

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110423\
 Data File : VN079897.D
 Acq On : 04 Nov 2023 16:53
 Operator : JC\MD
 Sample : 05222-07DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FSND-MW-EVAL-02S-20231101DL

Quant Time: Nov 06 02:16:14 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

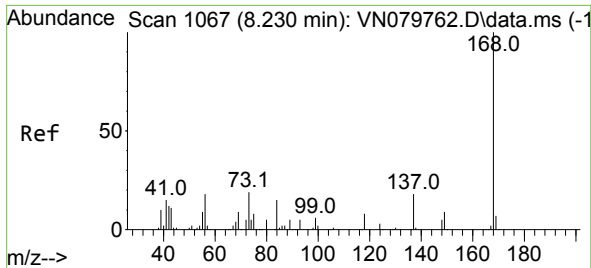
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	228619	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	464160	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	475496	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	181834	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	205311	58.945	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 117.900%			
35) Dibromofluoromethane	8.171	113	169009	51.447	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.900%			
50) Toluene-d8	10.571	98	579526	47.919	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.840%			
62) 4-Bromofluorobenzene	12.853	95	190976	47.614	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 95.220%			
Target Compounds			Qvalue			
3) Chloromethane	2.359	50	1384	Below Cal	#	84
5) Bromomethane	2.959	94	1184	0.541	ug/l #	76
10) Methyl Iodide	4.583	142	1068	0.360	ug/l #	38
13) Acrolein	4.195	56	68	2.741	ug/l #	16
16) Acetone	4.459	43	1729	1.413	ug/l	92
20) Methylene Chloride	5.289	84	664	0.215	ug/l #	50
25) 2-Butanone	7.506	43	999	0.558	ug/l #	37
27) cis-1,2-Dichloroethene	7.489	96	2555	0.778	ug/l	83
30) Chloroform	7.977	83	3777	0.655	ug/l #	74
31) Cyclohexane	8.230	56	6392	1.389	ug/l #	10
32) 1,1,1-Trichloroethane	8.165	97	6258	1.332	ug/l #	46
36) 1,1-Dichloropropene	8.224	75	20124	4.290	ug/l #	49
38) Carbon Tetrachloride	8.359	117	1086	0.230	ug/l #	74
44) Trichloroethene	9.359	130	80408	23.065	ug/l	96
47) Bromodichloromethane	9.888	83	1711	0.327	ug/l #	94
60) Dibromochloromethane	11.112	129	16366	4.564	ug/l #	11
64) Tetrachloroethene	11.112	164	16626	5.399	ug/l	93
71) Bromoform	12.847	173	1813	0.687	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	106139	24.863	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	106139	67.647	ug/l #	15
95) Naphthalene	15.641	128	1952	0.204	ug/l #	70

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

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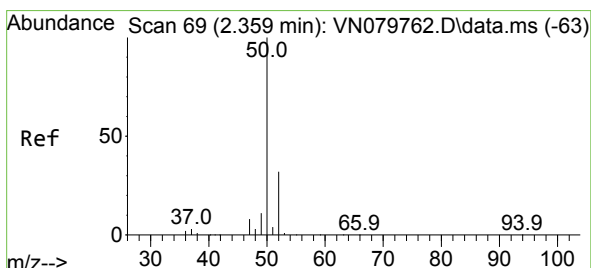
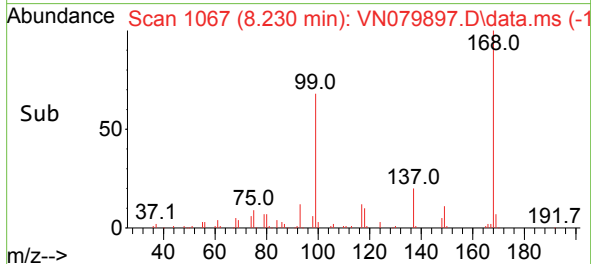
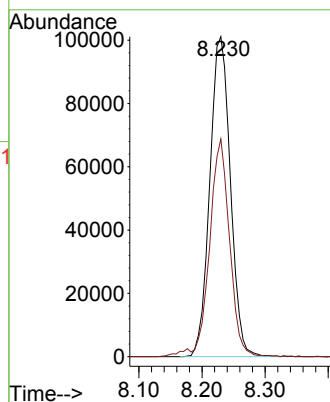
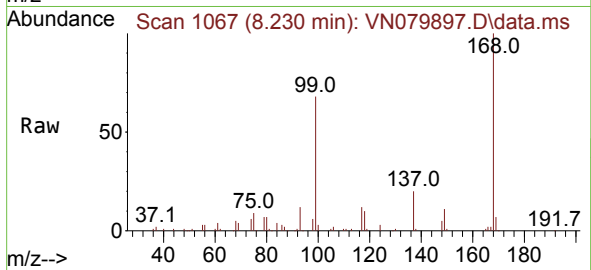




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. 0.001 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

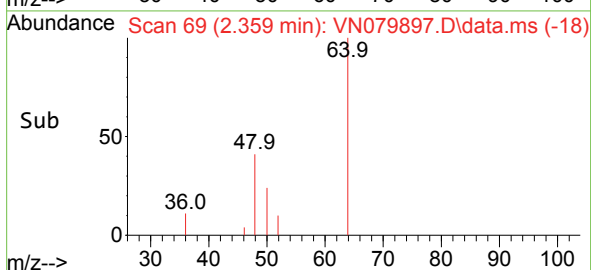
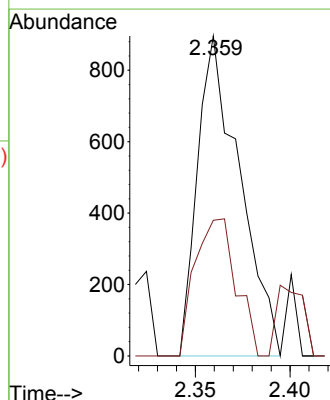
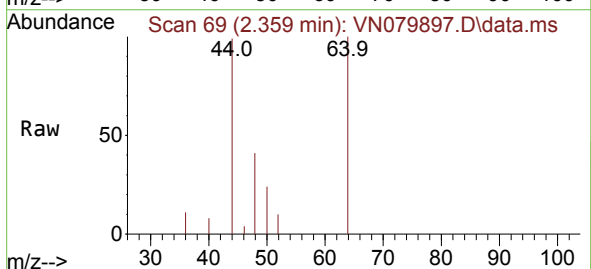
Instrument :
MSVOA_N
ClientSampleId :
FSND-MW-EVAL-02S-20231101DL

Tgt Ion:168 Resp: 228619
Ion Ratio Lower Upper
168 100
99 68.0 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

Tgt Ion: 50 Resp: 1384
Ion Ratio Lower Upper
50 100
52 42.4 26.5 39.7#

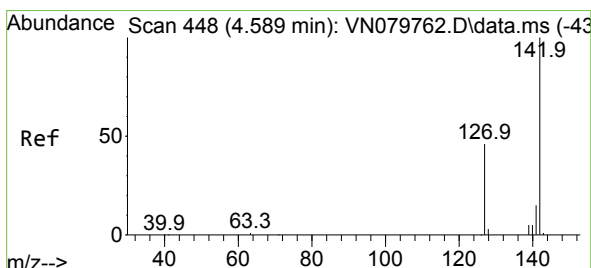
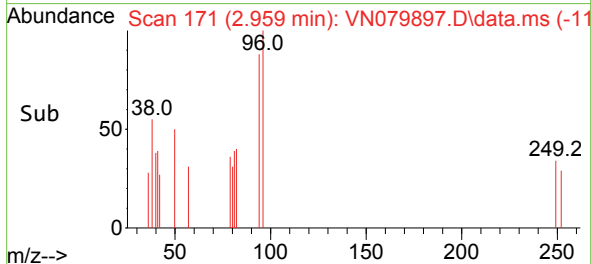
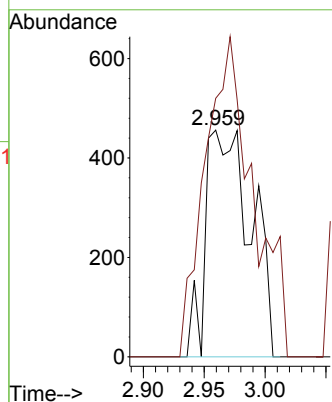
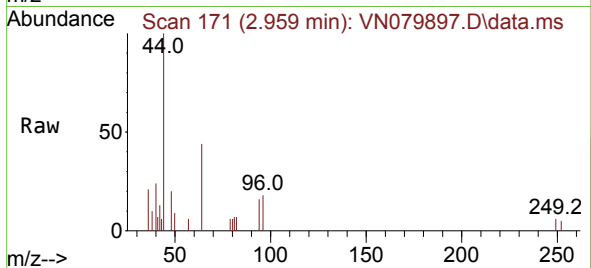




#5
Bromomethane
Concen: 0.541 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

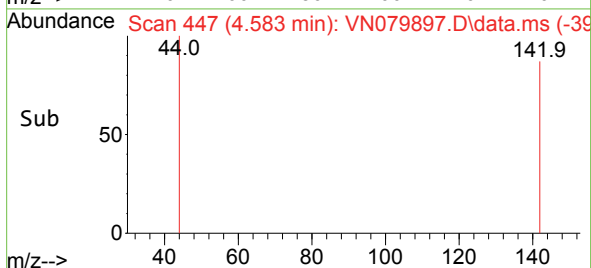
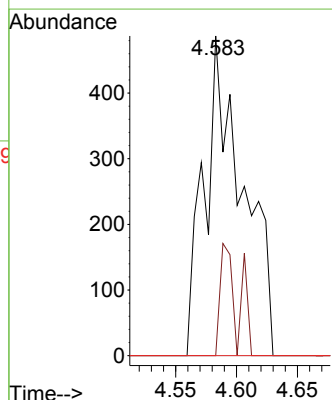
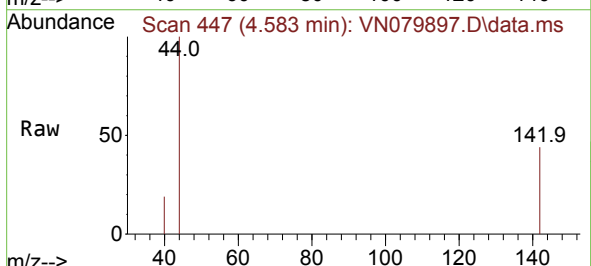
Instrument :
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ClientSampleId :
FSND-MW-EVAL-02S-20231101DL

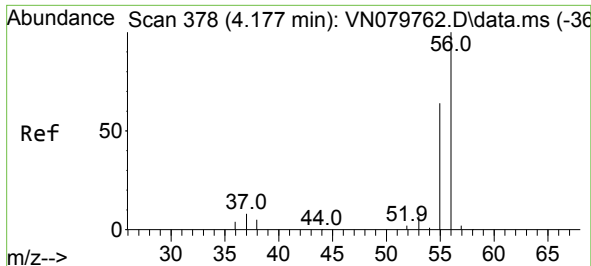
Tgt Ion: 94 Resp: 1184
Ion Ratio Lower Upper
94 100
96 114.0 73.1 109.7#



#10
Methyl Iodide
Concen: 0.360 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.012 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

Tgt Ion:142 Resp: 1068
Ion Ratio Lower Upper
142 100
127 0.0 37.6 56.4#
141 0.0 11.4 17.0#

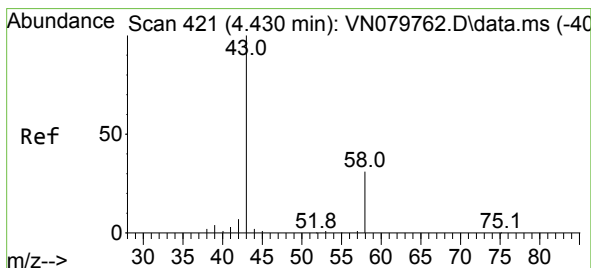
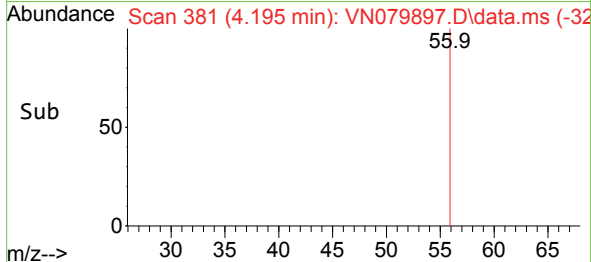
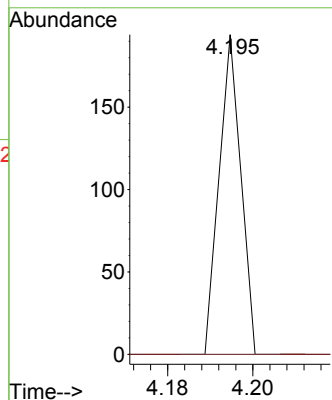
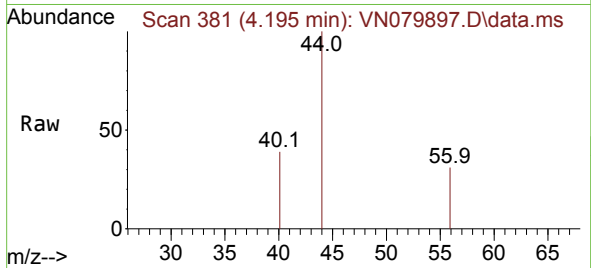




#13
Acrolein
Concen: 2.741 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.012 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

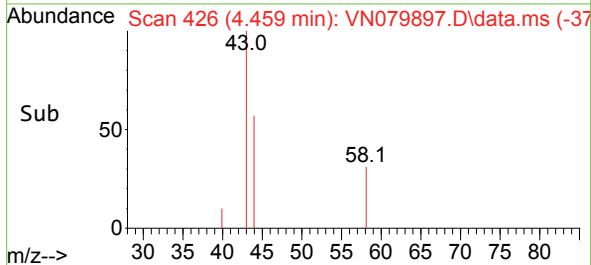
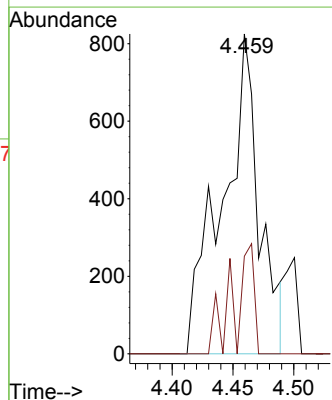
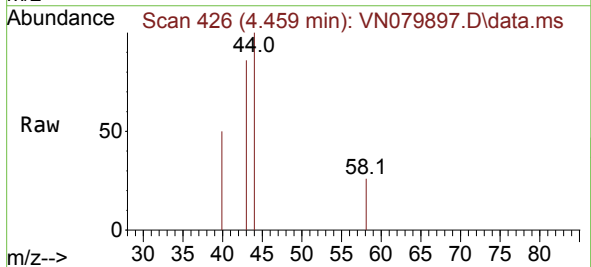
Instrument :
MSVOA_N
ClientSampleId :
FSND-MW-EVAL-02S-20231101DL

Tgt Ion: 56 Resp: 68
Ion Ratio Lower Upper
56 100
55 0.0 54.5 81.7#



#16
Acetone
Concen: 1.413 ug/l
RT: 4.459 min Scan# 426
Delta R.T. 0.030 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

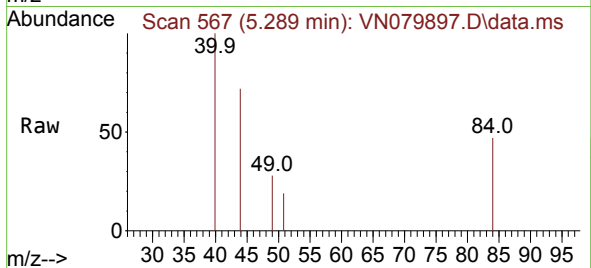
Tgt Ion: 43 Resp: 1729
Ion Ratio Lower Upper
43 100
58 30.5 28.0 42.0





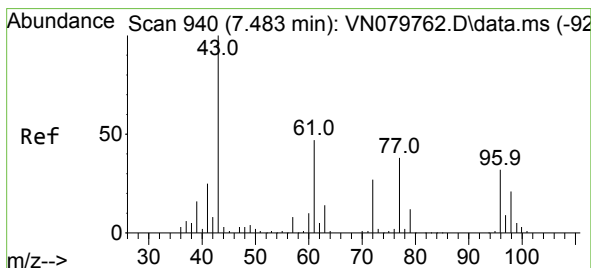
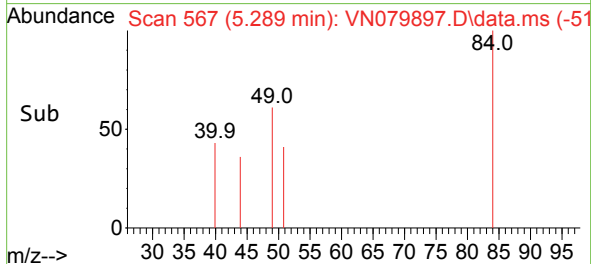
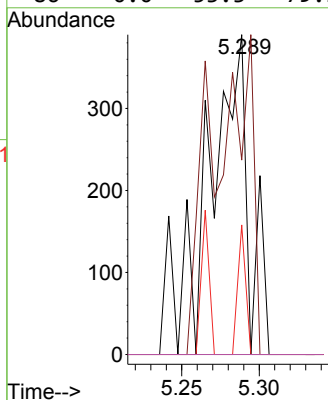
#20
Methylene Chloride
Concen: 0.215 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.018 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

Instrument :
MSVOA_N
ClientSampleId :
FSND-MW-EVAL-02S-20231101DL



Tgt Ion: 84 Resp: 664

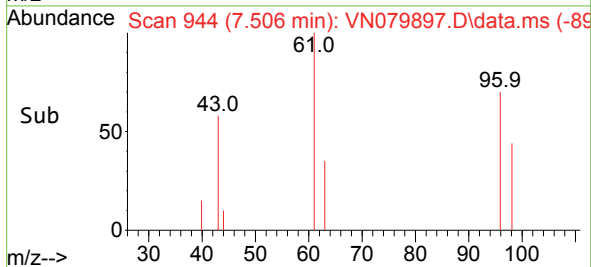
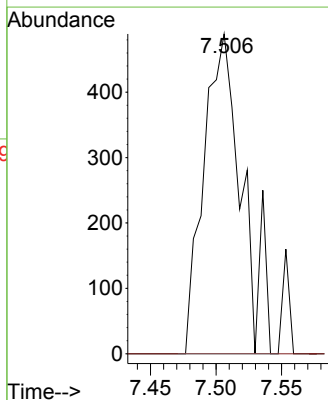
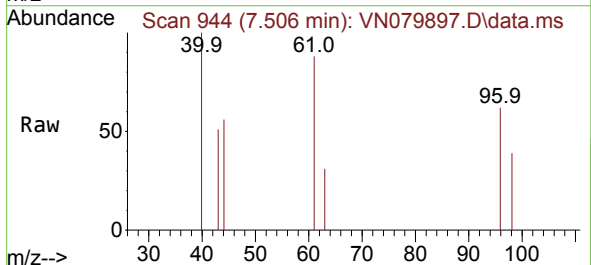
Ion	Ratio	Lower	Upper
84	100		
49	60.8	79.7	119.5#
51	40.5	25.2	37.8#
86	0.0	53.3	79.9#

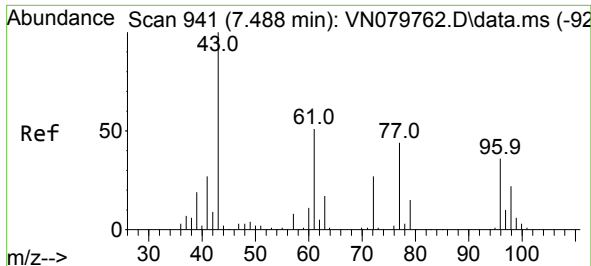


#25
2-Butanone
Concen: 0.558 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.018 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

Tgt Ion: 43 Resp: 999

Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.2	45.2#

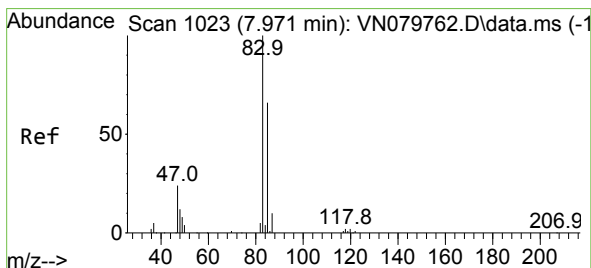
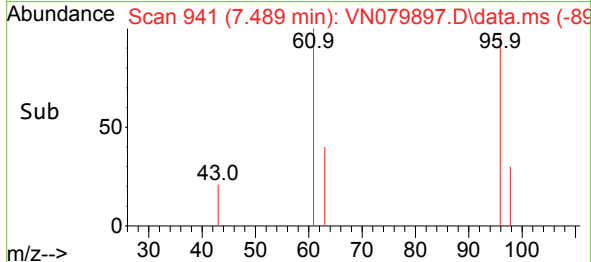
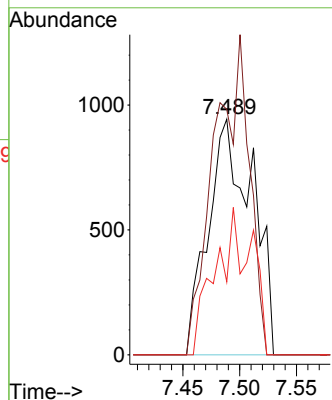
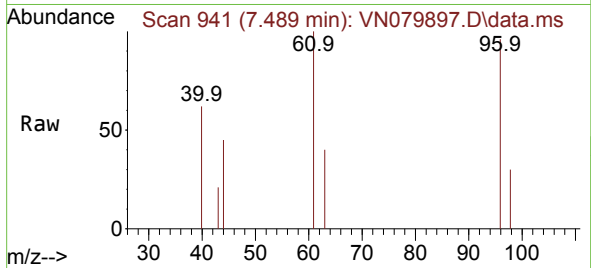




#27
 cis-1,2-Dichloroethene
 Concen: 0.778 ug/l
 RT: 7.489 min Scan# 941
 Delta R.T. 0.000 min
 Lab File: VN079897.D
 Acq: 04 Nov 2023 16:53

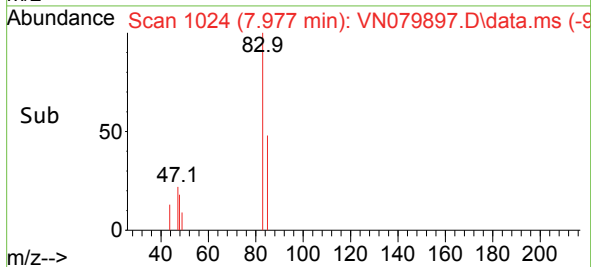
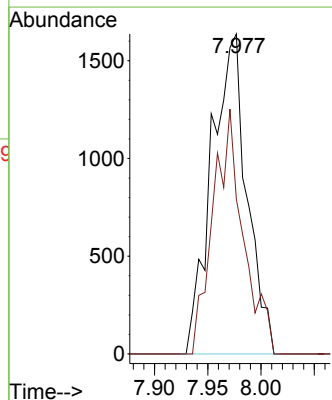
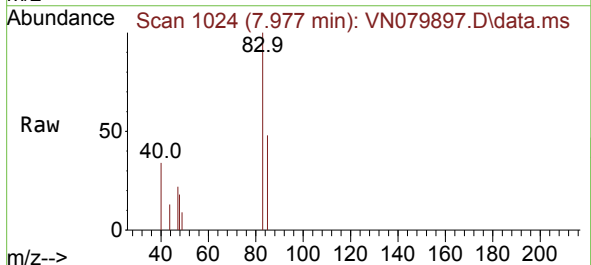
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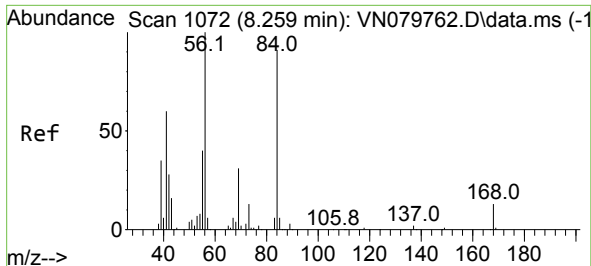
Tgt Ion: 96 Resp: 2555
 Ion Ratio Lower Upper
 96 100
 61 107.7 0.0 255.2
 98 50.6 0.0 128.8



#30
 Chloroform
 Concen: 0.655 ug/l
 RT: 7.977 min Scan# 1024
 Delta R.T. 0.006 min
 Lab File: VN079897.D
 Acq: 04 Nov 2023 16:53

Tgt Ion: 83 Resp: 3777
 Ion Ratio Lower Upper
 83 100
 85 48.4 55.4 83.0#

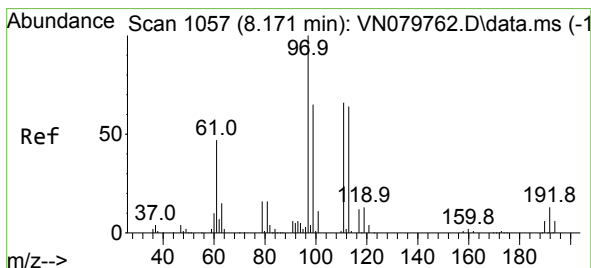
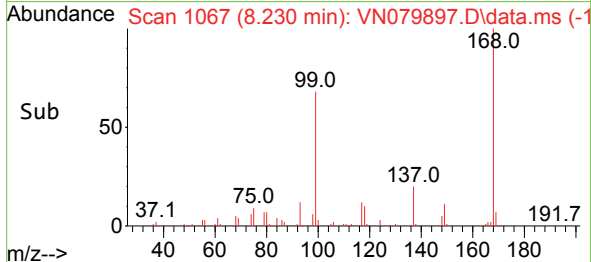
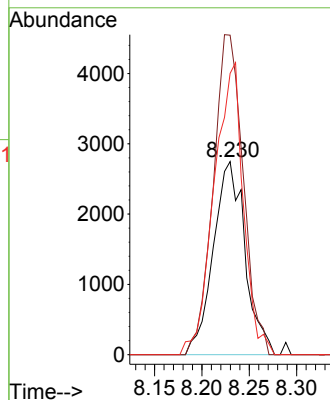
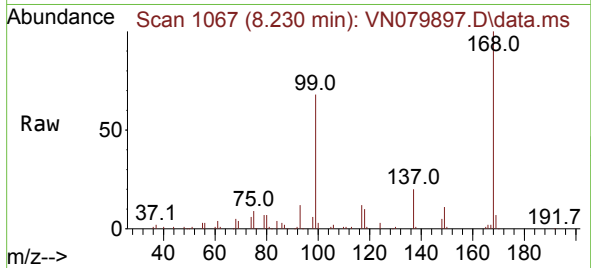




#31
Cyclohexane
Concen: 1.389 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

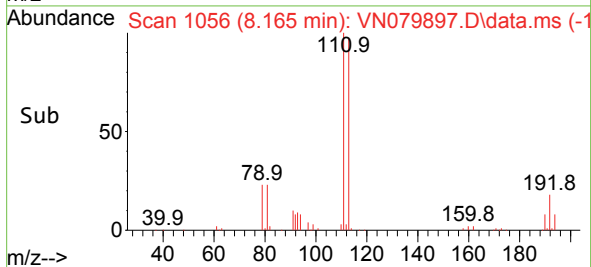
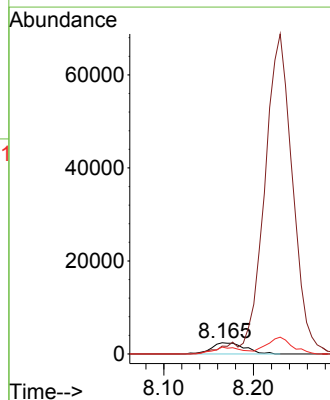
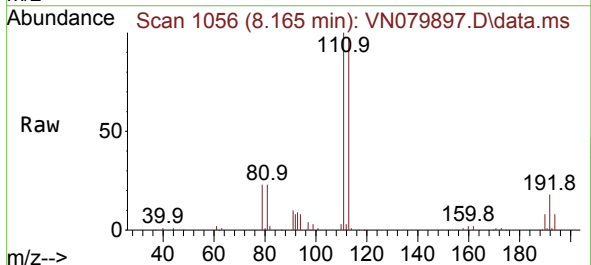
Instrument : MSVOA_N
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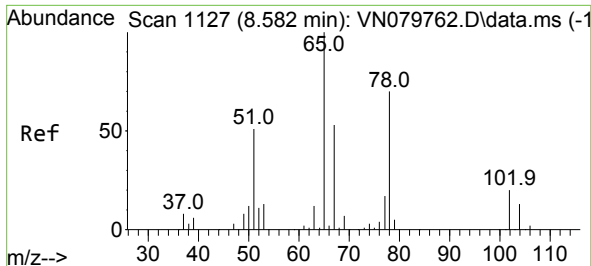
Tgt Ion: 56 Resp: 6392
Ion Ratio Lower Upper
56 100
69 165.5 26.8 40.2#
84 145.7 81.8 122.6#



#32
1,1,1-Trichloroethane
Concen: 1.332 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.006 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

Tgt Ion: 97 Resp: 6258
Ion Ratio Lower Upper
97 100
99 0.0 50.3 75.5#
61 52.9 34.7 52.1#





#33

1,2-Dichloroethane-d4

Concen: 58.945 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VN079897.D

Acq: 04 Nov 2023 16:53

Instrument :

MSVOA_N

ClientSampleId :

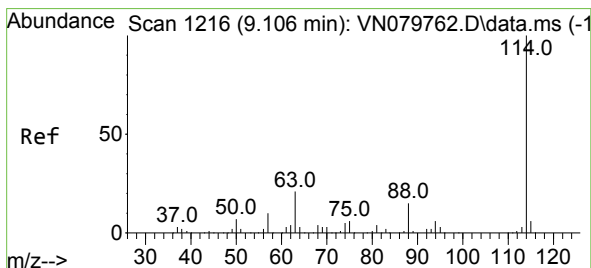
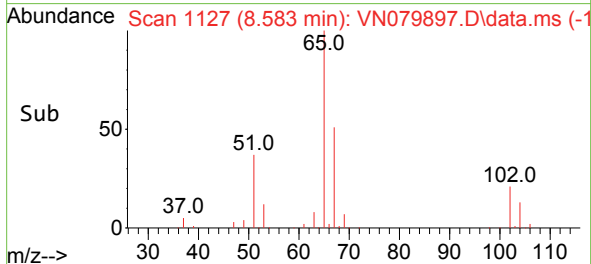
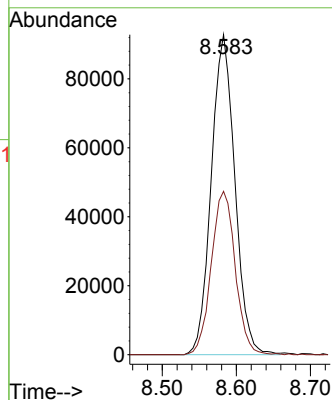
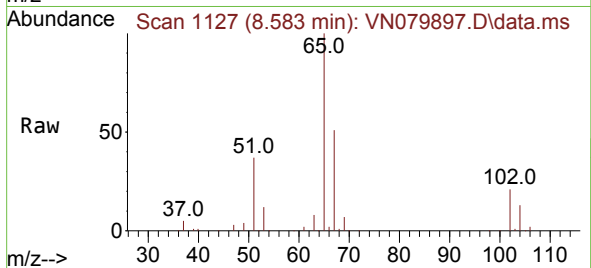
FSND-MW-EVAL-02S-20231101DL

Tgt Ion: 65 Resp: 205311

Ion Ratio Lower Upper

65 100

67 51.9 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: VN079897.D

Acq: 04 Nov 2023 16:53

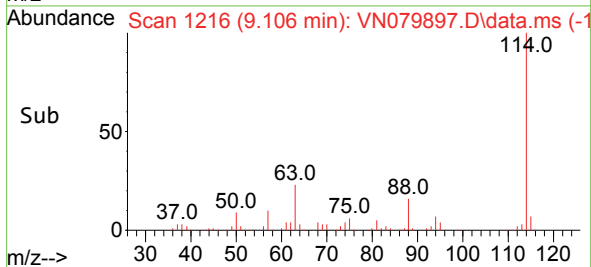
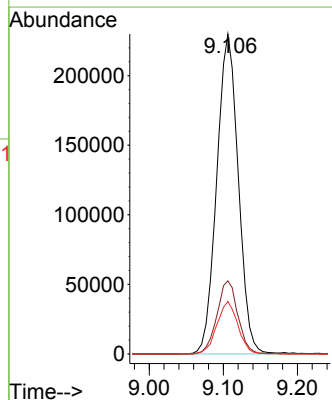
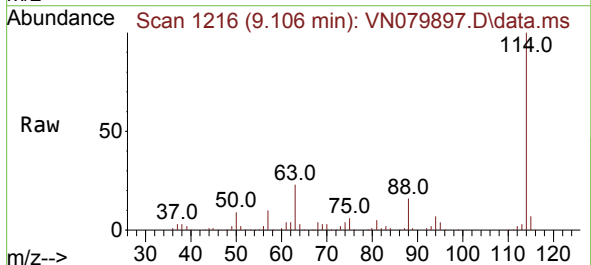
Tgt Ion: 114 Resp: 464160

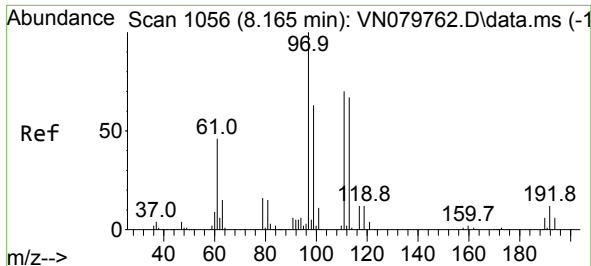
Ion Ratio Lower Upper

114 100

63 22.9 0.0 36.4

88 16.4 0.0 30.6

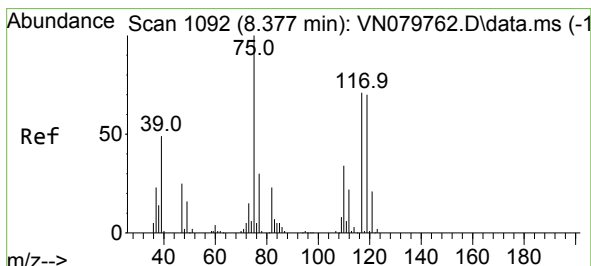
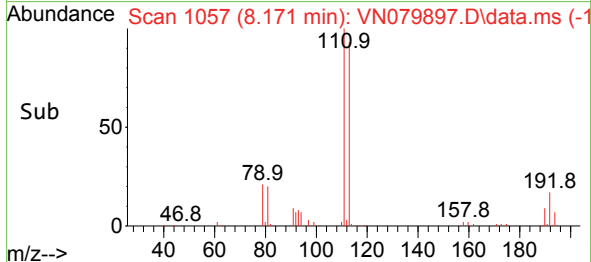
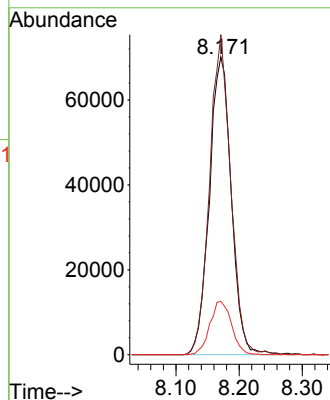
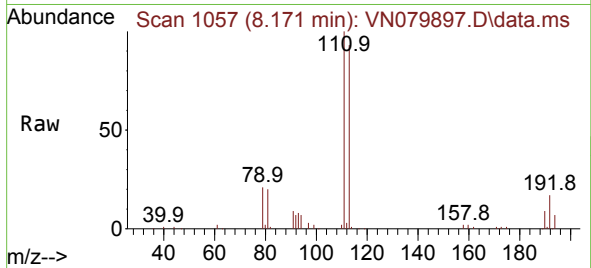




#35
Dibromofluoromethane
Concen: 51.447 ug/l
RT: 8.171 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

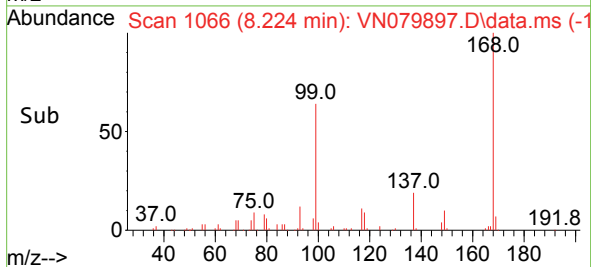
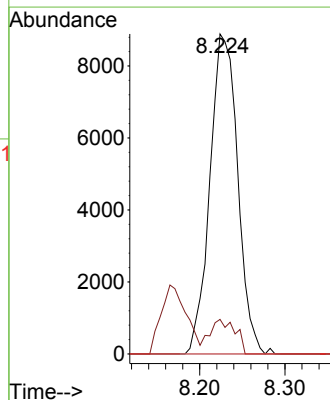
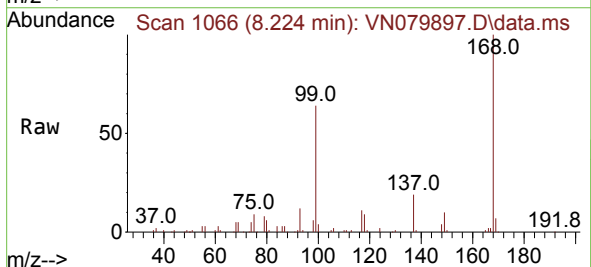
Instrument :
MSVOA_N
ClientSampleId :
FSND-MW-EVAL-02S-20231101DL

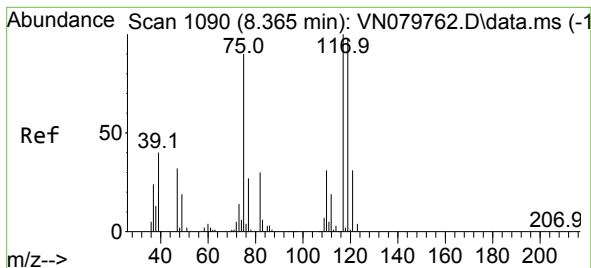
Tgt Ion:113 Resp: 169009
Ion Ratio Lower Upper
113 100
111 103.7 82.6 123.8
192 17.7 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.290 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.153 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

Tgt Ion: 75 Resp: 20124
Ion Ratio Lower Upper
75 100
110 10.0 19.1 57.3#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 0.230 ug/l

RT: 8.359 min Scan# 1108

Delta R.T. 0.000 min

Lab File: VN079897.D

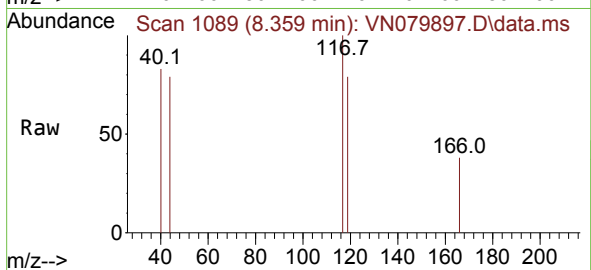
Acq: 04 Nov 2023 16:53

Instrument :

MSVOA_N

ClientSampleId :

FSND-MW-EVAL-02S-20231101DL



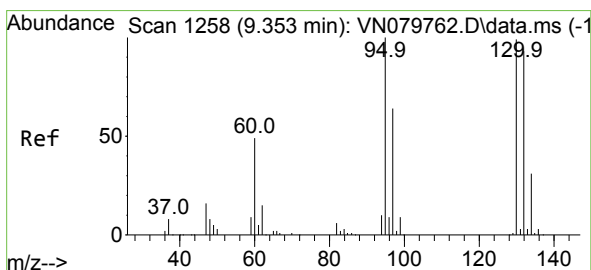
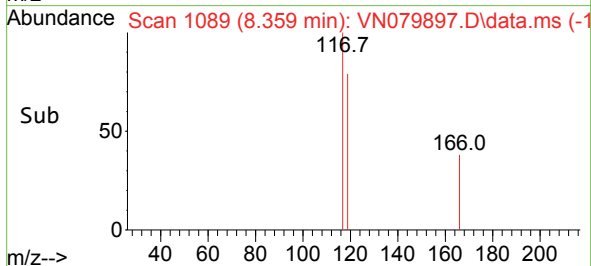
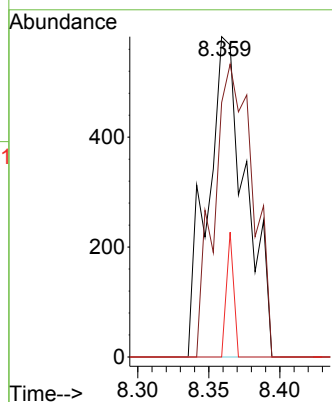
Tgt Ion:117 Resp: 1086

Ion Ratio Lower Upper

117 100

119 79.4 77.3 115.9

121 0.0 23.3 34.9#



#44

Trichloroethene

Concen: 23.065 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. 0.006 min

Lab File: VN079897.D

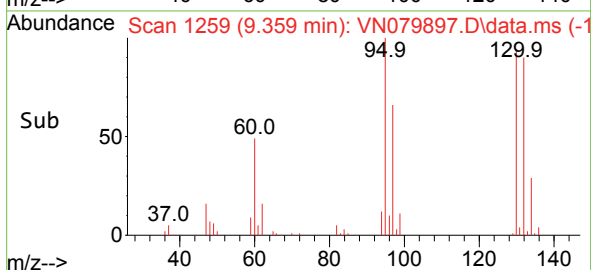
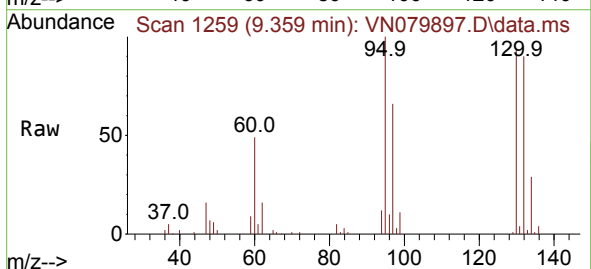
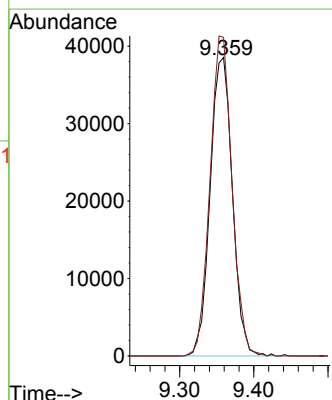
Acq: 04 Nov 2023 16:53

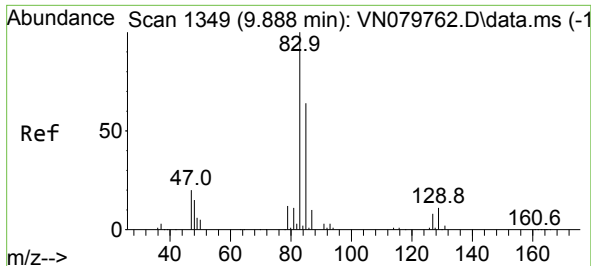
Tgt Ion:130 Resp: 80408

Ion Ratio Lower Upper

130 100

95 106.7 0.0 204.6





#47

Bromodichloromethane

Concen: 0.327 ug/l

RT: 9.888 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN079897.D

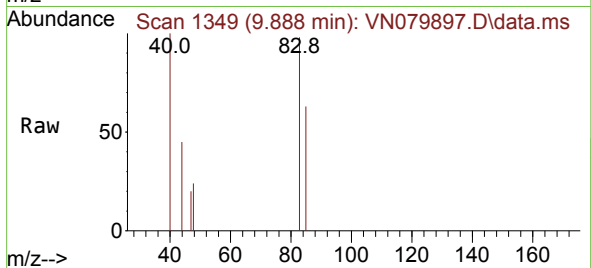
Acq: 04 Nov 2023 16:53

Instrument :

MSVOA_N

ClientSampleId :

FSND-MW-EVAL-02S-20231101DL



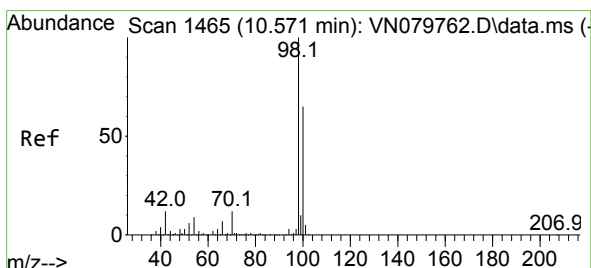
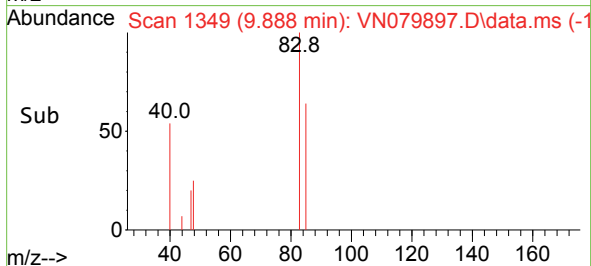
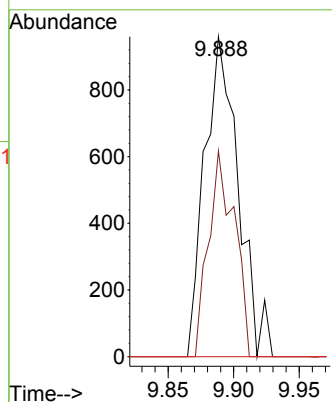
Tgt Ion: 83 Resp: 1711

Ion Ratio Lower Upper

83 100

85 64.3 49.6 74.4

127 0.0 7.0 10.6#



#50

Toluene-d8

Concen: 47.919 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN079897.D

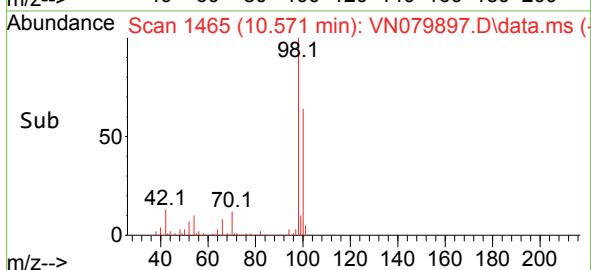
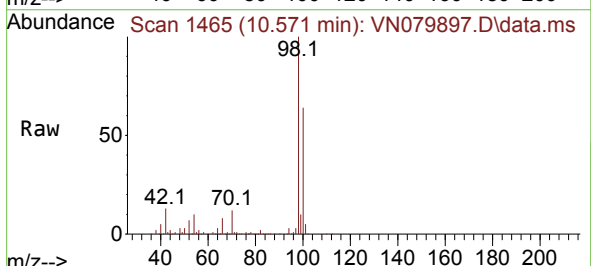
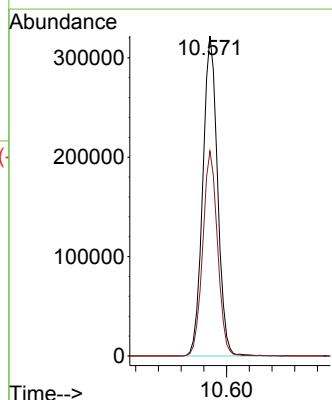
Acq: 04 Nov 2023 16:53

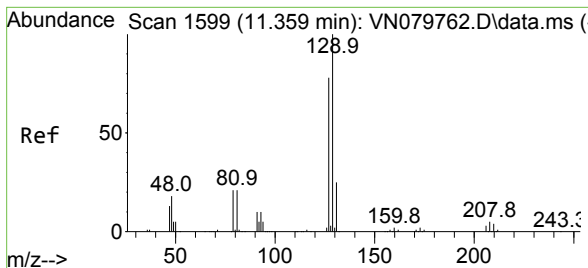
Tgt Ion: 98 Resp: 579526

Ion Ratio Lower Upper

98 100

100 64.1 52.0 78.0

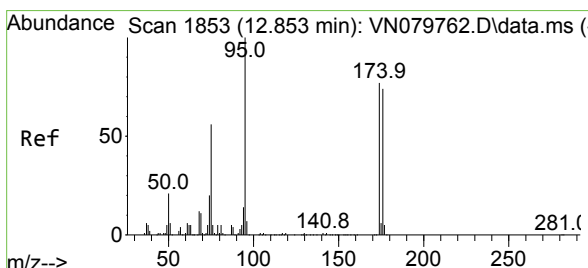
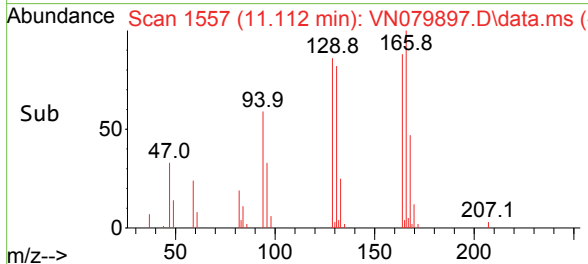
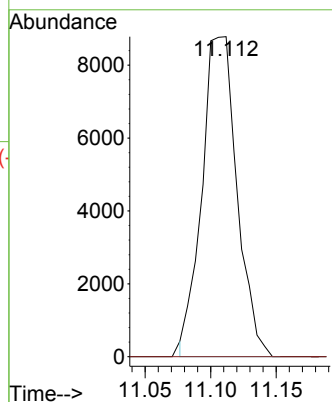
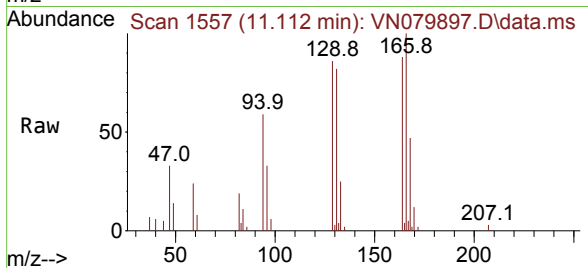




#60
 Dibromochloromethane
 Concen: 4.564 ug/l
 RT: 11.112 min Scan# 11
 Delta R.T. -0.253 min
 Lab File: VN079897.D
 Acq: 04 Nov 2023 16:53

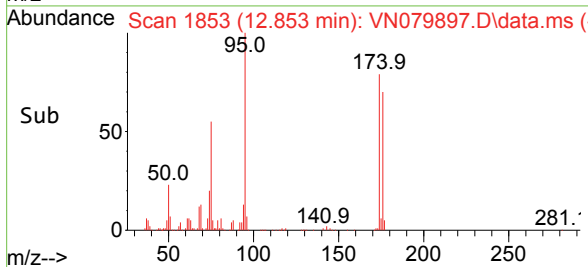
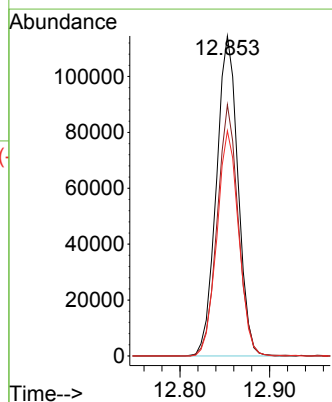
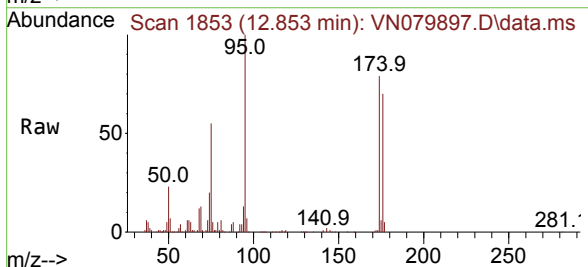
Instrument :
 MSVOA_N
 ClientSampleId :
 FSND-MW-EVAL-02S-20231101DL

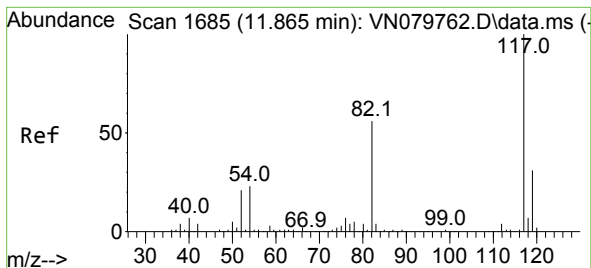
Tgt Ion:129 Resp: 16366
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 116.0#



#62
 4-Bromofluorobenzene
 Concen: 47.614 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.000 min
 Lab File: VN079897.D
 Acq: 04 Nov 2023 16:53

Tgt Ion: 95 Resp: 190976
 Ion Ratio Lower Upper
 95 100
 174 76.9 0.0 143.8
 176 70.7 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN079897.D

Acq: 04 Nov 2023 16:53

Instrument :

MSVOA_N

ClientSampleId :

FSND-MW-EVAL-02S-20231101DL

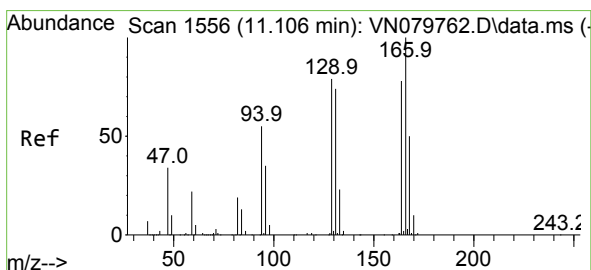
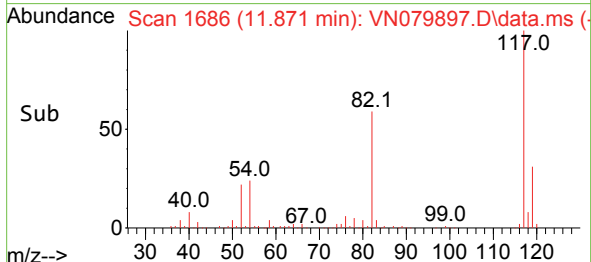
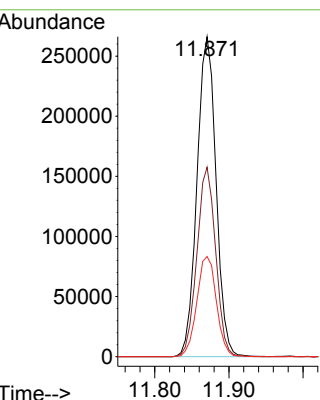
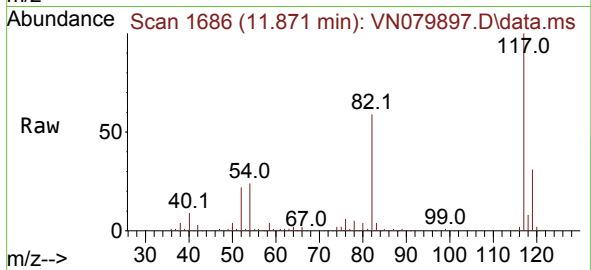
Tgt Ion:117 Resp: 475496

Ion Ratio Lower Upper

117 100

82 59.2 44.0 66.0

119 31.3 25.6 38.4



#64

Tetrachloroethene

Concen: 5.399 ug/l

RT: 11.112 min Scan# 1557

Delta R.T. 0.006 min

Lab File: VN079897.D

Acq: 04 Nov 2023 16:53

Tgt Ion:164 Resp: 16626

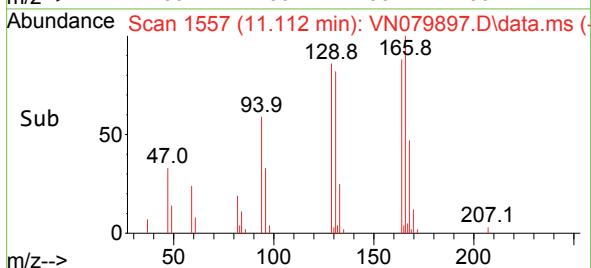
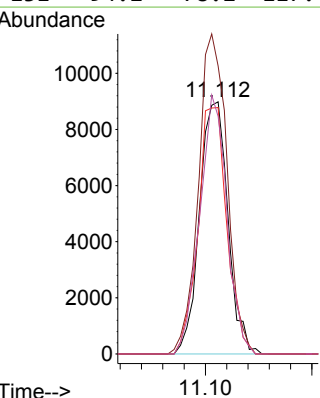
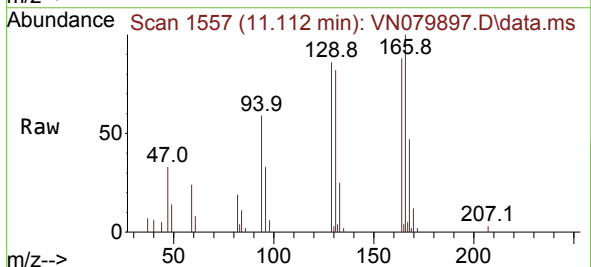
Ion Ratio Lower Upper

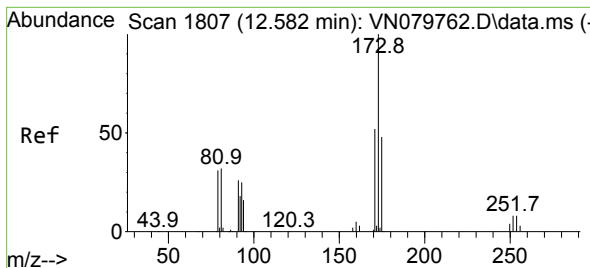
164 100

166 114.2 101.4 152.0

129 97.7 82.4 123.6

131 94.2 78.2 117.4





#71

Bromoform

Concen: 0.687 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.265 min

Lab File: VN079897.D

Acq: 04 Nov 2023 16:53

Instrument :

MSVOA_N

ClientSampleId :

FSND-MW-EVAL-02S-20231101DL

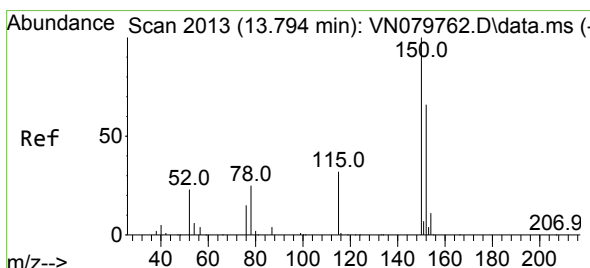
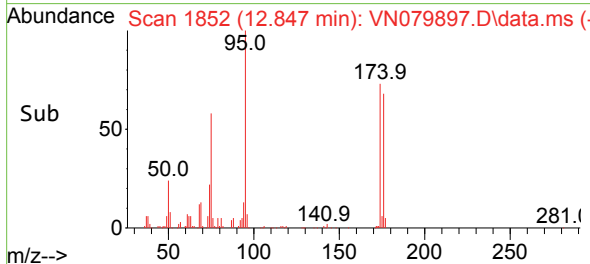
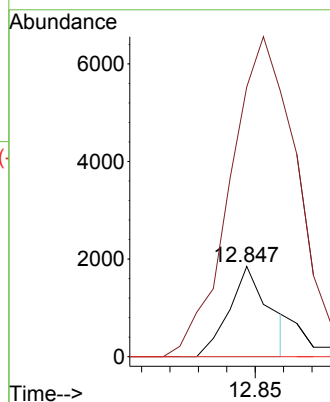
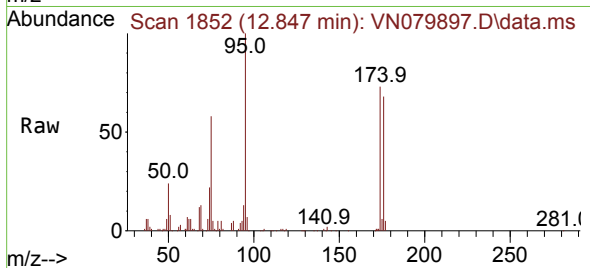
Tgt Ion:173 Resp: 1813

Ion Ratio Lower Upper

173 100

175 461.7 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: VN079897.D

Acq: 04 Nov 2023 16:53

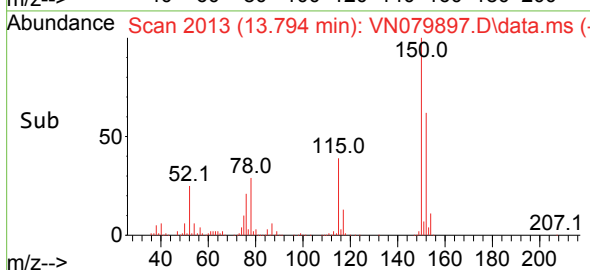
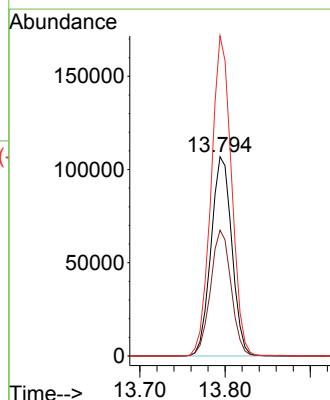
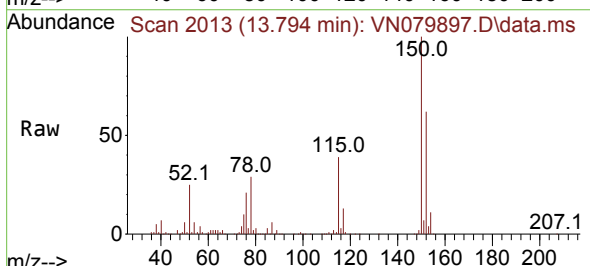
Tgt Ion:152 Resp: 181834

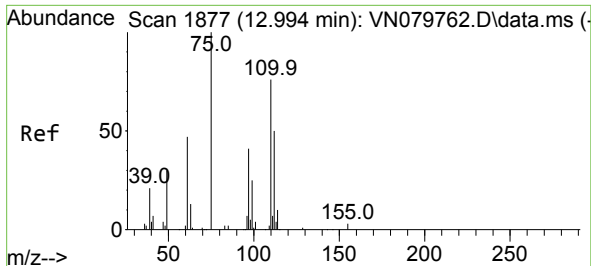
Ion Ratio Lower Upper

152 100

115 62.4 32.3 96.8

150 157.1 0.0 355.8

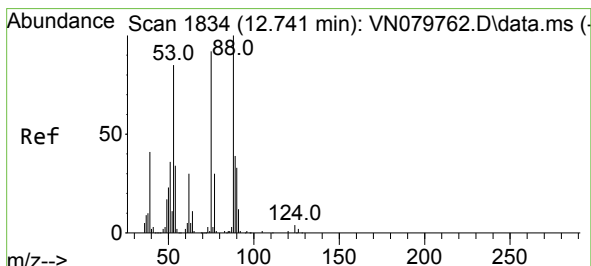
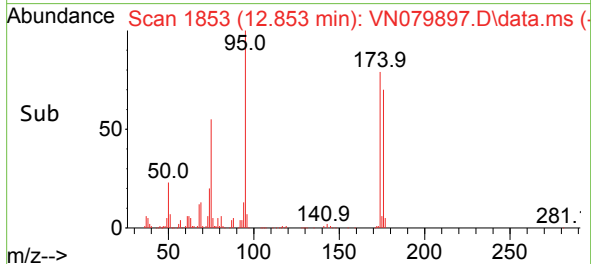
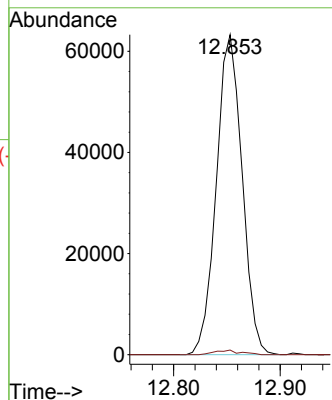
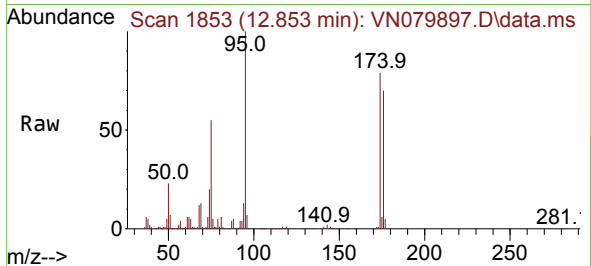




#76
1,2,3-Trichloropropane
Concen: 24.863 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

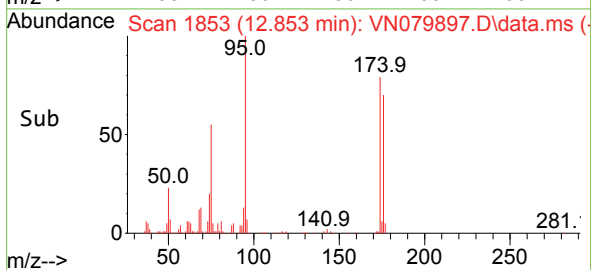
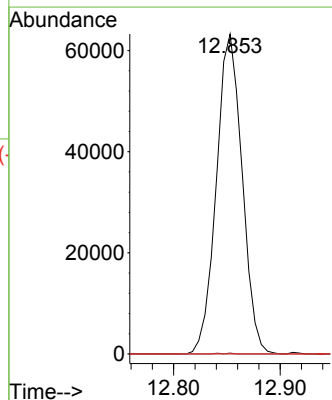
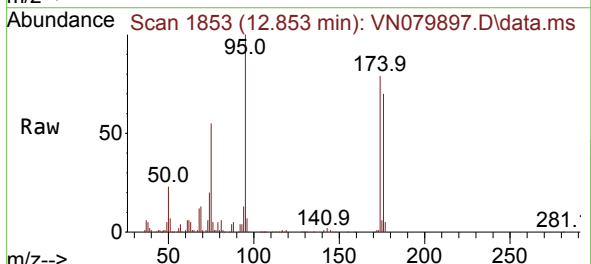
Instrument : MSVOA_N
ClientSampleId : FSND-MW-EVAL-02S-20231101DL

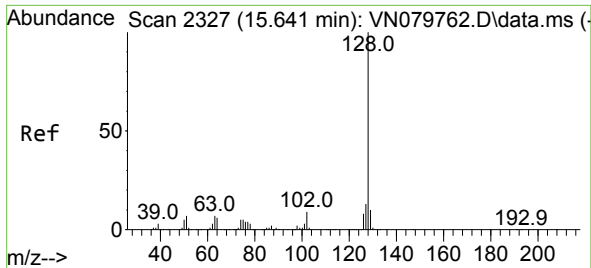
Tgt Ion: 75 Resp: 106139
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 67.647 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

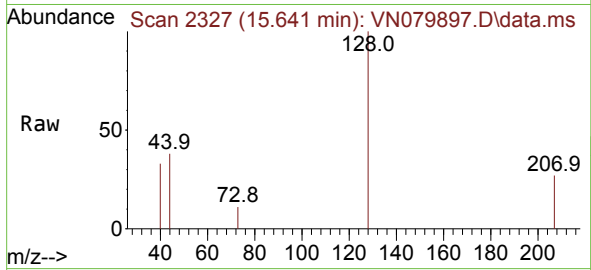
Tgt Ion: 75 Resp: 106139
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#





#95
Naphthalene
Concen: 0.204 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN079897.D
Acq: 04 Nov 2023 16:53

Instrument :
MSVOA_N
ClientSampleId :
FSND-MW-EVAL-02S-20231101DL



Tgt Ion:128 Resp: 1952
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

