

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032123\
 Data File : VN077087.D
 Acq On : 21 Mar 2023 13:52
 Operator : JC\MD
 Sample : 01941-04DL 4X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT180D1-20230313DL

Quant Time: Mar 21 23:16:09 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

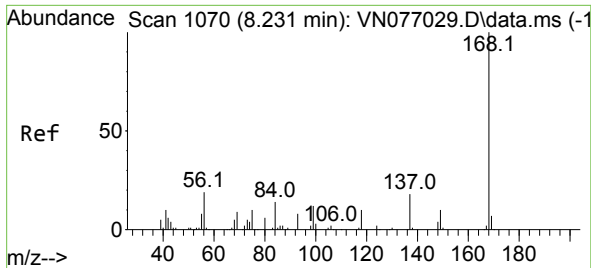
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	400950	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	728016	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	636741	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	234653	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	296629	46.316	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.640%		
35) Dibromofluoromethane	8.172	113	228931	44.903	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	89.800%		
50) Toluene-d8	10.572	98	882503	48.457	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.920%		
62) 4-Bromofluorobenzene	12.854	95	286938	44.587	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	89.180%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	330	Below Cal	#	42
5) Bromomethane	2.972	94	592	0.201	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.378	101	2187	0.411	ug/l #	64
10) Methyl Iodide	4.607	142	1421	0.237	ug/l #	87
11) Tert butyl alcohol	5.531	59	431	0.462	ug/l #	72
12) 1,1-Dichloroethene	4.343	96	2382	0.489	ug/l #	52
13) Acrolein	4.195	56	425	0.368	ug/l #	44
16) Acetone	4.437	43	753	0.264	ug/l #	43
20) Methylene Chloride	5.290	84	1418	0.229	ug/l	94
25) 2-Butanone	7.513	43	1467	0.351	ug/l #	49
27) cis-1,2-Dichloroethene	7.489	96	1740	0.288	ug/l	82
30) Chloroform	7.972	83	2524	0.233	ug/l	98
31) Cyclohexane	8.236	56	9990	0.953	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	36345	4.564	ug/l #	52
38) Carbon Tetrachloride	8.230	117	42986	5.542	ug/l #	15
39) Methylcyclohexane	9.360	83	3406	0.365	ug/l #	1
44) Trichloroethene	9.354	130	230808	41.607	ug/l	94
49) 1,4-Dioxane	9.701	88	175	1.610	ug/l #	57
55) 1,1,2-Trichloroethane	11.024	97	1252	0.220	ug/l #	83
59) 2-Hexanone	11.201	43	2794	0.465	ug/l	94
76) 1,2,3-Trichloropropane	12.848	75	150694	24.828	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.848	75	150694	68.339	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.389	180	2266	0.565	ug/l	96
95) Naphthalene	15.642	128	8000	2.405	ug/l	98
96) 1,2,3-Trichlorobenzene	15.848	180	2338	0.581	ug/l	80

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

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QLast Update : Mon Mar 20 08:50:30 2023
Response via : Initial Calibration

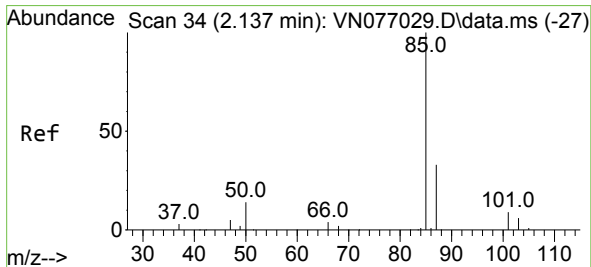
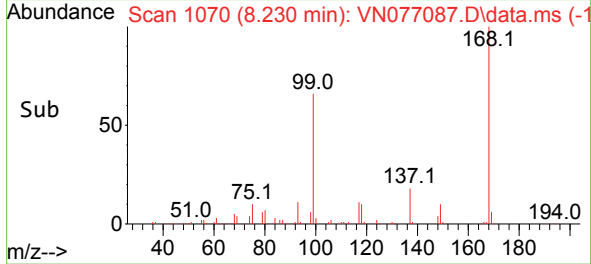
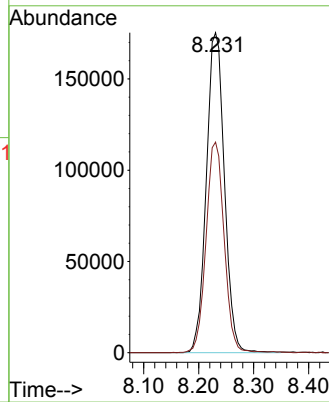
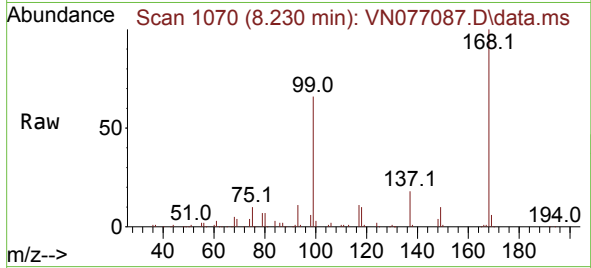




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

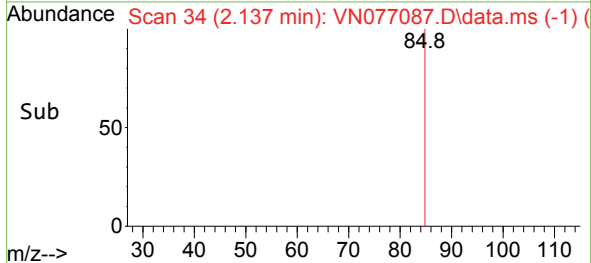
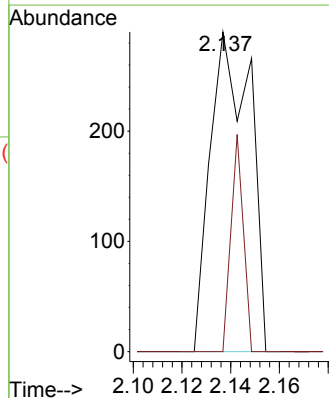
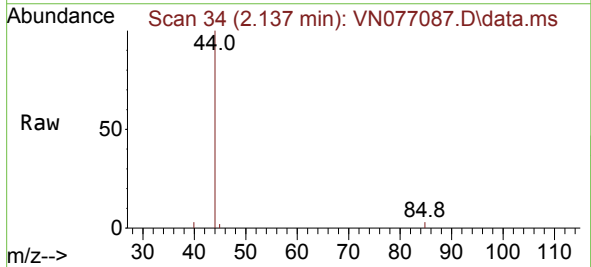
Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313DL

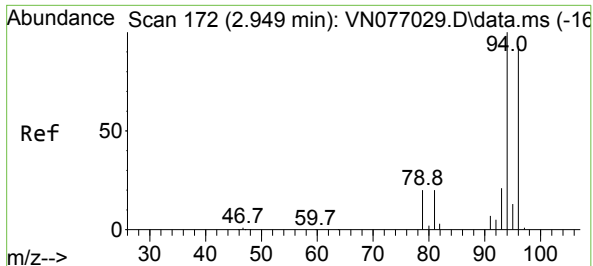
Tgt Ion:168 Resp: 400950
Ion Ratio Lower Upper
168 100
99 65.7 53.9 80.9



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 2.137 min Scan# 34
Delta R.T. -0.000 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

Tgt Ion: 85 Resp: 330
Ion Ratio Lower Upper
85 100
87 0.0 16.4 49.2#

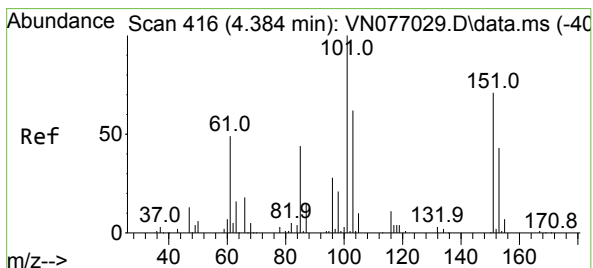
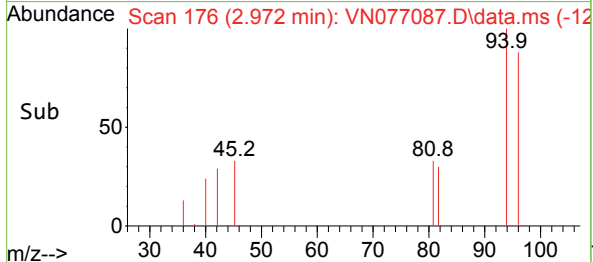
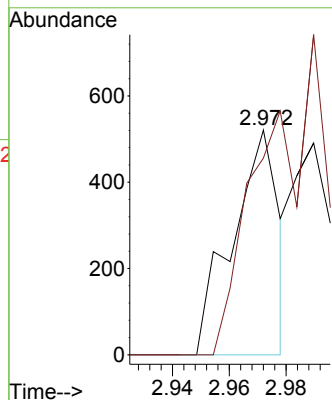
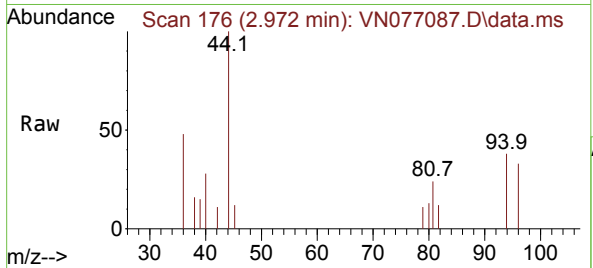




#5
Bromomethane
Concen: 0.201 ug/l
RT: 2.972 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

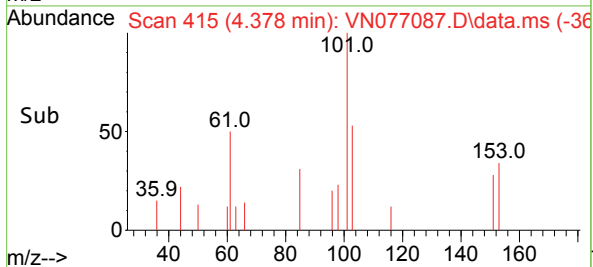
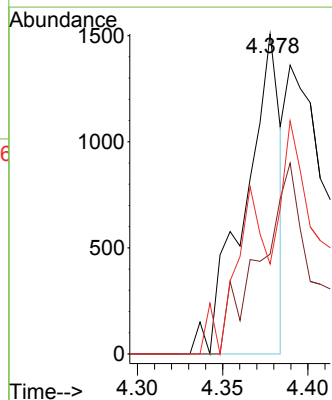
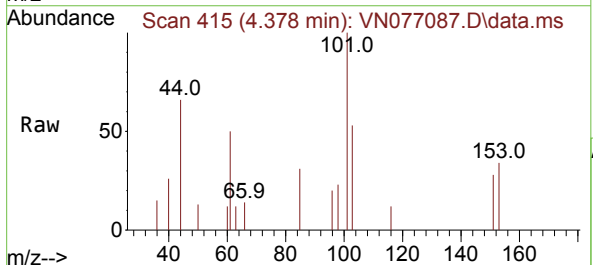
Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313DL

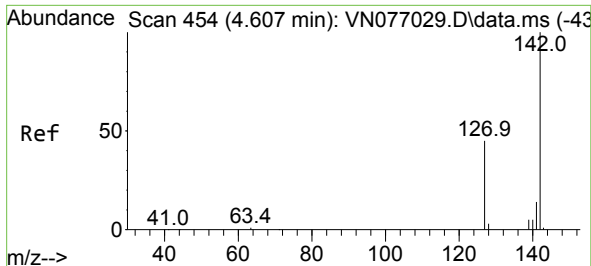
Tgt Ion: 94 Resp: 592
Ion Ratio Lower Upper
94 100
96 87.5 74.1 111.1



#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.411 ug/l
RT: 4.378 min Scan# 415
Delta R.T. -0.006 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

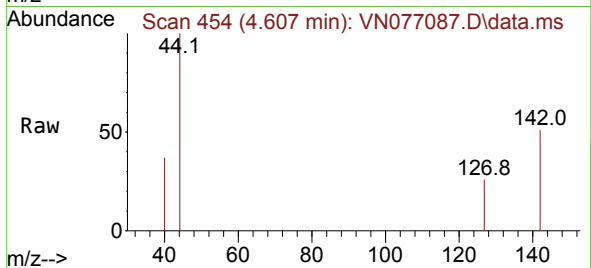
Tgt Ion: 101 Resp: 2187
Ion Ratio Lower Upper
101 100
85 89.4 36.6 55.0#
151 85.4 56.9 85.3#



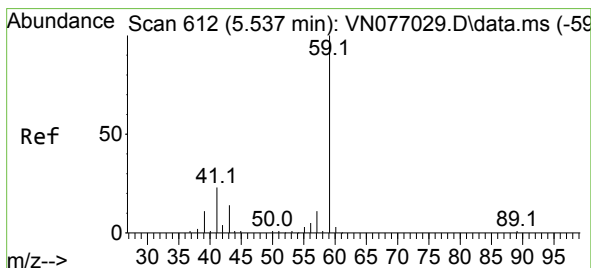
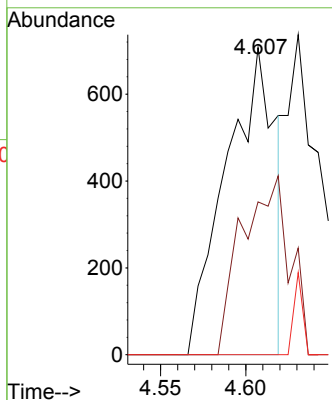
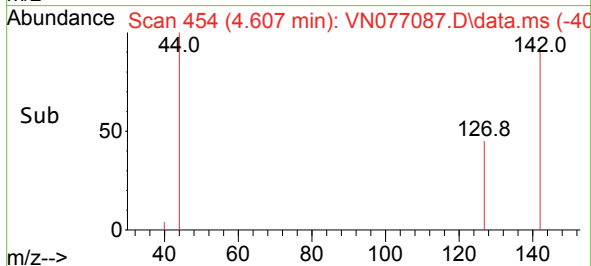


#10
Methyl Iodide
Concen: 0.237 ug/l
RT: 4.607 min Scan# 411
Delta R.T. 0.000 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313DL

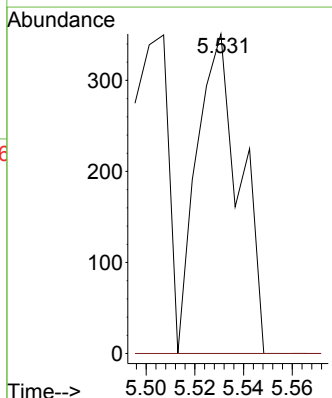
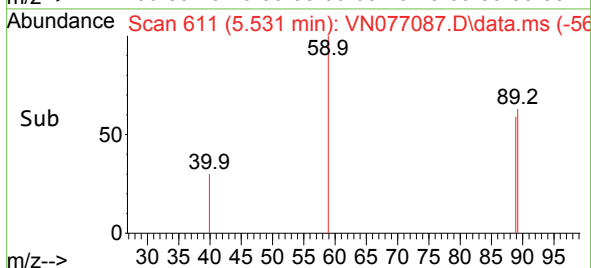
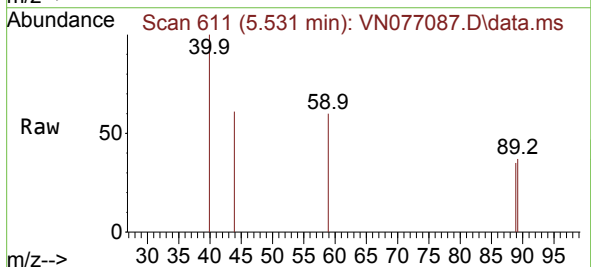


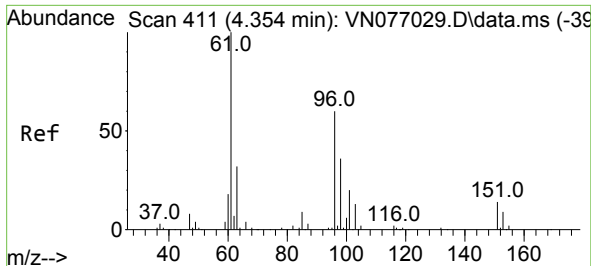
Tgt Ion:142 Resp: 1421
Ion Ratio Lower Upper
142 100
127 49.8 36.1 54.1
141 0.0 10.8 16.2#



#11
Tert butyl alcohol
Concen: 0.462 ug/l
RT: 5.531 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

Tgt Ion: 59 Resp: 431
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#





#12

1,1-Dichloroethene

Concen: 0.489 ug/l

RT: 4.343 min Scan# 409

Delta R.T. -0.011 min

Lab File: VN077087.D

Acq: 21 Mar 2023 13:52

Instrument :

MSVOA_N

ClientSampleId :

TT180D1-20230313DL

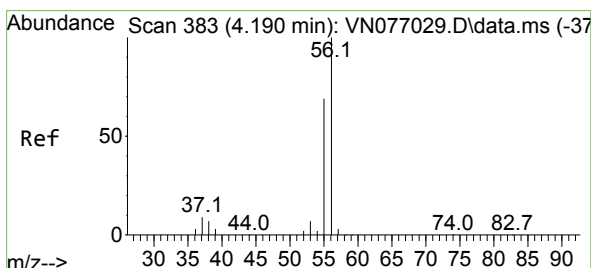
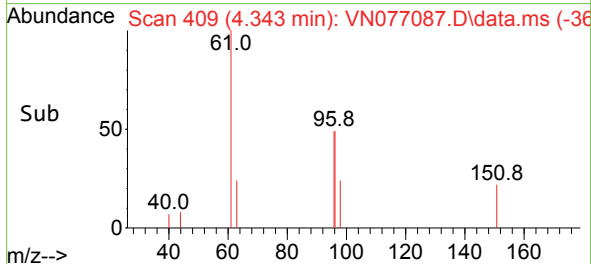
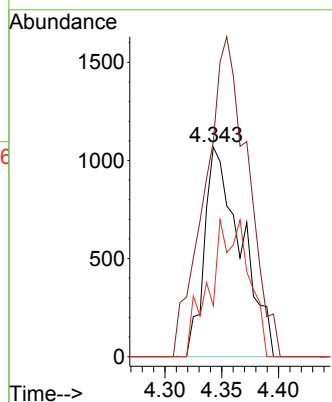
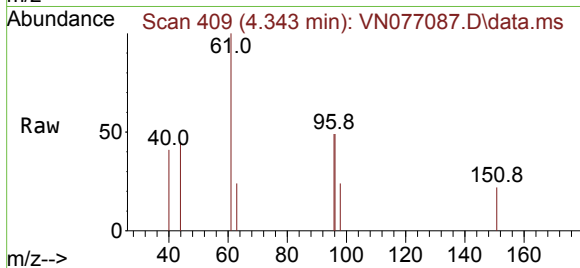
Tgt Ion: 96 Resp: 2382

Ion Ratio Lower Upper

96 100

61 102.7 133.8 200.8#

98 24.3 48.6 72.8#



#13

Acrolein

Concen: 0.368 ug/l

RT: 4.195 min Scan# 384

Delta R.T. 0.005 min

Lab File: VN077087.D

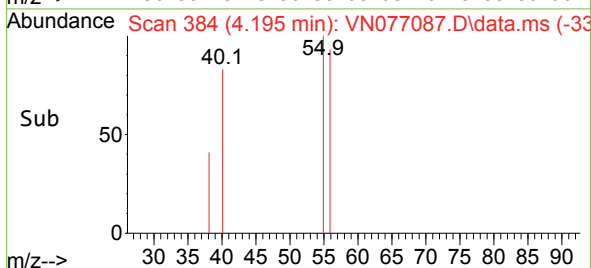
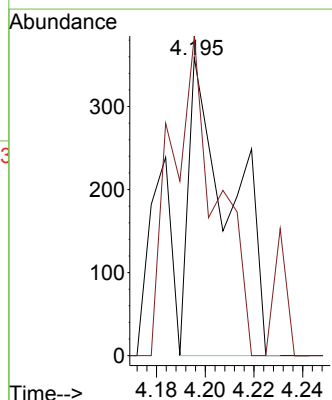
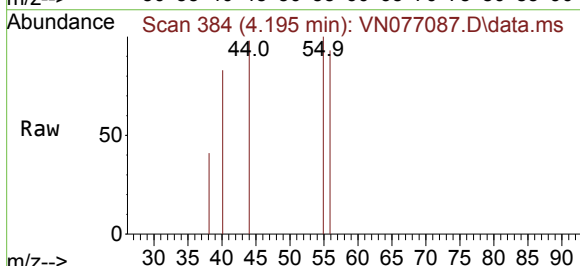
Acq: 21 Mar 2023 13:52

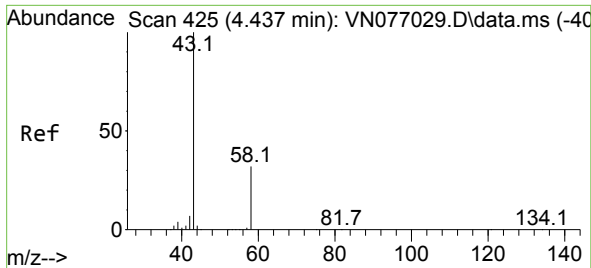
Tgt Ion: 56 Resp: 425

Ion Ratio Lower Upper

56 100

55 117.4 57.0 85.6#





#16

Acetone

Concen: 0.264 ug/l

RT: 4.437 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN077087.D

Acq: 21 Mar 2023 13:52

Instrument :

MSVOA_N

ClientSampleId :

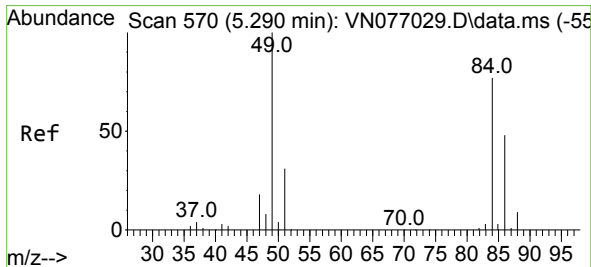
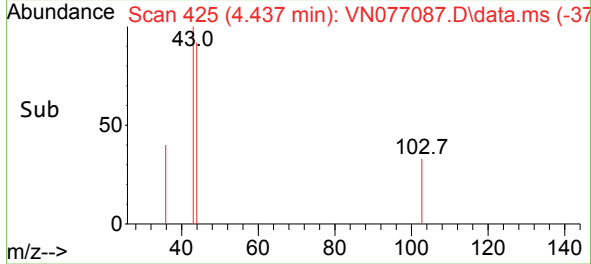
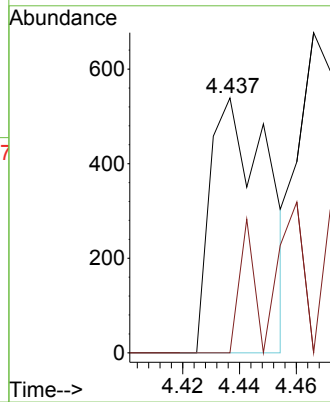
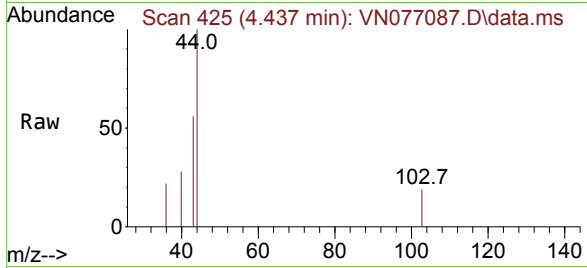
TT180D1-20230313DL

Tgt Ion: 43 Resp: 753

Ion Ratio Lower Upper

43 100

58 0.0 25.4 38.0#



#20

Methylene Chloride

Concen: 0.229 ug/l

RT: 5.290 min Scan# 570

Delta R.T. -0.000 min

Lab File: VN077087.D

Acq: 21 Mar 2023 13:52

Tgt Ion: 84 Resp: 1418

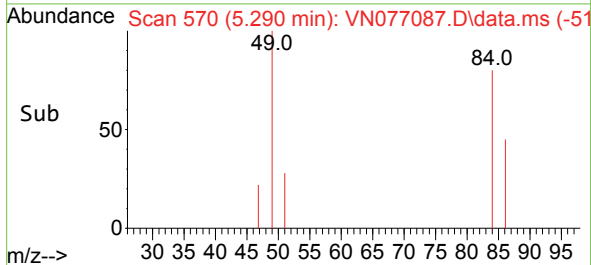
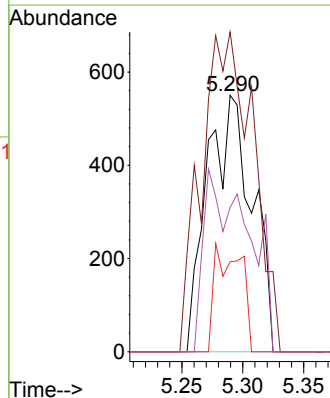
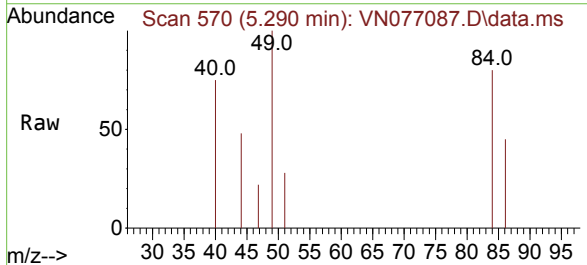
Ion Ratio Lower Upper

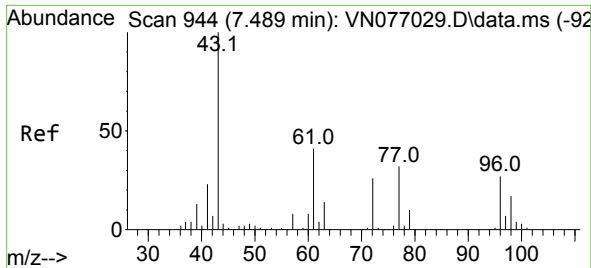
84 100

49 124.7 103.8 155.6

51 35.1 32.3 48.5

86 56.4 49.9 74.9

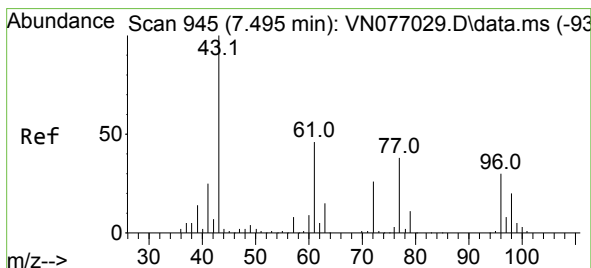
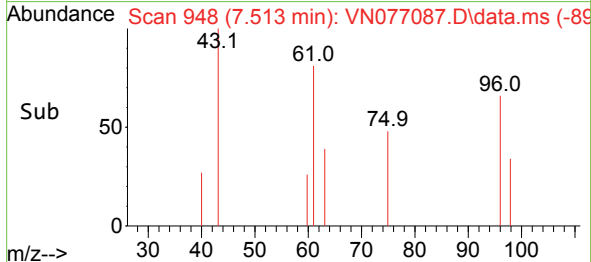
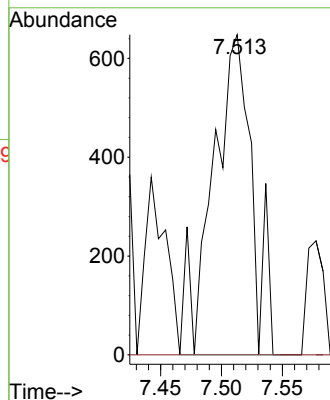
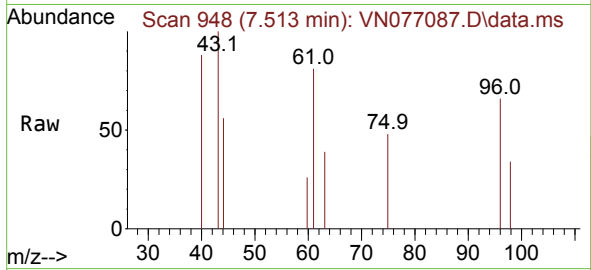




#25
2-Butanone
Concen: 0.351 ug/l
RT: 7.513 min Scan# 948
Delta R.T. 0.024 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

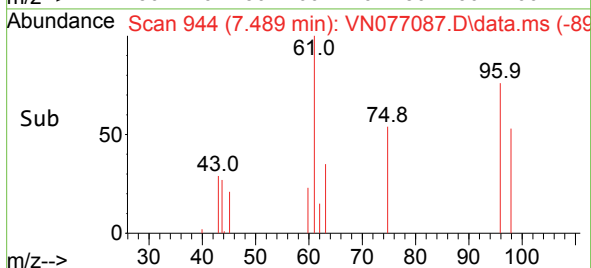
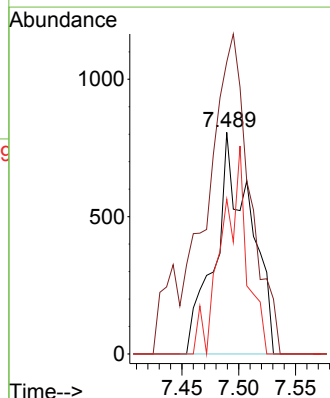
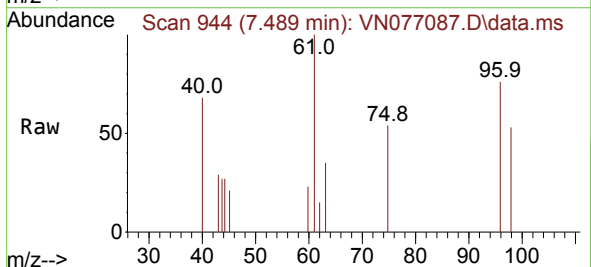
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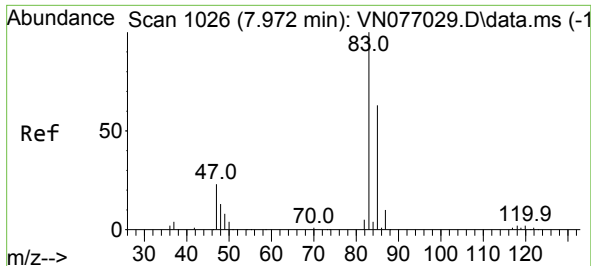
Tgt Ion: 43 Resp: 1467
Ion Ratio Lower Upper
43 100
72 0.0 20.7 31.1#



#27
cis-1,2-Dichloroethene
Concen: 0.288 ug/l
RT: 7.489 min Scan# 944
Delta R.T. -0.006 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

Tgt Ion: 96 Resp: 1740
Ion Ratio Lower Upper
96 100
61 190.2 0.0 315.4
98 65.4 0.0 128.6

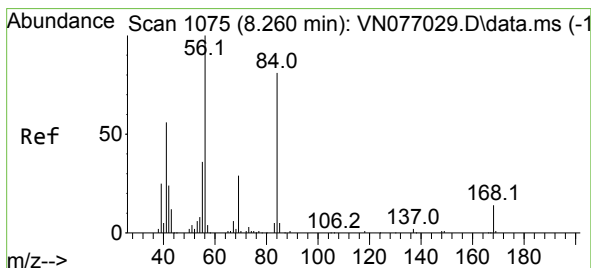
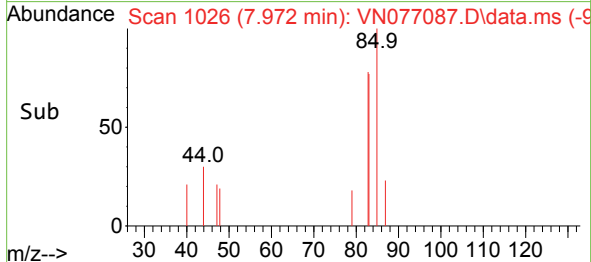
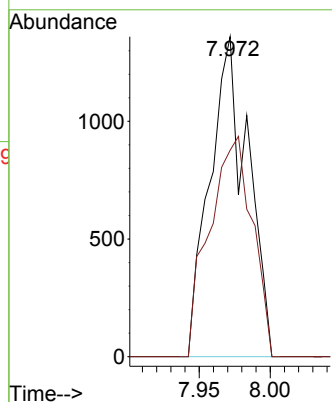
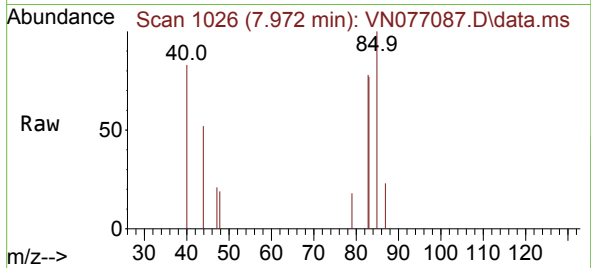




#30
Chloroform
Concen: 0.233 ug/l
RT: 7.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

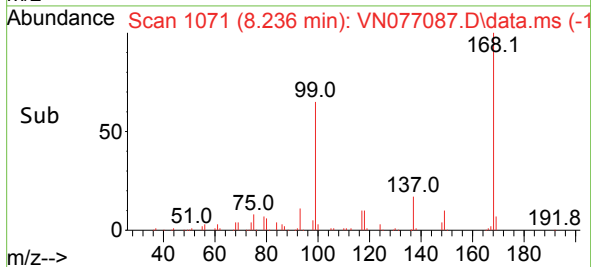
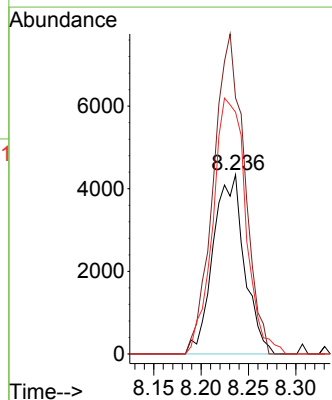
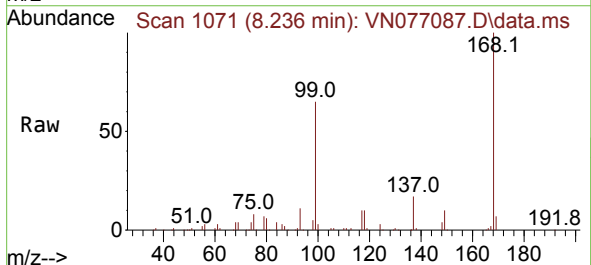
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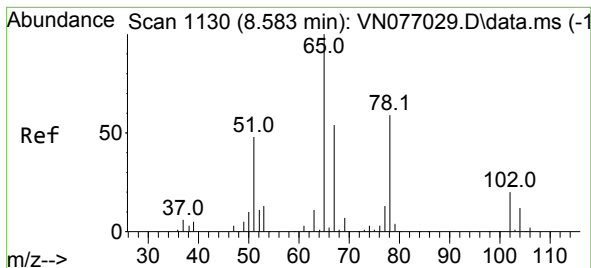
Tgt Ion: 83 Resp: 2524
Ion Ratio Lower Upper
83 100
85 64.5 50.6 75.8



#31
Cyclohexane
Concen: 0.953 ug/l
RT: 8.236 min Scan# 1071
Delta R.T. -0.024 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

Tgt Ion: 56 Resp: 9990
Ion Ratio Lower Upper
56 100
69 142.8 22.8 34.2#
84 134.9 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 46.316 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN077087.D

Acq: 21 Mar 2023 13:52

Instrument :

MSVOA_N

ClientSampleId :

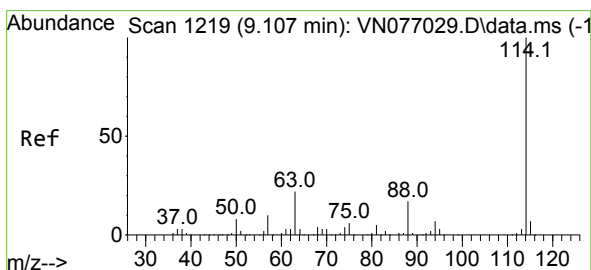
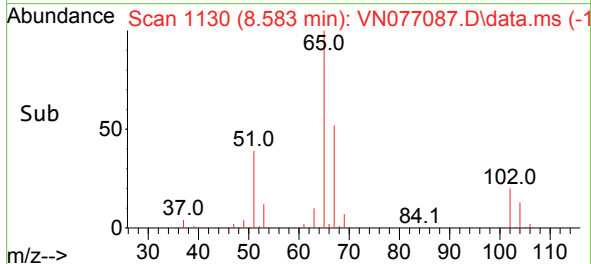
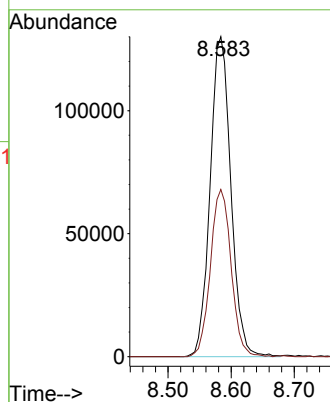
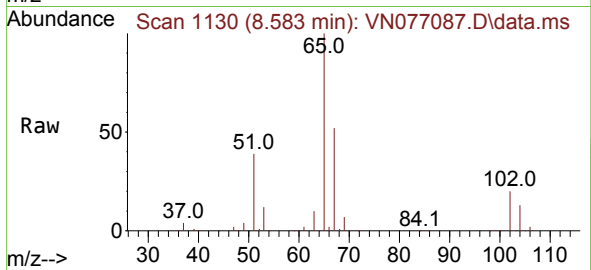
TT180D1-20230313DL

Tgt Ion: 65 Resp: 296629

Ion Ratio Lower Upper

65 100

67 52.3 0.0 105.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN077087.D

Acq: 21 Mar 2023 13:52

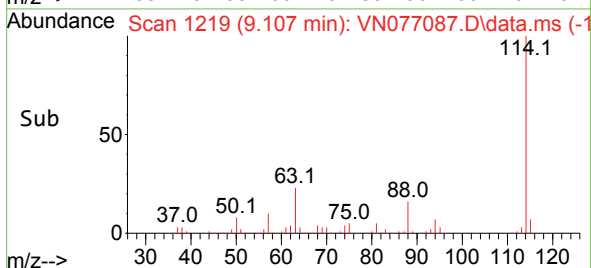
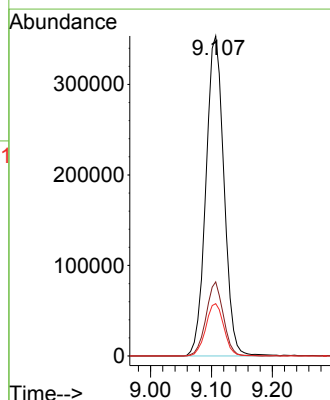
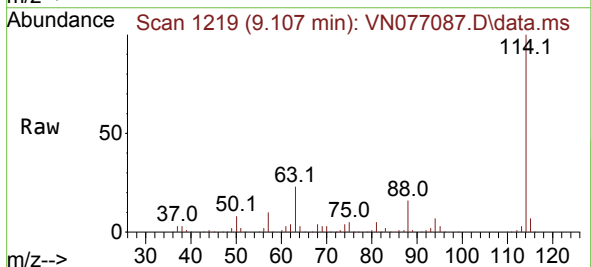
Tgt Ion: 114 Resp: 728016

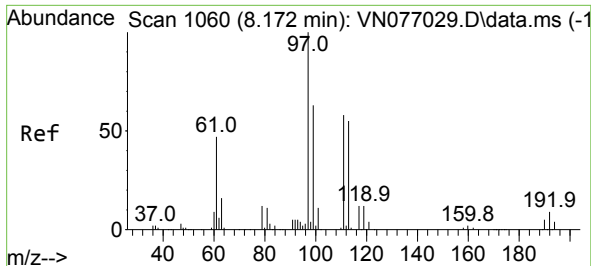
Ion Ratio Lower Upper

114 100

63 23.2 0.0 44.6

88 16.3 0.0 33.8

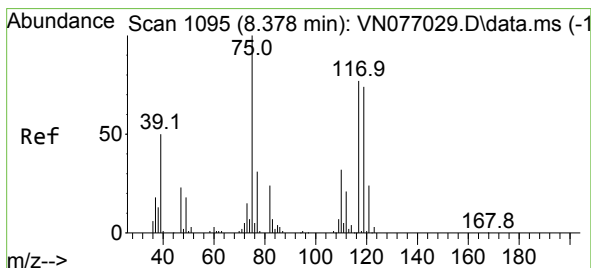
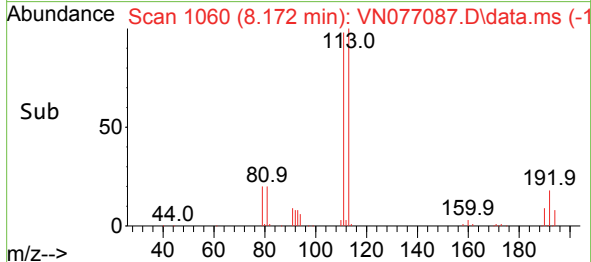
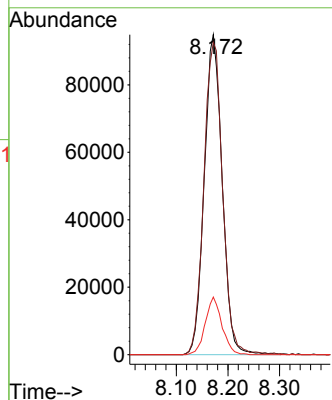
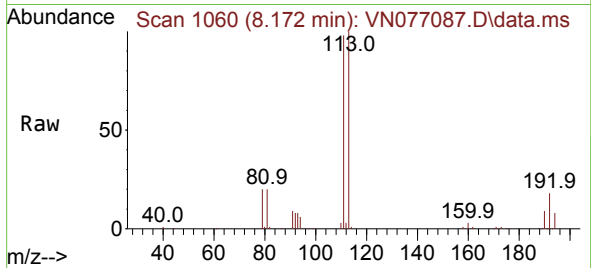




#35
Dibromofluoromethane
Concen: 44.903 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

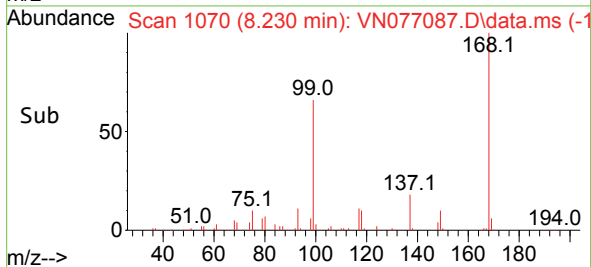
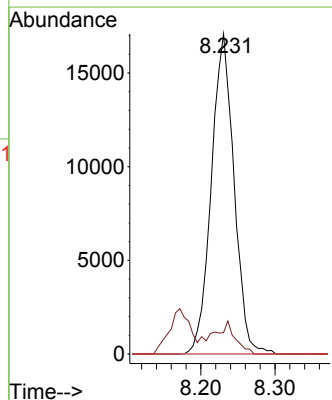
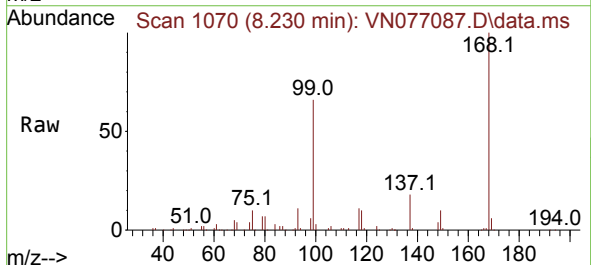
Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313DL

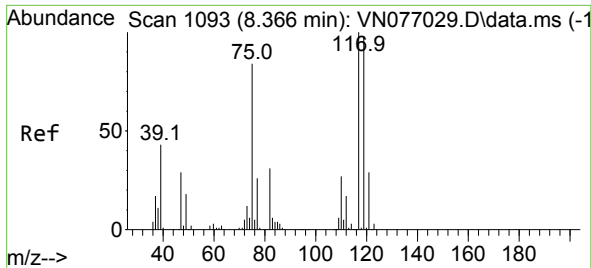
Tgt Ion:113 Resp: 228931
Ion Ratio Lower Upper
113 100
111 101.7 82.2 123.2
192 16.7 13.0 19.6



#36
1,1-Dichloropropene
Concen: 4.564 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.147 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

Tgt Ion: 75 Resp: 36345
Ion Ratio Lower Upper
75 100
110 8.8 15.9 47.7#
77 0.0 24.3 36.5#

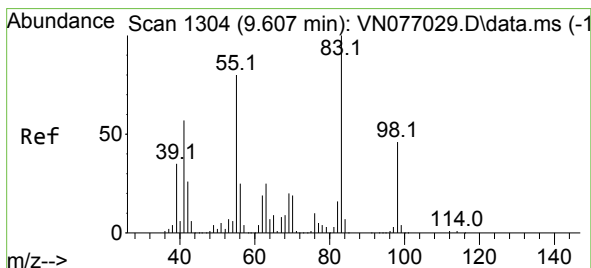
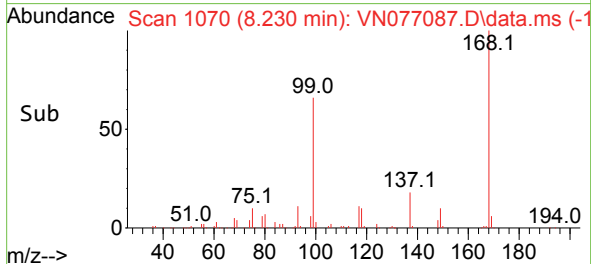
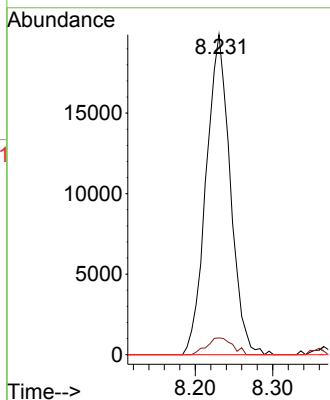
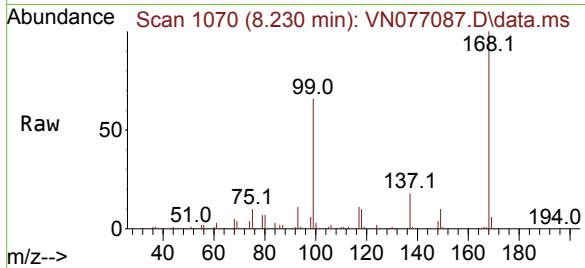




#38
Carbon Tetrachloride
Concen: 5.542 ug/l
RT: 8.230 min Scan# 110
Delta R.T. -0.135 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

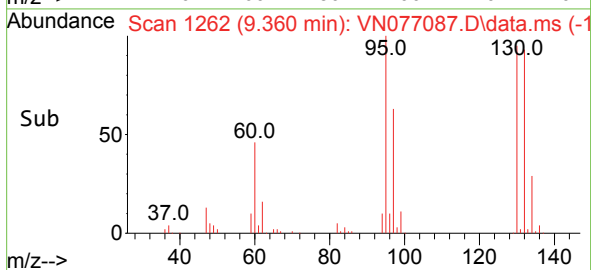
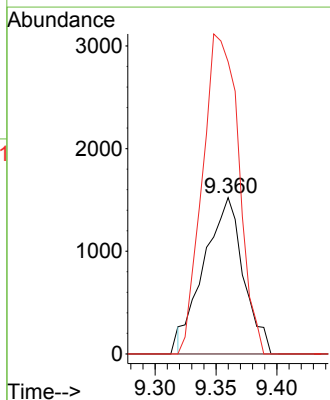
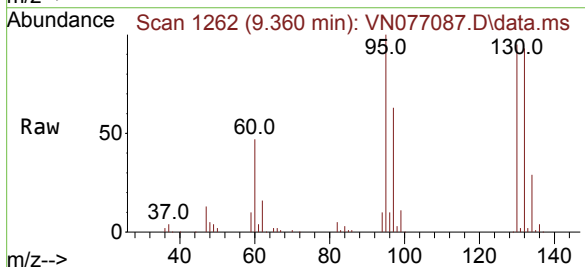
Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313DL

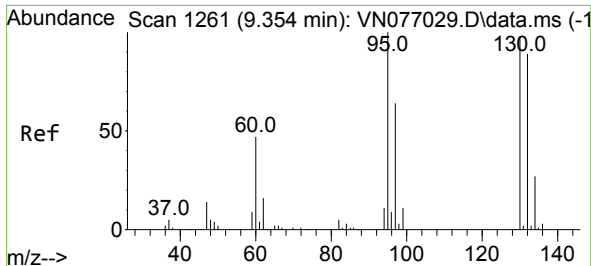
Tgt Ion:117 Resp: 42986
Ion Ratio Lower Upper
117 100
119 5.2 78.2 117.2#
121 0.0 23.2 34.8#



#39
Methylcyclohexane
Concen: 0.365 ug/l
RT: 9.360 min Scan# 1262
Delta R.T. -0.247 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

Tgt Ion: 83 Resp: 3406
Ion Ratio Lower Upper
83 100
55 0.0 63.8 95.8#
98 186.9 37.1 55.7#

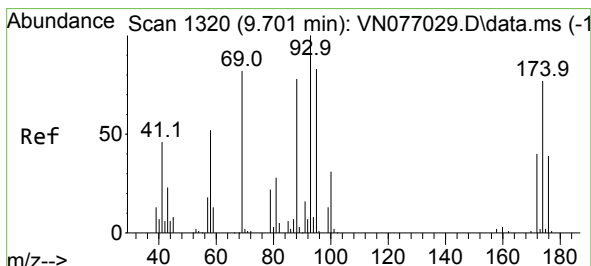
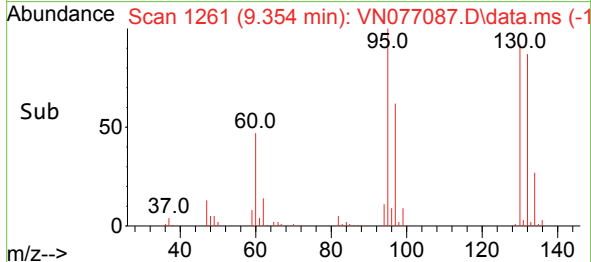
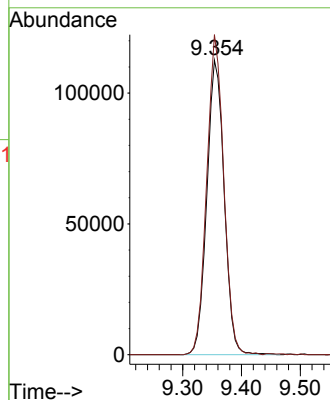
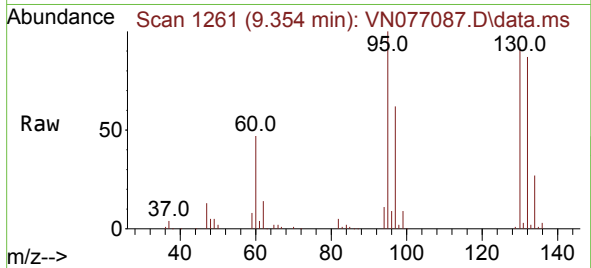




#44
Trichloroethene
Concen: 41.607 ug/l
RT: 9.354 min Scan# 1261
Delta R.T. -0.000 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

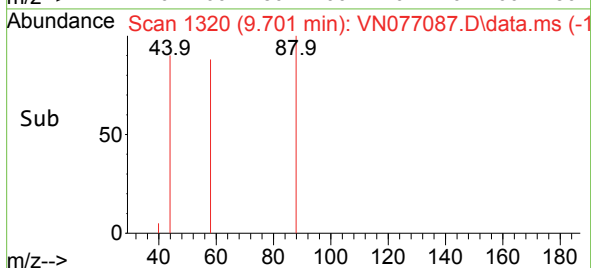
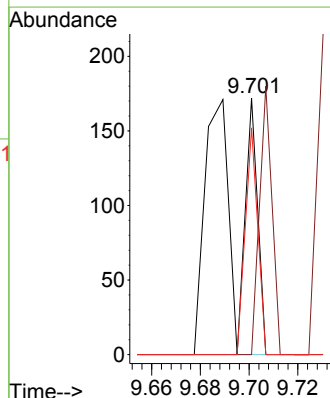
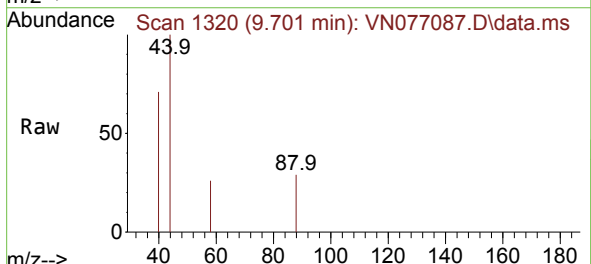
Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313DL

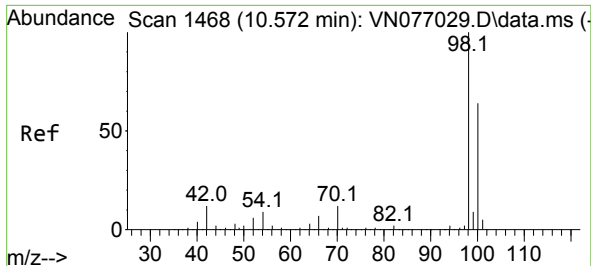
Tgt Ion:130 Resp: 230808
Ion Ratio Lower Upper
130 100
95 108.7 0.0 204.4



#49
1,4-Dioxane
Concen: 1.610 ug/l
RT: 9.701 min Scan# 1320
Delta R.T. -0.000 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

Tgt Ion: 88 Resp: 175
Ion Ratio Lower Upper
88 100
43 36.6 22.2 33.2#
58 30.9 60.8 91.2#

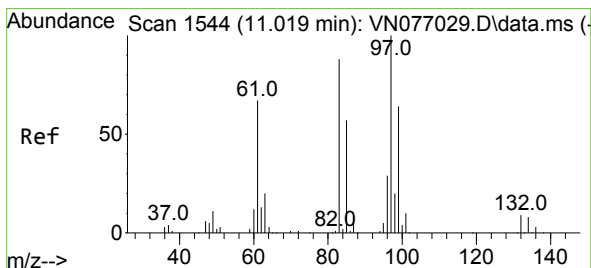
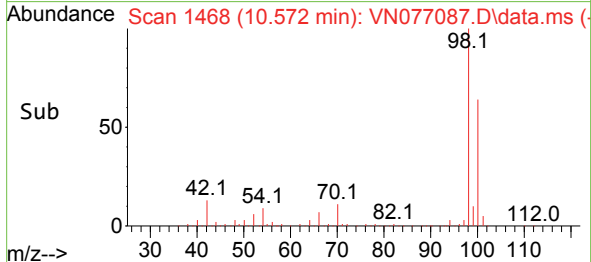
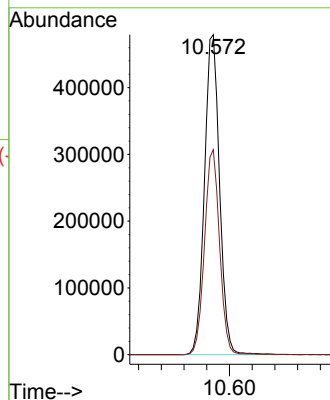
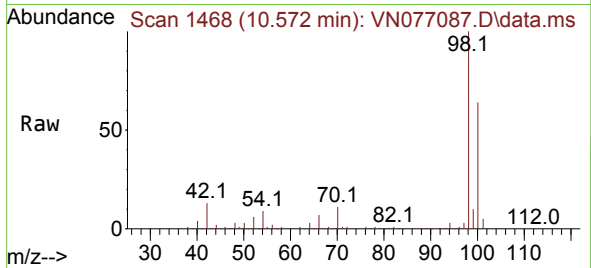




#50
Toluene-d8
Concen: 48.457 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

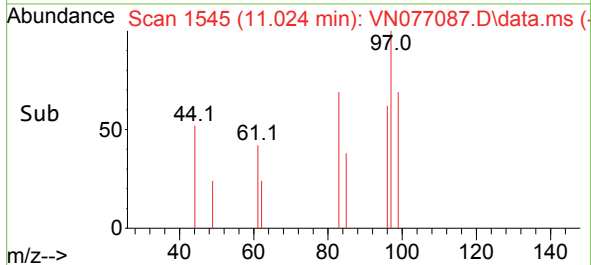
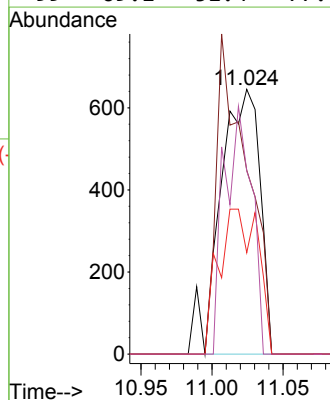
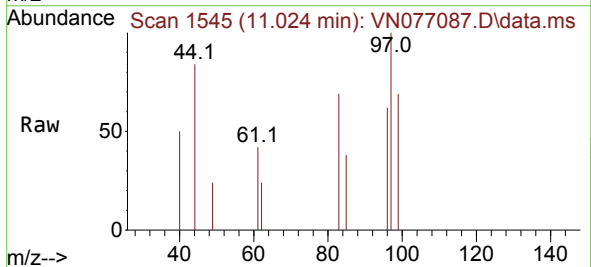
Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313DL

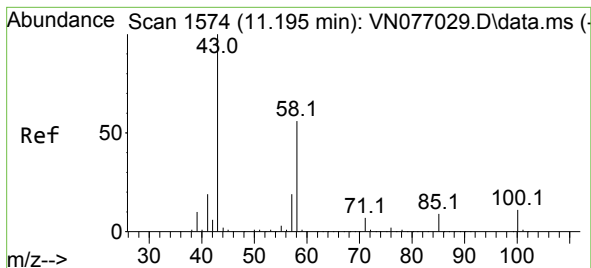
Tgt Ion: 98 Resp: 882503
Ion Ratio Lower Upper
98 100
100 63.8 51.6 77.4



#55
1,1,2-Trichloroethane
Concen: 0.220 ug/l
RT: 11.024 min Scan# 1545
Delta R.T. 0.006 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

Tgt Ion: 97 Resp: 1252
Ion Ratio Lower Upper
97 100
83 69.5 70.5 105.7#
85 38.3 45.4 68.2#
99 69.1 51.4 77.0





#59

2-Hexanone

Concen: 0.465 ug/l

RT: 11.201 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN077087.D

Acq: 21 Mar 2023 13:52

Instrument :

MSVOA_N

ClientSampleId :

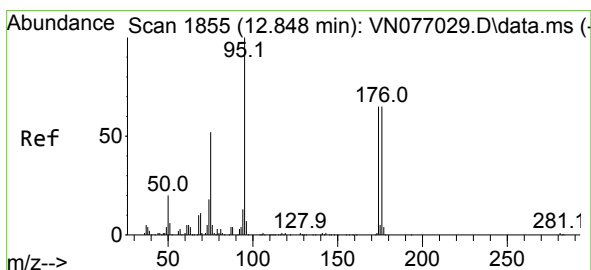
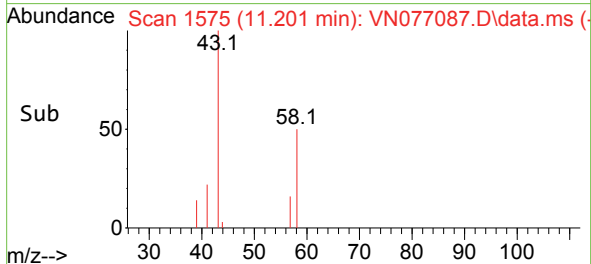
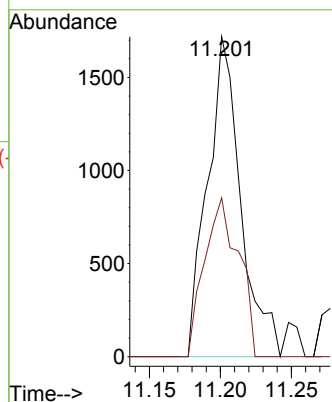
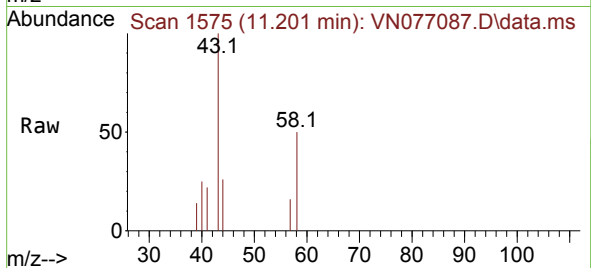
TT180D1-20230313DL

Tgt Ion: 43 Resp: 2794

Ion Ratio Lower Upper

43 100

58 51.2 27.7 83.1



#62

4-Bromofluorobenzene

Concen: 44.587 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.006 min

Lab File: VN077087.D

Acq: 21 Mar 2023 13:52

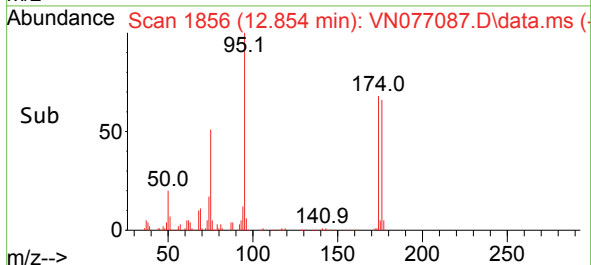
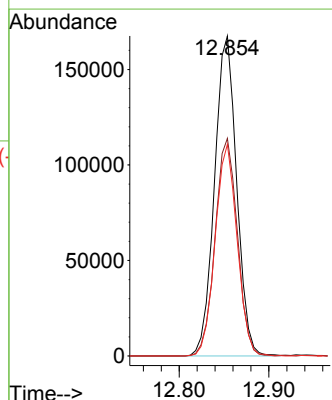
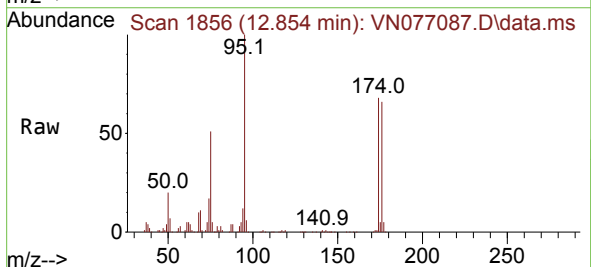
Tgt Ion: 95 Resp: 286938

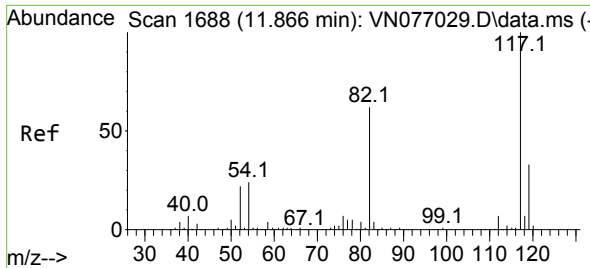
Ion Ratio Lower Upper

95 100

174 68.5 0.0 136.6

176 65.5 0.0 130.0

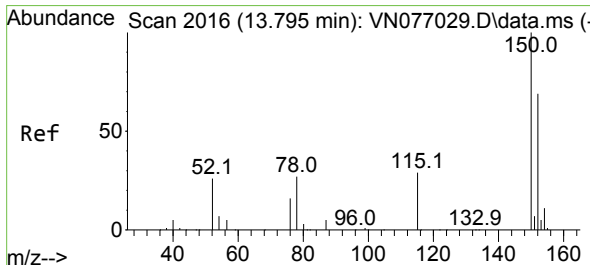
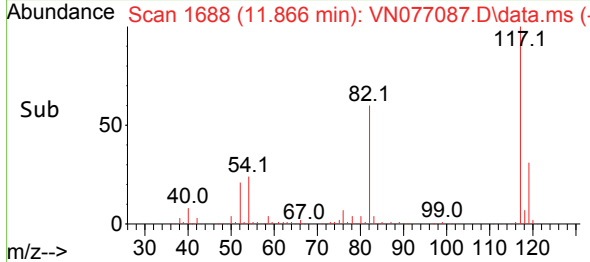
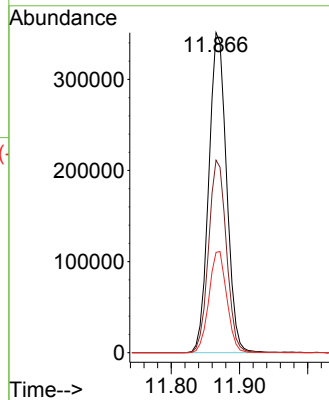
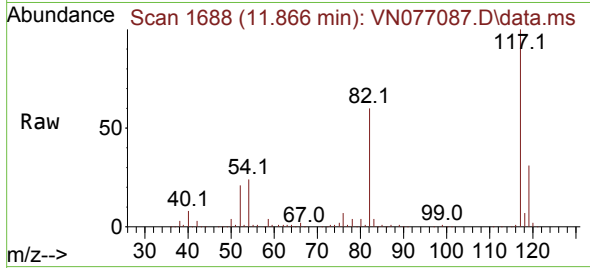




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

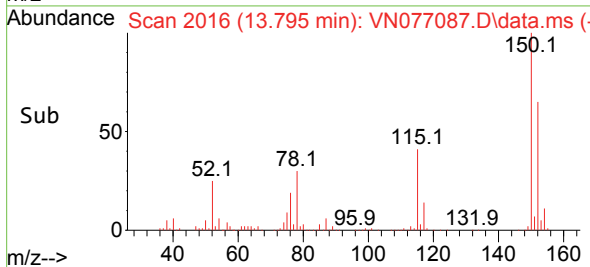
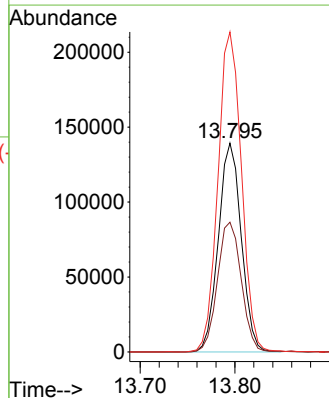
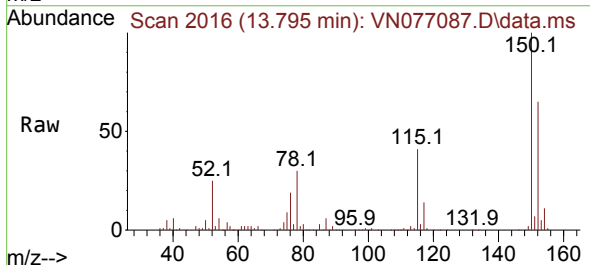
Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313DL

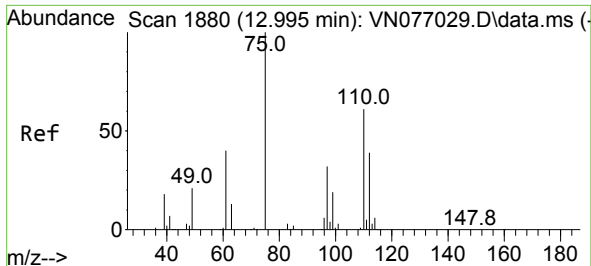
Tgt Ion:117 Resp: 636741
Ion Ratio Lower Upper
117 100
82 60.1 49.4 74.0
119 31.4 26.5 39.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

Tgt Ion:152 Resp: 234653
Ion Ratio Lower Upper
152 100
115 64.7 31.9 95.7
150 157.1 0.0 348.0

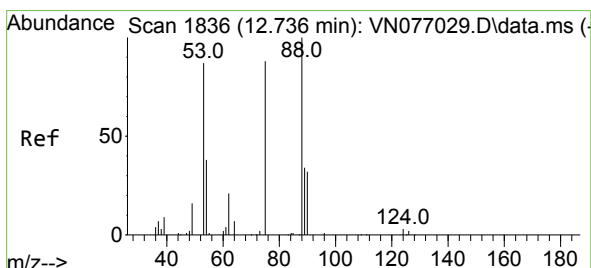
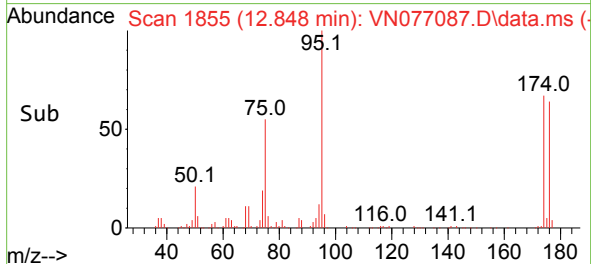
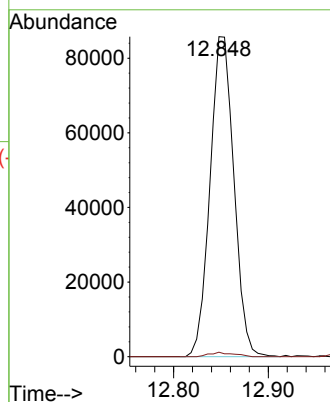
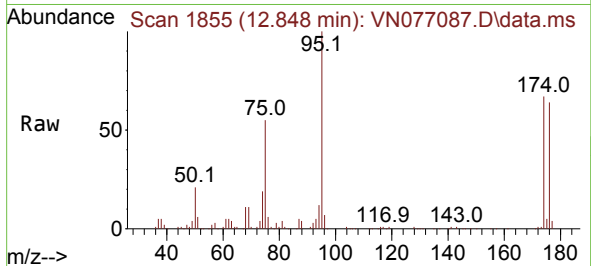




#76
1,2,3-Trichloropropane
Concen: 24.828 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. -0.147 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

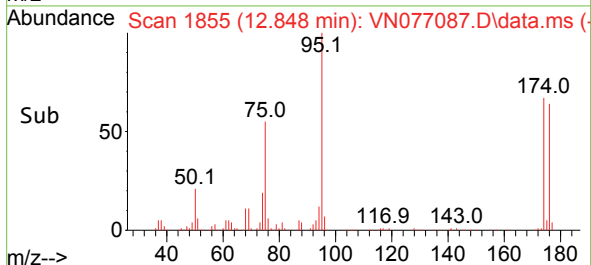
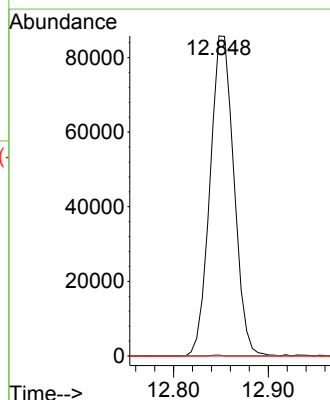
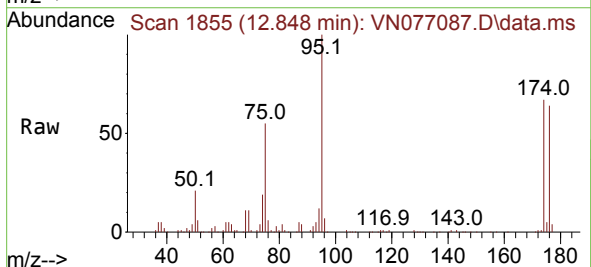
Instrument :
MSVOA_N
ClientSampleId :
TT180D1-20230313DL

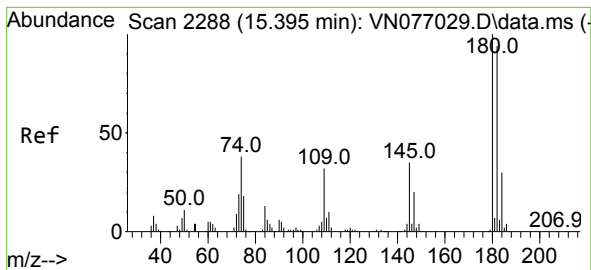
Tgt Ion: 75 Resp: 150694
Ion Ratio Lower Upper
75 100
77 1.4 107.3 322.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 68.339 ug/l
RT: 12.848 min Scan# 1855
Delta R.T. 0.112 min
Lab File: VN077087.D
Acq: 21 Mar 2023 13:52

Tgt Ion: 75 Resp: 150694
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: 0.565 ug/l

RT: 15.389 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN077087.D

Acq: 21 Mar 2023 13:52

Instrument :

MSVOA_N

ClientSampleId :

TT180D1-20230313DL

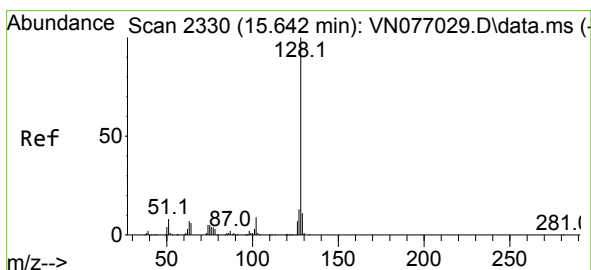
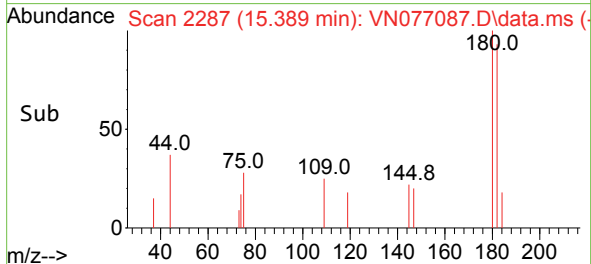
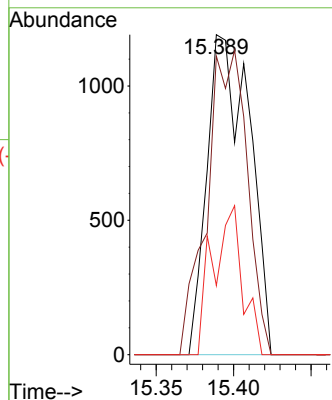
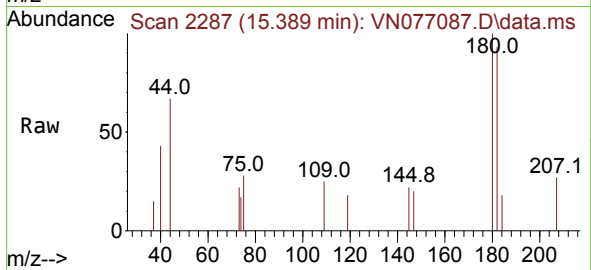
Tgt Ion:180 Resp: 2266

Ion Ratio Lower Upper

180 100

182 90.4 47.3 141.9

145 32.7 16.9 50.7



#95

Naphthalene

Concen: 2.405 ug/l

RT: 15.642 min Scan# 2330

Delta R.T. -0.000 min

Lab File: VN077087.D

Acq: 21 Mar 2023 13:52

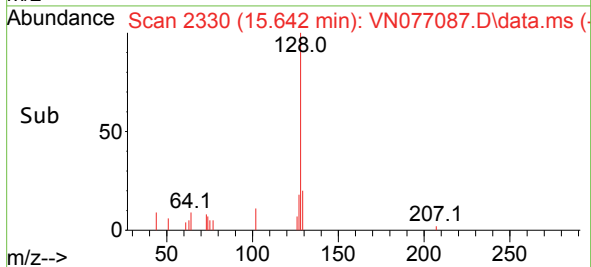
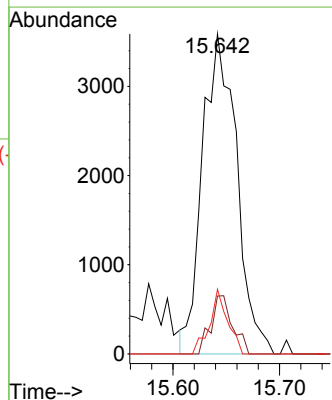
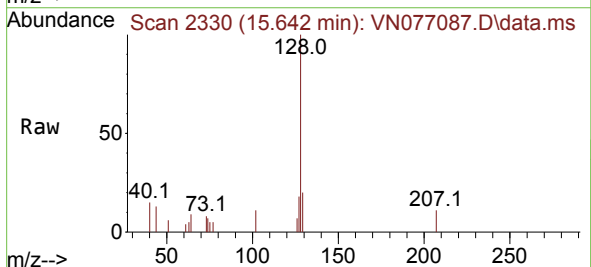
Tgt Ion:128 Resp: 8000

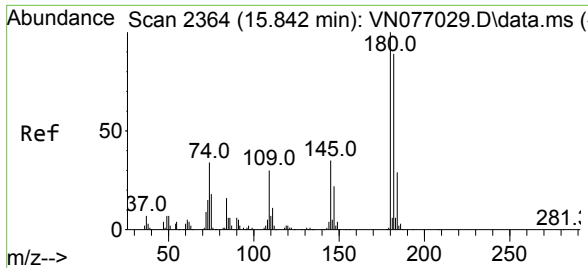
Ion Ratio Lower Upper

128 100

127 11.5 10.0 15.0

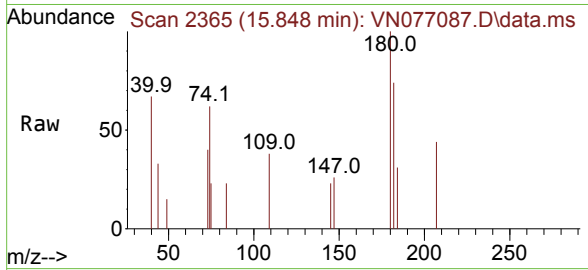
129 10.6 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 0.581 ug/l
 RT: 15.848 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN077087.D
 Acq: 21 Mar 2023 13:52

Instrument :
 MSVOA_N
 ClientSampleId :
 TT180D1-20230313DL



Tgt Ion:	180	Resp:	2338
Ion	Ratio	Lower	Upper
180	100		
182	76.3	47.4	142.2
145	23.7	17.9	53.8

