

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032023\
 Data File : VN077077.D
 Acq On : 20 Mar 2023 18:43
 Operator : JC\MD
 Sample : 01941-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT180D1-20230313

Quant Time: Mar 21 05:40:56 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031723W.M
 Quant Title : SW846 8260
 QLast Update : Mon Mar 20 08:50:30 2023
 Response via : Initial Calibration

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

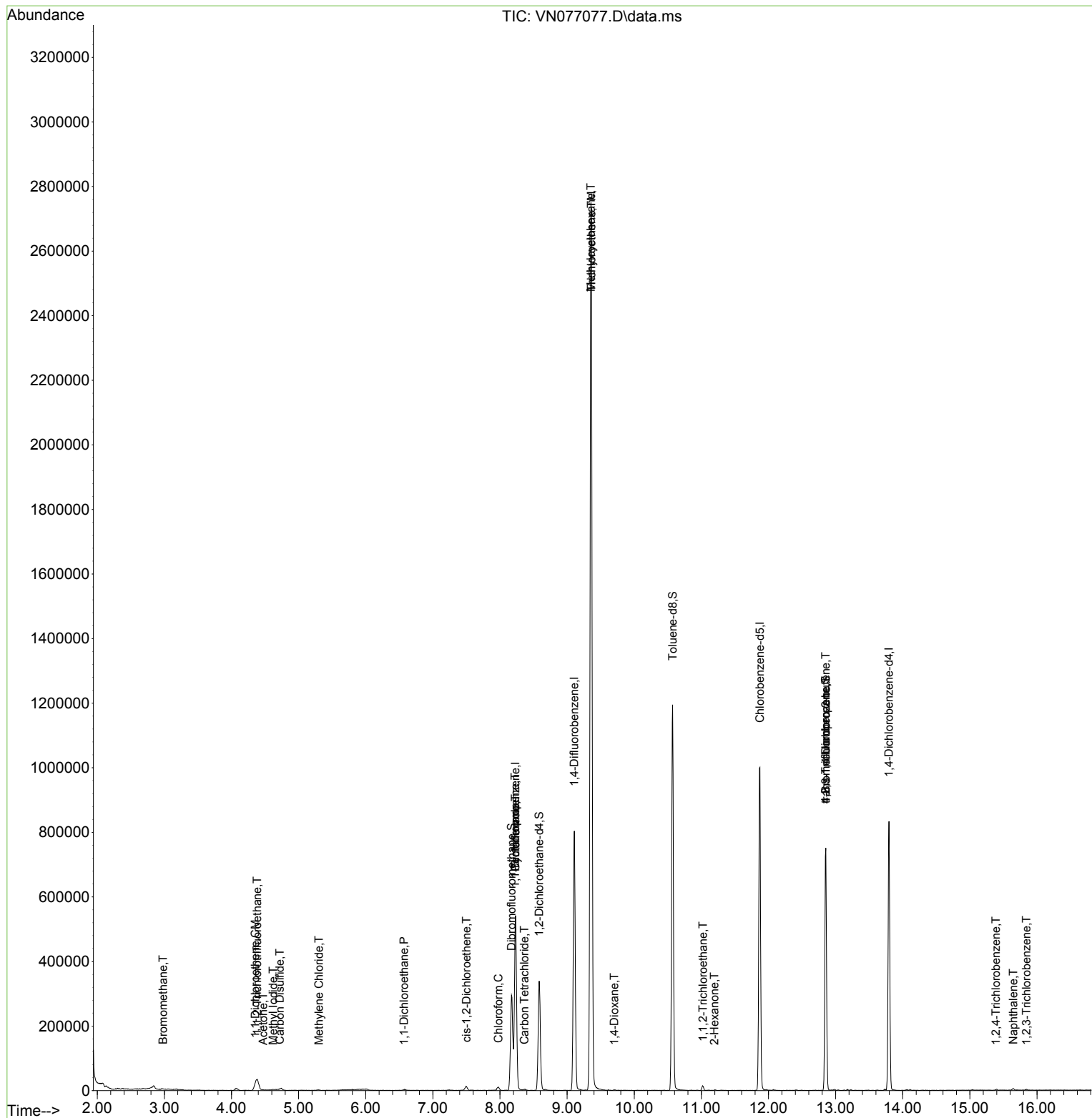
Internal Standards						
1) Pentafluorobenzene	8.231	168	372023	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	669073	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	584252	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	215500	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	277035	46.620	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.240%		
35) Dibromofluoromethane	8.172	113	215911	46.080	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.160%		
50) Toluene-d8	10.572	98	818162	48.882	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.760%		
62) 4-Bromofluorobenzene	12.854	95	274224	46.365	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.720%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.143	85	2291	Below Cal		77
5) Bromomethane	2.978	94	987	0.361 ug/l #		76
9) 1,1,2-Trichlorotrifluo...	4.384	101	20149	4.081 ug/l		95
10) Methyl Iodide	4.619	142	1216	0.219 ug/l #		39
12) 1,1-Dichloroethene	4.354	96	10275	2.275 ug/l		96
16) Acetone	4.472	43	2456	0.928 ug/l #		43
17) Carbon Disulfide	4.719	76	2698	0.205 ug/l #		77
20) Methylene Chloride	5.301	84	1253	0.218 ug/l #		55
24) 1,1-Dichloroethane	6.572	63	4766	0.460 ug/l #		84
27) cis-1,2-Dichloroethene	7.501	96	7780	1.388 ug/l		81
30) Chloroform	7.978	83	10455	1.039 ug/l		100
31) Cyclohexane	8.231	56	10033	1.032 ug/l #		1
36) 1,1-Dichloropropene	8.225	75	33328	4.554 ug/l #		51
38) Carbon Tetrachloride	8.366	117	2491	0.349 ug/l		84
39) Methylcyclohexane	9.354	83	13357	1.559 ug/l #		1
44) Trichloroethene	9.360	130	988493	193.891 ug/l		97
49) 1,4-Dioxane	9.701	88	1354	13.556 ug/l #		77
55) 1,1,2-Trichloroethane	11.025	97	4940	0.945 ug/l		94
59) 2-Hexanone	11.195	43	1307	0.237 ug/l		96
76) 1,2,3-Trichloropropane	12.854	75	143742	25.787 ug/l #		1
81) trans-1,4-Dichloro-2-b...	12.854	75	143742	70.980 ug/l #		10
93) 1,2,4-Trichlorobenzene	15.389	180	1134	0.308 ug/l		78
95) Naphthalene	15.648	128	5610	2.289 ug/l		98
96) 1,2,3-Trichlorobenzene	15.842	180	1417	0.383 ug/l #		82

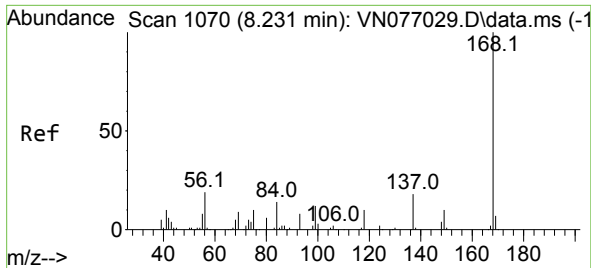
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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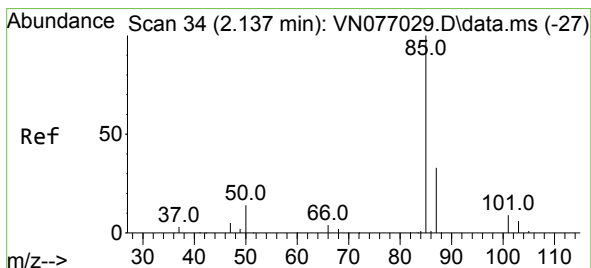
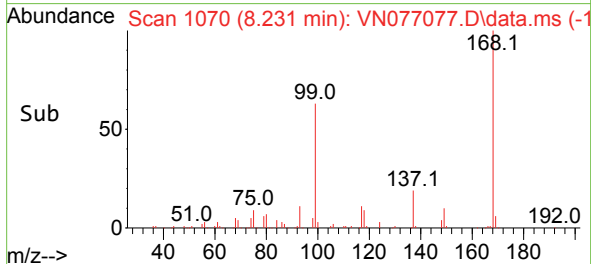
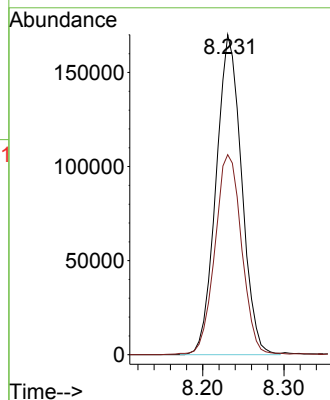
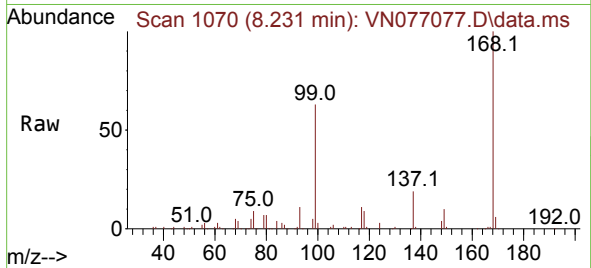




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.231 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

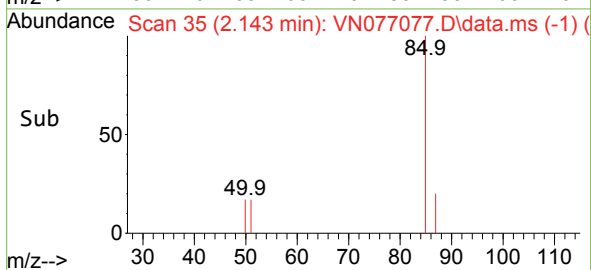
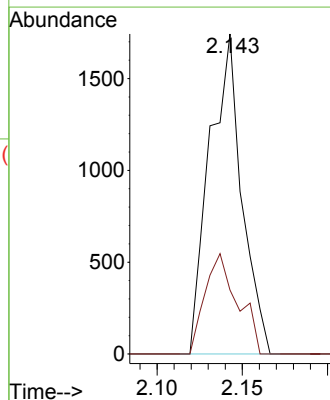
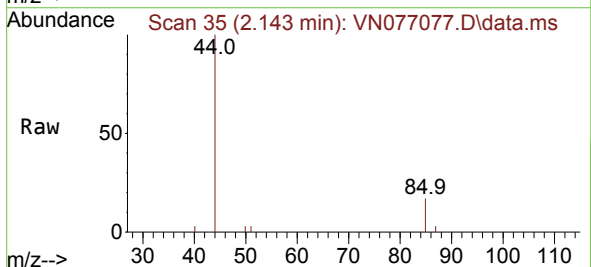
Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313

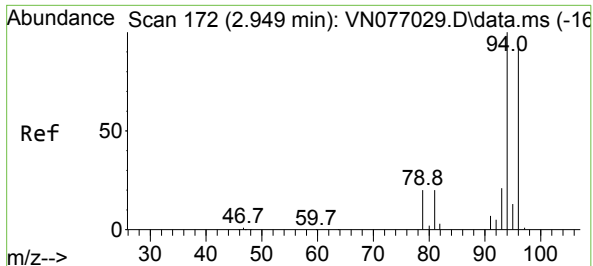
Tgt Ion:168 Resp: 372023
Ion Ratio Lower Upper
168 100
99 62.1 53.9 80.9



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 2.143 min Scan# 35
Delta R.T. 0.006 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

Tgt Ion: 85 Resp: 2291
Ion Ratio Lower Upper
85 100
87 20.0 16.4 49.2

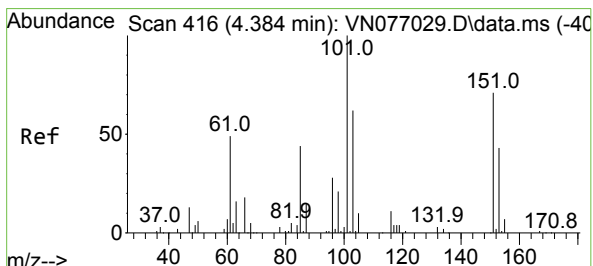
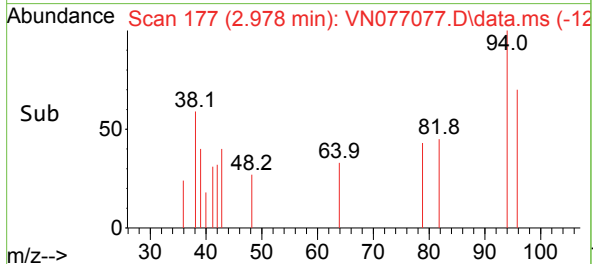
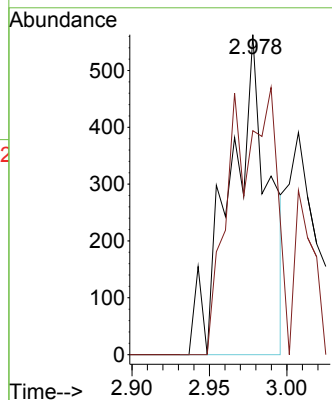
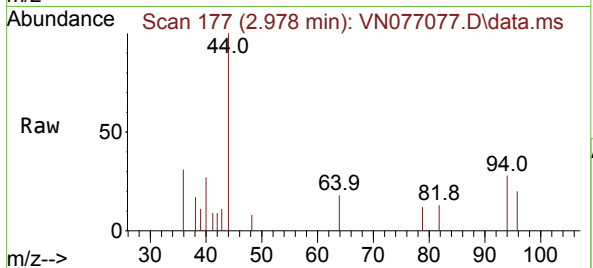




#5
Bromomethane
Concen: 0.361 ug/l
RT: 2.978 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

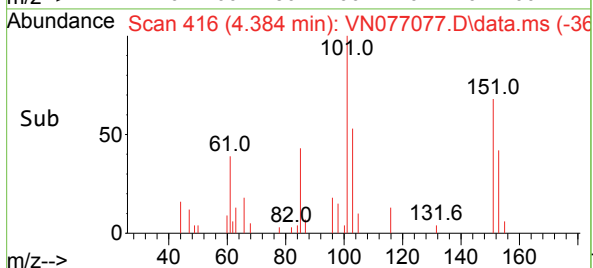
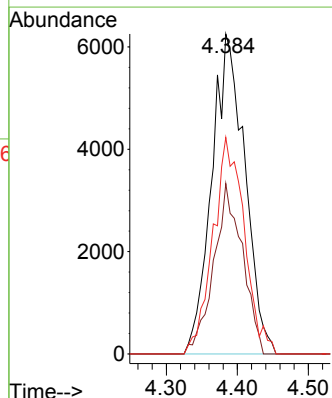
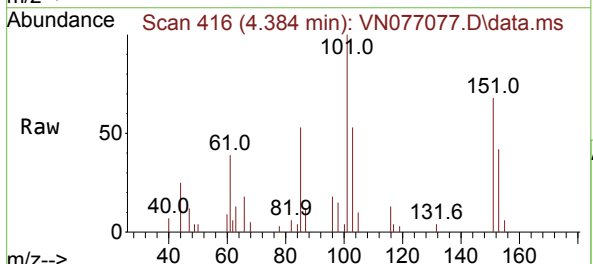
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MSVOA_N
ClientSampleId :
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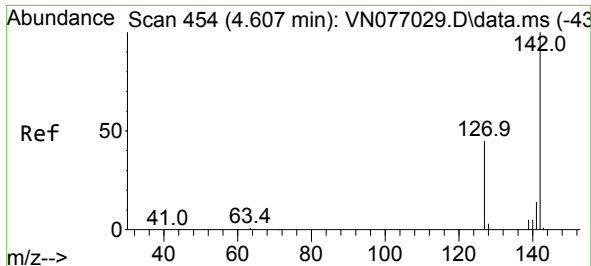
Tgt Ion: 94 Resp: 987
Ion Ratio Lower Upper
94 100
96 70.0 74.1 111.1#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.081 ug/l
RT: 4.384 min Scan# 416
Delta R.T. -0.000 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

Tgt Ion: 101 Resp: 20149
Ion Ratio Lower Upper
101 100
85 46.4 36.6 55.0
151 64.4 56.9 85.3

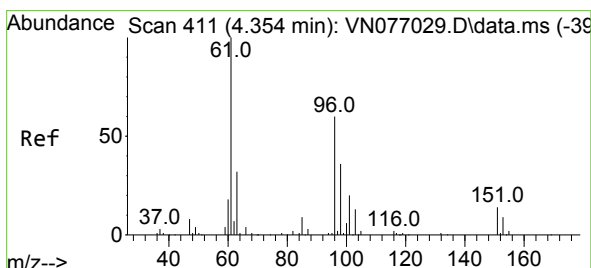
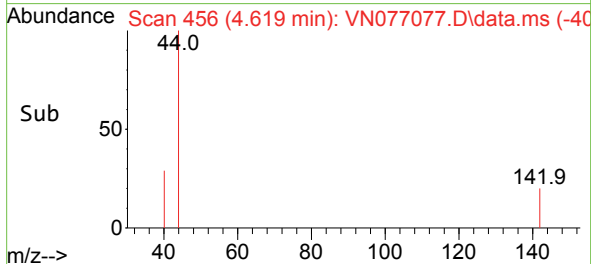
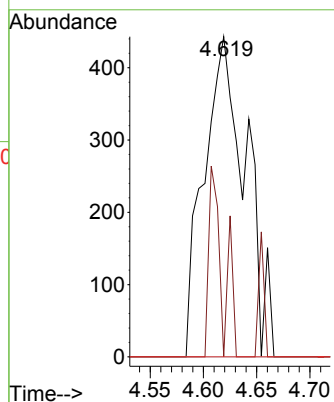
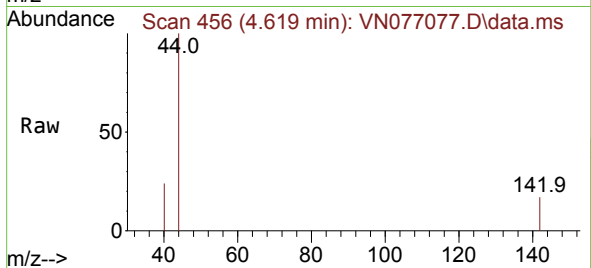




#10
Methyl Iodide
Concen: 0.219 ug/l
RT: 4.619 min Scan# 411
Delta R.T. 0.012 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

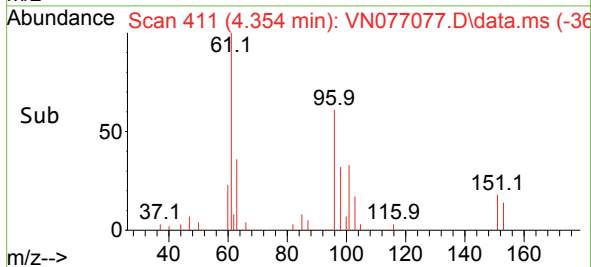
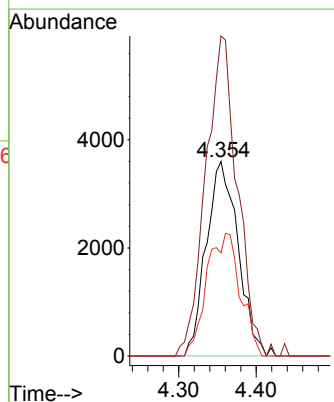
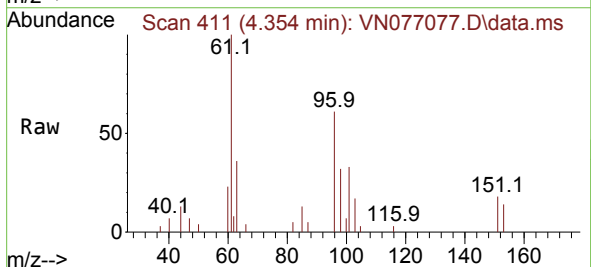
Instrument :
MSVOA_N
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TT180D1-20230313

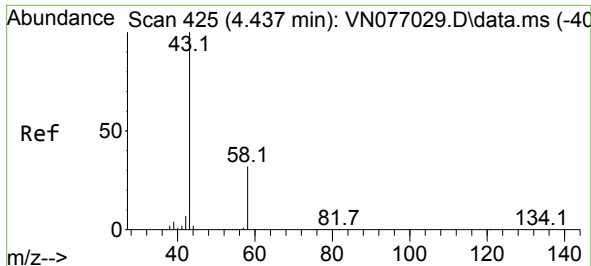
Tgt Ion:142 Resp: 1216
Ion Ratio Lower Upper
142 100
127 0.0 36.1 54.1#
141 0.0 10.8 16.2#



#12
1,1-Dichloroethene
Concen: 2.275 ug/l
RT: 4.354 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

Tgt Ion: 96 Resp: 10275
Ion Ratio Lower Upper
96 100
61 164.6 133.8 200.8
98 53.0 48.6 72.8

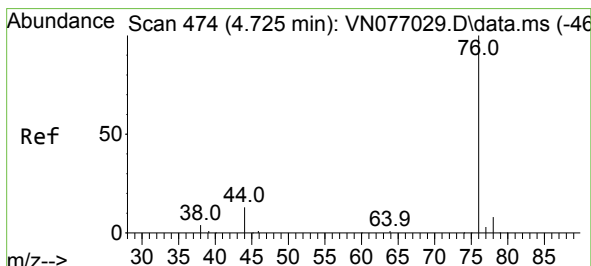
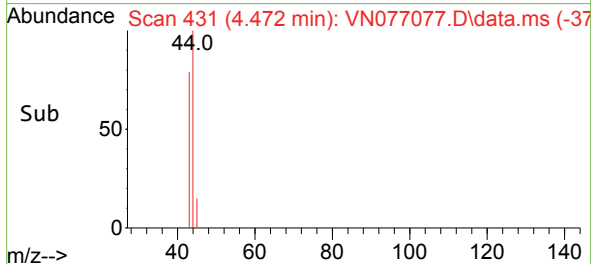
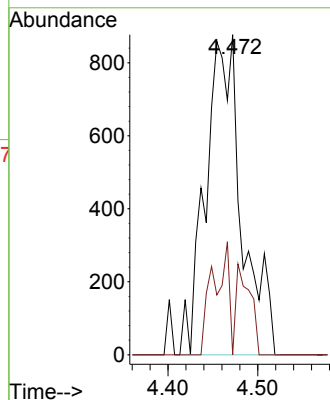
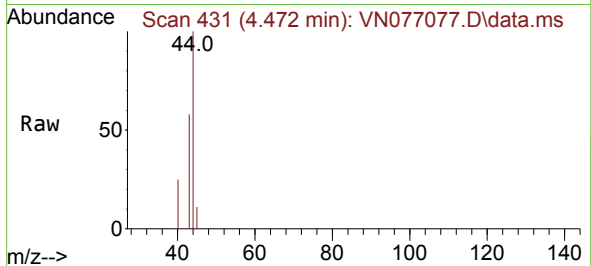




#16
Acetone
Concen: 0.928 ug/l
RT: 4.472 min Scan# 41
Delta R.T. 0.035 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

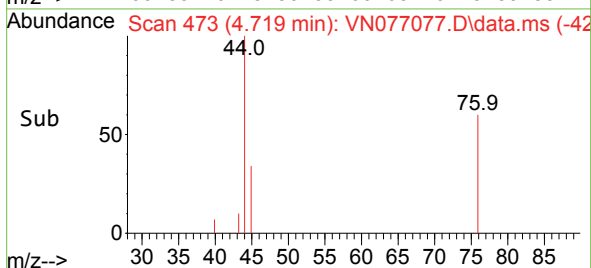
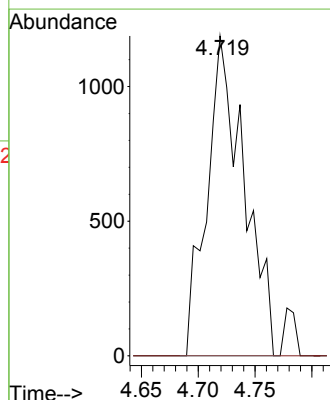
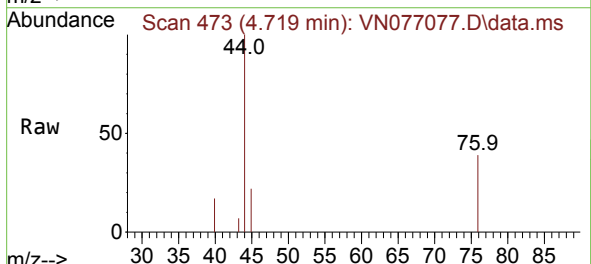
Instrument :
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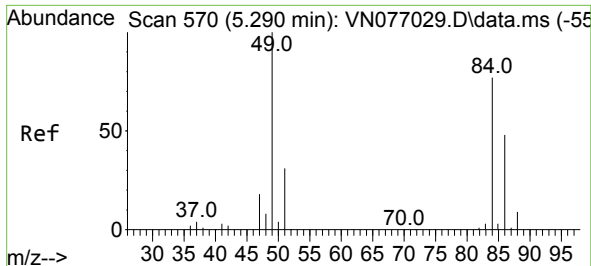
Tgt Ion: 43 Resp: 2456
Ion Ratio Lower Upper
43 100
58 0.0 25.4 38.0#



#17
Carbon Disulfide
Concen: 0.205 ug/l
RT: 4.719 min Scan# 473
Delta R.T. -0.006 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

Tgt Ion: 76 Resp: 2698
Ion Ratio Lower Upper
76 100
78 0.0 6.6 10.0#

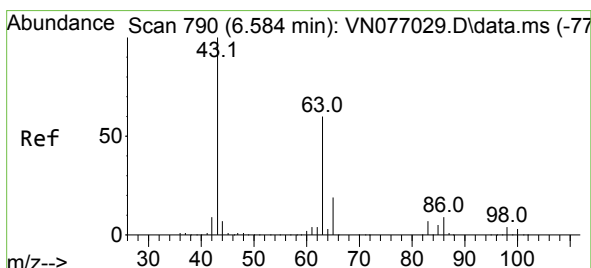
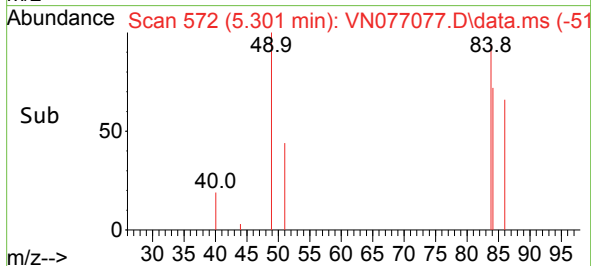
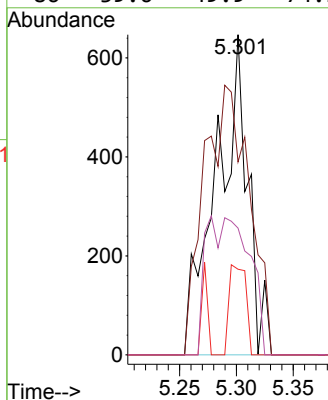
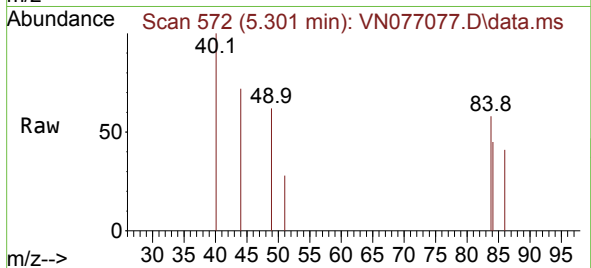




#20
Methylene Chloride
Concen: 0.218 ug/l
RT: 5.301 min Scan# 51
Delta R.T. 0.011 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

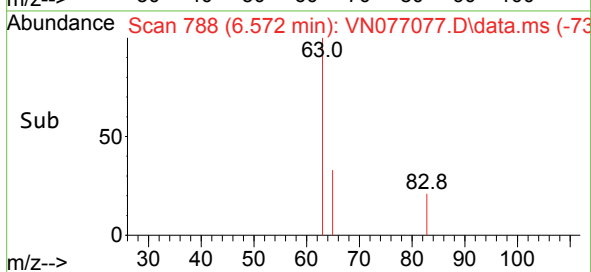
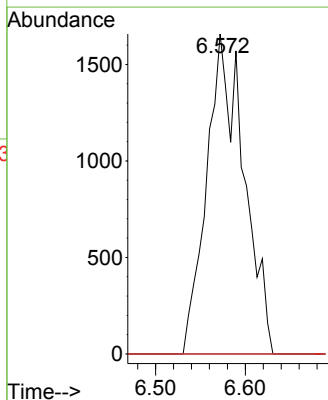
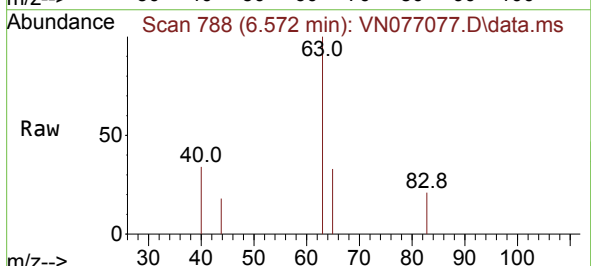
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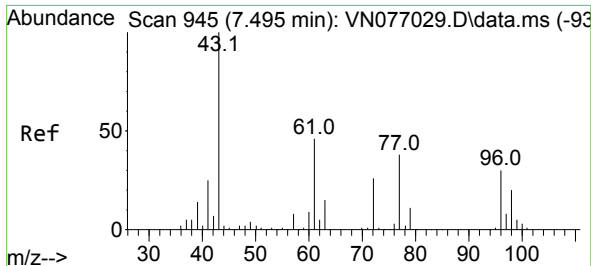
Tgt Ion:	84	Resp:	1253
Ion	Ratio	Lower	Upper
84	100		
49	60.3	103.8	155.6#
51	26.7	32.3	48.5#
86	39.6	49.9	74.9#



#24
1,1-Dichloroethane
Concen: 0.460 ug/l
RT: 6.572 min Scan# 788
Delta R.T. -0.012 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

Tgt Ion:	63	Resp:	4766
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.1	9.4#
100	0.0	2.1	6.3#

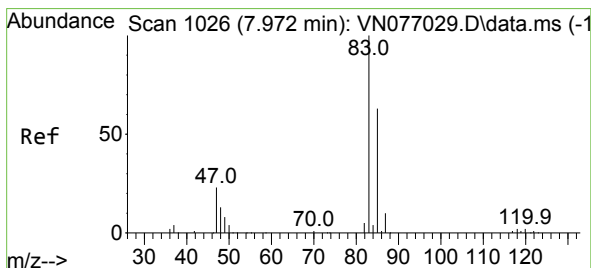
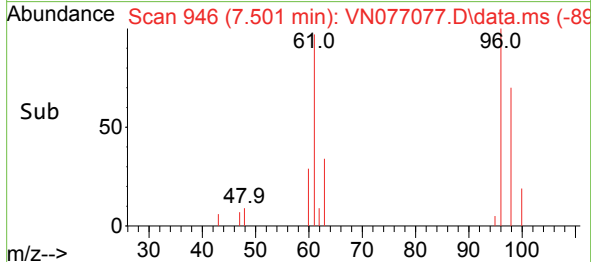
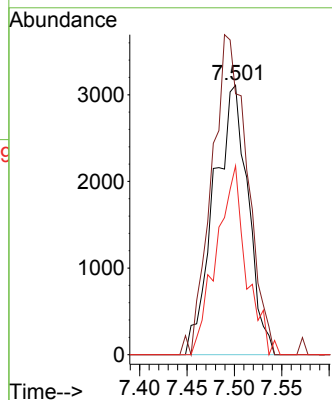
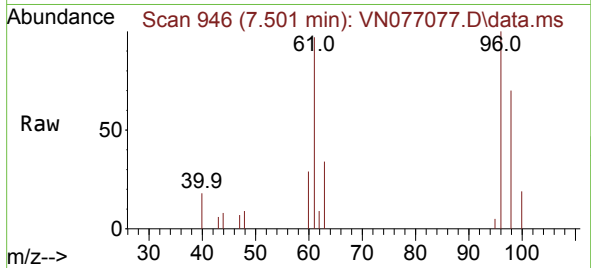




#27
cis-1,2-Dichloroethene
Concen: 1.388 ug/l
RT: 7.501 min Scan# 945
Delta R.T. 0.006 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

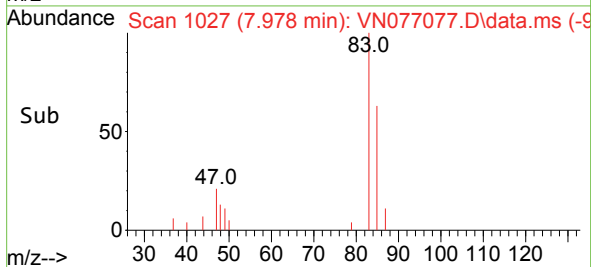
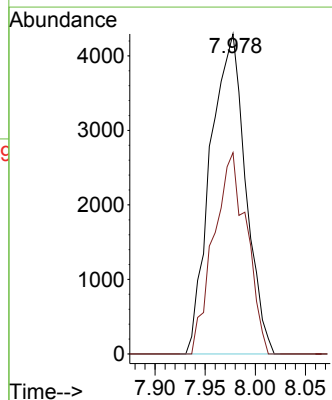
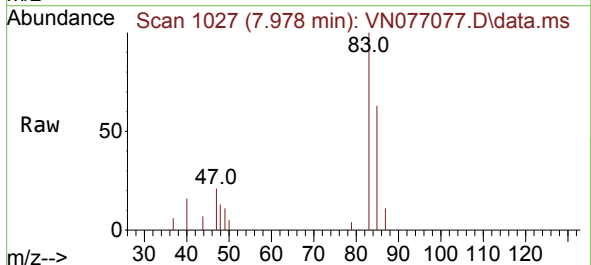
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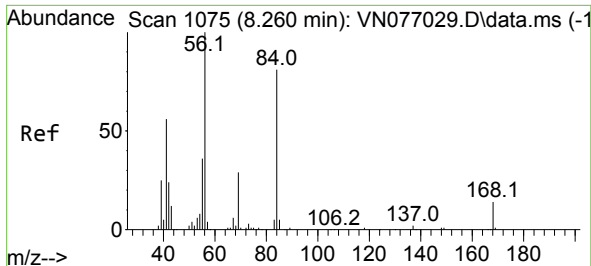
Tgt Ion: 96 Resp: 7780
Ion Ratio Lower Upper
96 100
61 123.7 0.0 315.4
98 61.6 0.0 128.6



#30
Chloroform
Concen: 1.039 ug/l
RT: 7.978 min Scan# 1027
Delta R.T. 0.006 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

Tgt Ion: 83 Resp: 10455
Ion Ratio Lower Upper
83 100
85 62.9 50.6 75.8

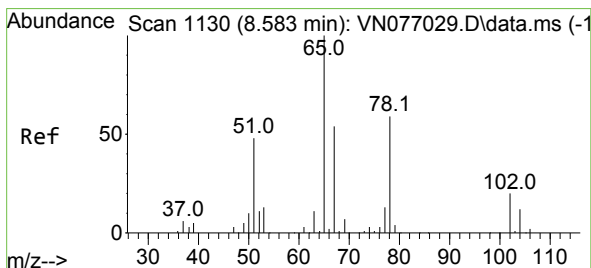
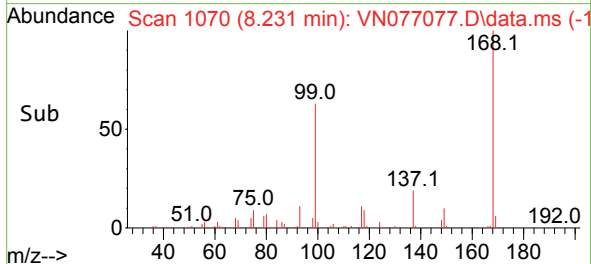
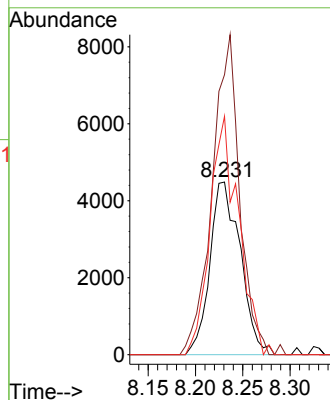
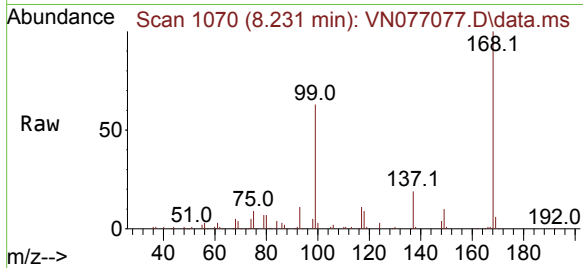




#31
Cyclohexane
Concen: 1.032 ug/l
RT: 8.231 min Scan# 1075
Delta R.T. -0.029 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

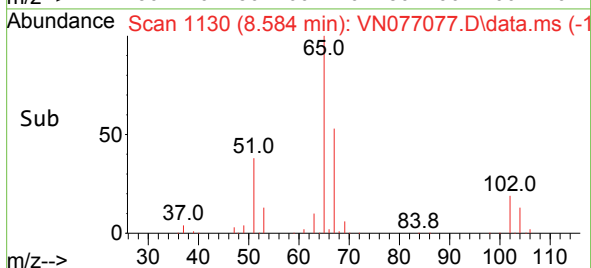
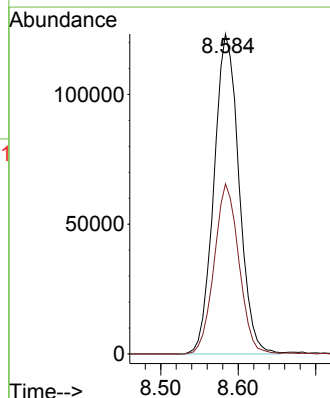
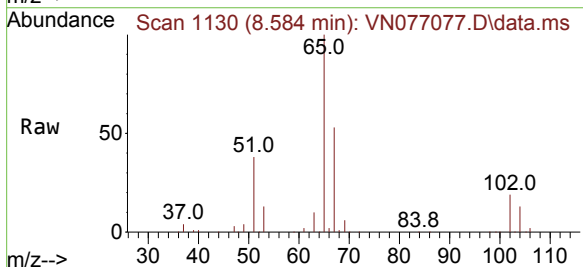
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TT180D1-20230313

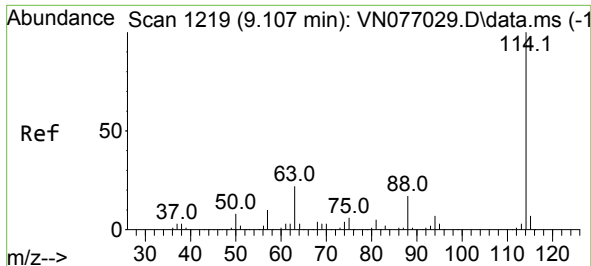
Tgt Ion: 56 Resp: 10033
Ion Ratio Lower Upper
56 100
69 162.1 22.8 34.2#
84 138.0 64.7 97.1#



#33
1,2-Dichloroethane-d4
Concen: 46.620 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. 0.001 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

Tgt Ion: 65 Resp: 277035
Ion Ratio Lower Upper
65 100
67 52.5 0.0 105.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN077077.D

Acq: 20 Mar 2023 18:43

Instrument :

MSVOA_N

ClientSampleId :

TT180D1-20230313

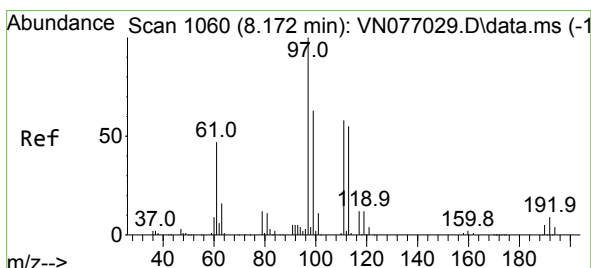
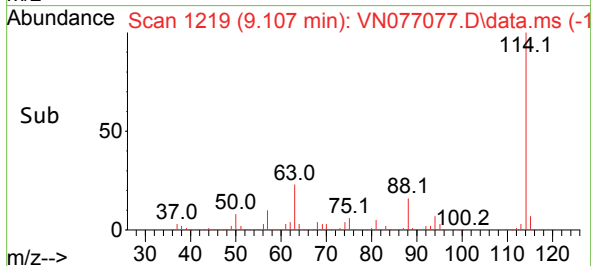
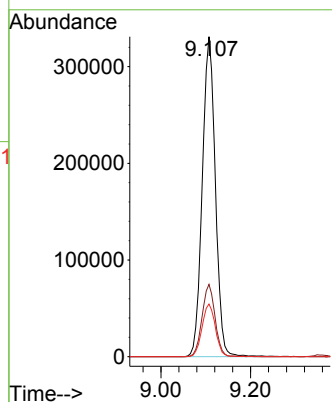
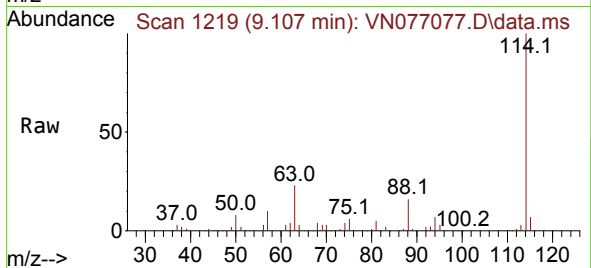
Tgt Ion:114 Resp: 669073

Ion Ratio Lower Upper

114 100

63 22.6 0.0 44.6

88 16.4 0.0 33.8



#35

Dibromofluoromethane

Concen: 46.080 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. 0.000 min

Lab File: VN077077.D

Acq: 20 Mar 2023 18:43

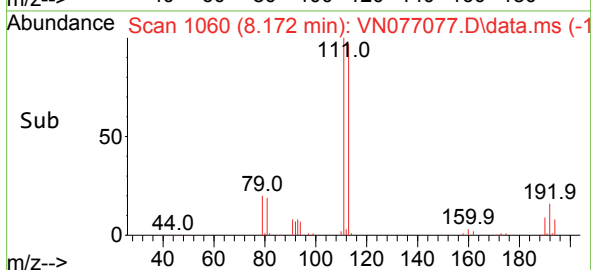
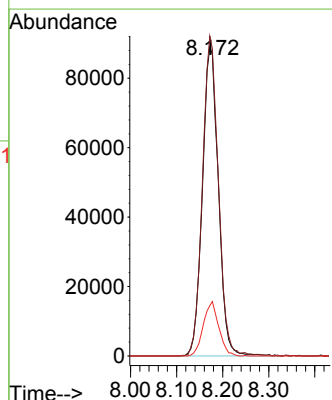
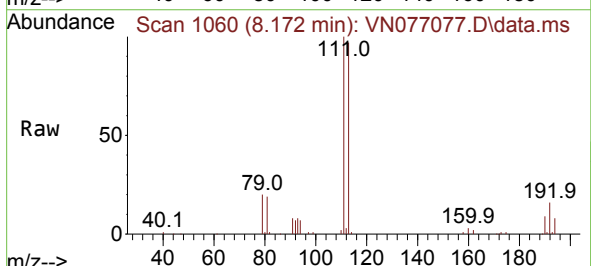
Tgt Ion:113 Resp: 215911

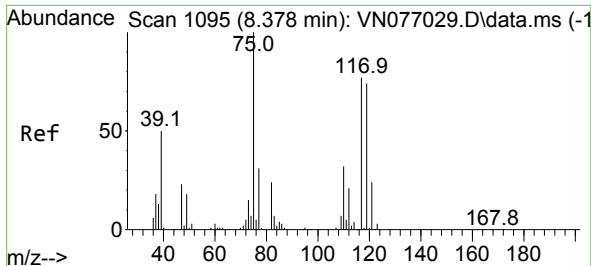
Ion Ratio Lower Upper

113 100

111 103.1 82.2 123.2

192 17.0 13.0 19.6





#36

1,1-Dichloropropene

Concen: 4.554 ug/l

RT: 8.225 min Scan# 1069

Delta R.T. -0.153 min

Lab File: VN077077.D

Acq: 20 Mar 2023 18:43

Instrument :

MSVOA_N

ClientSampleId :

TT180D1-20230313

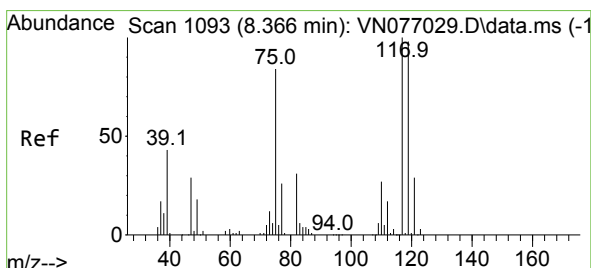
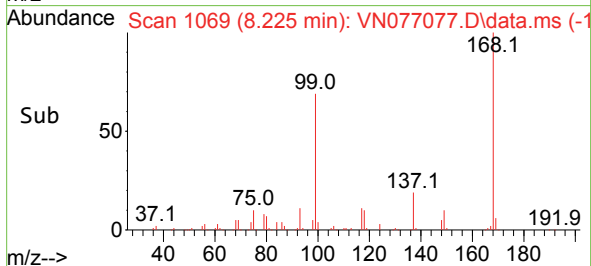
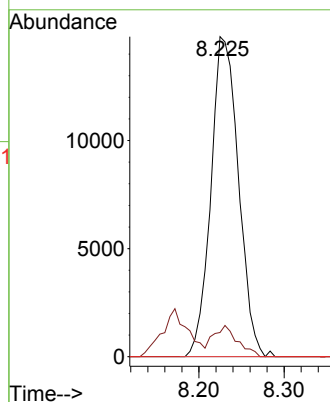
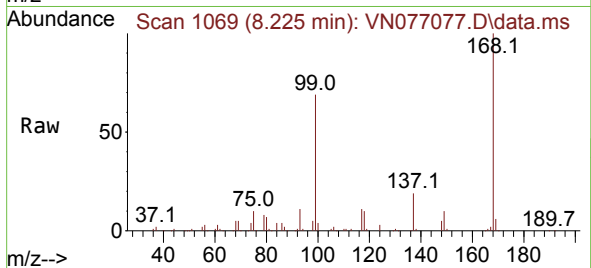
Tgt Ion: 75 Resp: 33328

Ion Ratio Lower Upper

75 100

110 8.6 15.9 47.7#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 0.349 ug/l

RT: 8.366 min Scan# 1093

Delta R.T. 0.000 min

Lab File: VN077077.D

Acq: 20 Mar 2023 18:43

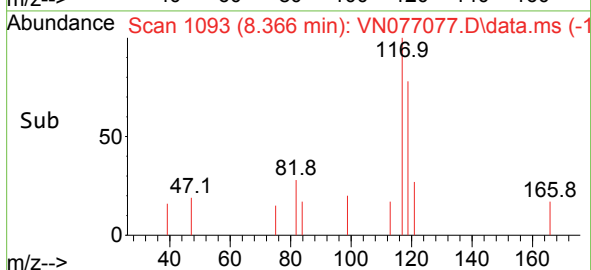
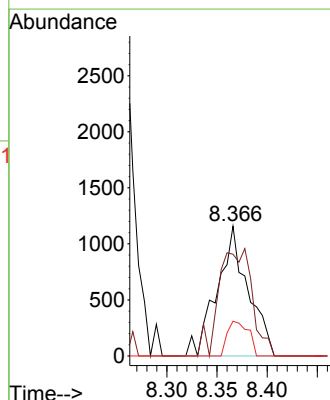
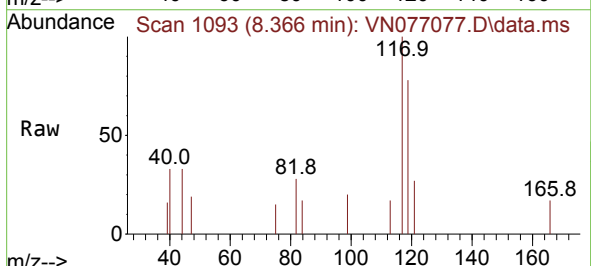
Tgt Ion: 117 Resp: 2491

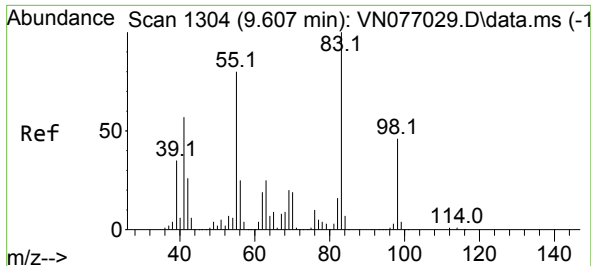
Ion Ratio Lower Upper

117 100

119 78.4 78.2 117.2

121 26.7 23.2 34.8

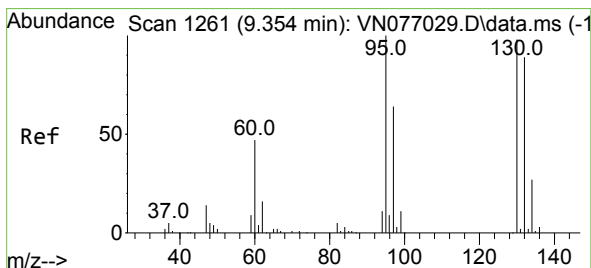
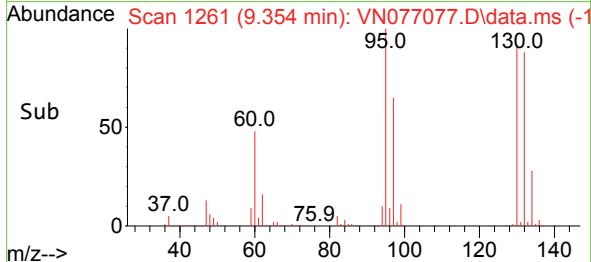
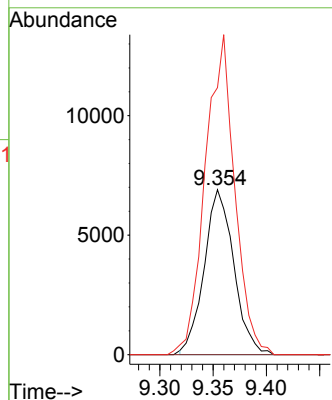
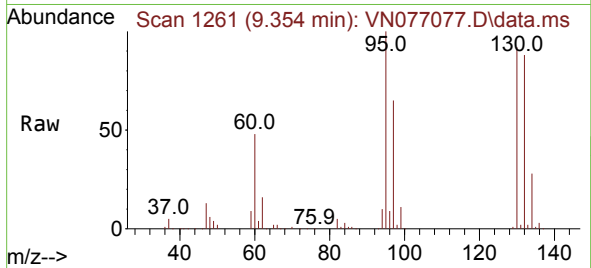




#39
Methylcyclohexane
Concen: 1.559 ug/l
RT: 9.354 min Scan# 11
Delta R.T. -0.253 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

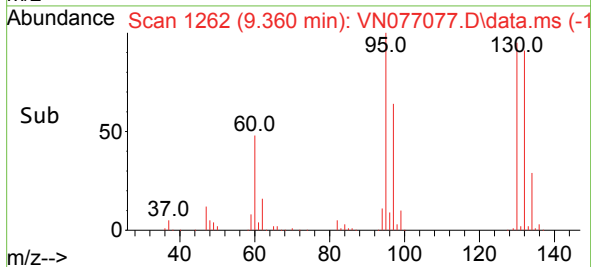
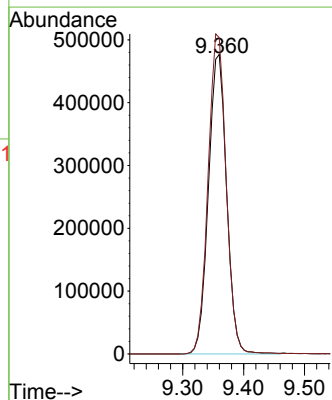
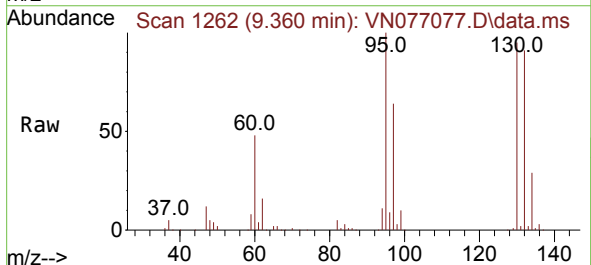
Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313

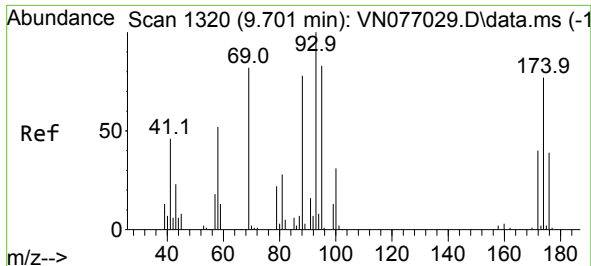
Tgt Ion: 83 Resp: 13357
Ion Ratio Lower Upper
83 100
55 0.0 63.8 95.8#
98 162.0 37.1 55.7#



#44
Trichloroethene
Concen: 193.891 ug/l
RT: 9.360 min Scan# 1262
Delta R.T. 0.006 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

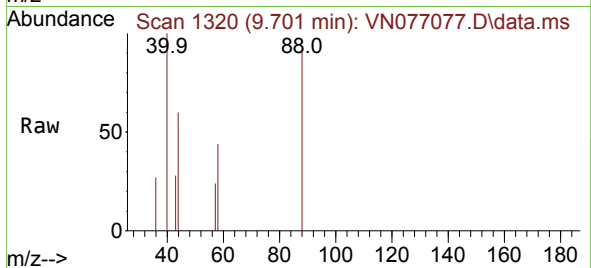
Tgt Ion:130 Resp: 988493
Ion Ratio Lower Upper
130 100
95 105.6 0.0 204.4



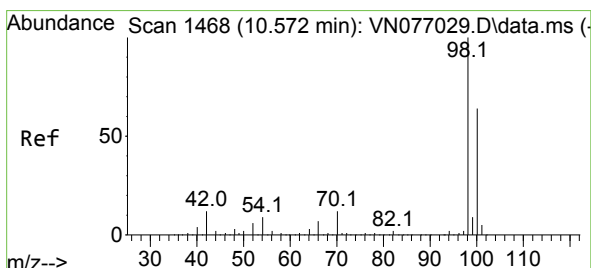
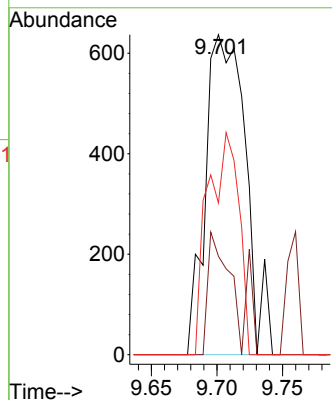
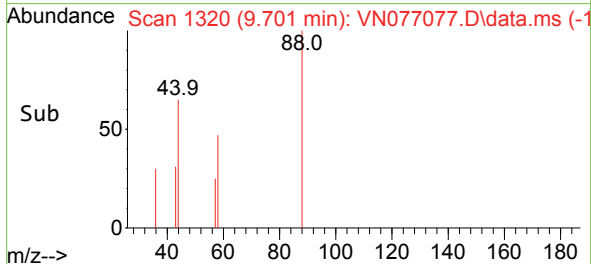


#49
1,4-Dioxane
Concen: 13.556 ug/l
RT: 9.701 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313

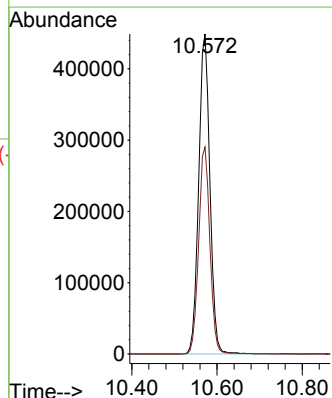
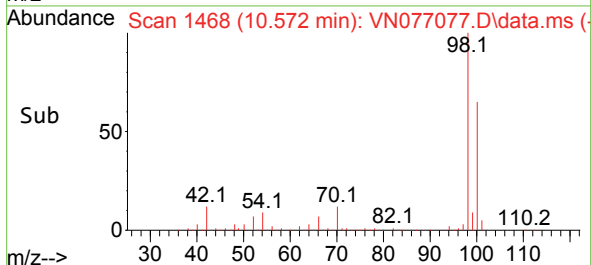
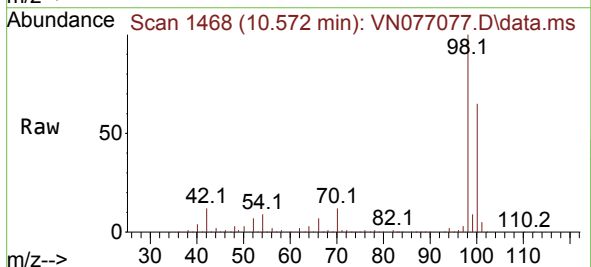


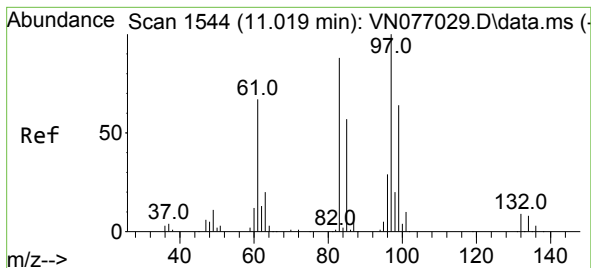
Tgt Ion: 88 Resp: 1354
Ion Ratio Lower Upper
88 100
43 20.0 22.2 33.2#
58 53.5 60.8 91.2#



#50
Toluene-d8
Concen: 48.882 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

Tgt Ion: 98 Resp: 818162
Ion Ratio Lower Upper
98 100
100 64.7 51.6 77.4





#55

1,1,2-Trichloroethane

Concen: 0.945 ug/l

RT: 11.025 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN077077.D

Acq: 20 Mar 2023 18:43

Instrument :

MSVOA_N

ClientSampleId :

TT180D1-20230313

Tgt Ion: 97 Resp: 4940

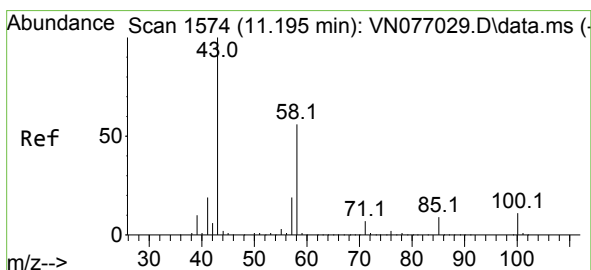
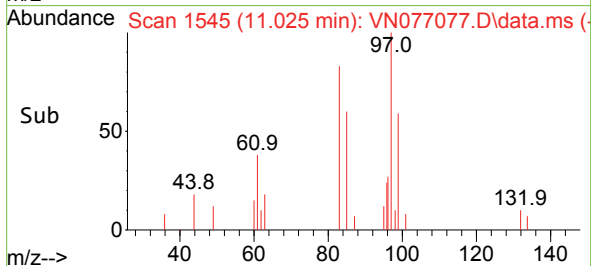
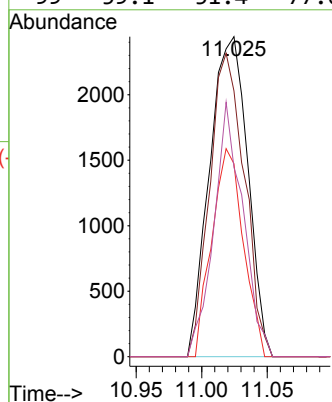
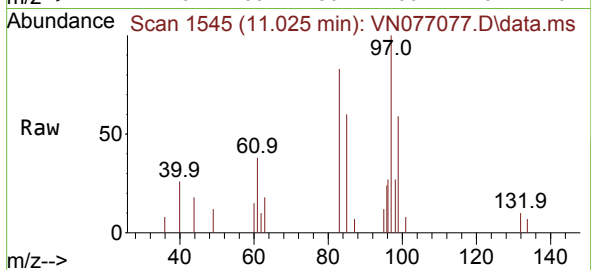
Ion Ratio Lower Upper

97 100

83 83.1 70.5 105.7

85 60.3 45.4 68.2

99 59.1 51.4 77.0



#59

2-Hexanone

Concen: 0.237 ug/l

RT: 11.195 min Scan# 1574

Delta R.T. 0.000 min

Lab File: VN077077.D

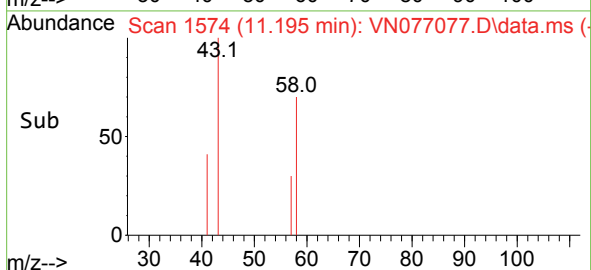
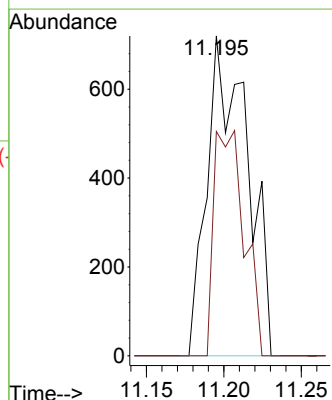
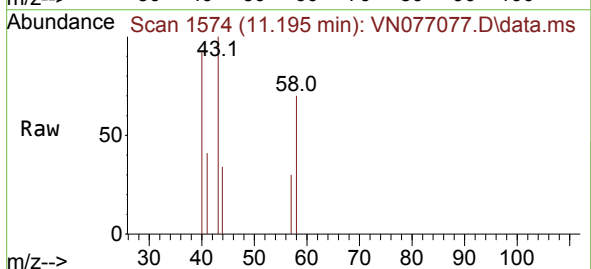
Acq: 20 Mar 2023 18:43

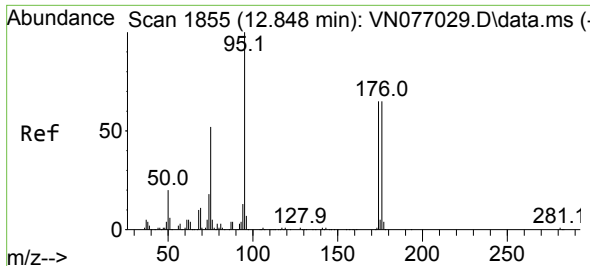
Tgt Ion: 43 Resp: 1307

Ion Ratio Lower Upper

43 100

58 52.8 27.7 83.1

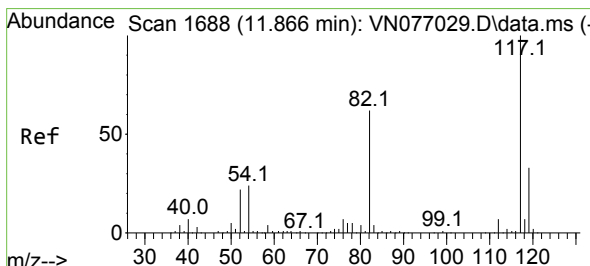
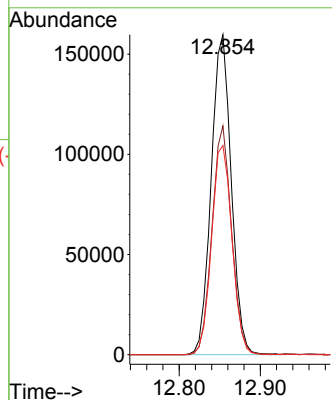
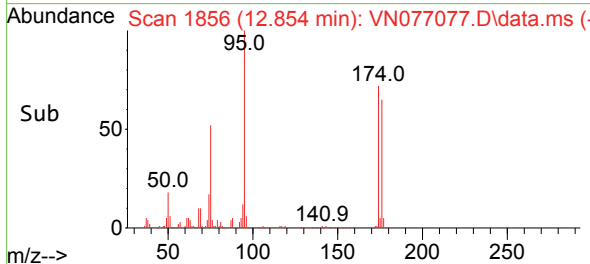
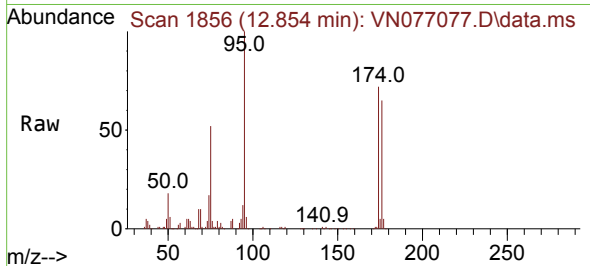




#62
4-Bromofluorobenzene
Concen: 46.365 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

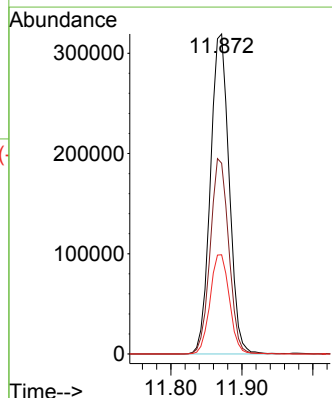
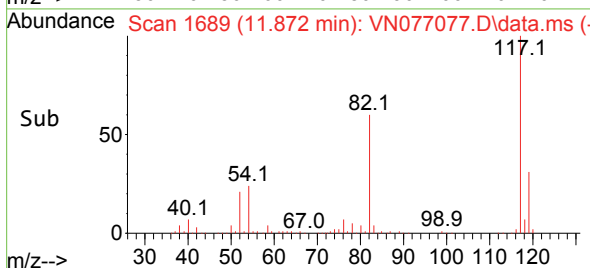
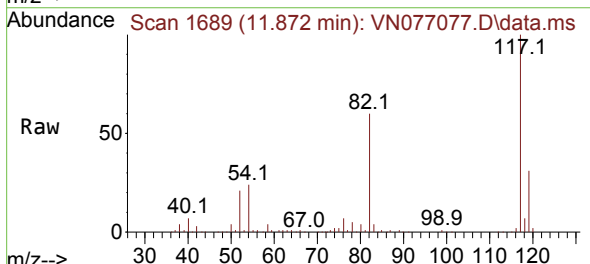
Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313

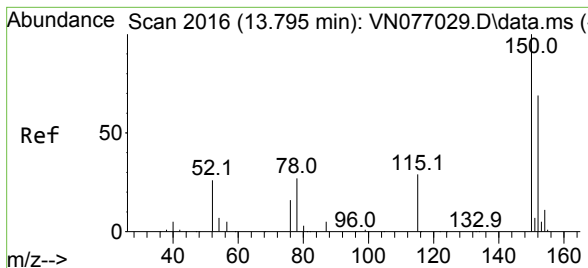
Tgt Ion: 95 Resp: 274224
Ion Ratio Lower Upper
95 100
174 69.9 0.0 136.6
176 66.5 0.0 130.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.872 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

Tgt Ion: 117 Resp: 584252
Ion Ratio Lower Upper
117 100
82 59.6 49.4 74.0
119 31.0 26.5 39.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN077077.D

Acq: 20 Mar 2023 18:43

Instrument :

MSVOA_N

ClientSampleId :

TT180D1-20230313

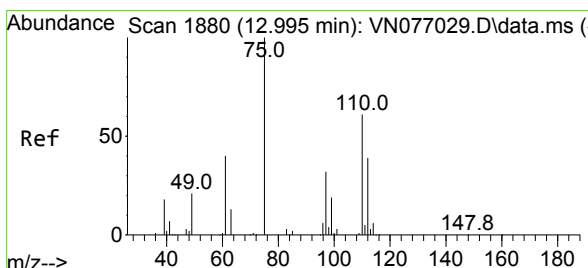
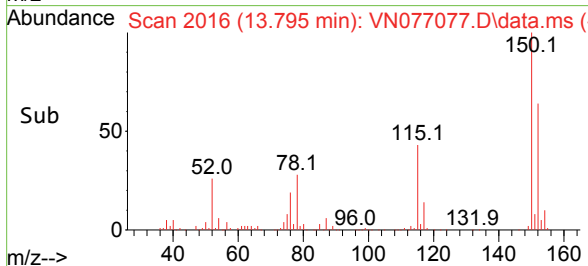
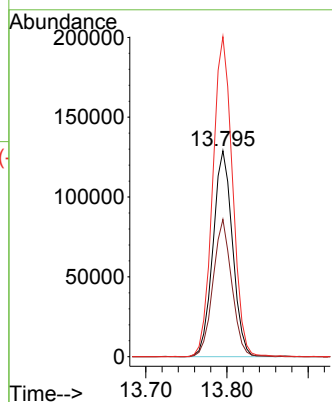
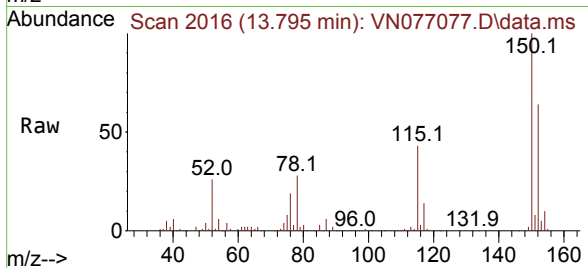
Tgt Ion:152 Resp: 215500

Ion Ratio Lower Upper

152 100

115 64.0 31.9 95.7

150 157.3 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 25.787 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN077077.D

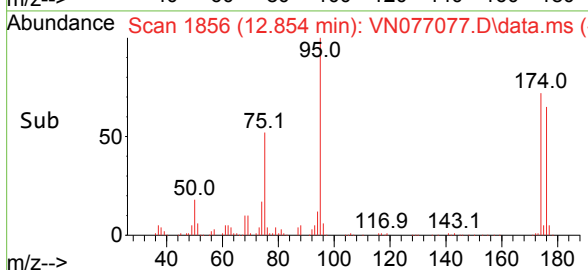
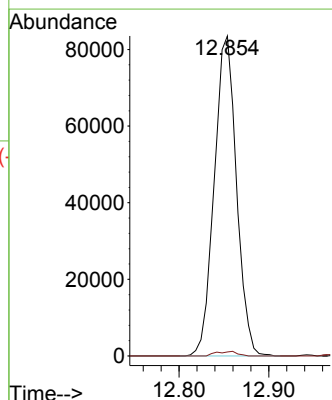
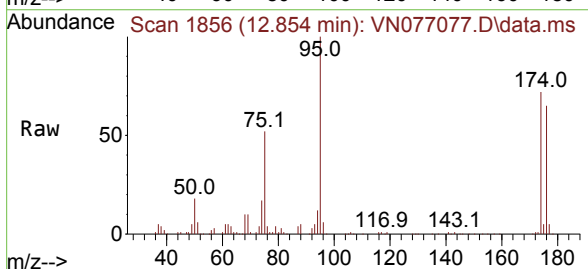
Acq: 20 Mar 2023 18:43

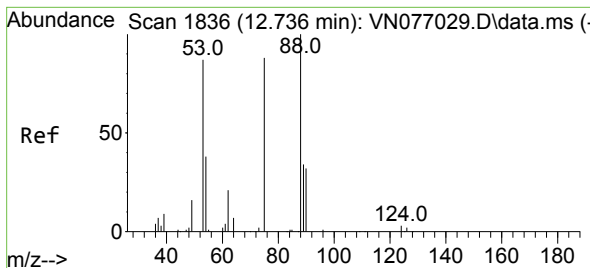
Tgt Ion: 75 Resp: 143742

Ion Ratio Lower Upper

75 100

77 1.3 107.3 322.0#

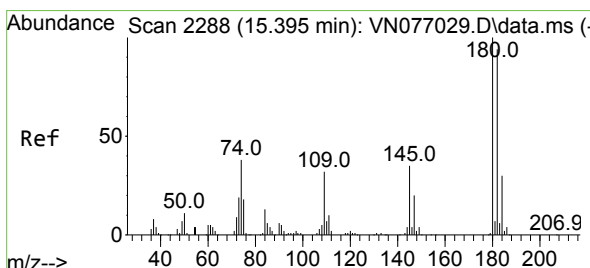
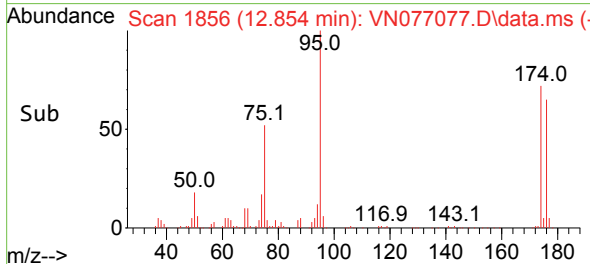
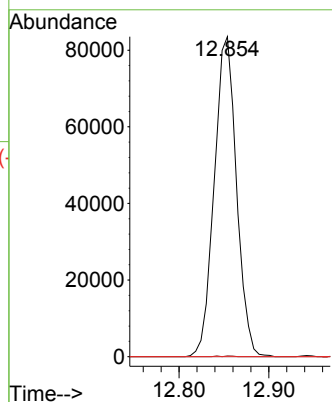
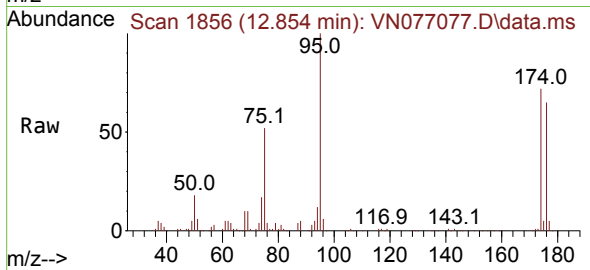




#81
trans-1,4-Dichloro-2-butene
Concen: 70.980 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

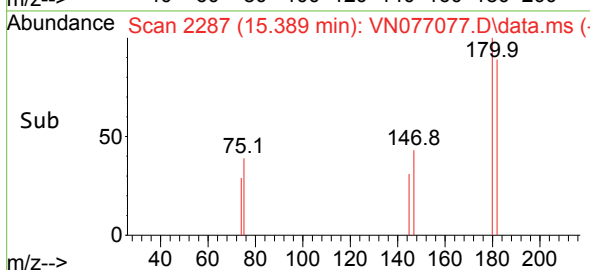
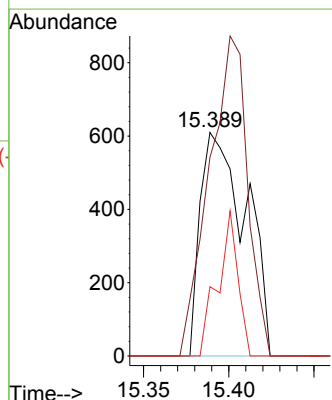
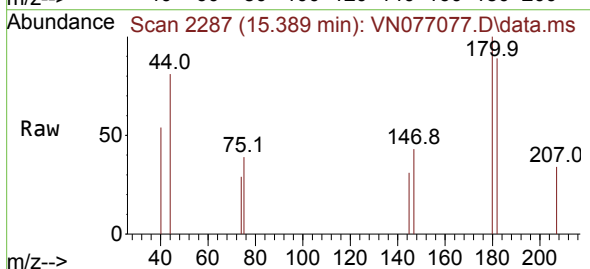
Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313

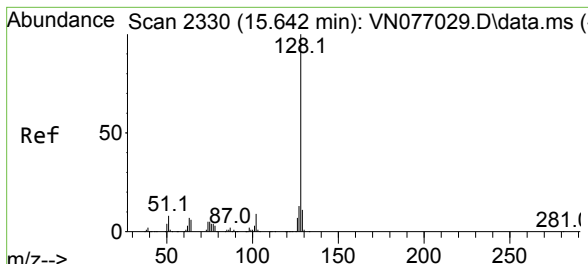
Tgt Ion: 75 Resp: 143742
Ion Ratio Lower Upper
75 100
53 0.1 80.8 121.2#
89 0.0 34.2 51.4#



#93
1,2,4-Trichlorobenzene
Concen: 0.308 ug/l
RT: 15.389 min Scan# 2287
Delta R.T. -0.006 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

Tgt Ion: 180 Resp: 1134
Ion Ratio Lower Upper
180 100
182 120.3 47.3 141.9
145 28.8 16.9 50.7

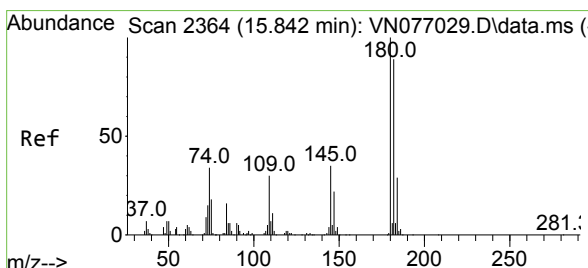
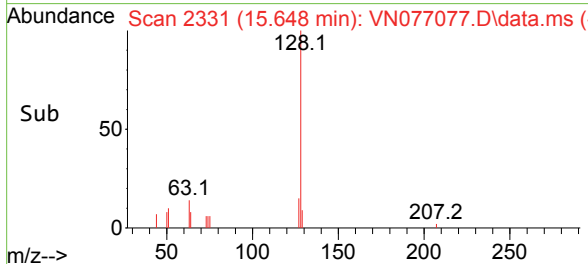
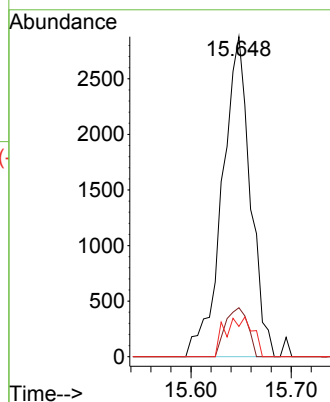
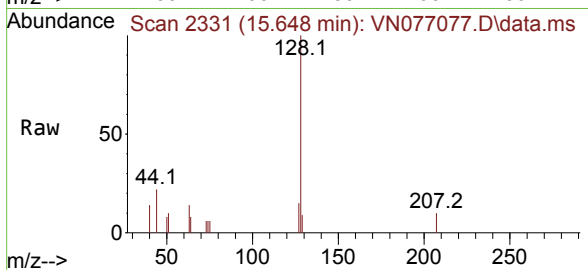




#95
Naphthalene
Concen: 2.289 ug/l
RT: 15.648 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313

Tgt Ion:	128	Resp:	5610
Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.0	15.0
129	12.1	8.6	13.0



#96
1,2,3-Trichlorobenzene
Concen: 0.383 ug/l
RT: 15.842 min Scan# 2364
Delta R.T. -0.000 min
Lab File: VN077077.D
Acq: 20 Mar 2023 18:43

Tgt Ion:	180	Resp:	1417
Ion	Ratio	Lower	Upper
180	100		
182	87.2	47.4	142.2
145	9.0	17.9	53.8#

