

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041522\
 Data File : VN072011.D
 Acq On : 15 Apr 2022 19:14
 Operator : JC\MD
 Sample : N2433-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Apr 15 23:29:25 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 24 12:03:44 2022
 Response via : Initial Calibration

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

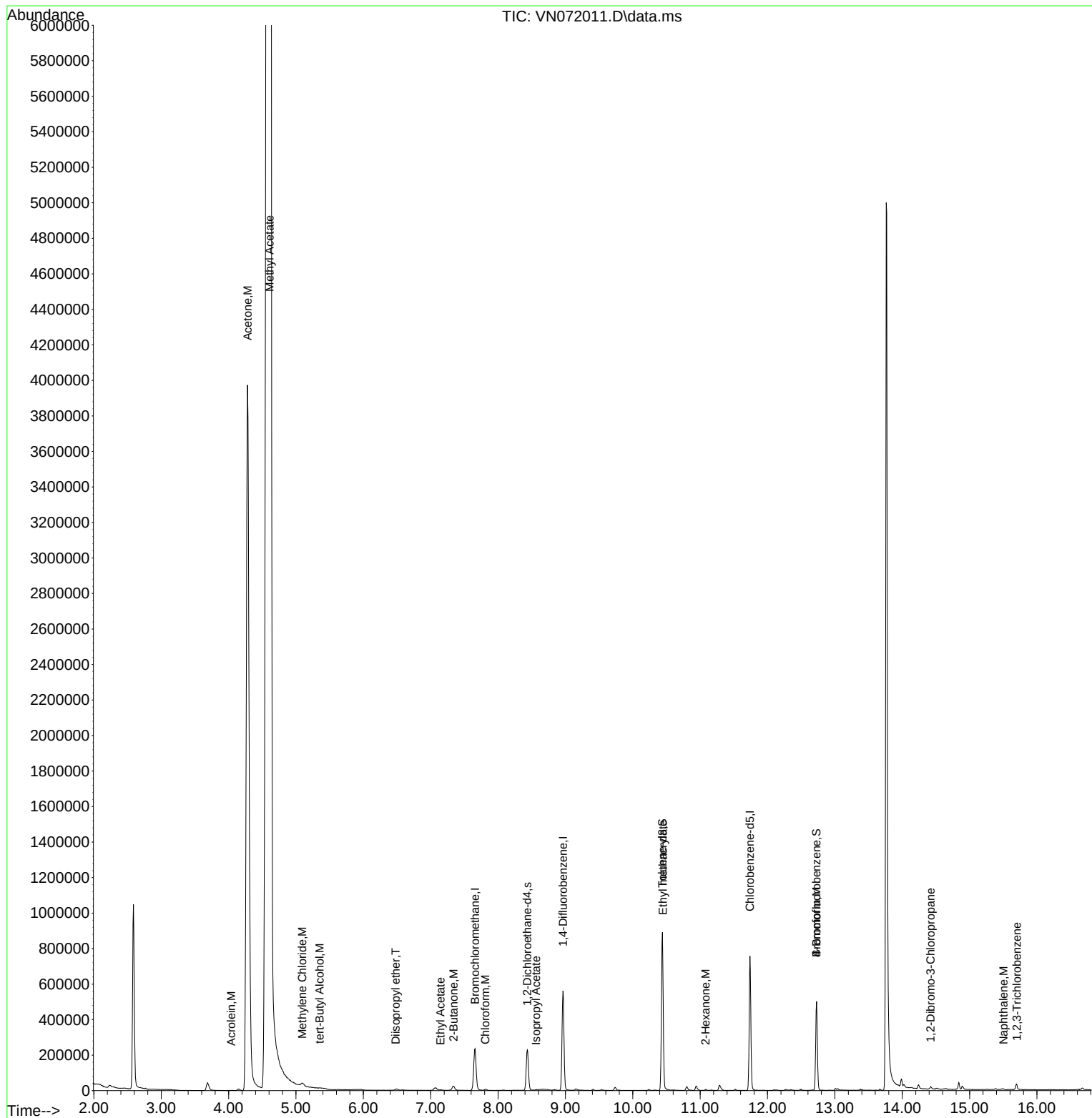
Internal Standards						
1) Bromochloromethane	7.657	128	94858	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	520534	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	462610	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.434	65	192158	28.752	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.833%		
60) 4-Bromofluorobenzene	12.727	95	178552	26.030	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	86.767%		
63) Toluene-d8	10.439	98	615464	29.308	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.700%		
Target Compounds						Qvalue
12) Methyl Acetate	4.610	43	11634928	1502.276	ug/l #	49
13) Acrolein	4.040	56	632	0.767	ug/l #	72
15) Acetone	4.281	58	2718493	2693.037	ug/l	74
18) Methylene Chloride	5.093	84	13991	2.122	ug/l	86
20) Diisopropyl ether	6.481	45	4712	0.253	ug/l #	81
23) tert-Butyl Alcohol	5.351	59	724	0.578	ug/l #	100
25) Chloroform	7.810	83	6746	0.596	ug/l	100
30) 2-Butanone	7.340	43	38183	8.142	ug/l #	80
43) Ethyl Acetate	7.145	43	3392	0.373	ug/l	99
44) Isopropyl Acetate	8.563	43	4276	0.293	ug/l #	59
51) Ethyl methacrylate	10.445	69	2434	0.238	ug/l #	1
56) Bromoform	12.727	173	1657	0.313	ug/l #	1
59) 2-Hexanone	11.081	43	3589	0.560	ug/l #	95
88) 1,2-Dibromo-3-Chloropr...	14.421	75	522	0.305	ug/l #	5
91) Naphthalene	15.504	128	3338	7.041	ug/l #	89
92) 1,2,3-Trichlorobenzene	15.704	180	1157	0.224	ug/l #	71

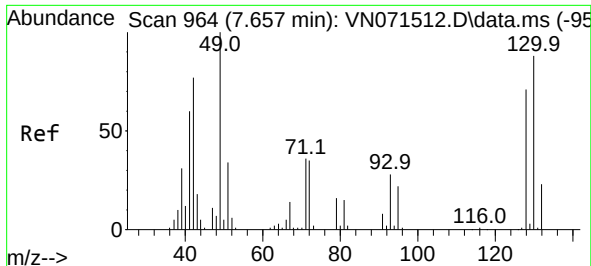
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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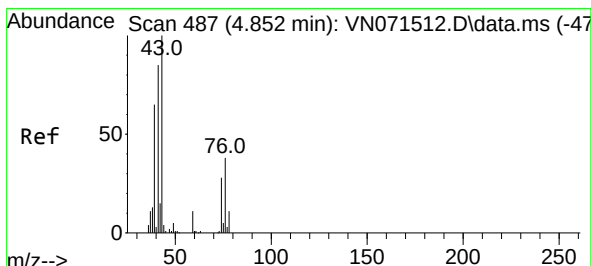
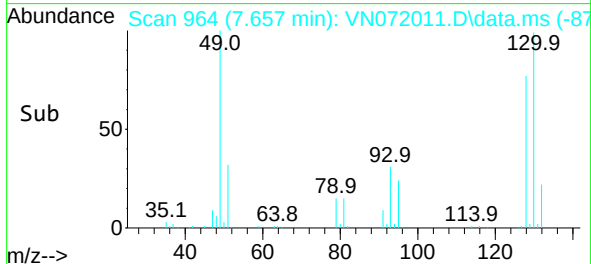
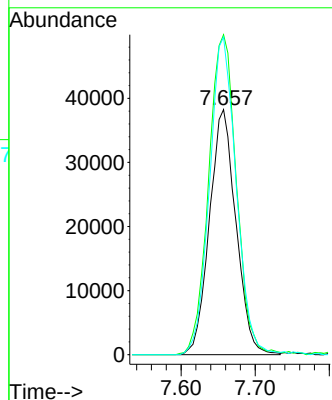
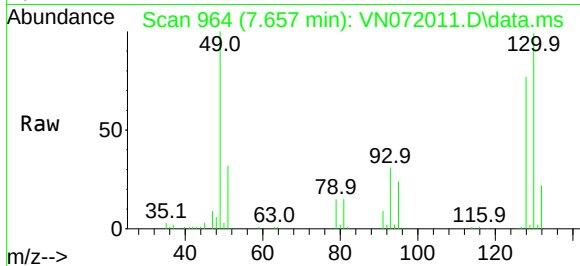




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.657 min Scan# 90
Delta R.T. 0.000 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

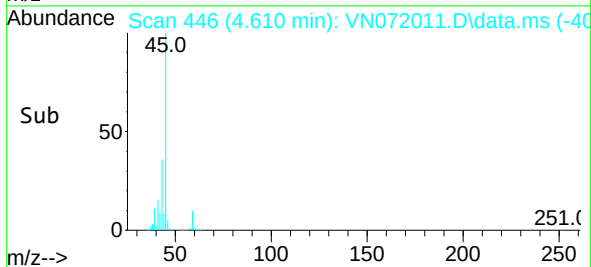
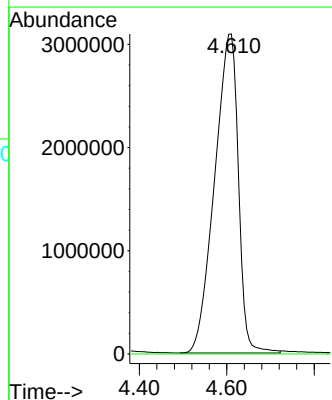
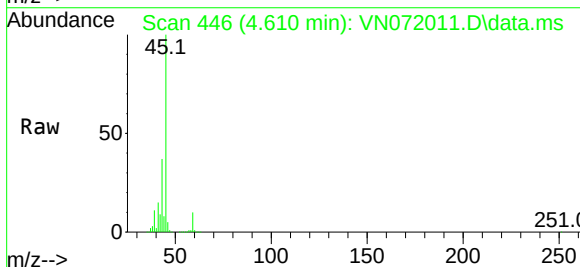
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

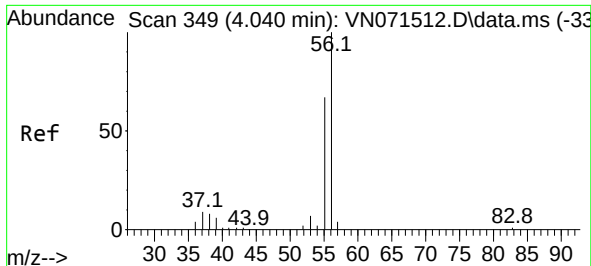
Tgt Ion:128 Resp: 94858
Ion Ratio Lower Upper
128 100
49 136.2 0.0 392.3
130 130.4 0.0 320.2



#12
Methyl Acetate
Concen: 1502.276 ug/l
RT: 4.610 min Scan# 446
Delta R.T. -0.241 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

Tgt Ion: 43 Resp:11634928
Ion Ratio Lower Upper
43 100
74 0.0 20.8 31.2#

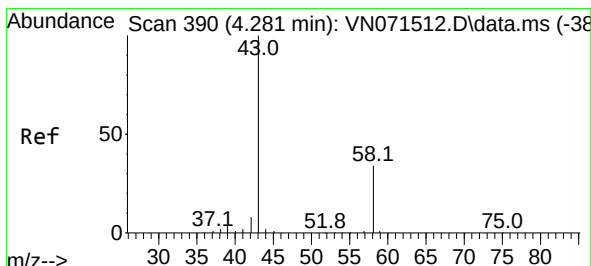
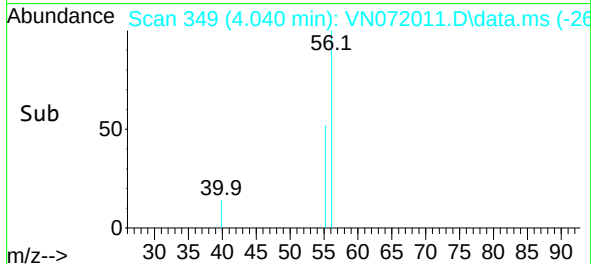
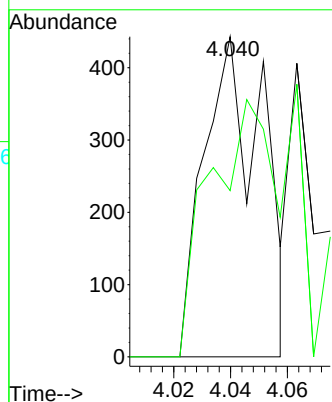
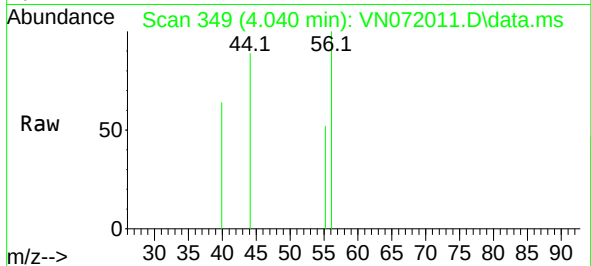




#13
Acrolein
Concen: 0.767 ug/l
RT: 4.040 min Scan# 349
Delta R.T. -0.000 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

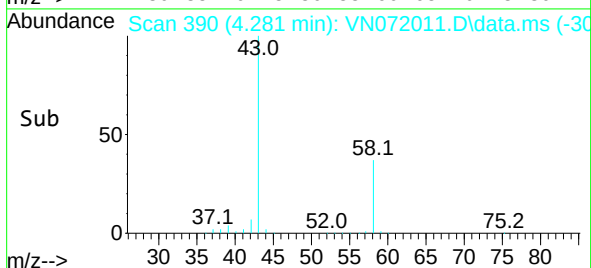
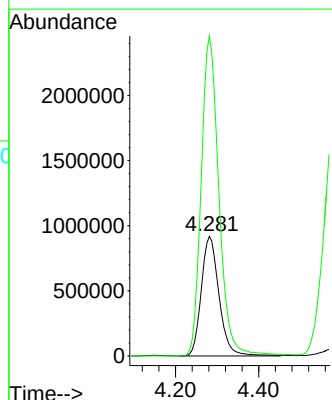
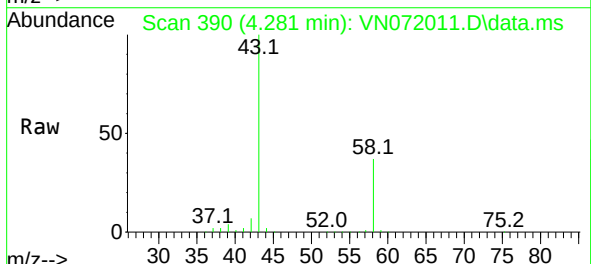
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

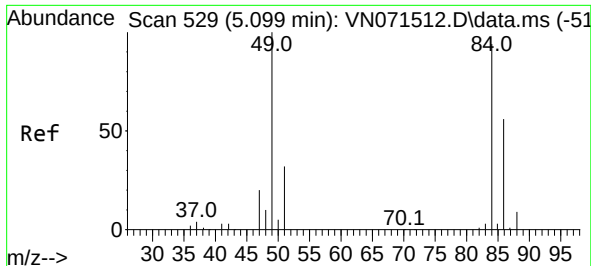
Tgt Ion: 56 Resp: 632
Ion Ratio Lower Upper
56 100
55 48.3 57.6 86.4#



#15
Acetone
Concen: 2693.037 ug/l
RT: 4.281 min Scan# 390
Delta R.T. -0.000 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

Tgt Ion: 58 Resp: 2718493
Ion Ratio Lower Upper
58 100
43 267.6 256.6 384.8





#18

Methylene Chloride

Concen: 2.122 ug/l

RT: 5.093 min Scan# 51

Delta R.T. -0.006 min

Lab File: VN072011.D

Acq: 15 Apr 2022 19:14

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

Tgt Ion: 84 Resp: 13991

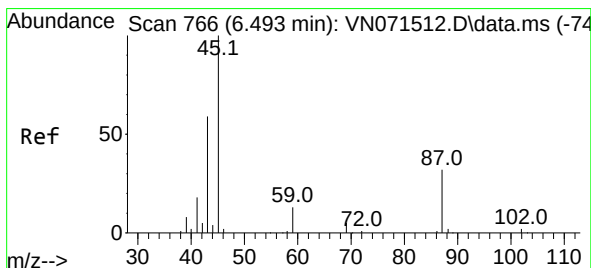
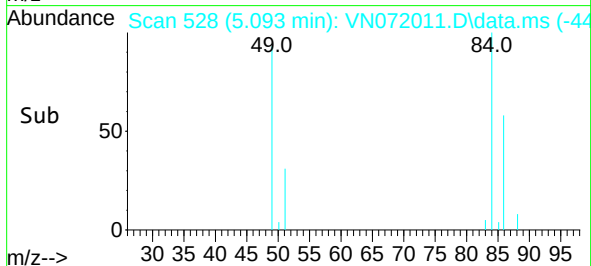
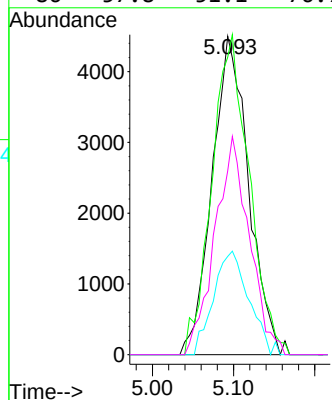
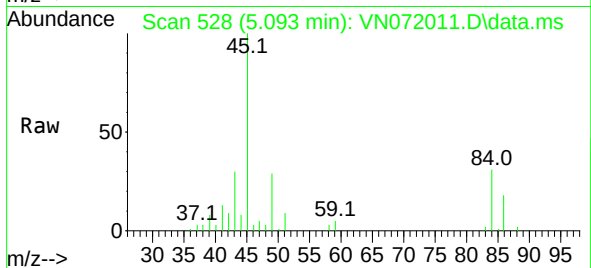
Ion Ratio Lower Upper

84 100

49 93.4 91.4 137.0

51 30.8 29.4 44.0

86 57.8 51.1 76.7



#20

Diisopropyl ether

Concen: 0.253 ug/l

RT: 6.481 min Scan# 764

Delta R.T. -0.012 min

Lab File: VN072011.D

Acq: 15 Apr 2022 19:14

Tgt Ion: 45 Resp: 4712

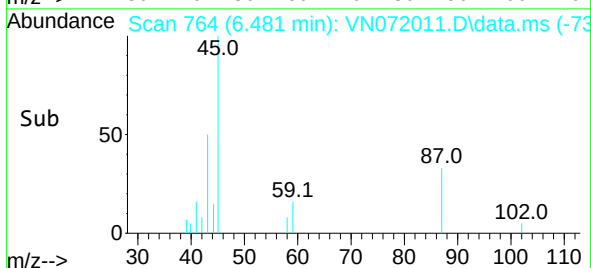
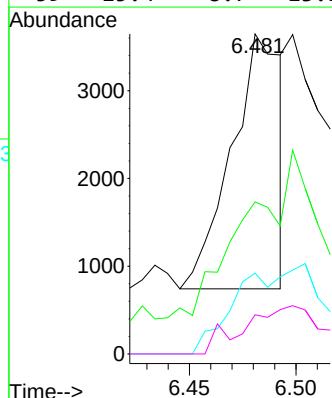
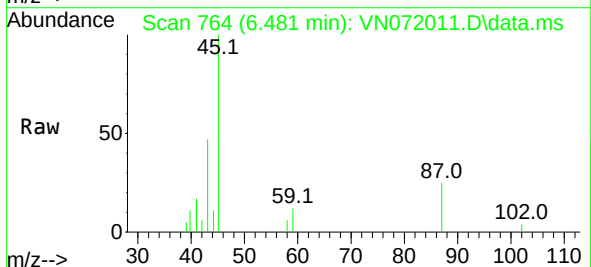
Ion Ratio Lower Upper

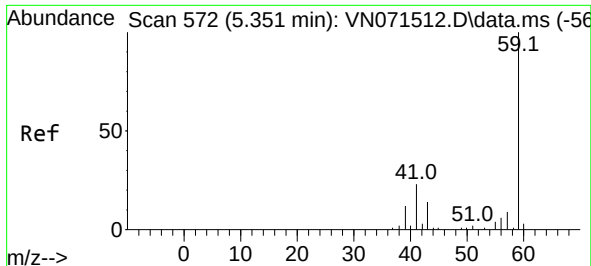
45 100

43 41.5 51.0 76.4#

87 31.7 25.0 37.4

59 15.4 8.7 13.1#

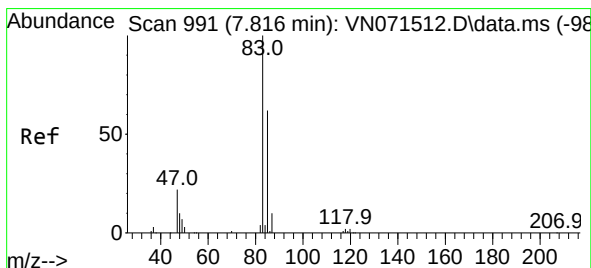
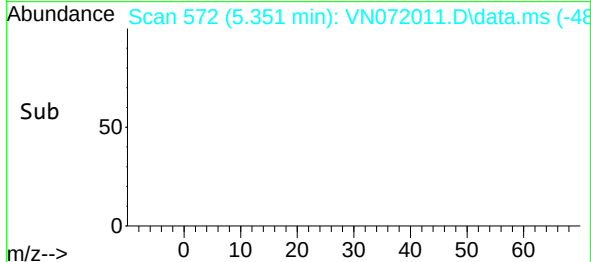
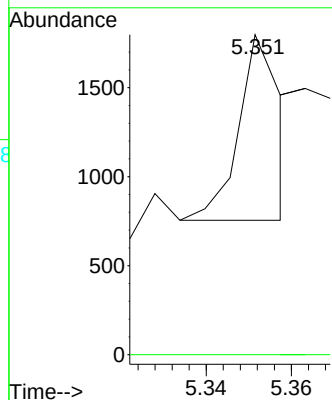
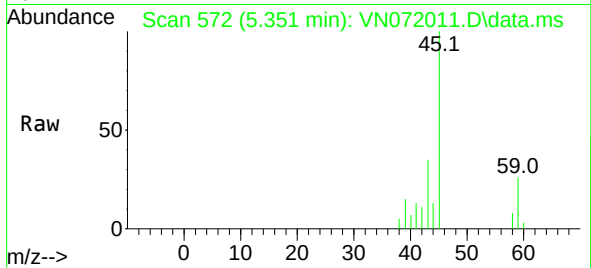




#23
tert-Butyl Alcohol
Concen: 0.578 ug/l
RT: 5.351 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

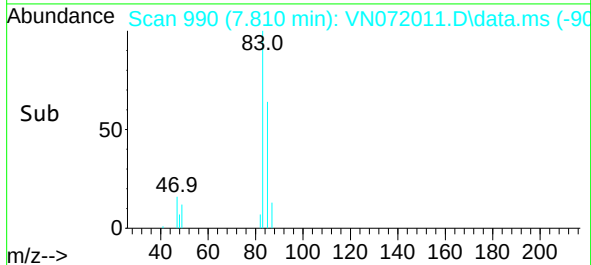
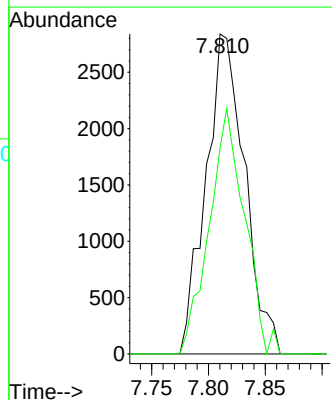
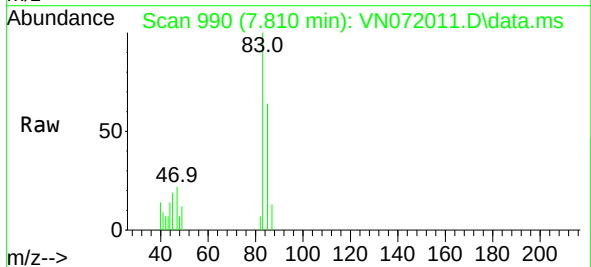
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

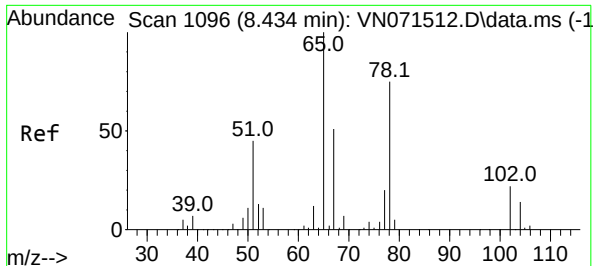
Tgt Ion: 59 Resp: 724
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 0.596 ug/l
RT: 7.810 min Scan# 990
Delta R.T. -0.006 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

Tgt Ion: 83 Resp: 6746
Ion Ratio Lower Upper
83 100
85 64.4 51.3 76.9

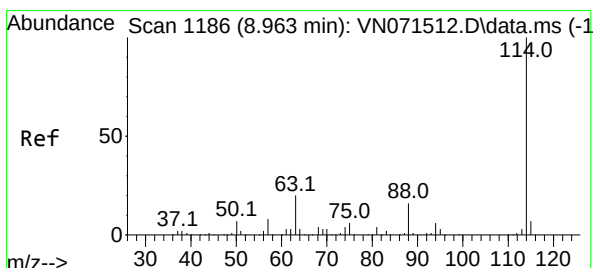
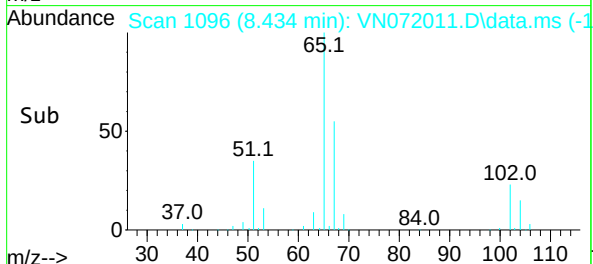
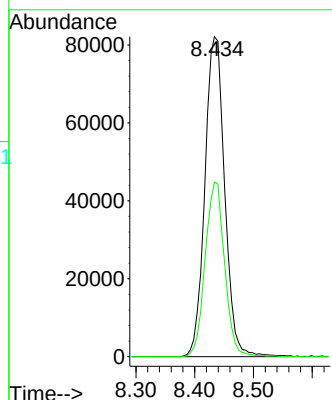
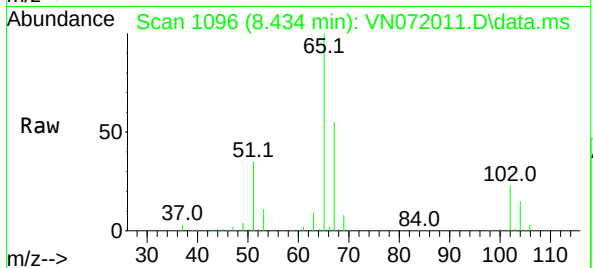




#27
1,2-Dichloroethane-d4
Concen: 28.752 ug/l
RT: 8.434 min Scan# 1096
Delta R.T. -0.000 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

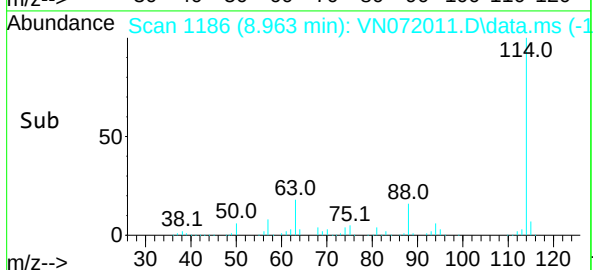
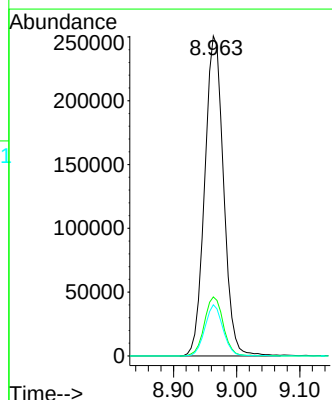
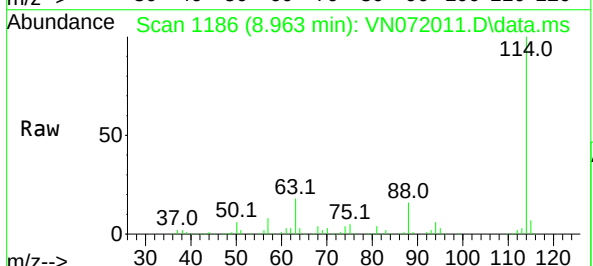
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

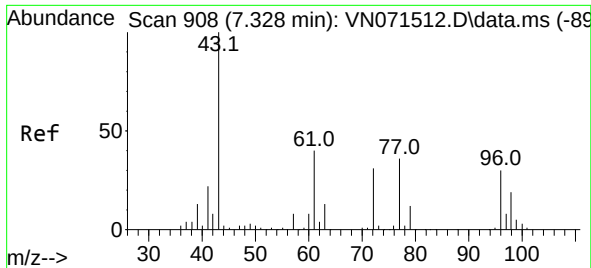
Tgt Ion: 65 Resp: 192158
Ion Ratio Lower Upper
65 100
67 53.3 40.2 60.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

Tgt Ion: 114 Resp: 520534
Ion Ratio Lower Upper
114 100
63 18.3 15.8 23.6
88 15.3 11.6 17.4

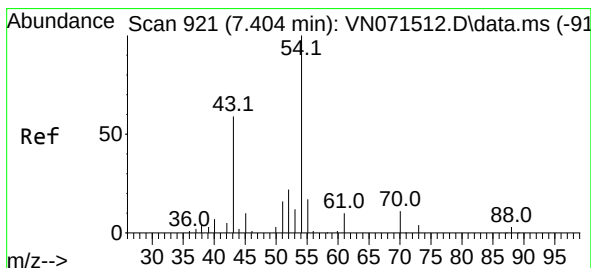
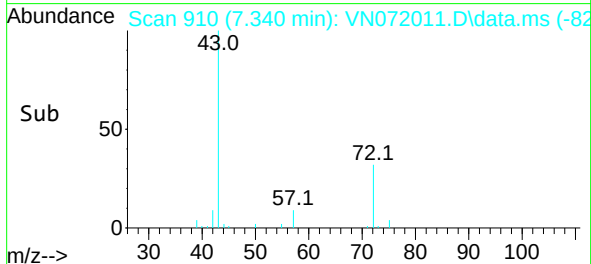
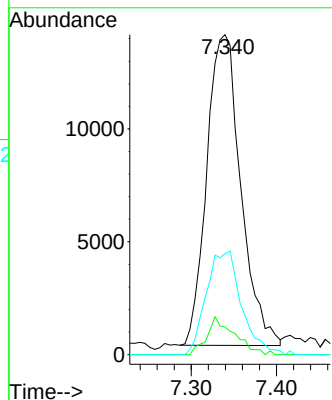
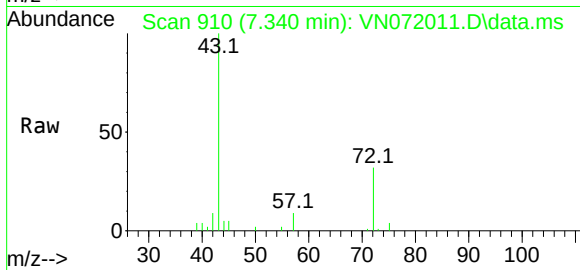




#30
2-Butanone
Concen: 8.142 ug/l
RT: 7.340 min Scan# 910
Delta R.T. 0.012 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

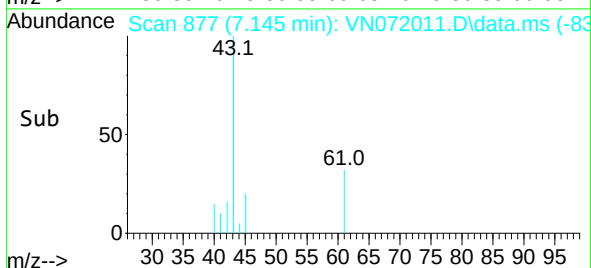
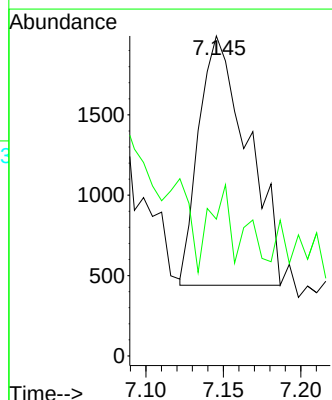
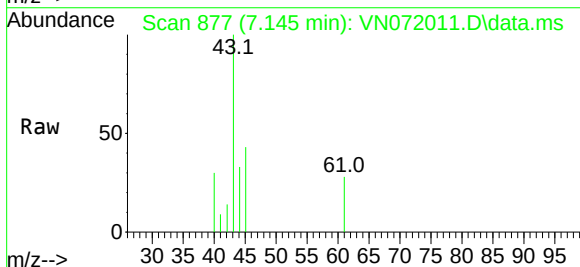
Instrument :
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EFF-WW

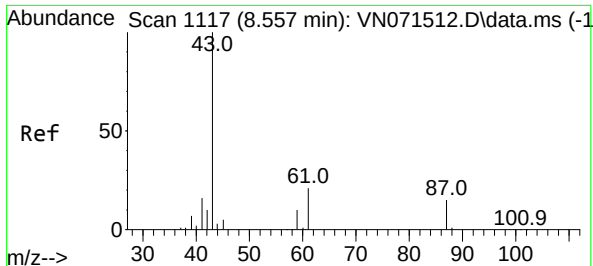
Tgt Ion: 43 Resp: 38183
Ion Ratio Lower Upper
43 100
57 9.6 6.7 10.1
72 15.7 23.2 34.8#



#43
Ethyl Acetate
Concen: 0.373 ug/l
RT: 7.145 min Scan# 877
Delta R.T. -0.259 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

Tgt Ion: 43 Resp: 3392
Ion Ratio Lower Upper
43 100
45 13.9 10.6 16.0





#44

Isopropyl Acetate

Concen: 0.293 ug/l

RT: 8.563 min Scan# 1118

Delta R.T. 0.006 min

Lab File: VN072011.D

Acq: 15 Apr 2022 19:14

Instrument :

MSVOA_N

ClientSampleId :

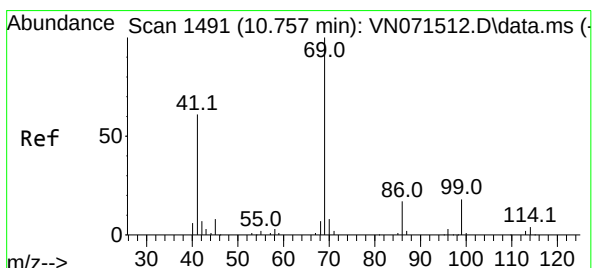
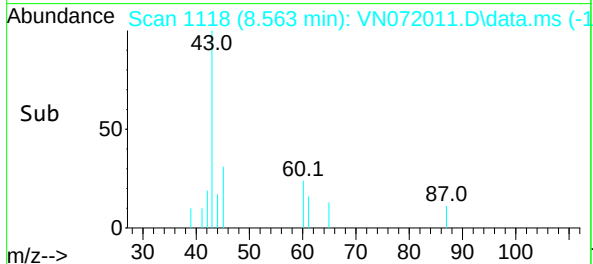
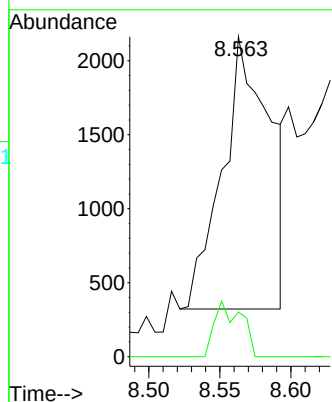
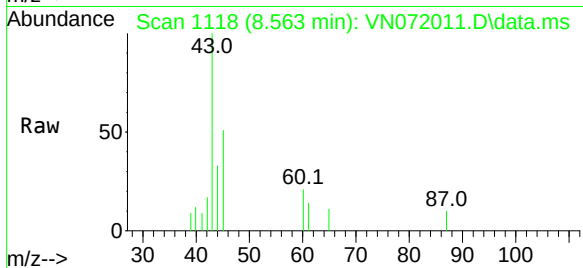
EFF-WW

Tgt Ion: 43 Resp: 4276

Ion Ratio Lower Upper

43 100

61 4.7 20.1 30.1#



#51

Ethyl methacrylate

Concen: 0.238 ug/l

RT: 10.445 min Scan# 1438

Delta R.T. -0.312 min

Lab File: VN072011.D

Acq: 15 Apr 2022 19:14

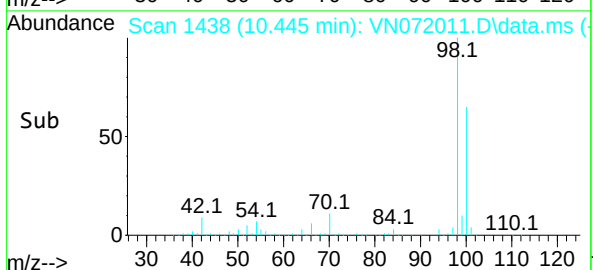
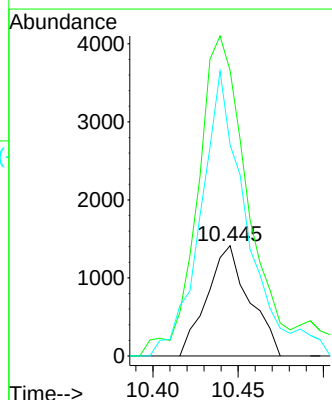
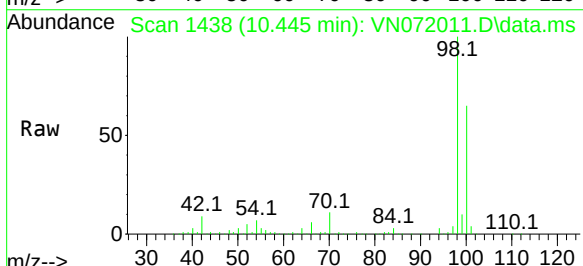
Tgt Ion: 69 Resp: 2434

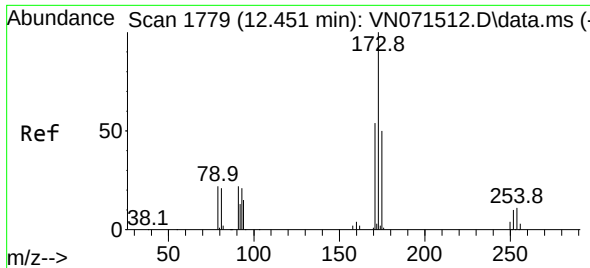
Ion Ratio Lower Upper

69 100

41 229.0 33.0 98.9#

39 166.1 25.4 76.4#

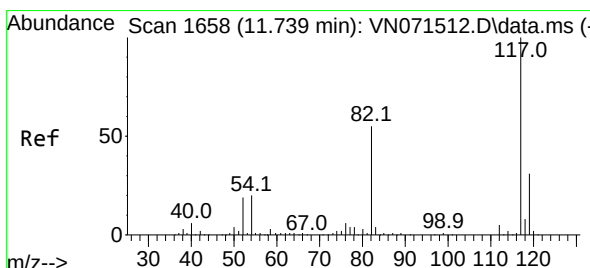
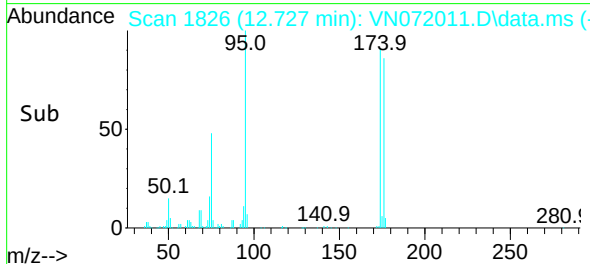
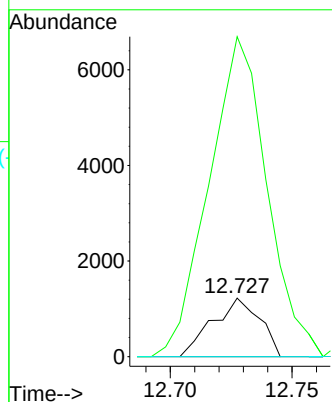
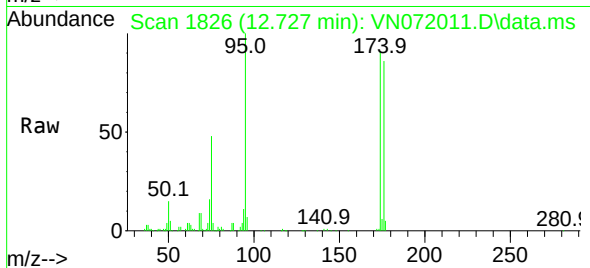




#56
Bromoform
Concen: 0.313 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.276 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

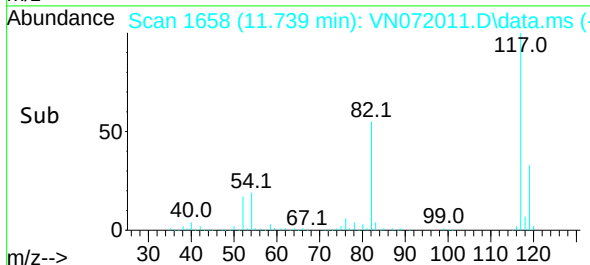
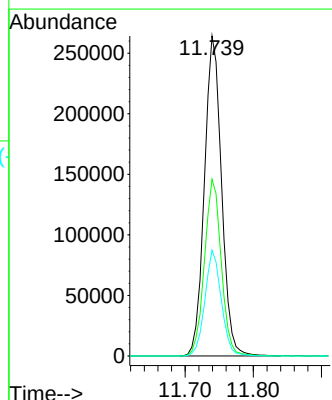
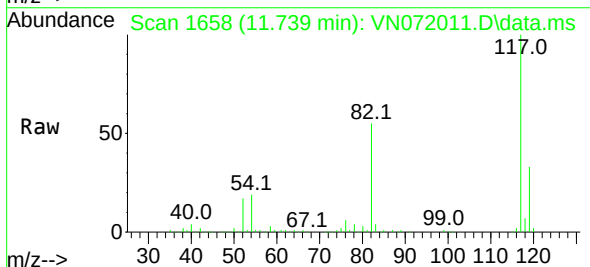
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

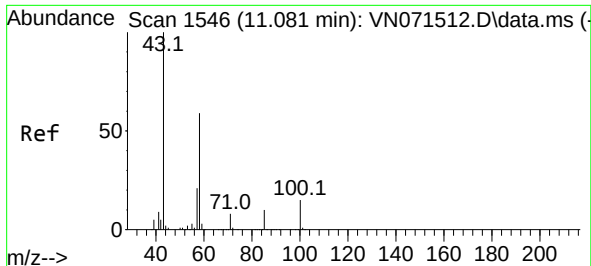
Tgt Ion:173 Resp: 1657
Ion Ratio Lower Upper
173 100
175 669.5 38.6 58.0#
254 0.0 0.0 0.0



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

Tgt Ion:117 Resp: 462610
Ion Ratio Lower Upper
117 100
82 54.0 43.6 65.4
119 31.5 25.8 38.6

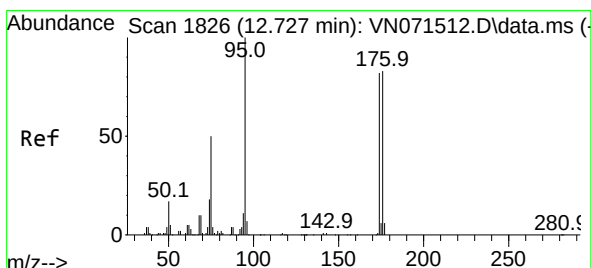
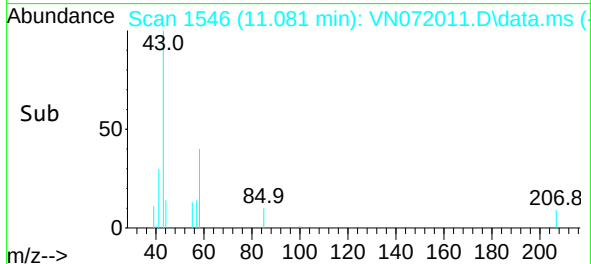
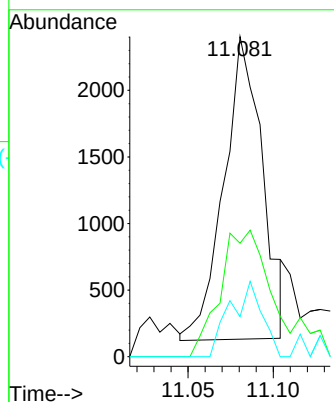
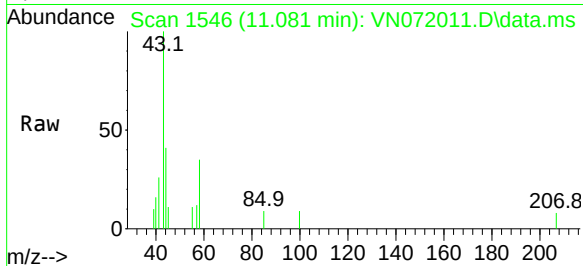




#59
2-Hexanone
Concen: 0.560 ug/l
RT: 11.081 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

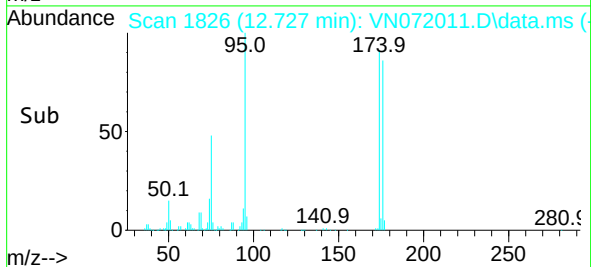
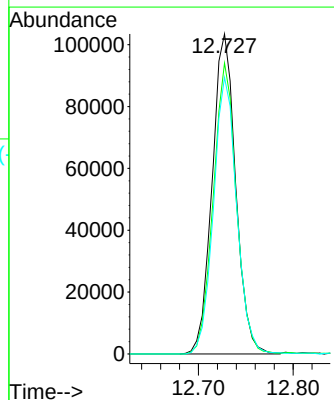
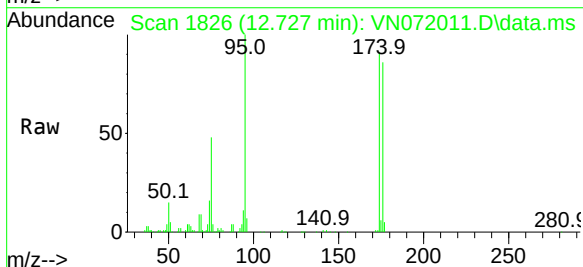
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

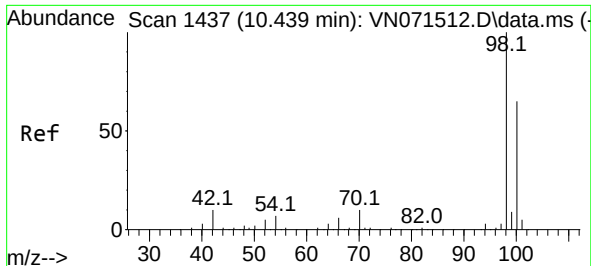
Tgt Ion: 43 Resp: 3589
Ion Ratio Lower Upper
43 100
58 52.7 42.2 63.2
57 10.9 15.0 22.4#



#60
4-Bromofluorobenzene
Concen: 26.030 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

Tgt Ion: 95 Resp: 178552
Ion Ratio Lower Upper
95 100
174 89.1 62.9 94.3
176 85.3 61.0 91.4

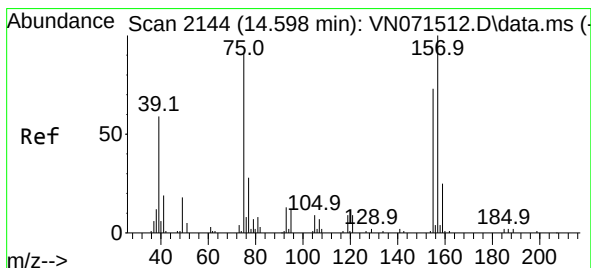
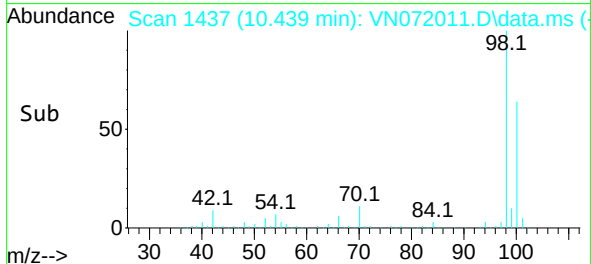
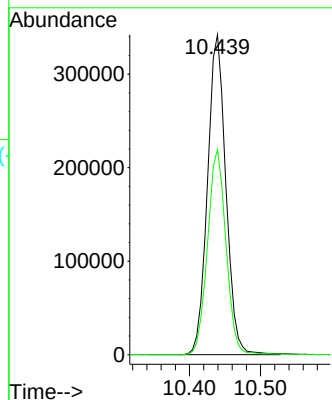
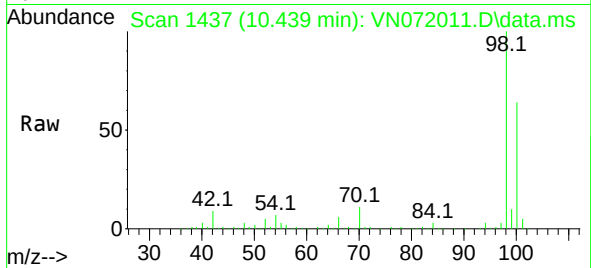




#63
Toluene-d8
Concen: 29.308 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

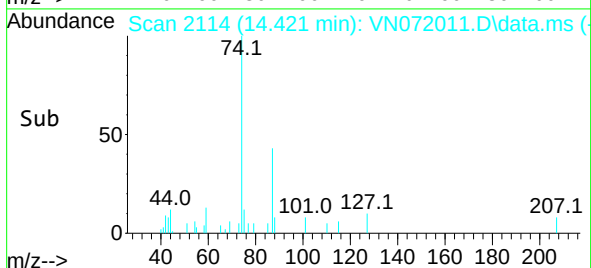
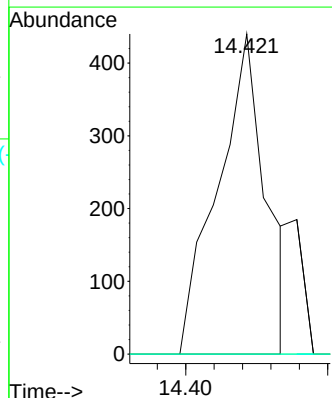
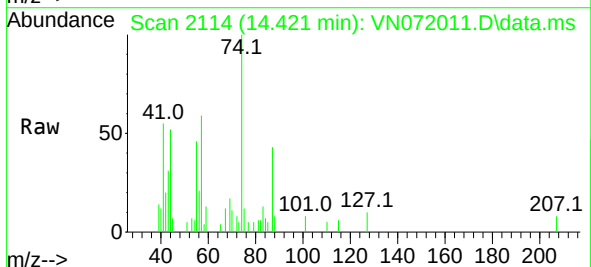
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

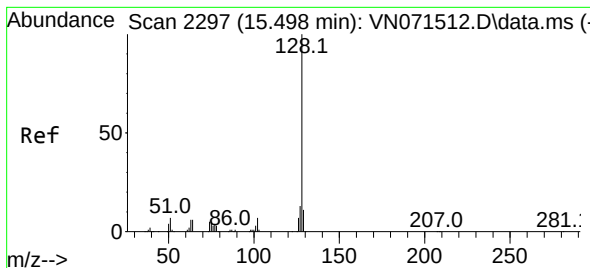
Tgt Ion: 98 Resp: 615464
Ion Ratio Lower Upper
98 100
100 64.2 50.6 76.0



#88
1,2-Dibromo-3-Chloropropane
Concen: 0.305 ug/l
RT: 14.421 min Scan# 2114
Delta R.T. -0.176 min
Lab File: VN072011.D
Acq: 15 Apr 2022 19:14

Tgt Ion: 75 Resp: 522
Ion Ratio Lower Upper
75 100
155 0.0 63.8 95.8#
157 0.0 77.9 116.9#





#91

Naphthalene

Concen: 7.041 ug/l

RT: 15.504 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN072011.D

Acq: 15 Apr 2022 19:14

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

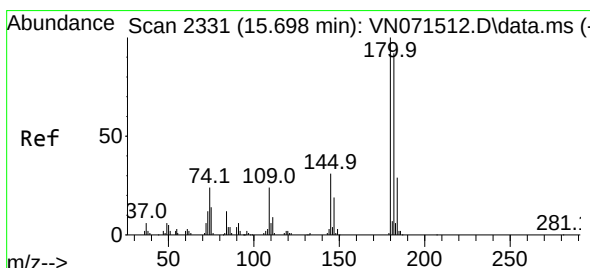
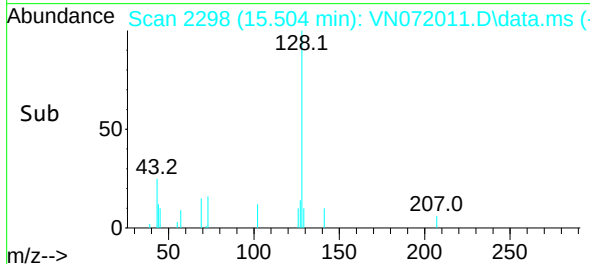
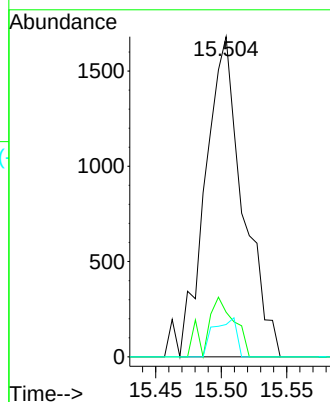
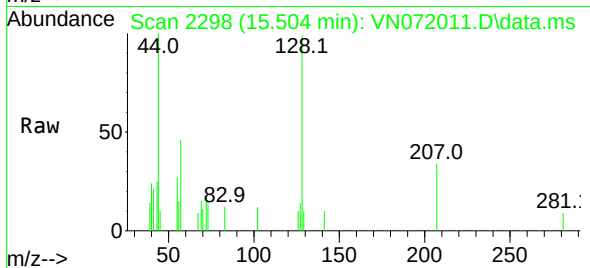
Tgt Ion:128 Resp: 3338

Ion Ratio Lower Upper

128 100

127 11.8 10.7 16.1

129 4.0 9.0 13.6#



#92

1,2,3-Trichlorobenzene

Concen: 0.224 ug/l

RT: 15.704 min Scan# 2332

Delta R.T. 0.006 min

Lab File: VN072011.D

Acq: 15 Apr 2022 19:14

Tgt Ion:180 Resp: 1157

Ion Ratio Lower Upper

180 100

182 77.8 0.0 190.0

145 0.0 0.0 67.8

