

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061523\
 Data File : VN078227.D
 Acq On : 15 Jun 2023 14:44
 Operator : JC\MD
 Sample : 03259-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GWOW-BR-05-129-149-061423

Quant Time: Jun 16 06:07:08 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)

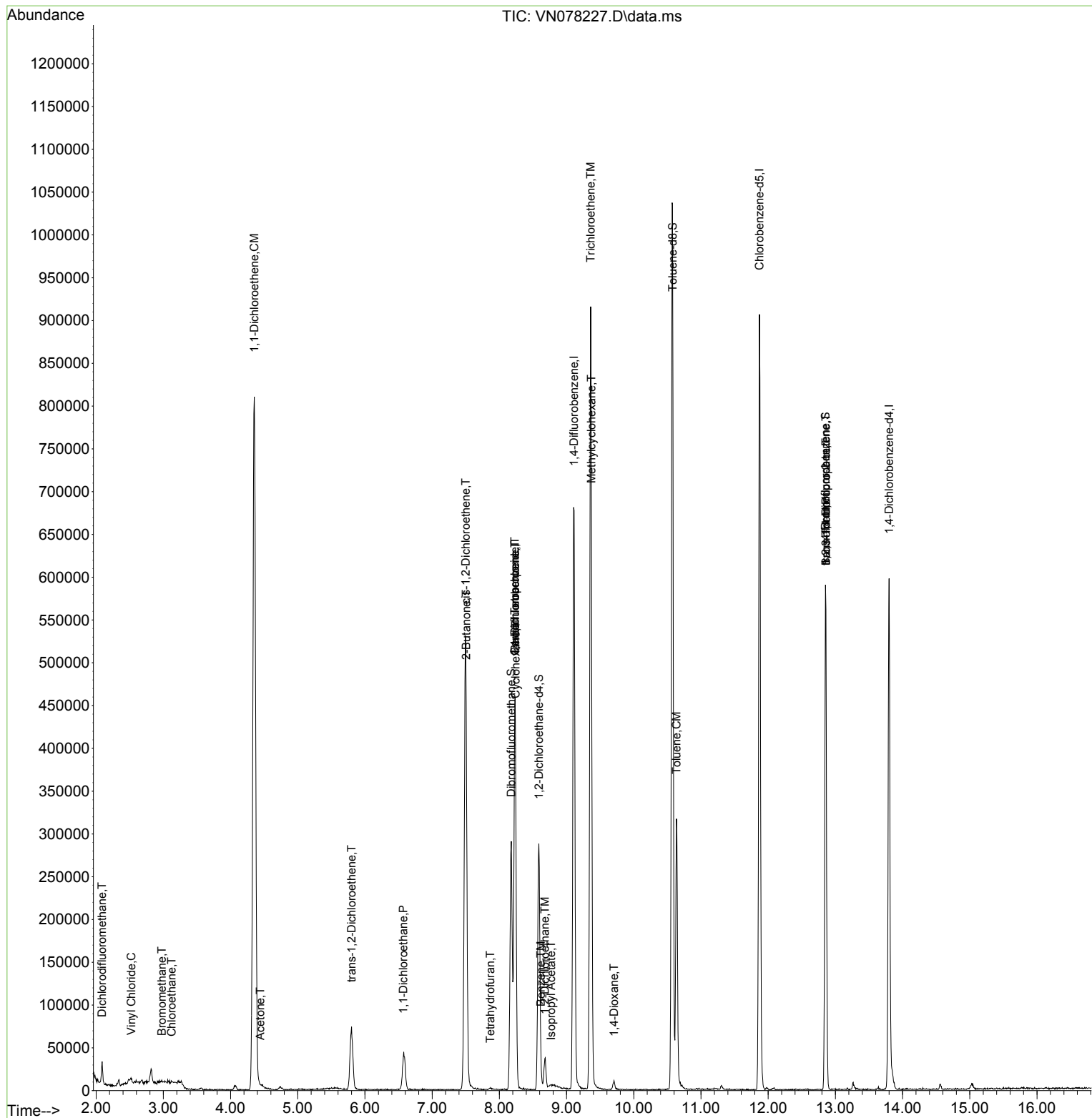
Internal Standards						
1) Pentafluorobenzene	8.235	168	336936	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	617822	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	540708	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	155939	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	239961	53.415	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 106.840%			
35) Dibromofluoromethane	8.177	113	208009	53.248	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.500%			
50) Toluene-d8	10.576	98	762054	50.603	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.200%			
62) 4-Bromofluorobenzene	12.853	95	209390	44.726	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 89.460%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.089	85	1798	0.472	ug/l #	24
3) Chloromethane	2.371	50	1289	Below Cal		97
4) Vinyl Chloride	2.524	62	4615	0.925	ug/l	95
5) Bromomethane	2.977	94	1715	0.455	ug/l #	71
6) Chloroethane	3.124	64	902	0.265	ug/l #	45
12) 1,1-Dichloroethene	4.353	96	495257	134.605	ug/l	90
16) Acetone	4.441	43	1739	1.345	ug/l #	40
21) trans-1,2-Dichloroethene	5.800	96	46047	11.603	ug/l	83
24) 1,1-Dichloroethane	6.571	63	59342	8.515	ug/l	98
25) 2-Butanone	7.506	43	2253	1.133	ug/l #	1
27) cis-1,2-Dichloroethene	7.500	96	317873	67.153	ug/l	99
29) Tetrahydrofuran	7.865	42	1461	1.099	ug/l #	38
31) Cyclohexane	8.241	56	8415	1.460	ug/l #	44
36) 1,1-Dichloropropene	8.229	75	28319	5.054	ug/l #	49
38) Carbon Tetrachloride	8.229	117	37503	6.339	ug/l #	15
39) Methylcyclohexane	9.371	83	4511	0.777	ug/l #	11
40) Benzene	8.618	78	6132	0.367	ug/l #	88
42) 1,2-Dichloroethane	8.677	62	32272	5.627	ug/l	99
43) Isopropyl Acetate	8.771	43	5579	0.666	ug/l #	49
44) Trichloroethene	9.359	130	326952	74.009	ug/l	98
49) 1,4-Dioxane	9.706	88	7073	95.792	ug/l #	77
52) Toluene	10.635	92	135529	12.832	ug/l	95
71) Bromoform	12.859	173	2067	0.752	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.941	83	128	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.859	75	114854	31.156	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.859	75	114854	95.720	ug/l #	15

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

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Response via : Initial Calibration

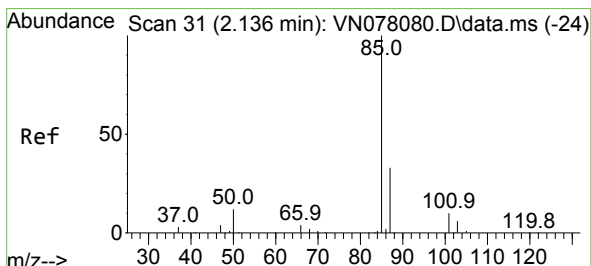
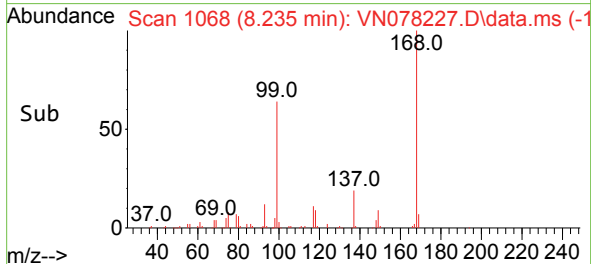
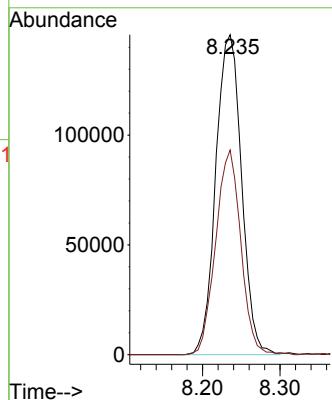
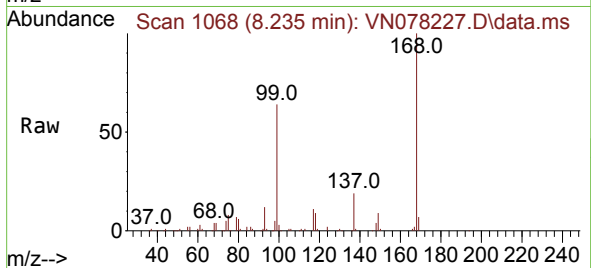




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

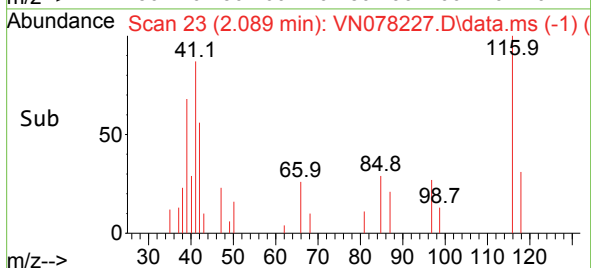
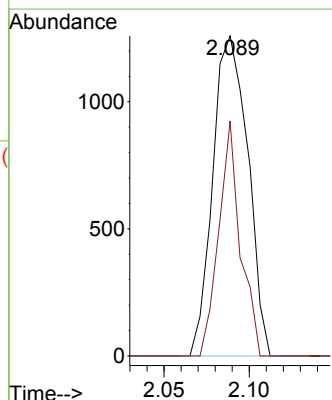
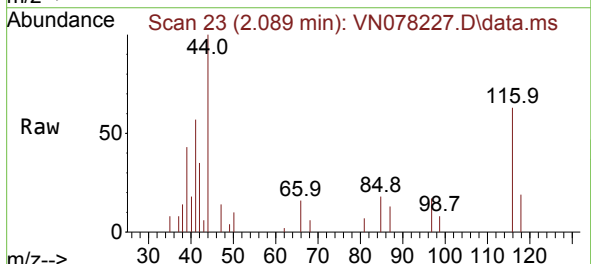
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-129-149-061423

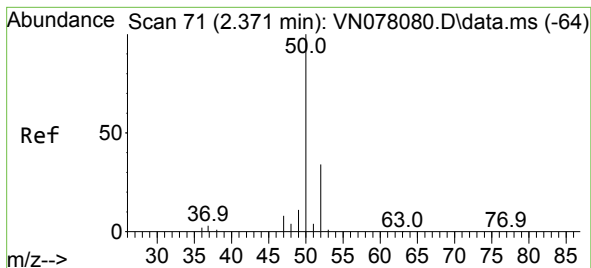
Tgt Ion:168 Resp: 336936
Ion Ratio Lower Upper
168 100
99 63.9 53.0 79.6



#2
Dichlorodifluoromethane
Concen: 0.472 ug/l
RT: 2.089 min Scan# 23
Delta R.T. -0.047 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

Tgt Ion: 85 Resp: 1798
Ion Ratio Lower Upper
85 100
87 73.5 15.8 47.4#





#3

Chloromethane

Concen: Below Cal

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078227.D

Acq: 15 Jun 2023 14:44

Instrument :

MSVOA_N

ClientSampleId :

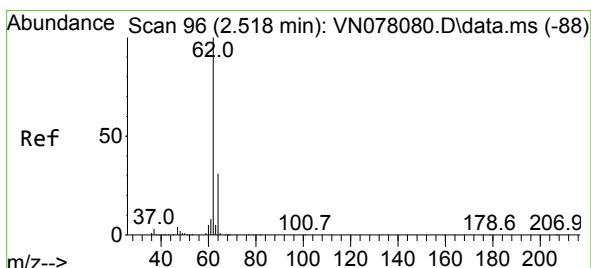
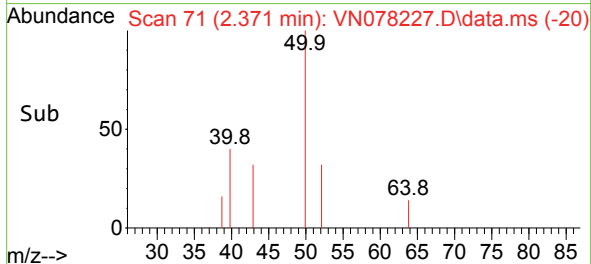
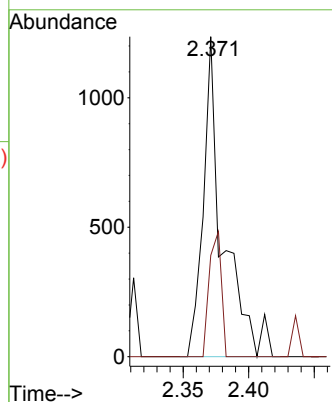
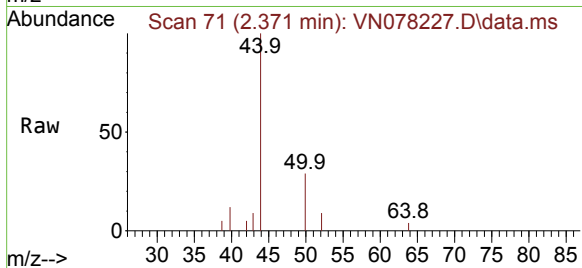
GWOW-BR-05-129-149-061423

Tgt Ion: 50 Resp: 1289

Ion Ratio Lower Upper

50 100

52 31.6 26.5 39.7



#4

Vinyl Chloride

Concen: 0.925 ug/l

RT: 2.524 min Scan# 97

Delta R.T. 0.006 min

Lab File: VN078227.D

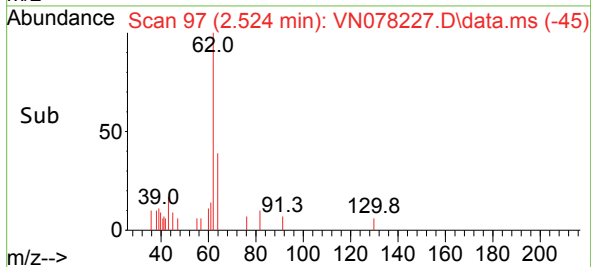
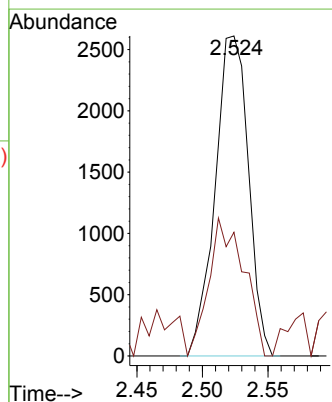
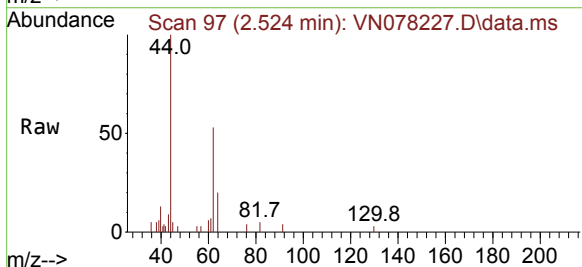
Acq: 15 Jun 2023 14:44

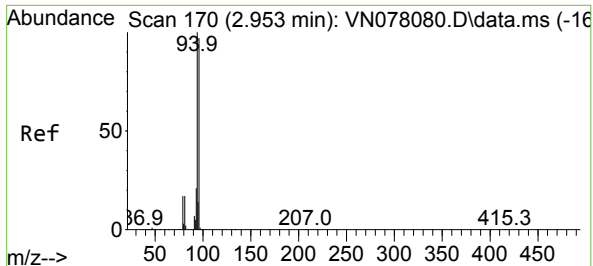
Tgt Ion: 62 Resp: 4615

Ion Ratio Lower Upper

62 100

64 30.1 26.2 39.2

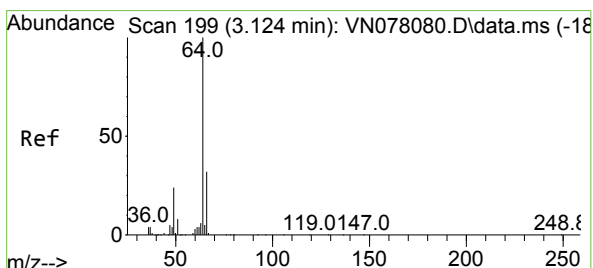
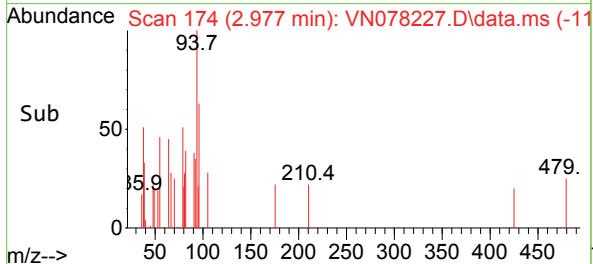
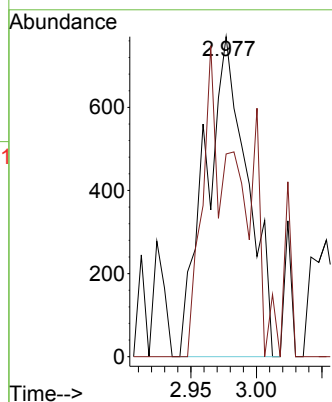
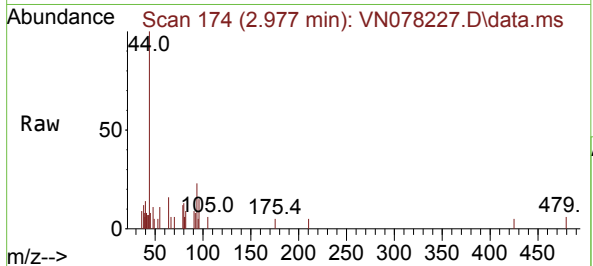




#5
Bromomethane
Concen: 0.455 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.023 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

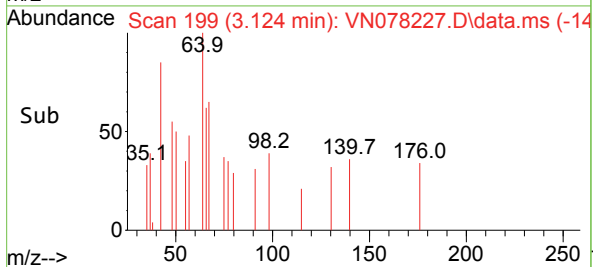
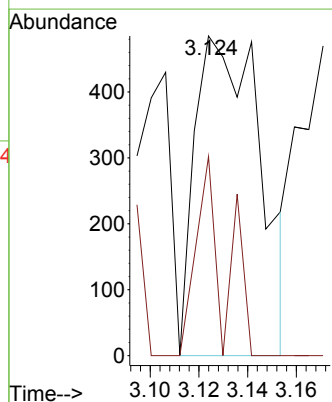
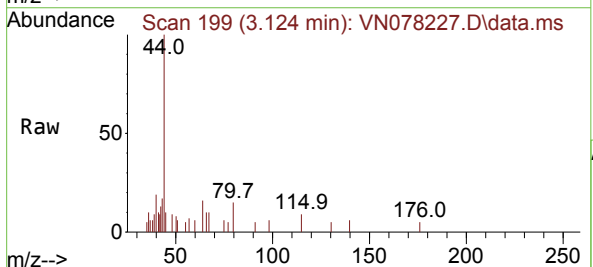
Instrument :
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GWOW-BR-05-129-149-061423

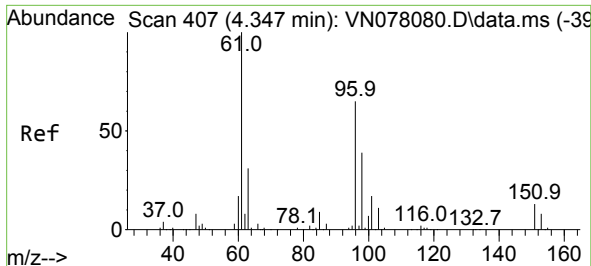
Tgt Ion: 94 Resp: 1715
Ion Ratio Lower Upper
94 100
96 63.4 73.1 109.7#



#6
Chloroethane
Concen: 0.265 ug/l
RT: 3.124 min Scan# 199
Delta R.T. -0.000 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

Tgt Ion: 64 Resp: 902
Ion Ratio Lower Upper
64 100
66 62.3 25.4 38.2#

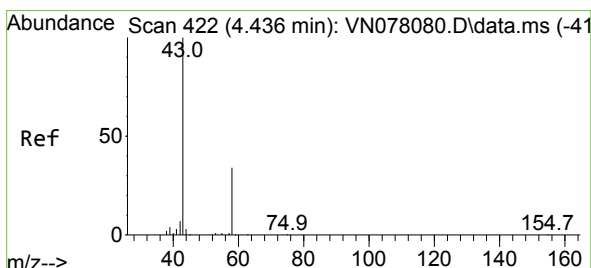
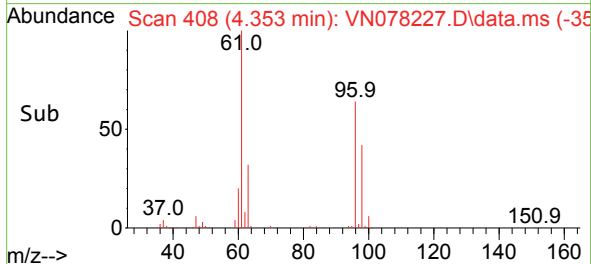
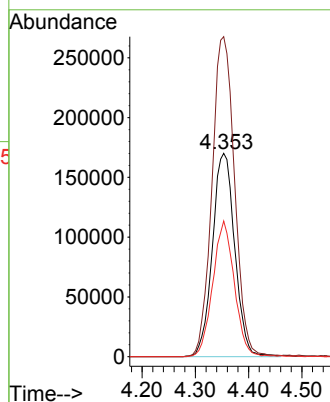
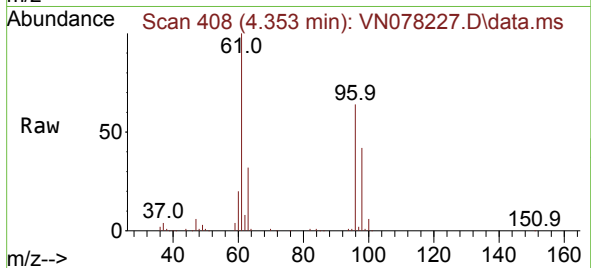




#12
1,1-Dichloroethene
Concen: 134.605 ug/l
RT: 4.353 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

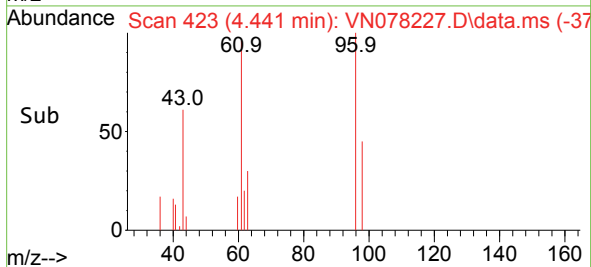
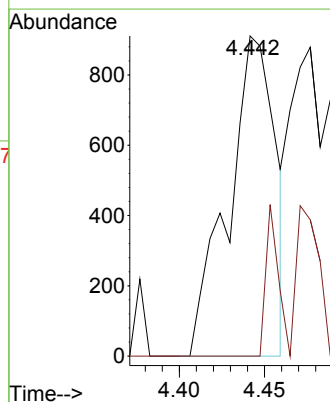
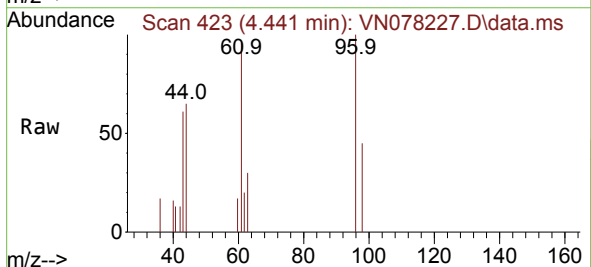
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-129-149-061423

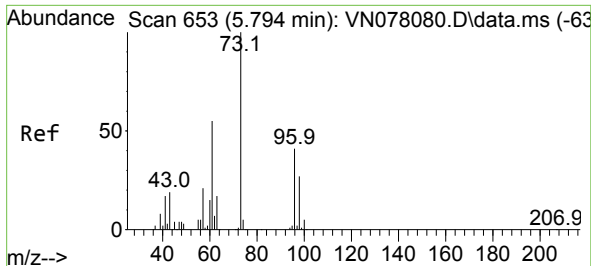
Tgt Ion: 96 Resp: 495257
Ion Ratio Lower Upper
96 100
61 157.4 112.7 169.1
98 66.7 51.2 76.8



#16
Acetone
Concen: 1.345 ug/l
RT: 4.441 min Scan# 423
Delta R.T. 0.006 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

Tgt Ion: 43 Resp: 1739
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#

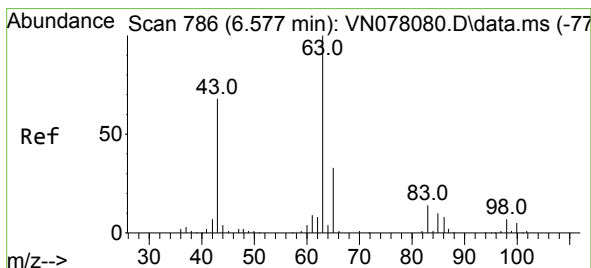
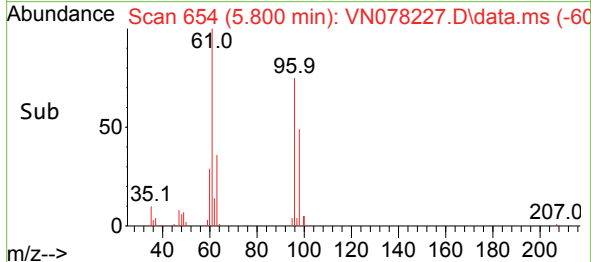
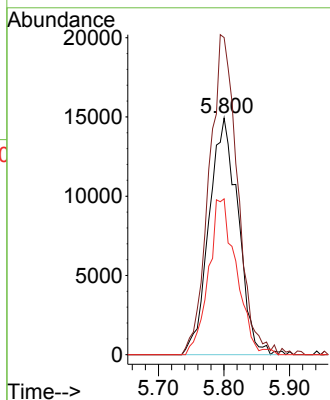
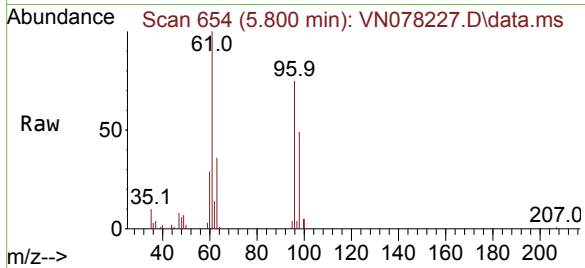




#21
trans-1,2-Dichloroethene
Concen: 11.603 ug/l
RT: 5.800 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

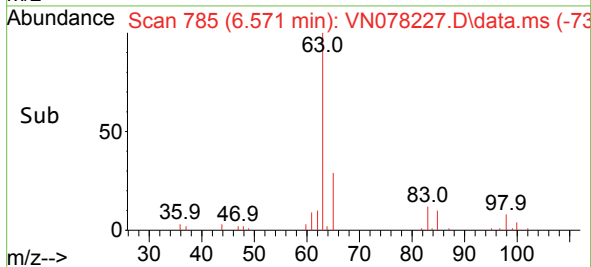
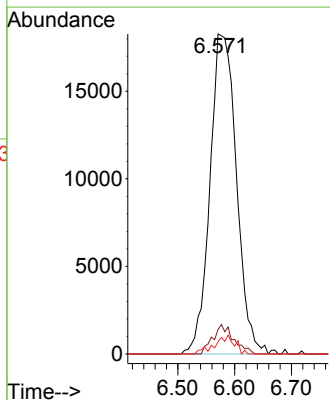
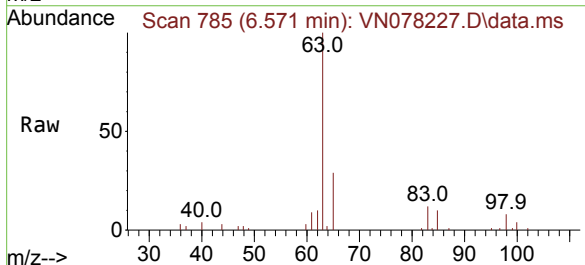
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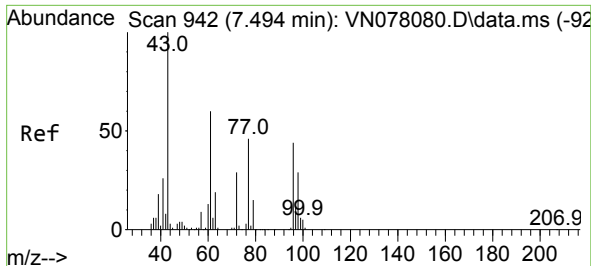
Tgt Ion: 96 Resp: 46047
Ion Ratio Lower Upper
96 100
61 134.0 90.1 135.1
98 65.8 46.4 69.6



#24
1,1-Dichloroethane
Concen: 8.515 ug/l
RT: 6.571 min Scan# 785
Delta R.T. -0.006 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

Tgt Ion: 63 Resp: 59342
Ion Ratio Lower Upper
63 100
98 7.6 3.9 11.7
100 3.8 2.5 7.4

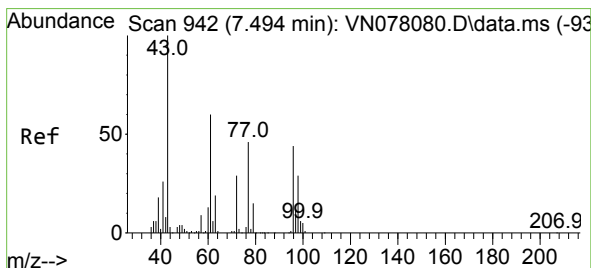
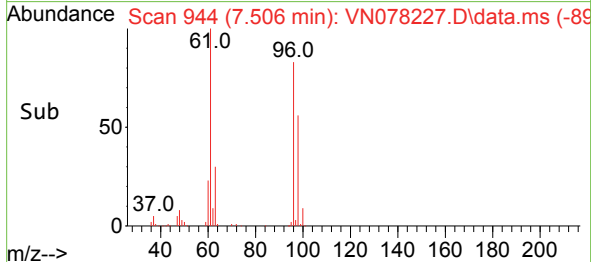
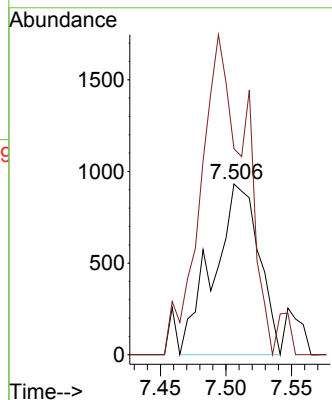
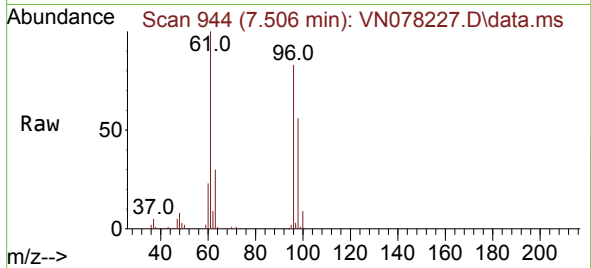




#25
2-Butanone
Concen: 1.133 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

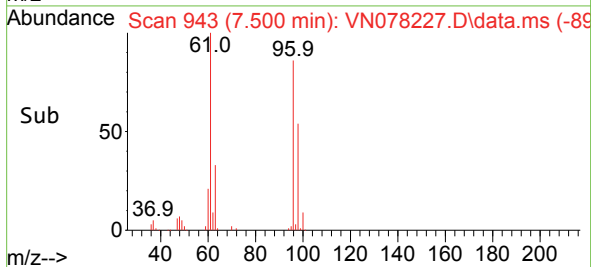
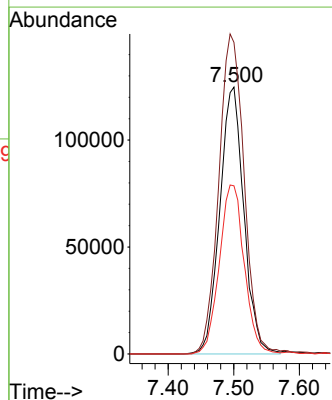
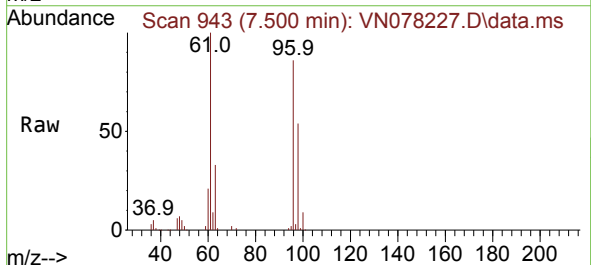
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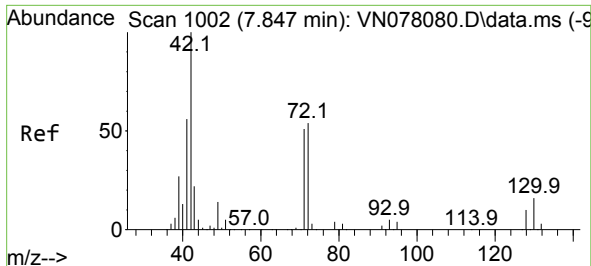
Tgt Ion: 43 Resp: 2253
Ion Ratio Lower Upper
43 100
72 101.7 30.2 45.2#



#27
cis-1,2-Dichloroethene
Concen: 67.153 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

Tgt Ion: 96 Resp: 317873
Ion Ratio Lower Upper
96 100
61 126.6 0.0 255.2
98 65.6 0.0 128.8





#29

Tetrahydrofuran

Concen: 1.099 ug/l

RT: 7.865 min Scan# 1005

Delta R.T. 0.018 min

Lab File: VN078227.D

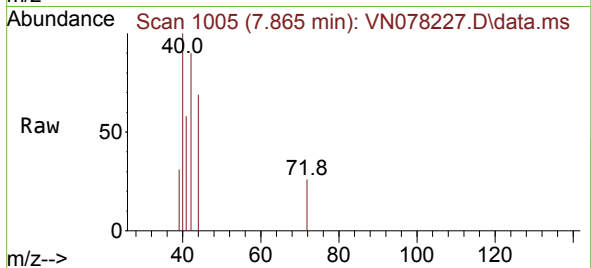
Acq: 15 Jun 2023 14:44

Instrument :

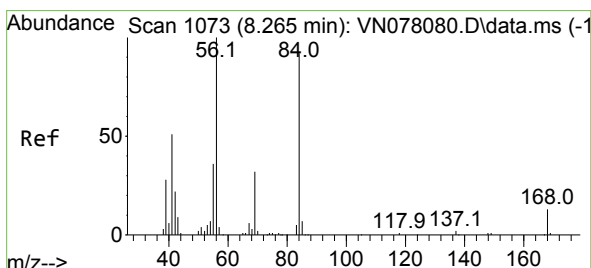
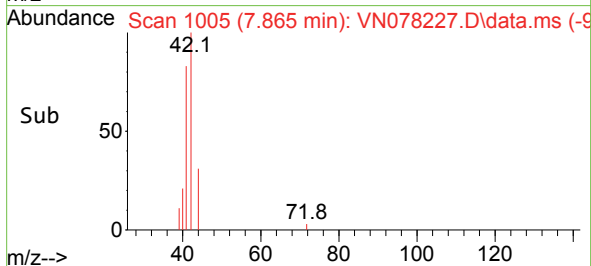
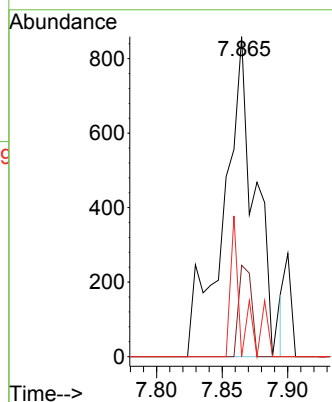
MSVOA_N

ClientSampleId :

GWOW-BR-05-129-149-061423



Tgt Ion:	42	Resp:	1461
Ion	Ratio	Lower	Upper
42	100		
72	11.3	49.8	74.6#
71	16.4	47.4	71.2#



#31

Cyclohexane

Concen: 1.460 ug/l

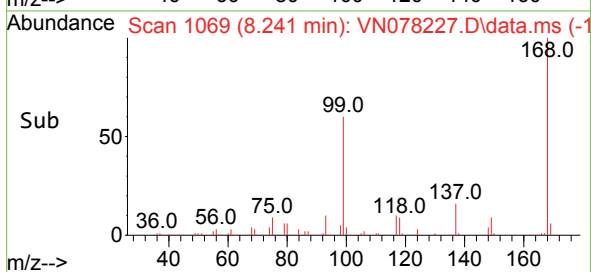
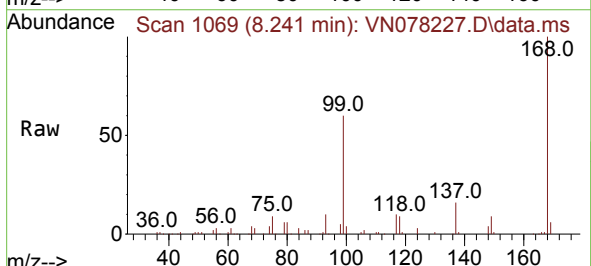
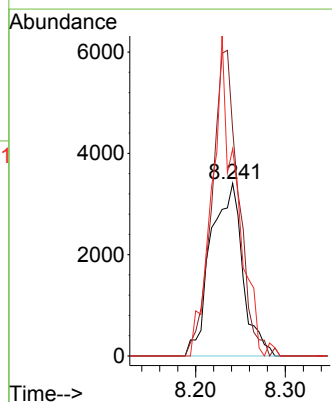
RT: 8.241 min Scan# 1069

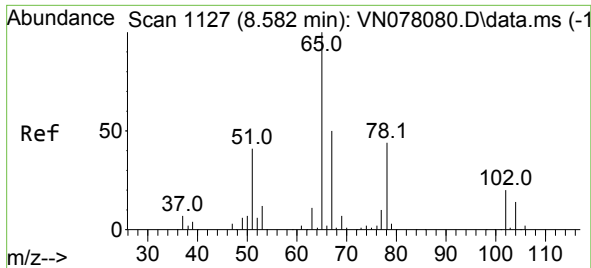
Delta R.T. -0.024 min

Lab File: VN078227.D

Acq: 15 Jun 2023 14:44

Tgt Ion:	56	Resp:	8415
Ion	Ratio	Lower	Upper
56	100		
69	130.9	26.8	40.2#
84	120.1	81.8	122.6





#33

1,2-Dichloroethane-d4

Concen: 53.415 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078227.D

Acq: 15 Jun 2023 14:44

Instrument :

MSVOA_N

ClientSampleId :

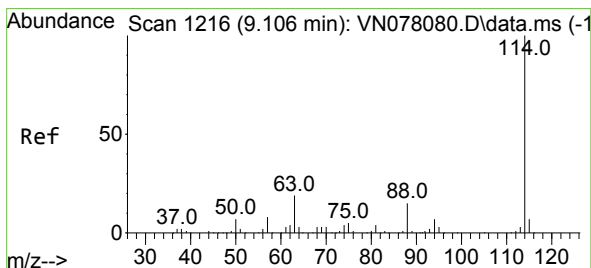
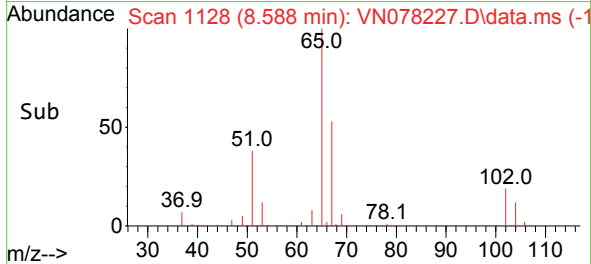
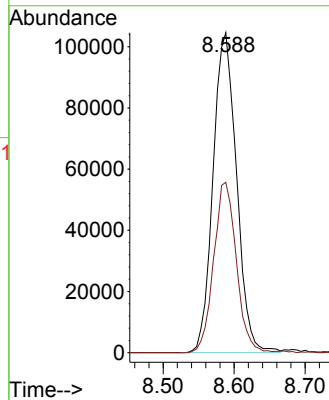
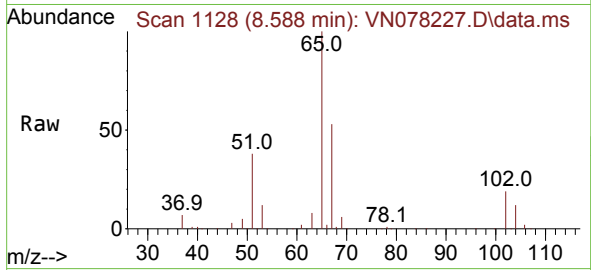
GWOW-BR-05-129-149-061423

Tgt Ion: 65 Resp: 239961

Ion Ratio Lower Upper

65 100

67 51.3 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078227.D

Acq: 15 Jun 2023 14:44

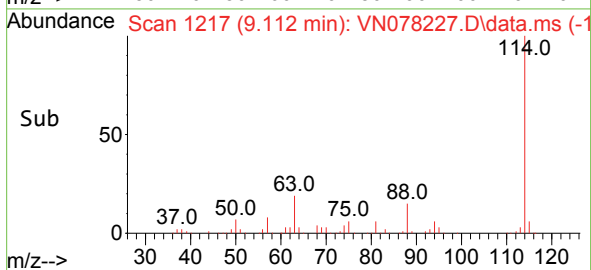
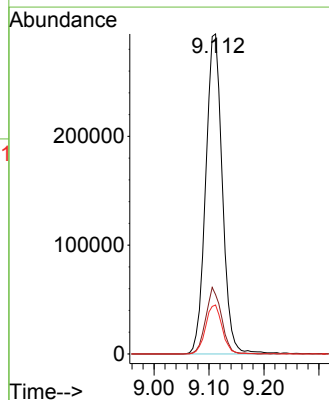
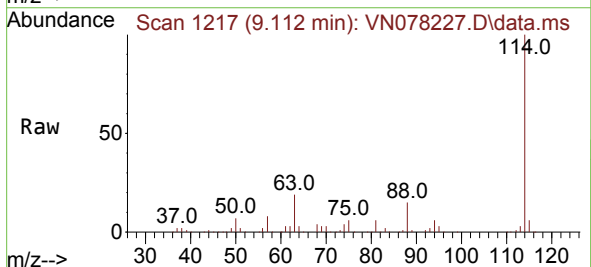
Tgt Ion: 114 Resp: 617822

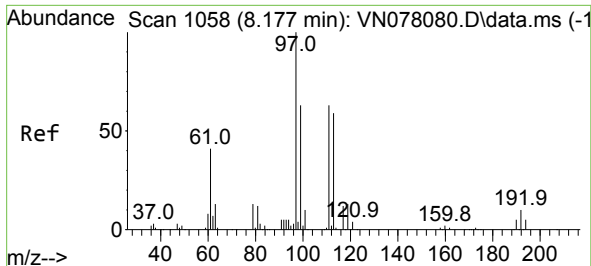
Ion Ratio Lower Upper

114 100

63 18.6 0.0 36.4

88 15.3 0.0 30.6



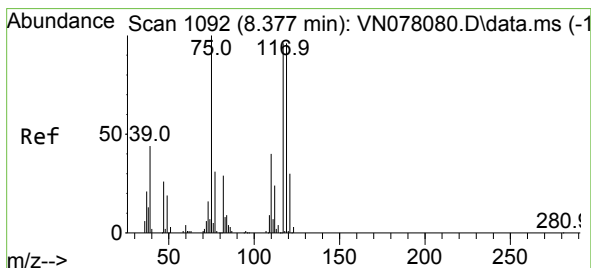
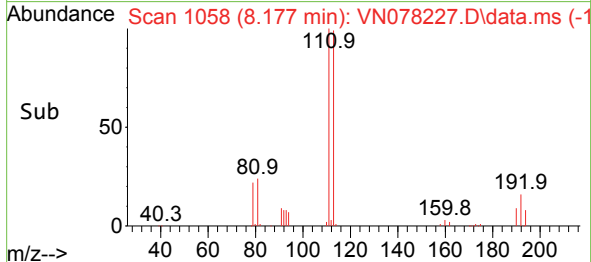
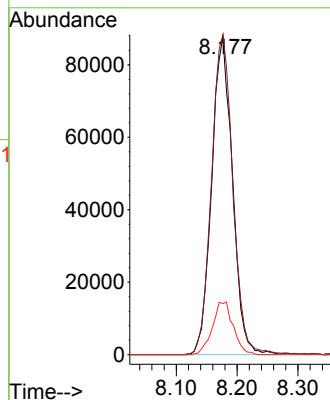
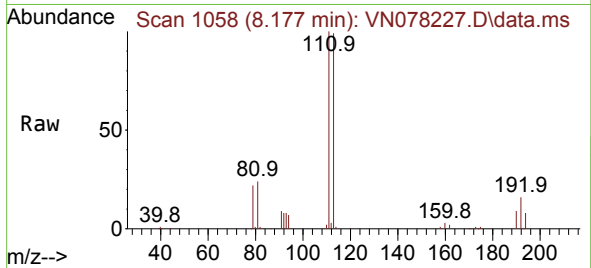


#35
 Dibromofluoromethane
 Concen: 53.248 ug/l
 RT: 8.177 min Scan# 1058
 Delta R.T. -0.000 min
 Lab File: VN078227.D
 Acq: 15 Jun 2023 14:44

Instrument : MSVOA_N
 ClientSampleId : GWOW-BR-05-129-149-061423

Tgt Ion:113 Resp: 208009

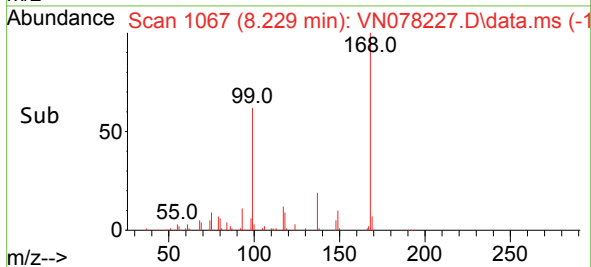
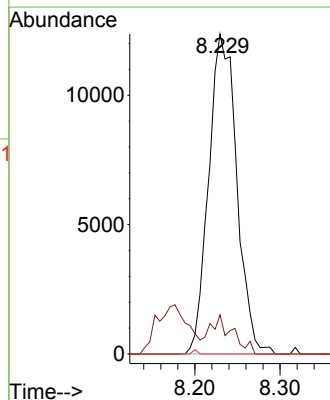
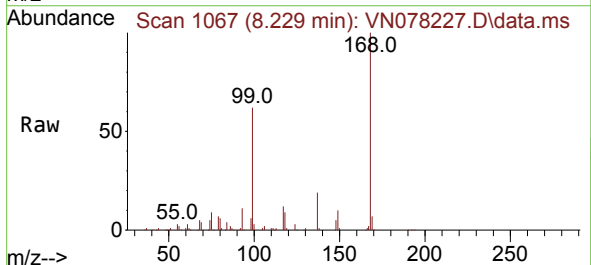
Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.6	123.8
192	16.7	12.7	19.1

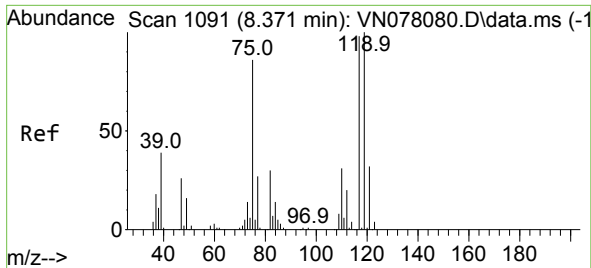


#36
 1,1-Dichloropropene
 Concen: 5.054 ug/l
 RT: 8.229 min Scan# 1067
 Delta R.T. -0.147 min
 Lab File: VN078227.D
 Acq: 15 Jun 2023 14:44

Tgt Ion: 75 Resp: 28319

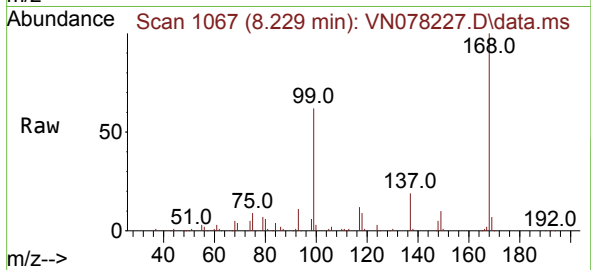
Ion	Ratio	Lower	Upper
75	100		
110	10.0	19.1	57.3#
77	0.0	25.0	37.4#



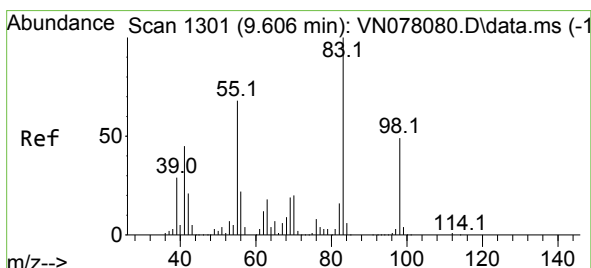
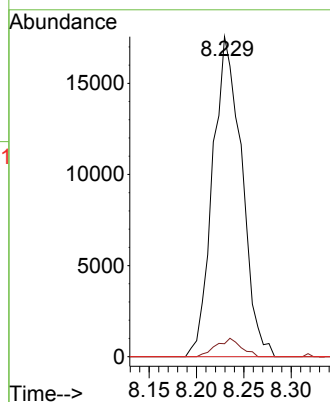
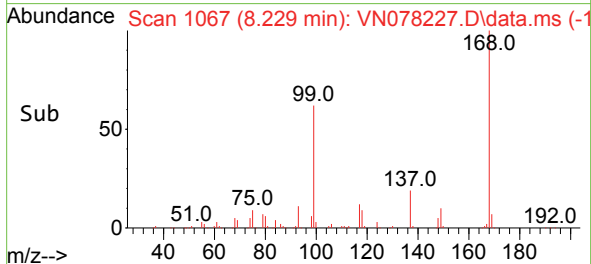


#38
Carbon Tetrachloride
Concen: 6.339 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

Instrument : MSVOA_N
ClientSampleId : GWOW-BR-05-129-149-061423

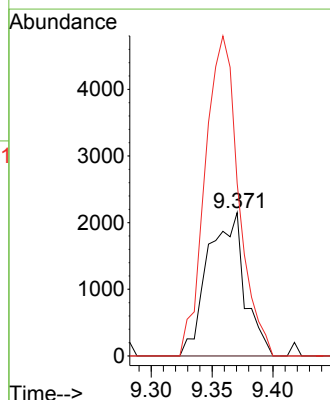
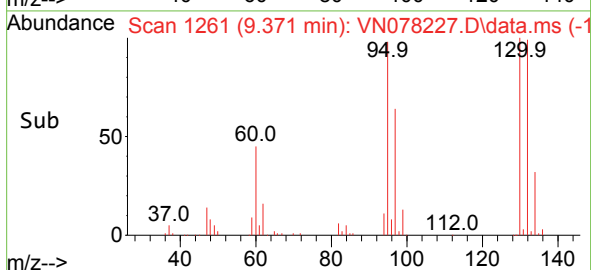
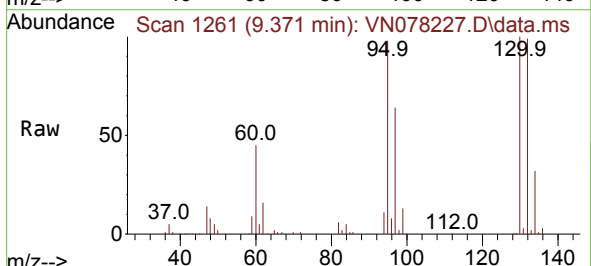


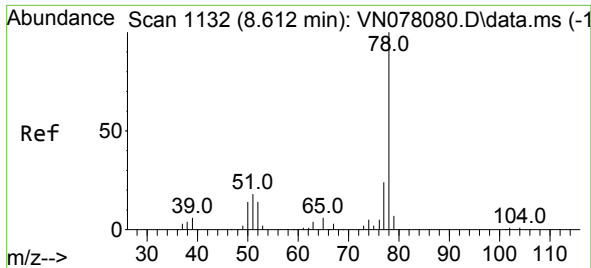
Tgt Ion:117 Resp: 37503
Ion Ratio Lower Upper
117 100
119 4.0 77.3 115.9#
121 0.0 23.3 34.9#



#39
Methylcyclohexane
Concen: 0.777 ug/l
RT: 9.371 min Scan# 1261
Delta R.T. -0.235 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

Tgt Ion: 83 Resp: 4511
Ion Ratio Lower Upper
83 100
55 0.0 49.1 73.7#
98 120.5 40.6 61.0#

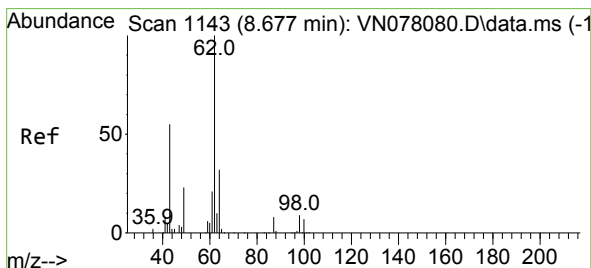
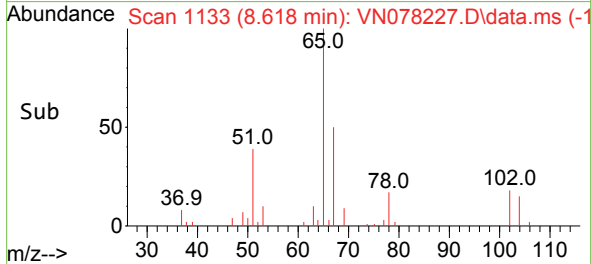
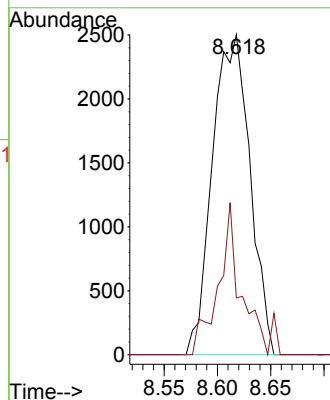
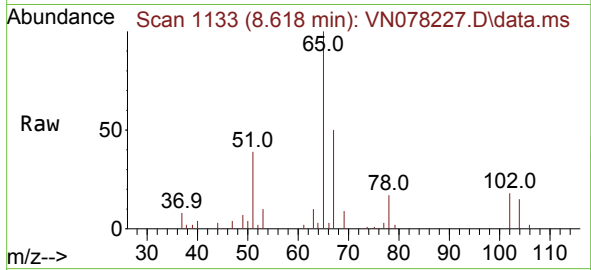




#40
Benzene
Concen: 0.367 ug/l
RT: 8.618 min Scan# 1132
Delta R.T. 0.006 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

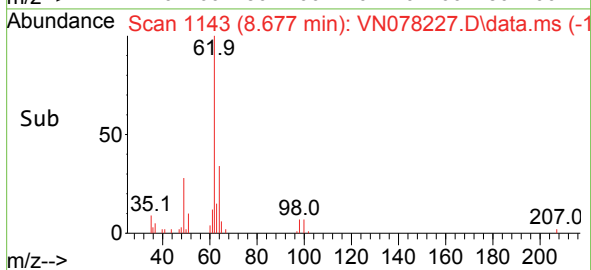
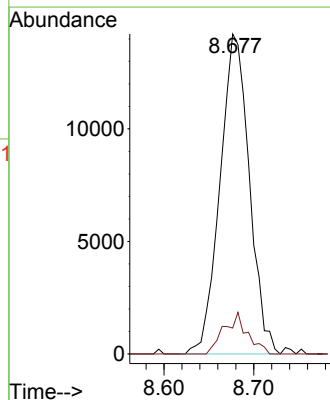
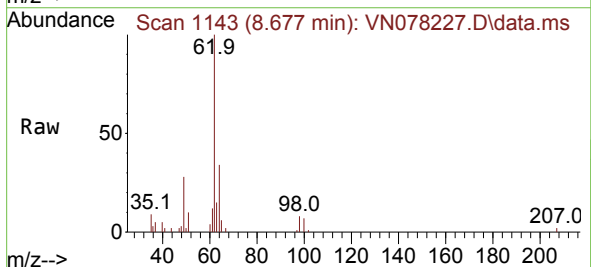
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-129-149-061423

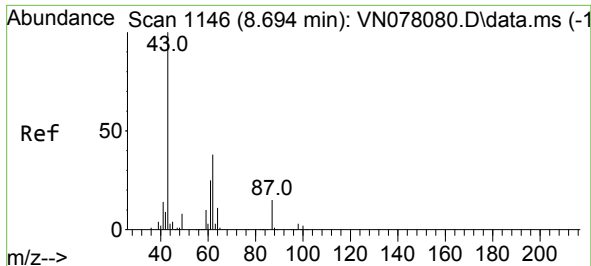
Tgt Ion: 78 Resp: 6132
Ion Ratio Lower Upper
78 100
77 17.7 19.0 28.6#



#42
1,2-Dichloroethane
Concen: 5.627 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

Tgt Ion: 62 Resp: 32272
Ion Ratio Lower Upper
62 100
98 10.3 0.0 19.8

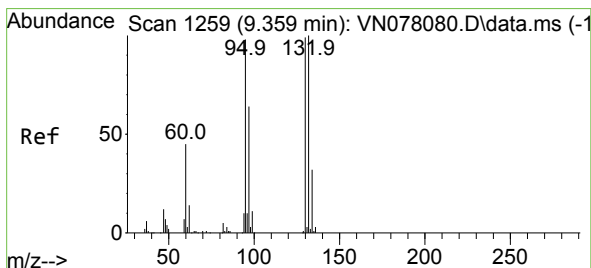
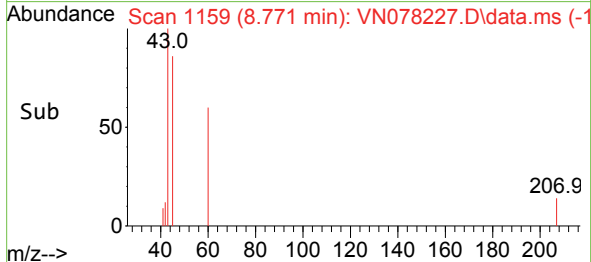
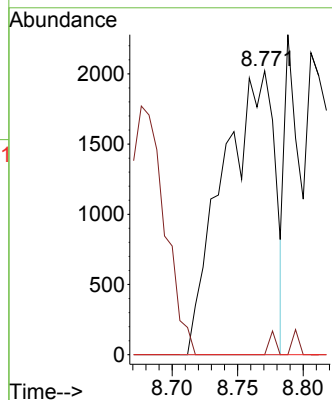
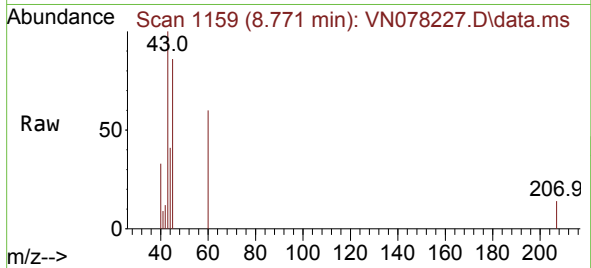




#43
Isopropyl Acetate
Concen: 0.666 ug/l
RT: 8.771 min Scan# 1159
Delta R.T. 0.076 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

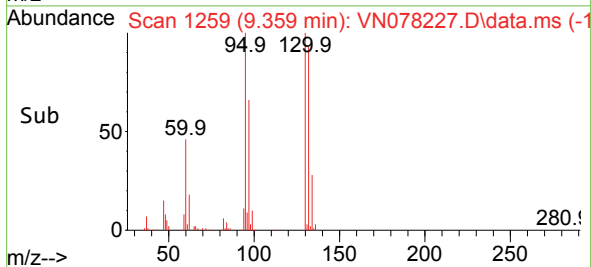
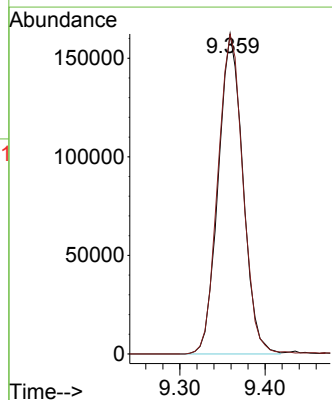
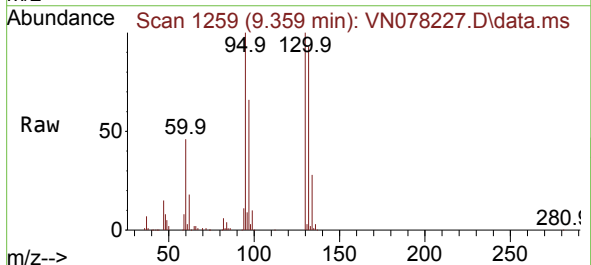
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-129-149-061423

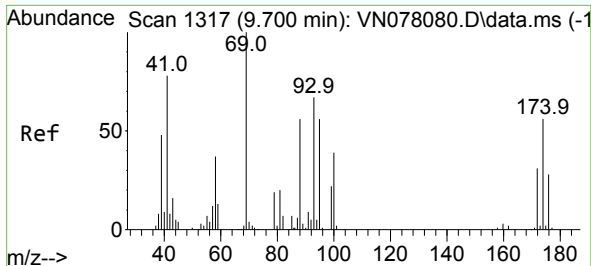
Tgt Ion: 43 Resp: 5579
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#44
Trichloroethene
Concen: 74.009 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN078227.D
Acq: 15 Jun 2023 14:44

Tgt Ion:130 Resp: 326952
Ion Ratio Lower Upper
130 100
95 99.8 0.0 204.6





#49

1,4-Dioxane

Concen: 95.792 ug/l

RT: 9.706 min Scan# 1317

Delta R.T. 0.006 min

Lab File: VN078227.D

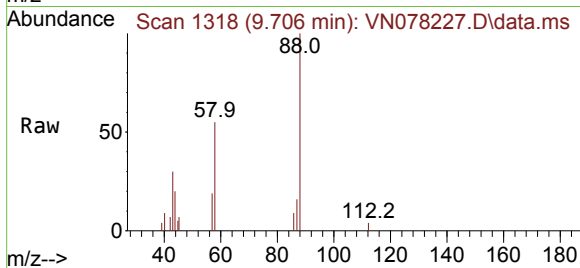
Acq: 15 Jun 2023 14:44

Instrument :

MSVOA_N

ClientSampleId :

GWOW-BR-05-129-149-061423



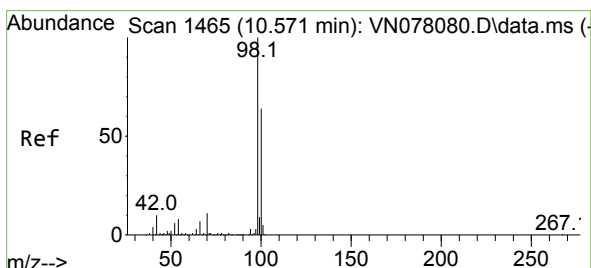
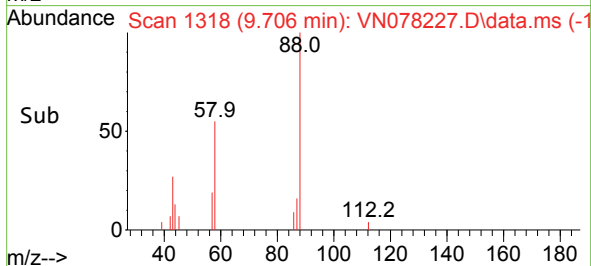
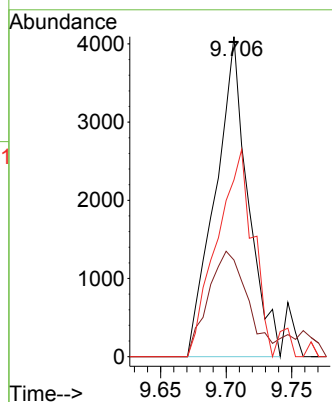
Tgt Ion: 88 Resp: 7073

Ion Ratio Lower Upper

88 100

43 39.8 17.0 25.6#

58 71.8 47.0 70.4#



#50

Toluene-d8

Concen: 50.603 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. 0.006 min

Lab File: VN078227.D

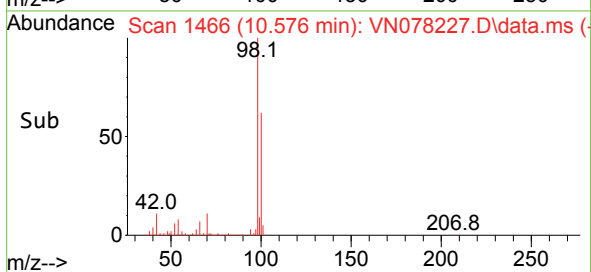
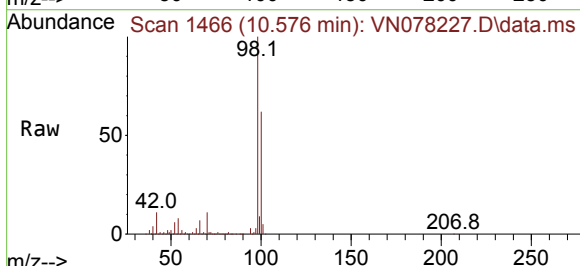
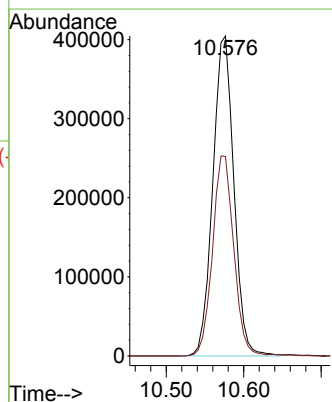
Acq: 15 Jun 2023 14:44

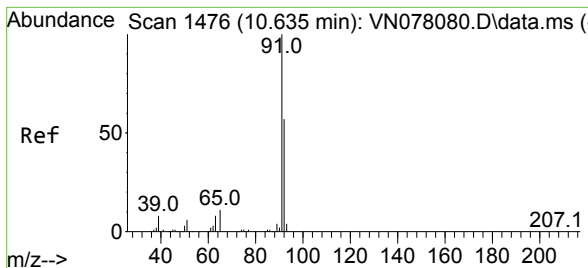
Tgt Ion: 98 Resp: 762054

Ion Ratio Lower Upper

98 100

100 63.4 52.0 78.0





#52

Toluene

Concen: 12.832 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. -0.000 min

Lab File: VN078227.D

Acq: 15 Jun 2023 14:44

Instrument :

MSVOA_N

ClientSampleId :

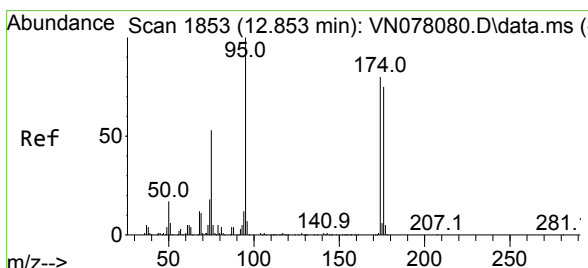
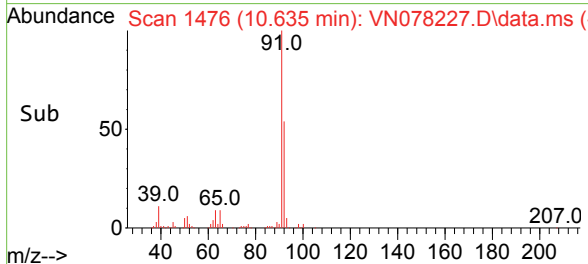
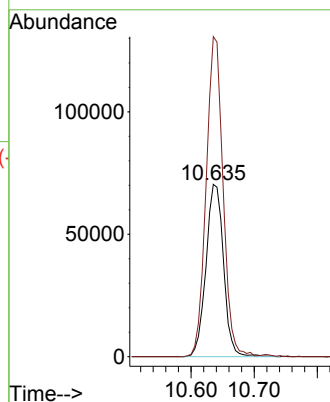
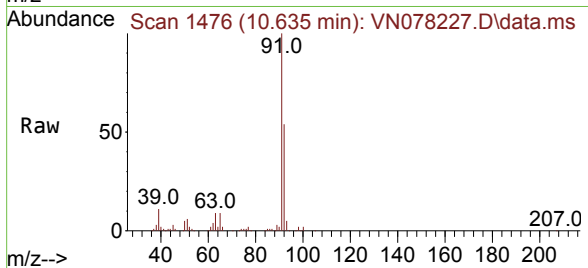
GWOW-BR-05-129-149-061423

Tgt Ion: 92 Resp: 135529

Ion Ratio Lower Upper

92 100

91 179.0 137.4 206.0



#62

4-Bromofluorobenzene

Concen: 44.726 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.000 min

Lab File: VN078227.D

Acq: 15 Jun 2023 14:44

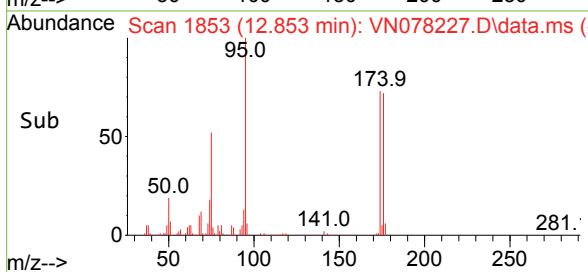
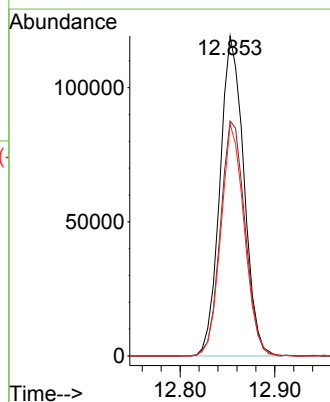
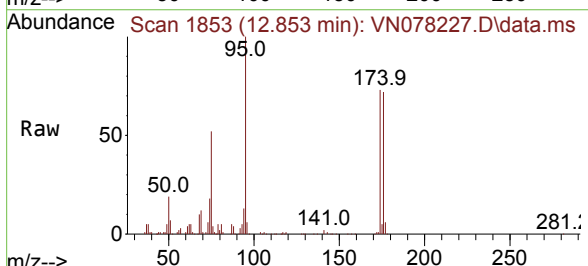
Tgt Ion: 95 Resp: 209390

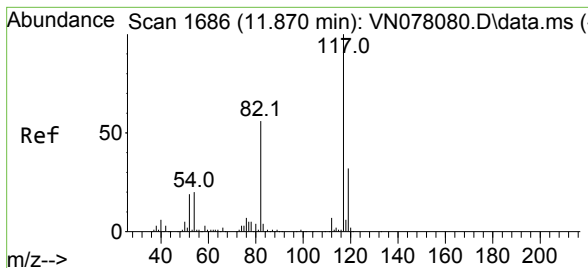
Ion Ratio Lower Upper

95 100

174 75.6 0.0 143.8

176 70.9 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.870 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN078227.D

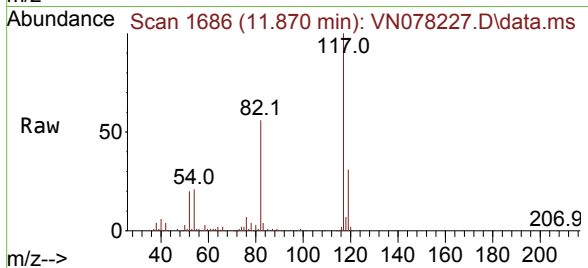
Acq: 15 Jun 2023 14:44

Instrument :

MSVOA_N

ClientSampleId :

GWOW-BR-05-129-149-061423



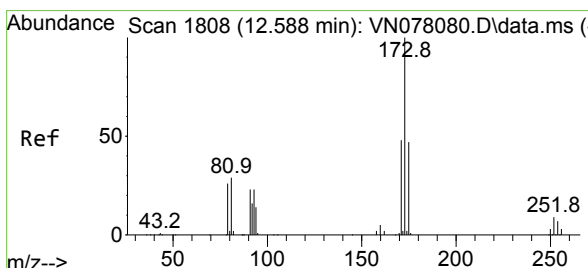
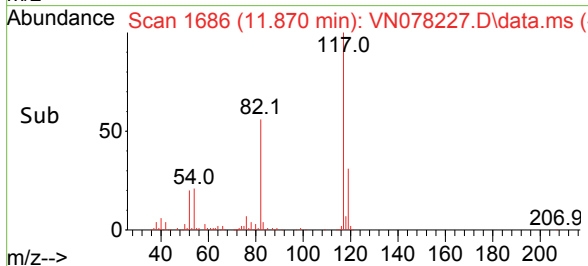
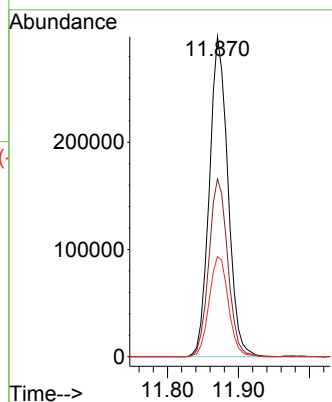
Tgt Ion:117 Resp: 540708

Ion Ratio Lower Upper

117 100

82 55.6 44.0 66.0

119 31.3 25.6 38.4



#71

Bromoform

Concen: 0.752 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.271 min

Lab File: VN078227.D

Acq: 15 Jun 2023 14:44

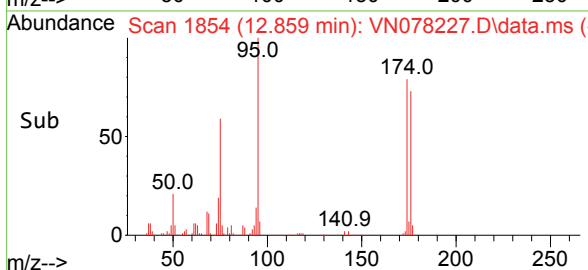
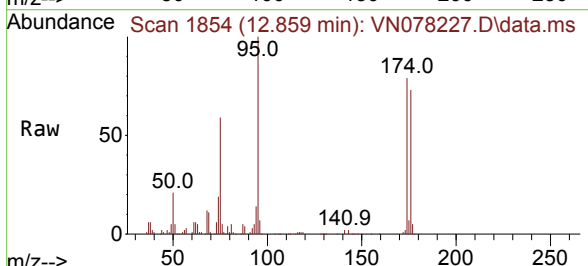
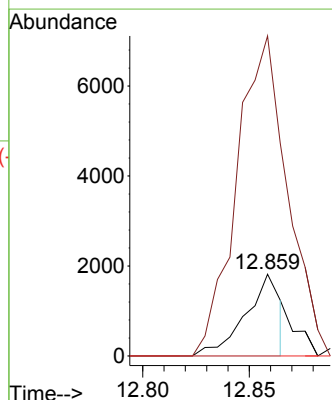
Tgt Ion:173 Resp: 2067

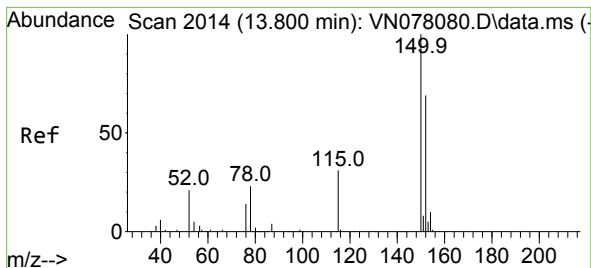
Ion Ratio Lower Upper

173 100

175 477.5 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: VN078227.D

Acq: 15 Jun 2023 14:44

Instrument :

MSVOA_N

ClientSampleId :

GWOW-BR-05-129-149-061423

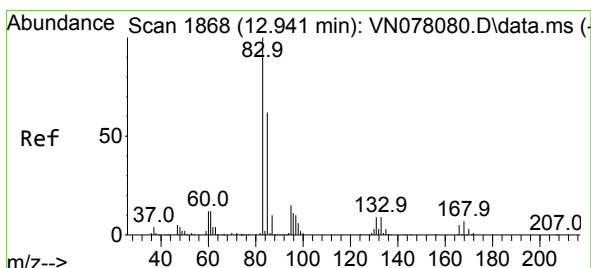
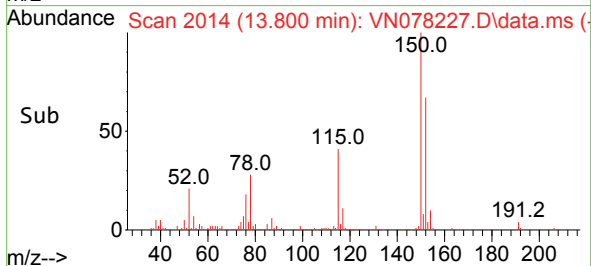
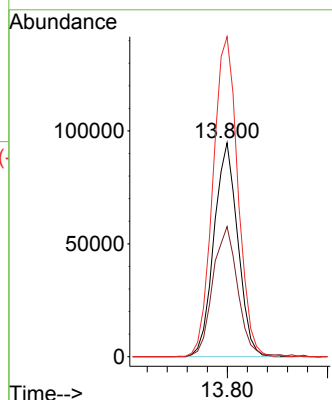
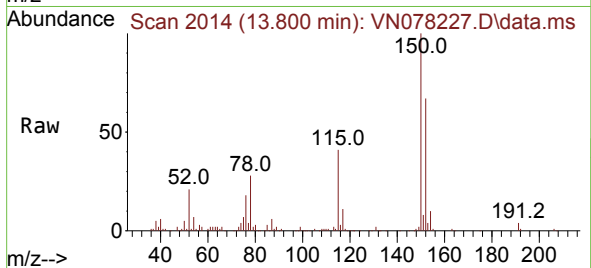
Tgt Ion:152 Resp: 155939

Ion Ratio Lower Upper

152 100

115 64.2 32.3 96.8

150 156.6 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: VN078227.D

Acq: 15 Jun 2023 14:44

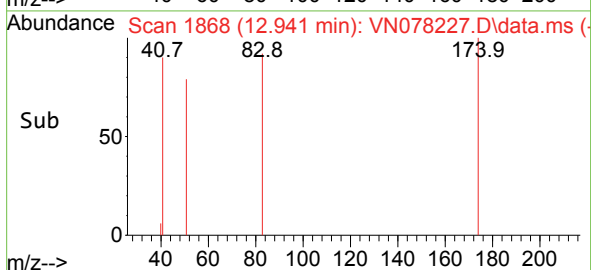
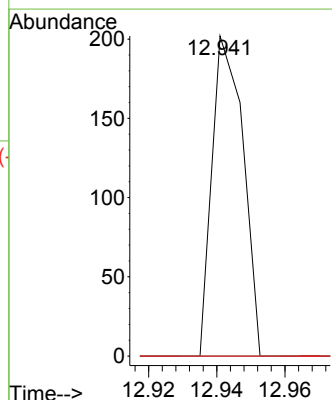
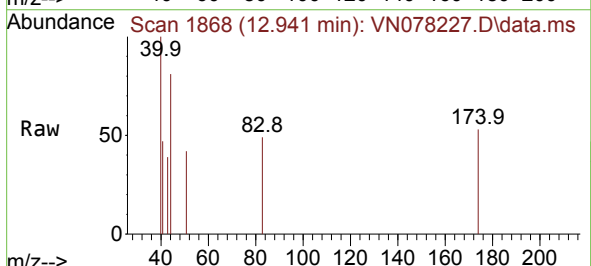
Tgt Ion: 83 Resp: 128

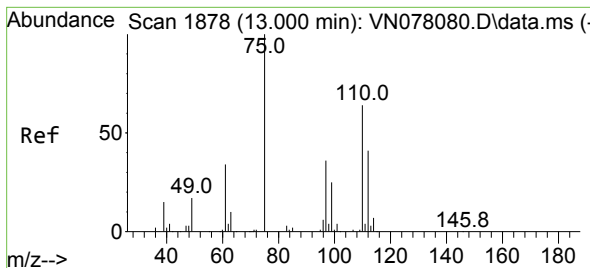
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 0.0 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 31.156 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. -0.141 min

Lab File: VN078227.D

Acq: 15 Jun 2023 14:44

Instrument :

MSVOA_N

ClientSampleId :

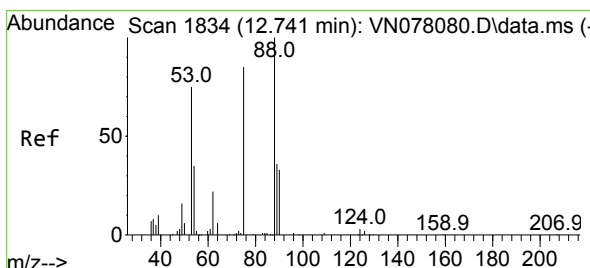
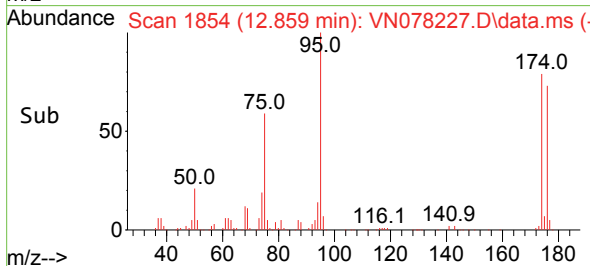
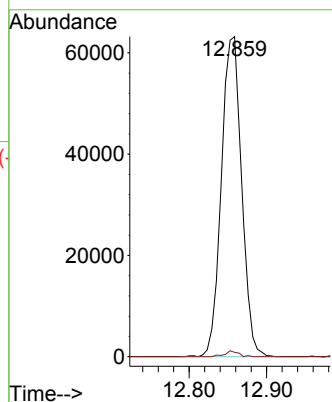
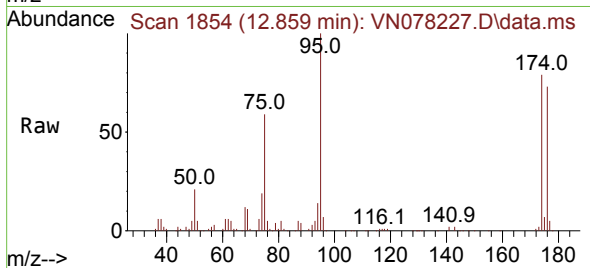
GWOW-BR-05-129-149-061423

Tgt Ion: 75 Resp: 114854

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 95.720 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.118 min

Lab File: VN078227.D

Acq: 15 Jun 2023 14:44

Tgt Ion: 75 Resp: 114854

Ion Ratio Lower Upper

75 100

53 0.1 67.4 101.2#

89 0.1 38.8 58.2#

