

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN053123\
 Data File : VN077998.D
 Acq On : 31 May 2023 17:19
 Operator : JC\MD
 Sample : 02943-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB03-20230523

Quant Time: Jun 01 01:56:21 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)

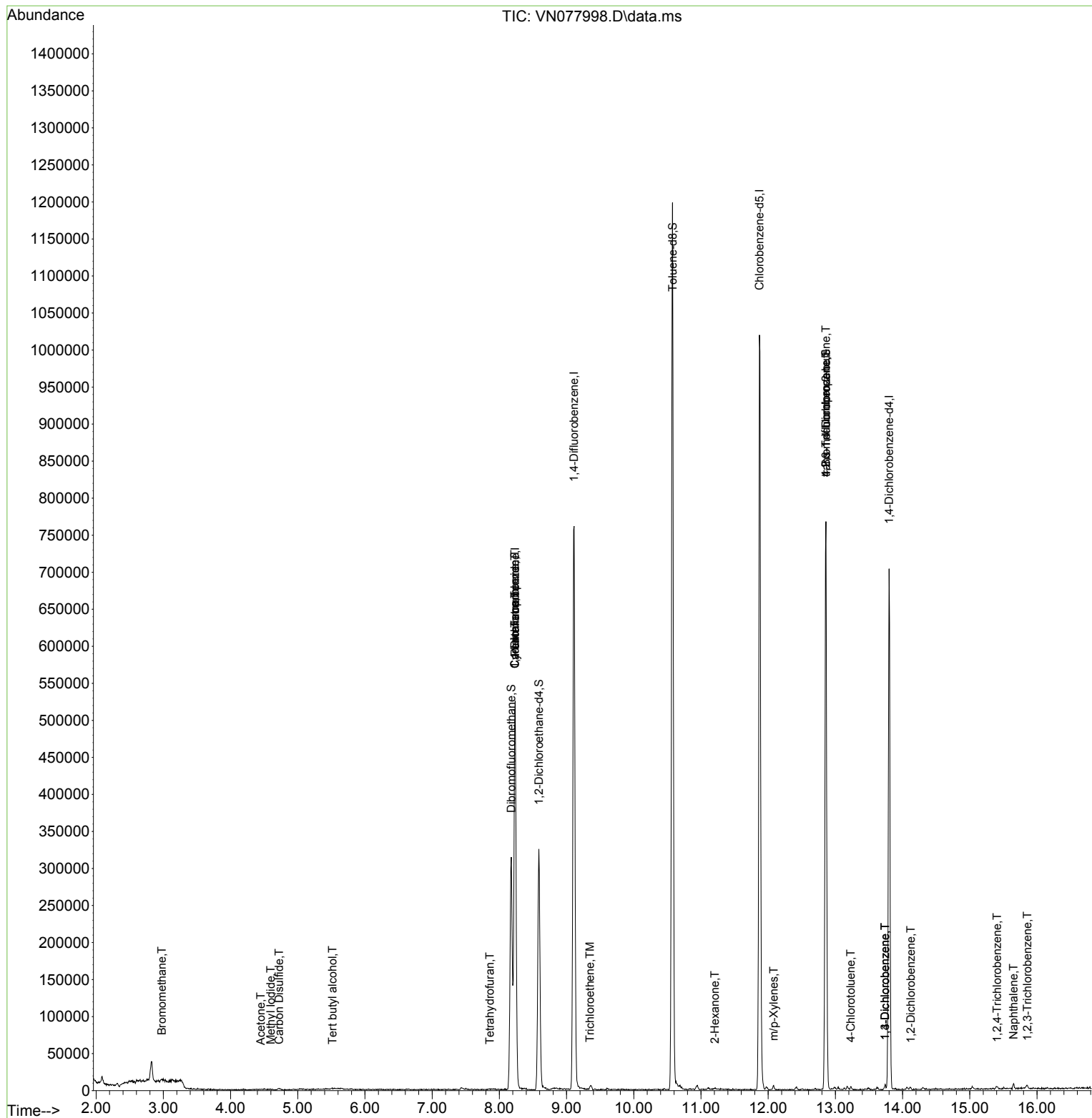
Internal Standards						
1) Pentafluorobenzene	8.235	168	380977	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	691261	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	611929	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	189695	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	265630	46.599	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.200%		
35) Dibromofluoromethane	8.177	113	227282	50.422	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.840%		
50) Toluene-d8	10.576	98	846325	48.779	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.560%		
62) 4-Bromofluorobenzene	12.859	95	270276	44.107	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	88.220%		
Target Compounds						Qvalue
3) Chloromethane	2.365	50	1382	Below Cal		96
5) Bromomethane	2.977	94	2680	0.663 ug/l		93
10) Methyl Iodide	4.600	142	1133	0.225 ug/l #		76
11) Tert butyl alcohol	5.518	59	416	0.529 ug/l #		72
13) Acrolein	4.200	56	647	Below Cal #		36
16) Acetone	4.447	43	677	0.377 ug/l #		40
17) Carbon Disulfide	4.724	76	4137	0.383 ug/l #		76
20) Methylene Chloride	5.277	84	62	Below Cal #		41
29) Tetrahydrofuran	7.859	42	650	0.354 ug/l #		20
31) Cyclohexane	8.230	56	9263	1.196 ug/l #		25
36) 1,1-Dichloropropene	8.230	75	32518	4.932 ug/l #		48
38) Carbon Tetrachloride	8.230	117	42608	6.400 ug/l #		16
44) Trichloroethene	9.347	130	1136	0.231 ug/l		70
59) 2-Hexanone	11.206	43	1428	0.338 ug/l		96
68) m/p-Xylenes	12.082	106	1852	0.206 ug/l		86
76) 1,2,3-Trichloropropane	12.859	75	146860	30.914 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.859	75	146860	98.816 ug/l #		15
82) 4-Chlorotoluene	13.229	91	2704	0.236 ug/l		93
87) 1,3-Dichlorobenzene	13.741	146	1969	0.285 ug/l		82
88) 1,4-Dichlorobenzene	13.741	146	1969	0.288 ug/l		82
91) 1,2-Dichlorobenzene	14.123	146	1319	0.205 ug/l		93
93) 1,2,4-Trichlorobenzene	15.406	180	1777	0.472 ug/l		85
95) Naphthalene	15.653	128	5910	0.456 ug/l #		96
96) 1,2,3-Trichlorobenzene	15.858	180	1570	0.426 ug/l #		69

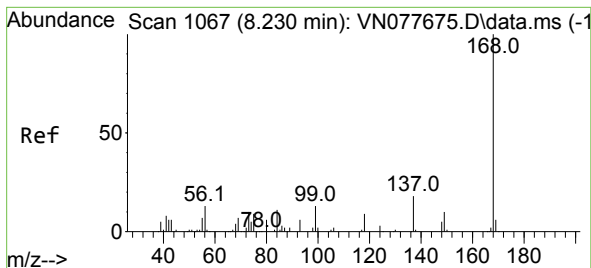
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 16 04:07:42 2023
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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: VN077998.D

Acq: 31 May 2023 17:19

Instrument :

MSVOA_N

ClientSampleId :

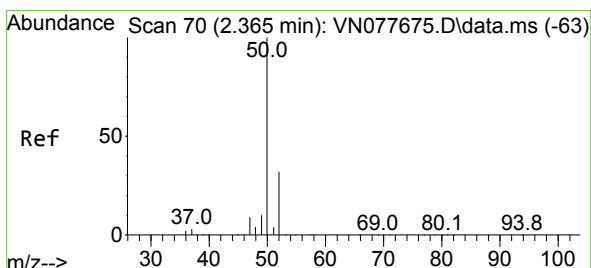
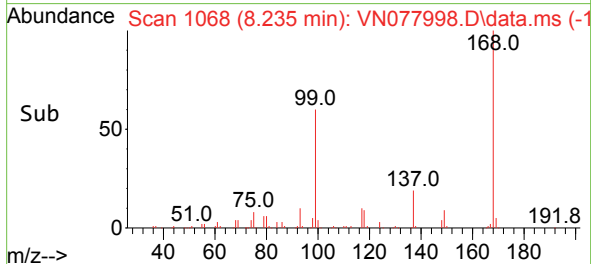
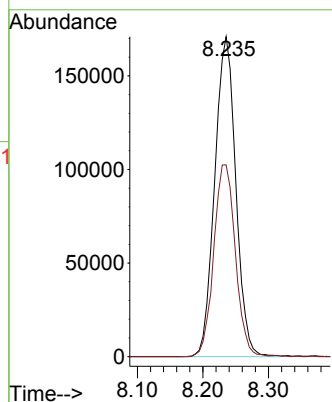
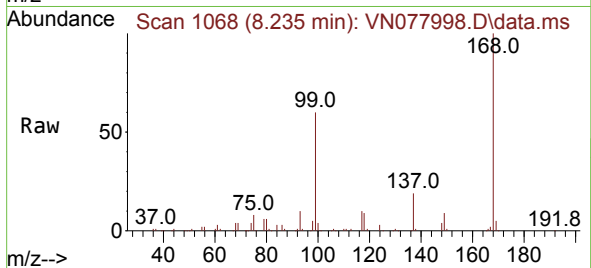
TB03-20230523

Tgt Ion:168 Resp: 380977

Ion Ratio Lower Upper

168 100

99 60.0 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.365 min Scan# 70

Delta R.T. 0.000 min

Lab File: VN077998.D

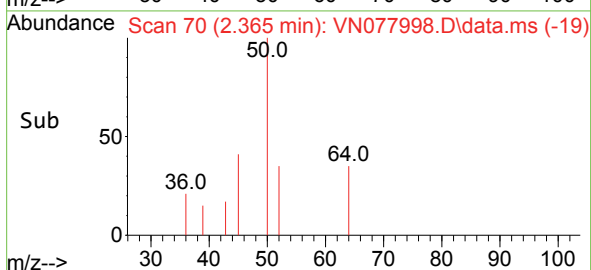
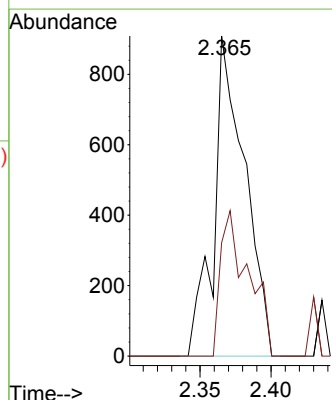
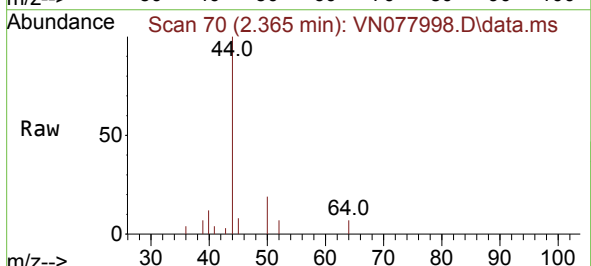
Acq: 31 May 2023 17:19

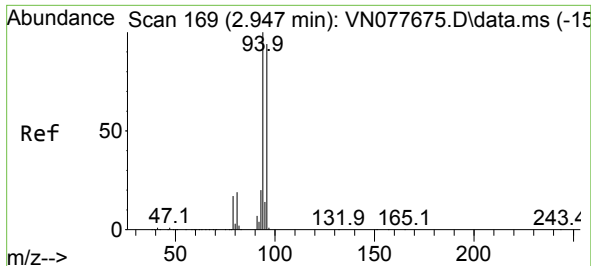
Tgt Ion: 50 Resp: 1382

Ion Ratio Lower Upper

50 100

52 35.4 26.5 39.7

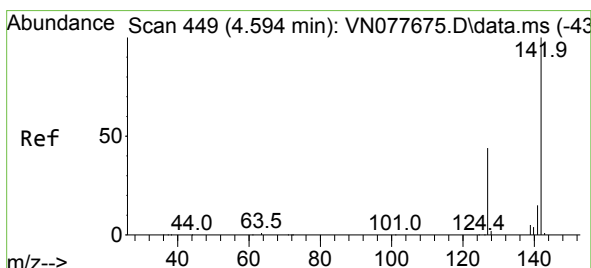
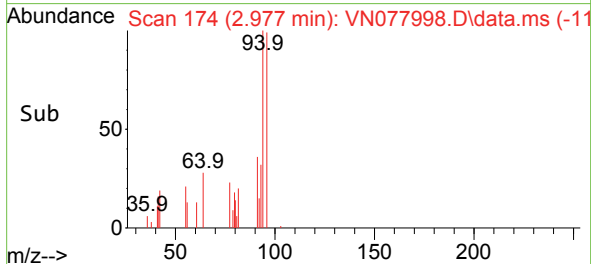
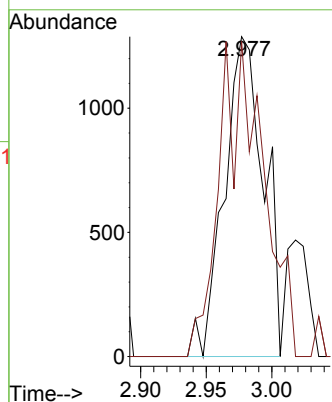
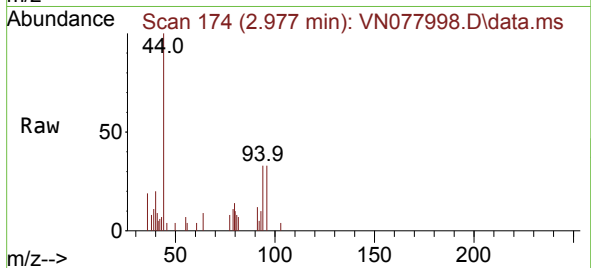




#5
Bromomethane
Concen: 0.663 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.030 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19

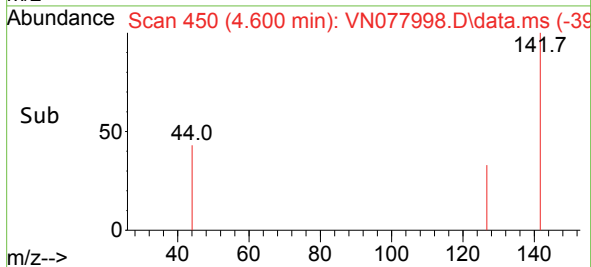
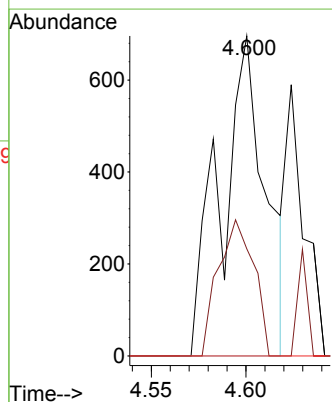
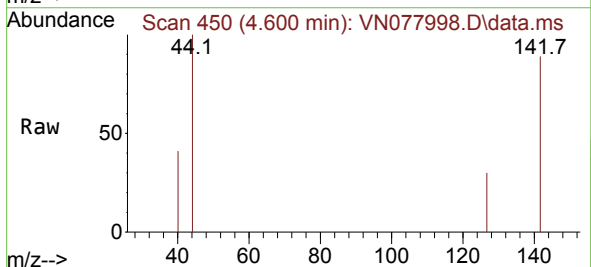
Instrument :
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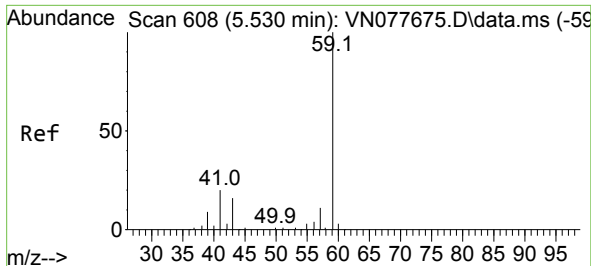
Tgt Ion: 94 Resp: 2680
Ion Ratio Lower Upper
94 100
96 98.5 73.1 109.7



#10
Methyl Iodide
Concen: 0.225 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.006 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19

Tgt Ion: 142 Resp: 1133
Ion Ratio Lower Upper
142 100
127 33.5 37.6 56.4#
141 0.0 11.4 17.0#





#11

Tert butyl alcohol

Concen: 0.529 ug/l

RT: 5.518 min Scan# 608

Delta R.T. -0.012 min

Lab File: VN077998.D

Acq: 31 May 2023 17:19

Instrument :

MSVOA_N

ClientSampleId :

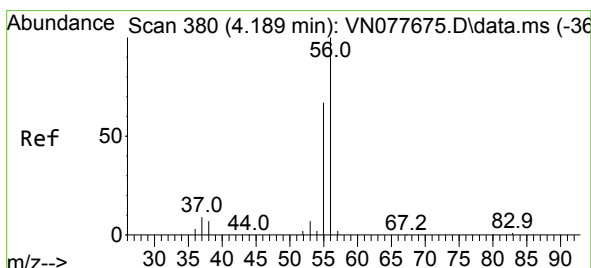
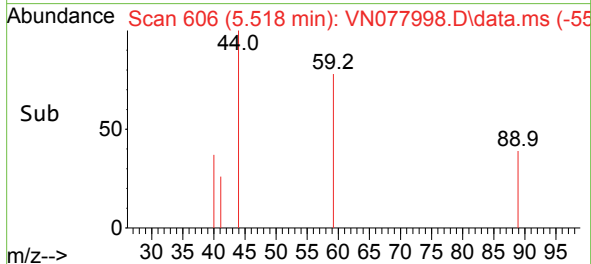
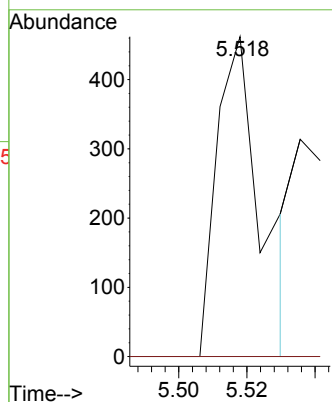
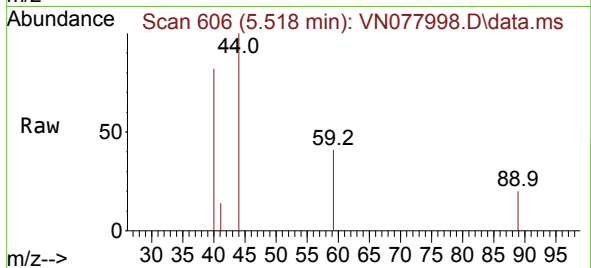
TB03-20230523

Tgt Ion: 59 Resp: 416

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#13

Acrolein

Concen: Below Cal

RT: 4.200 min Scan# 382

Delta R.T. 0.011 min

Lab File: VN077998.D

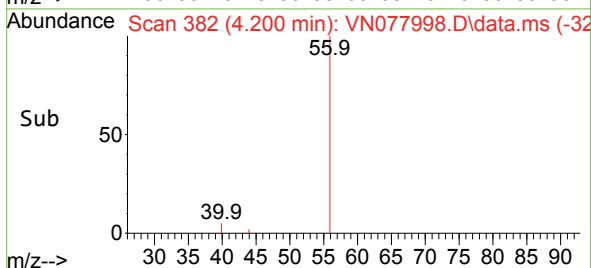
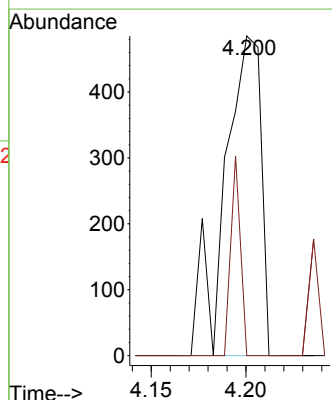
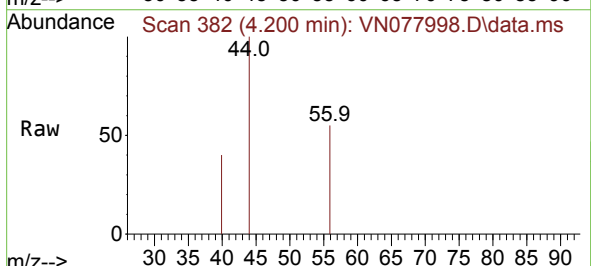
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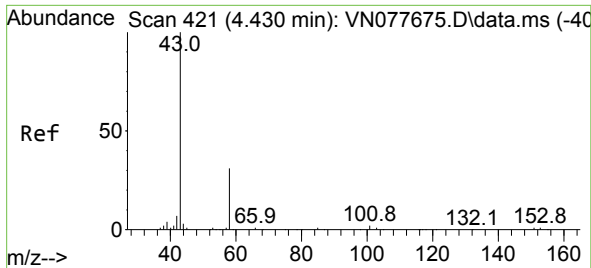
Tgt Ion: 56 Resp: 647

Ion Ratio Lower Upper

56 100

55 16.5 54.5 81.7#

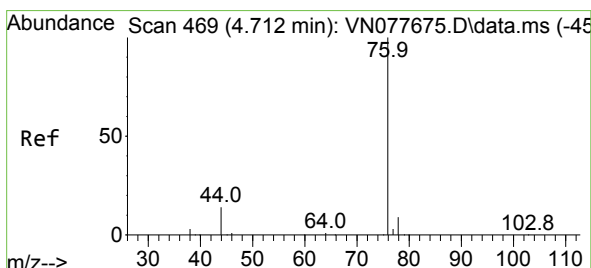
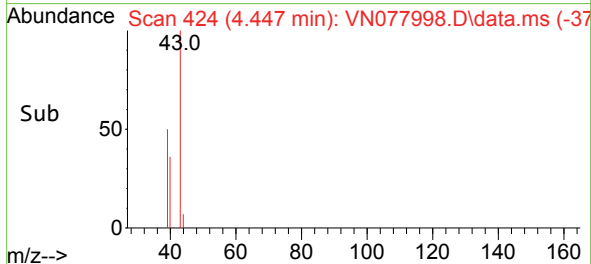
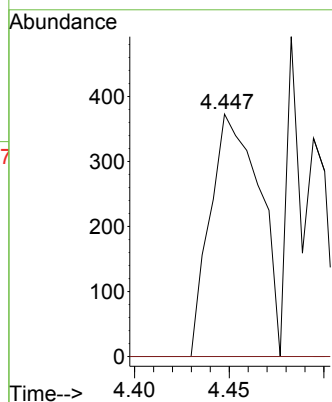
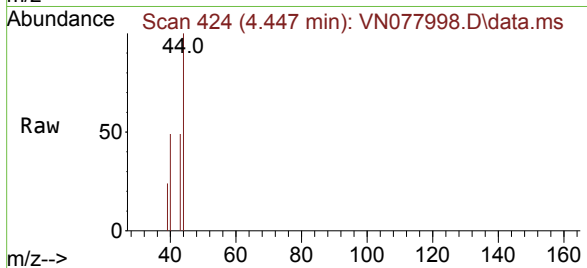




#16
Acetone
Concen: 0.377 ug/l
RT: 4.447 min Scan# 41
Delta R.T. 0.017 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19

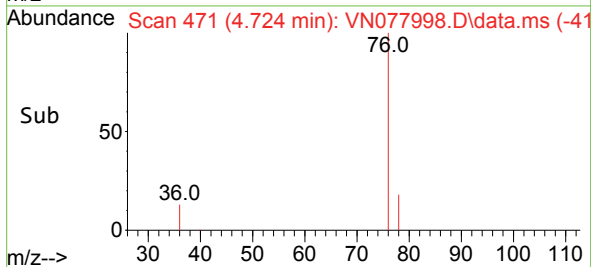
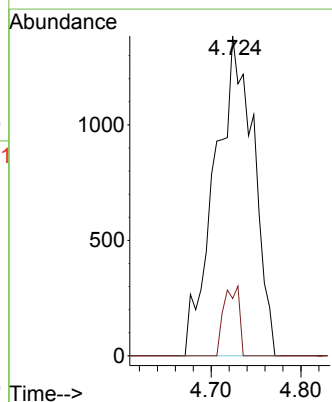
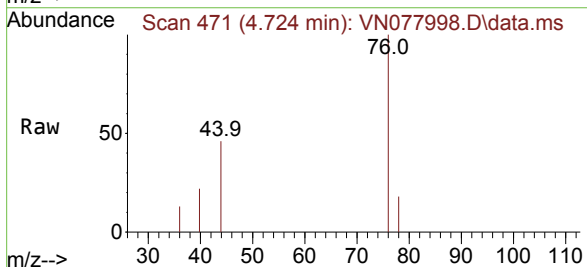
Instrument :
MSVOA_N
ClientSampleId :
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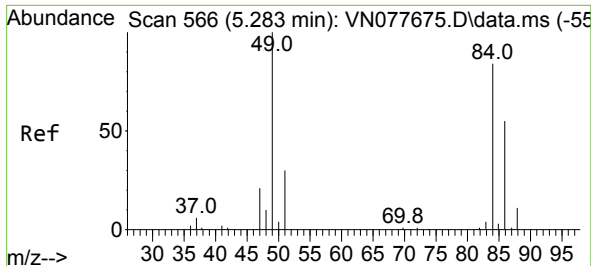
Tgt Ion: 43 Resp: 677
Ion Ratio Lower Upper
43 100
58 0.0 28.0 42.0#



#17
Carbon Disulfide
Concen: 0.383 ug/l
RT: 4.724 min Scan# 471
Delta R.T. 0.012 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19

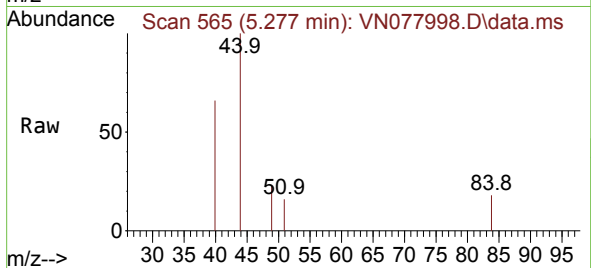
Tgt Ion: 76 Resp: 4137
Ion Ratio Lower Upper
76 100
78 17.9 7.4 11.0#



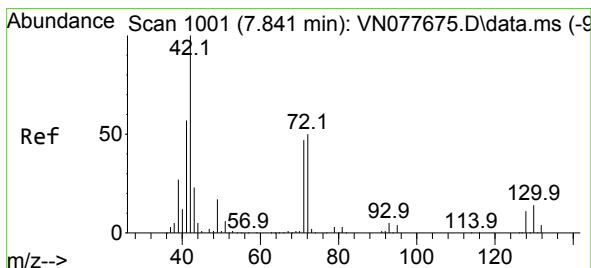
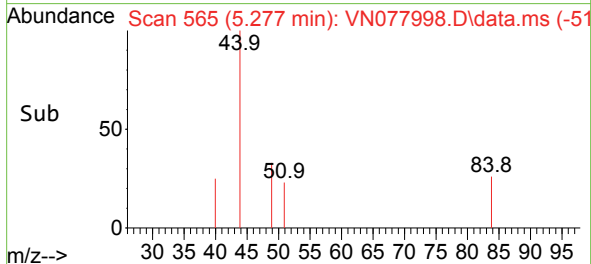
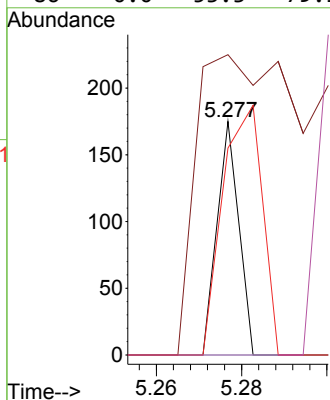


#20
Methylene Chloride
Concen: Below Cal
RT: 5.277 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19

Instrument :
MSVOA_N
ClientSampleId :
TB03-20230523

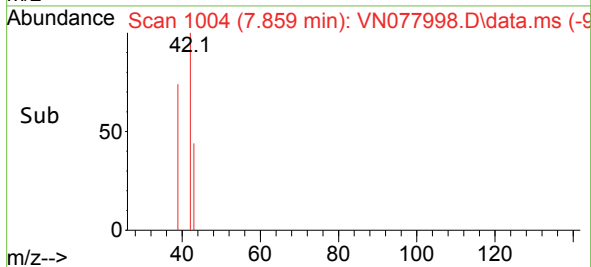
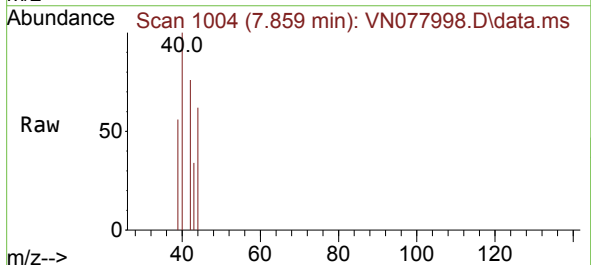
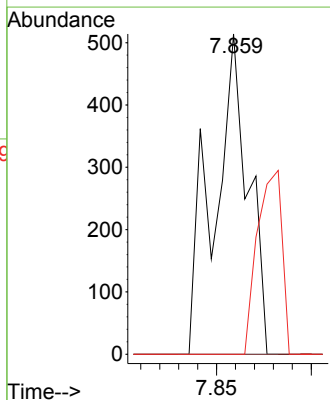


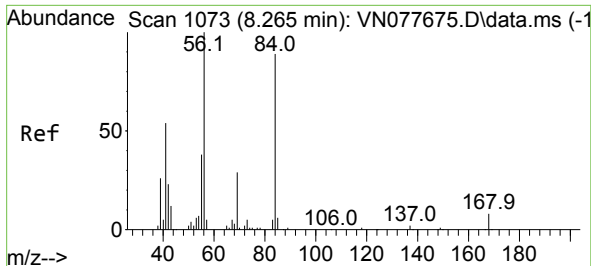
Tgt Ion:	84	Resp:	62
Ion	Ratio	Lower	Upper
84	100		
49	128.6	79.7	119.5#
51	88.6	25.2	37.8#
86	0.0	53.3	79.9#



#29
Tetrahydrofuran
Concen: 0.354 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.018 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19

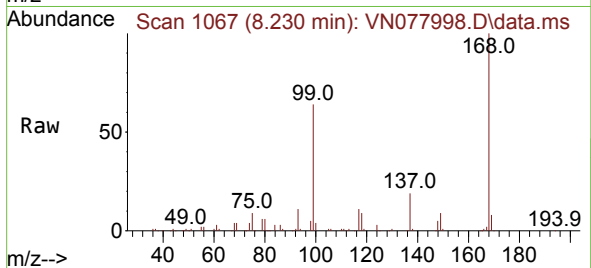
Tgt Ion:	42	Resp:	650
Ion	Ratio	Lower	Upper
42	100		
72	0.0	49.8	74.6#
71	0.0	47.4	71.2#



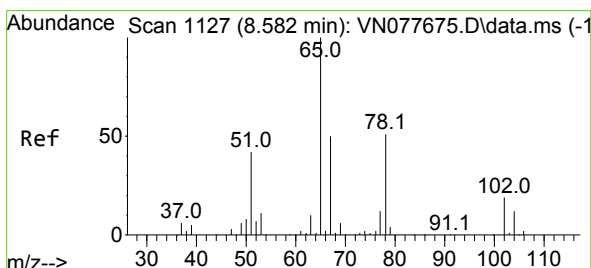
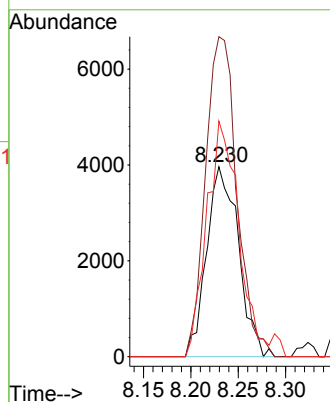
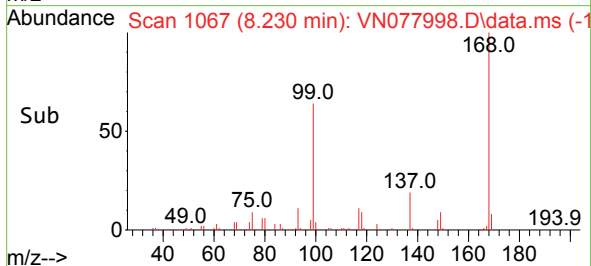


#31
Cyclohexane
Concen: 1.196 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN077998.D
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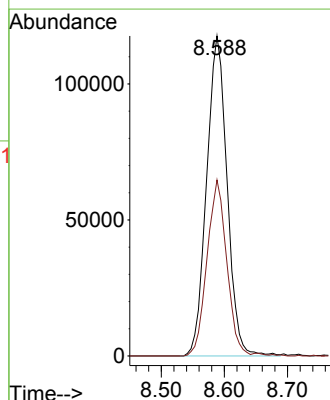
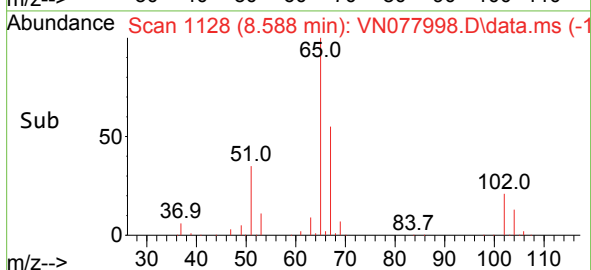
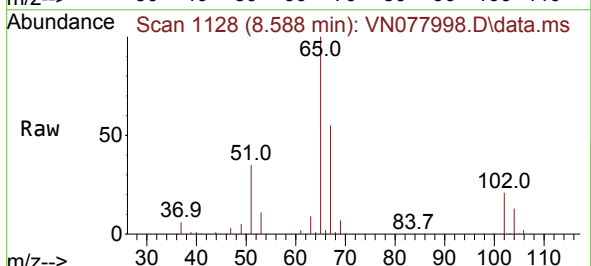


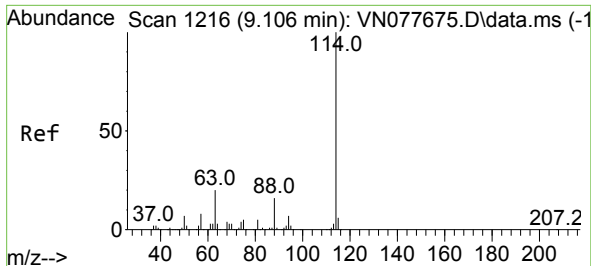
Tgt Ion: 56 Resp: 9263
Ion Ratio Lower Upper
56 100
69 168.5 26.8 40.2#
84 124.0 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 46.599 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19

Tgt Ion: 65 Resp: 265630
Ion Ratio Lower Upper
65 100
67 52.8 0.0 106.6

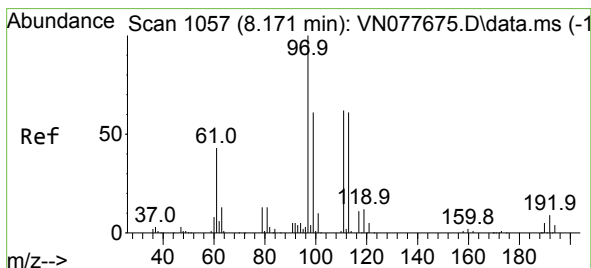
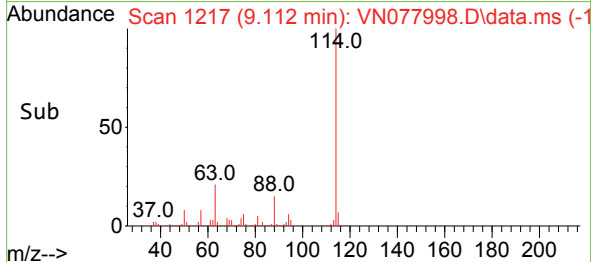
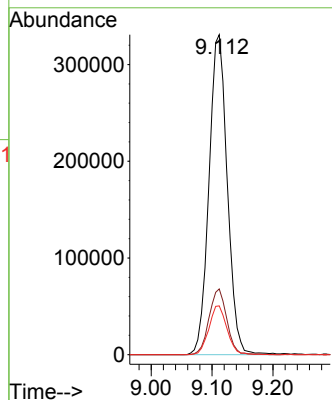
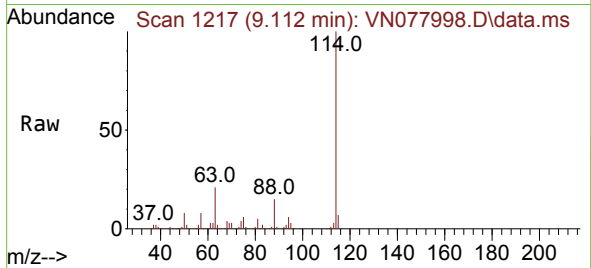




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19

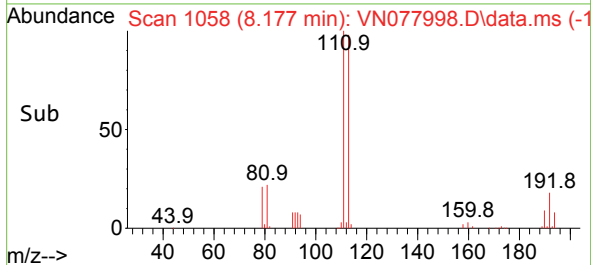
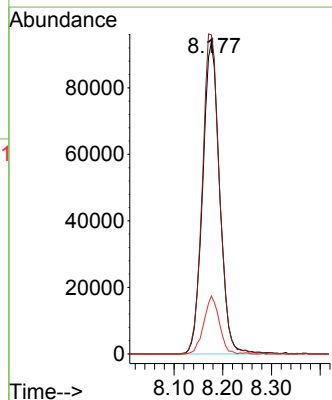
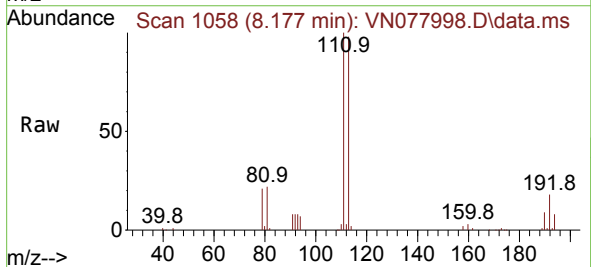
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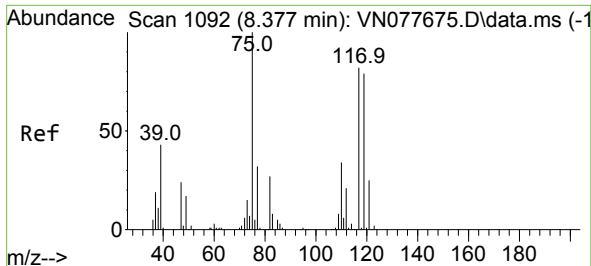
Tgt Ion:114 Resp: 691261
Ion Ratio Lower Upper
114 100
63 20.6 0.0 36.4
88 15.2 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.422 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19

Tgt Ion:113 Resp: 227282
Ion Ratio Lower Upper
113 100
111 103.1 82.6 123.8
192 16.8 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.932 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN077998.D

Acq: 31 May 2023 17:19

Instrument :

MSVOA_N

ClientSampleId :

TB03-20230523

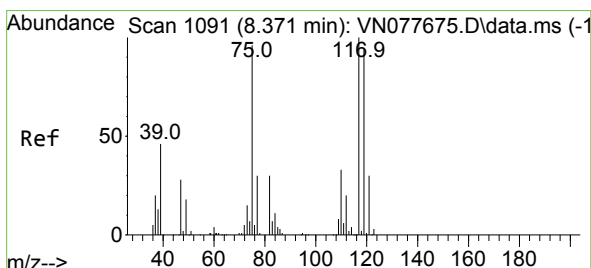
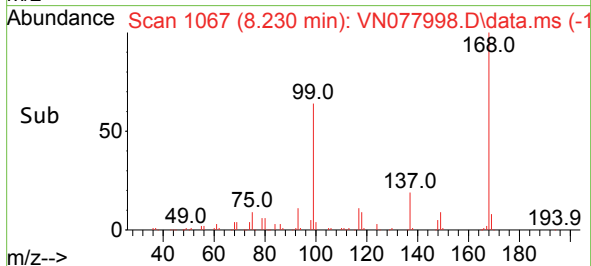
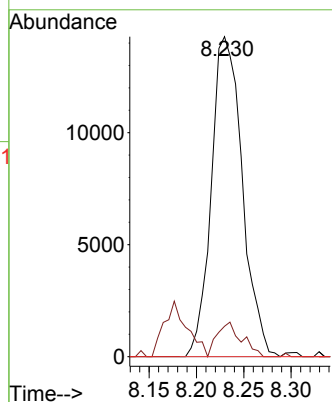
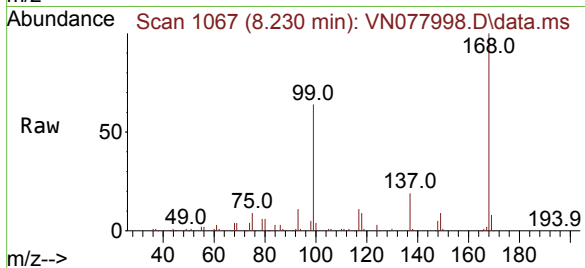
Tgt Ion: 75 Resp: 32518

Ion Ratio Lower Upper

75 100

110 8.5 19.1 57.3#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 6.400 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.141 min

Lab File: VN077998.D

Acq: 31 May 2023 17:19

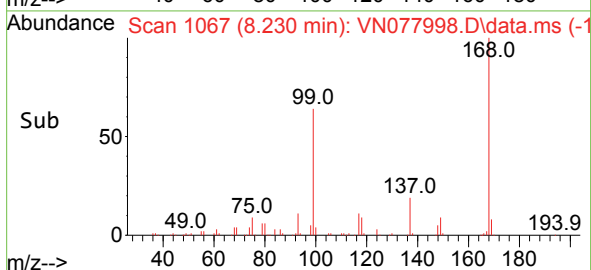
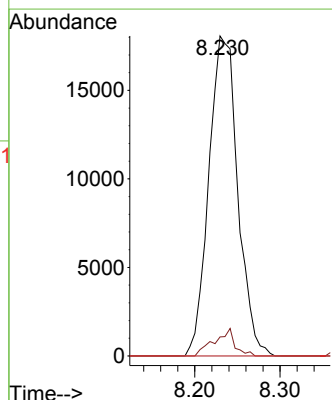
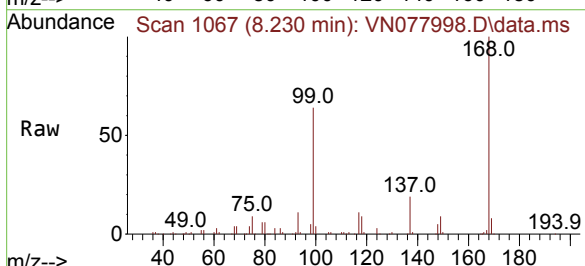
Tgt Ion: 117 Resp: 42608

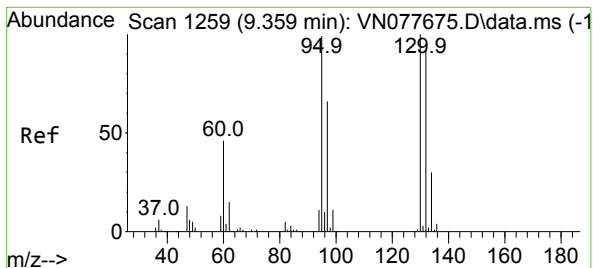
Ion Ratio Lower Upper

117 100

119 5.9 77.3 115.9#

121 0.0 23.3 34.9#





#44

Trichloroethene

Concen: 0.231 ug/l

RT: 9.347 min Scan# 11

Delta R.T. -0.012 min

Lab File: VN077998.D

Acq: 31 May 2023 17:19

Instrument :

MSVOA_N

ClientSampleId :

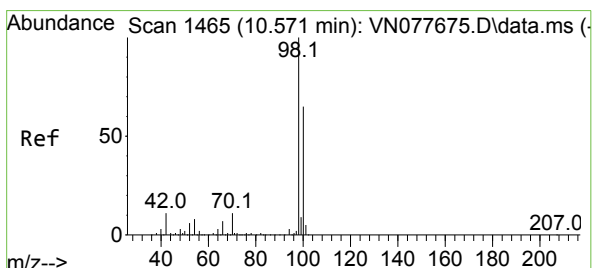
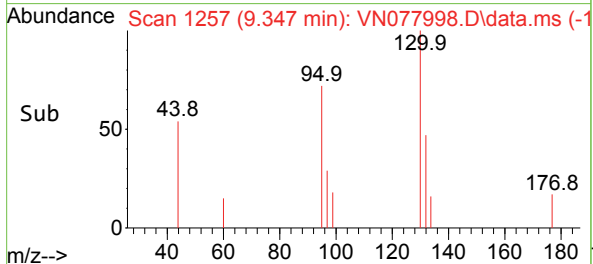
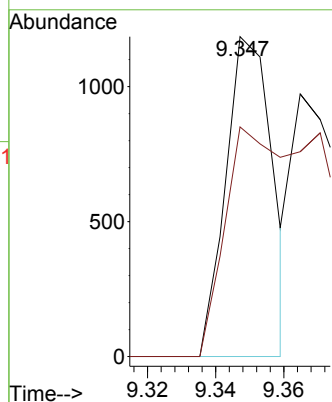
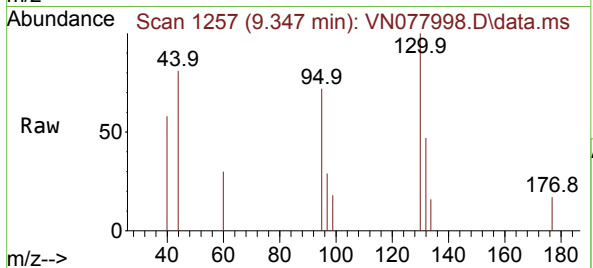
TB03-20230523

Tgt Ion:130 Resp: 1136

Ion Ratio Lower Upper

130 100

95 71.8 0.0 204.6



#50

Toluene-d8

Concen: 48.779 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. 0.005 min

Lab File: VN077998.D

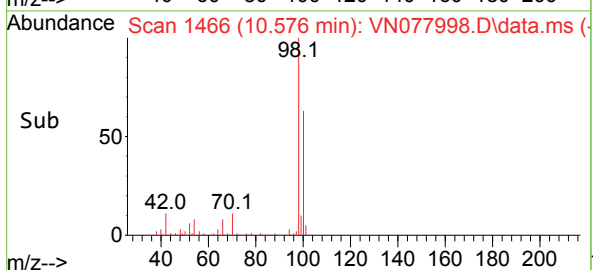
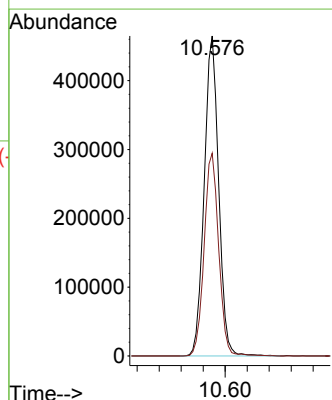
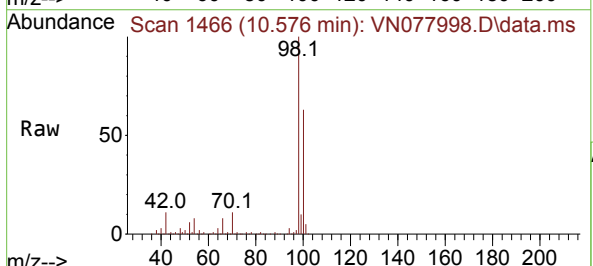
Acq: 31 May 2023 17:19

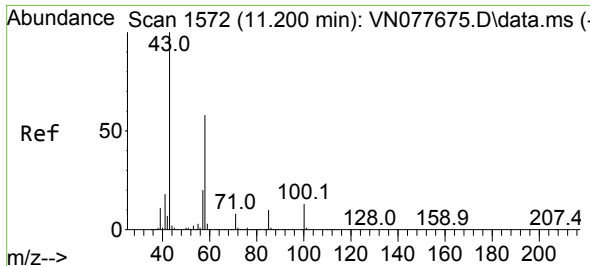
Tgt Ion: 98 Resp: 846325

Ion Ratio Lower Upper

98 100

100 63.9 52.0 78.0

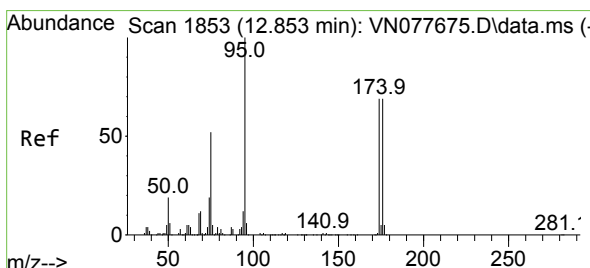
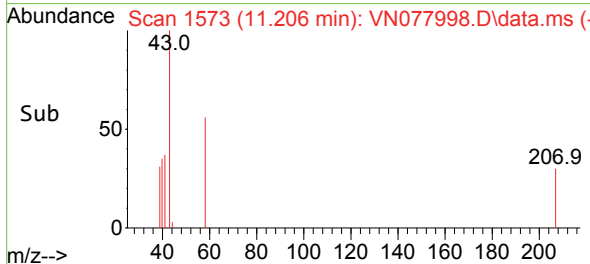
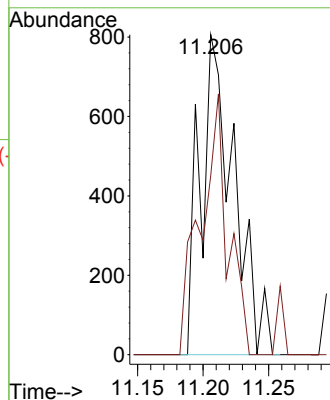
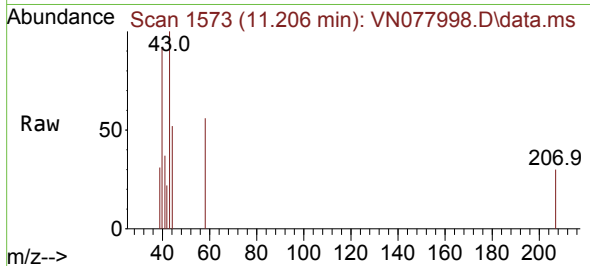




#59
2-Hexanone
Concen: 0.338 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19

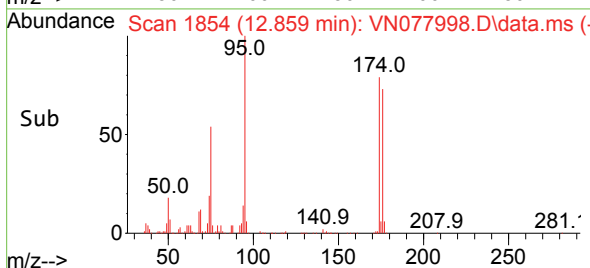
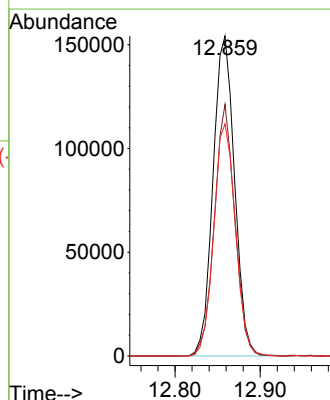
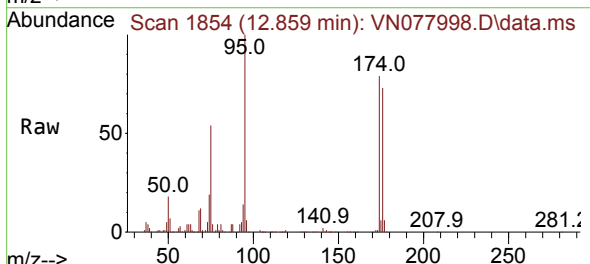
Instrument :
MSVOA_N
ClientSampleId :
TB03-20230523

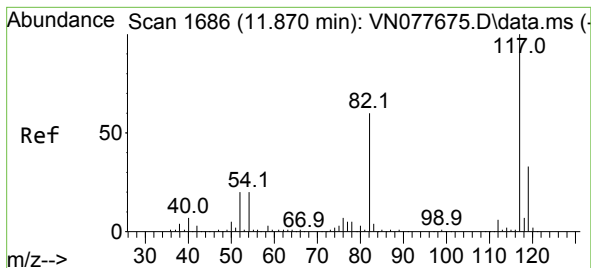
Tgt Ion: 43 Resp: 1428
Ion Ratio Lower Upper
43 100
58 66.5 31.7 95.1



#62
4-Bromofluorobenzene
Concen: 44.107 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19

Tgt Ion: 95 Resp: 270276
Ion Ratio Lower Upper
95 100
174 74.9 0.0 143.8
176 73.0 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: VN077998.D

Acq: 31 May 2023 17:19

Instrument :

MSVOA_N

ClientSampleId :

TB03-20230523

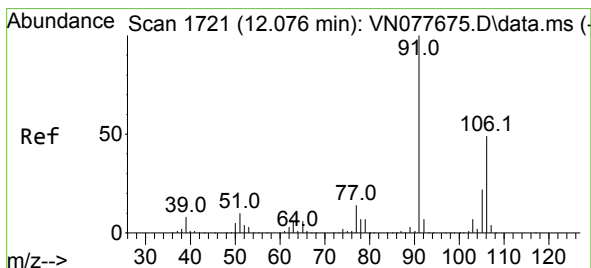
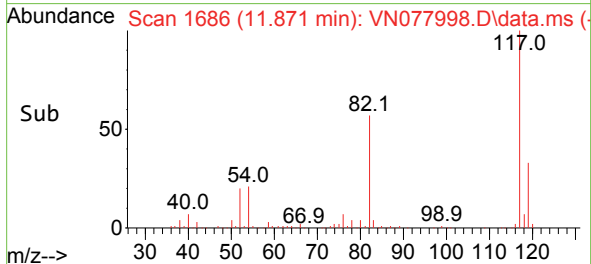
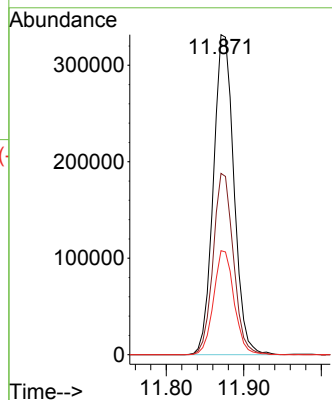
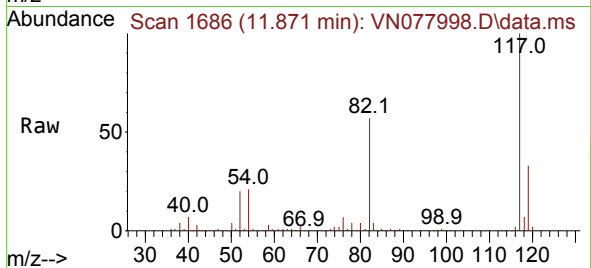
Tgt Ion:117 Resp: 611929

Ion Ratio Lower Upper

117 100

82 56.6 44.0 66.0

119 32.5 25.6 38.4



#68

m/p-Xylenes

Concen: 0.206 ug/l

RT: 12.082 min Scan# 1722

Delta R.T. 0.006 min

Lab File: VN077998.D

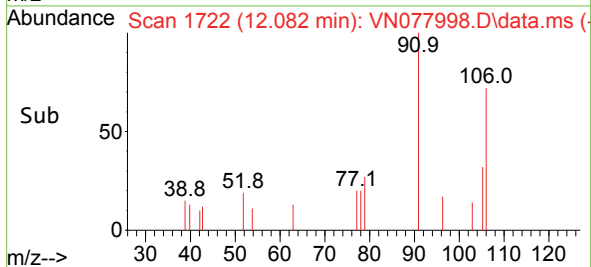
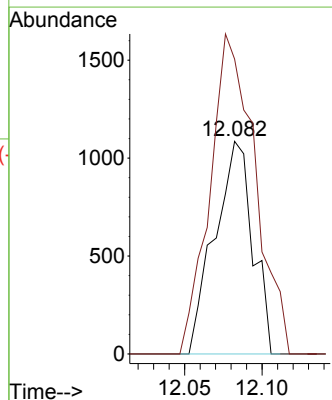
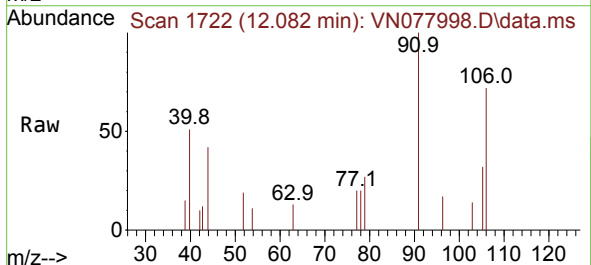
Acq: 31 May 2023 17:19

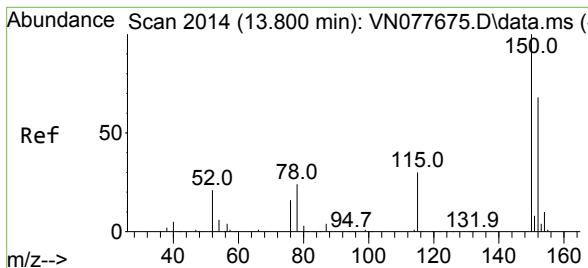
Tgt Ion:106 Resp: 1852

Ion Ratio Lower Upper

106 100

91 178.1 159.6 239.4

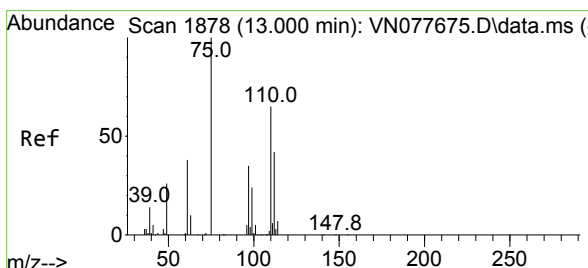
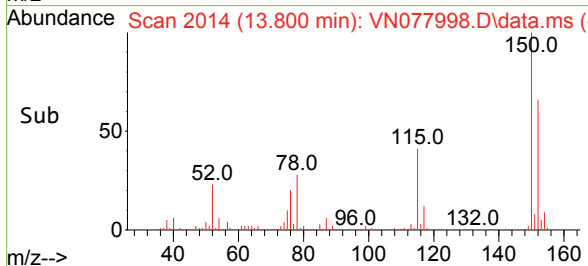
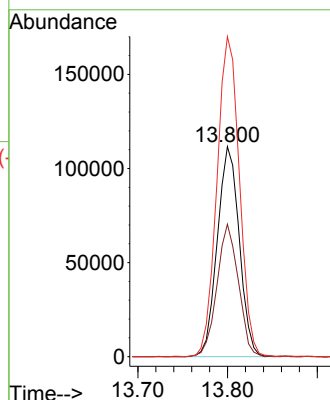
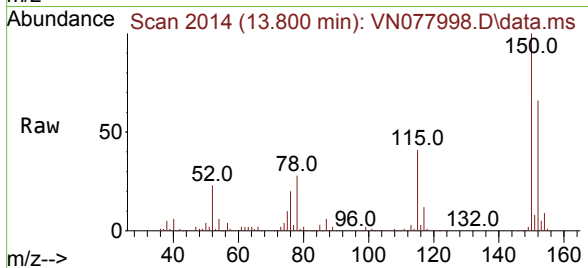




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN077998.D
 Acq: 31 May 2023 17:19

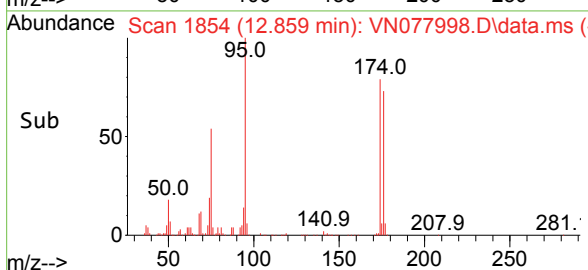
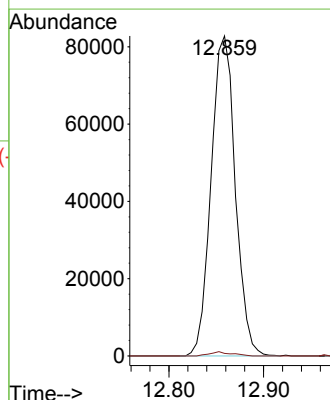
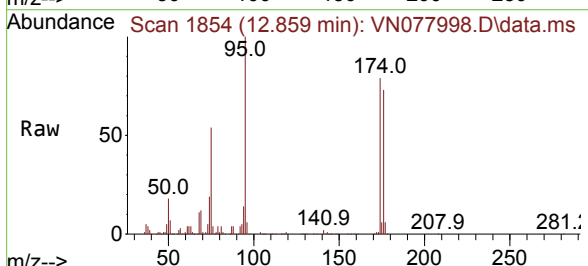
Instrument :
 MSVOA_N
 ClientSampleId :
 TB03-20230523

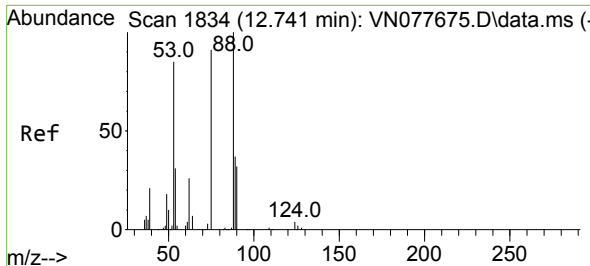
Tgt Ion:152 Resp: 189695
 Ion Ratio Lower Upper
 152 100
 115 61.6 32.3 96.8
 150 156.2 0.0 355.8



#76
 1,2,3-Trichloropropane
 Concen: 30.914 ug/l
 RT: 12.859 min Scan# 1854
 Delta R.T. -0.141 min
 Lab File: VN077998.D
 Acq: 31 May 2023 17:19

Tgt Ion: 75 Resp: 146860
 Ion Ratio Lower Upper
 75 100
 77 1.2 84.5 253.5#

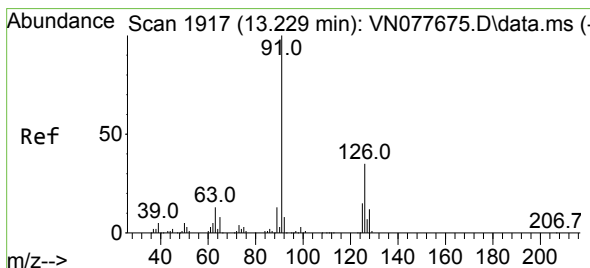
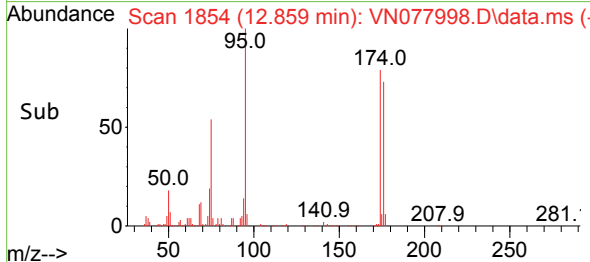
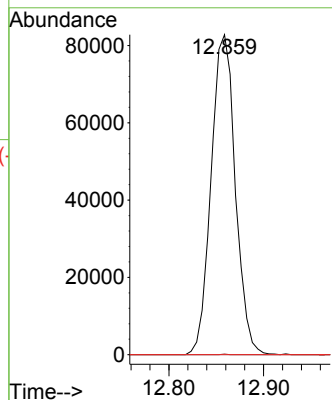
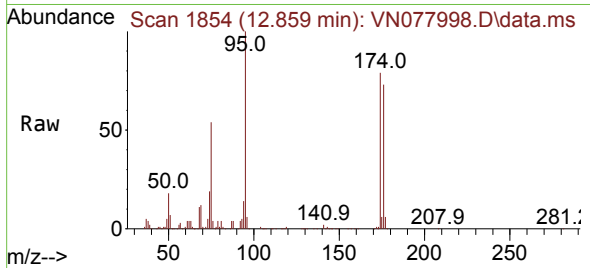




#81
trans-1,4-Dichloro-2-butene
Concen: 98.816 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19

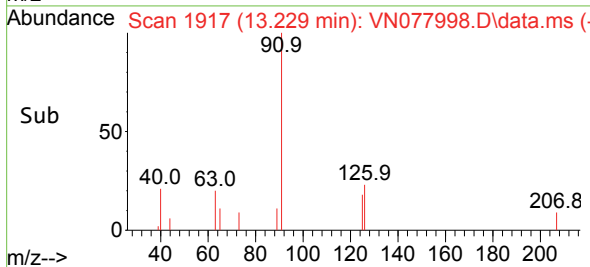
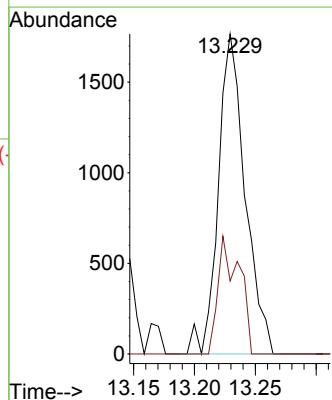
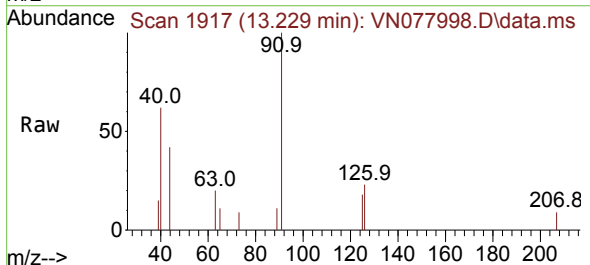
Instrument :
MSVOA_N
ClientSampleId :
TB03-20230523

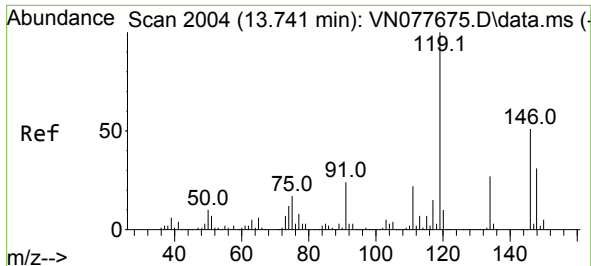
Tgt Ion: 75 Resp: 146860
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#82
4-Chlorotoluene
Concen: 0.236 ug/l
RT: 13.229 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19

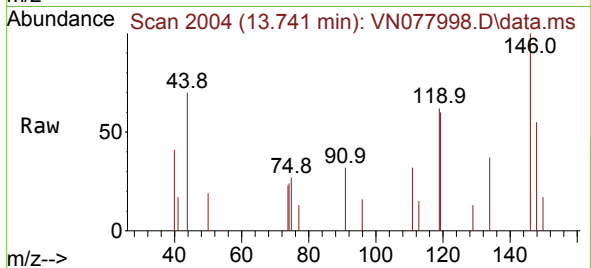
Tgt Ion: 91 Resp: 2704
Ion Ratio Lower Upper
91 100
126 29.2 16.7 50.0



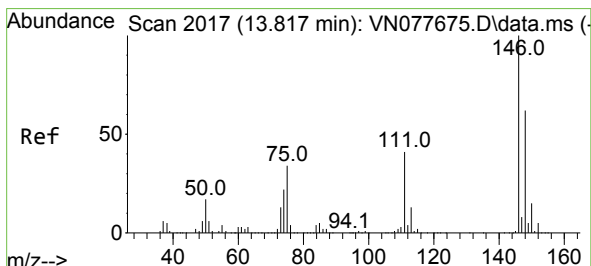
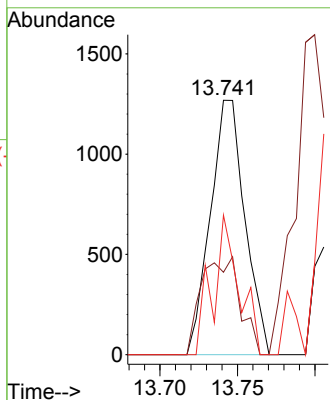
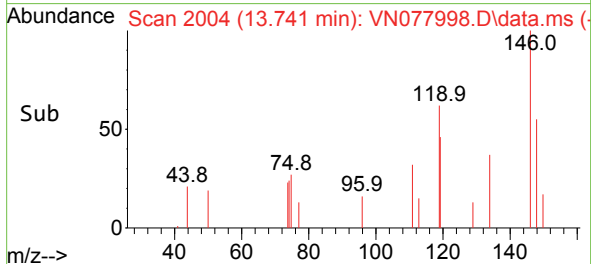


#87
1,3-Dichlorobenzene
Concen: 0.285 ug/l
RT: 13.741 min Scan# 2004
Delta R.T. -0.000 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19

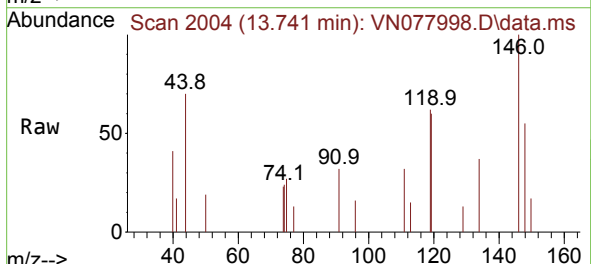
Instrument :
MSVOA_N
ClientSampleId :
TB03-20230523



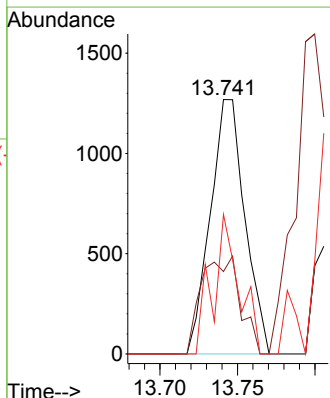
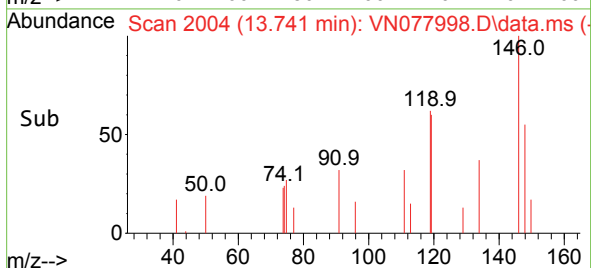
Tgt Ion:146 Resp: 1969
Ion Ratio Lower Upper
146 100
111 42.8 22.1 66.3
148 41.5 32.0 96.0

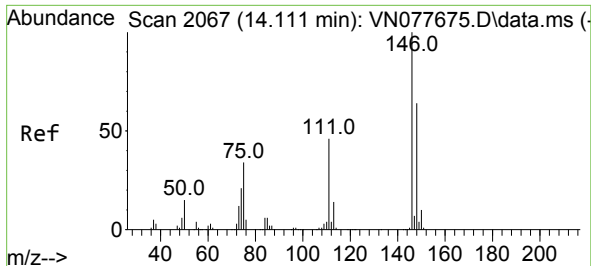


#88
1,4-Dichlorobenzene
Concen: 0.288 ug/l
RT: 13.741 min Scan# 2004
Delta R.T. -0.076 min
Lab File: VN077998.D
Acq: 31 May 2023 17:19



Tgt Ion:146 Resp: 1969
Ion Ratio Lower Upper
146 100
111 42.8 20.6 61.8
148 41.5 31.6 94.8





#91

1,2-Dichlorobenzene

Concen: 0.205 ug/l

RT: 14.123 min Scan# 2069

Delta R.T. 0.012 min

Lab File: VN077998.D

Acq: 31 May 2023 17:19

Instrument :

MSVOA_N

ClientSampleId :

TB03-20230523

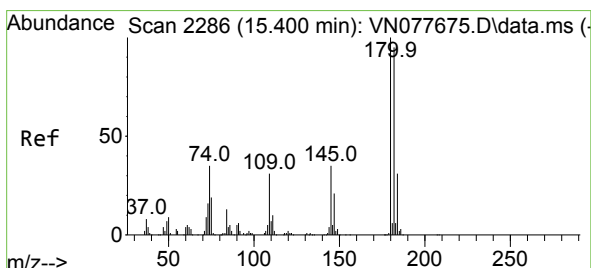
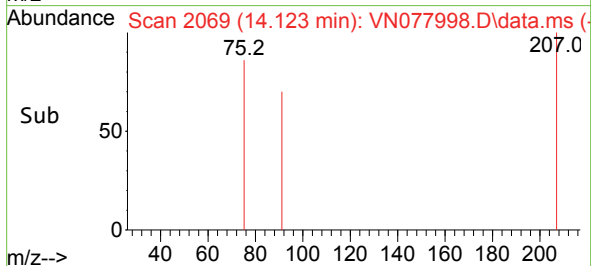
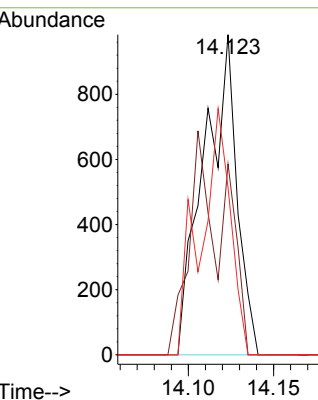
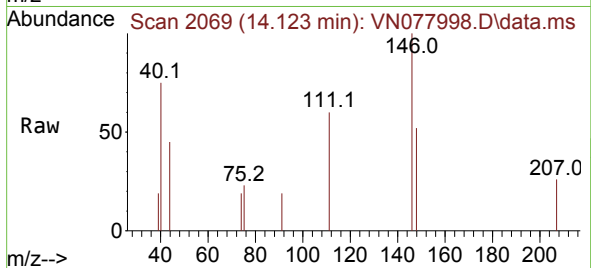
Tgt Ion:146 Resp: 1319

Ion Ratio Lower Upper

146 100

111 48.1 22.0 66.0

148 69.9 31.8 95.3



#93

1,2,4-Trichlorobenzene

Concen: 0.472 ug/l

RT: 15.406 min Scan# 2287

Delta R.T. 0.006 min

Lab File: VN077998.D

Acq: 31 May 2023 17:19

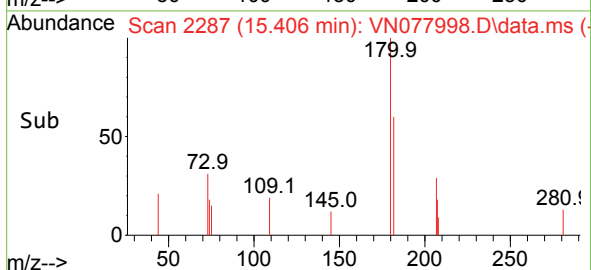
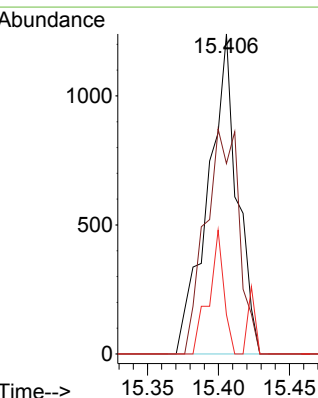
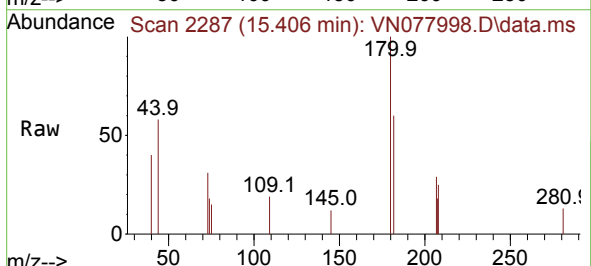
Tgt Ion:180 Resp: 1777

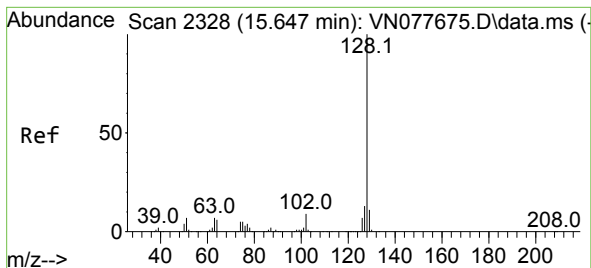
Ion Ratio Lower Upper

180 100

182 80.9 46.1 138.2

145 19.9 16.6 49.8





#95

Naphthalene

Concen: 0.456 ug/l

RT: 15.653 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN077998.D

Acq: 31 May 2023 17:19

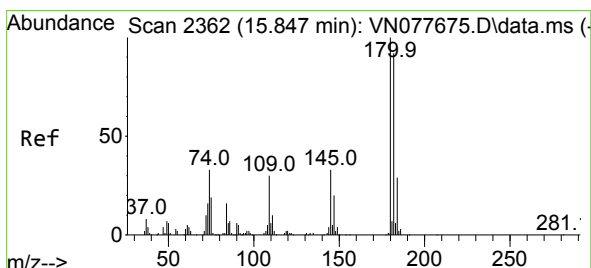
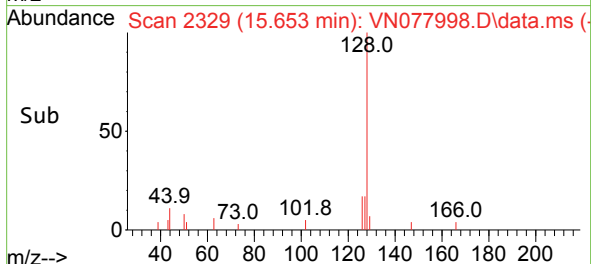
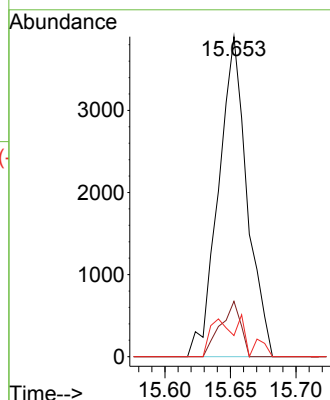
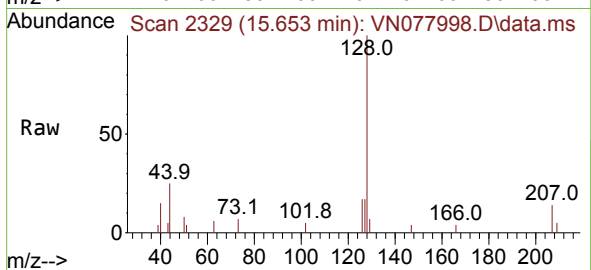
Instrument :

MSVOA_N

ClientSampleId :

TB03-20230523

Tgt Ion:128	Resp:	5910
Ion Ratio	Lower	Upper
128	100	
127	12.2	10.0 15.0
129	13.9	8.7 13.1#



#96

1,2,3-Trichlorobenzene

Concen: 0.426 ug/l

RT: 15.858 min Scan# 2364

Delta R.T. 0.011 min

Lab File: VN077998.D

Acq: 31 May 2023 17:19

Tgt Ion:180	Resp:	1570
Ion Ratio	Lower	Upper
180	100	
182	118.4	46.2 138.6
145	10.8	17.5 52.6#

