

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110223\
 Data File : VN079823.D
 Acq On : 03 Nov 2023 04:22
 Operator : JC\MD
 Sample : 05222-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FSND-MW-28-20231101

Quant Time: Nov 03 05:40:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N110123W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 02 05:49:08 2023
 Response via : Initial Calibration

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

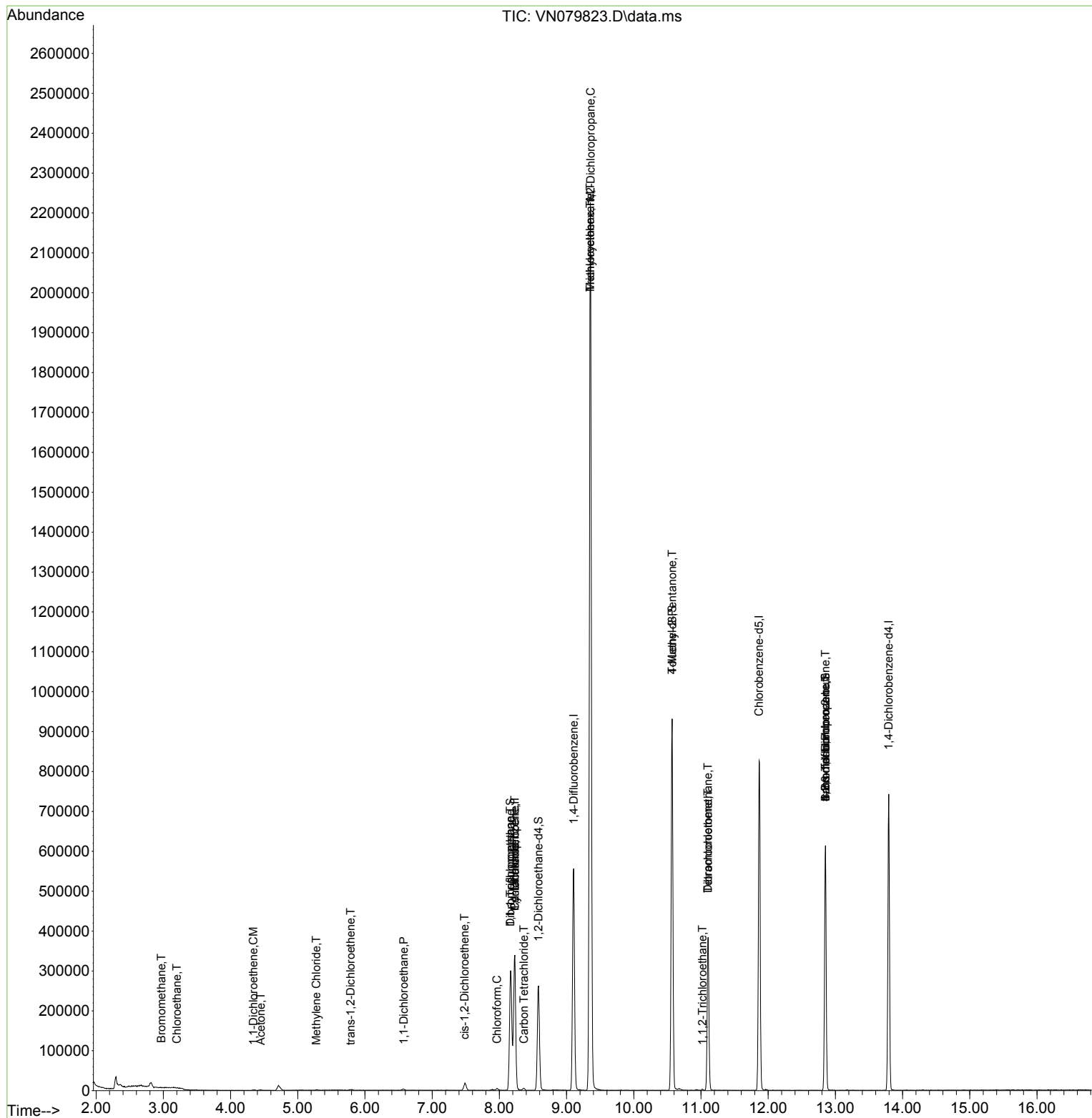
Internal Standards						
1) Pentafluorobenzene	8.230	168	233402	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	462784	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	476301	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	185827	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	213196	59.955	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 119.900%			
35) Dibromofluoromethane	8.165	113	176955	54.025	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.060%			
50) Toluene-d8	10.571	98	620766	51.482	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.960%			
62) 4-Bromofluorobenzene	12.853	95	200298	50.087	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 100.180%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.353	50	1931	Below Cal	#	84
5) Bromomethane	2.971	94	700	0.313	ug/l #	63
6) Chloroethane	3.200	64	3637	1.251	ug/l #	43
12) 1,1-Dichloroethene	4.342	96	635	0.253	ug/l	82
16) Acetone	4.447	43	2184	1.749	ug/l	98
20) Methylene Chloride	5.277	84	811	0.257	ug/l #	59
21) trans-1,2-Dichloroethene	5.789	96	1245	0.444	ug/l	93
24) 1,1-Dichloroethane	6.577	63	4361	0.805	ug/l #	81
27) cis-1,2-Dichloroethene	7.483	96	10537	3.144	ug/l	98
30) Chloroform	7.965	83	3859	0.655	ug/l #	60
31) Cyclohexane	8.230	56	6186	1.316	ug/l #	45
32) 1,1,1-Trichloroethane	8.165	97	44565	9.290	ug/l	94
36) 1,1-Dichloropropene	8.230	75	21743	4.649	ug/l #	46
38) Carbon Tetrachloride	8.365	117	3658	0.776	ug/l #	92
39) Methylcyclohexane	9.353	83	10668	2.424	ug/l #	1
44) Trichloroethene	9.353	130	766178	220.428	ug/l	96
45) 1,2-Dichloropropane	9.359	63	2950	0.824	ug/l #	1
51) 4-Methyl-2-Pentanone	10.571	43	2861	0.676	ug/l #	1
55) 1,1,2-Trichloroethane	11.024	97	840	0.251	ug/l #	77
60) Dibromochloromethane	11.106	129	81124	22.690	ug/l #	11
64) Tetrachloroethene	11.106	164	84582	27.419	ug/l	93
71) Bromoform	12.853	173	1927	0.729	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	112847	25.866	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	112847	70.377	ug/l #	15

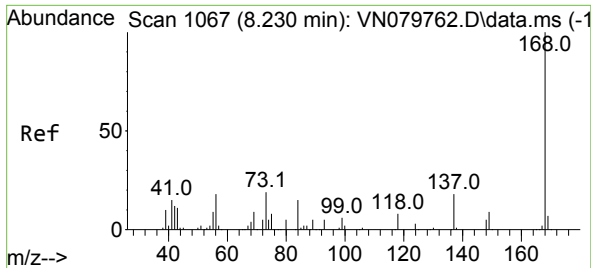
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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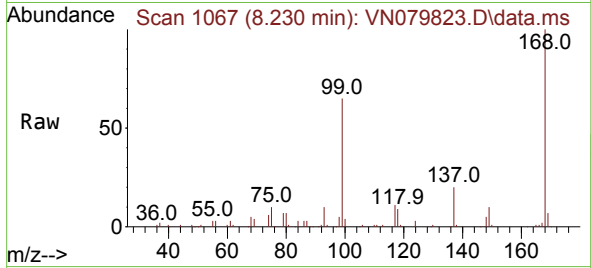
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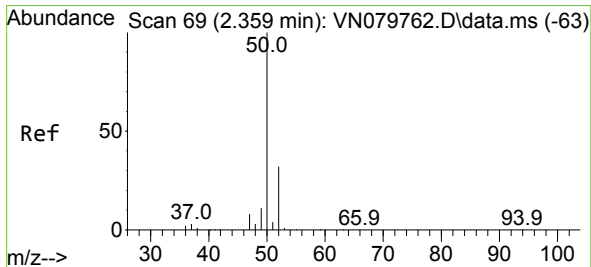
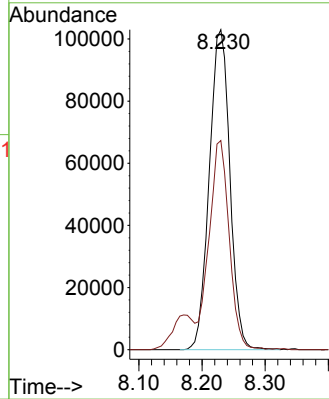
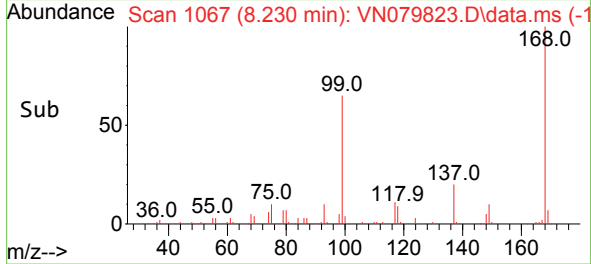


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. 0.001 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

Instrument :
MSVOA_N
ClientSampleId :
FSND-MW-28-20231101

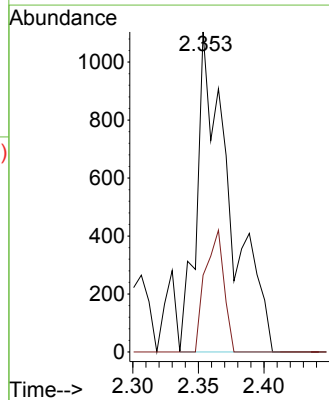
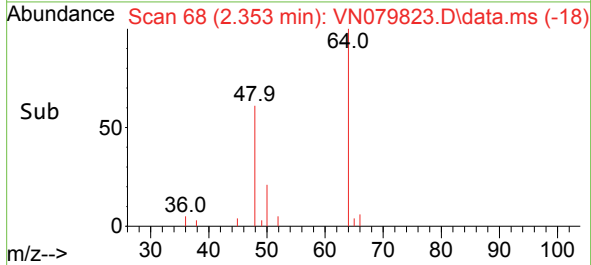
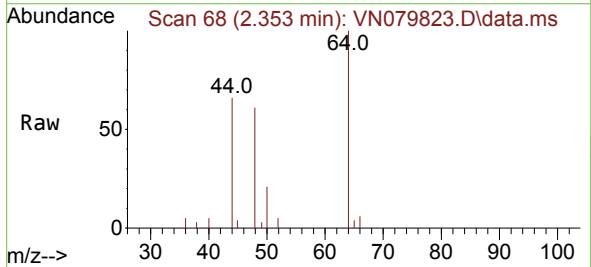


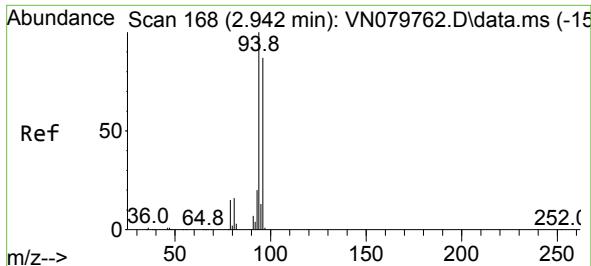
Tgt Ion:168 Resp: 233402
Ion Ratio Lower Upper
168 100
99 65.1 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.353 min Scan# 68
Delta R.T. -0.006 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

Tgt Ion: 50 Resp: 1931
Ion Ratio Lower Upper
50 100
52 24.0 26.5 39.7#

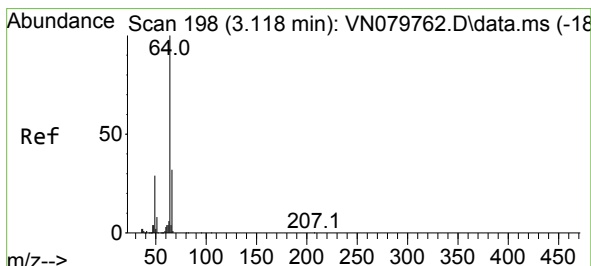
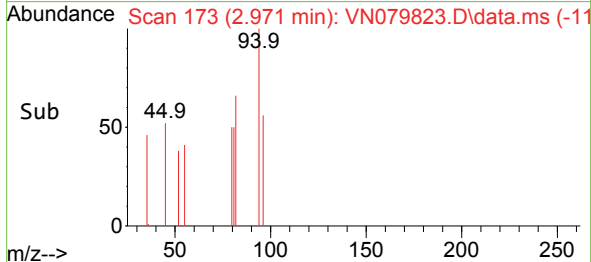
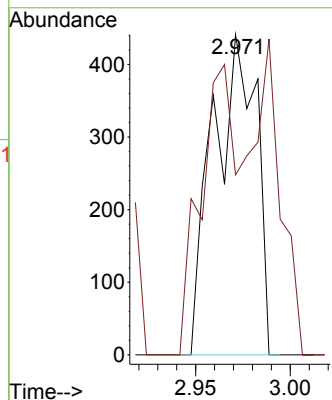
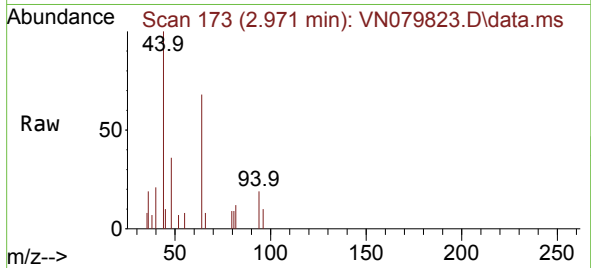




#5
Bromomethane
Concen: 0.313 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

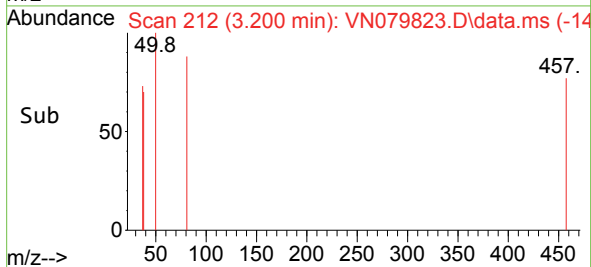
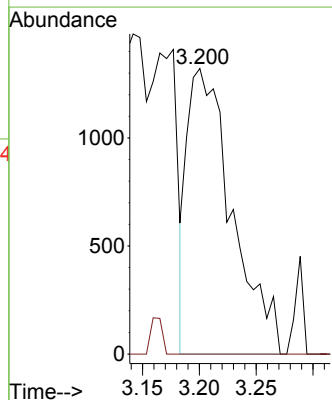
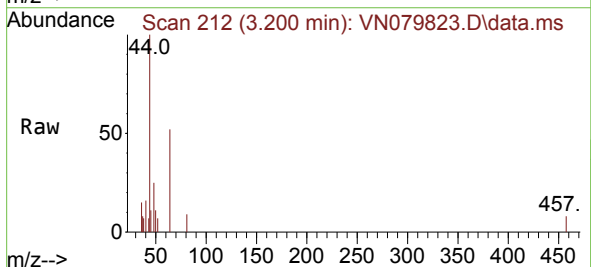
Instrument :
MSVOA_N
ClientSampleId :
FSND-MW-28-20231101

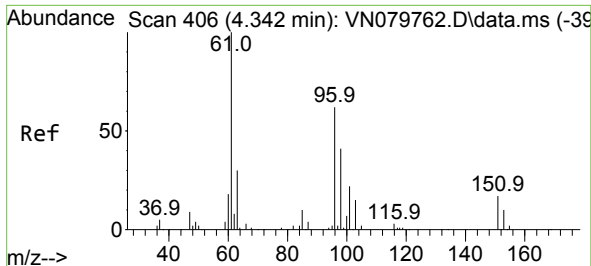
Tgt Ion: 94 Resp: 700
Ion Ratio Lower Upper
94 100
96 56.2 73.1 109.7#



#6
Chloroethane
Concen: 1.251 ug/l
RT: 3.200 min Scan# 212
Delta R.T. 0.082 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

Tgt Ion: 64 Resp: 3637
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#





#12

1,1-Dichloroethene

Concen: 0.253 ug/l

RT: 4.342 min Scan# 406

Delta R.T. -0.006 min

Lab File: VN079823.D

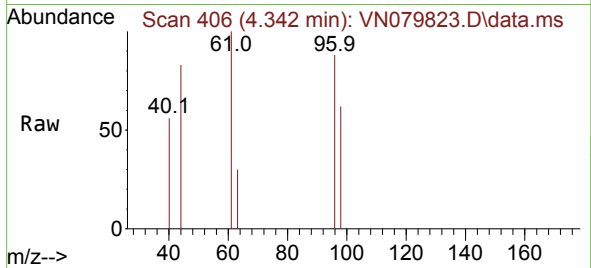
Acq: 03 Nov 2023 04:22

Instrument :

MSVOA_N

ClientSampleId :

FSND-MW-28-20231101



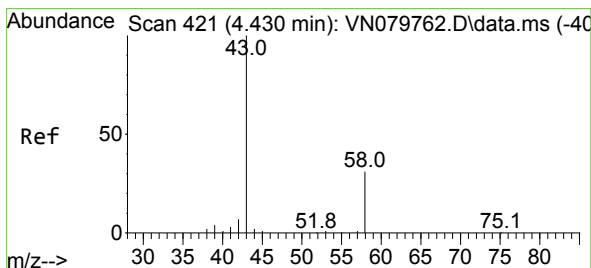
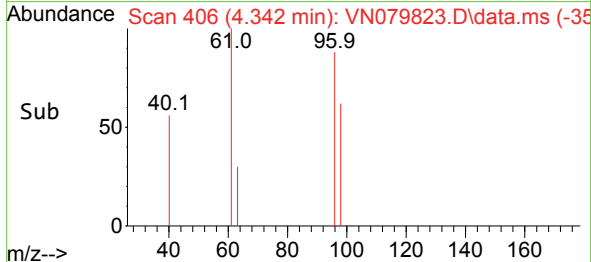
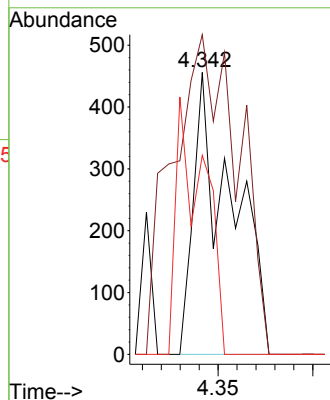
Tgt Ion: 96 Resp: 635

Ion Ratio Lower Upper

96 100

61 113.4 112.7 169.1

98 70.6 51.2 76.8



#16

Acetone

Concen: 1.749 ug/l

RT: 4.447 min Scan# 424

Delta R.T. 0.018 min

Lab File: VN079823.D

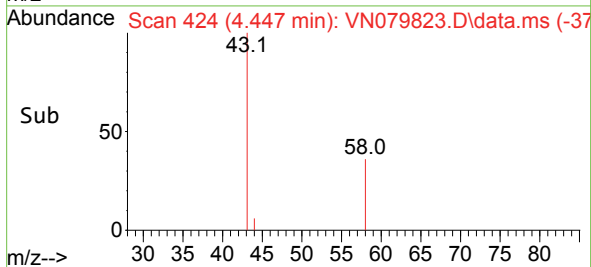
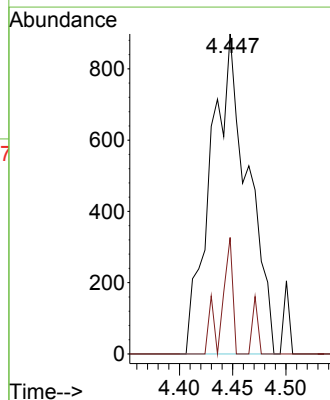
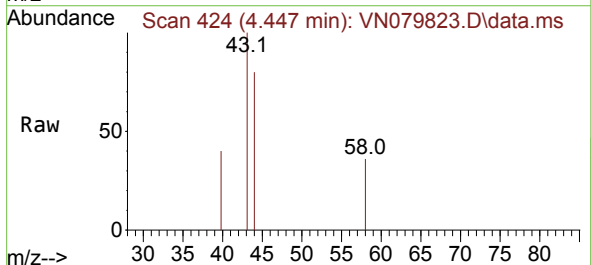
Acq: 03 Nov 2023 04:22

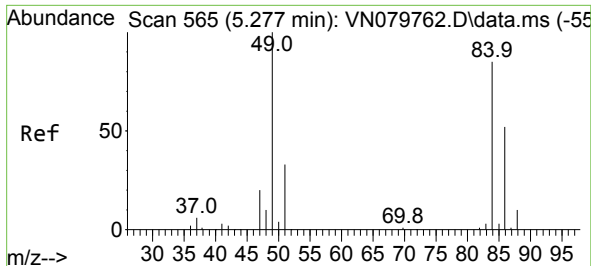
Tgt Ion: 43 Resp: 2184

Ion Ratio Lower Upper

43 100

58 36.4 28.0 42.0

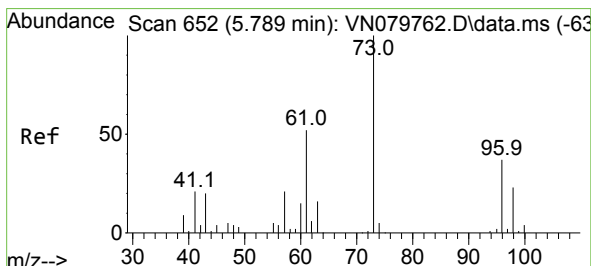
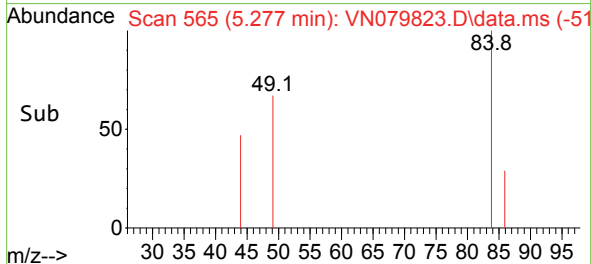
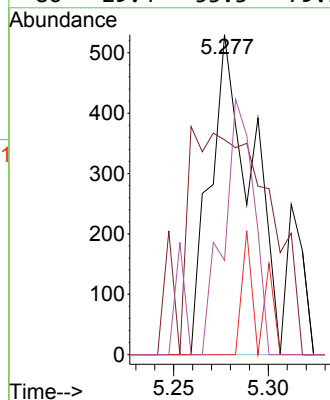
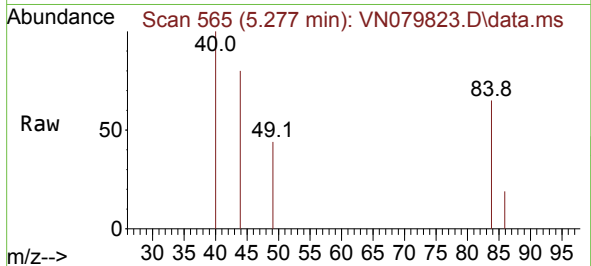




#20
Methylene Chloride
Concen: 0.257 ug/l
RT: 5.277 min Scan# 501
Delta R.T. 0.006 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

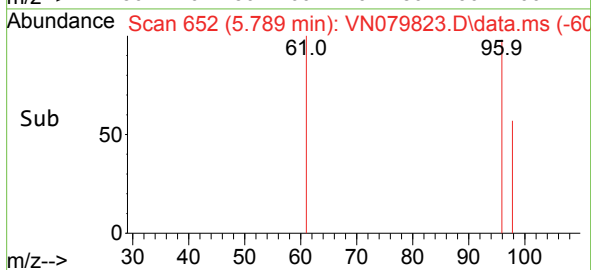
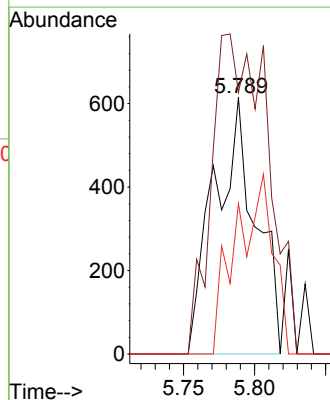
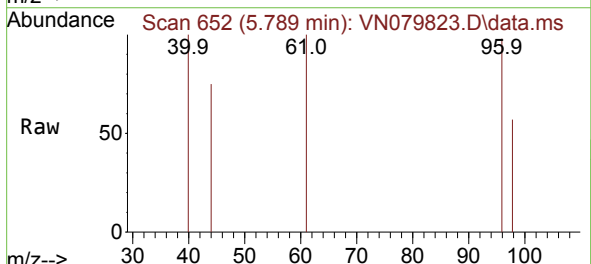
Instrument :
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ClientSampleId :
FSND-MW-28-20231101

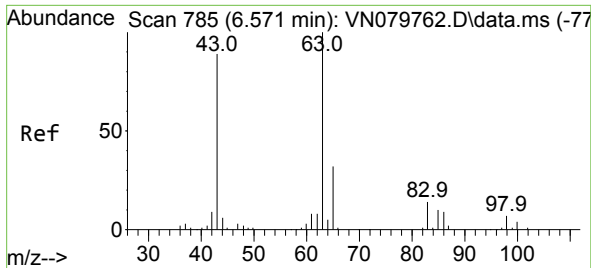
Tgt Ion: 84 Resp: 811
Ion Ratio Lower Upper
84 100
49 67.2 79.7 119.5#
51 0.0 25.2 37.8#
86 29.4 53.3 79.9#



#21
trans-1,2-Dichloroethene
Concen: 0.444 ug/l
RT: 5.789 min Scan# 652
Delta R.T. 0.006 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

Tgt Ion: 96 Resp: 1245
Ion Ratio Lower Upper
96 100
61 102.0 90.1 135.1
98 58.5 46.4 69.6





#24

1,1-Dichloroethane

Concen: 0.805 ug/l

RT: 6.577 min Scan# 7

Delta R.T. 0.006 min

Lab File: VN079823.D

Acq: 03 Nov 2023 04:22

Instrument :

MSVOA_N

ClientSampleId :

FSND-MW-28-20231101

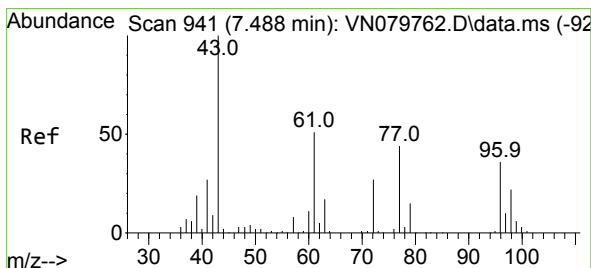
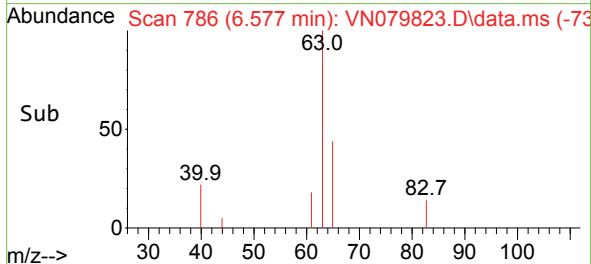
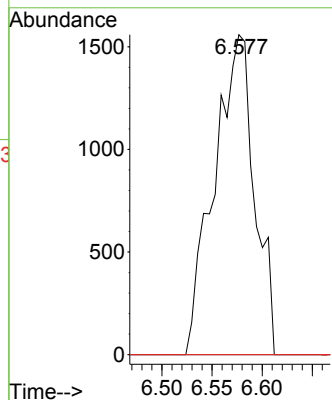
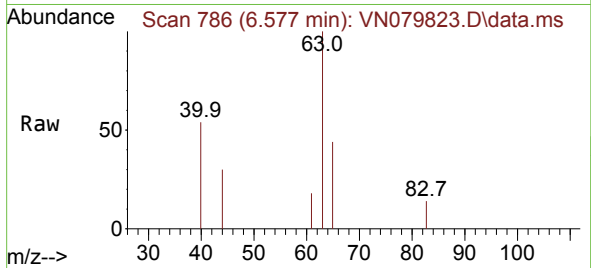
Tgt Ion: 63 Resp: 4361

Ion Ratio Lower Upper

63 100

98 0.0 3.9 11.7#

100 0.0 2.5 7.4#



#27

cis-1,2-Dichloroethene

Concen: 3.144 ug/l

RT: 7.483 min Scan# 940

Delta R.T. -0.006 min

Lab File: VN079823.D

Acq: 03 Nov 2023 04:22

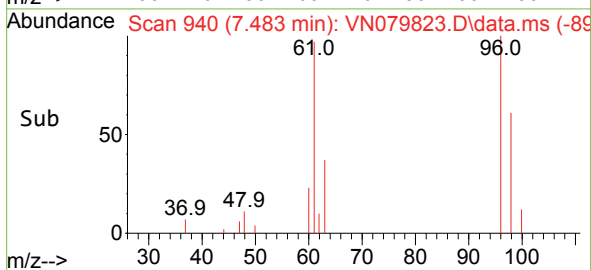
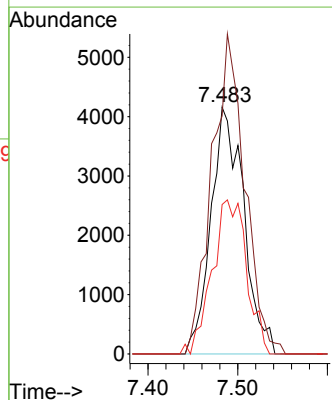
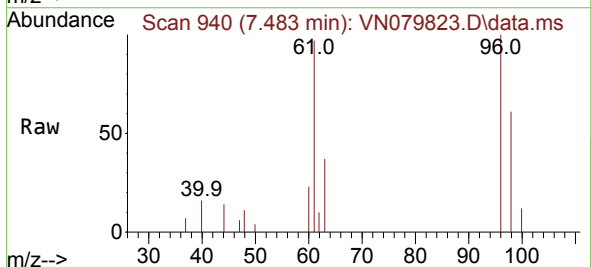
Tgt Ion: 96 Resp: 10537

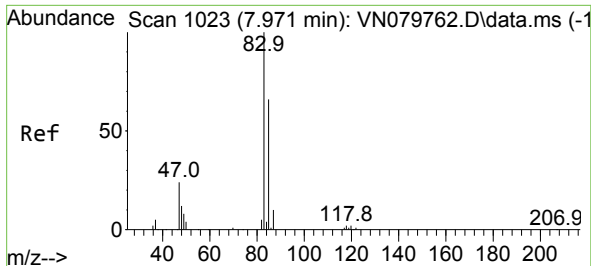
Ion Ratio Lower Upper

96 100

61 130.6 0.0 255.2

98 65.7 0.0 128.8





#30

Chloroform

Concen: 0.655 ug/l

RT: 7.965 min Scan# 1067

Delta R.T. -0.006 min

Lab File: VN079823.D

Acq: 03 Nov 2023 04:22

Instrument :

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ClientSampleId :

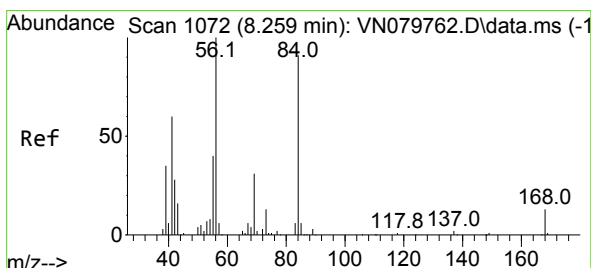
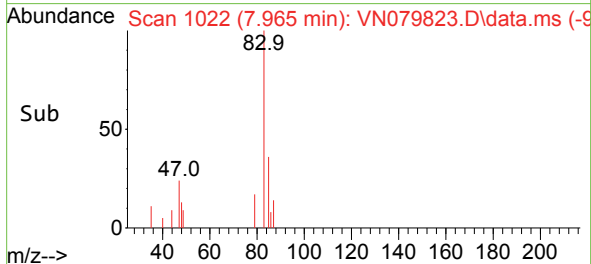
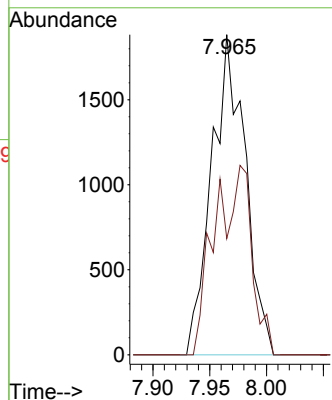
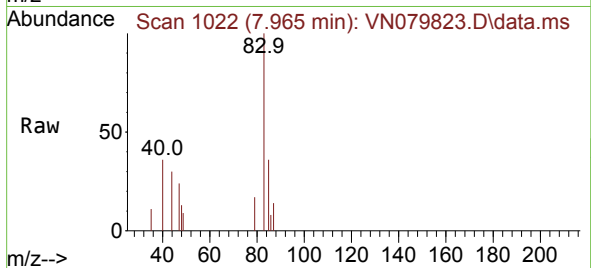
FSND-MW-28-20231101

Tgt Ion: 83 Resp: 3859

Ion Ratio Lower Upper

83 100

85 36.3 55.4 83.0#



#31

Cyclohexane

Concen: 1.316 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.029 min

Lab File: VN079823.D

Acq: 03 Nov 2023 04:22

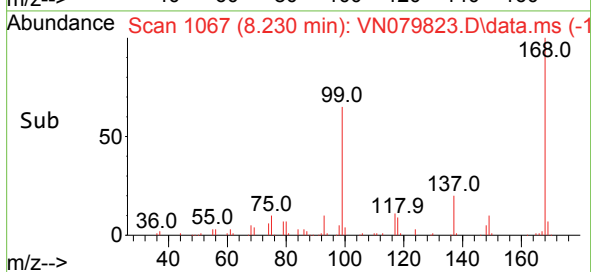
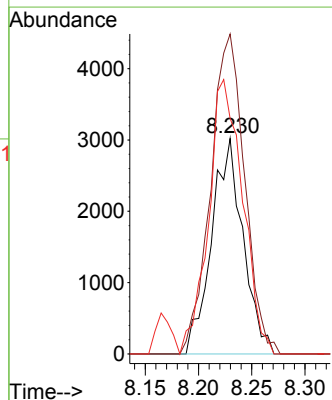
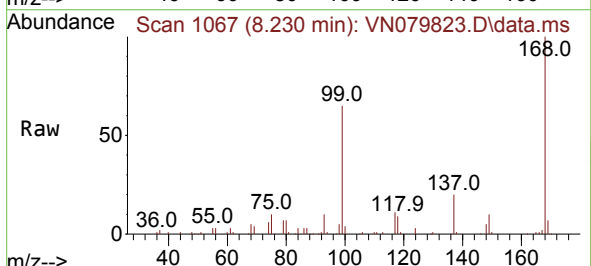
Tgt Ion: 56 Resp: 6186

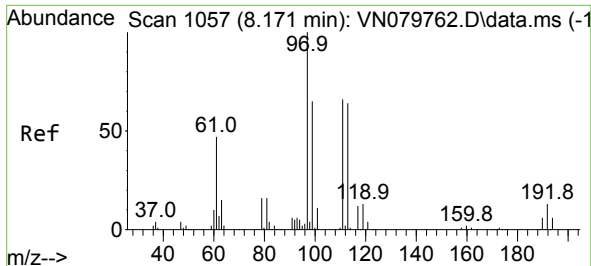
Ion Ratio Lower Upper

56 100

69 148.4 26.8 40.2#

84 109.3 81.8 122.6





#32

1,1,1-Trichloroethane

Concen: 9.290 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.006 min

Lab File: VN079823.D

Acq: 03 Nov 2023 04:22

Instrument :

MSVOA_N

ClientSampleId :

FSND-MW-28-20231101

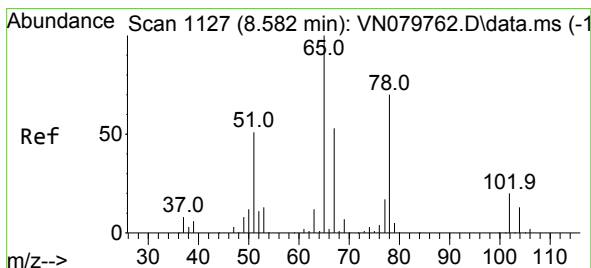
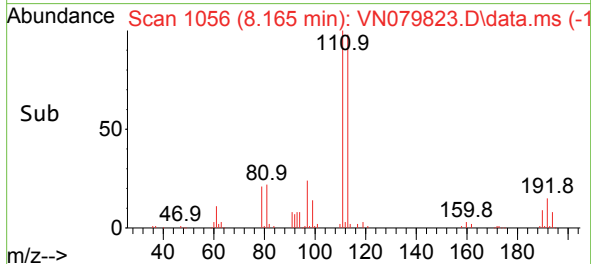
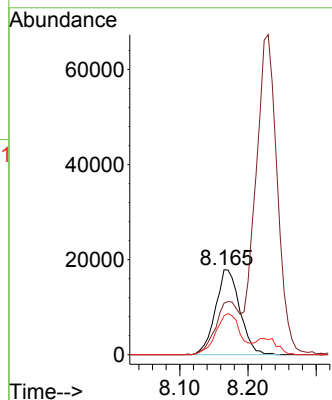
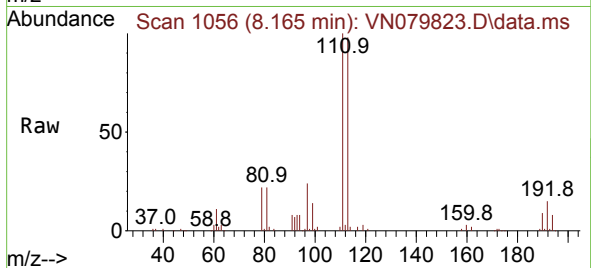
Tgt Ion: 97 Resp: 44565

Ion Ratio Lower Upper

97 100

99 59.4 50.3 75.5

61 49.3 34.7 52.1



#33

1,2-Dichloroethane-d4

Concen: 59.955 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079823.D

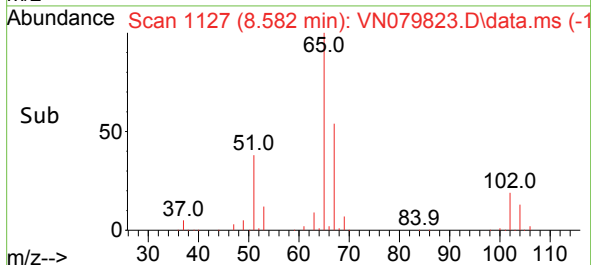
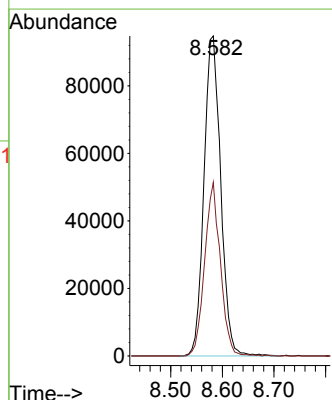
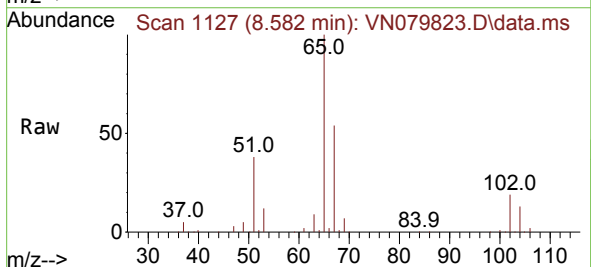
Acq: 03 Nov 2023 04:22

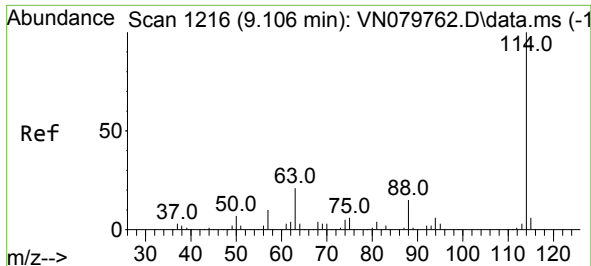
Tgt Ion: 65 Resp: 213196

Ion Ratio Lower Upper

65 100

67 51.1 0.0 106.6

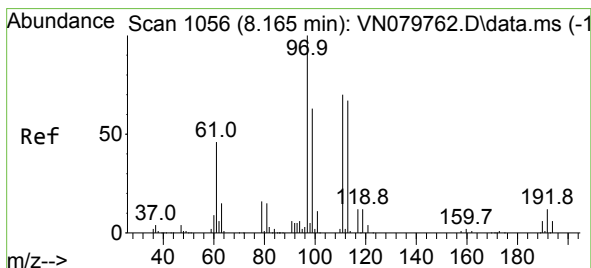
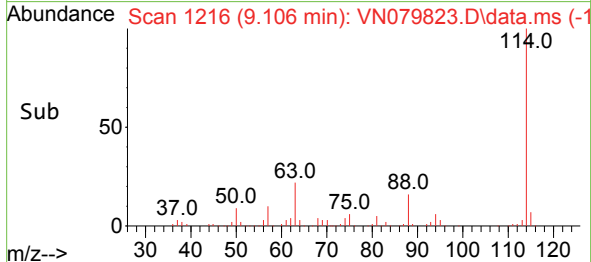
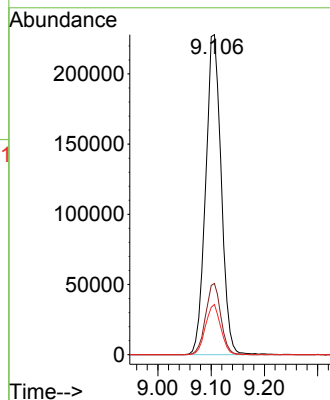
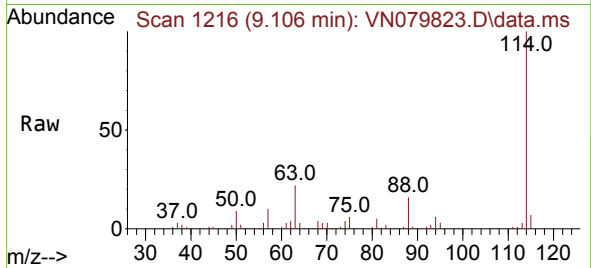




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 114
Delta R.T. 0.000 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

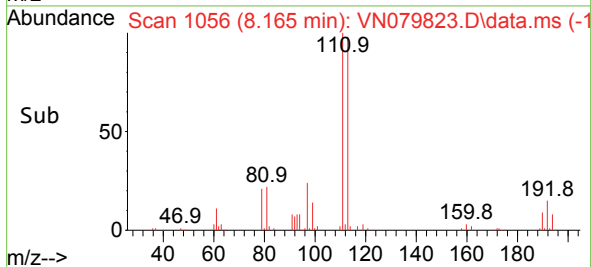
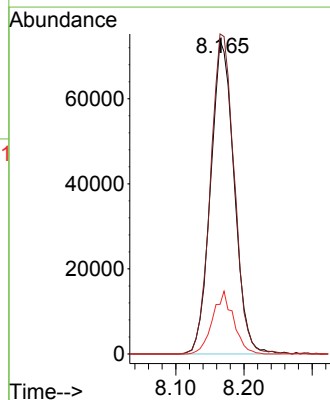
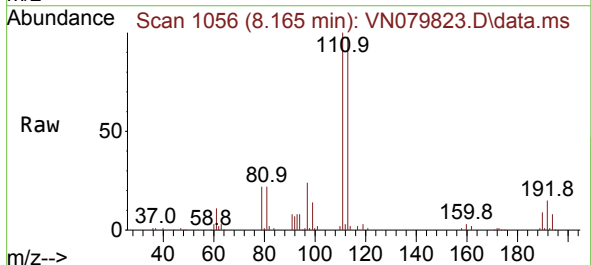
Instrument :
MSVOA_N
ClientSampleId :
FSND-MW-28-20231101

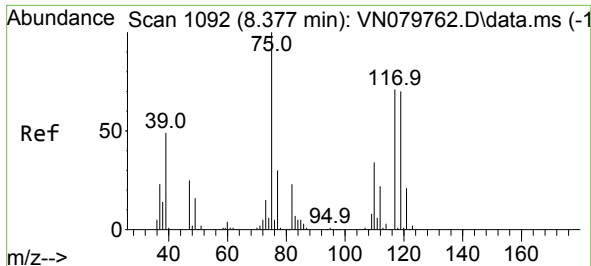
Tgt Ion:114 Resp: 462784
Ion Ratio Lower Upper
114 100
63 22.3 0.0 36.4
88 15.7 0.0 30.6



#35
Dibromofluoromethane
Concen: 54.025 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

Tgt Ion:113 Resp: 176955
Ion Ratio Lower Upper
113 100
111 103.2 82.6 123.8
192 17.9 12.7 19.1

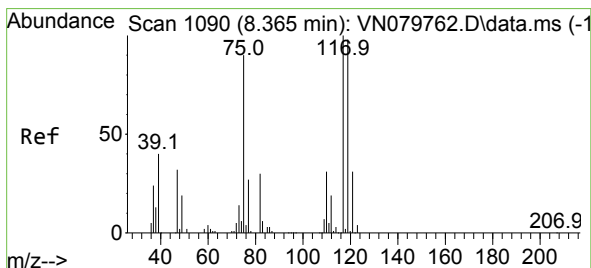
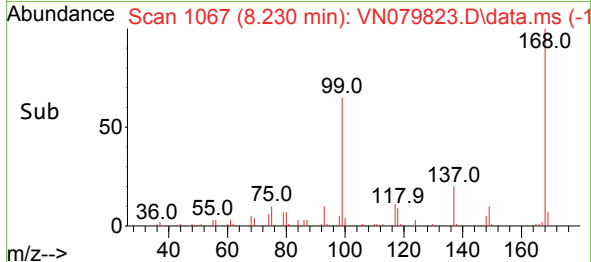
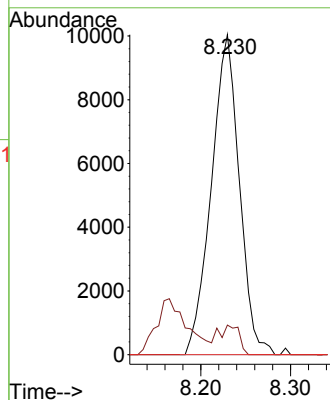
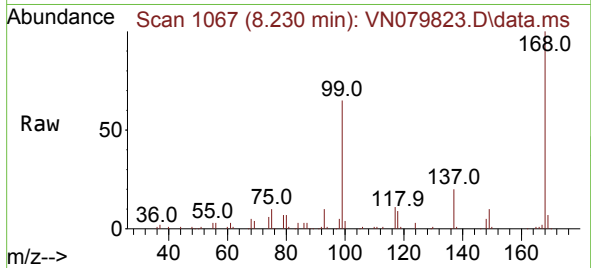




#36
1,1-Dichloropropene
Concen: 4.649 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

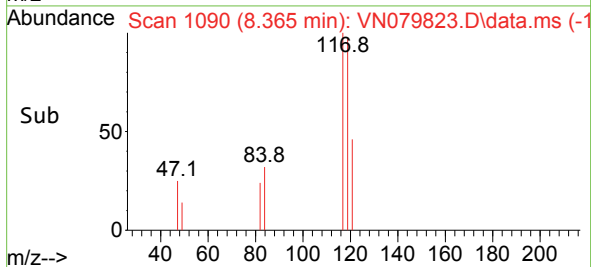
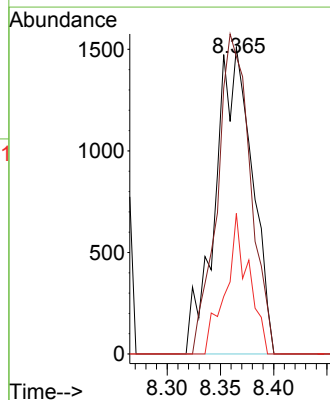
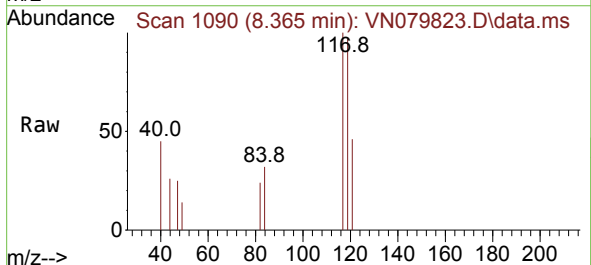
Instrument :
MSVOA_N
ClientSampleId :
FSND-MW-28-20231101

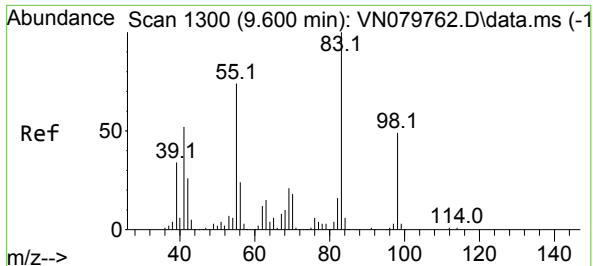
Tgt Ion: 75 Resp: 21743
Ion Ratio Lower Upper
75 100
110 6.8 19.1 57.3#
77 0.0 25.0 37.4#



#38
Carbon Tetrachloride
Concen: 0.776 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.006 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

Tgt Ion: 117 Resp: 3658
Ion Ratio Lower Upper
117 100
119 97.1 77.3 115.9
121 45.9 23.3 34.9#





#39

Methylcyclohexane

Concen: 2.424 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. -0.253 min

Lab File: VN079823.D

Acq: 03 Nov 2023 04:22

Instrument :

MSVOA_N

ClientSampleId :

FSND-MW-28-20231101

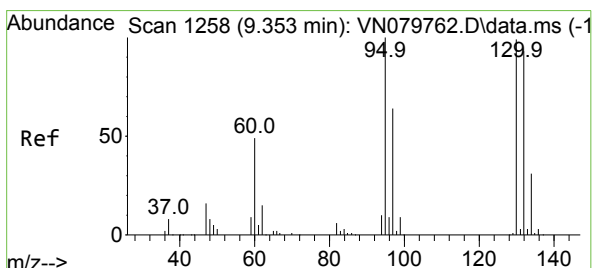
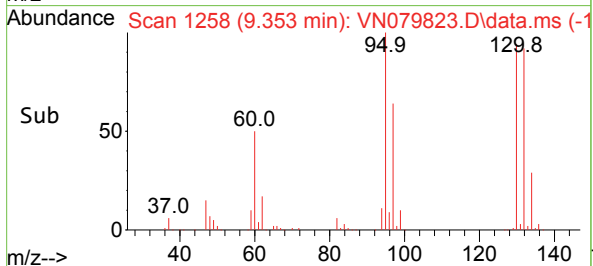
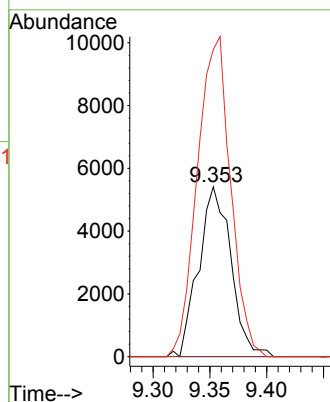
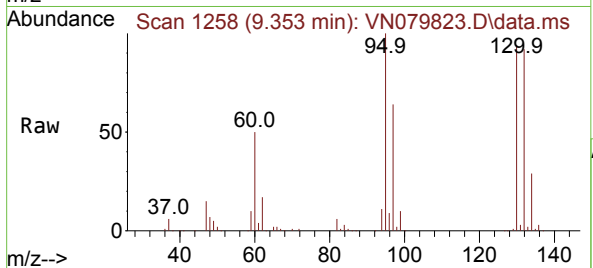
Tgt Ion: 83 Resp: 10668

Ion Ratio Lower Upper

83 100

55 0.0 49.1 73.7#

98 180.8 40.6 61.0#



#44

Trichloroethene

Concen: 220.428 ug/l

RT: 9.353 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VN079823.D

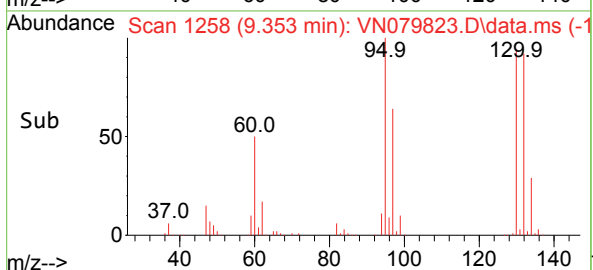
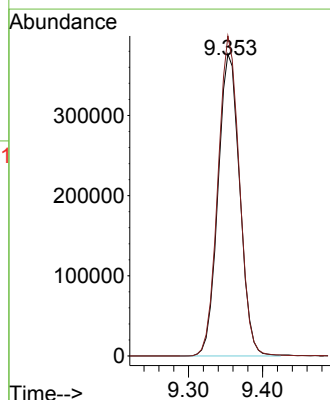
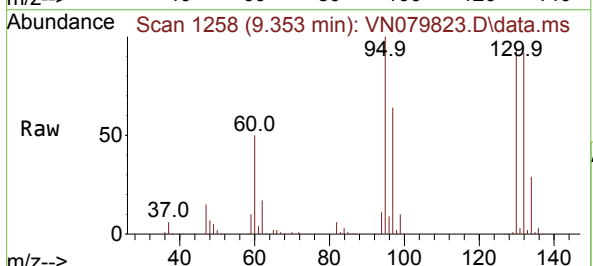
Acq: 03 Nov 2023 04:22

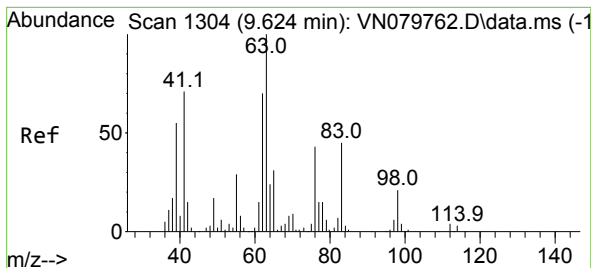
Tgt Ion:130 Resp: 766178

Ion Ratio Lower Upper

130 100

95 106.0 0.0 204.6





#45

1,2-Dichloropropane

Concen: 0.824 ug/l

RT: 9.359 min Scan# 11

Delta R.T. -0.265 min

Lab File: VN079823.D

Acq: 03 Nov 2023 04:22

Instrument :

MSVOA_N

ClientSampleId :

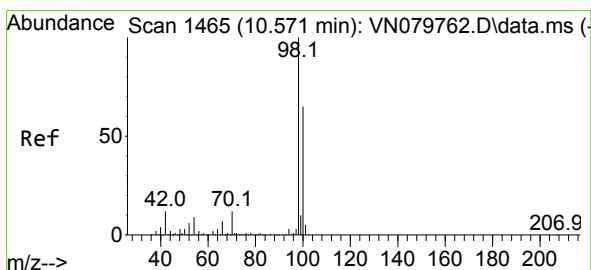
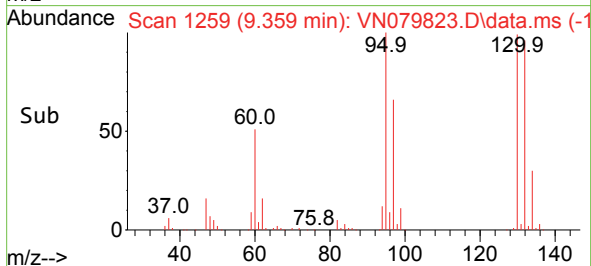
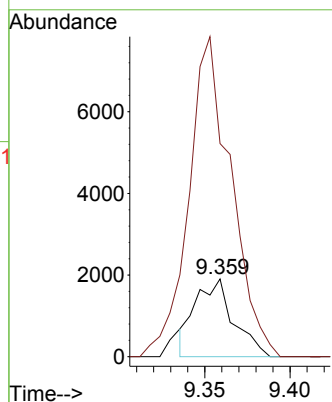
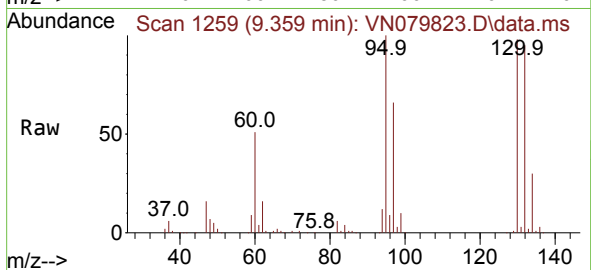
FSND-MW-28-20231101

Tgt Ion: 63 Resp: 2950

Ion Ratio Lower Upper

63 100

65 274.1 23.9 35.9#



#50

Toluene-d8

Concen: 51.482 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079823.D

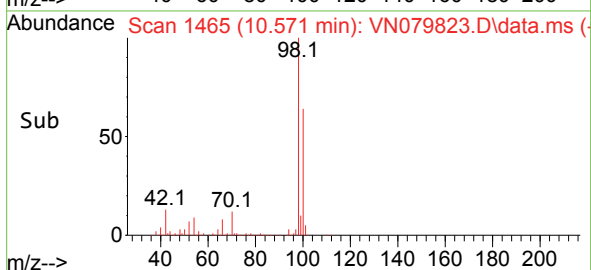
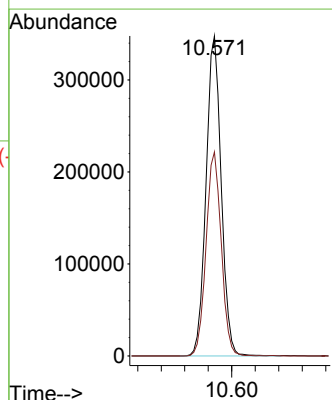
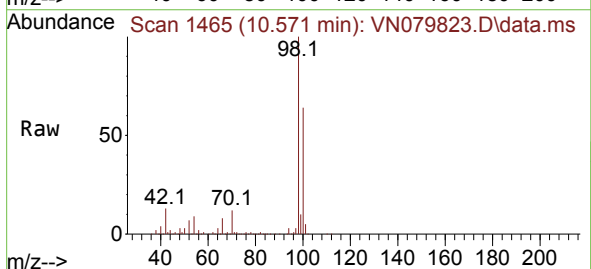
Acq: 03 Nov 2023 04:22

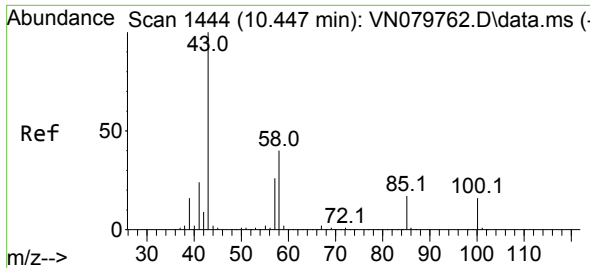
Tgt Ion: 98 Resp: 620766

Ion Ratio Lower Upper

98 100

100 63.8 52.0 78.0

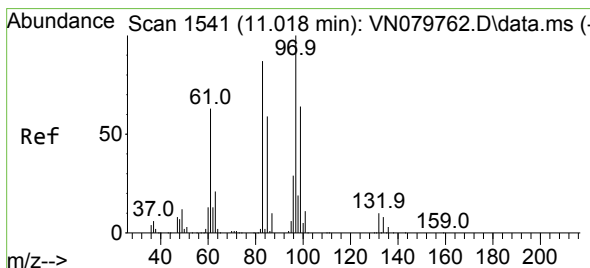
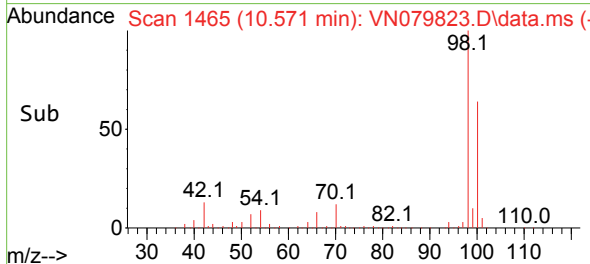
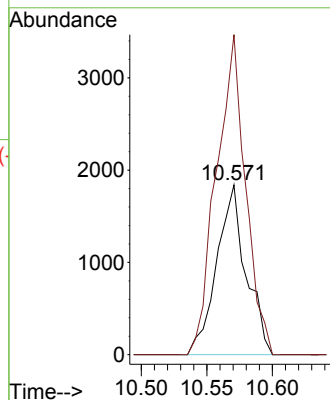
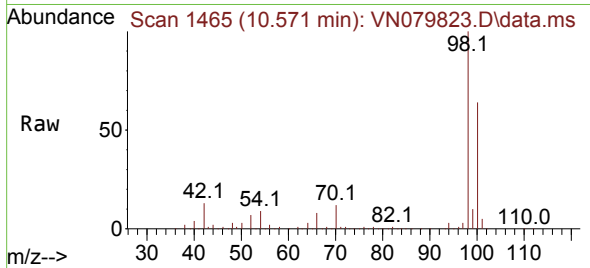




#51
4-Methyl-2-Pentanone
Concen: 0.676 ug/l
RT: 10.571 min Scan# 1444
Delta R.T. 0.124 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

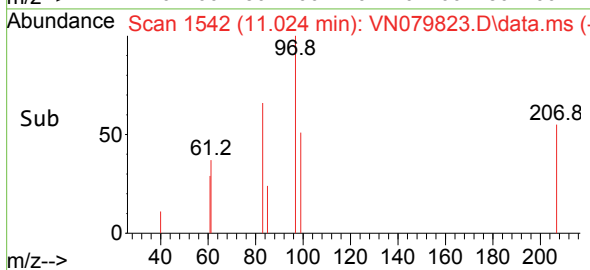
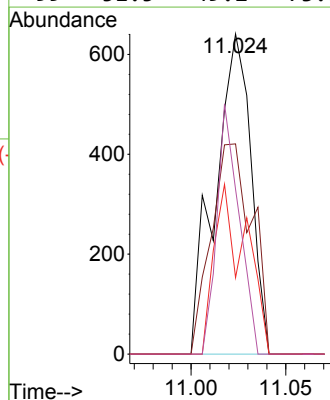
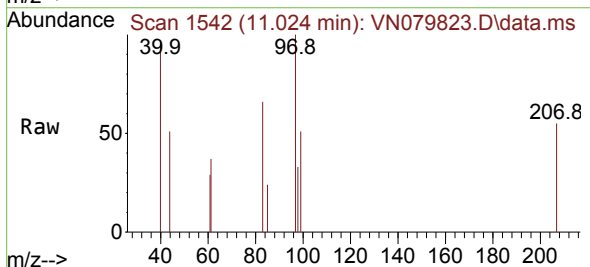
Instrument :
MSVOA_N
ClientSampleId :
FSND-MW-28-20231101

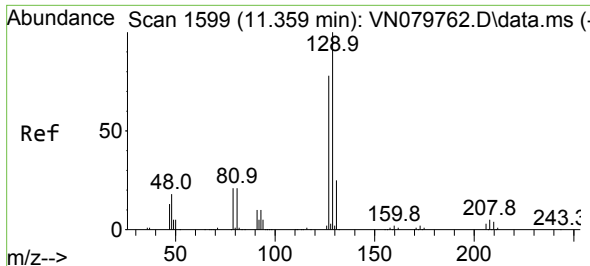
Tgt Ion: 43 Resp: 2861
Ion Ratio Lower Upper
43 100
58 187.9 36.6 54.8#



#55
1,1,2-Trichloroethane
Concen: 0.251 ug/l
RT: 11.024 min Scan# 1542
Delta R.T. 0.006 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

Tgt Ion: 97 Resp: 840
Ion Ratio Lower Upper
97 100
83 65.7 65.1 97.7
85 23.9 43.4 65.2#
99 51.5 49.2 73.8

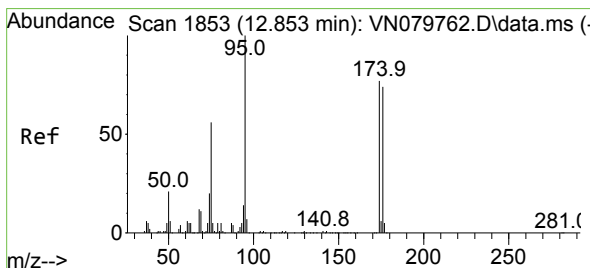
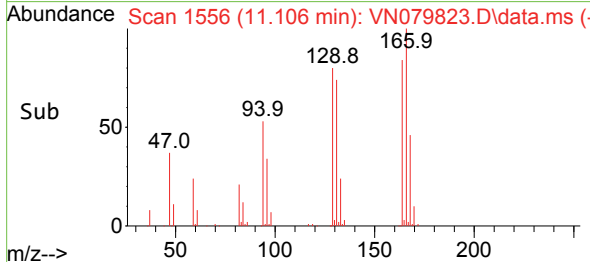
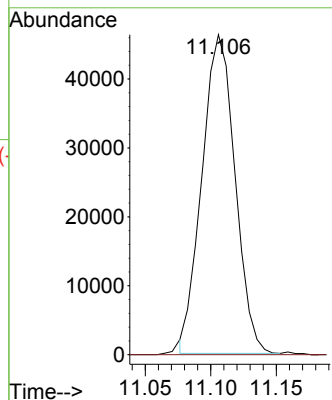
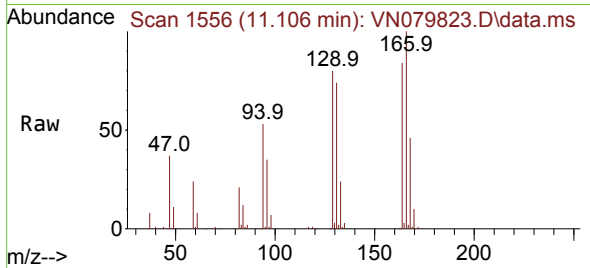




#60
Dibromochloromethane
Concen: 22.690 ug/l
RT: 11.106 min Scan# 11
Delta R.T. -0.259 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

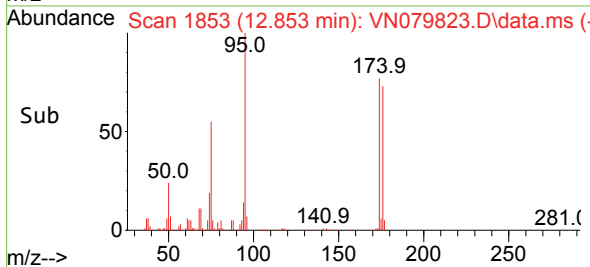
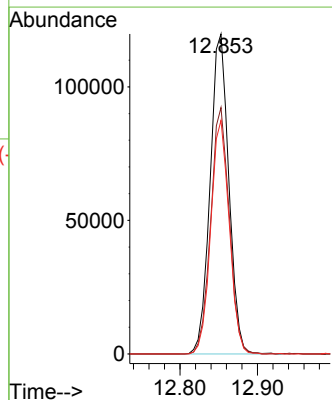
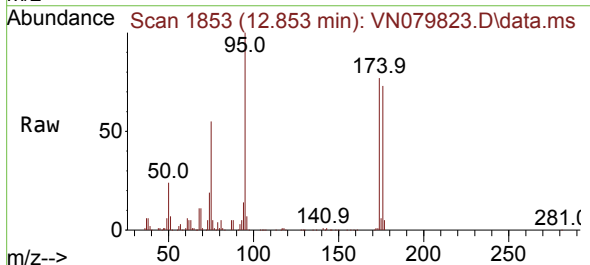
Instrument :
MSVOA_N
ClientSampleId :
FSND-MW-28-20231101

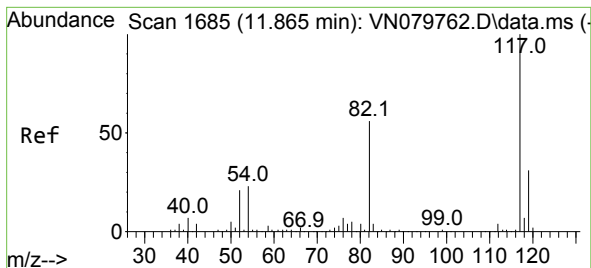
Tgt Ion:129 Resp: 81124
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 50.087 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

Tgt Ion: 95 Resp: 200298
Ion Ratio Lower Upper
95 100
174 76.7 0.0 143.8
176 72.0 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN079823.D

Acq: 03 Nov 2023 04:22

Instrument :

MSVOA_N

ClientSampleId :

FSND-MW-28-20231101

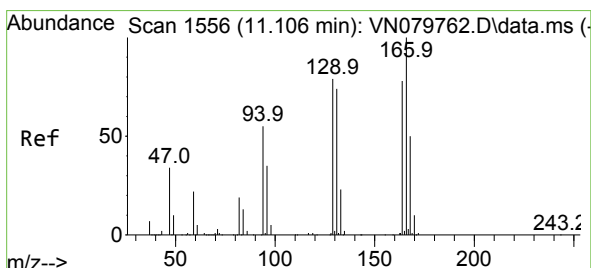
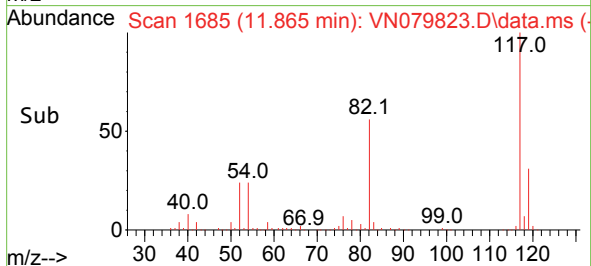
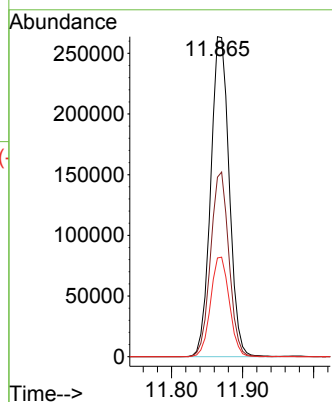
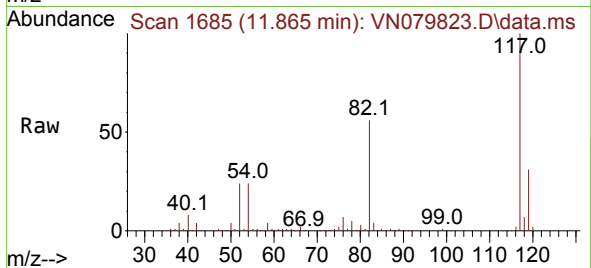
Tgt Ion:117 Resp: 476301

Ion Ratio Lower Upper

117 100

82 56.1 44.0 66.0

119 30.8 25.6 38.4



#64

Tetrachloroethene

Concen: 27.419 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.000 min

Lab File: VN079823.D

Acq: 03 Nov 2023 04:22

Tgt Ion:164 Resp: 84582

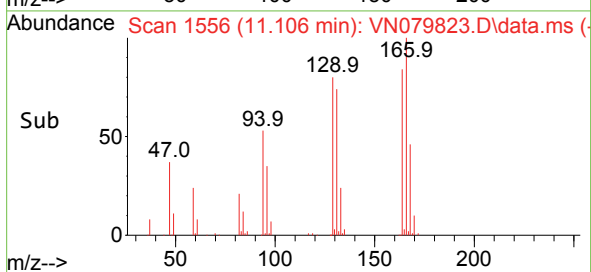
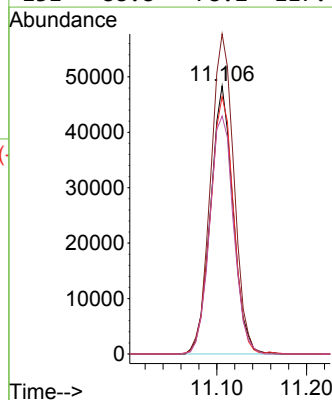
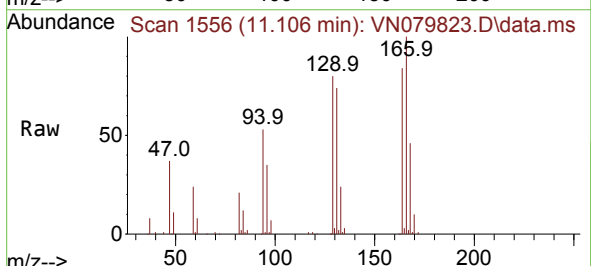
Ion Ratio Lower Upper

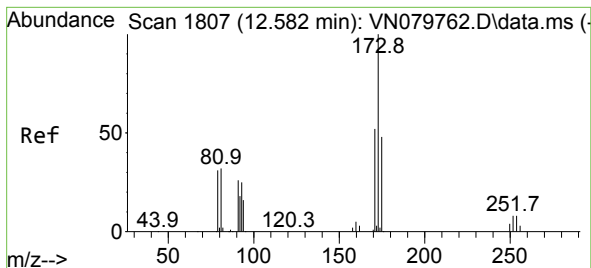
164 100

166 119.4 101.4 152.0

129 96.0 82.4 123.6

131 88.8 78.2 117.4





#71

Bromoform

Concen: 0.729 ug/l

RT: 12.853 min Scan# 1807

Delta R.T. 0.271 min

Lab File: VN079823.D

Acq: 03 Nov 2023 04:22

Instrument :

MSVOA_N

ClientSampleId :

FSND-MW-28-20231101

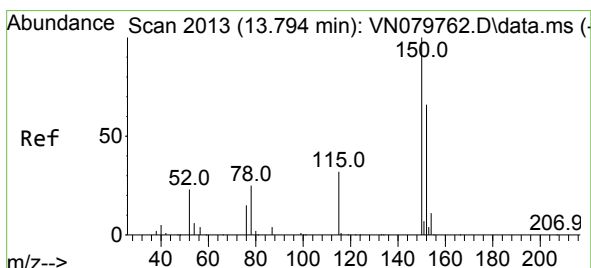
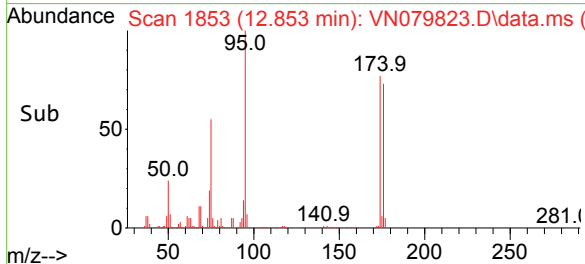
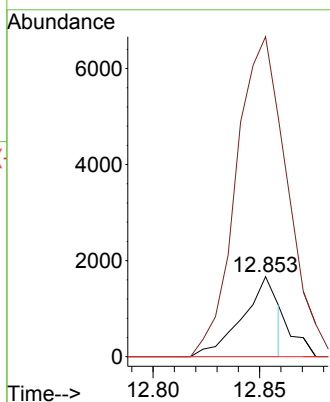
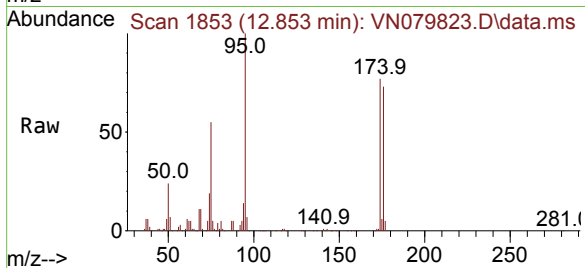
Tgt Ion:173 Resp: 1927

Ion Ratio Lower Upper

173 100

175 474.5 24.3 73.0#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.794 min Scan# 2013

Delta R.T. 0.000 min

Lab File: VN079823.D

Acq: 03 Nov 2023 04:22

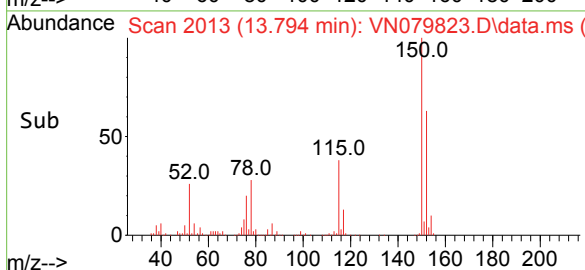
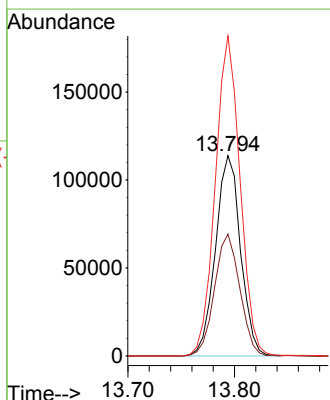
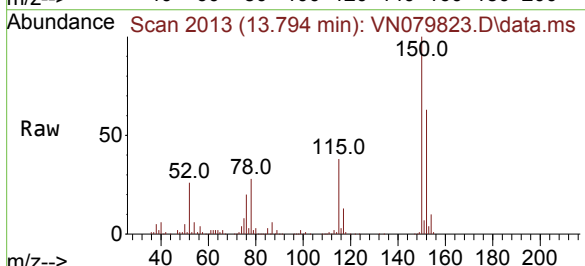
Tgt Ion:152 Resp: 185827

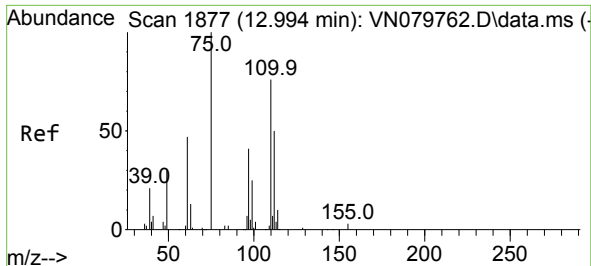
Ion Ratio Lower Upper

152 100

115 61.5 32.3 96.8

150 158.1 0.0 355.8

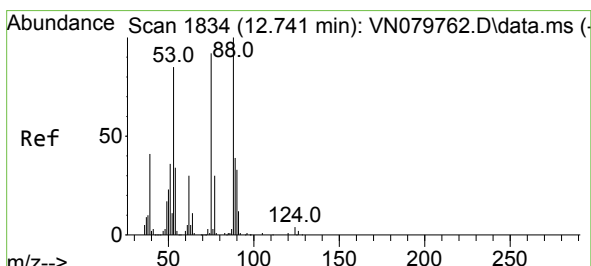
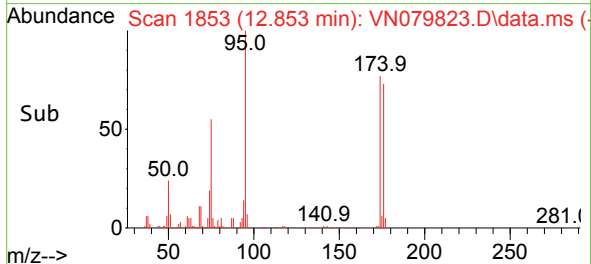
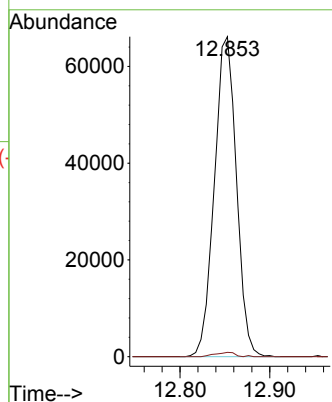
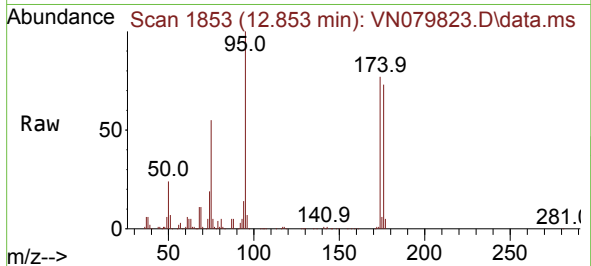




#76
1,2,3-Trichloropropane
Concen: 25.866 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

Instrument :
MSVOA_N
ClientSampleId :
FSND-MW-28-20231101

Tgt Ion: 75 Resp: 112847
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 70.377 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN079823.D
Acq: 03 Nov 2023 04:22

Tgt Ion: 75 Resp: 112847
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.1 38.8 58.2#

