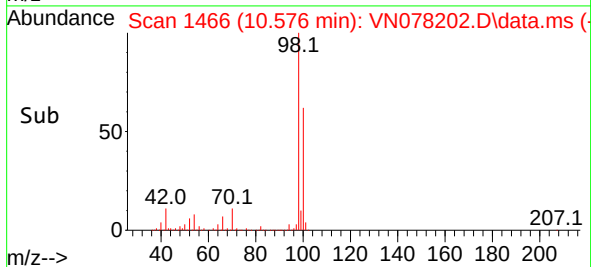
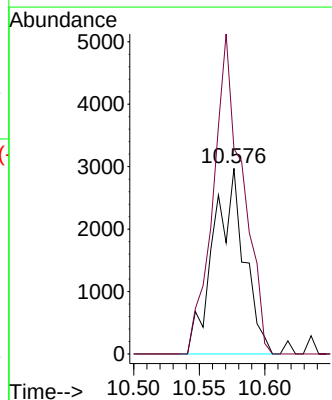
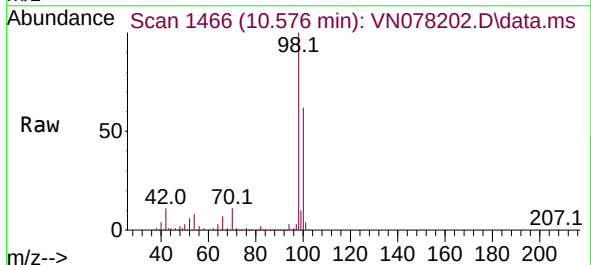
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-103-123-061323DL

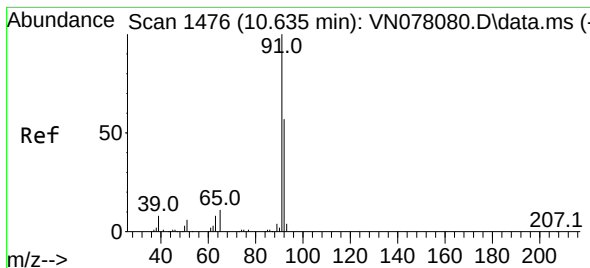
Tgt Ion: 98 Resp: 999841
Ion Ratio Lower Upper
98 100
100 62.9 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.797 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.123 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

Tgt Ion: 43 Resp: 4854
Ion Ratio Lower Upper
43 100
58 163.9 36.6 54.8#





#52

Toluene

Concen: 0.536 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. -0.000 min

Lab File: VN078202.D

Acq: 14 Jun 2023 13:44

Instrument :

MSVOA_N

ClientSampleId :

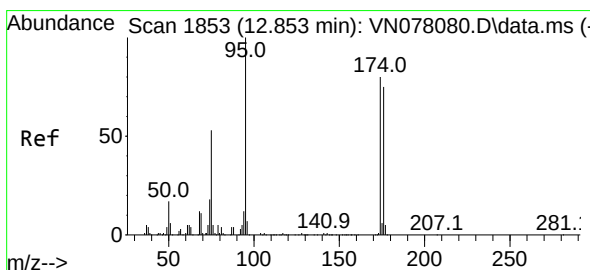
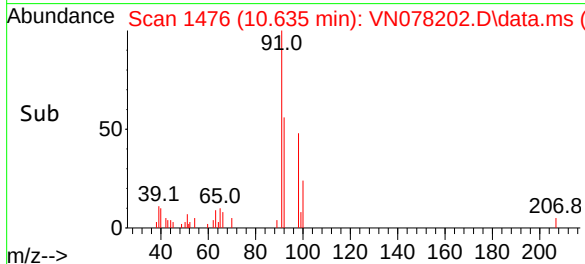
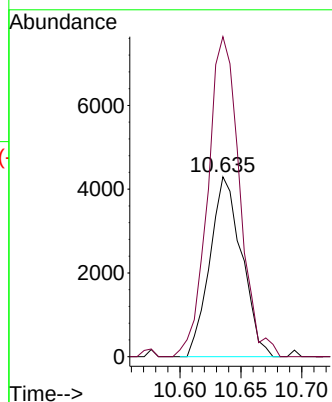
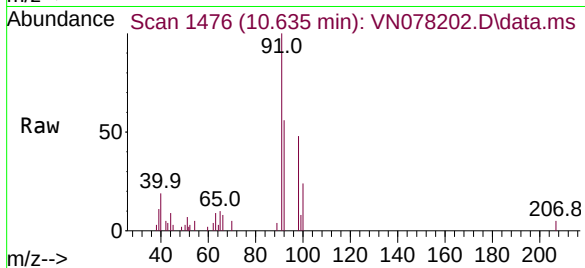
GWOW-BR-05-103-123-061323DL

Tgt Ion: 92 Resp: 7828

Ion Ratio Lower Upper

92 100

91 177.6 137.4 206.0



#62

4-Bromofluorobenzene

Concen: 47.306 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VN078202.D

Acq: 14 Jun 2023 13:44

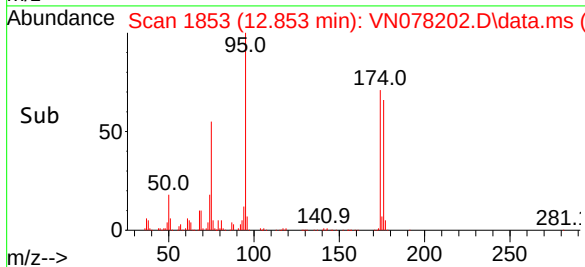
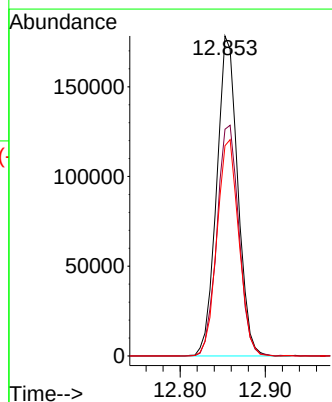
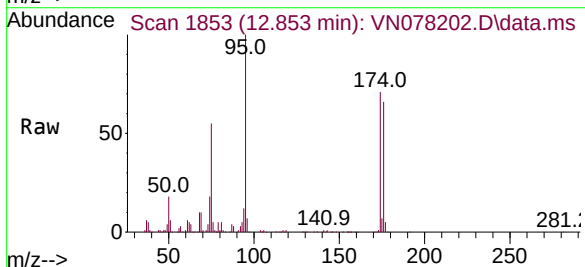
Tgt Ion: 95 Resp: 306055

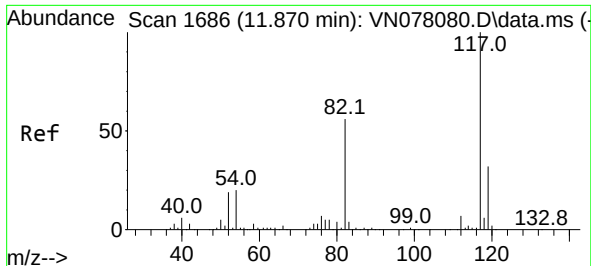
Ion Ratio Lower Upper

95 100

174 74.8 0.0 143.8

176 70.2 0.0 135.8

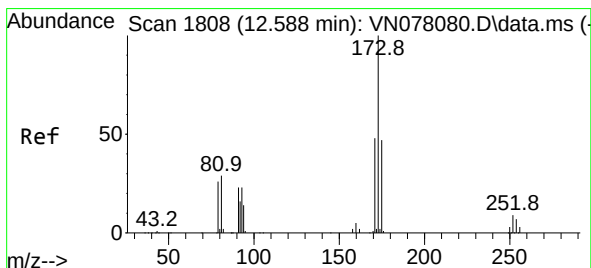
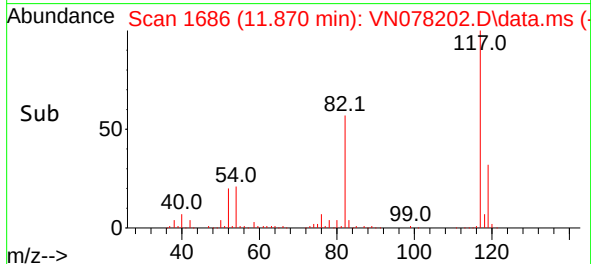
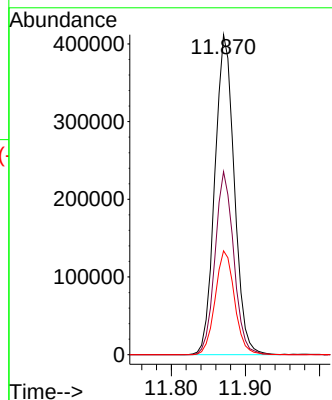
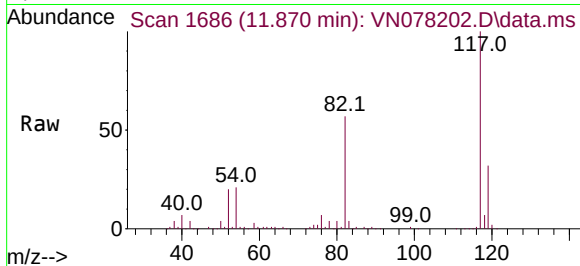




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

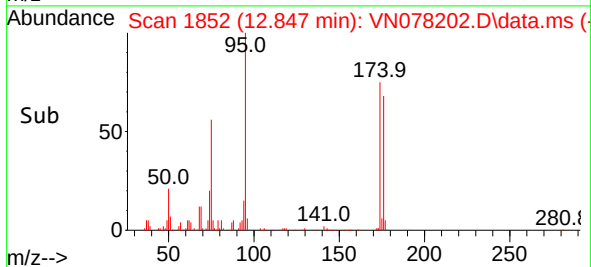
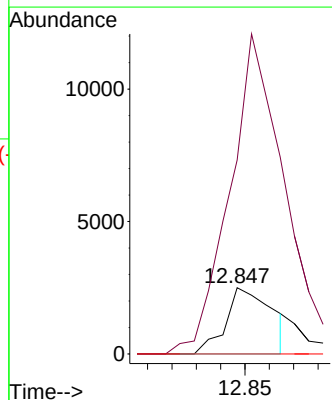
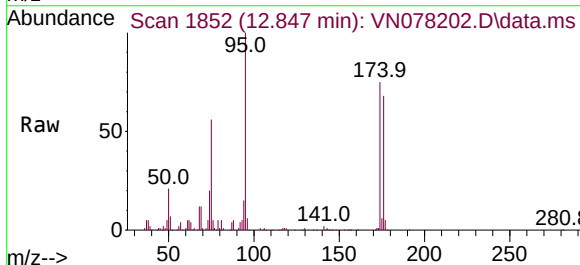
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-103-123-061323DL

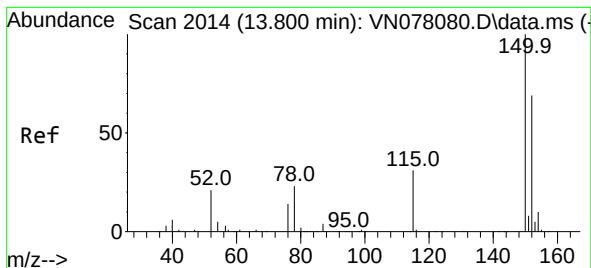
Tgt Ion:117 Resp: 750274
Ion Ratio Lower Upper
117 100
82 57.2 44.0 66.0
119 32.5 25.6 38.4



#71
Bromoform
Concen: 0.867 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.259 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

Tgt Ion:173 Resp: 3307
Ion Ratio Lower Upper
173 100
175 479.2 24.3 73.0#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078202.D

Acq: 14 Jun 2023 13:44

Instrument :

MSVOA_N

ClientSampleId :

GWOW-BR-05-103-123-061323DL

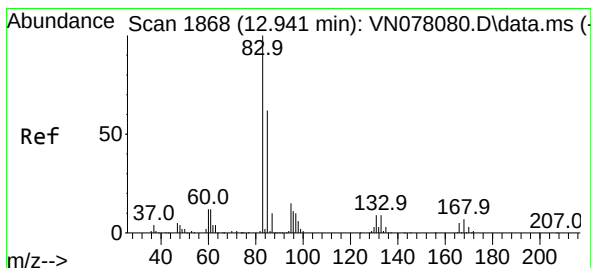
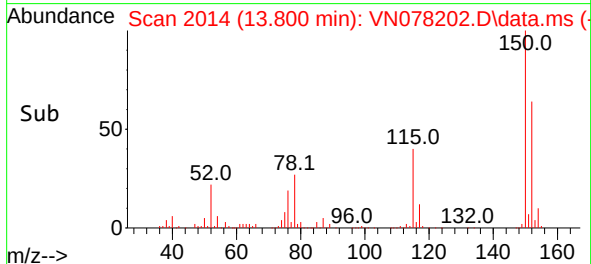
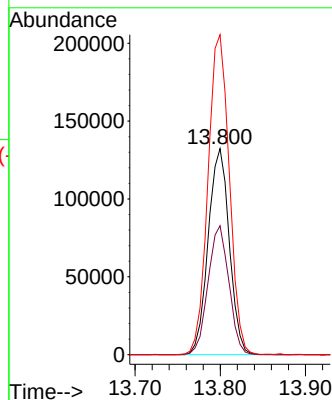
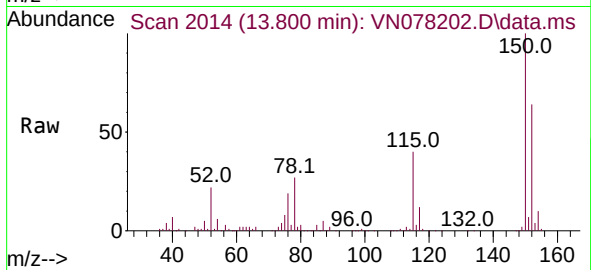
Tgt Ion:152 Resp: 227487

Ion Ratio Lower Upper

152 100

115 61.9 32.3 96.8

150 156.8 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.941 min Scan# 1868

Delta R.T. -0.000 min

Lab File: VN078202.D

Acq: 14 Jun 2023 13:44

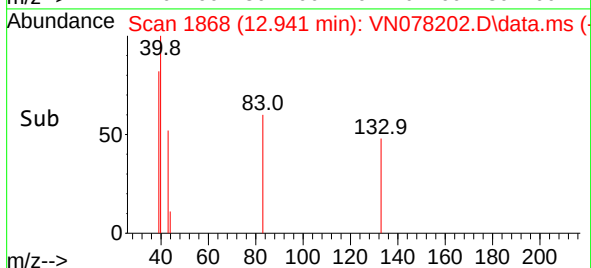
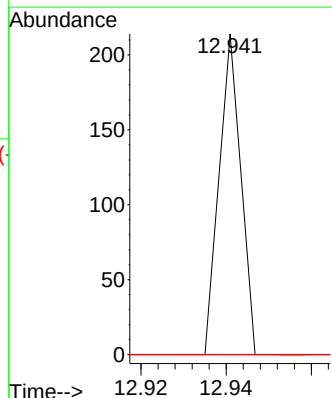
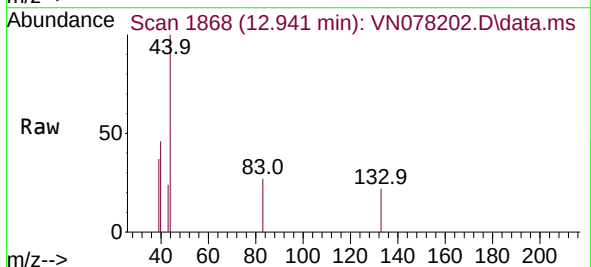
Tgt Ion: 83 Resp: 76

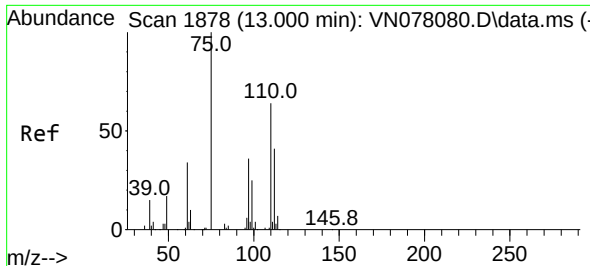
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#

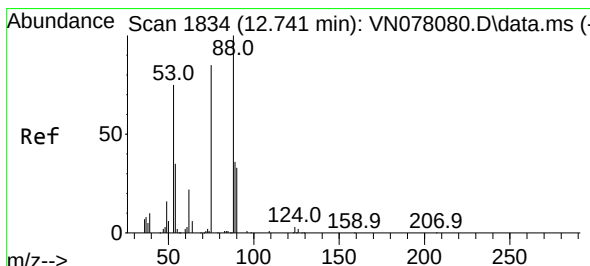
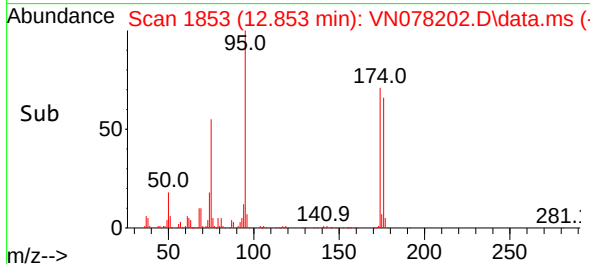
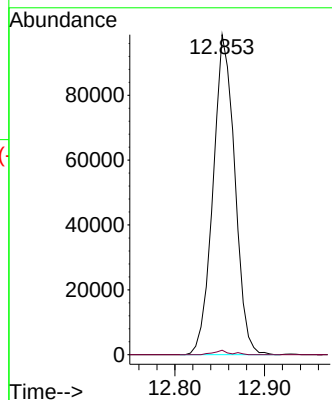
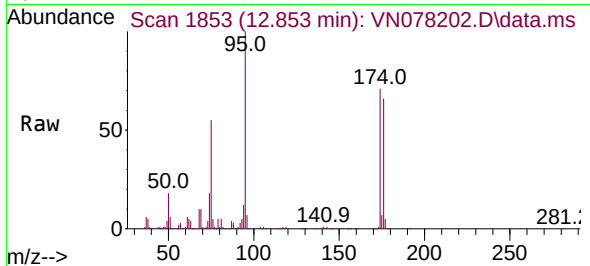




#76
1,2,3-Trichloropropane
Concen: 30.881 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

Instrument : MSVOA_N
ClientSampleId : GWOW-BR-05-103-123-061323DL

Tgt Ion: 75 Resp: 166076
Ion Ratio Lower Upper
75 100
77 1.0 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 94.877 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078202.D
Acq: 14 Jun 2023 13:44

Tgt Ion: 75 Resp: 166076
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

