

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110423\
 Data File : VN079895.D
 Acq On : 04 Nov 2023 16:05
 Operator : JC\MD
 Sample : 05222-04DL 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FSND-FD-3-20231101DL

Quant Time: Nov 06 02:15:19 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)

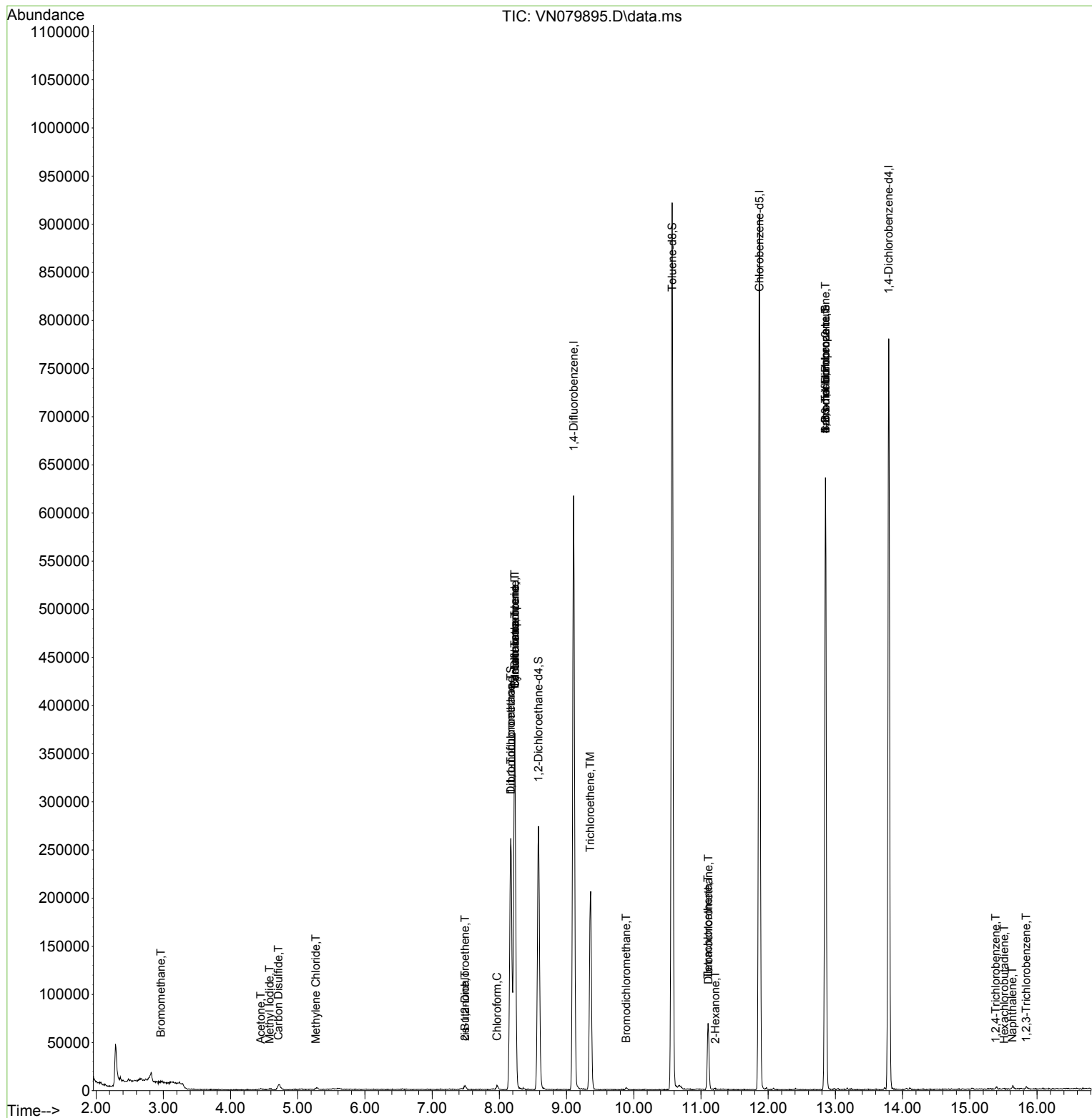
Internal Standards						
1) Pentafluorobenzene	8.230	168	250628	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	506314	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	506223	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	196882	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	220915	57.855	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 115.720%			
35) Dibromofluoromethane	8.171	113	182415	50.904	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.800%			
50) Toluene-d8	10.571	98	620712	47.052	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 94.100%			
62) 4-Bromofluorobenzene	12.853	95	210746	48.169	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 96.340%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	1507	Below Cal		99
5) Bromomethane	2.965	94	893	0.372	ug/l	93
10) Methyl Iodide	4.583	142	1201	0.369	ug/l #	69
16) Acetone	4.447	43	2381	1.775	ug/l	94
17) Carbon Disulfide	4.712	76	1769	0.227	ug/l #	75
20) Methylene Chloride	5.271	84	702	0.207	ug/l #	55
25) 2-Butanone	7.488	43	500	0.255	ug/l #	37
27) cis-1,2-Dichloroethene	7.488	96	2163	0.601	ug/l	90
30) Chloroform	7.965	83	3301	0.522	ug/l	92
31) Cyclohexane	8.230	56	6572	1.303	ug/l #	37
32) 1,1,1-Trichloroethane	8.171	97	5917	1.149	ug/l #	49
36) 1,1-Dichloropropene	8.230	75	23575	4.608	ug/l #	47
38) Carbon Tetrachloride	8.230	117	28300	5.488	ug/l #	15
44) Trichloroethene	9.353	130	75650	19.893	ug/l	99
47) Bromodichloromethane	9.888	83	1820	0.319	ug/l #	81
59) 2-Hexanone	11.212	43	763	0.215	ug/l	64
60) Dibromochloromethane	11.112	129	14551	3.720	ug/l #	11
64) Tetrachloroethene	11.106	164	15264	4.656	ug/l	93
71) Bromoform	12.853	173	1667	0.593	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	116599	25.226	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	116599	68.634	ug/l #	15
93) 1,2,4-Trichlorobenzene	15.388	180	1003	0.328	ug/l #	87
94) Hexachlorobutadiene	15.511	225	316	0.228	ug/l #	56
95) Naphthalene	15.635	128	3885	0.375	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.841	180	876	0.293	ug/l #	69

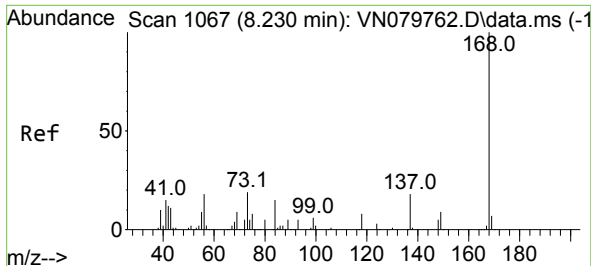
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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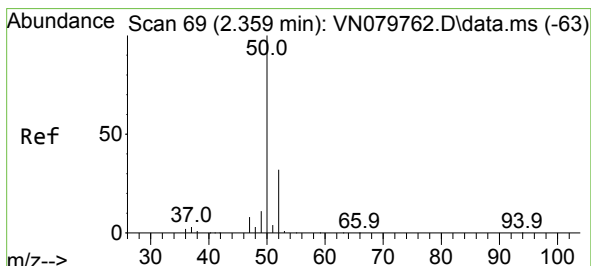
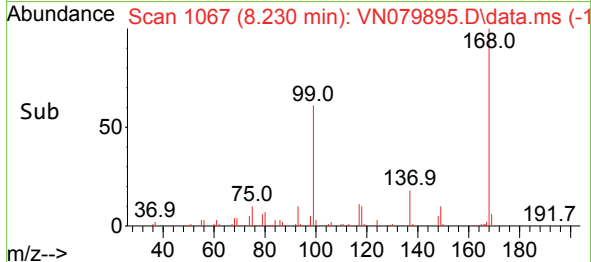
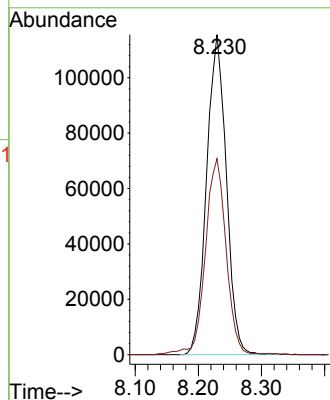
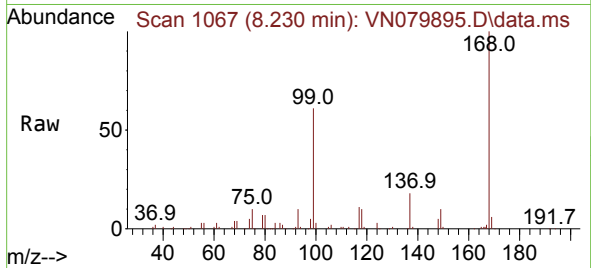




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. 0.001 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

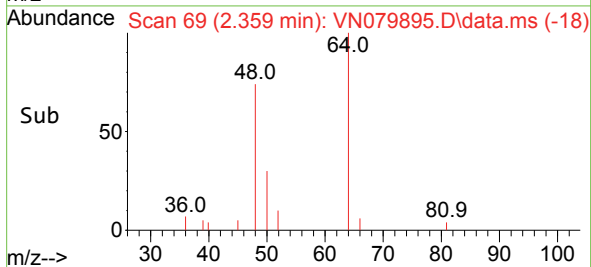
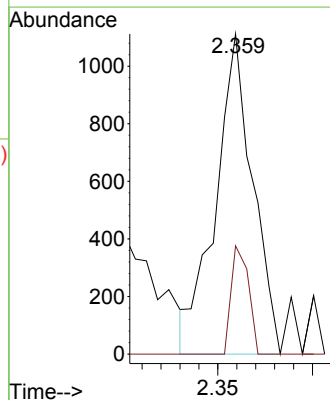
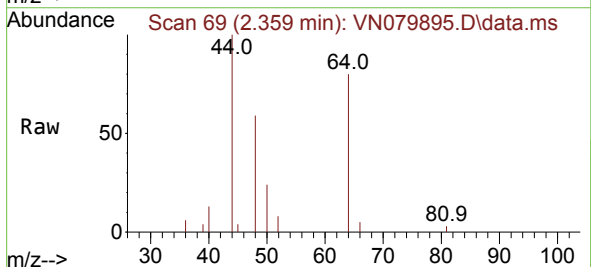
Instrument :
MSVOA_N
ClientSampleId :
FSND-FD-3-20231101DL

Tgt Ion:168 Resp: 250628
Ion Ratio Lower Upper
168 100
99 61.0 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

Tgt Ion: 50 Resp: 1507
Ion Ratio Lower Upper
50 100
52 33.8 26.5 39.7

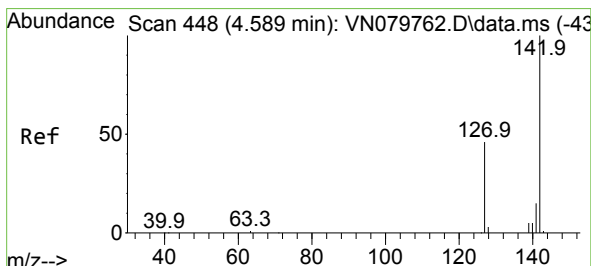
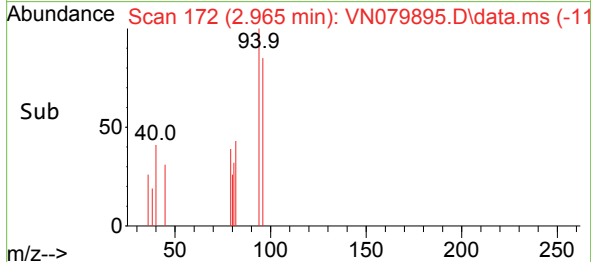
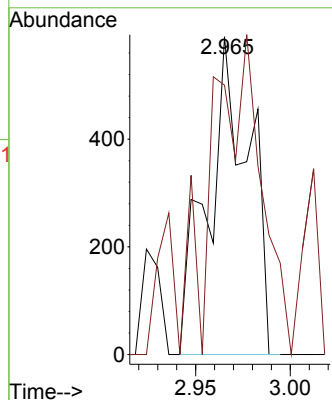
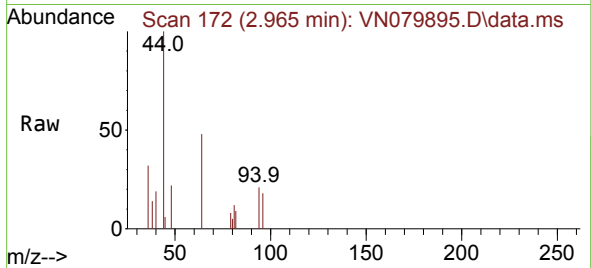




#5
Bromomethane
Concen: 0.372 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

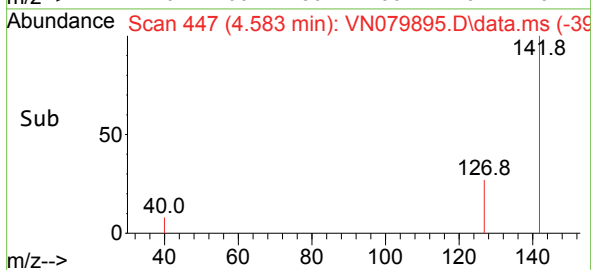
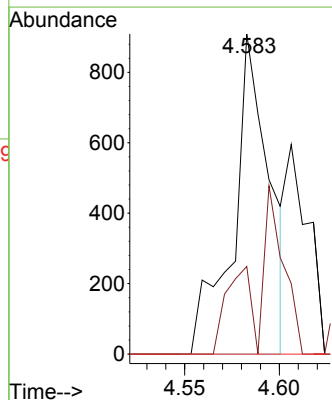
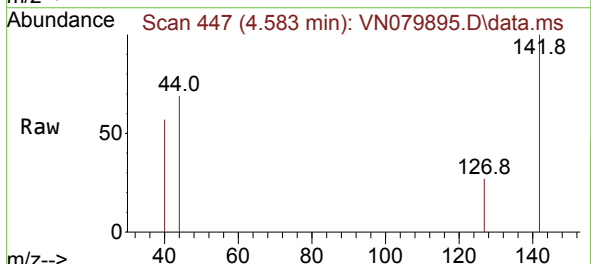
Instrument :
MSVOA_N
ClientSampleId :
FSND-FD-3-20231101DL

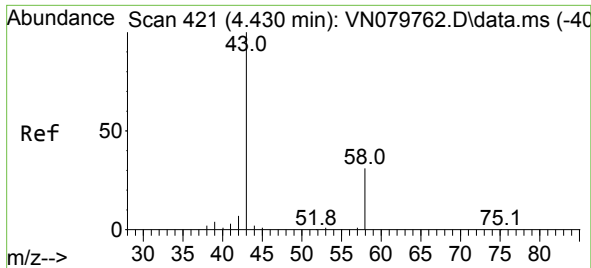
Tgt Ion: 94 Resp: 893
Ion Ratio Lower Upper
94 100
96 84.7 73.1 109.7



#10
Methyl Iodide
Concen: 0.369 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.012 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

Tgt Ion:142 Resp: 1201
Ion Ratio Lower Upper
142 100
127 27.4 37.6 56.4#
141 0.0 11.4 17.0#





#16

Acetone

Concen: 1.775 ug/l

RT: 4.447 min Scan# 41

Delta R.T. 0.018 min

Lab File: VN079895.D

Acq: 04 Nov 2023 16:05

Instrument :

MSVOA_N

ClientSampleId :

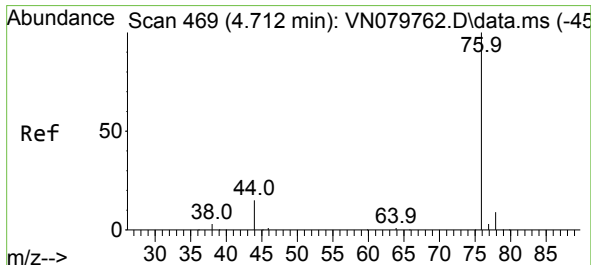
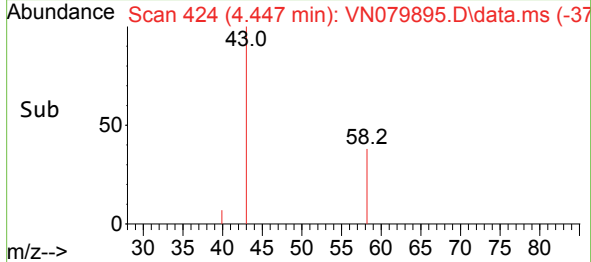
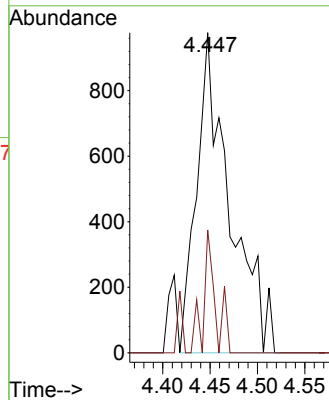
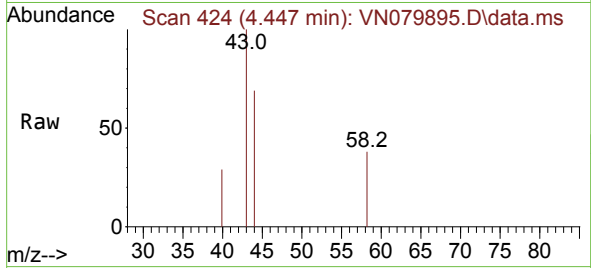
FSND-FD-3-20231101DL

Tgt Ion: 43 Resp: 2381

Ion Ratio Lower Upper

43 100

58 38.4 28.0 42.0



#17

Carbon Disulfide

Concen: 0.227 ug/l

RT: 4.712 min Scan# 469

Delta R.T. 0.000 min

Lab File: VN079895.D

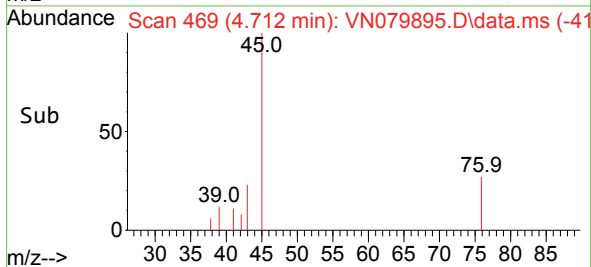
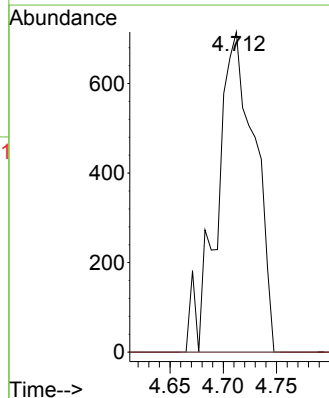
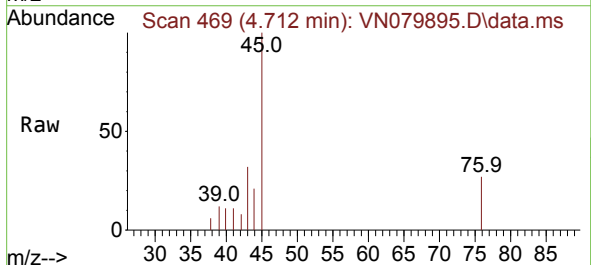
Acq: 04 Nov 2023 16:05

Tgt Ion: 76 Resp: 1769

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#

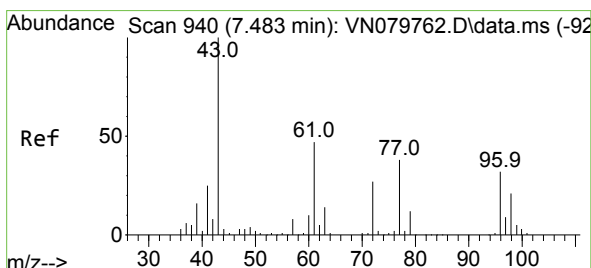
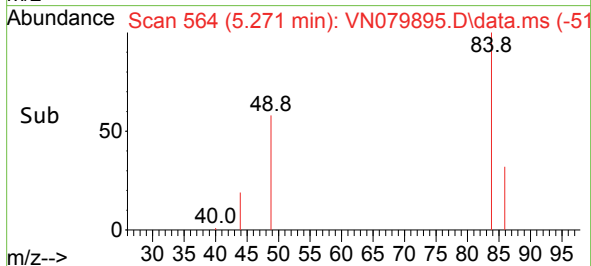
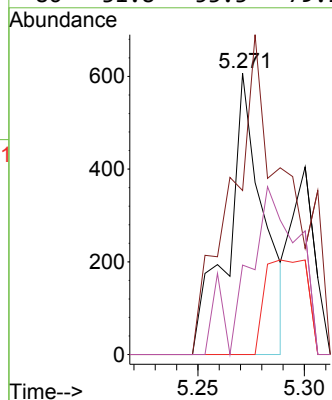
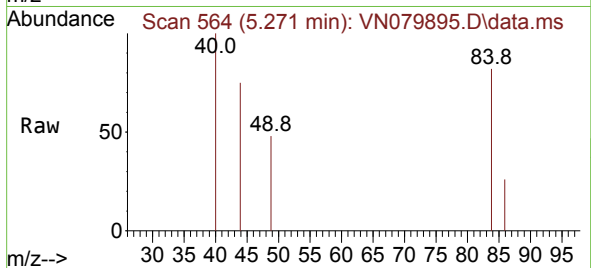




#20
Methylene Chloride
Concen: 0.207 ug/l
RT: 5.271 min Scan# 501
Delta R.T. 0.000 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

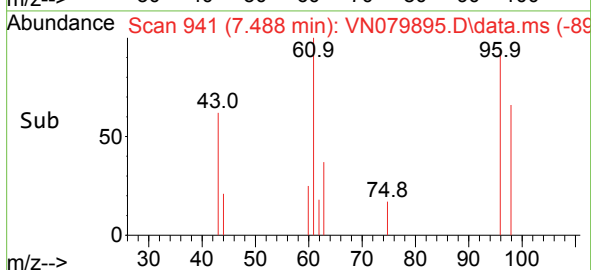
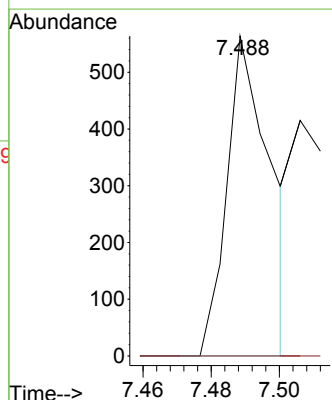
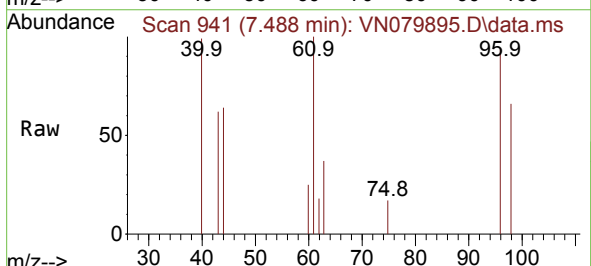
Instrument :
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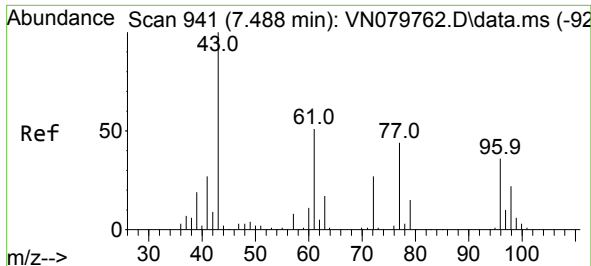
Tgt Ion:	84	Resp:	702
Ion	Ratio	Lower	Upper
84	100		
49	58.3	79.7	119.5#
51	0.0	25.2	37.8#
86	31.8	53.3	79.9#



#25
2-Butanone
Concen: 0.255 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.000 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

Tgt Ion:	43	Resp:	500
Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.2	45.2#

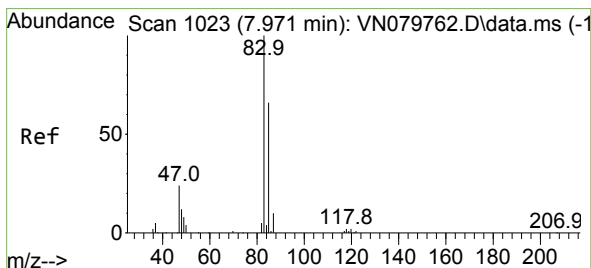
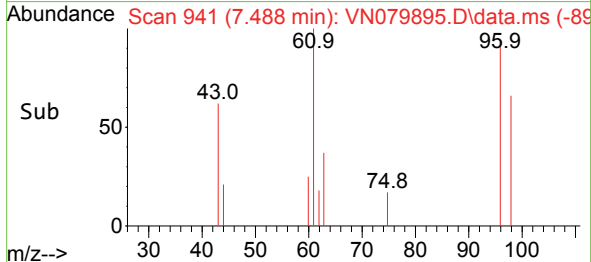
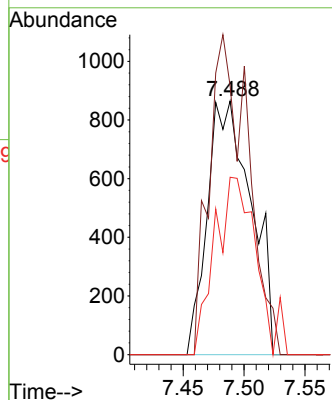
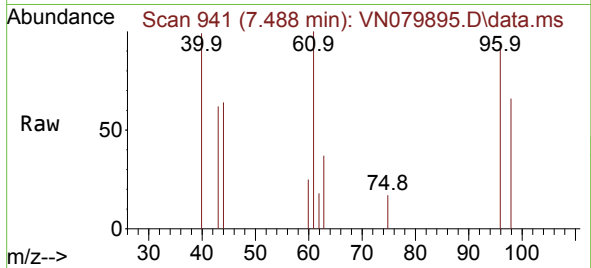




#27
 cis-1,2-Dichloroethene
 Concen: 0.601 ug/l
 RT: 7.488 min Scan# 941
 Delta R.T. 0.000 min
 Lab File: VN079895.D
 Acq: 04 Nov 2023 16:05

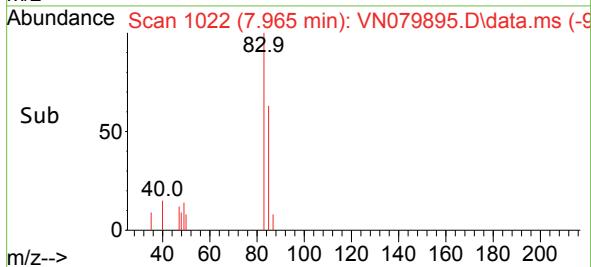
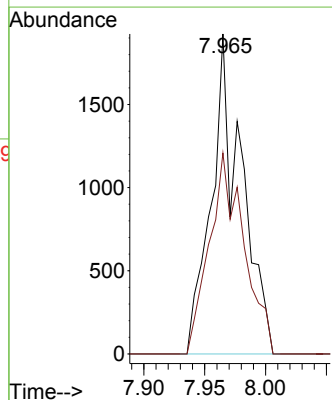
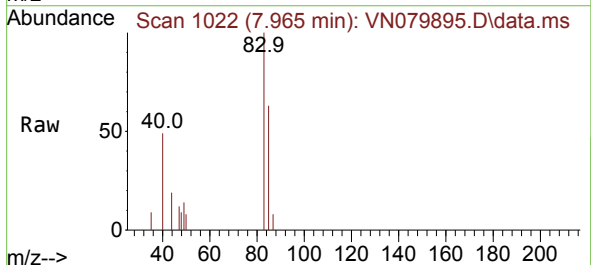
Instrument :
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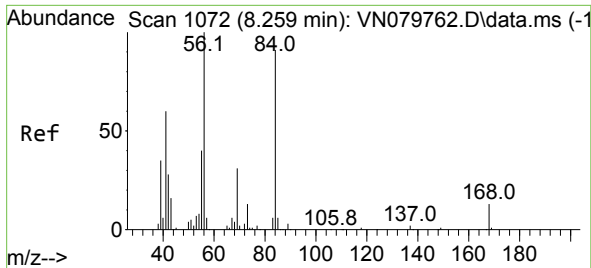
Tgt Ion: 96	Resp:	2163	
Ion	Ratio	Lower	Upper
96	100		
61	111.8	0.0	255.2
98	66.4	0.0	128.8



#30
 Chloroform
 Concen: 0.522 ug/l
 RT: 7.965 min Scan# 1022
 Delta R.T. -0.006 min
 Lab File: VN079895.D
 Acq: 04 Nov 2023 16:05

Tgt Ion: 83	Resp:	3301	
Ion	Ratio	Lower	Upper
83	100		
85	62.8	55.4	83.0

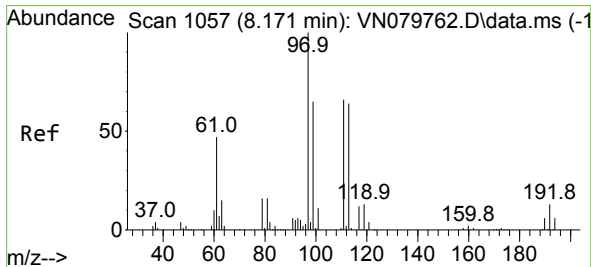
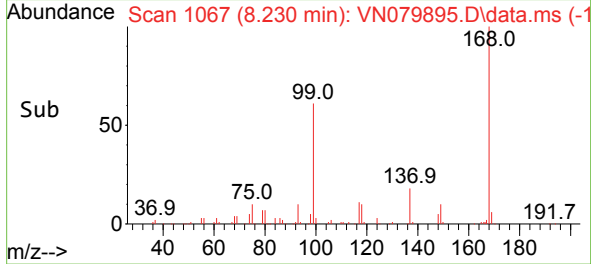
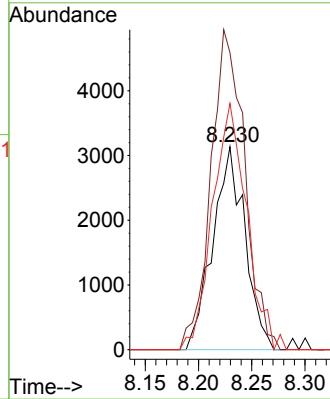
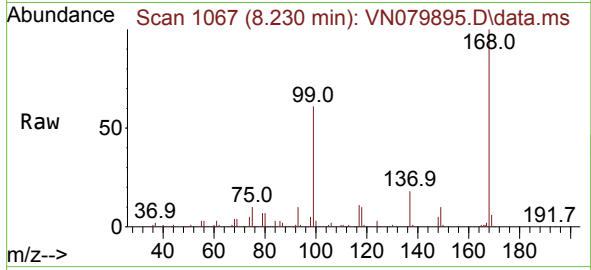




#31
Cyclohexane
Concen: 1.303 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.029 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

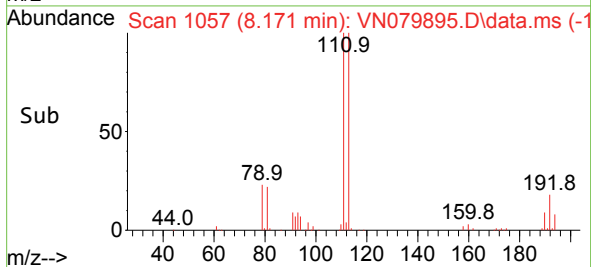
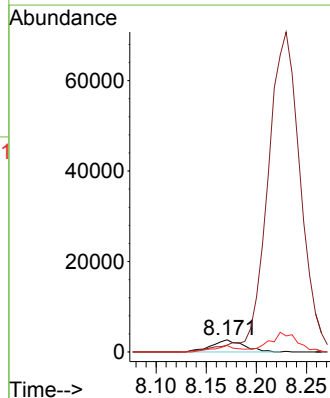
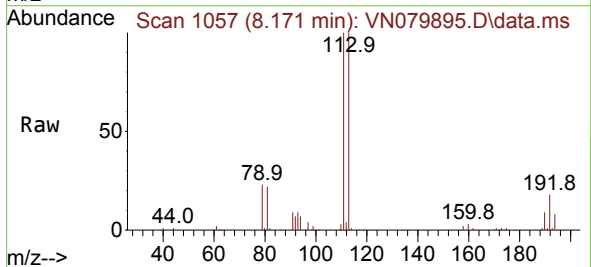
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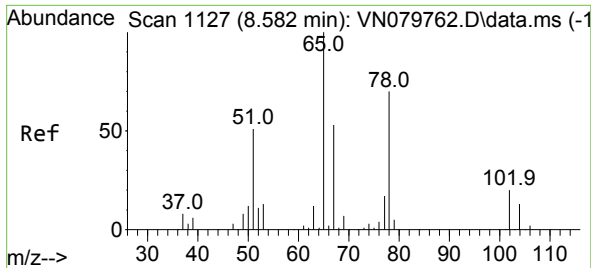
Tgt Ion: 56 Resp: 6572
Ion Ratio Lower Upper
56 100
69 146.4 26.8 40.2#
84 121.3 81.8 122.6



#32
1,1,1-Trichloroethane
Concen: 1.149 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. 0.000 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

Tgt Ion: 97 Resp: 5917
Ion Ratio Lower Upper
97 100
99 0.0 50.3 75.5#
61 39.1 34.7 52.1

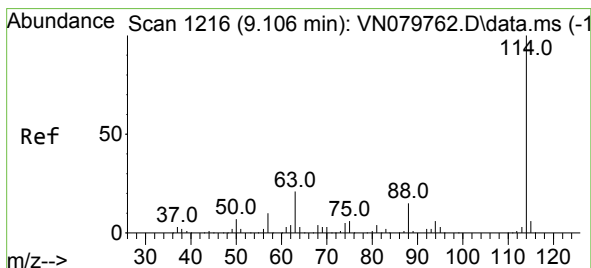
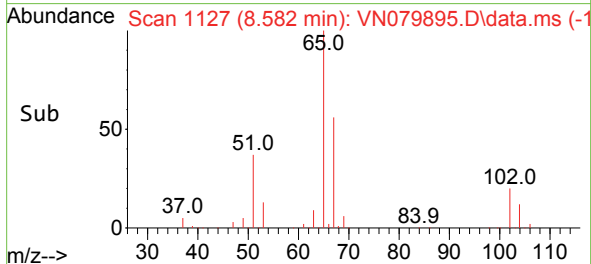
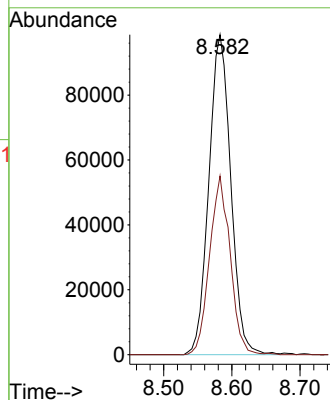
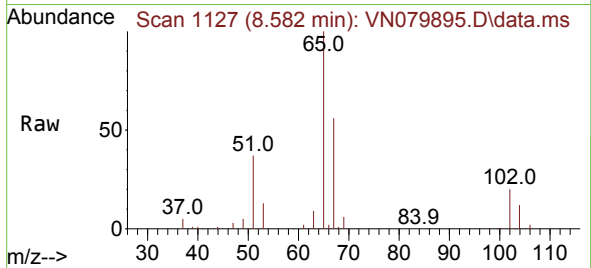




#33
 1,2-Dichloroethane-d4
 Concen: 57.855 ug/l
 RT: 8.582 min Scan# 1127
 Delta R.T. 0.000 min
 Lab File: VN079895.D
 Acq: 04 Nov 2023 16:05

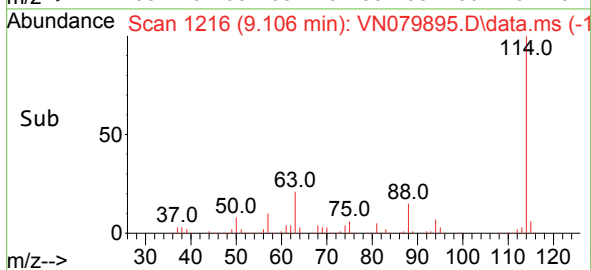
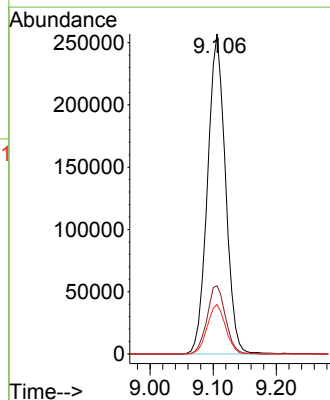
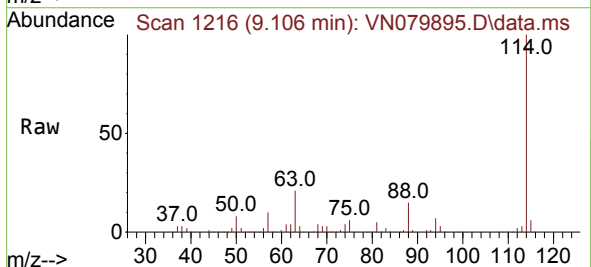
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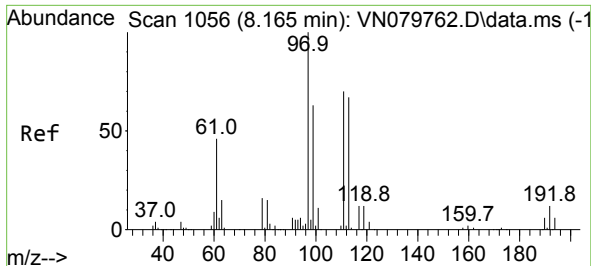
Tgt Ion: 65 Resp: 220915
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.106 min Scan# 1216
 Delta R.T. 0.000 min
 Lab File: VN079895.D
 Acq: 04 Nov 2023 16:05

Tgt Ion: 114 Resp: 506314
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 36.4
 88 15.4 0.0 30.6

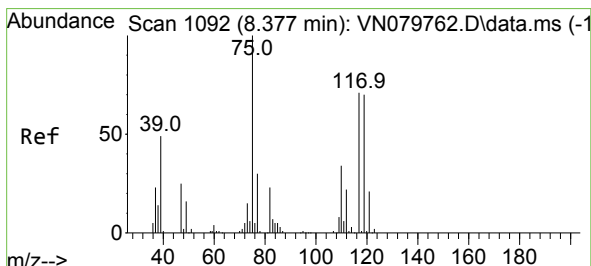
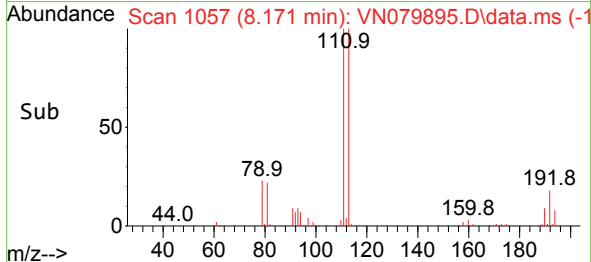
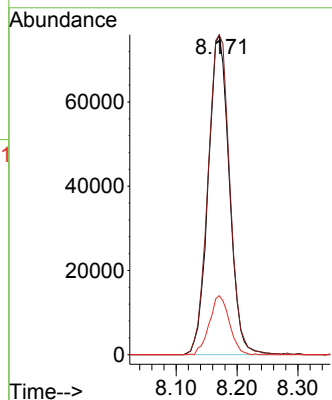
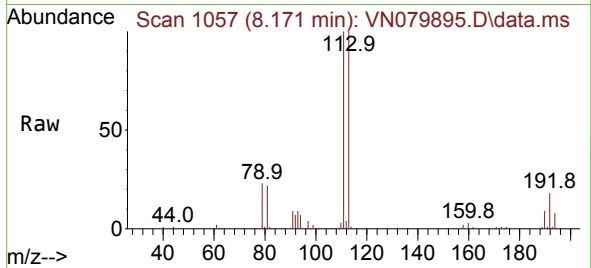




#35
Dibromofluoromethane
Concen: 50.904 ug/l
RT: 8.171 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

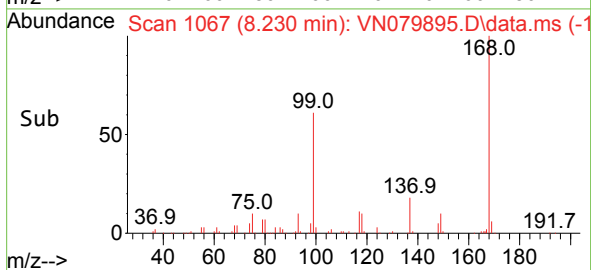
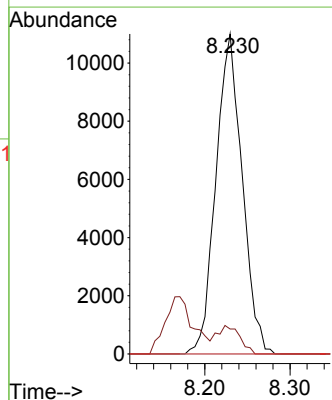
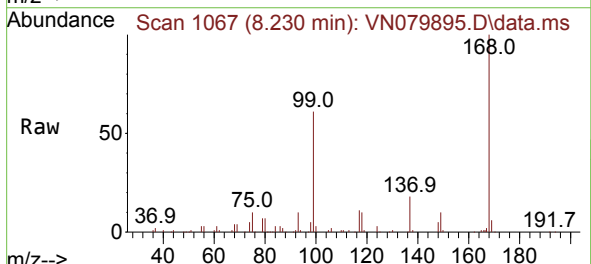
Instrument :
MSVOA_N
ClientSampleId :
FSND-FD-3-20231101DL

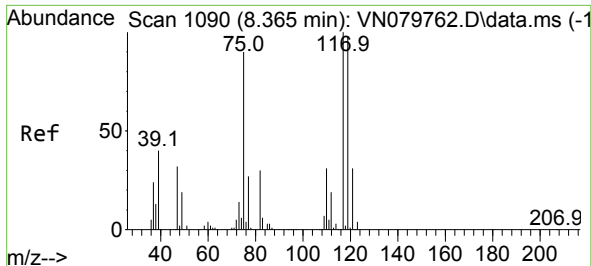
Tgt Ion:113 Resp: 182415
Ion Ratio Lower Upper
113 100
111 103.6 82.6 123.8
192 17.5 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.608 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

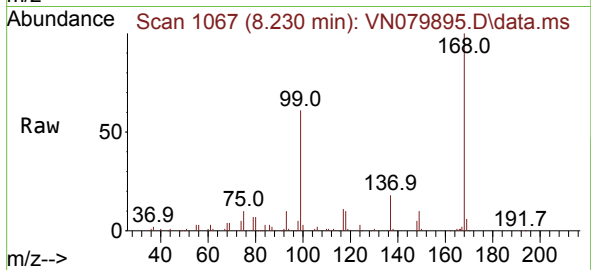
Tgt Ion: 75 Resp: 23575
Ion Ratio Lower Upper
75 100
110 7.7 19.1 57.3#
77 0.0 25.0 37.4#



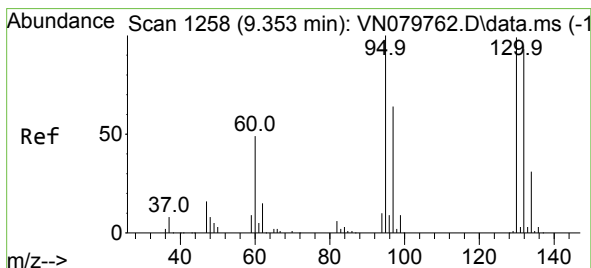
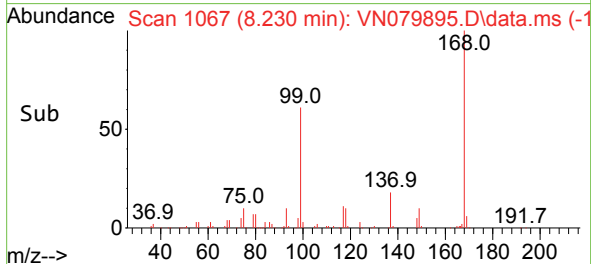
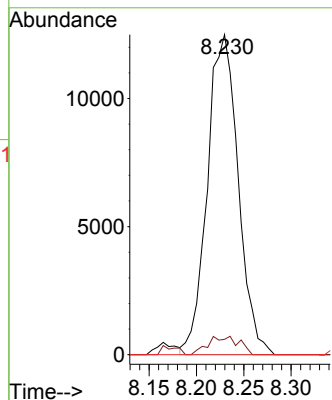


#38
Carbon Tetrachloride
Concen: 5.488 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.129 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

Instrument :
MSVOA_N
ClientSampleId :
FSND-FD-3-20231101DL

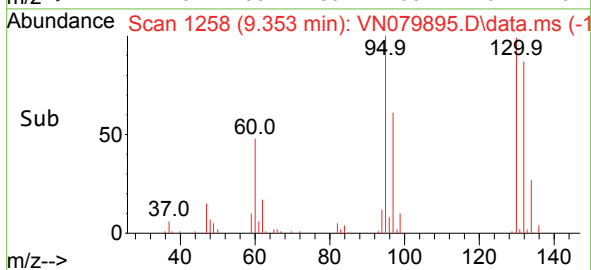
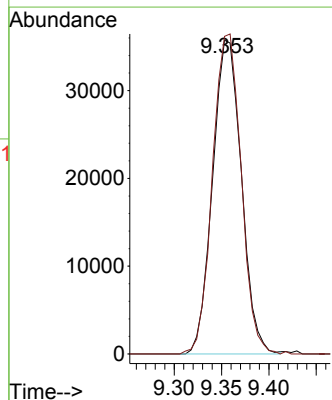
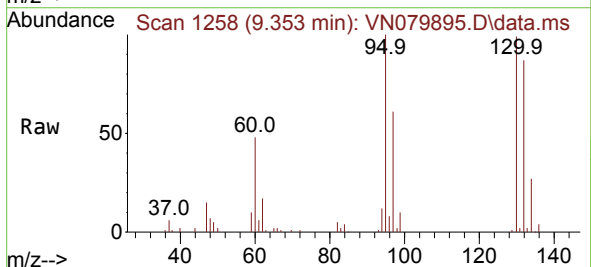


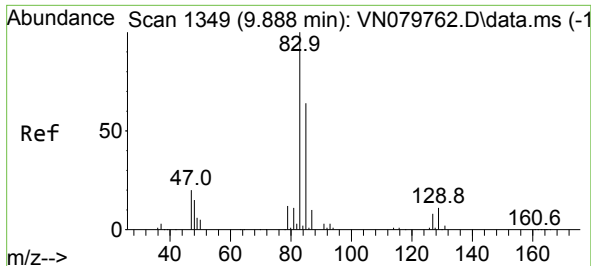
Tgt Ion:117 Resp: 28300
Ion Ratio Lower Upper
117 100
119 4.8 77.3 115.9#
121 0.0 23.3 34.9#



#44
Trichloroethene
Concen: 19.893 ug/l
RT: 9.353 min Scan# 1258
Delta R.T. 0.000 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

Tgt Ion:130 Resp: 75650
Ion Ratio Lower Upper
130 100
95 101.3 0.0 204.6

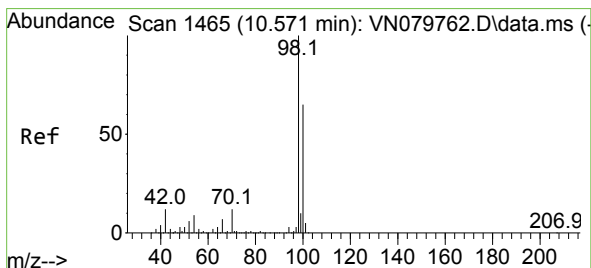
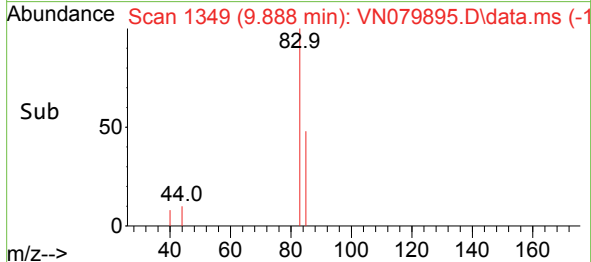
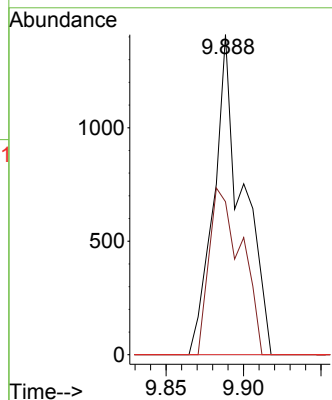
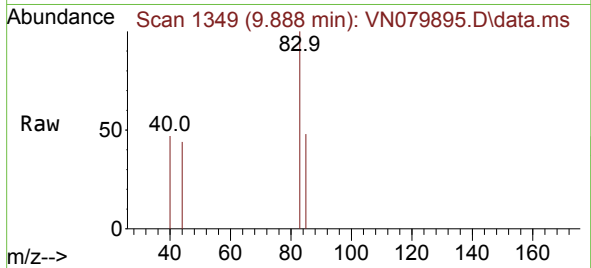




#47
Bromodichloromethane
Concen: 0.319 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

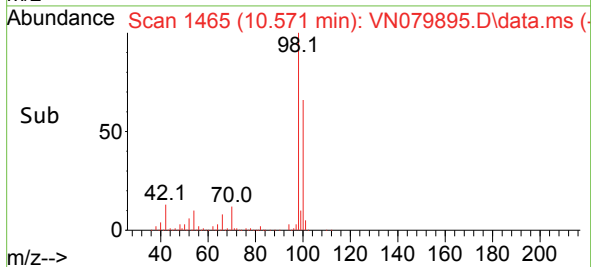
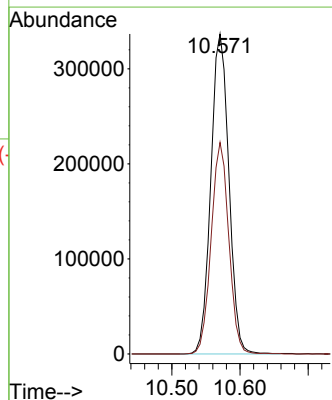
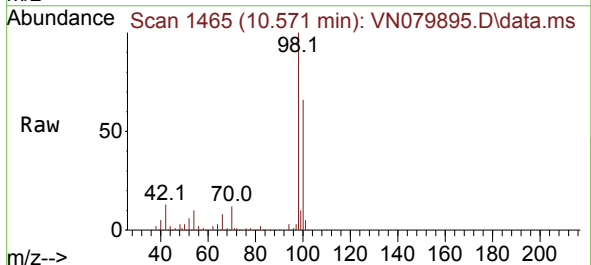
Instrument :
MSVOA_N
ClientSampleId :
FSND-FD-3-20231101DL

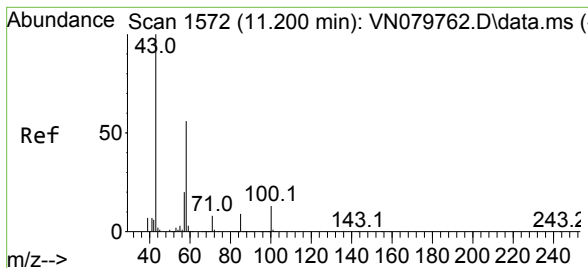
Tgt Ion: 83 Resp: 1820
Ion Ratio Lower Upper
83 100
85 47.8 49.6 74.4#
127 0.0 7.0 10.6#



#50
Toluene-d8
Concen: 47.052 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

Tgt Ion: 98 Resp: 620712
Ion Ratio Lower Upper
98 100
100 64.6 52.0 78.0

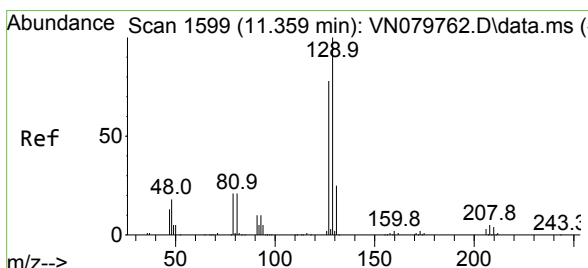
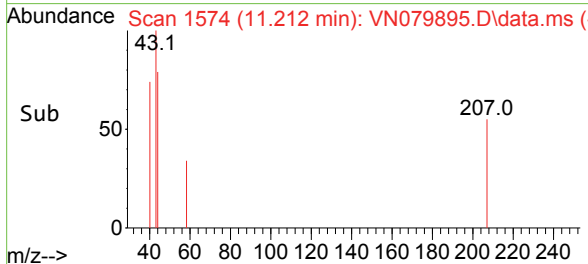
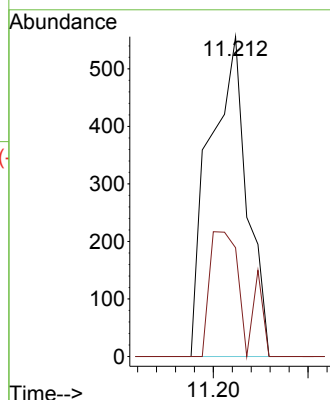
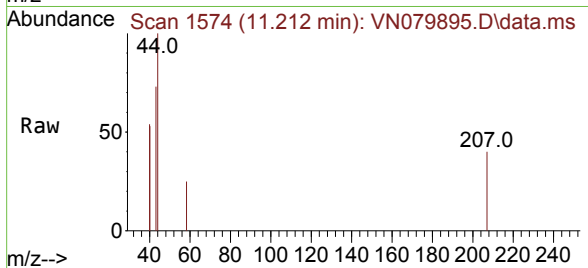




#59
2-Hexanone
Concen: 0.215 ug/l
RT: 11.212 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

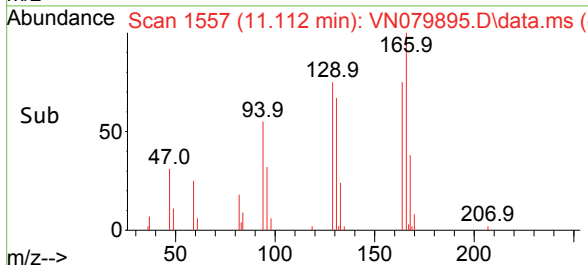
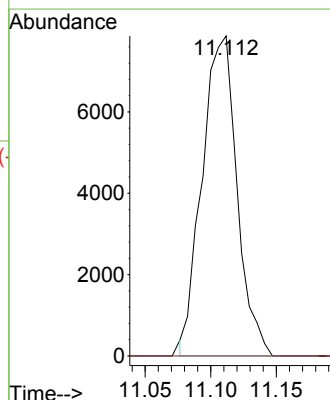
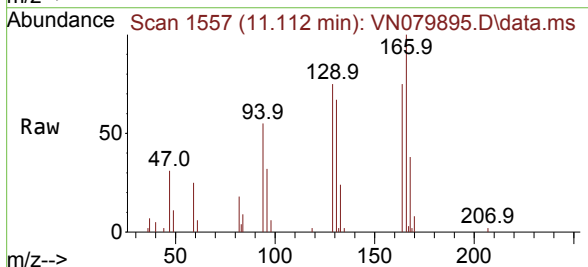
Instrument :
MSVOA_N
ClientSampleId :
FSND-FD-3-20231101DL

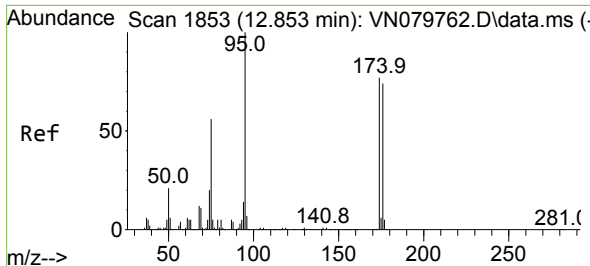
Tgt Ion: 43 Resp: 763
Ion Ratio Lower Upper
43 100
58 35.6 31.7 95.1



#60
Dibromochloromethane
Concen: 3.720 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. -0.253 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

Tgt Ion: 129 Resp: 14551
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

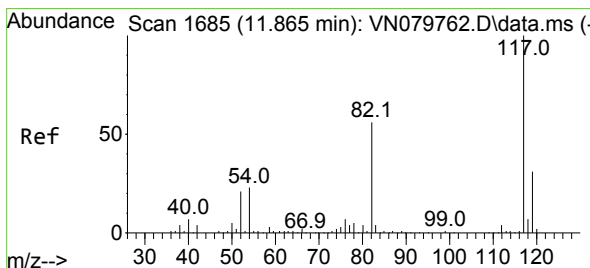
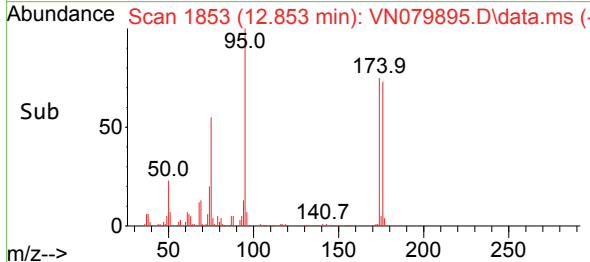
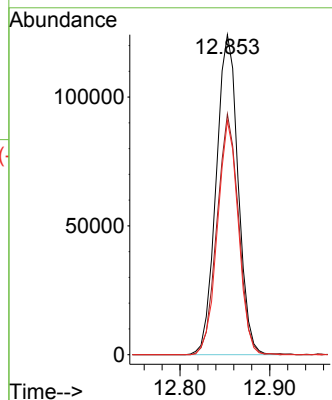
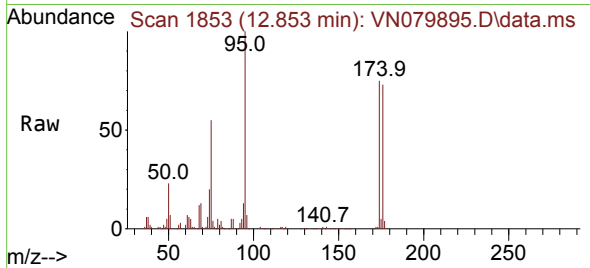




#62
4-Bromofluorobenzene
Concen: 48.169 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

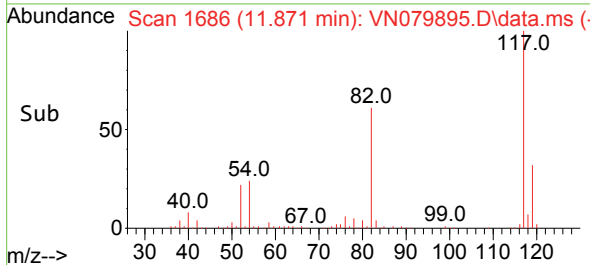
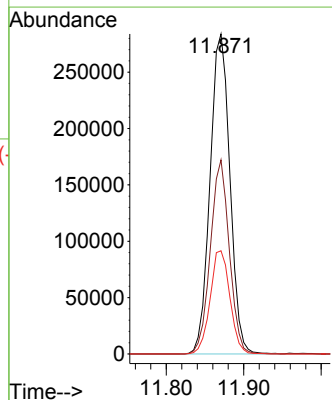
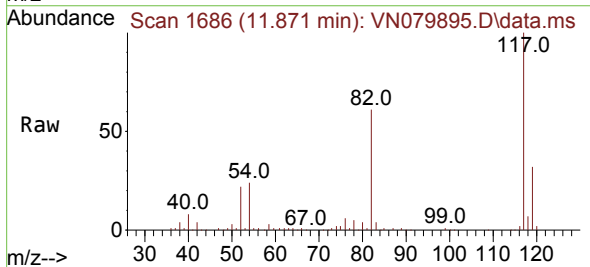
Instrument :
MSVOA_N
ClientSampleId :
FSND-FD-3-20231101DL

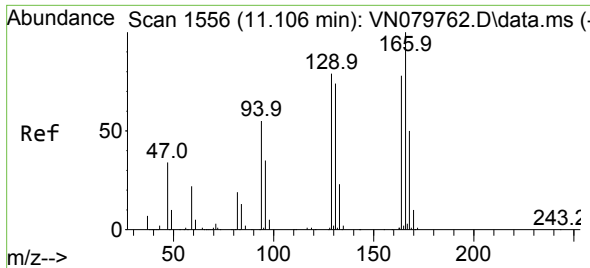
Tgt Ion: 95 Resp: 210746
Ion Ratio Lower Upper
95 100
174 73.7 0.0 143.8
176 69.6 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

Tgt Ion: 117 Resp: 506223
Ion Ratio Lower Upper
117 100
82 60.7 44.0 66.0
119 32.3 25.6 38.4

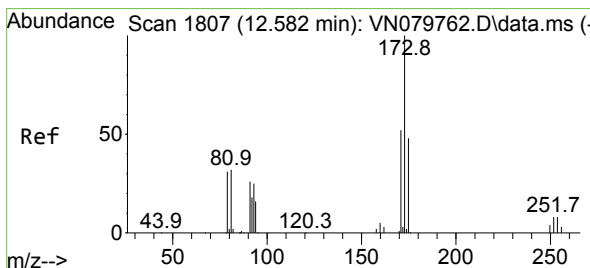
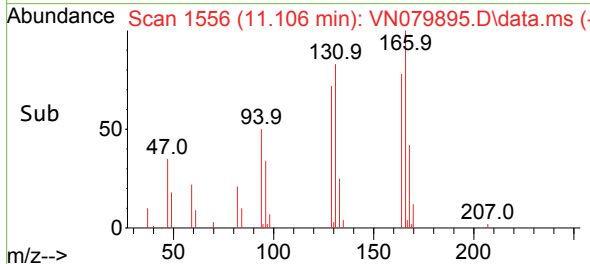
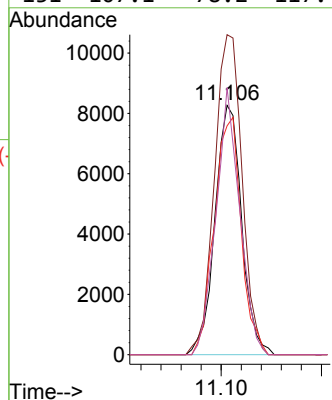
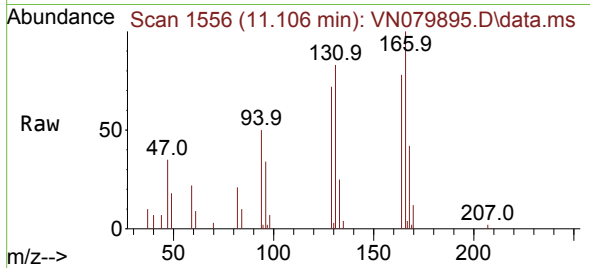




#64
Tetrachloroethene
Concen: 4.656 ug/l
RT: 11.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

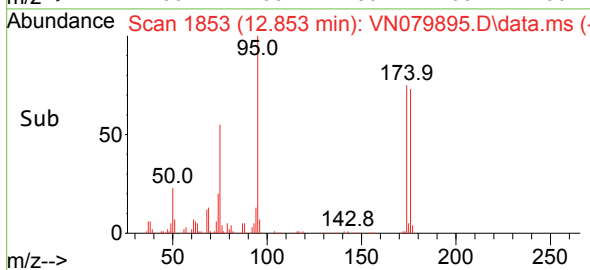
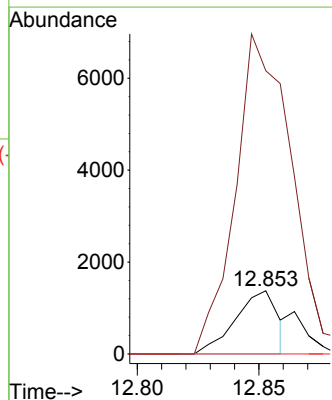
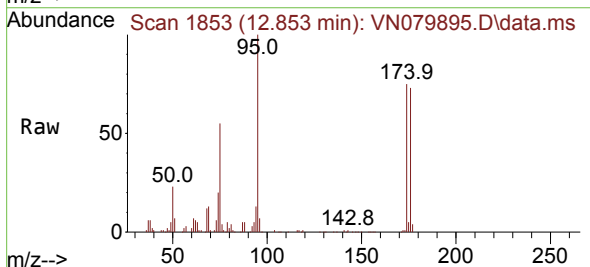
Instrument :
MSVOA_N
ClientSampleId :
FSND-FD-3-20231101DL

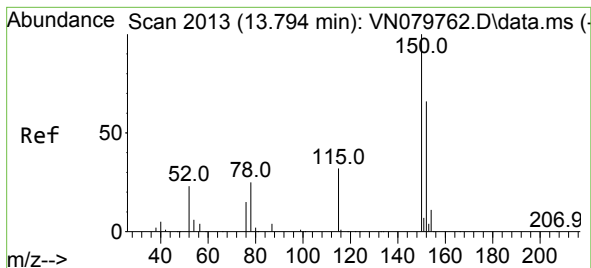
Tgt Ion:164 Resp: 15264
Ion Ratio Lower Upper
164 100
166 128.3 101.4 152.0
129 91.8 82.4 123.6
131 107.1 78.2 117.4



#71
Bromoform
Concen: 0.593 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

Tgt Ion:173 Resp: 1667
Ion Ratio Lower Upper
173 100
175 534.5 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: VN079895.D

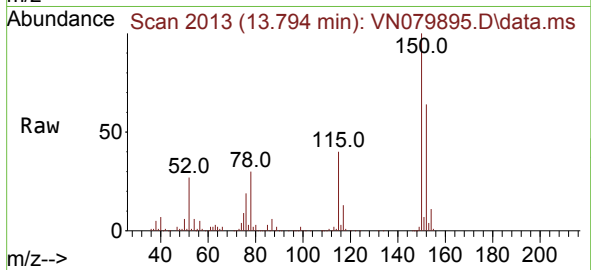
Acq: 04 Nov 2023 16:05

Instrument :

MSVOA_N

ClientSampleId :

FSND-FD-3-20231101DL



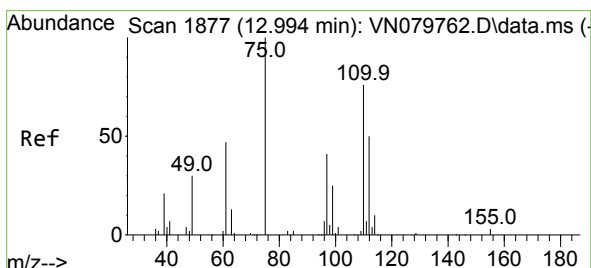
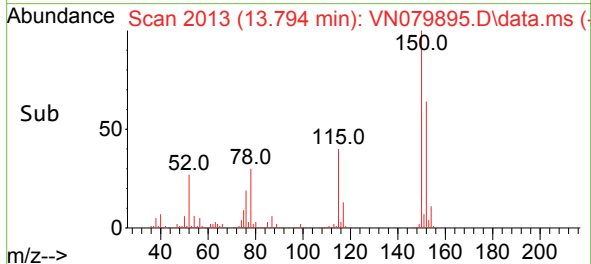
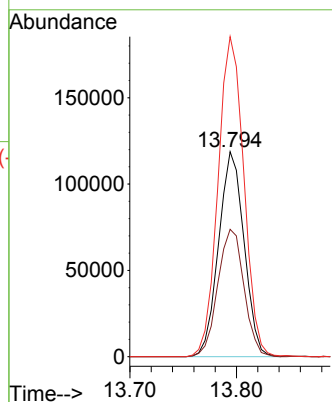
Tgt Ion:152 Resp: 196882

Ion Ratio Lower Upper

152 100

115 63.8 32.3 96.8

150 158.4 0.0 355.8



#76

1,2,3-Trichloropropane

Concen: 25.226 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.141 min

Lab File: VN079895.D

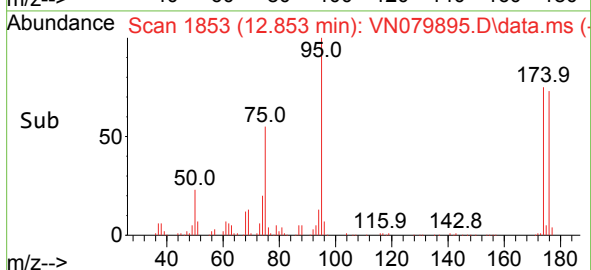
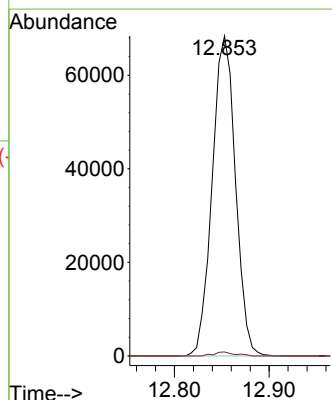
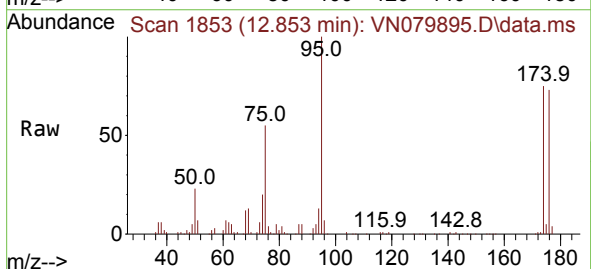
Acq: 04 Nov 2023 16:05

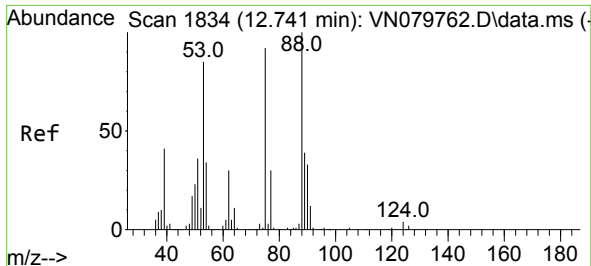
Tgt Ion: 75 Resp: 116599

Ion Ratio Lower Upper

75 100

77 1.1 84.5 253.5#

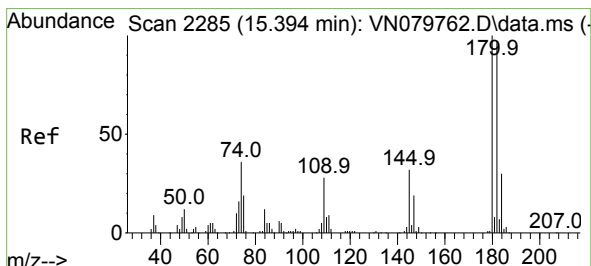
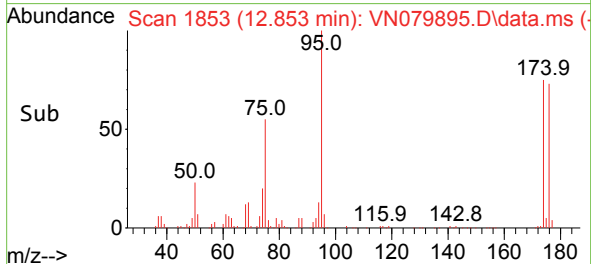
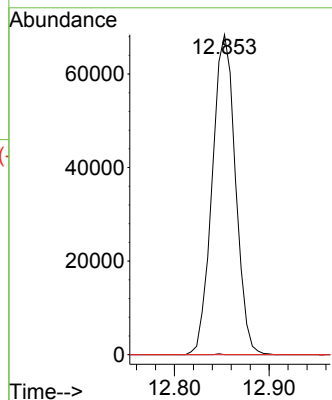
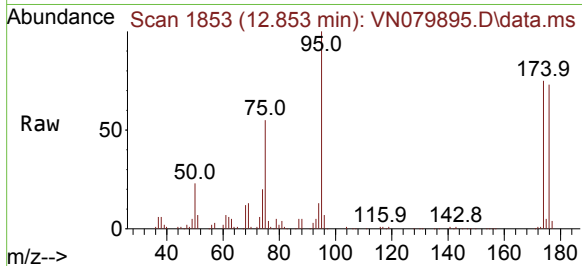




#81
trans-1,4-Dichloro-2-butene
Concen: 68.634 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

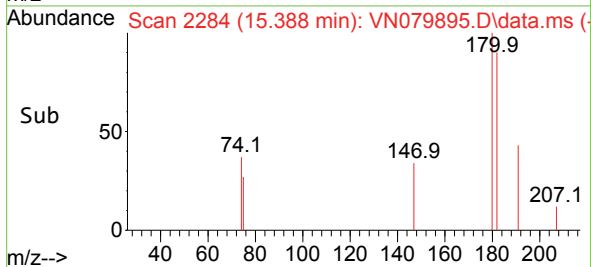
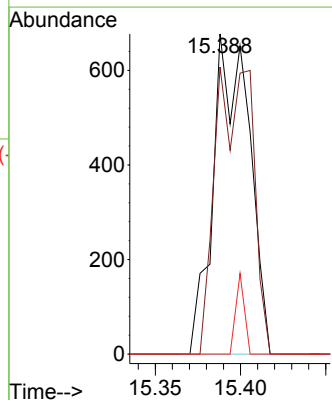
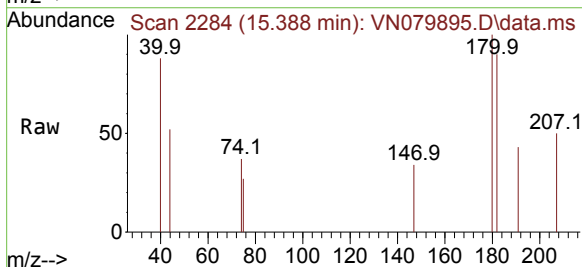
Instrument :
MSVOA_N
ClientSampleId :
FSND-FD-3-20231101DL

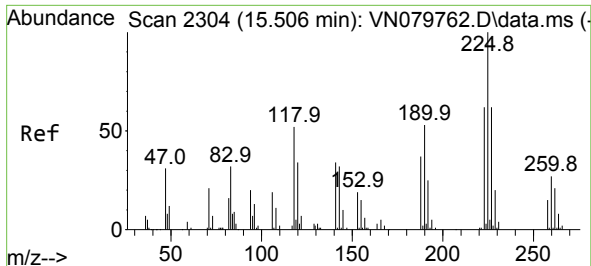
Tgt Ion: 75 Resp: 116599
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#



#93
1,2,4-Trichlorobenzene
Concen: 0.328 ug/l
RT: 15.388 min Scan# 2284
Delta R.T. -0.006 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

Tgt Ion:180 Resp: 1003
Ion Ratio Lower Upper
180 100
182 92.5 46.1 138.2
145 6.0 16.6 49.8#

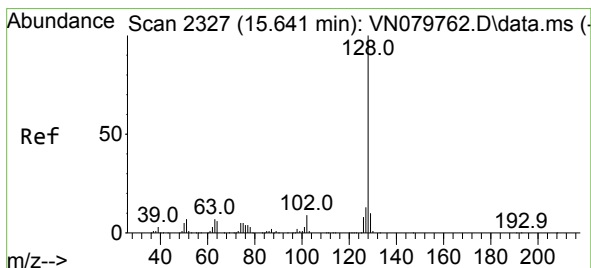
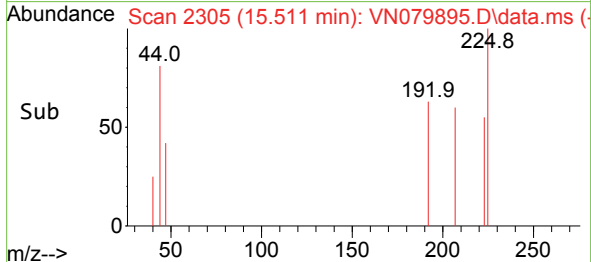
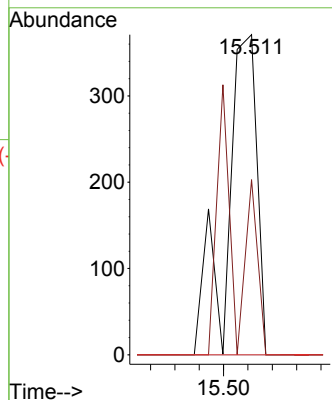
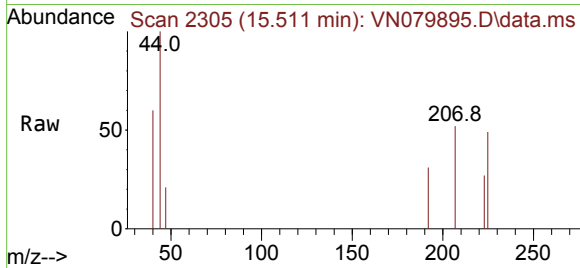




#94
Hexachlorobutadiene
Concen: 0.228 ug/l
RT: 15.511 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

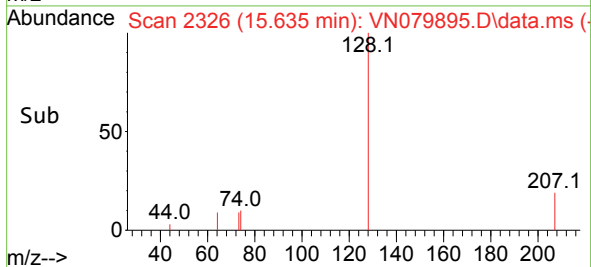
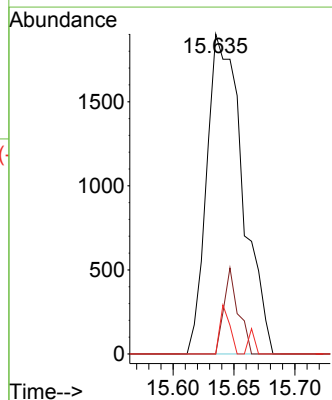
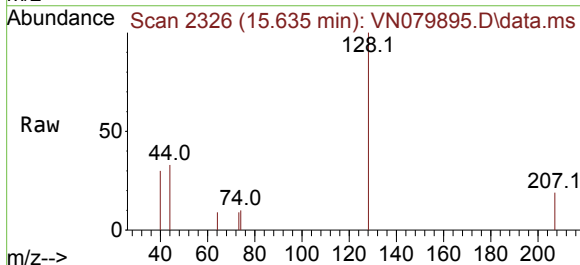
Instrument :
MSVOA_N
ClientSampleId :
FSND-FD-3-20231101DL

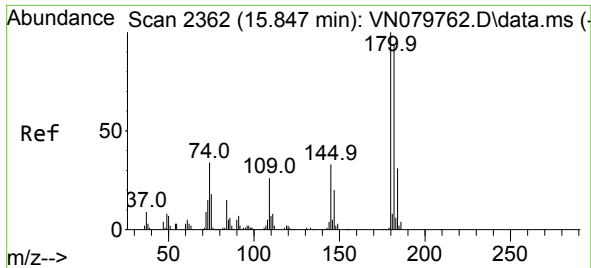
Tgt Ion	Ratio	Lower	Upper
225	100		
223	57.6	31.3	93.8
227	0.0	31.9	95.9#



#95
Naphthalene
Concen: 0.375 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN079895.D
Acq: 04 Nov 2023 16:05

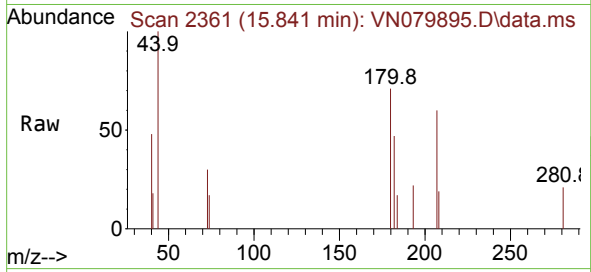
Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.9	10.0	15.0
129	4.2	8.7	13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.293 ug/l
 RT: 15.841 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN079895.D
 Acq: 04 Nov 2023 16:05

Instrument :
 MSVOA_N
 ClientSampleId :
 FSND-FD-3-20231101DL



Tgt Ion:	180	Resp:	876
Ion Ratio	Lower	Upper	
180	100		
182	111.3	46.2	138.6
145	0.0	17.5	52.6#

