

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072823\
 Data File : VN078684.D
 Acq On : 28 Jul 2023 14:50
 Operator : JC\MD
 Sample : 03831-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17-20230727

Quant Time: Jul 29 00:48:53 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

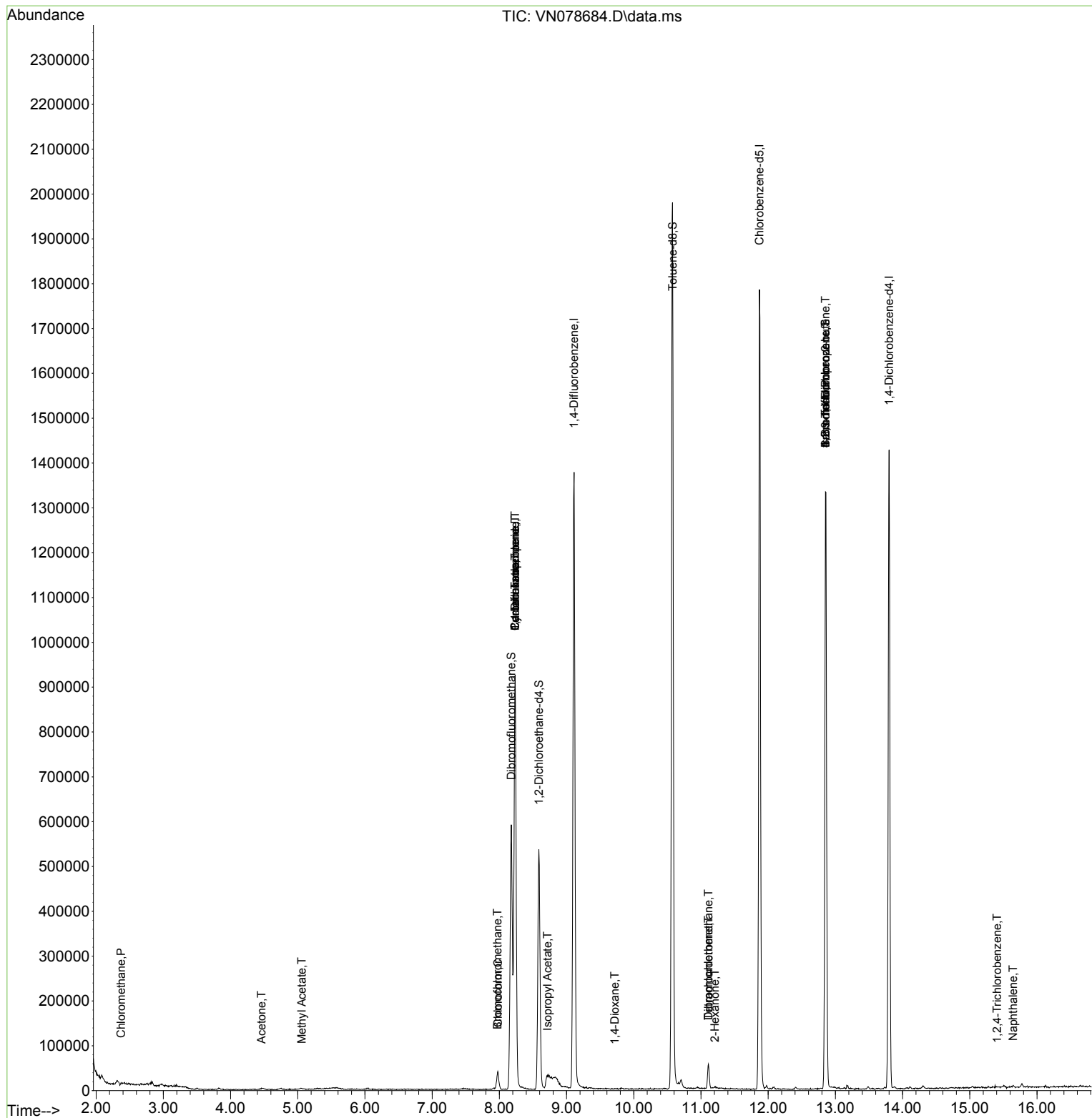
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	694155	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	1233975	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	1111050	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	404138	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	443818	47.692	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.380%
35) Dibromofluoromethane	8.177	113	433497	51.751	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.500%
50) Toluene-d8	10.576	98	1494148	47.217	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.440%
62) 4-Bromofluorobenzene	12.853	95	523085	53.666	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	107.340%
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	2777	0.300	ug/l #	76
5) Bromomethane	2.971	94	2906	Below Cal	#	65
6) Chloroethane	3.124	64	1273	Below Cal	#	43
16) Acetone	4.459	43	3861	1.332	ug/l #	40
18) Methyl Acetate	5.059	43	3740	0.305	ug/l #	74
20) Methylene Chloride	5.300	84	1108	Below Cal	#	57
28) Bromochloromethane	7.971	49	2674	0.376	ug/l #	5
30) Chloroform	7.977	83	36468	2.320	ug/l	100
31) Cyclohexane	8.235	56	13208	1.050	ug/l #	1
36) 1,1-Dichloropropene	8.235	75	54103	4.473	ug/l #	47
38) Carbon Tetrachloride	8.235	117	71778	5.460	ug/l #	16
43) Isopropyl Acetate	8.718	43	29144	1.756	ug/l #	49
49) 1,4-Dioxane	9.718	88	205	1.222	ug/l #	1
59) 2-Hexanone	11.206	43	1632	0.233	ug/l	86
60) Dibromochloromethane	11.112	129	13391	1.386	ug/l #	11
64) Tetrachloroethene	11.112	164	11949	1.430	ug/l	88
71) Bromoform	12.853	173	2444	0.378	ug/l #	28
75) 1,1,2,2-Tetrachloroethane	12.953	83	724	Below Cal	#	55
76) 1,2,3-Trichloropropane	12.853	75	256717	26.280	ug/l #	1
77) Bromobenzene	12.988	156	272	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	256717	69.059	ug/l #	15
90) Hexachloroethane	14.329	117	220	Below Cal		63
92) 1,2-Dibromo-3-Chloropr...	14.723	75	118	Below Cal	#	52
93) 1,2,4-Trichlorobenzene	15.406	180	1029	0.222	ug/l #	67
94) Hexachlorobutadiene	15.500	225	1226	Below Cal	#	72
95) Naphthalene	15.647	128	3781	0.239	ug/l #	75

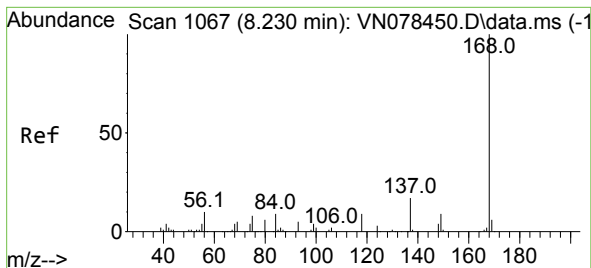
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.235 min Scan# 10

Delta R.T. 0.005 min

Lab File: VN078684.D

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Instrument :

MSVOA_N

ClientSampleId :

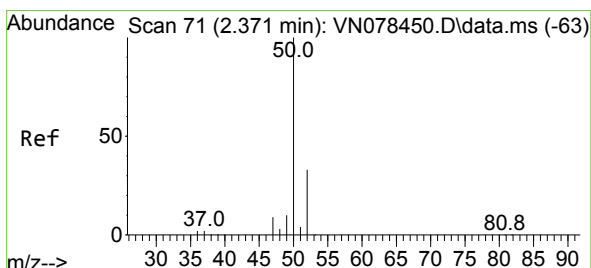
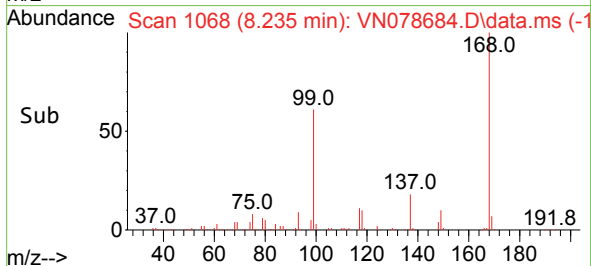
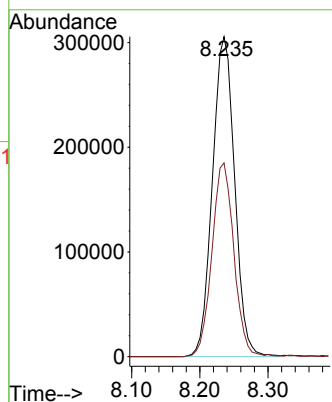
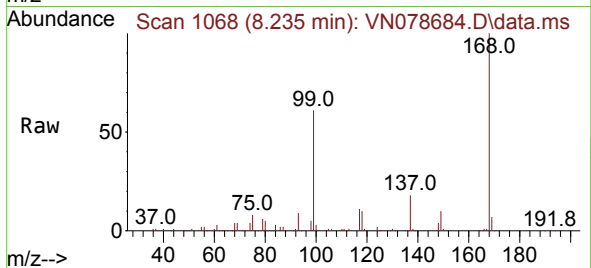
MW-17-20230727

Tgt Ion:168 Resp: 694155

Ion Ratio Lower Upper

168 100

99 60.5 53.0 79.6



#3

Chloromethane

Concen: 0.300 ug/l

RT: 2.371 min Scan# 71

Delta R.T. 0.000 min

Lab File: VN078684.D

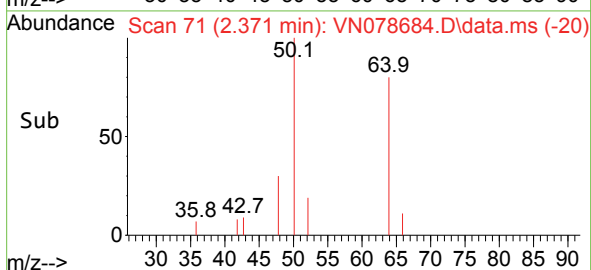
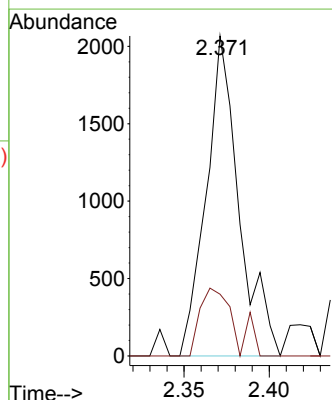
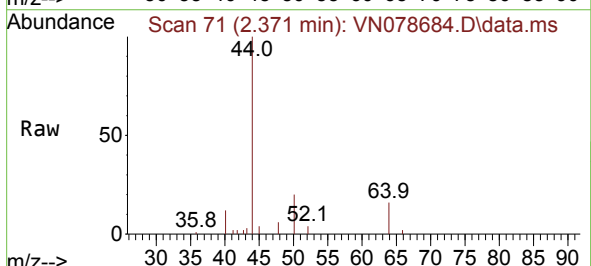
Acq: 28 Jul 2023 14:50

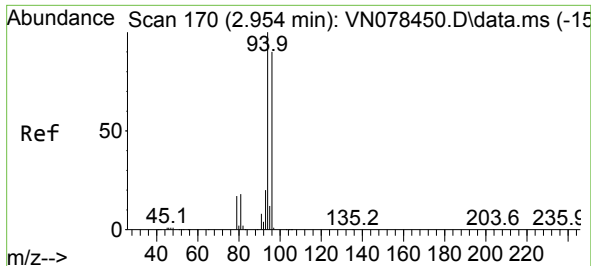
Tgt Ion: 50 Resp: 2777

Ion Ratio Lower Upper

50 100

52 19.3 26.5 39.7#

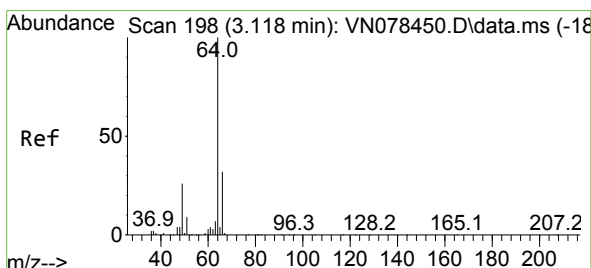
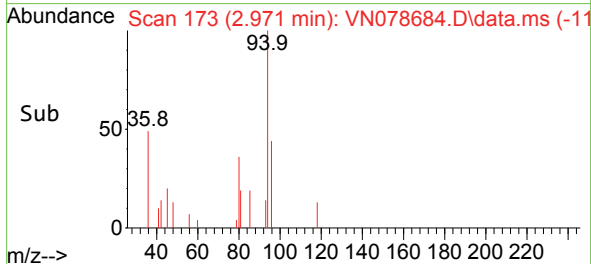
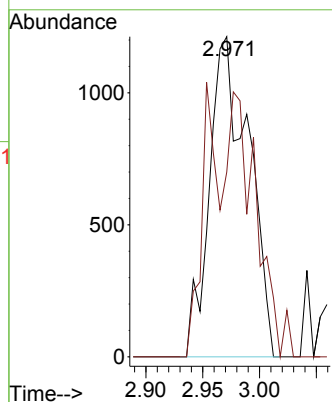
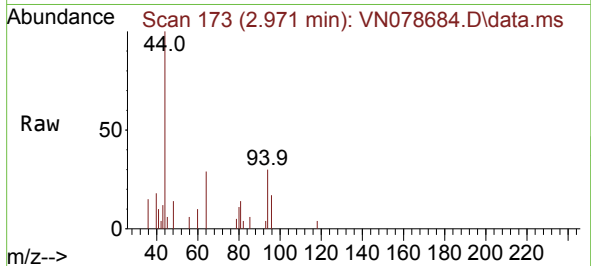




#5
Bromomethane
Concen: Below Cal
RT: 2.971 min Scan# 11
Delta R.T. 0.017 min
Lab File: VN078684.D
Acq: 28 Jul 2023 14:50

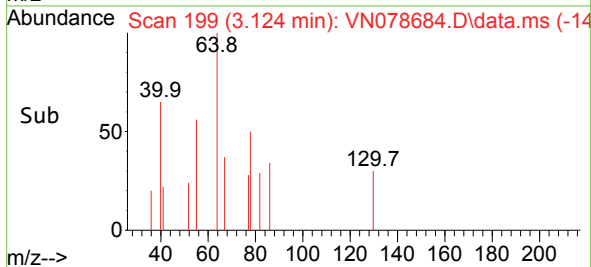
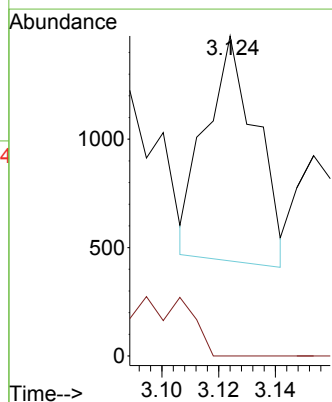
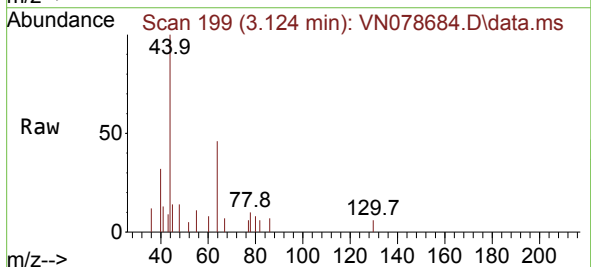
Instrument :
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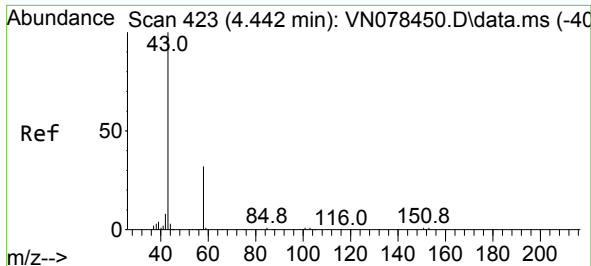
Tgt Ion: 94 Resp: 2906
Ion Ratio Lower Upper
94 100
96 57.7 73.1 109.7#



#6
Chloroethane
Concen: Below Cal
RT: 3.124 min Scan# 199
Delta R.T. 0.006 min
Lab File: VN078684.D
Acq: 28 Jul 2023 14:50

Tgt Ion: 64 Resp: 1273
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

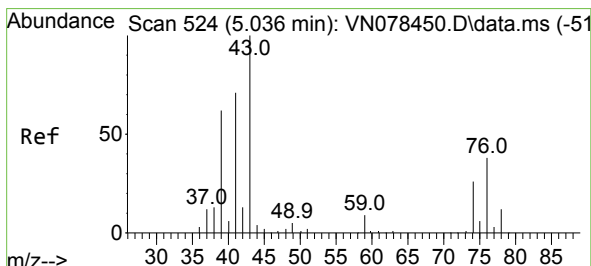
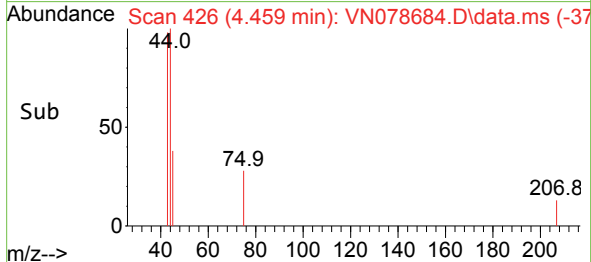
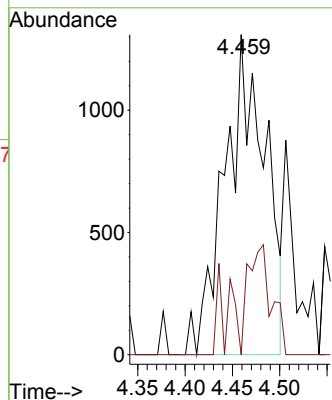
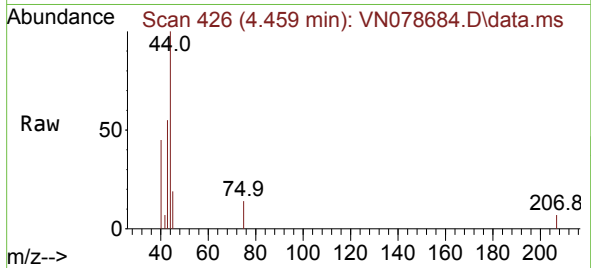




#16
Acetone
Concen: 1.332 ug/l
RT: 4.459 min Scan# 431
Delta R.T. 0.017 min
Lab File: VN078684.D
Acq: 28 Jul 2023 14:50

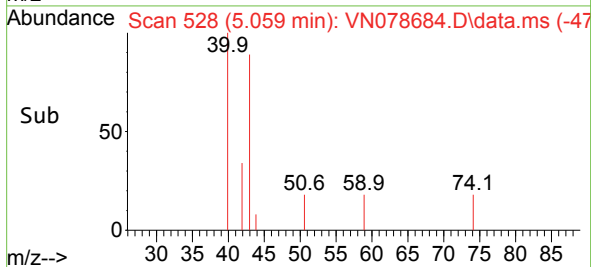
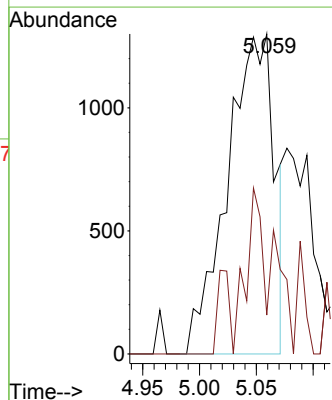
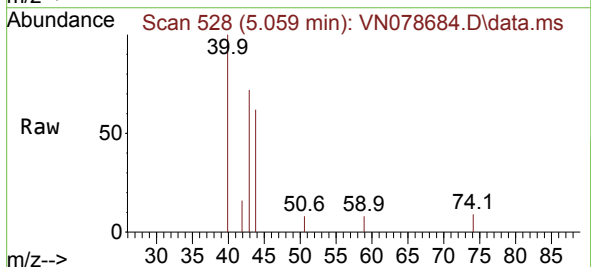
Instrument :
MSVOA_N
ClientSampleId :
MW-17-20230727

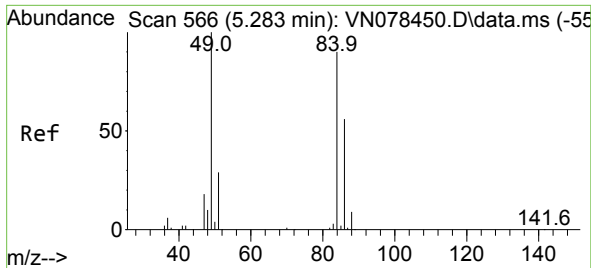
Tgt Ion: 43 Resp: 3861
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#18
Methyl Acetate
Concen: 0.305 ug/l
RT: 5.059 min Scan# 528
Delta R.T. 0.023 min
Lab File: VN078684.D
Acq: 28 Jul 2023 14:50

Tgt Ion: 43 Resp: 3740
Ion Ratio Lower Upper
43 100
74 18.4 26.2 39.4#

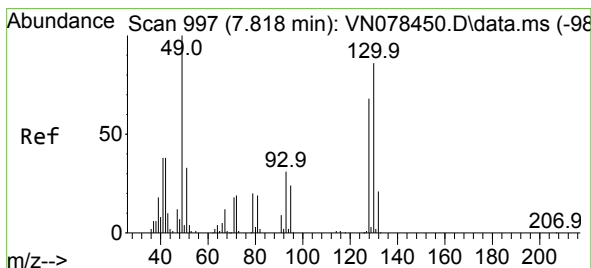
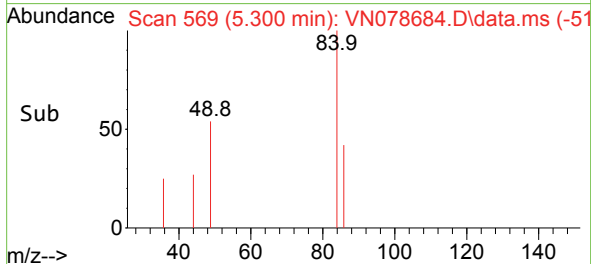
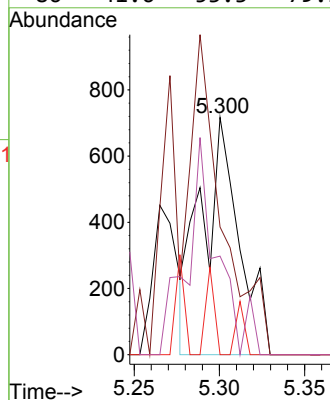
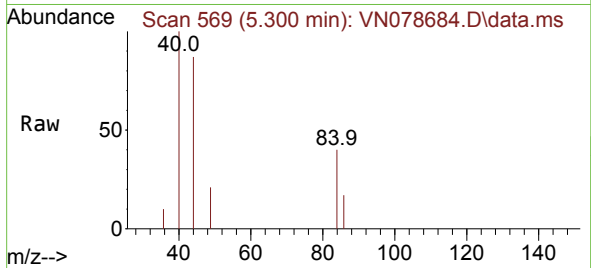




#20
Methylene Chloride
Concen: Below Cal
RT: 5.300 min Scan# 51
Delta R.T. 0.017 min
Lab File: VN078684.D
Acq: 28 Jul 2023 14:50

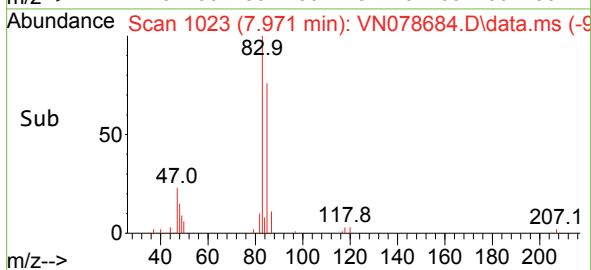
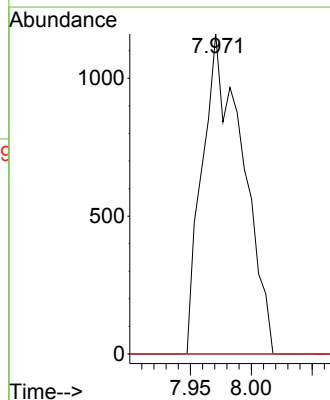
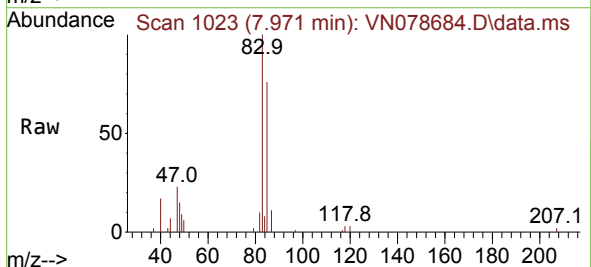
Instrument :
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ClientSampleId :
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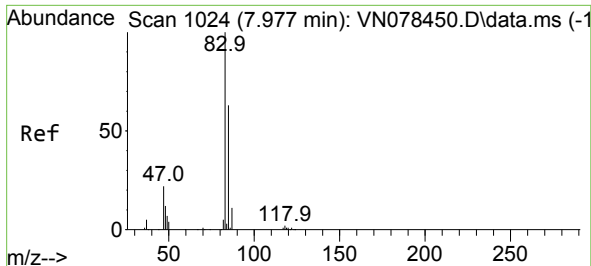
Tgt Ion: 84 Resp: 1108
Ion Ratio Lower Upper
84 100
49 53.8 79.7 119.5#
51 0.0 25.2 37.8#
86 41.6 53.3 79.9#



#28
Bromochloromethane
Concen: 0.376 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.153 min
Lab File: VN078684.D
Acq: 28 Jul 2023 14:50

Tgt Ion: 49 Resp: 2674
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.8
130 0.0 75.3 112.9#

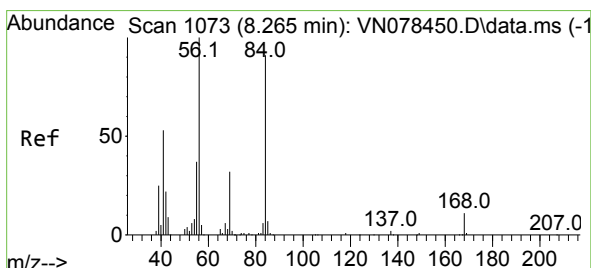
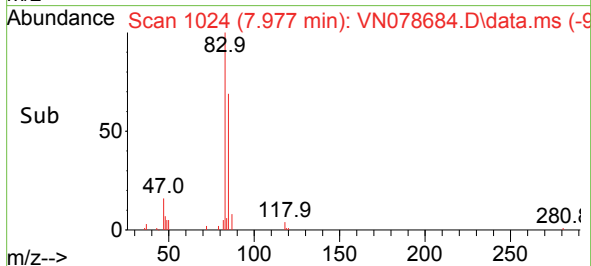
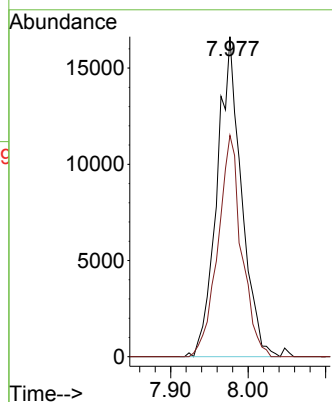
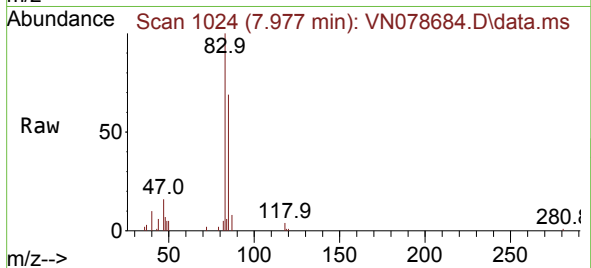




#30
Chloroform
Concen: 2.320 ug/l
RT: 7.977 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VN078684.D
Acq: 28 Jul 2023 14:50

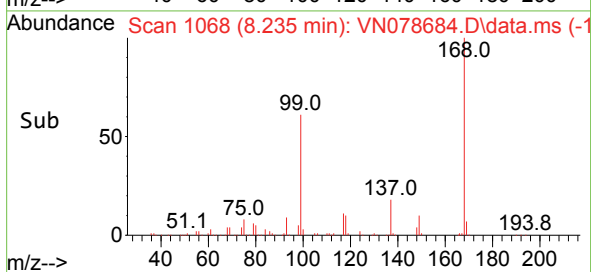
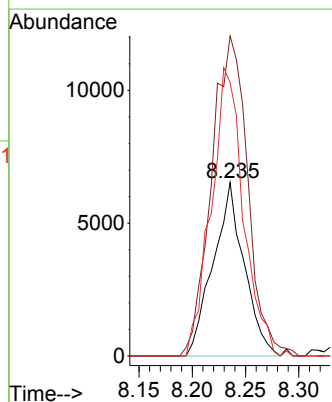
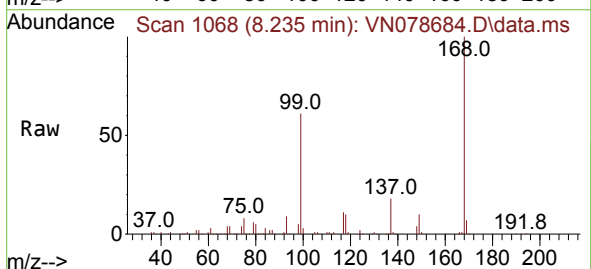
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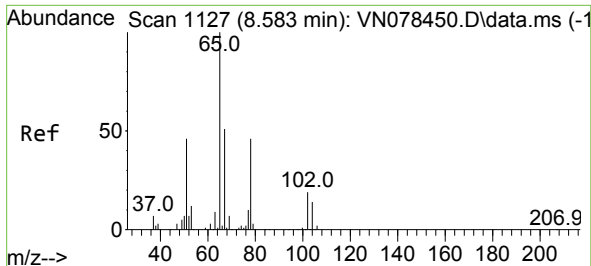
Tgt Ion: 83 Resp: 36468
Ion Ratio Lower Upper
83 100
85 69.1 55.4 83.0



#31
Cyclohexane
Concen: 1.050 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN078684.D
Acq: 28 Jul 2023 14:50

Tgt Ion: 56 Resp: 13208
Ion Ratio Lower Upper
56 100
69 184.4 26.8 40.2#
84 157.5 81.8 122.6#





#33

1,2-Dichloroethane-d4

Concen: 47.692 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.005 min

Lab File: VN078684.D

Acq: 28 Jul 2023 14:50

Instrument :

MSVOA_N

ClientSampleId :

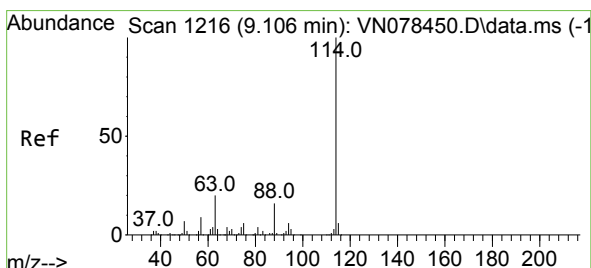
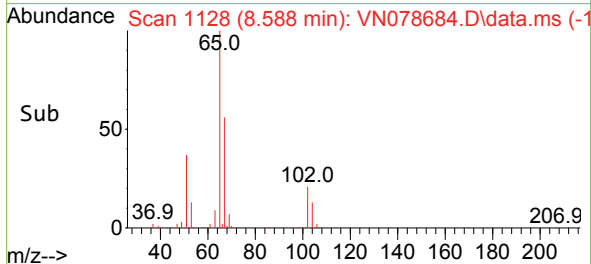
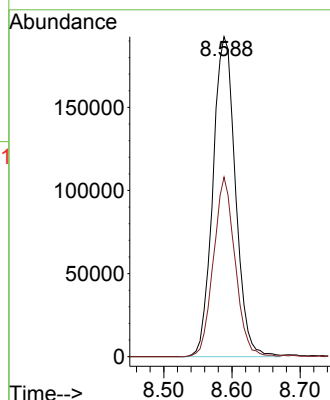
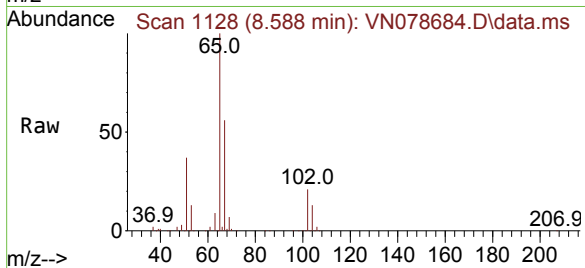
MW-17-20230727

Tgt Ion: 65 Resp: 443818

Ion Ratio Lower Upper

65 100

67 53.8 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.112 min Scan# 1217

Delta R.T. 0.006 min

Lab File: VN078684.D

Acq: 28 Jul 2023 14:50

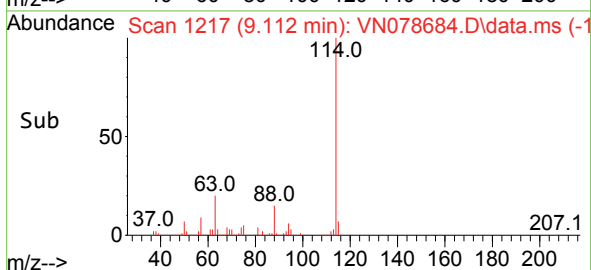
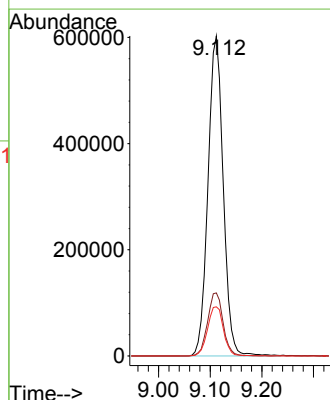
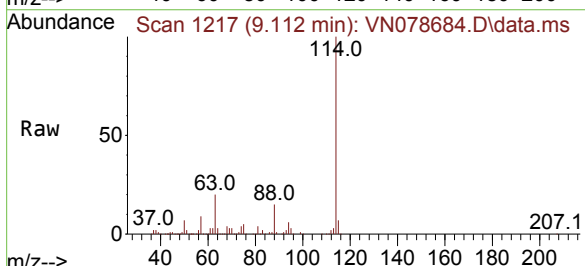
Tgt Ion: 114 Resp: 1233975

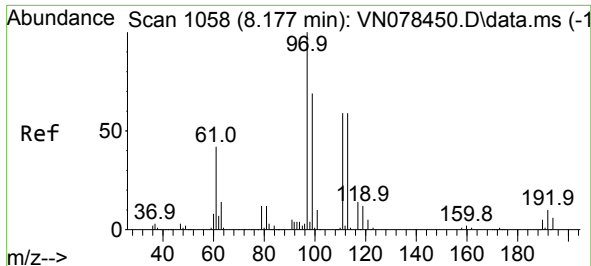
Ion Ratio Lower Upper

114 100

63 19.7 0.0 36.4

88 15.4 0.0 30.6

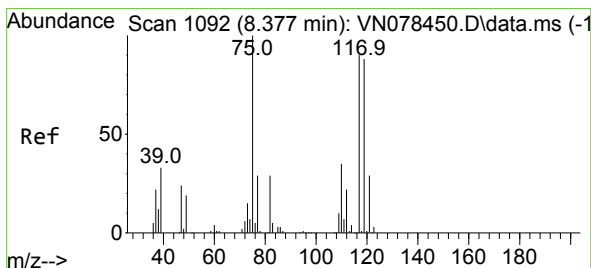
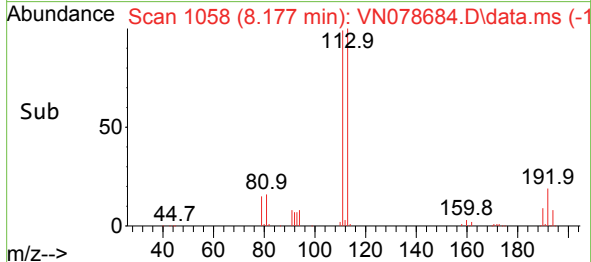
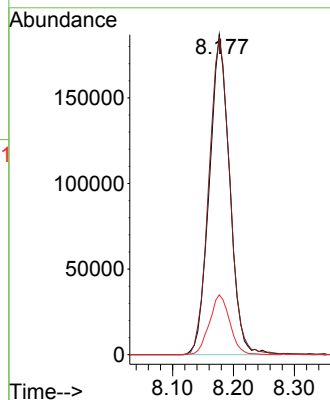
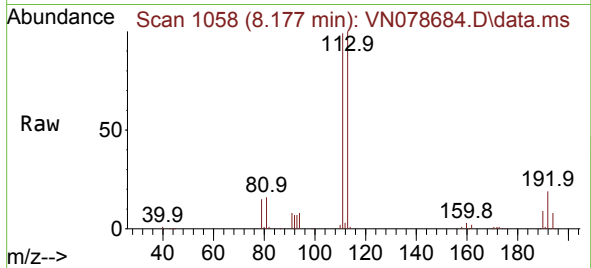




#35
Dibromofluoromethane
Concen: 51.751 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078684.D
Acq: 28 Jul 2023 14:50

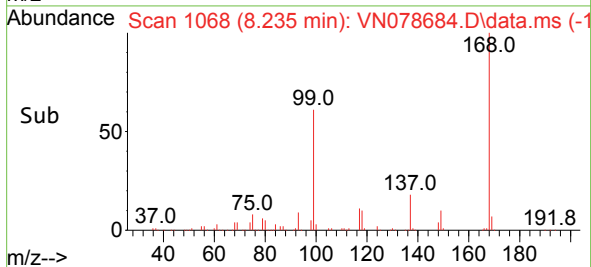
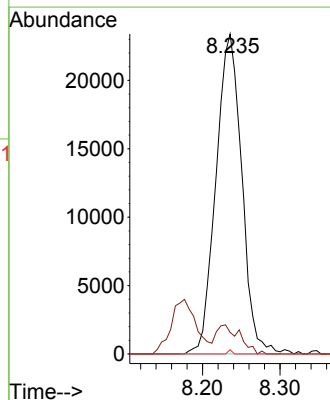
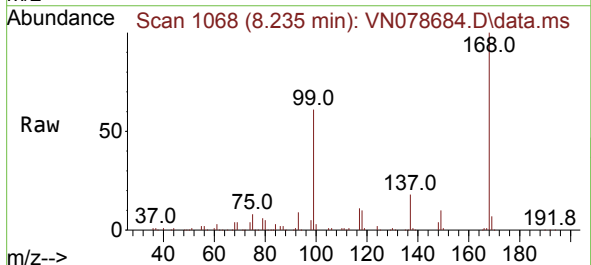
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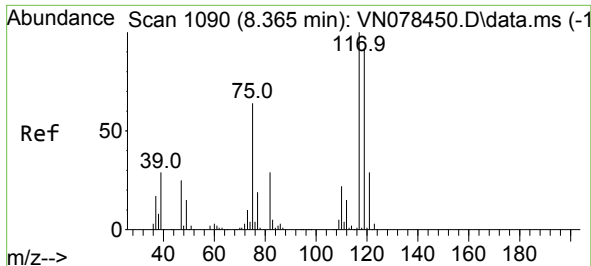
Tgt Ion:113 Resp: 433497
Ion Ratio Lower Upper
113 100
111 102.6 82.6 123.8
192 18.8 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.473 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.142 min
Lab File: VN078684.D
Acq: 28 Jul 2023 14:50

Tgt Ion: 75 Resp: 54103
Ion Ratio Lower Upper
75 100
110 8.2 19.1 57.3#
77 0.2 25.0 37.4#

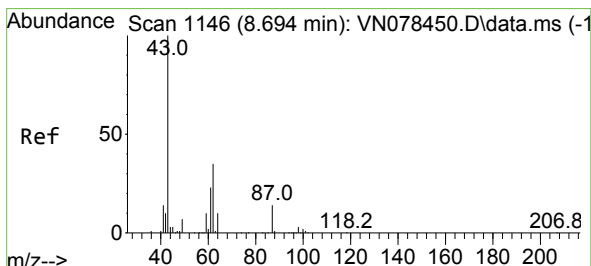
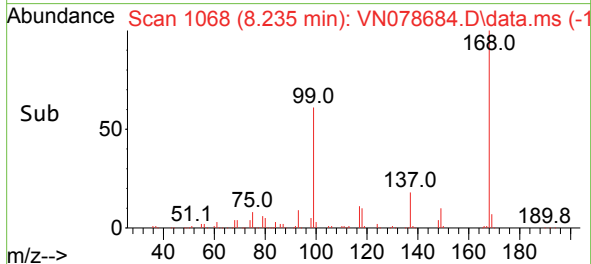
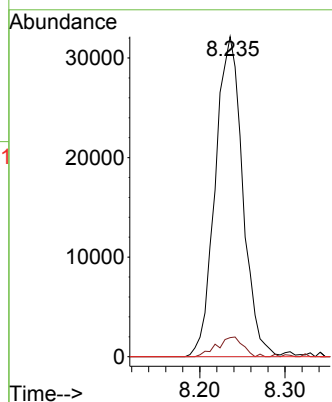
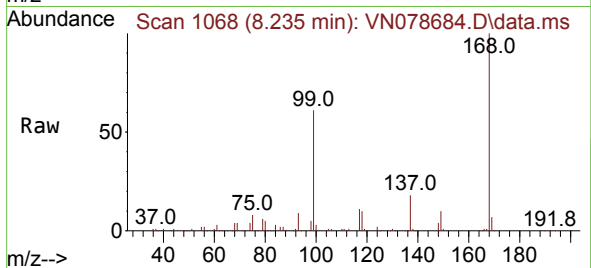




#38
Carbon Tetrachloride
Concen: 5.460 ug/l
RT: 8.235 min Scan# 1100
Delta R.T. -0.130 min
Lab File: VN078684.D
Acq: 28 Jul 2023 14:50

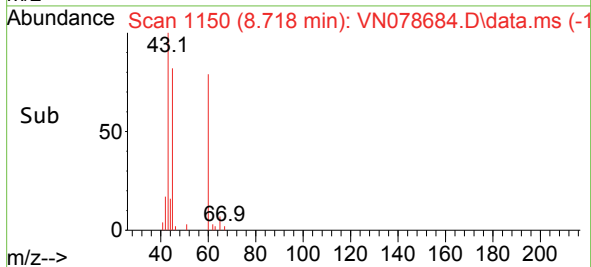
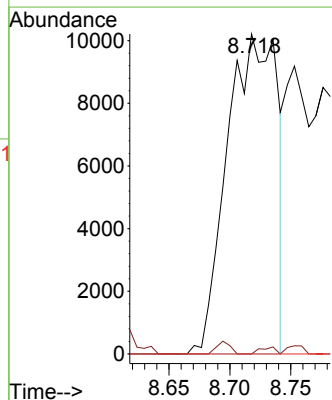
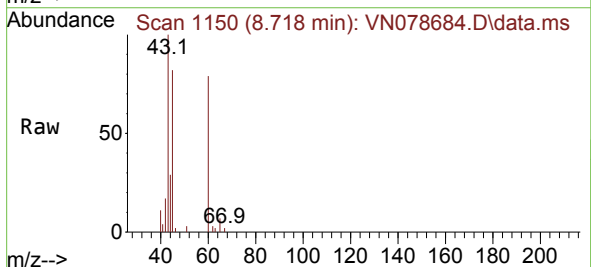
Instrument :
MSVOA_N
ClientSampleId :
MW-17-20230727

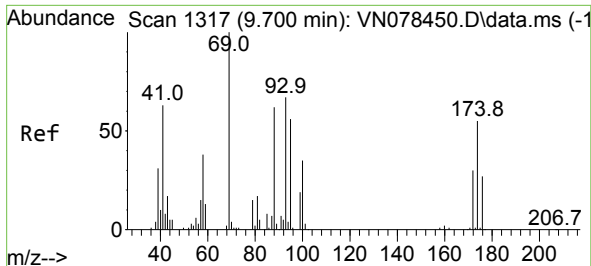
Tgt Ion:117 Resp: 71778
Ion Ratio Lower Upper
117 100
119 5.9 77.3 115.9#
121 0.0 23.3 34.9#



#43
Isopropyl Acetate
Concen: 1.756 ug/l
RT: 8.718 min Scan# 1150
Delta R.T. 0.024 min
Lab File: VN078684.D
Acq: 28 Jul 2023 14:50

Tgt Ion: 43 Resp: 29144
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#





#49

1,4-Dioxane

Concen: 1.222 ug/l

RT: 9.718 min Scan# 11

Delta R.T. 0.018 min

Lab File: VN078684.D

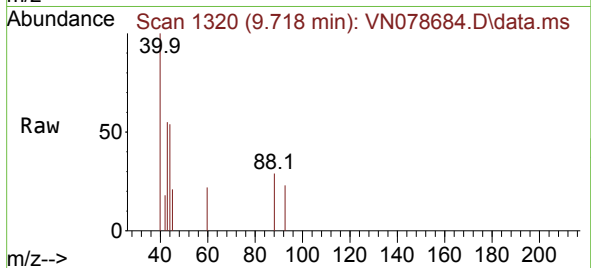
Acq: 28 Jul 2023 14:50

Instrument :

MSVOA_N

ClientSampleId :

MW-17-20230727



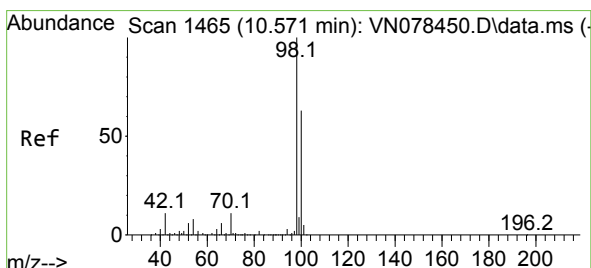
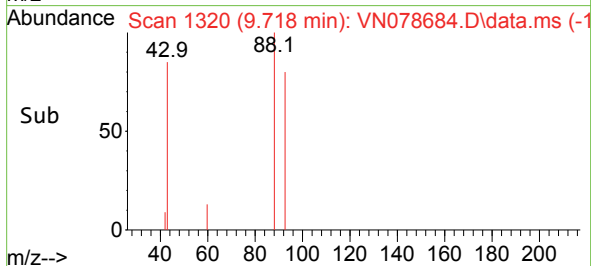
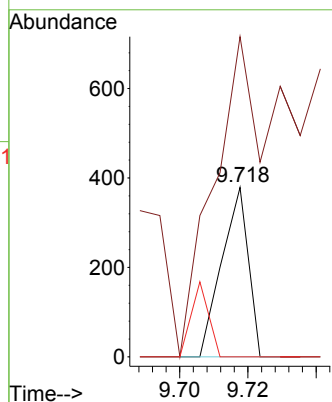
Tgt Ion: 88 Resp: 205

Ion Ratio Lower Upper

88 100

43 323.4 17.0 25.6#

58 28.8 47.0 70.4#



#50

Toluene-d8

Concen: 47.217 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. 0.005 min

Lab File: VN078684.D

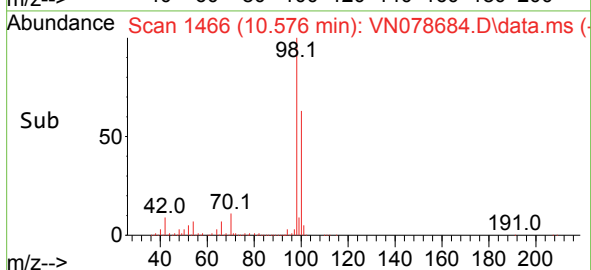
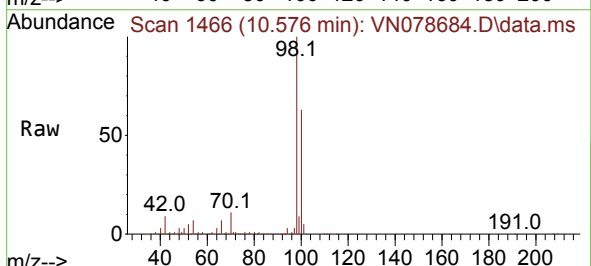
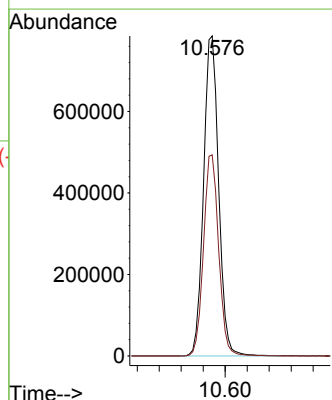
Acq: 28 Jul 2023 14:50

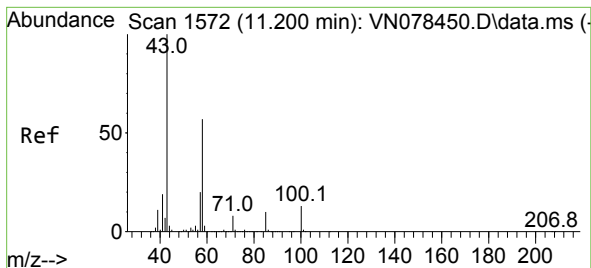
Tgt Ion: 98 Resp: 1494148

Ion Ratio Lower Upper

98 100

100 63.2 52.0 78.0

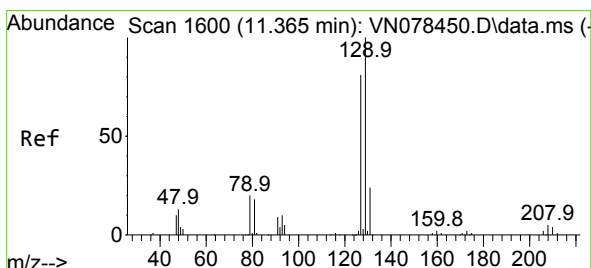
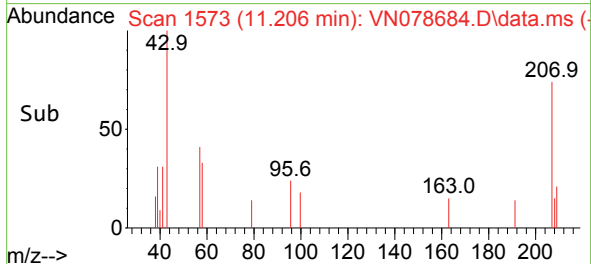
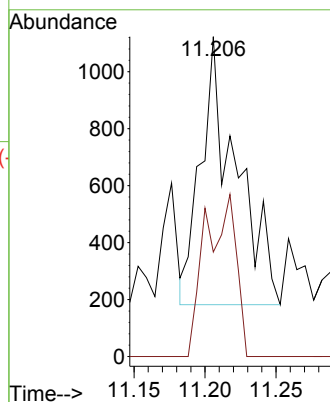
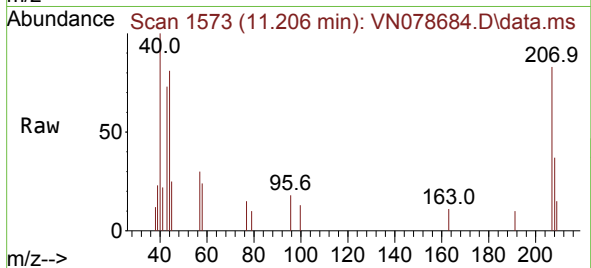




#59
2-Hexanone
Concen: 0.233 ug/l
RT: 11.206 min Scan# 1157
Delta R.T. 0.006 min
Lab File: VN078684.D
Acq: 28 Jul 2023 14:50

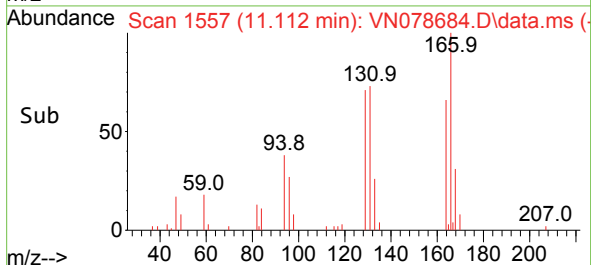
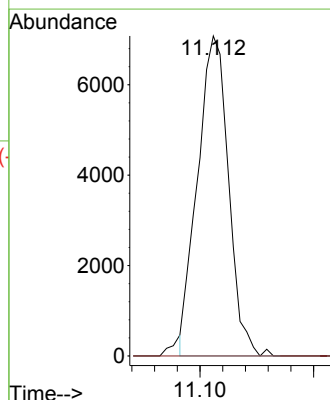
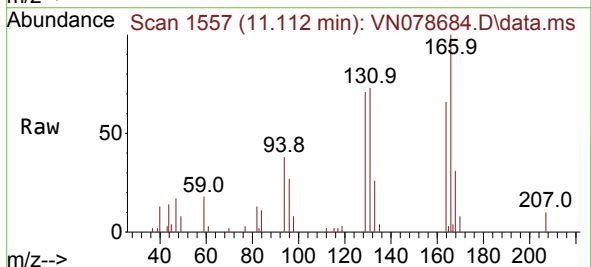
Instrument :
MSVOA_N
ClientSampleId :
MW-17-20230727

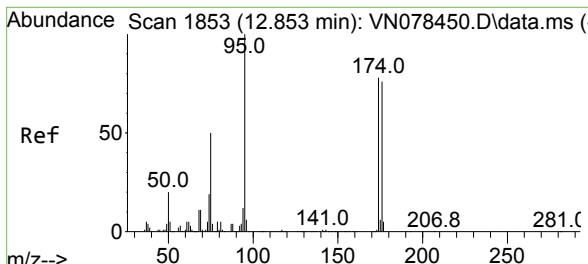
Tgt Ion: 43 Resp: 1632
Ion Ratio Lower Upper
43 100
58 52.2 31.7 95.1



#60
Dibromochloromethane
Concen: 1.386 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. -0.253 min
Lab File: VN078684.D
Acq: 28 Jul 2023 14:50

Tgt Ion: 129 Resp: 13391
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

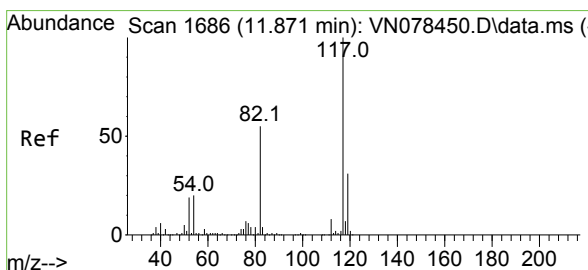
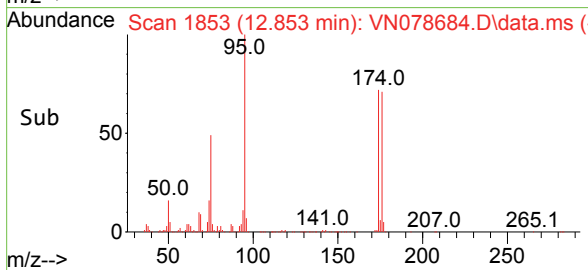
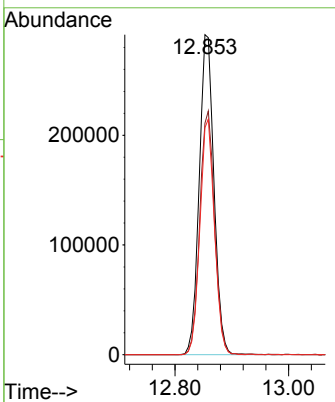
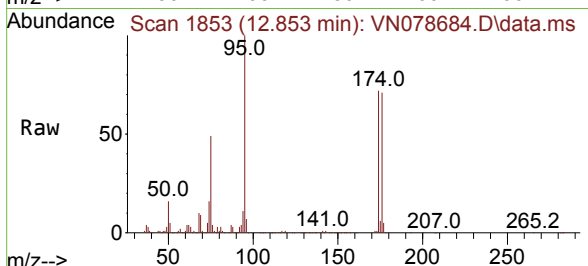




#62
 4-Bromofluorobenzene
 Concen: 53.666 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN078684.D
 Acq: 28 Jul 2023 14:50

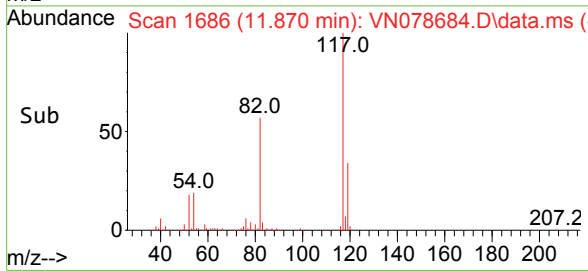
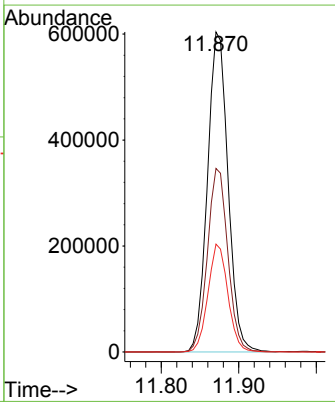
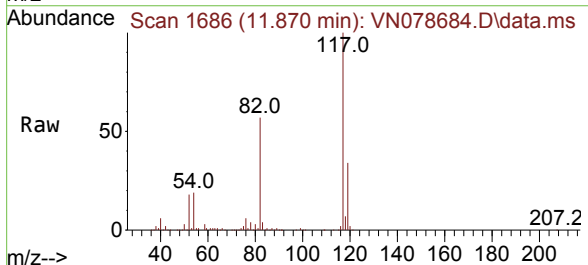
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17-20230727

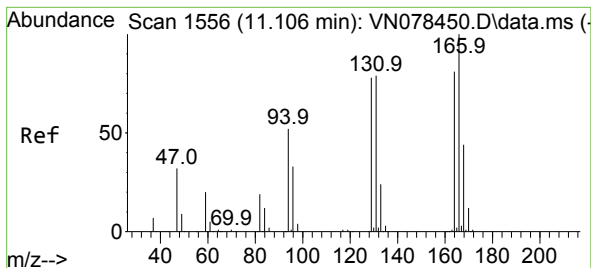
Tgt Ion:	95	Resp:	523085
Ion Ratio	Lower	Upper	
95	100		
174	76.5	0.0	143.8
176	72.4	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.870 min Scan# 1686
 Delta R.T. -0.001 min
 Lab File: VN078684.D
 Acq: 28 Jul 2023 14:50

Tgt Ion:	117	Resp:	1111050
Ion Ratio	Lower	Upper	
117	100		
82	57.4	44.0	66.0
119	33.7	25.6	38.4





#64

Tetrachloroethene

Concen: 1.430 ug/l

RT: 11.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078684.D

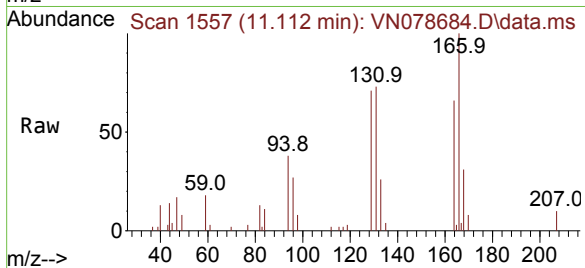
Acq: 28 Jul 2023 14:50

Instrument :

MSVOA_N

ClientSampleId :

MW-17-20230727



Tgt Ion:164 Resp: 11949

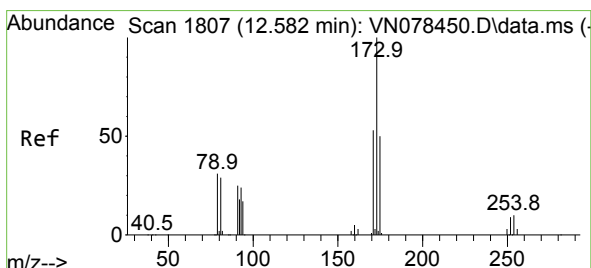
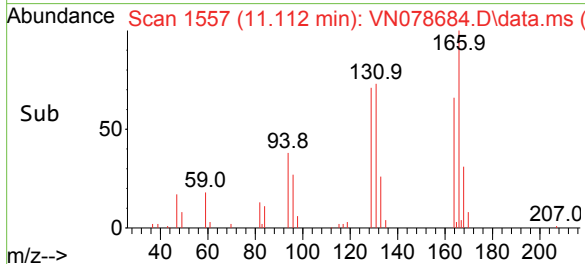
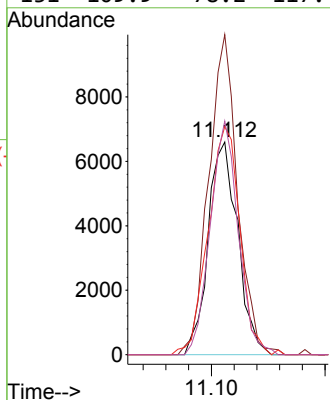
Ion Ratio Lower Upper

164 100

166 150.5 101.4 152.0

129 105.0 82.4 123.6

131 109.9 78.2 117.4



#71

Bromoform

Concen: 0.378 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.271 min

Lab File: VN078684.D

Acq: 28 Jul 2023 14:50

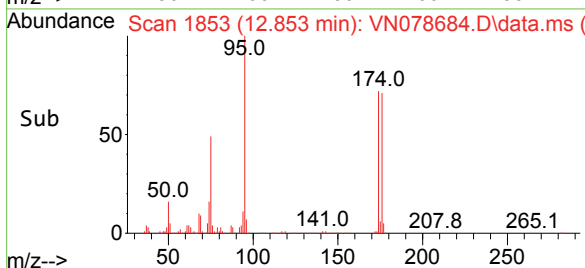
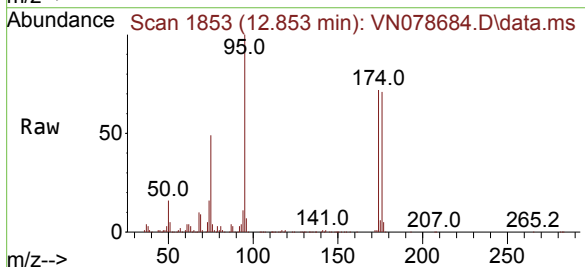
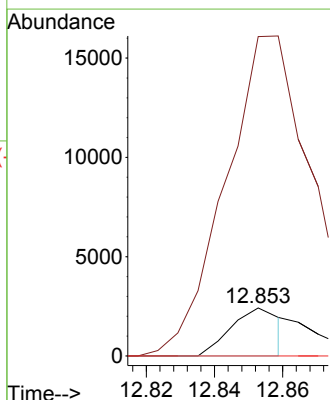
Tgt Ion:173 Resp: 2444

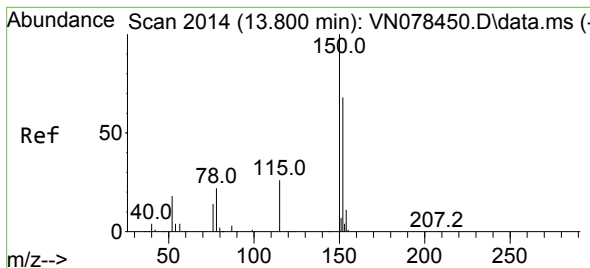
Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN078684.D

Acq: 28 Jul 2023 14:50

Instrument :

MSVOA_N

ClientSampleId :

MW-17-20230727

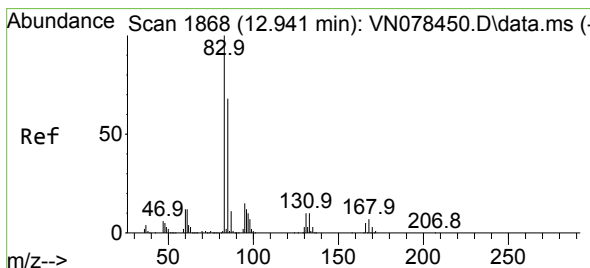
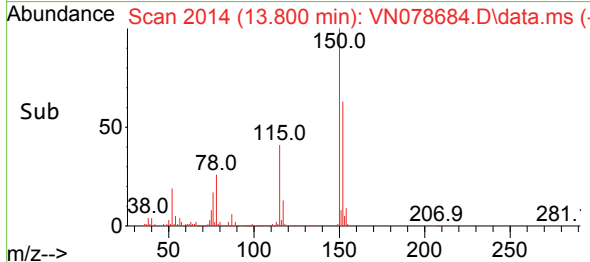
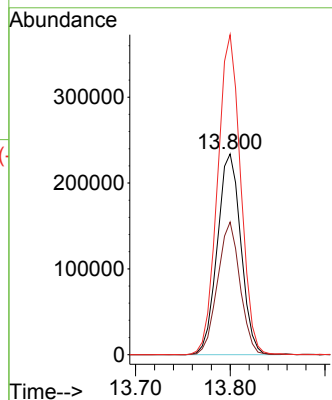
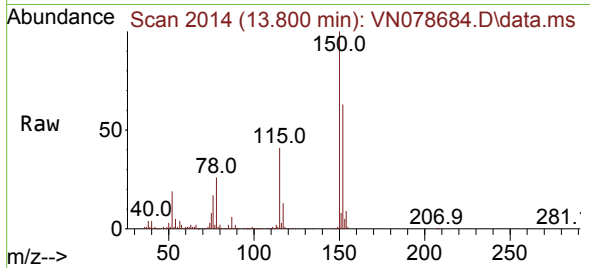
Tgt Ion:152 Resp: 404138

Ion Ratio Lower Upper

152 100

115 63.2 32.3 96.8

150 156.3 0.0 355.8



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.953 min Scan# 1870

Delta R.T. 0.012 min

Lab File: VN078684.D

Acq: 28 Jul 2023 14:50

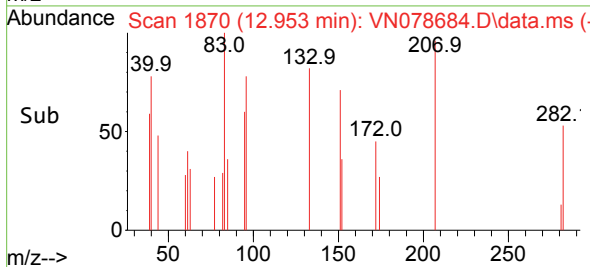
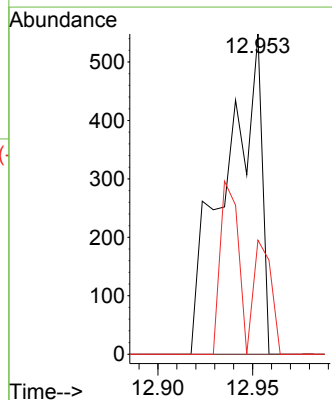
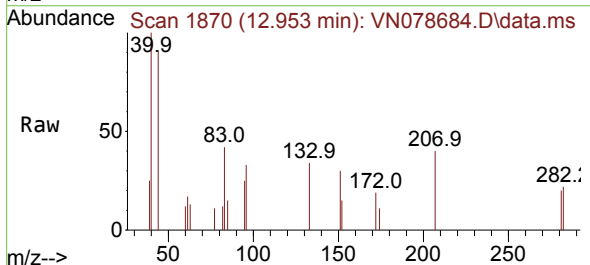
Tgt Ion: 83 Resp: 724

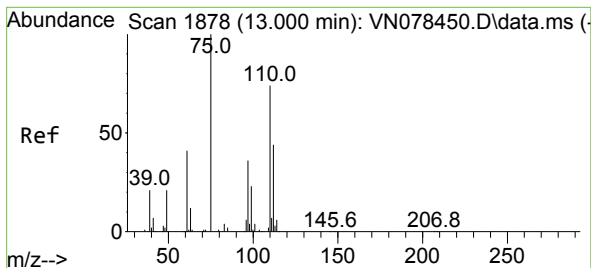
Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

85 26.8 31.9 95.7#





#76

1,2,3-Trichloropropane

Concen: 26.280 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078684.D

Acq: 28 Jul 2023 14:50

Instrument :

MSVOA_N

ClientSampleId :

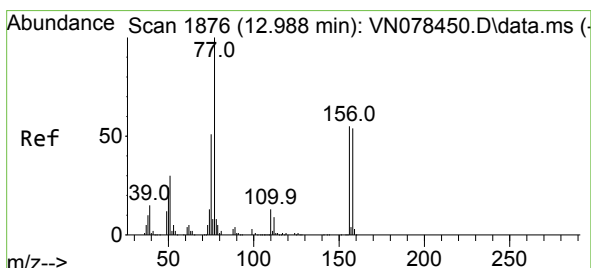
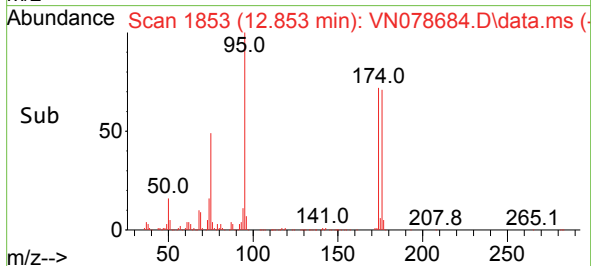
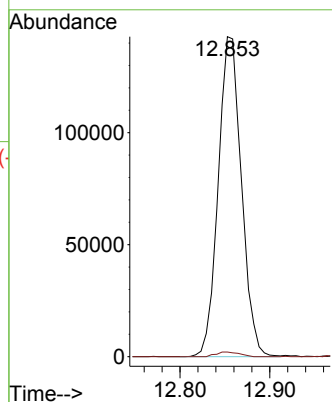
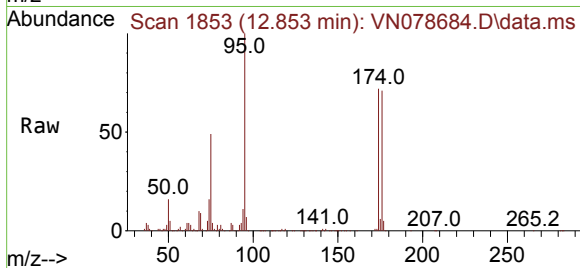
MW-17-20230727

Tgt Ion: 75 Resp: 256717

Ion Ratio Lower Upper

75 100

77 1.5 84.5 253.5#



#77

Bromobenzene

Concen: Below Cal

RT: 12.988 min Scan# 1876

Delta R.T. 0.000 min

Lab File: VN078684.D

Acq: 28 Jul 2023 14:50

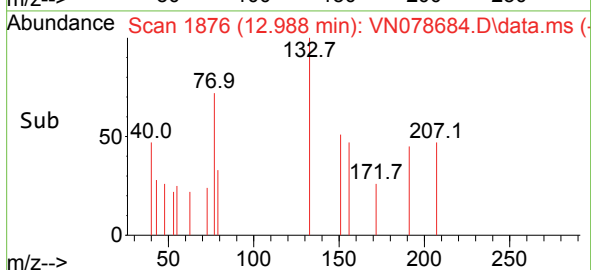
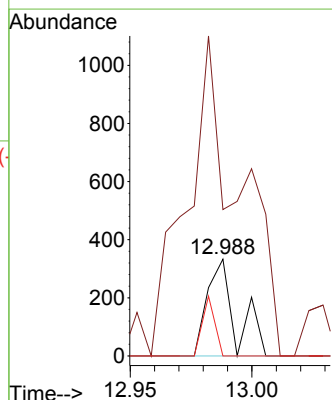
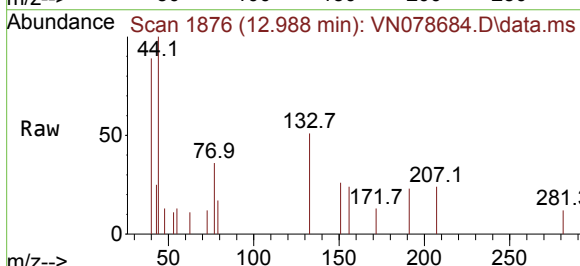
Tgt Ion:156 Resp: 272

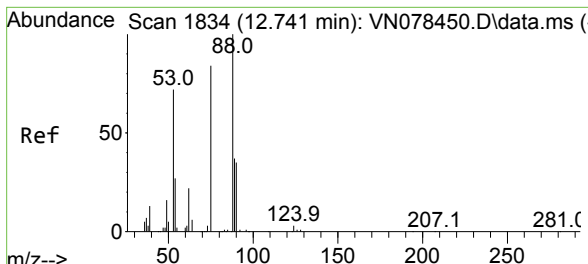
Ion Ratio Lower Upper

156 100

77 627.9 107.7 323.3#

158 26.8 48.4 145.3#

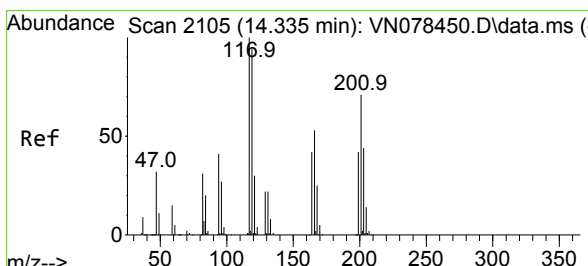
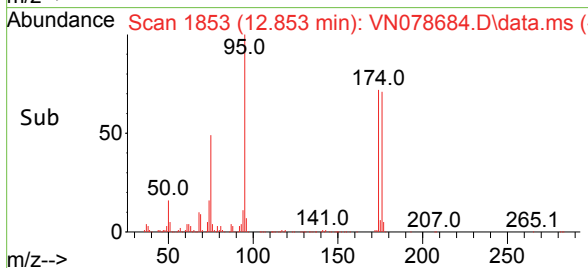
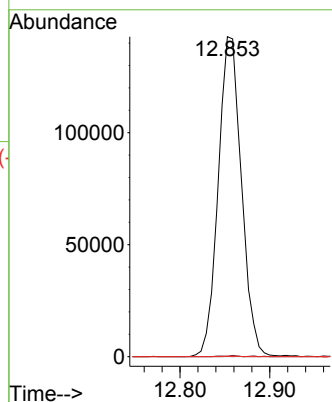
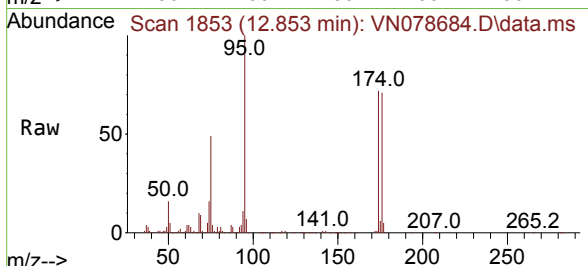




#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.059 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078684.D
 Acq: 28 Jul 2023 14:50

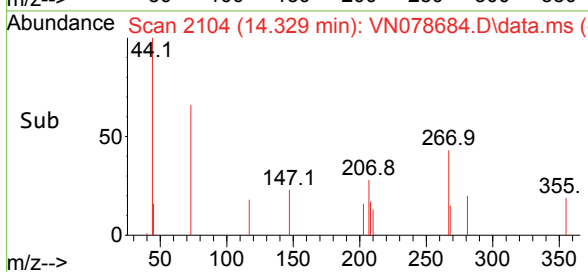
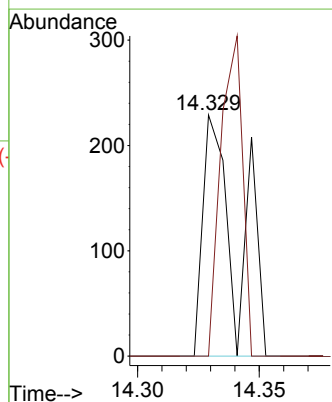
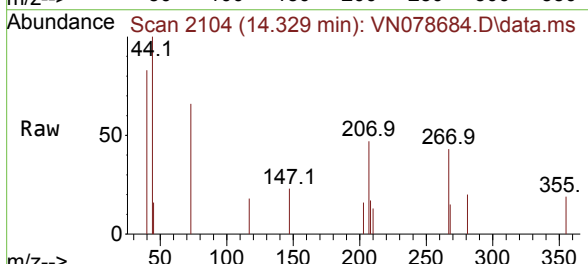
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17-20230727

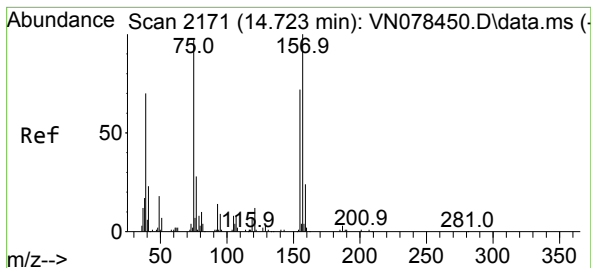
Tgt Ion: 75 Resp: 256717
 Ion Ratio Lower Upper
 75 100
 53 0.2 67.4 101.2#
 89 0.0 38.8 58.2#



#90
 Hexachloroethane
 Concen: Below Cal
 RT: 14.329 min Scan# 2104
 Delta R.T. -0.006 min
 Lab File: VN078684.D
 Acq: 28 Jul 2023 14:50

Tgt Ion: 117 Resp: 220
 Ion Ratio Lower Upper
 117 100
 201 86.4 29.3 88.0

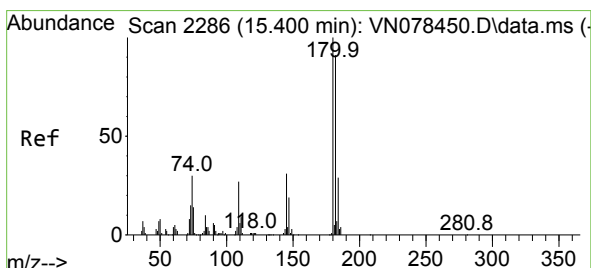
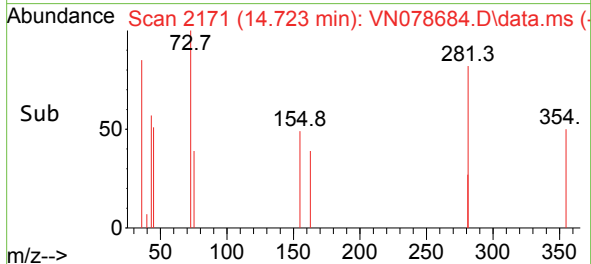
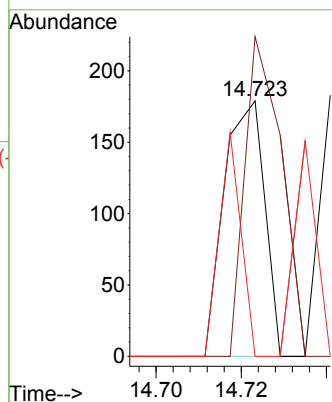
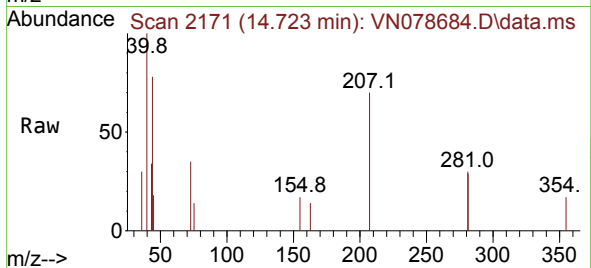




#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.723 min Scan# 2171
 Delta R.T. 0.000 min
 Lab File: VN078684.D
 Acq: 28 Jul 2023 14:50

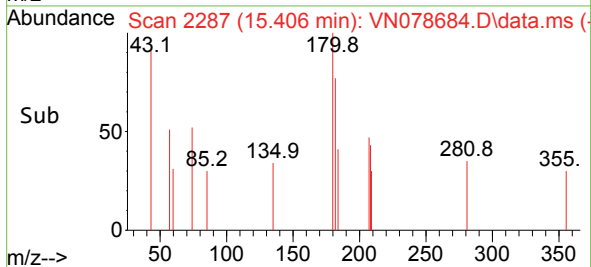
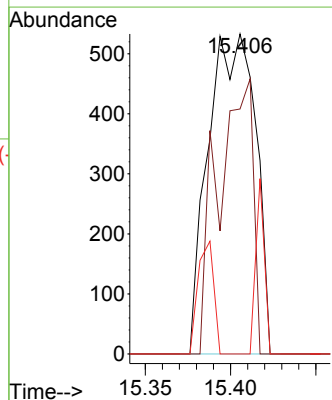
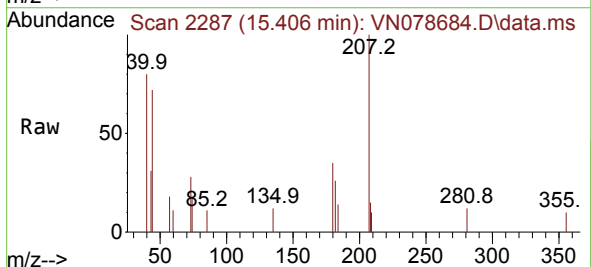
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-17-20230727

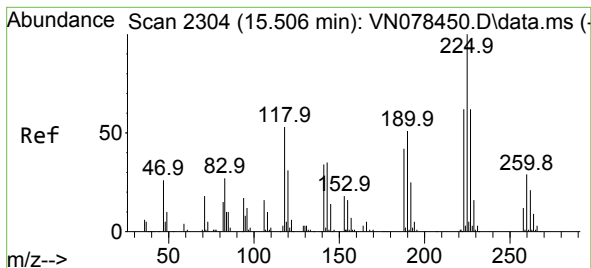
Tgt Ion: 75 Resp: 118
 Ion Ratio Lower Upper
 75 100
 155 113.6 39.1 117.2
 157 46.6 50.3 150.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.222 ug/l
 RT: 15.406 min Scan# 2287
 Delta R.T. 0.006 min
 Lab File: VN078684.D
 Acq: 28 Jul 2023 14:50

Tgt Ion: 180 Resp: 1029
 Ion Ratio Lower Upper
 180 100
 182 63.4 46.1 138.2
 145 10.0 16.6 49.8#





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.500 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN078684.D

Acq: 28 Jul 2023 14:50

Instrument :

MSVOA_N

ClientSampleId :

MW-17-20230727

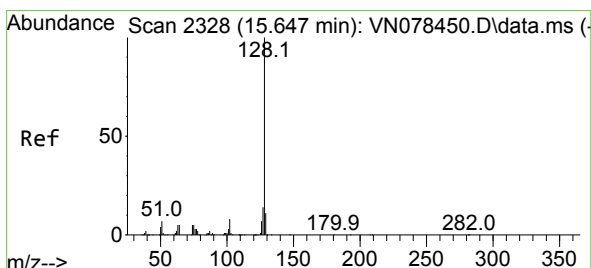
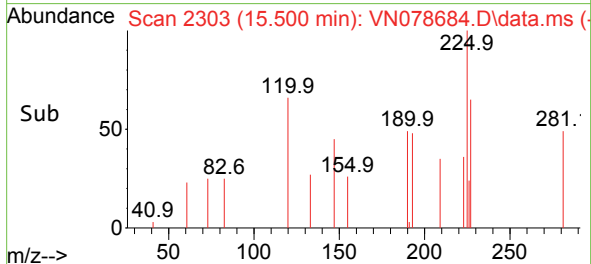
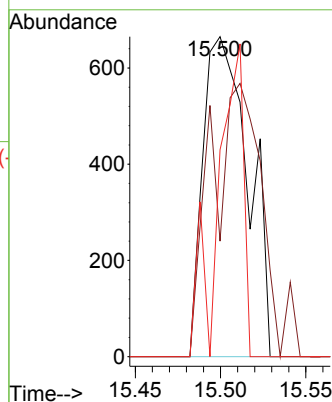
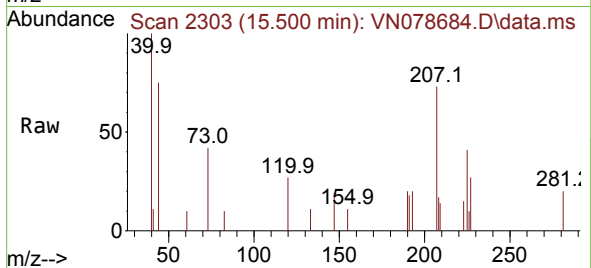
Tgt Ion:225 Resp: 1226

Ion Ratio Lower Upper

225 100

223 97.1 31.3 93.8#

227 55.5 31.9 95.9



#95

Naphthalene

Concen: 0.239 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. -0.000 min

Lab File: VN078684.D

Acq: 28 Jul 2023 14:50

Tgt Ion:128 Resp: 3781

Ion Ratio Lower Upper

128 100

127 3.8 10.0 15.0#

129 0.0 8.7 13.1#

