

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062723\
 Data File : VN078418.D
 Acq On : 27 Jun 2023 15:53
 Operator : JC\MD
 Sample : 03376-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TW-1

Quant Time: Jun 28 07:11:17 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

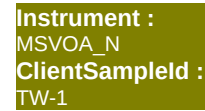
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

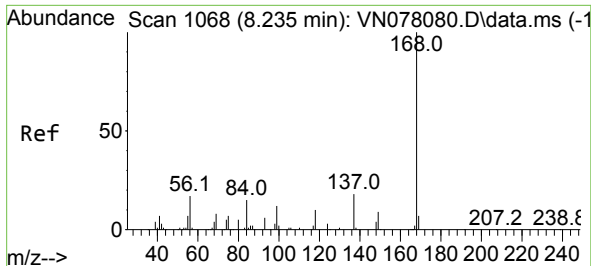
Internal Standards						
1) Pentafluorobenzene	8.235	168	447279	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	814732	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	737908	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	237328	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	305703	51.262	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 102.520%		
35) Dibromofluoromethane	8.177	113	292476	56.776	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 113.560%		
50) Toluene-d8	10.570	98	945929	47.631	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 95.260%		
62) 4-Bromofluorobenzene	12.853	95	312367	50.596	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 101.200%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	1770	Below Cal	#	52
5) Bromomethane	2.971	94	2604	0.520	ug/l #	68
13) Acrolein	4.200	56	343	0.378	ug/l #	16
16) Acetone	4.447	43	2003	1.167	ug/l #	55
17) Carbon Disulfide	4.718	76	2931	0.233	ug/l #	75
20) Methylene Chloride	5.294	84	1287	0.227	ug/l #	85
27) cis-1,2-Dichloroethene	7.500	96	1452	0.231	ug/l	81
28) Bromochloromethane	7.977	49	3876	0.912	ug/l #	5
30) Chloroform	7.977	83	47779	4.796	ug/l	87
31) Cyclohexane	8.229	56	10290	1.345	ug/l #	46
36) 1,1-Dichloropropene	8.229	75	38016	5.145	ug/l #	46
38) Carbon Tetrachloride	8.229	117	48341	6.196	ug/l #	15
43) Isopropyl Acetate	8.741	43	4259	0.386	ug/l #	49
51) 4-Methyl-2-Pentanone	10.441	43	1209	0.208	ug/l #	62
59) 2-Hexanone	11.200	43	1506	0.372	ug/l	87
60) Dibromochloromethane	11.112	129	150005	26.018	ug/l #	11
64) Tetrachloroethene	11.106	164	149742	30.418	ug/l	93
71) Bromoform	12.853	173	2243	0.598	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.953	83	276	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	163789	29.193	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	163789	89.691	ug/l #	15
94) Hexachlorobutadiene	15.505	225	358	Below Cal	#	1
95) Naphthalene	15.641	128	3311	0.321	ug/l #	76

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

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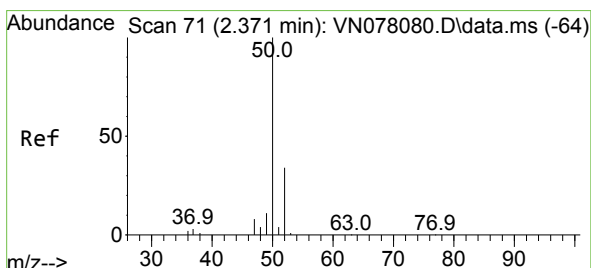
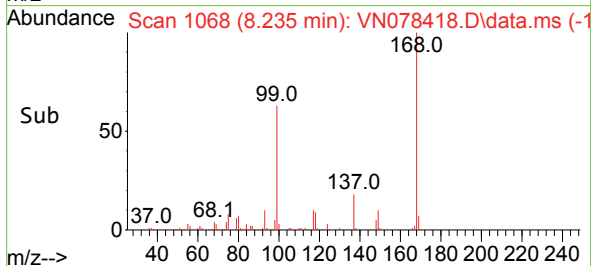
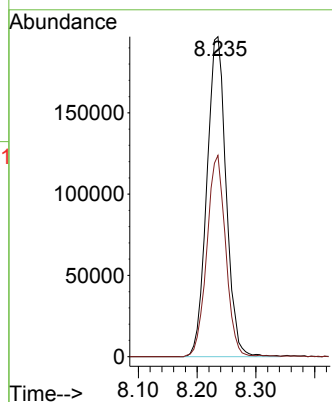
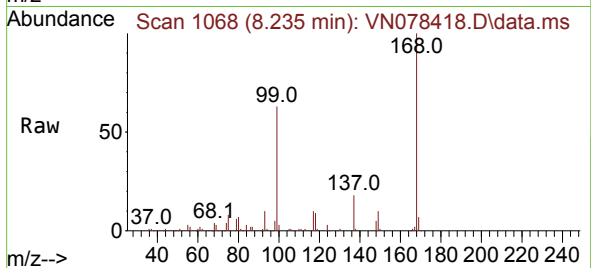




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN078418.D
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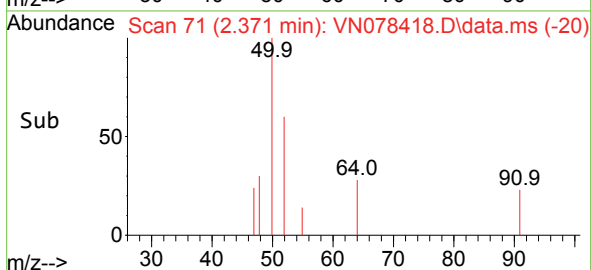
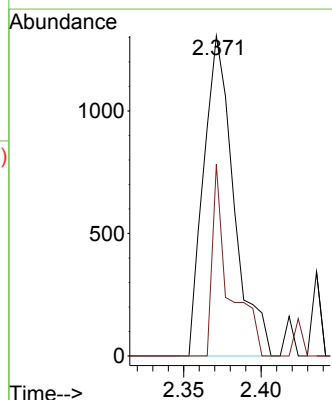
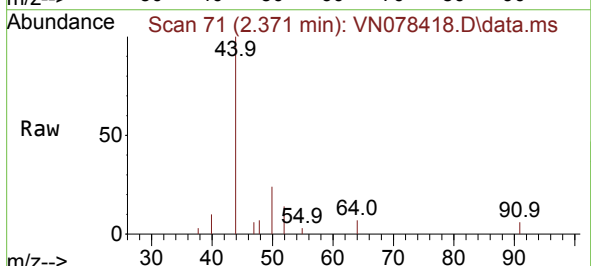
Instrument :
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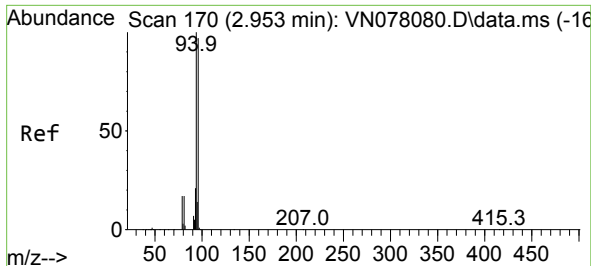
Tgt Ion:168 Resp: 447279
Ion Ratio Lower Upper
168 100
99 62.9 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.000 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

Tgt Ion: 50 Resp: 1770
Ion Ratio Lower Upper
50 100
52 60.0 26.5 39.7#

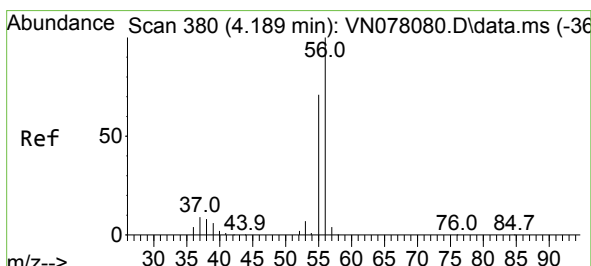
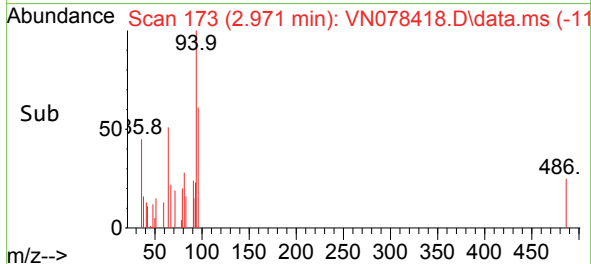
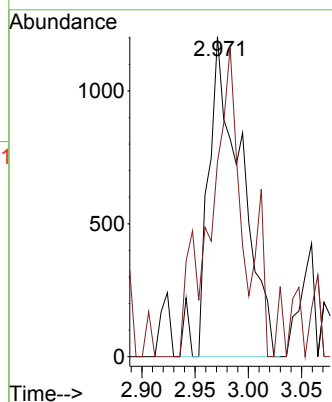
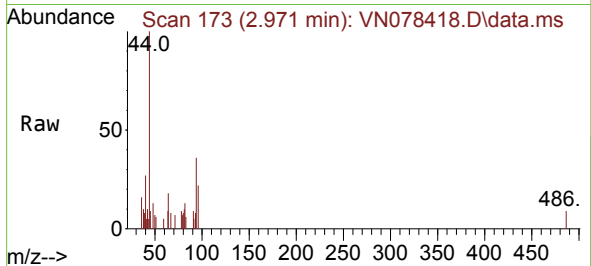




#5
Bromomethane
Concen: 0.520 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

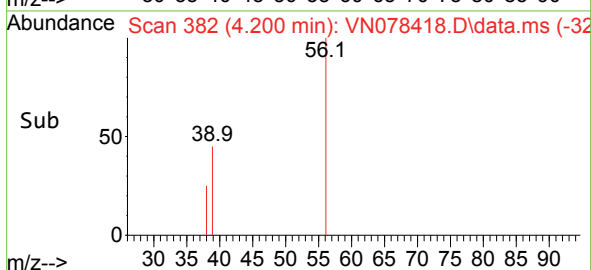
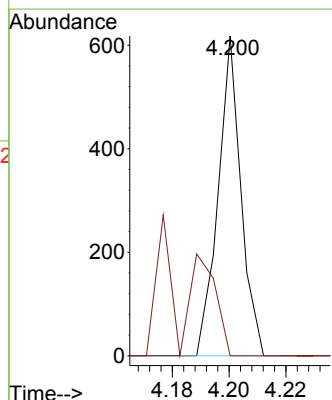
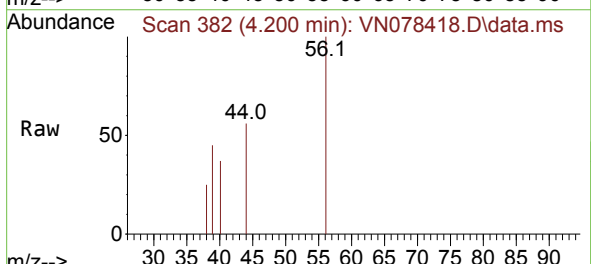
Instrument :
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ClientSampleId :
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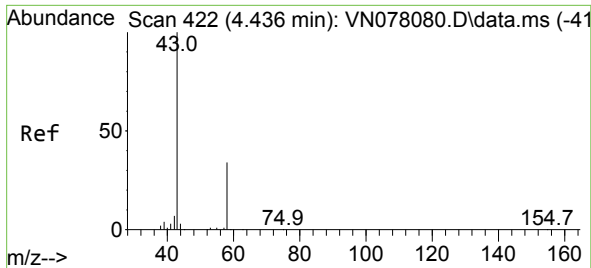
Tgt Ion: 94 Resp: 2604
Ion Ratio Lower Upper
94 100
96 60.9 73.1 109.7#



#13
Acrolein
Concen: 0.378 ug/l
RT: 4.200 min Scan# 382
Delta R.T. 0.012 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

Tgt Ion: 56 Resp: 343
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#

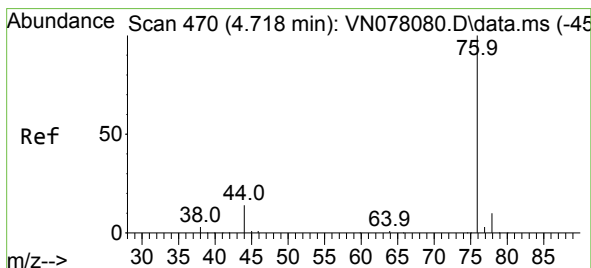
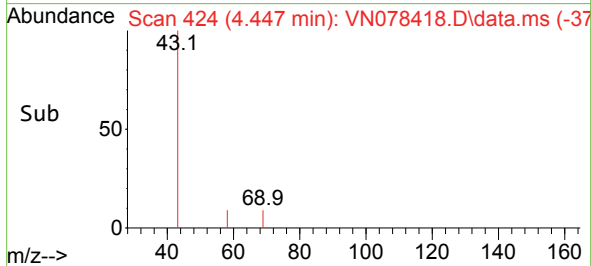
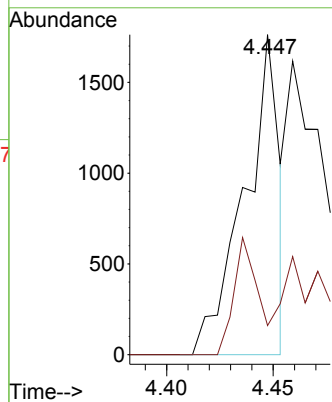
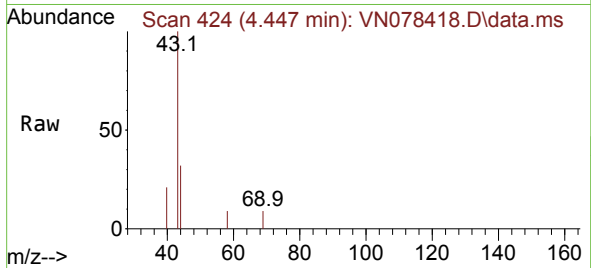




#16
Acetone
Concen: 1.167 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

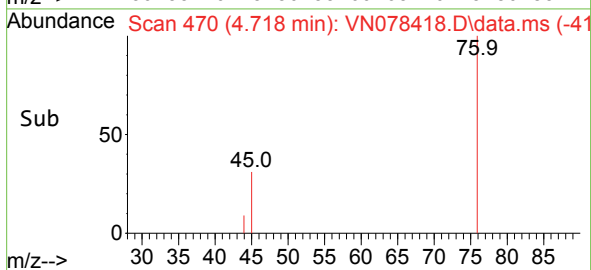
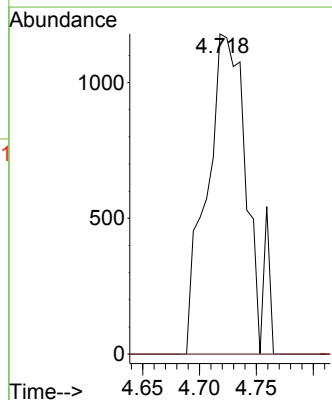
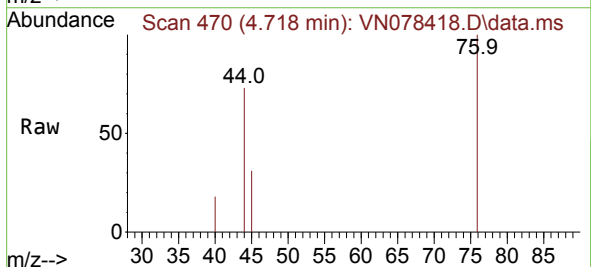
Instrument :
MSVOA_N
ClientSampleId :
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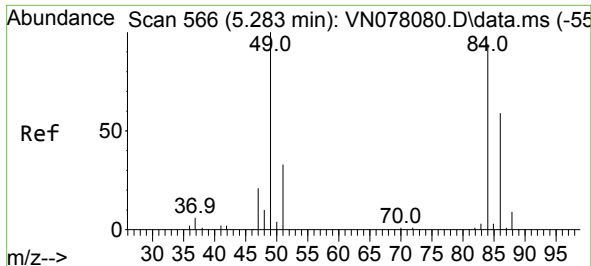
Tgt Ion: 43 Resp: 2003
Ion Ratio Lower Upper
43 100
58 9.1 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.233 ug/l
RT: 4.718 min Scan# 470
Delta R.T. -0.000 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

Tgt Ion: 76 Resp: 2931
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#

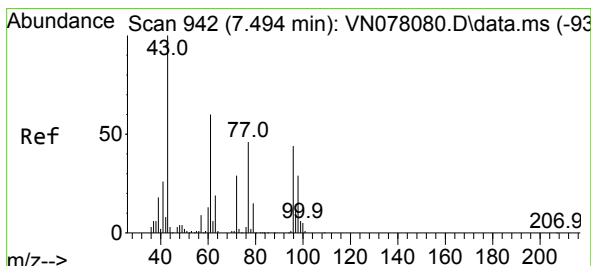
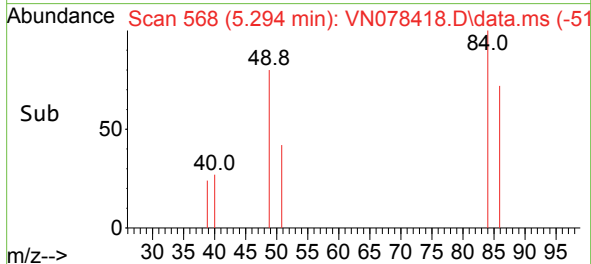
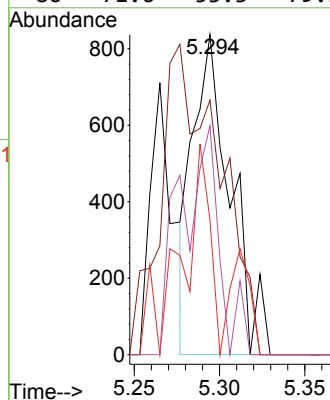
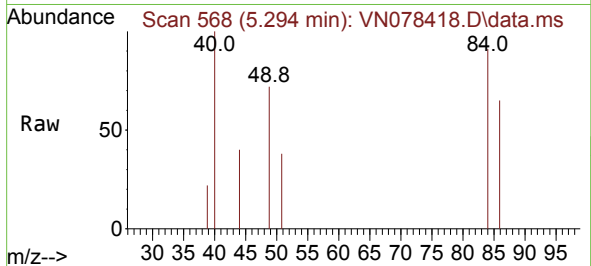




#20
Methylene Chloride
Concen: 0.227 ug/l
RT: 5.294 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

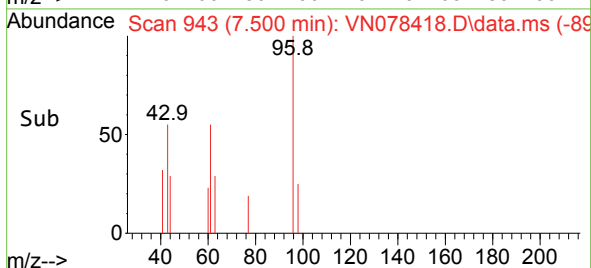
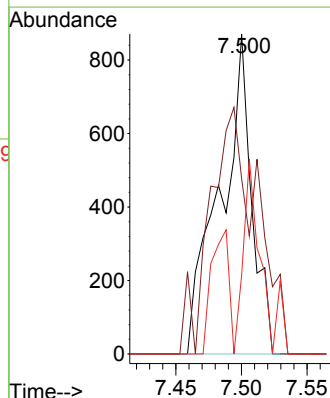
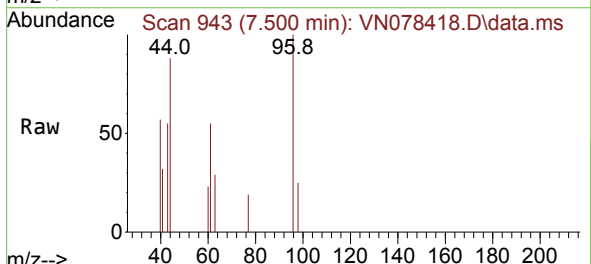
Instrument :
MSVOA_N
ClientSampleId :
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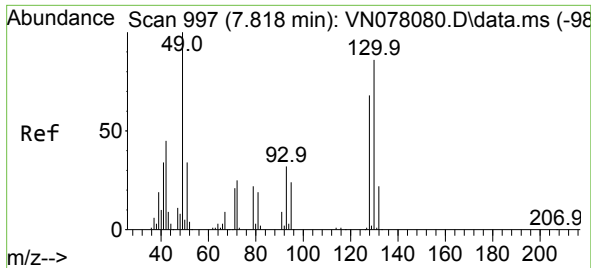
Tgt Ion:	84	Resp:	1287
Ion	Ratio	Lower	Upper
84	100		
49	79.6	79.7	119.5#
51	42.2	25.2	37.8#
86	71.6	53.3	79.9



#27
cis-1,2-Dichloroethene
Concen: 0.231 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

Tgt Ion:	96	Resp:	1452
Ion	Ratio	Lower	Upper
96	100		
61	115.5	0.0	255.2
98	35.4	0.0	128.8

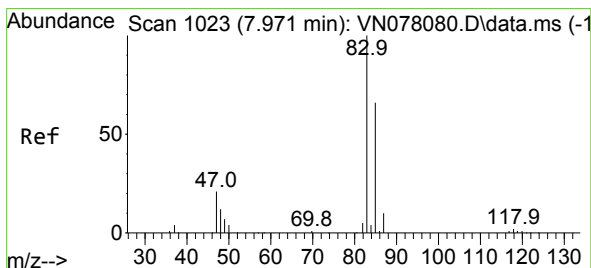
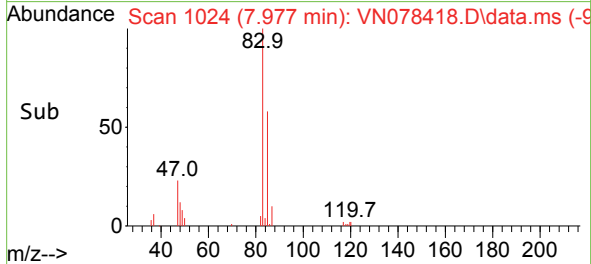
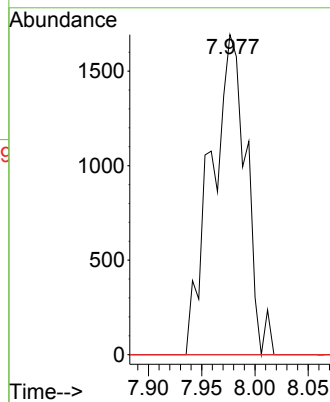
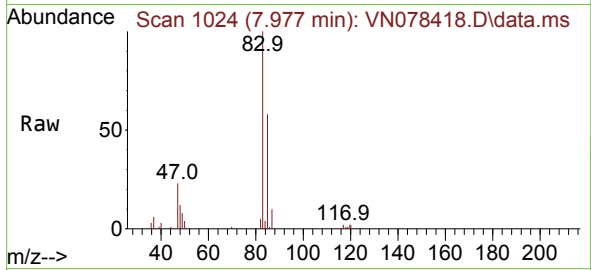




#28
Bromochloromethane
Concen: 0.912 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. 0.159 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

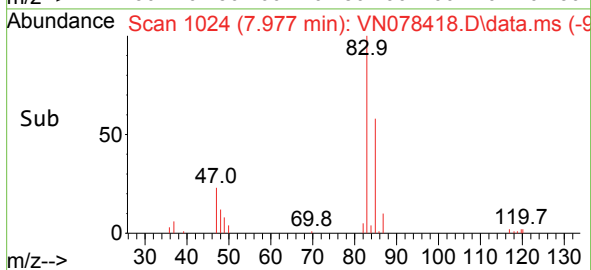
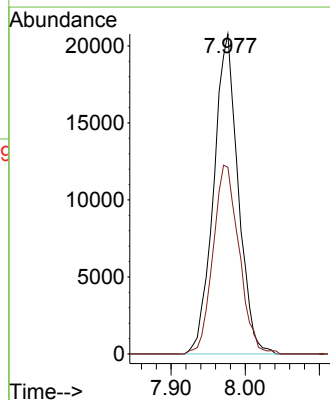
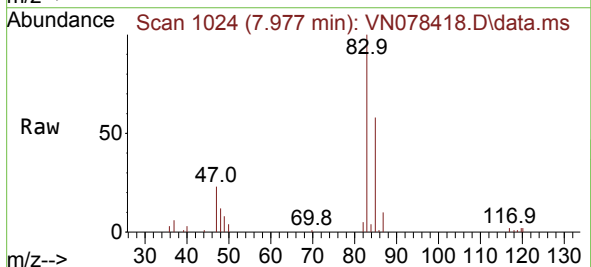
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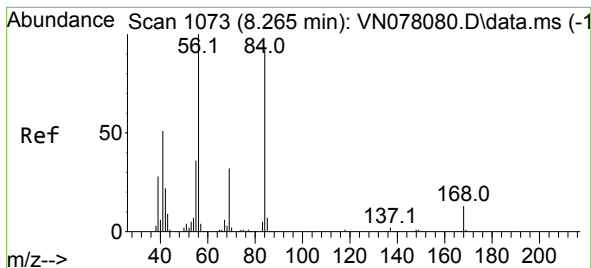
Tgt Ion: 49 Resp: 3876
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.8
130 0.0 75.3 112.9#



#30
Chloroform
Concen: 4.796 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. 0.006 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

Tgt Ion: 83 Resp: 47779
Ion Ratio Lower Upper
83 100
85 58.3 55.4 83.0





#31

Cyclohexane

Concen: 1.345 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN078418.D

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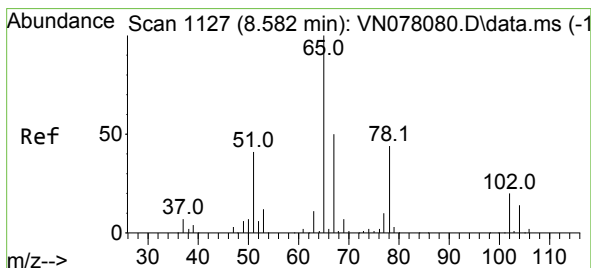
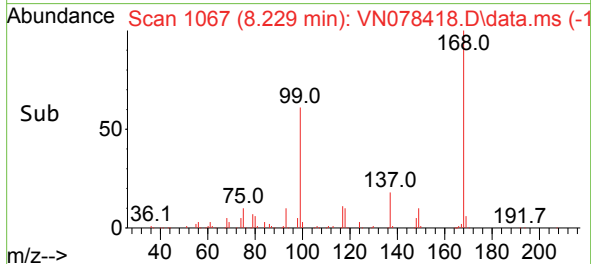
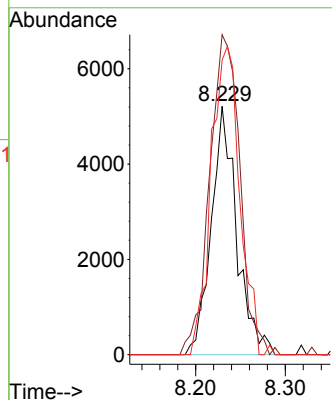
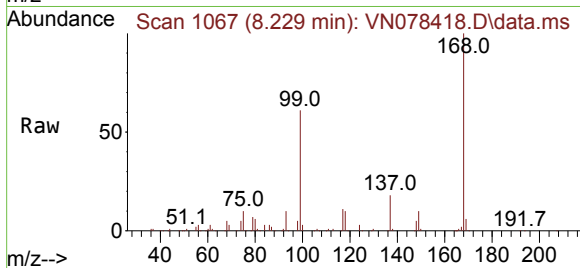
Tgt Ion: 56 Resp: 10290

Ion Ratio Lower Upper

56 100

69 128.9 26.8 40.2#

84 118.6 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 51.262 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN078418.D

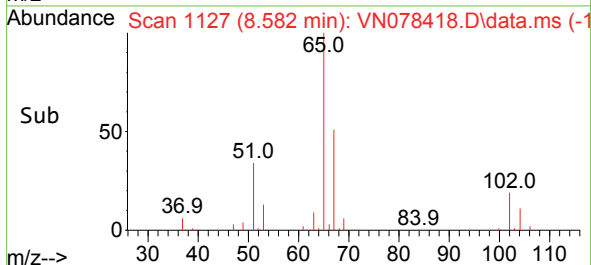
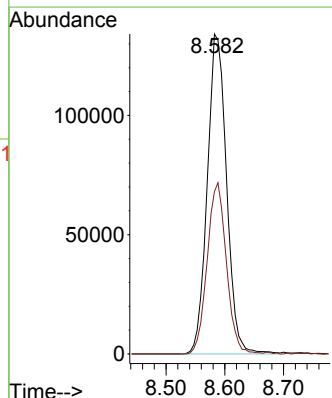
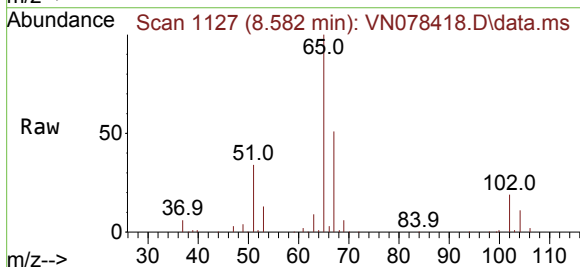
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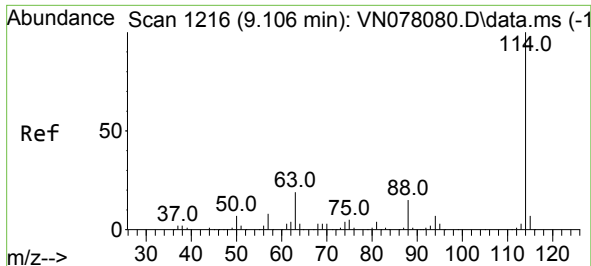
Tgt Ion: 65 Resp: 305703

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.6

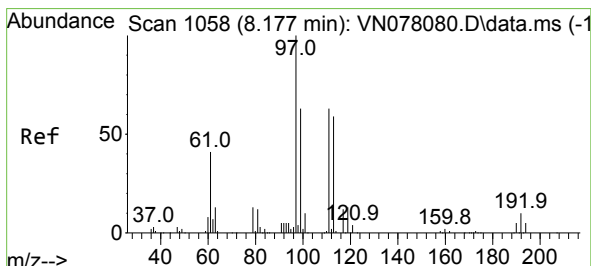
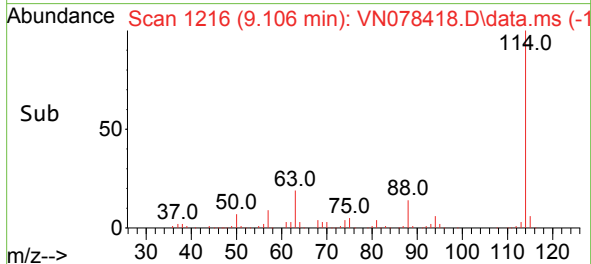
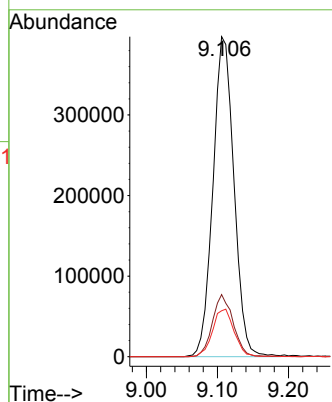
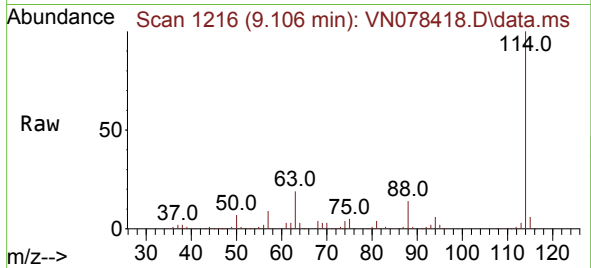




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

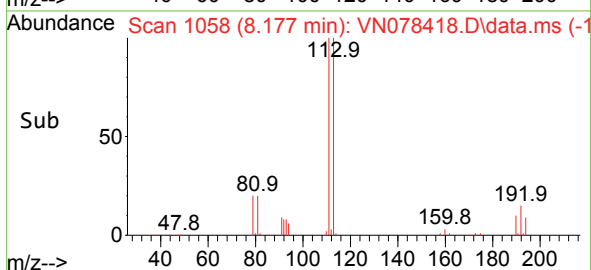
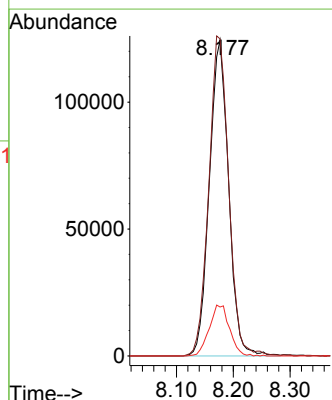
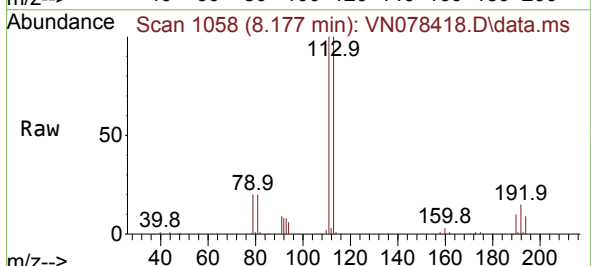
Instrument :
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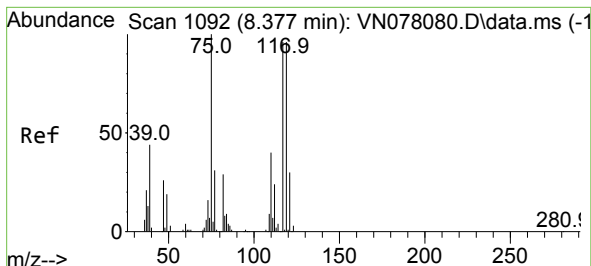
Tgt Ion:114 Resp: 814732
Ion Ratio Lower Upper
114 100
63 19.4 0.0 36.4
88 14.3 0.0 30.6



#35
Dibromofluoromethane
Concen: 56.776 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

Tgt Ion:113 Resp: 292476
Ion Ratio Lower Upper
113 100
111 104.7 82.6 123.8
192 17.0 12.7 19.1





#36

1,1-Dichloropropene

Concen: 5.145 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN078418.D

Acq: 27 Jun 2023 15:53

Instrument :

MSVOA_N

ClientSampleId :

TW-1

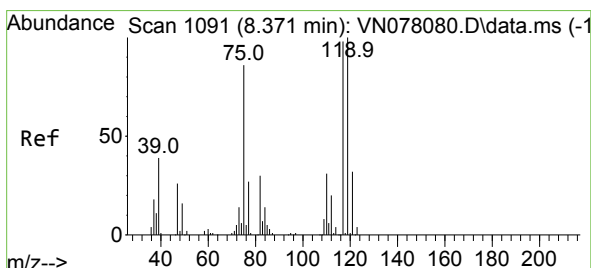
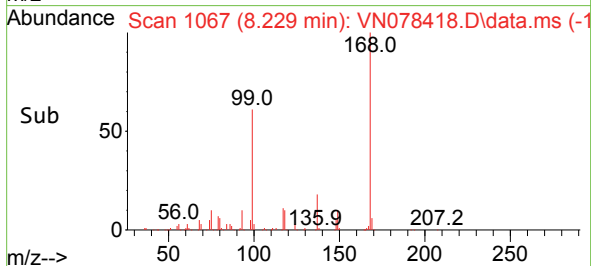
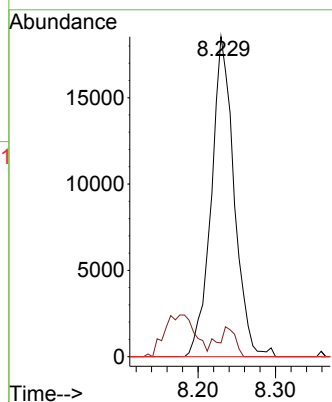
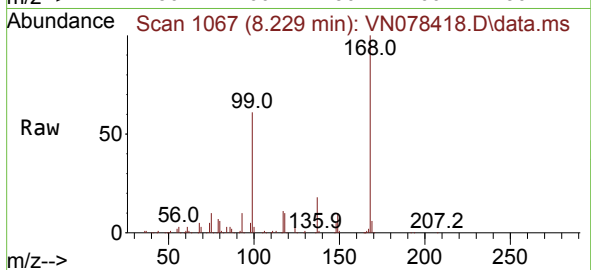
Tgt Ion: 75 Resp: 38016

Ion Ratio Lower Upper

75 100

110 7.2 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.196 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN078418.D

Acq: 27 Jun 2023 15:53

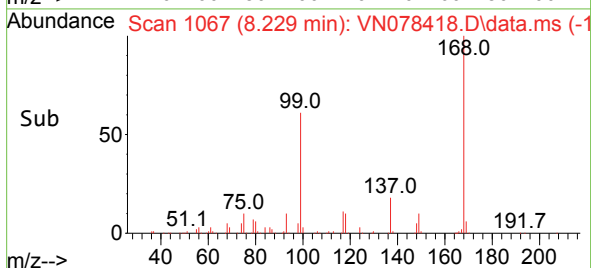
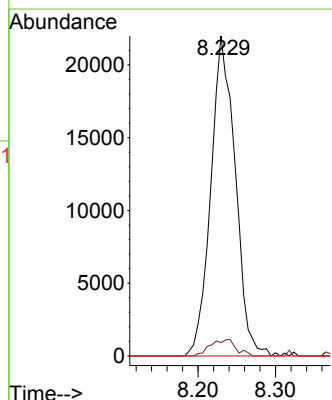
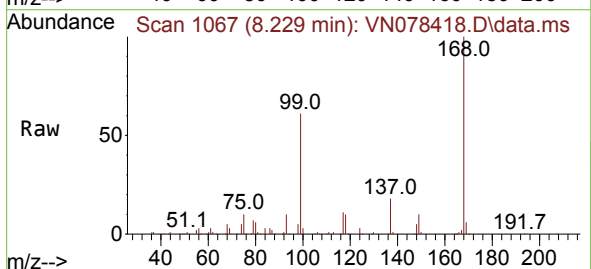
Tgt Ion: 117 Resp: 48341

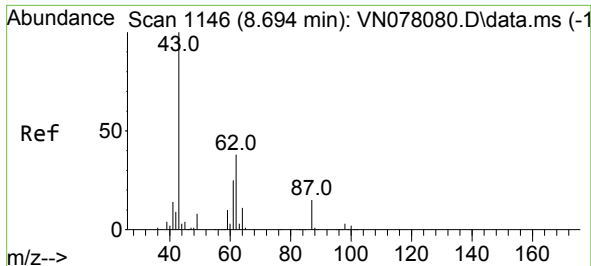
Ion Ratio Lower Upper

117 100

119 4.1 77.3 115.9#

121 0.0 23.3 34.9#

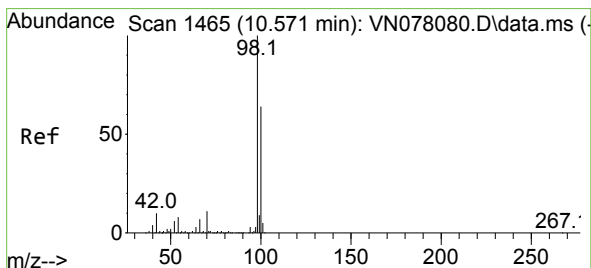
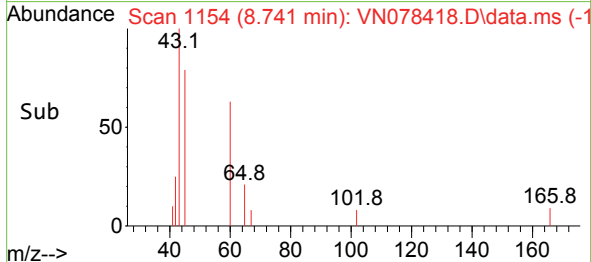
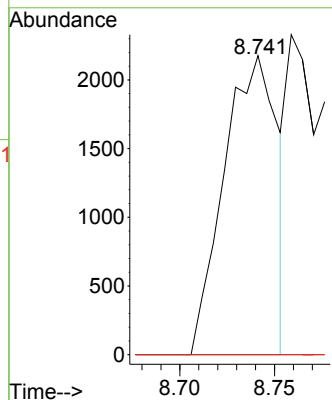
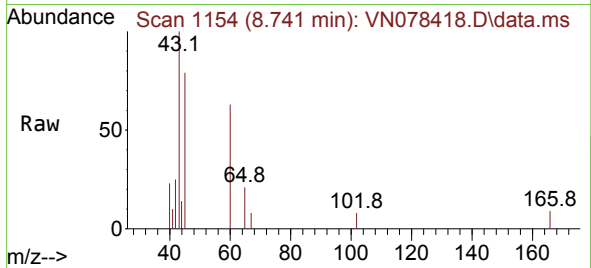




#43
Isopropyl Acetate
Concen: 0.386 ug/l
RT: 8.741 min Scan# 1146
Delta R.T. 0.047 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

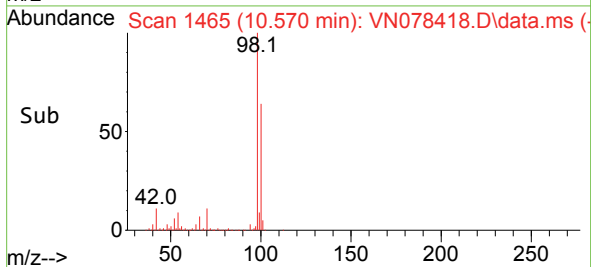
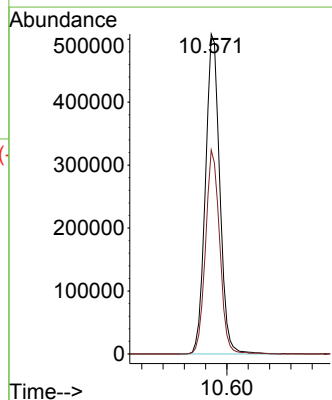
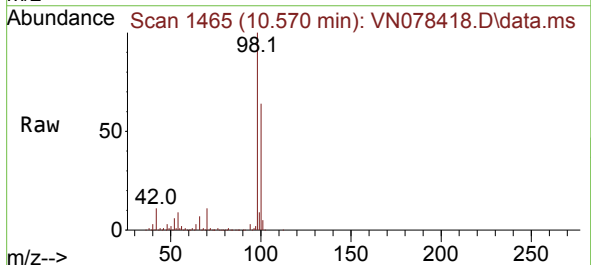
Instrument :
MSVOA_N
ClientSampleId :
TW-1

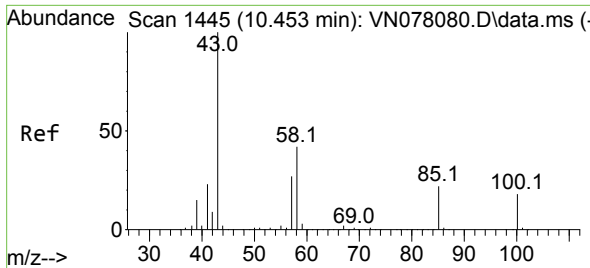
Tgt Ion: 43 Resp: 4259
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#50
Toluene-d8
Concen: 47.631 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

Tgt Ion: 98 Resp: 945929
Ion Ratio Lower Upper
98 100
100 63.0 52.0 78.0

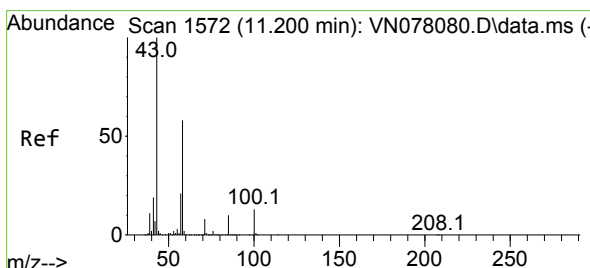
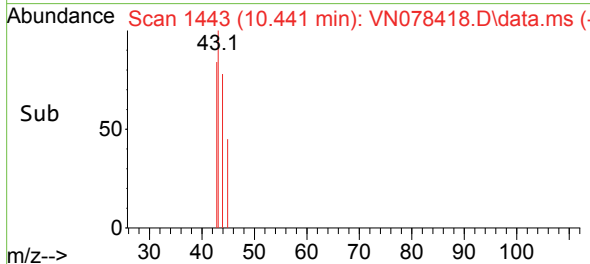
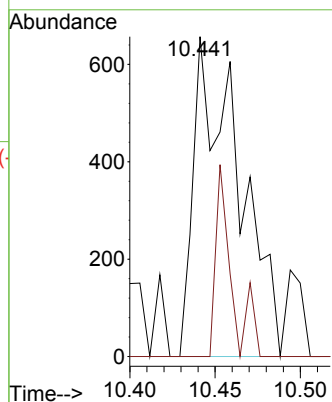
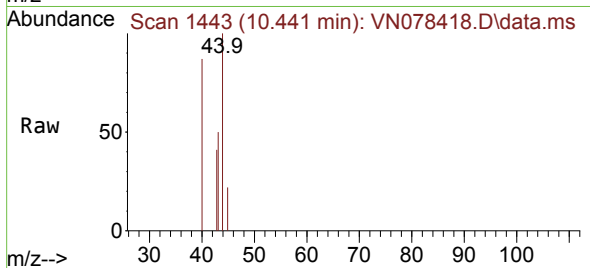




#51
4-Methyl-2-Pentanone
Concen: 0.208 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.012 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

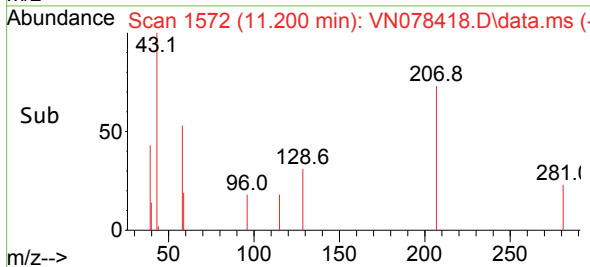
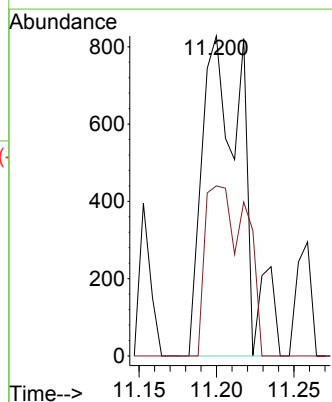
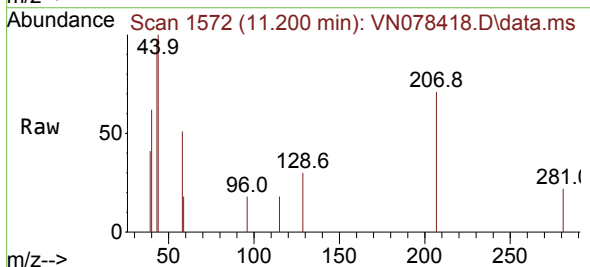
Instrument :
MSVOA_N
ClientSampleId :
TW-1

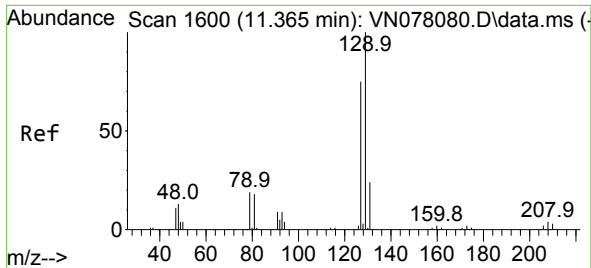
Tgt Ion: 43 Resp: 1209
Ion Ratio Lower Upper
43 100
58 20.9 36.6 54.8#



#59
2-Hexanone
Concen: 0.372 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. -0.000 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

Tgt Ion: 43 Resp: 1506
Ion Ratio Lower Upper
43 100
58 53.5 31.7 95.1

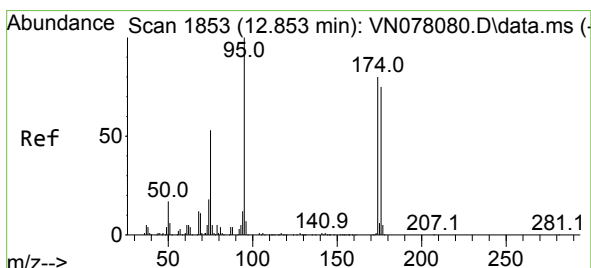
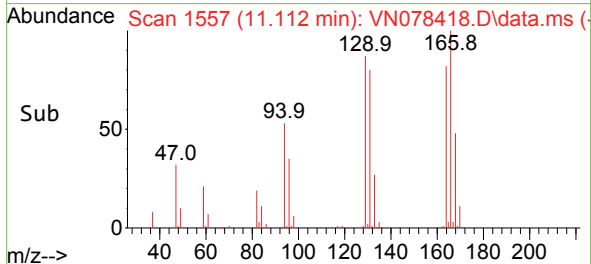
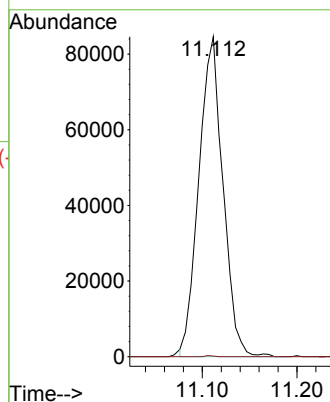
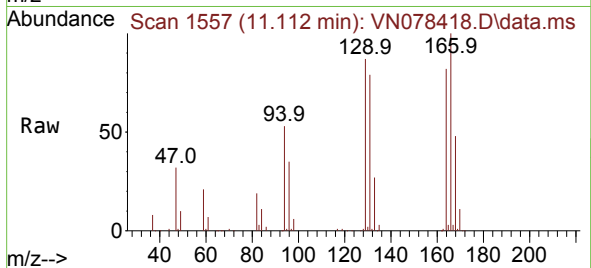




#60
Dibromochloromethane
Concen: 26.018 ug/l
RT: 11.112 min Scan# 1112
Delta R.T. -0.253 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

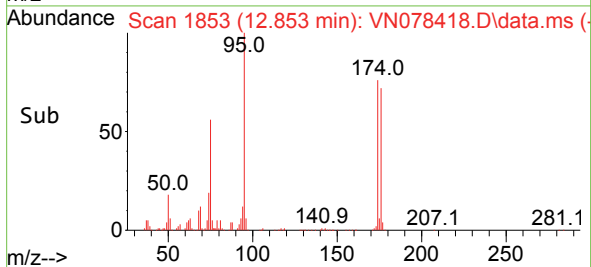
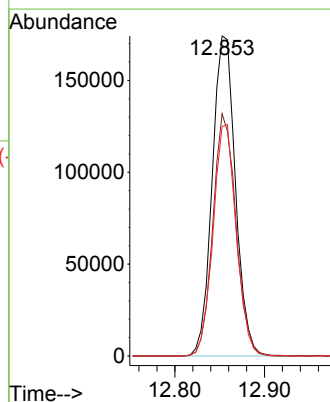
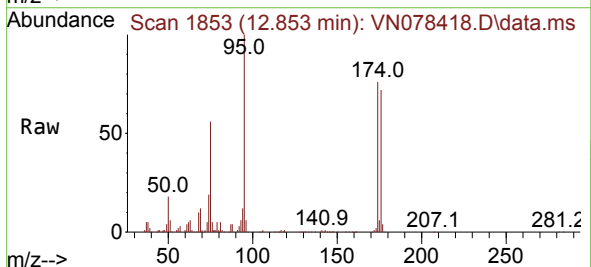
Instrument :
MSVOA_N
ClientSampleId :
TW-1

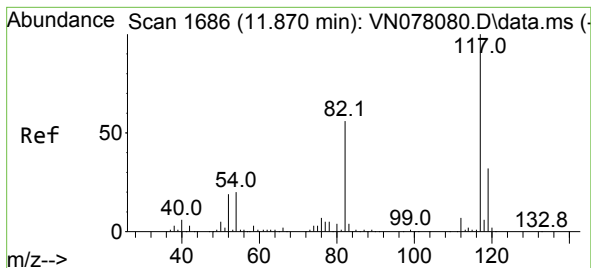
Tgt Ion:129 Resp: 150005
Ion Ratio Lower Upper
129 100
127 0.1 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 50.596 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

Tgt Ion: 95 Resp: 312367
Ion Ratio Lower Upper
95 100
174 75.3 0.0 143.8
176 72.3 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: VN078418.D

Acq: 27 Jun 2023 15:53

Instrument :

MSVOA_N

ClientSampleId :

TW-1

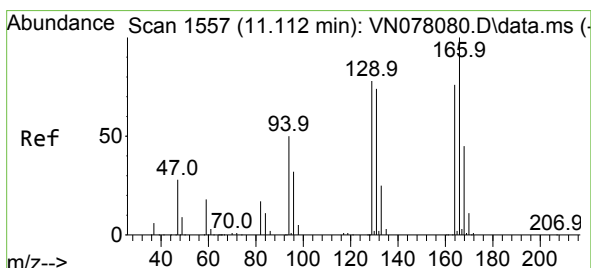
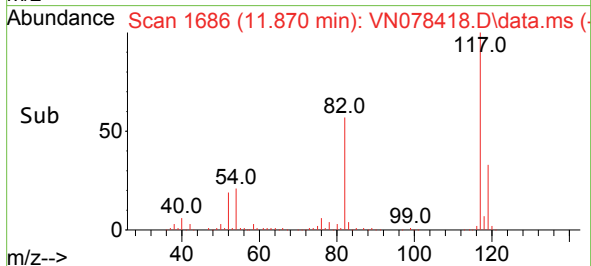
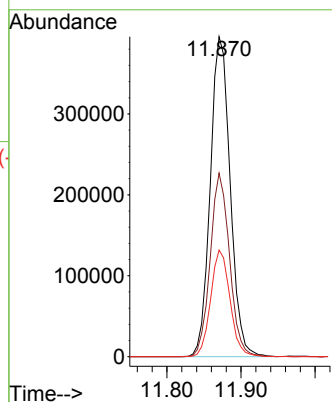
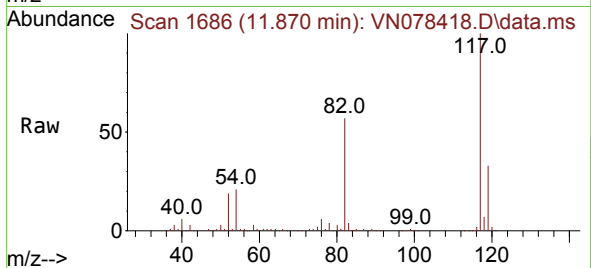
Tgt Ion:117 Resp: 737908

Ion Ratio Lower Upper

117 100

82 57.4 44.0 66.0

119 33.3 25.6 38.4



#64

Tetrachloroethene

Concen: 30.418 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. -0.006 min

Lab File: VN078418.D

Acq: 27 Jun 2023 15:53

Tgt Ion:164 Resp: 149742

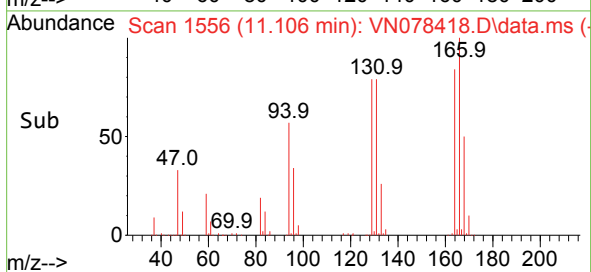
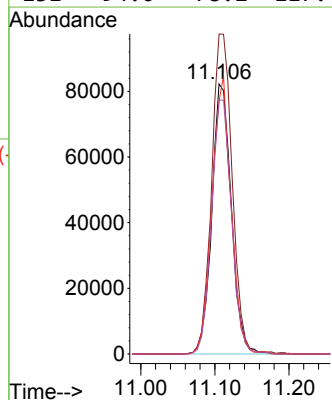
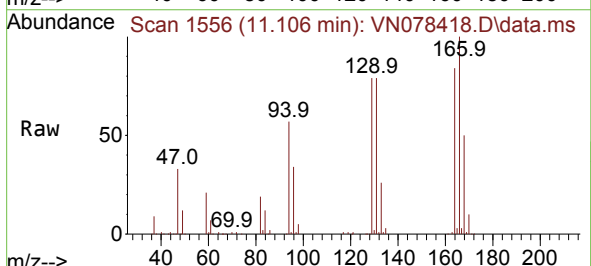
Ion Ratio Lower Upper

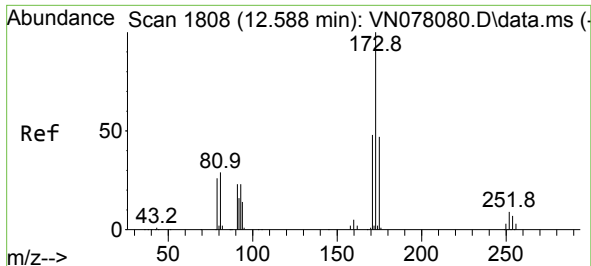
164 100

166 118.4 101.4 152.0

129 93.7 82.4 123.6

131 94.0 78.2 117.4

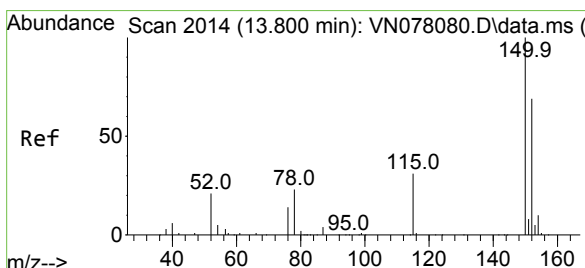
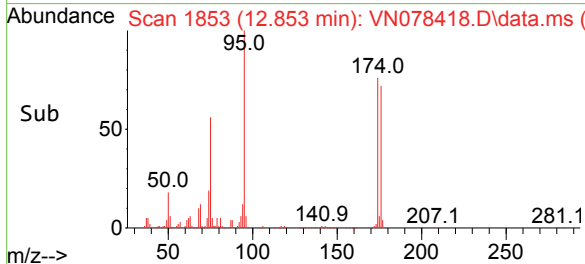
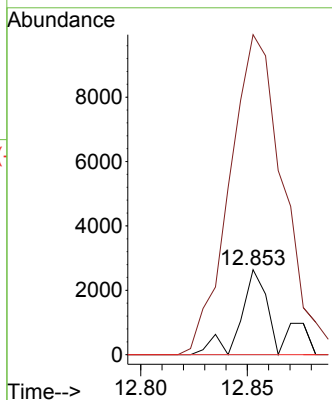
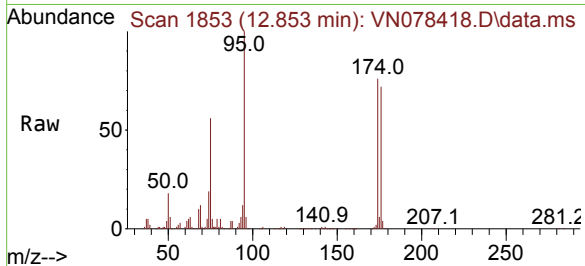




#71
Bromoform
Concen: 0.598 ug/l
RT: 12.853 min Scan# 1808
Delta R.T. 0.265 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

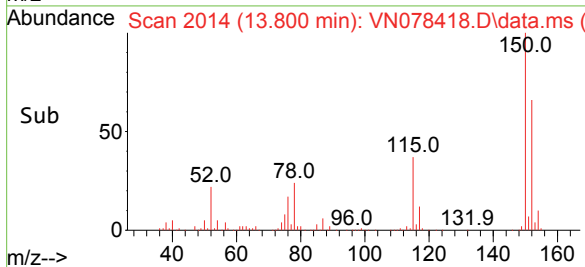
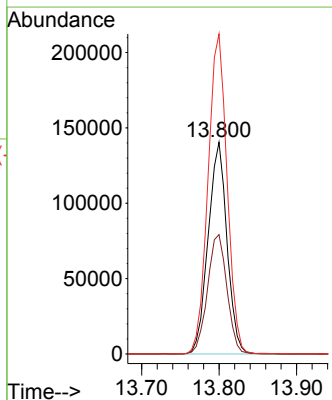
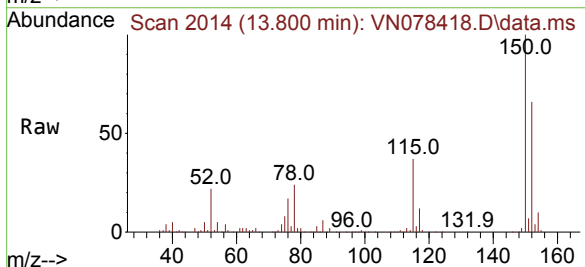
Instrument :
MSVOA_N
ClientSampleId :
TW-1

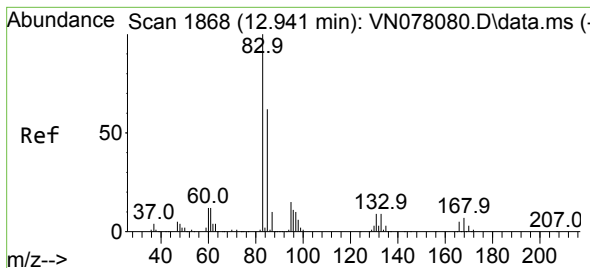
Tgt Ion:173 Resp: 2243
Ion Ratio Lower Upper
173 100
175 657.1 24.3 73.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.000 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

Tgt Ion:152 Resp: 237328
Ion Ratio Lower Upper
152 100
115 58.3 32.3 96.8
150 152.9 0.0 355.8





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.953 min Scan# 1868

Delta R.T. 0.012 min

Lab File: VN078418.D

Acq: 27 Jun 2023 15:53

Instrument :

MSVOA_N

ClientSampleId :

TW-1

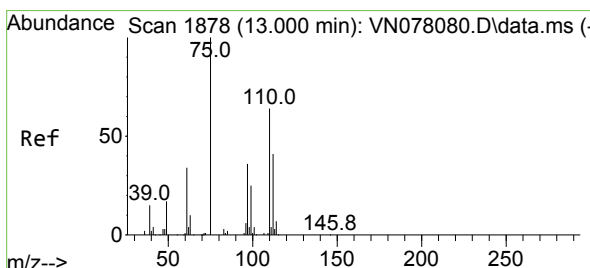
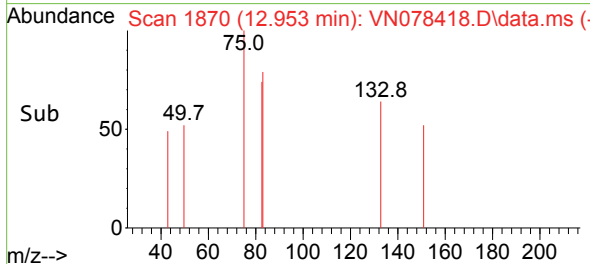
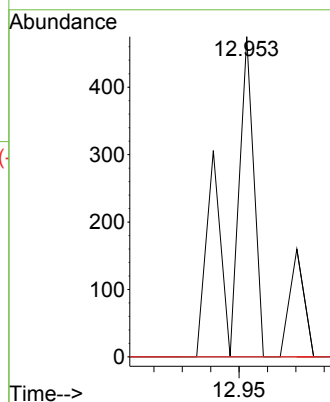
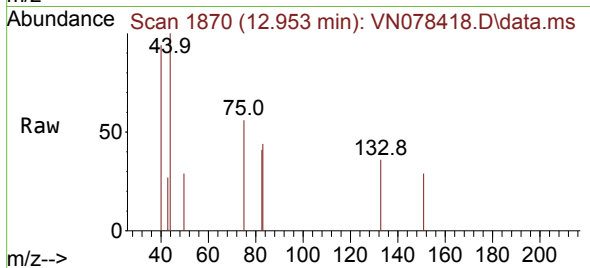
Tgt Ion: 83 Resp: 276

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: 29.193 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078418.D

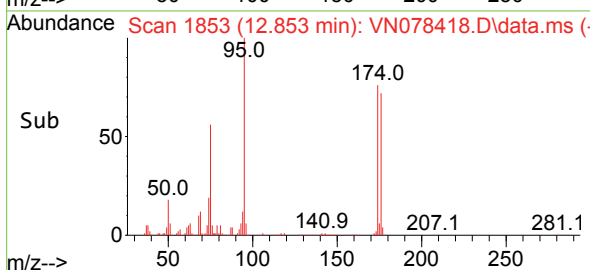
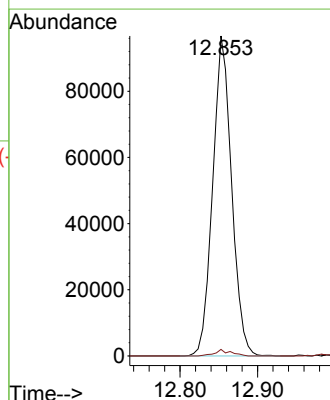
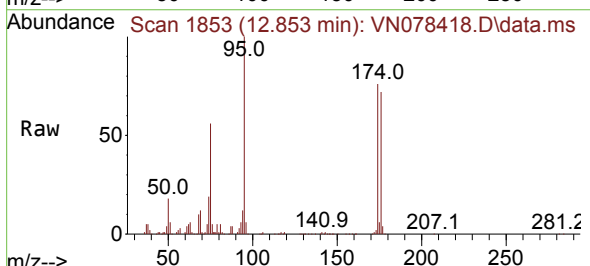
Acq: 27 Jun 2023 15:53

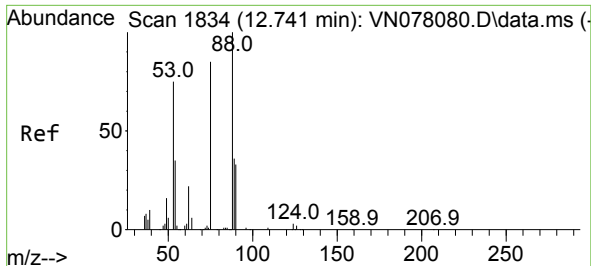
Tgt Ion: 75 Resp: 163789

Ion Ratio Lower Upper

75 100

77 1.7 84.5 253.5#

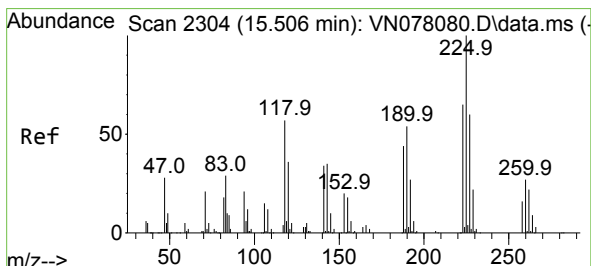
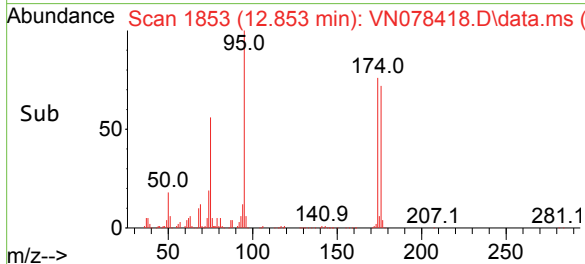
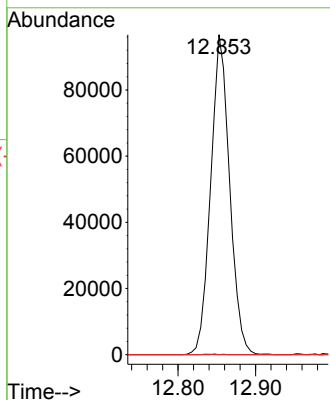
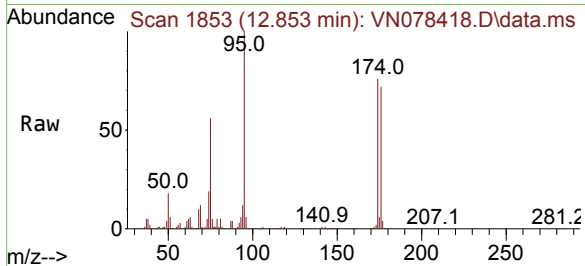




#81
trans-1,4-Dichloro-2-butene
Concen: 89.691 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

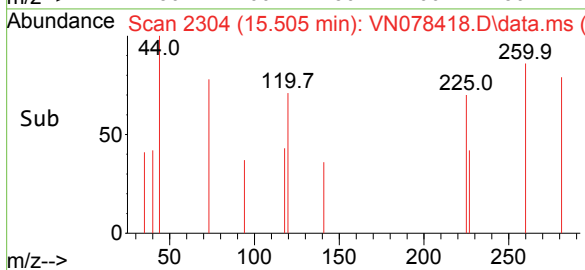
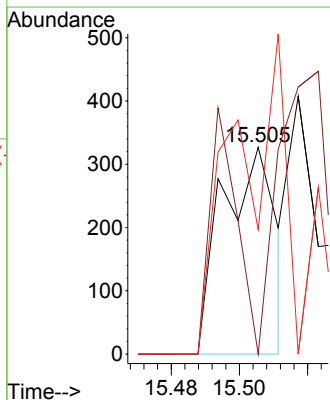
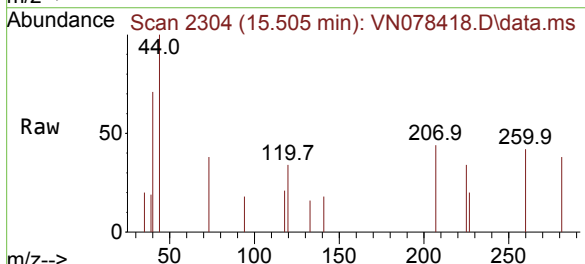
Instrument :
MSVOA_N
ClientSampleId :
TW-1

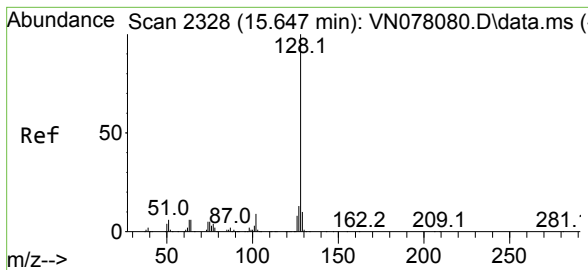
Tgt Ion: 75 Resp: 163789
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.1 38.8 58.2#



#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.505 min Scan# 2304
Delta R.T. -0.001 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

Tgt Ion: 225 Resp: 358
Ion Ratio Lower Upper
225 100
223 117.6 31.3 93.8#
227 163.1 31.9 95.9#





#95
Naphthalene
Concen: 0.321 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN078418.D
Acq: 27 Jun 2023 15:53

Instrument :
MSVOA_N
ClientSampleId :
TW-1

Tgt Ion:	128	Resp:	3311
Ion	Ratio	Lower	Upper
128	100		
127	4.4	10.0	15.0#
129	0.0	8.7	13.1#

