

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051622\
 Data File : VN072524.D
 Acq On : 17 May 2022 00:36
 Operator : JC\MD
 Sample : N2880-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: May 17 07:23:13 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N051622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 17 06:34:50 2022
 Response via : Initial Calibration

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

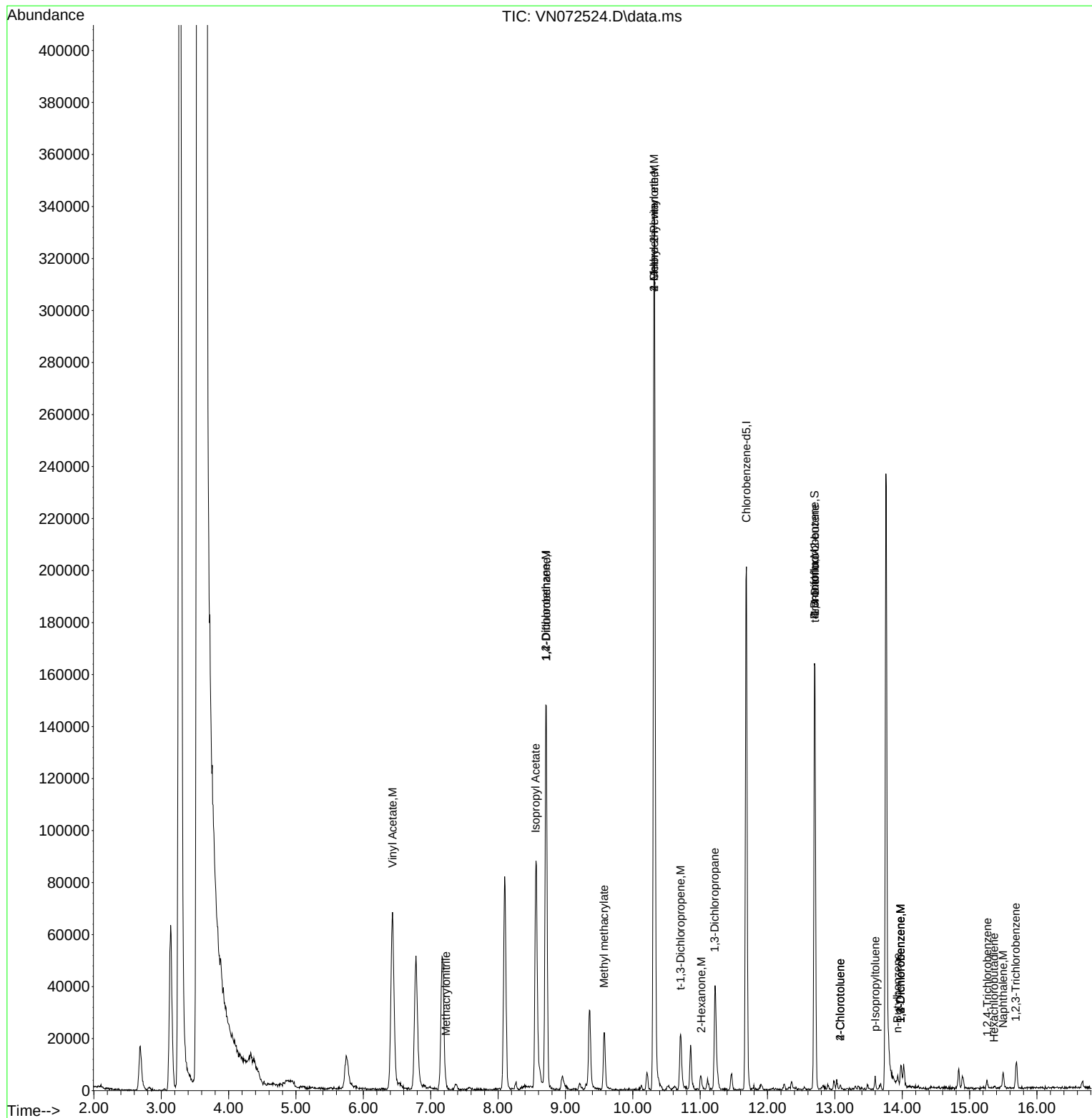
Internal Standards						
1) Bromochloromethane	0.000	128	0	0.000	ug/l	-7.65
28) 1,4-Difluorobenzene	8.716	114	128864	30.000	ug/l	-0.25
57) Chlorobenzene-d5	11.686	117	116460	30.000	ug/l	-0.05
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.098	65	82522	0.000	ug/l	-0.34
Spiked Amount	30.000	Range	91 - 110	Recovery	=	0.000%#
60) 4-Bromofluorobenzene	12.698	95	56632	24.905	ug/l	-0.03
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.000%
63) Toluene-d8	10.422	98	328	0.052	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 112	Recovery	=	0.167%#
Target Compounds						
					Qvalue	
35) Methacrylonitrile	7.228	41	317	0.202	ug/l #	34
36) 1,2-Dichloroethane	8.710	62	5187	1.527	ug/l #	77
42) Vinyl Acetate	6.434	43	41096	8.220	ug/l #	74
44) Isopropyl Acetate	8.557	43	3004	0.647	ug/l #	50
46) Methyl methacrylate	9.575	41	815	0.371	ug/l #	32
48) t-1,3-Dichloropropene	10.710	75	831	0.262	ug/l #	43
52) 1,3-Dichloropropane	11.216	76	1173	0.347	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.316	63	323	0.417	ug/l #	1
56) Bromoform	12.698	173	391	0.220	ug/l #	29
58) 4-Methyl-2-Pentanone	10.316	43	2189	0.798	ug/l #	8
59) 2-Hexanone	11.016	43	4661	2.312	ug/l	93
75) 2-Chlorotoluene	13.080	91	1253	0.201	ug/l	98
77) t-1,4-Dichloro-2-butene	12.704	75	31668	38.024	ug/l #	8
78) 4-Chlorotoluene	13.080	91	1253	0.215	ug/l	98
82) p-Isopropyltoluene	13.598	119	1471	0.203	ug/l	94
83) 1,3-Dichlorobenzene	13.974	146	784	0.217	ug/l	77
84) 1,4-Dichlorobenzene	13.974	146	784	0.223	ug/l	75
85) n-Butylbenzene	13.927	91	2294	0.427	ug/l	94
87) 1,2-Dichlorobenzene	13.974	146	784	0.222	ug/l	76
89) 1,2,4-Trichlorobenzene	15.262	180	1157	0.723	ug/l	93
90) Hexachlorobutadiene	15.362	225	234	0.237	ug/l	71
91) Naphthalene	15.498	128	6641	8.740	ug/l #	87
92) 1,2,3-Trichlorobenzene	15.686	180	1667	1.023	ug/l	88

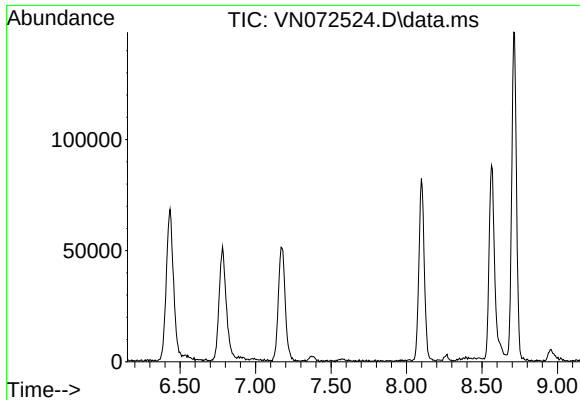
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue May 17 06:34:50 2022
Response via : Initial Calibration

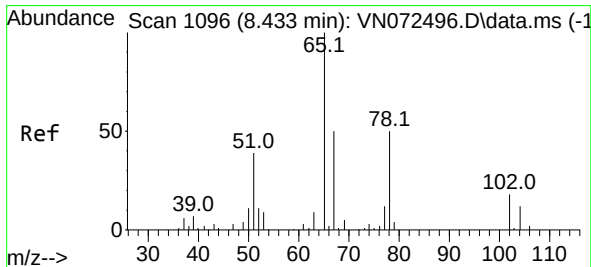
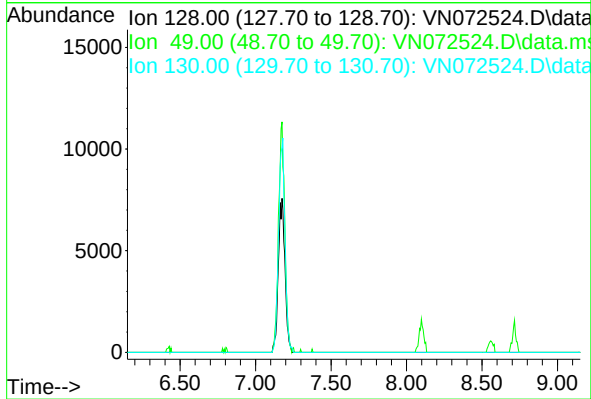




#1
 Bromochloromethane
 Concen: 0.000 ug/l
 Expected RT: 7.65 min
 Lab File: VN072524.D
 Acq: 17 May 2022 00:36

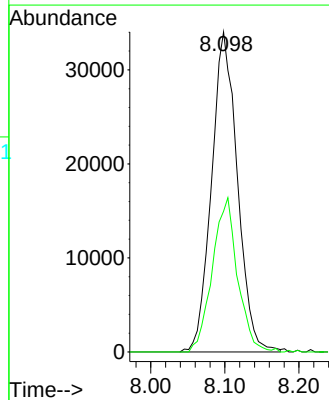
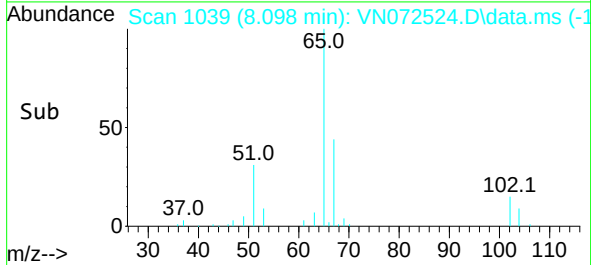
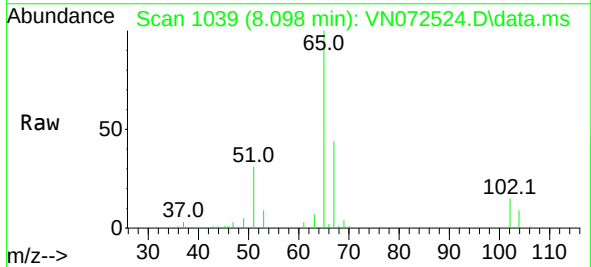
Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

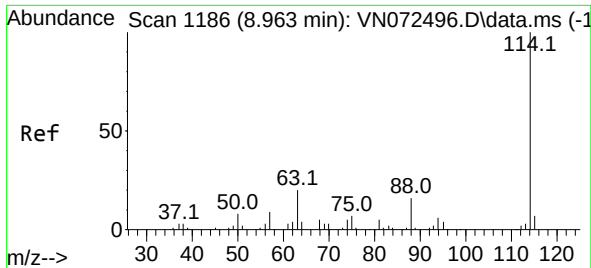
Tgt Ion: 128
 Sig Exp Ratio
 128 100
 49 156.9
 130 128.1



#27
 1,2-Dichloroethane-d4
 Concen: 0.000 ug/l
 RT: 8.098 min Scan# 1039
 Delta R.T. -0.335 min
 Lab File: VN072524.D
 Acq: 17 May 2022 00:36

Tgt Ion: 65 Resp: 82522
 Ion Ratio Lower Upper
 65 100
 67 46.8 40.2 60.2

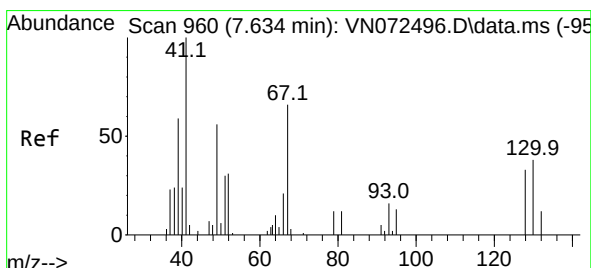
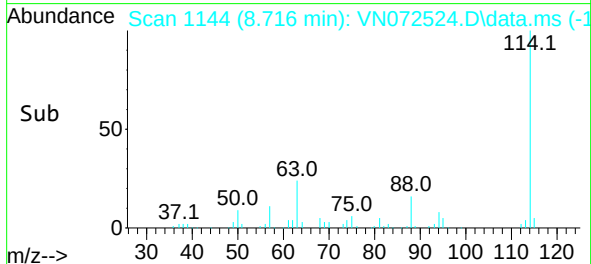
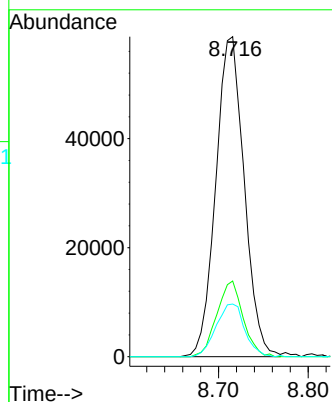
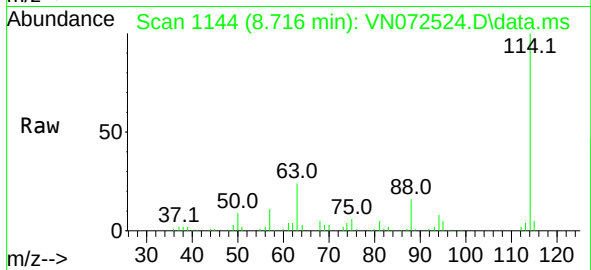




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 8.716 min Scan# 1186
Delta R.T. -0.247 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

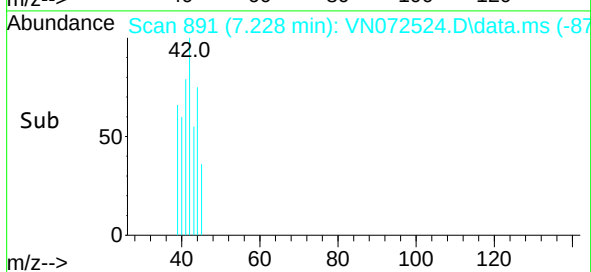
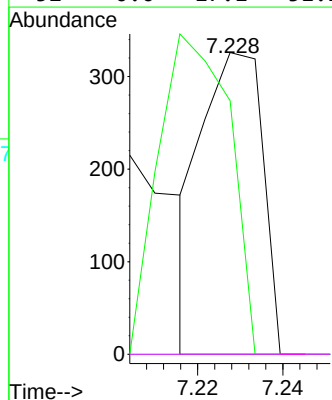
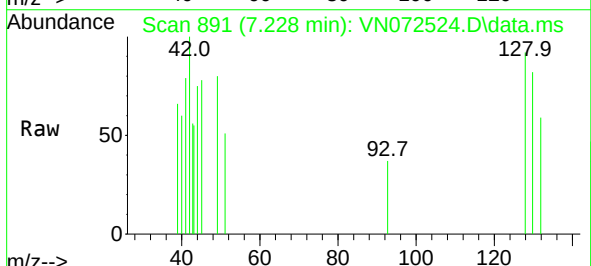
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

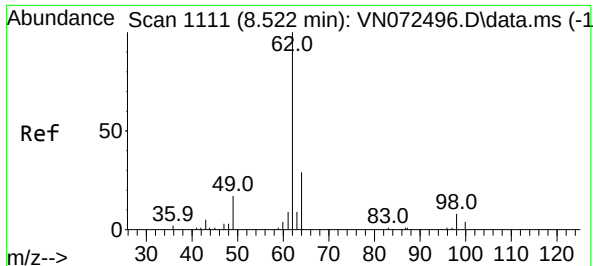
Tgt Ion:114 Resp: 128864
Ion Ratio Lower Upper
114 100
63 21.9 15.8 23.6
88 16.6 11.6 17.4



#35
Methacrylonitrile
Concen: 0.202 ug/l
RT: 7.228 min Scan# 891
Delta R.T. -0.406 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Tgt Ion: 41 Resp: 317
Ion Ratio Lower Upper
41 100
39 84.0 28.0 83.9#
67 0.0 37.7 113.1#
52 0.0 17.1 51.2#





#36

1,2-Dichloroethane

Concen: 1.527 ug/l

RT: 8.710 min Scan# 1111

Delta R.T. 0.188 min

Lab File: VN072524.D

Acq: 17 May 2022 00:36

Instrument :

MSVOA_N

ClientSampleId :

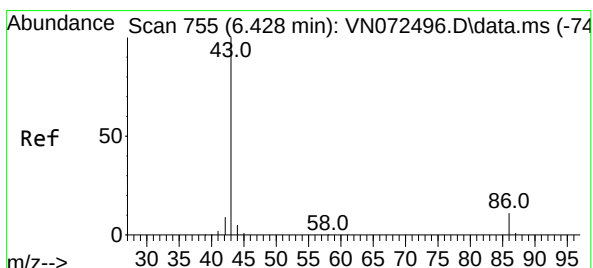
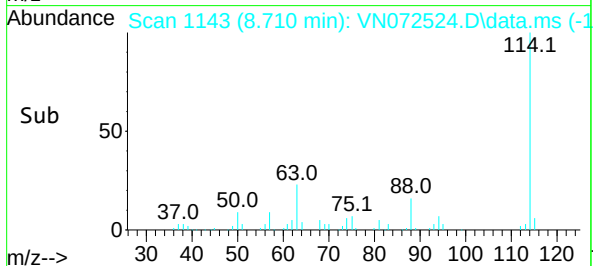
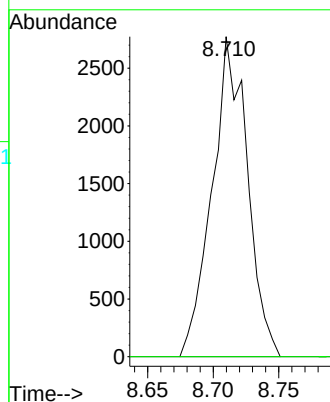
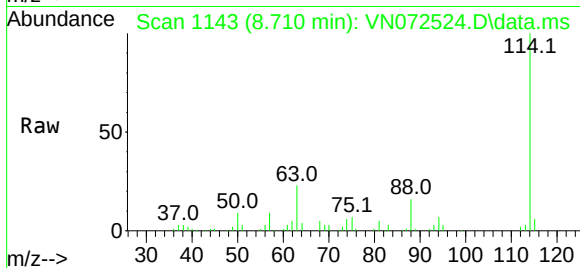
EFF-WW

Tgt Ion: 62 Resp: 5187

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#



#42

Vinyl Acetate

Concen: 8.220 ug/l

RT: 6.434 min Scan# 756

Delta R.T. 0.006 min

Lab File: VN072524.D

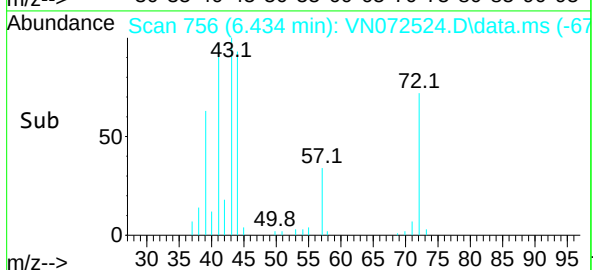
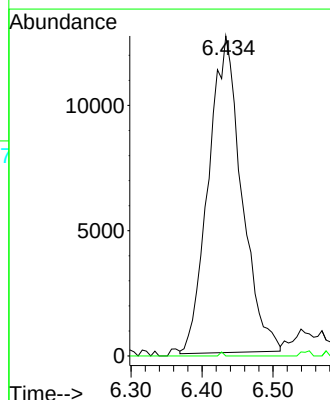
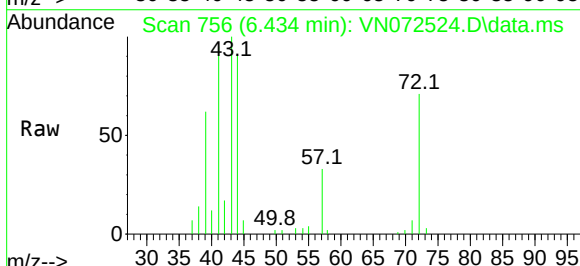
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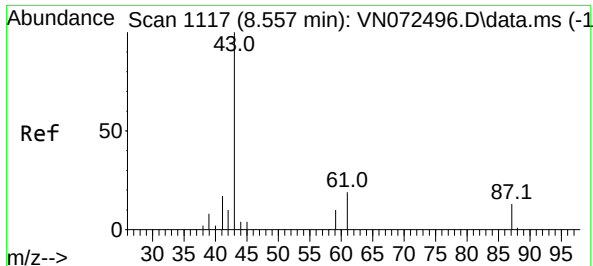
Tgt Ion: 43 Resp: 41096

Ion Ratio Lower Upper

43 100

86 0.0 7.5 11.3#

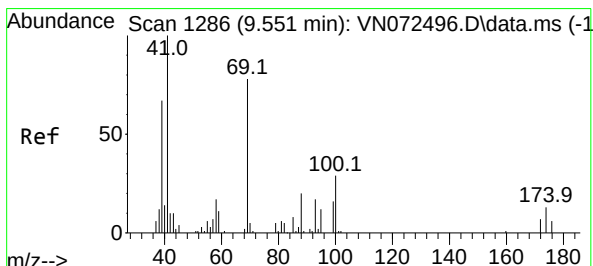
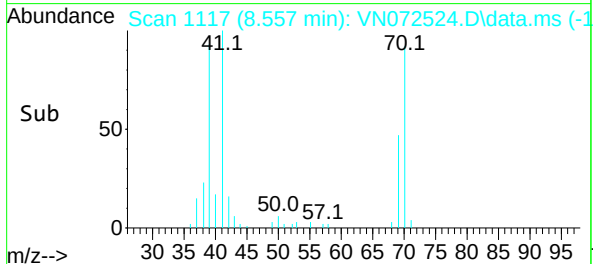
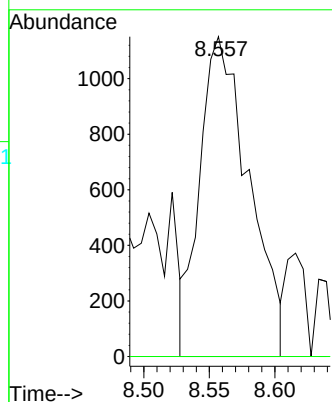
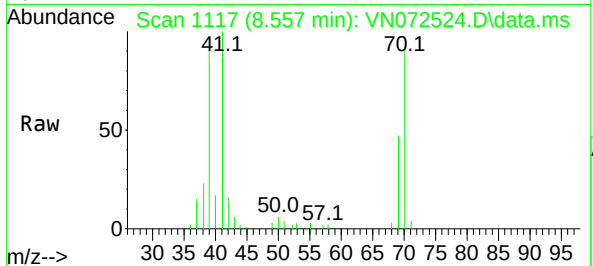




#44
Isopropyl Acetate
Concen: 0.647 ug/l
RT: 8.557 min Scan# 1117
Delta R.T. -0.000 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

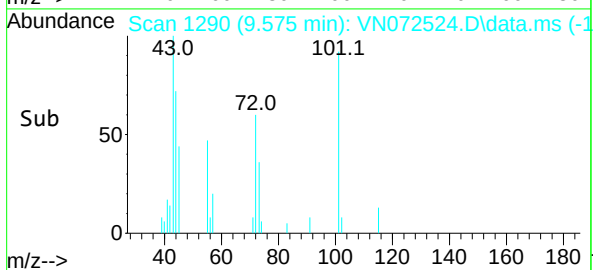
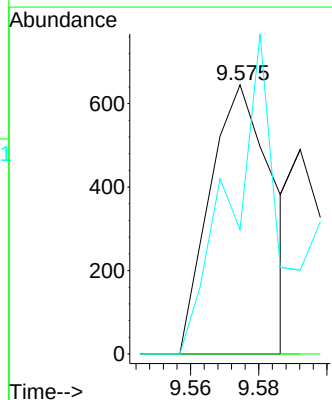
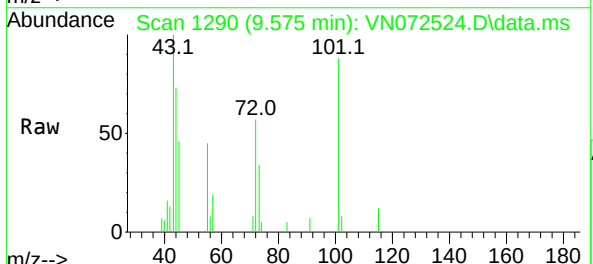
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

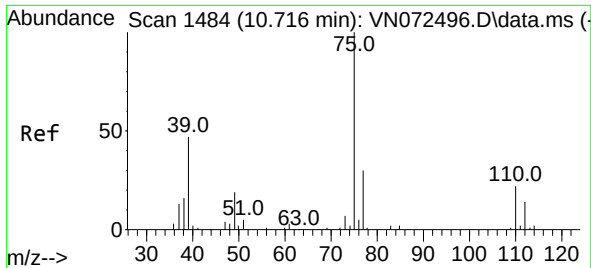
Tgt Ion: 43 Resp: 3004
Ion Ratio Lower Upper
43 100
61 0.0 20.1 30.1#



#46
Methyl methacrylate
Concen: 0.371 ug/l
RT: 9.575 min Scan# 1290
Delta R.T. 0.023 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Tgt Ion: 41 Resp: 815
Ion Ratio Lower Upper
41 100
69 0.0 44.4 133.2#
39 46.2 39.9 119.6

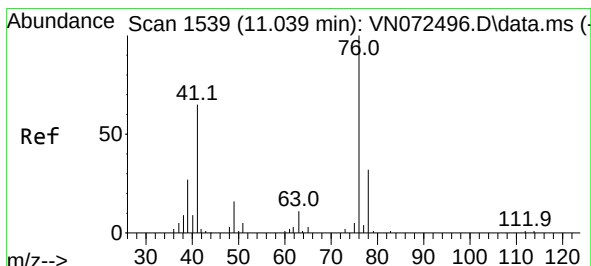
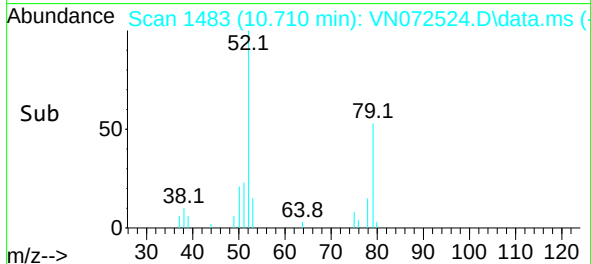
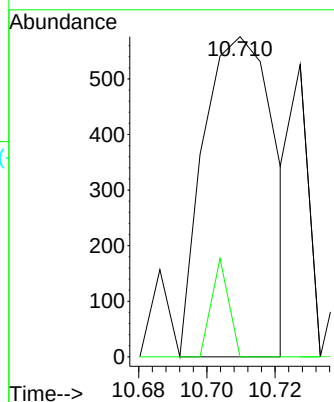
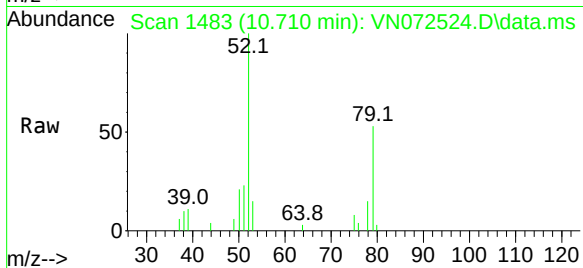




#48
t-1,3-Dichloropropene
Concen: 0.262 ug/l
RT: 10.710 min Scan# 1483
Delta R.T. -0.006 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

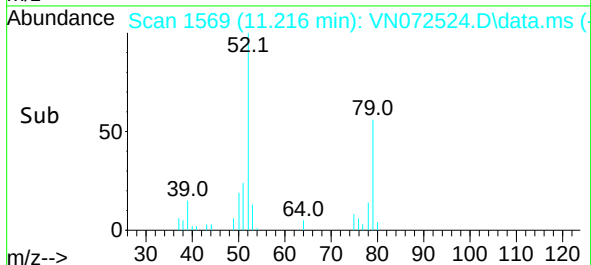
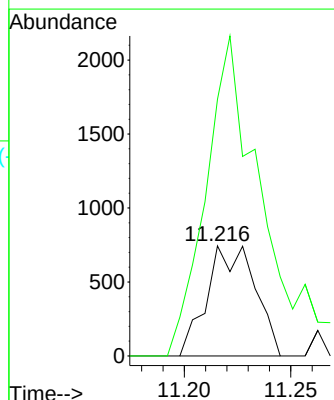
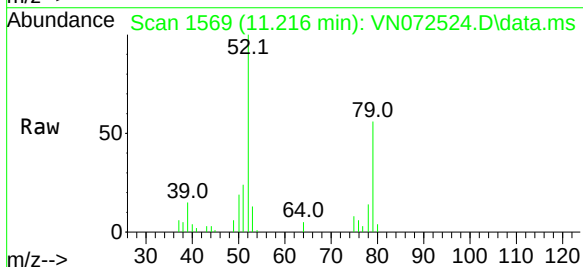
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MSVOA_N
ClientSampleId :
EFF-WW

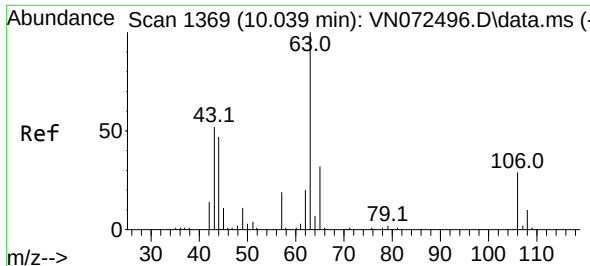
Tgt Ion: 75 Resp: 831
Ion Ratio Lower Upper
75 100
77 0.0 25.3 37.9#



#52
1,3-Dichloropropane
Concen: 0.347 ug/l
RT: 11.216 min Scan# 1569
Delta R.T. 0.176 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Tgt Ion: 76 Resp: 1173
Ion Ratio Lower Upper
76 100
78 309.6 0.0 65.4#

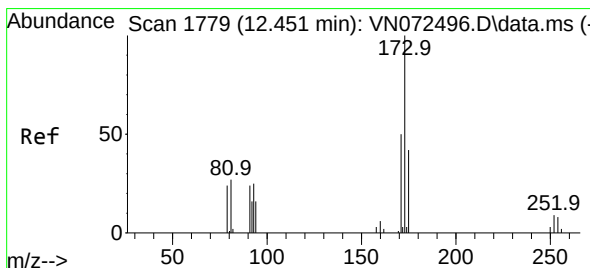
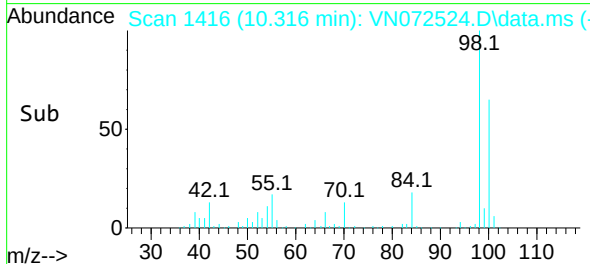
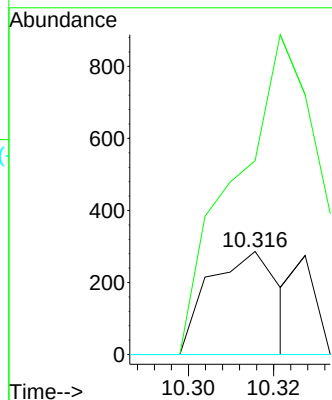
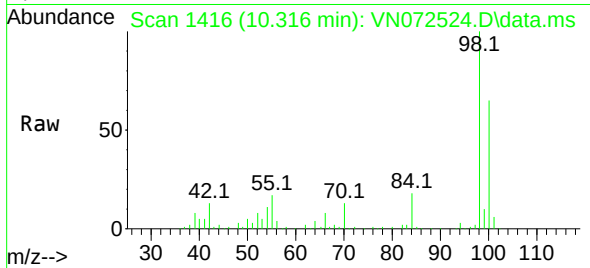




#55
2-Chloroethyl vinyl ether
Concen: 0.417 ug/l
RT: 10.316 min Scan# 1416
Delta R.T. 0.276 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

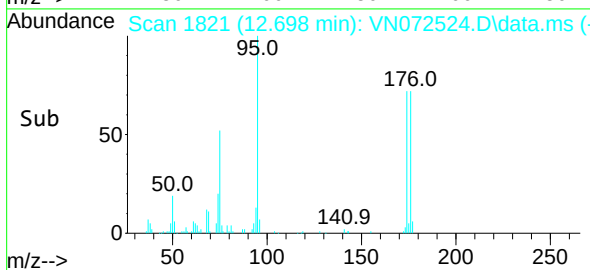
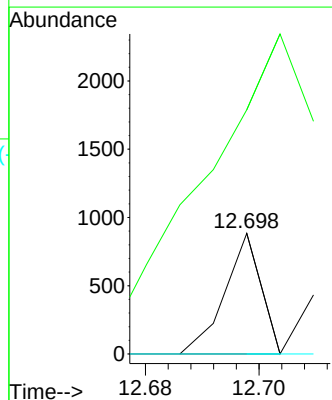
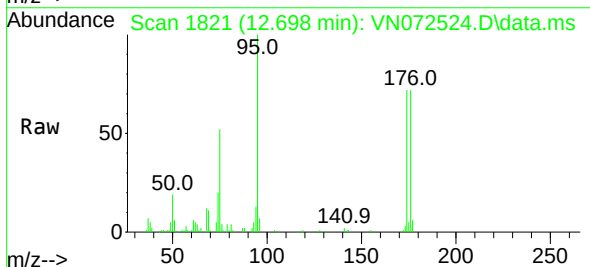
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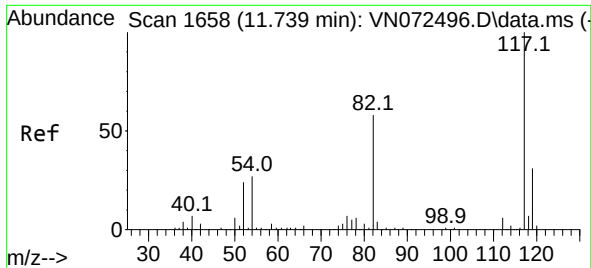
Tgt Ion: 63 Resp: 323
Ion Ratio Lower Upper
63 100
65 443.7 25.4 38.0#
106 0.0 23.2 34.8#



#56
Bromoform
Concen: 0.220 ug/l
RT: 12.698 min Scan# 1821
Delta R.T. 0.247 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Tgt Ion: 173 Resp: 391
Ion Ratio Lower Upper
173 100
175 0.0 38.6 58.0#
254 0.0 0.0 0.0

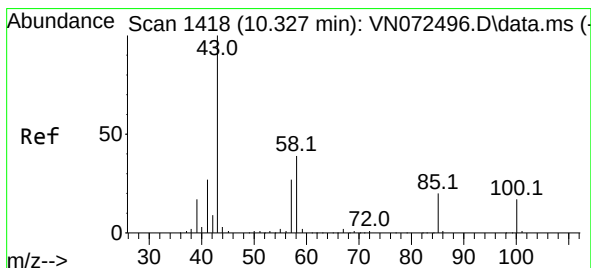
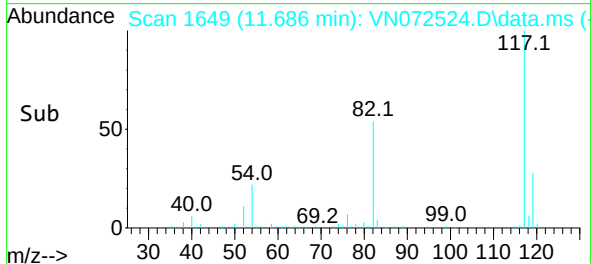
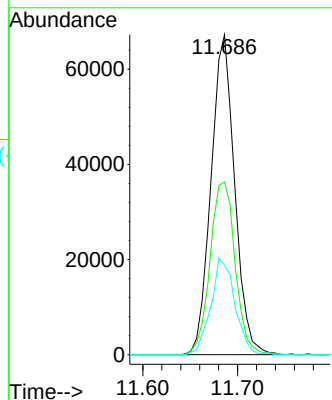
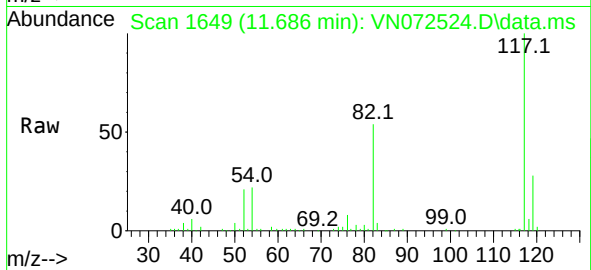




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.686 min Scan# 116460
Delta R.T. -0.053 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

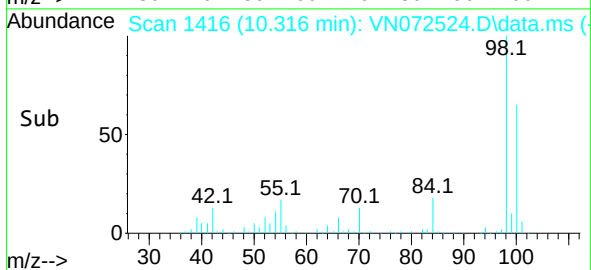
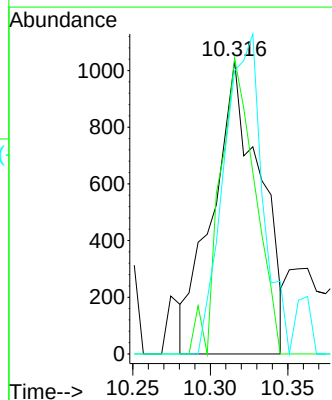
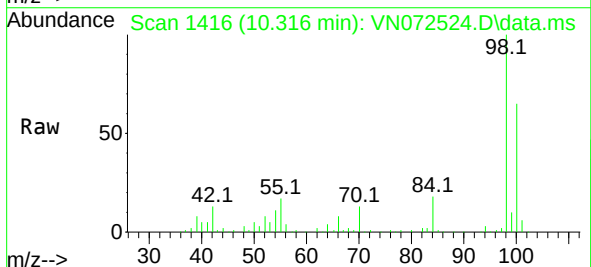
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

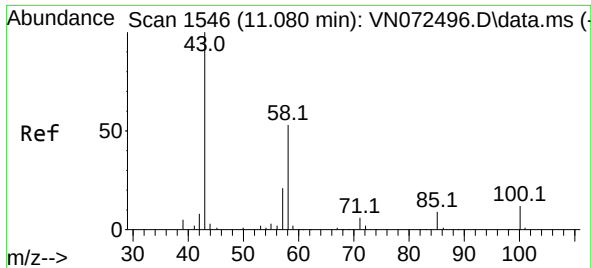
Tgt Ion:117 Resp: 116460
Ion Ratio Lower Upper
117 100
82 57.5 43.6 65.4
119 30.5 25.8 38.6



#58
4-Methyl-2-Pentanone
Concen: 0.798 ug/l
RT: 10.316 min Scan# 1416
Delta R.T. -0.012 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Tgt Ion: 43 Resp: 2189
Ion Ratio Lower Upper
43 100
58 72.7 30.0 45.0#
85 89.4 15.0 22.6#

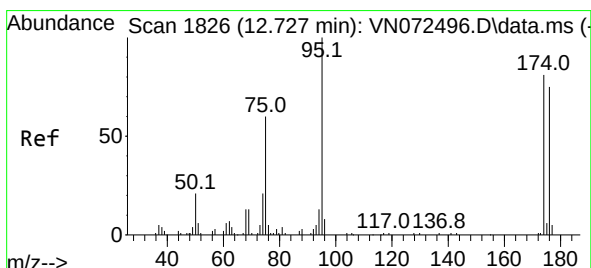
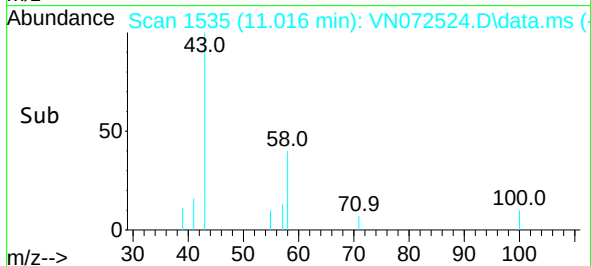
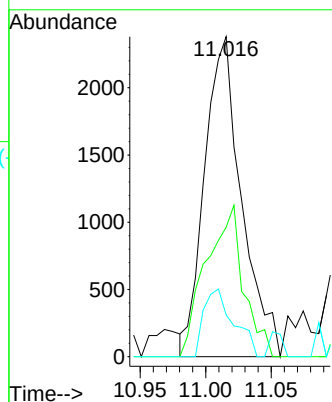
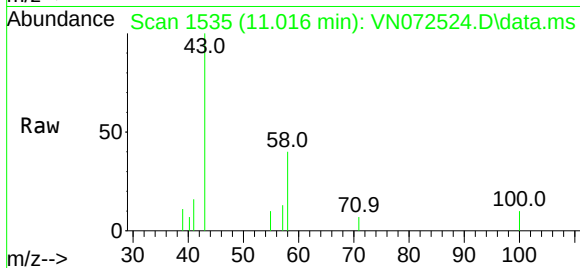




#59
2-Hexanone
Concen: 2.312 ug/l
RT: 11.016 min Scan# 11
Delta R.T. -0.065 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

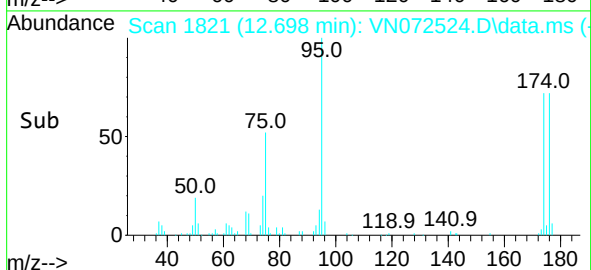
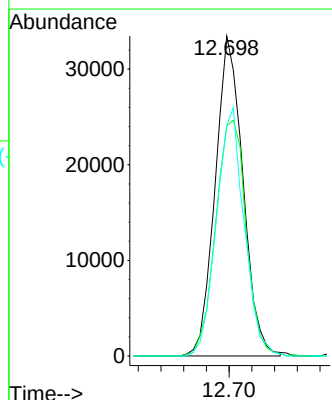
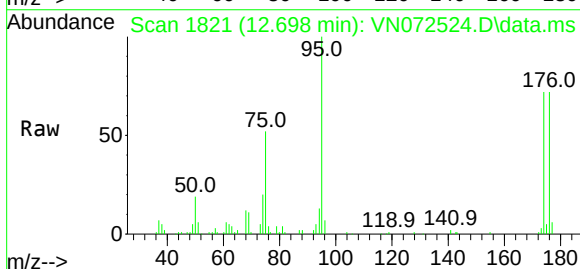
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

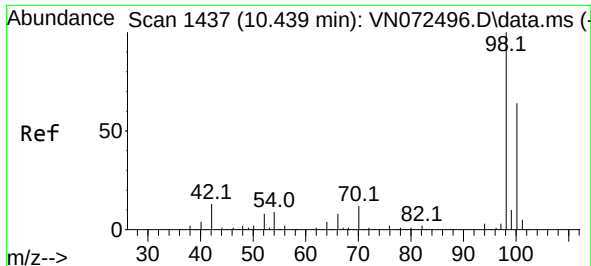
Tgt Ion: 43 Resp: 4661
Ion Ratio Lower Upper
43 100
58 47.8 42.2 63.2
57 15.7 15.0 22.4



#60
4-Bromofluorobenzene
Concen: 24.905 ug/l
RT: 12.698 min Scan# 1821
Delta R.T. -0.029 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Tgt Ion: 95 Resp: 56632
Ion Ratio Lower Upper
95 100
174 80.7 62.9 94.3
176 77.6 61.0 91.4

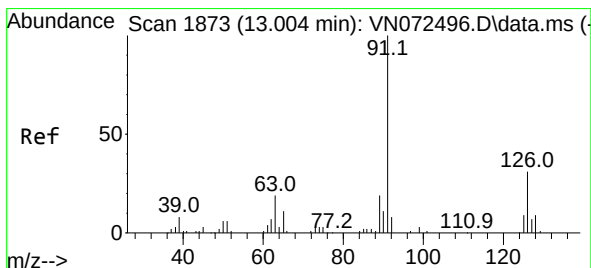
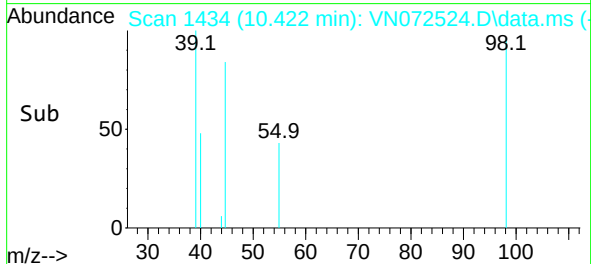
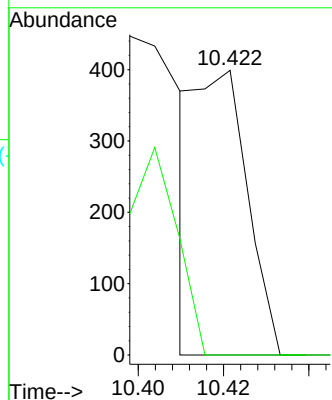
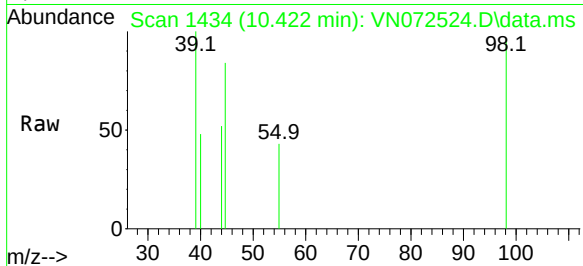




#63
Toluene-d8
Concen: 0.052 ug/l
RT: 10.422 min Scan# 1434
Delta R.T. -0.018 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

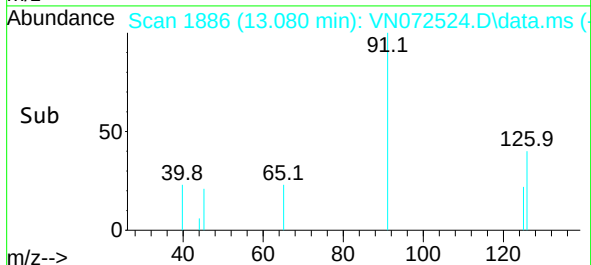
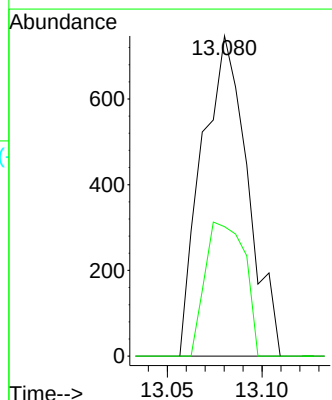
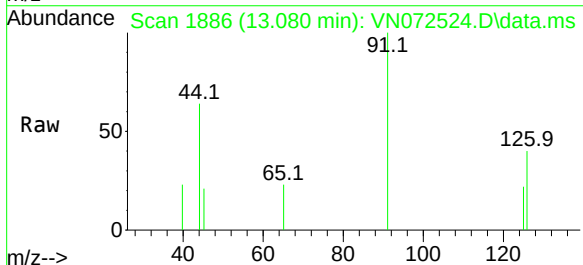
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

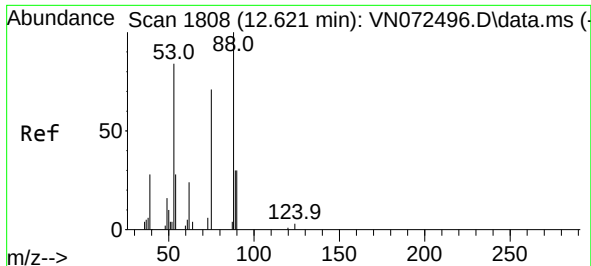
Tgt Ion: 98 Resp: 328
Ion Ratio Lower Upper
98 100
100 70.1 50.6 76.0



#75
2-Chlorotoluene
Concen: 0.201 ug/l
RT: 13.080 min Scan# 1886
Delta R.T. 0.076 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Tgt Ion: 91 Resp: 1253
Ion Ratio Lower Upper
91 100
126 36.2 0.0 69.8

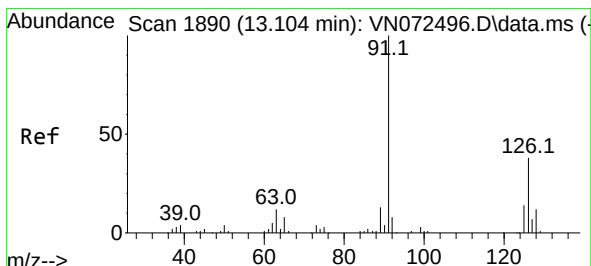
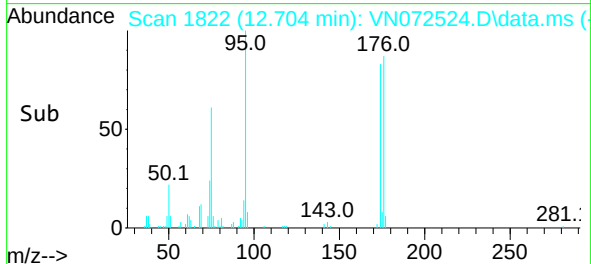
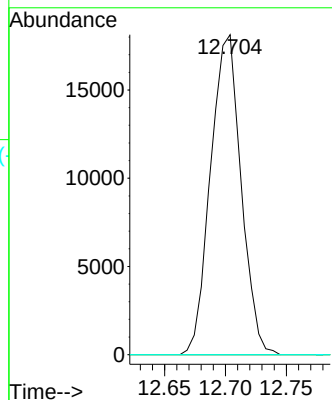
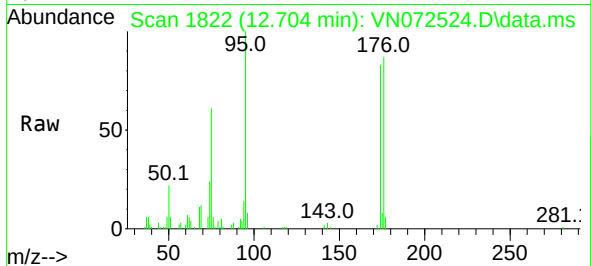




#77
t-1,4-Dichloro-2-butene
Concen: 38.024 ug/l
RT: 12.704 min Scan# 11
Delta R.T. 0.082 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

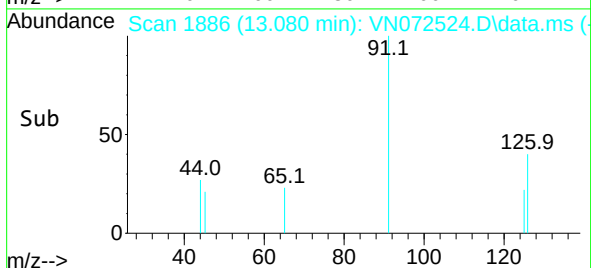
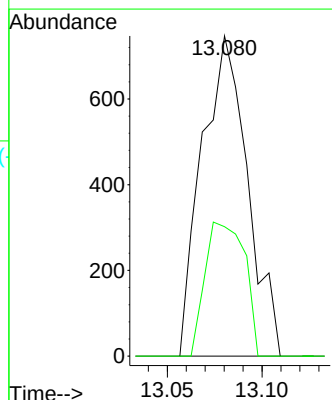
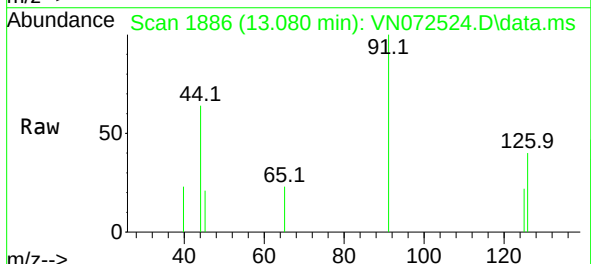
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

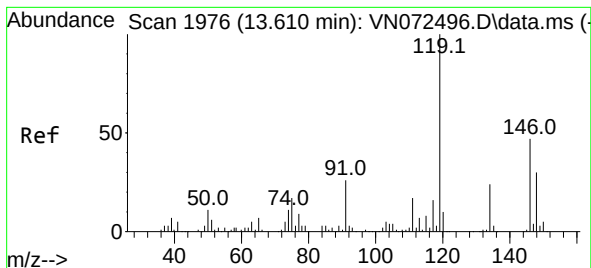
Tgt Ion: 75 Resp: 31668
Ion Ratio Lower Upper
75 100
53 0.0 51.8 155.5#
89 0.0 22.9 68.7#



#78
4-Chlorotoluene
Concen: 0.215 ug/l
RT: 13.080 min Scan# 1886
Delta R.T. -0.024 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Tgt Ion: 91 Resp: 1253
Ion Ratio Lower Upper
91 100
126 36.2 0.0 70.6





#82

p-Isopropyltoluene

Concen: 0.203 ug/l

RT: 13.598 min Scan# 1974

Delta R.T. -0.012 min

Lab File: VN072524.D

Acq: 17 May 2022 00:36

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

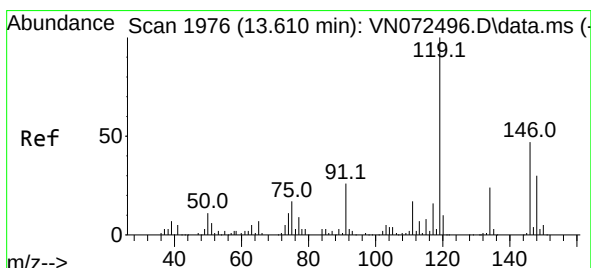
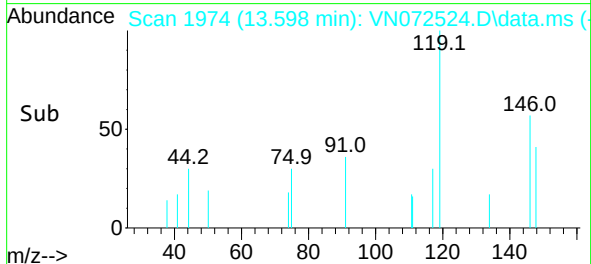
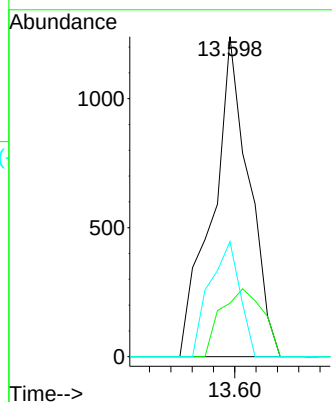
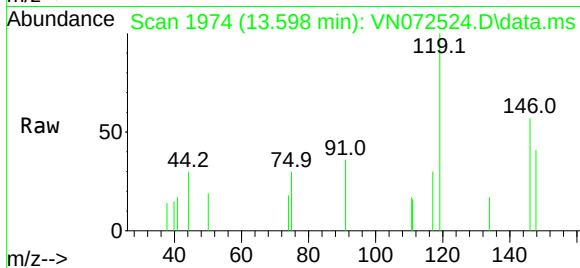
Tgt Ion:119 Resp: 1471

Ion Ratio Lower Upper

119 100

134 24.5 0.0 51.8

91 29.8 0.0 50.4



#83

1,3-Dichlorobenzene

Concen: 0.217 ug/l

RT: 13.974 min Scan# 2038

Delta R.T. 0.365 min

Lab File: VN072524.D

Acq: 17 May 2022 00:36

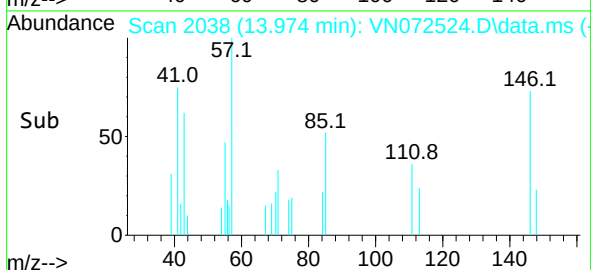
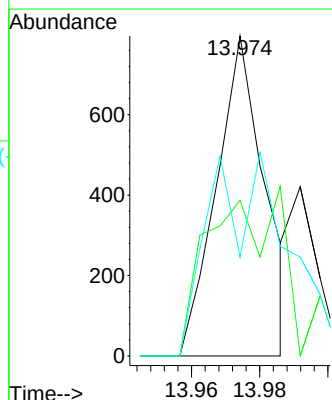
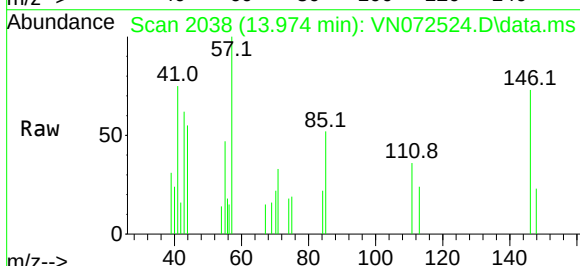
Tgt Ion:146 Resp: 784

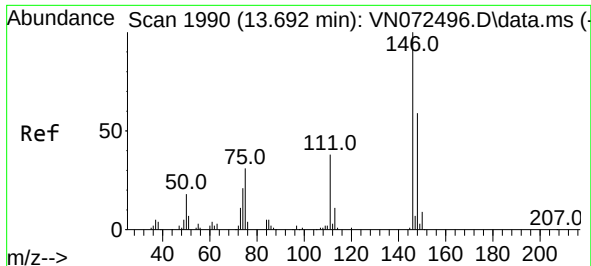
Ion Ratio Lower Upper

146 100

111 56.6 20.8 62.2

148 45.4 31.4 94.3

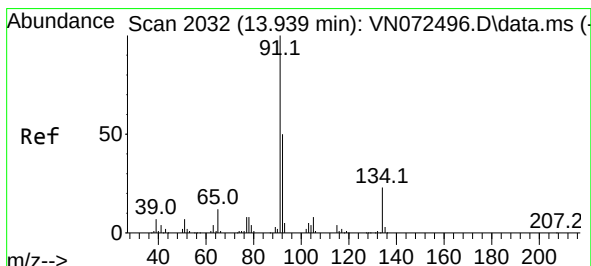
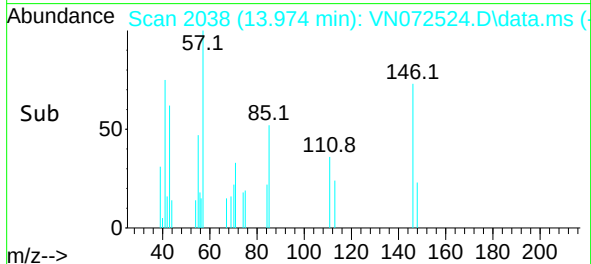
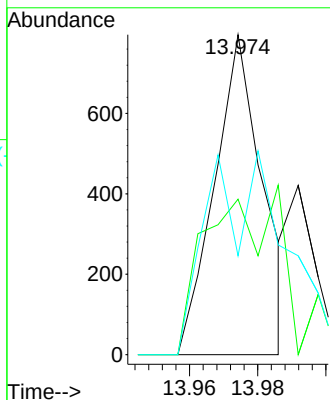
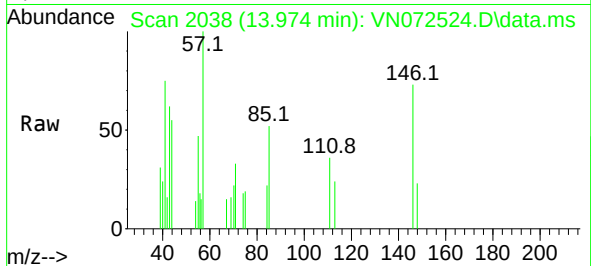




#84
1,4-Dichlorobenzene
Concen: 0.223 ug/l
RT: 13.974 min Scan# 2038
Delta R.T. 0.282 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

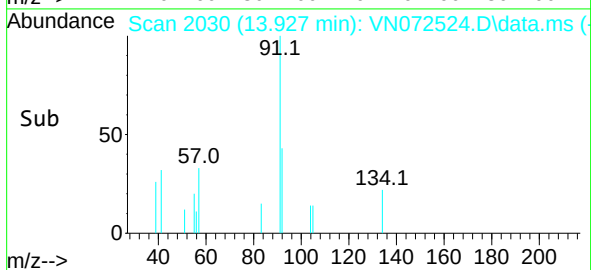
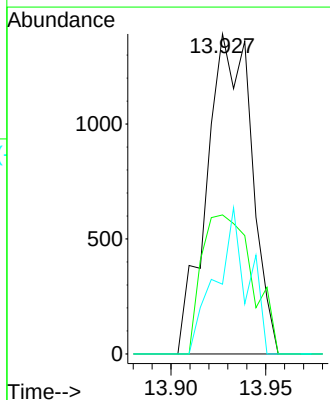
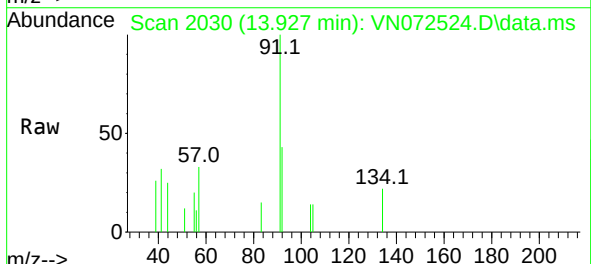
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

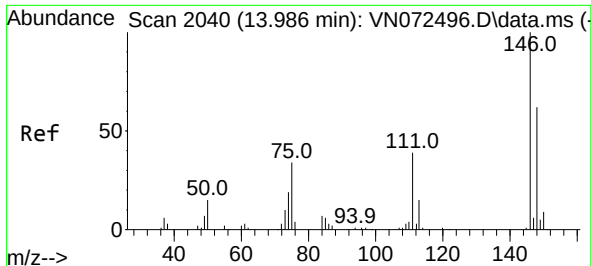
Tgt Ion:146 Resp: 784
Ion Ratio Lower Upper
146 100
111 56.6 19.5 58.5
148 45.4 31.1 93.5



#85
n-Butylbenzene
Concen: 0.427 ug/l
RT: 13.927 min Scan# 2030
Delta R.T. -0.012 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Tgt Ion: 91 Resp: 2294
Ion Ratio Lower Upper
91 100
92 48.9 0.0 100.6
134 32.5 0.0 50.2





#87

1,2-Dichlorobenzene

Concen: 0.222 ug/l

RT: 13.974 min Scan# 2040

Delta R.T. -0.012 min

Lab File: VN072524.D

Acq: 17 May 2022 00:36

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

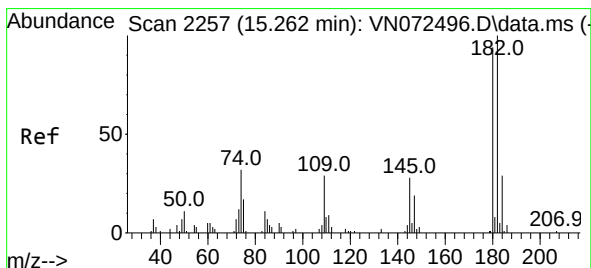
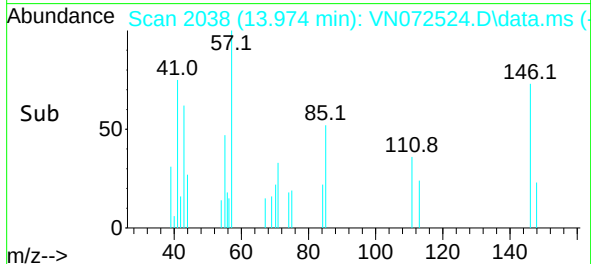
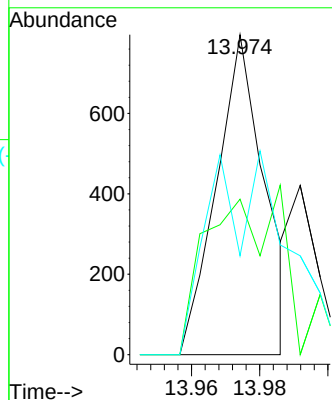
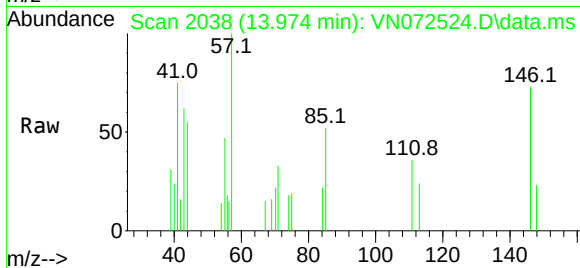
Tgt Ion:146 Resp: 784

Ion Ratio Lower Upper

146 100

111 56.6 21.4 64.2

148 45.4 32.5 97.4



#89

1,2,4-Trichlorobenzene

Concen: 0.723 ug/l

RT: 15.262 min Scan# 2257

Delta R.T. -0.000 min

Lab File: VN072524.D

Acq: 17 May 2022 00:36

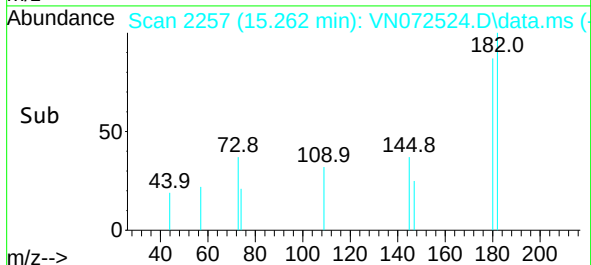
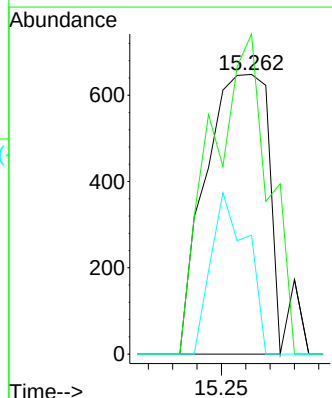
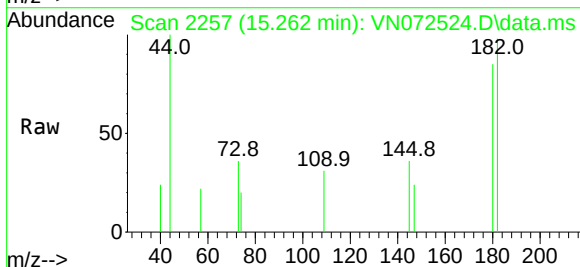
Tgt Ion:180 Resp: 1157

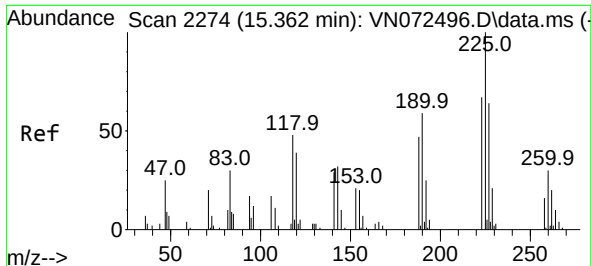
Ion Ratio Lower Upper

180 100

182 105.7 77.7 116.5

145 33.7 26.6 39.8

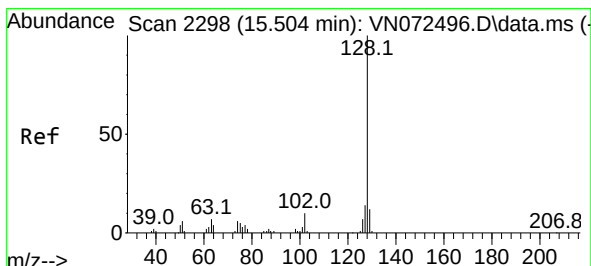
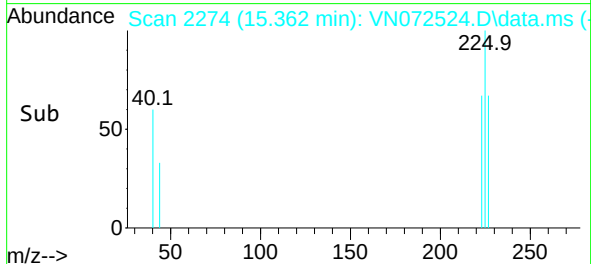
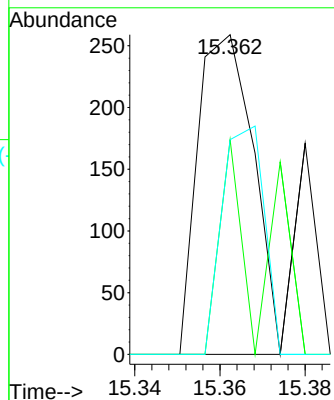
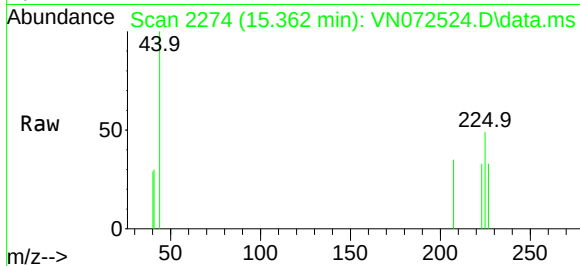




#90
Hexachlorobutadiene
Concen: 0.237 ug/l
RT: 15.362 min Scan# 2274
Delta R.T. 0.000 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

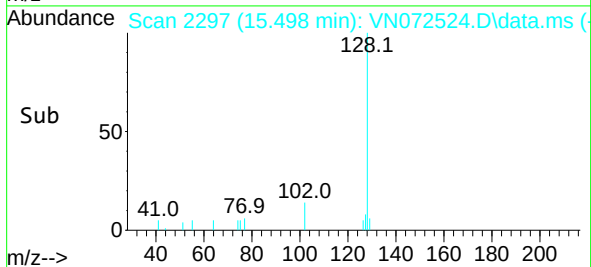
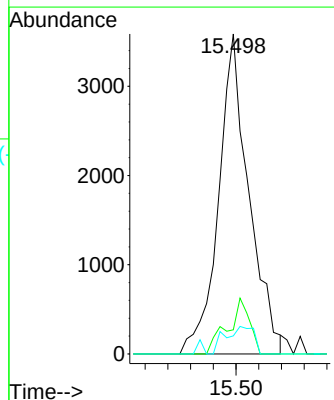
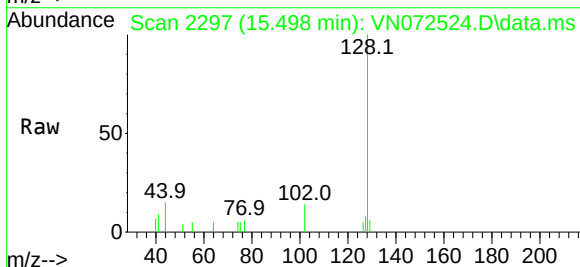
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

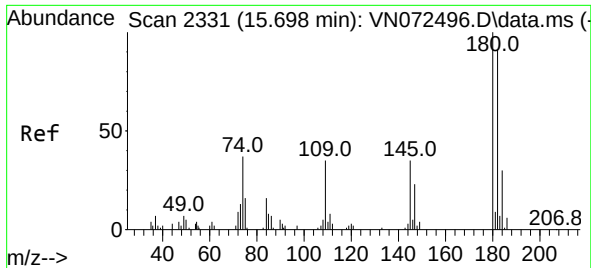
Tgt Ion:	225	Resp:	234
Ion	Ratio	Lower	Upper
225	100		
223	26.1	0.0	126.8
227	54.3	0.0	123.0



#91
Naphthalene
Concen: 8.740 ug/l
RT: 15.498 min Scan# 2297
Delta R.T. -0.006 min
Lab File: VN072524.D
Acq: 17 May 2022 00:36

Tgt Ion:	128	Resp:	6641
Ion	Ratio	Lower	Upper
128	100		
127	8.5	10.7	16.1#
129	5.8	9.0	13.6#





#92

1,2,3-Trichlorobenzene

Concen: 1.023 ug/l

RT: 15.686 min Scan# 21

Delta R.T. -0.012 min

Lab File: VN072524.D

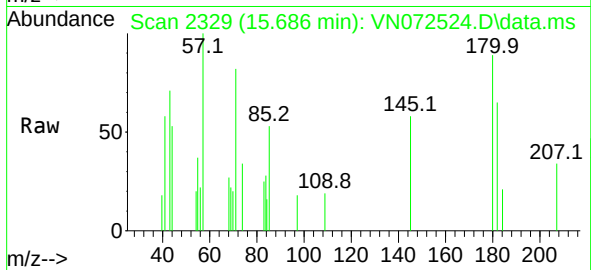
Acq: 17 May 2022 00:36

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW



Tgt Ion:180 Resp: 1667

Ion Ratio Lower Upper

180 100

182 82.1 0.0 190.0

145 28.4 0.0 67.8

