

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111524\
 Data File : VN084880.D
 Acq On : 15 Nov 2024 19:36
 Operator : JC\MD
 Sample : P4762-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Nov 15 22:30:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

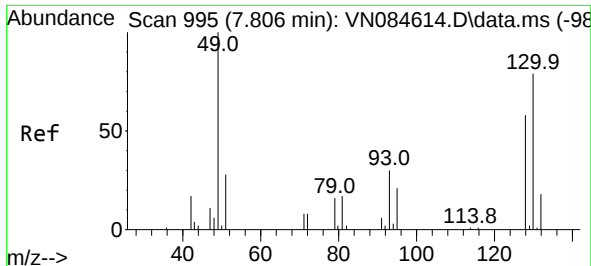
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.812	128	27425	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	140972	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	134154	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	64789	29.385	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.967%
60) 4-Bromofluorobenzene	12.847	95	65412	28.318	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.400%
63) Toluene-d8	10.565	98	173751	27.359	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	91.200%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	431	0.224	ug/l #	43
5) Bromomethane	2.901	94	209	0.231	ug/l	83
6) Chloroethane	3.065	64	286	0.244	ug/l #	47
12) Methyl Acetate	5.012	43	2229	0.895	ug/l #	52
15) Acetone	4.424	58	76741	366.457	ug/l	97
20) Diisopropyl ether	6.671	45	121988	22.375	ug/l	99
25) Chloroform	7.965	83	15310	4.558	ug/l	96
26) Cyclohexane	7.971	56	3374	1.347	ug/l #	9
30) 2-Butanone	7.477	43	928	0.947	ug/l #	82
36) 1,2-Dichloroethane	9.094	62	5328	2.283	ug/l #	74
38) Methylcyclohexane	9.659	83	2146	0.939	ug/l #	1
41) Bromodichloromethane	9.888	83	1717	0.678	ug/l #	91
42) Vinyl Acetate	6.677	43	67917	18.551	ug/l #	71
44) Isopropyl Acetate	8.706	43	2778	0.667	ug/l	97
45) 1,4-Dioxane	9.653	88	511	18.366	ug/l #	1
46) Methyl methacrylate	9.653	41	8934	5.335	ug/l #	27
48) t-1,3-Dichloropropene	11.200	75	26779	10.704	ug/l #	46
49) cis-1,3-Dichloropropene	10.359	75	3295	1.229	ug/l #	70
50) 1,1,2-Trichloroethane	10.571	97	5994	3.781	ug/l #	1
51) Ethyl methacrylate	10.571	69	668	0.273	ug/l #	55
58) 4-Methyl-2-Pentanone	10.447	43	912	0.431	ug/l #	43
59) 2-Hexanone	11.200	43	14682	9.474	ug/l #	1
71) 1,1,2,2-Tetrachloroethane	12.953	83	564	0.236	ug/l #	24
72) 1,2,3-Trichloropropane	12.853	75	33910	16.631	ug/l	1

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

Quant Time: Nov 15 22:30:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Nov 01 02:38:04 2024
Response via : Initial Calibration

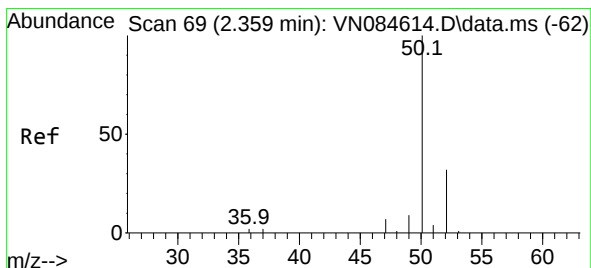
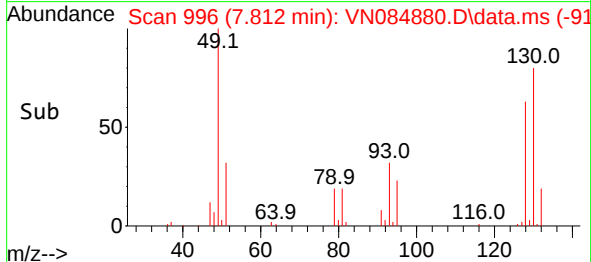
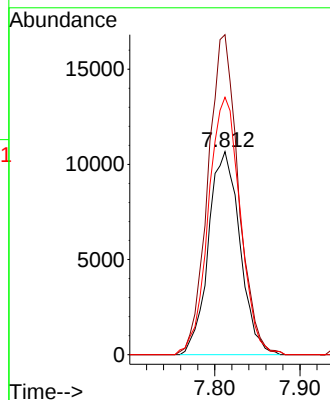
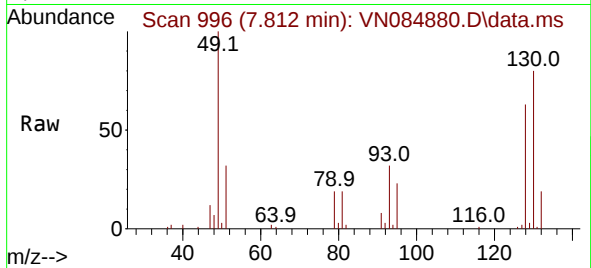




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 995
Delta R.T. 0.006 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

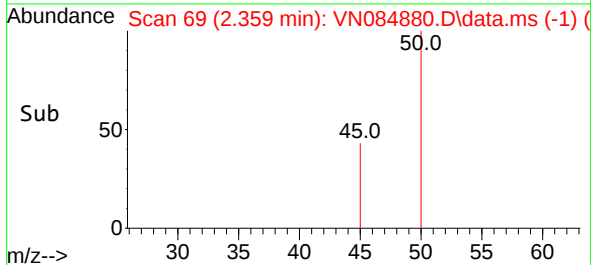
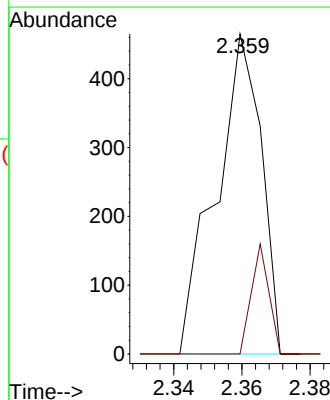
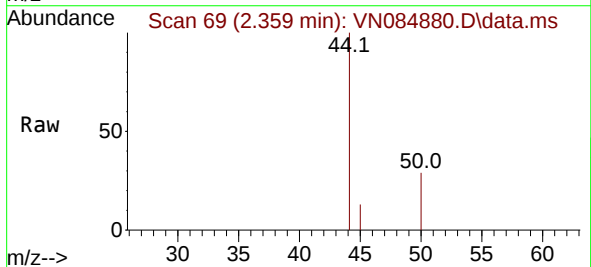
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

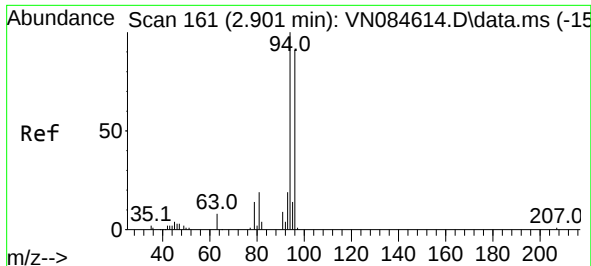
Tgt Ion:128 Resp: 27425
Ion Ratio Lower Upper
128 100
49 152.3 0.0 427.0
130 128.0 0.0 322.2



#3
Chloromethane
Concen: 0.224 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

Tgt Ion: 50 Resp: 431
Ion Ratio Lower Upper
50 100
52 0.0 25.5 38.3#

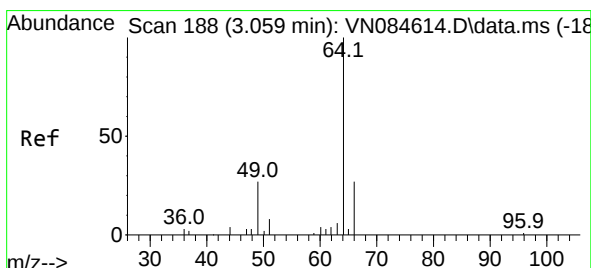
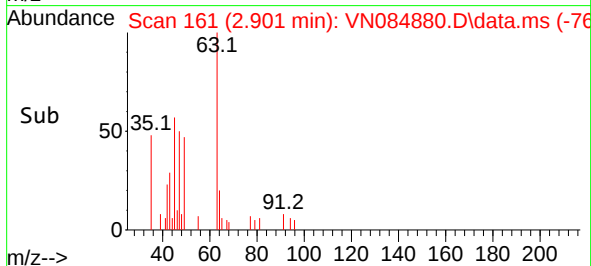
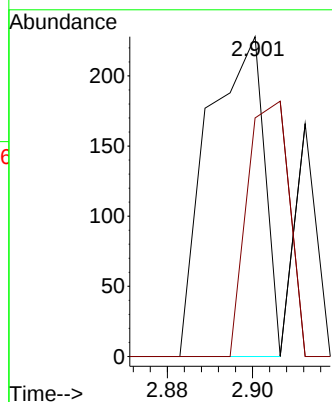
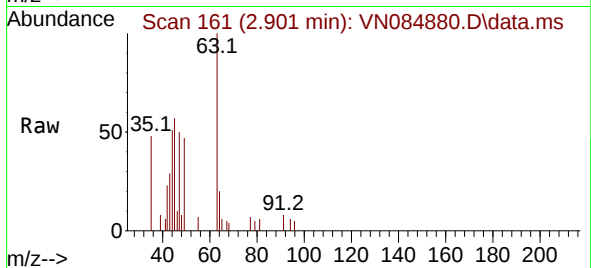




#5
Bromomethane
Concen: 0.231 ug/l
RT: 2.901 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

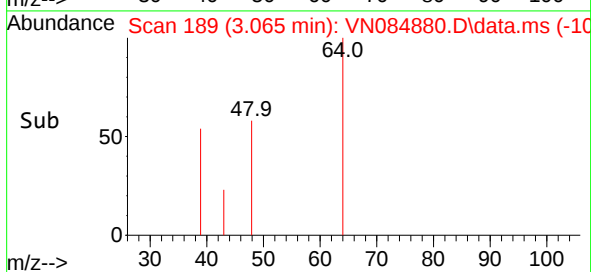
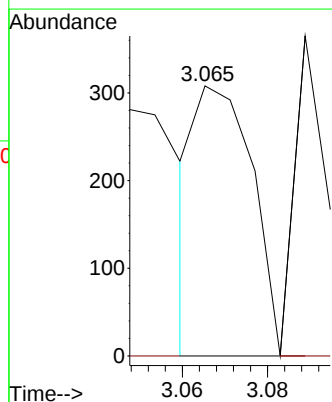
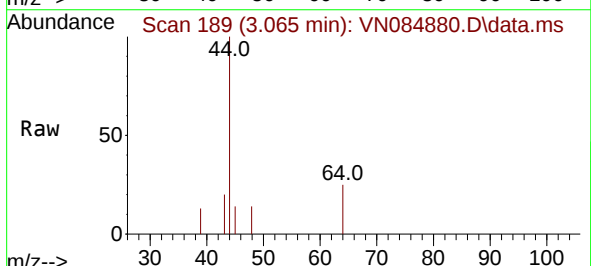
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

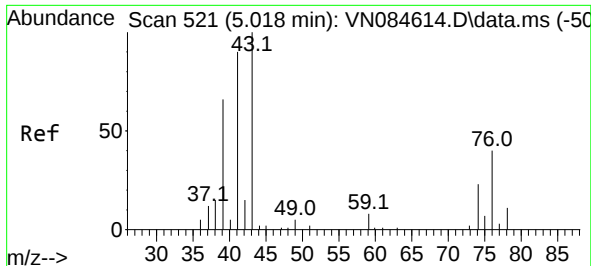
Tgt Ion: 94 Resp: 209
Ion Ratio Lower Upper
94 100
96 74.6 72.7 109.1



#6
Chloroethane
Concen: 0.244 ug/l
RT: 3.065 min Scan# 189
Delta R.T. 0.006 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

Tgt Ion: 64 Resp: 286
Ion Ratio Lower Upper
64 100
66 0.0 22.1 33.1#

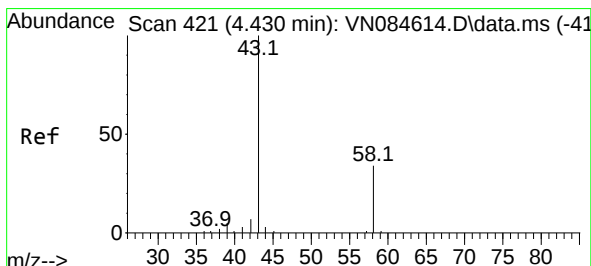
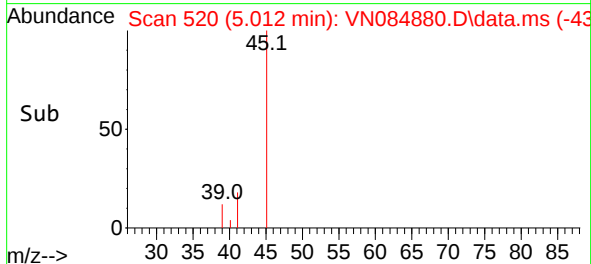
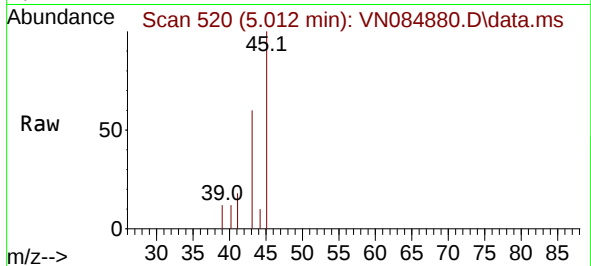




#12
Methyl Acetate
Concen: 0.895 ug/l
RT: 5.012 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

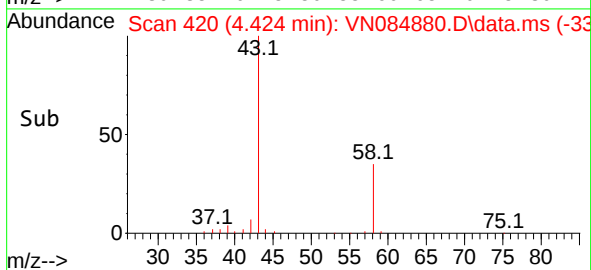
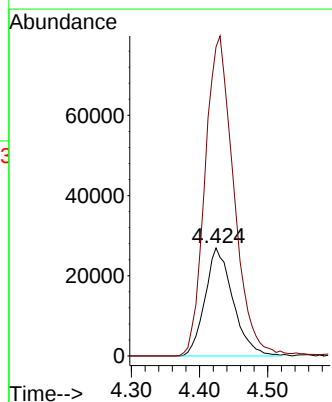
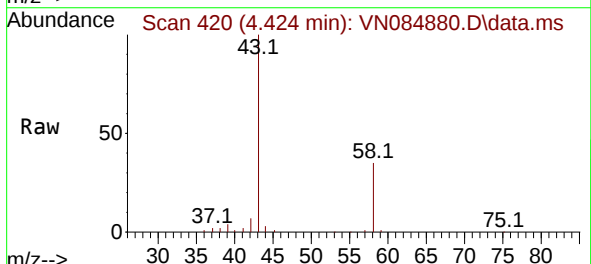
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

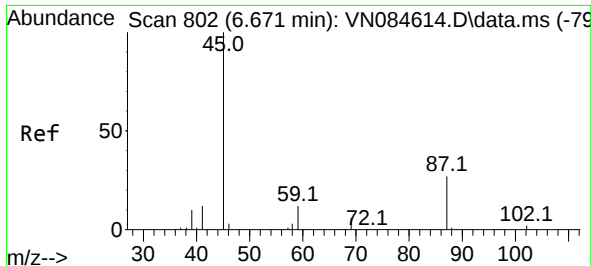
Tgt Ion: 43 Resp: 2229
Ion Ratio Lower Upper
43 100
74 0.0 19.0 28.4#



#15
Acetone
Concen: 366.457 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

Tgt Ion: 58 Resp: 76741
Ion Ratio Lower Upper
58 100
43 285.7 233.0 349.6

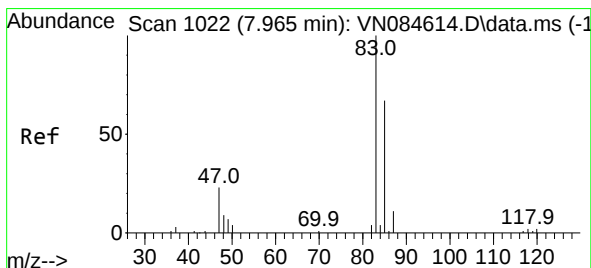
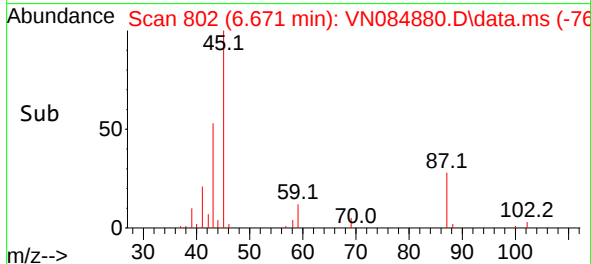
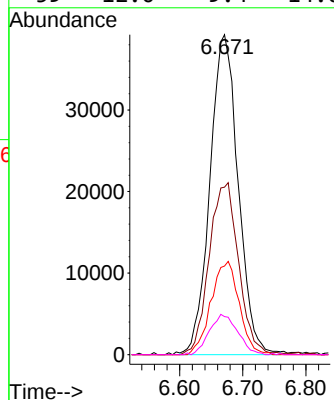
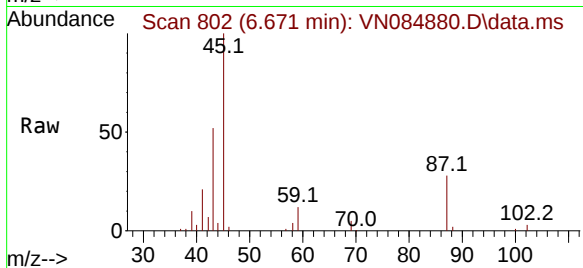




#20
Diisopropyl ether
Concen: 22.375 ug/l
RT: 6.671 min Scan# 802
Delta R.T. 0.000 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

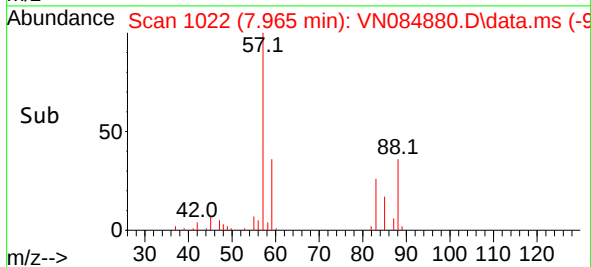
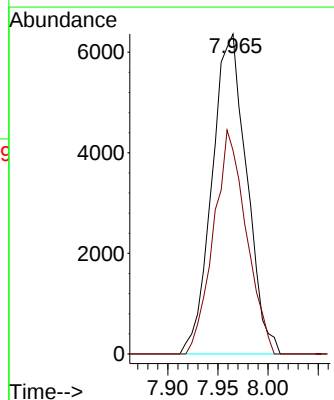
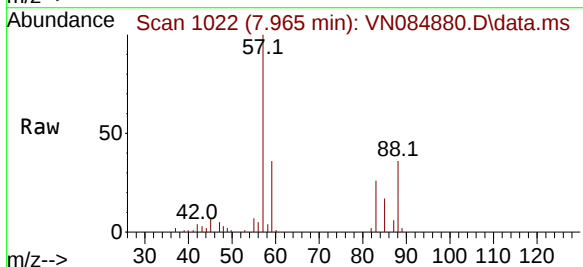
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

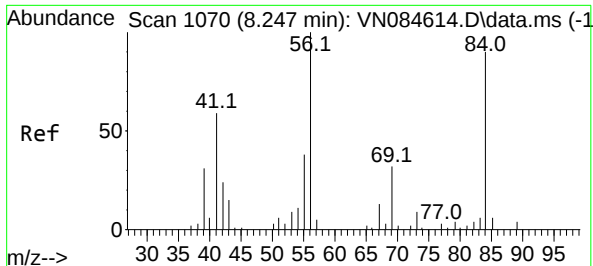
Tgt Ion: 45	Resp: 121988
Ion Ratio	Lower Upper
45 100	
43 52.7	42.6 64.0
87 27.8	23.0 34.4
59 12.0	9.4 14.0



#25
Chloroform
Concen: 4.558 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

Tgt Ion: 83	Resp: 15310
Ion Ratio	Lower Upper
83 100	
85 63.7	53.4 80.2

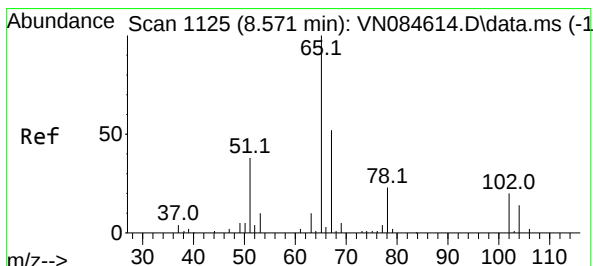
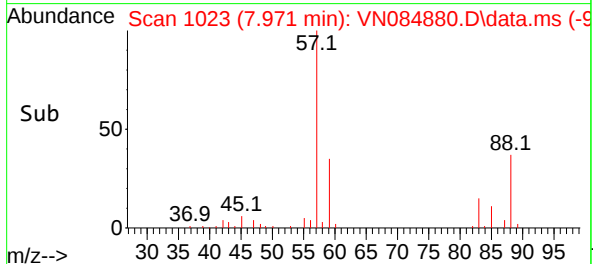
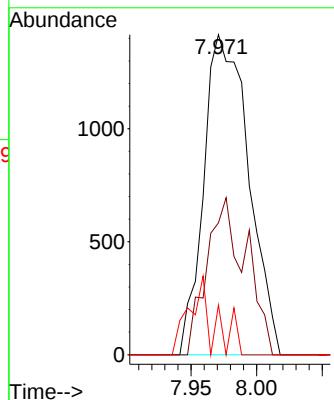
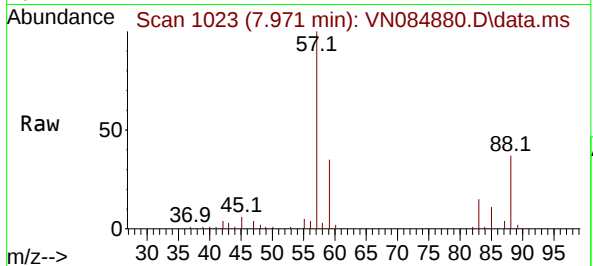




#26
Cyclohexane
Concen: 1.347 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. -0.276 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

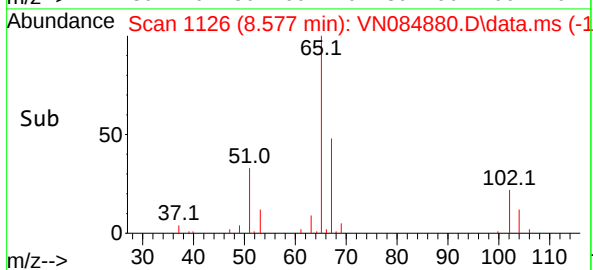
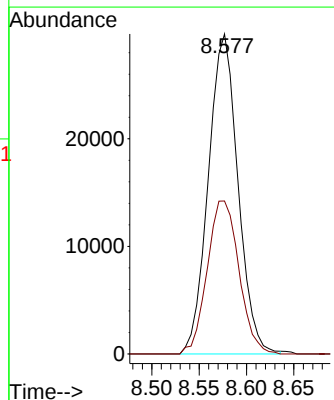
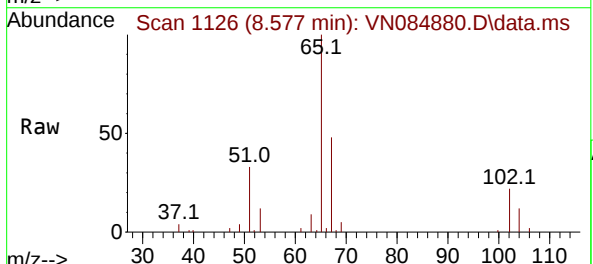
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

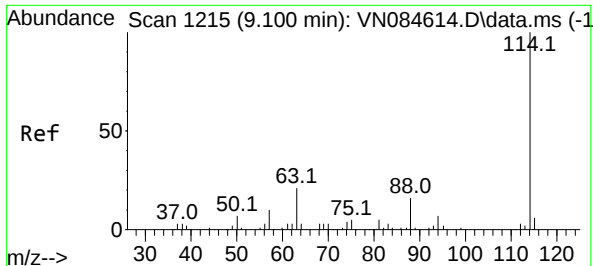
Tgt Ion: 56 Resp: 3374
Ion Ratio Lower Upper
56 100
89 32.7 3.0 4.4#
84 3.6 70.6 106.0#



#27
1,2-Dichloroethane-d4
Concen: 29.385 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.006 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

Tgt Ion: 65 Resp: 64789
Ion Ratio Lower Upper
65 100
67 51.3 40.7 61.1

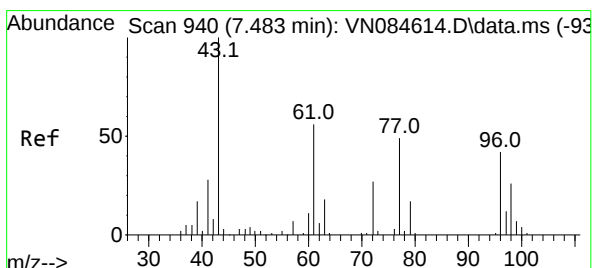
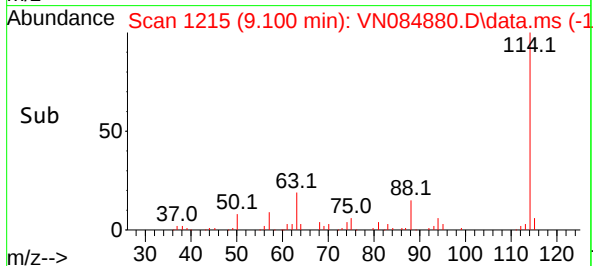
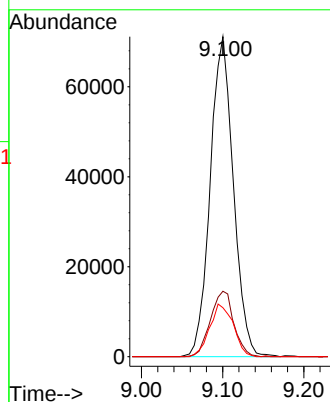
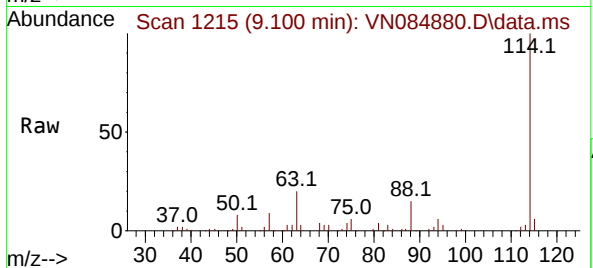




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 114
Delta R.T. 0.000 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

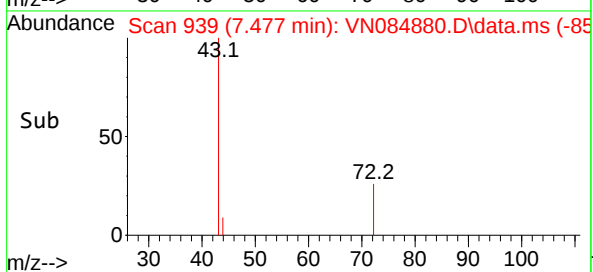
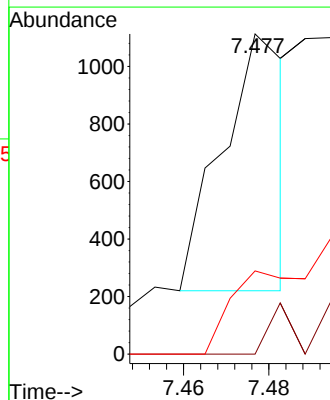
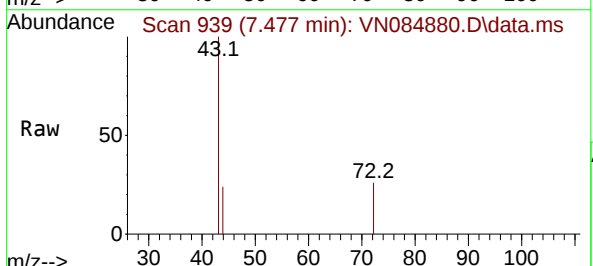
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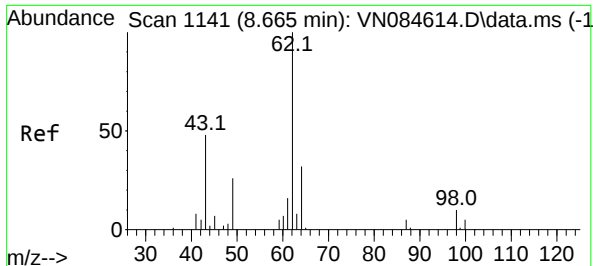
Tgt Ion:114 Resp: 140972
Ion Ratio Lower Upper
114 100
63 20.6 16.8 25.2
88 16.7 12.9 19.3



#30
2-Butanone
Concen: 0.947 ug/l
RT: 7.477 min Scan# 939
Delta R.T. -0.006 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

Tgt Ion: 43 Resp: 928
Ion Ratio Lower Upper
43 100
57 6.8 6.2 9.4
72 38.4 21.5 32.3#





#36

1,2-Dichloroethane

Concen: 2.283 ug/l

RT: 9.094 min Scan# 11

Delta R.T. 0.429 min

Lab File: VN084880.D

Acq: 15 Nov 2024 19:36

Instrument :

MSVOA_N

ClientSampleId :

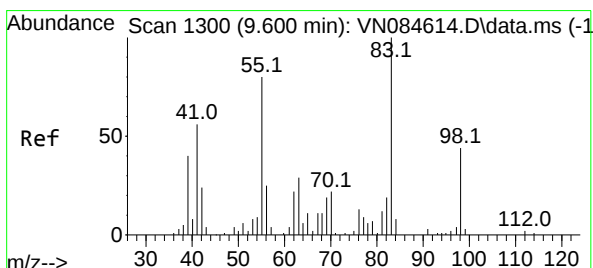
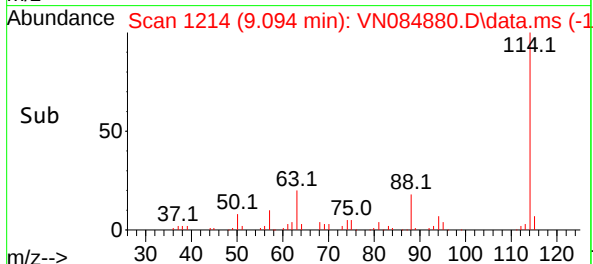
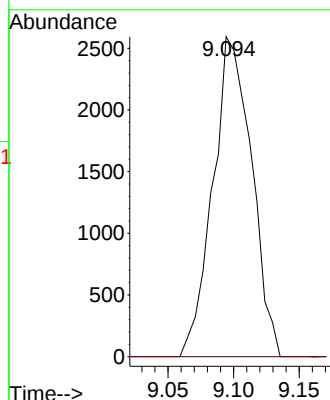
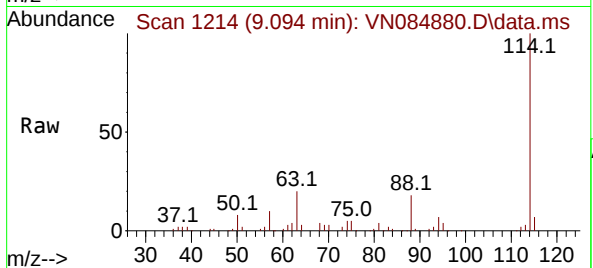
EFF-WW

Tgt Ion: 62 Resp: 5328

Ion Ratio Lower Upper

62 100

98 0.0 7.8 11.6#



#38

Methylcyclohexane

Concen: 0.939 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. 0.059 min

Lab File: VN084880.D

Acq: 15 Nov 2024 19:36

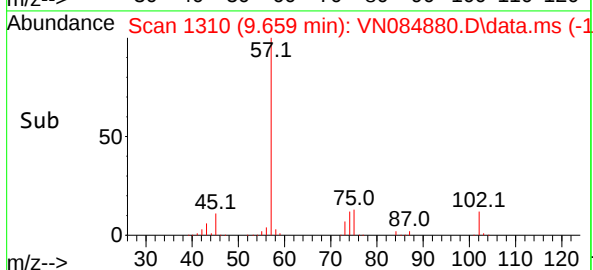
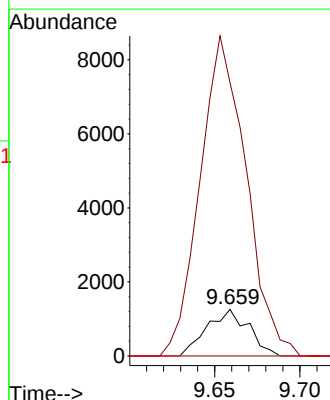
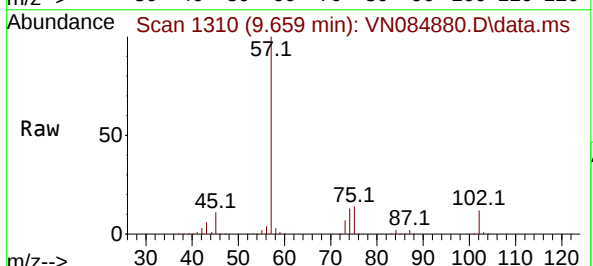
Tgt Ion: 83 Resp: 2146

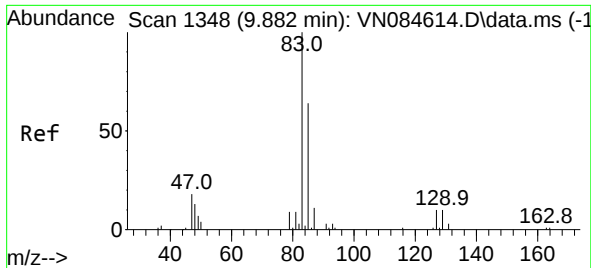
Ion Ratio Lower Upper

83 100

55 758.5 39.6 118.8#

98 0.0 23.2 69.5#

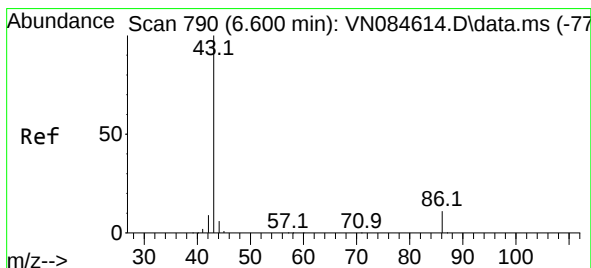
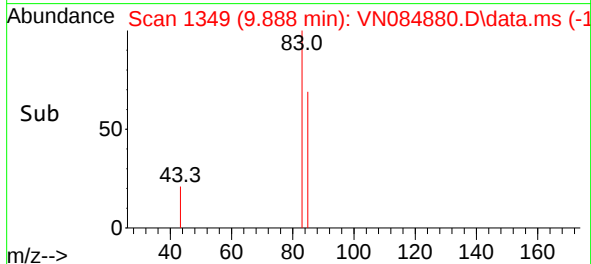
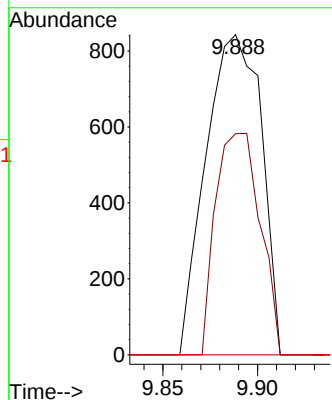
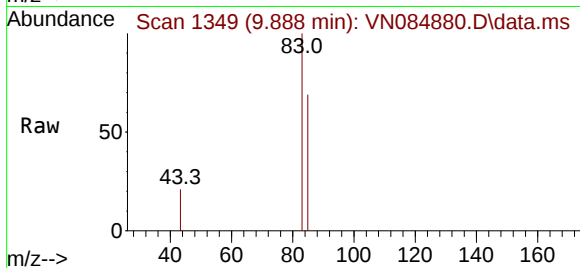




#41
Bromodichloromethane
Concen: 0.678 ug/l
RT: 9.888 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

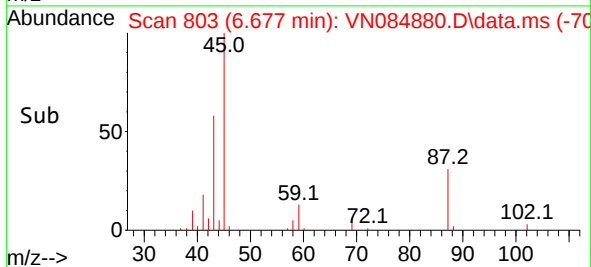
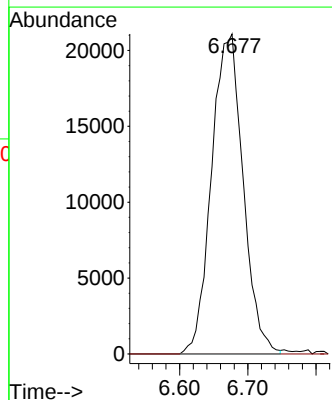
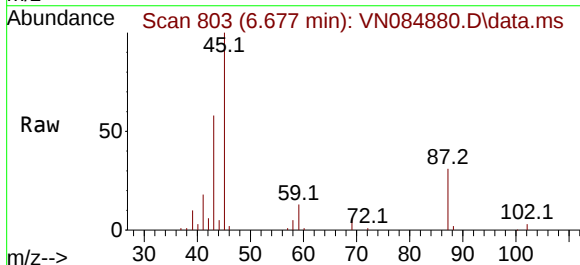
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

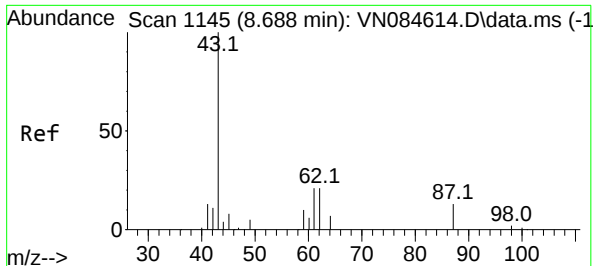
Tgt Ion: 83 Resp: 1717
Ion Ratio Lower Upper
83 100
85 69.0 51.0 76.6
127 0.0 7.8 11.6#



#42
Vinyl Acetate
Concen: 18.551 ug/l
RT: 6.677 min Scan# 803
Delta R.T. 0.076 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

Tgt Ion: 43 Resp: 67917
Ion Ratio Lower Upper
43 100
86 0.0 8.6 13.0#

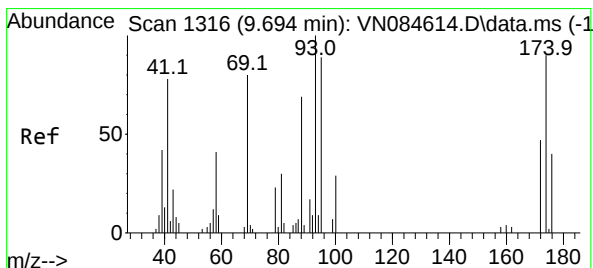
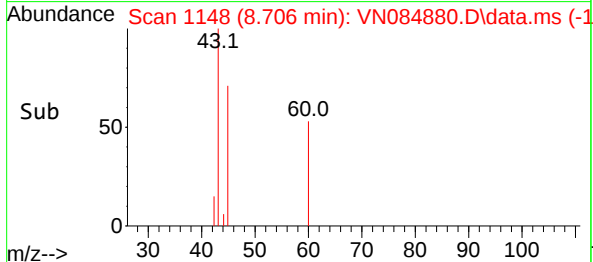
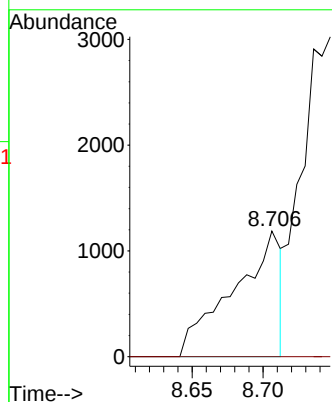
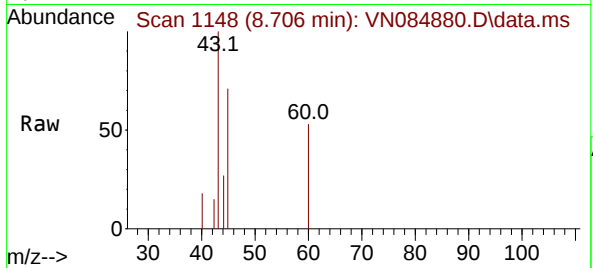




#44
Isopropyl Acetate
Concen: 0.667 ug/l
RT: 8.706 min Scan# 1148
Delta R.T. 0.018 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

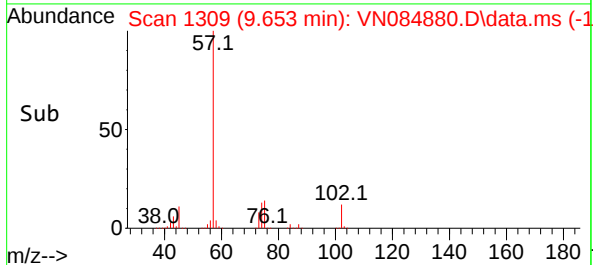
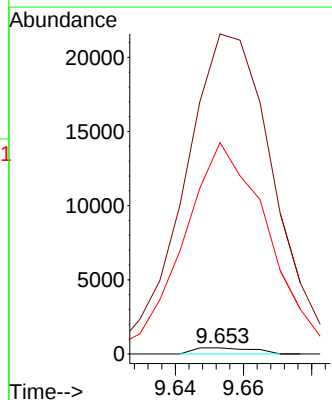
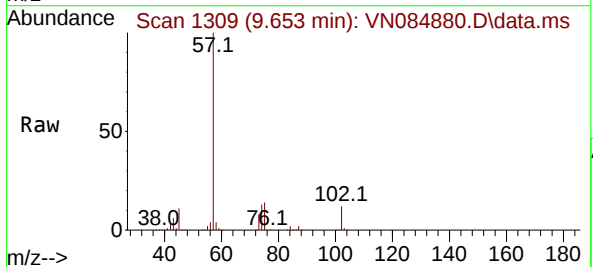
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

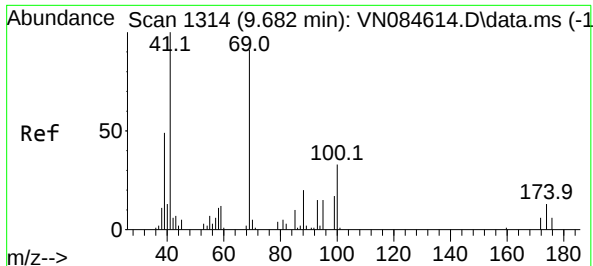
Tgt Ion: 43 Resp: 2778
Ion Ratio Lower Upper
43 100
61 26.5 19.8 29.8



#45
1,4-Dioxane
Concen: 18.366 ug/l
RT: 9.653 min Scan# 1309
Delta R.T. -0.041 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

Tgt Ion: 88 Resp: 511
Ion Ratio Lower Upper
88 100
43 7807.0 20.8 31.2#
58 4904.9 53.4 80.2#

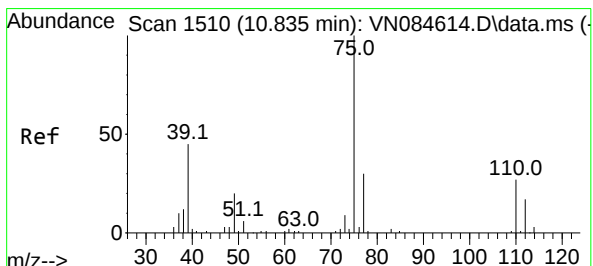
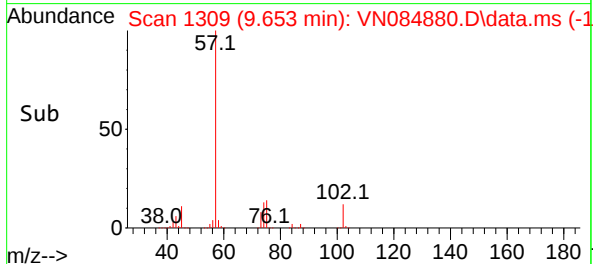
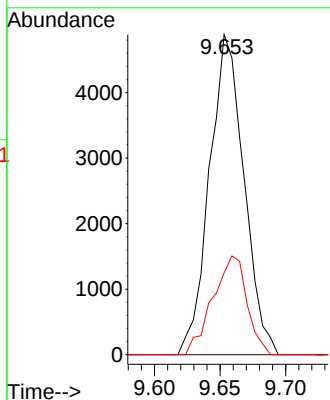
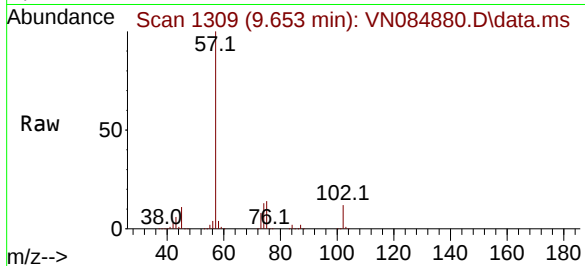




#46
Methyl methacrylate
Concen: 5.335 ug/l
RT: 9.653 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

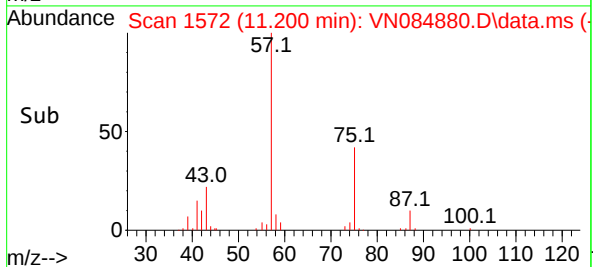
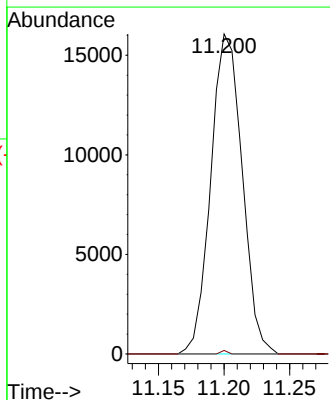
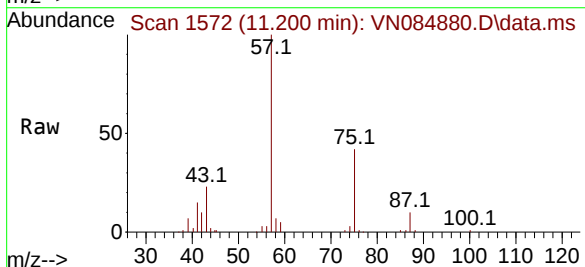
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

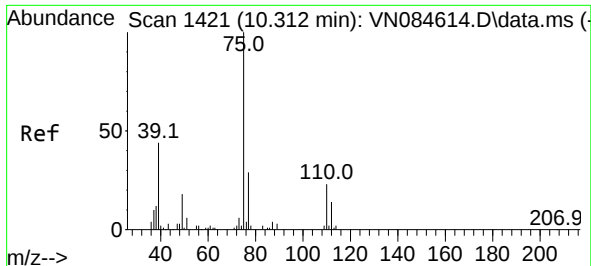
Tgt Ion: 41 Resp: 8934
Ion Ratio Lower Upper
41 100
69 0.0 43.4 130.2#
39 25.6 24.7 74.1



#48
t-1,3-Dichloropropene
Concen: 10.704 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.365 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

Tgt Ion: 75 Resp: 26779
Ion Ratio Lower Upper
75 100
77 1.1 24.4 36.6#

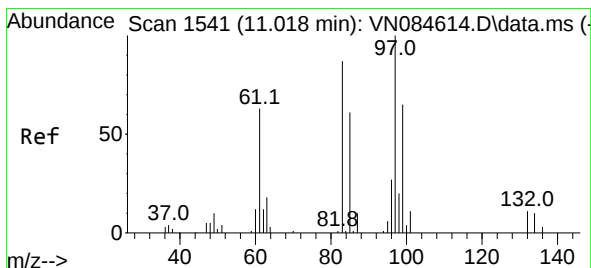
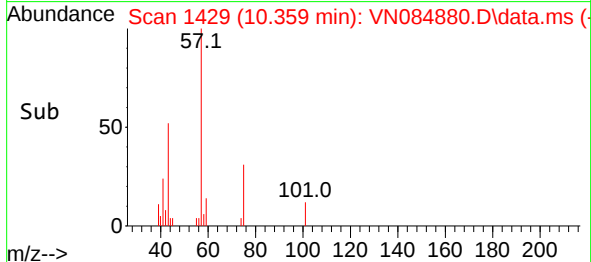
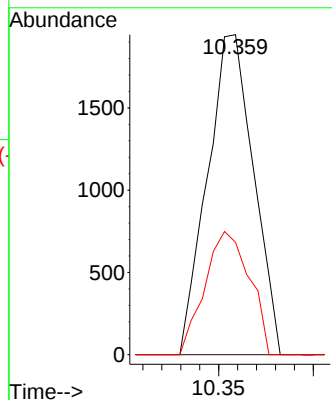
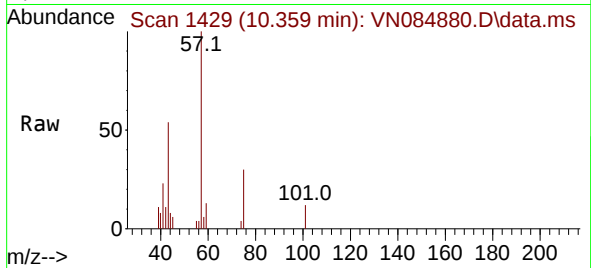




#49
 cis-1,3-Dichloropropene
 Concen: 1.229 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN084880.D
 Acq: 15 Nov 2024 19:36

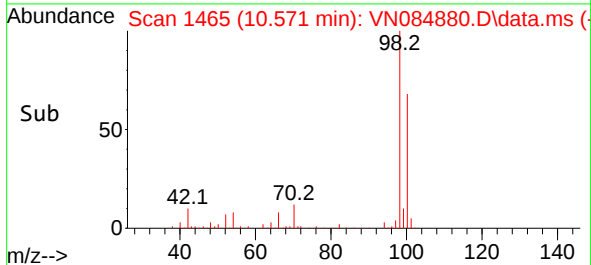
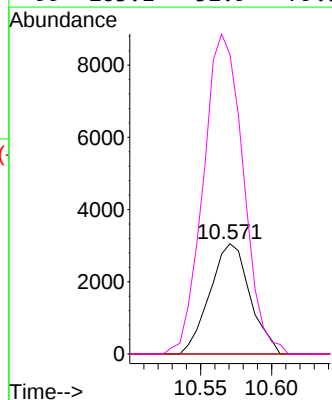
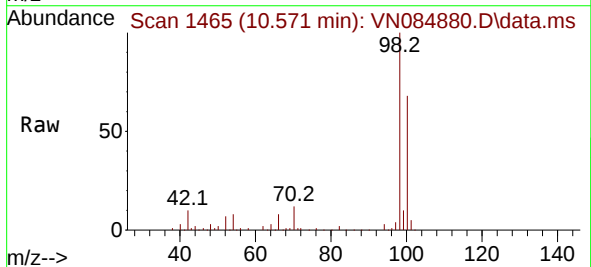
Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

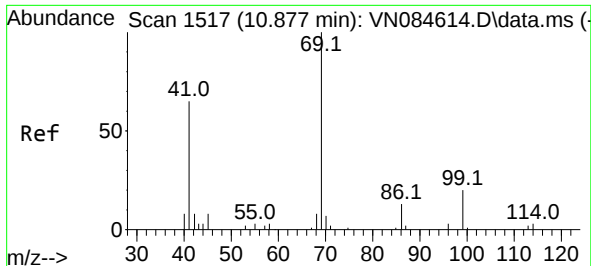
Tgt Ion: 75 Resp: 3295
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.4 35.2#
 39 35.1 35.4 53.2#



#50
 1,1,2-Trichloroethane
 Concen: 3.781 ug/l
 RT: 10.571 min Scan# 1465
 Delta R.T. -0.447 min
 Lab File: VN084880.D
 Acq: 15 Nov 2024 19:36

Tgt Ion: 97 Resp: 5994
 Ion Ratio Lower Upper
 97 100
 83 0.0 69.8 104.8#
 85 0.0 48.6 73.0#
 99 263.1 52.9 79.3#

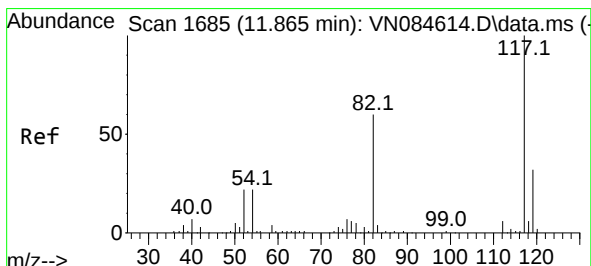
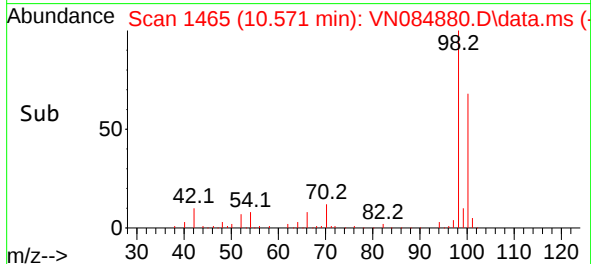
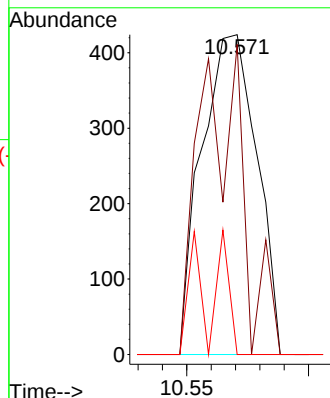
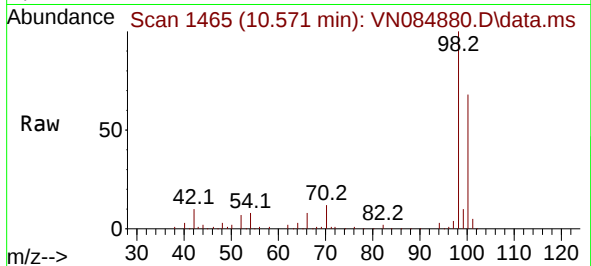




#51
Ethyl methacrylate
Concen: 0.273 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.306 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

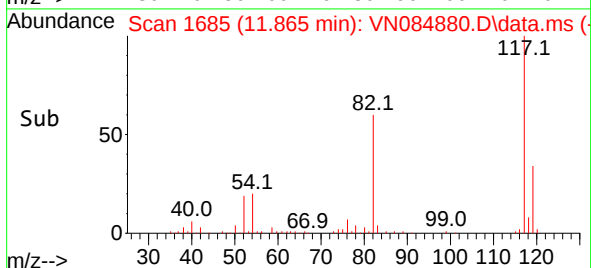
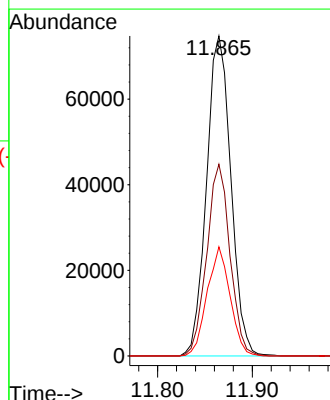
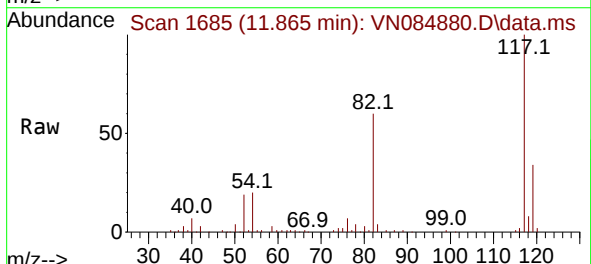
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

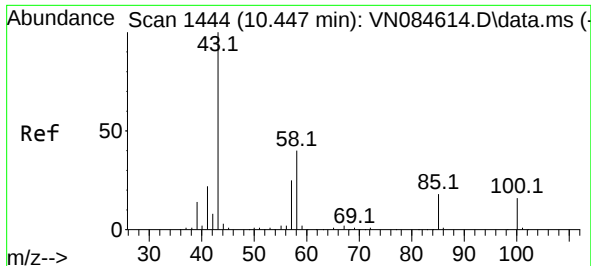
Tgt Ion: 69 Resp: 668
Ion Ratio Lower Upper
69 100
41 96.9 32.8 98.3
39 0.0 15.4 46.1#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

Tgt Ion: 117 Resp: 134154
Ion Ratio Lower Upper
117 100
82 57.1 45.5 68.3
119 32.2 25.3 37.9

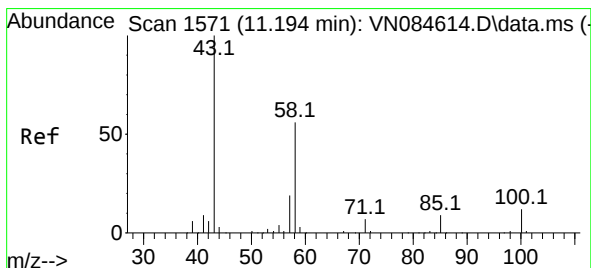
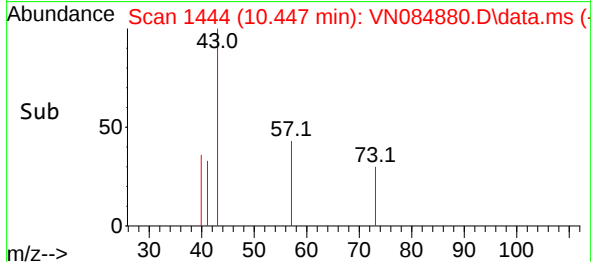
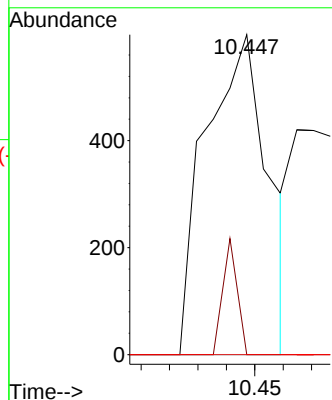
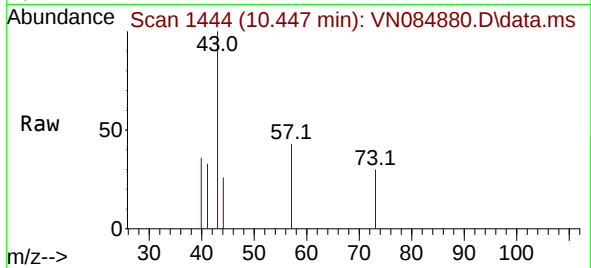




#58
4-Methyl-2-Pentanone
Concen: 0.431 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

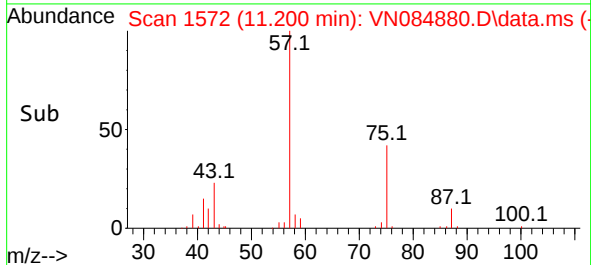
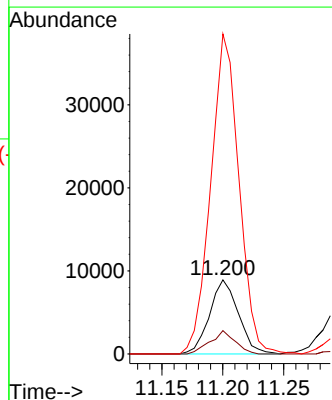
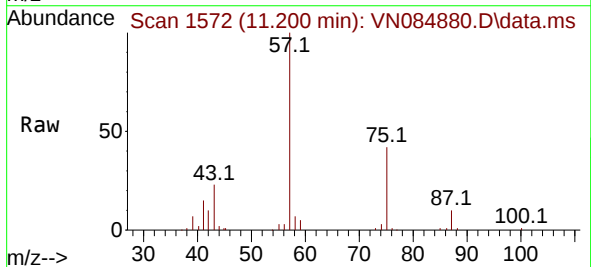
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

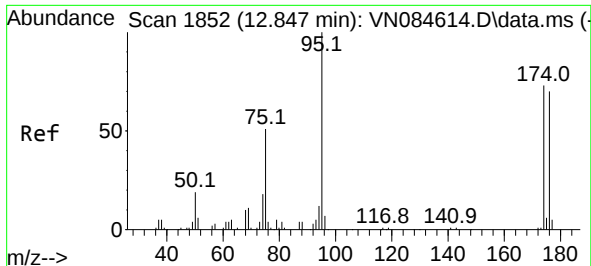
Tgt Ion: 43 Resp: 912
Ion Ratio Lower Upper
43 100
58 0.0 31.2 46.8#
85 0.0 14.9 22.3#



#59
2-Hexanone
Concen: 9.474 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

Tgt Ion: 43 Resp: 14682
Ion Ratio Lower Upper
43 100
58 27.1 43.8 65.6#
57 423.6 15.0 22.6#

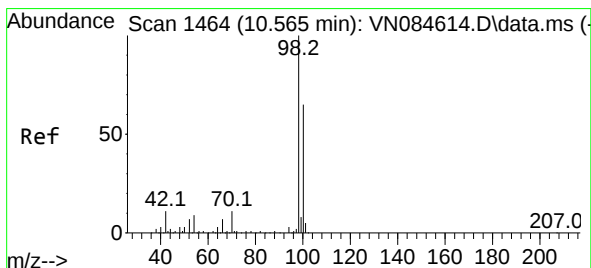
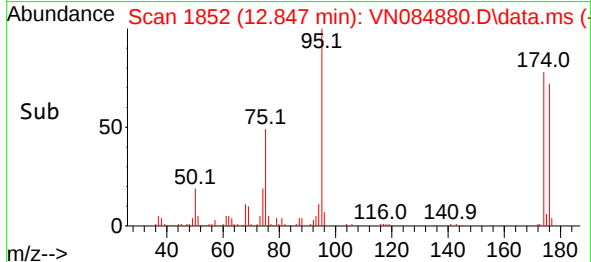
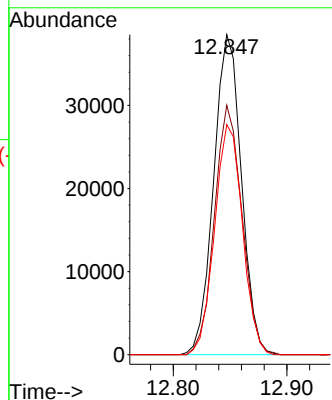
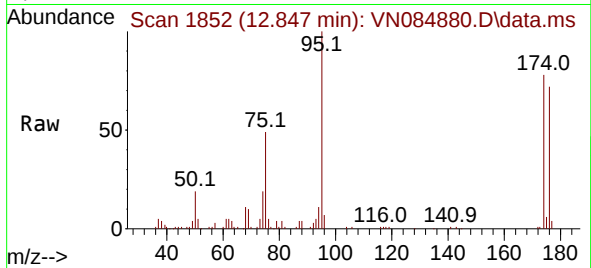




#60
4-Bromofluorobenzene
Concen: 28.318 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

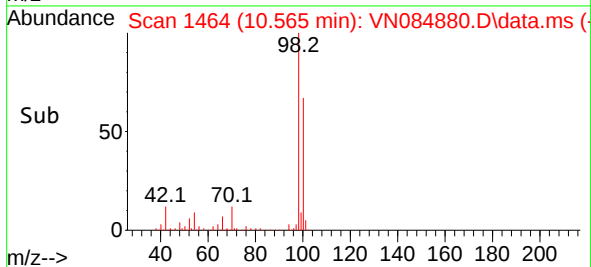
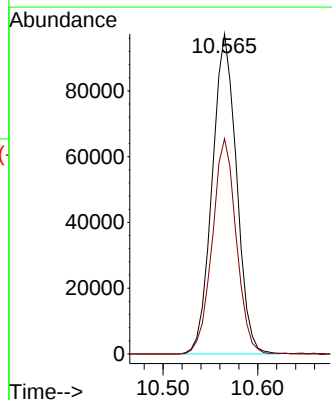
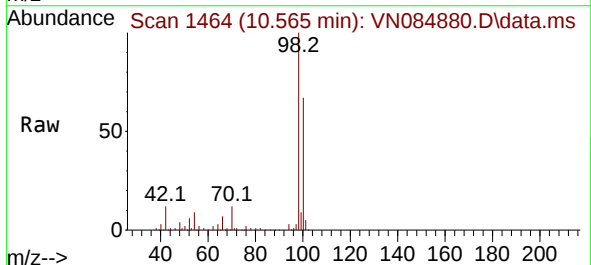
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

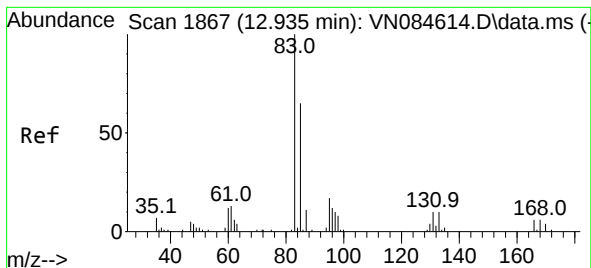
Tgt Ion: 95 Resp: 65412
Ion Ratio Lower Upper
95 100
174 77.4 59.6 89.4
176 72.3 58.6 88.0



#63
Toluene-d8
Concen: 27.359 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

Tgt Ion: 98 Resp: 173751
Ion Ratio Lower Upper
98 100
100 66.4 52.2 78.2

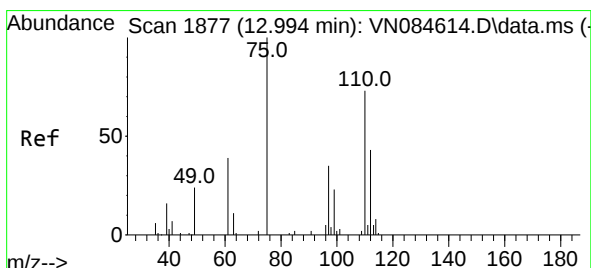
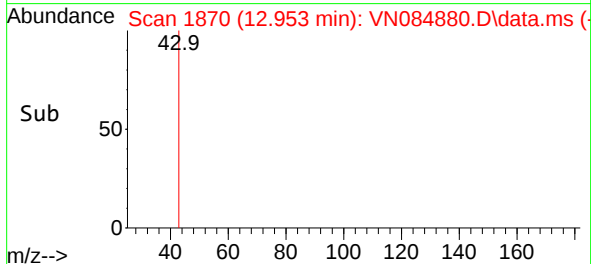
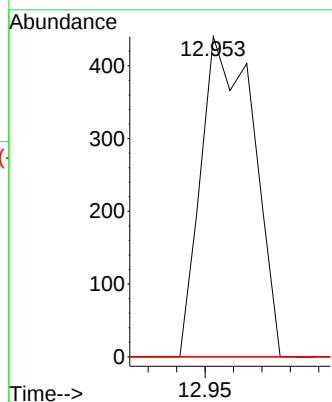
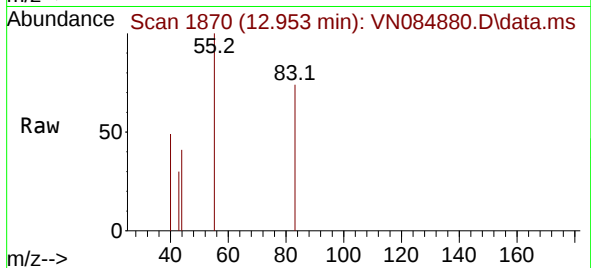




#71
1,1,2,2-Tetrachloroethane
Concen: 0.236 ug/l
RT: 12.953 min Scan# 1867
Delta R.T. 0.018 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion: 83 Resp: 564
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.3#
85 0.0 33.3 99.9#



#72
1,2,3-Trichloropropane
Concen: 16.631 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN084880.D
Acq: 15 Nov 2024 19:36

Tgt Ion: 75 Resp: 33910
Ion Ratio Lower Upper
75 100
77 1.0 0.0 358.4

