

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051823\
 Data File : VN077748.D
 Acq On : 18 May 2023 19:51
 Operator : JC\MD
 Sample : 02834-12
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D3-20230517

Quant Time: May 29 08:55:26 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)

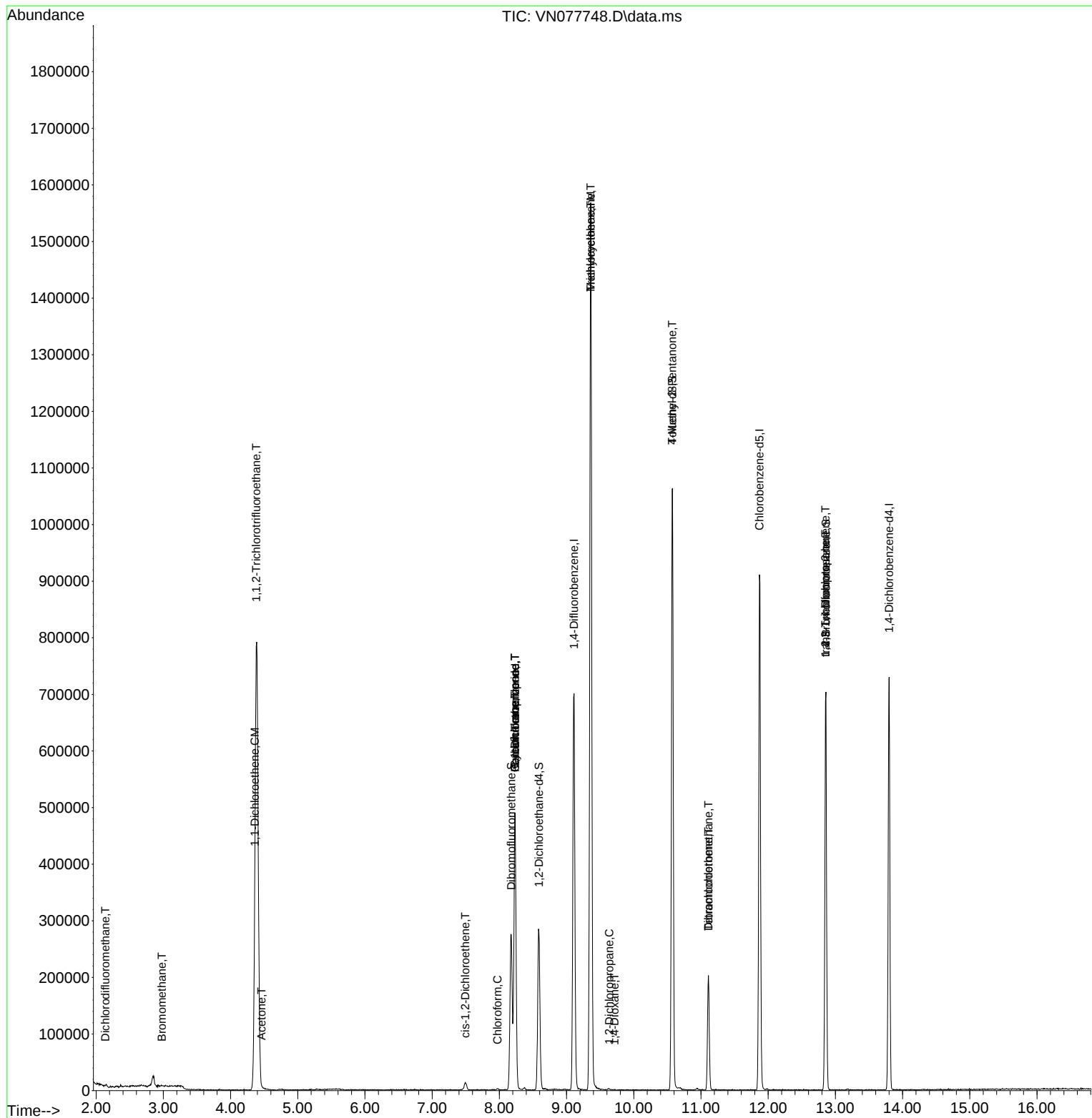
Internal Standards						
1) Pentafluorobenzene	8.235	168	349432	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	631656	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	556745	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	194682	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	242655	46.411	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	92.820%		
35) Dibromofluoromethane	8.177	113	204232	49.583	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.160%		
50) Toluene-d8	10.571	98	787316	49.660	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.320%		
62) 4-Bromofluorobenzene	12.859	95	256874	45.876	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	91.760%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	1037	0.261	ug/l	100
3) Chloromethane	2.371	50	1330	Below Cal		95
5) Bromomethane	2.977	94	1503	0.405	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.383	101	563307	145.674	ug/l	99
12) 1,1-Dichloroethene	4.359	96	3310	0.901	ug/l #	79
13) Acrolein	4.200	56	236	Below Cal		92
16) Acetone	4.459	43	1098	0.668	ug/l	91
20) Methylene Chloride	5.283	84	180	Below Cal	#	14
27) cis-1,2-Dichloroethene	7.494	96	7743	1.564	ug/l	96
30) Chloroform	7.971	83	2458	0.288	ug/l	88
31) Cyclohexane	8.229	56	8578	1.207	ug/l #	27
36) 1,1-Dichloropropene	8.229	75	30291	5.028	ug/l #	47
38) Carbon Tetrachloride	8.235	117	39005	6.412	ug/l #	17
39) Methylcyclohexane	9.359	83	6907	0.936	ug/l #	1
44) Trichloroethene	9.359	130	562163	124.879	ug/l	98
45) 1,2-Dichloropropane	9.635	63	1169	0.258	ug/l	99
49) 1,4-Dioxane	9.712	88	545	6.939	ug/l #	72
51) 4-Methyl-2-Pentanone	10.571	43	3505	0.672	ug/l #	1
60) Dibromochloromethane	11.112	129	45815	10.099	ug/l #	11
64) Tetrachloroethene	11.112	164	44815	11.510	ug/l	93
76) 1,2,3-Trichloropropane	12.853	75	135339	27.759	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	135339	88.732	ug/l #	15

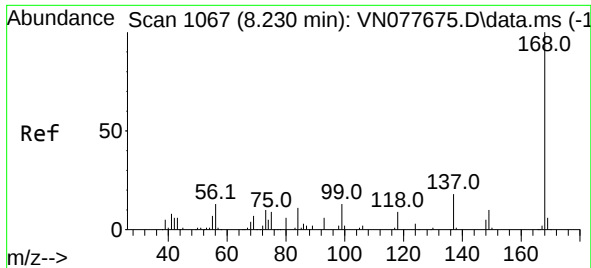
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

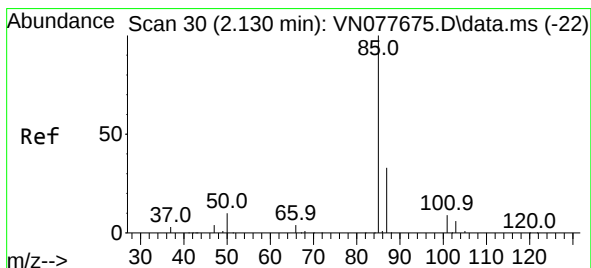
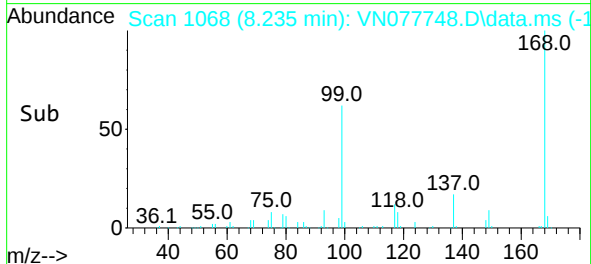
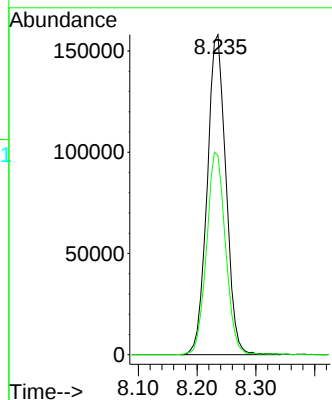
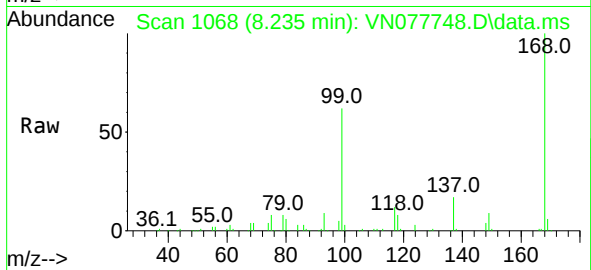




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077748.D
Acq: 18 May 2023 19:51

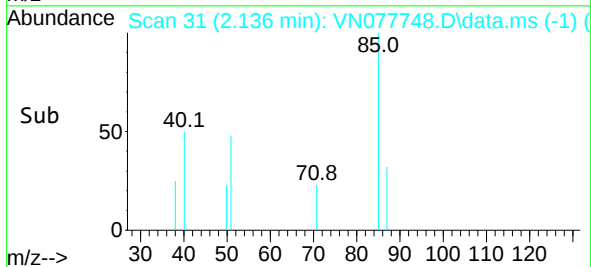
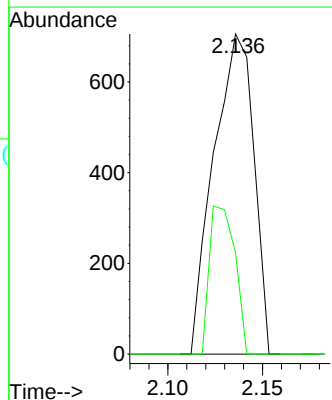
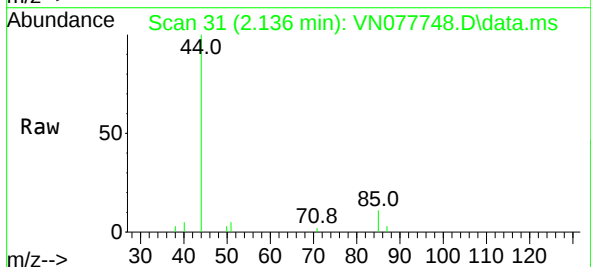
Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20230517

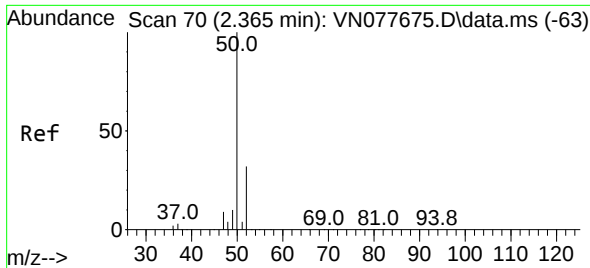
Tgt Ion:168 Resp: 349432
Ion Ratio Lower Upper
168 100
99 62.0 53.0 79.6



#2
Dichlorodifluoromethane
Concen: 0.261 ug/l
RT: 2.136 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN077748.D
Acq: 18 May 2023 19:51

Tgt Ion: 85 Resp: 1037
Ion Ratio Lower Upper
85 100
87 31.6 15.8 47.4

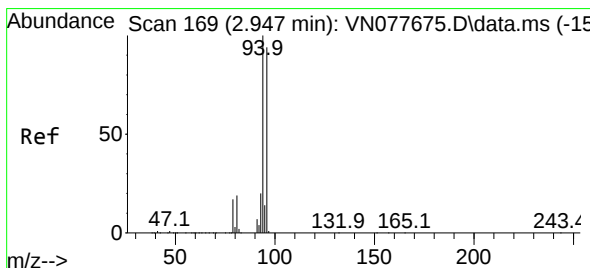
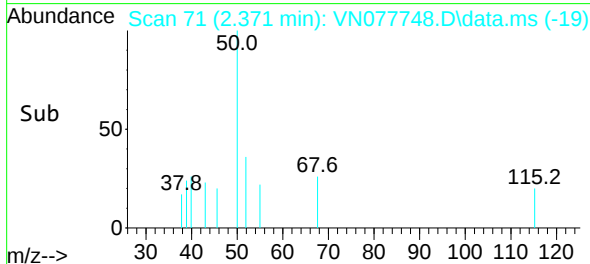
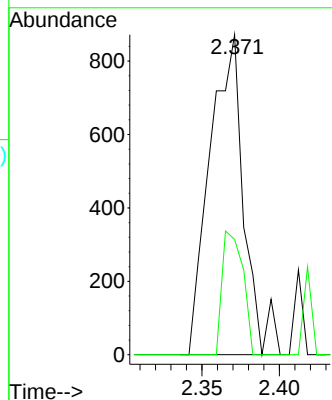
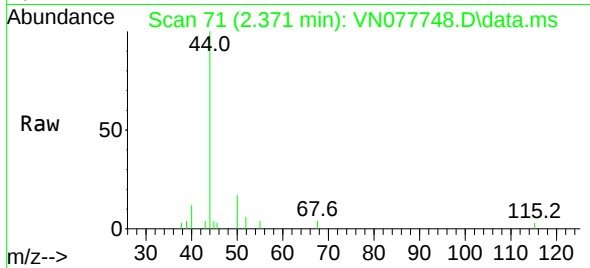




#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077748.D
Acq: 18 May 2023 19:51

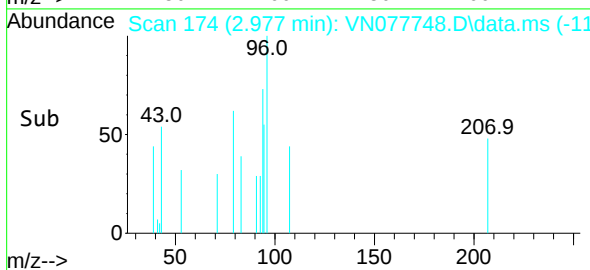
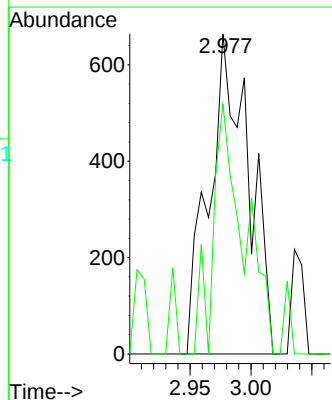
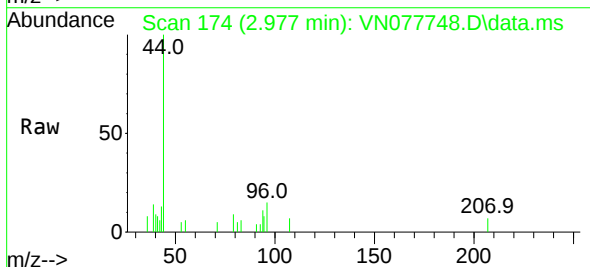
Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20230517

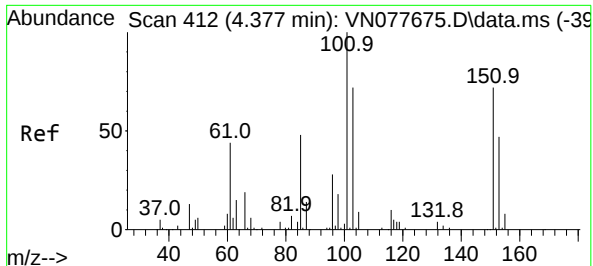
Tgt Ion: 50 Resp: 1330
Ion Ratio Lower Upper
50 100
52 36.0 26.5 39.7



#5
Bromomethane
Concen: 0.405 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.030 min
Lab File: VN077748.D
Acq: 18 May 2023 19:51

Tgt Ion: 94 Resp: 1503
Ion Ratio Lower Upper
94 100
96 78.2 73.1 109.7

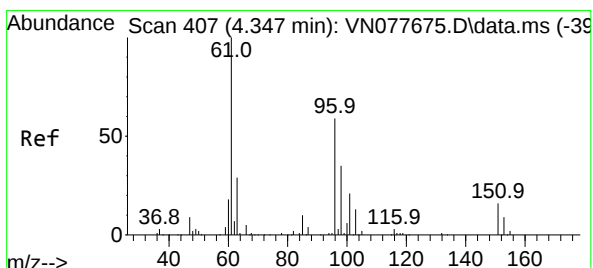
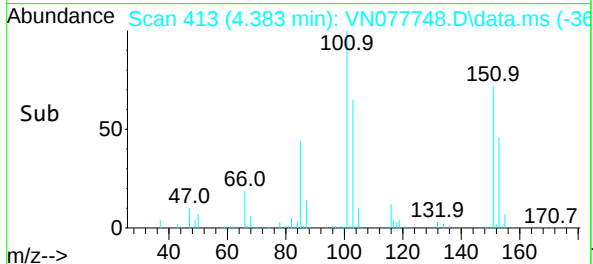
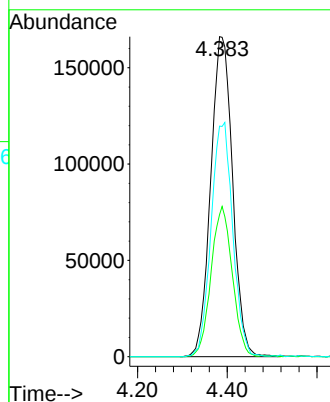
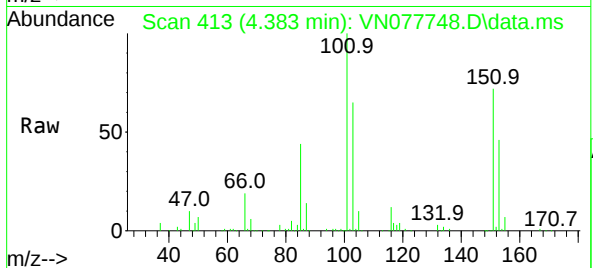




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 145.674 ug/l
 RT: 4.383 min Scan# 412
 Delta R.T. 0.006 min
 Lab File: VN077748.D
 Acq: 18 May 2023 19:51

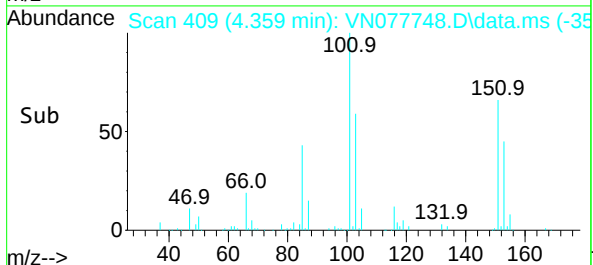
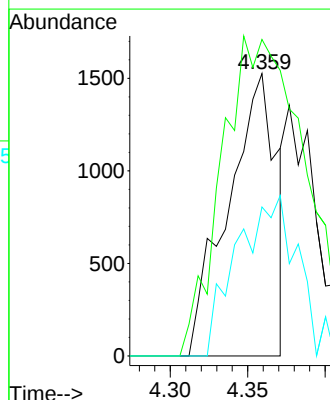
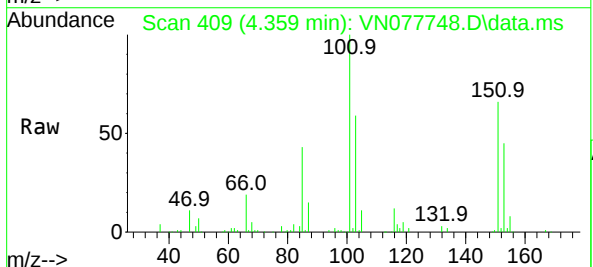
Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D3-20230517

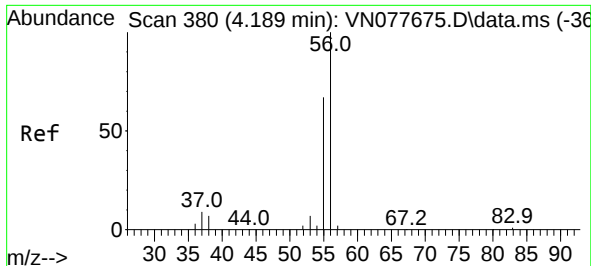
Tgt Ion:101 Resp: 563307
 Ion Ratio Lower Upper
 101 100
 85 45.5 36.6 55.0
 151 72.5 57.6 86.4



#12
 1,1-Dichloroethene
 Concen: 0.901 ug/l
 RT: 4.359 min Scan# 409
 Delta R.T. 0.012 min
 Lab File: VN077748.D
 Acq: 18 May 2023 19:51

Tgt Ion: 96 Resp: 3310
 Ion Ratio Lower Upper
 96 100
 61 112.1 112.7 169.1#
 98 52.8 51.2 76.8





#13

Acrolein

Concen: Below Cal

RT: 4.200 min Scan# 31

Delta R.T. 0.011 min

Lab File: VN077748.D

Acq: 18 May 2023 19:51

Instrument :

MSVOA_N

ClientSampleId :

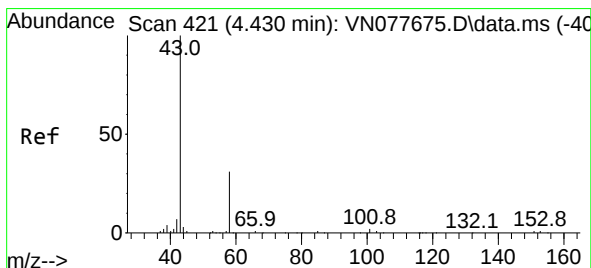
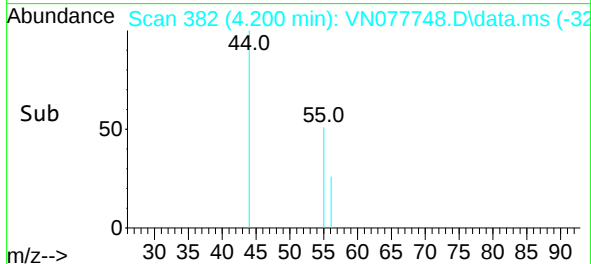
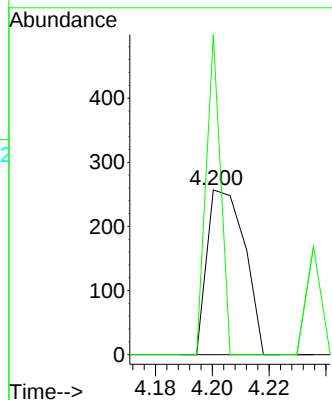
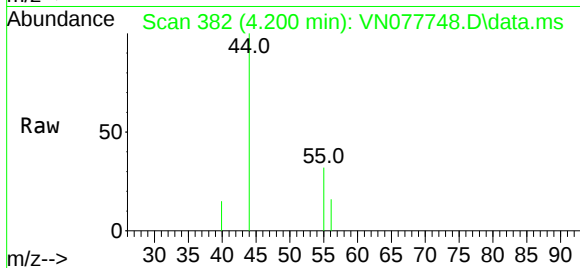
RE125D3-20230517

Tgt Ion: 56 Resp: 236

Ion Ratio Lower Upper

56 100

55 74.6 54.5 81.7



#16

Acetone

Concen: 0.668 ug/l

RT: 4.459 min Scan# 426

Delta R.T. 0.029 min

Lab File: VN077748.D

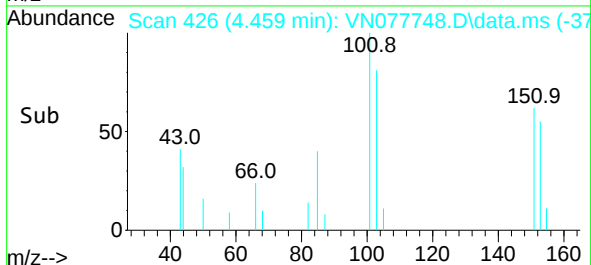
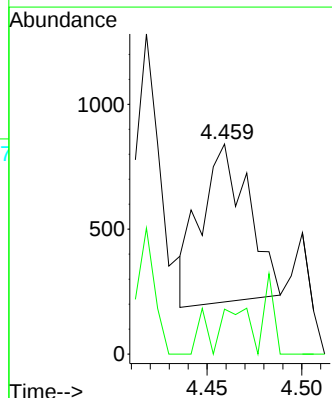
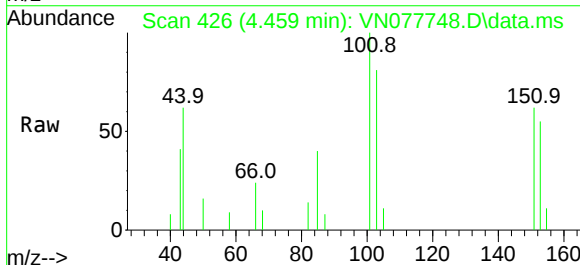
Acq: 18 May 2023 19:51

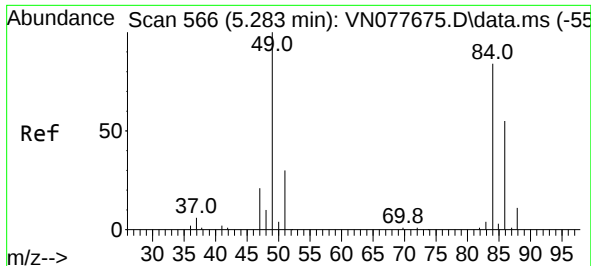
Tgt Ion: 43 Resp: 1098

Ion Ratio Lower Upper

43 100

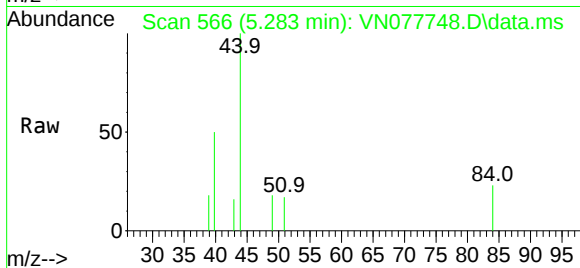
58 29.8 28.0 42.0



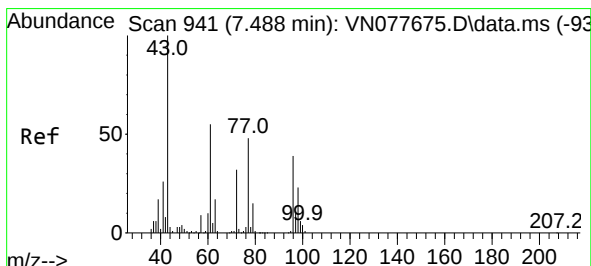
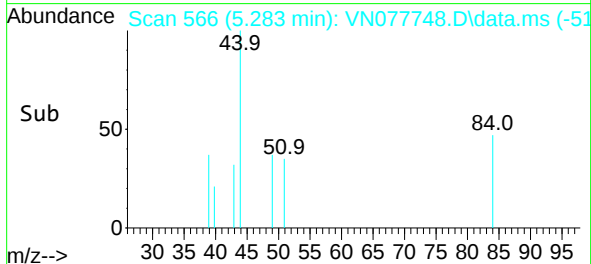
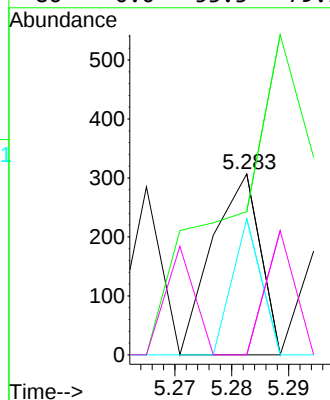


#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN077748.D
Acq: 18 May 2023 19:51

Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20230517

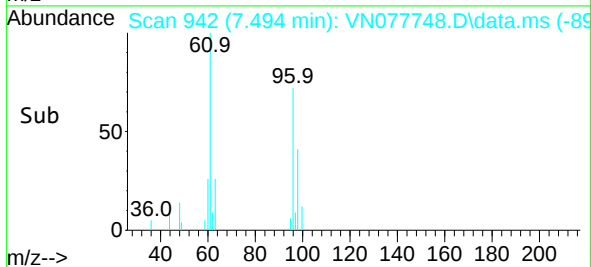
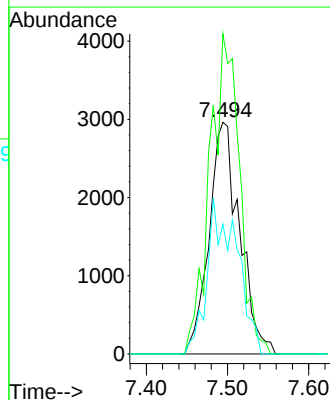
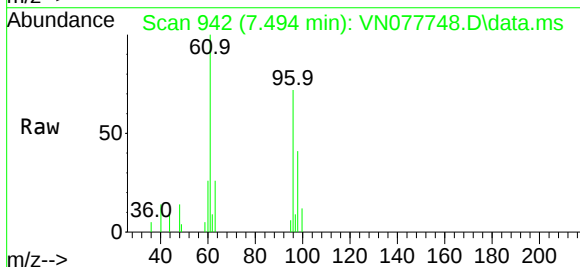


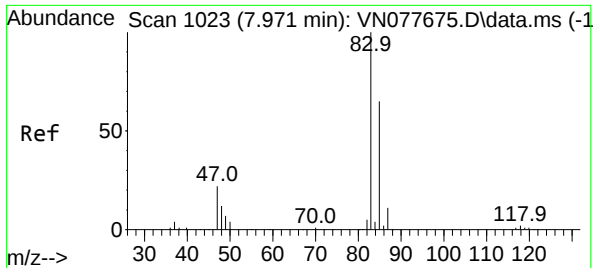
Tgt Ion:	84	Resp:	180
Ion	Ratio	Lower	Upper
84	100		
49	10.4	79.7	119.5#
51	75.2	25.2	37.8#
86	0.0	53.3	79.9#



#27
cis-1,2-Dichloroethene
Concen: 1.564 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN077748.D
Acq: 18 May 2023 19:51

Tgt Ion:	96	Resp:	7743
Ion	Ratio	Lower	Upper
96	100		
61	133.6	0.0	255.2
98	65.7	0.0	128.8





#30

Chloroform

Concen: 0.288 ug/l

RT: 7.971 min Scan# 1023

Delta R.T. -0.000 min

Lab File: VN077748.D

Acq: 18 May 2023 19:51

Instrument :

MSVOA_N

ClientSampleId :

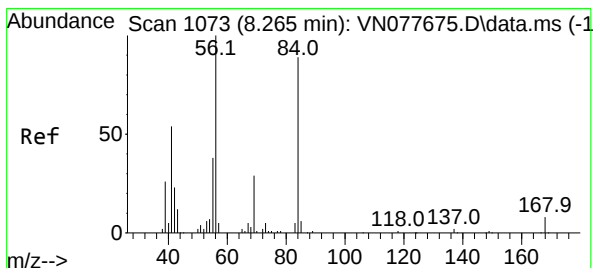
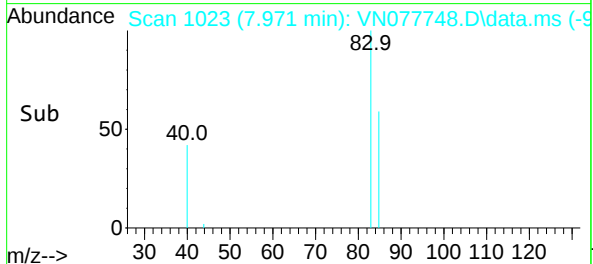
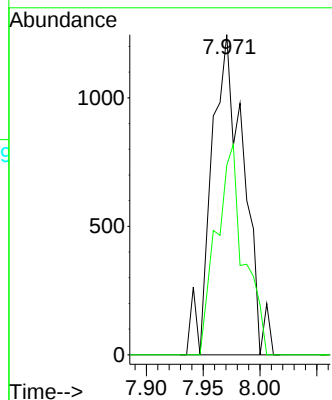
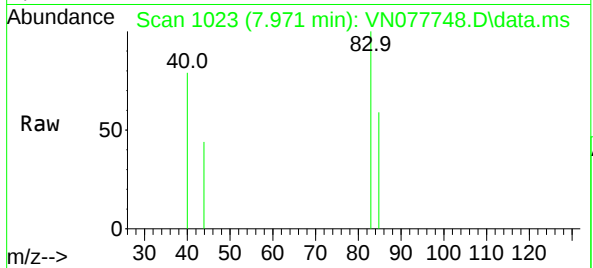
RE125D3-20230517

Tgt Ion: 83 Resp: 2458

Ion Ratio Lower Upper

83 100

85 59.1 55.4 83.0



#31

Cyclohexane

Concen: 1.207 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.036 min

Lab File: VN077748.D

Acq: 18 May 2023 19:51

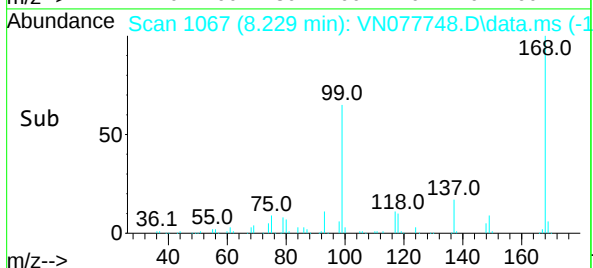
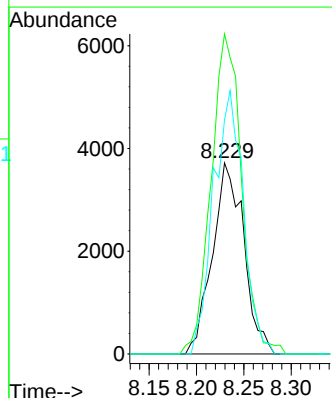
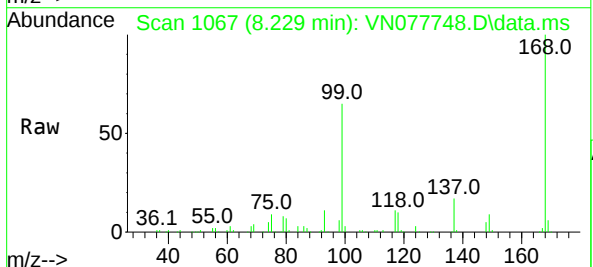
Tgt Ion: 56 Resp: 8578

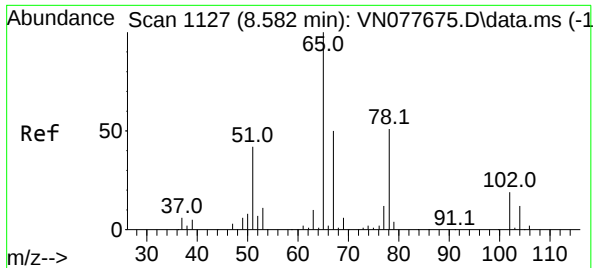
Ion Ratio Lower Upper

56 100

69 167.4 26.8 40.2#

84 122.5 81.8 122.6

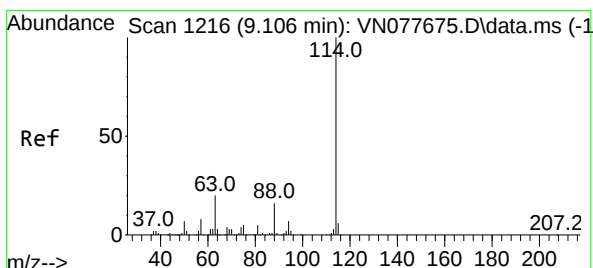
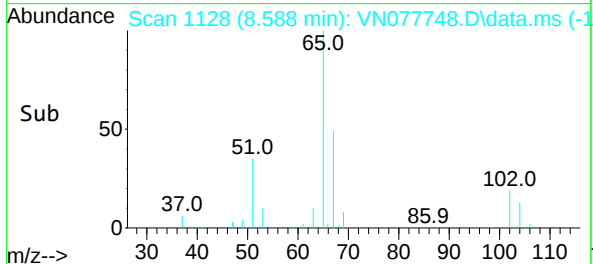
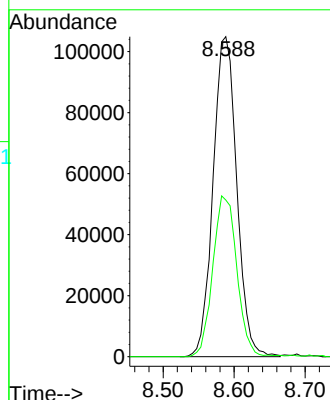
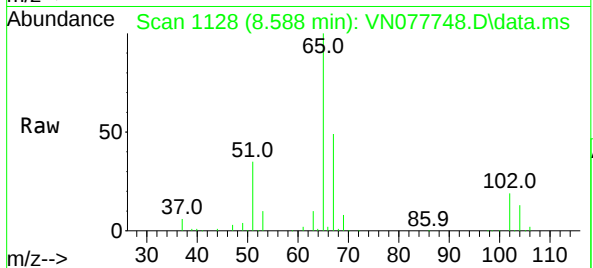




#33
 1,2-Dichloroethane-d4
 Concen: 46.411 ug/l
 RT: 8.588 min Scan# 1127
 Delta R.T. 0.006 min
 Lab File: VN077748.D
 Acq: 18 May 2023 19:51

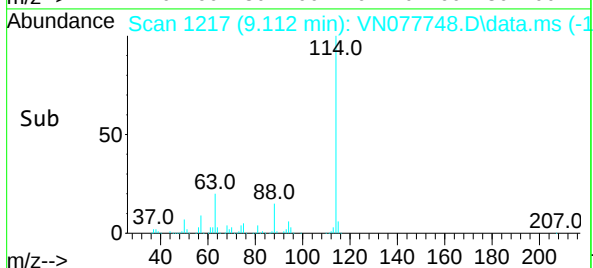
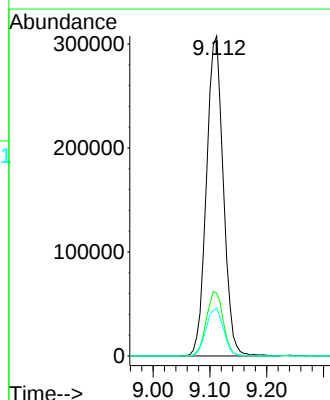
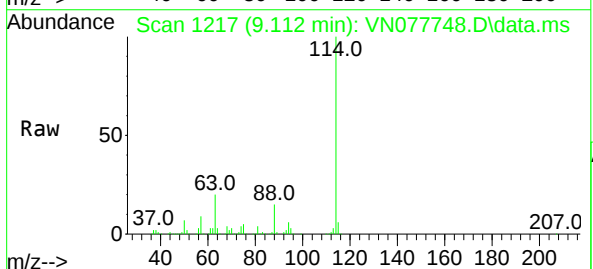
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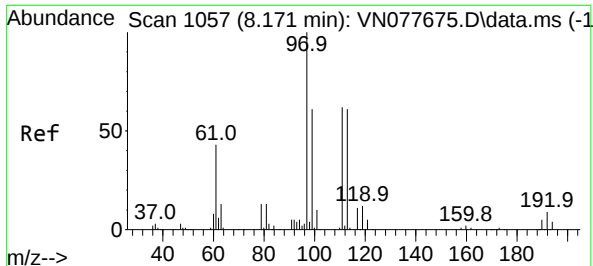
Tgt Ion: 65 Resp: 242655
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.112 min Scan# 1217
 Delta R.T. 0.006 min
 Lab File: VN077748.D
 Acq: 18 May 2023 19:51

Tgt Ion: 114 Resp: 631656
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 36.4
 88 15.0 0.0 30.6





#35

Dibromofluoromethane

Concen: 49.583 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN077748.D

Acq: 18 May 2023 19:51

Instrument :

MSVOA_N

ClientSampleId :

RE125D3-20230517

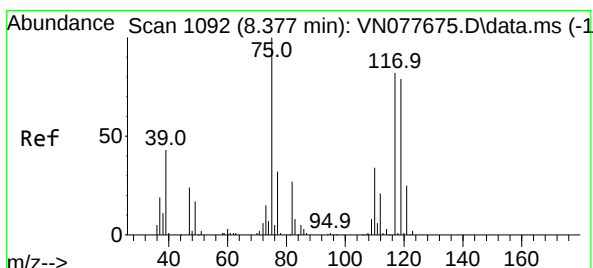
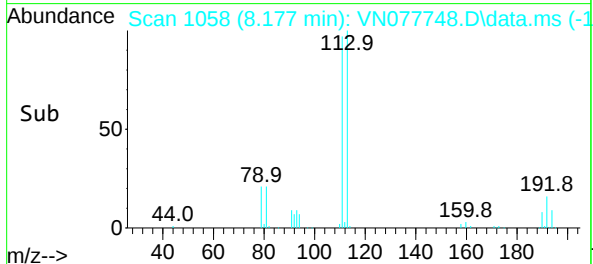
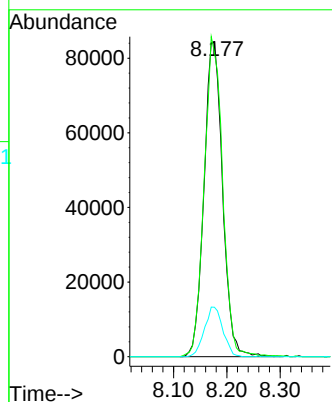
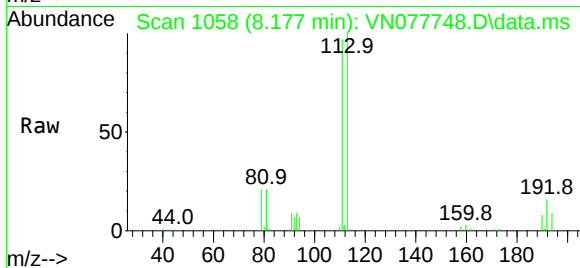
Tgt Ion:113 Resp: 204232

Ion Ratio Lower Upper

113 100

111 101.0 82.6 123.8

192 15.7 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.028 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.148 min

Lab File: VN077748.D

Acq: 18 May 2023 19:51

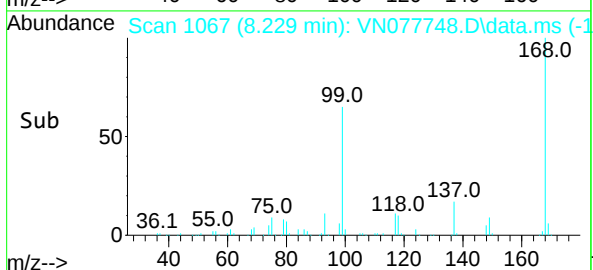
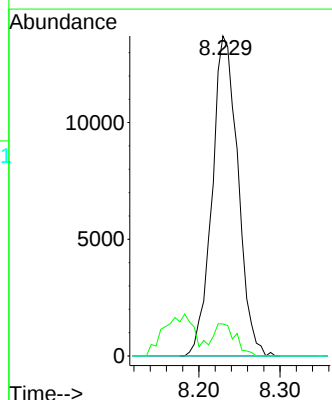
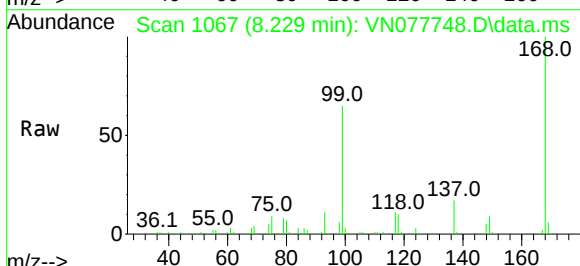
Tgt Ion: 75 Resp: 30291

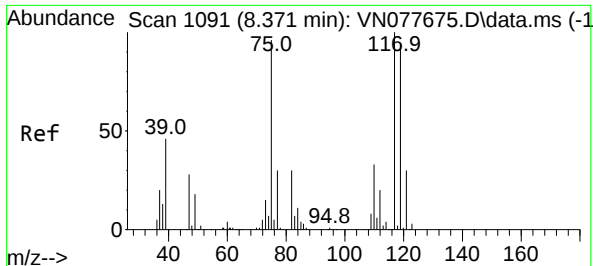
Ion Ratio Lower Upper

75 100

110 8.4 19.1 57.3#

77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.412 ug/l

RT: 8.235 min Scan# 1

Delta R.T. -0.136 min

Lab File: VN077748.D

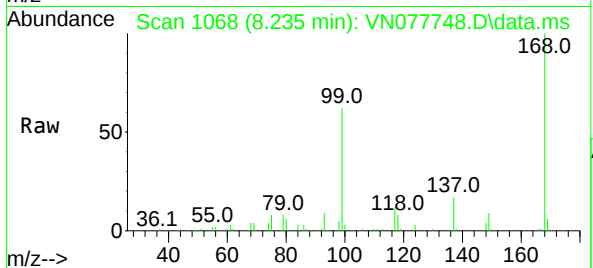
Acq: 18 May 2023 19:51

Instrument :

MSVOA_N

ClientSampleId :

RE125D3-20230517



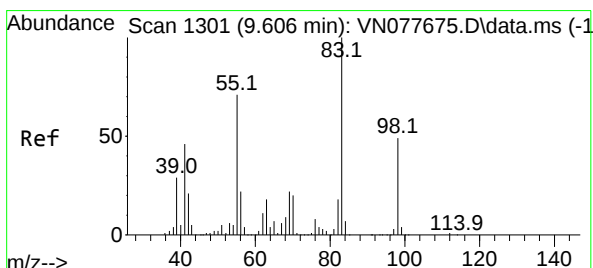
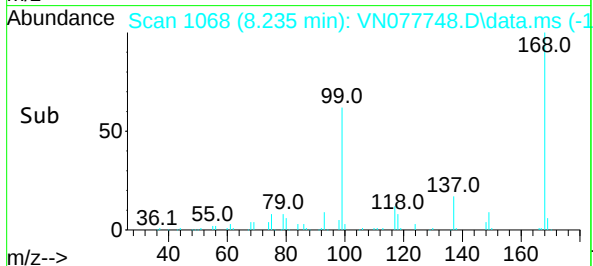
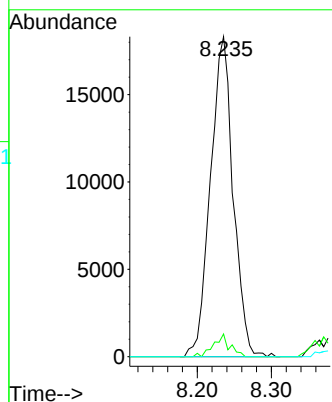
Tgt Ion:117 Resp: 39005

Ion Ratio Lower Upper

117 100

119 7.1 77.3 115.9#

121 0.0 23.3 34.9#



#39

Methylcyclohexane

Concen: 0.936 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. -0.247 min

Lab File: VN077748.D

Acq: 18 May 2023 19:51

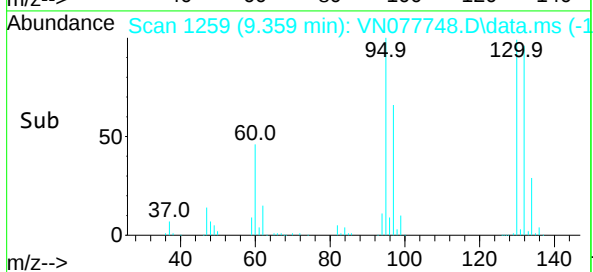
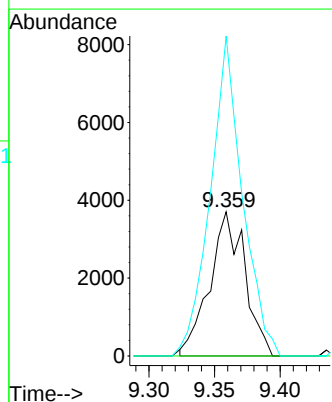
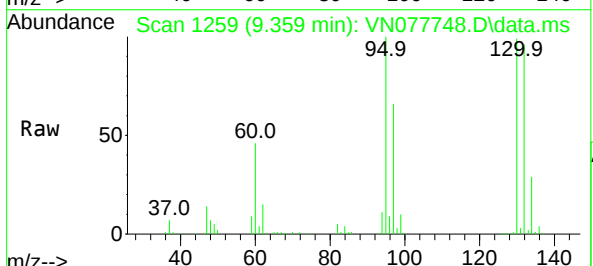
Tgt Ion: 83 Resp: 6907

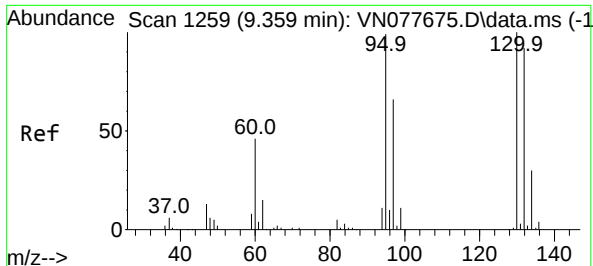
Ion Ratio Lower Upper

83 100

55 0.0 49.1 73.7#

98 221.9 40.6 61.0#

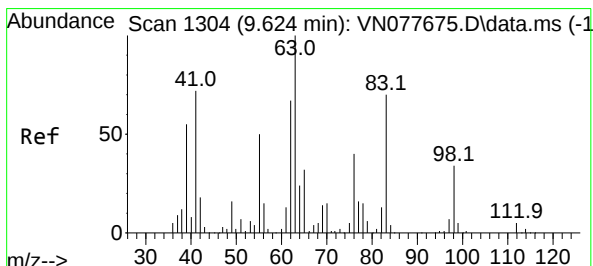
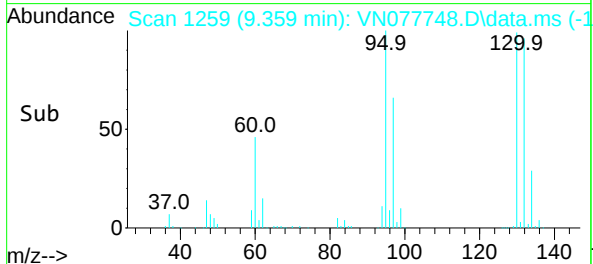
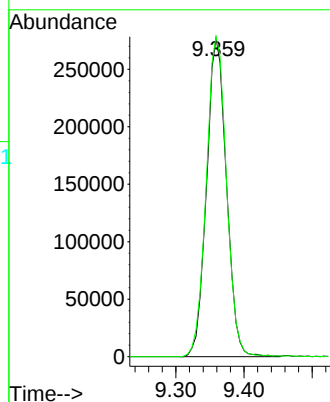
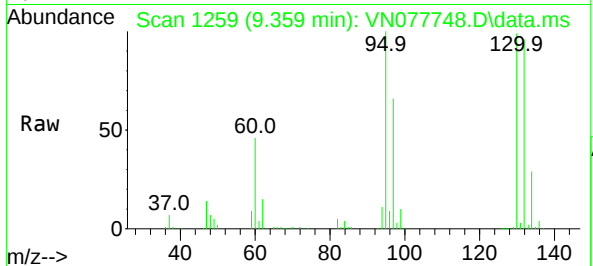




#44
Trichloroethene
Concen: 124.879 ug/l
RT: 9.359 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077748.D
Acq: 18 May 2023 19:51

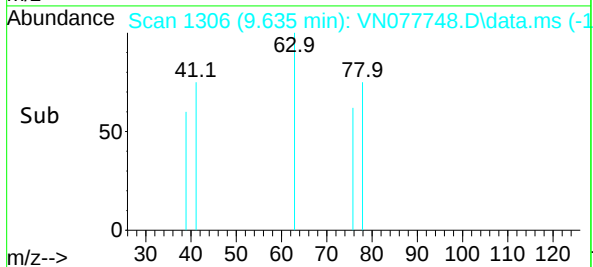
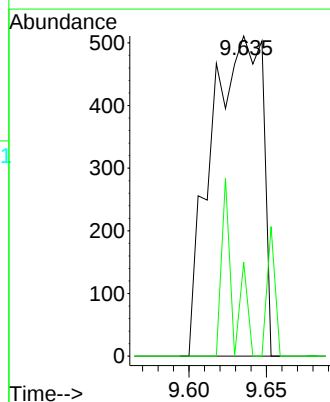
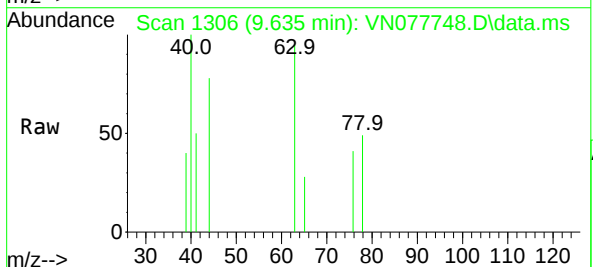
Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20230517

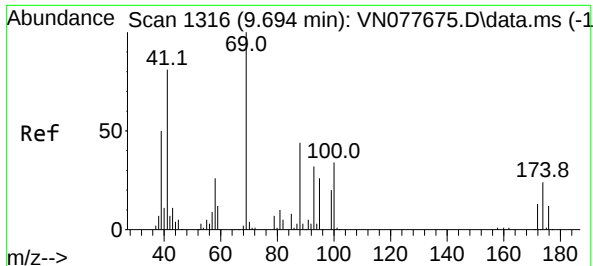
Tgt Ion:130 Resp: 562163
Ion Ratio Lower Upper
130 100
95 100.5 0.0 204.6



#45
1,2-Dichloropropane
Concen: 0.258 ug/l
RT: 9.635 min Scan# 1306
Delta R.T. 0.011 min
Lab File: VN077748.D
Acq: 18 May 2023 19:51

Tgt Ion: 63 Resp: 1169
Ion Ratio Lower Upper
63 100
65 29.4 23.9 35.9





#49

1,4-Dioxane

Concen: 6.939 ug/l

RT: 9.712 min Scan# 11

Delta R.T. 0.018 min

Lab File: VN077748.D

Acq: 18 May 2023 19:51

Instrument :

MSVOA_N

ClientSampleId :

RE125D3-20230517

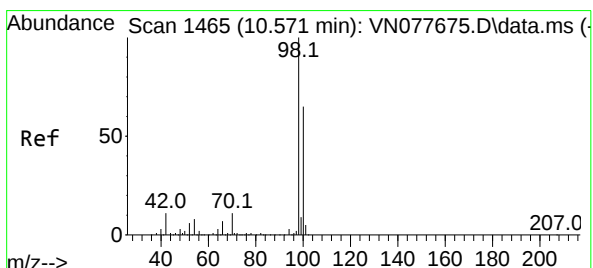
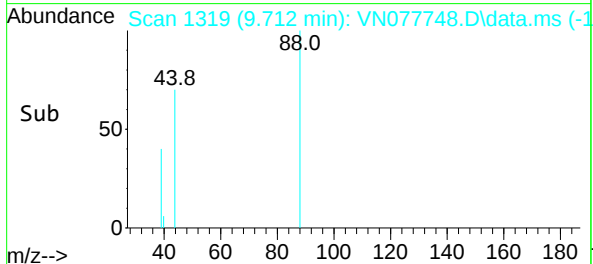
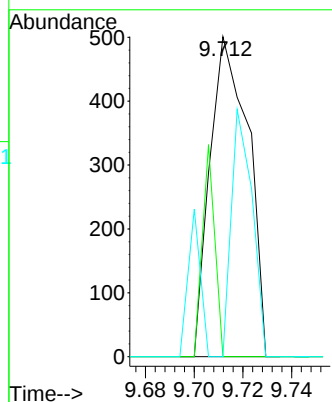
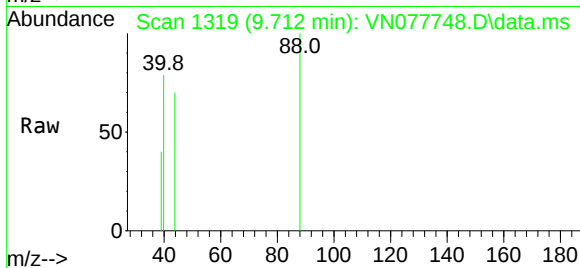
Tgt Ion: 88 Resp: 545

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 42.0 47.0 70.4#



#50

Toluene-d8

Concen: 49.660 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN077748.D

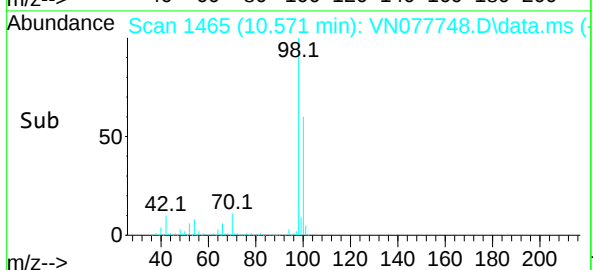
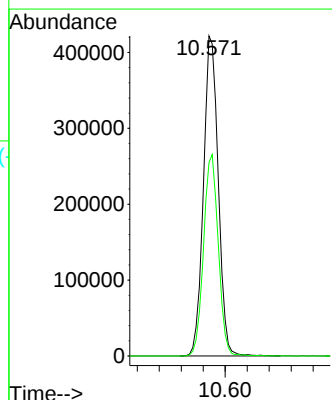
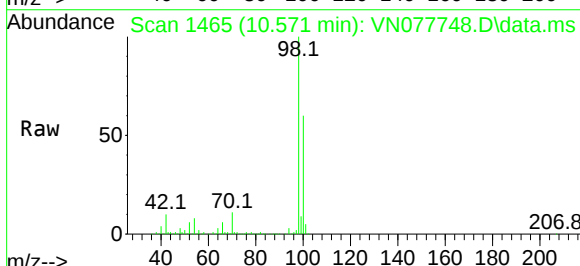
Acq: 18 May 2023 19:51

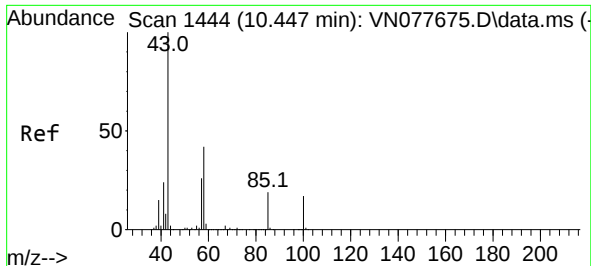
Tgt Ion: 98 Resp: 787316

Ion Ratio Lower Upper

98 100

100 62.6 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 0.672 ug/l

RT: 10.571 min Scan# 14

Delta R.T. 0.124 min

Lab File: VN077748.D

Acq: 18 May 2023 19:51

Instrument :

MSVOA_N

ClientSampleId :

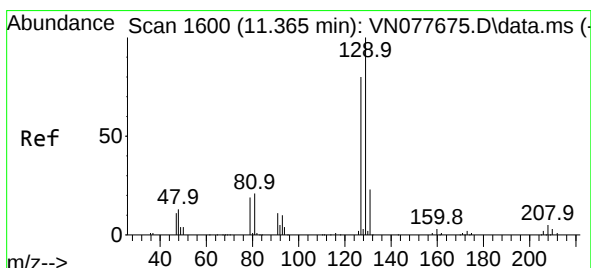
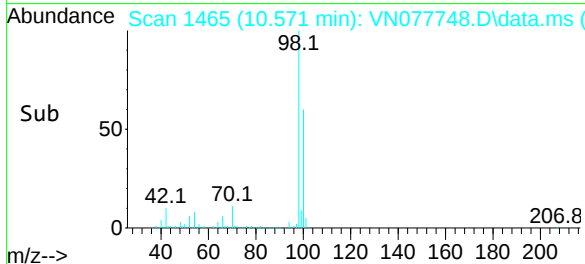
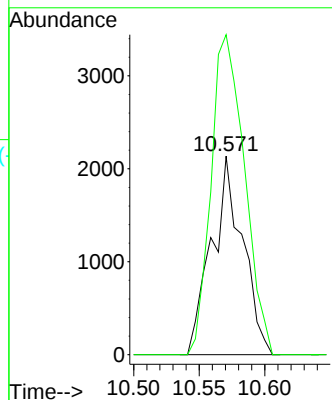
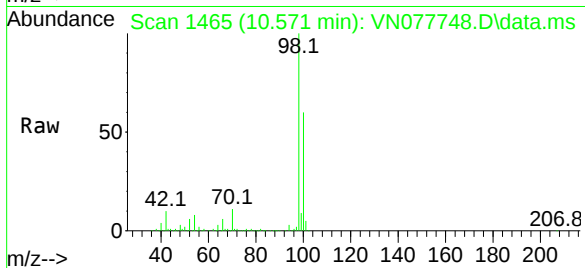
RE125D3-20230517

Tgt Ion: 43 Resp: 3505

Ion Ratio Lower Upper

43 100

58 174.4 36.6 54.8#



#60

Dibromochloromethane

Concen: 10.099 ug/l

RT: 11.112 min Scan# 1557

Delta R.T. -0.253 min

Lab File: VN077748.D

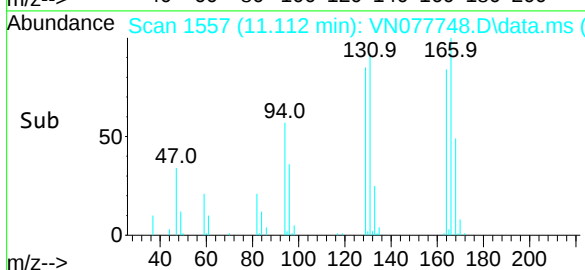
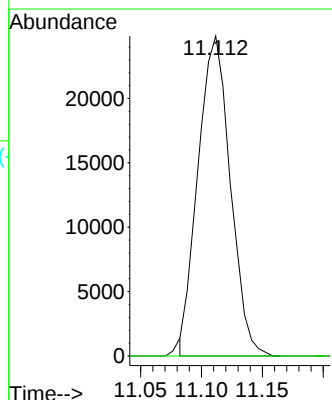
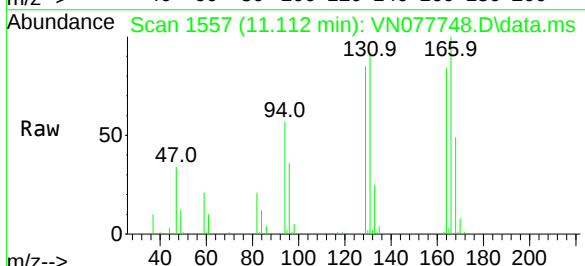
Acq: 18 May 2023 19:51

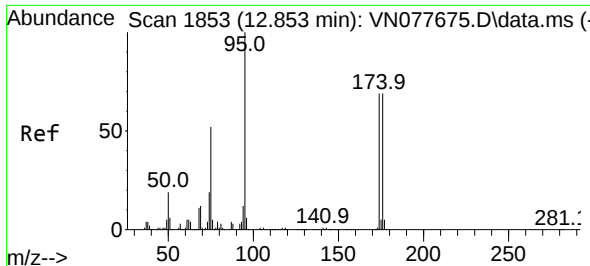
Tgt Ion: 129 Resp: 45815

Ion Ratio Lower Upper

129 100

127 0.0 38.6 116.0#

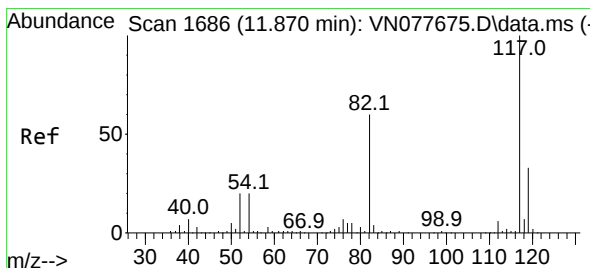
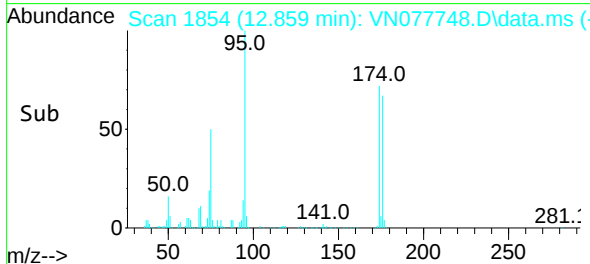
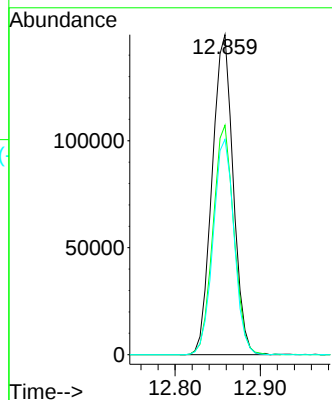
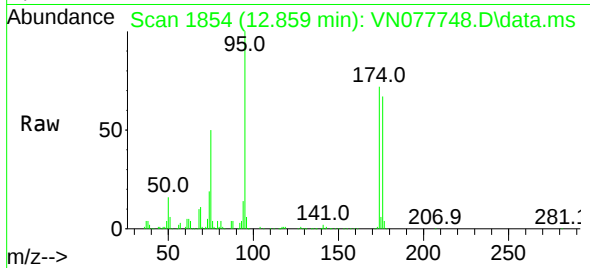




#62
4-Bromofluorobenzene
Concen: 45.876 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN077748.D
Acq: 18 May 2023 19:51

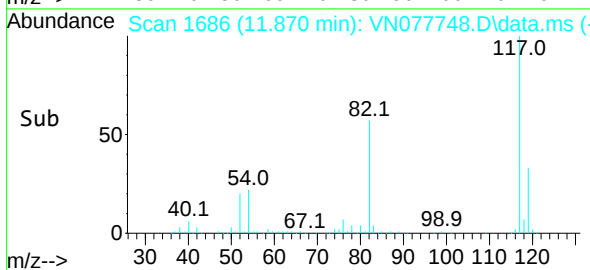
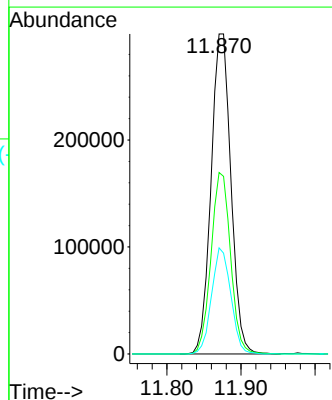
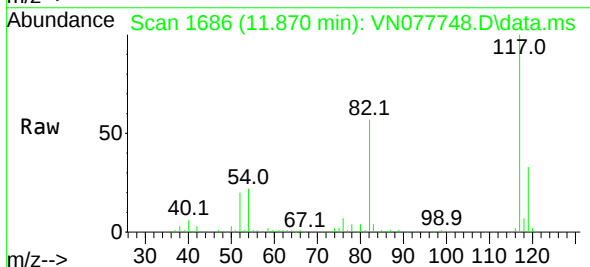
Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20230517

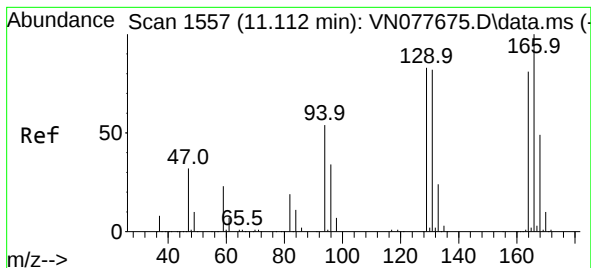
Tgt Ion: 95 Resp: 256874
Ion Ratio Lower Upper
95 100
174 71.4 0.0 143.8
176 67.0 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN077748.D
Acq: 18 May 2023 19:51

Tgt Ion: 117 Resp: 556745
Ion Ratio Lower Upper
117 100
82 56.7 44.0 66.0
119 33.2 25.6 38.4





#64

Tetrachloroethene

Concen: 11.510 ug/l

RT: 11.112 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN077748.D

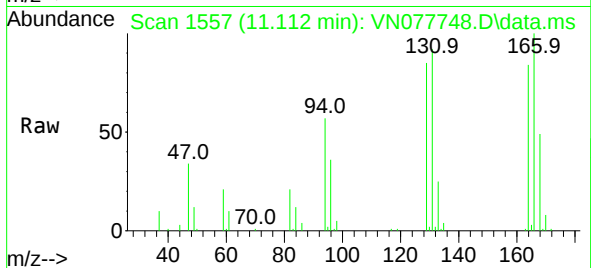
Acq: 18 May 2023 19:51

Instrument :

MSVOA_N

ClientSampleId :

RE125D3-20230517



Tgt Ion:164 Resp: 44815

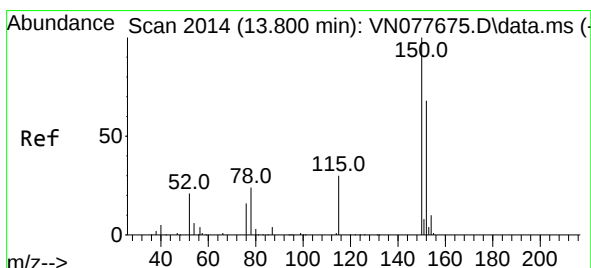
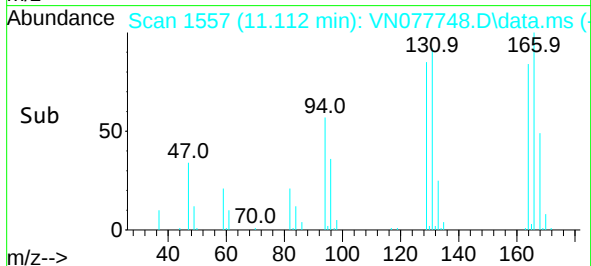
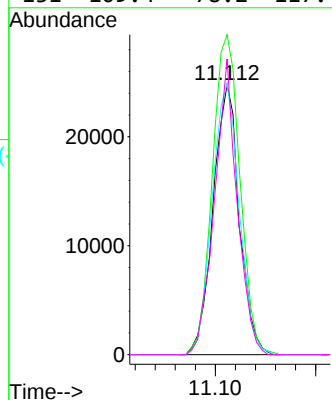
Ion Ratio Lower Upper

164 100

166 118.4 101.4 152.0

129 100.2 82.4 123.6

131 109.4 78.2 117.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. -0.000 min

Lab File: VN077748.D

Acq: 18 May 2023 19:51

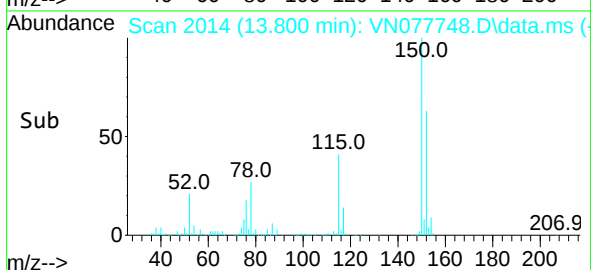
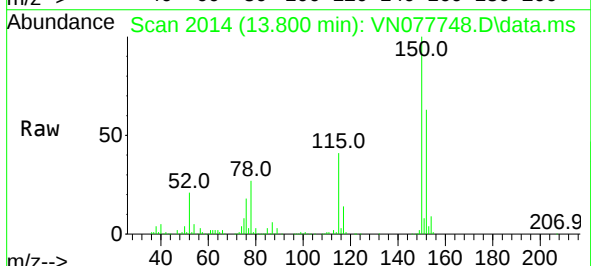
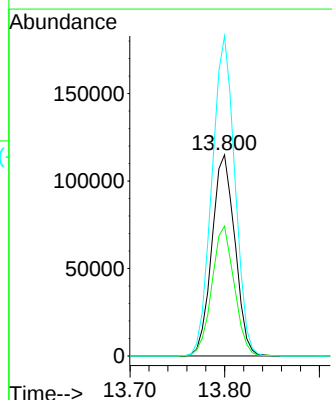
Tgt Ion:152 Resp: 194682

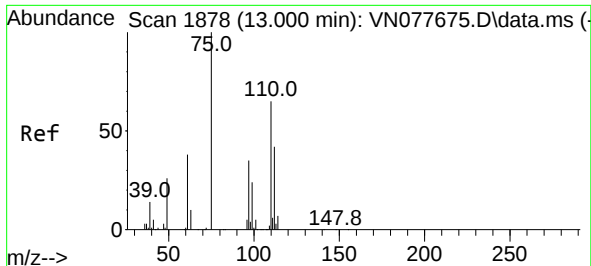
Ion Ratio Lower Upper

152 100

115 62.9 32.3 96.8

150 158.3 0.0 355.8

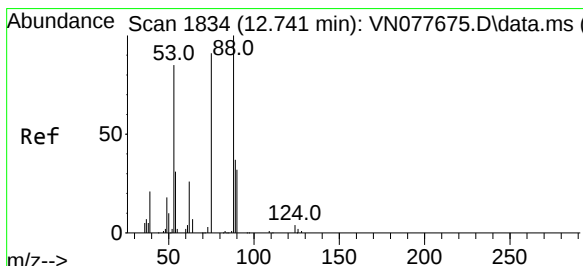
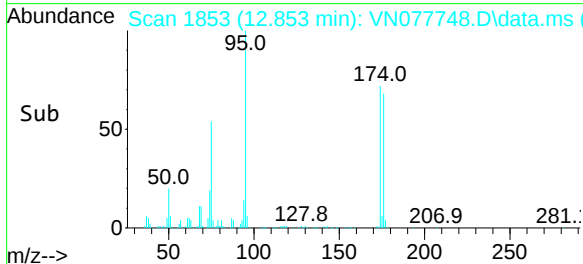
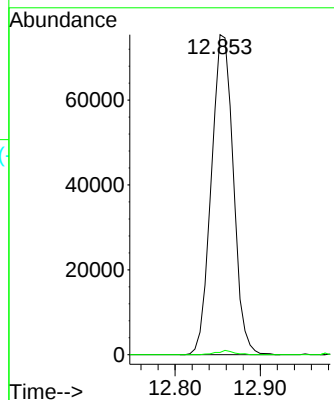
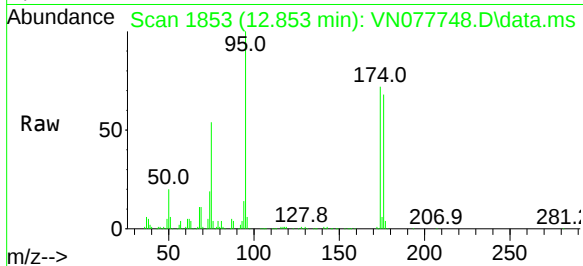




#76
1,2,3-Trichloropropane
Concen: 27.759 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN077748.D
Acq: 18 May 2023 19:51

Instrument :
MSVOA_N
ClientSampleId :
RE125D3-20230517

Tgt Ion: 75 Resp: 135339
Ion Ratio Lower Upper
75 100
77 1.0 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 88.732 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN077748.D
Acq: 18 May 2023 19:51

Tgt Ion: 75 Resp: 135339
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

