

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061423\
 Data File : VN078199.D
 Acq On : 14 Jun 2023 12:32
 Operator : JC\MD
 Sample : 03225-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GWOW-BR-05-84-104-061323

Quant Time: Jun 15 02:42:08 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

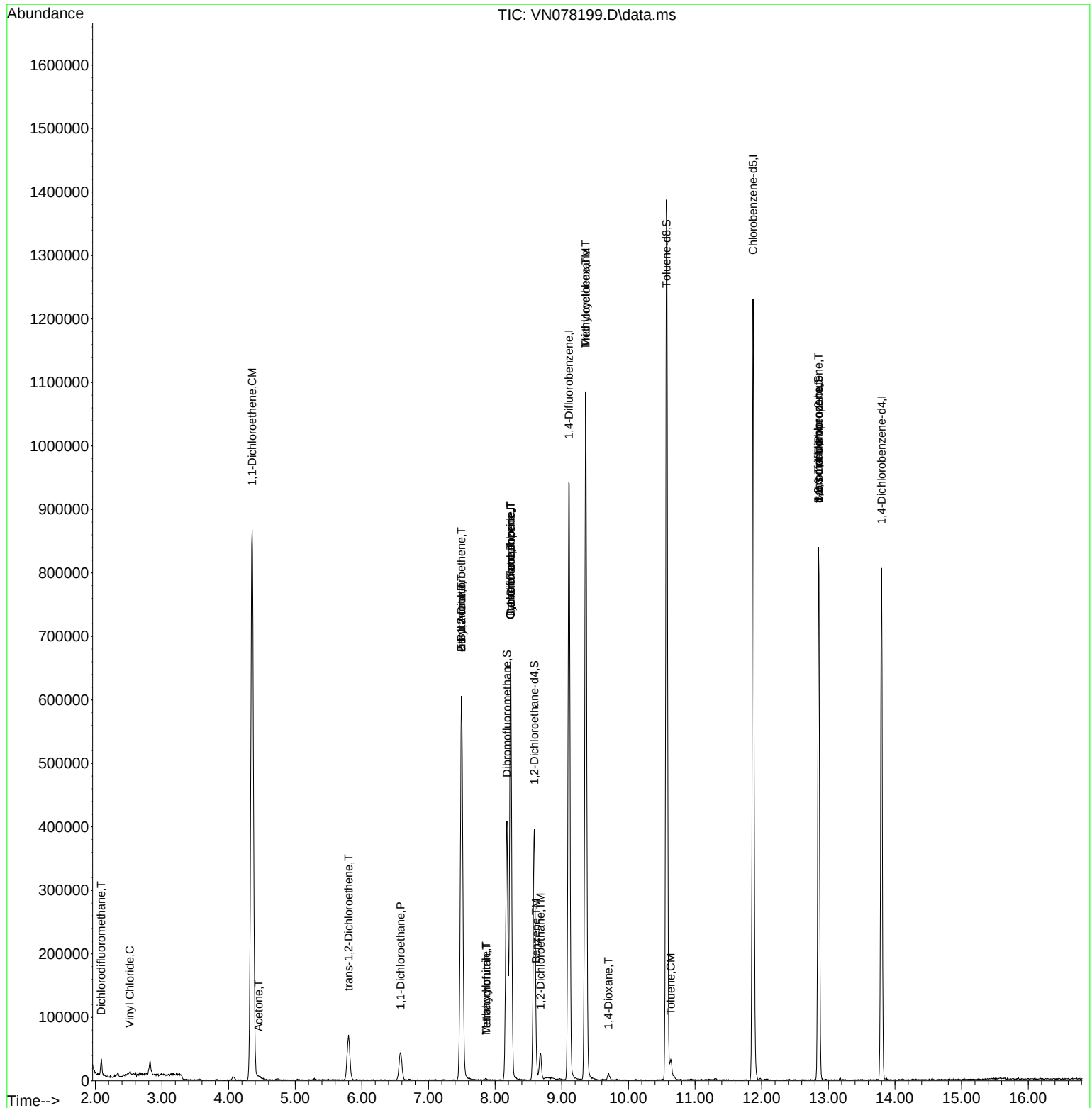
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

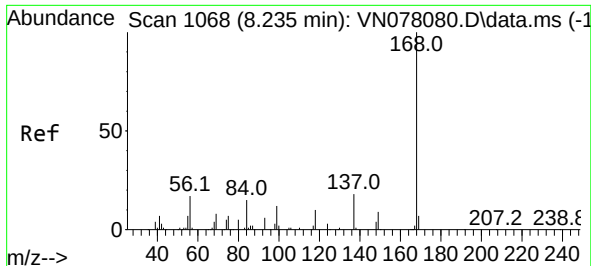
Internal Standards						
1) Pentafluorobenzene	8.235	168	472187	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	864952	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	749395	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	220240	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	326413	51.847	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.700%			
35) Dibromofluoromethane	8.177	113	293783	53.718	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.440%			
50) Toluene-d8	10.570	98	1034661	49.075	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.140%			
62) 4-Bromofluorobenzene	12.853	95	301564	46.010	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 92.020%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.089	85	2004	0.375	ug/l	90
3) Chloromethane	2.377	50	1132	Below Cal	#	82
4) Vinyl Chloride	2.518	62	4740	0.678	ug/l #	86
12) 1,1-Dichloroethene	4.353	96	533663	103.498	ug/l	88
16) Acetone	4.447	43	2962	1.635	ug/l	94
21) trans-1,2-Dichloroethene	5.800	96	42598	7.660	ug/l #	82
24) 1,1-Dichloroethane	6.583	63	64741	6.629	ug/l	98
25) 2-Butanone	7.494	43	1397	0.501	ug/l #	1
27) cis-1,2-Dichloroethene	7.494	96	379938	57.274	ug/l	96
29) Tetrahydrofuran	7.871	42	862	0.463	ug/l #	71
31) Cyclohexane	8.229	56	11394	1.411	ug/l #	15
36) 1,1-Dichloropropene	8.235	75	42026	5.357	ug/l #	49
37) Ethyl Acetate	7.494	43	1397	0.228	ug/l #	1
38) Carbon Tetrachloride	8.229	117	53389	6.445	ug/l #	16
39) Methylcyclohexane	9.359	83	5378	0.662	ug/l #	1
40) Benzene	8.612	78	5856	0.250	ug/l	94
41) Methacrylonitrile	7.865	41	1046	0.315	ug/l #	22
42) 1,2-Dichloroethane	8.682	62	39041	4.862	ug/l	99
44) Trichloroethene	9.359	130	390850	63.195	ug/l	99
49) 1,4-Dioxane	9.700	88	8089	78.251	ug/l #	82
52) Toluene	10.635	92	11060	0.748	ug/l	99
71) Bromoform	12.853	173	1737	0.456	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.941	83	137	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	164997	31.690	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	164997	97.362	ug/l #	15

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

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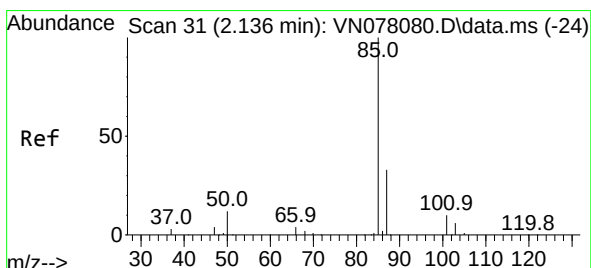
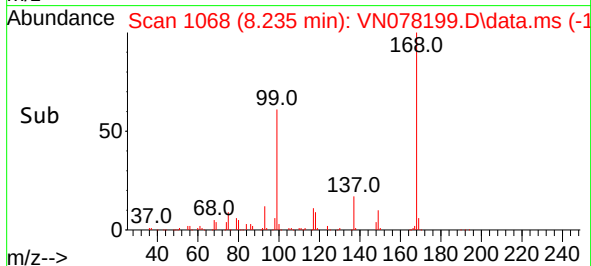
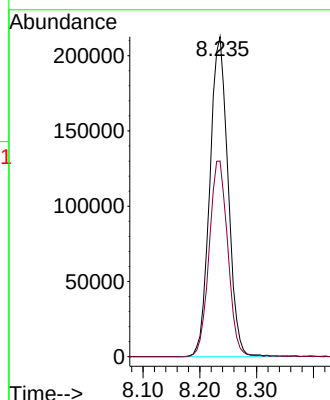
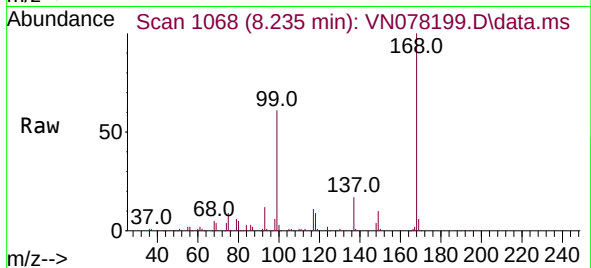




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

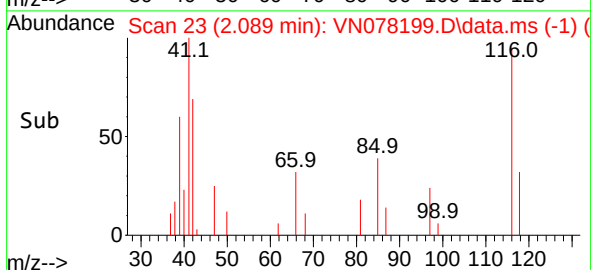
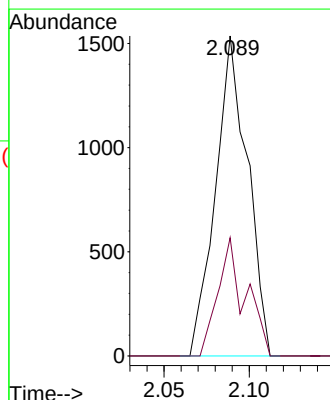
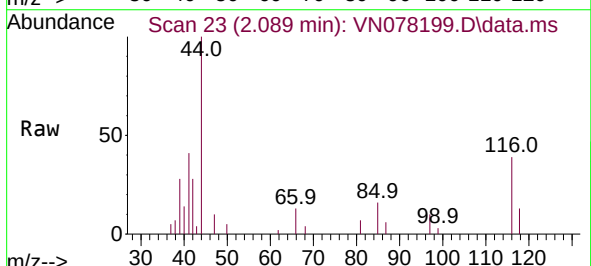
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-84-104-061323

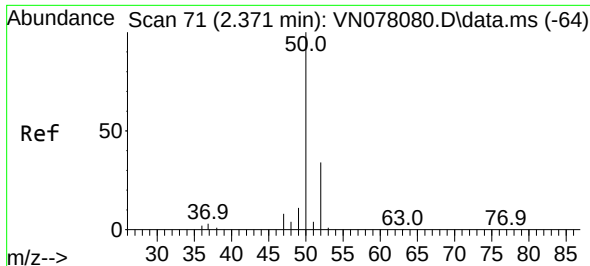
Tgt Ion:168 Resp: 472187
Ion Ratio Lower Upper
168 100
99 61.1 53.0 79.6



#2
Dichlorodifluoromethane
Concen: 0.375 ug/l
RT: 2.089 min Scan# 23
Delta R.T. -0.047 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

Tgt Ion: 85 Resp: 2004
Ion Ratio Lower Upper
85 100
87 37.0 15.8 47.4

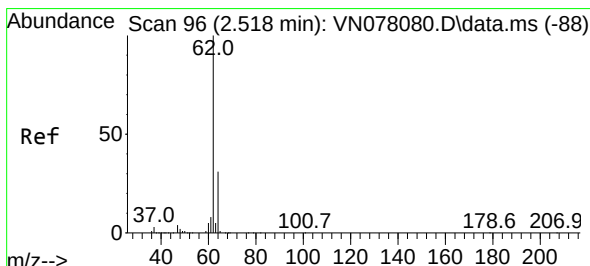
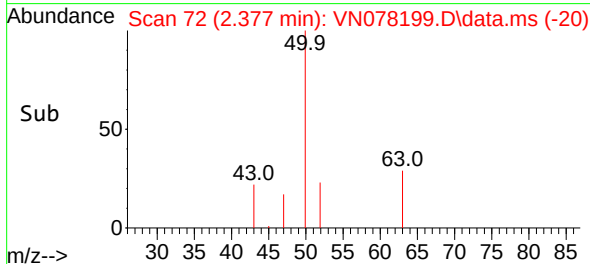
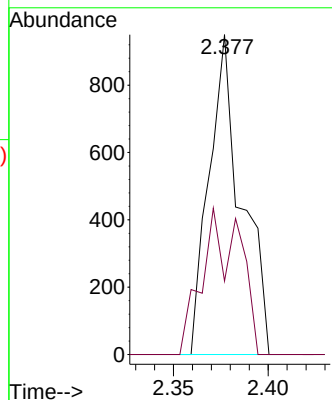
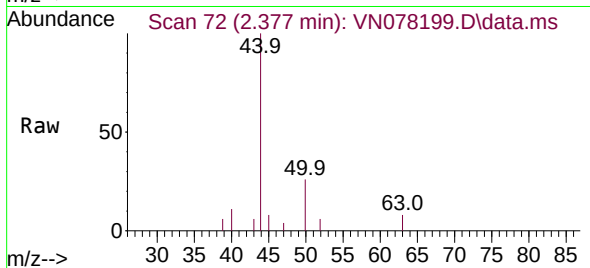




#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

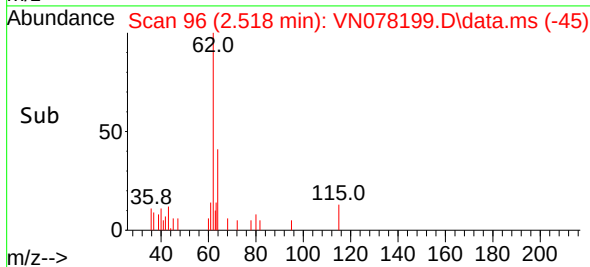
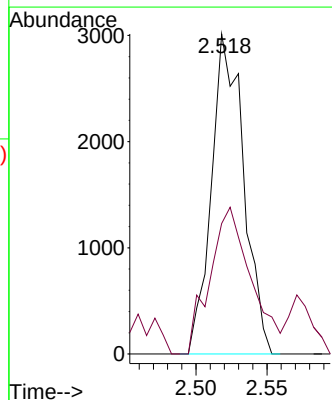
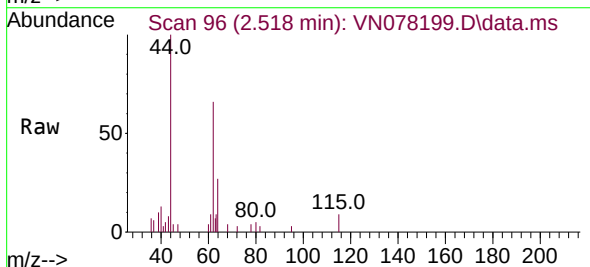
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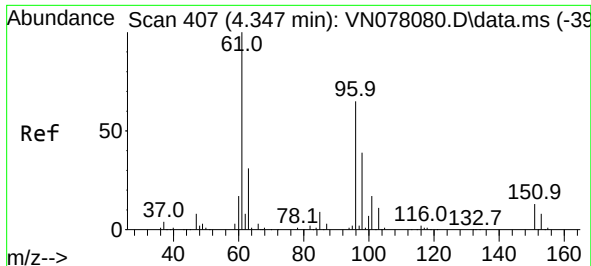
Tgt Ion: 50 Resp: 1132
Ion Ratio Lower Upper
50 100
52 22.9 26.5 39.7#



#4
Vinyl Chloride
Concen: 0.678 ug/l
RT: 2.518 min Scan# 96
Delta R.T. -0.000 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

Tgt Ion: 62 Resp: 4740
Ion Ratio Lower Upper
62 100
64 40.8 26.2 39.2#

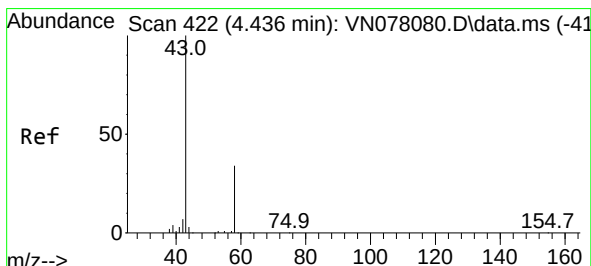
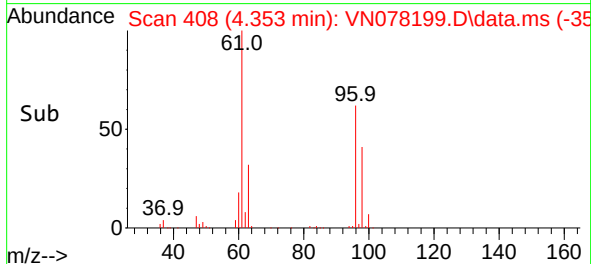
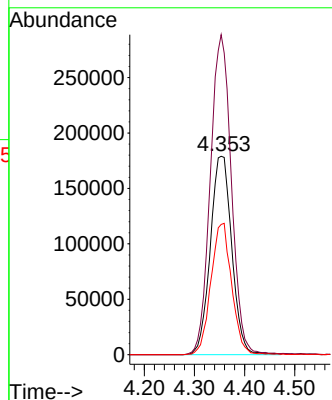
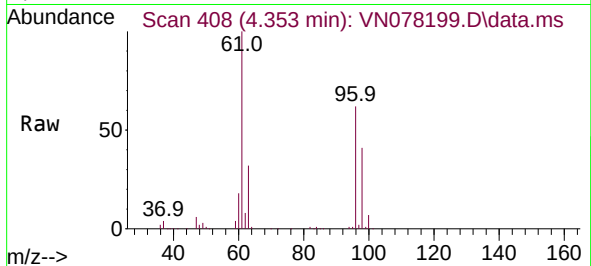




#12
1,1-Dichloroethene
Concen: 103.498 ug/l
RT: 4.353 min Scan# 407
Delta R.T. 0.006 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

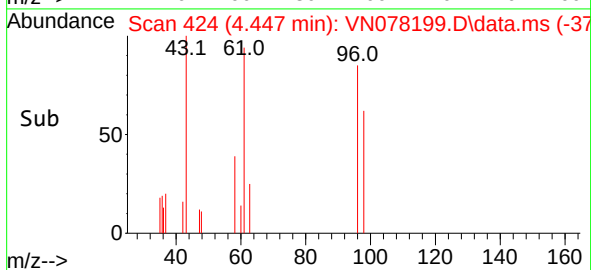
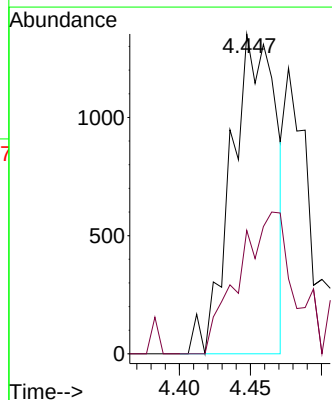
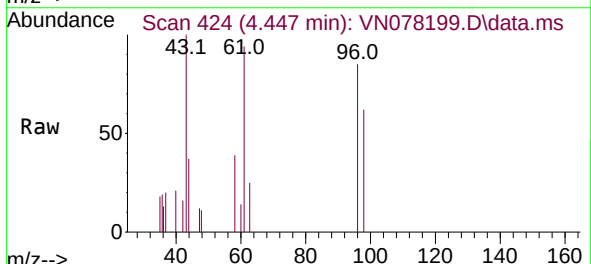
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ClientSampleId :
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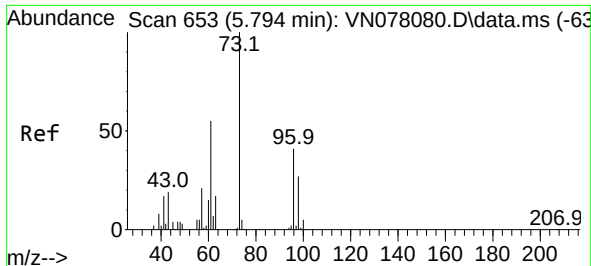
Tgt Ion: 96 Resp: 533663
Ion Ratio Lower Upper
96 100
61 161.2 112.7 169.1
98 65.6 51.2 76.8



#16
Acetone
Concen: 1.635 ug/l
RT: 4.447 min Scan# 424
Delta R.T. 0.012 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

Tgt Ion: 43 Resp: 2962
Ion Ratio Lower Upper
43 100
58 38.6 28.0 42.0

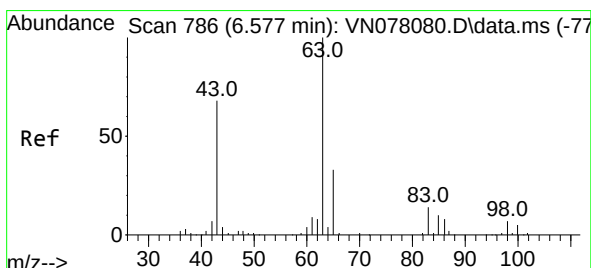
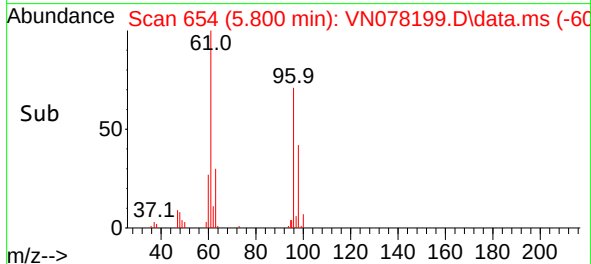
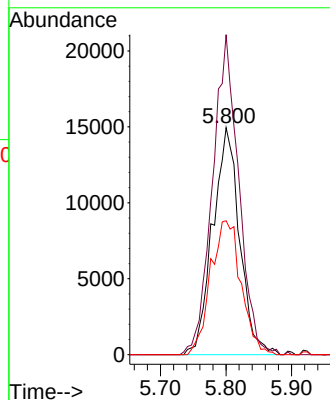
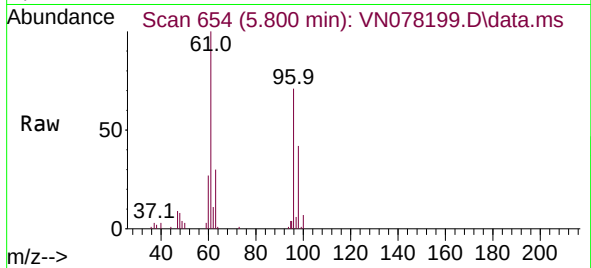




#21
trans-1,2-Dichloroethene
Concen: 7.660 ug/l
RT: 5.800 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

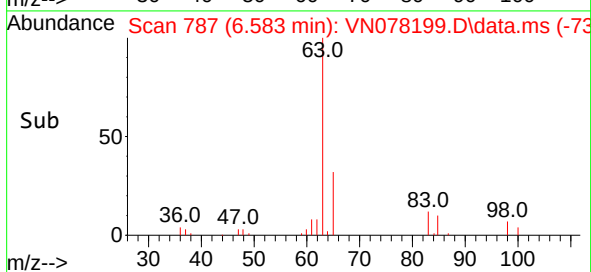
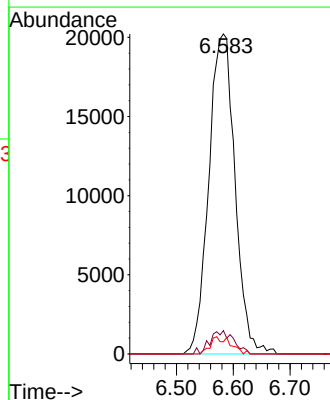
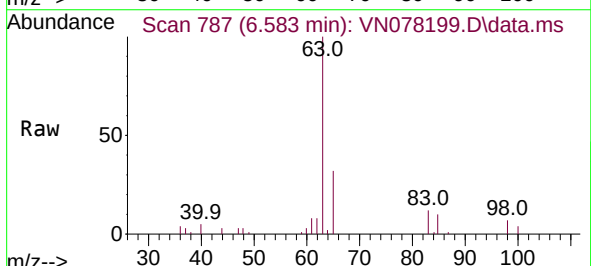
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-84-104-061323

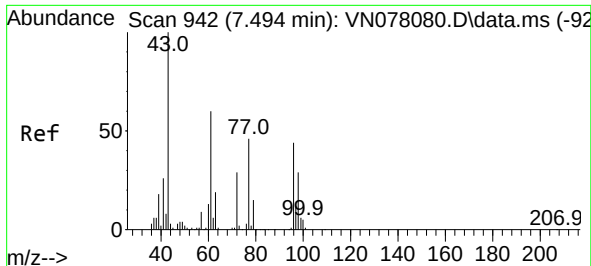
Tgt Ion: 96 Resp: 42598
Ion Ratio Lower Upper
96 100
61 140.9 90.1 135.1#
98 58.9 46.4 69.6



#24
1,1-Dichloroethane
Concen: 6.629 ug/l
RT: 6.583 min Scan# 787
Delta R.T. 0.006 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

Tgt Ion: 63 Resp: 64741
Ion Ratio Lower Upper
63 100
98 7.3 3.9 11.7
100 3.8 2.5 7.4

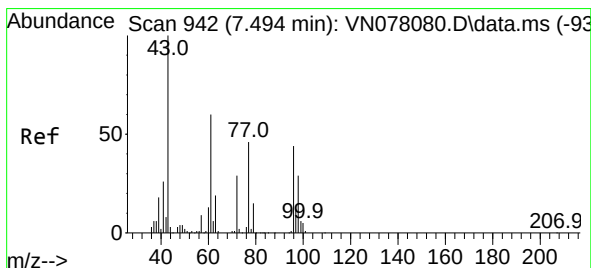
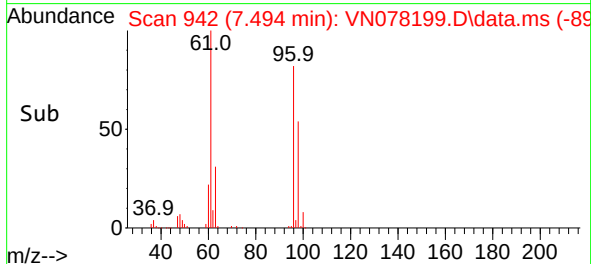
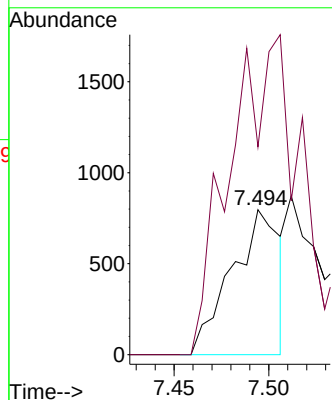
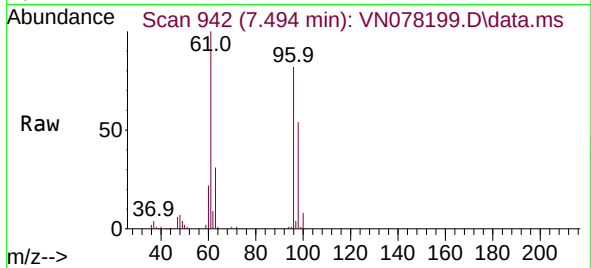




#25
2-Butanone
Concen: 0.501 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

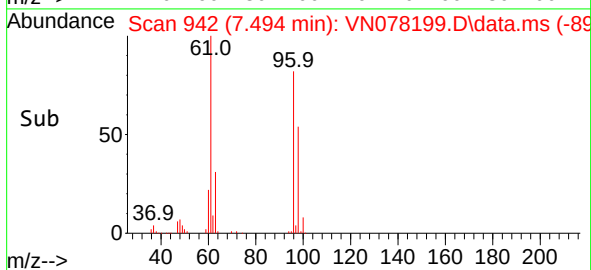
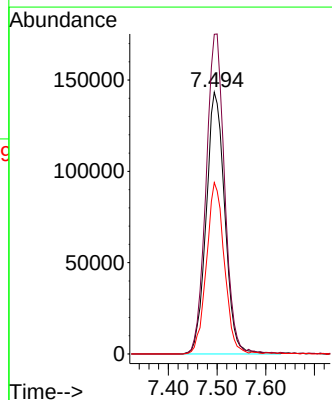
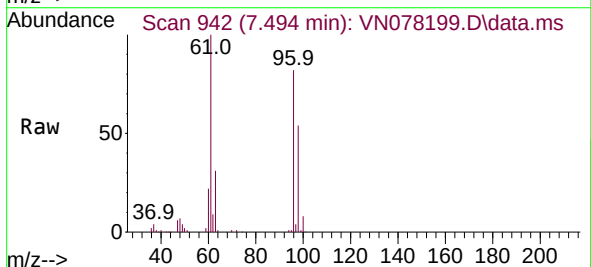
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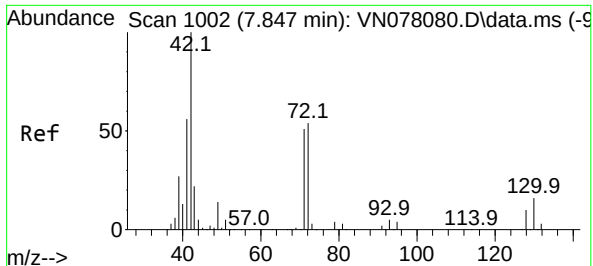
Tgt Ion: 43 Resp: 1397
Ion Ratio Lower Upper
43 100
72 143.3 30.2 45.2#



#27
cis-1,2-Dichloroethene
Concen: 57.274 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

Tgt Ion: 96 Resp: 379938
Ion Ratio Lower Upper
96 100
61 122.0 0.0 255.2
98 62.7 0.0 128.8





#29

Tetrahydrofuran

Concen: 0.463 ug/l

RT: 7.871 min Scan# 1006

Delta R.T. 0.023 min

Lab File: VN078199.D

Acq: 14 Jun 2023 12:32

Instrument :

MSVOA_N

ClientSampleId :

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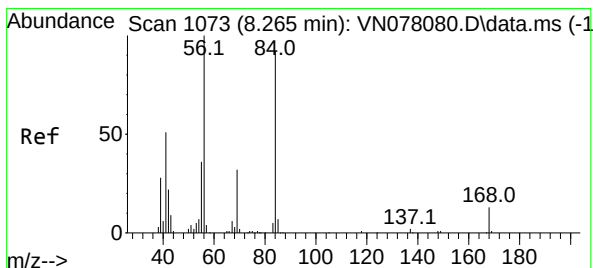
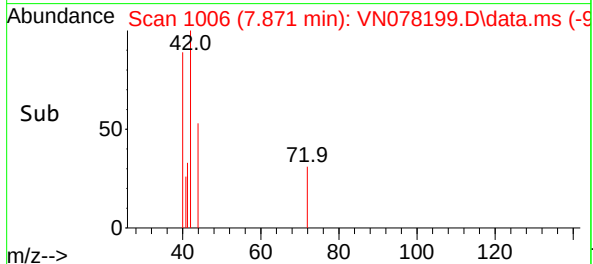
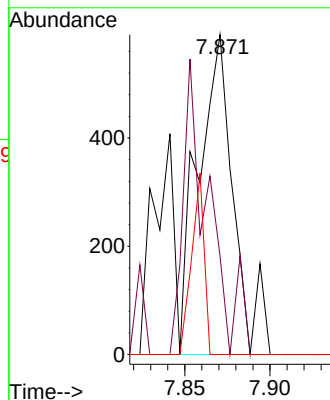
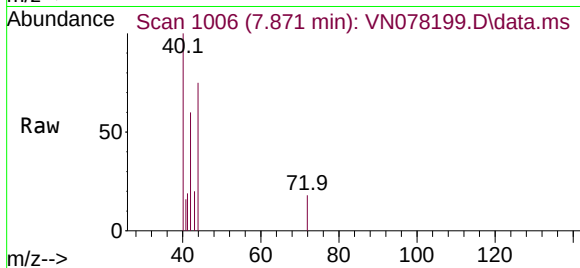
Tgt Ion: 42 Resp: 862

Ion Ratio Lower Upper

42 100

72 66.6 49.8 74.6

71 19.8 47.4 71.2#



#31

Cyclohexane

Concen: 1.411 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN078199.D

Acq: 14 Jun 2023 12:32

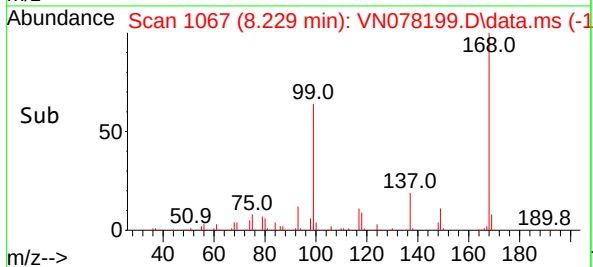
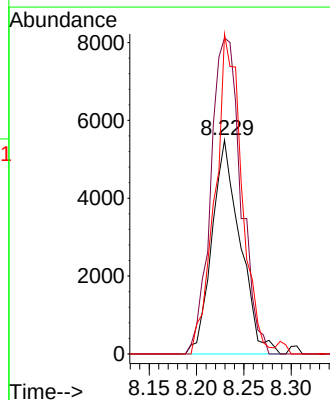
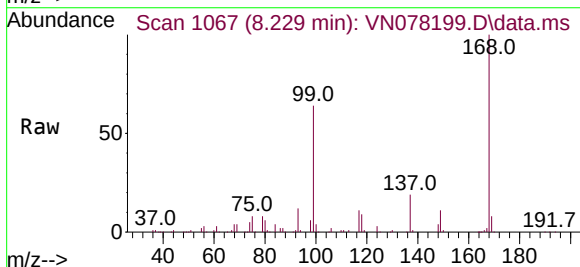
Tgt Ion: 56 Resp: 11394

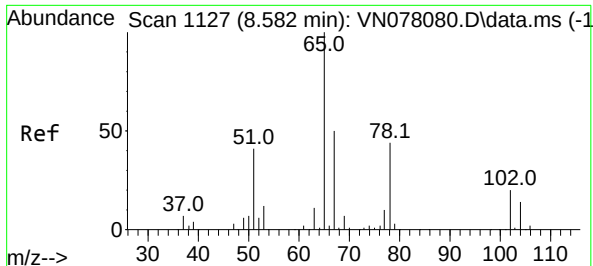
Ion Ratio Lower Upper

56 100

69 147.9 26.8 40.2#

84 149.7 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 51.847 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN078199.D

Acq: 14 Jun 2023 12:32

Instrument :

MSVOA_N

ClientSampleId :

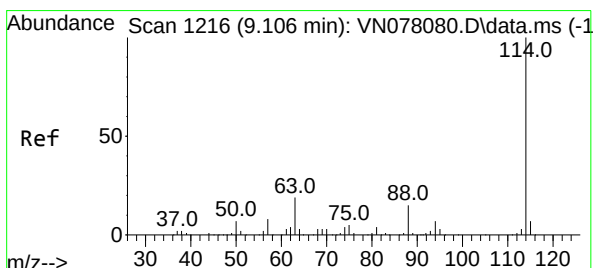
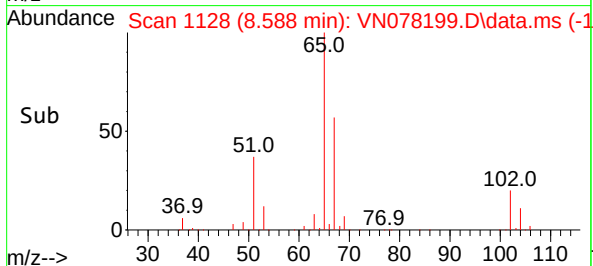
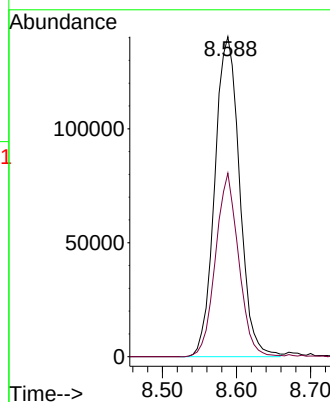
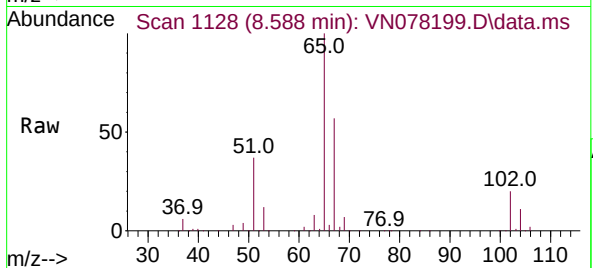
GWOW-BR-05-84-104-061323

Tgt Ion: 65 Resp: 326413

Ion Ratio Lower Upper

65 100

67 53.5 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN078199.D

Acq: 14 Jun 2023 12:32

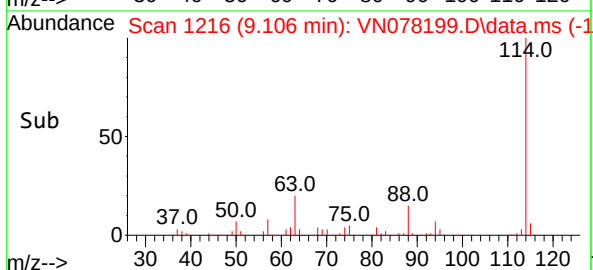
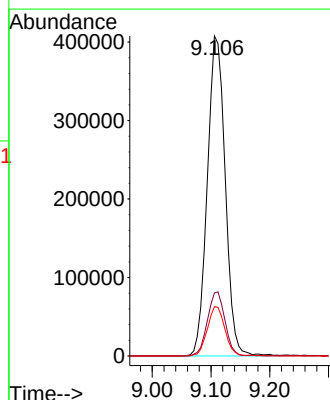
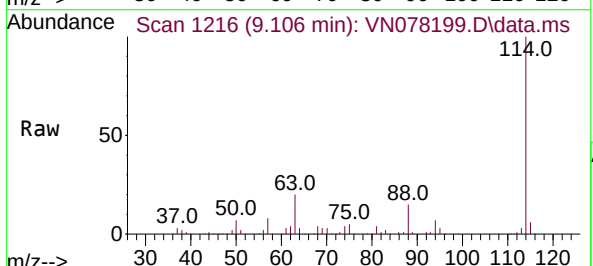
Tgt Ion: 114 Resp: 864952

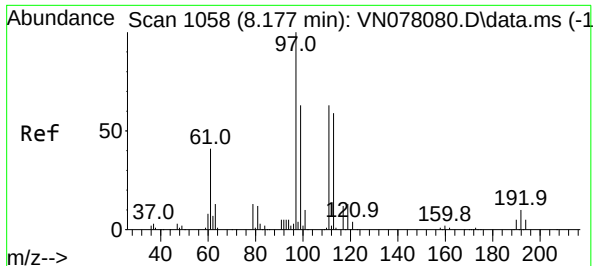
Ion Ratio Lower Upper

114 100

63 19.7 0.0 36.4

88 15.4 0.0 30.6





#35

Dibromofluoromethane

Concen: 53.718 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN078199.D

Acq: 14 Jun 2023 12:32

Instrument :

MSVOA_N

ClientSampleId :

GWOW-BR-05-84-104-061323

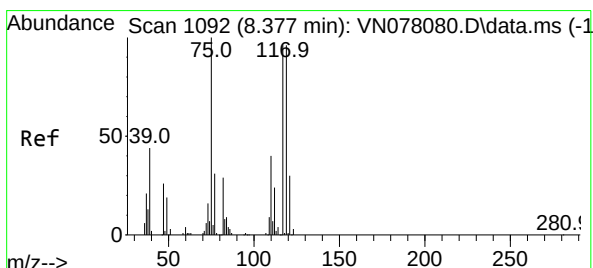
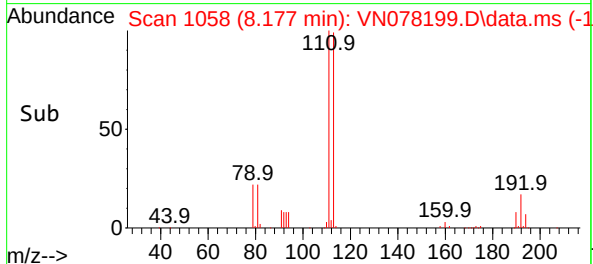
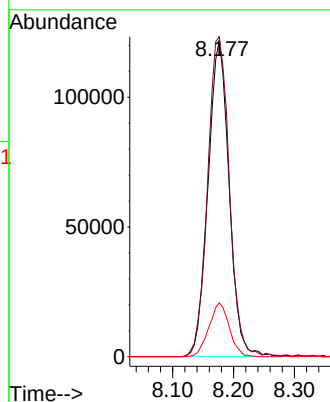
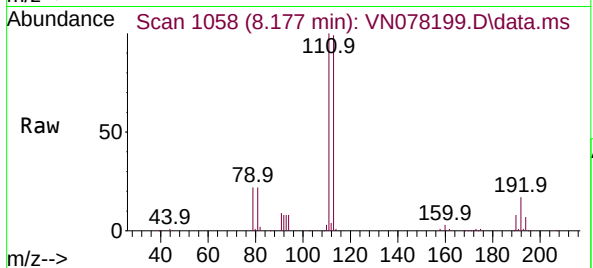
Tgt Ion:113 Resp: 293783

Ion Ratio Lower Upper

113 100

111 103.4 82.6 123.8

192 16.4 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.357 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VN078199.D

Acq: 14 Jun 2023 12:32

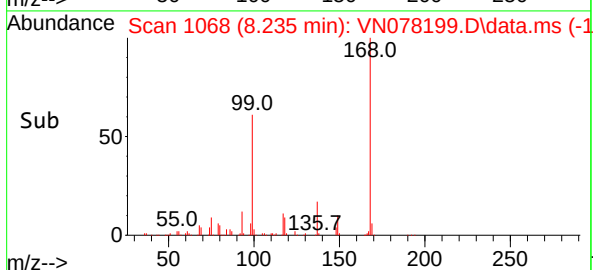
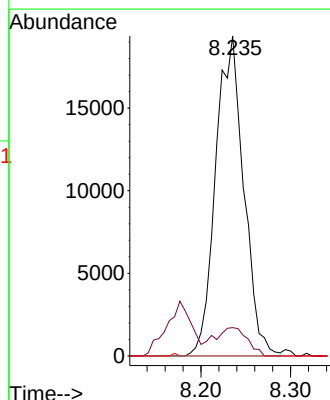
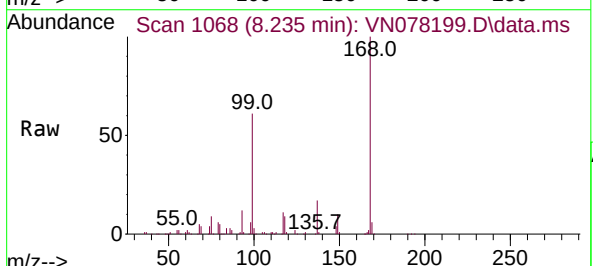
Tgt Ion: 75 Resp: 42026

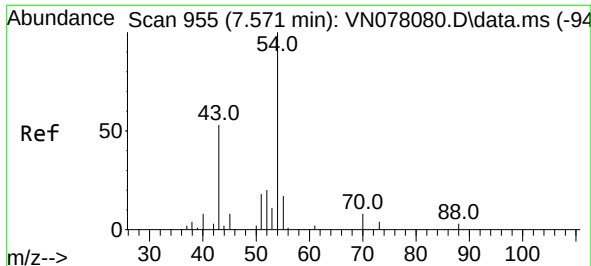
Ion Ratio Lower Upper

75 100

110 9.8 19.1 57.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.228 ug/l

RT: 7.494 min Scan# 94

Delta R.T. -0.077 min

Lab File: VN078199.D

Acq: 14 Jun 2023 12:32

Instrument :

MSVOA_N

ClientSampleId :

GWOW-BR-05-84-104-061323

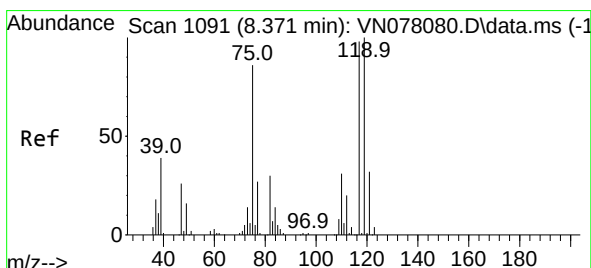
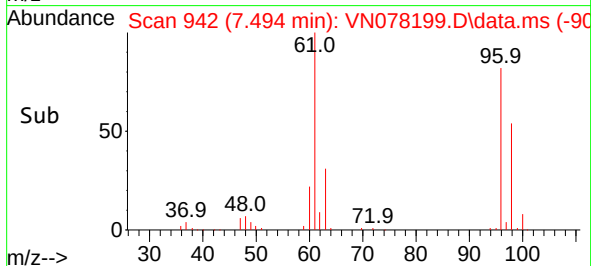
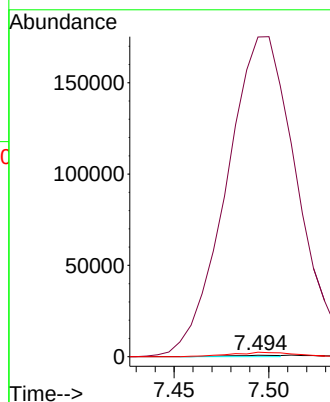
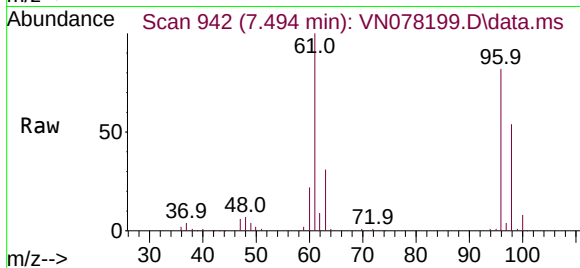
Tgt Ion: 43 Resp: 1397

Ion Ratio Lower Upper

43 100

61 33181.9 13.2 19.8#

70 413.0 11.3 16.9#



#38

Carbon Tetrachloride

Concen: 6.445 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN078199.D

Acq: 14 Jun 2023 12:32

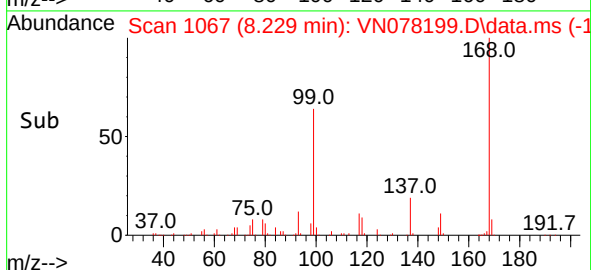
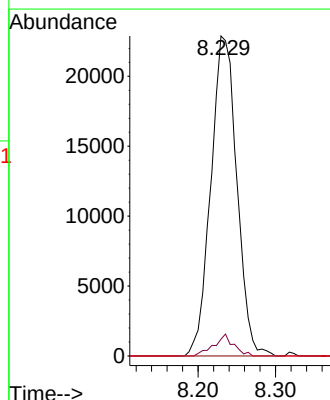
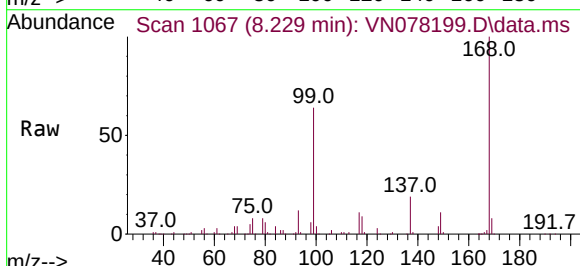
Tgt Ion: 117 Resp: 53389

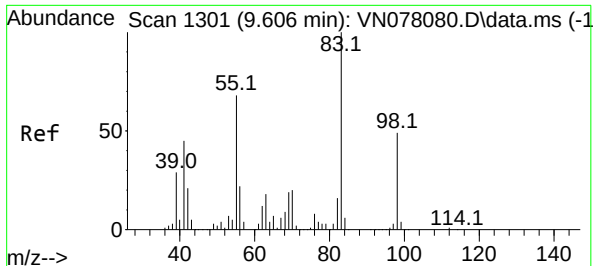
Ion Ratio Lower Upper

117 100

119 5.2 77.3 115.9#

121 0.0 23.3 34.9#

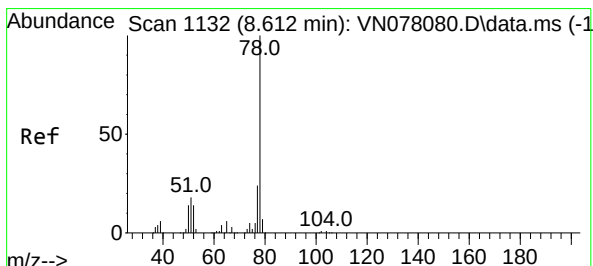
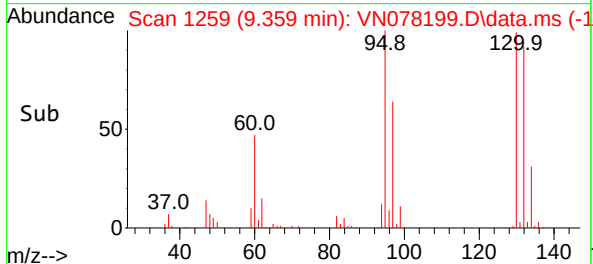
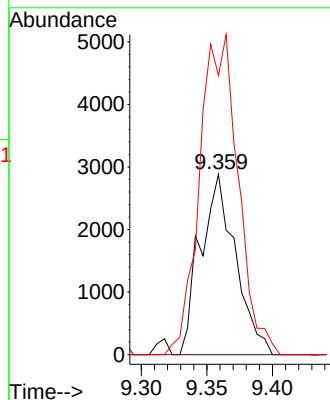
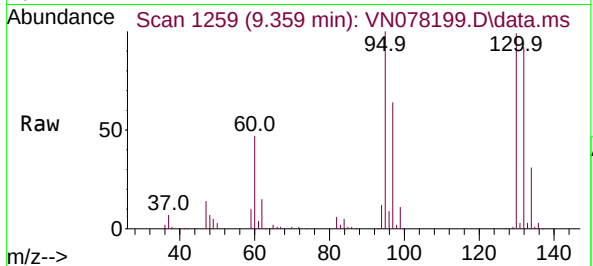




#39
Methylcyclohexane
Concen: 0.662 ug/l
RT: 9.359 min Scan# 1129
Delta R.T. -0.247 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

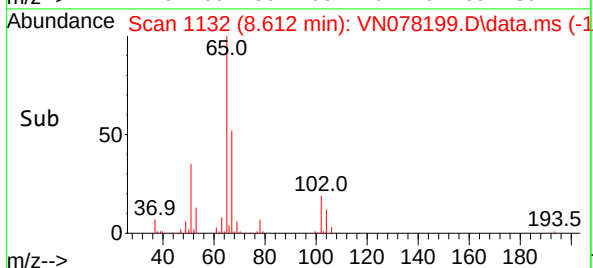
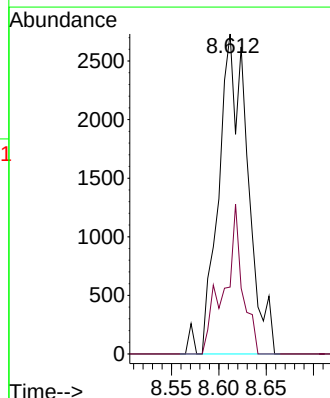
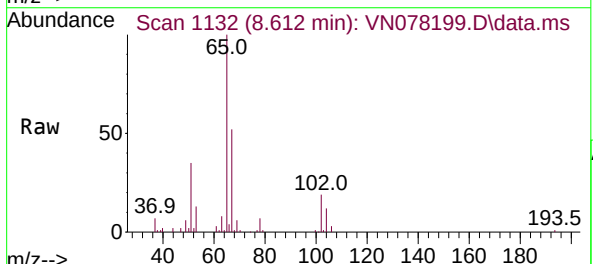
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-84-104-061323

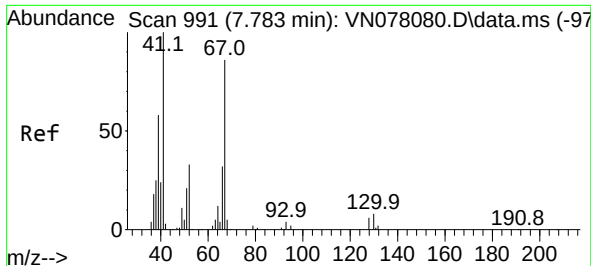
Tgt Ion: 83 Resp: 5378
Ion Ratio Lower Upper
83 100
55 0.0 49.1 73.7#
98 145.1 40.6 61.0#



#40
Benzene
Concen: 0.250 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

Tgt Ion: 78 Resp: 5856
Ion Ratio Lower Upper
78 100
77 20.9 19.0 28.6

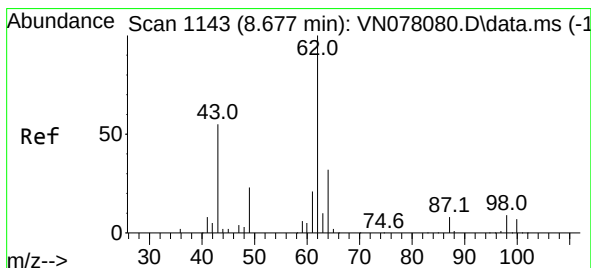
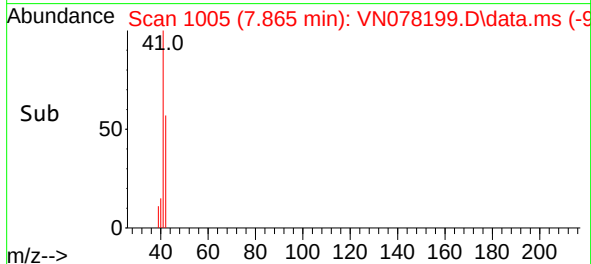
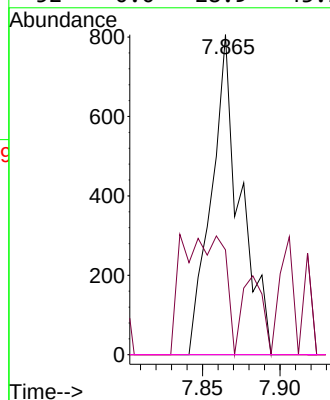
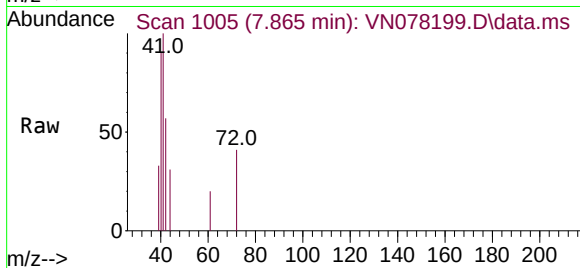




#41
Methacrylonitrile
Concen: 0.315 ug/l
RT: 7.865 min Scan# 1046
Delta R.T. 0.082 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

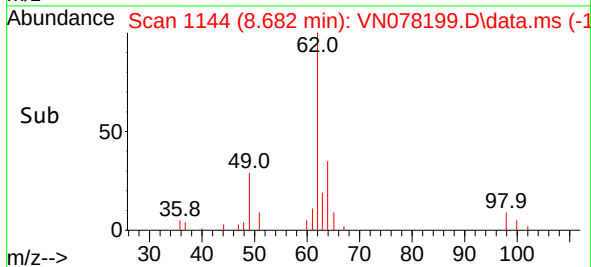
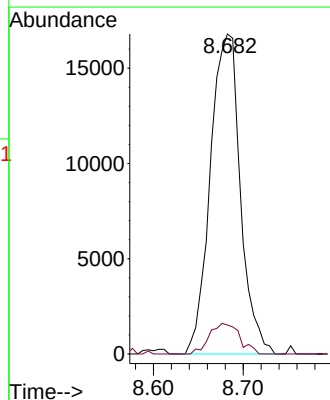
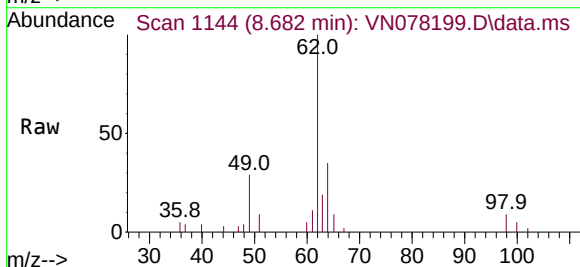
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-84-104-061323

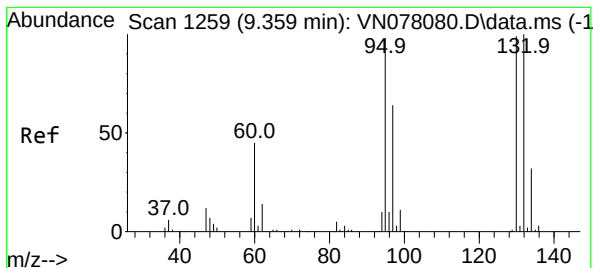
Tgt Ion:	41	Resp:	1046
Ion	Ratio	Lower	Upper
41	100		
39	17.5	42.6	64.0#
67	0.0	77.5	116.3#
52	0.0	28.9	43.3#



#42
1,2-Dichloroethane
Concen: 4.862 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. 0.006 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

Tgt Ion:	62	Resp:	39041
Ion	Ratio	Lower	Upper
62	100		
98	9.6	0.0	19.8





#44

Trichloroethene

Concen: 63.195 ug/l

RT: 9.359 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN078199.D

Acq: 14 Jun 2023 12:32

Instrument :

MSVOA_N

ClientSampleId :

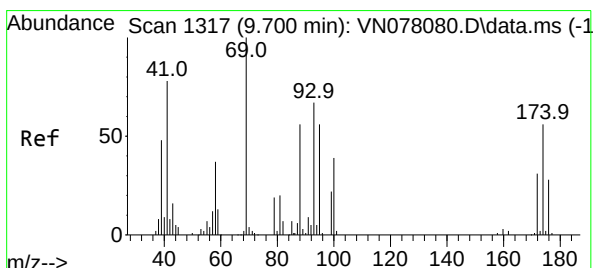
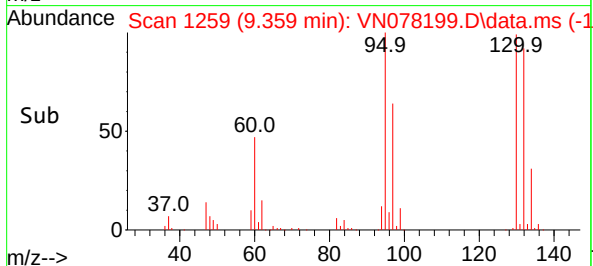
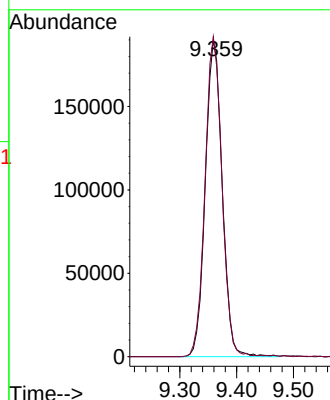
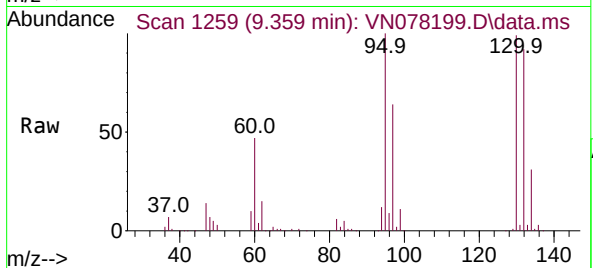
GWOW-BR-05-84-104-061323

Tgt Ion:130 Resp: 390850

Ion Ratio Lower Upper

130 100

95 101.0 0.0 204.6



#49

1,4-Dioxane

Concen: 78.251 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VN078199.D

Acq: 14 Jun 2023 12:32

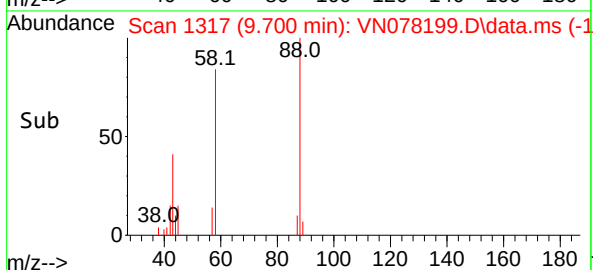
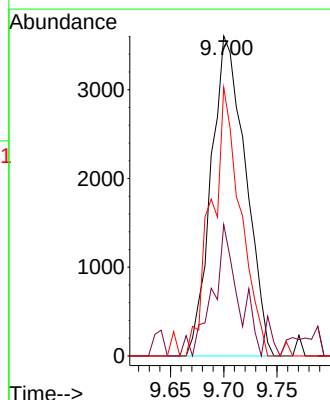
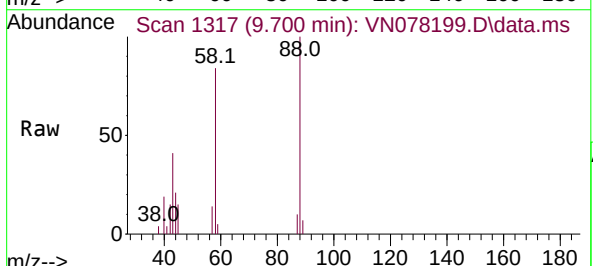
Tgt Ion: 88 Resp: 8089

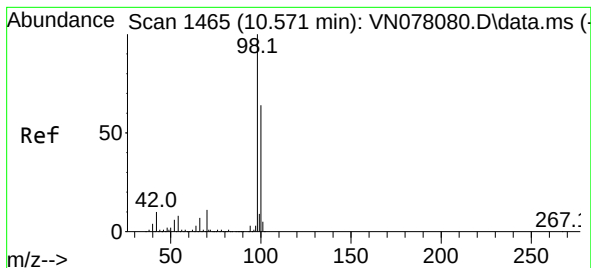
Ion Ratio Lower Upper

88 100

43 30.5 17.0 25.6#

58 71.6 47.0 70.4#

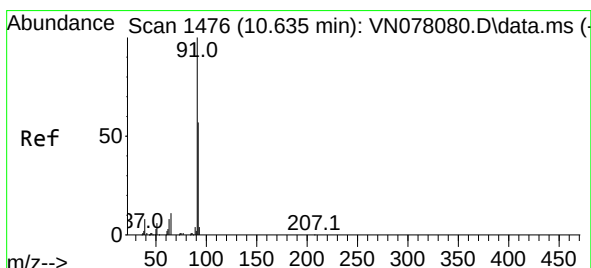
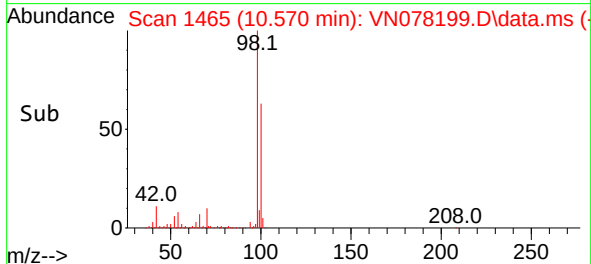
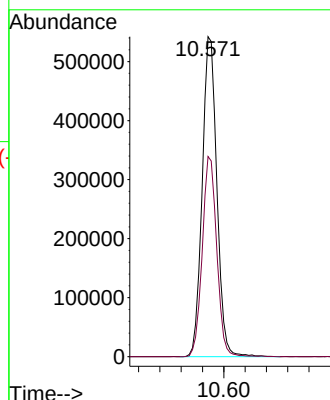
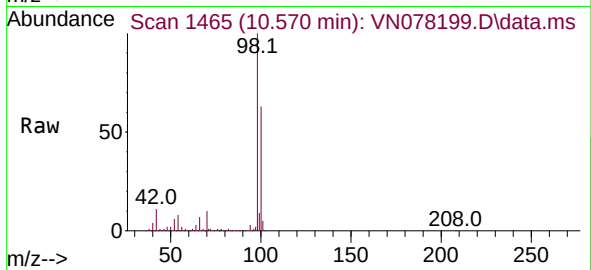




#50
Toluene-d8
Concen: 49.075 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

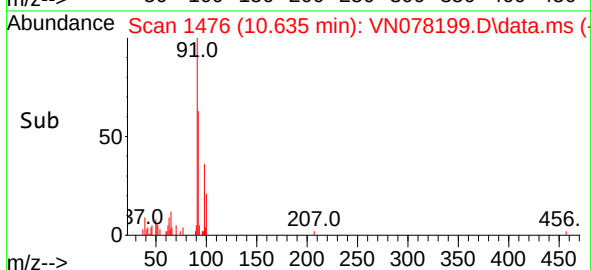
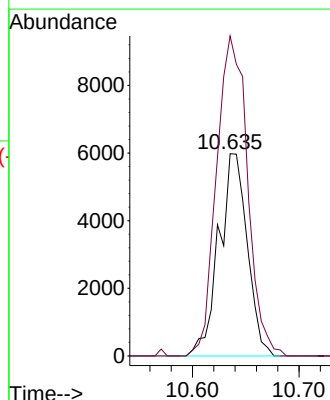
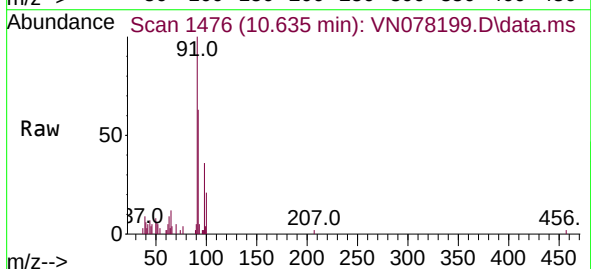
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-84-104-061323

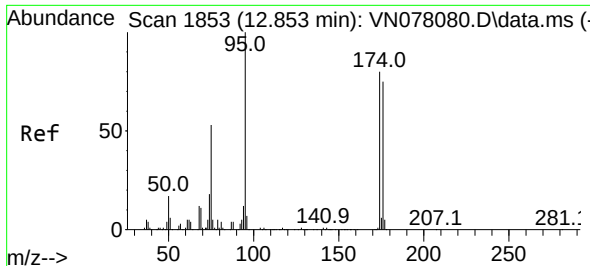
Tgt Ion: 98 Resp: 1034661
Ion Ratio Lower Upper
98 100
100 61.9 52.0 78.0



#52
Toluene
Concen: 0.748 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

Tgt Ion: 92 Resp: 11060
Ion Ratio Lower Upper
92 100
91 172.7 137.4 206.0

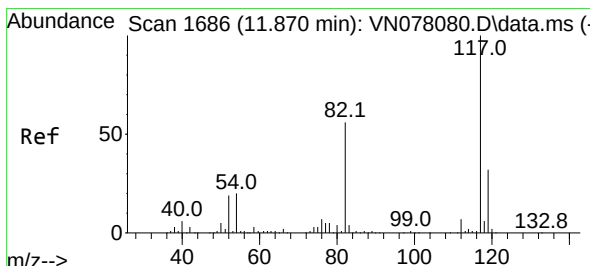
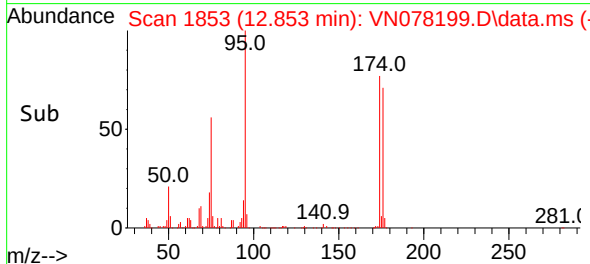
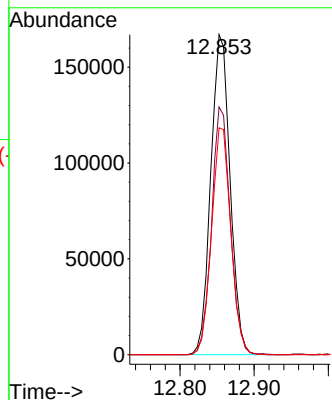
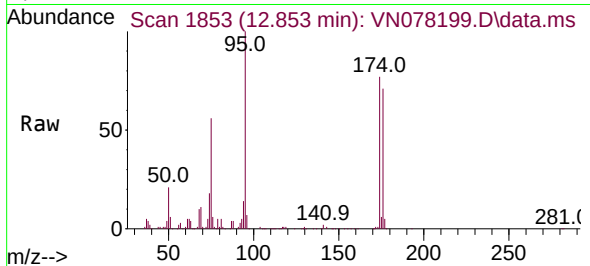




#62
4-Bromofluorobenzene
Concen: 46.010 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

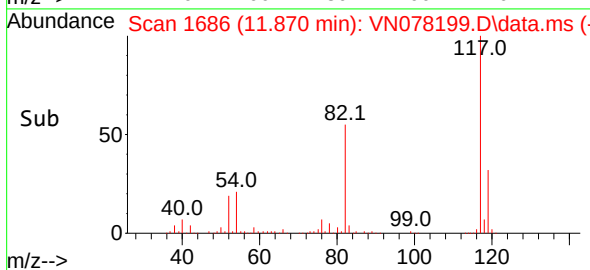
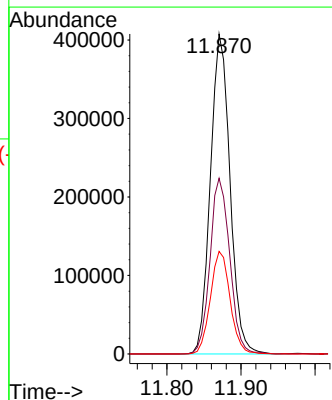
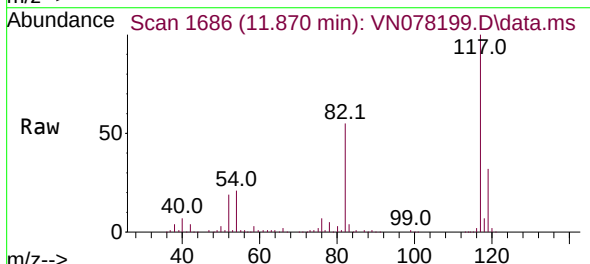
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-84-104-061323

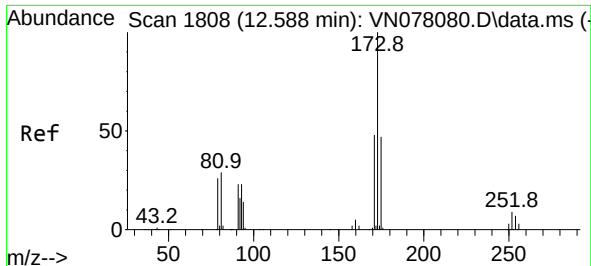
Tgt Ion: 95 Resp: 301564
Ion Ratio Lower Upper
95 100
174 75.0 0.0 143.8
176 70.8 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

Tgt Ion: 117 Resp: 749395
Ion Ratio Lower Upper
117 100
82 54.9 44.0 66.0
119 32.1 25.6 38.4

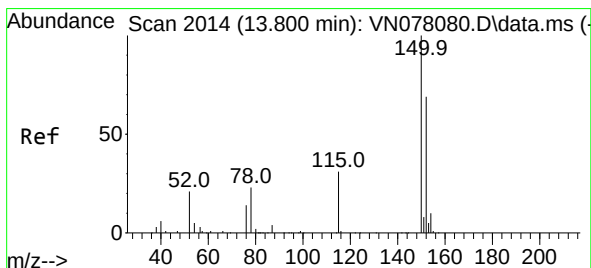
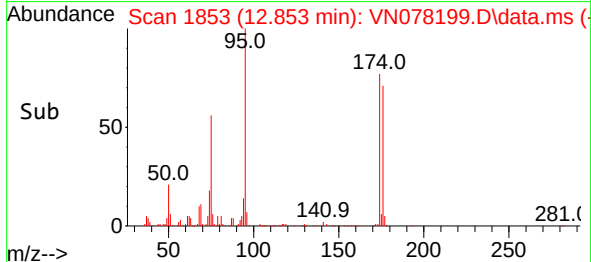
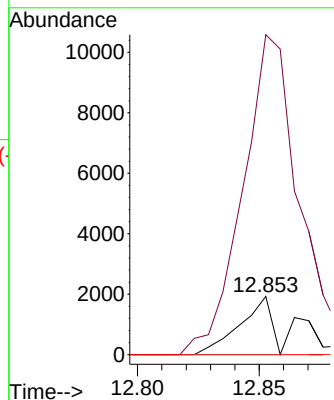
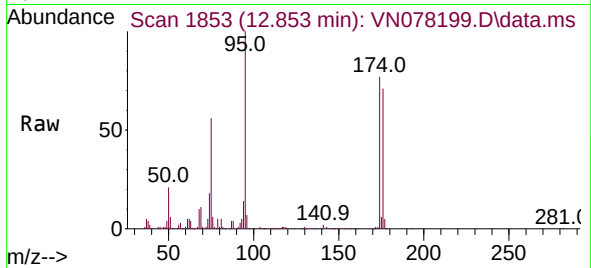




#71
Bromoform
Concen: 0.456 ug/l
RT: 12.853 min Scan# 1808
Delta R.T. 0.265 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

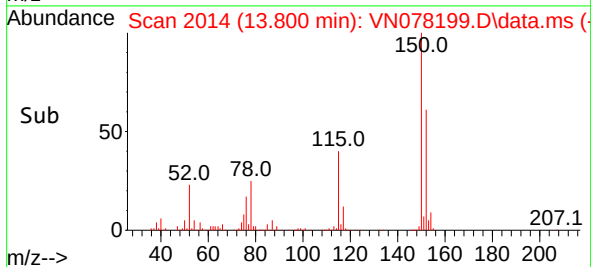
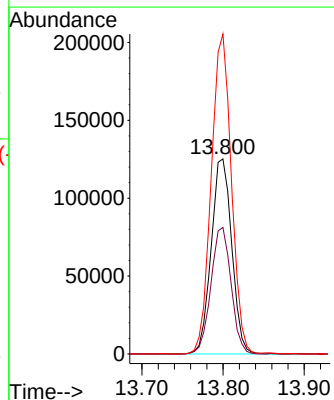
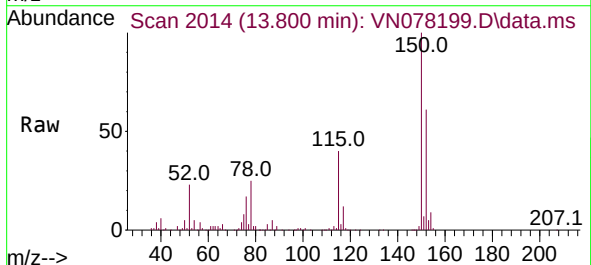
Instrument :
MSVOA_N
ClientSampleId :
GWOW-BR-05-84-104-061323

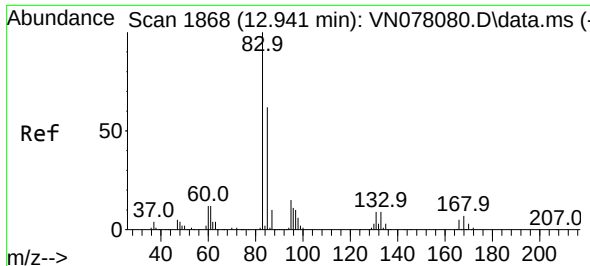
Tgt Ion:173 Resp: 1737
Ion Ratio Lower Upper
173 100
175 831.7 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

Tgt Ion:152 Resp: 220240
Ion Ratio Lower Upper
152 100
115 63.6 32.3 96.8
150 160.4 0.0 355.8

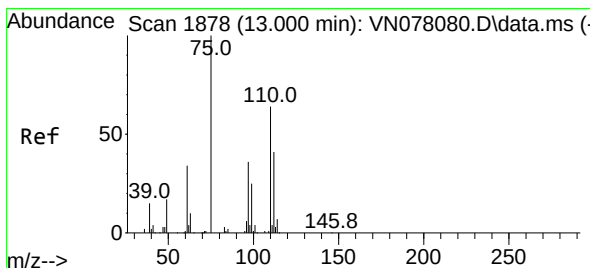
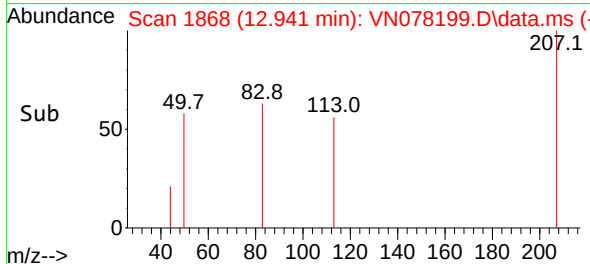
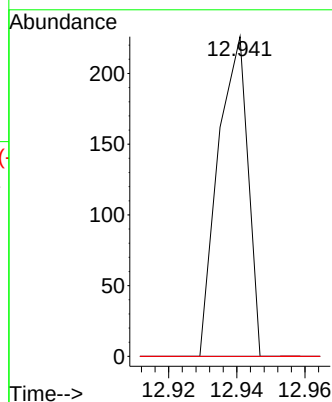
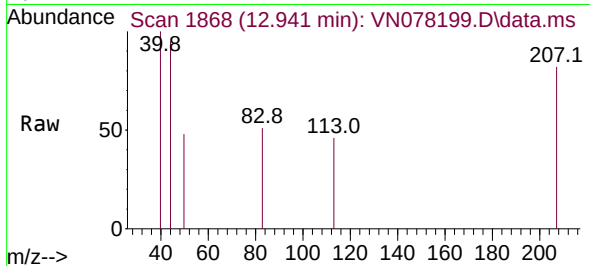




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.941 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

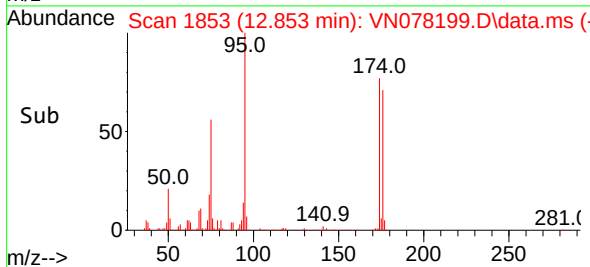
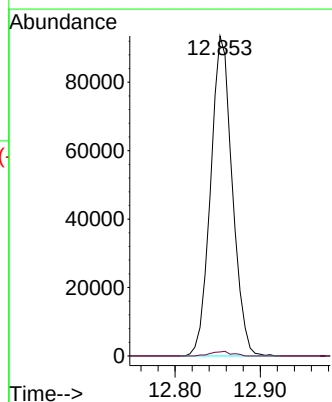
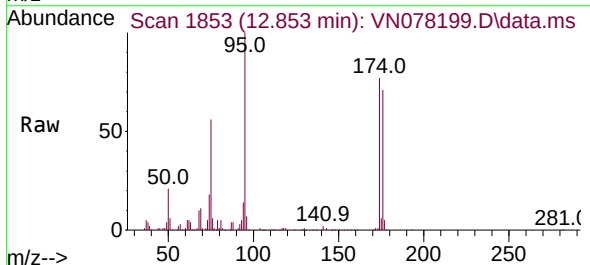
Instrument : MSVOA_N
ClientSampleId : GWOW-BR-05-84-104-061323

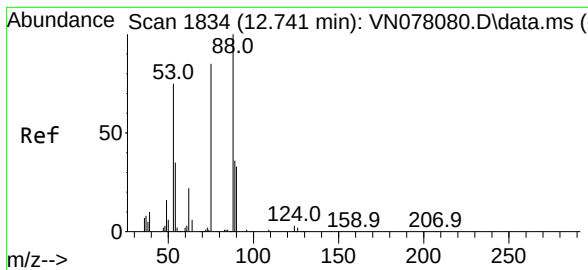
Tgt Ion: 83 Resp: 137
Ion Ratio Lower Upper
83 100
131 0.0 5.0 15.0#
85 0.0 31.9 95.7#



#76
1,2,3-Trichloropropane
Concen: 31.690 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078199.D
Acq: 14 Jun 2023 12:32

Tgt Ion: 75 Resp: 164997
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 97.362 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078199.D
 Acq: 14 Jun 2023 12:32

Instrument :
 MSVOA_N
 ClientSampleId :
 GWOW-BR-05-84-104-061323

Tgt Ion: 75 Resp: 164997
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

