

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW123021\
 Data File : VW021702.D
 Acq On : 30 Dec 2021 10:19
 Operator : SY/VA
 Sample : M5233-10
 Misc : 5.00g/10.0mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 GBCC8

Quant Time: Dec 31 00:52:42 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM122821SMA.M
 Quant Title : SFAM01.0
 QLast Update : Fri Dec 31 00:51:50 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.842	114	84282	25.000	ug/L	# 0.00
28) Chlorobenzene-d5	11.634	117	85109	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.560	152	49191	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.349	65	43647	26.266	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 105.080%	
7) Chloroethane-d5	2.879	69	29814	26.638	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	= 106.560%	
11) 1,1-Dichloroethene-d2	4.013	63	48265	19.847	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	= 79.400%	
21) 2-Butanone-d5	7.080	46	12338	50.749	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	= 101.500%	
24) Chloroform-d	7.647	84	64161	24.370	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	= 97.480%	
26) 1,2-Dichloroethane-d4	8.305	65	33714	24.251	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	= 97.000%	
32) Benzene-d6	8.275	84	116923	23.137	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	= 92.560%	
36) 1,2-Dichloropropane-d6	9.274	67	32447	23.668	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	= 94.680%	
41) Toluene-d8	10.323	98	116775	23.192	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	= 92.760%	
43) trans-1,3-Dichloroprop...	10.579	79	15220	22.816	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	= 91.280%	
47) 2-Hexanone-d5	10.921	63	10317	49.622	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	= 99.240%	
56) 1,1,2,2-Tetrachloroeth...	12.695	84	28231	24.978	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	= 99.920%	
66) 1,2-Dichlorobenzene-d4	13.847	152	44108	23.448	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	= 93.800%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.007	85	5790	11.586	ug/L	96
5) Vinyl chloride	2.355	62	21244	11.159	ug/L	97
8) Chloroethane	2.910	64	15914	17.542	ug/L	99
12) 1,1-Dichloroethene	4.038	96	14869	11.917	ug/L #	73
13) Acetone	4.129	43	49253	238.600	ug/L	94
14) Carbon disulfide	4.379	76	61797	17.115	ug/L	99
16) Methylene chloride	4.909	84	39377	26.172	ug/L	78
17) trans-1,2-Dichloroethene	5.422	96	32660	24.778	ug/L	80
19) 1,1-Dichloroethane	6.220	63	21965	10.681	ug/L	98
20) cis-1,2-Dichloroethene	7.171	96	42598	31.134	ug/L	69
23) Bromochloromethane	7.519	128	26018	39.339	ug/L #	61
25) Chloroform	7.677	83	28380	11.964	ug/L	99
30) 1,1,1-Trichloroethane	7.872	97	88711	39.505	ug/L	95
31) Carbon tetrachloride	8.067	117	32613	14.935	ug/L	99
34) Trichloroethene	9.085	95	43712	29.652	ug/L	94
37) 1,2-Dichloropropane	9.366	63	21964	19.085	ug/L #	94
38) Bromodichloromethane	9.646	83	23267	13.246	ug/L	98
39) cis-1,3-Dichloropropene	10.073	75	21108	11.226	ug/L	97
40) 4-Methyl-2-pentanone	10.207	43	27879	43.975	ug/L #	90

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

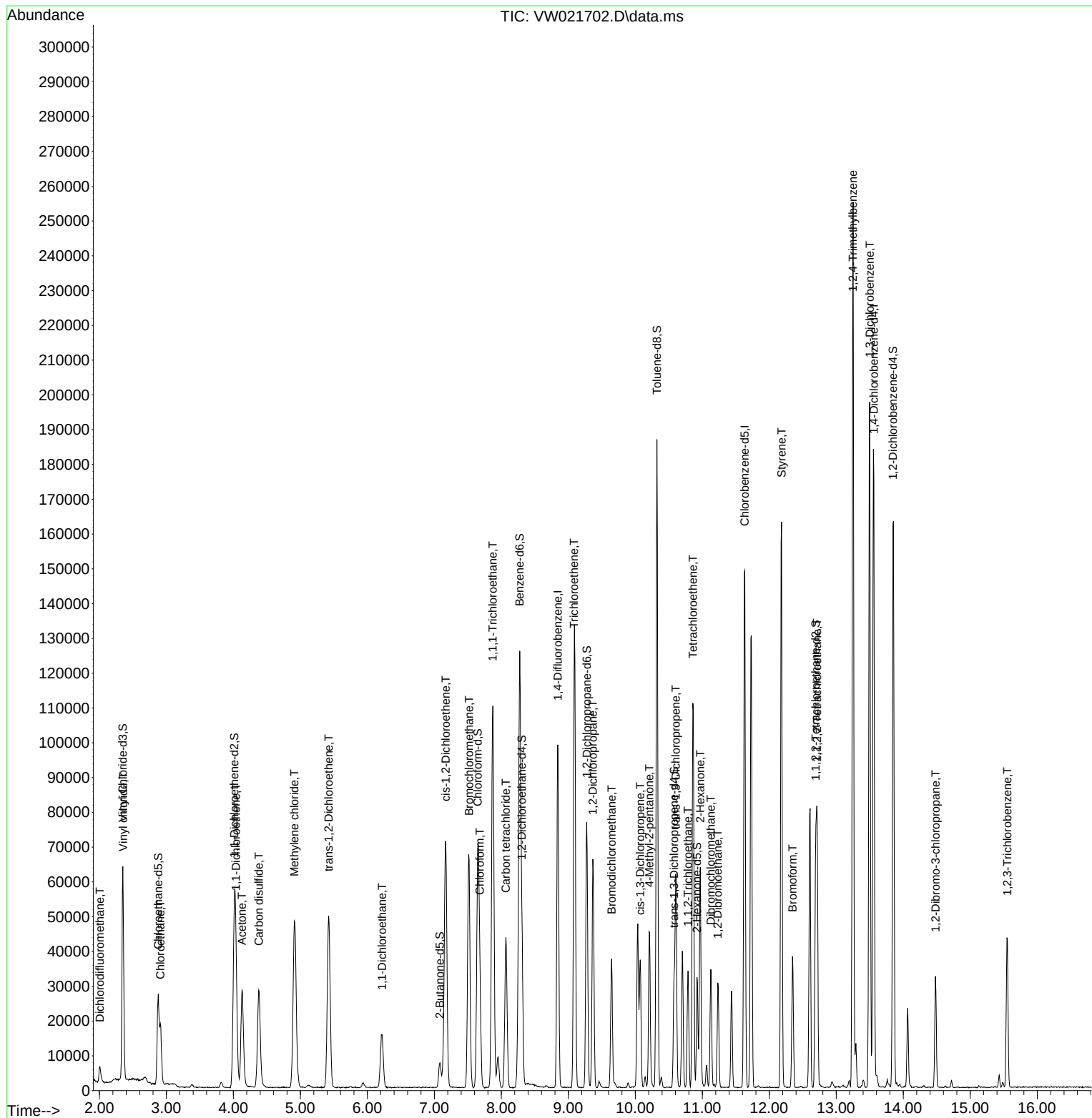
44) trans-1,3-Dichloropropene	10.604	75	31014	18.357	ug/L	97
45) 1,1,2-Trichloroethane	10.786	97	10322	10.798	ug/L	96
46) Tetrachloroethene	10.860	164	25662	18.589	ug/L	96
48) 2-Hexanone	10.969	43	37594	87.318	ug/L #	93
49) Dibromochloromethane	11.128	129	17073	13.293	ug/L	98
50) 1,2-Dibromoethane	11.231	107	19354	20.159	ug/L #	99
55) Styrene	12.182	104	78587	17.906	ug/L	88
57) 1,1,2,2-Tetrachloroethane	12.713	83	32487	30.724	ug/L #	98
59) Bromoform	12.347	173	16743	23.322	ug/L	97
63) 1,2,4-Trimethylbenzene	13.249	105	133045	23.104	ug/L	96
64) 1,3-Dichlorobenzene	13.499	146	82493	25.480	ug/L	94
68) 1,2-Dibromo-3-chloropr...	14.481	75	7231	43.627	ug/L #	65
72) 1,2,3-Trichlorobenzene	15.554	180	15810	9.893	ug/L	97

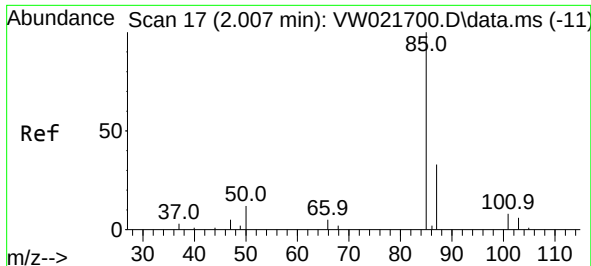
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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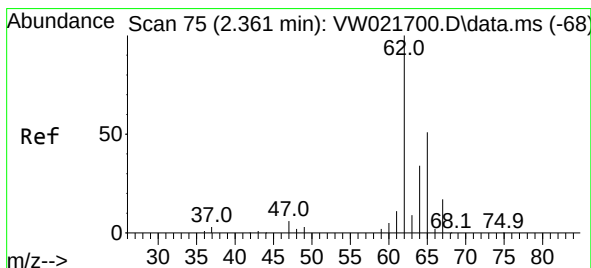
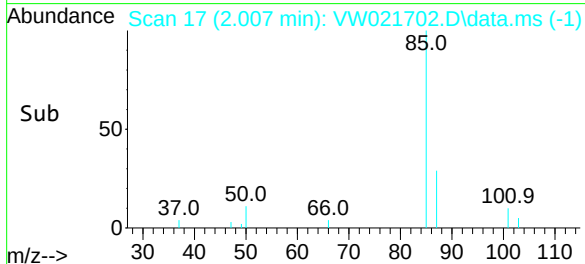
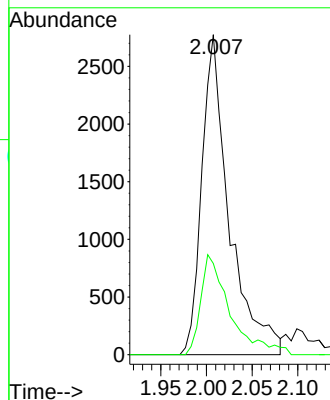
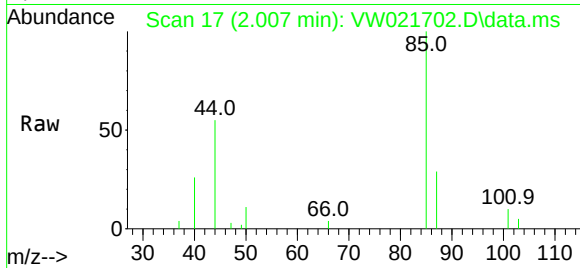




#2
Dichlorodifluoromethane
Concen: 11.586 ug/L
RT: 2.007 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

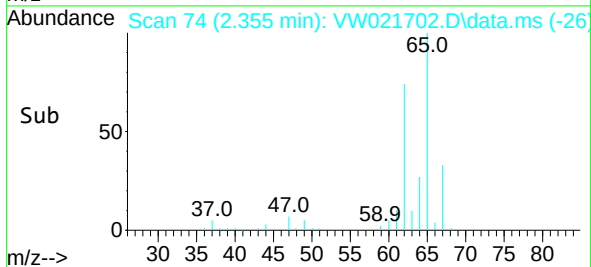
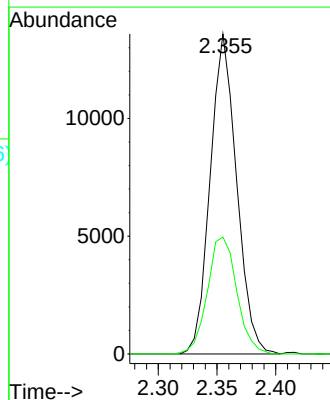
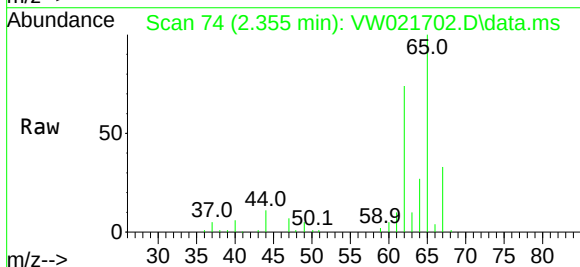
Instrument :
MSVOA_W
ClientSampleId :
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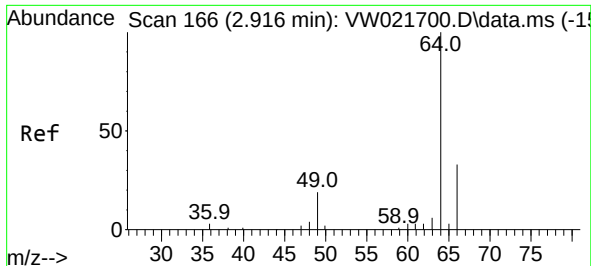
Tgt Ion: 85 Resp: 5790
Ion Ratio Lower Upper
85 100
87 30.0 25.8 38.6



#5
Vinyl chloride
Concen: 11.159 ug/L
RT: 2.355 min Scan# 74
Delta R.T. -0.006 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

Tgt Ion: 62 Resp: 21244
Ion Ratio Lower Upper
62 100
64 36.5 24.4 45.2

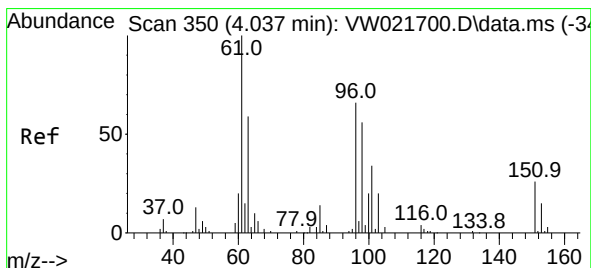
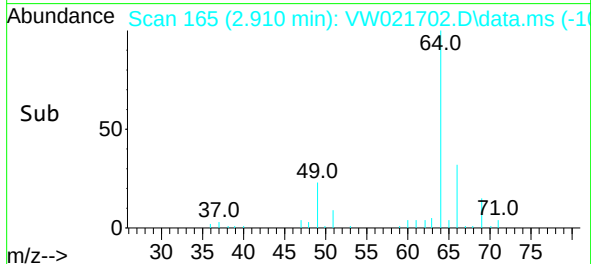
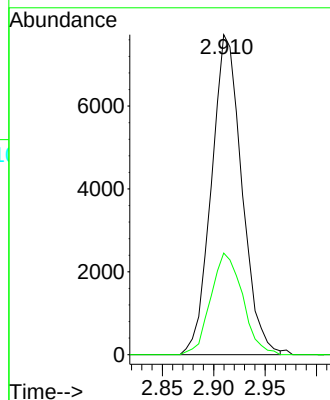
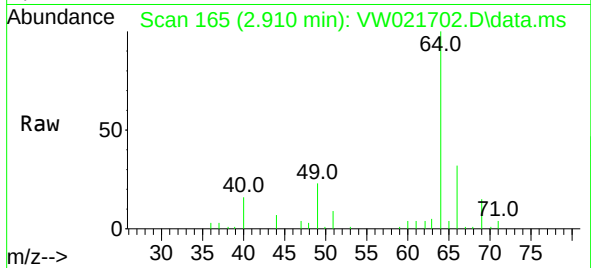




#8
Chloroethane
Concen: 17.542 ug/L
RT: 2.910 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

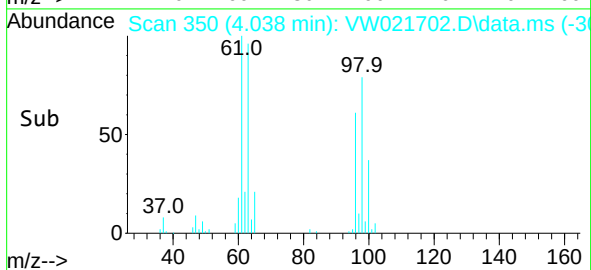
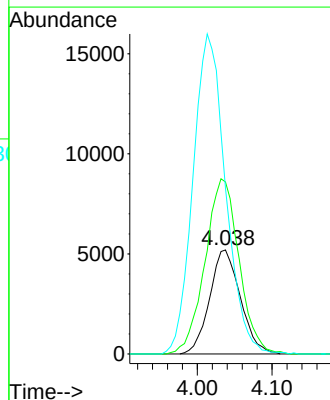
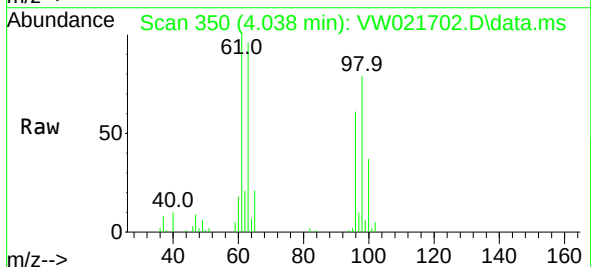
Instrument :
MSVOA_W
ClientSampleId :
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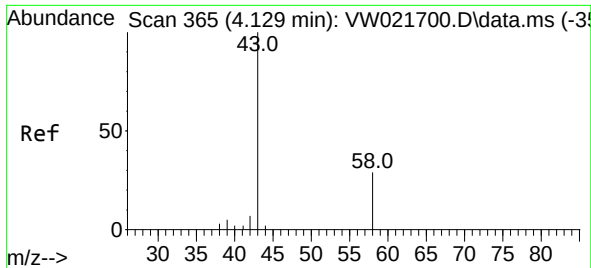
Tgt Ion: 64 Resp: 15914
Ion Ratio Lower Upper
64 100
66 31.8 22.0 40.8



#12
1,1-Dichloroethene
Concen: 11.917 ug/L
RT: 4.038 min Scan# 350
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

Tgt Ion: 96 Resp: 14869
Ion Ratio Lower Upper
96 100
61 165.3 138.3 256.9
63 159.2 82.6 153.4#

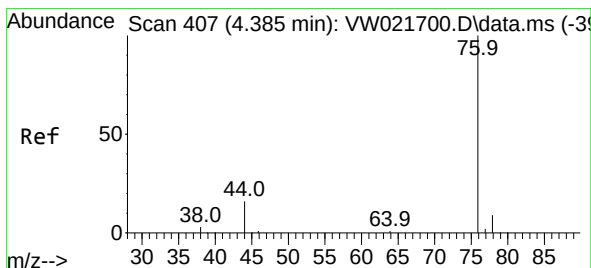
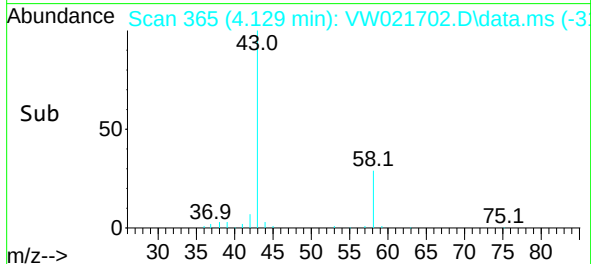
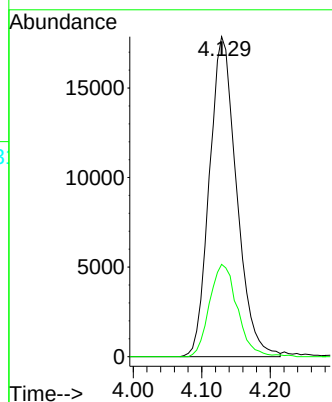
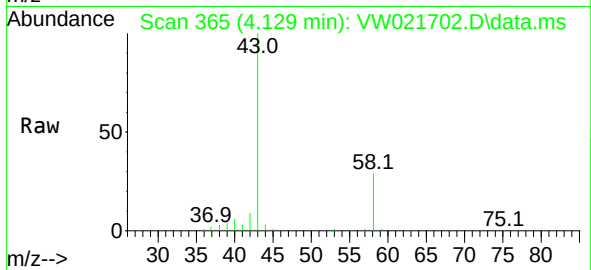




#13
Acetone
Concen: 238.600 ug/L
RT: 4.129 min Scan# 30
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

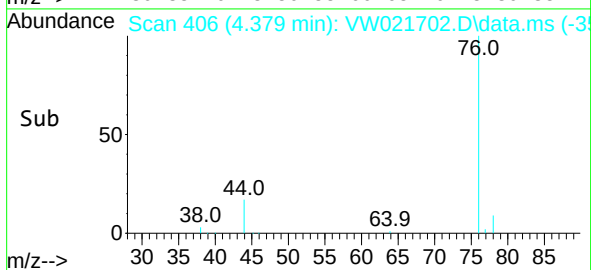
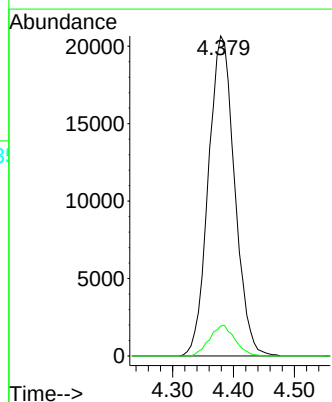
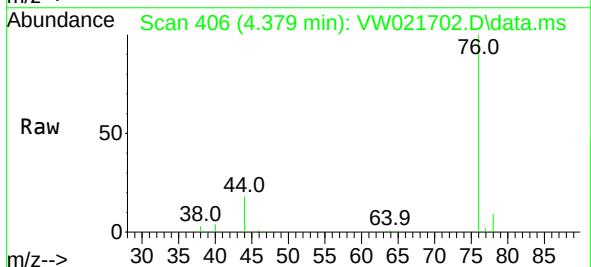
Instrument :
MSVOA_W
ClientSampleId :
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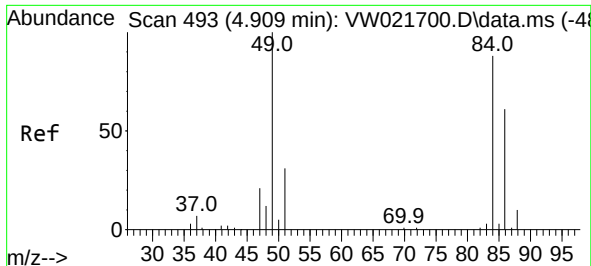
Tgt Ion: 43 Resp: 49253
Ion Ratio Lower Upper
43 100
58 29.3 0.0 52.8



#14
Carbon disulfide
Concen: 17.115 ug/L
RT: 4.379 min Scan# 406
Delta R.T. -0.006 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

Tgt Ion: 76 Resp: 61797
Ion Ratio Lower Upper
76 100
78 9.3 7.1 10.7

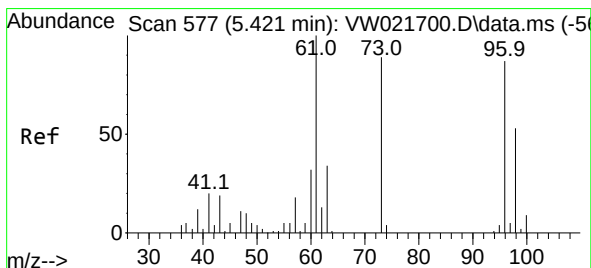
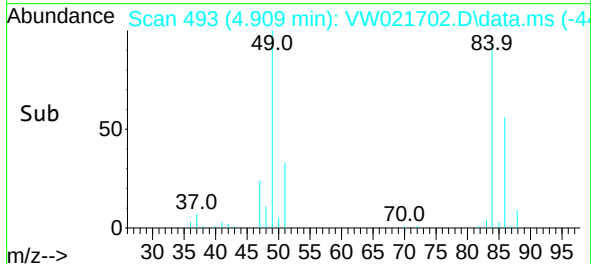
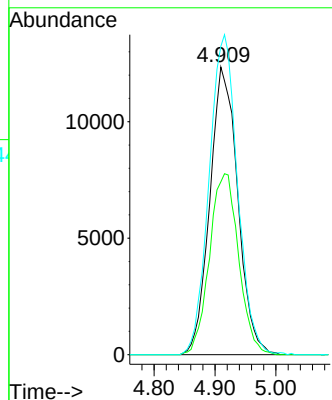
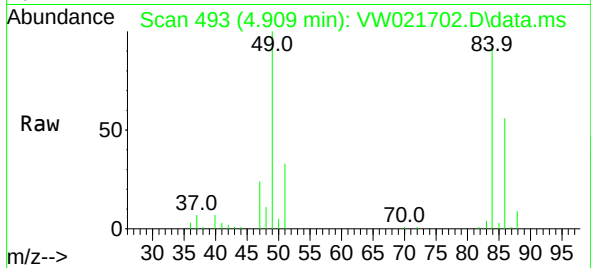




#16
Methylene chloride
Concen: 26.172 ug/L
RT: 4.909 min Scan# 493
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

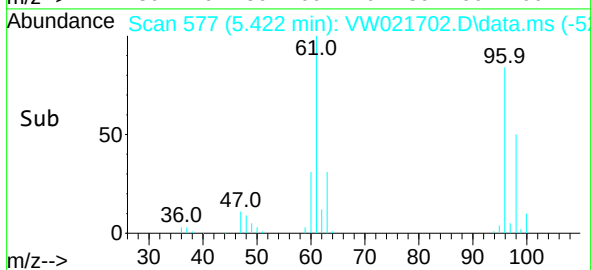
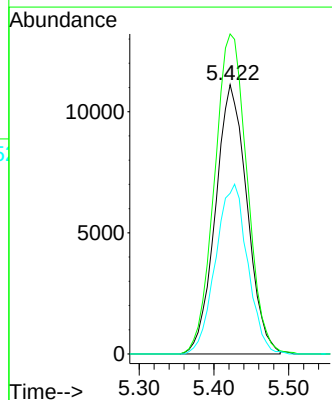
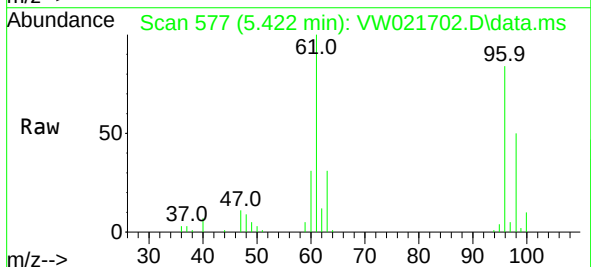
Instrument :
MSVOA_W
ClientSampleId :
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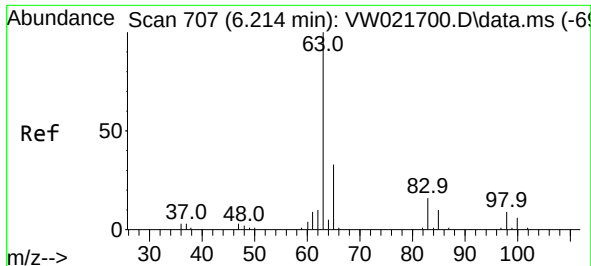
Tgt Ion: 84 Resp: 39377
Ion Ratio Lower Upper
84 100
86 60.0 45.5 84.5
49 107.1 100.5 186.7



#17
trans-1,2-Dichloroethene
Concen: 24.778 ug/L
RT: 5.422 min Scan# 577
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

Tgt Ion: 96 Resp: 32660
Ion Ratio Lower Upper
96 100
61 118.9 107.4 199.4
98 59.7 41.2 76.6





#19

1,1-Dichloroethane

Concen: 10.681 ug/L

RT: 6.220 min Scan# 707

Delta R.T. 0.006 min

Lab File: VW021702.D

Acq: 30 Dec 2021 10:19

Instrument :

MSVOA_W

ClientSampleId :

GBCC8

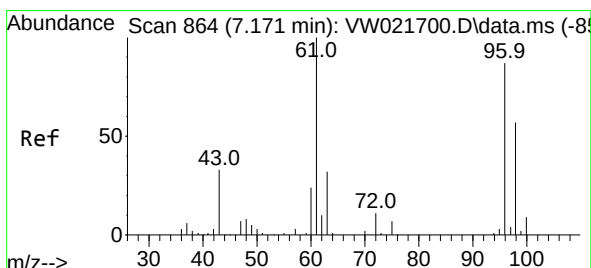
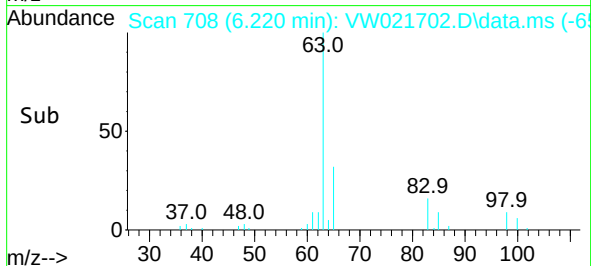
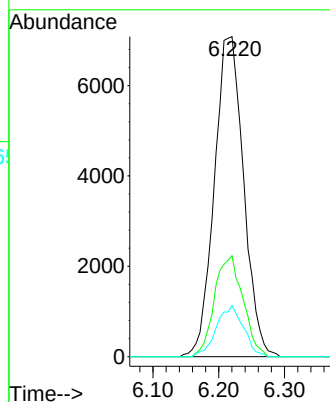
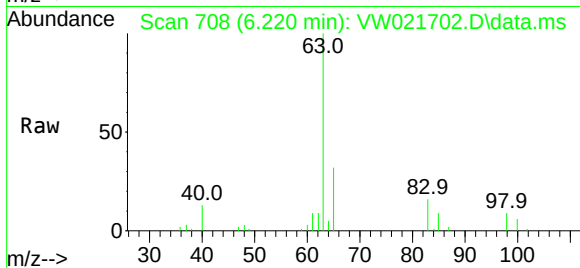
Tgt Ion: 63 Resp: 21965

Ion Ratio Lower Upper

63 100

65 31.6 22.1 41.1

83 16.0 9.2 17.2



#20

cis-1,2-Dichloroethene

Concen: 31.134 ug/L

RT: 7.171 min Scan# 864

Delta R.T. 0.000 min

Lab File: VW021702.D

Acq: 30 Dec 2021 10:19

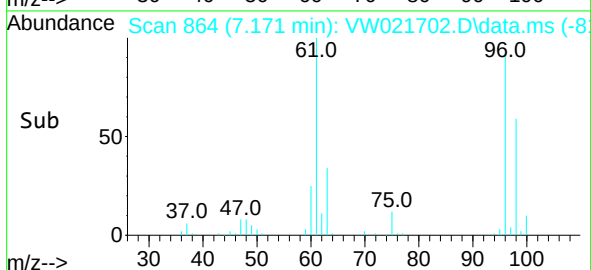
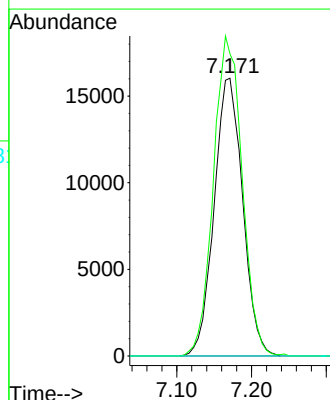
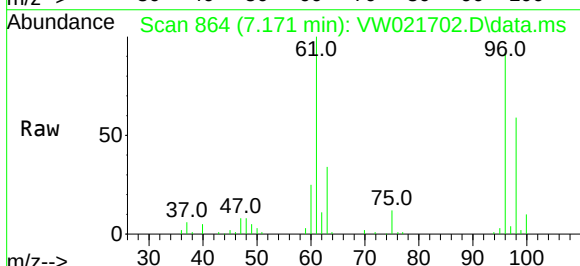
Tgt Ion: 96 Resp: 42598

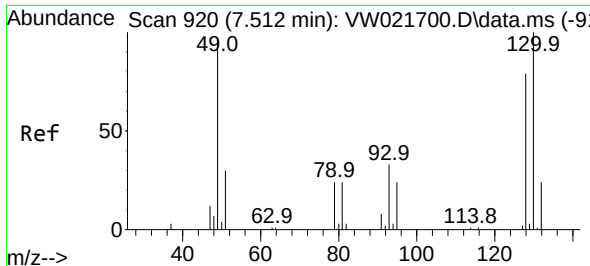
Ion Ratio Lower Upper

96 100

61 108.8 103.7 192.7

68 0.0 0.0 0.0

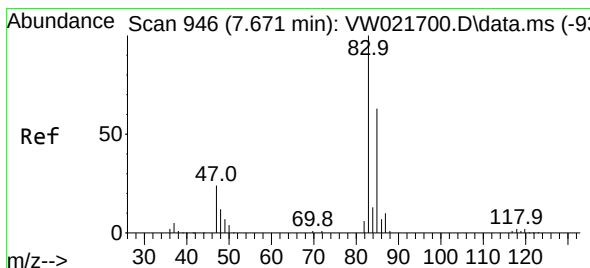
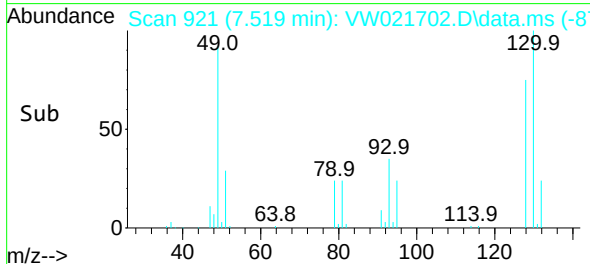
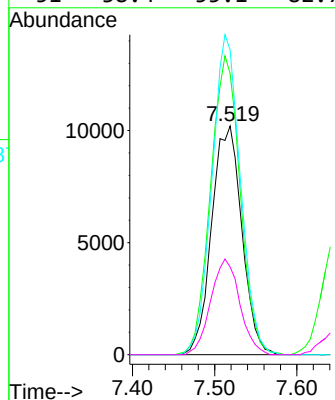
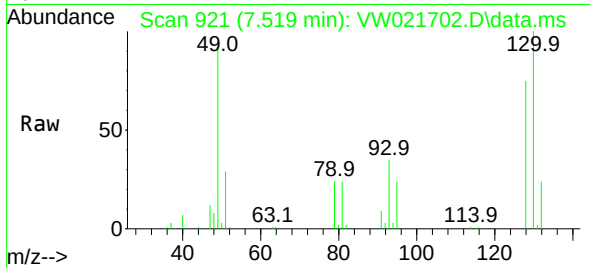




#23
Bromochloromethane
Concen: 39.339 ug/L
RT: 7.519 min Scan# 91
Delta R.T. 0.006 min
Lab File: VW021702.D
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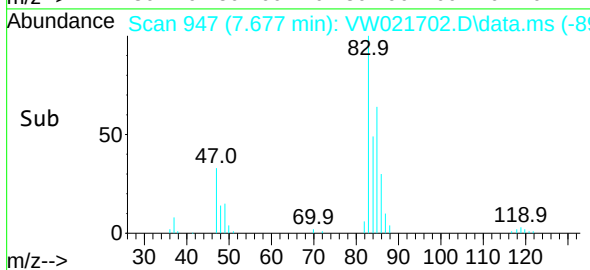
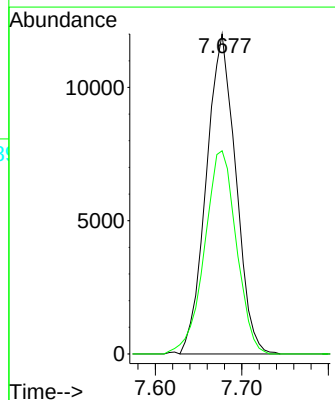
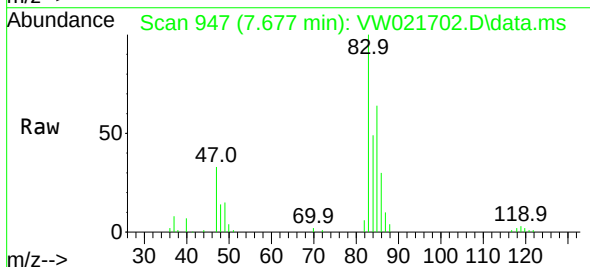
Instrument :
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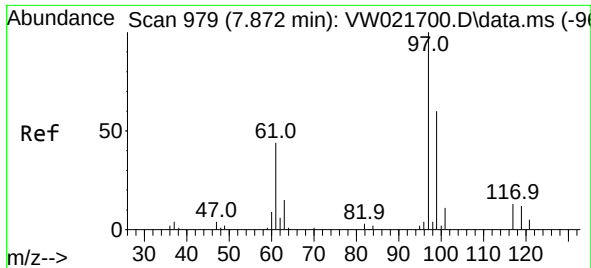
Tgt Ion:128 Resp: 26018
Ion Ratio Lower Upper
128 100
49 123.0 150.3 279.1#
130 133.3 88.3 163.9
51 38.4 55.1 82.7#



#25
Chloroform
Concen: 11.964 ug/L
RT: 7.677 min Scan# 947
Delta R.T. 0.006 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

Tgt Ion: 83 Resp: 28380
Ion Ratio Lower Upper
83 100
85 63.5 45.1 83.7

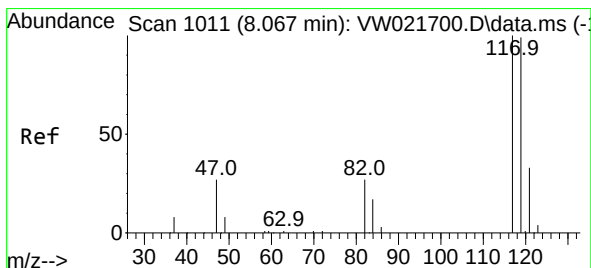
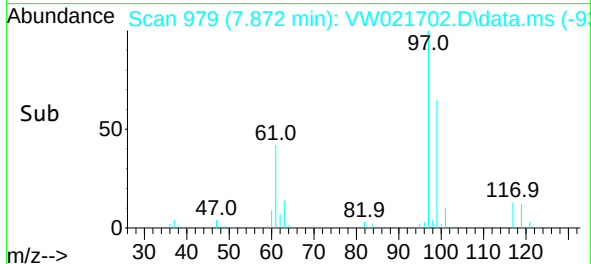
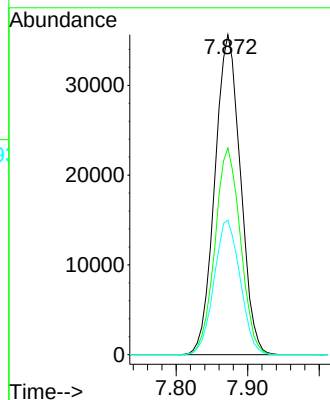
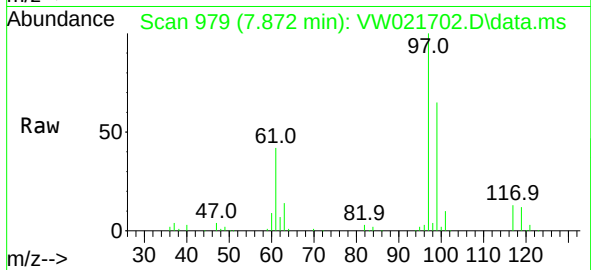




#30
1,1,1-Trichloroethane
Concen: 39.505 ug/L
RT: 7.872 min Scan# 91
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

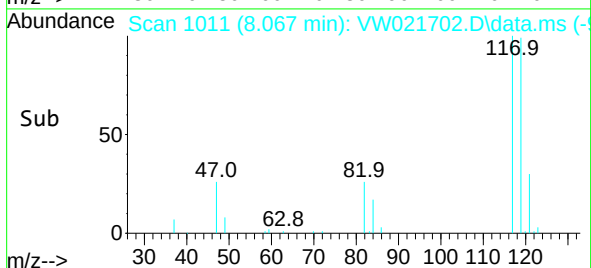
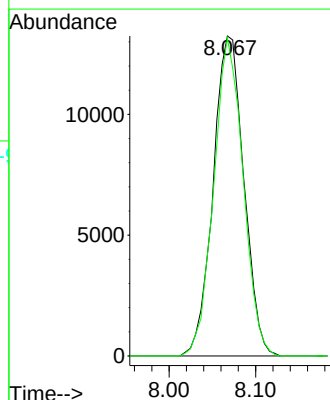
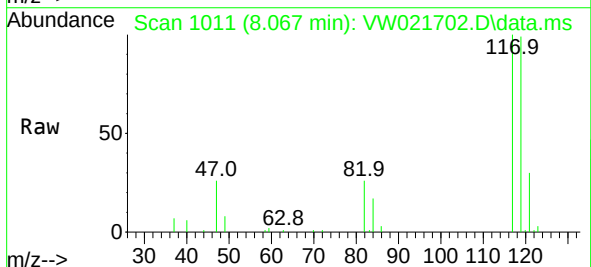
Instrument :
MSVOA_W
ClientSampleId :
GBCC8

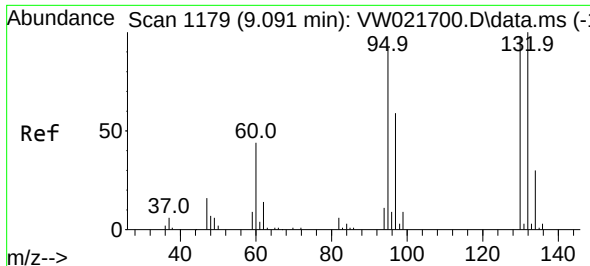
Tgt Ion: 97 Resp: 88711
Ion Ratio Lower Upper
97 100
99 64.3 51.6 77.4
61 42.9 40.9 61.3



#31
Carbon tetrachloride
Concen: 14.935 ug/L
RT: 8.067 min Scan# 1011
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

Tgt Ion: 117 Resp: 32613
Ion Ratio Lower Upper
117 100
119 95.1 75.7 113.5

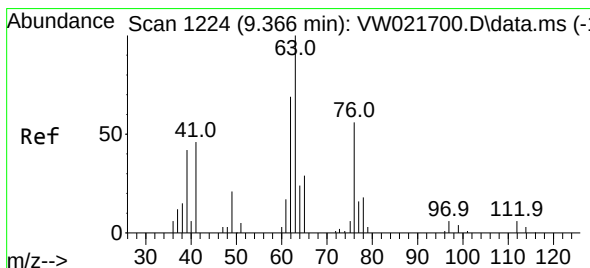
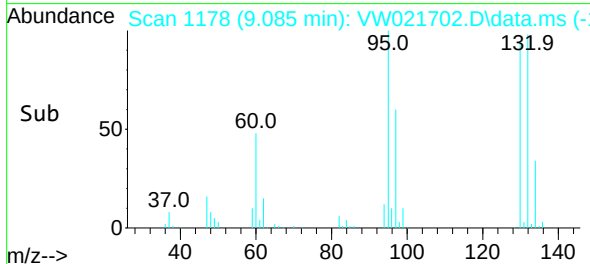
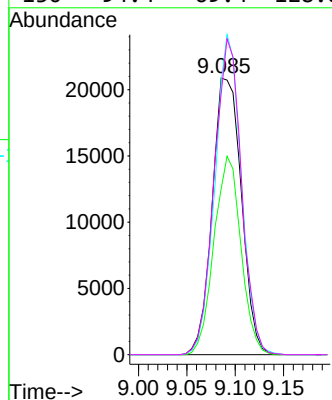
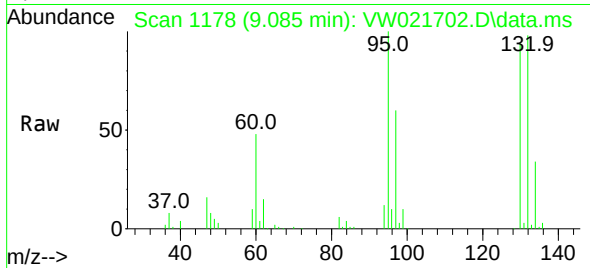




#34
Trichloroethene
Concen: 29.652 ug/L
RT: 9.085 min Scan# 1178
Delta R.T. -0.006 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

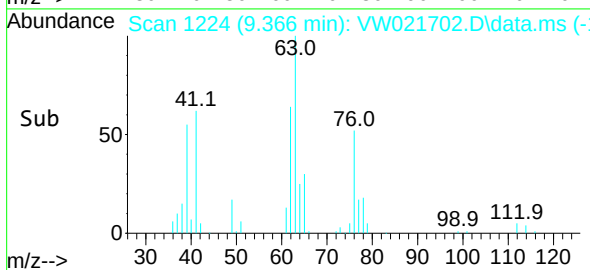
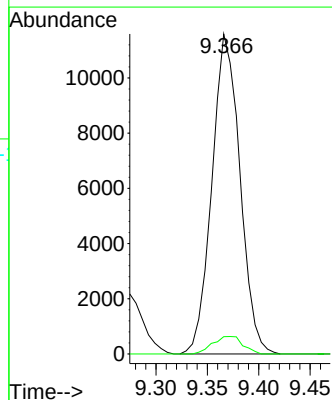
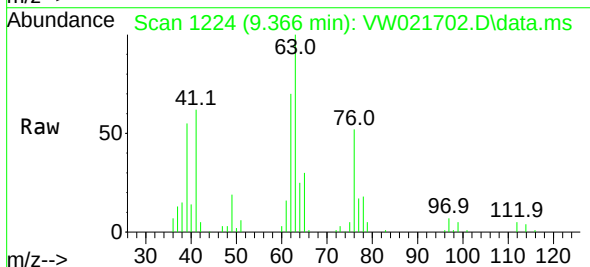
Instrument :
MSVOA_W
ClientSampleId :
GBCC8

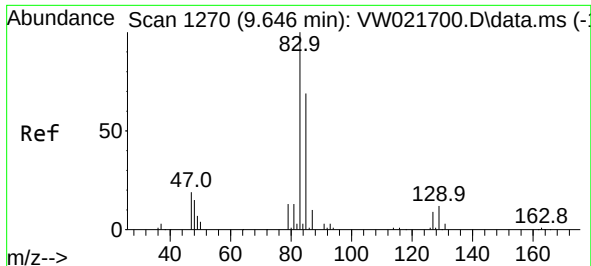
Tgt Ion: 95 Resp: 43712
Ion Ratio Lower Upper
95 100
97 59.9 47.0 87.2
132 98.4 65.5 121.6
130 94.4 69.4 128.8



#37
1,2-Dichloropropane
Concen: 19.085 ug/L
RT: 9.366 min Scan# 1224
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

Tgt Ion: 63 Resp: 21964
Ion Ratio Lower Upper
63 100
112 5.9 3.2 4.8#

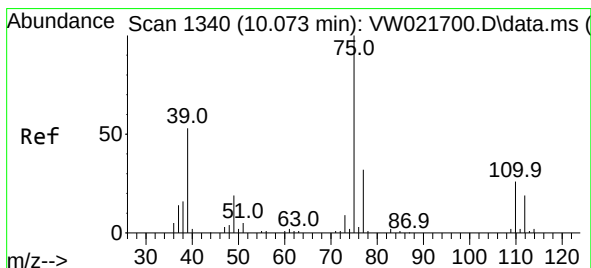
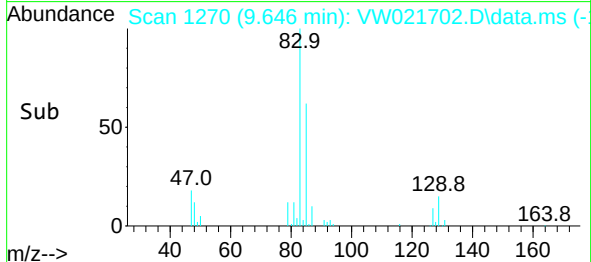
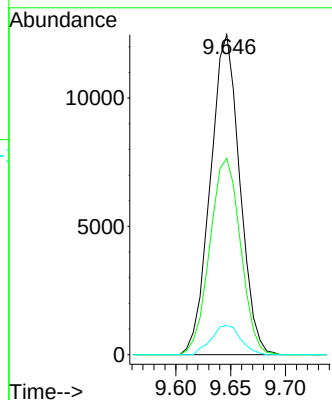
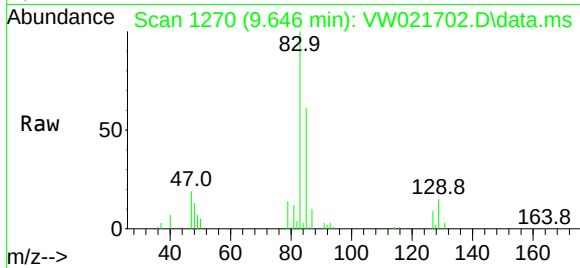




#38
Bromodichloromethane
Concen: 13.246 ug/L
RT: 9.646 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

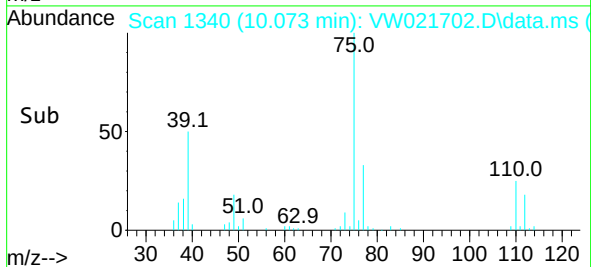
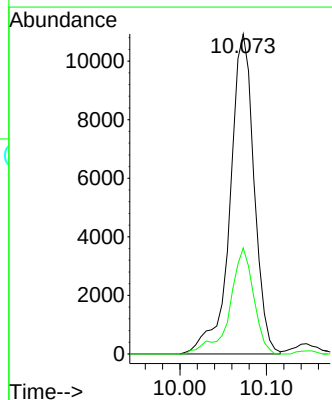
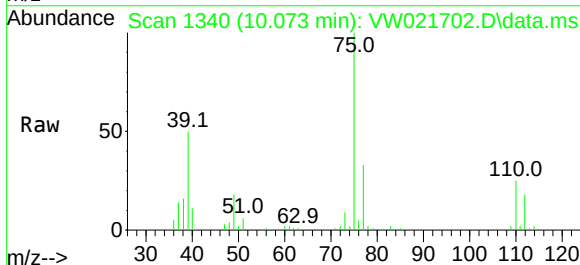
Instrument :
MSVOA_W
ClientSampleId :
GBCC8

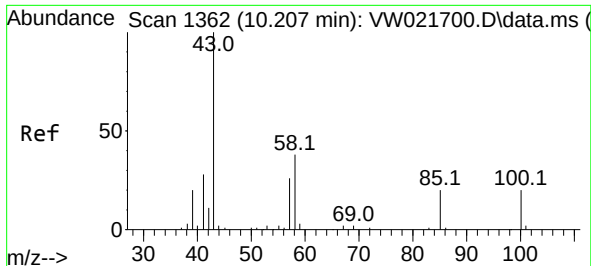
Tgt Ion: 83 Resp: 23267
Ion Ratio Lower Upper
83 100
85 61.4 44.1 81.9
127 9.1 6.1 9.1



#39
cis-1,3-Dichloropropene
Concen: 11.226 ug/L
RT: 10.073 min Scan# 1340
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

Tgt Ion: 75 Resp: 21108
Ion Ratio Lower Upper
75 100
77 33.1 21.8 40.6





#40

4-Methyl-2-pentanone

Concen: 43.975 ug/L

RT: 10.207 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW021702.D

Acq: 30 Dec 2021 10:19

Instrument :

MSVOA_W

ClientSampleId :

GBCC8

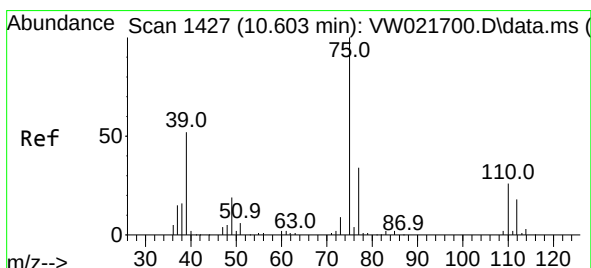
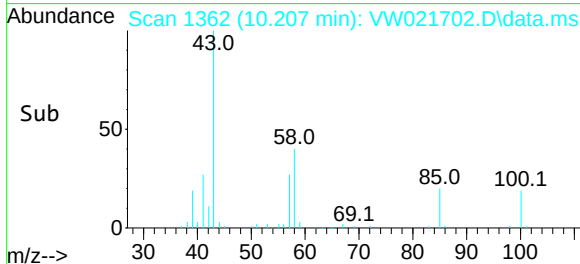
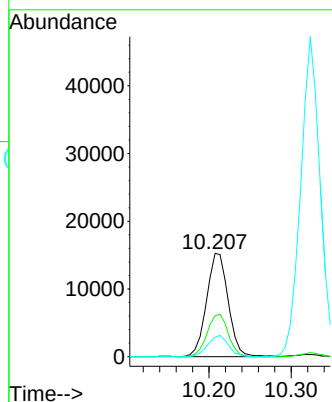
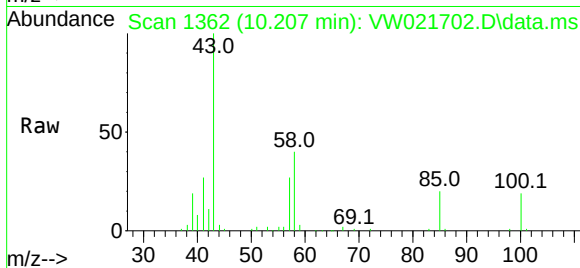
Tgt Ion: 43 Resp: 27879

Ion Ratio Lower Upper

43 100

58 40.1 28.8 43.2

100 19.5 10.0 15.0#



#44

trans-1,3-Dichloropropene

Concen: 18.357 ug/L

RT: 10.604 min Scan# 1427

Delta R.T. 0.000 min

Lab File: VW021702.D

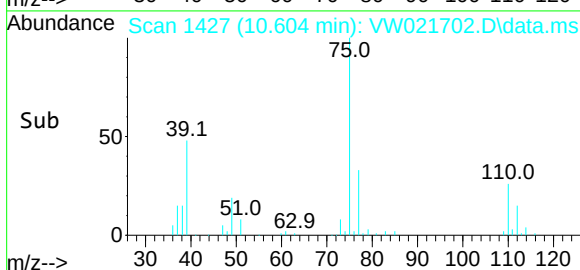
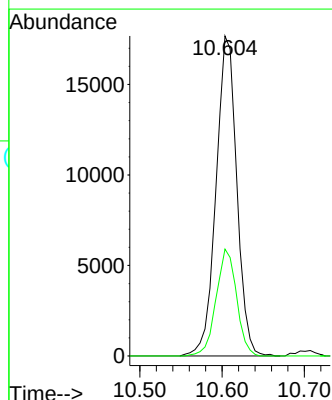
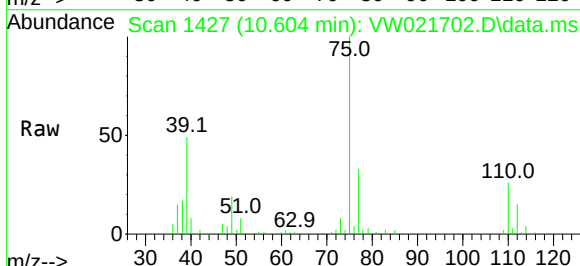
Acq: 30 Dec 2021 10:19

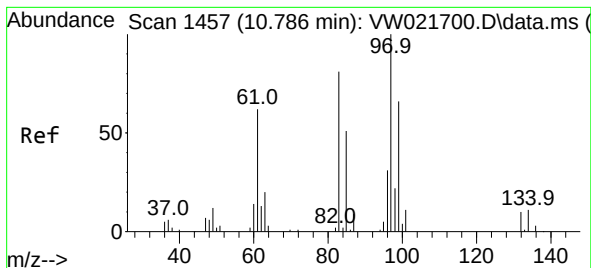
Tgt Ion: 75 Resp: 31014

Ion Ratio Lower Upper

75 100

77 33.4 22.2 41.2

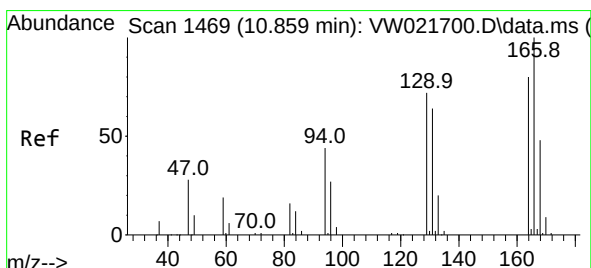
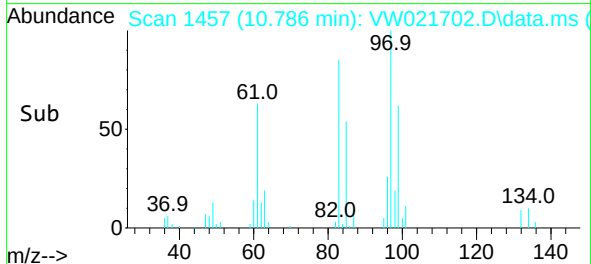
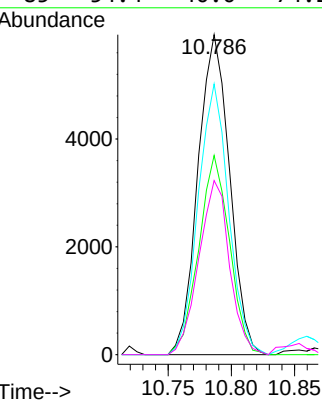
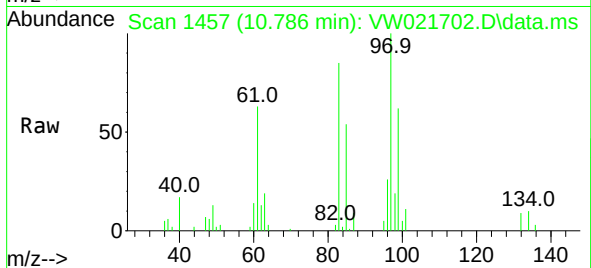




#45
1,1,2-Trichloroethane
Concen: 10.798 ug/L
RT: 10.786 min Scan# 1457
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

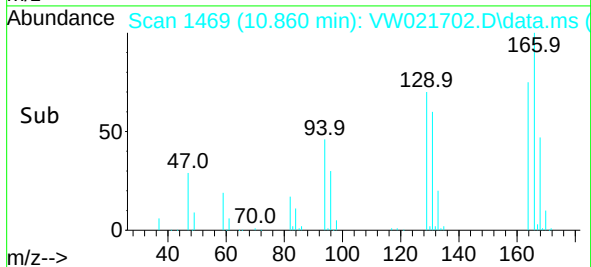
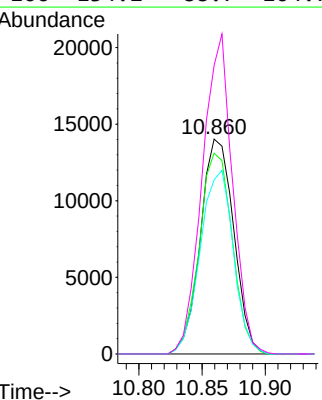
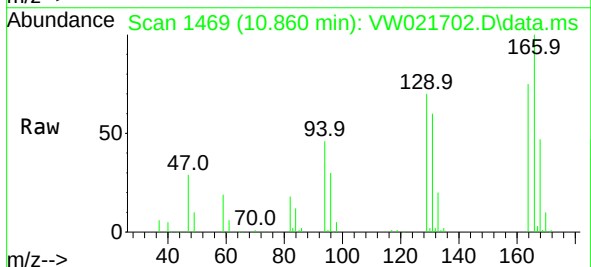
Instrument :
MSVOA_W
ClientSampleId :
GBCC8

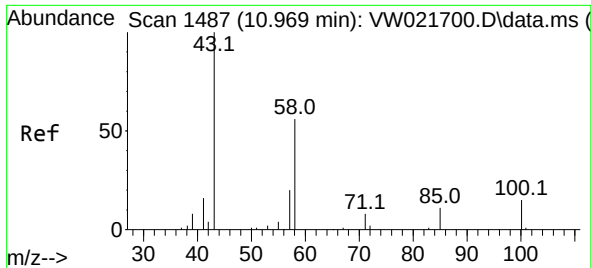
Tgt Ion:	97	Resp:	10322
Ion	Ratio	Lower	Upper
97	100		
99	62.2	43.0	79.8
83	84.6	62.6	116.3
85	54.4	40.0	74.2



#46
Tetrachloroethene
Concen: 18.589 ug/L
RT: 10.860 min Scan# 1469
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

Tgt Ion:	164	Resp:	25662
Ion	Ratio	Lower	Upper
164	100		
129	93.4	65.5	121.7
131	81.0	59.7	110.9
166	134.2	88.7	164.7

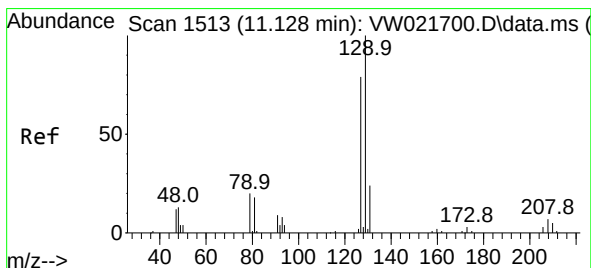
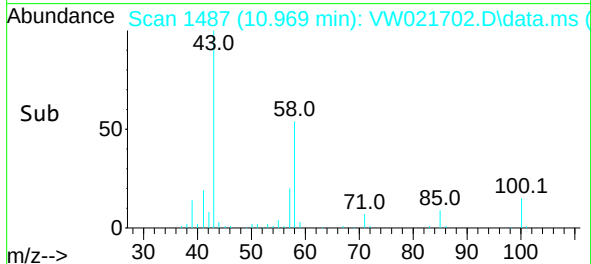
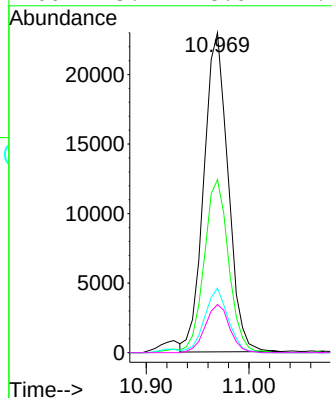
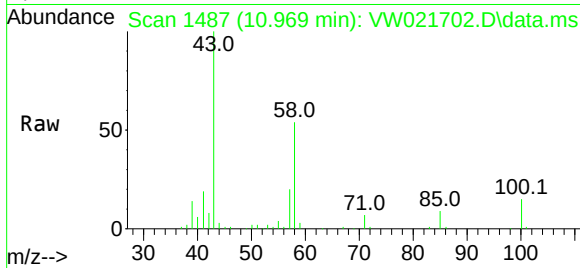




#48
2-Hexanone
Concen: 87.318 ug/L
RT: 10.969 min Scan# 1487
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

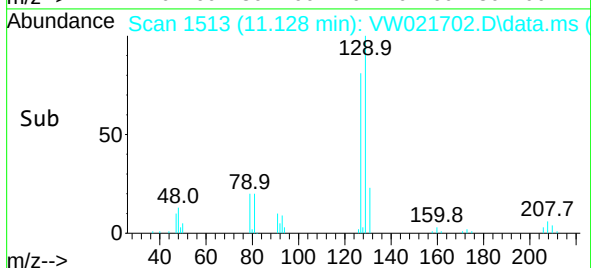
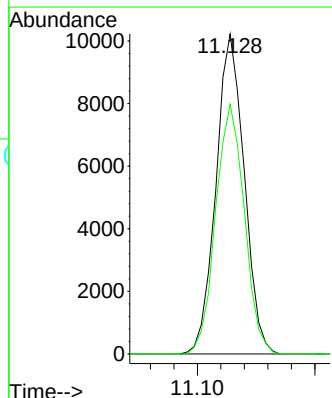
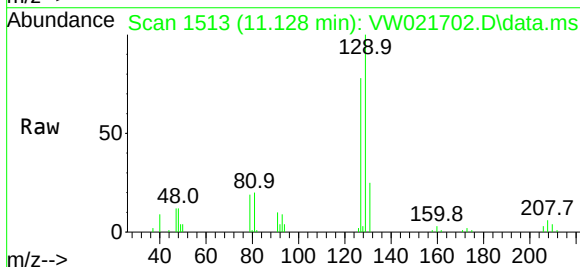
Instrument :
MSVOA_W
ClientSampleId :
GBCC8

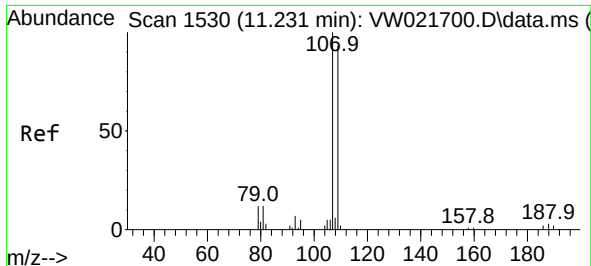
Tgt Ion: 43	Resp:	37594
Ion	Ratio	Lower Upper
43	100	
58	54.5	40.2 60.2
57	19.7	14.3 21.5
100	15.1	8.0 12.0



#49
Dibromochloromethane
Concen: 13.293 ug/L
RT: 11.128 min Scan# 1513
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

Tgt Ion: 129	Resp:	17073
Ion	Ratio	Lower Upper
129	100	
127	78.0	55.7 103.5





#50

1,2-Dibromoethane

Concen: 20.159 ug/L

RT: 11.231 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW021702.D

Acq: 30 Dec 2021 10:19

Instrument :

MSVOA_W

ClientSampleId :

GBCC8

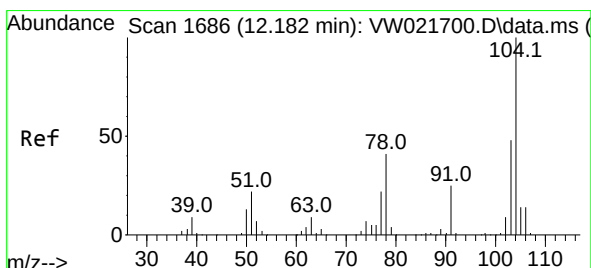
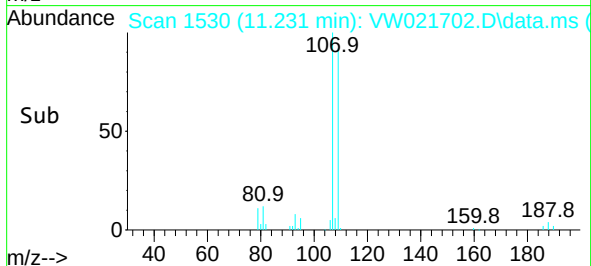
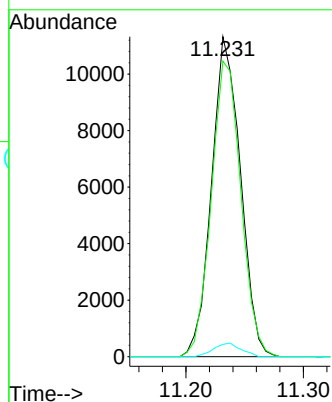
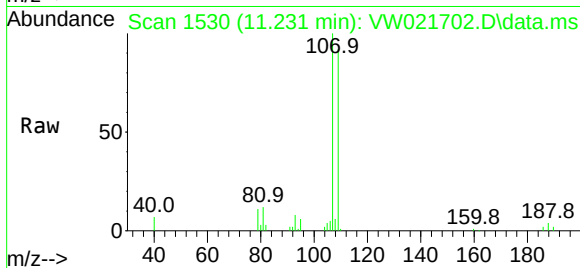
Tgt Ion:107 Resp: 19354

Ion Ratio Lower Upper

107 100

109 92.4 64.1 119.1

188 3.9 2.6 3.8#



#55

Styrene

Concen: 17.906 ug/L

RT: 12.182 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VW021702.D

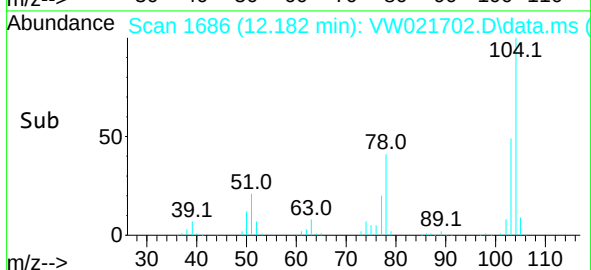
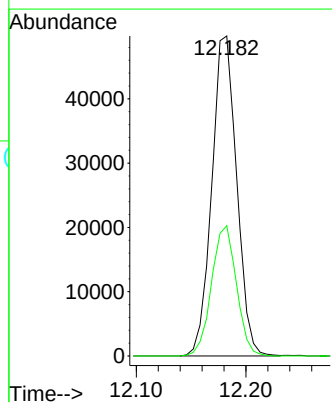
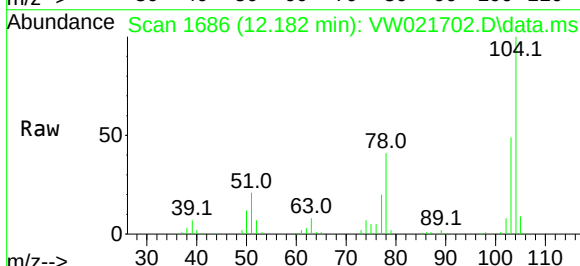
Acq: 30 Dec 2021 10:19

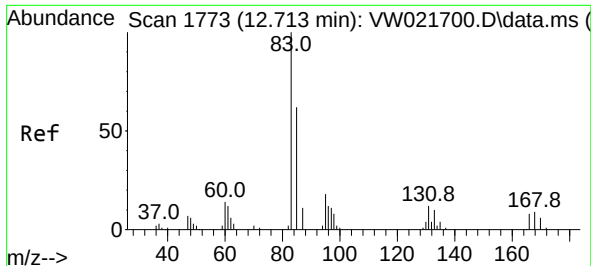
Tgt Ion:104 Resp: 78587

Ion Ratio Lower Upper

104 100

78 40.7 34.4 64.0





#57

1,1,2,2-Tetrachloroethane

Concen: 30.724 ug/L

RT: 12.713 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW021702.D

Acq: 30 Dec 2021 10:19

Instrument :

MSVOA_W

ClientSampleId :

GBCC8

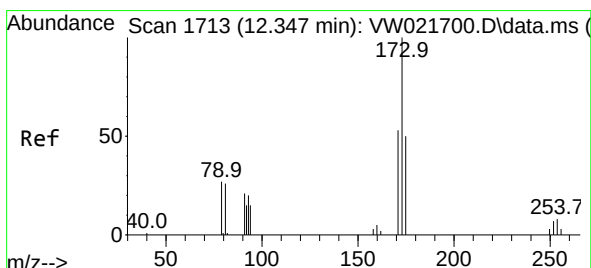
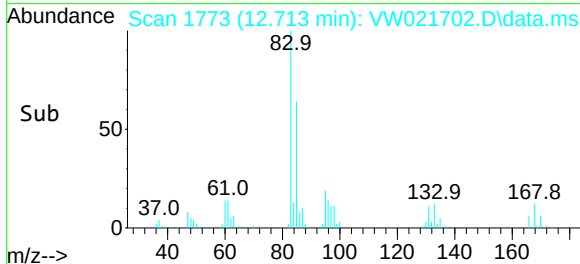
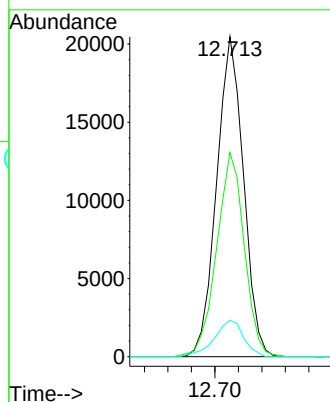
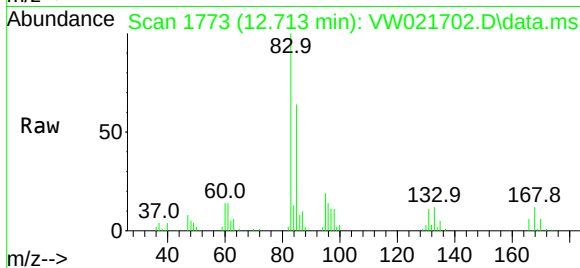
Tgt Ion: 83 Resp: 32487

Ion Ratio Lower Upper

83 100

85 63.8 44.0 81.6

131 11.4 6.9 10.3#



#59

Bromoform

Concen: 23.322 ug/L

RT: 12.347 min Scan# 1713

Delta R.T. 0.000 min

Lab File: VW021702.D

Acq: 30 Dec 2021 10:19

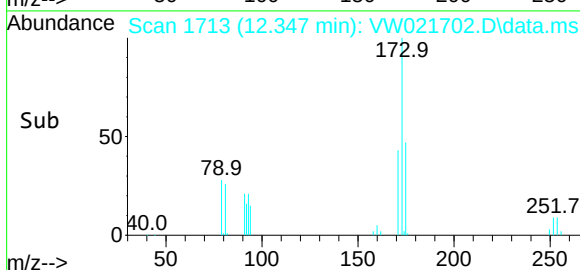
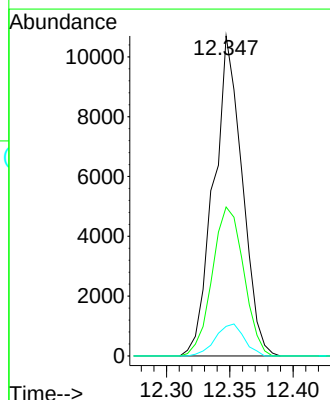
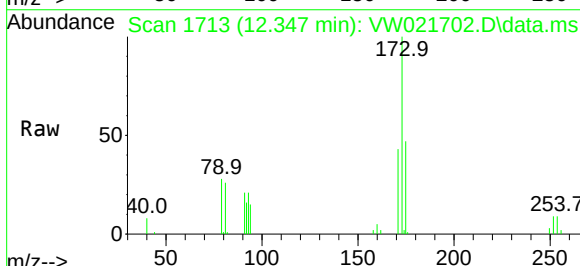
Tgt Ion: 173 Resp: 16743

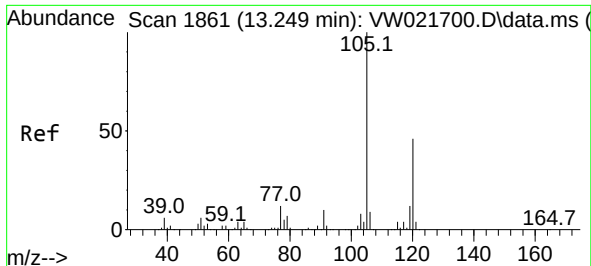
Ion Ratio Lower Upper

173 100

175 51.4 39.6 59.4

254 10.1 7.4 11.0

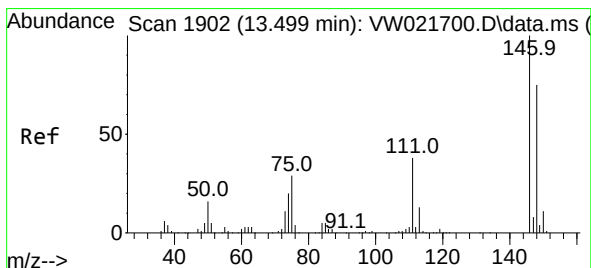
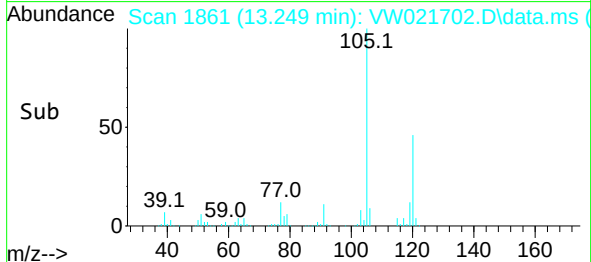
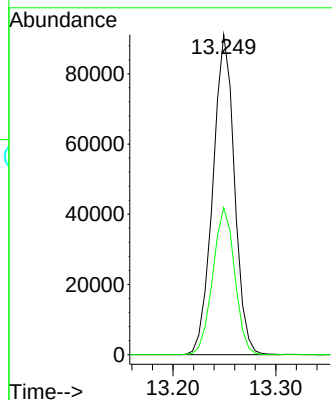
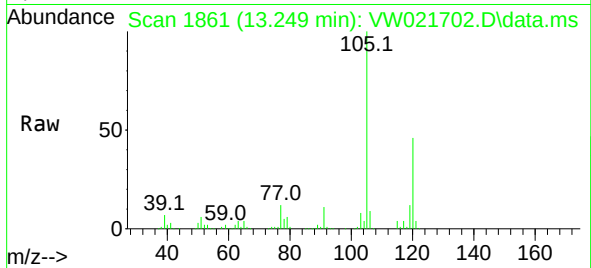




#63
1,2,4-Trimethylbenzene
Concen: 23.104 ug/L
RT: 13.249 min Scan# 1861
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

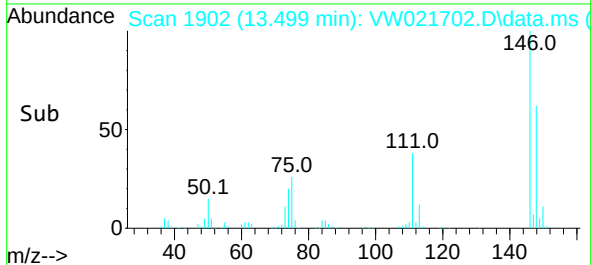
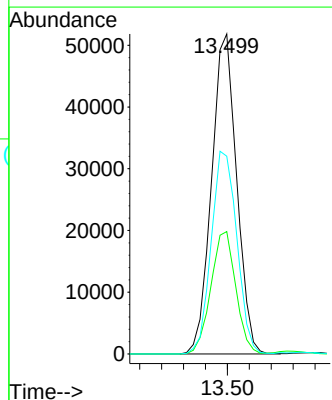
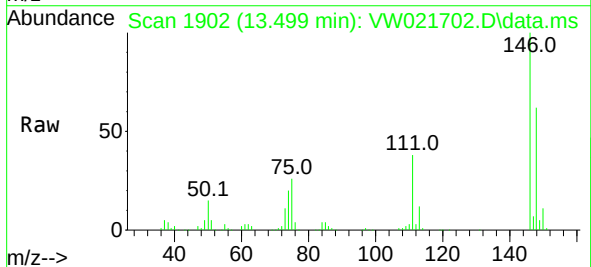
Instrument :
MSVOA_W
ClientSampleId :
GBCC8

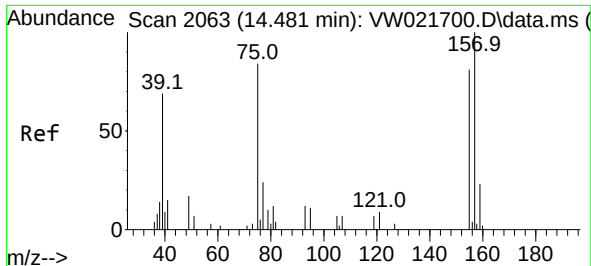
Tgt Ion:105 Resp: 133045
Ion Ratio Lower Upper
105 100
120 46.5 35.0 52.6



#64
1,3-Dichlorobenzene
Concen: 25.480 ug/L
RT: 13.499 min Scan# 1902
Delta R.T. 0.000 min
Lab File: VW021702.D
Acq: 30 Dec 2021 10:19

Tgt Ion:146 Resp: 82493
Ion Ratio Lower Upper
146 100
111 38.2 29.8 55.3
148 61.8 46.2 85.8





#68

1,2-Dibromo-3-chloropropane

Concen: 43.627 ug/L

RT: 14.481 min Scan# 2063

Delta R.T. 0.000 min

Lab File: VW021702.D

Acq: 30 Dec 2021 10:19

Instrument :

MSVOA_W

ClientSampleId :

GBCC8

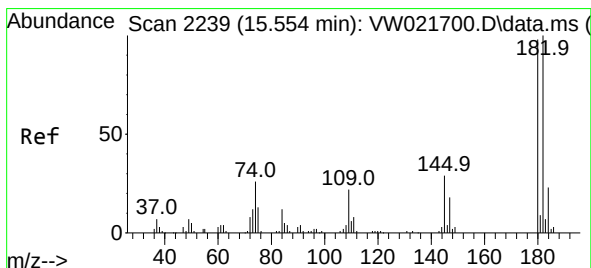
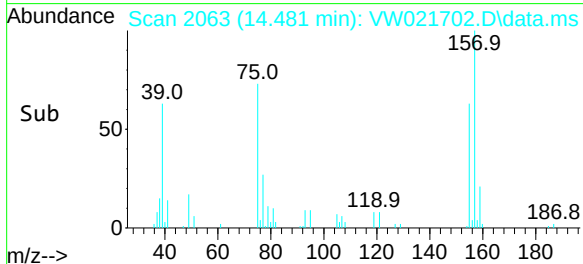
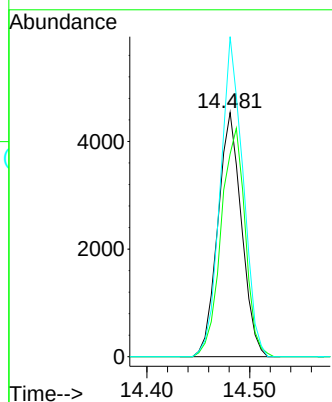
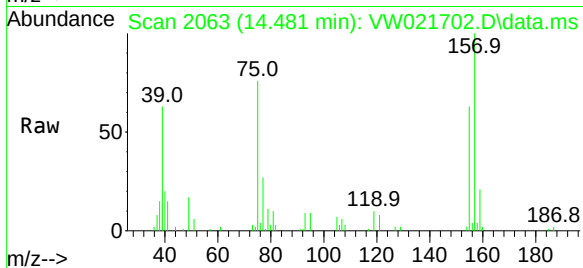
Tgt Ion: 75 Resp: 7231

Ion Ratio Lower Upper

75 100

155 83.0 54.2 81.2#

157 131.0 69.4 104.2#



#72

1,2,3-Trichlorobenzene

Concen: 9.893 ug/L

RT: 15.554 min Scan# 2239

Delta R.T. 0.000 min

Lab File: VW021702.D

Acq: 30 Dec 2021 10:19

Tgt Ion:180 Resp: 15810

Ion Ratio Lower Upper

180 100

182 93.8 76.6 114.8

145 30.7 27.4 41.0

