

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW112221\
 Data File : VW020944.D
 Acq On : 22 Nov 2021 18:13
 Operator : SY/VA
 Sample : M4811-01
 Misc : 5.20g/5.0mL/MSVOA_W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 23 02:26:36 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111721S.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 18 05:03:38 2021
 Response via : Initial Calibration

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

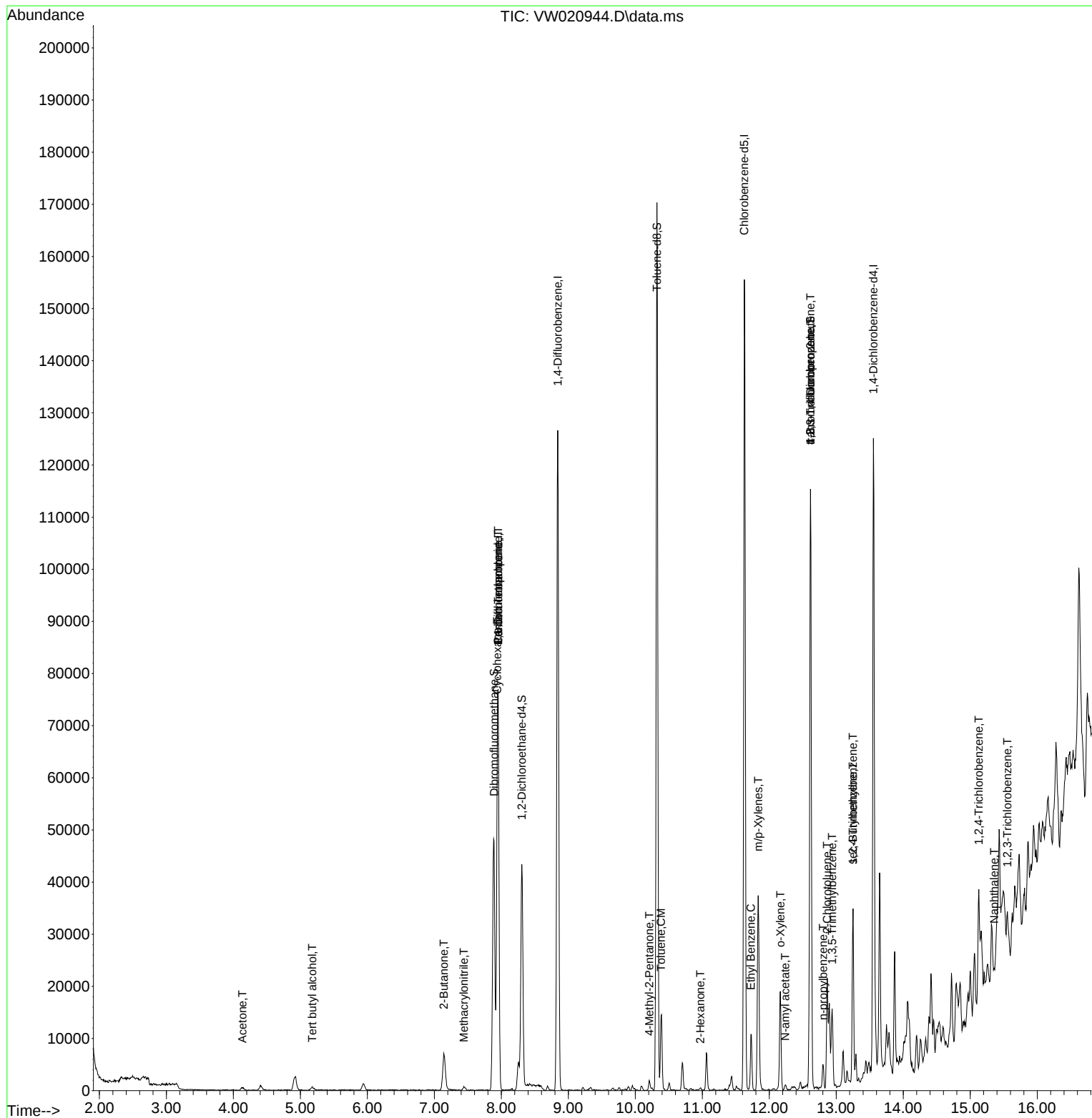
Internal Standards						
1) Pentafluorobenzene	7.952	168	63464	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.842	114	109887	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.628	117	86545	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.554	152	32087	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.305	65	33807	57.508	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	115.020%
35) Dibromofluoromethane	7.891	113	33260	48.254	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.500%
50) Toluene-d8	10.323	98	109412	43.281	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	86.560%
62) 4-Bromofluorobenzene	12.615	95	33534	35.569	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	71.140%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.178	59	1172	22.629	ug/l #	84
16) Acetone	4.135	43	1073	8.781	ug/l #	84
20) Methylene Chloride	4.909	84	2164	Below Cal		89
25) 2-Butanone	7.141	43	378	2.178	ug/l #	49
31) Cyclohexane	7.939	56	1354	1.381	ug/l #	56
36) 1,1-Dichloropropene	7.952	75	4288	4.344	ug/l #	48
38) Carbon Tetrachloride	7.952	117	5929	5.646	ug/l #	18
41) Methacrylonitrile	7.439	41	424	1.766	ug/l #	46
51) 4-Methyl-2-Pentanone	10.207	43	1218	2.707	ug/l	93
52) Toluene	10.384	92	6405	3.540	ug/l	100
59) 2-Hexanone	10.969	43	518	1.655	ug/l	70
67) Ethyl Benzene	11.725	91	7543	2.470	ug/l	93
68) m/p-Xylenes	11.835	106	11455	9.279	ug/l	99
69) o-Xylene	12.164	106	5055	4.367	ug/l	95
74) N-amyl acetate	12.237	43	791	1.515	ug/l #	46
76) 1,2,3-Trichloropropane	12.615	75	17286	59.960	ug/l #	100
78) n-propylbenzene	12.804	91	4034	1.562	ug/l	96
79) 2-Chlorotoluene	12.865	91	1519	1.018	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.938	105	5368	2.855	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.615	75	17286	141.045	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.249	105	18208	9.806	ug/l	100
85) sec-Butylbenzene	13.249	105	18208	7.529	ug/l #	55
93) 1,2,4-Trichlorobenzene	15.127	180	5376	7.956	ug/l #	86
95) Naphthalene	15.359	128	2933	2.342	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.554	180	1194	2.004	ug/l #	29

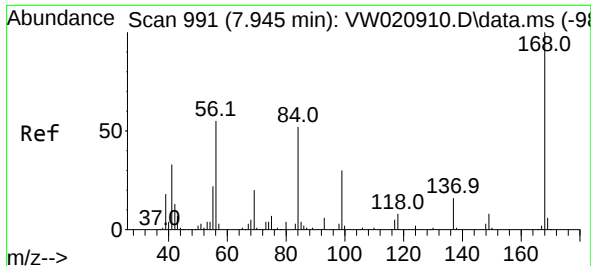
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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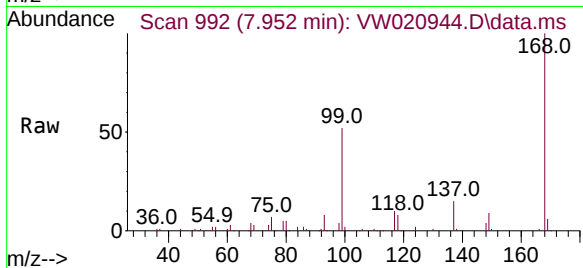
Quant Time: Nov 23 02:26:36 2021
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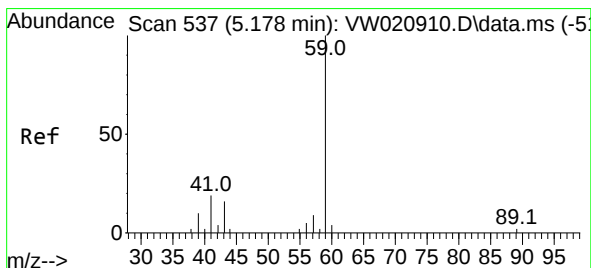
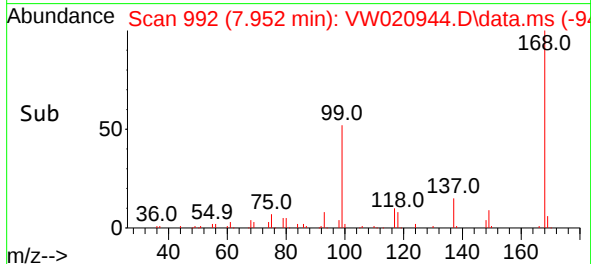
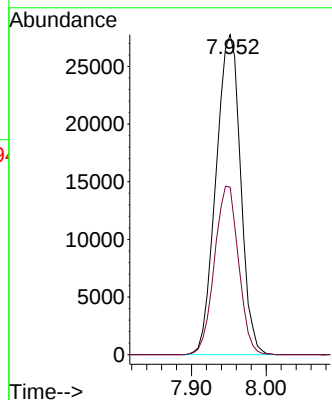


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.952 min Scan# 991
Delta R.T. 0.007 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

Instrument :
MSVOA_W
ClientSampleId :

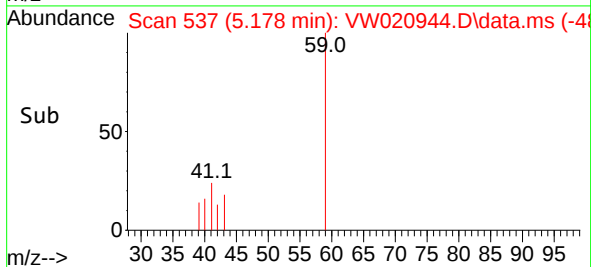
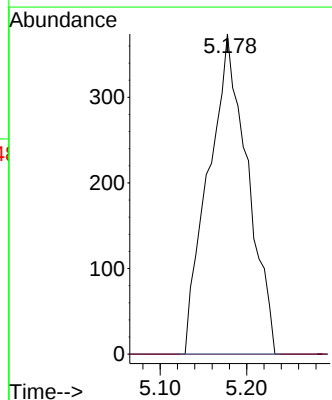
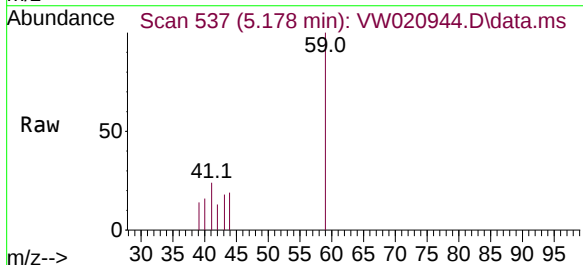


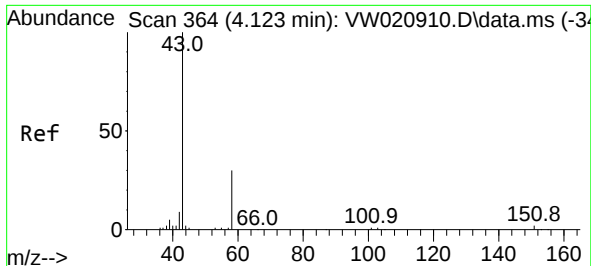
Tgt Ion:168 Resp: 63464
Ion Ratio Lower Upper
168 100
99 52.4 41.6 62.4



#11
Tert butyl alcohol
Concen: 22.629 ug/l
RT: 5.178 min Scan# 537
Delta R.T. -0.000 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

Tgt Ion: 59 Resp: 1172
Ion Ratio Lower Upper
59 100
57 0.0 4.3 6.5#

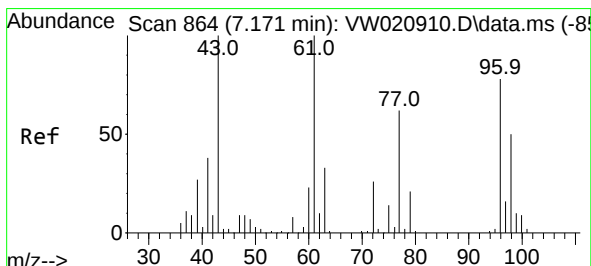
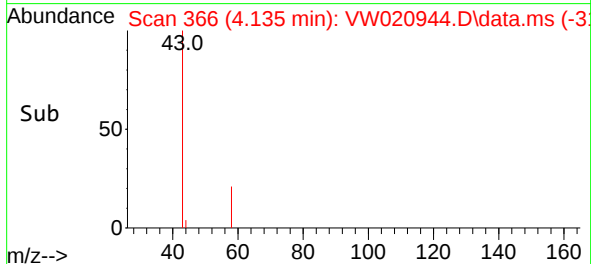
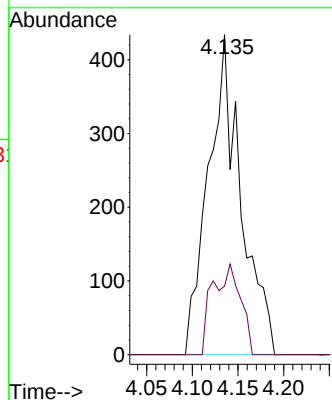
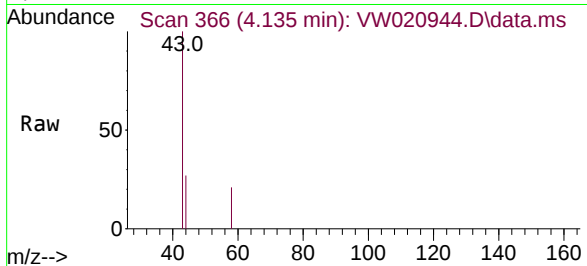




#16
Acetone
Concen: 8.781 ug/l
RT: 4.135 min Scan# 30
Delta R.T. 0.012 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

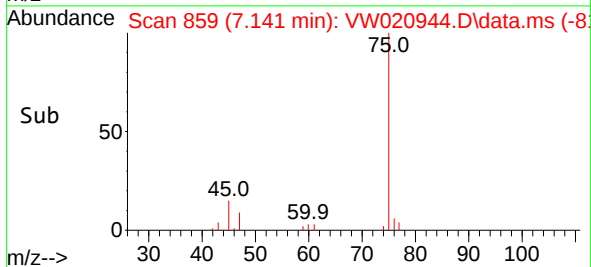
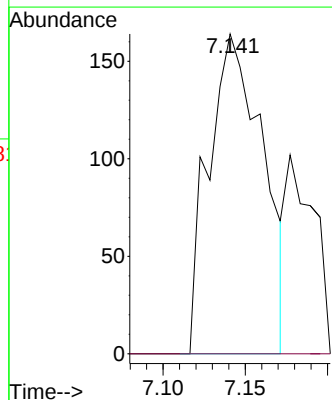
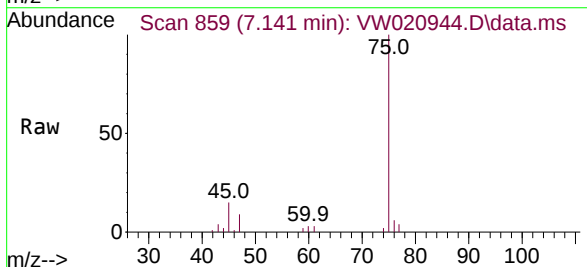
Instrument :
MSVOA_W
ClientSampleId :

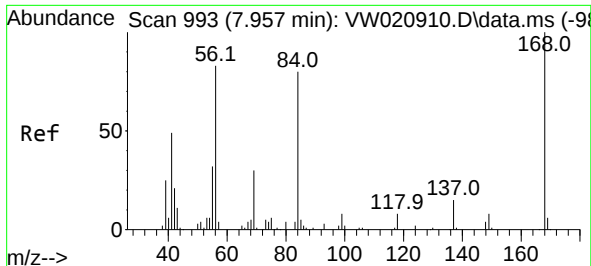
Tgt Ion: 43 Resp: 1073
Ion Ratio Lower Upper
43 100
58 21.4 24.2 36.2#



#25
2-Butanone
Concen: 2.178 ug/l
RT: 7.141 min Scan# 859
Delta R.T. -0.030 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

Tgt Ion: 43 Resp: 378
Ion Ratio Lower Upper
43 100
72 0.0 20.7 31.1#

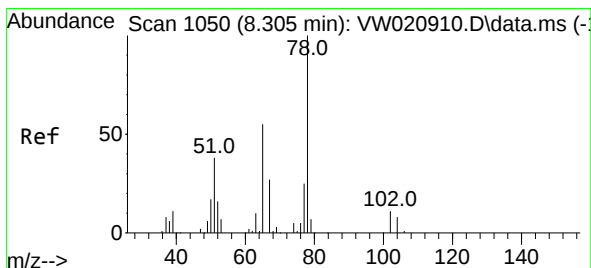
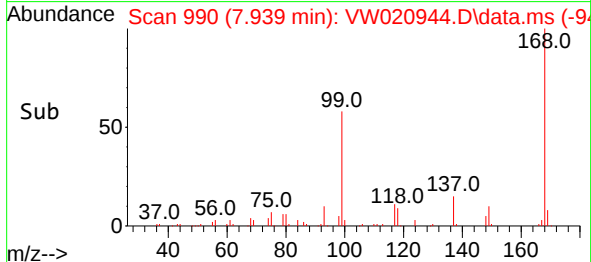
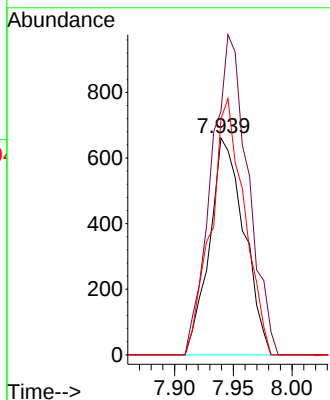
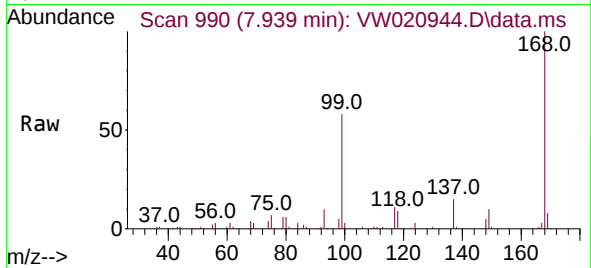




#31
Cyclohexane
Concen: 1.381 ug/l
RT: 7.939 min Scan# 993
Delta R.T. -0.018 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

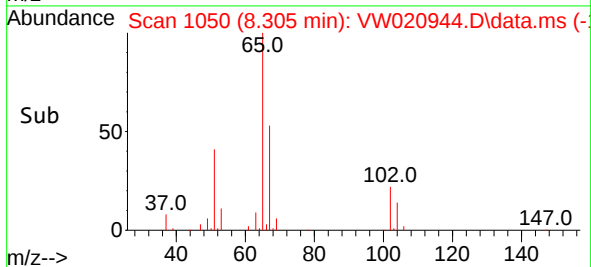
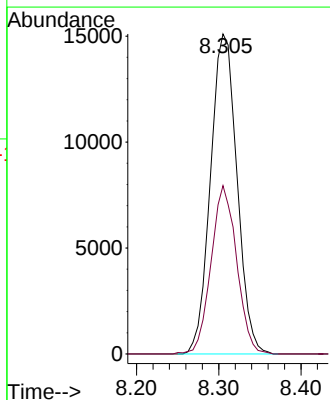
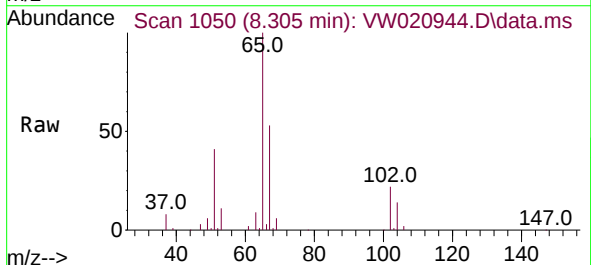
Instrument :
MSVOA_W
ClientSampleId :

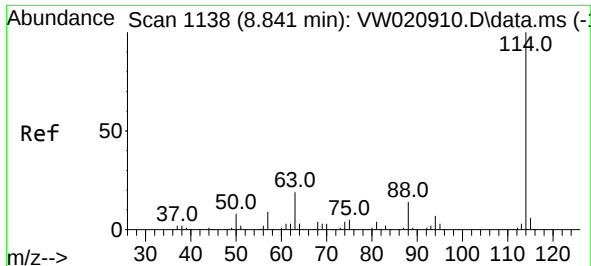
Tgt Ion: 56 Resp: 1354
Ion Ratio Lower Upper
56 100
69 112.3 28.7 43.1#
84 108.8 77.6 116.4



#33
1,2-Dichloroethane-d4
Concen: 57.508 ug/l
RT: 8.305 min Scan# 1050
Delta R.T. 0.000 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

Tgt Ion: 65 Resp: 33807
Ion Ratio Lower Upper
65 100
67 50.8 0.0 100.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.842 min Scan# 1138

Delta R.T. 0.000 min

Lab File: VW020944.D

Acq: 22 Nov 2021 18:13

Instrument :

MSVOA_W

ClientSampleId :

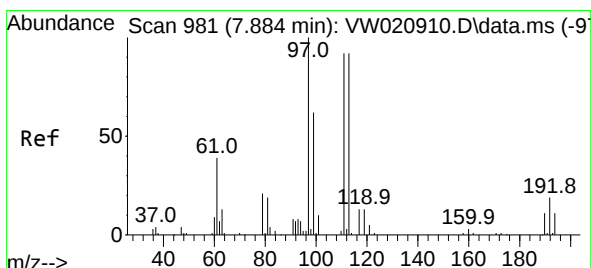
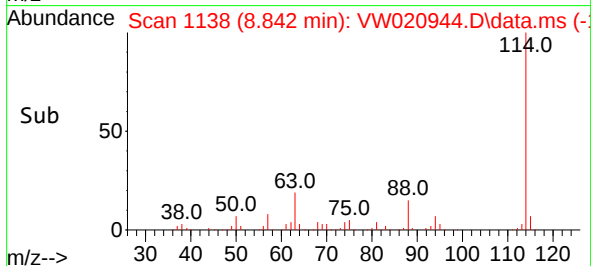
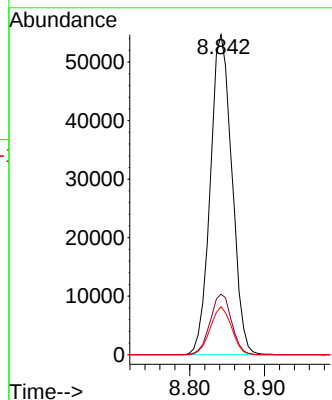
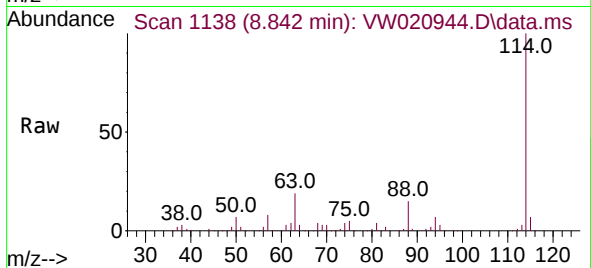
Tgt Ion:114 Resp: 109887

Ion Ratio Lower Upper

114 100

63 18.9 0.0 37.2

88 15.0 0.0 28.8



#35

Dibromofluoromethane

Concen: 48.254 ug/l

RT: 7.891 min Scan# 982

Delta R.T. 0.006 min

Lab File: VW020944.D

Acq: 22 Nov 2021 18:13

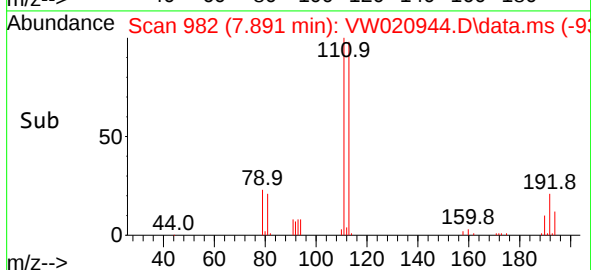
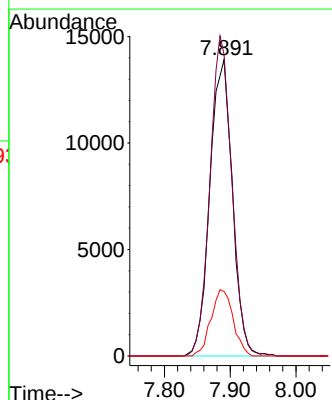
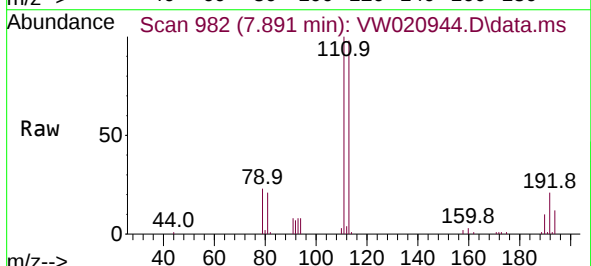
Tgt Ion:113 Resp: 33260

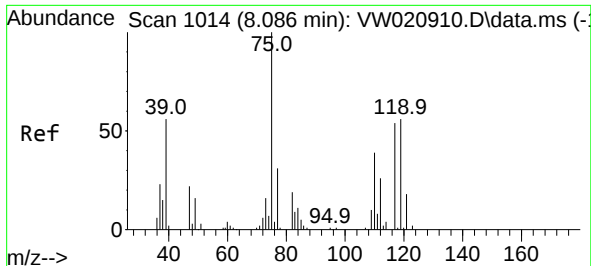
Ion Ratio Lower Upper

113 100

111 104.3 81.2 121.8

192 22.0 16.8 25.2

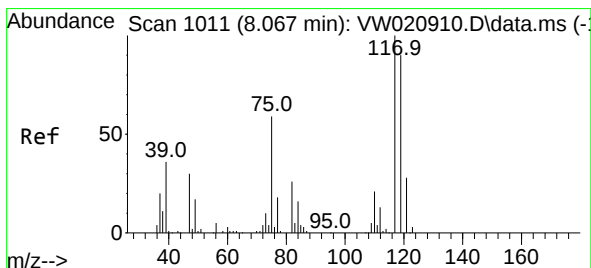
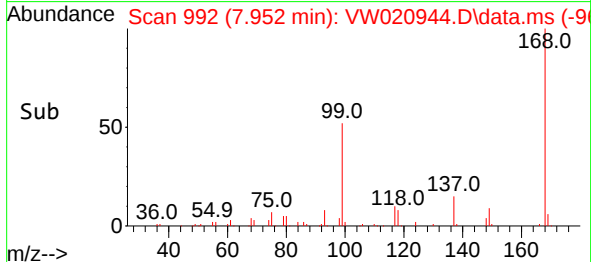
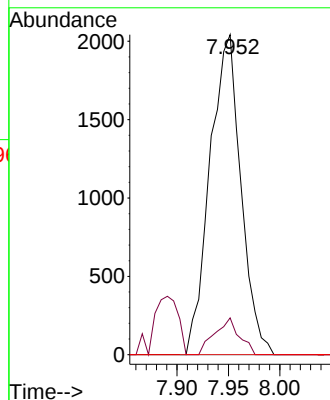
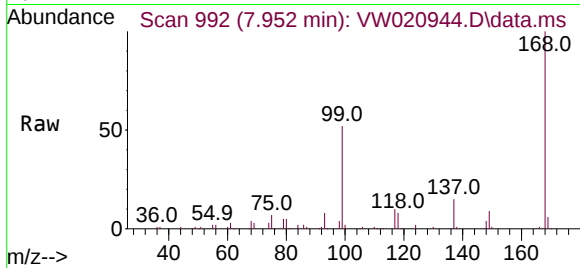




#36
1,1-Dichloropropene
Concen: 4.344 ug/l
RT: 7.952 min Scan# 992
Delta R.T. -0.134 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

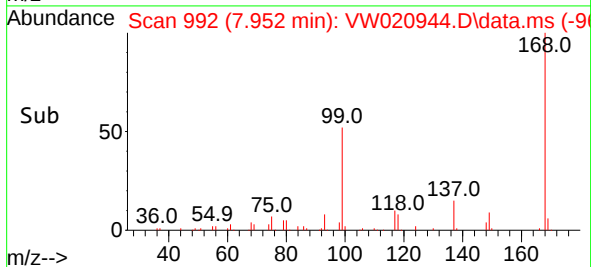
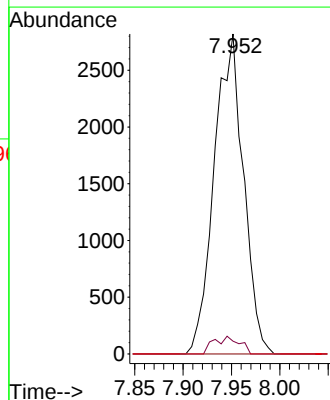
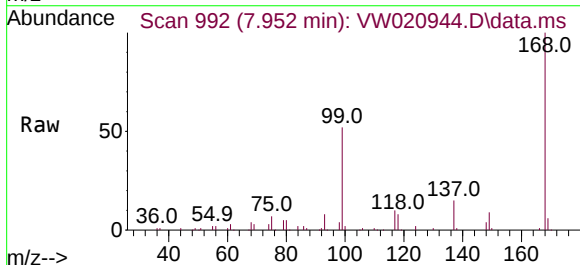
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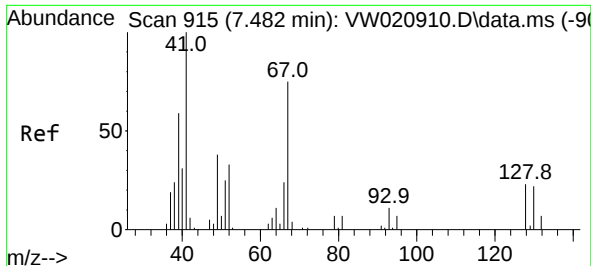
Tgt Ion: 75 Resp: 4288
Ion Ratio Lower Upper
75 100
110 9.1 19.1 57.5#
77 0.0 24.8 37.2#



#38
Carbon Tetrachloride
Concen: 5.646 ug/l
RT: 7.952 min Scan# 992
Delta R.T. -0.116 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

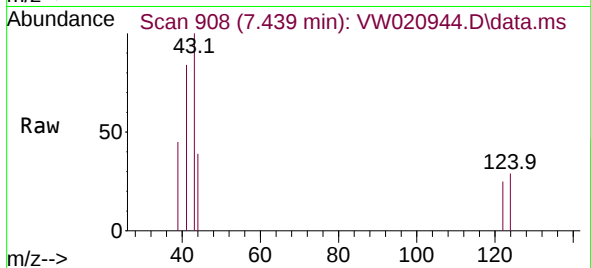
Tgt Ion: 117 Resp: 5929
Ion Ratio Lower Upper
117 100
119 4.0 72.0 108.0#
121 0.0 22.6 33.8#



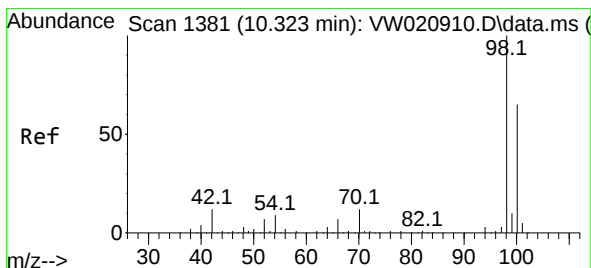
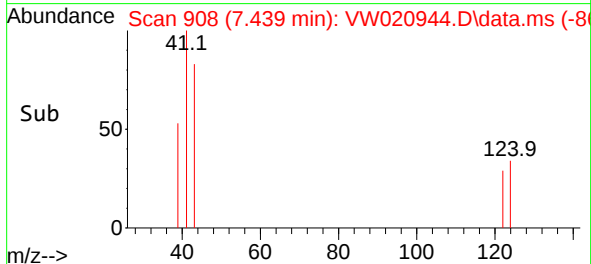
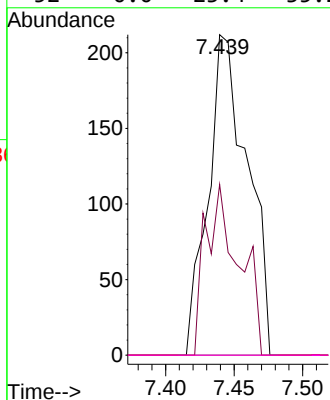


#41
Methacrylonitrile
Concen: 1.766 ug/l
RT: 7.439 min Scan# 908
Delta R.T. -0.043 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

Instrument :
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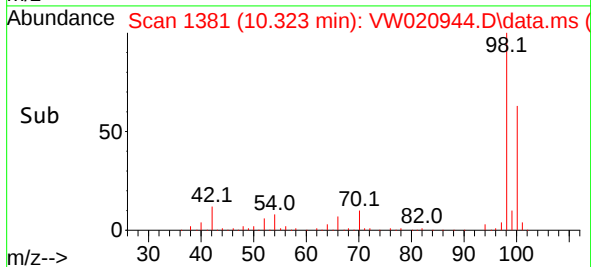
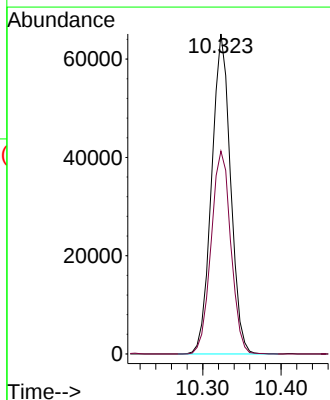
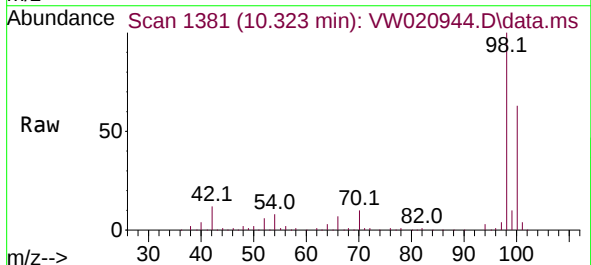


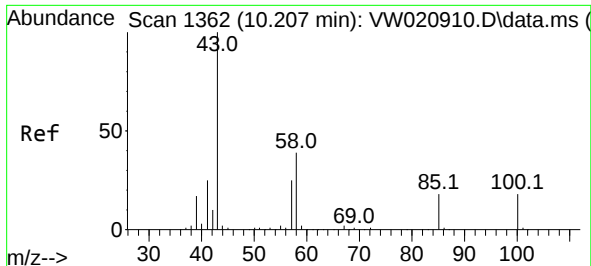
Tgt Ion: 41	Resp: 424
Ion Ratio	Lower Upper
41 100	
39 45.8	42.9 64.3
67 0.0	56.2 84.4#
52 0.0	23.4 35.2#



#50
Toluene-d8
Concen: 43.281 ug/l
RT: 10.323 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

Tgt Ion: 98	Resp: 109412
Ion Ratio	Lower Upper
98 100	
100 65.9	52.6 79.0





#51

4-Methyl-2-Pentanone

Concen: 2.707 ug/l

RT: 10.207 min Scan# 1362

Delta R.T. 0.000 min

Lab File: VW020944.D

Acq: 22 Nov 2021 18:13

Instrument :

MSVOA_W

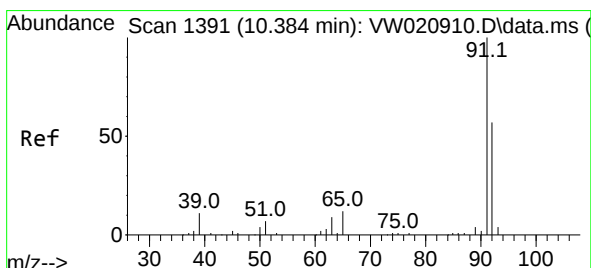
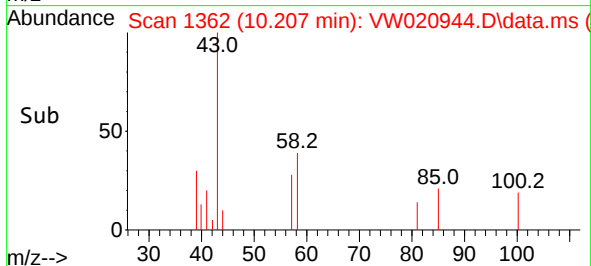
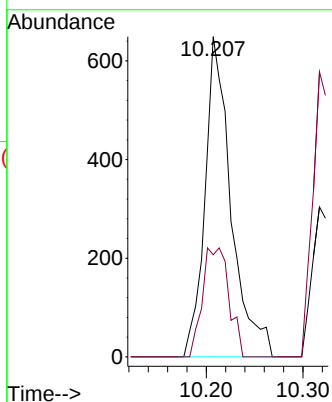
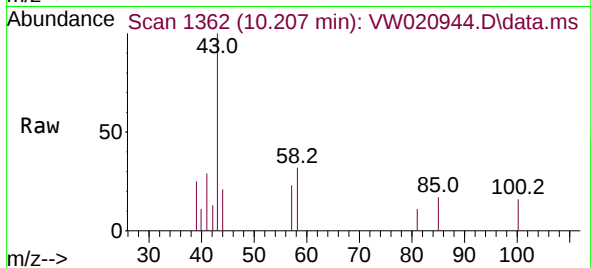
ClientSampleId :

Tgt Ion: 43 Resp: 1218

Ion Ratio Lower Upper

43 100

58 34.6 30.9 46.3



#52

Toluene

Concen: 3.540 ug/l

RT: 10.384 min Scan# 1391

Delta R.T. 0.000 min

Lab File: VW020944.D

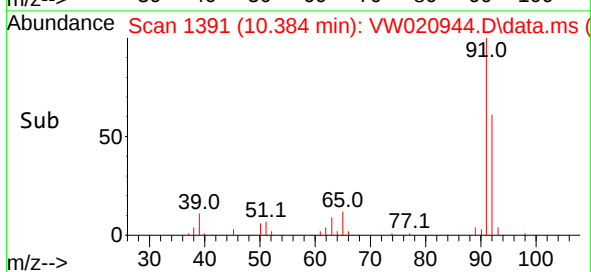
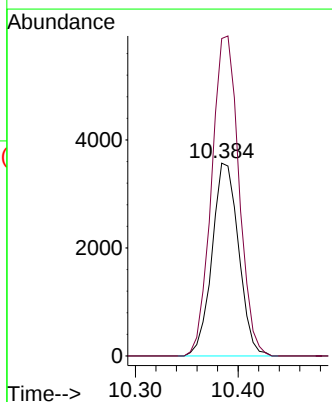
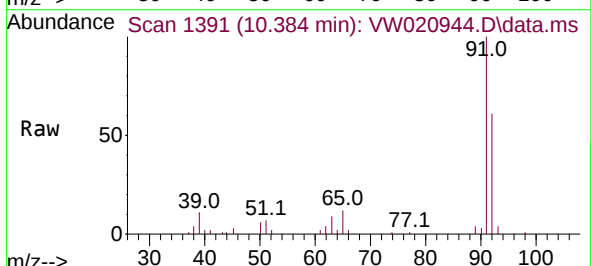
Acq: 22 Nov 2021 18:13

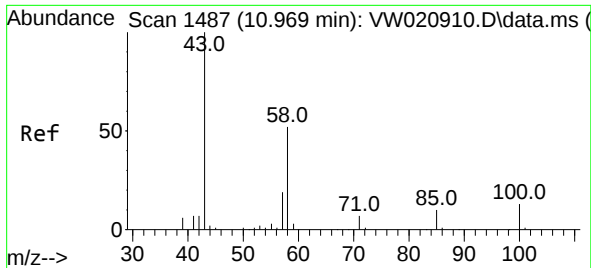
Tgt Ion: 92 Resp: 6405

Ion Ratio Lower Upper

92 100

91 170.7 137.1 205.7

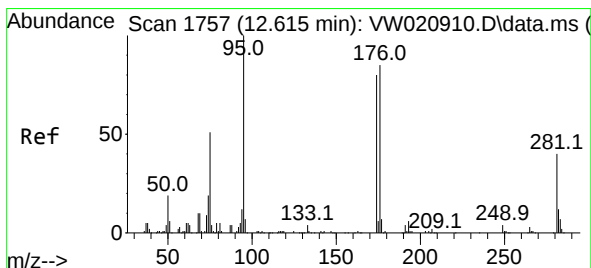
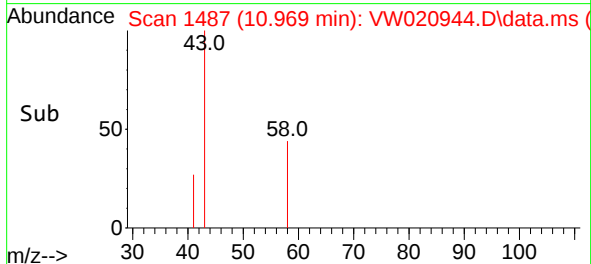
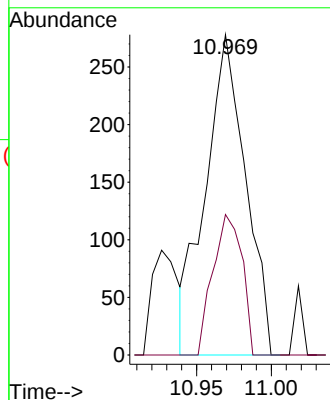
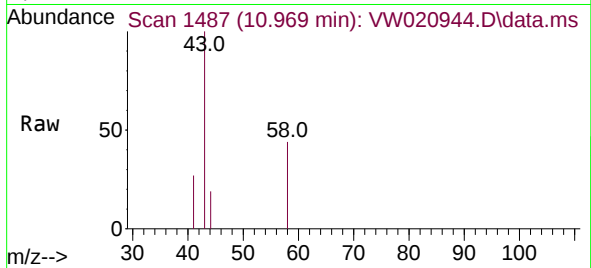




#59
2-Hexanone
Concen: 1.655 ug/l
RT: 10.969 min Scan# 1487
Delta R.T. 0.000 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

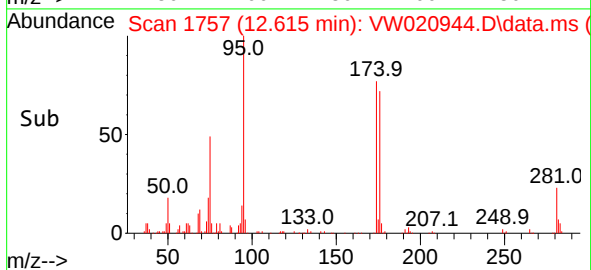
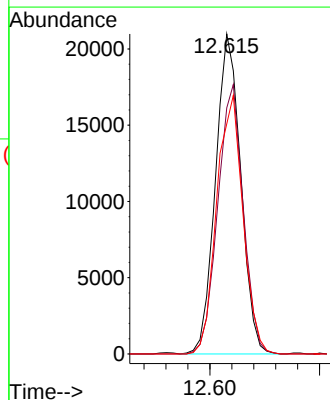
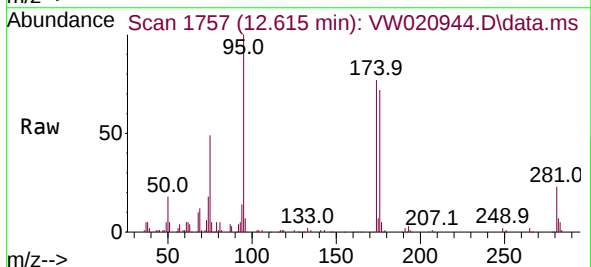
Instrument :
MSVOA_W
ClientSampleId :

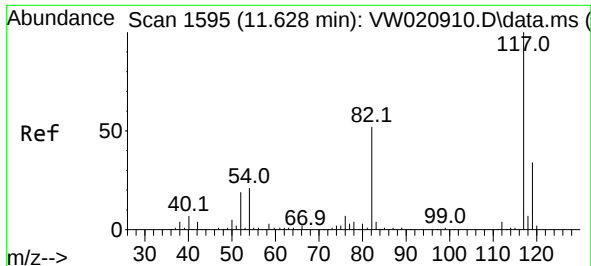
Tgt Ion: 43 Resp: 518
Ion Ratio Lower Upper
43 100
58 31.9 26.7 80.0



#62
4-Bromofluorobenzene
Concen: 35.569 ug/l
RT: 12.615 min Scan# 1757
Delta R.T. 0.000 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

Tgt Ion: 95 Resp: 33534
Ion Ratio Lower Upper
95 100
174 84.7 0.0 171.2
176 84.0 0.0 175.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.628 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW020944.D

Acq: 22 Nov 2021 18:13

Instrument :

MSVOA_W

ClientSampleId :

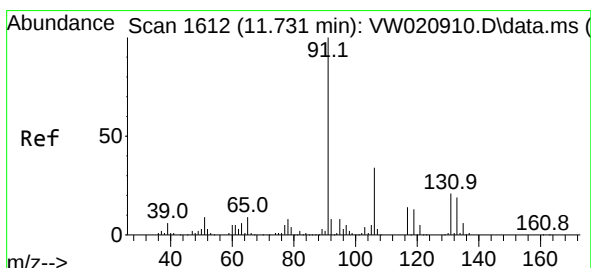
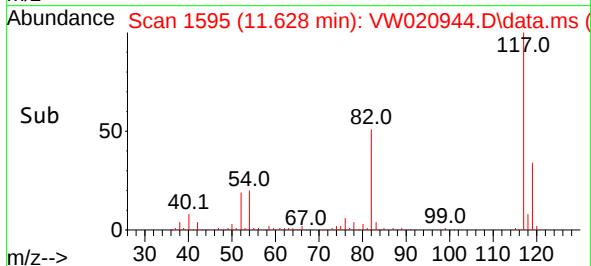
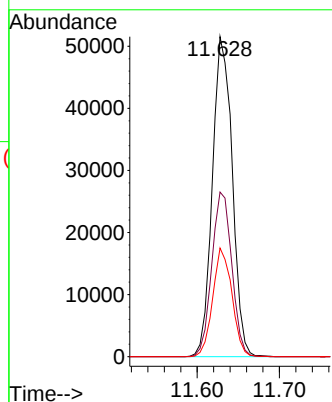
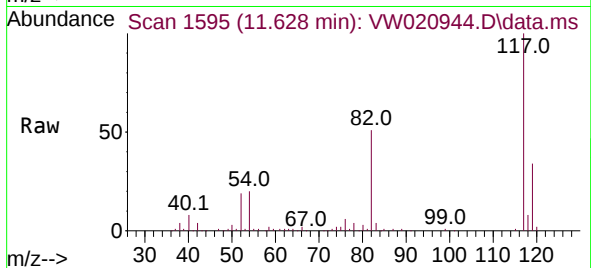
Tgt Ion:117 Resp: 86545

Ion Ratio Lower Upper

117 100

82 51.5 41.4 62.2

119 33.9 27.2 40.8



#67

Ethyl Benzene

Concen: 2.470 ug/l

RT: 11.725 min Scan# 1611

Delta R.T. -0.006 min

Lab File: VW020944.D

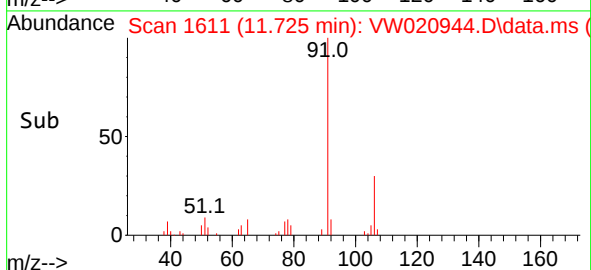
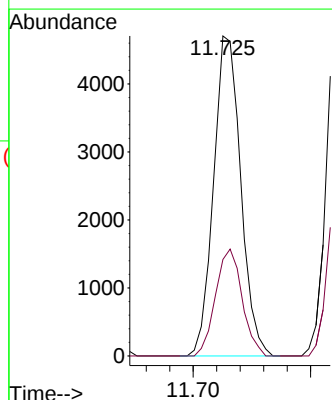
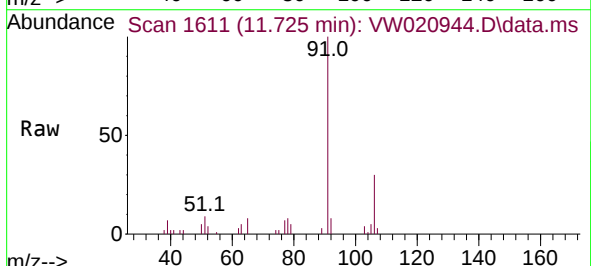
Acq: 22 Nov 2021 18:13

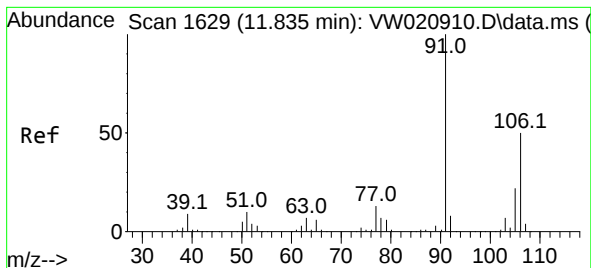
Tgt Ion: 91 Resp: 7543

Ion Ratio Lower Upper

91 100

106 30.2 27.3 40.9





#68

m/p-Xylenes

Concen: 9.279 ug/l

RT: 11.835 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW020944.D

Acq: 22 Nov 2021 18:13

Instrument :

MSVOA_W

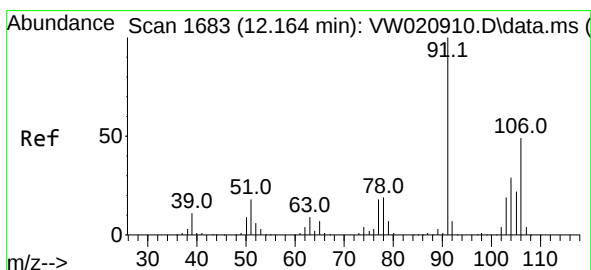
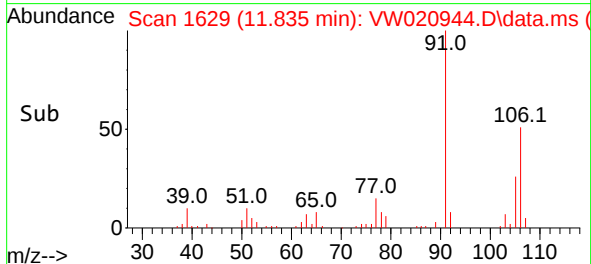
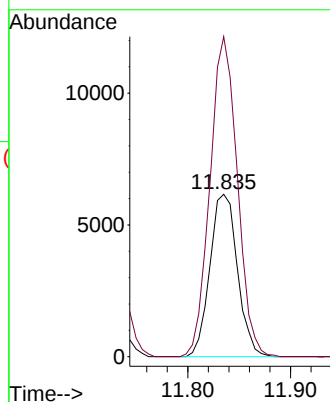
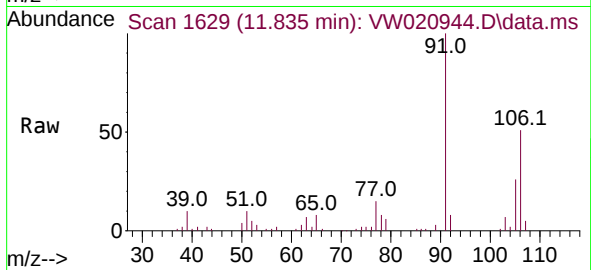
ClientSampleId :

Tgt Ion:106 Resp: 11455

Ion Ratio Lower Upper

106 100

91 196.1 157.8 236.8



#69

o-Xylene

Concen: 4.367 ug/l

RT: 12.164 min Scan# 1683

Delta R.T. 0.000 min

Lab File: VW020944.D

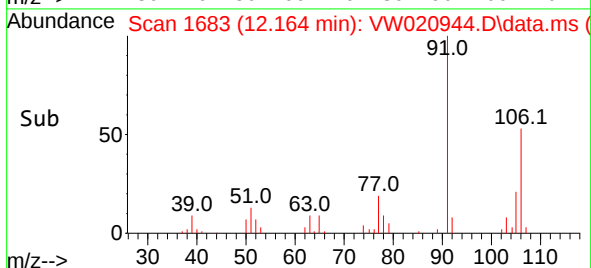
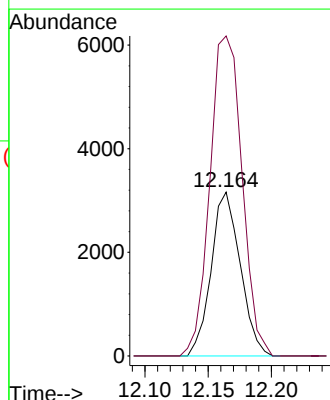
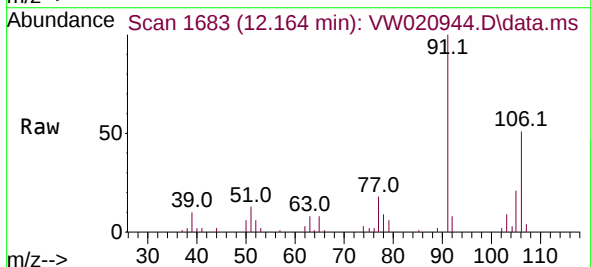
Acq: 22 Nov 2021 18:13

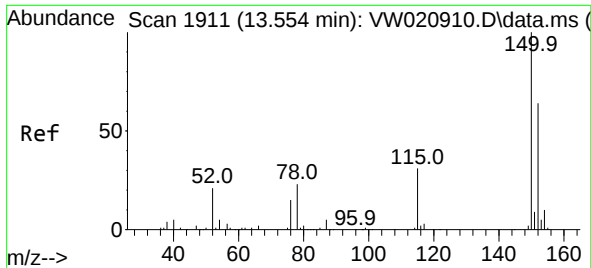
Tgt Ion:106 Resp: 5055

Ion Ratio Lower Upper

106 100

91 215.8 104.3 312.9

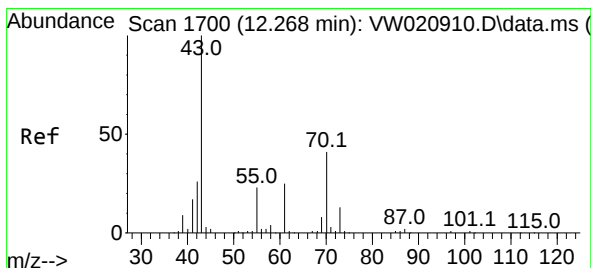
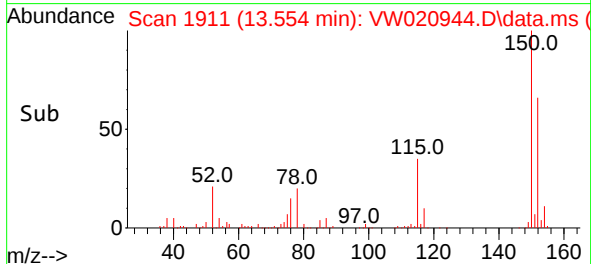
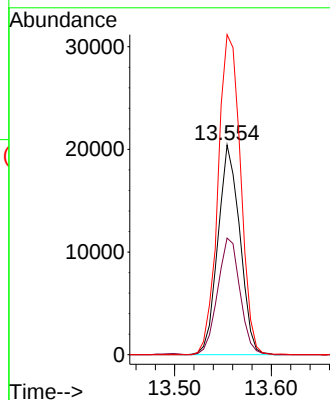
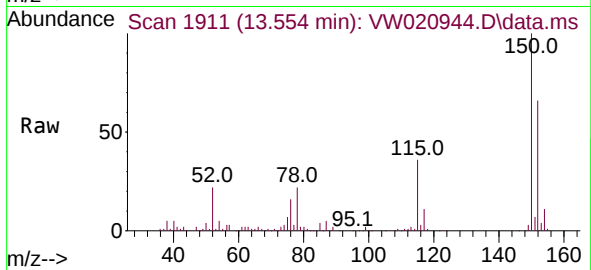




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.554 min Scan# 1911
Delta R.T. 0.000 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

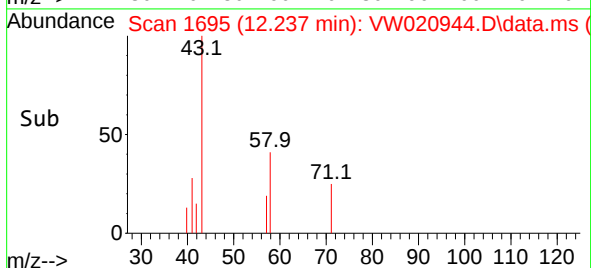
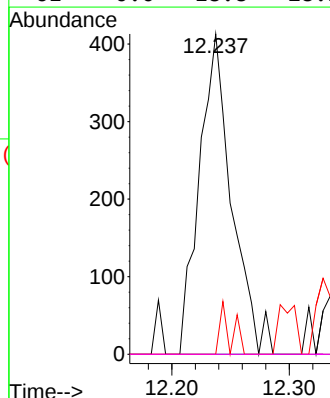
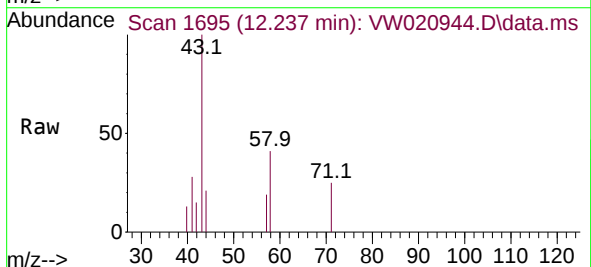
Instrument :
MSVOA_W
ClientSampleId :

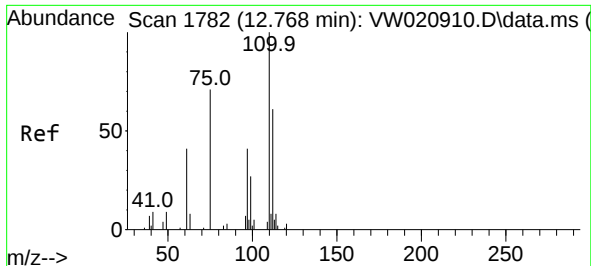
Tgt Ion:152 Resp: 32087
Ion Ratio Lower Upper
152 100
115 56.9 27.8 83.3
150 157.4 0.0 348.4



#74
N-ethyl acetate
Concen: 1.515 ug/l
RT: 12.237 min Scan# 1695
Delta R.T. -0.030 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

Tgt Ion: 43 Resp: 791
Ion Ratio Lower Upper
43 100
70 0.0 33.7 50.5#
55 5.6 18.5 27.7#
61 0.0 18.8 28.2#

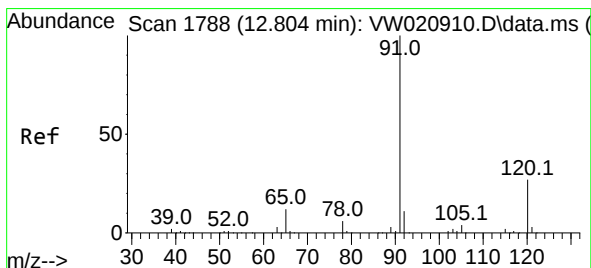
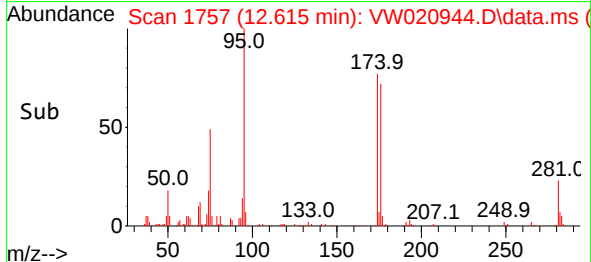
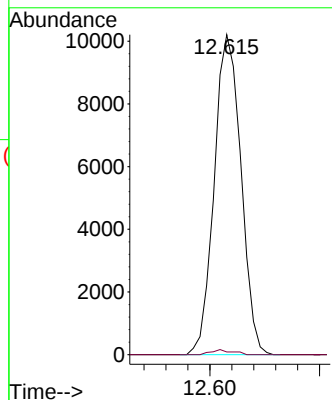
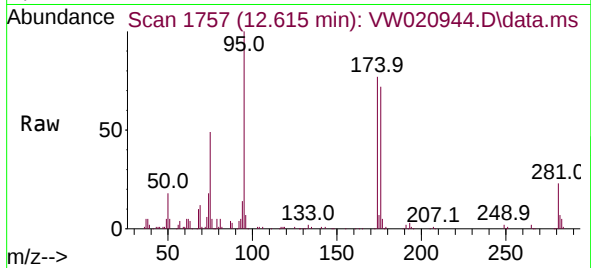




#76
1,2,3-Trichloropropane
Concen: 59.960 ug/l
RT: 12.615 min Scan# 1757
Delta R.T. -0.152 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

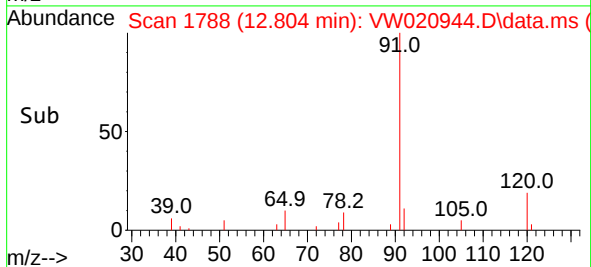
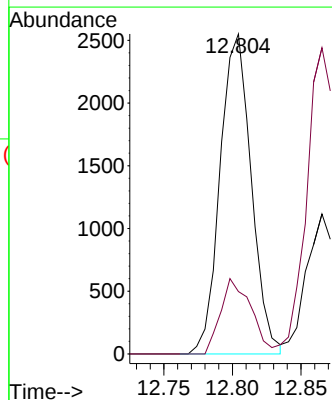
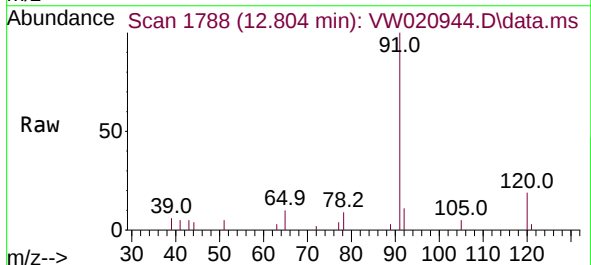
Instrument :
MSVOA_W
ClientSampleId :

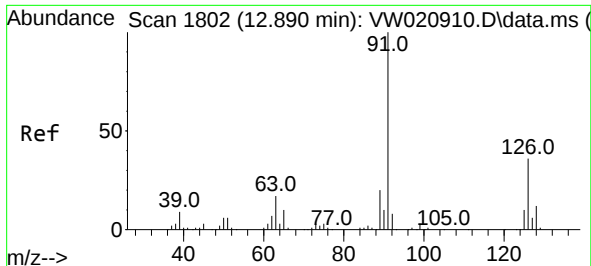
Tgt Ion: 75 Resp: 17286
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#78
n-propylbenzene
Concen: 1.562 ug/l
RT: 12.804 min Scan# 1788
Delta R.T. 0.000 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

Tgt Ion: 91 Resp: 4034
Ion Ratio Lower Upper
91 100
120 22.9 12.4 37.4

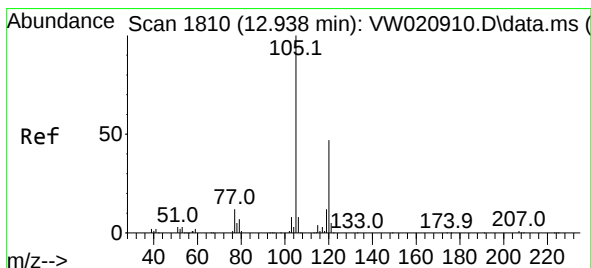
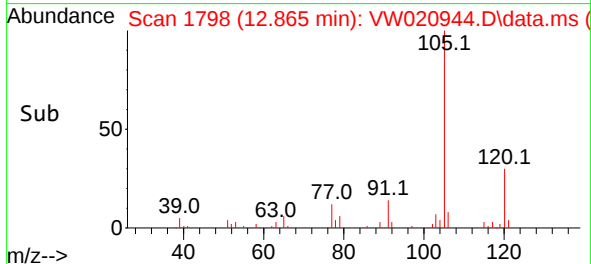
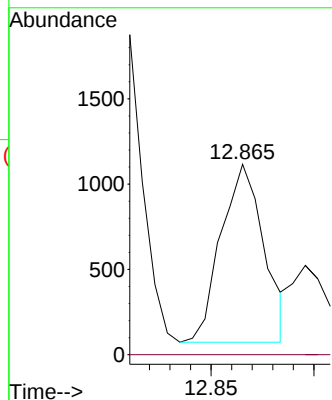
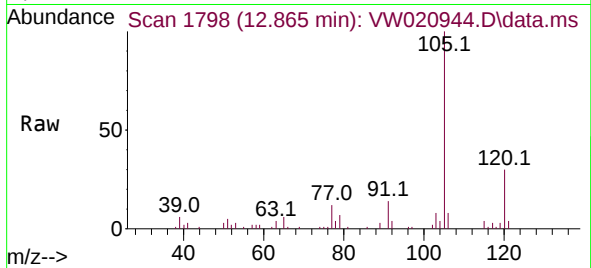




#79
2-Chlorotoluene
Concen: 1.018 ug/l
RT: 12.865 min Scan# 11
Delta R.T. -0.024 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

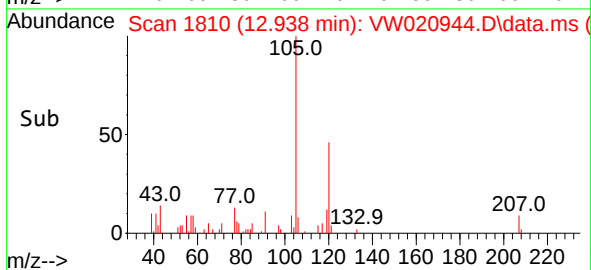
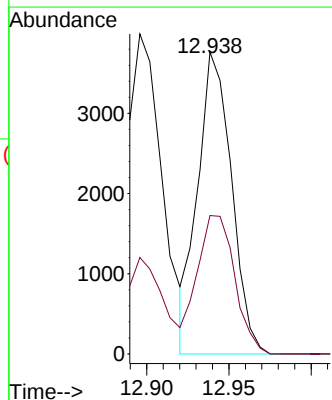
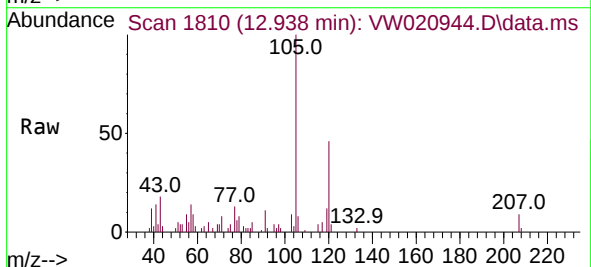
Instrument :
MSVOA_W
ClientSampleId :

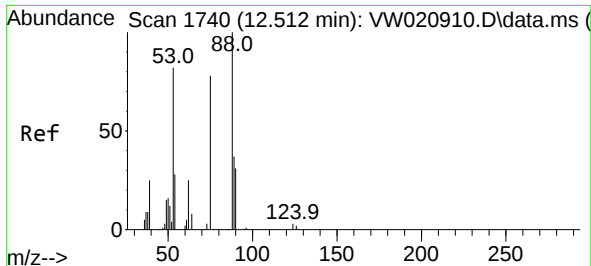
Tgt Ion: 91 Resp: 1519
Ion Ratio Lower Upper
91 100
126 0.0 18.0 54.0#



#80
1,3,5-Trimethylbenzene
Concen: 2.855 ug/l
RT: 12.938 min Scan# 1810
Delta R.T. 0.000 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

Tgt Ion:105 Resp: 5368
Ion Ratio Lower Upper
105 100
120 51.1 24.7 74.1

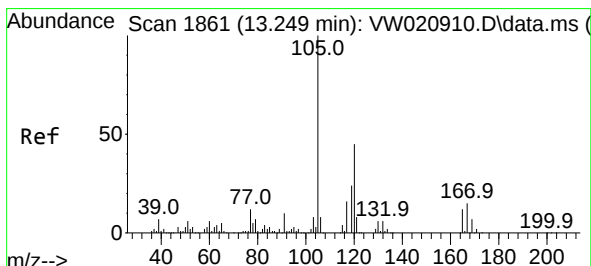
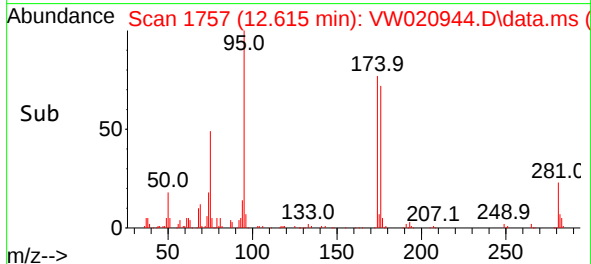
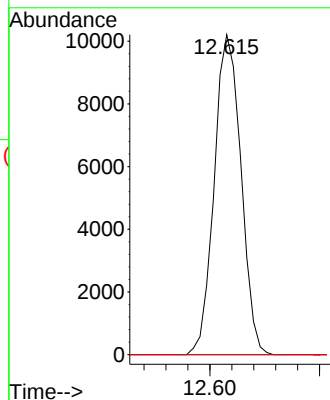
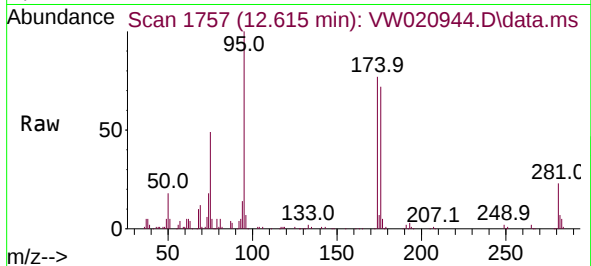




#81
trans-1,4-Dichloro-2-butene
Concen: 141.045 ug/l
RT: 12.615 min Scan# 1757
Delta R.T. 0.104 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

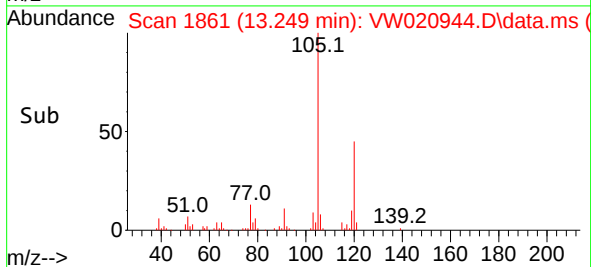
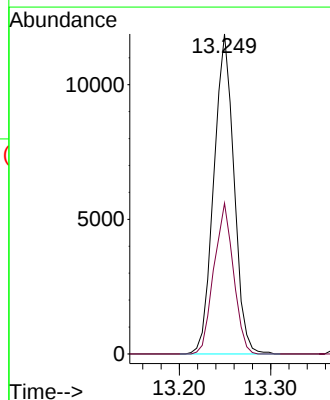
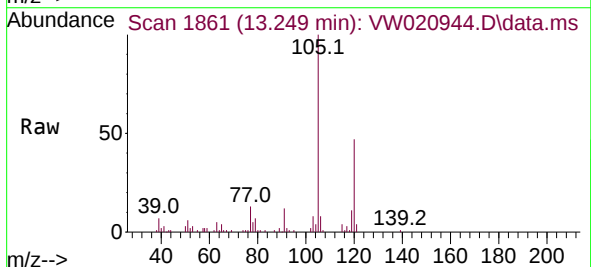
Instrument :
MSVOA_W
ClientSampleId :

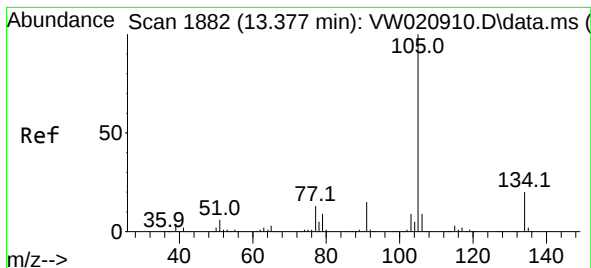
Tgt Ion: 75 Resp: 17286
Ion Ratio Lower Upper
75 100
53 0.0 81.8 122.8#
89 0.0 38.6 57.8#



#84
1,2,4-Trimethylbenzene
Concen: 9.806 ug/l
RT: 13.249 min Scan# 1861
Delta R.T. 0.000 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

Tgt Ion: 105 Resp: 18208
Ion Ratio Lower Upper
105 100
120 45.6 22.7 68.1





#85

sec-Butylbenzene

Concen: 7.529 ug/l

RT: 13.249 min Scan# 1882

Delta R.T. -0.128 min

Lab File: VW020944.D

Acq: 22 Nov 2021 18:13

Instrument :

MSVOA_W

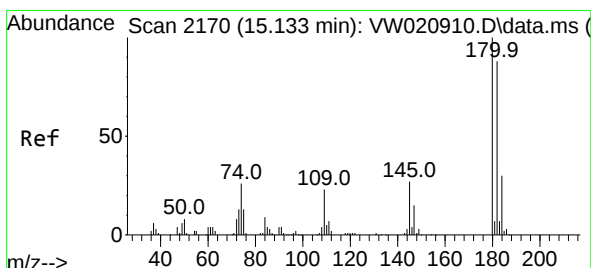
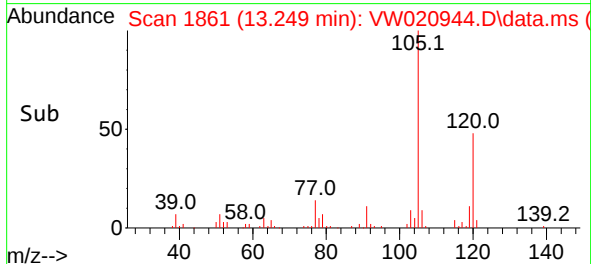
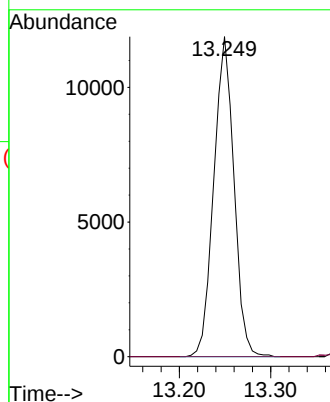
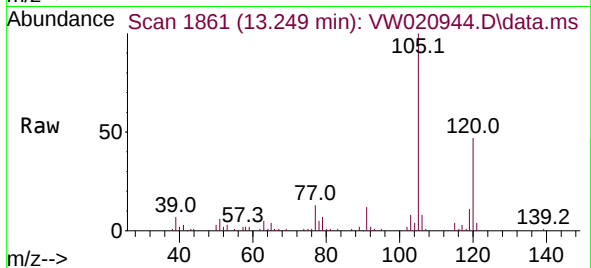
ClientSampleId :

Tgt Ion:105 Resp: 18208

Ion Ratio Lower Upper

105 100

134 0.0 10.4 31.4#



#93

1,2,4-Trichlorobenzene

Concen: 7.956 ug/l

RT: 15.127 min Scan# 2169

Delta R.T. -0.006 min

Lab File: VW020944.D

Acq: 22 Nov 2021 18:13

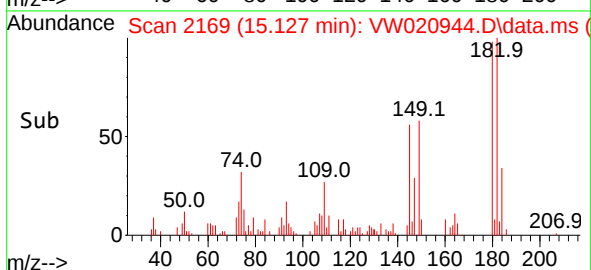
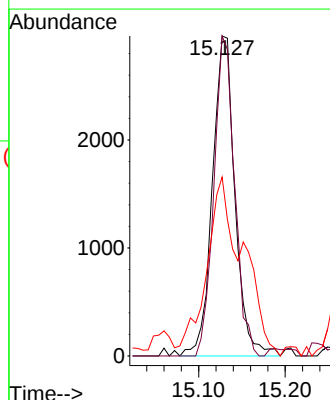
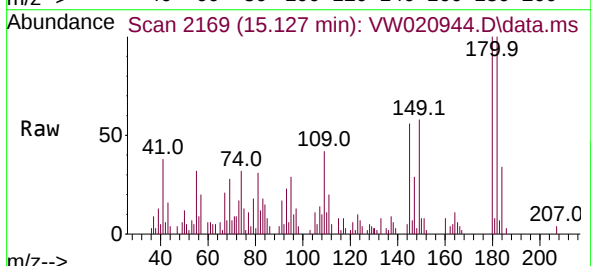
Tgt Ion:180 Resp: 5376

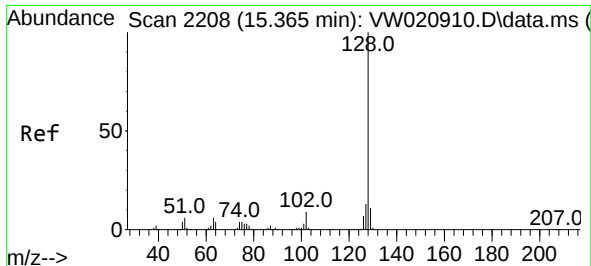
Ion Ratio Lower Upper

180 100

182 91.5 46.5 139.3

145 58.9 15.0 45.1#

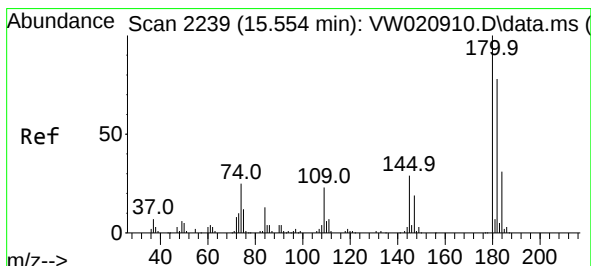
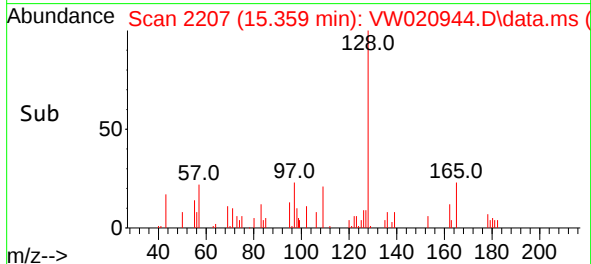
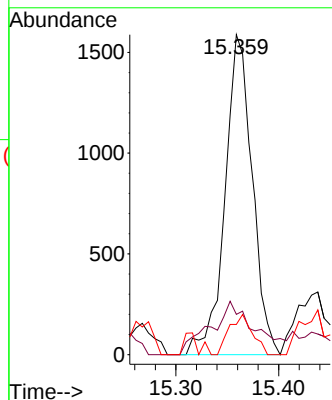
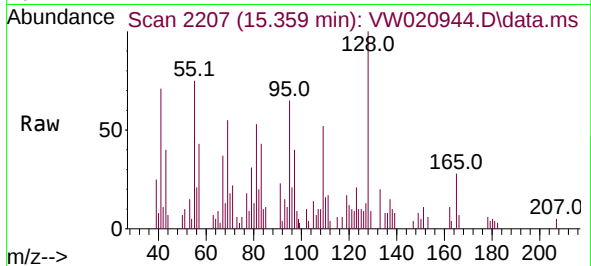




#95
Naphthalene
Concen: 2.342 ug/l
RT: 15.359 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion:128 Resp: 2933
Ion Ratio Lower Upper
128 100
127 27.7 10.6 16.0#
129 10.7 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 2.004 ug/l
RT: 15.554 min Scan# 2239
Delta R.T. 0.000 min
Lab File: VW020944.D
Acq: 22 Nov 2021 18:13

Tgt Ion:180 Resp: 1194
Ion Ratio Lower Upper
180 100
182 104.5 46.2 138.6
145 165.9 14.9 44.5#

