

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051823\
 Data File : VN077735.D
 Acq On : 18 May 2023 14:45
 Operator : JC\MD
 Sample : 02832-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-051723

Quant Time: May 29 08:50:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

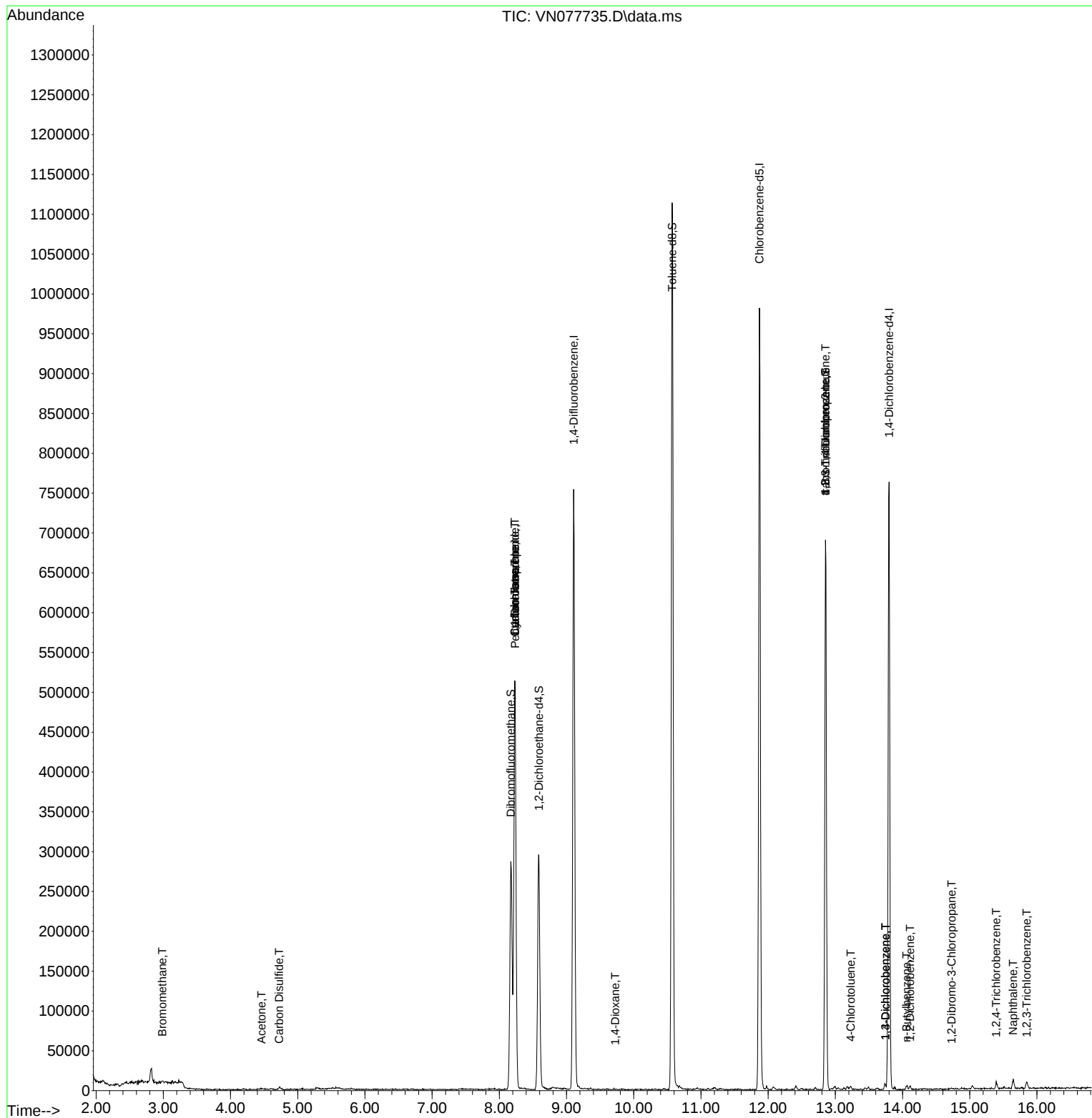
Internal Standards						
1) Pentafluorobenzene	8.236	168	364581	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	661409	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	573460	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	204371	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	245117	44.934	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.860%		
35) Dibromofluoromethane	8.171	113	209040	48.468	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.940%		
50) Toluene-d8	10.571	98	815829	49.144	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.280%		
62) 4-Bromofluorobenzene	12.853	95	252557	43.076	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	86.160%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1229	Below Cal	#	81
5) Bromomethane	2.983	94	1626	0.420	ug/l	95
13) Acrolein	4.195	56	360	Below Cal		97
16) Acetone	4.460	43	2147	1.251	ug/l #	73
17) Carbon Disulfide	4.724	76	3357	0.325	ug/l #	75
20) Methylene Chloride	5.295	84	1221	Below Cal	#	74
31) Cyclohexane	8.230	56	9081	1.225	ug/l #	36
36) 1,1-Dichloropropene	8.230	75	31574	5.005	ug/l #	47
38) Carbon Tetrachloride	8.230	117	41187	6.466	ug/l #	15
49) 1,4-Dioxane	9.724	88	55	0.669	ug/l #	1
76) 1,2,3-Trichloropropane	12.853	75	131196	25.633	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	131196	81.937	ug/l #	15
82) 4-Chlorotoluene	13.230	91	2684	0.218	ug/l	91
87) 1,3-Dichlorobenzene	13.747	146	2332	0.314	ug/l	89
88) 1,4-Dichlorobenzene	13.747	146	2332	0.316	ug/l	90
89) n-Butylbenzene	14.059	91	2887	0.214	ug/l	91
91) 1,2-Dichlorobenzene	14.112	146	1920	0.276	ug/l	90
92) 1,2-Dibromo-3-Chloropr...	14.730	75	225	0.214	ug/l #	39
93) 1,2,4-Trichlorobenzene	15.394	180	2524	0.622	ug/l	93
95) Naphthalene	15.647	128	10526	0.753	ug/l	96
96) 1,2,3-Trichlorobenzene	15.847	180	3465	0.872	ug/l	92

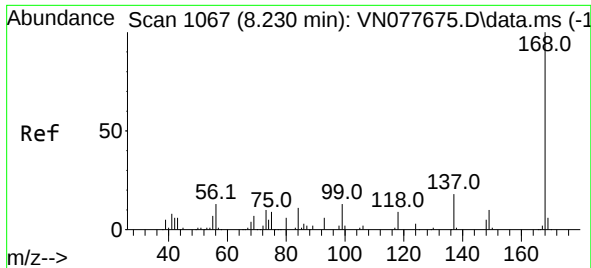
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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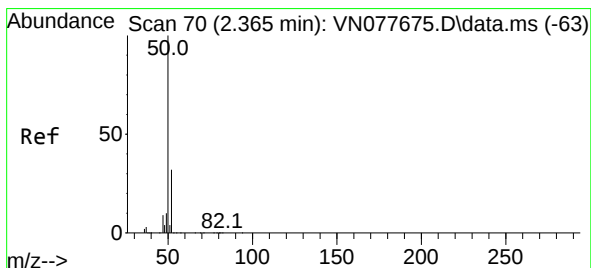
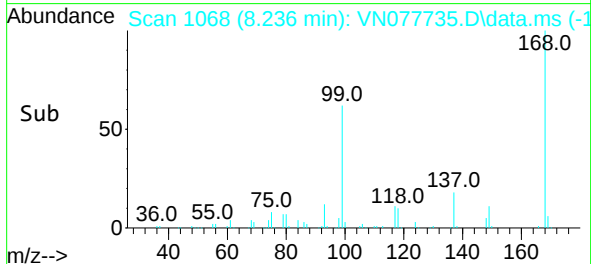
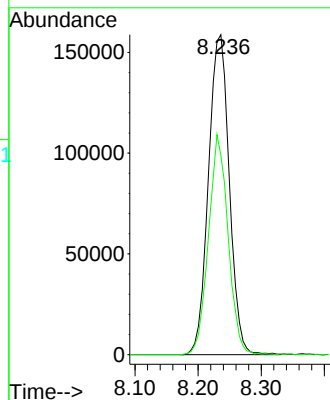
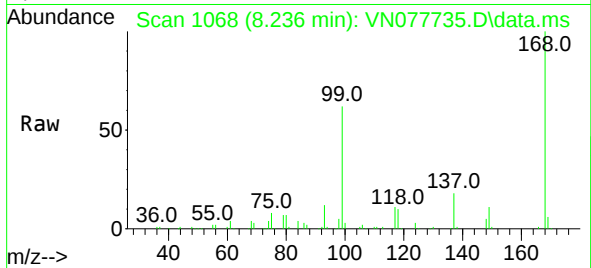




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

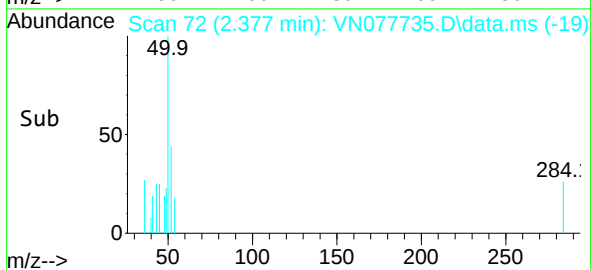
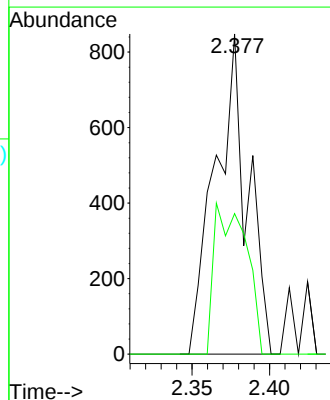
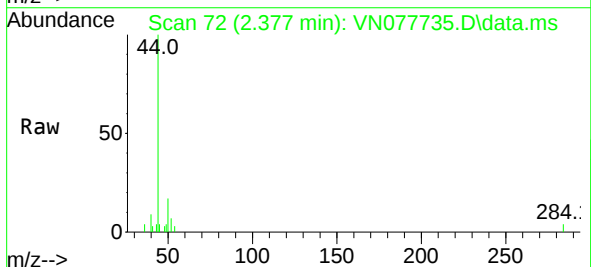
Instrument :
MSVOA_N
ClientSampleId :
TB-01-051723

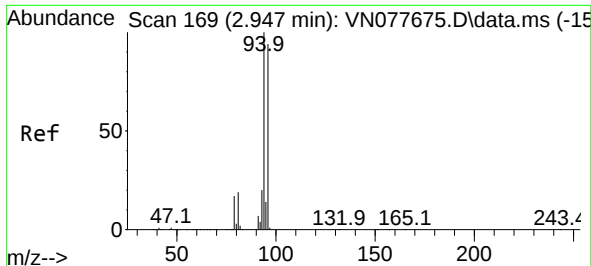
Tgt Ion:168 Resp: 364581
Ion Ratio Lower Upper
168 100
99 62.3 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.012 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

Tgt Ion: 50 Resp: 1229
Ion Ratio Lower Upper
50 100
52 43.9 26.5 39.7#

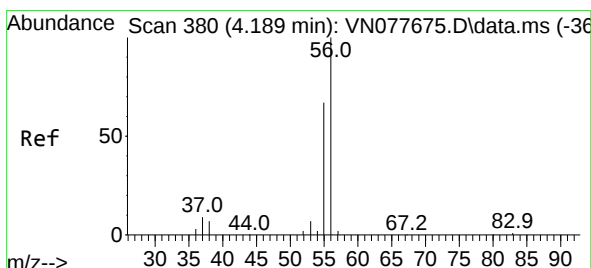
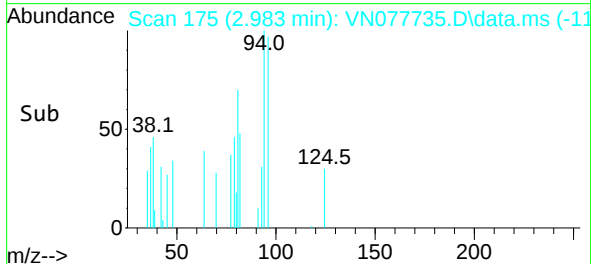
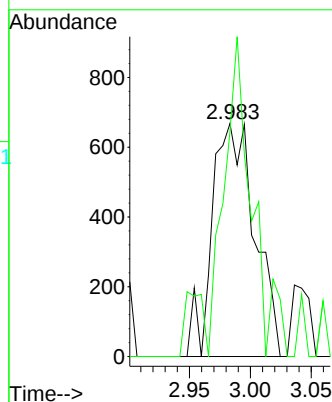
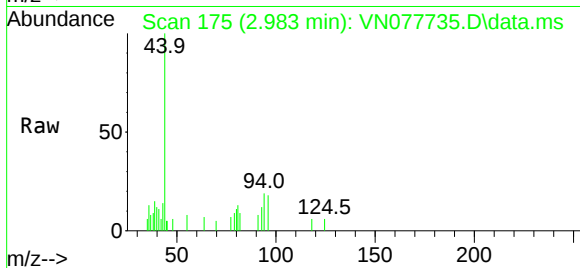




#5
Bromomethane
Concen: 0.420 ug/l
RT: 2.983 min Scan# 11
Delta R.T. 0.036 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

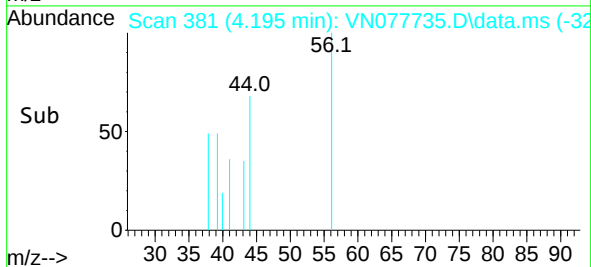
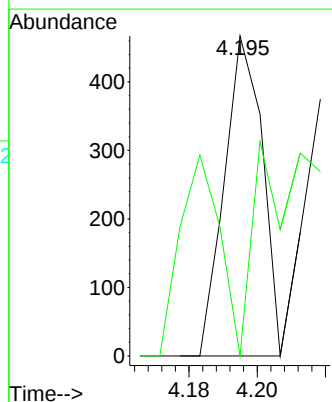
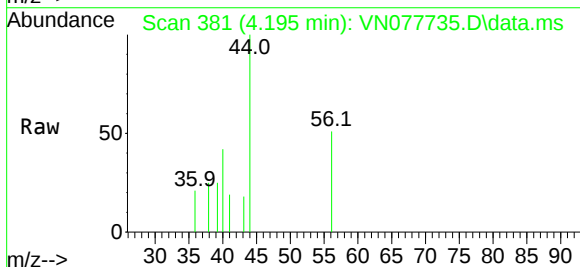
Instrument :
MSVOA_N
ClientSampleId :
TB-01-051723

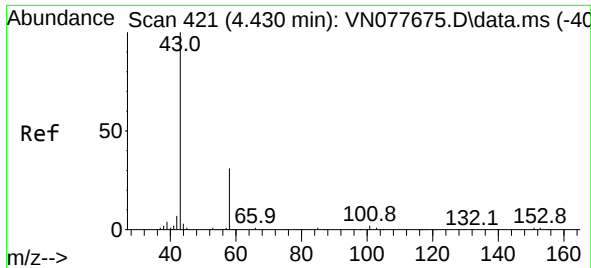
Tgt Ion: 94 Resp: 1626
Ion Ratio Lower Upper
94 100
96 96.6 73.1 109.7



#13
Acrolein
Concen: Below Cal
RT: 4.195 min Scan# 381
Delta R.T. 0.006 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

Tgt Ion: 56 Resp: 360
Ion Ratio Lower Upper
56 100
55 65.6 54.5 81.7

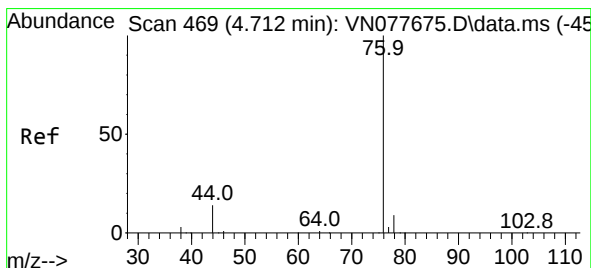
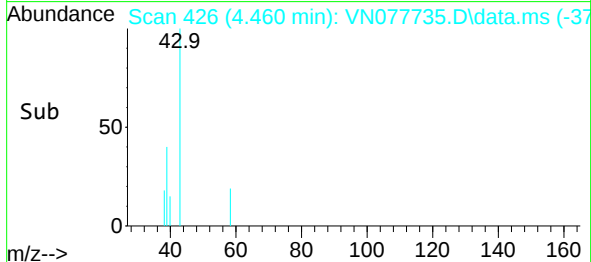
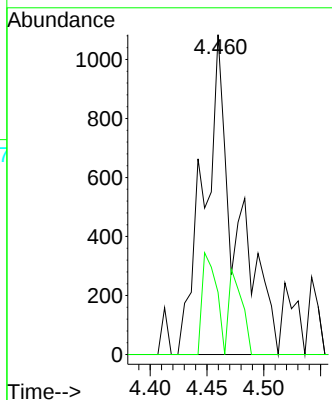
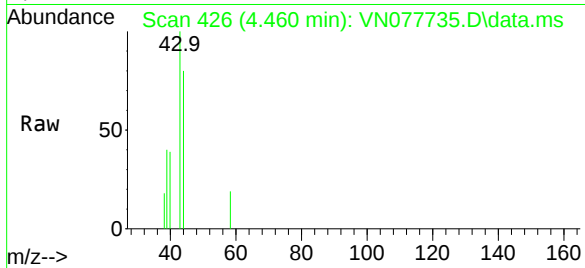




#16
Acetone
Concen: 1.251 ug/l
RT: 4.460 min Scan# 41
Delta R.T. 0.030 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

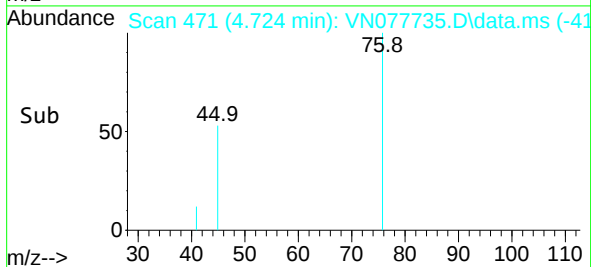
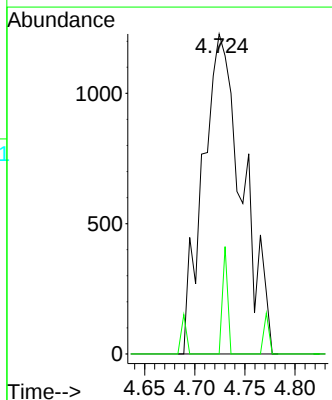
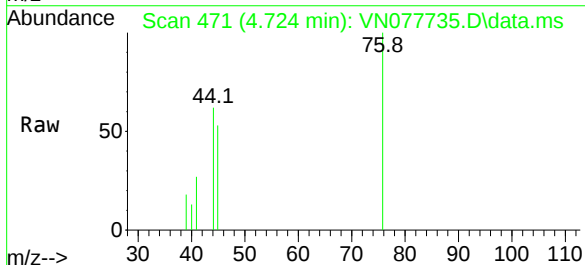
Instrument :
MSVOA_N
ClientSampleId :
TB-01-051723

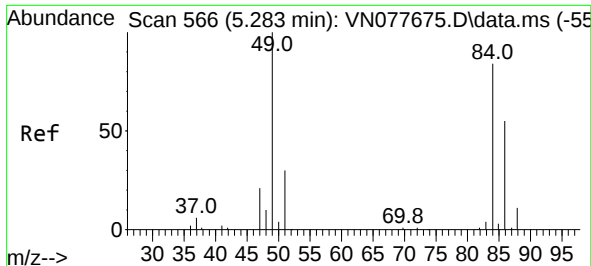
Tgt Ion: 43 Resp: 2147
Ion Ratio Lower Upper
43 100
58 19.5 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.325 ug/l
RT: 4.724 min Scan# 471
Delta R.T. 0.012 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

Tgt Ion: 76 Resp: 3357
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



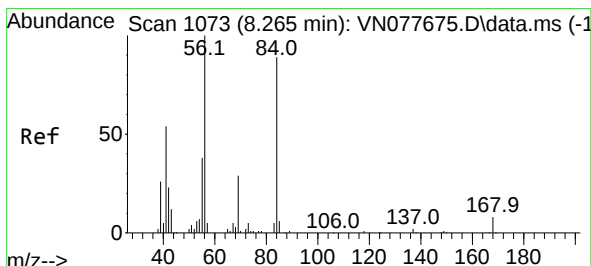
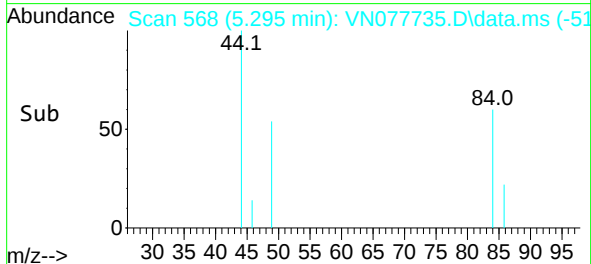
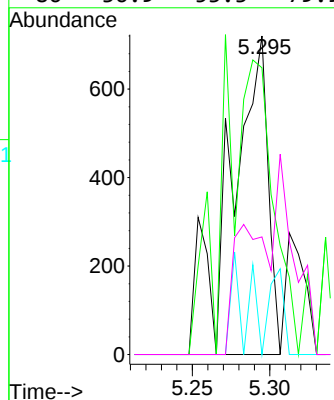
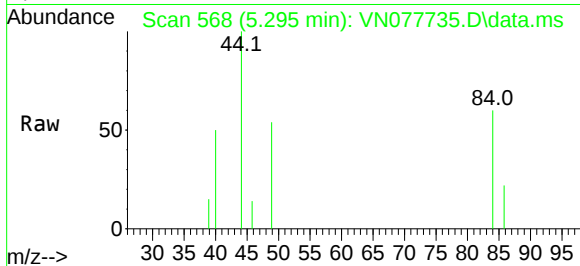


#20
Methylene Chloride
Concen: Below Cal
RT: 5.295 min Scan# 50
Delta R.T. 0.012 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

Instrument :
MSVOA_N
ClientSampleId :
TB-01-051723

Tgt Ion: 84 Resp: 1221

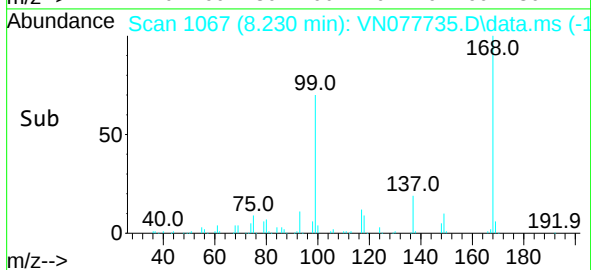
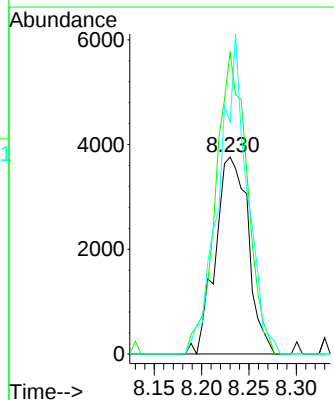
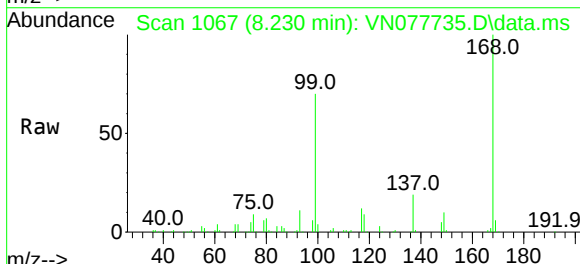
Ion	Ratio	Lower	Upper
84	100		
49	90.0	79.7	119.5
51	0.0	25.2	37.8#
86	36.9	53.3	79.9#

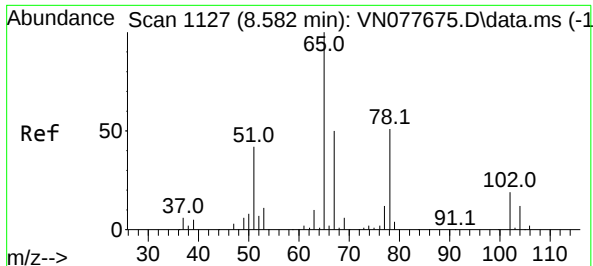


#31
Cyclohexane
Concen: 1.225 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

Tgt Ion: 56 Resp: 9081

Ion	Ratio	Lower	Upper
56	100		
69	153.2	26.8	40.2#
84	117.9	81.8	122.6





#33

1,2-Dichloroethane-d4

Concen: 44.934 ug/l

RT: 8.589 min Scan# 1128

Delta R.T. 0.007 min

Lab File: VN077735.D

Acq: 18 May 2023 14:45

Instrument :

MSVOA_N

ClientSampleId :

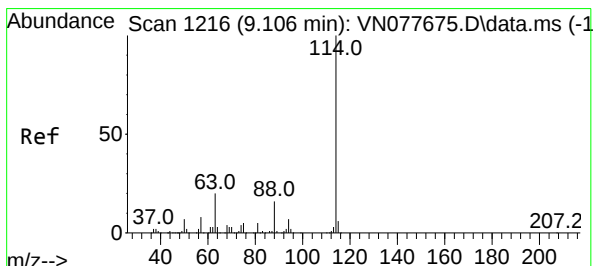
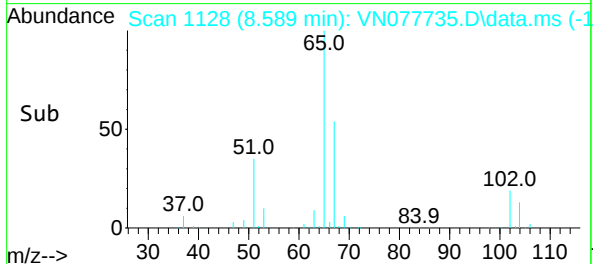
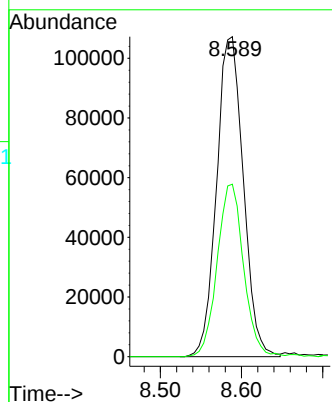
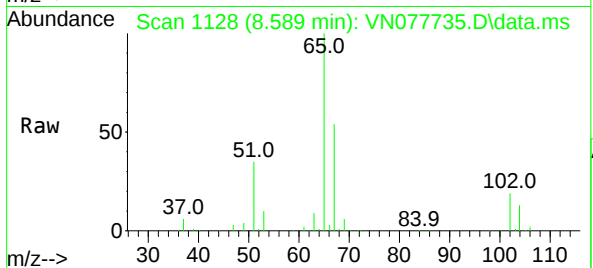
TB-01-051723

Tgt Ion: 65 Resp: 245117

Ion Ratio Lower Upper

65 100

67 53.3 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: VN077735.D

Acq: 18 May 2023 14:45

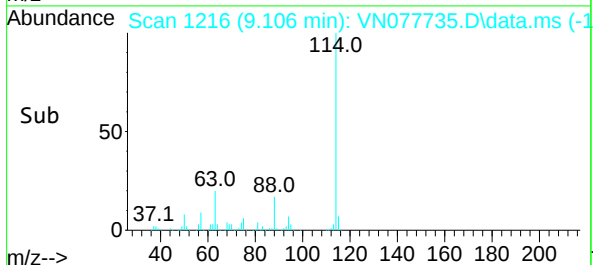
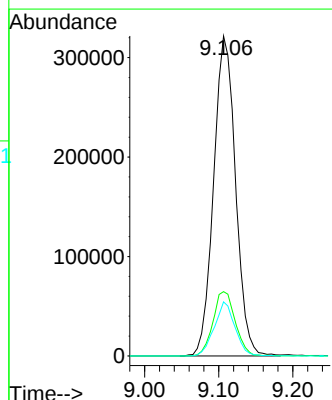
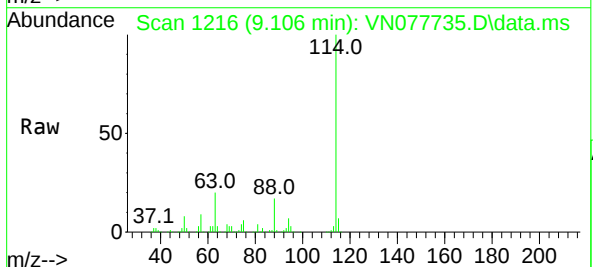
Tgt Ion: 114 Resp: 661409

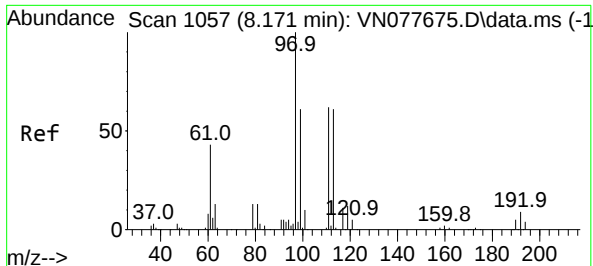
Ion Ratio Lower Upper

114 100

63 20.1 0.0 36.4

88 16.9 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.468 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN077735.D

Acq: 18 May 2023 14:45

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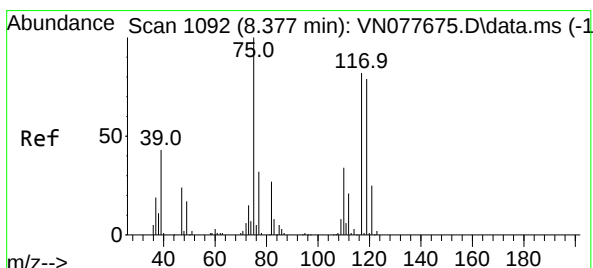
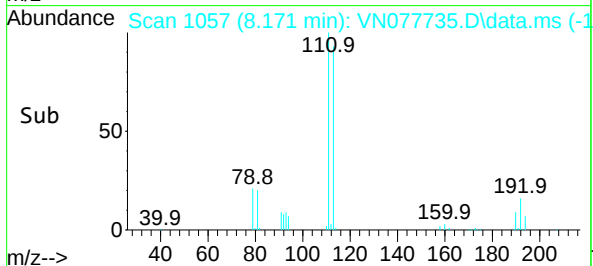
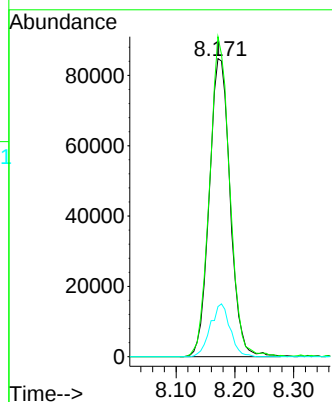
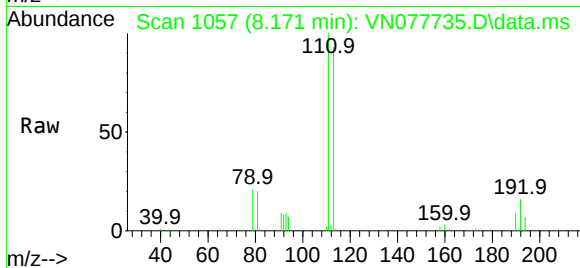
Tgt Ion:113 Resp: 209040

Ion Ratio Lower Upper

113 100

111 103.8 82.6 123.8

192 16.8 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.005 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN077735.D

Acq: 18 May 2023 14:45

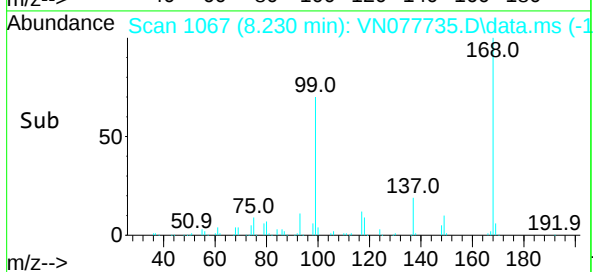
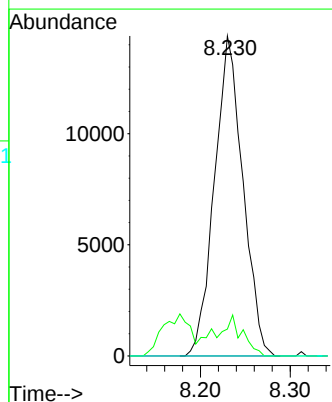
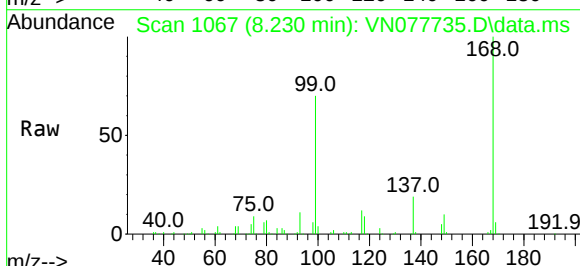
Tgt Ion: 75 Resp: 31574

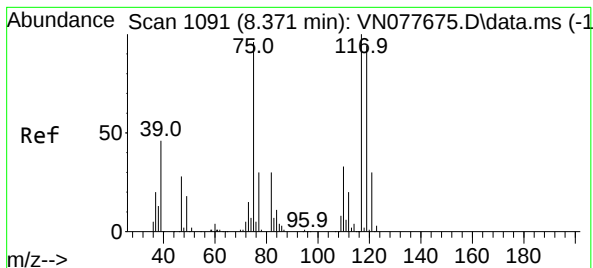
Ion Ratio Lower Upper

75 100

110 8.2 19.1 57.3#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.466 ug/l

RT: 8.230 min Scan# 1091

Delta R.T. -0.141 min

Lab File: VN077735.D

Acq: 18 May 2023 14:45

Instrument :

MSVOA_N

ClientSampleId :

TB-01-051723

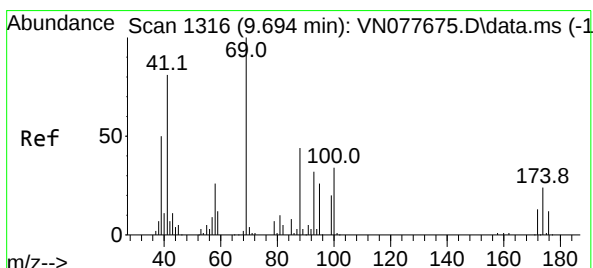
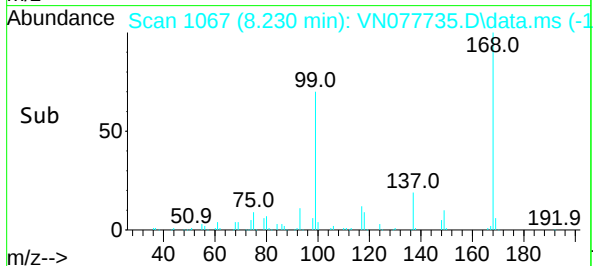
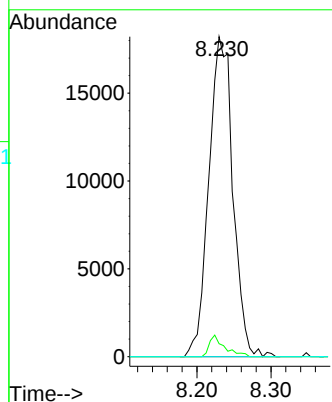
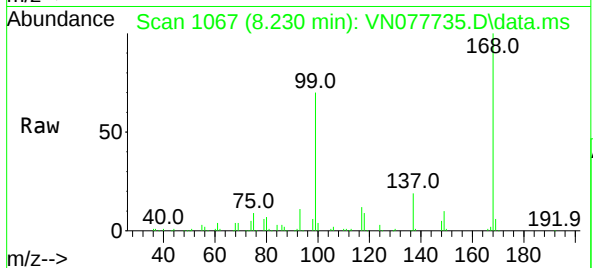
Tgt Ion:117 Resp: 41187

Ion Ratio Lower Upper

117 100

119 4.1 77.3 115.9#

121 0.0 23.3 34.9#



#49

1,4-Dioxane

Concen: 0.669 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.030 min

Lab File: VN077735.D

Acq: 18 May 2023 14:45

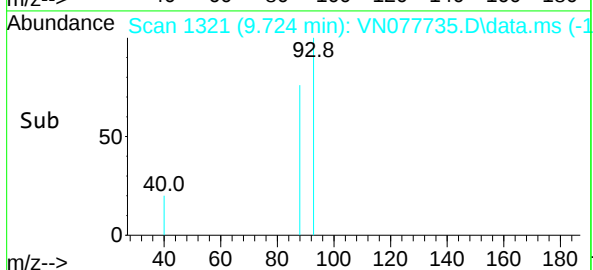
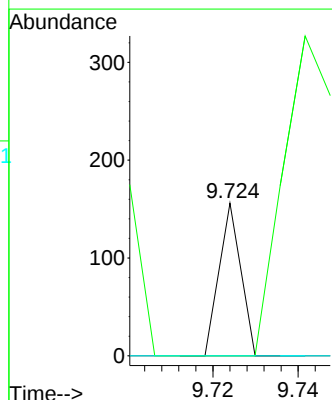
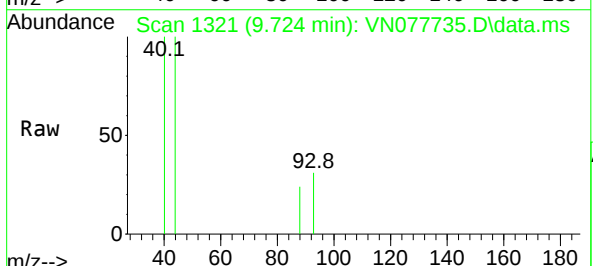
Tgt Ion: 88 Resp: 55

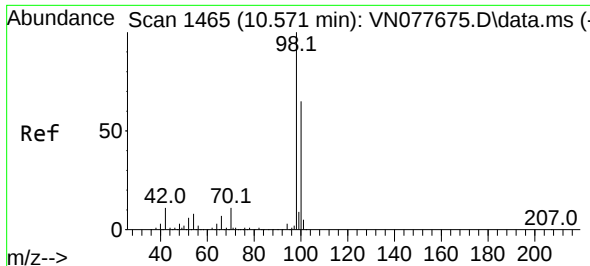
Ion Ratio Lower Upper

88 100

43 492.7 17.0 25.6#

58 0.0 47.0 70.4#

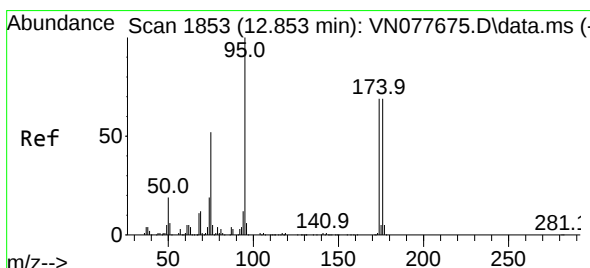
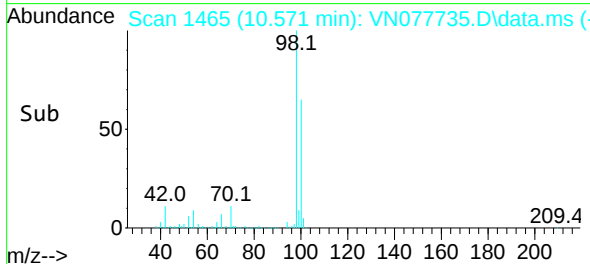
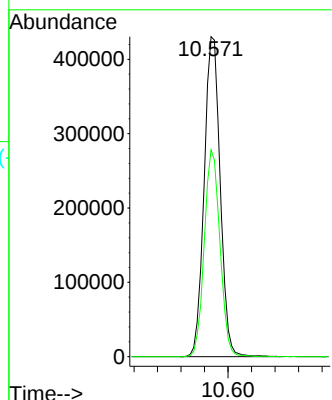
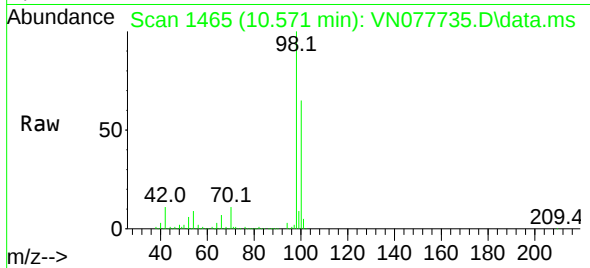




#50
Toluene-d8
Concen: 49.144 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

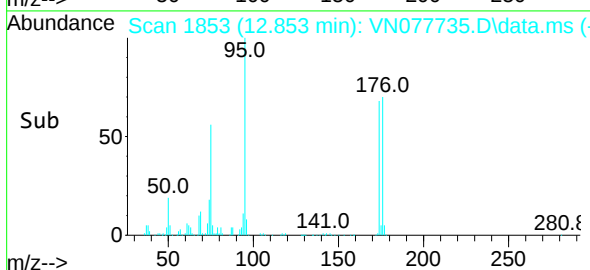
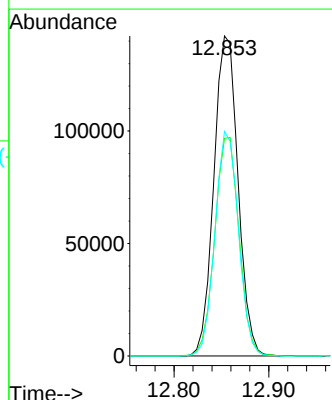
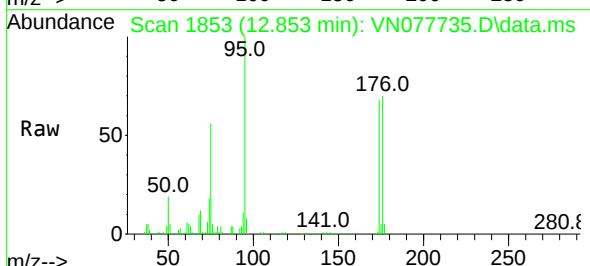
Instrument :
MSVOA_N
ClientSampleId :
TB-01-051723

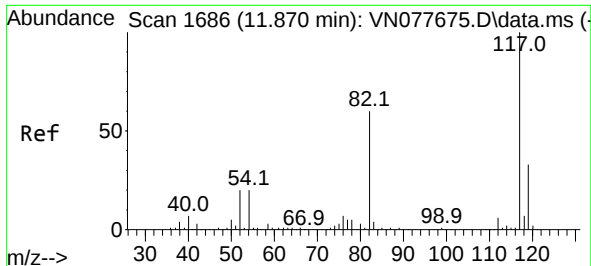
Tgt Ion: 98 Resp: 815829
Ion Ratio Lower Upper
98 100
100 63.2 52.0 78.0



#62
4-Bromofluorobenzene
Concen: 43.076 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

Tgt Ion: 95 Resp: 252557
Ion Ratio Lower Upper
95 100
174 68.8 0.0 143.8
176 68.2 0.0 135.8

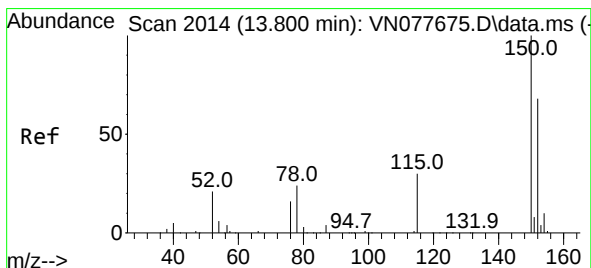
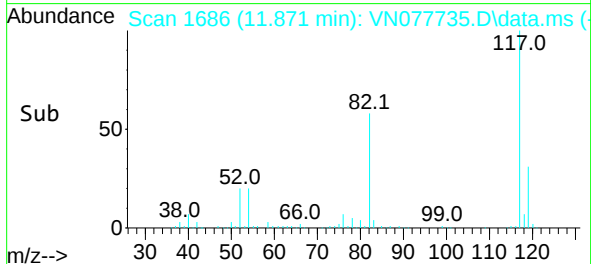
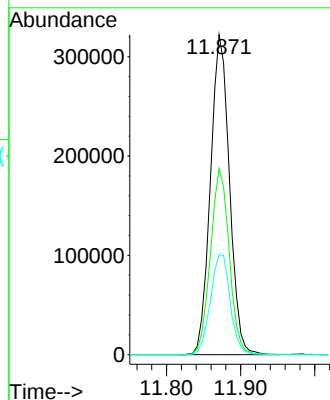
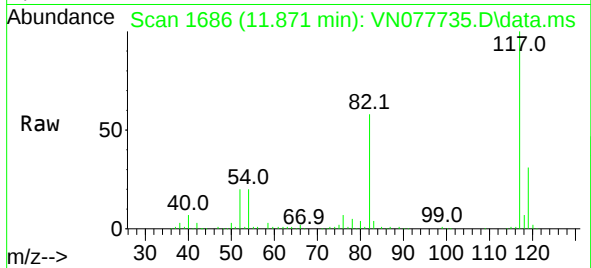




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.001 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

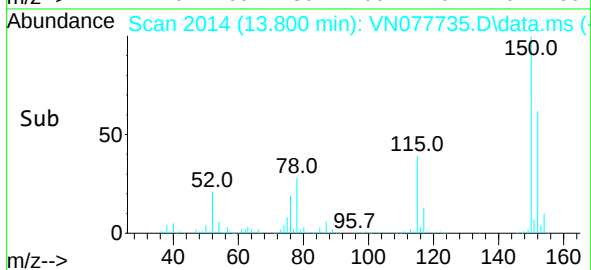
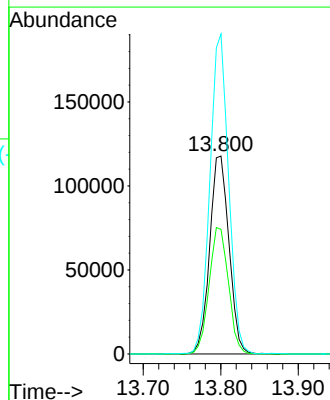
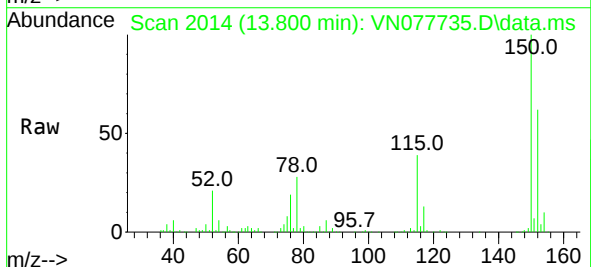
Instrument :
MSVOA_N
ClientSampleId :
TB-01-051723

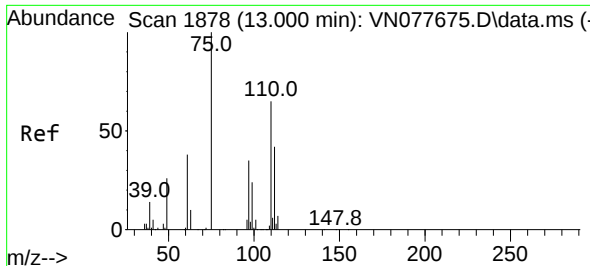
Tgt Ion:117 Resp: 573460
Ion Ratio Lower Upper
117 100
82 58.1 44.0 66.0
119 31.2 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. 0.000 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

Tgt Ion:152 Resp: 204371
Ion Ratio Lower Upper
152 100
115 63.7 32.3 96.8
150 155.9 0.0 355.8

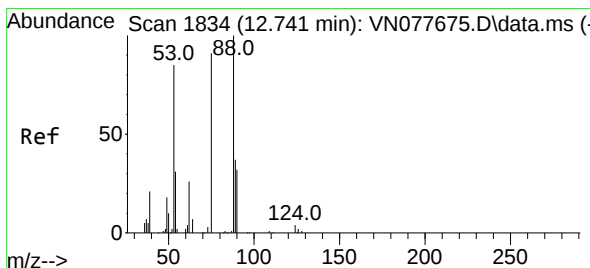
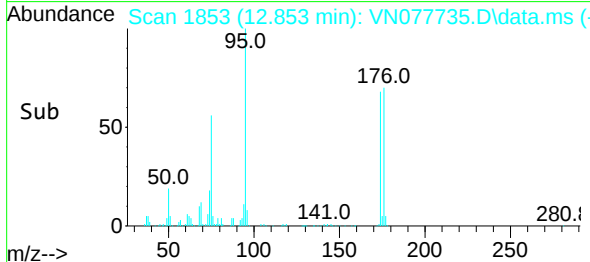
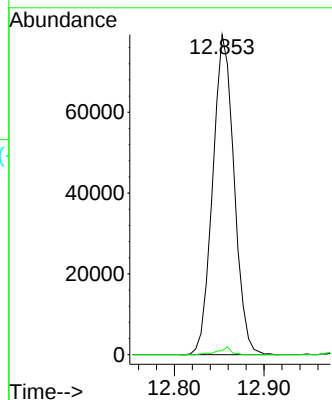
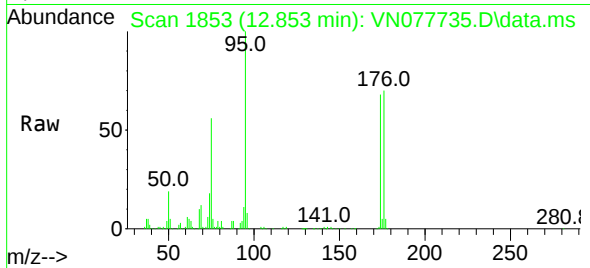




#76
1,2,3-Trichloropropane
Concen: 25.633 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

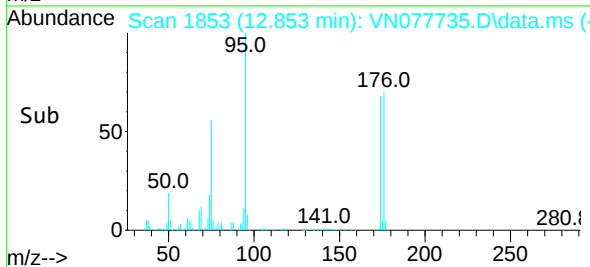
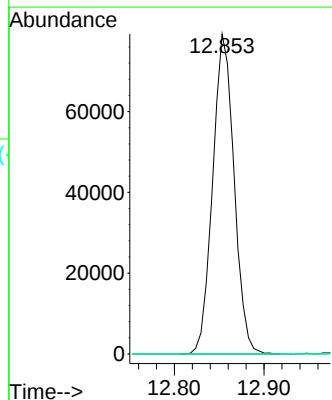
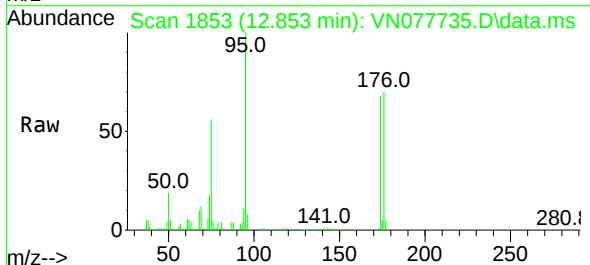
Instrument :
MSVOA_N
ClientSampleId :
TB-01-051723

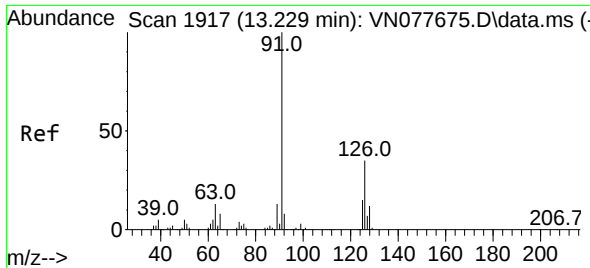
Tgt Ion: 75 Resp: 131196
Ion Ratio Lower Upper
75 100
77 1.5 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 81.937 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

Tgt Ion: 75 Resp: 131196
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

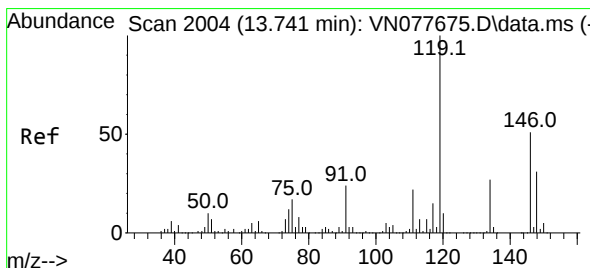
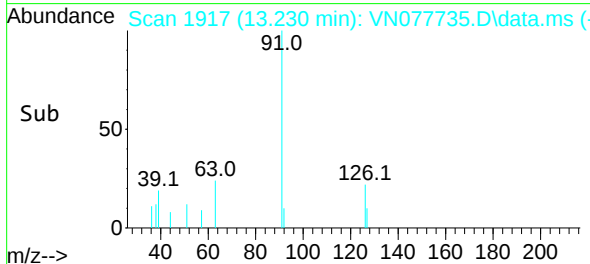
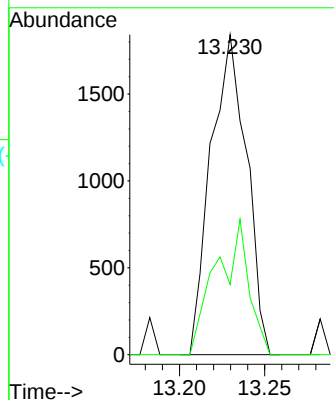
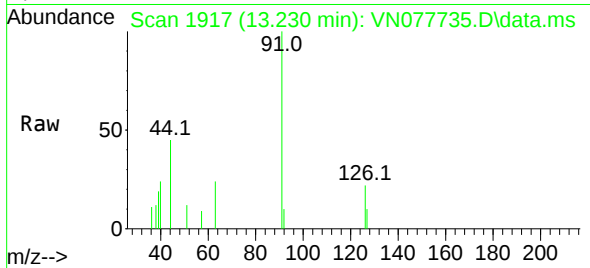




#82
4-Chlorotoluene
Concen: 0.218 ug/l
RT: 13.230 min Scan# 1917
Delta R.T. 0.001 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

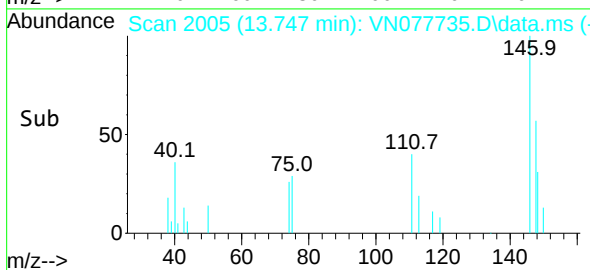
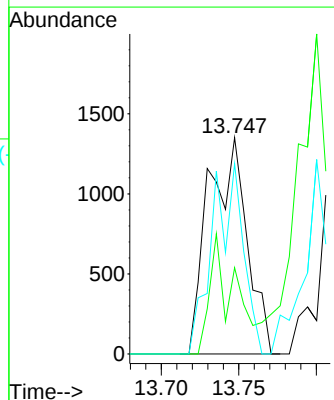
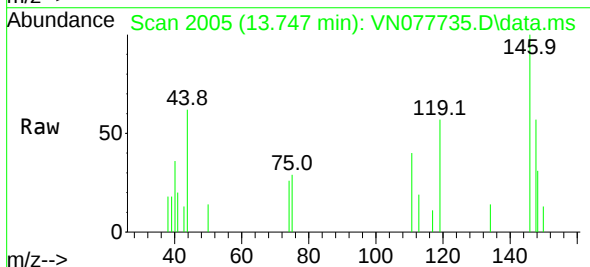
Instrument :
MSVOA_N
ClientSampleId :
TB-01-051723

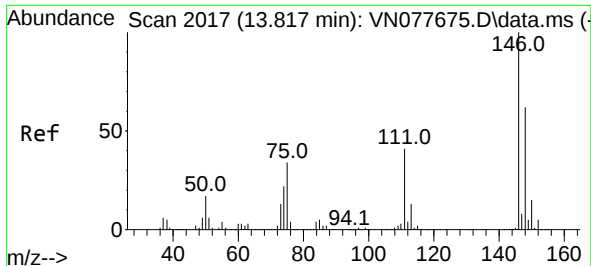
Tgt Ion: 91 Resp: 2684
Ion Ratio Lower Upper
91 100
126 38.7 16.7 50.0



#87
1,3-Dichlorobenzene
Concen: 0.314 ug/l
RT: 13.747 min Scan# 2005
Delta R.T. 0.006 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

Tgt Ion: 146 Resp: 2332
Ion Ratio Lower Upper
146 100
111 34.2 22.1 66.3
148 69.8 32.0 96.0

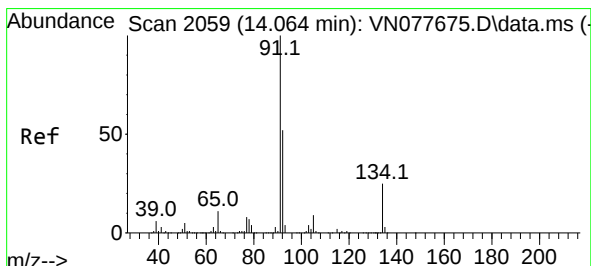
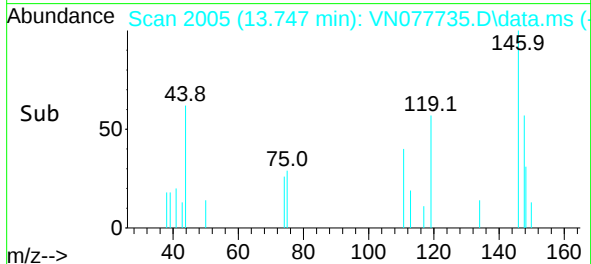
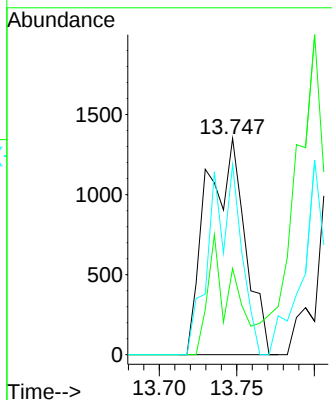
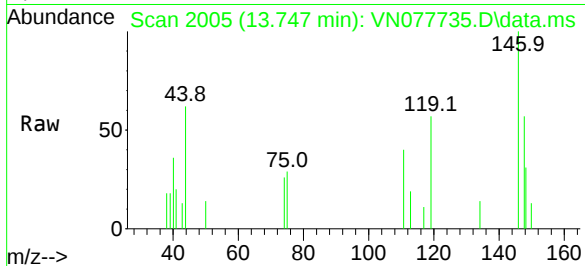




#88
1,4-Dichlorobenzene
Concen: 0.316 ug/l
RT: 13.747 min Scan# 2005
Delta R.T. -0.070 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

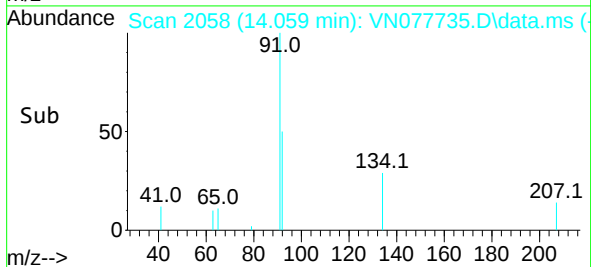
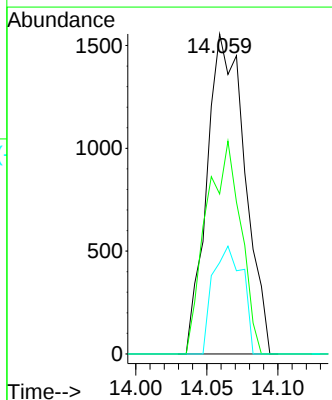
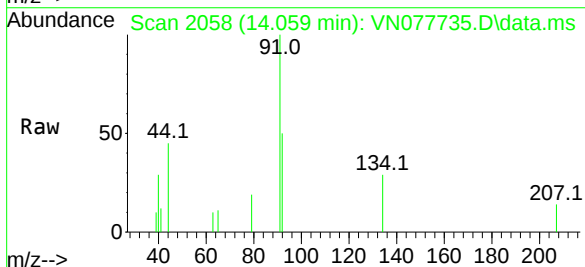
Instrument :
MSVOA_N
ClientSampleId :
TB-01-051723

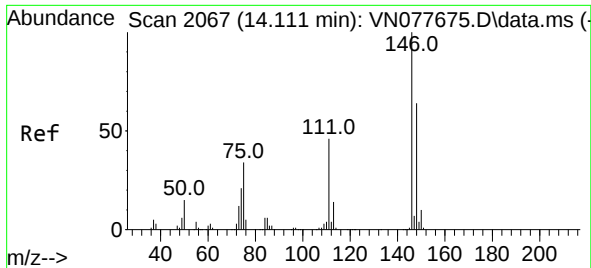
Tgt Ion:146 Resp: 2332
Ion Ratio Lower Upper
146 100
111 34.2 20.6 61.8
148 69.8 31.6 94.8



#89
n-Butylbenzene
Concen: 0.214 ug/l
RT: 14.059 min Scan# 2058
Delta R.T. -0.005 min
Lab File: VN077735.D
Acq: 18 May 2023 14:45

Tgt Ion: 91 Resp: 2887
Ion Ratio Lower Upper
91 100
92 60.7 26.4 79.0
134 26.5 12.6 37.6





#91

1,2-Dichlorobenzene

Concen: 0.276 ug/l

RT: 14.112 min Scan# 2067

Delta R.T. 0.001 min

Lab File: VN077735.D

Acq: 18 May 2023 14:45

Instrument :

MSVOA_N

ClientSampleId :

TB-01-051723

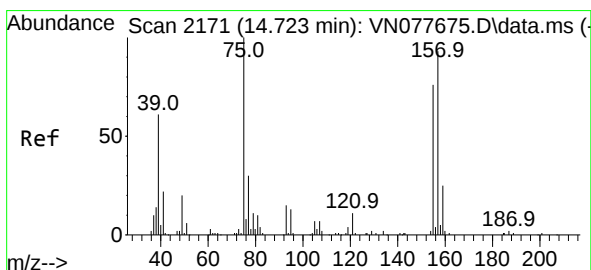
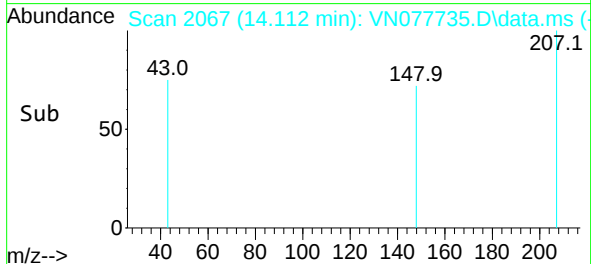
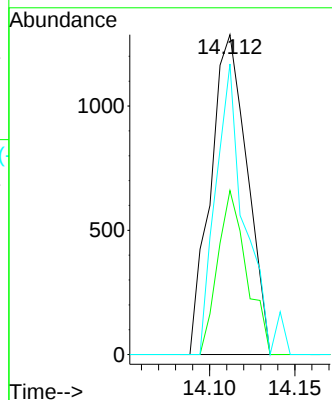
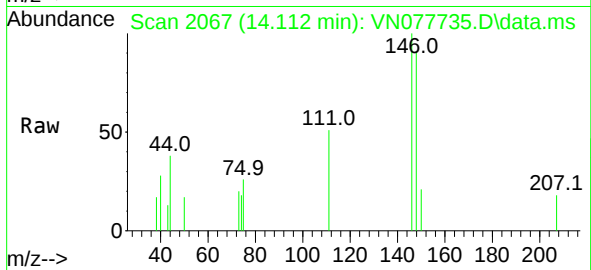
Tgt Ion:146 Resp: 1920

Ion Ratio Lower Upper

146 100

111 40.6 22.0 66.0

148 73.5 31.8 95.3



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.214 ug/l

RT: 14.730 min Scan# 2172

Delta R.T. 0.007 min

Lab File: VN077735.D

Acq: 18 May 2023 14:45

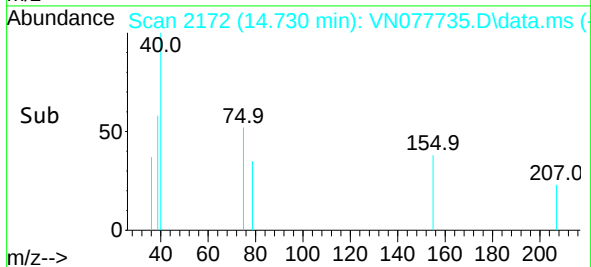
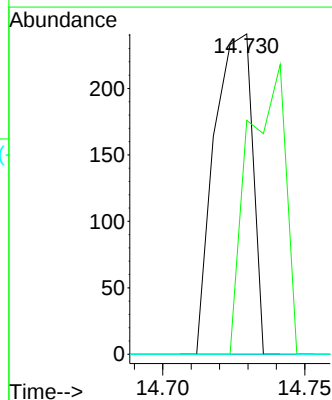
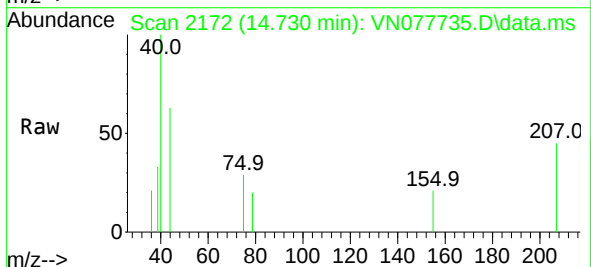
Tgt Ion: 75 Resp: 225

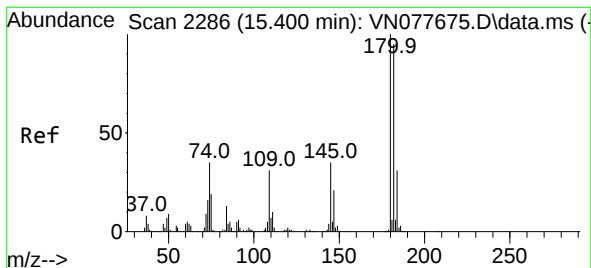
Ion Ratio Lower Upper

75 100

155 88.0 39.1 117.2

157 0.0 50.3 150.9#





#93

1,2,4-Trichlorobenzene

Concen: 0.622 ug/l

RT: 15.394 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN077735.D

Acq: 18 May 2023 14:45

Instrument :

MSVOA_N

ClientSampleId :

TB-01-051723

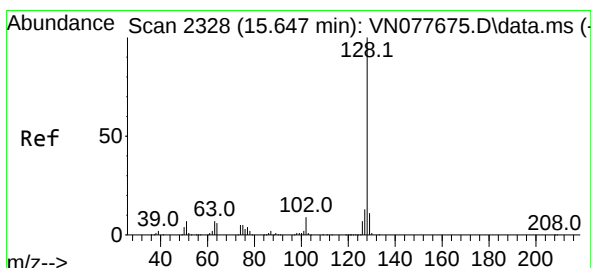
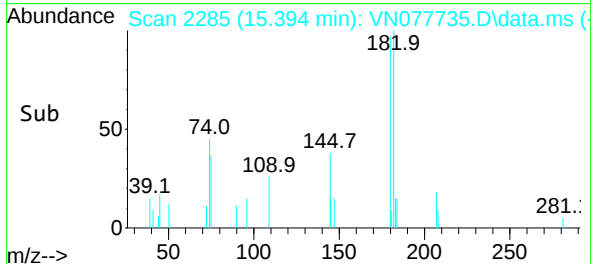
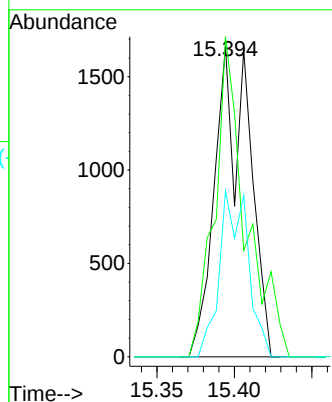
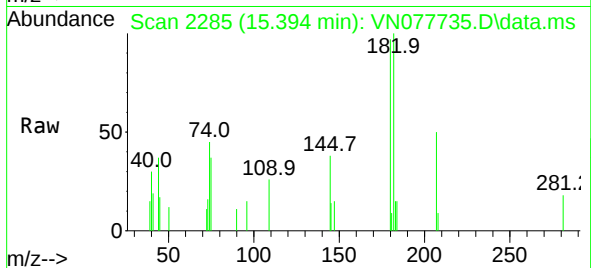
Tgt Ion:180 Resp: 2524

Ion Ratio Lower Upper

180 100

182 94.6 46.1 138.2

145 44.8 16.6 49.8



#95

Naphthalene

Concen: 0.753 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. 0.000 min

Lab File: VN077735.D

Acq: 18 May 2023 14:45

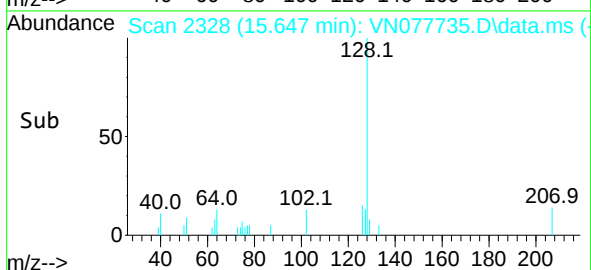
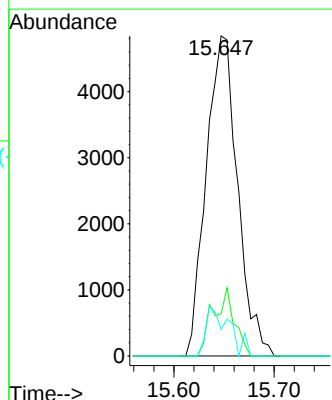
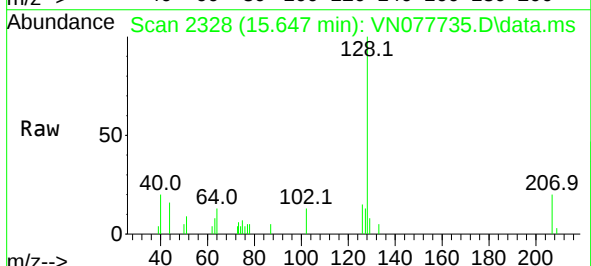
Tgt Ion:128 Resp: 10526

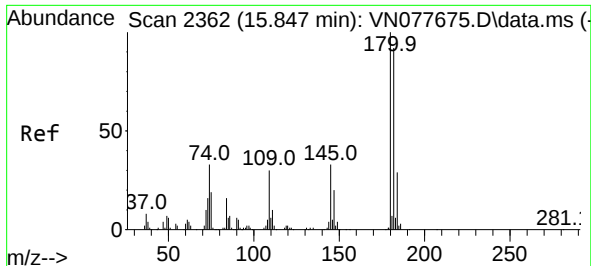
Ion Ratio Lower Upper

128 100

127 14.6 10.0 15.0

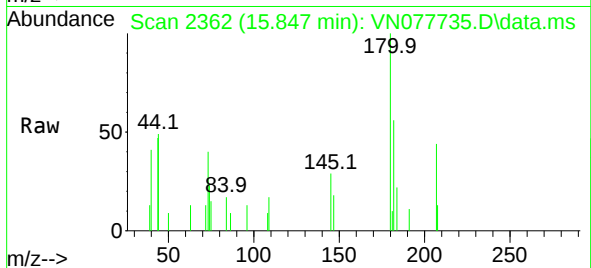
129 11.5 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.872 ug/l
 RT: 15.847 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN077735.D
 Acq: 18 May 2023 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-01-051723



Tgt Ion:	180	Resp:	3465
Ion	Ratio	Lower	Upper
180	100		
182	85.5	46.2	138.6
145	30.0	17.5	52.6

