

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072823\
 Data File : VN078683.D
 Acq On : 28 Jul 2023 14:26
 Operator : JC\MD
 Sample : 03831-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-16-20230727

Quant Time: Jul 29 00:48:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071023W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 10 16:13:53 2023
 Response via : Initial Calibration

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

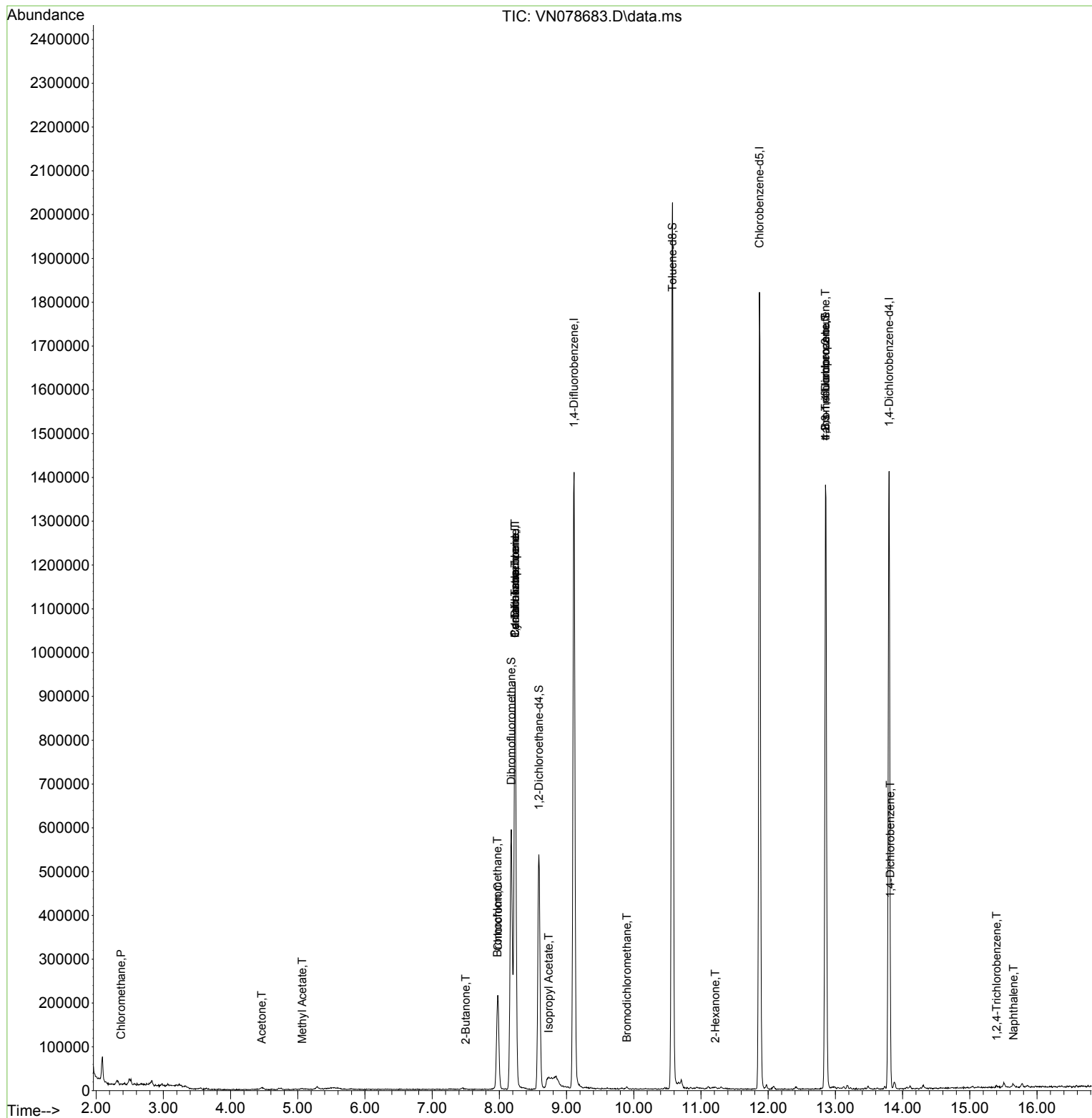
Internal Standards						
1) Pentafluorobenzene	8.235	168	696536	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	1267062	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	1131111	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	399783	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	450452	48.240	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.480%		
35) Dibromofluoromethane	8.177	113	440008	51.157	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	102.320%		
50) Toluene-d8	10.576	98	1514754	46.618	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.240%		
62) 4-Bromofluorobenzene	12.853	95	531579	53.113	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	106.220%		
Target Compounds						Qvalue
3) Chloromethane	2.371	50	2995	0.323	ug/l	95
5) Bromomethane	2.965	94	1297	Below Cal		97
6) Chloroethane	3.124	64	987	Below Cal #		79
16) Acetone	4.465	43	6918	2.378	ug/l #	65
18) Methyl Acetate	5.065	43	4783	0.388	ug/l #	53
20) Methylene Chloride	5.294	84	4167	Below Cal #		80
25) 2-Butanone	7.500	43	1263	0.276	ug/l #	37
28) Bromochloromethane	7.971	49	14444	2.024	ug/l #	5
30) Chloroform	7.977	83	218596	13.856	ug/l	99
31) Cyclohexane	8.235	56	13646	1.081	ug/l #	1
36) 1,1-Dichloropropene	8.235	75	54452	4.384	ug/l #	47
38) Carbon Tetrachloride	8.235	117	71011	5.261	ug/l #	17
43) Isopropyl Acetate	8.735	43	34156	2.004	ug/l #	49
47) Bromodichloromethane	9.900	83	2963	0.225	ug/l #	96
59) 2-Hexanone	11.212	43	2777	0.385	ug/l	87
75) 1,1,2,2-Tetrachloroethane	12.947	83	980	Below Cal #		94
76) 1,2,3-Trichloropropane	12.853	75	258638	26.765	ug/l #	1
77) Bromobenzene	12.988	156	526	Below Cal #		43
81) trans-1,4-Dichloro-2-b...	12.853	75	258638	70.334	ug/l #	15
88) 1,4-Dichlorobenzene	13.817	146	3744	0.258	ug/l #	1
90) Hexachloroethane	14.347	117	231	Below Cal #		59
92) 1,2-Dibromo-3-Chloropr...	14.729	75	319	Below Cal #		44
93) 1,2,4-Trichlorobenzene	15.400	180	1264	0.276	ug/l	85
94) Hexachlorobutadiene	15.511	225	1982	Below Cal		85
95) Naphthalene	15.653	128	5701	0.364	ug/l #	93

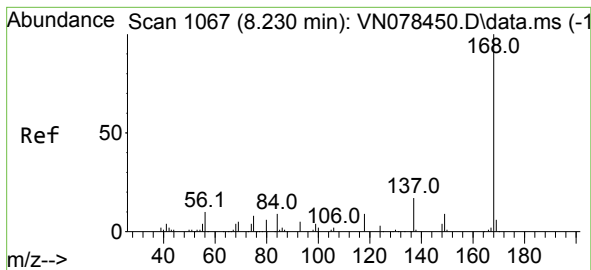
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Jul 10 16:13:53 2023
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 1

Delta R.T. 0.005 min

Lab File: VN078683.D

Acq: 28 Jul 2023 14:26

Instrument :

MSVOA_N

ClientSampleId :

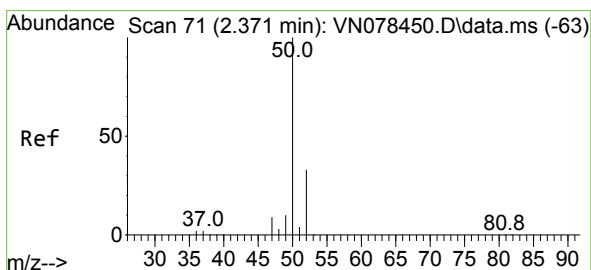
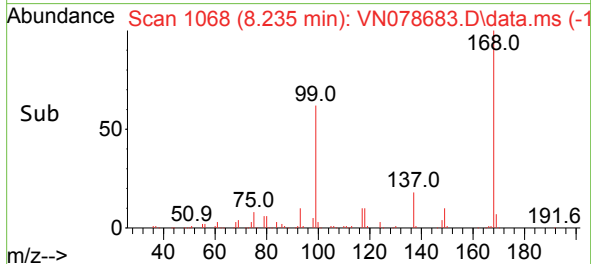
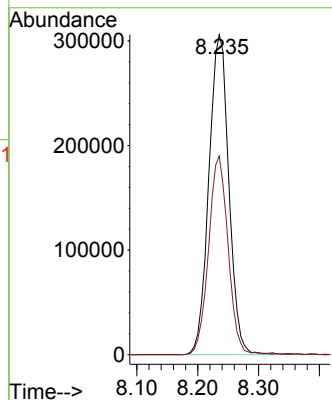
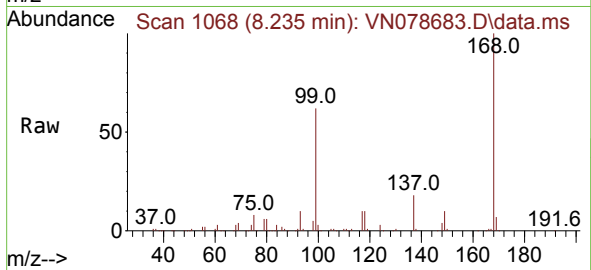
MW-16-20230727

Tgt Ion:168 Resp: 696536

Ion Ratio Lower Upper

168 100

99 62.1 53.0 79.6



#3

Chloromethane

Concen: 0.323 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078683.D

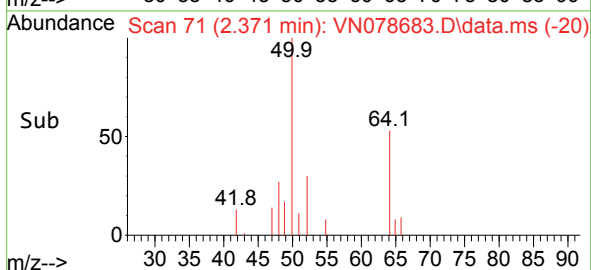
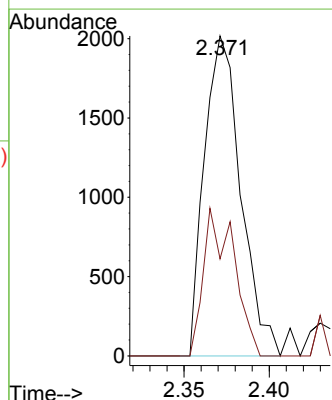
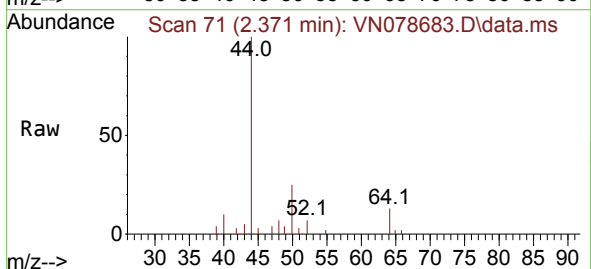
Acq: 28 Jul 2023 14:26

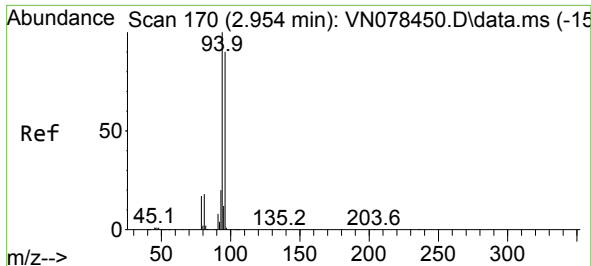
Tgt Ion: 50 Resp: 2995

Ion Ratio Lower Upper

50 100

52 30.3 26.5 39.7

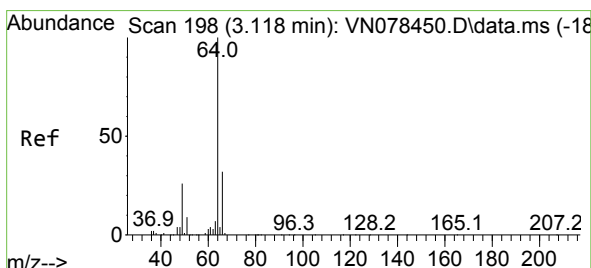
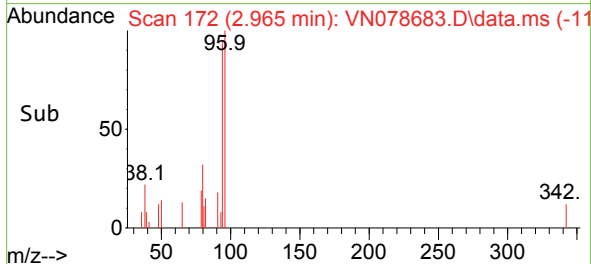
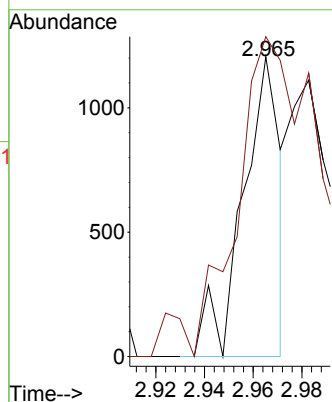
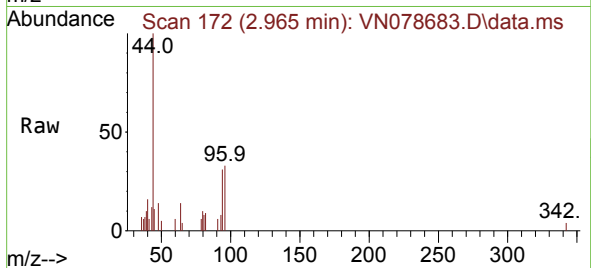




#5
Bromomethane
Concen: Below Cal
RT: 2.965 min Scan# 11
Delta R.T. 0.011 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

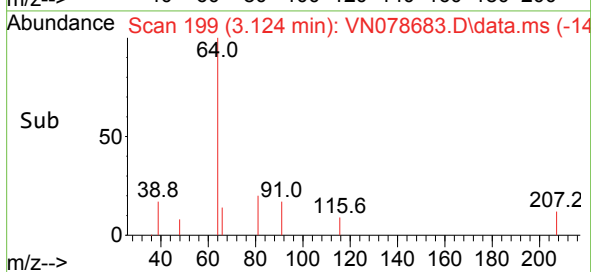
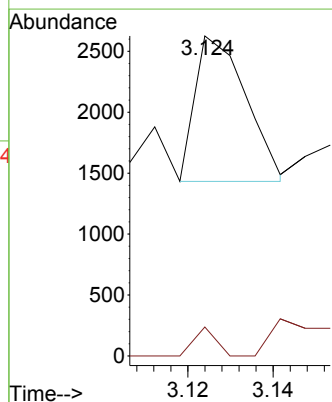
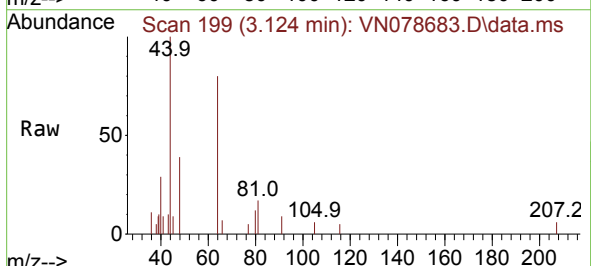
Instrument :
MSVOA_N
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MW-16-20230727

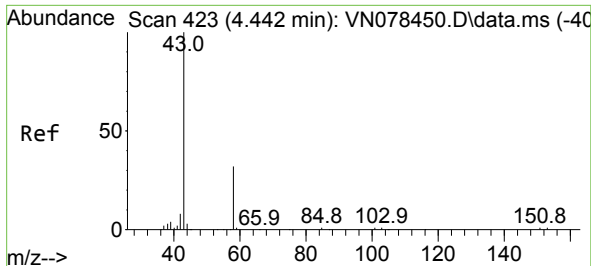
Tgt Ion: 94 Resp: 1297
Ion Ratio Lower Upper
94 100
96 94.1 73.1 109.7



#6
Chloroethane
Concen: Below Cal
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

Tgt Ion: 64 Resp: 987
Ion Ratio Lower Upper
64 100
66 19.9 25.4 38.2#

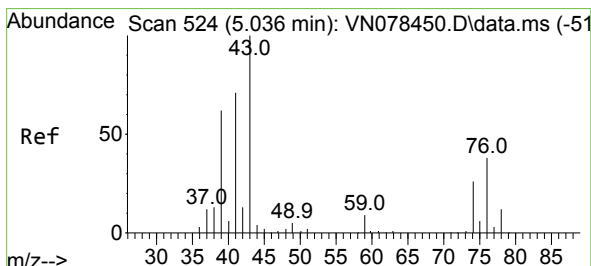
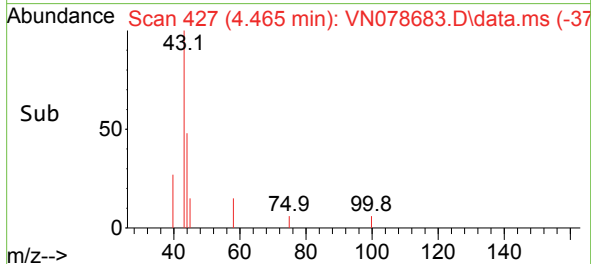
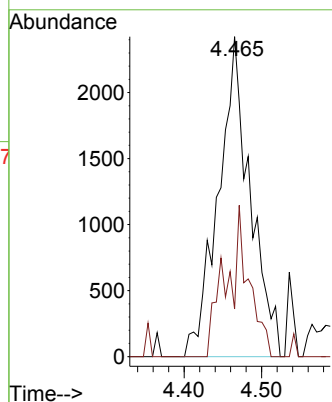
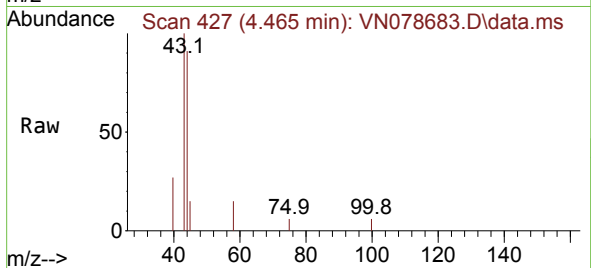




#16
Acetone
Concen: 2.378 ug/l
RT: 4.465 min Scan# 41
Delta R.T. 0.023 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

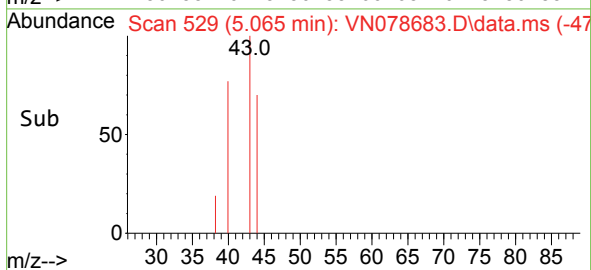
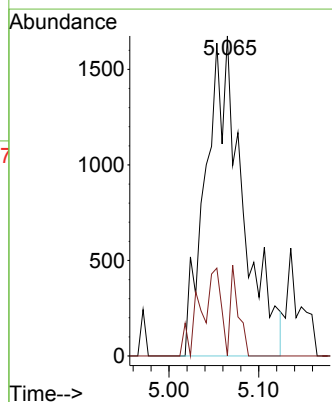
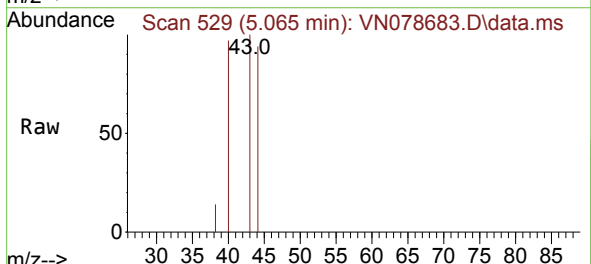
Instrument :
MSVOA_N
ClientSampleId :
MW-16-20230727

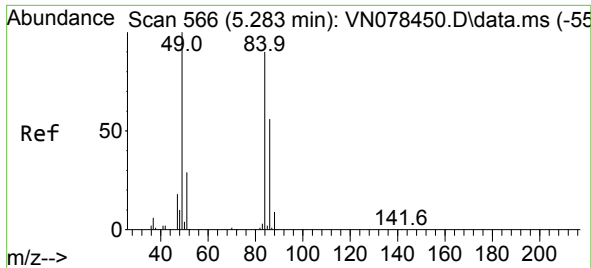
Tgt Ion: 43 Resp: 6918
Ion Ratio Lower Upper
43 100
58 14.9 28.0 42.0#



#18
Methyl Acetate
Concen: 0.388 ug/l
RT: 5.065 min Scan# 529
Delta R.T. 0.029 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

Tgt Ion: 43 Resp: 4783
Ion Ratio Lower Upper
43 100
74 6.3 26.2 39.4#

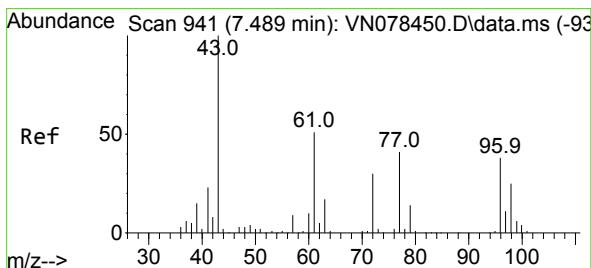
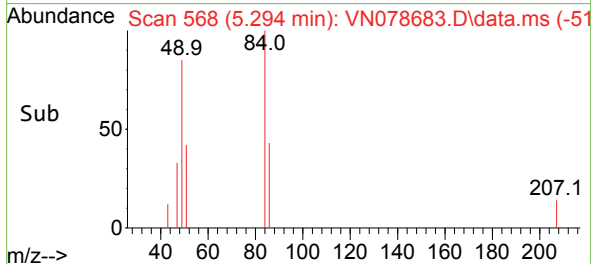
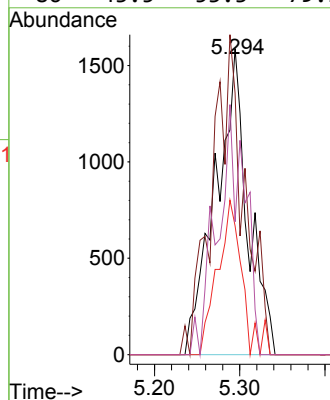
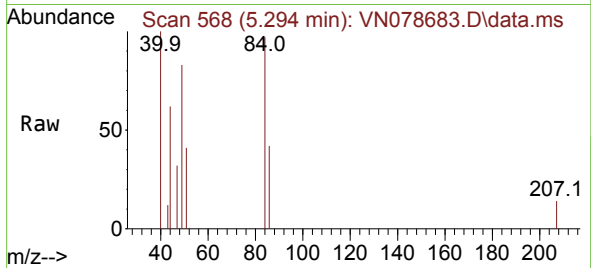




#20
Methylene Chloride
Concen: Below Cal
RT: 5.294 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

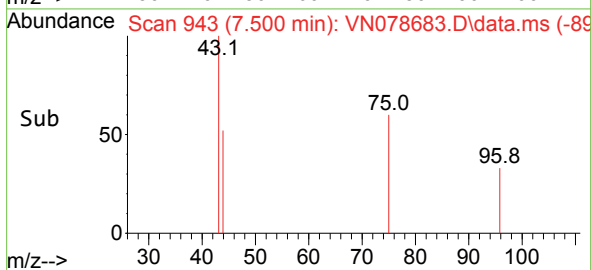
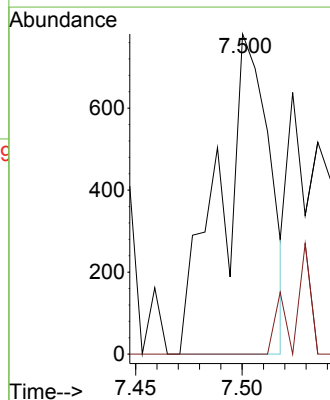
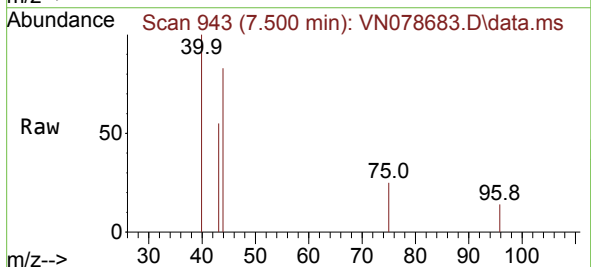
Instrument :
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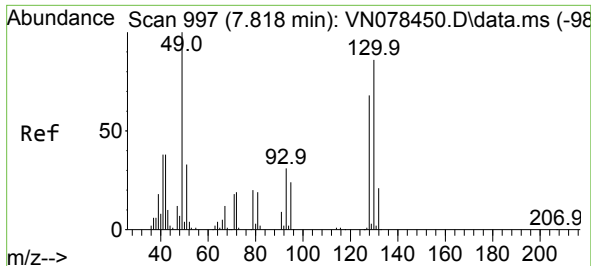
Tgt Ion:	84	Resp:	4167
Ion	Ratio	Lower	Upper
84	100		
49	85.5	79.7	119.5
51	42.1	25.2	37.8#
86	43.5	53.3	79.9#



#25
2-Butanone
Concen: 0.276 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.011 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

Tgt Ion:	43	Resp:	1263
Ion	Ratio	Lower	Upper
43	100		
72	0.0	30.2	45.2#

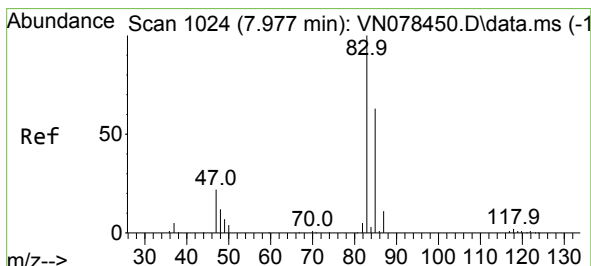
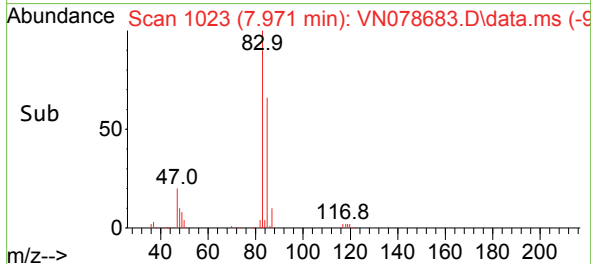
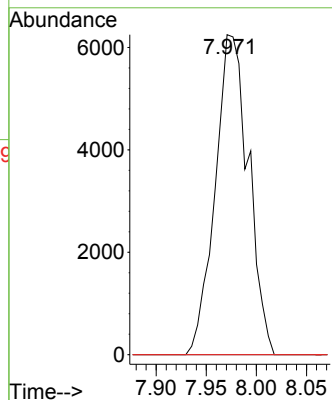
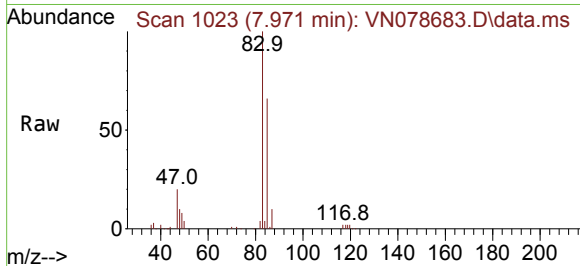




#28
Bromochloromethane
Concen: 2.024 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.153 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

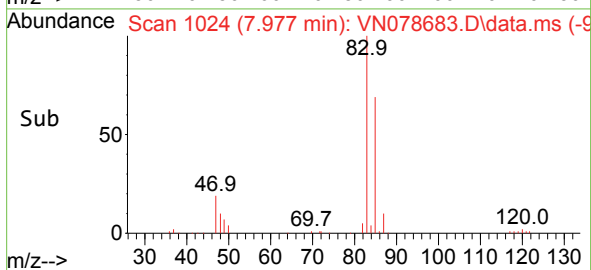
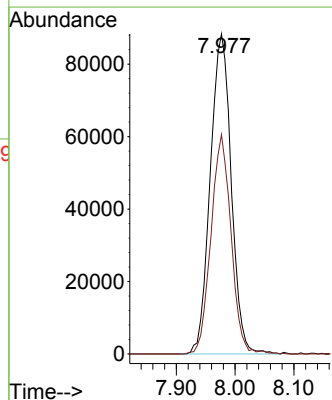
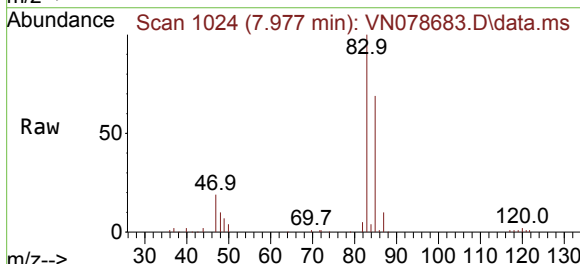
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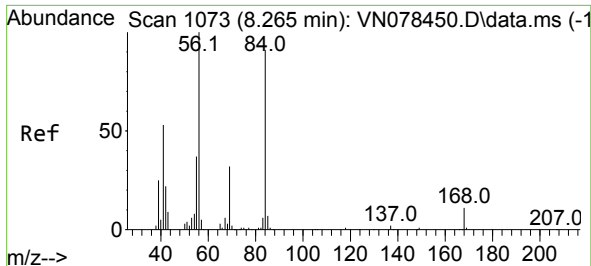
Tgt Ion: 49 Resp: 14444
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.8
130 0.0 75.3 112.9#



#30
Chloroform
Concen: 13.856 ug/l
RT: 7.977 min Scan# 1024
Delta R.T. -0.000 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

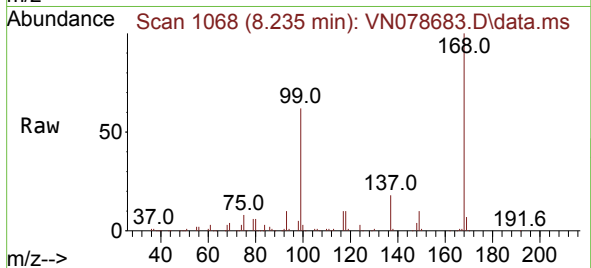
Tgt Ion: 83 Resp: 218596
Ion Ratio Lower Upper
83 100
85 68.6 55.4 83.0



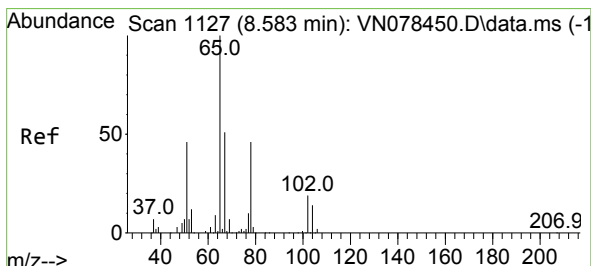
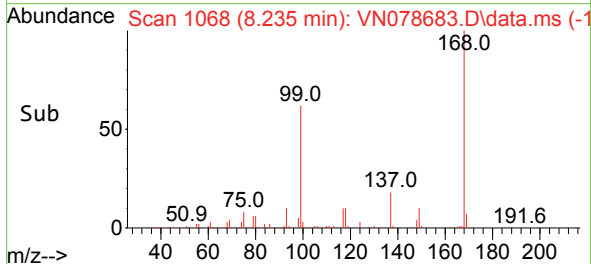
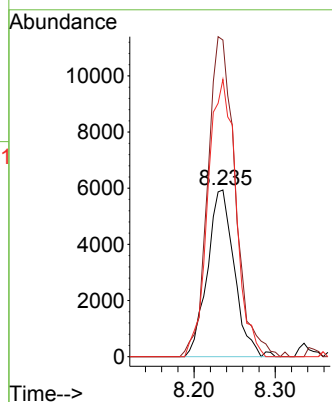


#31
Cyclohexane
Concen: 1.081 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN078683.D
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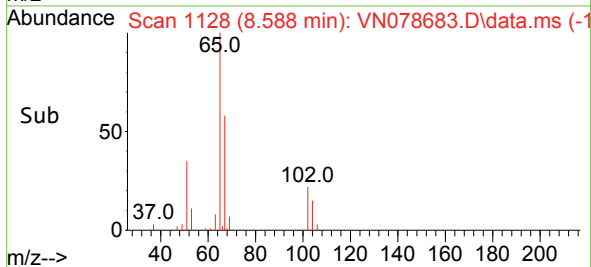
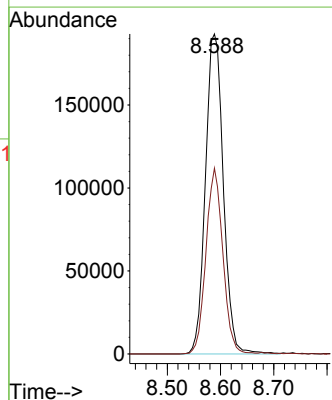
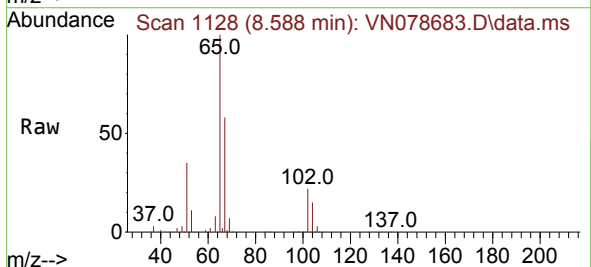


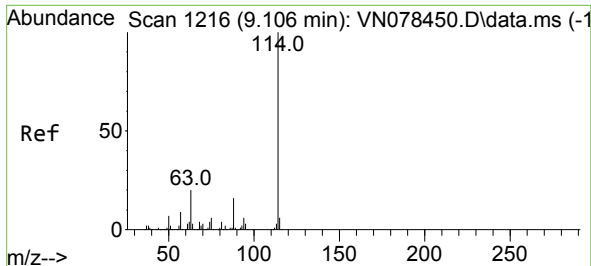
Tgt Ion: 56 Resp: 13646
Ion Ratio Lower Upper
56 100
69 190.0 26.8 40.2#
84 166.3 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 48.240 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.005 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

Tgt Ion: 65 Resp: 450452
Ion Ratio Lower Upper
65 100
67 54.8 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078683.D

Acq: 28 Jul 2023 14:26

Instrument :

MSVOA_N

ClientSampleId :

MW-16-20230727

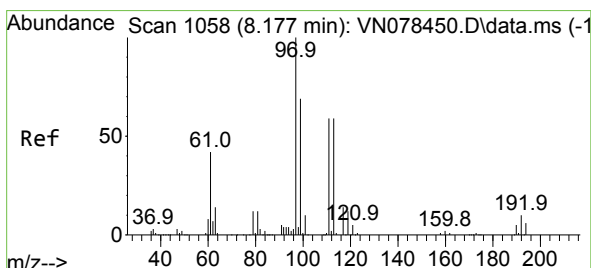
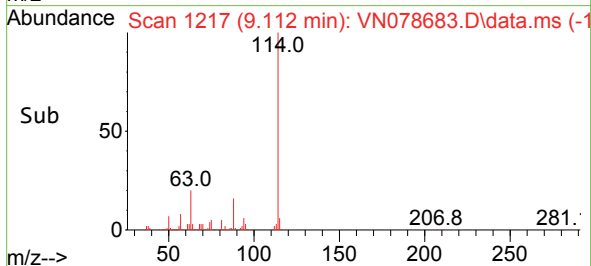
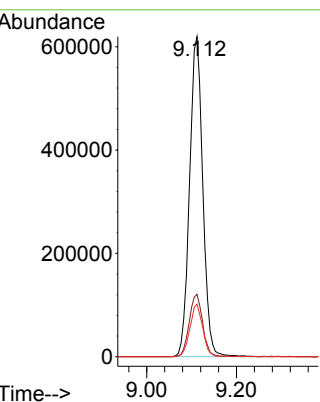
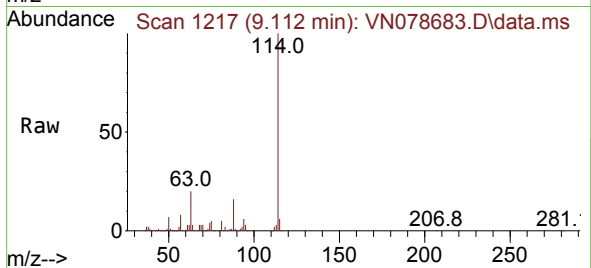
Tgt Ion:114 Resp: 1267062

Ion Ratio Lower Upper

114 100

63 19.5 0.0 36.4

88 16.5 0.0 30.6



#35

Dibromofluoromethane

Concen: 51.157 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. -0.000 min

Lab File: VN078683.D

Acq: 28 Jul 2023 14:26

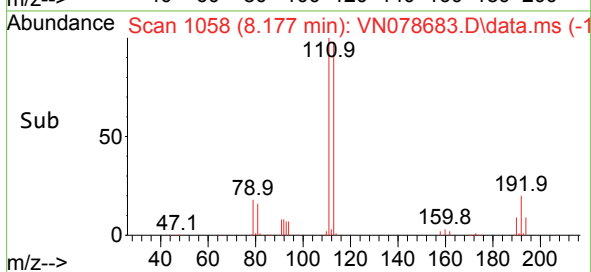
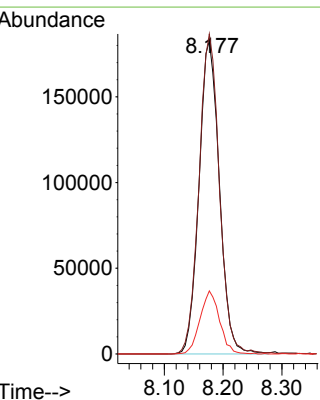
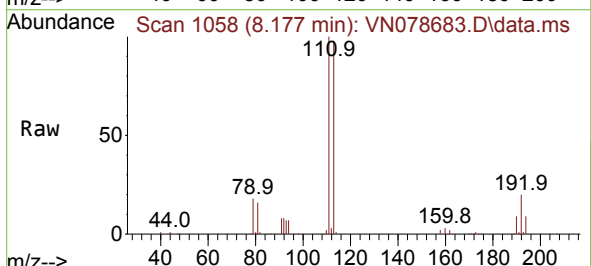
Tgt Ion:113 Resp: 440008

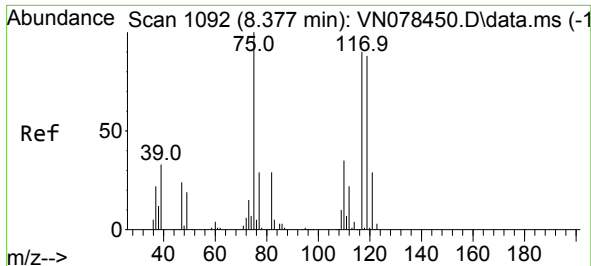
Ion Ratio Lower Upper

113 100

111 102.3 82.6 123.8

192 19.3 12.7 19.1#





#36

1,1-Dichloropropene

Concen: 4.384 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.142 min

Lab File: VN078683.D

Acq: 28 Jul 2023 14:26

Instrument :

MSVOA_N

ClientSampleId :

MW-16-20230727

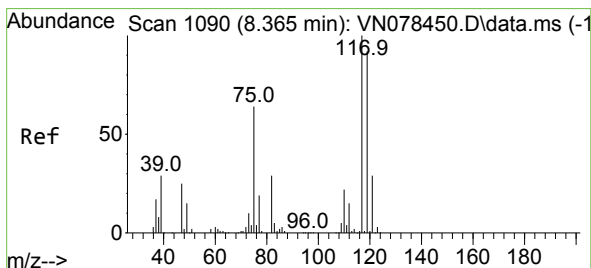
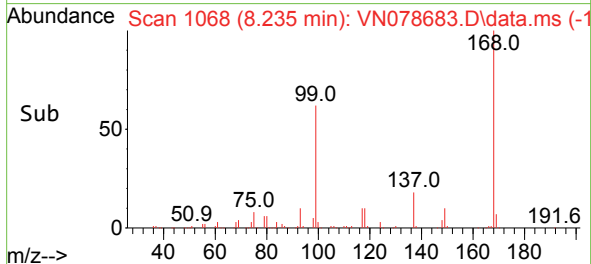
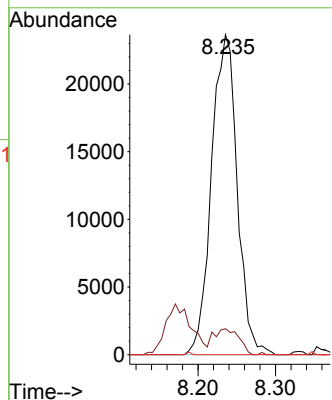
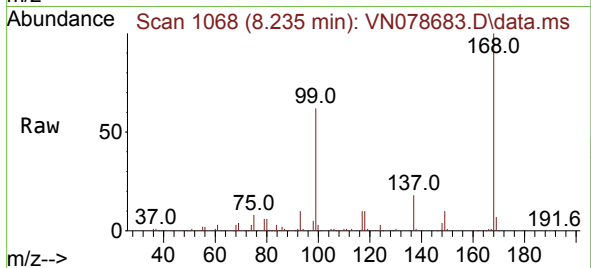
Tgt Ion: 75 Resp: 54452

Ion Ratio Lower Upper

75 100

110 8.0 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.261 ug/l

RT: 8.235 min Scan# 1068

Delta R.T. -0.130 min

Lab File: VN078683.D

Acq: 28 Jul 2023 14:26

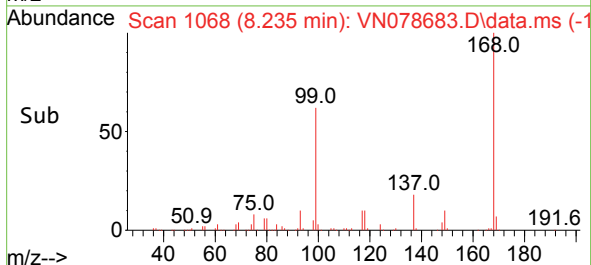
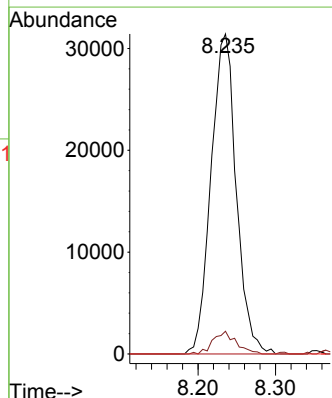
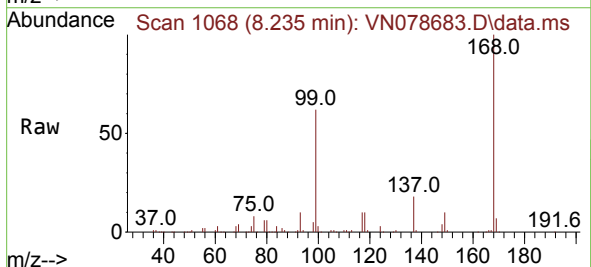
Tgt Ion: 117 Resp: 71011

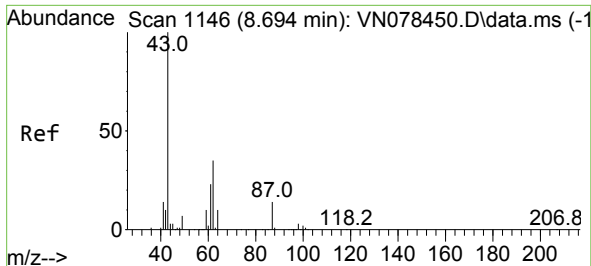
Ion Ratio Lower Upper

117 100

119 7.1 77.3 115.9#

121 0.0 23.3 34.9#

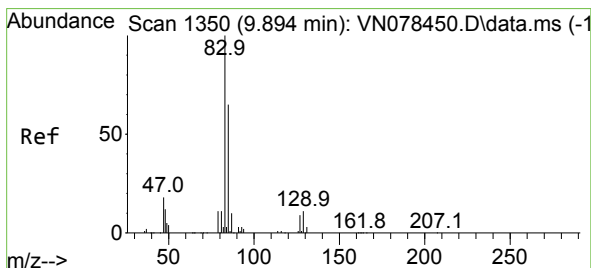
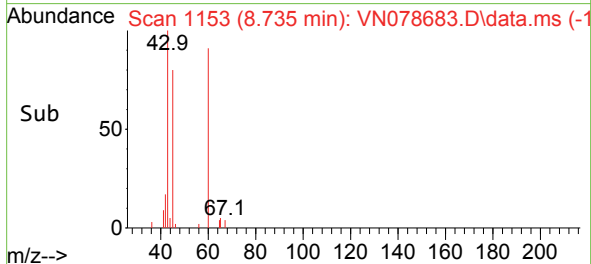
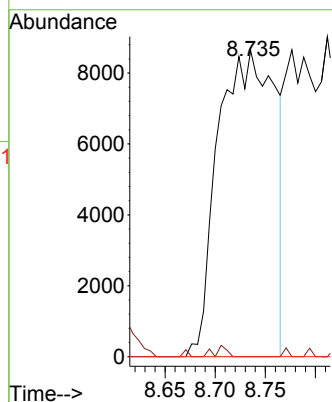
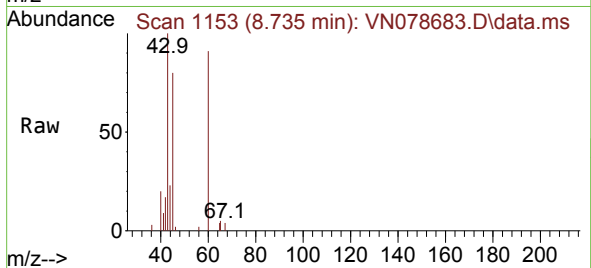




#43
Isopropyl Acetate
Concen: 2.004 ug/l
RT: 8.735 min Scan# 1146
Delta R.T. 0.041 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

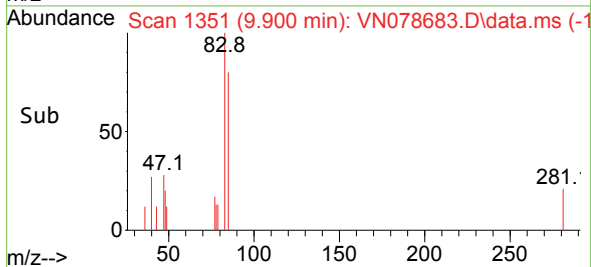
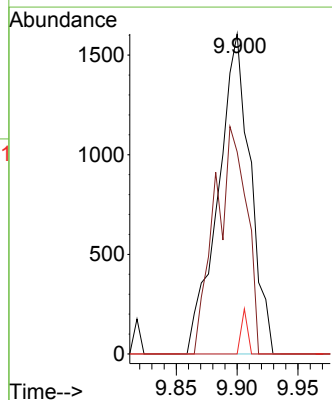
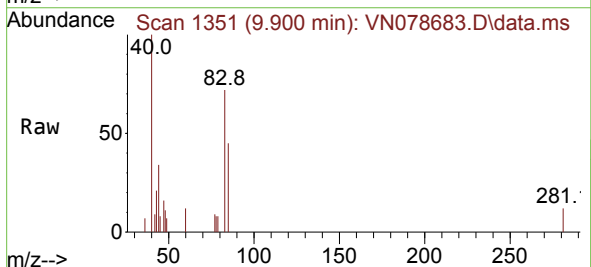
Instrument :
MSVOA_N
ClientSampleId :
MW-16-20230727

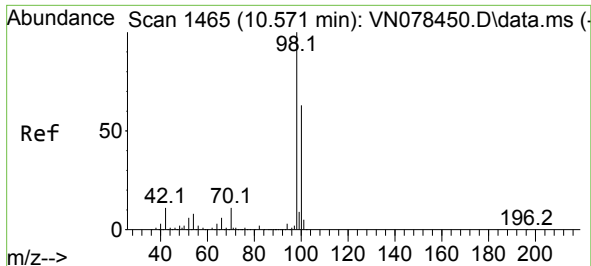
Tgt Ion: 43 Resp: 34156
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#



#47
Bromodichloromethane
Concen: 0.225 ug/l
RT: 9.900 min Scan# 1351
Delta R.T. 0.006 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

Tgt Ion: 83 Resp: 2963
Ion Ratio Lower Upper
83 100
85 63.1 49.6 74.4
127 0.0 7.0 10.6#

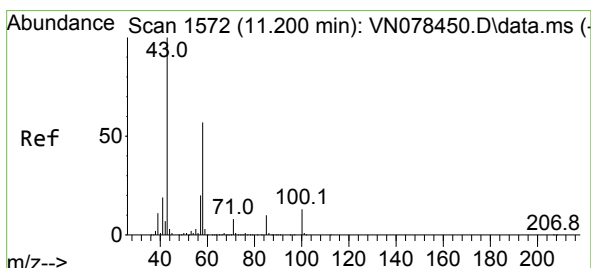
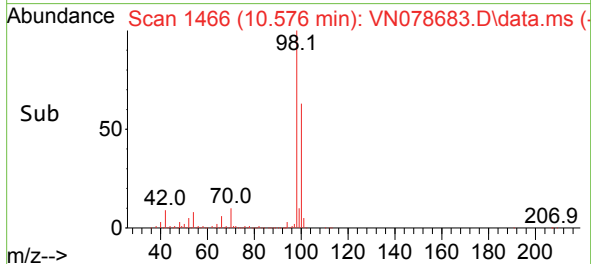
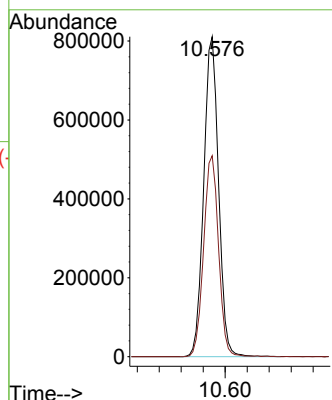
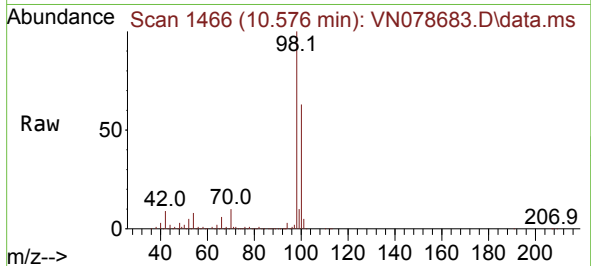




#50
Toluene-d8
Concen: 46.618 ug/l
RT: 10.576 min Scan# 1465
Delta R.T. 0.005 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

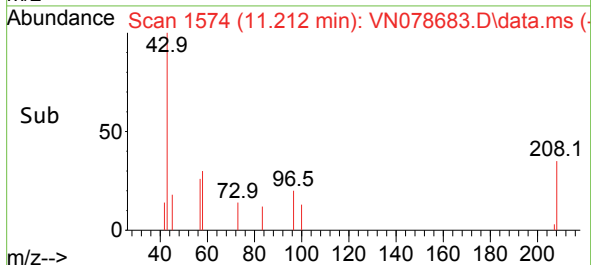
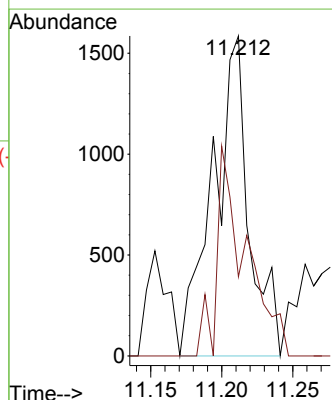
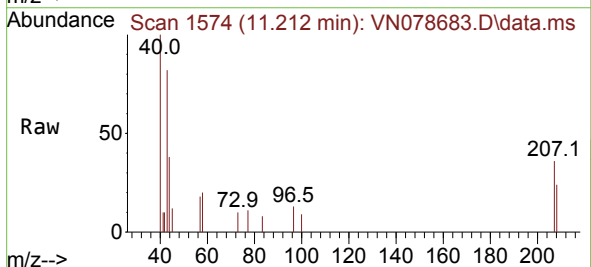
Instrument :
MSVOA_N
ClientSampleId :
MW-16-20230727

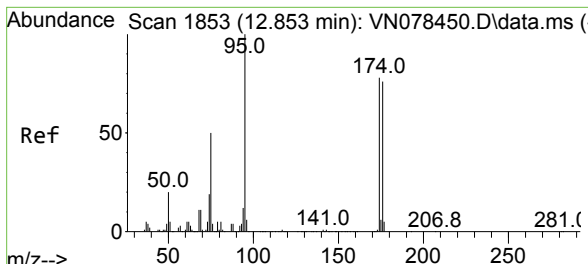
Tgt Ion: 98 Resp: 1514754
Ion Ratio Lower Upper
98 100
100 63.3 52.0 78.0



#59
2-Hexanone
Concen: 0.385 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

Tgt Ion: 43 Resp: 2777
Ion Ratio Lower Upper
43 100
58 53.7 31.7 95.1

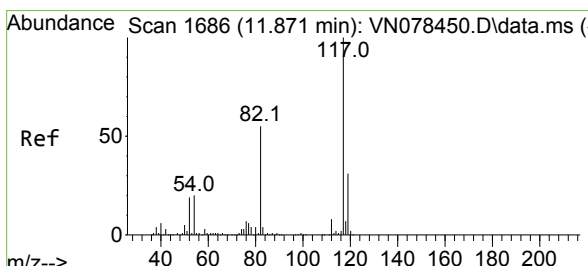
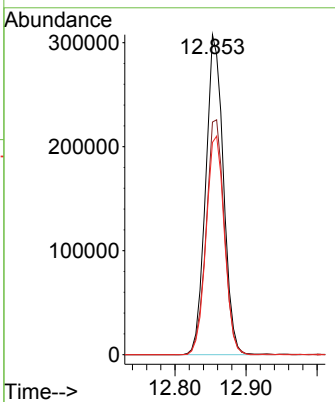
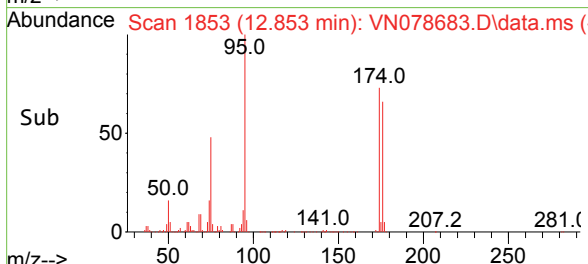
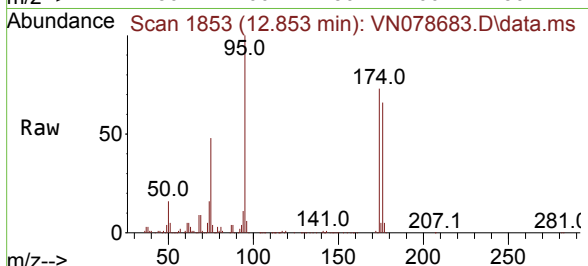




#62
 4-Bromofluorobenzene
 Concen: 53.113 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078683.D
 Acq: 28 Jul 2023 14:26

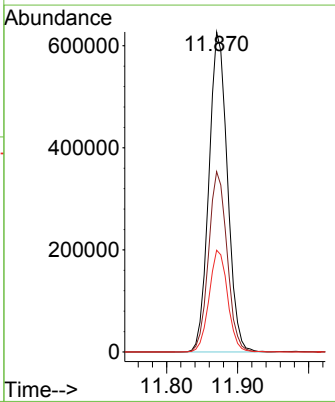
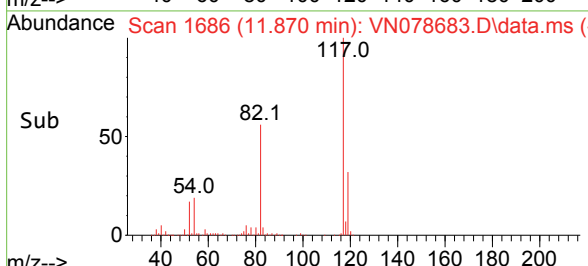
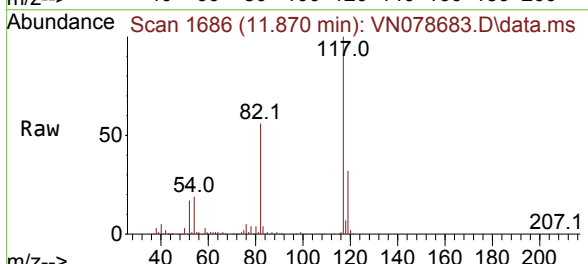
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-16-20230727

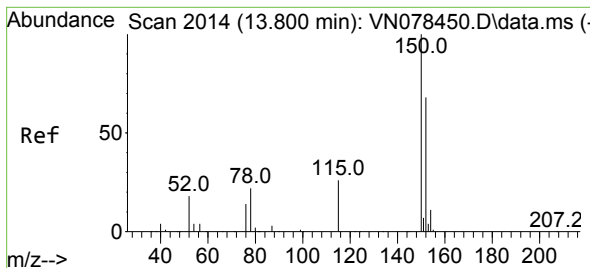
Tgt Ion:	95	Resp:	531579
Ion	Ratio	Lower	Upper
95	100		
174	75.4	0.0	143.8
176	70.6	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.870 min Scan# 1686
 Delta R.T. -0.001 min
 Lab File: VN078683.D
 Acq: 28 Jul 2023 14:26

Tgt Ion:	117	Resp:	1131111
Ion	Ratio	Lower	Upper
117	100		
82	56.3	44.0	66.0
119	31.8	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN078683.D

Acq: 28 Jul 2023 14:26

Instrument :

MSVOA_N

ClientSampleId :

MW-16-20230727

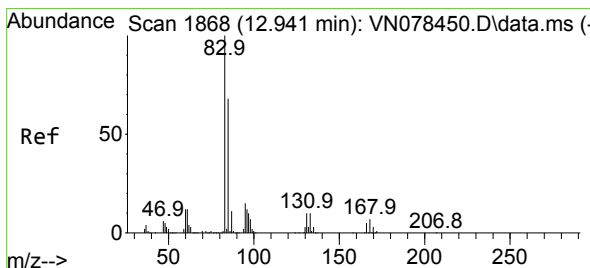
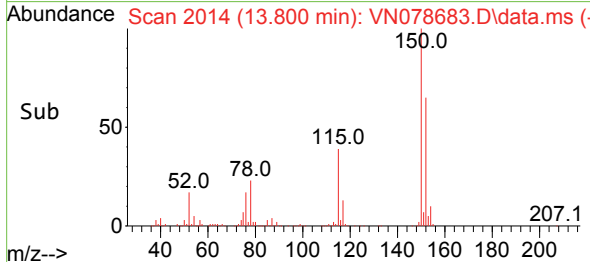
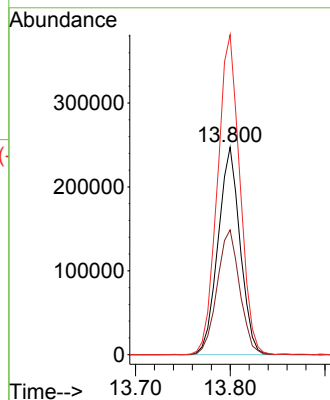
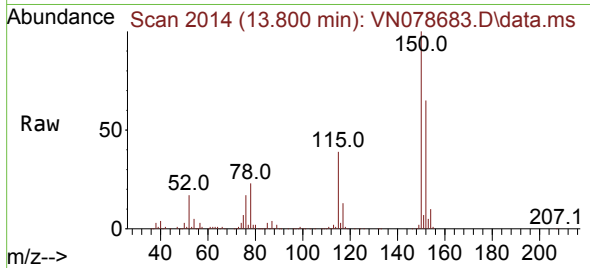
Tgt Ion:152 Resp: 399783

Ion Ratio Lower Upper

152 100

115 61.8 32.3 96.8

150 156.9 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.947 min Scan# 1869

Delta R.T. 0.006 min

Lab File: VN078683.D

Acq: 28 Jul 2023 14:26

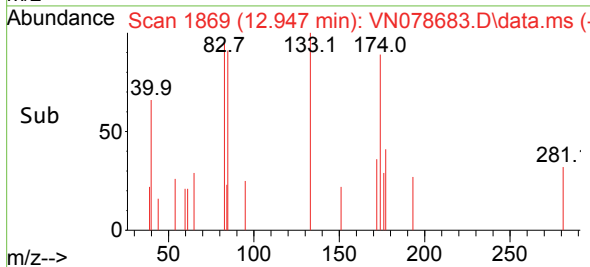
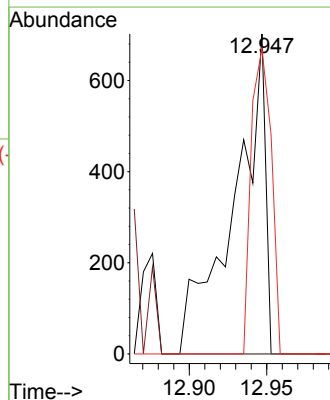
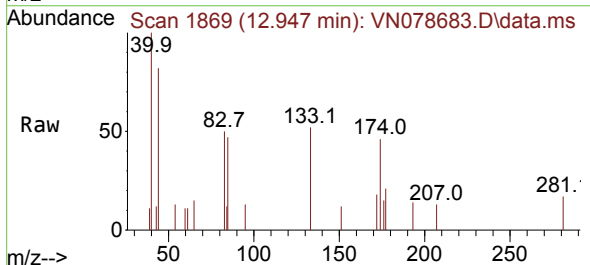
Tgt Ion: 83 Resp: 980

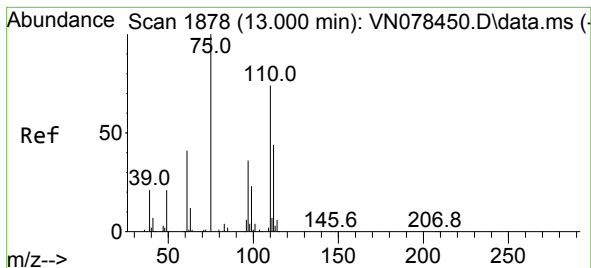
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 61.5 31.9 95.7





#76

1,2,3-Trichloropropane

Concen: 26.765 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078683.D

Acq: 28 Jul 2023 14:26

Instrument :

MSVOA_N

ClientSampleId :

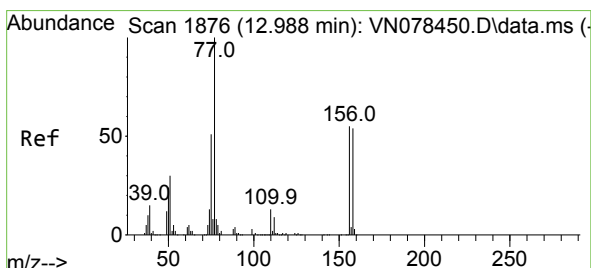
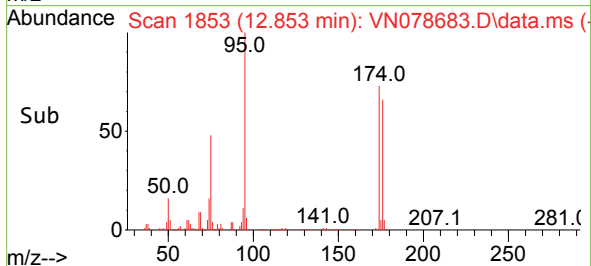
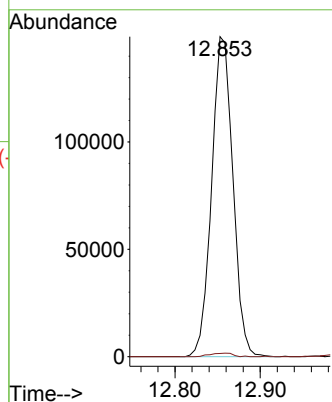
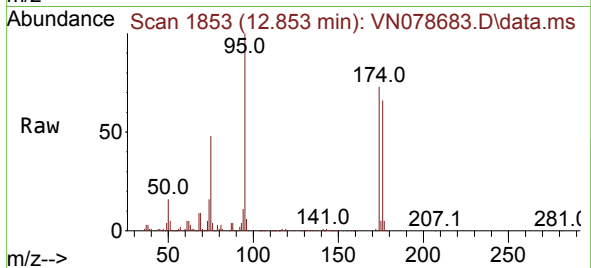
MW-16-20230727

Tgt Ion: 75 Resp: 258638

Ion Ratio Lower Upper

75 100

77 1.2 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.988 min Scan# 1876

Delta R.T. 0.000 min

Lab File: VN078683.D

Acq: 28 Jul 2023 14:26

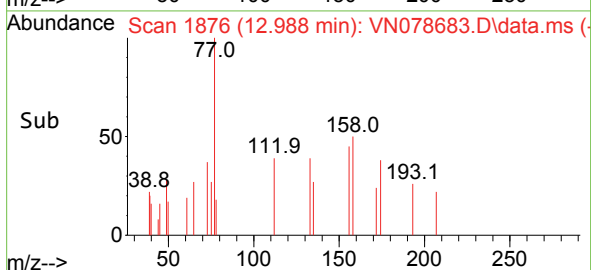
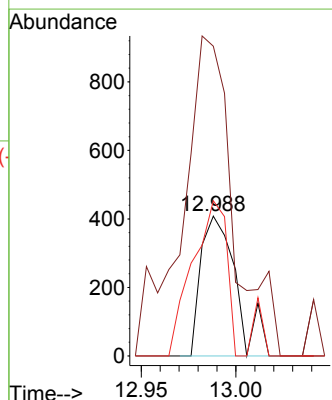
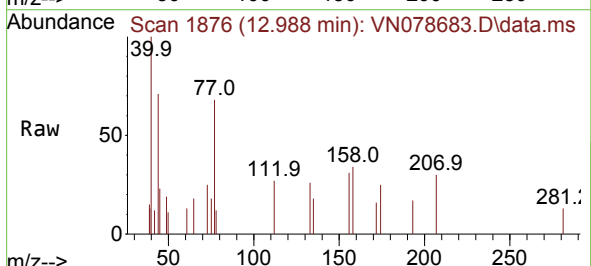
Tgt Ion:156 Resp: 526

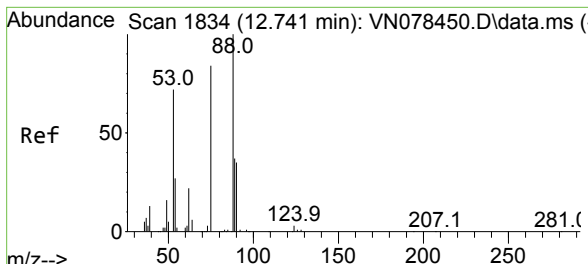
Ion Ratio Lower Upper

156 100

77 337.8 107.7 323.3#

158 108.4 48.4 145.3

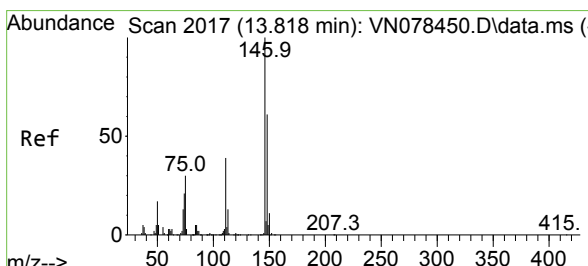
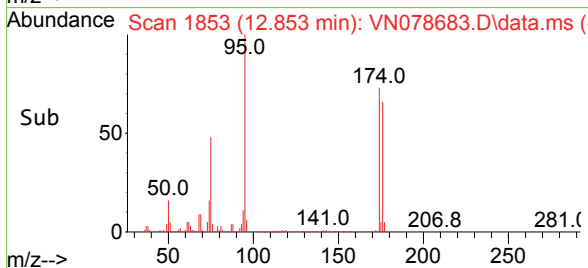
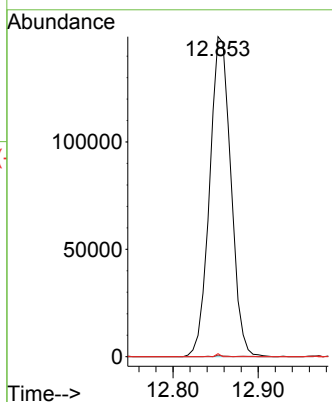
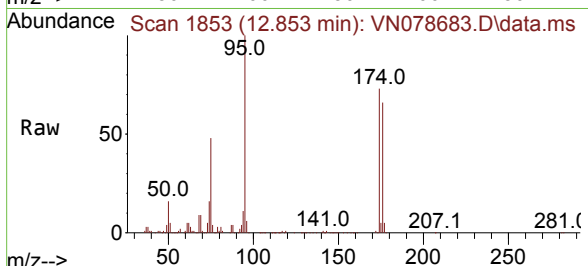




#81
trans-1,4-Dichloro-2-butene
Concen: 70.334 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

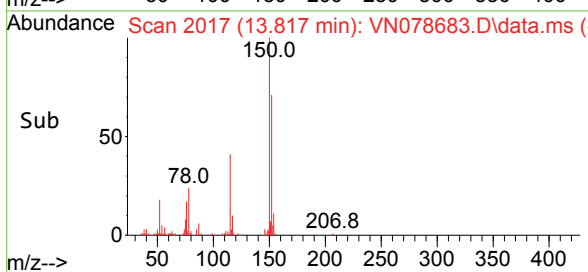
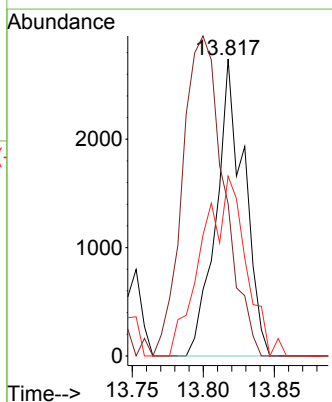
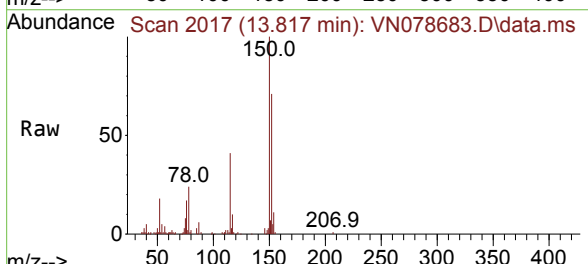
Instrument :
MSVOA_N
ClientSampleId :
MW-16-20230727

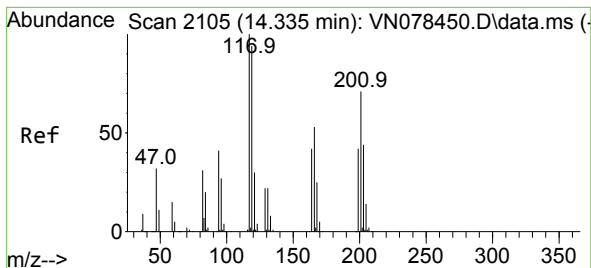
Tgt Ion: 75 Resp: 258638
Ion Ratio Lower Upper
75 100
53 0.2 67.4 101.2#
89 0.2 38.8 58.2#



#88
1,4-Dichlorobenzene
Concen: 0.258 ug/l
RT: 13.817 min Scan# 2017
Delta R.T. -0.001 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

Tgt Ion:146 Resp: 3744
Ion Ratio Lower Upper
146 100
111 160.1 20.6 61.8#
148 94.8 31.6 94.8





#90

Hexachloroethane

Concen: Below Cal

RT: 14.347 min Scan# 2105

Delta R.T. 0.012 min

Lab File: VN078683.D

Acq: 28 Jul 2023 14:26

Instrument :

MSVOA_N

ClientSampleId :

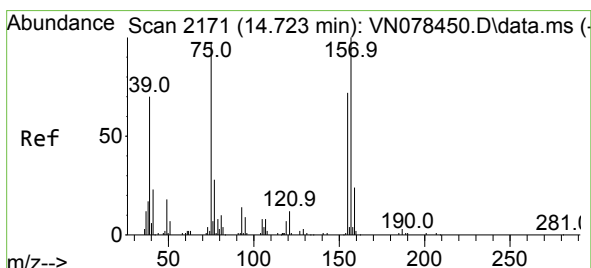
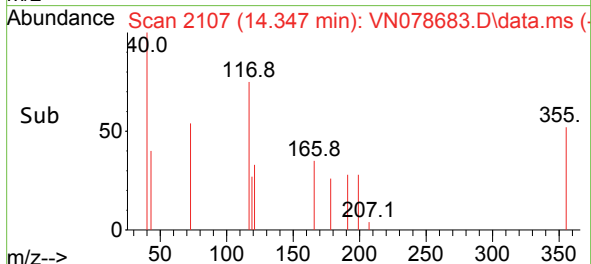
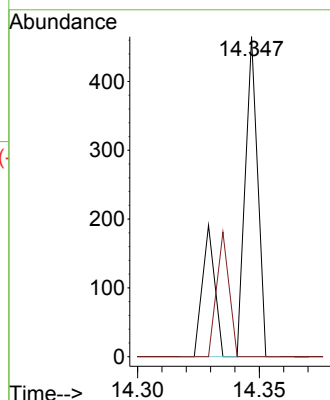
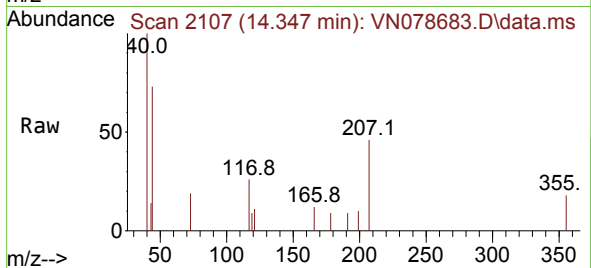
MW-16-20230727

Tgt Ion:117 Resp: 231

Ion Ratio Lower Upper

117 100

201 27.7 29.3 88.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.729 min Scan# 2172

Delta R.T. 0.006 min

Lab File: VN078683.D

Acq: 28 Jul 2023 14:26

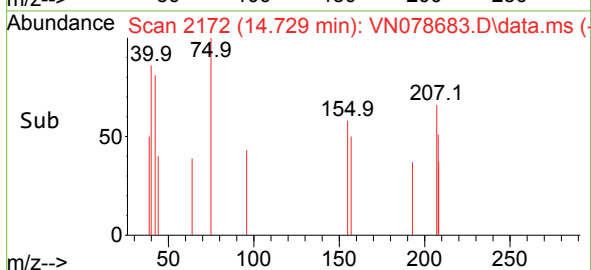
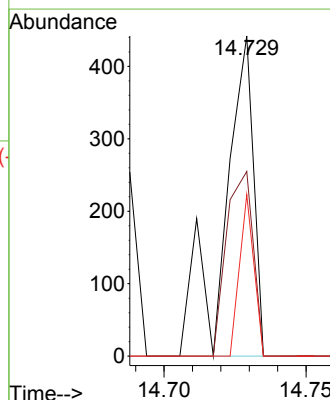
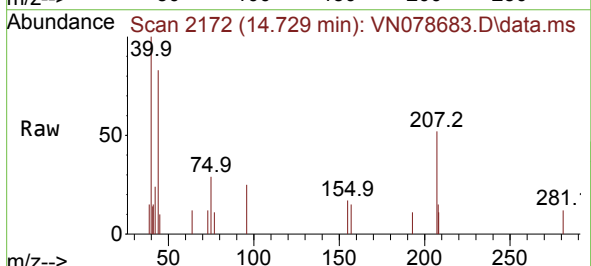
Tgt Ion: 75 Resp: 319

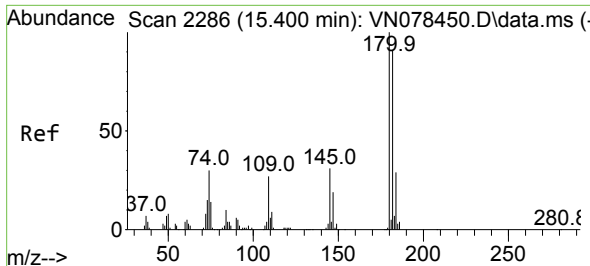
Ion Ratio Lower Upper

75 100

155 52.0 39.1 117.2

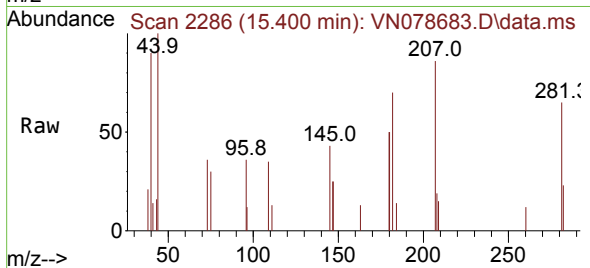
157 24.8 50.3 150.9#



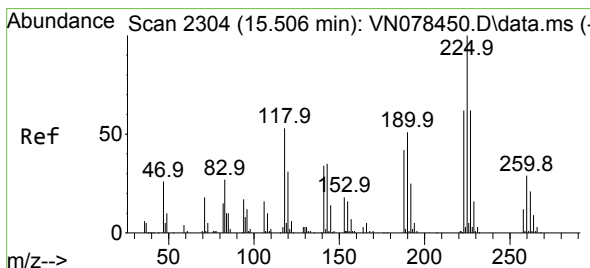
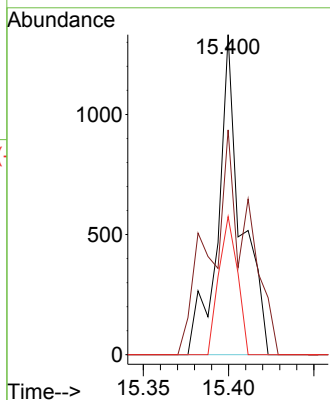
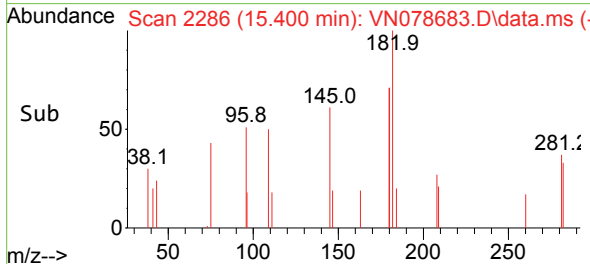


#93
1,2,4-Trichlorobenzene
Concen: 0.276 ug/l
RT: 15.400 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

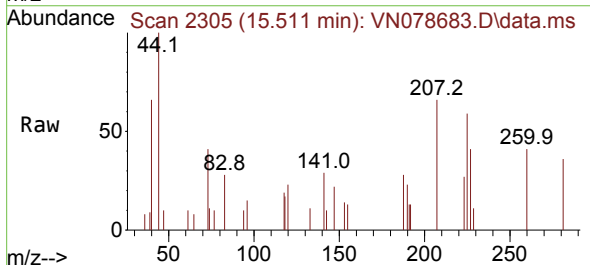
Instrument :
MSVOA_N
ClientSampleId :
MW-16-20230727



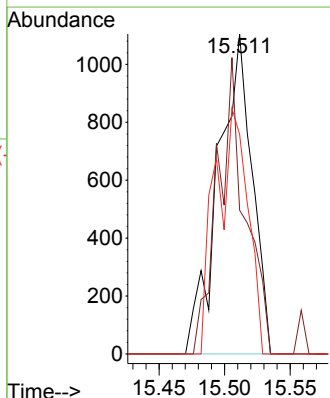
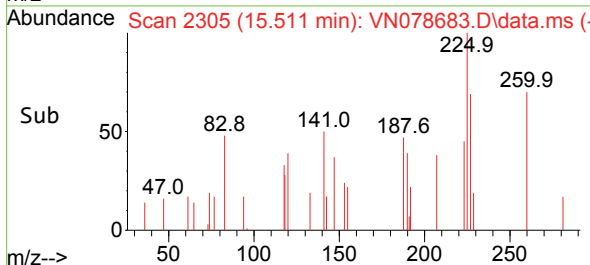
Tgt Ion:180 Resp: 1264
Ion Ratio Lower Upper
180 100
182 110.3 46.1 138.2
145 34.6 16.6 49.8

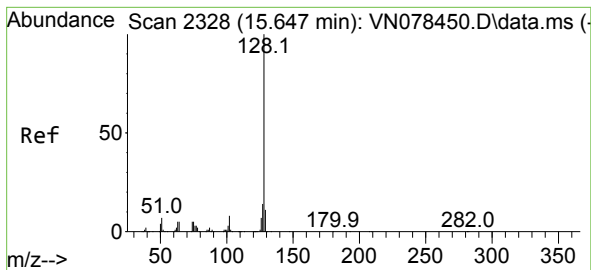


#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.511 min Scan# 2305
Delta R.T. 0.005 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26



Tgt Ion:225 Resp: 1982
Ion Ratio Lower Upper
225 100
223 75.7 31.3 93.8
227 73.4 31.9 95.9





#95
Naphthalene
Concen: 0.364 ug/l
RT: 15.653 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN078683.D
Acq: 28 Jul 2023 14:26

Instrument :
MSVOA_N
ClientSampleId :
MW-16-20230727

Tgt Ion:128 Resp: 5701
Ion Ratio Lower Upper
128 100
127 16.7 10.0 15.0#
129 12.1 8.7 13.1

