

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081123\
 Data File : VN078870.D
 Acq On : 11 Aug 2023 18:04
 Operator : JC\MD
 Sample : 03992-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Aug 12 01:43:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 05:05:47 2023
 Response via : Initial Calibration

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

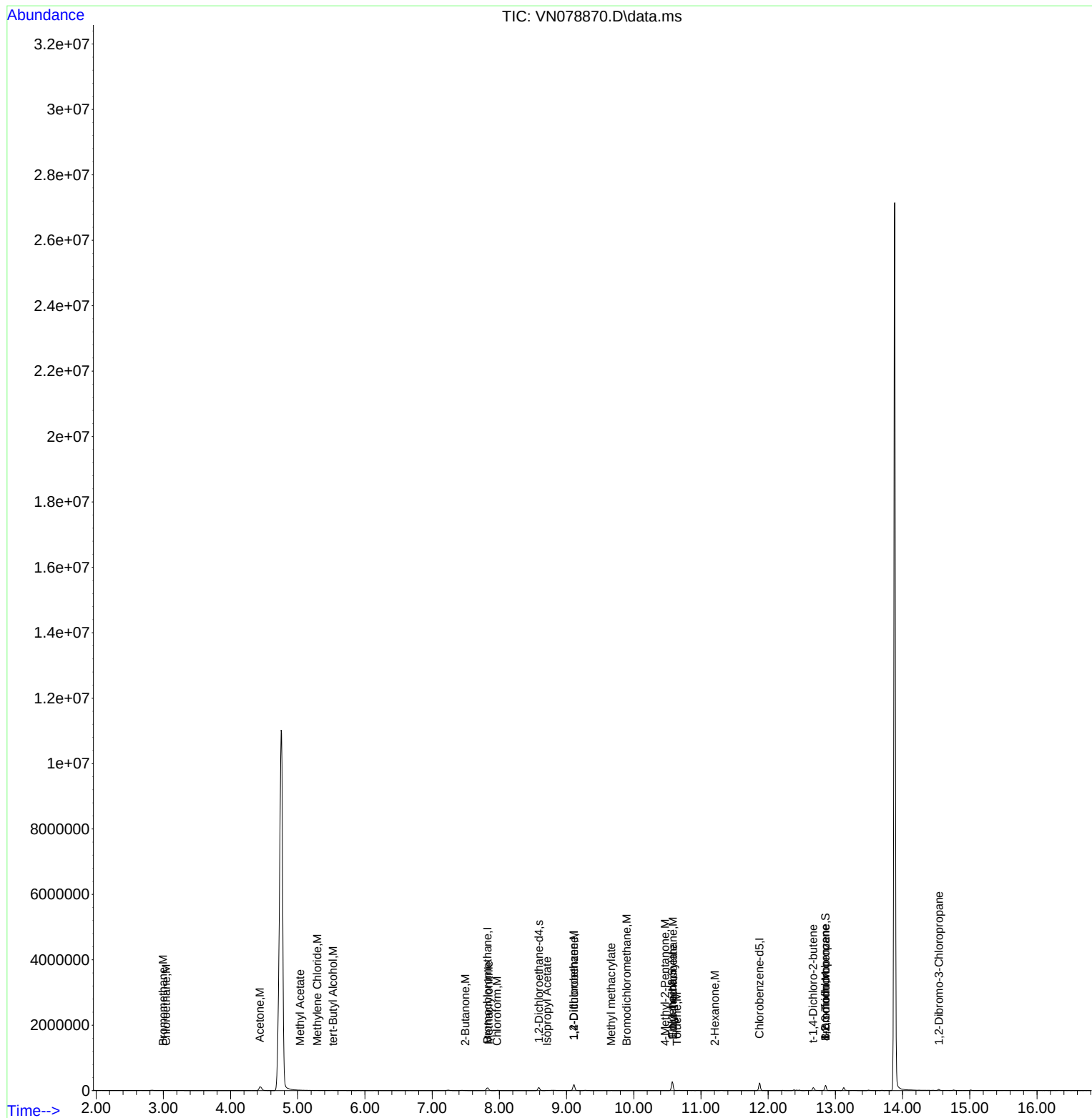
Internal Standards						
1) Bromochloromethane	7.824	128	26997	30.000	ug/l	# 0.00
28) 1,4-Difluorobenzene	9.112	114	144093	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.871	117	125445	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	68112	31.338	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 104.467%	
60) 4-Bromofluorobenzene	12.853	95	49254	27.972	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 93.233%	
63) Toluene-d8	10.571	98	178518	29.041	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 96.800%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.995	94	333	0.217	ug/l	# 3
6) Chloroethane	3.042	64	904	0.604	ug/l	94
12) Methyl Acetate	5.036	43	2669	0.817	ug/l	# 88
15) Acetone	4.436	58	64844	292.272	ug/l	84
18) Methylene Chloride	5.289	84	643	0.343	ug/l	# 14
23) tert-Butyl Alcohol	5.524	59	1030	3.219	ug/l	# 100
25) Chloroform	7.965	83	3548	1.062	ug/l	87
30) 2-Butanone	7.494	43	633	0.552	ug/l	# 93
35) Methacrylonitrile	7.841	41	366	0.272	ug/l	# 34
36) 1,2-Dichloroethane	9.106	62	6314	2.536	ug/l	# 75
41) Bromodichloromethane	9.894	83	671	0.265	ug/l	# 69
44) Isopropyl Acetate	8.712	43	3648	0.853	ug/l	# 46
46) Methyl methacrylate	9.665	41	476	0.263	ug/l	# 10
50) 1,1,2-Trichloroethane	10.582	97	6846	4.015	ug/l	# 1
51) Ethyl methacrylate	10.582	69	498	0.208	ug/l	87
56) Bromoform	12.853	173	704	0.632	ug/l	# 34
58) 4-Methyl-2-Pentanone	10.465	43	616	0.255	ug/l	# 81
59) 2-Hexanone	11.206	43	3279	1.957	ug/l	# 81
62) Toluene	10.641	91	1991	0.270	ug/l	# 84
72) 1,2,3-Trichloropropane	12.853	75	28982	14.170	ug/l	1
77) t-1,4-Dichloro-2-butene	12.670	75	4740	7.383	ug/l	# 27
88) 1,2-Dibromo-3-Chloropr...	14.541	75	1162	3.491	ug/l	# 2

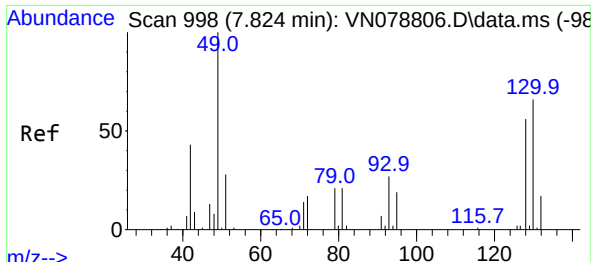
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 09 05:05:47 2023
Response via : Initial Calibration

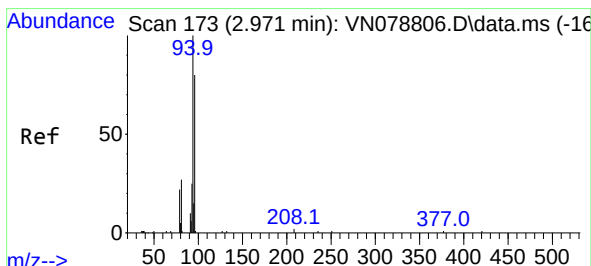
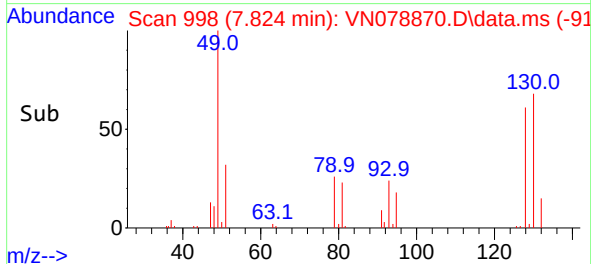
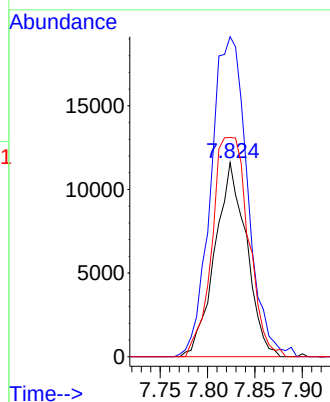
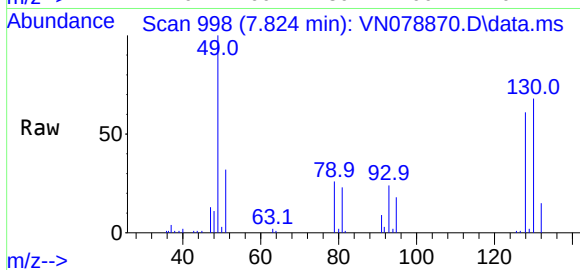




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

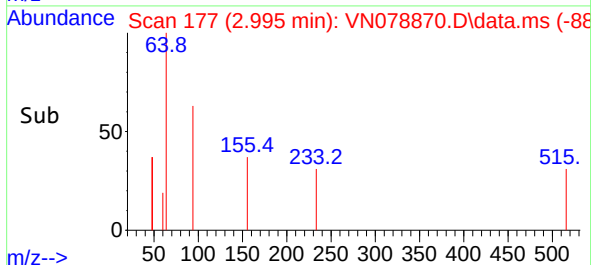
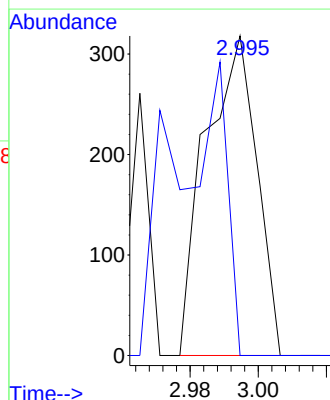
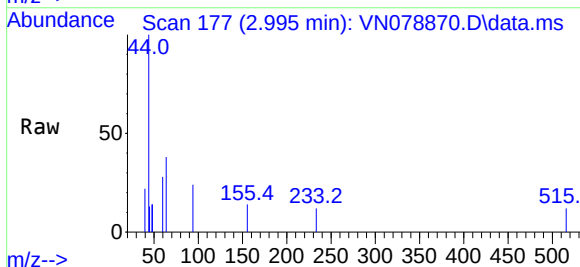
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

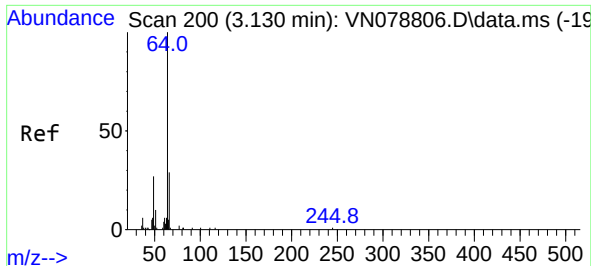
Tgt Ion:128 Resp: 26997
Ion Ratio Lower Upper
128 100
49 189.6 0.0 370.8
130 0.0 0.0 307.0



#5
Bromomethane
Concen: 0.217 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.023 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

Tgt Ion: 94 Resp: 333
Ion Ratio Lower Upper
94 100
96 0.0 73.9 110.9#

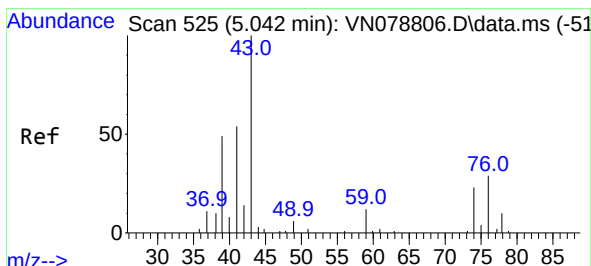
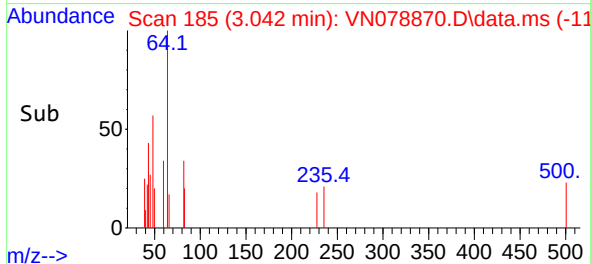
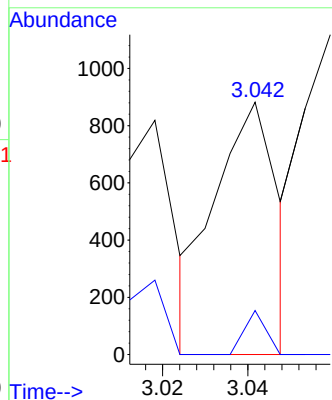
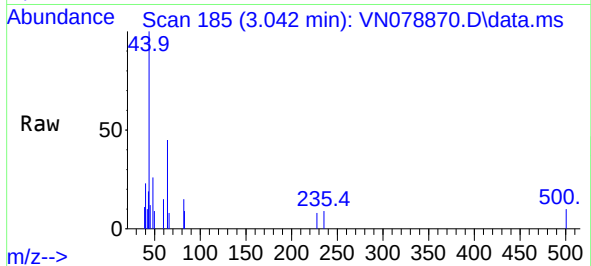




#6
Chloroethane
Concen: 0.604 ug/l
RT: 3.042 min Scan# 11
Delta R.T. -0.088 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

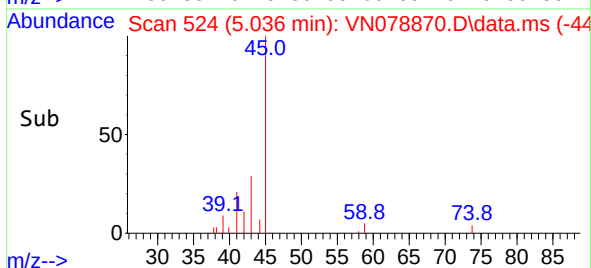
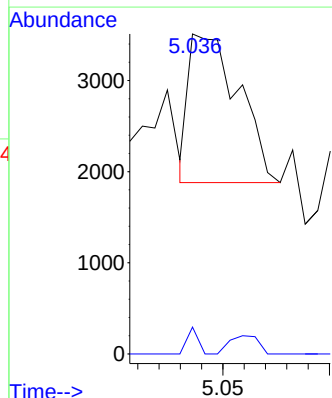
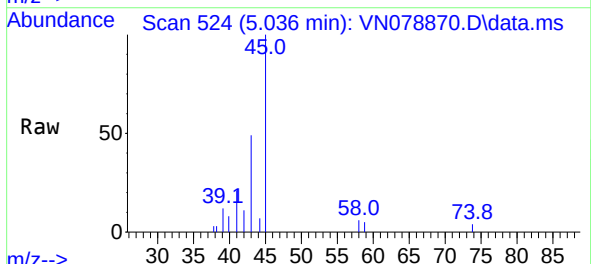
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

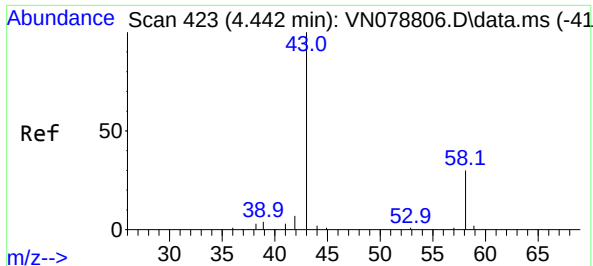
Tgt Ion: 64 Resp: 904
Ion Ratio Lower Upper
64 100
66 28.7 25.7 38.5



#12
Methyl Acetate
Concen: 0.817 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.006 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

Tgt Ion: 43 Resp: 2669
Ion Ratio Lower Upper
43 100
74 19.6 20.5 30.7#





#15

Acetone

Concen: 292.272 ug/l

RT: 4.436 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN078870.D

Acq: 11 Aug 2023 18:04

Instrument :

MSVOA_N

ClientSampleId :

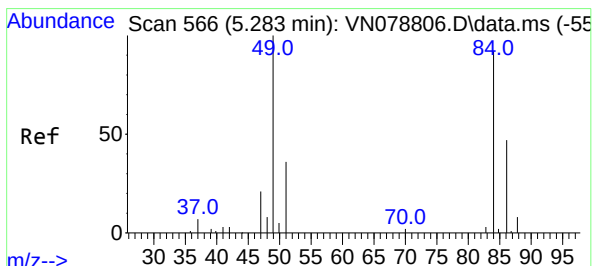
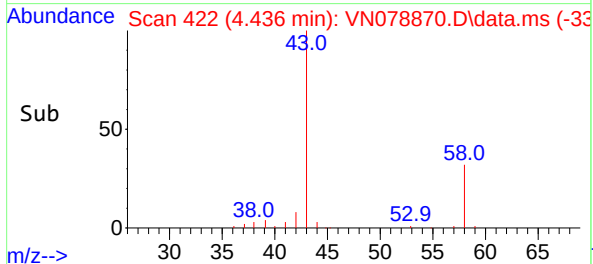
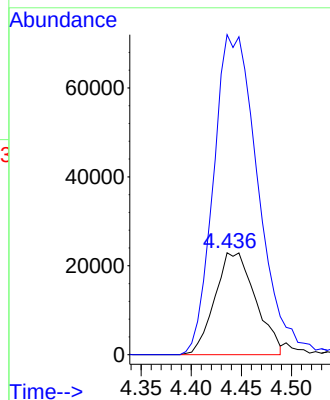
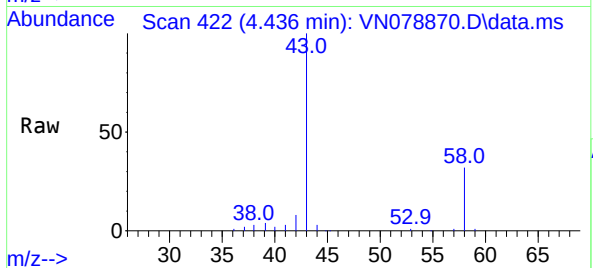
EFF-WW

Tgt Ion: 58 Resp: 64844

Ion Ratio Lower Upper

58 100

43 314.0 227.5 341.3



#18

Methylene Chloride

Concen: 0.343 ug/l

RT: 5.289 min Scan# 567

Delta R.T. 0.006 min

Lab File: VN078870.D

Acq: 11 Aug 2023 18:04

Tgt Ion: 84 Resp: 643

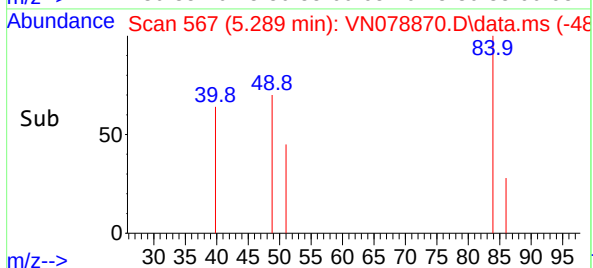
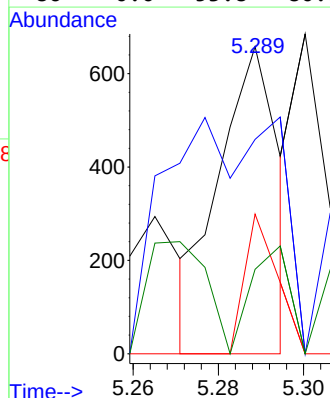
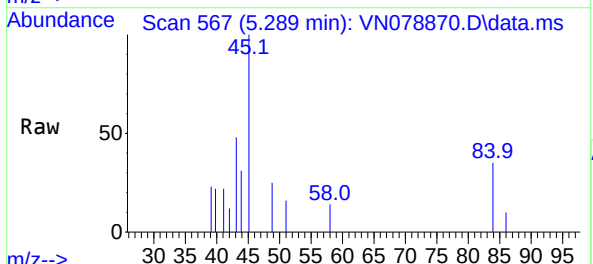
Ion Ratio Lower Upper

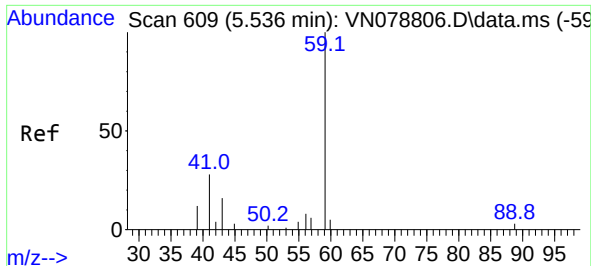
84 100

49 11.2 88.1 132.1#

51 65.9 24.0 36.0#

86 0.0 53.8 80.8#

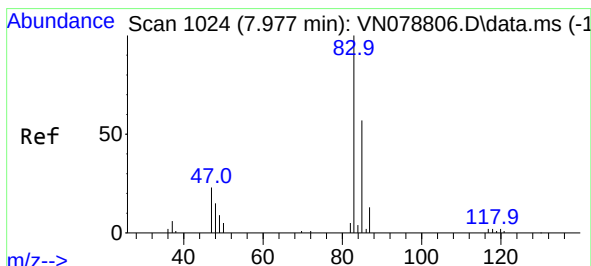
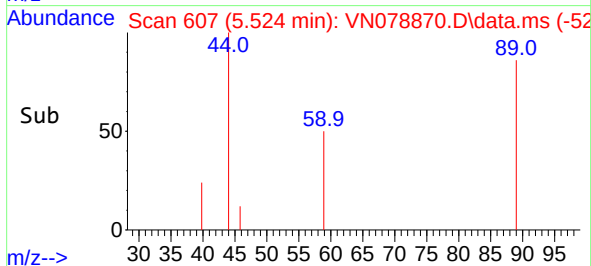
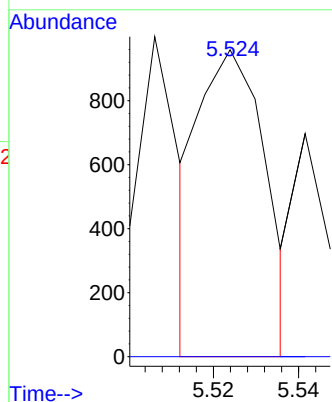
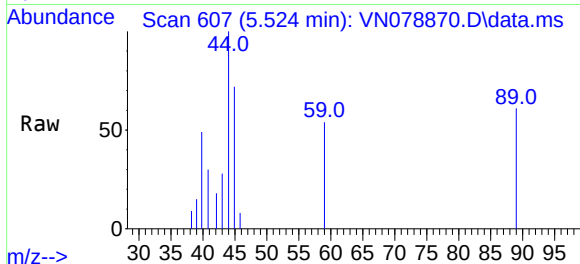




#23
tert-Butyl Alcohol
Concen: 3.219 ug/l
RT: 5.524 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

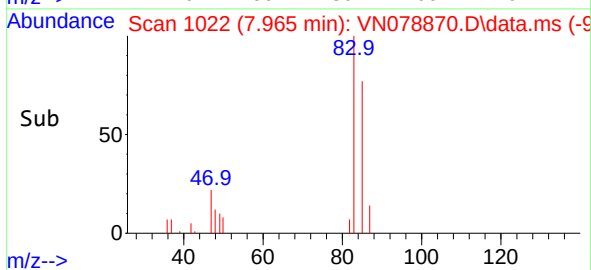
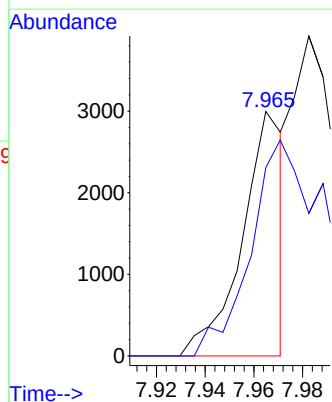
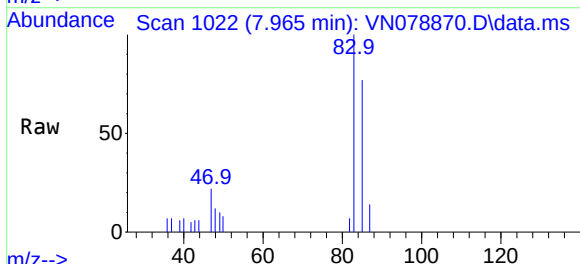
Instrument :
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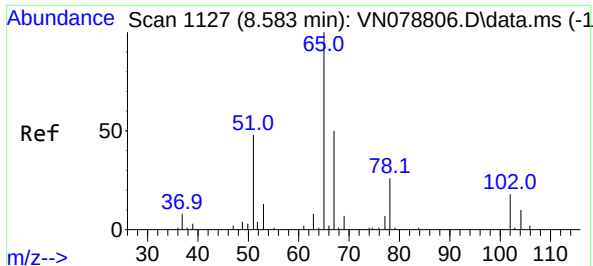
Tgt Ion: 59 Resp: 1030
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#25
Chloroform
Concen: 1.062 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. -0.012 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

Tgt Ion: 83 Resp: 3548
Ion Ratio Lower Upper
83 100
85 77.0 53.4 80.0

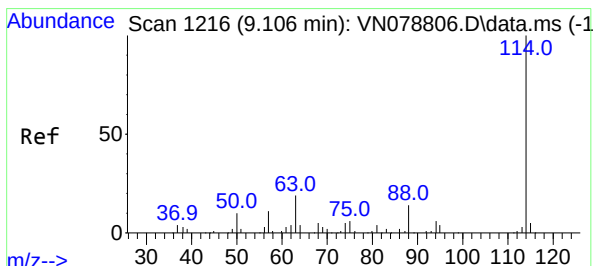
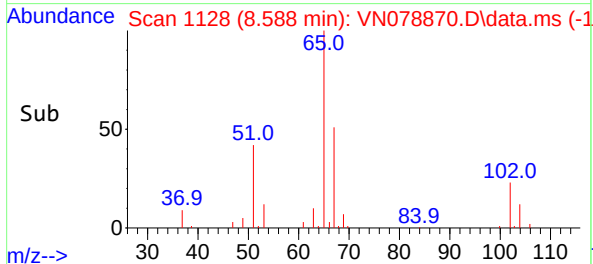
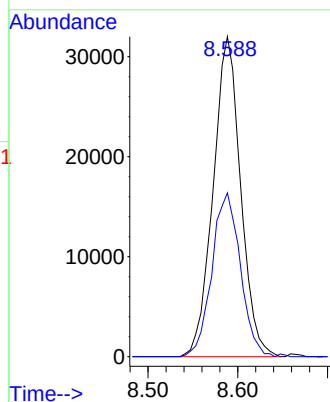
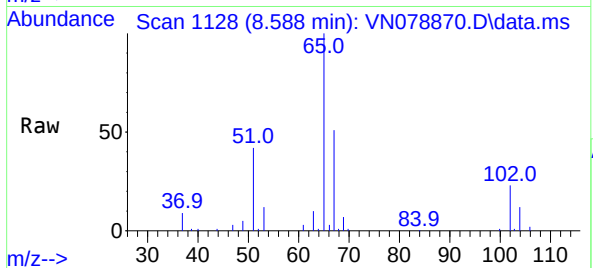




#27
1,2-Dichloroethane-d4
Concen: 31.338 ug/l
RT: 8.588 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

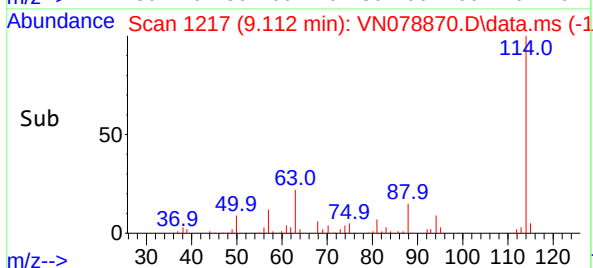
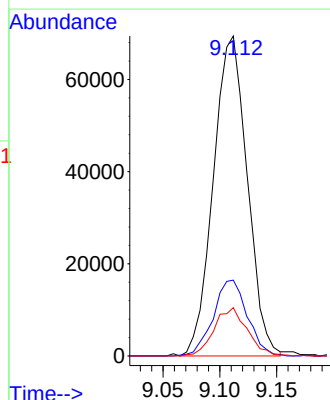
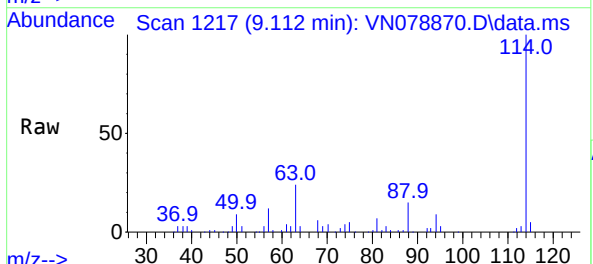
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

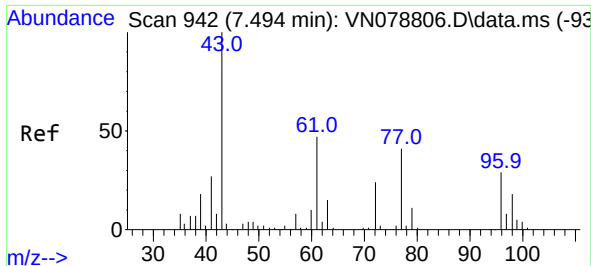
Tgt Ion: 65 Resp: 68112
Ion Ratio Lower Upper
65 100
67 52.8 42.9 64.3



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.006 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

Tgt Ion: 114 Resp: 144093
Ion Ratio Lower Upper
114 100
63 23.8 15.2 22.8#
88 14.6 12.5 18.7

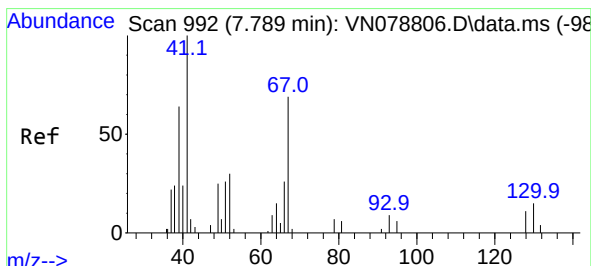
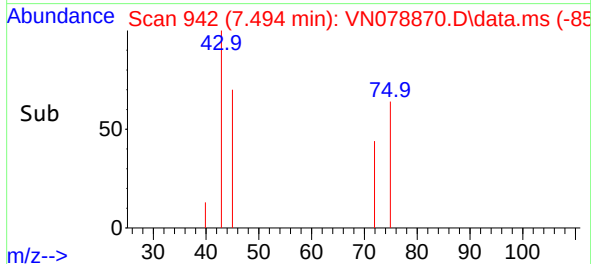
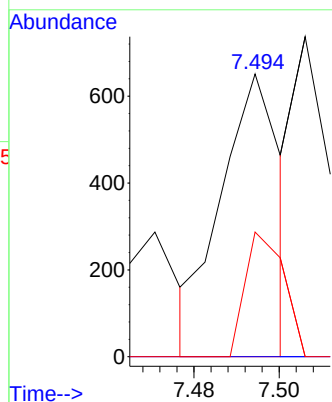
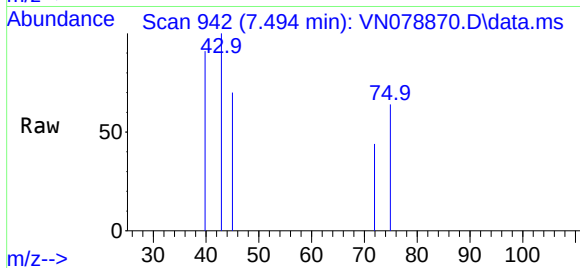




#30
2-Butanone
Concen: 0.552 ug/l
RT: 7.494 min Scan# 94
Delta R.T. -0.000 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

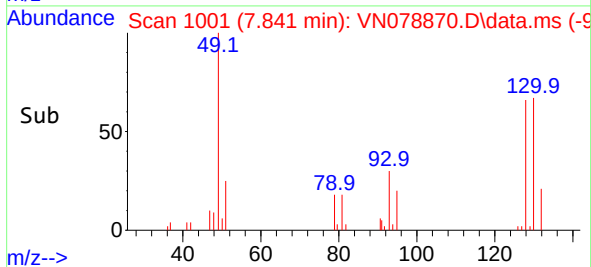
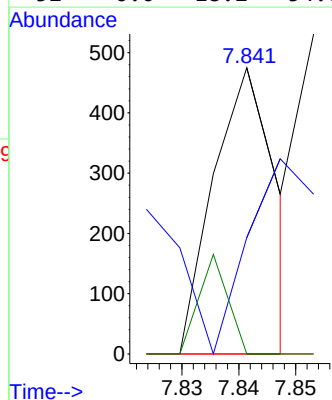
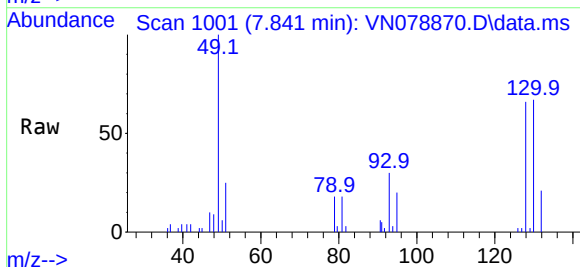
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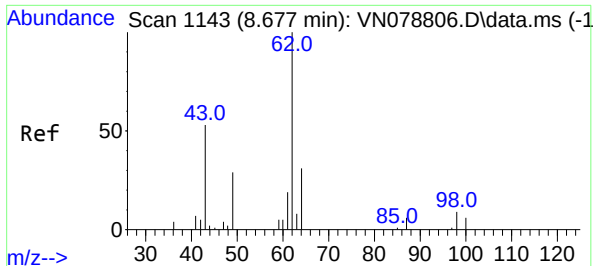
Tgt Ion: 43 Resp: 633
Ion Ratio Lower Upper
43 100
57 0.0 6.8 10.2#
72 28.8 23.8 35.6



#35
Methacrylonitrile
Concen: 0.272 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.053 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

Tgt Ion: 41 Resp: 366
Ion Ratio Lower Upper
41 100
39 89.5 33.9 101.6
67 0.0 45.9 137.6#
52 0.0 18.2 54.6#

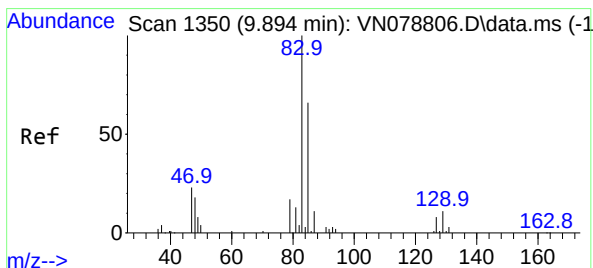
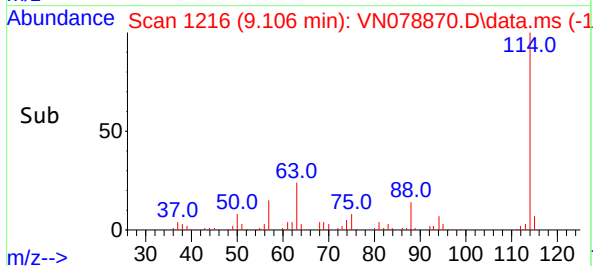
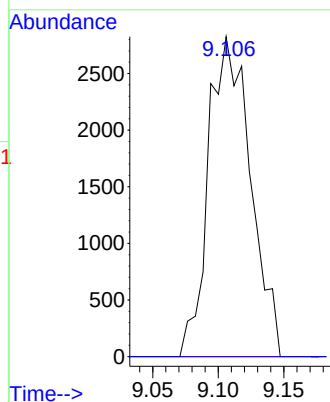
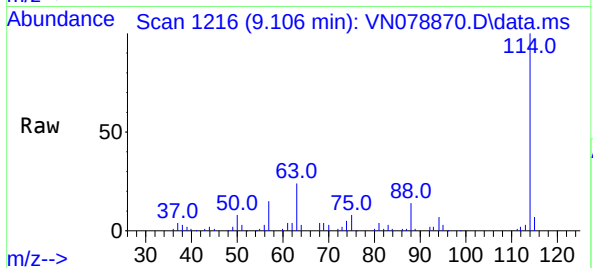




#36
1,2-Dichloroethane
Concen: 2.536 ug/l
RT: 9.106 min Scan# 1143
Delta R.T. 0.429 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

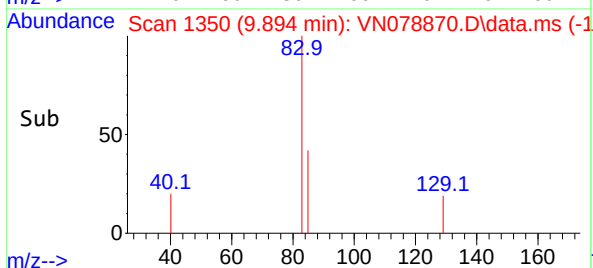
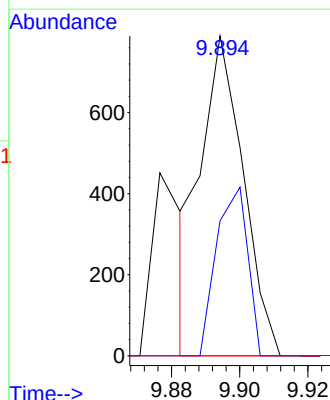
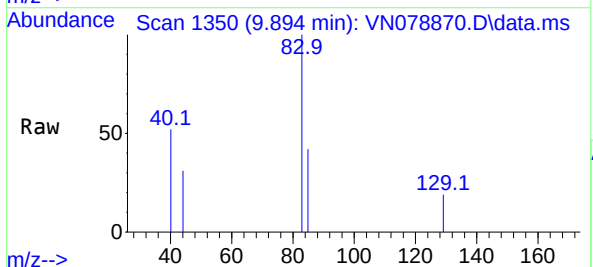
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

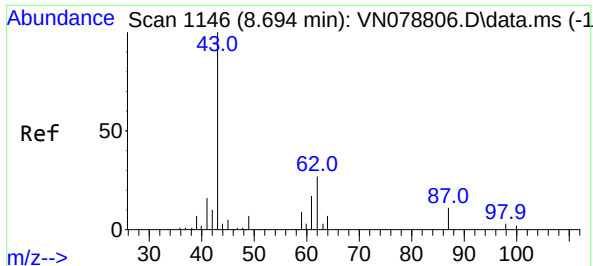
Tgt Ion: 62 Resp: 6314
Ion Ratio Lower Upper
62 100
98 0.0 7.4 11.0#



#41
Bromodichloromethane
Concen: 0.265 ug/l
RT: 9.894 min Scan# 1350
Delta R.T. -0.000 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

Tgt Ion: 83 Resp: 671
Ion Ratio Lower Upper
83 100
85 42.2 54.1 81.1#
127 0.0 7.8 11.6#

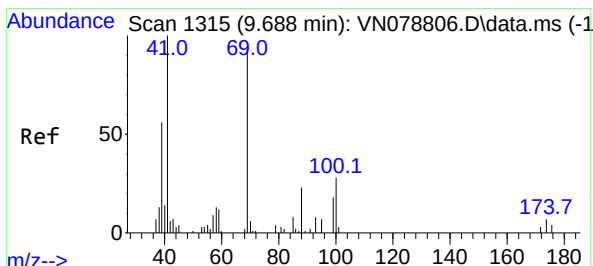
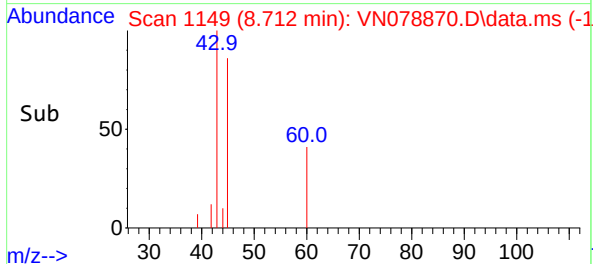
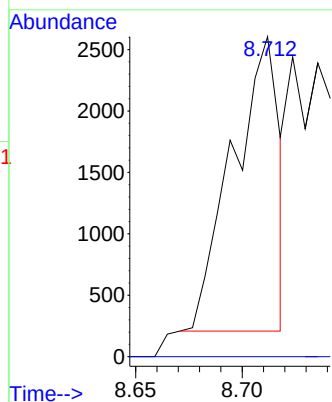
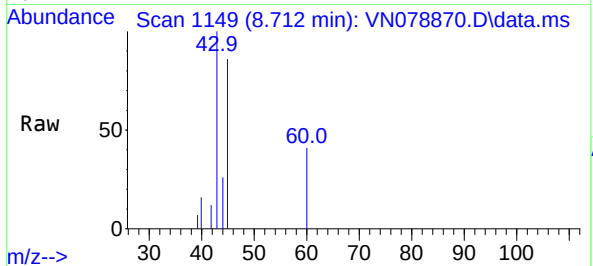




#44
Isopropyl Acetate
Concen: 0.853 ug/l
RT: 8.712 min Scan# 1149
Delta R.T. 0.018 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

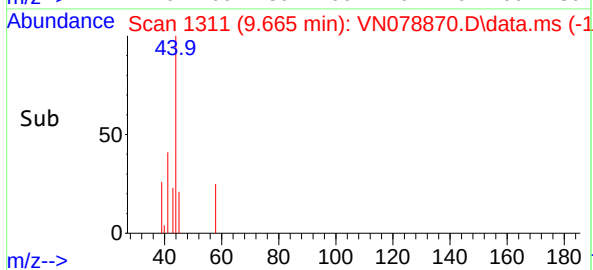
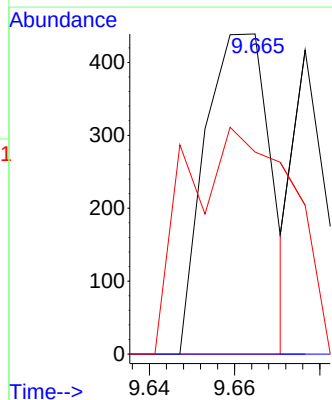
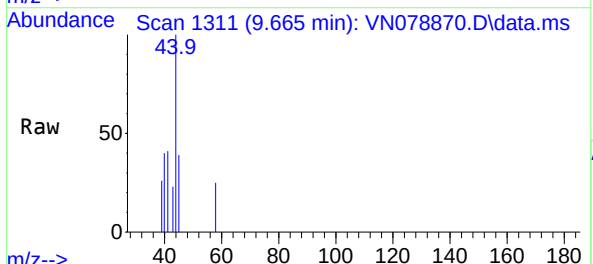
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

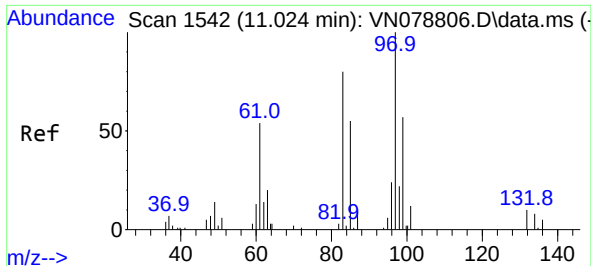
Tgt Ion: 43 Resp: 3648
Ion Ratio Lower Upper
43 100
61 0.0 23.0 34.6#



#46
Methyl methacrylate
Concen: 0.263 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.024 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

Tgt Ion: 41 Resp: 476
Ion Ratio Lower Upper
41 100
69 0.0 49.0 147.0#
39 5.1 31.6 94.8#





#50

1,1,2-Trichloroethane

Concen: 4.015 ug/l

RT: 10.582 min Scan# 1467

Delta R.T. -0.441 min

Lab File: VN078870.D

Acq: 11 Aug 2023 18:04

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

Tgt Ion: 97 Resp: 6846

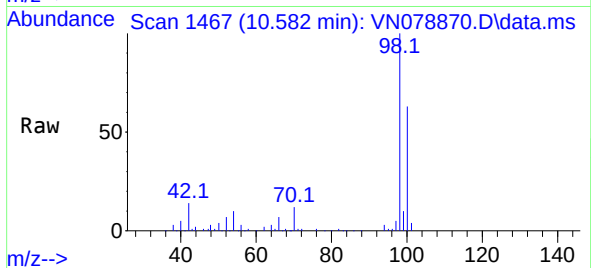
Ion Ratio Lower Upper

97 100

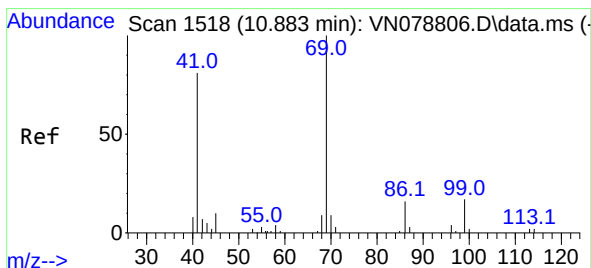
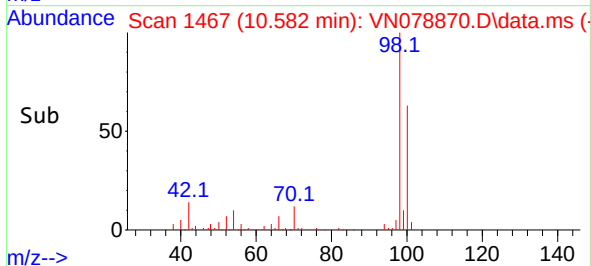
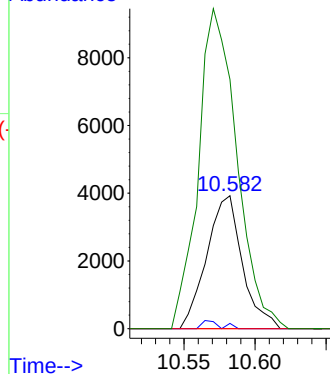
83 4.0 66.8 100.2#

85 0.0 42.5 63.7#

99 182.7 48.3 72.5#



Abundance



#51

Ethyl methacrylate

Concen: 0.208 ug/l

RT: 10.582 min Scan# 1467

Delta R.T. -0.300 min

Lab File: VN078870.D

Acq: 11 Aug 2023 18:04

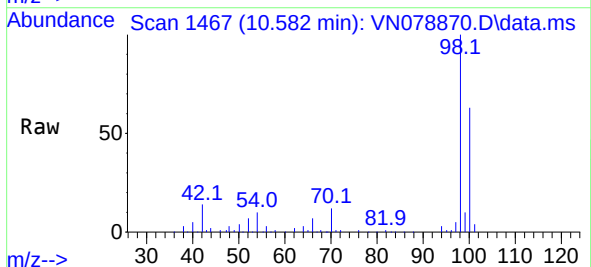
Tgt Ion: 69 Resp: 498

Ion Ratio Lower Upper

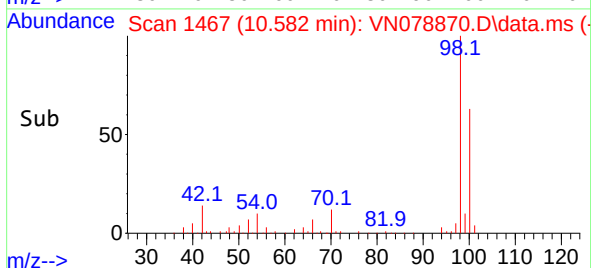
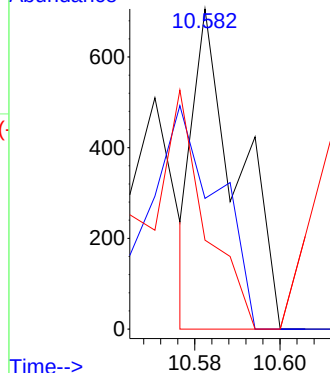
69 100

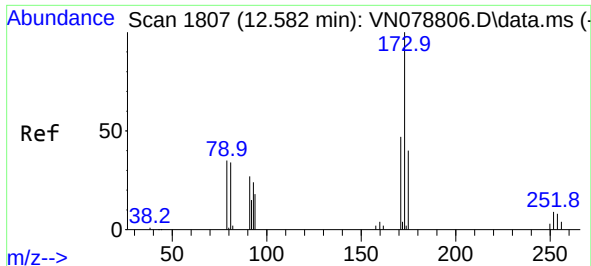
41 40.8 26.0 78.0

39 27.8 16.3 48.9



Abundance

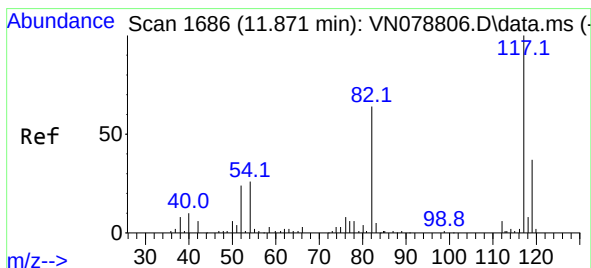
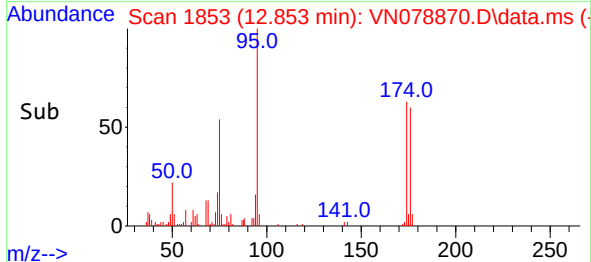
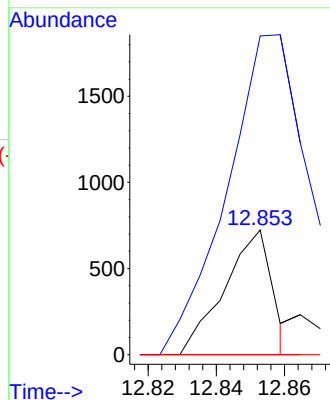
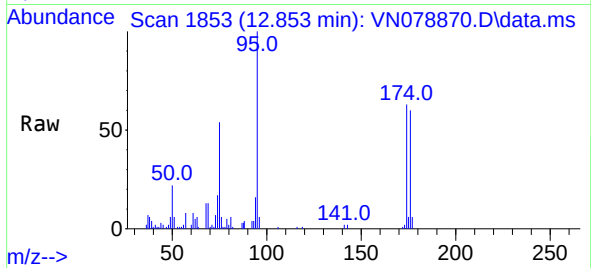




#56
Bromoform
Concen: 0.632 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.270 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

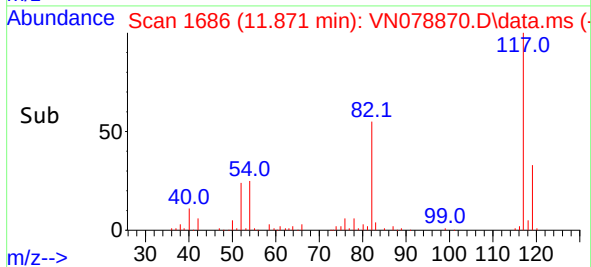
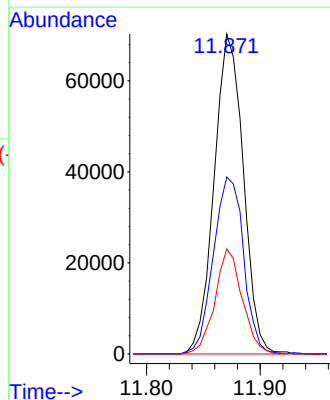
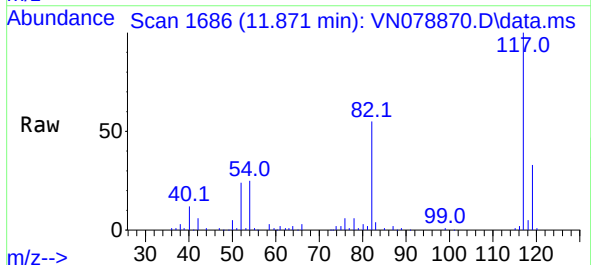
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

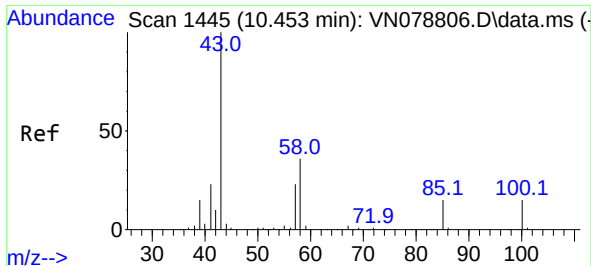
Tgt Ion:173 Resp: 704
Ion Ratio Lower Upper
173 100
175 0.0 40.7 61.1#
254 0.0 6.5 9.7#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

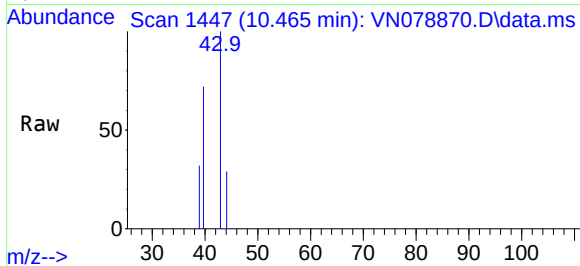
Tgt Ion:117 Resp: 125445
Ion Ratio Lower Upper
117 100
82 57.2 43.9 65.9
119 30.7 26.2 39.4



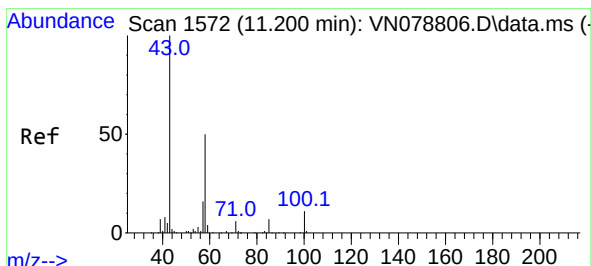
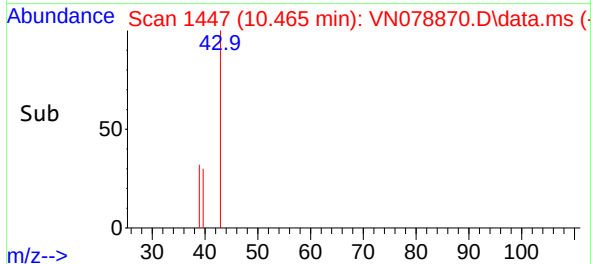
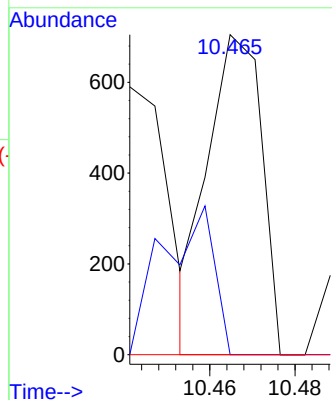


#58
4-Methyl-2-Pentanone
Concen: 0.255 ug/l
RT: 10.465 min Scan# 1447
Delta R.T. 0.012 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

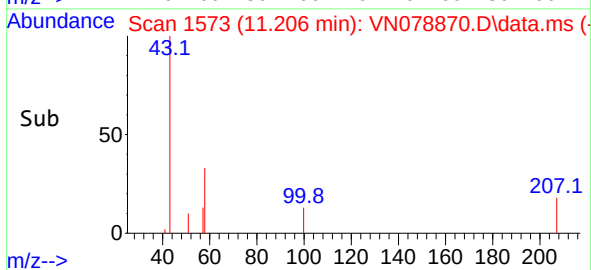
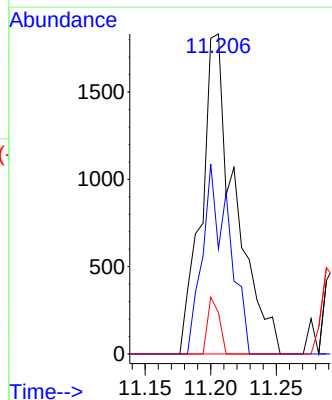
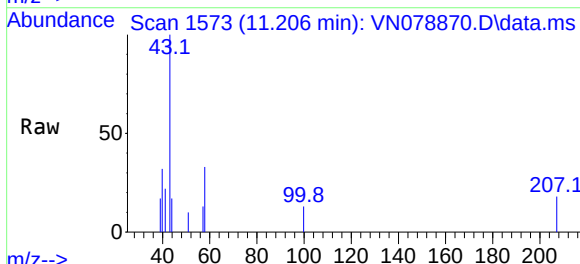


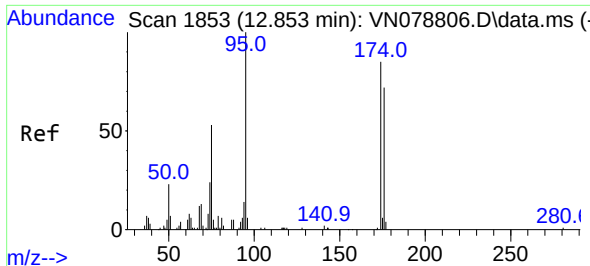
Tgt Ion: 43 Resp: 616
Ion Ratio Lower Upper
43 100
58 44.8 32.6 48.8
85 0.0 16.2 24.2#



#59
2-Hexanone
Concen: 1.957 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.006 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

Tgt Ion: 43 Resp: 3279
Ion Ratio Lower Upper
43 100
58 46.6 45.9 68.9
57 6.0 15.8 23.6#

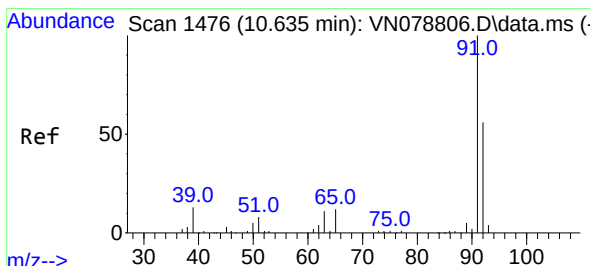
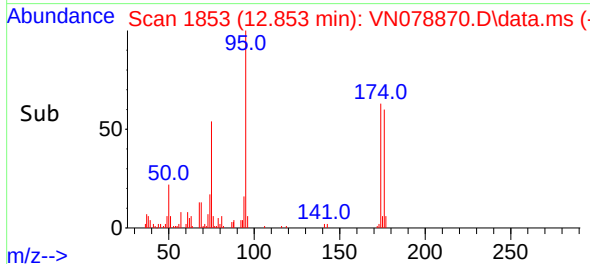
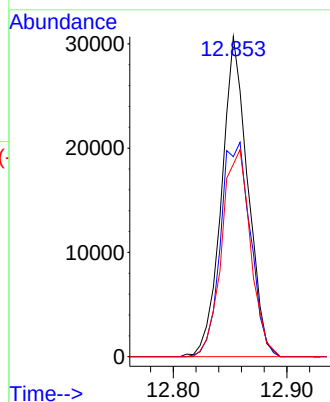
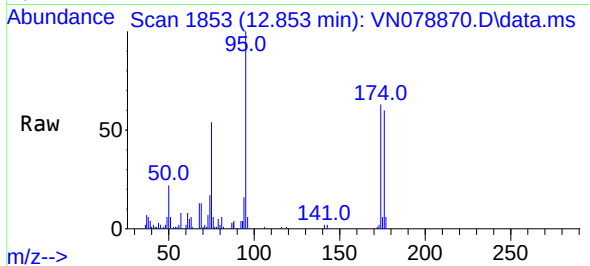




#60
4-Bromofluorobenzene
Concen: 27.972 ug/l
RT: 12.853 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

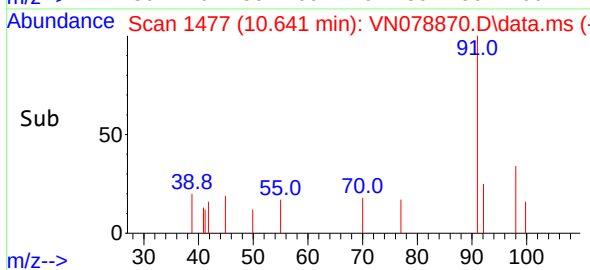
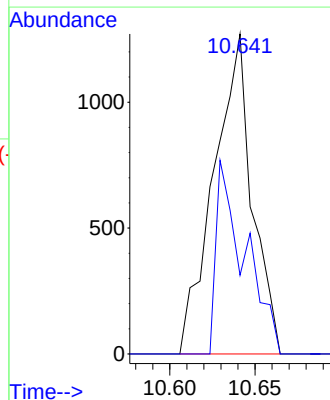
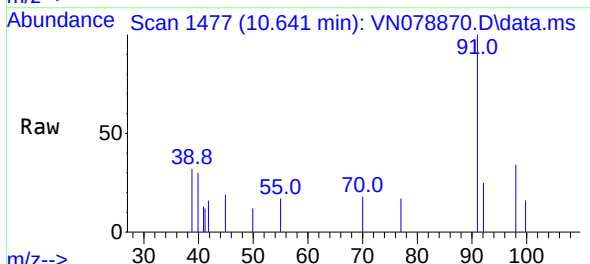
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

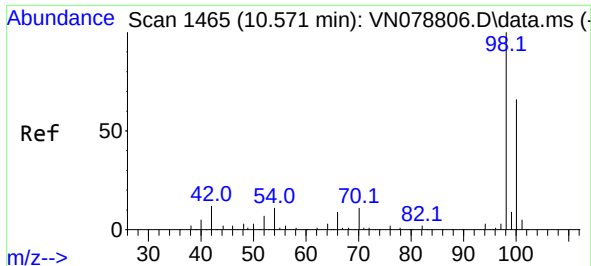
Tgt Ion: 95 Resp: 49254
Ion Ratio Lower Upper
95 100
174 76.3 61.7 92.5
176 70.8 58.1 87.1



#62
Toluene
Concen: 0.270 ug/l
RT: 10.641 min Scan# 1477
Delta R.T. 0.006 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

Tgt Ion: 91 Resp: 1991
Ion Ratio Lower Upper
91 100
92 44.9 45.2 67.8#

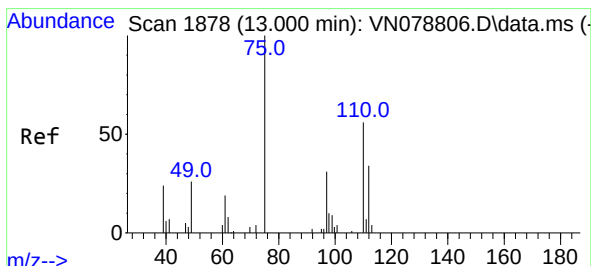
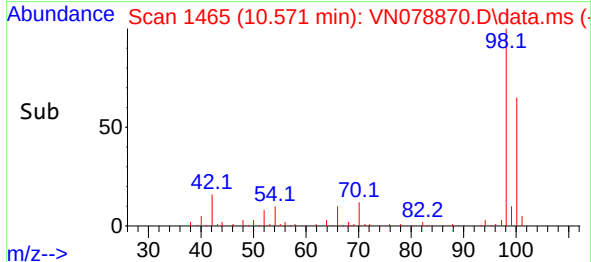
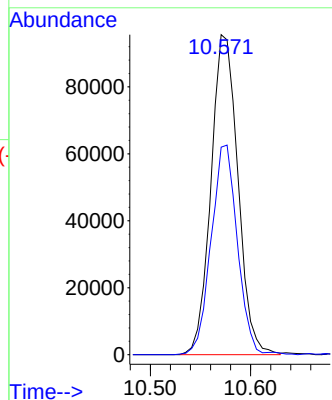
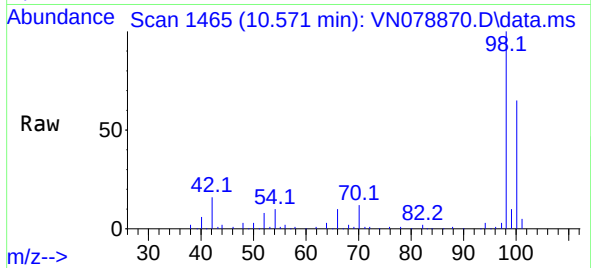




#63
Toluene-d8
Concen: 29.041 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

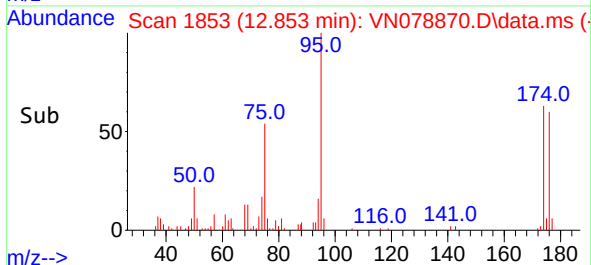
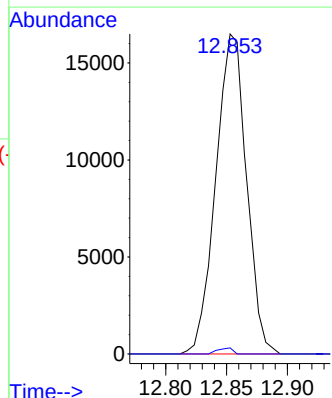
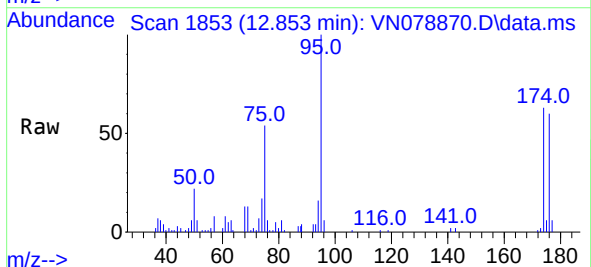
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

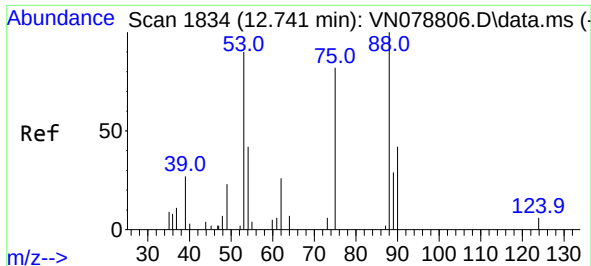
Tgt Ion: 98 Resp: 178518
Ion Ratio Lower Upper
98 100
100 63.4 49.7 74.5



#72
1,2,3-Trichloropropane
Concen: 14.170 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

Tgt Ion: 75 Resp: 28982
Ion Ratio Lower Upper
75 100
77 0.9 0.0 387.4

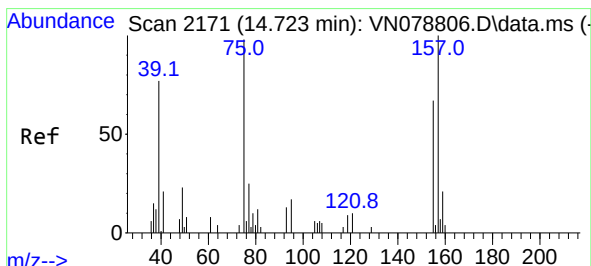
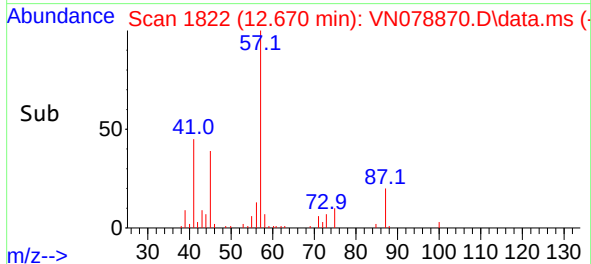
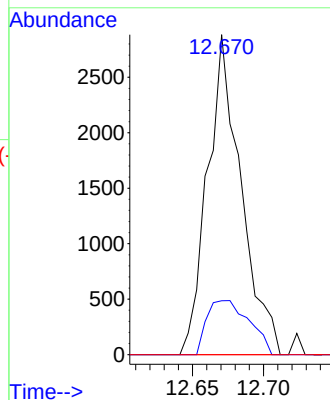
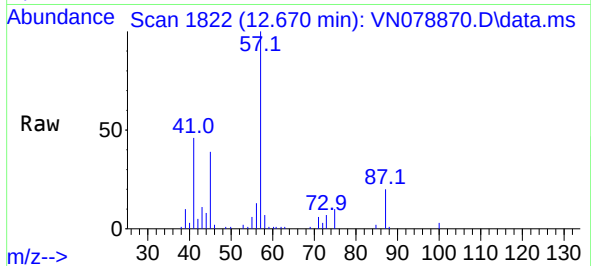




#77
t-1,4-Dichloro-2-butene
Concen: 7.383 ug/l
RT: 12.670 min Scan# 11
Delta R.T. -0.071 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

Tgt Ion: 75 Resp: 4740
Ion Ratio Lower Upper
75 100
53 16.8 41.6 124.9#
89 0.0 25.1 75.4#



#88
1,2-Dibromo-3-Chloropropane
Concen: 3.491 ug/l
RT: 14.541 min Scan# 2140
Delta R.T. -0.182 min
Lab File: VN078870.D
Acq: 11 Aug 2023 18:04

Tgt Ion: 75 Resp: 1162
Ion Ratio Lower Upper
75 100
155 0.0 68.2 102.2#
157 0.0 84.7 127.1#

