

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092121\
 Data File : VW020090.D
 Acq On : 21 Sep 2021 13:42
 Operator : SY/VA
 Sample : M3813-18
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 GB6W2

Quant Time: Sep 22 05:07:51 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM092121SMA.M
 Quant Title : SFAM01.0
 QLast Update : Wed Sep 22 05:02:48 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.848	114	372201	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.634	117	353681	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.560	152	180353	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.361	65	160464	21.074	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	84.280%		
7) Chloroethane-d5	2.891	69	125795	21.930	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery =	87.720%		
11) 1,1-Dichloroethene-d2	4.025	63	253821	21.290	ug/L	0.00
Spiked Amount 25.000	Range 45 - 110		Recovery =	85.160%		
21) 2-Butanone-d5	7.080	46	55317	47.078	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	94.160%		
24) Chloroform-d	7.653	84	258367	22.072	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery =	88.280%		
26) 1,2-Dichloroethane-d4	8.311	65	146036	23.180	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery =	92.720%		
32) Benzene-d6	8.281	84	514286	22.792	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery =	91.160%		
36) 1,2-Dichloropropane-d6	9.274	67	147177	22.538	ug/L	0.00
Spiked Amount 25.000	Range 70 - 120		Recovery =	90.160%		
41) Toluene-d8	10.329	98	464200	22.610	ug/L	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery =	90.440%		
43) trans-1,3-Dichloroprop...	10.579	79	65110	23.327	ug/L	0.00
Spiked Amount 25.000	Range 30 - 135		Recovery =	93.320%		
47) 2-Hexanone-d5	10.927	63	44729	49.495	ug/L	0.00
Spiked Amount 50.000	Range 20 - 135		Recovery =	99.000%		
56) 1,1,2,2-Tetrachloroeth...	12.695	84	114126	22.657	ug/L	0.00
Spiked Amount 25.000	Range 45 - 120		Recovery =	90.640%		
66) 1,2-Dichlorobenzene-d4	13.853	152	151854	22.455	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery =	89.800%		
Target Compounds					Qvalue	
3) Chloromethane	2.215	50	85292	18.921	ug/L	100
6) Bromomethane	2.782	94	36842	8.051	ug/L	95
9) Trichlorofluoromethane	3.263	101	69187	13.893	ug/L	99
12) 1,1-Dichloroethene	4.050	96	103603	20.989	ug/L	92
13) Acetone	4.123	43	75397	74.922	ug/L	98
15) Methyl Acetate	4.678	43	80327	41.741	ug/L	99
16) Methylene chloride	4.922	84	89491	13.626	ug/L	99
17) trans-1,2-Dichloroethene	5.428	96	56815	10.926	ug/L	95
18) Methyl tert-butyl Ether	5.434	73	206917	33.520	ug/L	100
20) cis-1,2-Dichloroethene	7.177	96	146313	27.667	ug/L	98
23) Bromochloromethane	7.519	128	37789	15.763	ug/L	98
27) 1,2-Dichloroethane	8.403	62	70940	10.748	ug/L	100
29) Cyclohexane	7.964	56	80339	10.208	ug/L	97
30) 1,1,1-Trichloroethane	7.872	97	86815	9.906	ug/L	99
31) Carbon tetrachloride	8.067	117	100678	12.626	ug/L	97
34) Trichloroethene	9.092	95	233987	40.950	ug/L	98
35) Methylcyclohexane	9.335	83	254563	27.342	ug/L	99
37) 1,2-Dichloropropane	9.372	63	71144	13.457	ug/L	98
38) Bromodichloromethane	9.646	83	149843	20.930	ug/L	100

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 Quant Title : SFAM01.0
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

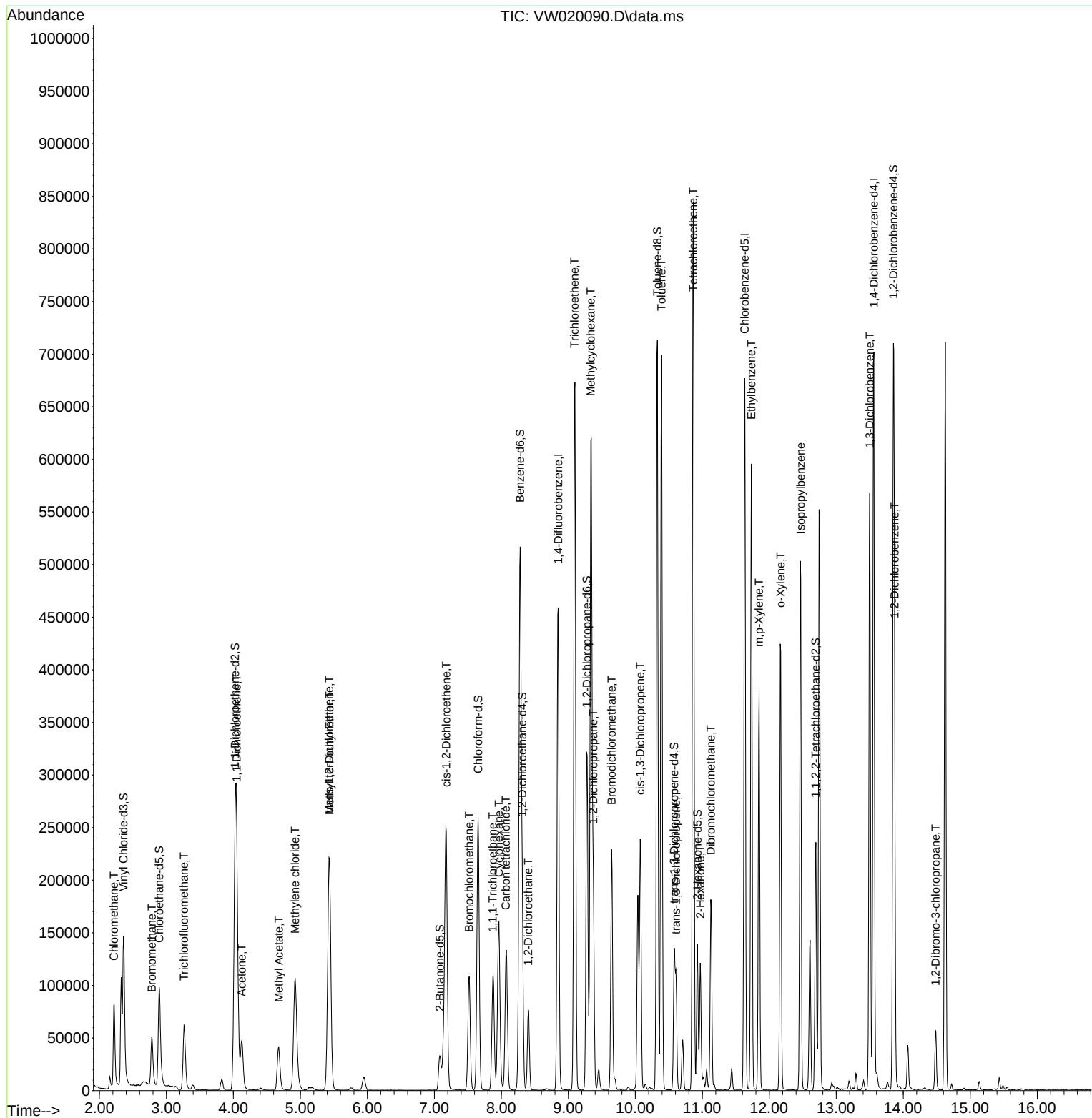
39) cis-1,3-Dichloropropene	10.073	75	138617	17.776	ug/L	95
42) Toluene	10.390	91	498467	21.981	ug/L	97
44) trans-1,3-Dichloropropene	10.610	75	57205	8.167	ug/L	97
46) Tetrachloroethene	10.866	164	180137	40.787	ug/L	94
48) 2-Hexanone	10.969	43	68112	36.722	ug/L	97
49) Dibromochloromethane	11.128	129	93565	20.655	ug/L	96
52) Ethylbenzene	11.731	91	400218	16.023	ug/L	99
53) m,p-Xylene	11.847	106	99081	10.405	ug/L	93
54) o-Xylene	12.170	106	110609	12.557	ug/L	94
60) Isopropylbenzene	12.469	105	304147	12.577	ug/L	100
64) 1,3-Dichlorobenzene	13.499	146	220881	19.917	ug/L	97
67) 1,2-Dichlorobenzene	13.871	146	106217	10.516	ug/L	97
68) 1,2-Dibromo-3-chloropr...	14.481	75	14525	19.000	ug/L	96

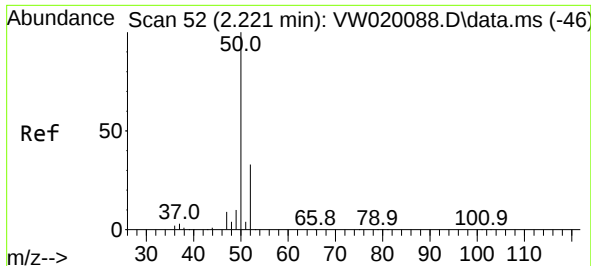
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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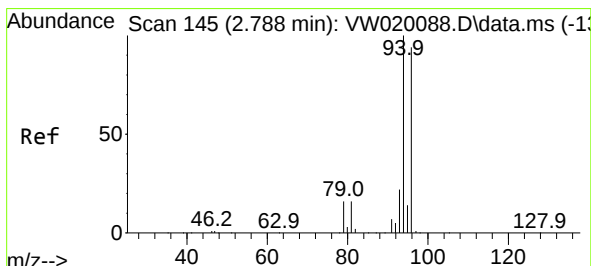
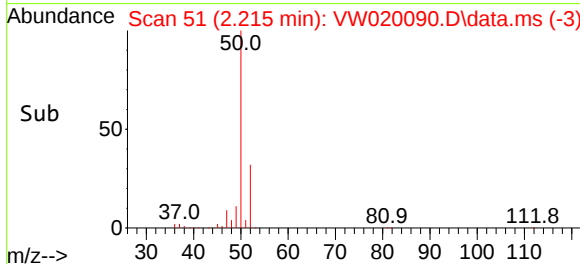
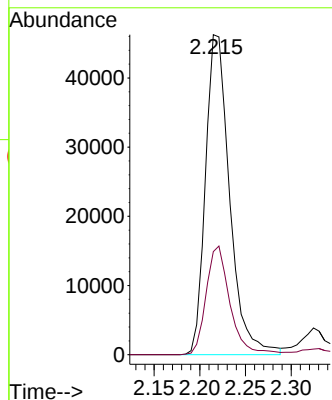
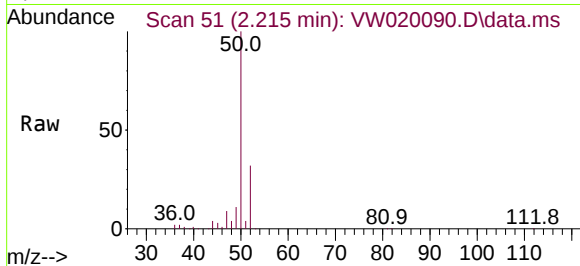




#3
Chloromethane
Concen: 18.921 ug/L
RT: 2.215 min Scan# 51
Delta R.T. -0.006 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

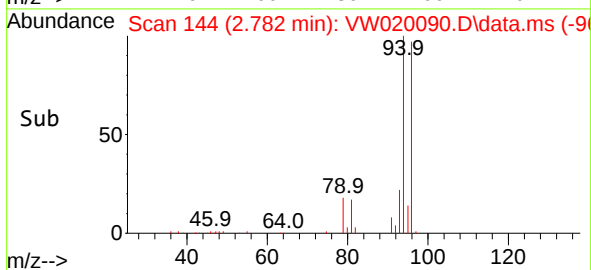
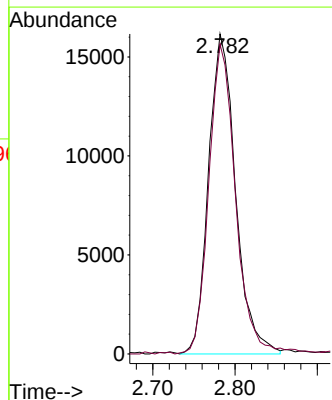
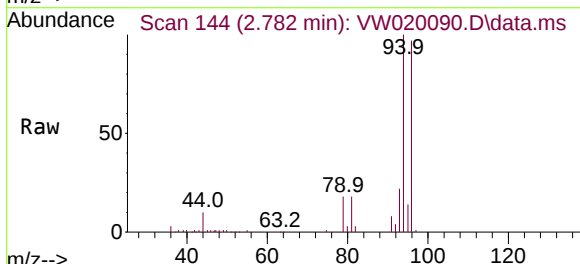
Instrument :
MSVOA_W
ClientSampled :
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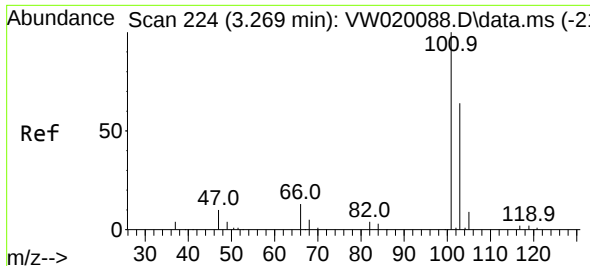
Tgt Ion: 50 Resp: 85292
Ion Ratio Lower Upper
50 100
52 32.2 22.5 41.9



#6
Bromomethane
Concen: 8.051 ug/L
RT: 2.782 min Scan# 144
Delta R.T. -0.006 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

Tgt Ion: 94 Resp: 36842
Ion Ratio Lower Upper
94 100
96 96.8 64.8 120.3

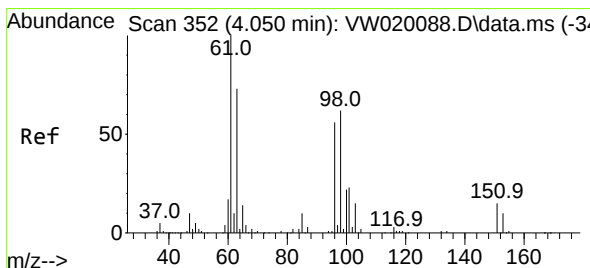
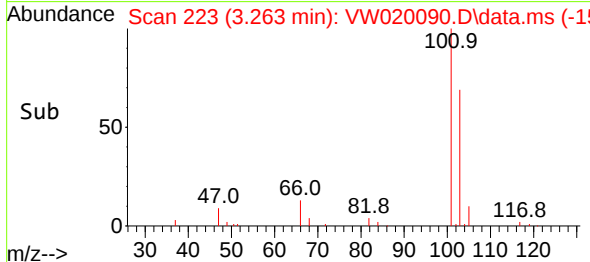
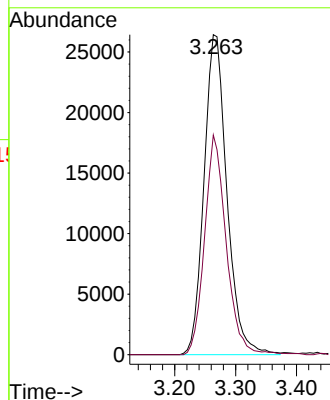
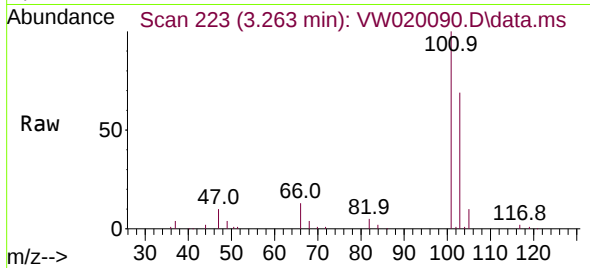




#9
Trichlorofluoromethane
Concen: 13.893 ug/L
RT: 3.263 min Scan# 223
Delta R.T. -0.006 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

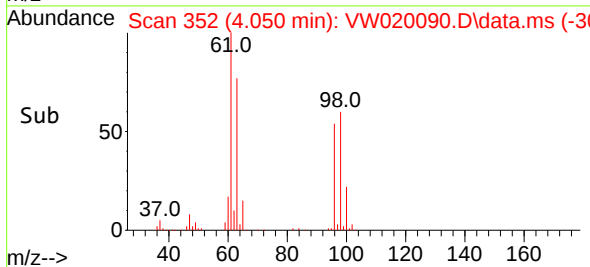
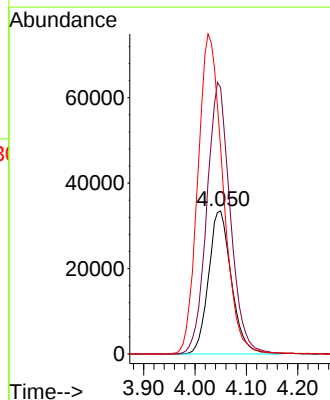
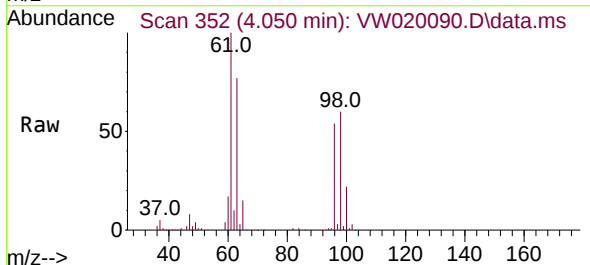
Instrument :
MSVOA_W
ClientSampled :
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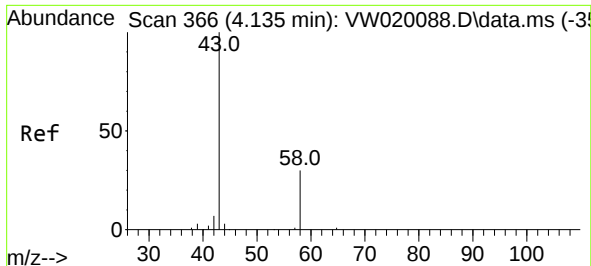
Tgt Ion:101 Resp: 69187
Ion Ratio Lower Upper
101 100
103 64.6 51.3 76.9



#12
1,1-Dichloroethene
Concen: 20.989 ug/L
RT: 4.050 min Scan# 352
Delta R.T. -0.000 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

Tgt Ion: 96 Resp: 103603
Ion Ratio Lower Upper
96 100
61 185.9 126.1 234.3
63 143.7 112.6 209.0

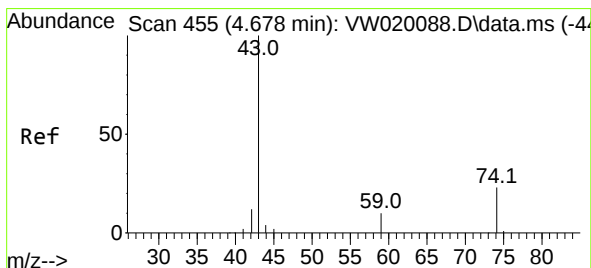
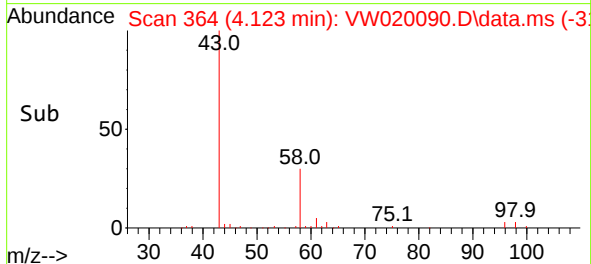
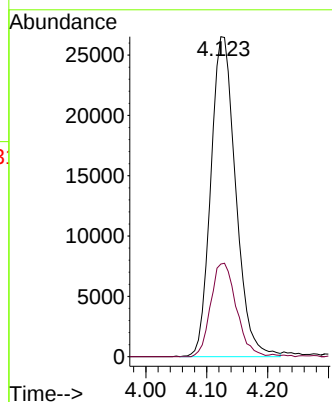
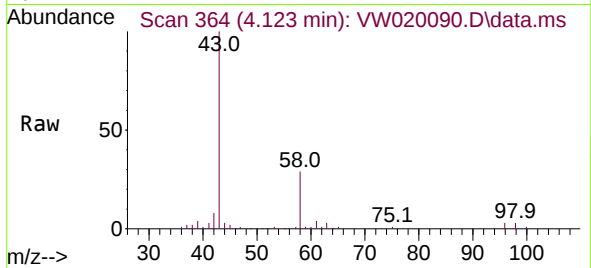




#13
Acetone
Concen: 74.922 ug/L
RT: 4.123 min Scan# 364
Delta R.T. -0.012 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

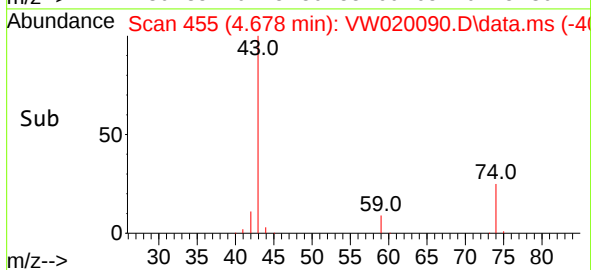
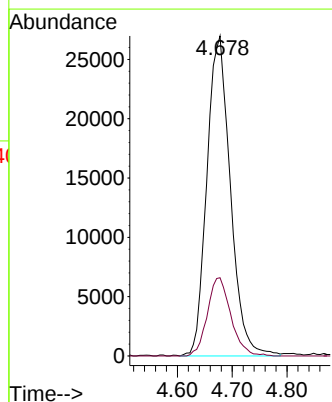
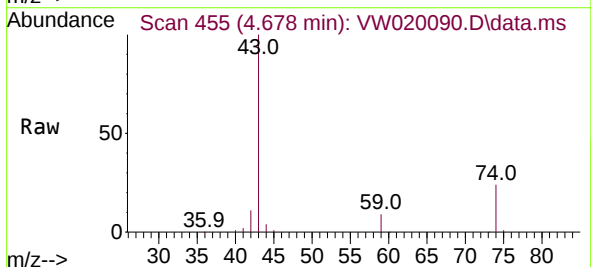
Instrument :
MSVOA_W
ClientSampled :
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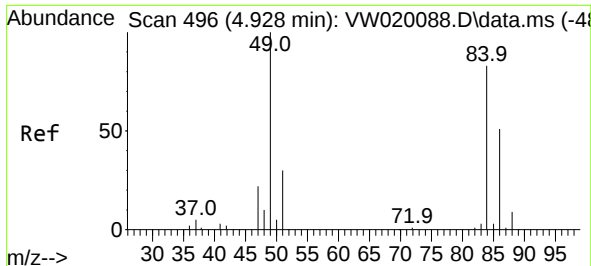
Tgt Ion: 43 Resp: 75397
Ion Ratio Lower Upper
43 100
58 29.9 0.0 61.6



#15
Methyl Acetate
Concen: 41.741 ug/L
RT: 4.678 min Scan# 455
Delta R.T. -0.000 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

Tgt Ion: 43 Resp: 80327
Ion Ratio Lower Upper
43 100
74 24.3 20.0 30.0

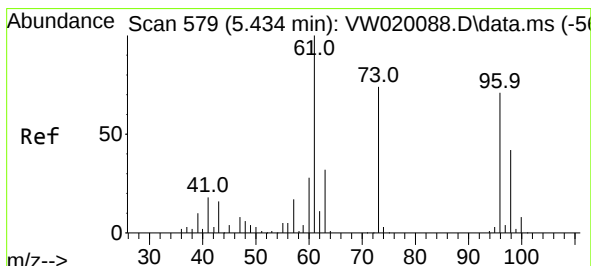
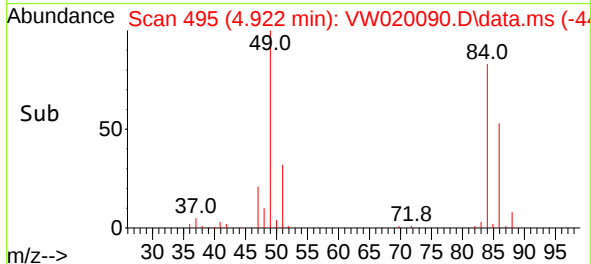
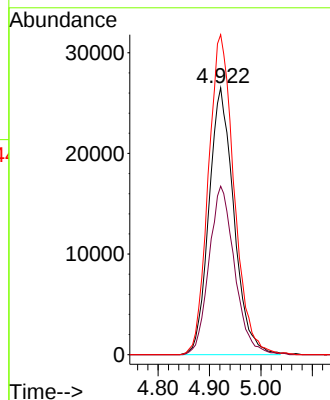
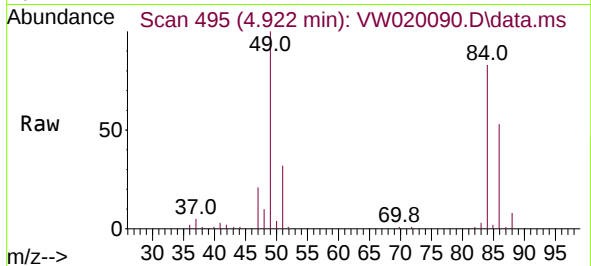




#16
Methylene chloride
Concen: 13.626 ug/L
RT: 4.922 min Scan# 495
Delta R.T. -0.006 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

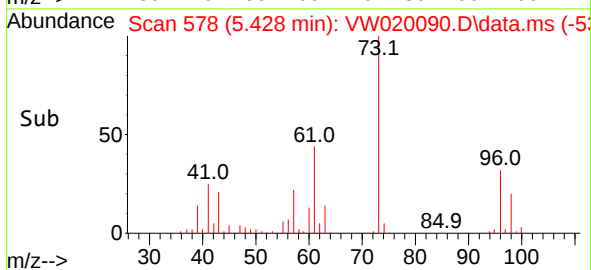
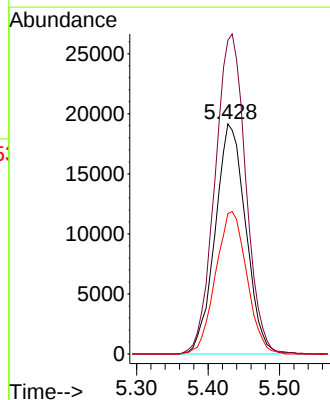
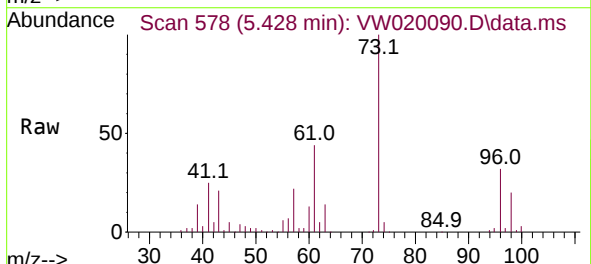
Instrument :
MSVOA_W
ClientSampled :
GB6W2

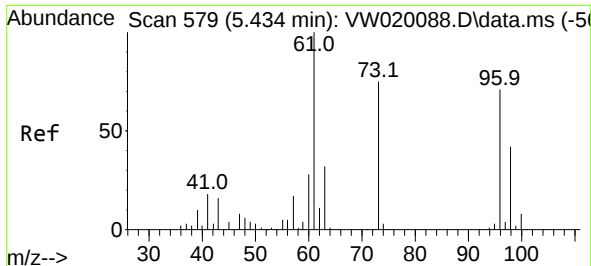
Tgt Ion:	84	Resp:	89491
Ion	Ratio	Lower	Upper
84	100		
86	63.1	42.6	79.0
49	119.9	83.4	154.8



#17
trans-1,2-Dichloroethene
Concen: 10.926 ug/L
RT: 5.428 min Scan# 578
Delta R.T. -0.006 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

Tgt Ion:	96	Resp:	56815
Ion	Ratio	Lower	Upper
96	100		
61	136.3	98.3	182.5
98	61.0	46.6	86.6

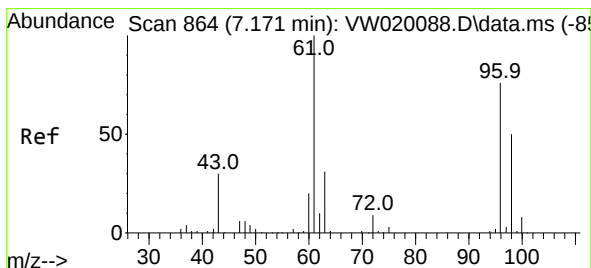
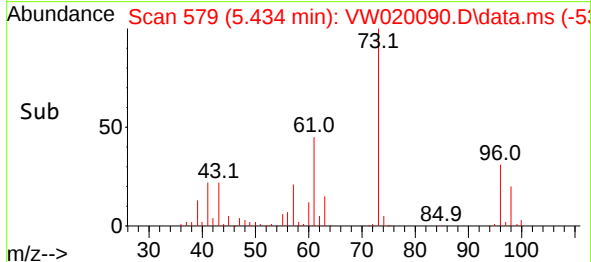
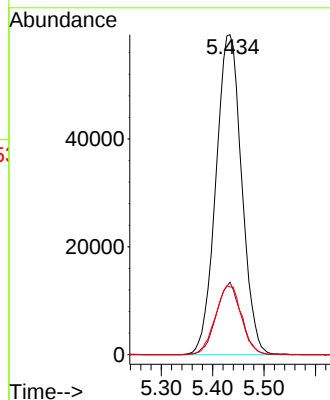
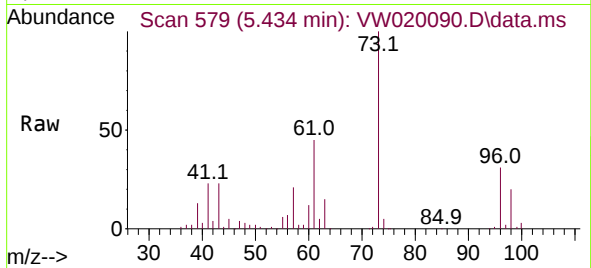




#18
Methyl tert-butyl Ether
Concen: 33.520 ug/L
RT: 5.434 min Scan# 579
Delta R.T. -0.000 min
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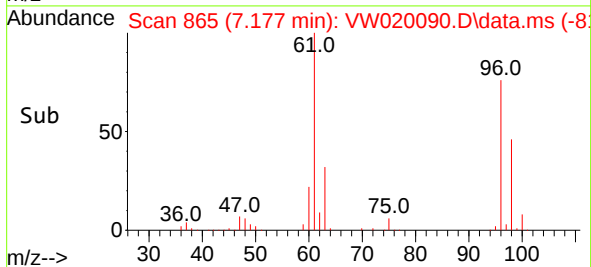
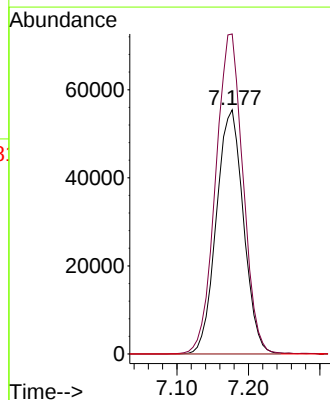
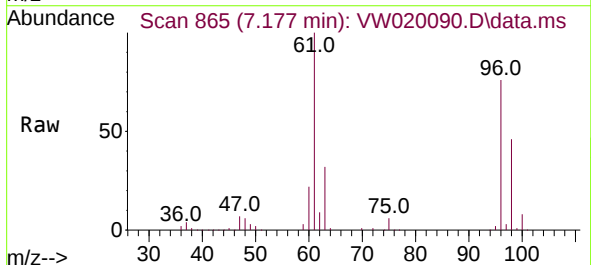
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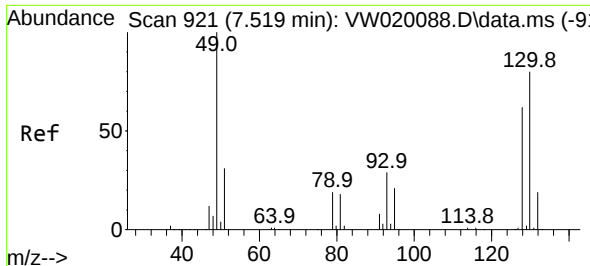
Tgt Ion: 73	Resp: 206917
Ion Ratio	Lower Upper
73 100	
43 21.6	17.4 26.0
57 22.0	17.4 26.0



#20
cis-1,2-Dichloroethene
Concen: 27.667 ug/L
RT: 7.177 min Scan# 865
Delta R.T. 0.006 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

Tgt Ion: 96	Resp: 146313
Ion Ratio	Lower Upper
96 100	
61 131.0	89.9 167.0
68 0.0	0.0 0.0

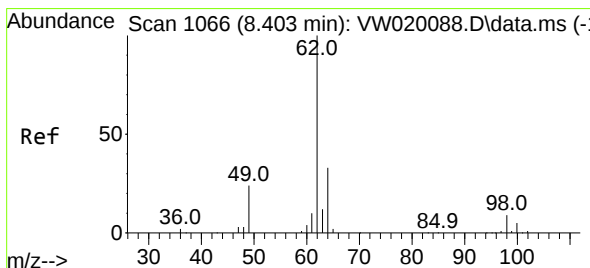
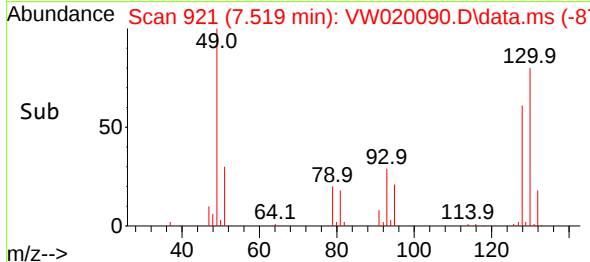
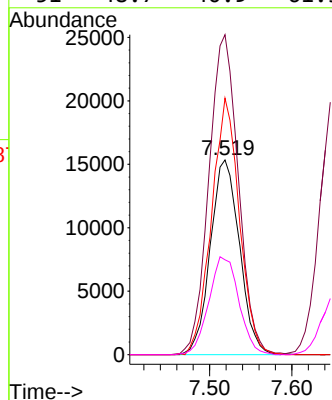
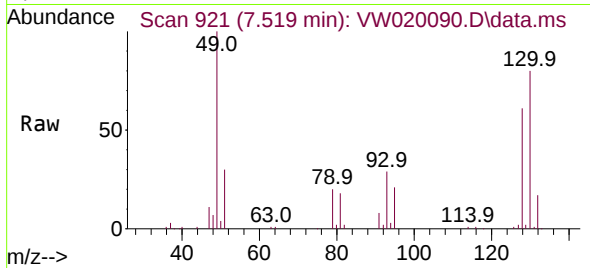




#23
Bromochloromethane
Concen: 15.763 ug/L
RT: 7.519 min Scan# 921
Delta R.T. -0.000 min
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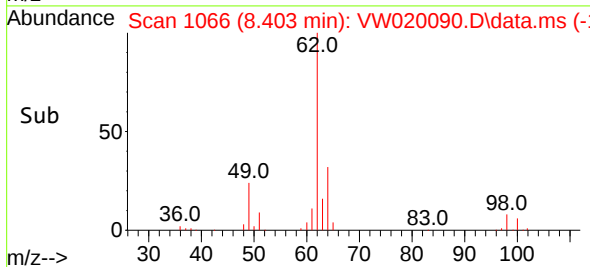
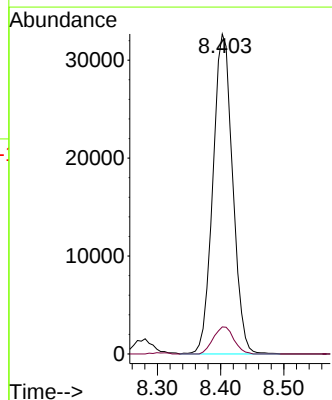
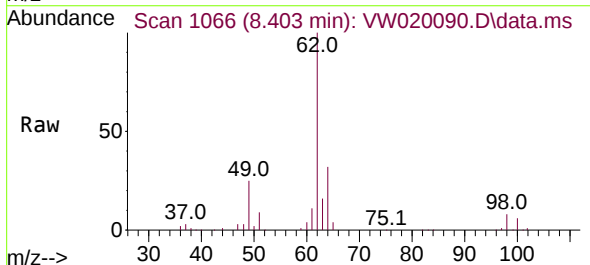
Instrument :
MSVOA_W
ClientSampled :
GB6W2

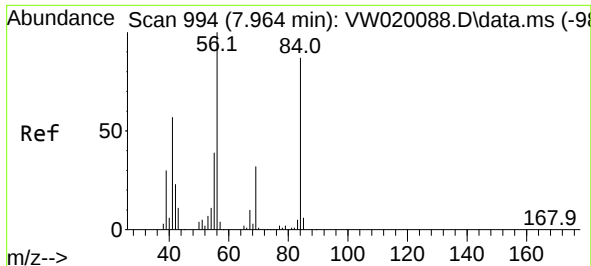
Tgt Ion:	128	Resp:	37789
Ion	Ratio	Lower	Upper
128	100		
49	164.3	114.7	213.1
130	131.7	94.2	175.0
51	48.7	40.9	61.3



#27
1,2-Dichloroethane
Concen: 10.748 ug/L
RT: 8.403 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

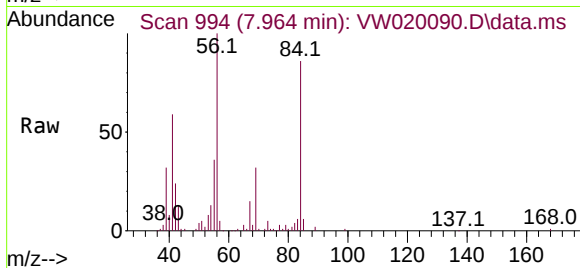
Tgt Ion:	62	Resp:	70940
Ion	Ratio	Lower	Upper
62	100		
98	8.4	6.9	10.3



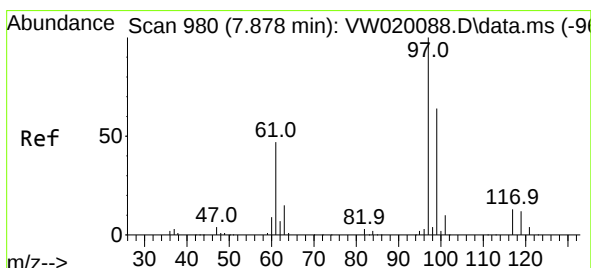
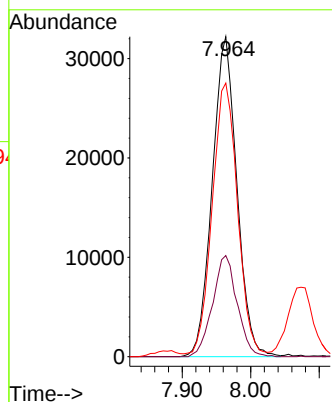
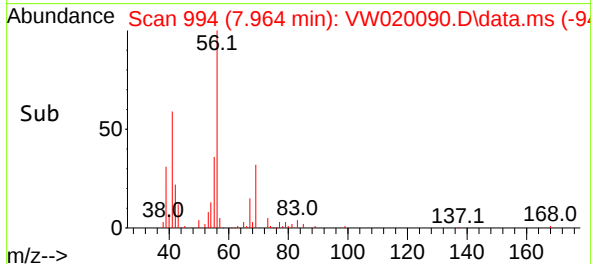


#29
Cyclohexane
Concen: 10.208 ug/L
RT: 7.964 min Scan# 994
Delta R.T. -0.000 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

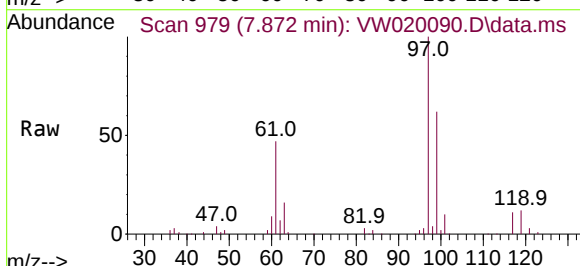
Instrument :
MSVOA_W
ClientSampled :
GB6W2



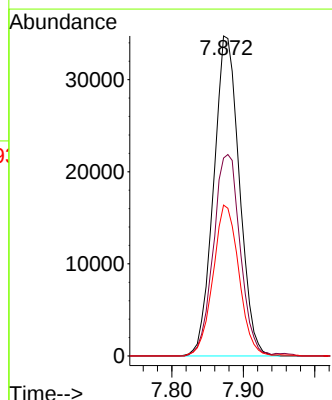
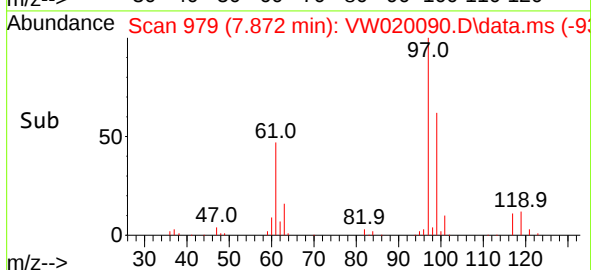
Tgt Ion: 56 Resp: 80339
Ion Ratio Lower Upper
56 100
69 31.5 25.7 38.5
84 88.4 73.4 110.2

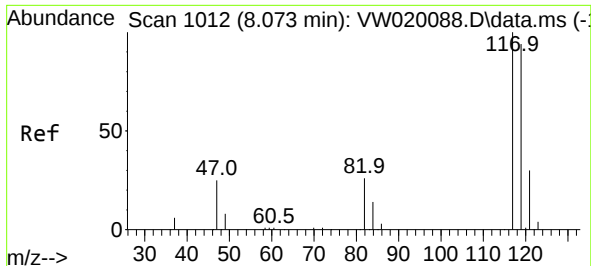


#30
1,1,1-Trichloroethane
Concen: 9.906 ug/L
RT: 7.872 min Scan# 979
Delta R.T. -0.006 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42



Tgt Ion: 97 Resp: 86815
Ion Ratio Lower Upper
97 100
99 65.5 51.4 77.0
61 47.4 37.5 56.3

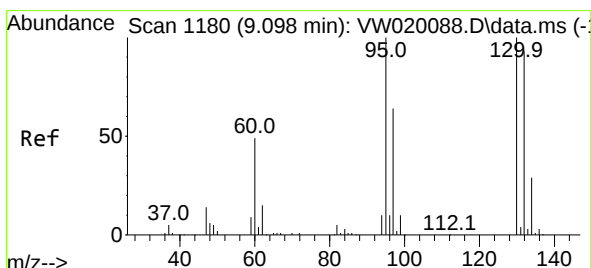
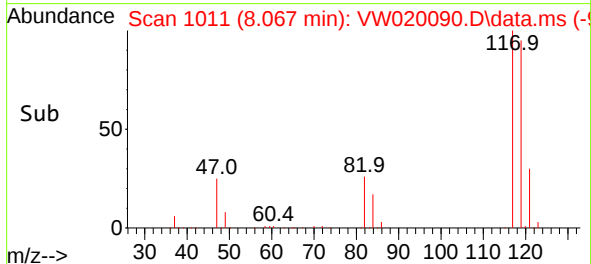
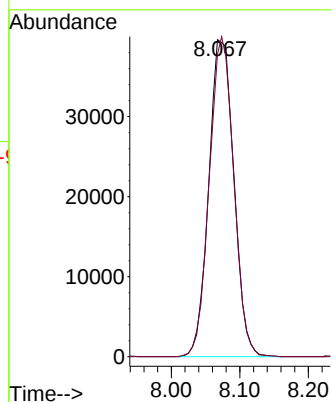
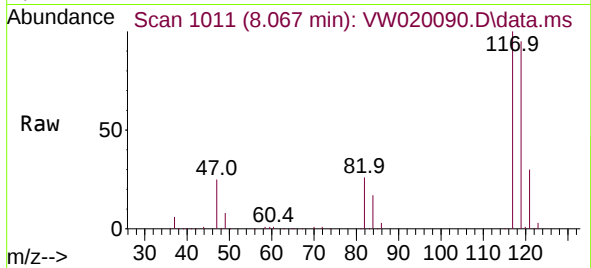




#31
Carbon tetrachloride
Concen: 12.626 ug/L
RT: 8.067 min Scan# 1011
Delta R.T. -0.006 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

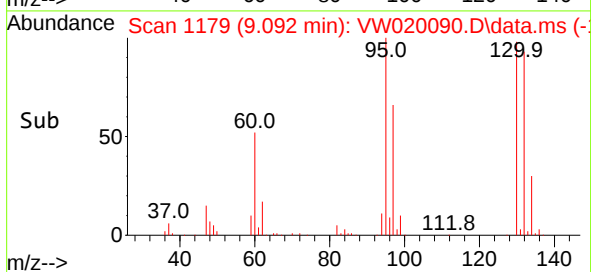
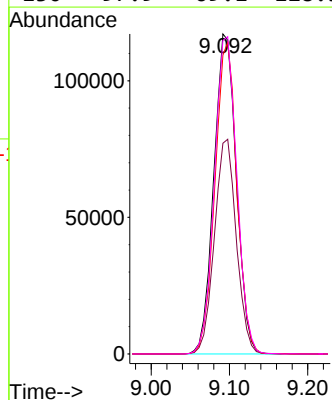
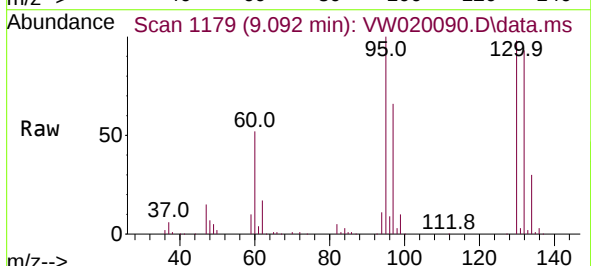
Instrument :
MSVOA_W
ClientSampled :
GB6W2

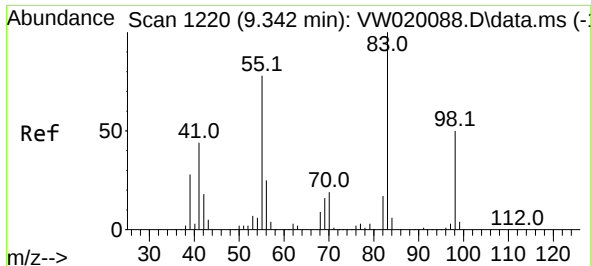
Tgt Ion:117 Resp: 100678
Ion Ratio Lower Upper
117 100
119 98.4 76.4 114.6



#34
Trichloroethene
Concen: 40.950 ug/L
RT: 9.092 min Scan# 1179
Delta R.T. -0.006 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

Tgt Ion: 95 Resp: 233987
Ion Ratio Lower Upper
95 100
97 65.9 45.1 83.7
132 93.4 67.9 126.1
130 97.9 69.1 128.3

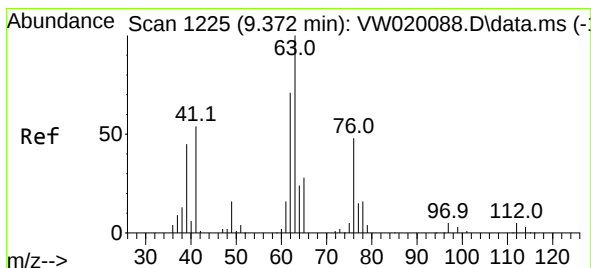
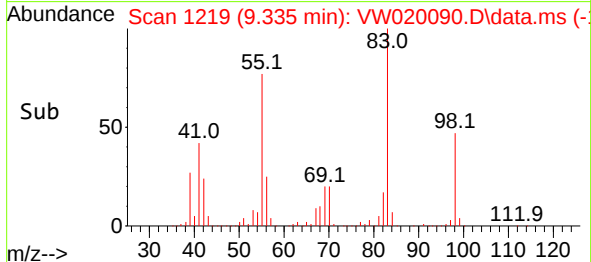
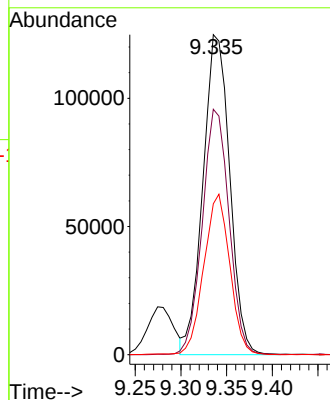
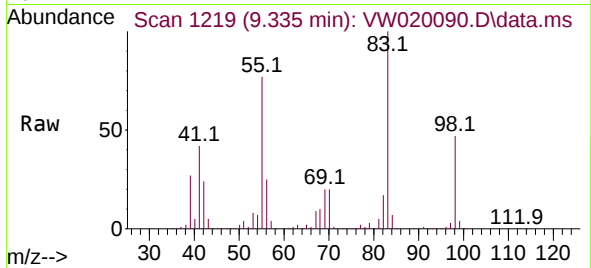




#35
Methylcyclohexane
Concen: 27.342 ug/L
RT: 9.335 min Scan# 1219
Delta R.T. -0.006 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

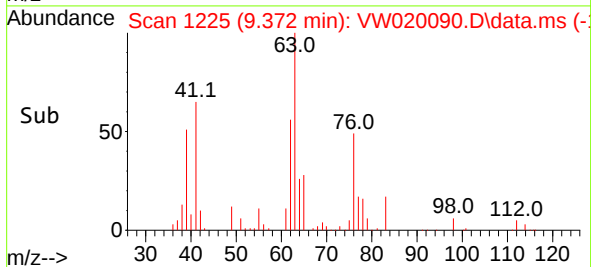
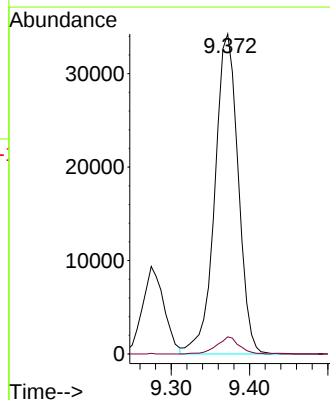
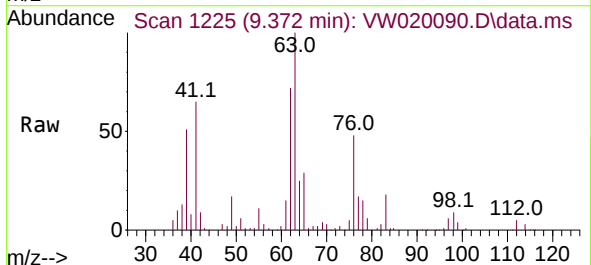
Instrument :
MSVOA_W
ClientSampled :
GB6W2

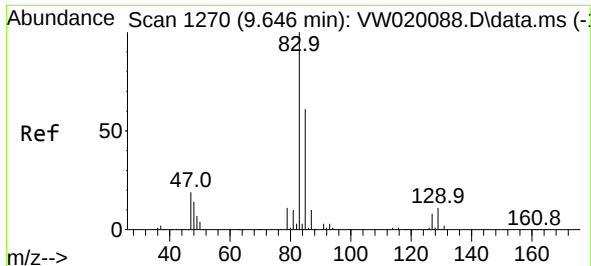
Tgt Ion: 83 Resp: 254563
Ion Ratio Lower Upper
83 100
55 76.6 61.4 92.2
98 48.6 38.1 57.1



#37
1,2-Dichloropropane
Concen: 13.457 ug/L
RT: 9.372 min Scan# 1225
Delta R.T. -0.000 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

Tgt Ion: 63 Resp: 71144
Ion Ratio Lower Upper
63 100
112 5.1 3.6 5.4

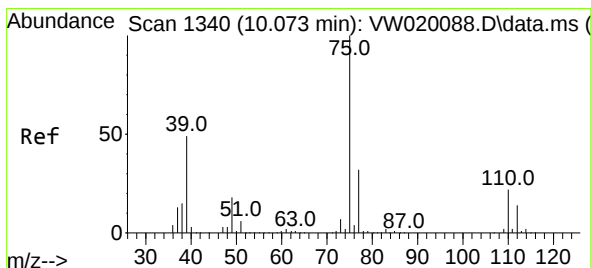
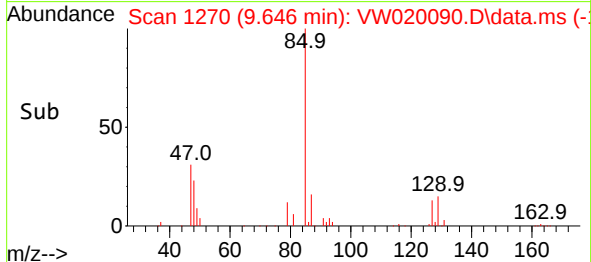
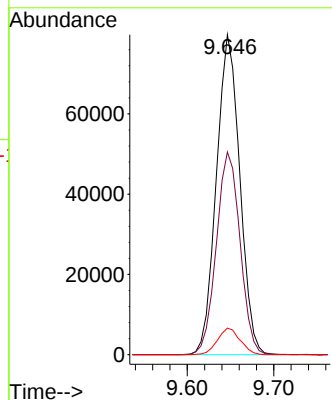
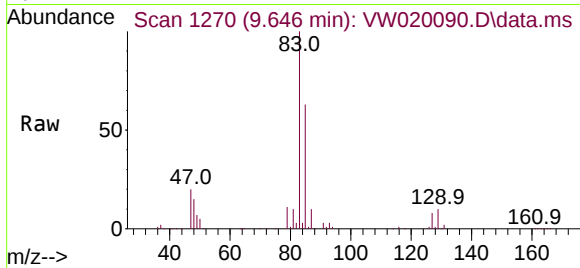




#38
Bromodichloromethane
Concen: 20.930 ug/L
RT: 9.646 min Scan# 1270
Delta R.T. -0.000 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

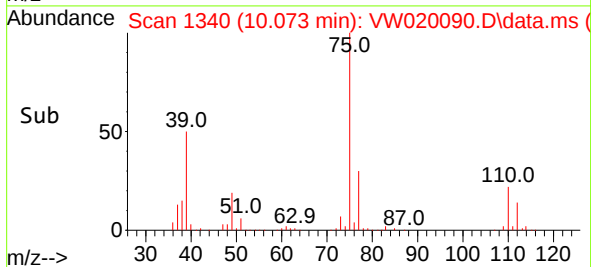
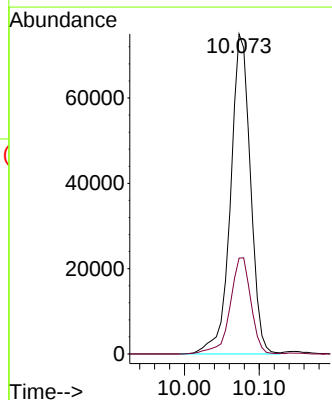
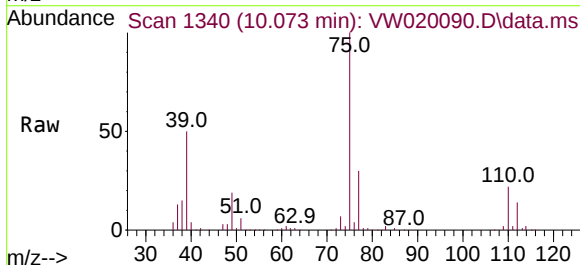
Instrument :
MSVOA_W
ClientSampled :
GB6W2

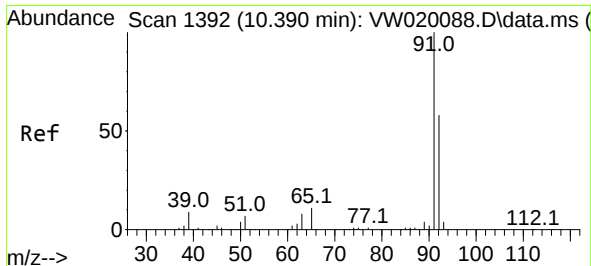
Tgt Ion: 83 Resp: 149843
Ion Ratio Lower Upper
83 100
85 63.3 44.4 82.5
127 8.3 6.5 9.7



#39
cis-1,3-Dichloropropene
Concen: 17.776 ug/L
RT: 10.073 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

Tgt Ion: 75 Resp: 138617
Ion Ratio Lower Upper
75 100
77 29.9 23.0 42.6

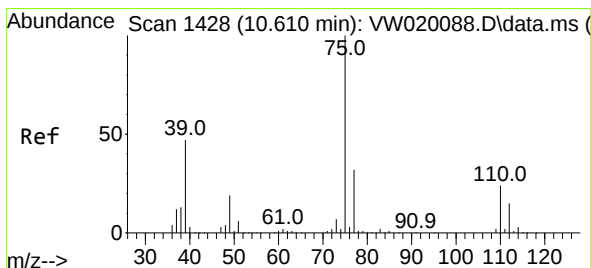
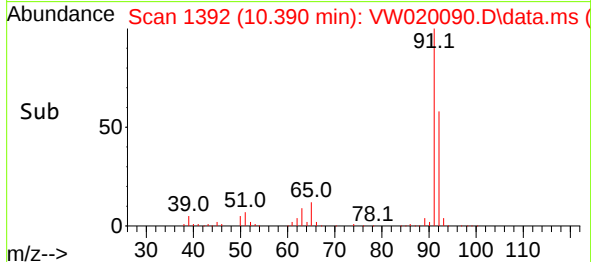
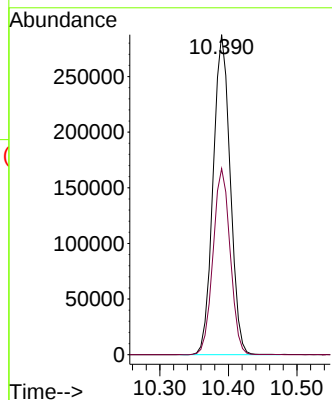
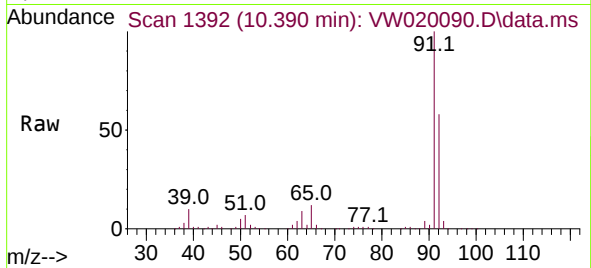




#42
Toluene
Concen: 21.981 ug/L
RT: 10.390 min Scan# 1392
Delta R.T. -0.000 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

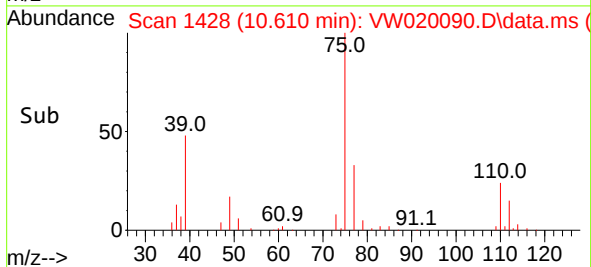
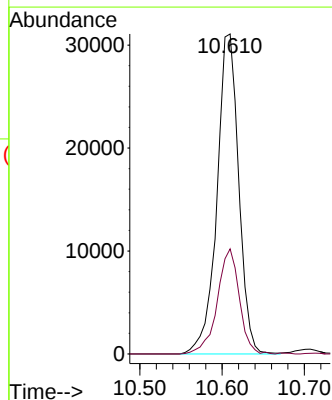
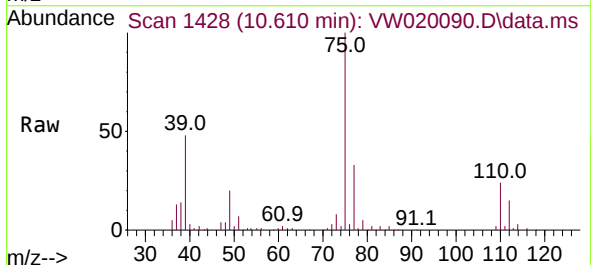
Instrument :
MSVOA_W
ClientSampled :
GB6W2

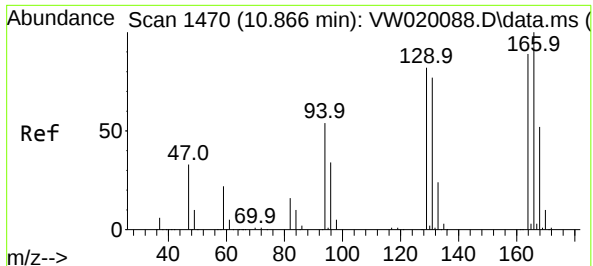
Tgt Ion: 91 Resp: 498467
Ion Ratio Lower Upper
91 100
92 58.1 42.2 78.4



#44
trans-1,3-Dichloropropene
Concen: 8.167 ug/L
RT: 10.610 min Scan# 1428
Delta R.T. -0.000 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

Tgt Ion: 75 Resp: 57205
Ion Ratio Lower Upper
75 100
77 32.9 22.0 40.8

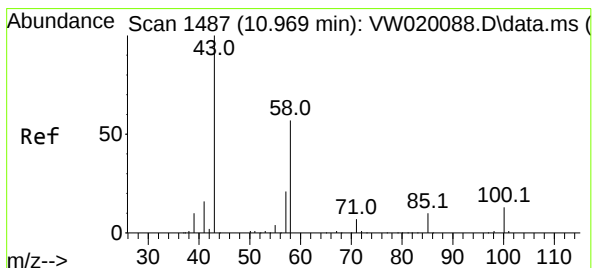
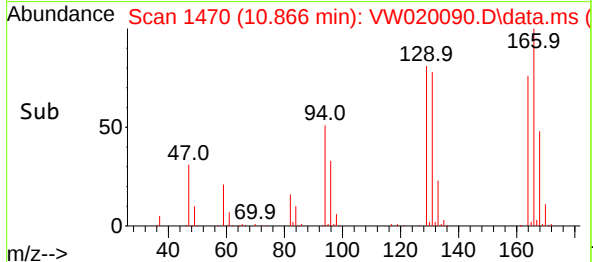
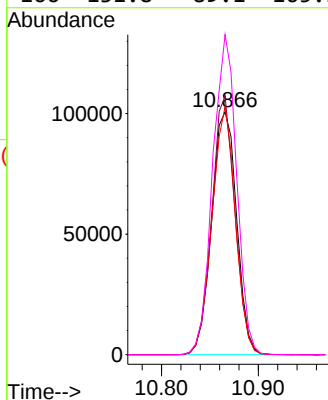
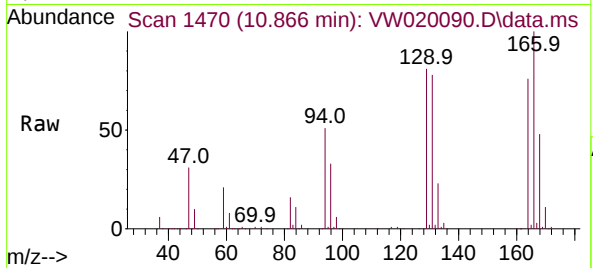




#46
Tetrachloroethene
Concen: 40.787 ug/L
RT: 10.866 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

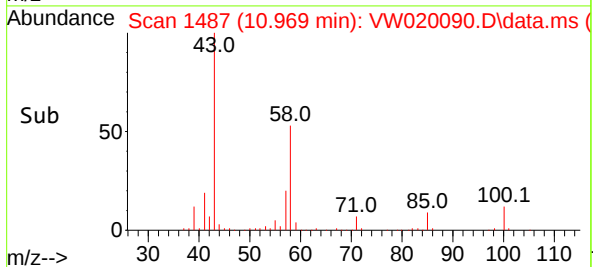
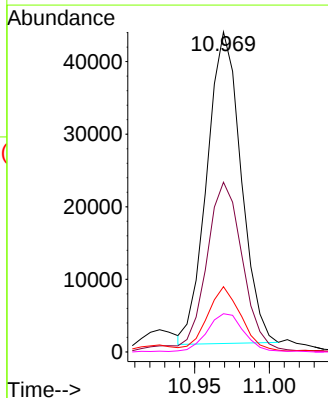
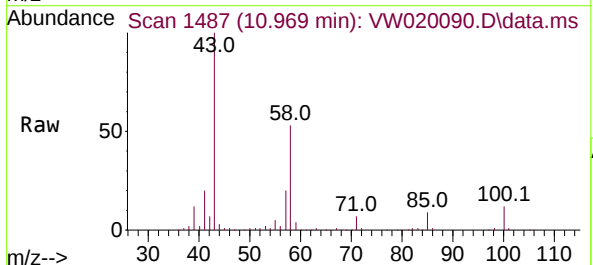
Instrument :
MSVOA_W
ClientSampled :
GB6W2

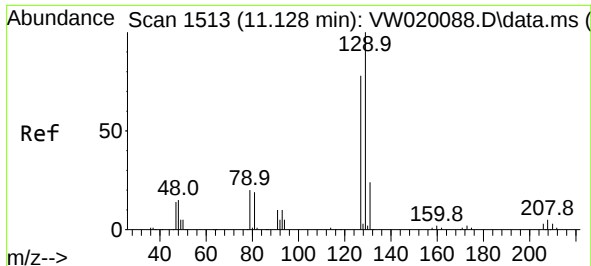
Tgt	Ion:164	Resp:	180137
Ion	Ratio	Lower	Upper
164	100		
129	106.5	69.5	129.1
131	102.1	66.5	123.5
166	131.8	89.1	165.5



#48
2-Hexanone
Concen: 36.722 ug/L
RT: 10.969 min Scan# 1487
Delta R.T. -0.000 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

Tgt Ion: 43	Resp: 68112
Ion Ratio	Lower Upper
43 100	
58 57.5	43.8 65.6
57 21.1	15.6 23.4
100 13.6	10.5 15.7





#49

Dibromochloromethane

Concen: 20.655 ug/L

RT: 11.128 min Scan# 1513

Delta R.T. -0.000 min

Lab File: VW020090.D

Acq: 21 Sep 2021 13:42

Tgt Ion:129 Resp: 93565

Ion Ratio Lower Upper

129 100

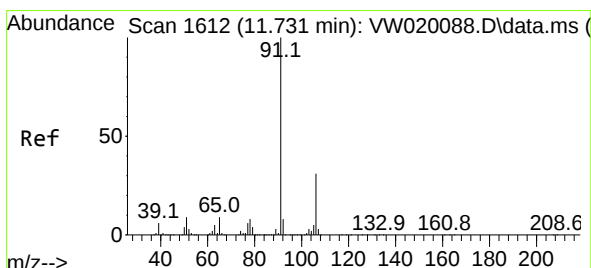
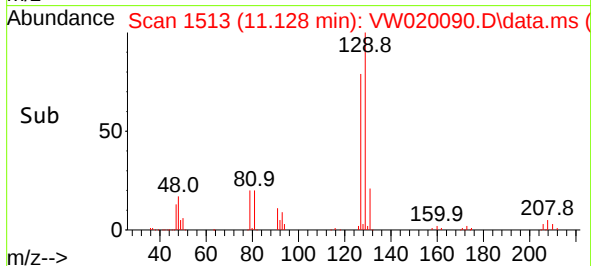
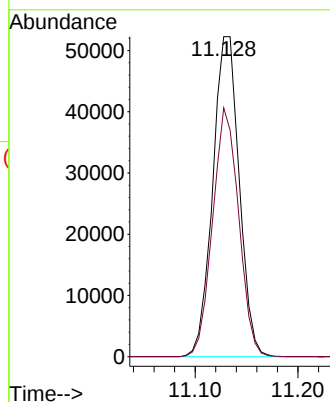
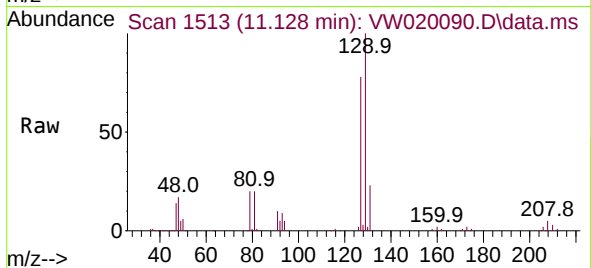
127 77.7 57.0 105.8

Instrument :

MSVOA_W

ClientSampled :

GB6W2



#52

Ethylbenzene

Concen: 16.023 ug/L

RT: 11.731 min Scan# 1612

Delta R.T. -0.000 min

Lab File: VW020090.D

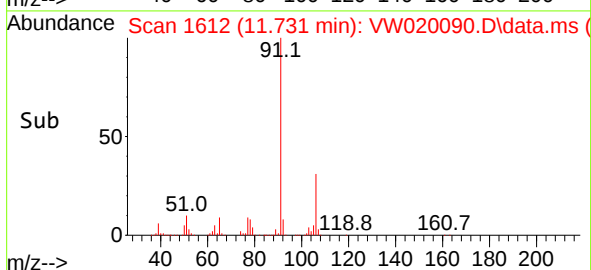
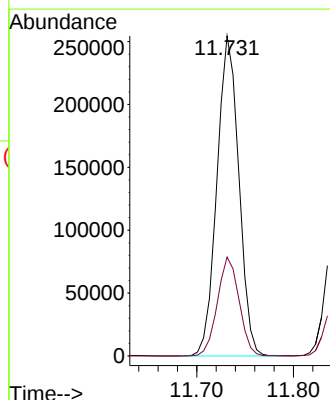
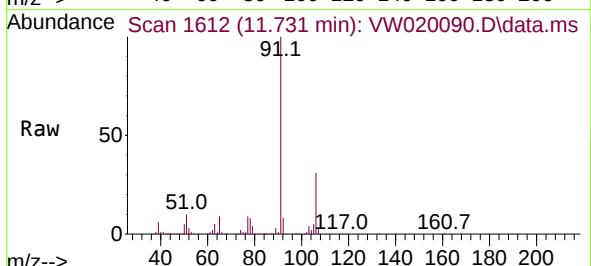
Acq: 21 Sep 2021 13:42

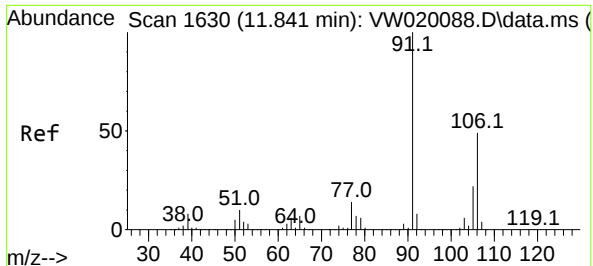
Tgt Ion: 91 Resp: 400218

Ion Ratio Lower Upper

91 100

106 30.9 22.0 40.8

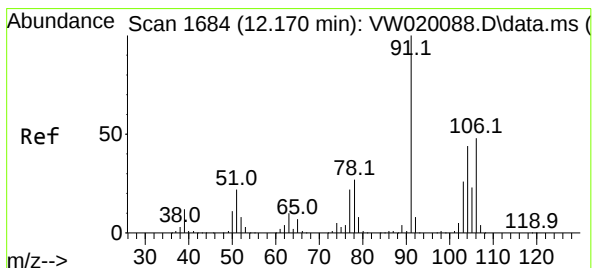
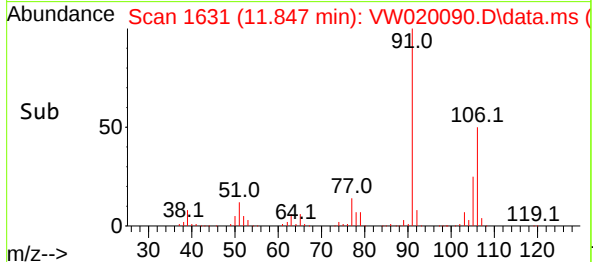
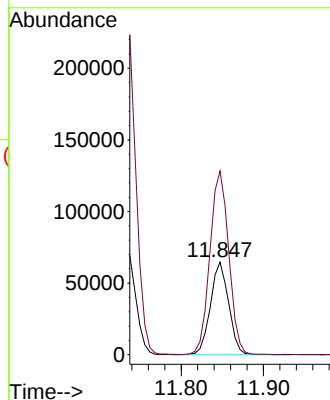
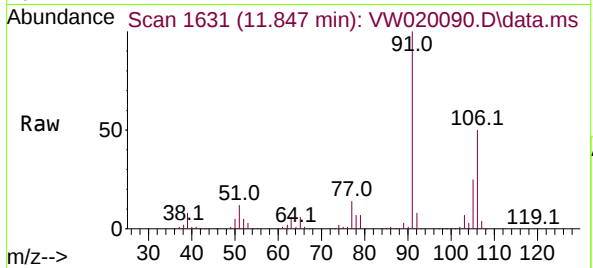




#53
m,p-Xylene
Concen: 10.405 ug/L
RT: 11.847 min Scan# 1631
Delta R.T. 0.006 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

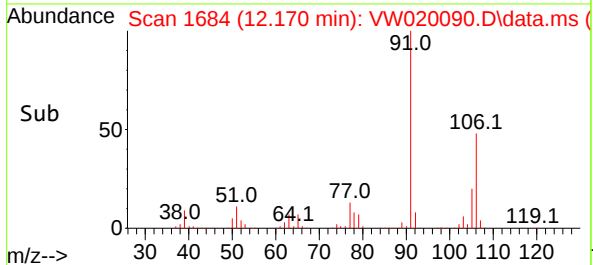
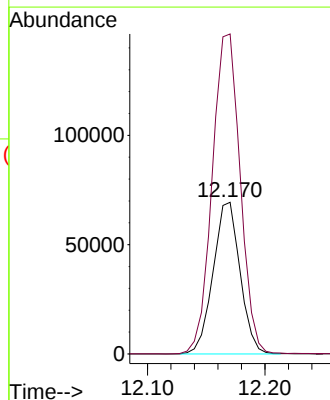
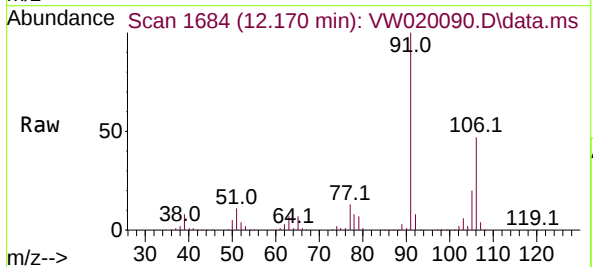
Instrument :
MSVOA_W
ClientSampled :
GB6W2

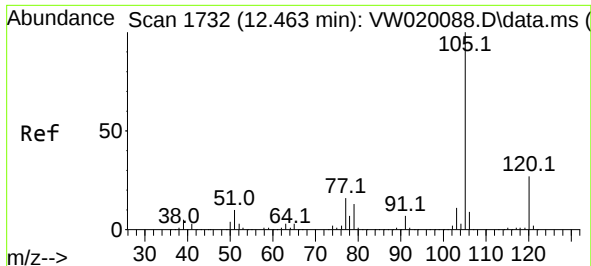
Tgt Ion:106 Resp: 99081
Ion Ratio Lower Upper
106 100
91 198.6 146.4 271.8



#54
o-Xylene
Concen: 12.557 ug/L
RT: 12.170 min Scan# 1684
Delta R.T. -0.000 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

Tgt Ion:106 Resp: 110609
Ion Ratio Lower Upper
106 100
91 210.9 154.3 286.7

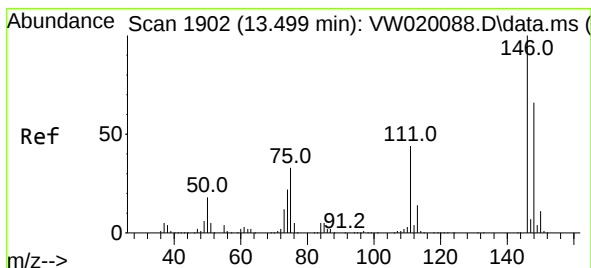
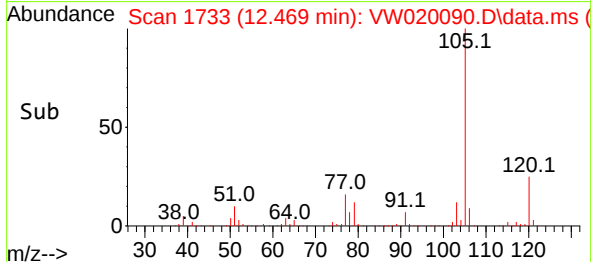
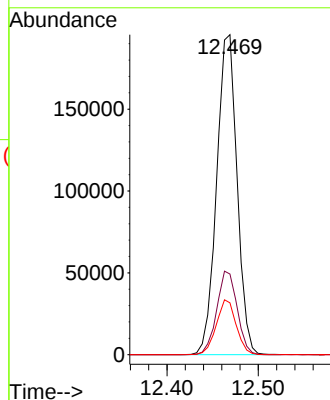
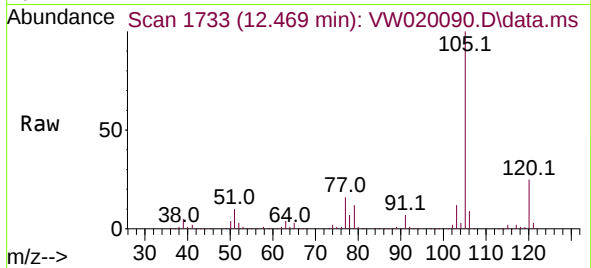




#60
Isopropylbenzene
Concen: 12.577 ug/L
RT: 12.469 min Scan# 1733
Delta R.T. 0.006 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

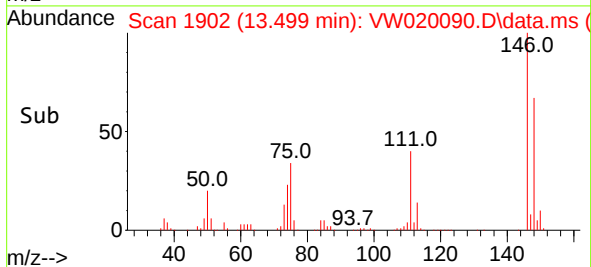
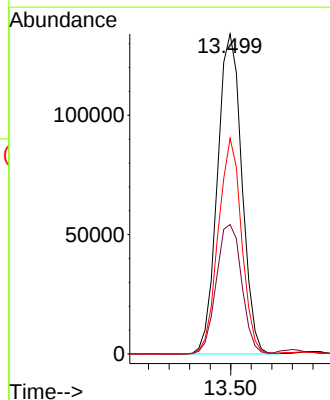
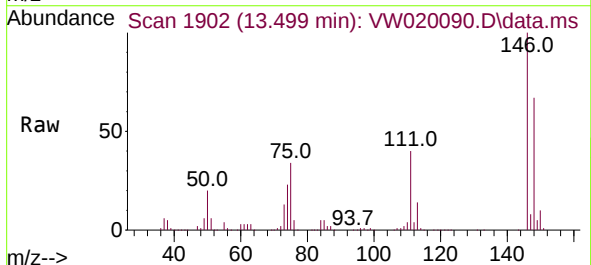
Instrument :
MSVOA_W
ClientSampleId :
GB6W2

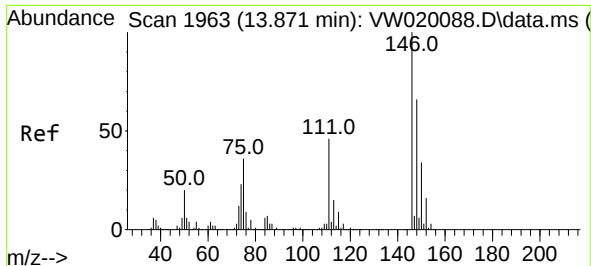
Tgt Ion:105 Resp: 304147
Ion Ratio Lower Upper
105 100
120 26.1 20.9 31.3
77 16.8 13.3 19.9



#64
1,3-Dichlorobenzene
Concen: 19.917 ug/L
RT: 13.499 min Scan# 1902
Delta R.T. -0.000 min
Lab File: VW020090.D
Acq: 21 Sep 2021 13:42

Tgt Ion:146 Resp: 220881
Ion Ratio Lower Upper
146 100
111 40.5 28.3 52.5
148 67.4 44.4 82.4





#67

1,2-Dichlorobenzene

Concen: 10.516 ug/L

RT: 13.871 min Scan# 1963

Delta R.T. -0.000 min

Lab File: VW020090.D

Acq: 21 Sep 2021 13:42

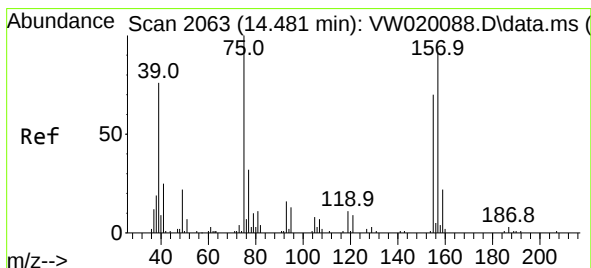
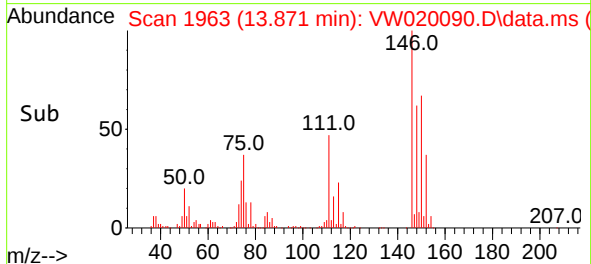
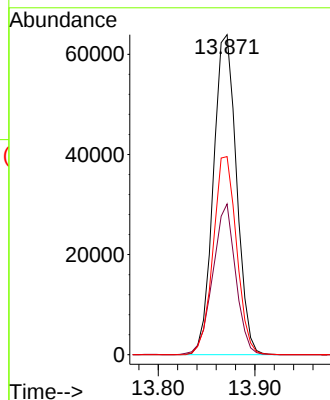
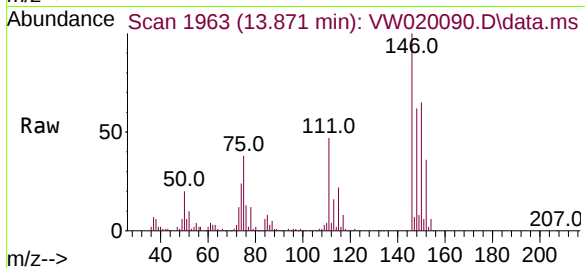
Tgt Ion:146 Resp: 106217

Ion Ratio Lower Upper

146 100

111 47.1 34.7 52.1

148 61.9 50.2 75.4



#68

1,2-Dibromo-3-chloropropane

Concen: 19.000 ug/L

RT: 14.481 min Scan# 2063

Delta R.T. -0.000 min

Lab File: VW020090.D

Acq: 21 Sep 2021 13:42

Tgt Ion: 75 Resp: 14525

Ion Ratio Lower Upper

75 100

155 72.3 58.5 87.7

157 90.3 77.4 116.0

