

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062023\
 Data File : VN078307.D
 Acq On : 20 Jun 2023 14:12
 Operator : JC\MD
 Sample : 03338-02DL 4X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GWOW-BR-05-248-268-061923DL

Quant Time: Jun 21 05:46:32 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)

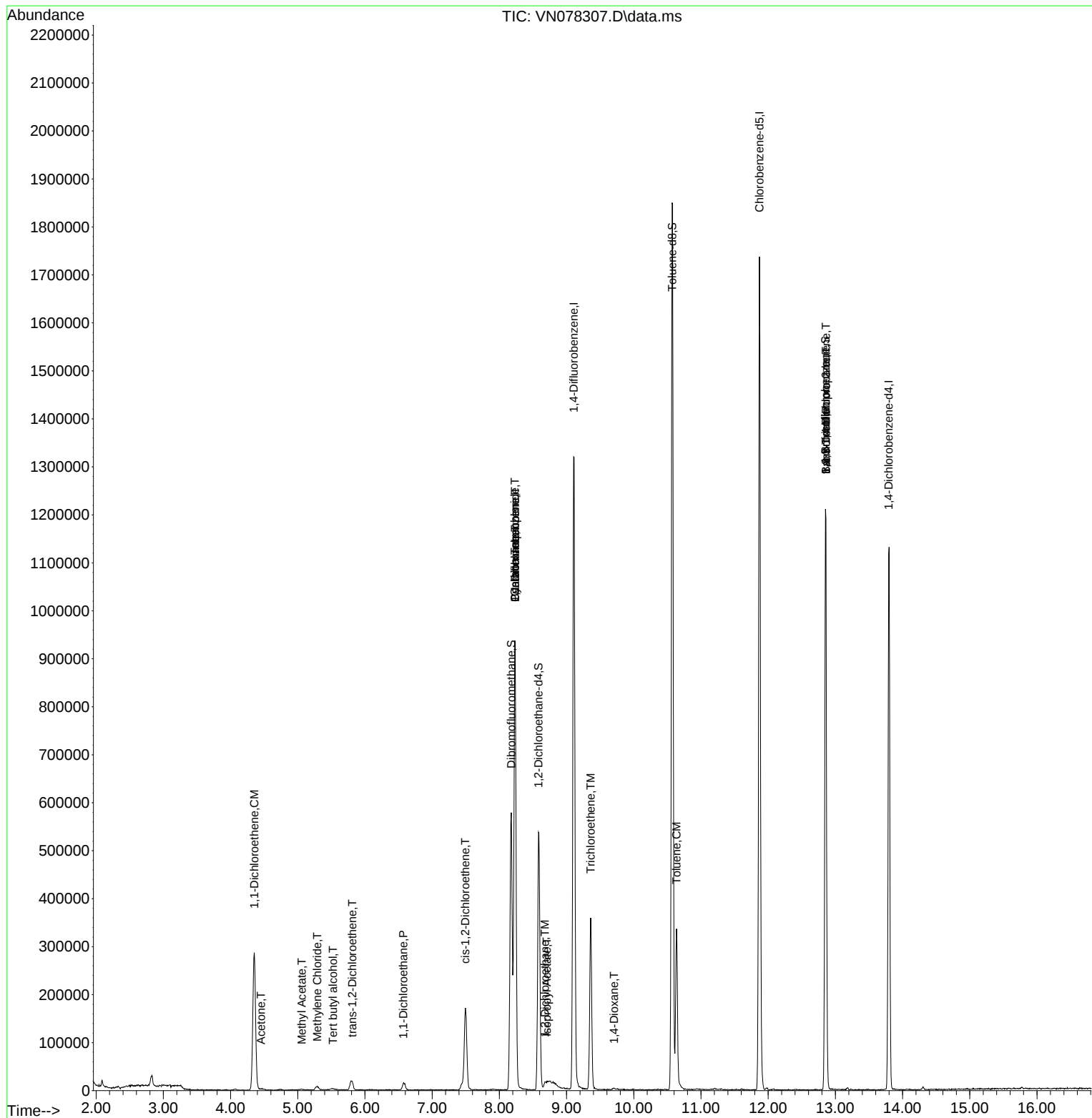
Internal Standards						
1) Pentafluorobenzene	8.235	168	698272	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	1197248	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	1030557	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	320847	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	449793	48.312	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.620%		
35) Dibromofluoromethane	8.177	113	416167	54.976	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	109.960%		
50) Toluene-d8	10.571	98	1359528	46.586	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.180%		
62) 4-Bromofluorobenzene	12.853	95	428986	47.285	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	94.560%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1070	Below Cal	#	71
11) Tert butyl alcohol	5.524	59	1003	0.780	ug/l #	72
12) 1,1-Dichloroethene	4.353	96	175647	23.035	ug/l	90
16) Acetone	4.453	43	1513	0.565	ug/l #	40
18) Methyl Acetate	5.059	43	2473	0.200	ug/l #	61
20) Methylene Chloride	5.289	84	6017	0.679	ug/l #	87
21) trans-1,2-Dichloroethene	5.812	96	13380	1.627	ug/l	90
24) 1,1-Dichloroethane	6.571	63	20510	1.420	ug/l	99
27) cis-1,2-Dichloroethene	7.494	96	109447	11.157	ug/l	93
31) Cyclohexane	8.235	56	15289	1.280	ug/l #	9
36) 1,1-Dichloropropene	8.235	75	55830	5.142	ug/l #	47
38) Carbon Tetrachloride	8.229	117	72925	6.360	ug/l #	18
42) 1,2-Dichloroethane	8.677	62	12764	1.148	ug/l	92
43) Isopropyl Acetate	8.706	43	7186	0.443	ug/l #	81
44) Trichloroethene	9.359	130	127162	14.854	ug/l	99
49) 1,4-Dioxane	9.706	88	3301	23.070	ug/l #	85
52) Toluene	10.635	92	143858	7.029	ug/l	95
71) Bromoform	12.859	173	2988	0.570	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.859	83	440	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.859	75	230471	30.385	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	230471	93.353	ug/l #	15
94) Hexachlorobutadiene	15.500	225	55	Below Cal	#	19

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

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QLast Update : Wed Jun 07 05:05:00 2023
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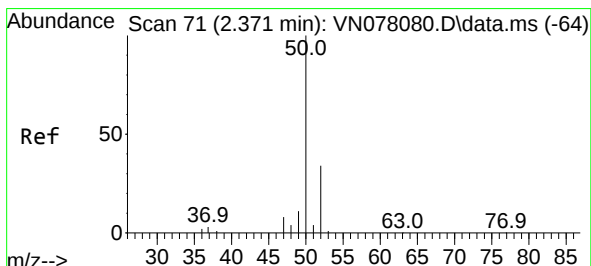
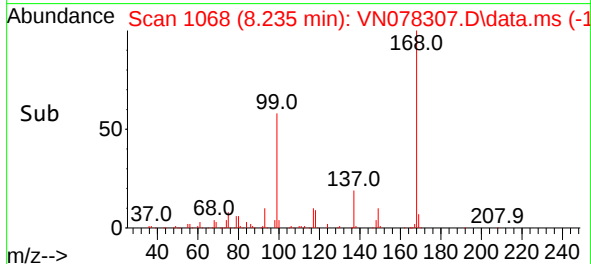
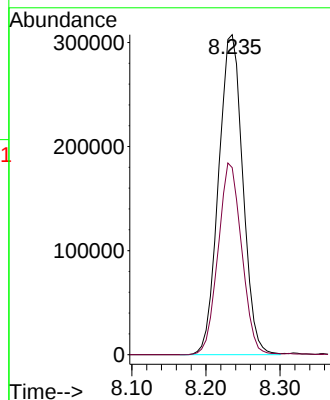
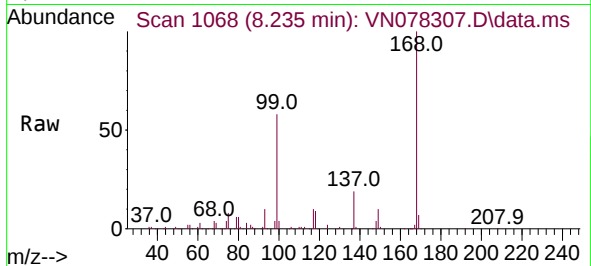




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

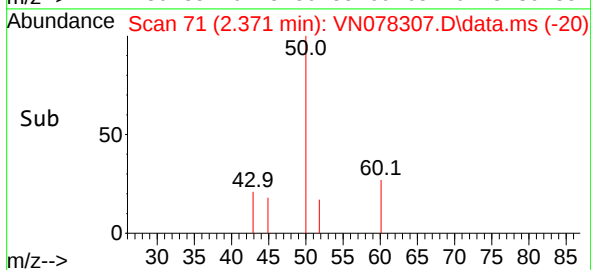
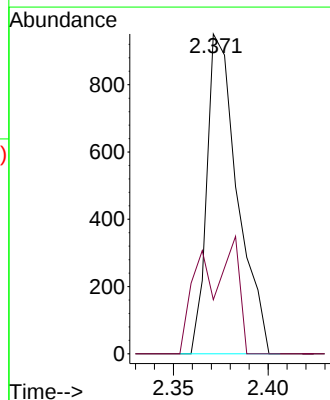
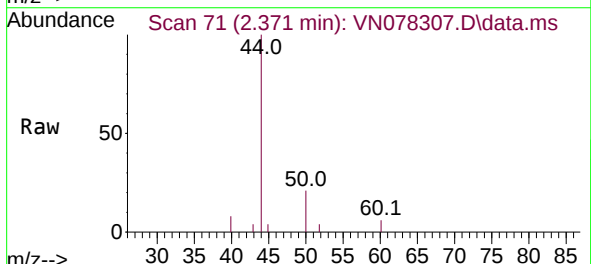
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-248-268-061923DL

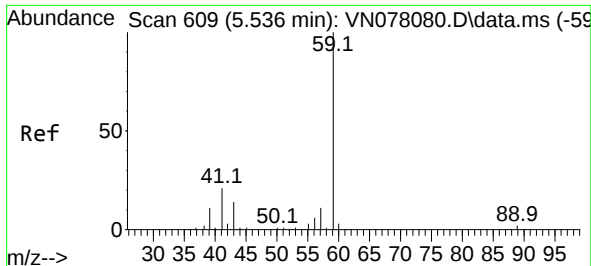
Tgt Ion:168 Resp: 698272
Ion Ratio Lower Upper
168 100
99 58.5 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

Tgt Ion: 50 Resp: 1070
Ion Ratio Lower Upper
50 100
52 16.9 26.5 39.7#

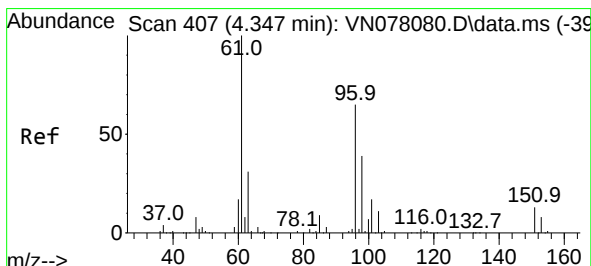
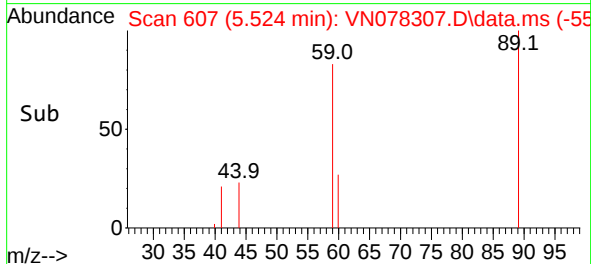
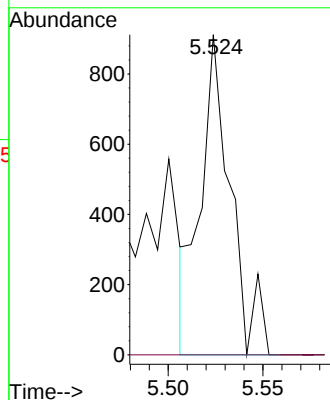
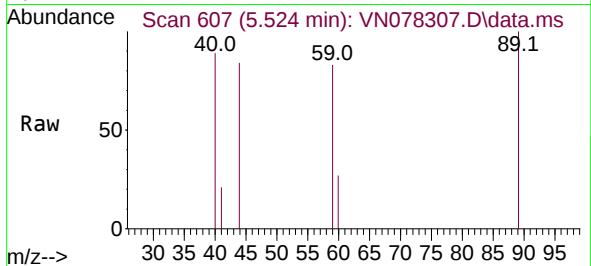




#11
Tert butyl alcohol
Concen: 0.780 ug/l
RT: 5.524 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

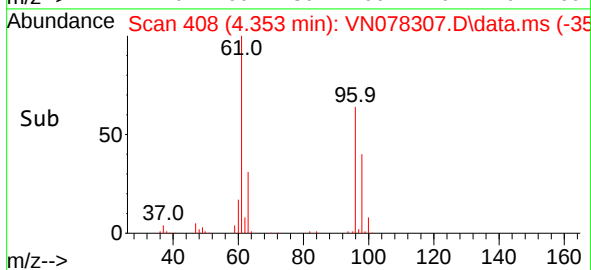
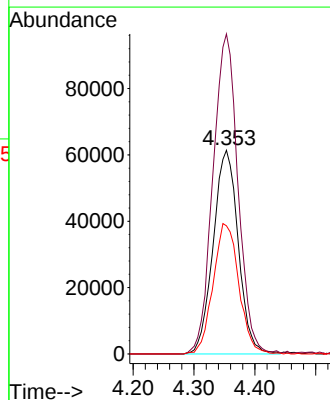
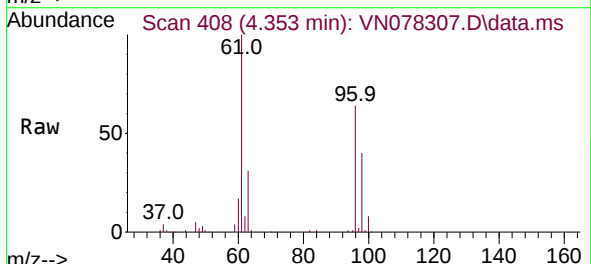
Instrument :
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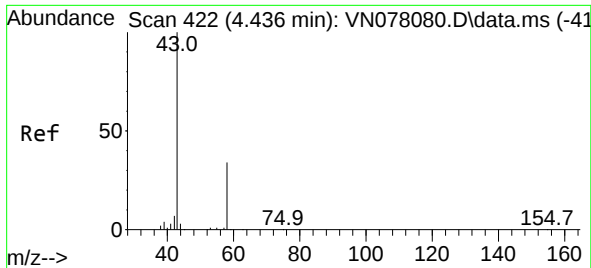
Tgt Ion: 59 Resp: 1003
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#12
1,1-Dichloroethene
Concen: 23.035 ug/l
RT: 4.353 min Scan# 408
Delta R.T. 0.006 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

Tgt Ion: 96 Resp: 175647
Ion Ratio Lower Upper
96 100
61 157.1 112.7 169.1
98 62.9 51.2 76.8

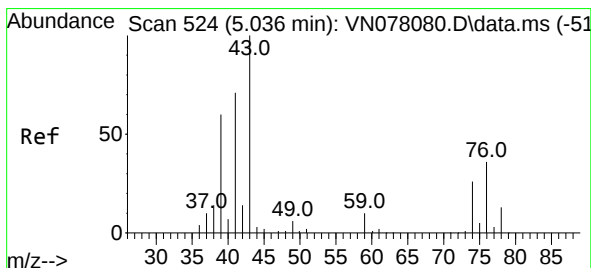
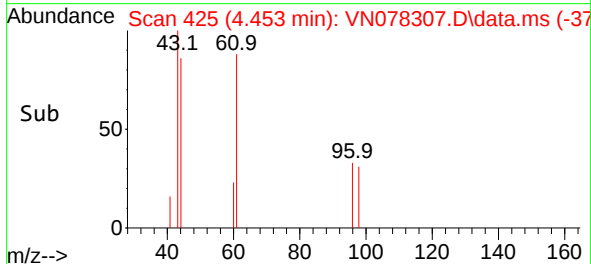
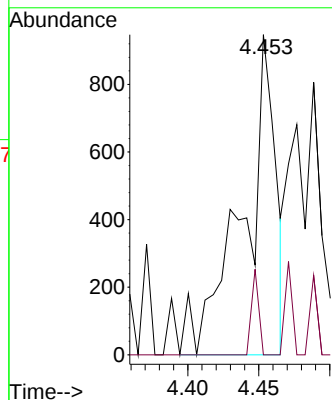
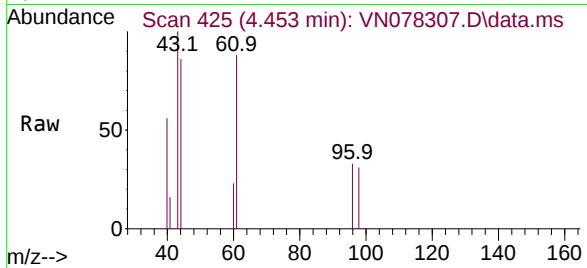




#16
Acetone
Concen: 0.565 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

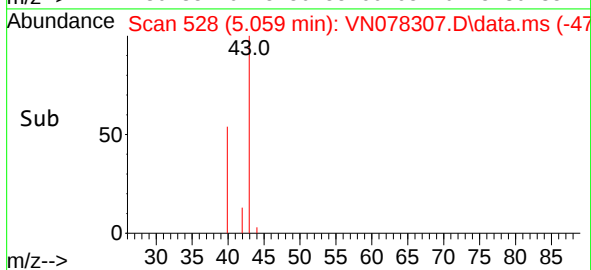
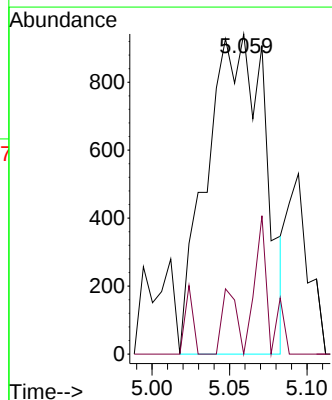
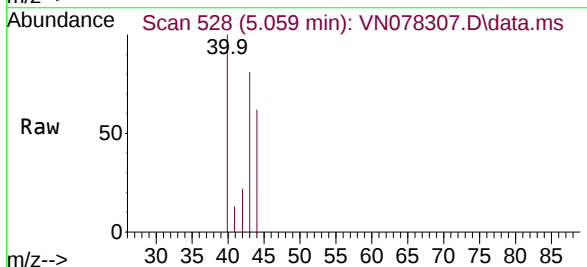
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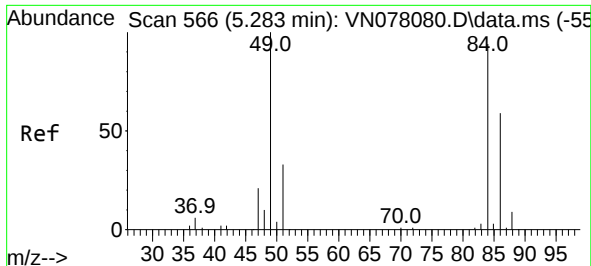
Tgt Ion: 43 Resp: 1513
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#18
Methyl Acetate
Concen: 0.200 ug/l
RT: 5.059 min Scan# 528
Delta R.T. 0.023 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

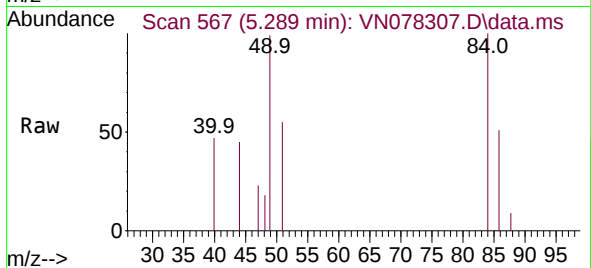
Tgt Ion: 43 Resp: 2473
Ion Ratio Lower Upper
43 100
74 10.6 26.2 39.4#



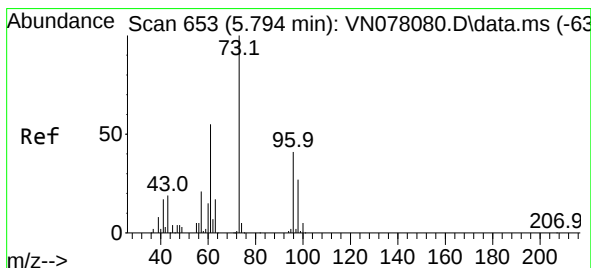
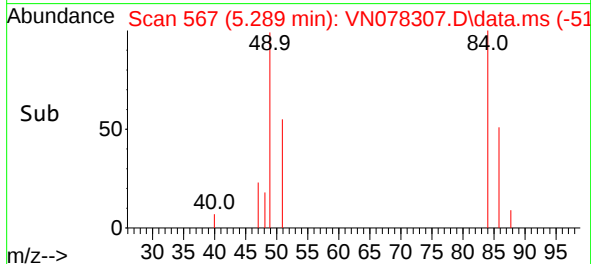
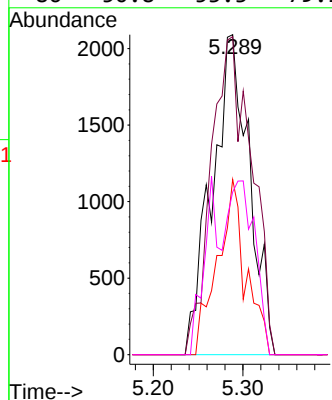


#20
Methylene Chloride
Concen: 0.679 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-248-268-061923DL

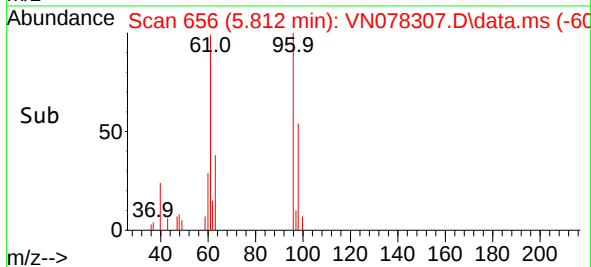
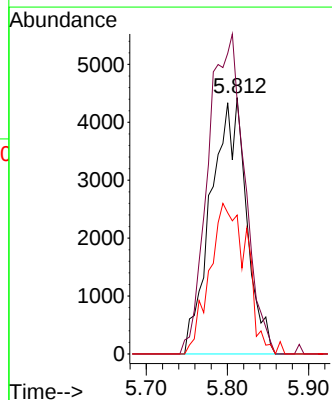
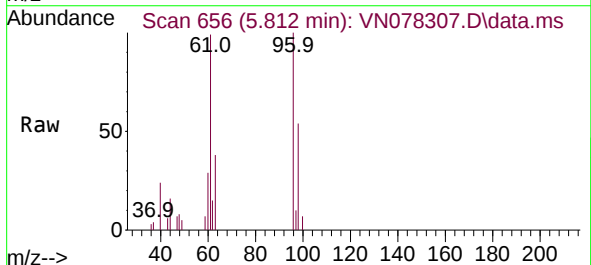


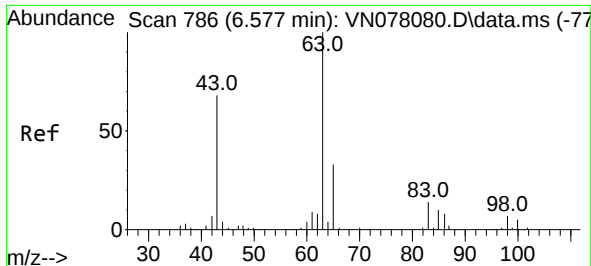
Tgt Ion:	84	Resp:	6017
Ion	Ratio	Lower	Upper
84	100		
49	99.4	79.7	119.5
51	54.8	25.2	37.8#
86	50.8	53.3	79.9#



#21
trans-1,2-Dichloroethene
Concen: 1.627 ug/l
RT: 5.812 min Scan# 656
Delta R.T. 0.018 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

Tgt Ion:	96	Resp:	13380
Ion	Ratio	Lower	Upper
96	100		
61	98.6	90.1	135.1
98	54.2	46.4	69.6

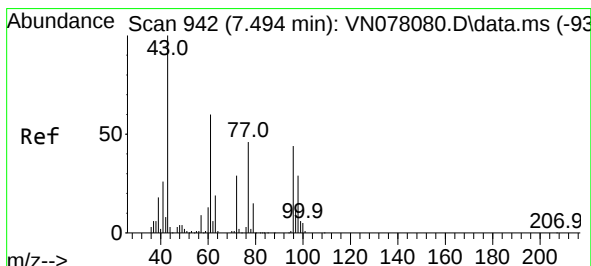
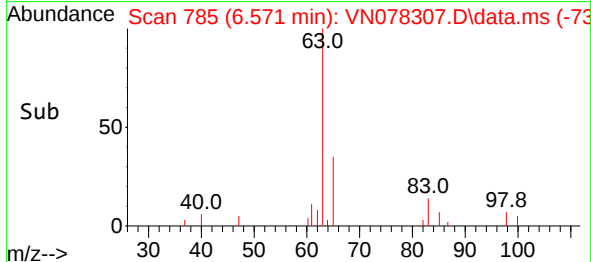
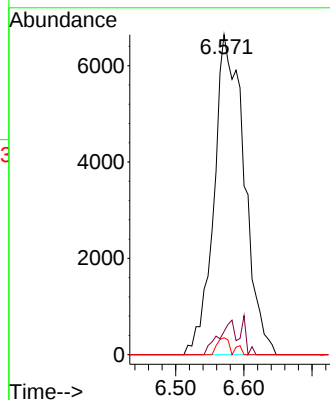
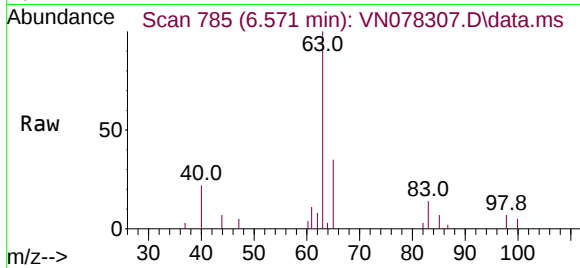




#24
 1,1-Dichloroethane
 Concen: 1.420 ug/l
 RT: 6.571 min Scan# 785
 Delta R.T. -0.006 min
 Lab File: VN078307.D
 Acq: 20 Jun 2023 14:12

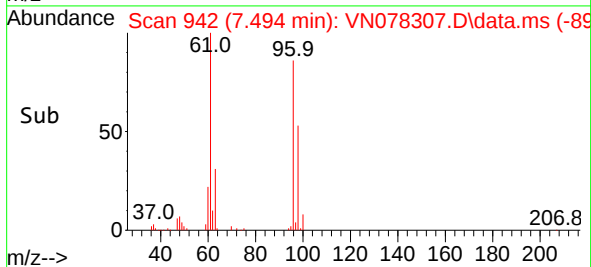
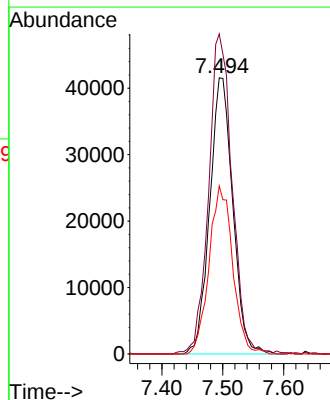
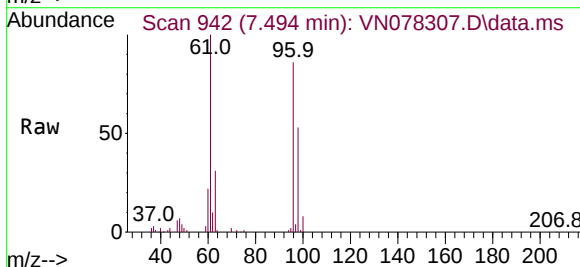
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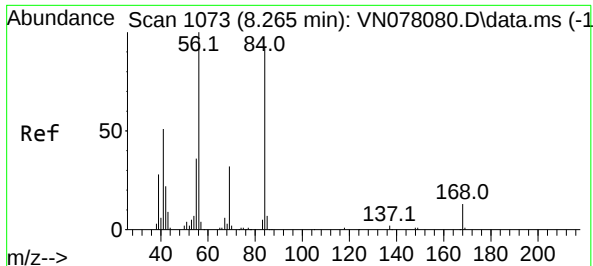
Tgt Ion: 63 Resp: 20510
 Ion Ratio Lower Upper
 63 100
 98 7.3 3.9 11.7
 100 5.3 2.5 7.4



#27
 cis-1,2-Dichloroethene
 Concen: 11.157 ug/l
 RT: 7.494 min Scan# 942
 Delta R.T. -0.000 min
 Lab File: VN078307.D
 Acq: 20 Jun 2023 14:12

Tgt Ion: 96 Resp: 109447
 Ion Ratio Lower Upper
 96 100
 61 117.8 0.0 255.2
 98 62.1 0.0 128.8

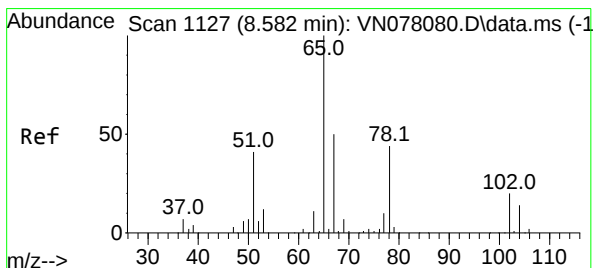
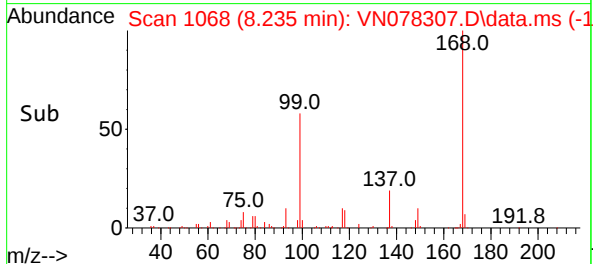
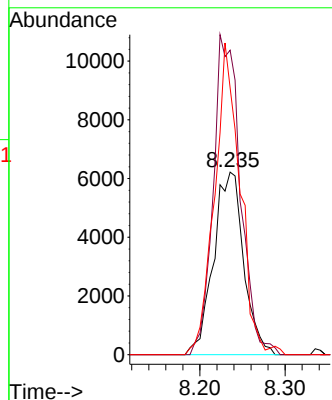
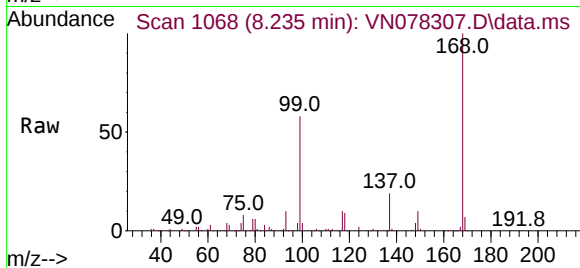




#31
Cyclohexane
Concen: 1.280 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.029 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

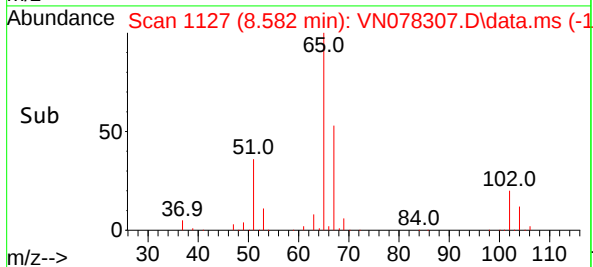
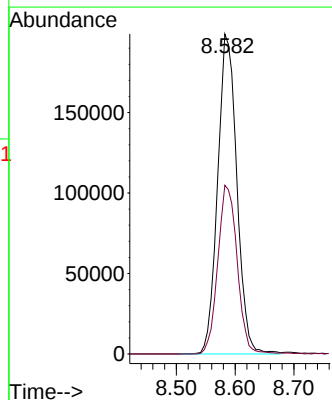
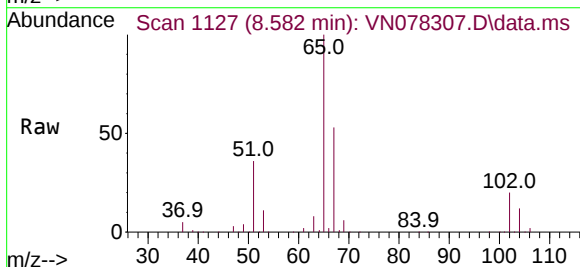
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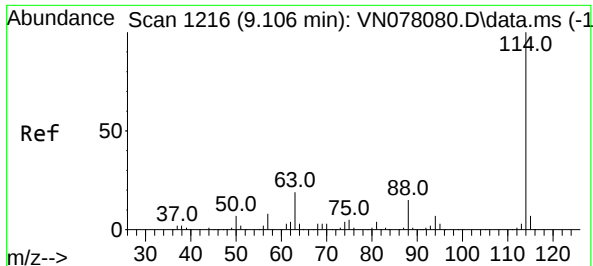
Tgt Ion: 56 Resp: 15289
Ion Ratio Lower Upper
56 100
69 166.8 26.8 40.2#
84 146.2 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 48.312 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

Tgt Ion: 65 Resp: 449793
Ion Ratio Lower Upper
65 100
67 53.2 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN078307.D

Acq: 20 Jun 2023 14:12

Instrument :

MSVOA_N

ClientSampleId :

GWOW-BR-05-248-268-061923DL

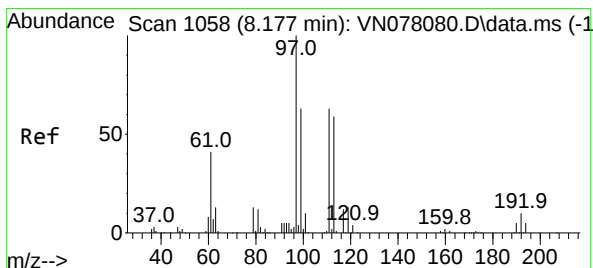
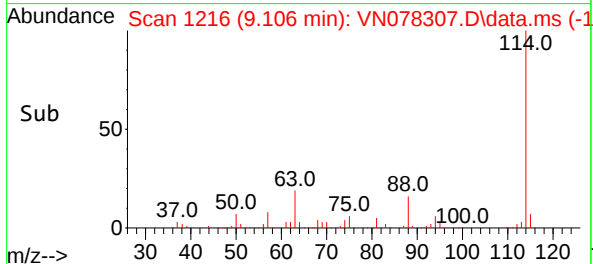
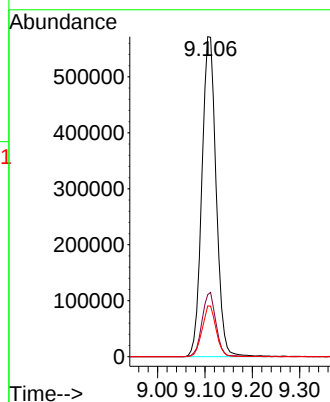
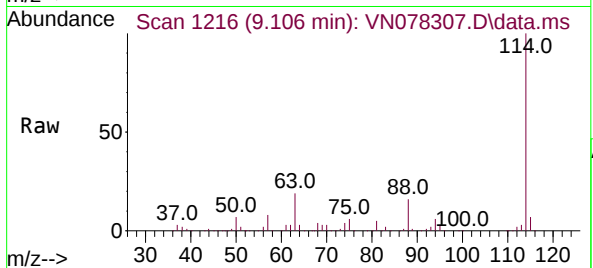
Tgt Ion:114 Resp: 1197248

Ion Ratio Lower Upper

114 100

63 19.4 0.0 36.4

88 15.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.976 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN078307.D

Acq: 20 Jun 2023 14:12

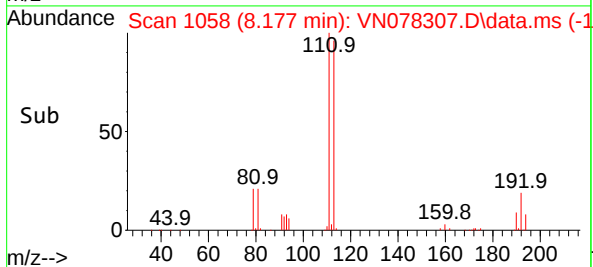
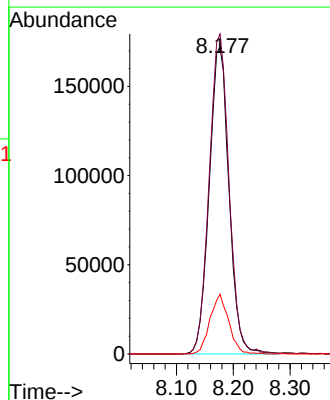
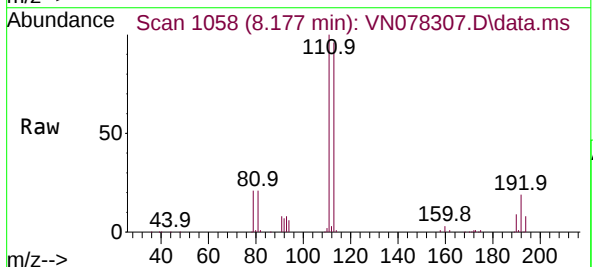
Tgt Ion:113 Resp: 416167

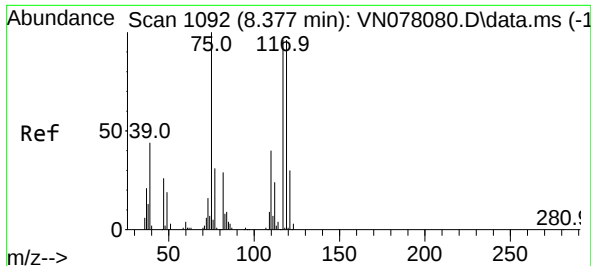
Ion Ratio Lower Upper

113 100

111 104.7 82.6 123.8

192 18.4 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.142 ug/l

RT: 8.235 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN078307.D

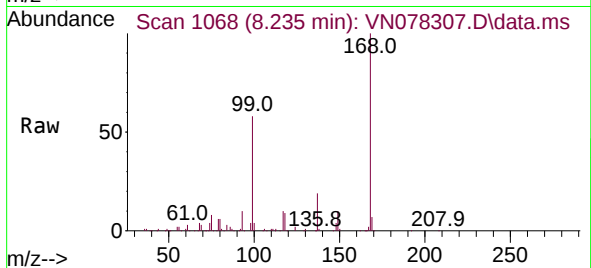
Acq: 20 Jun 2023 14:12

Instrument :

MSVOA_N

ClientSampleId :

GWOW-BR-05-248-268-061923DL



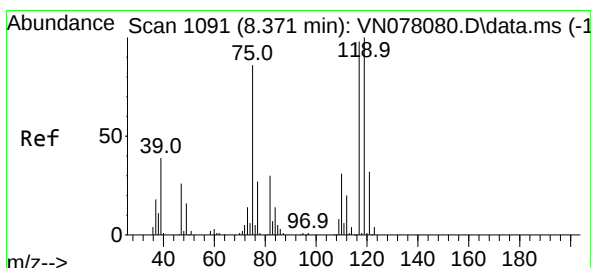
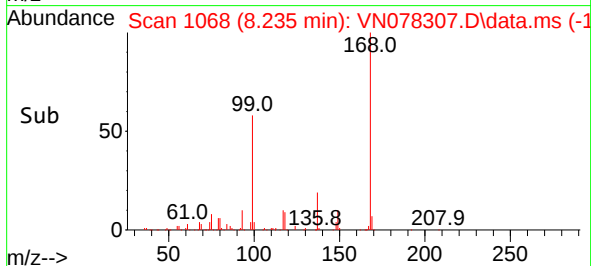
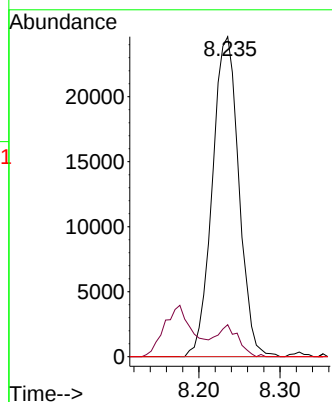
Tgt Ion: 75 Resp: 55830

Ion Ratio Lower Upper

75 100

110 8.3 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.360 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN078307.D

Acq: 20 Jun 2023 14:12

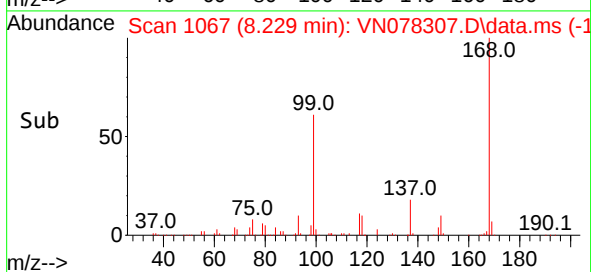
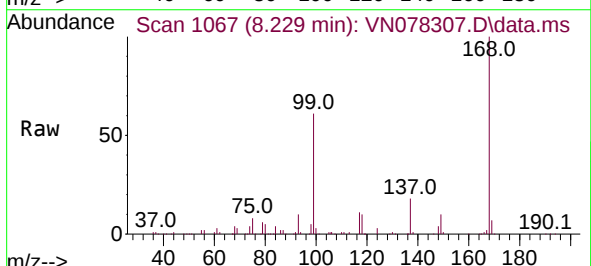
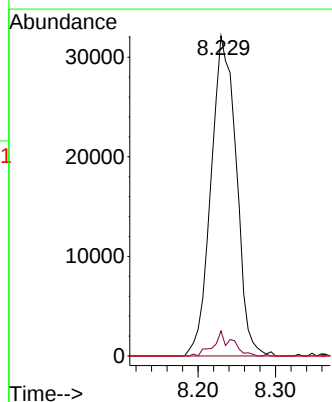
Tgt Ion: 117 Resp: 72925

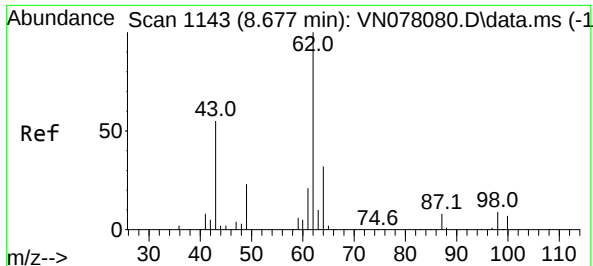
Ion Ratio Lower Upper

117 100

119 7.8 77.3 115.9#

121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 1.148 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VN078307.D

Acq: 20 Jun 2023 14:12

Instrument :

MSVOA_N

ClientSampleId :

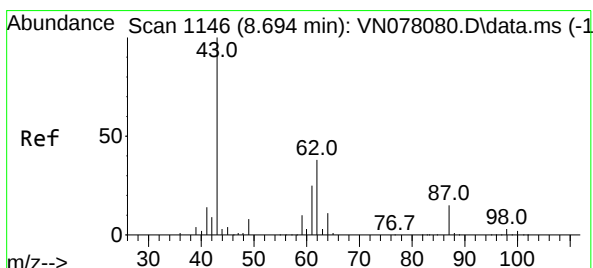
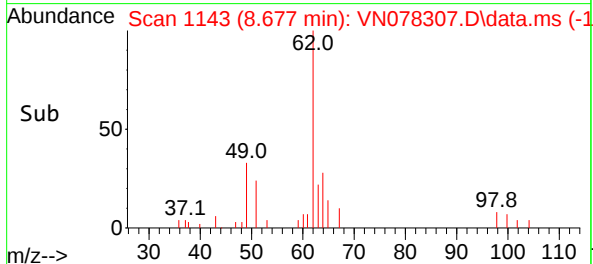
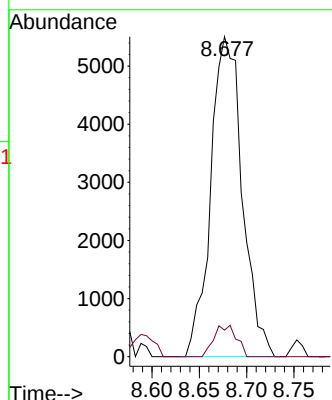
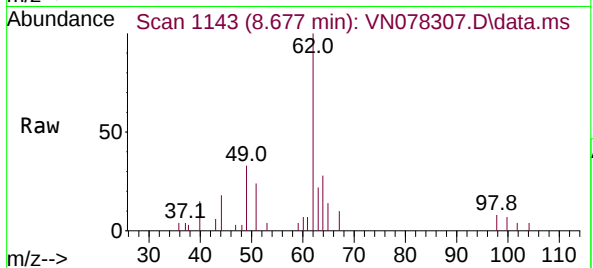
GWOW-BR-05-248-268-061923DL

Tgt Ion: 62 Resp: 12764

Ion Ratio Lower Upper

62 100

98 7.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 0.443 ug/l

RT: 8.706 min Scan# 1148

Delta R.T. 0.012 min

Lab File: VN078307.D

Acq: 20 Jun 2023 14:12

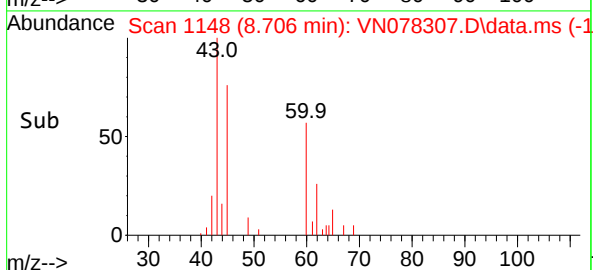
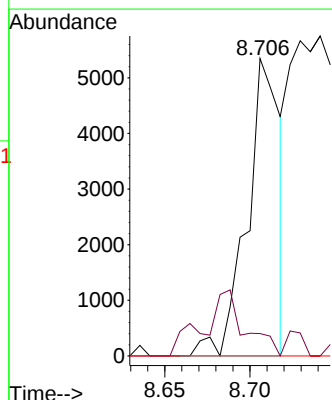
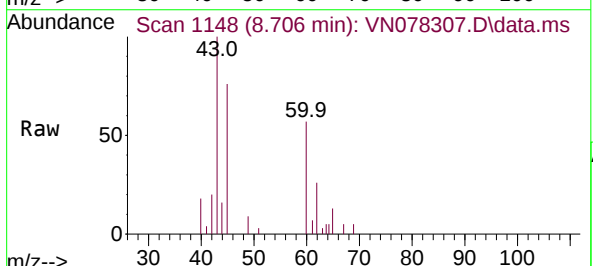
Tgt Ion: 43 Resp: 7186

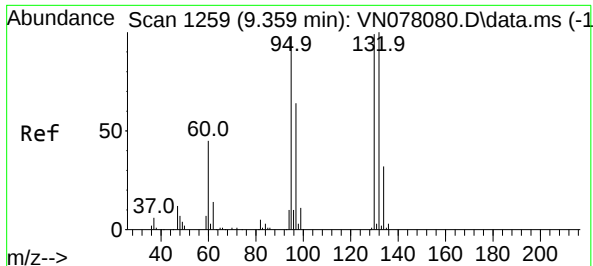
Ion Ratio Lower Upper

43 100

61 27.7 24.7 37.1

87 0.0 14.6 21.8

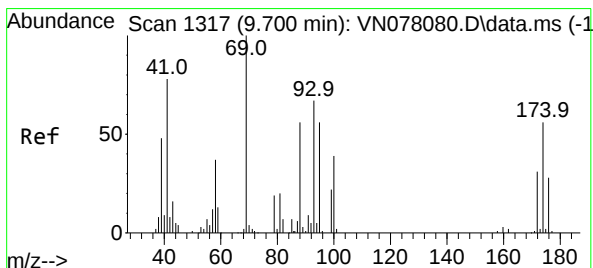
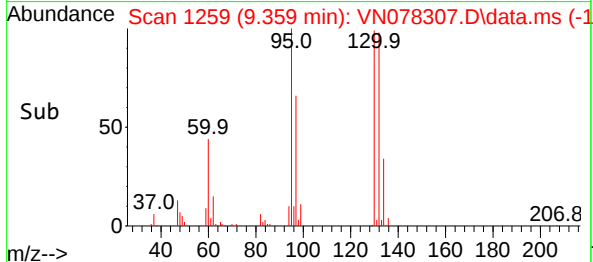
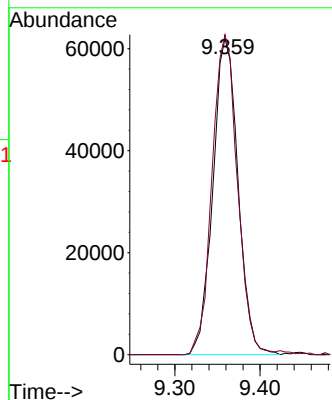
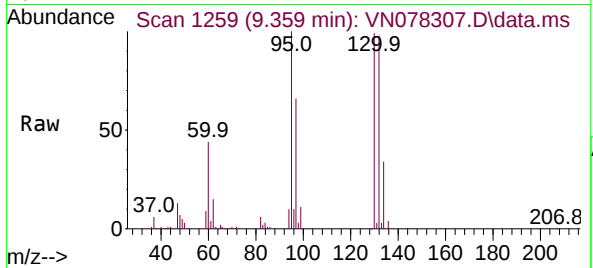




#44
Trichloroethene
Concen: 14.854 ug/l
RT: 9.359 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

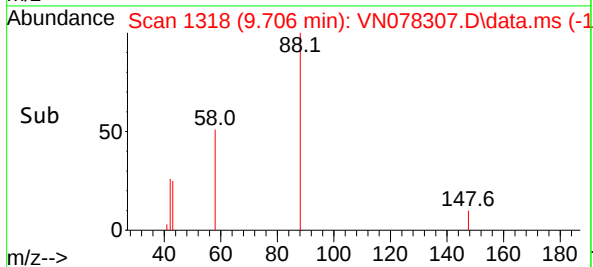
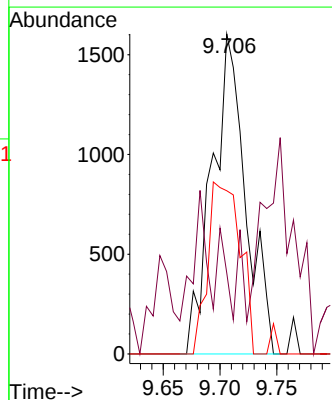
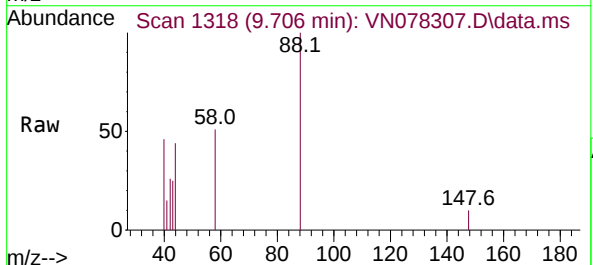
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-248-268-061923DL

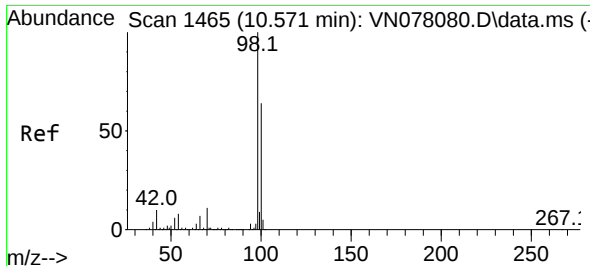
Tgt Ion:130 Resp: 127162
Ion Ratio Lower Upper
130 100
95 101.2 0.0 204.6



#49
1,4-Dioxane
Concen: 23.070 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

Tgt Ion: 88 Resp: 3301
Ion Ratio Lower Upper
88 100
43 7.4 17.0 25.6#
58 51.8 47.0 70.4

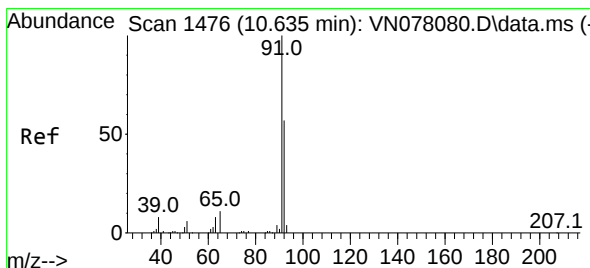
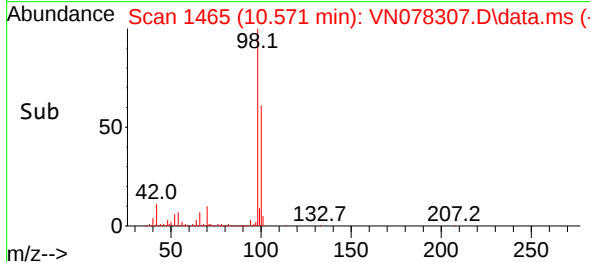
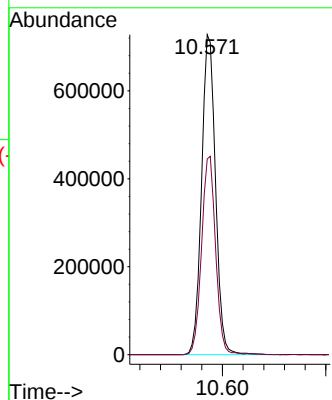
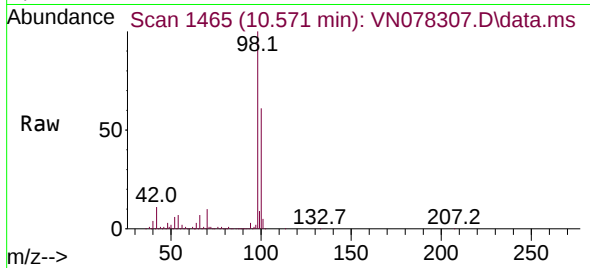




#50
Toluene-d8
Concen: 46.586 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

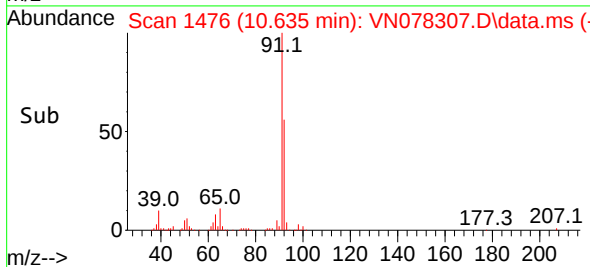
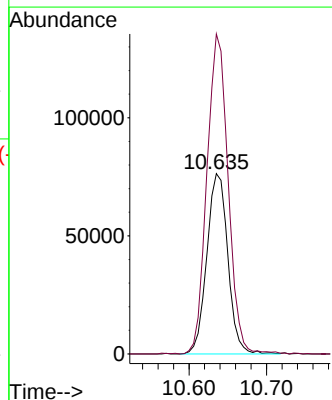
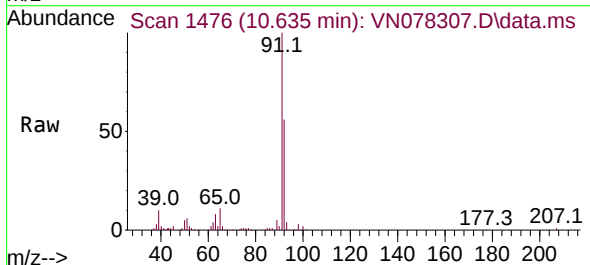
Instrument : MSVOA_N
ClientSampleId : GWOW-BR-05-248-268-061923DL

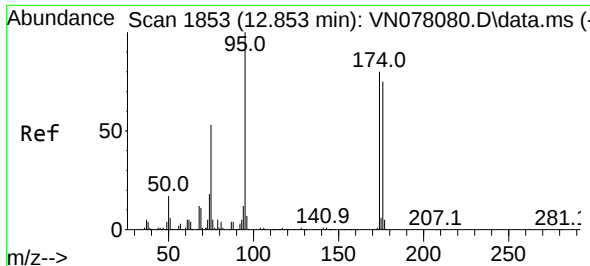
Tgt Ion: 98 Resp: 1359528
Ion Ratio Lower Upper
98 100
100 62.3 52.0 78.0



#52
Toluene
Concen: 7.029 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

Tgt Ion: 92 Resp: 143858
Ion Ratio Lower Upper
92 100
91 179.3 137.4 206.0

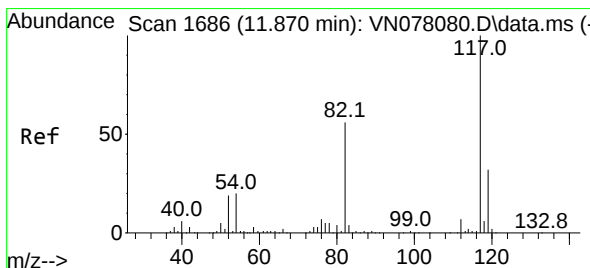
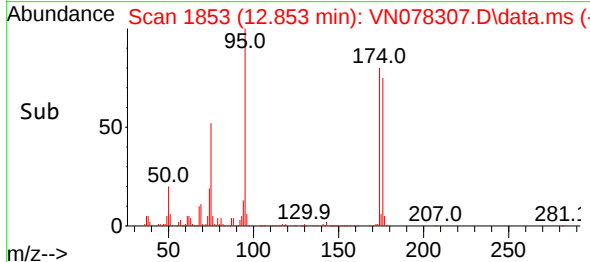
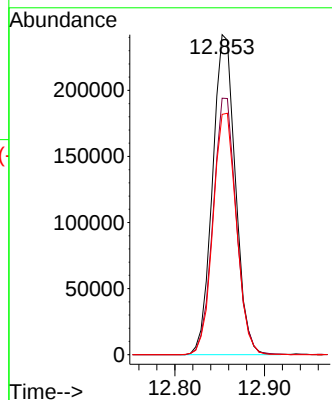
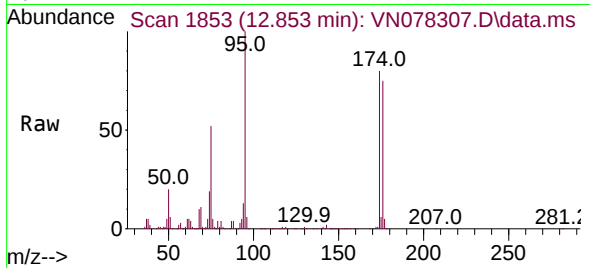




#62
4-Bromofluorobenzene
Concen: 47.285 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

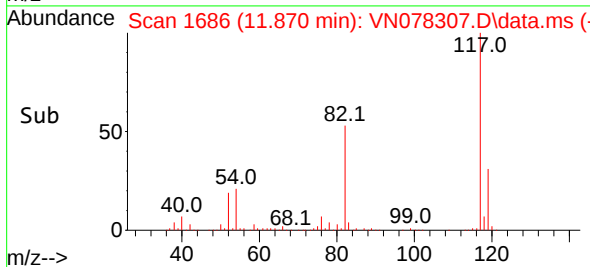
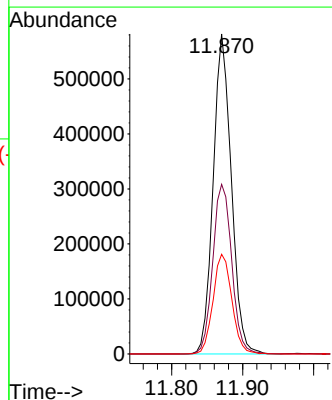
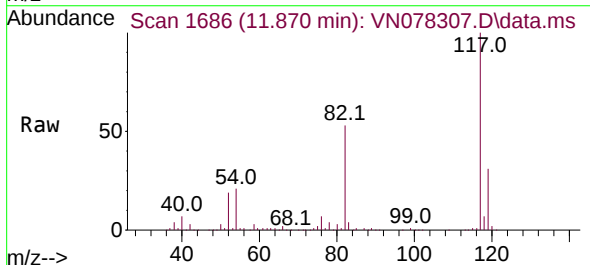
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-248-268-061923DL

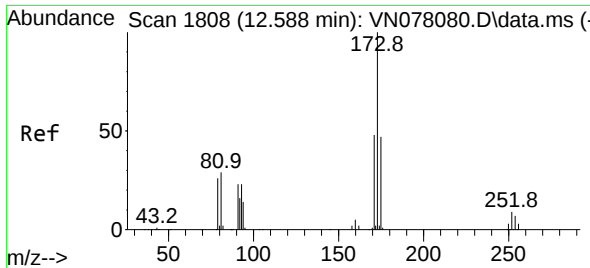
Tgt Ion: 95 Resp: 428986
Ion Ratio Lower Upper
95 100
174 80.9 0.0 143.8
176 77.1 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

Tgt Ion: 117 Resp: 1030557
Ion Ratio Lower Upper
117 100
82 53.0 44.0 66.0
119 31.2 25.6 38.4

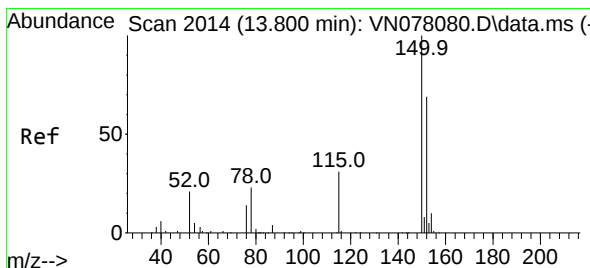
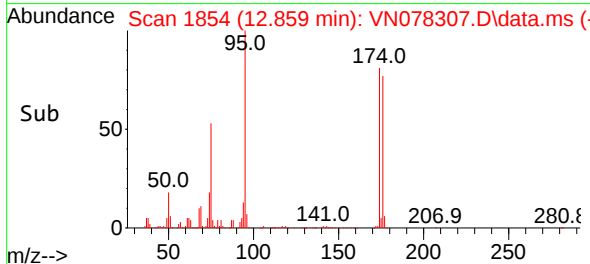
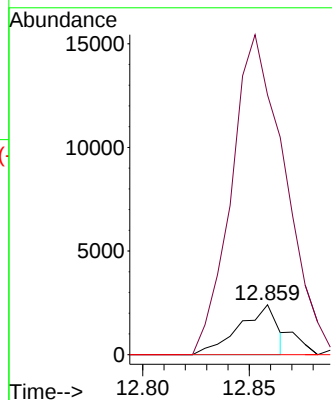
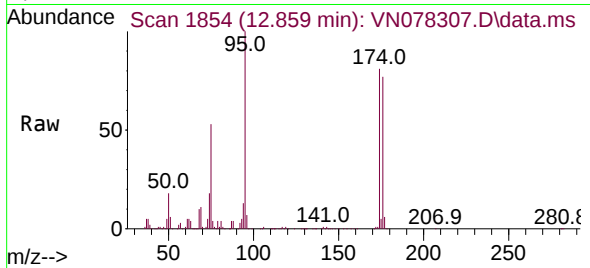




#71
Bromoform
Concen: 0.570 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.271 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

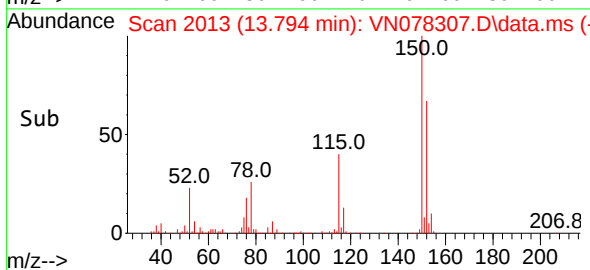
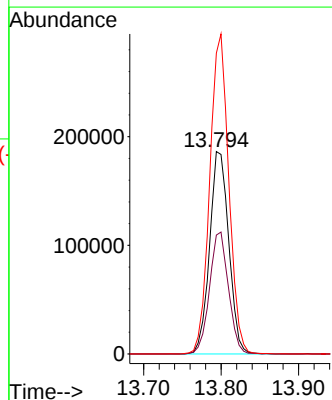
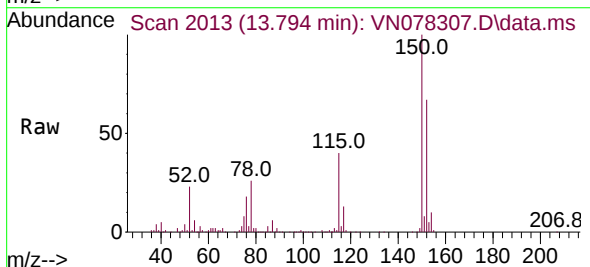
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-248-268-061923DL

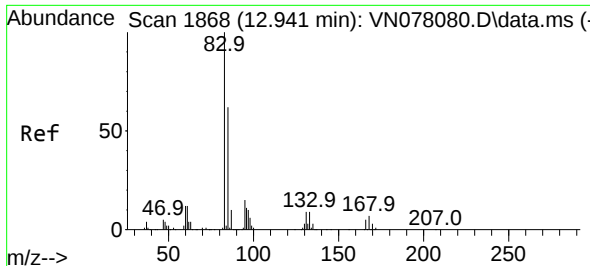
Tgt Ion:173 Resp: 2988
Ion Ratio Lower Upper
173 100
175 760.9 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.006 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

Tgt Ion:152 Resp: 320847
Ion Ratio Lower Upper
152 100
115 59.4 32.3 96.8
150 156.7 0.0 355.8

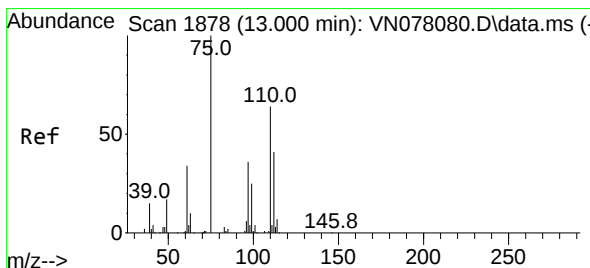
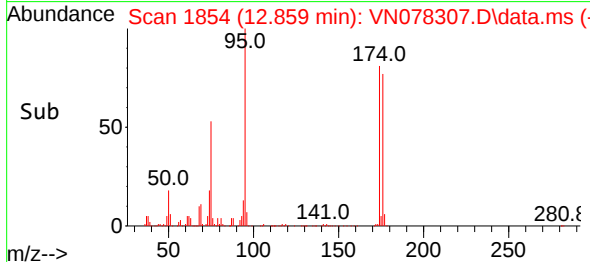
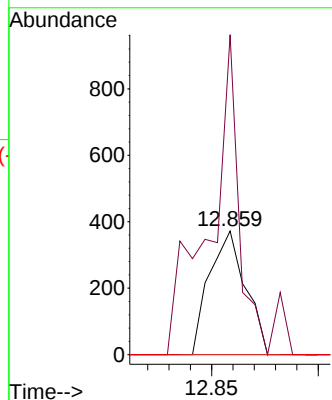
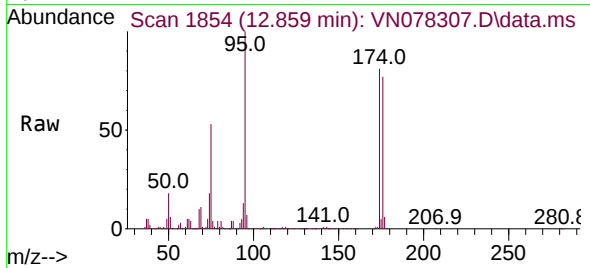




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.859 min Scan# 1854
Delta R.T. -0.082 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

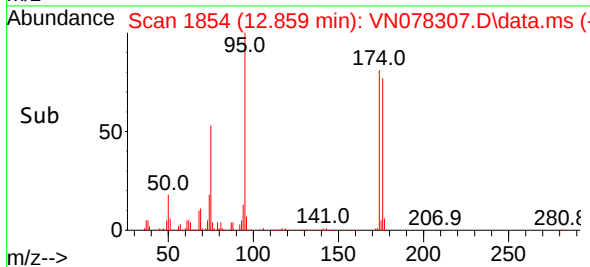
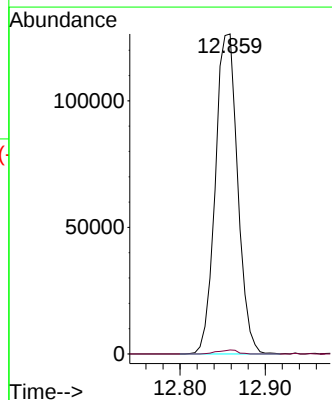
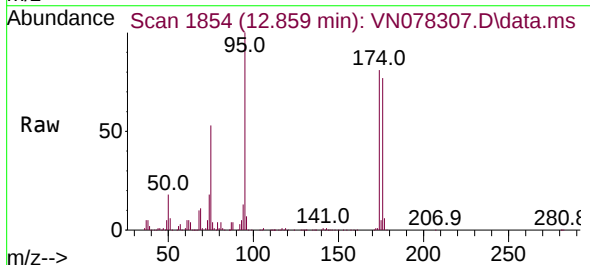
Instrument : MSVOA_N
ClientSampleId : GWOW-BR-05-248-268-061923DL

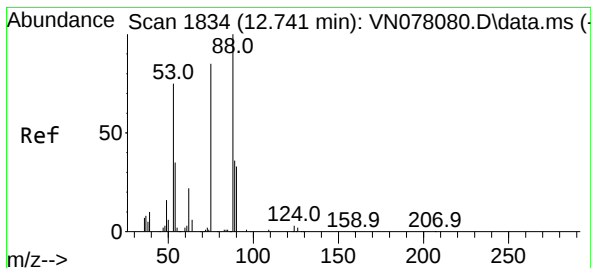
Tgt Ion: 83 Resp: 440
Ion Ratio Lower Upper
83 100
131 209.8 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 30.385 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

Tgt Ion: 75 Resp: 230471
Ion Ratio Lower Upper
75 100
77 1.1 84.5 253.5#

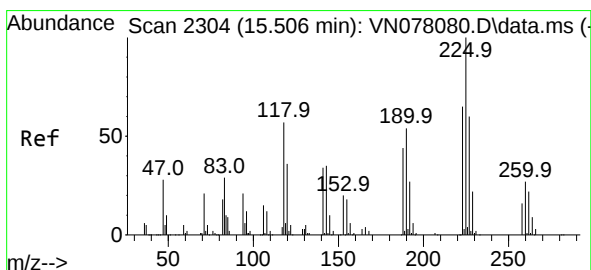
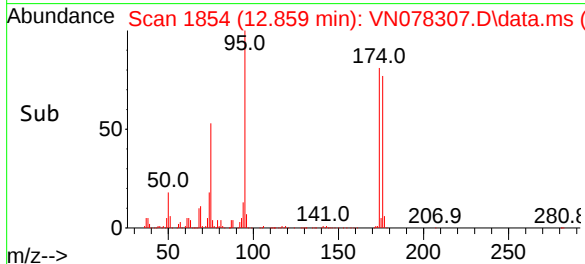
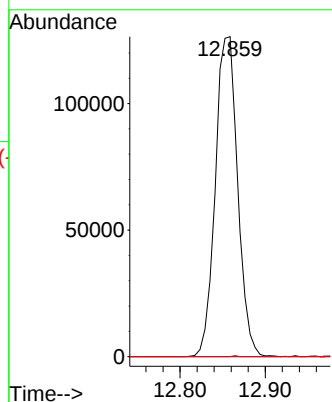
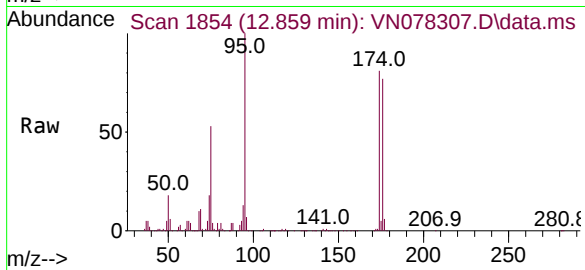




#81
trans-1,4-Dichloro-2-butene
Concen: 93.353 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-248-268-061923DL

Tgt Ion: 75 Resp: 230471
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.1 38.8 58.2#



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.500 min Scan# 2303
Delta R.T. -0.006 min
Lab File: VN078307.D
Acq: 20 Jun 2023 14:12

Tgt Ion: 225 Resp: 55
Ion Ratio Lower Upper
225 100
223 0.0 31.3 93.8#
227 0.0 31.9 95.9#

