

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053023\
 Data File : VN077963.D
 Acq On : 30 May 2023 12:39
 Operator : JC\MD
 Sample : 02898-02 400X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW36BR-20230522DL

Quant Time: May 31 02:05:55 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)

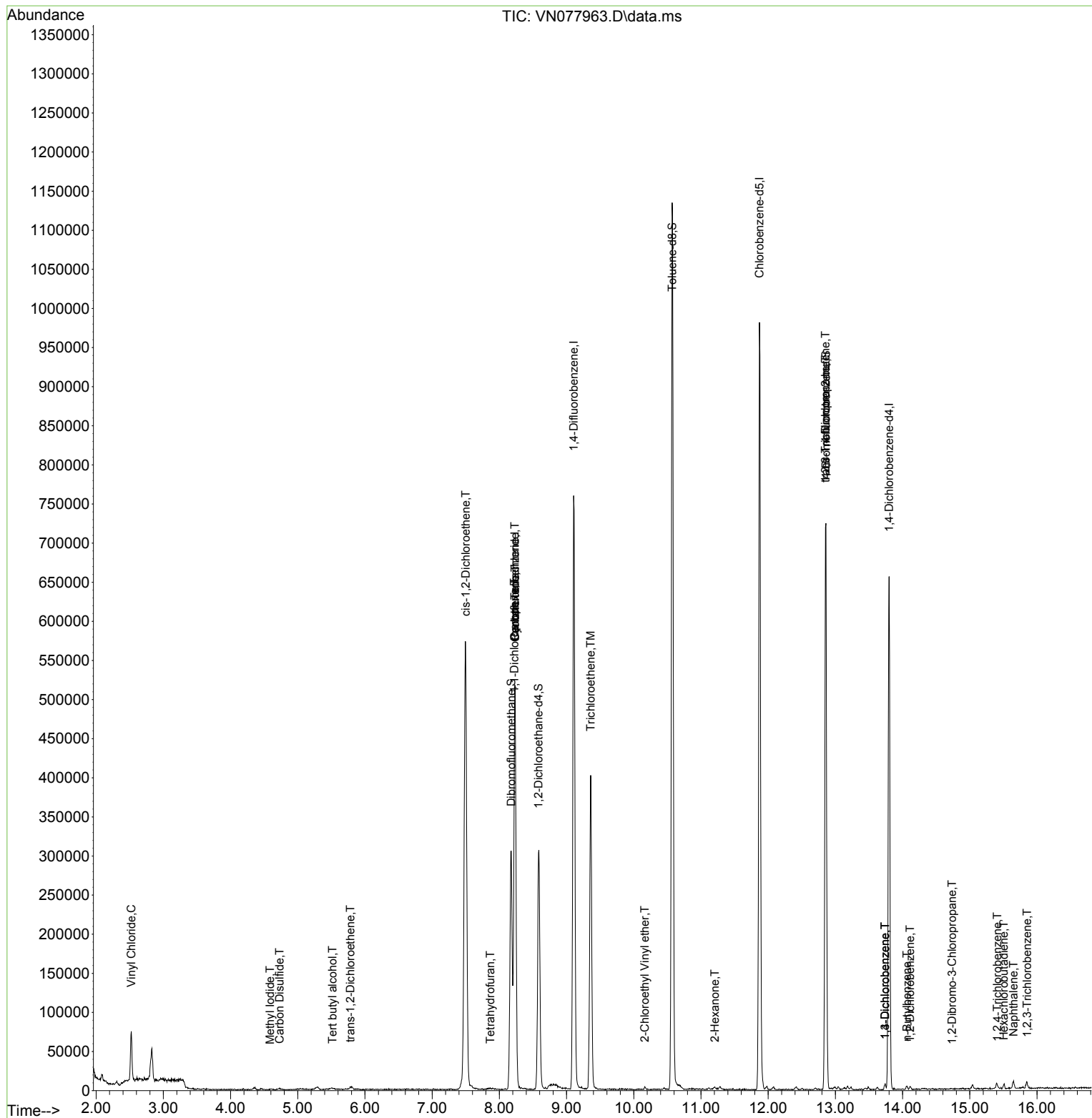
Internal Standards						
1) Pentafluorobenzene	8.230	168	381417	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	672343	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	590334	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	182085	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	257073	45.045	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.100%		
35) Dibromofluoromethane	8.177	113	221964	50.627	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.260%		
50) Toluene-d8	10.571	98	837041	49.601	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.200%		
62) 4-Bromofluorobenzene	12.859	95	269357	45.194	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	90.380%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	894	Below Cal	#	34
4) Vinyl Chloride	2.524	62	60139	10.989	ug/l	96
10) Methyl Iodide	4.589	142	1113	0.221	ug/l #	65
11) Tert butyl alcohol	5.518	59	274	0.348	ug/l #	72
13) Acrolein	4.189	56	473	Below Cal	#	31
17) Carbon Disulfide	4.730	76	3126	0.289	ug/l #	75
20) Methylene Chloride	5.289	84	2554	Below Cal	#	83
21) trans-1,2-Dichloroethene	5.783	96	1038	0.230	ug/l #	57
27) cis-1,2-Dichloroethene	7.500	96	353068	65.344	ug/l	98
29) Tetrahydrofuran	7.865	42	1175	0.639	ug/l #	36
31) Cyclohexane	8.235	56	8681	1.119	ug/l #	19
36) 1,1-Dichloropropene	8.224	75	32291	5.035	ug/l #	50
38) Carbon Tetrachloride	8.230	117	42356	6.541	ug/l #	18
44) Trichloroethene	9.359	130	139642	29.143	ug/l	96
58) 2-Chloroethyl Vinyl ether	10.165	63	1480	0.425	ug/l	93
59) 2-Hexanone	11.206	43	1975	0.481	ug/l	87
76) 1,2,3-Trichloropropane	12.853	75	141684	31.071	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	141684	99.318	ug/l #	15
87) 1,3-Dichlorobenzene	13.741	146	1674	0.253	ug/l	76
88) 1,4-Dichlorobenzene	13.741	146	1674	0.255	ug/l	78
89) n-Butylbenzene	14.065	91	3135	0.261	ug/l #	83
91) 1,2-Dichlorobenzene	14.112	146	1980	0.320	ug/l	94
92) 1,2-Dibromo-3-Chloropr...	14.735	75	194	0.208	ug/l	63
93) 1,2,4-Trichlorobenzene	15.411	180	2198	0.608	ug/l #	14
94) Hexachlorobutadiene	15.506	225	1115	0.743	ug/l #	32
95) Naphthalene	15.653	128	8445	0.678	ug/l	98
96) 1,2,3-Trichlorobenzene	15.853	180	2359	0.666	ug/l #	71

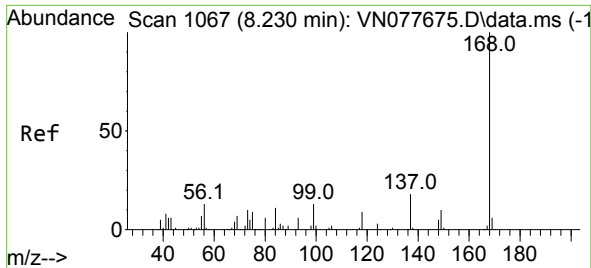
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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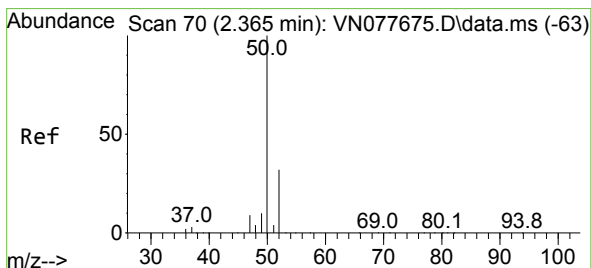
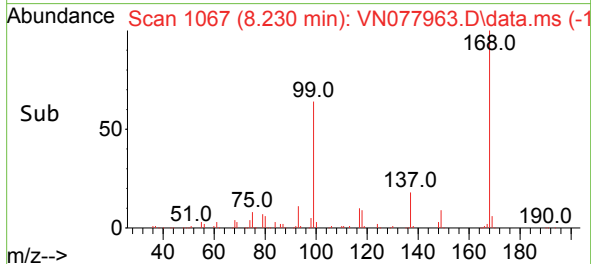
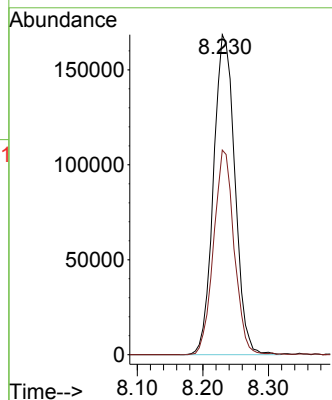
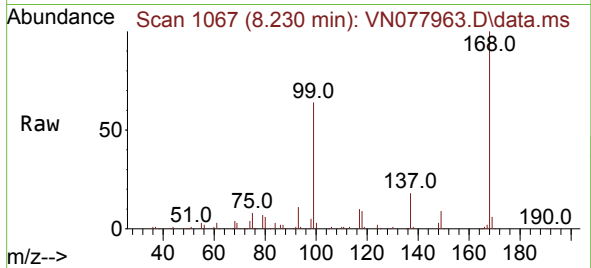




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

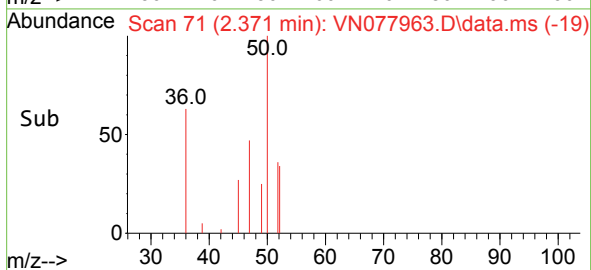
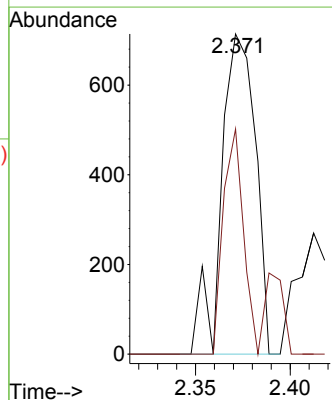
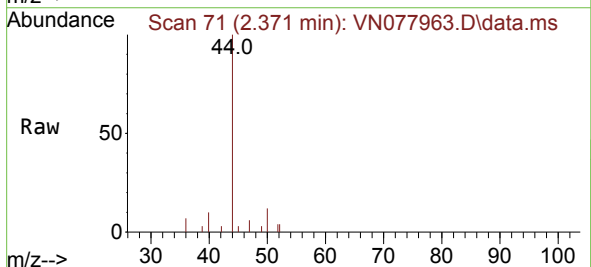
Instrument :
MSVOA_N
ClientSampleId :
MW36BR-20230522DL

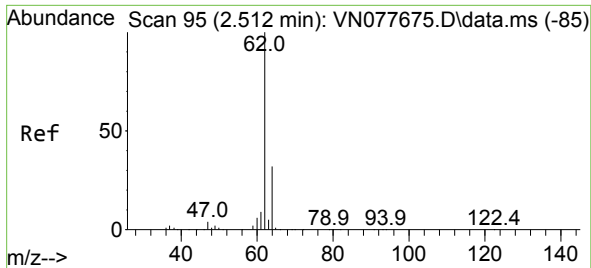
Tgt Ion:168 Resp: 381417
Ion Ratio Lower Upper
168 100
99 63.9 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

Tgt Ion: 50 Resp: 894
Ion Ratio Lower Upper
50 100
52 70.3 26.5 39.7#

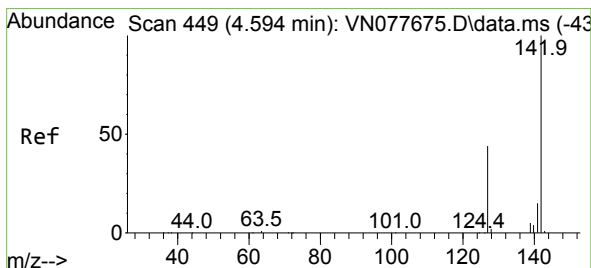
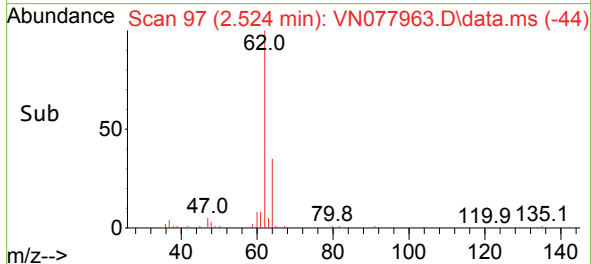
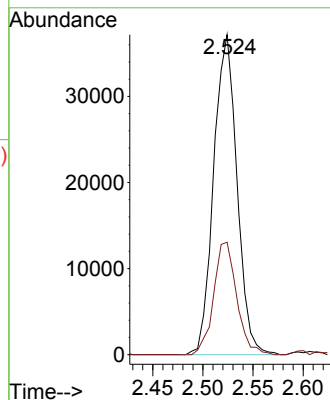
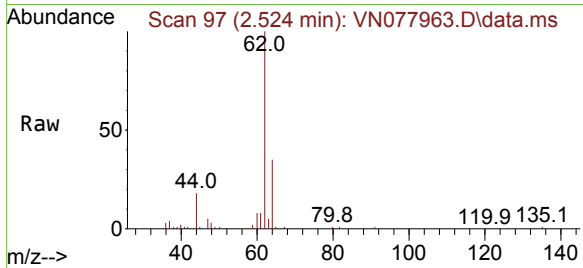




#4
 Vinyl Chloride
 Concen: 10.989 ug/l
 RT: 2.524 min Scan# 91
 Delta R.T. 0.012 min
 Lab File: VN077963.D
 Acq: 30 May 2023 12:39

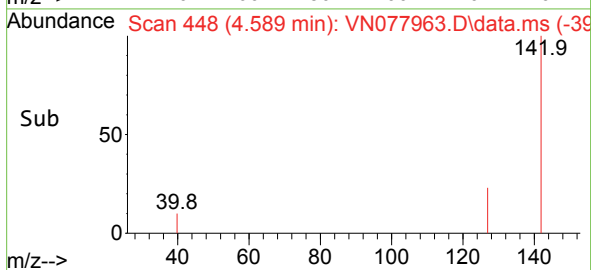
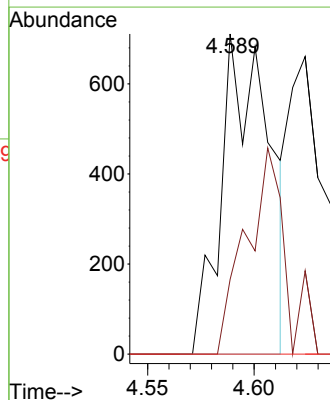
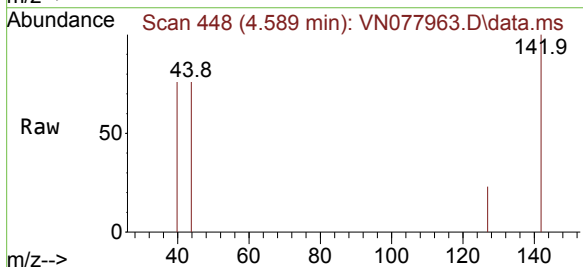
Instrument :
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 ClientSampleId :
 MW36BR-20230522DL

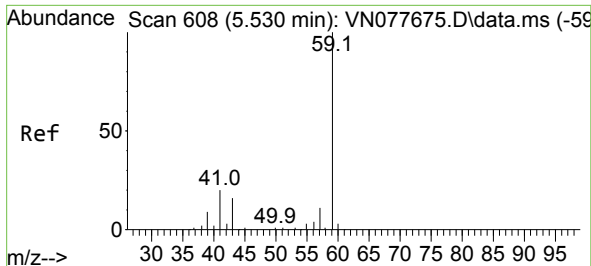
Tgt Ion: 62 Resp: 60139
 Ion Ratio Lower Upper
 62 100
 64 35.1 26.2 39.2



#10
 Methyl Iodide
 Concen: 0.221 ug/l
 RT: 4.589 min Scan# 448
 Delta R.T. -0.005 min
 Lab File: VN077963.D
 Acq: 30 May 2023 12:39

Tgt Ion: 142 Resp: 1113
 Ion Ratio Lower Upper
 142 100
 127 23.3 37.6 56.4#
 141 0.0 11.4 17.0#

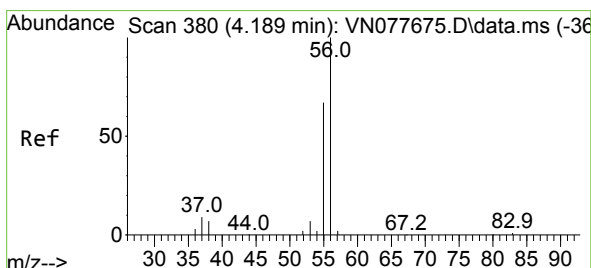
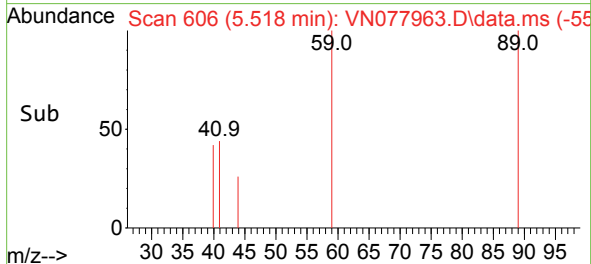
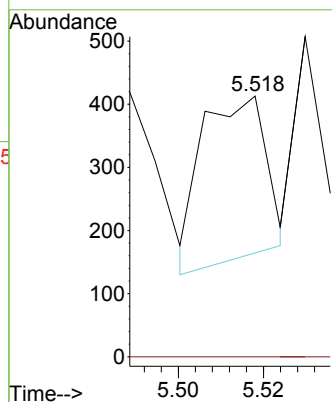
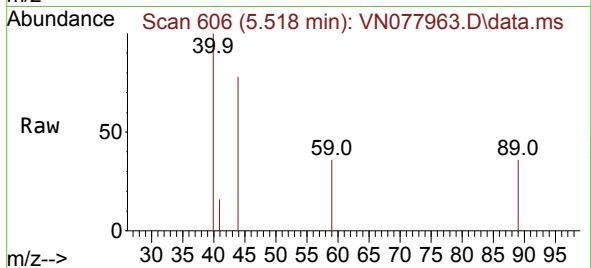




#11
Tert butyl alcohol
Concen: 0.348 ug/l
RT: 5.518 min Scan# 608
Delta R.T. -0.012 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

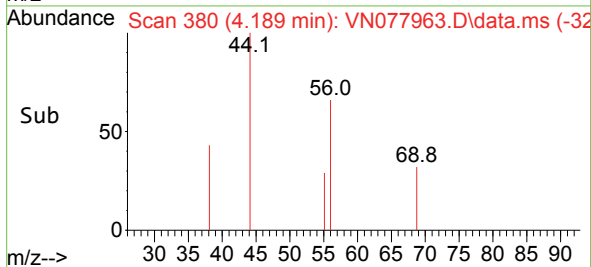
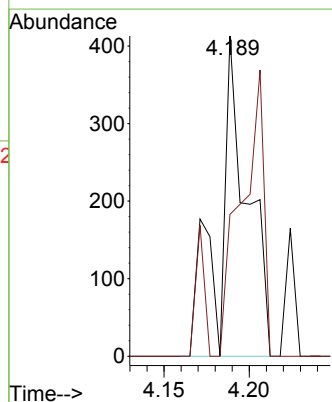
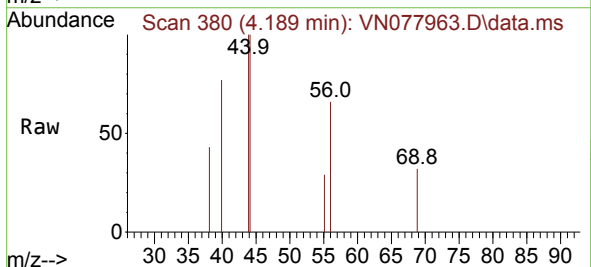
Instrument :
MSVOA_N
ClientSampleId :
MW36BR-20230522DL

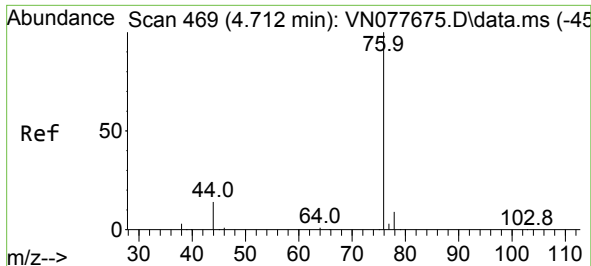
Tgt Ion: 59 Resp: 274
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: Below Cal
RT: 4.189 min Scan# 380
Delta R.T. -0.000 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

Tgt Ion: 56 Resp: 473
Ion Ratio Lower Upper
56 100
55 12.7 54.5 81.7#

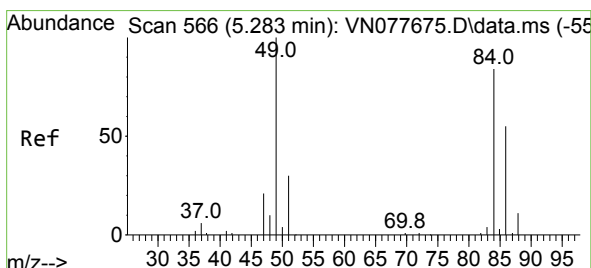
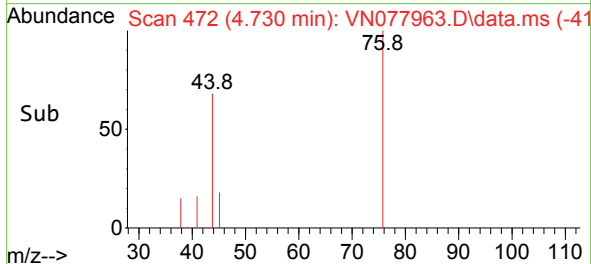
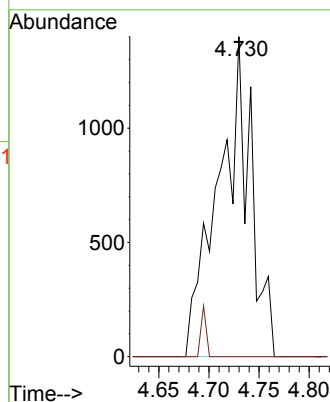
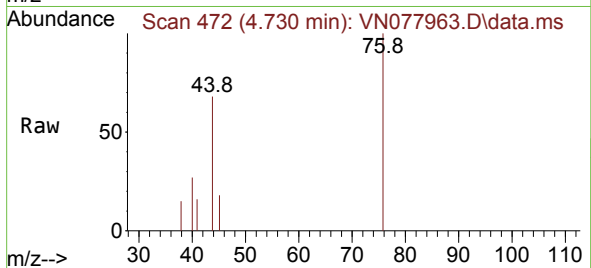




#17
Carbon Disulfide
Concen: 0.289 ug/l
RT: 4.730 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

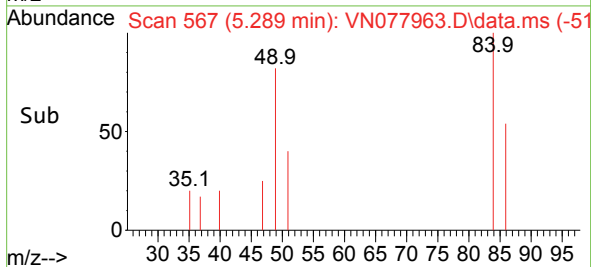
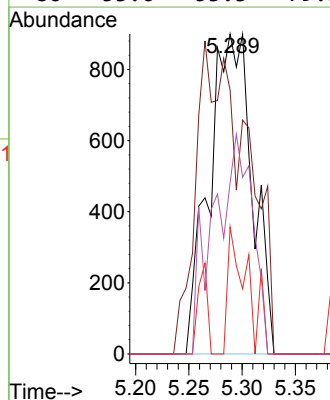
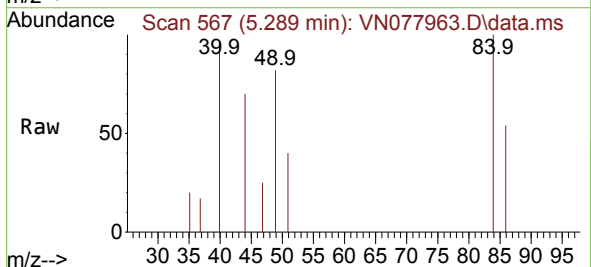
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MW36BR-20230522DL

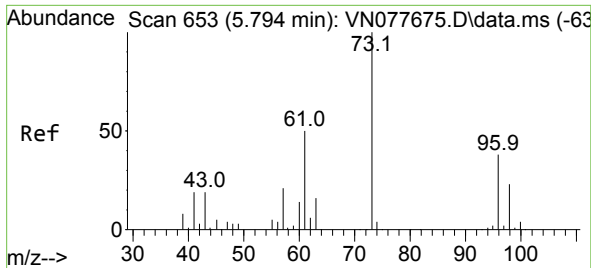
Tgt Ion: 76 Resp: 3126
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.289 min Scan# 567
Delta R.T. 0.006 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

Tgt Ion: 84 Resp: 2554
Ion Ratio Lower Upper
84 100
49 82.4 79.7 119.5
51 39.7 25.2 37.8#
86 53.6 53.3 79.9

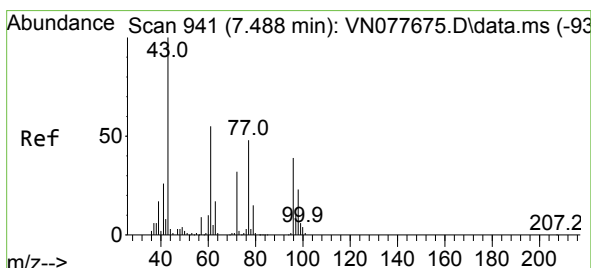
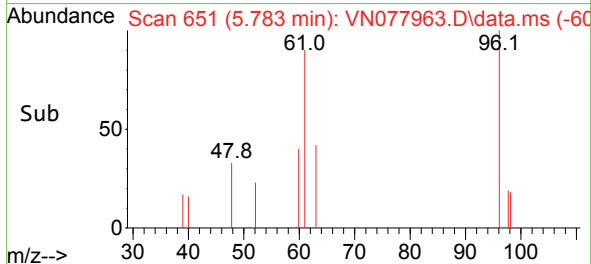
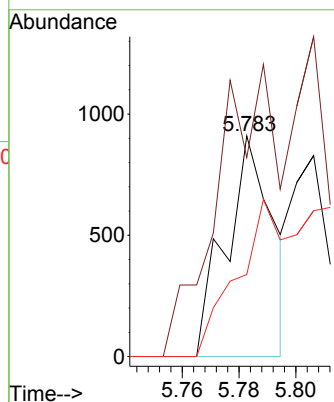
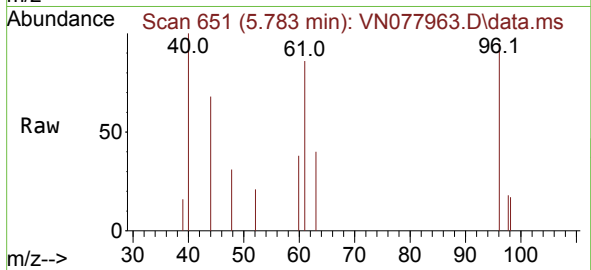




#21
trans-1,2-Dichloroethene
Concen: 0.230 ug/l
RT: 5.783 min Scan# 61
Delta R.T. -0.011 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

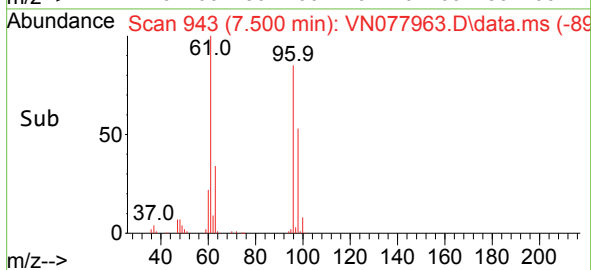
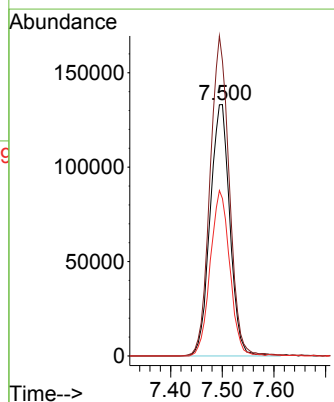
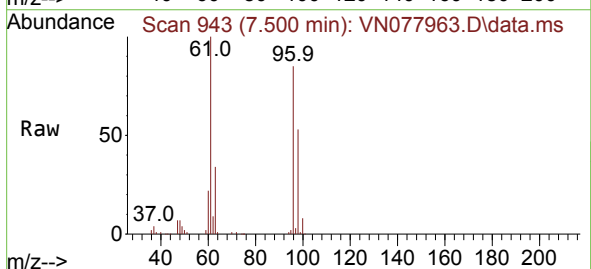
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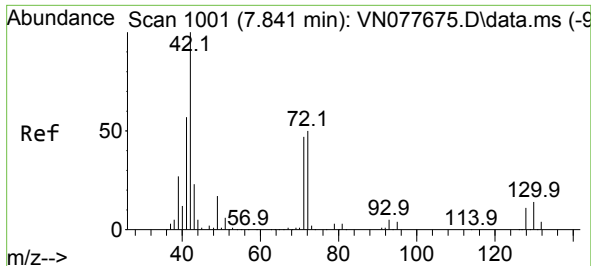
Tgt Ion: 96 Resp: 1038
Ion Ratio Lower Upper
96 100
61 57.8 90.1 135.1#
98 37.1 46.4 69.6#



#27
cis-1,2-Dichloroethene
Concen: 65.344 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.012 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

Tgt Ion: 96 Resp: 353068
Ion Ratio Lower Upper
96 100
61 124.1 0.0 255.2
98 64.9 0.0 128.8

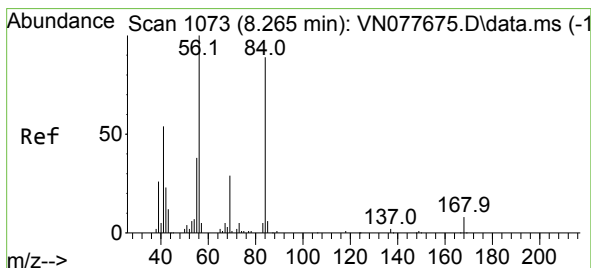
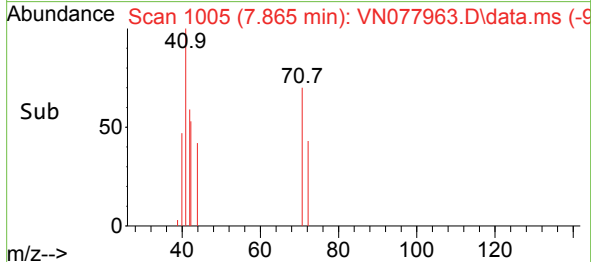
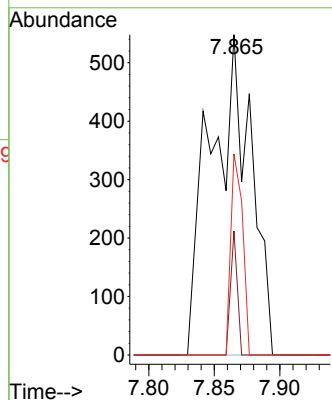
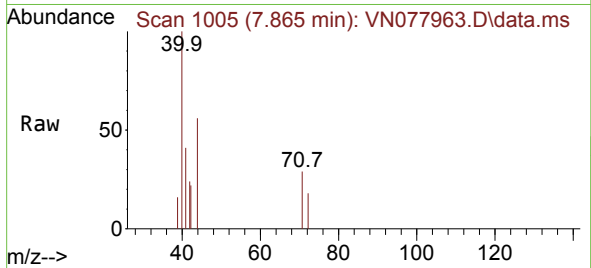




#29
Tetrahydrofuran
Concen: 0.639 ug/l
RT: 7.865 min Scan# 1005
Delta R.T. 0.024 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

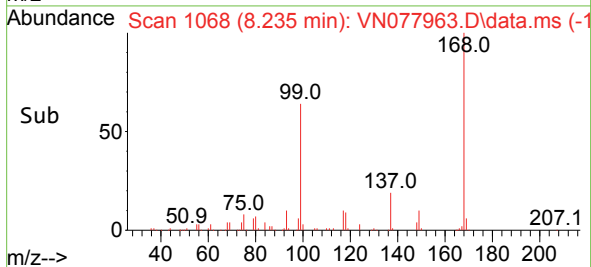
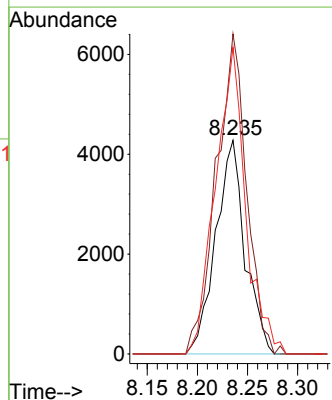
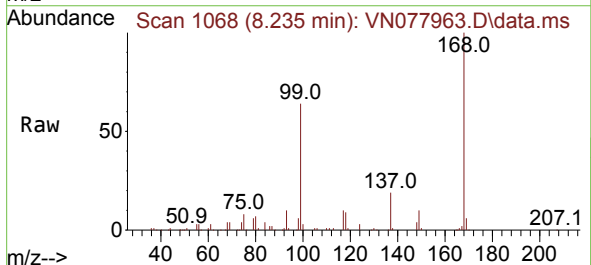
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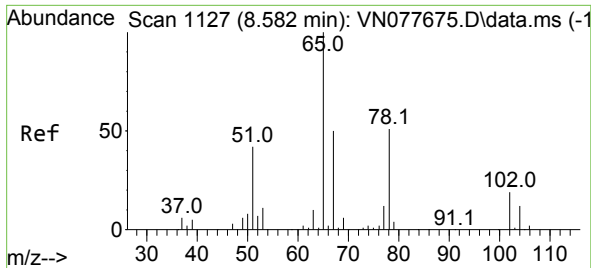
Tgt Ion: 42 Resp: 1175
Ion Ratio Lower Upper
42 100
72 6.4 49.8 74.6#
71 18.2 47.4 71.2#



#31
Cyclohexane
Concen: 1.119 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.030 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

Tgt Ion: 56 Resp: 8681
Ion Ratio Lower Upper
56 100
69 149.8 26.8 40.2#
84 143.6 81.8 122.6#

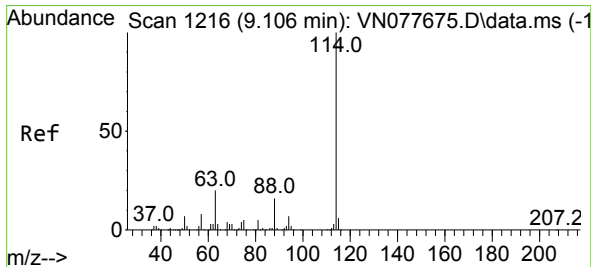
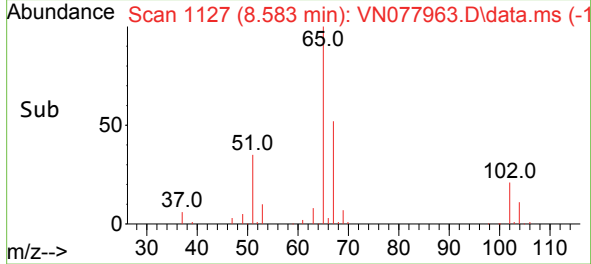
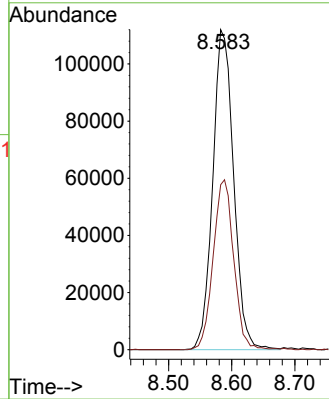
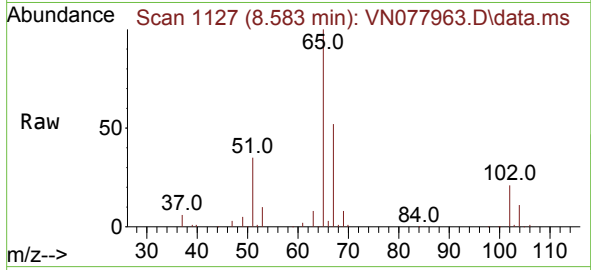




#33
 1,2-Dichloroethane-d4
 Concen: 45.045 ug/l
 RT: 8.583 min Scan# 1127
 Delta R.T. 0.001 min
 Lab File: VN077963.D
 Acq: 30 May 2023 12:39

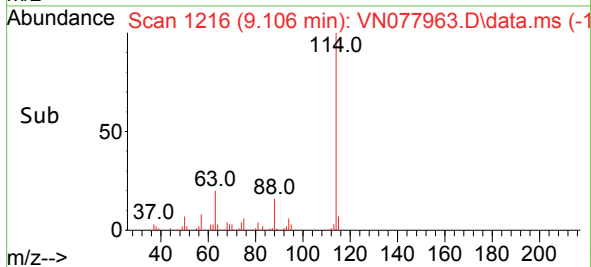
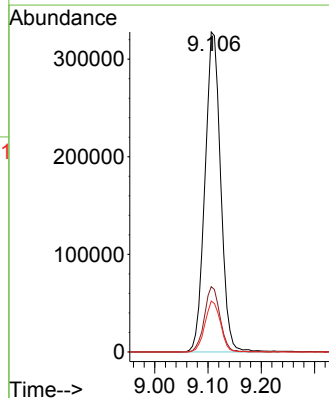
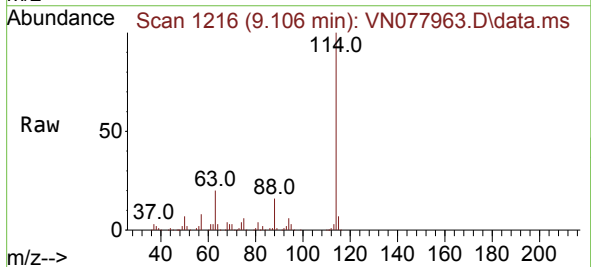
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 MW36BR-20230522DL

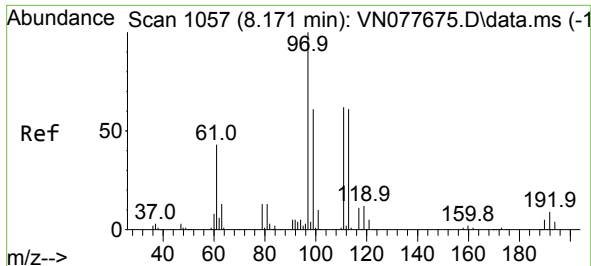
Tgt Ion: 65 Resp: 257073
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.106 min Scan# 1216
 Delta R.T. 0.000 min
 Lab File: VN077963.D
 Acq: 30 May 2023 12:39

Tgt Ion: 114 Resp: 672343
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 36.4
 88 15.9 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.627 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN077963.D

Acq: 30 May 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

MW36BR-20230522DL

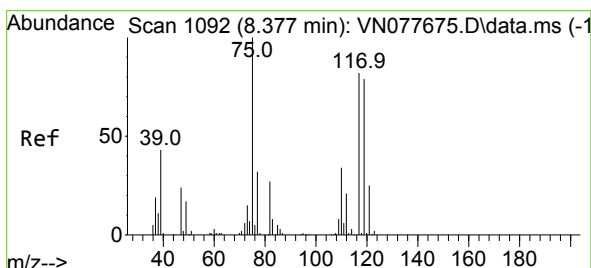
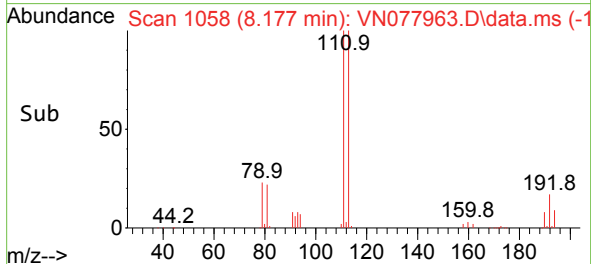
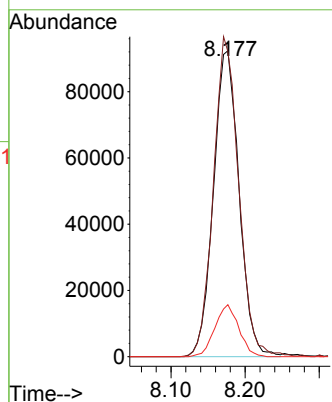
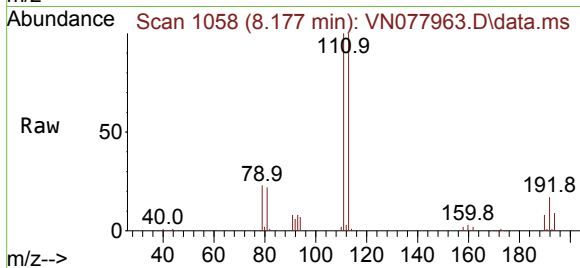
Tgt Ion:113 Resp: 221964

Ion Ratio Lower Upper

113 100

111 103.0 82.6 123.8

192 15.9 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.035 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.153 min

Lab File: VN077963.D

Acq: 30 May 2023 12:39

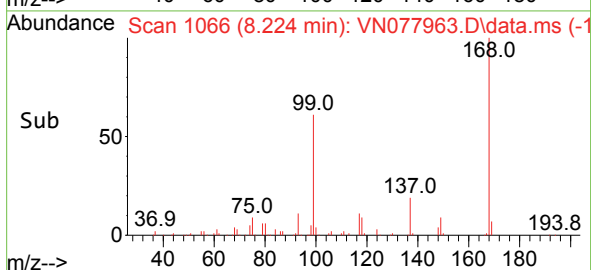
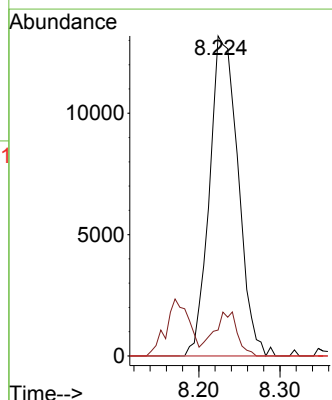
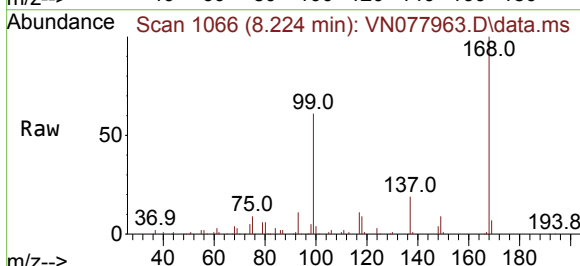
Tgt Ion: 75 Resp: 32291

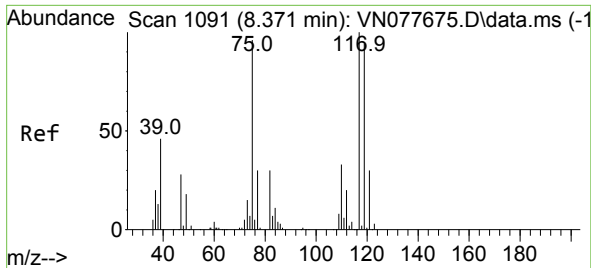
Ion Ratio Lower Upper

75 100

110 11.4 19.1 57.3#

77 0.0 25.0 37.4#

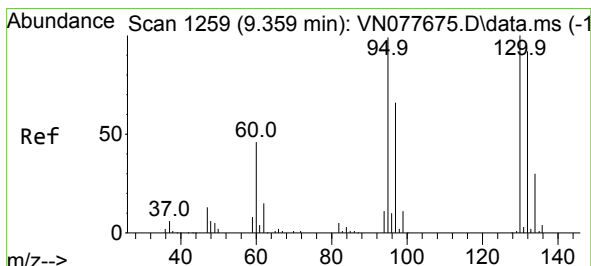
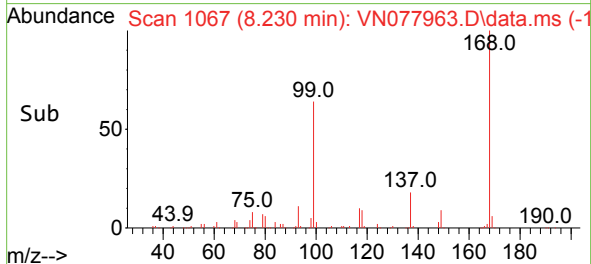
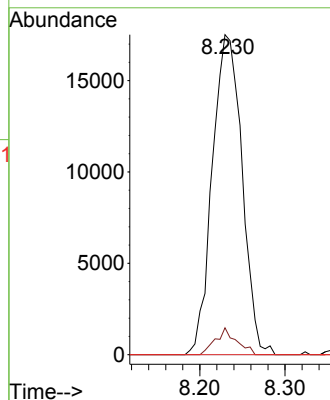
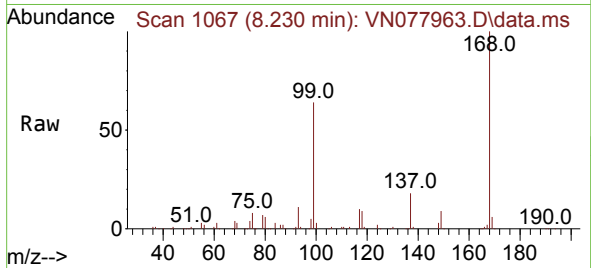




#38
Carbon Tetrachloride
Concen: 6.541 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

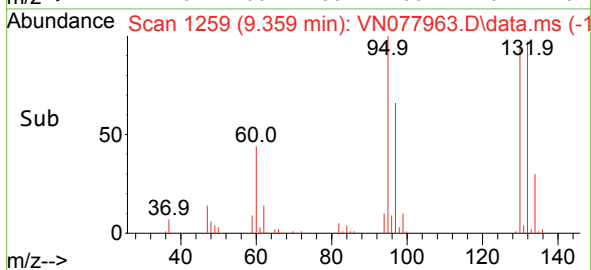
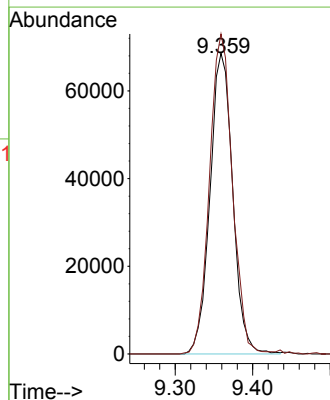
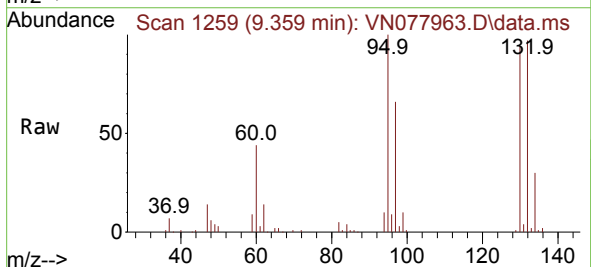
Instrument :
MSVOA_N
ClientSampleId :
MW36BR-20230522DL

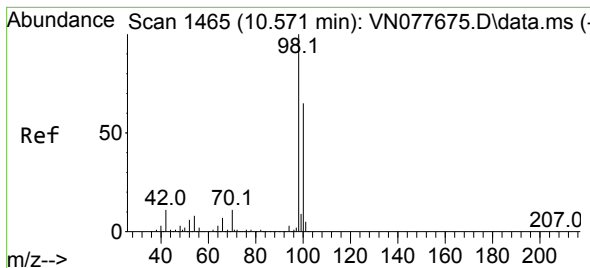
Tgt Ion:117 Resp: 42356
Ion Ratio Lower Upper
117 100
119 8.4 77.3 115.9#
121 0.0 23.3 34.9#



#44
Trichloroethene
Concen: 29.143 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

Tgt Ion:130 Resp: 139642
Ion Ratio Lower Upper
130 100
95 106.5 0.0 204.6





#50

Toluene-d8

Concen: 49.601 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN077963.D

Acq: 30 May 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

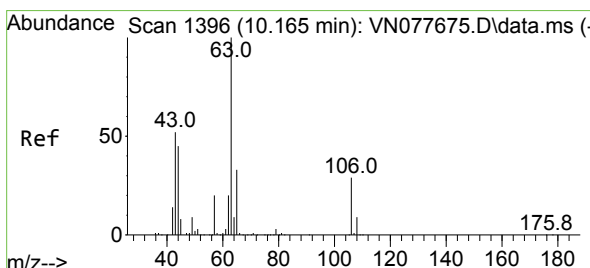
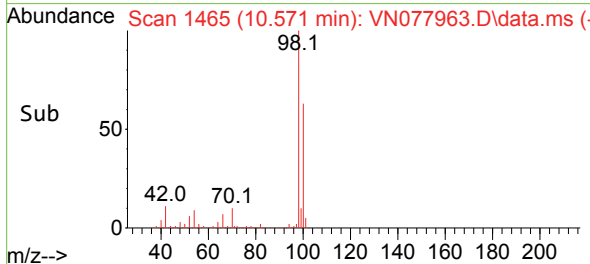
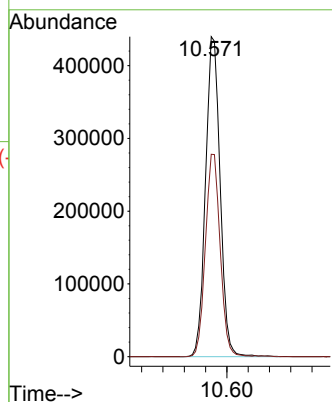
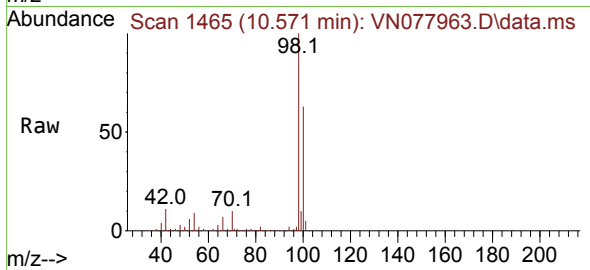
MW36BR-20230522DL

Tgt Ion: 98 Resp: 837041

Ion Ratio Lower Upper

98 100

100 64.0 52.0 78.0



#58

2-Chloroethyl Vinyl ether

Concen: 0.425 ug/l

RT: 10.165 min Scan# 1396

Delta R.T. -0.000 min

Lab File: VN077963.D

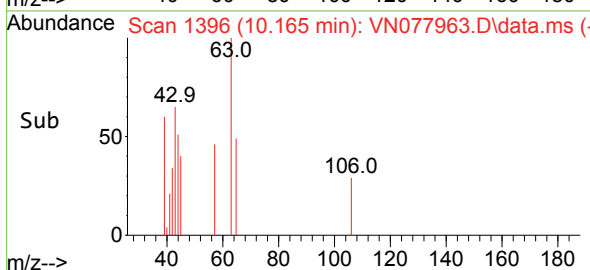
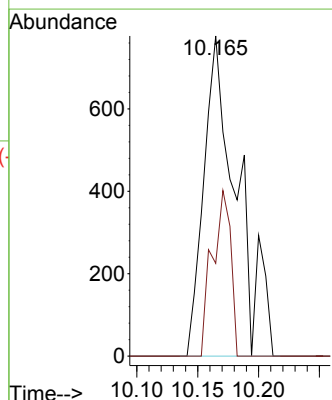
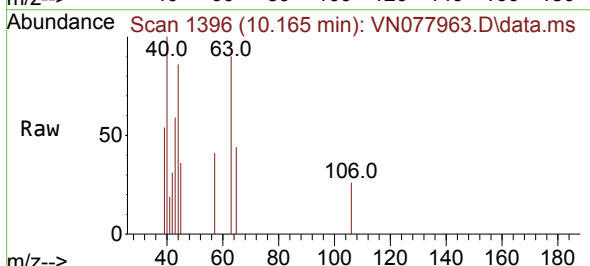
Acq: 30 May 2023 12:39

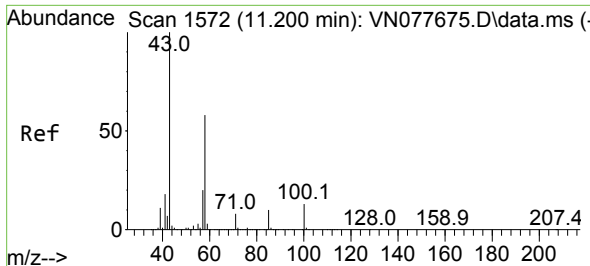
Tgt Ion: 63 Resp: 1480

Ion Ratio Lower Upper

63 100

106 28.6 26.2 39.4

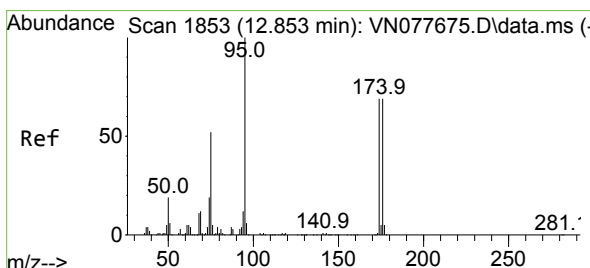
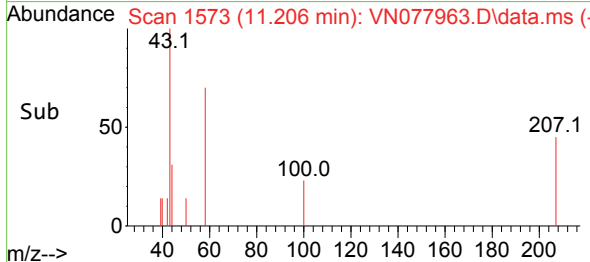
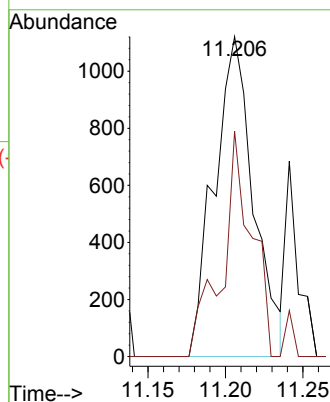
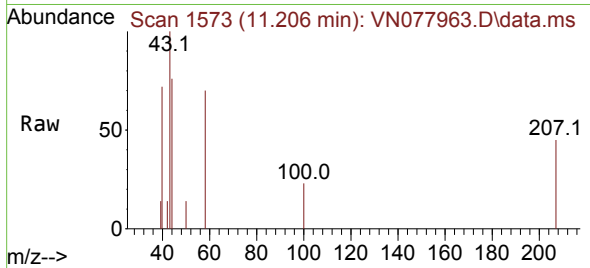




#59
2-Hexanone
Concen: 0.481 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

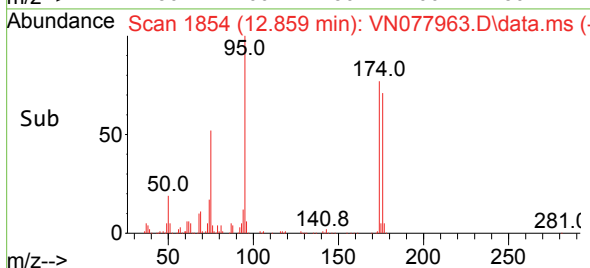
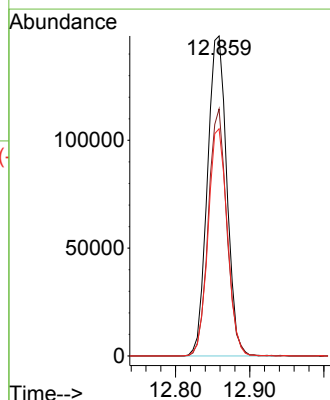
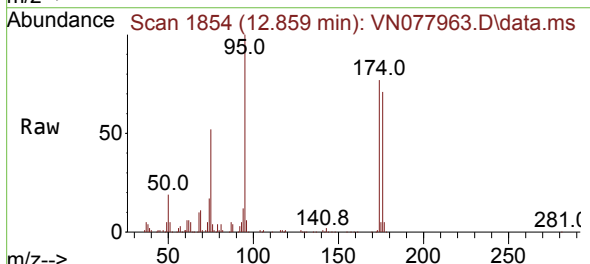
Instrument :
MSVOA_N
ClientSampleId :
MW36BR-20230522DL

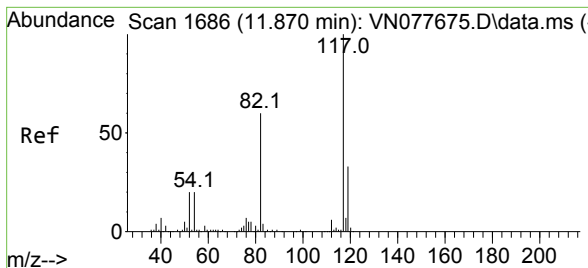
Tgt Ion: 43 Resp: 1975
Ion Ratio Lower Upper
43 100
58 53.1 31.7 95.1



#62
4-Bromofluorobenzene
Concen: 45.194 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

Tgt Ion: 95 Resp: 269357
Ion Ratio Lower Upper
95 100
174 73.2 0.0 143.8
176 70.4 0.0 135.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN077963.D

Acq: 30 May 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

MW36BR-20230522DL

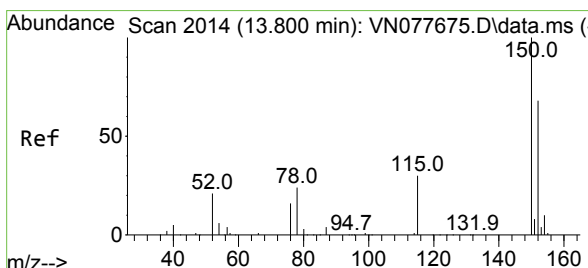
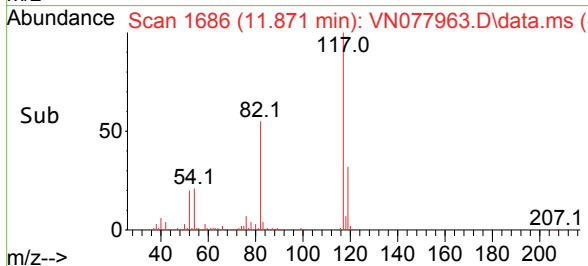
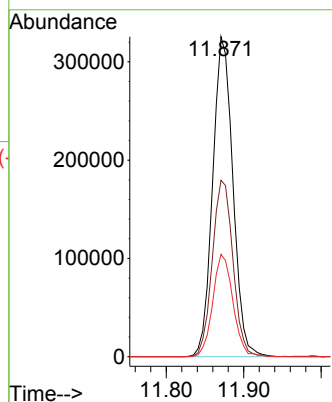
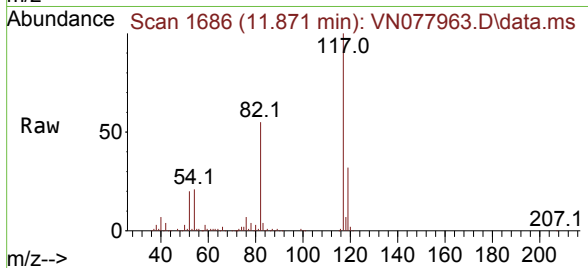
Tgt Ion:117 Resp: 590334

Ion Ratio Lower Upper

117 100

82 55.1 44.0 66.0

119 32.0 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: VN077963.D

Acq: 30 May 2023 12:39

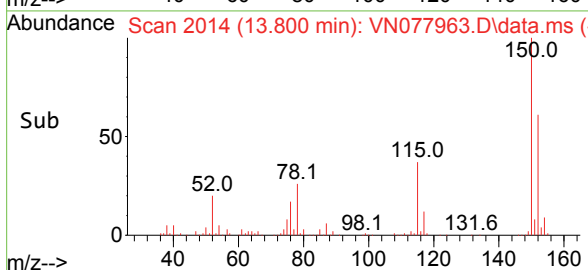
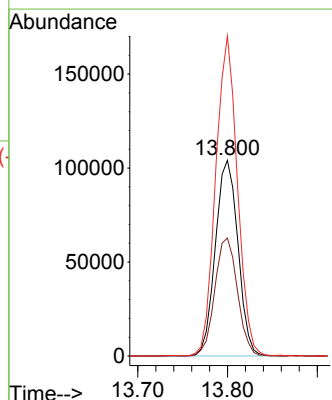
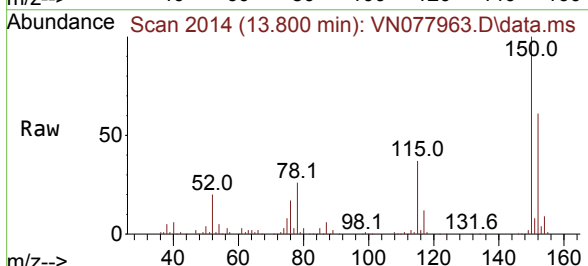
Tgt Ion:152 Resp: 182085

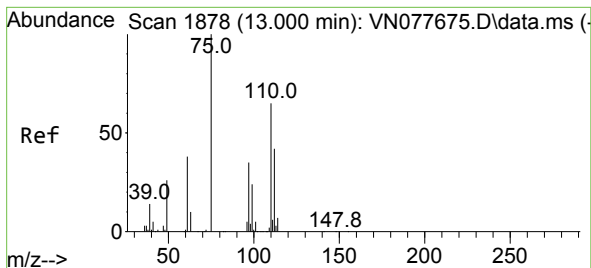
Ion Ratio Lower Upper

152 100

115 60.4 32.3 96.8

150 157.2 0.0 355.8





#76

1,2,3-Trichloropropane

Concen: 31.071 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN077963.D

Acq: 30 May 2023 12:39

Instrument :

MSVOA_N

ClientSampleId :

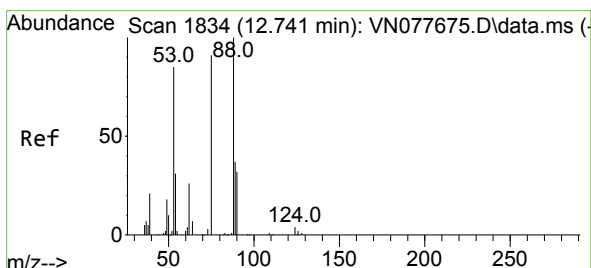
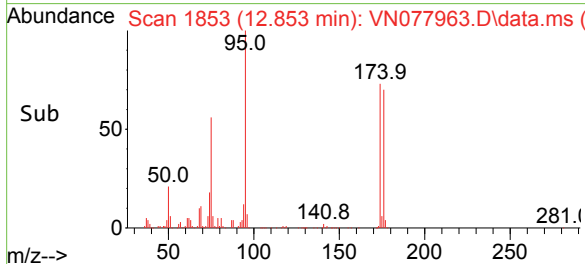
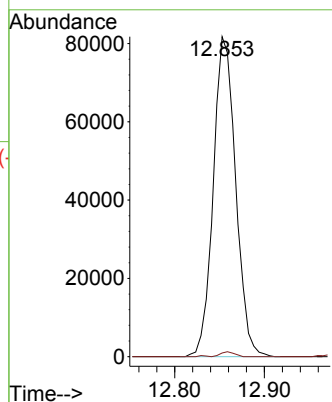
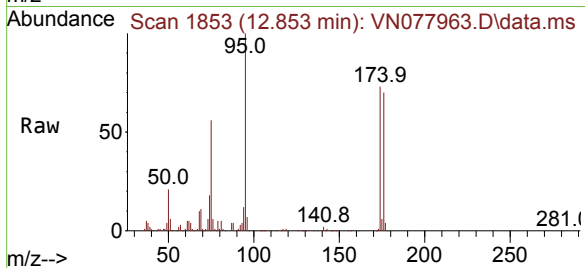
MW36BR-20230522DL

Tgt Ion: 75 Resp: 141684

Ion Ratio Lower Upper

75 100

77 1.0 84.5 253.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 99.318 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. 0.112 min

Lab File: VN077963.D

Acq: 30 May 2023 12:39

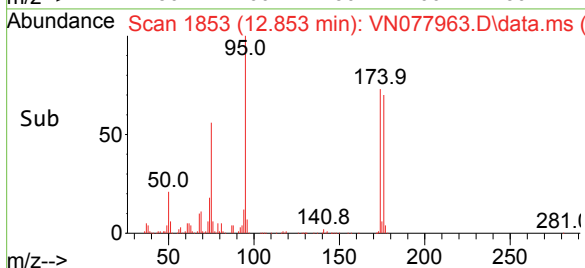
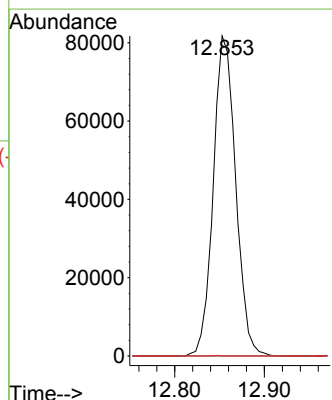
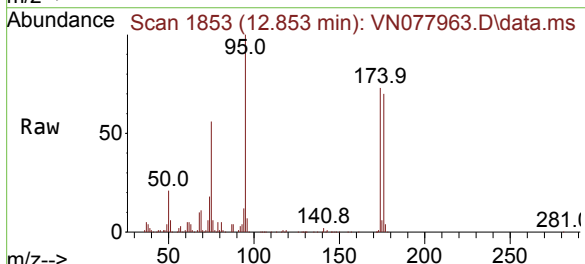
Tgt Ion: 75 Resp: 141684

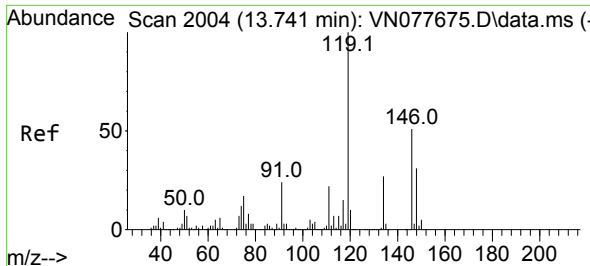
Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.2#

89 0.0 38.8 58.2#

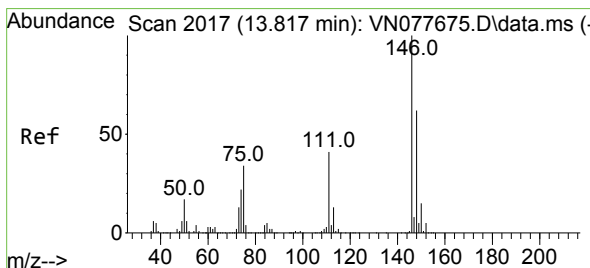
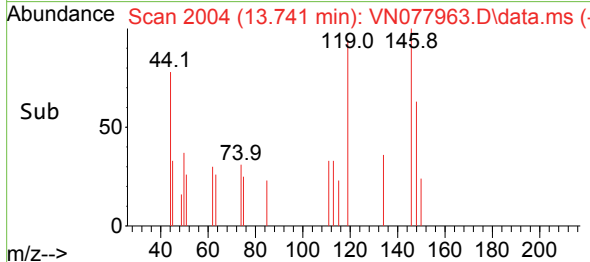
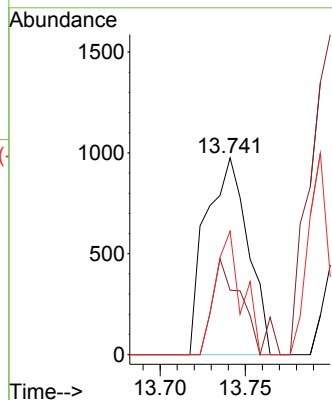
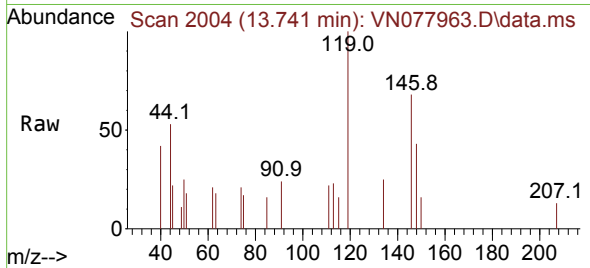




#87
1,3-Dichlorobenzene
Concen: 0.253 ug/l
RT: 13.741 min Scan# 2004
Delta R.T. 0.000 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

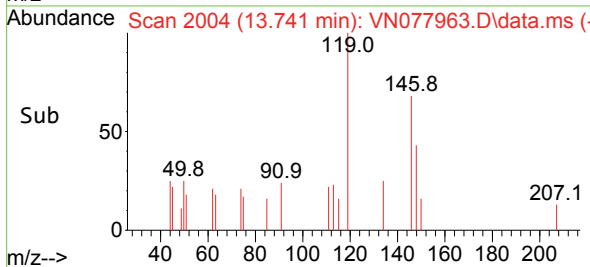
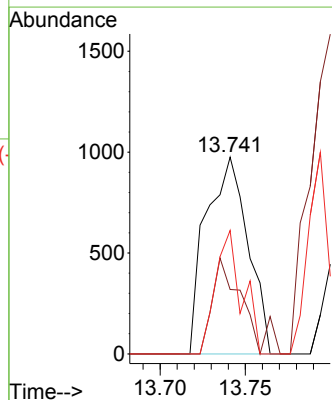
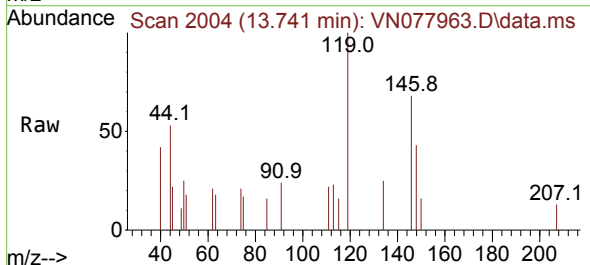
Instrument :
MSVOA_N
ClientSampleId :
MW36BR-20230522DL

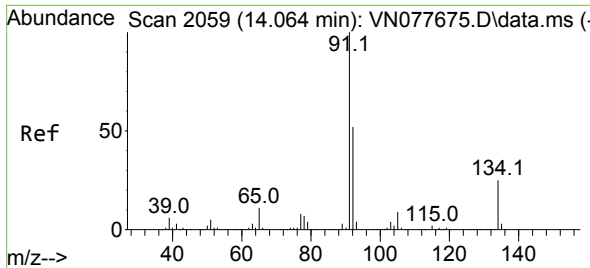
Tgt Ion:146 Resp: 1674
Ion Ratio Lower Upper
146 100
111 35.7 22.1 66.3
148 39.2 32.0 96.0



#88
1,4-Dichlorobenzene
Concen: 0.255 ug/l
RT: 13.741 min Scan# 2004
Delta R.T. -0.076 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

Tgt Ion:146 Resp: 1674
Ion Ratio Lower Upper
146 100
111 35.7 20.6 61.8
148 39.2 31.6 94.8

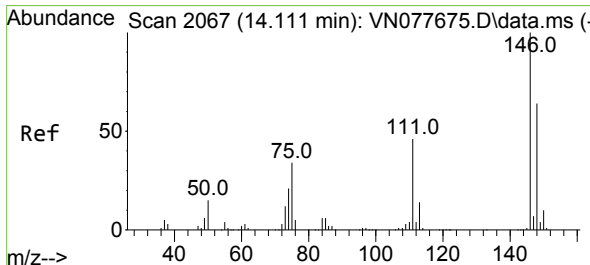
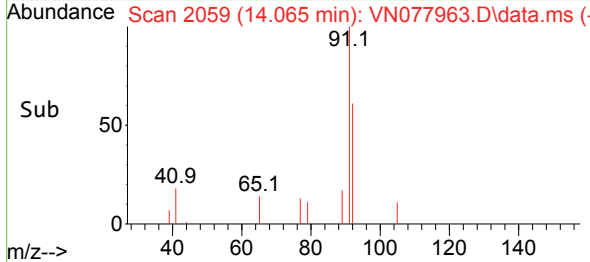
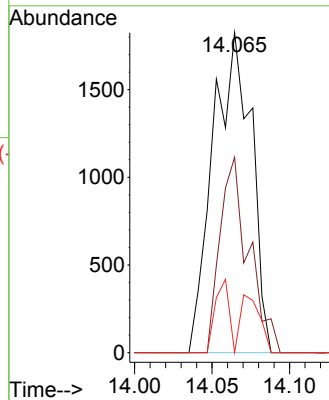
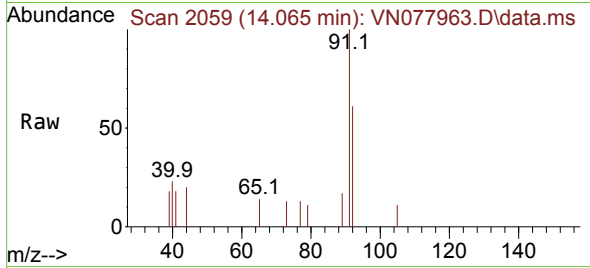




#89
n-Butylbenzene
Concen: 0.261 ug/l
RT: 14.065 min Scan# 2059
Delta R.T. 0.001 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

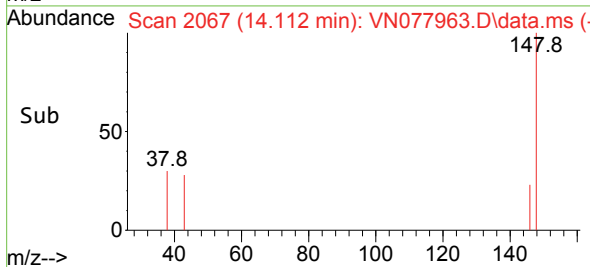
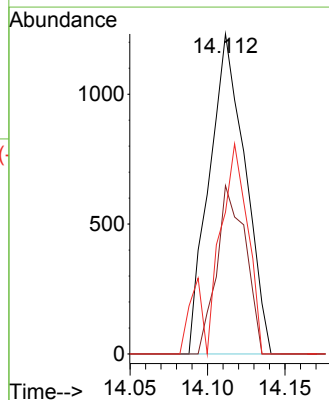
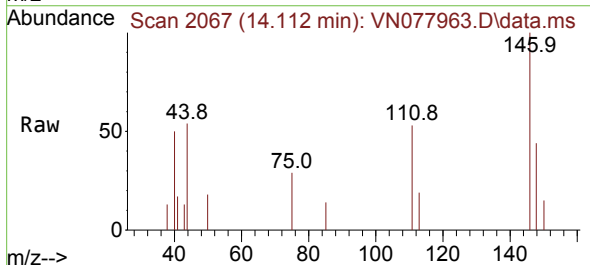
Instrument :
MSVOA_N
ClientSampleId :
MW36BR-20230522DL

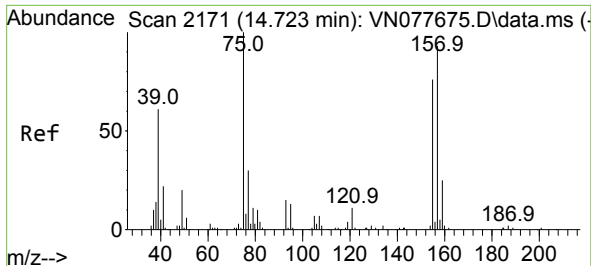
Tgt Ion: 91	Resp:	3135
Ion Ratio	Lower	Upper
91	100	
92	45.8	26.4 79.0
134	9.1	12.6 37.6



#91
1,2-Dichlorobenzene
Concen: 0.320 ug/l
RT: 14.112 min Scan# 2067
Delta R.T. 0.001 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

Tgt Ion: 146	Resp:	1980
Ion Ratio	Lower	Upper
146	100	
111	42.2	22.0 66.0
148	57.1	31.8 95.3

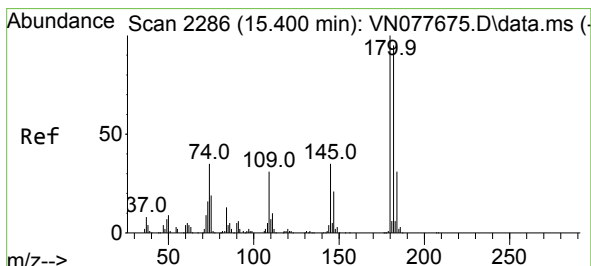
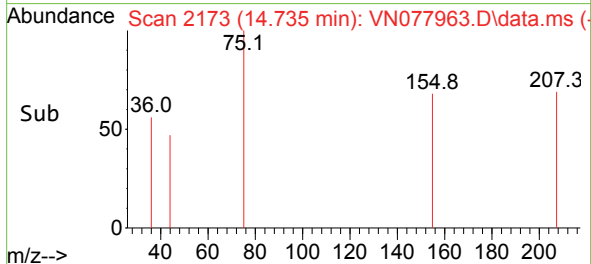
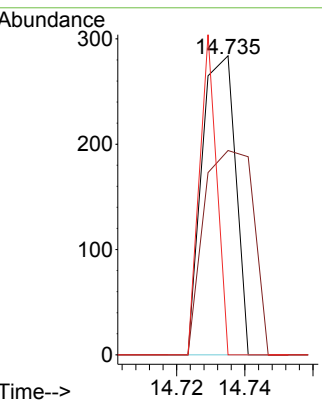
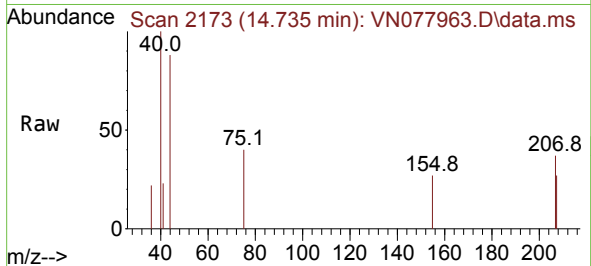




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.208 ug/l
 RT: 14.735 min Scan# 2173
 Delta R.T. 0.012 min
 Lab File: VN077963.D
 Acq: 30 May 2023 12:39

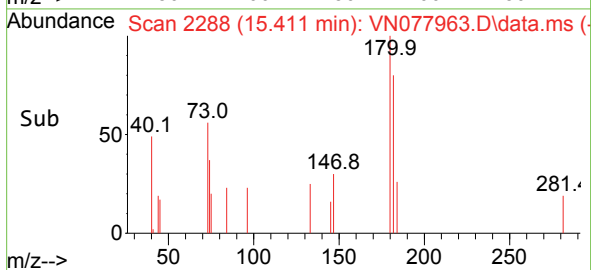
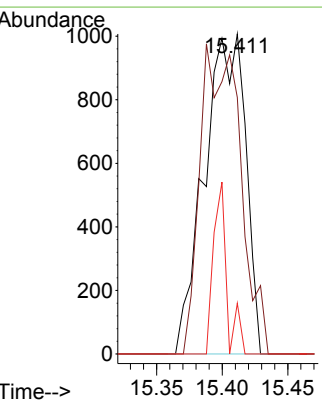
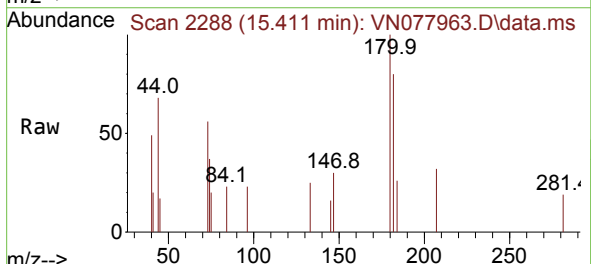
Instrument :
 MSVOA_N
 ClientSampleId :
 MW36BR-20230522DL

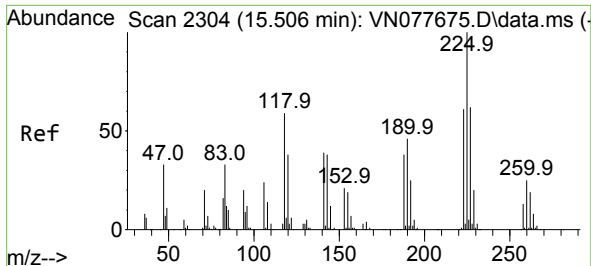
Tgt Ion: 75 Resp: 194
 Ion Ratio Lower Upper
 75 100
 155 101.0 39.1 117.2
 157 55.2 50.3 150.9



#93
 1,2,4-Trichlorobenzene
 Concen: 0.608 ug/l
 RT: 15.411 min Scan# 2288
 Delta R.T. 0.011 min
 Lab File: VN077963.D
 Acq: 30 May 2023 12:39

Tgt Ion: 180 Resp: 2198
 Ion Ratio Lower Upper
 180 100
 182 0.0 46.1 138.2#
 145 0.0 16.6 49.8#

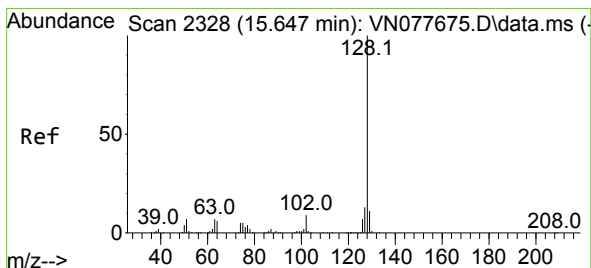
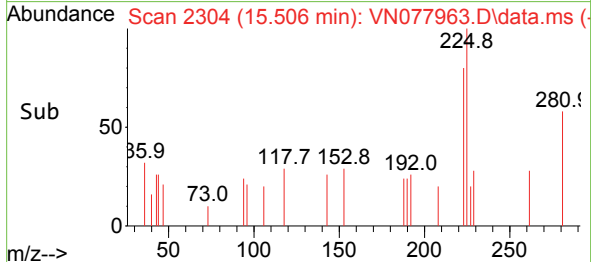
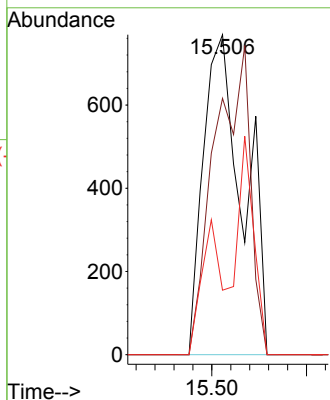
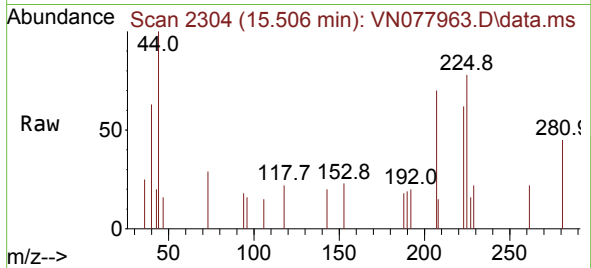




#94
Hexachlorobutadiene
Concen: 0.743 ug/l
RT: 15.506 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

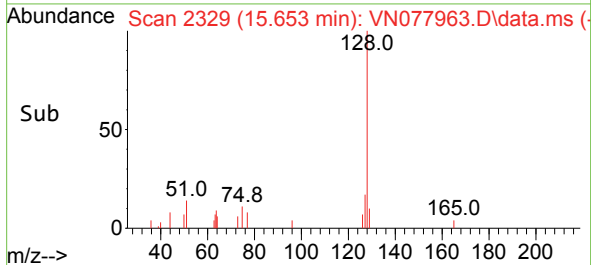
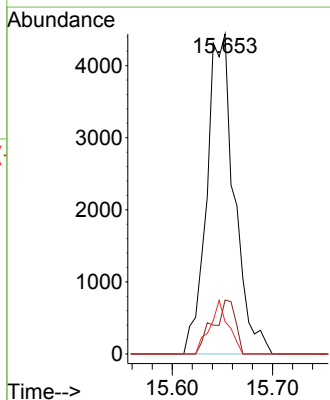
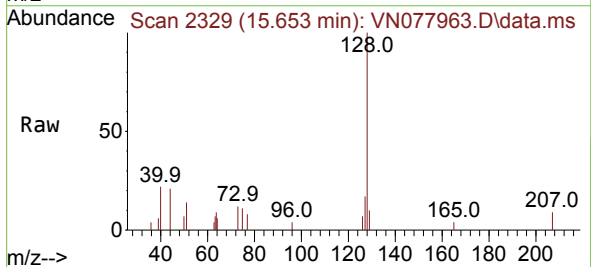
Instrument :
MSVOA_N
ClientSampleId :
MW36BR-20230522DL

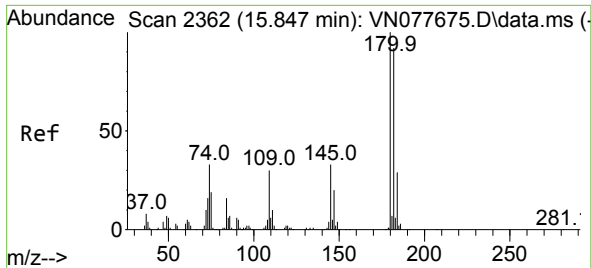
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	31.3	93.8#
227	20.5	31.9	95.9#



#95
Naphthalene
Concen: 0.678 ug/l
RT: 15.653 min Scan# 2329
Delta R.T. 0.006 min
Lab File: VN077963.D
Acq: 30 May 2023 12:39

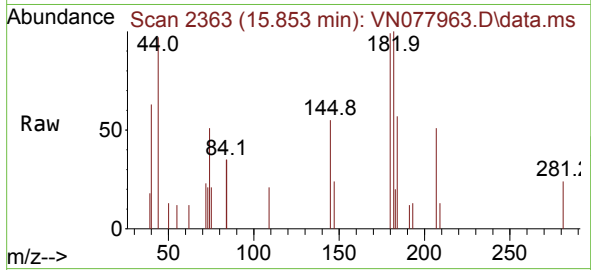
Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.0	15.0
129	11.3	8.7	13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.666 ug/l
 RT: 15.853 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN077963.D
 Acq: 30 May 2023 12:39

Instrument :
 MSVOA_N
 ClientSampleId :
 MW36BR-20230522DL



Tgt Ion:	180	Resp:	2359
Ion	Ratio	Lower	Upper
180	100		
182	119.3	46.2	138.6
145	54.1	17.5	52.6#

