

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW122318\
 Data File : VW007813.D
 Acq On : 21 Dec 2018 23:18
 Operator : SY/AP
 Sample : J6377-14RE
 Misc : 4.23G/5ML/MSVOA W/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

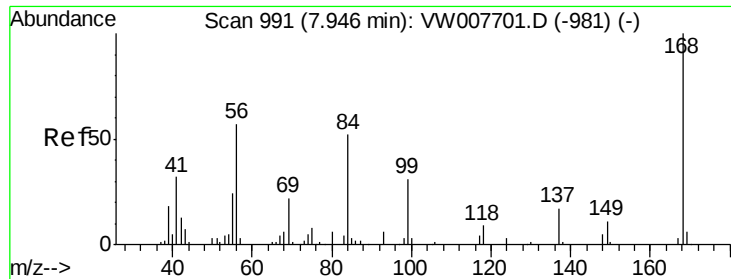
Quant Time: Dec 21 23:51:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W122118S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 06:30:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	70065	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	113949	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	83114	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	27718	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	37742	49.15	ug/l	0.00
Spiked Amount			Recovery	=	98.30%	
35) Dibromofluoromethane	7.88	113	30235	43.49	ug/l	0.00
Spiked Amount			Recovery	=	86.98%	
50) Toluene-d8	10.32	98	103399	39.46	ug/l	0.00
Spiked Amount			Recovery	=	78.92%	
62) 4-Bromofluorobenzene	12.62	95	28435	28.09	ug/l	0.00
Spiked Amount			Recovery	=	56.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.13	59	115	2.220	ug/l #	73
16) Acetone	4.12	43	9922	68.996	ug/l	96
20) Methylene Chloride	4.91	84	1053	Below Cal		93
25) 2-Butanone	7.18	43	5076	30.136	ug/l	94
31) Cyclohexane	7.95	56	3272	2.862	ug/l #	63
36) 1,1-Dichloropropene	7.94	75	5544	5.041	ug/l #	49
37) Ethyl Acetate	7.26	43	529	1.394	ug/l #	68
38) Carbon Tetrachloride	7.95	117	7404	5.716	ug/l #	15
39) Methylcyclohexane	9.33	83	4814	3.523	ug/l	95
40) Benzene	8.32	78	13664	4.656	ug/l	94
48) Methyl methacrylate	9.33	41	2069	5.451	ug/l #	73
52) Toluene	10.38	92	5866	2.979	ug/l	97
65) Chlorobenzene	11.66	112	11319	6.292	ug/l	97
67) Ethyl Benzene	11.84	91	600716	194.597	ug/l #	73
68) m/p-Xylenes	11.84	106	288037	240.535	ug/l	99
69) o-Xylene	12.17	106	1211	1.079	ug/l	95
73) Isopropylbenzene	12.47	105	2175	1.038	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	14697	68.602	ug/l #	100
79) 2-Chlorotoluene	12.87	91	1493	1.051	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.94	105	6711	3.713	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.62	75	14697	144.002	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.26	105	18975	10.405	ug/l	100
85) sec-Butylbenzene	13.26	105	18975	8.683	ug/l #	56
87) 1,3-Dichlorobenzene	13.50	146	2031	2.130	ug/l	100
88) 1,4-Dichlorobenzene	13.58	146	12943	13.572	ug/l	100
95) Naphthalene	15.37	128	7544	6.887	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW007813.D

Acq: 21 Dec 2018 23:18

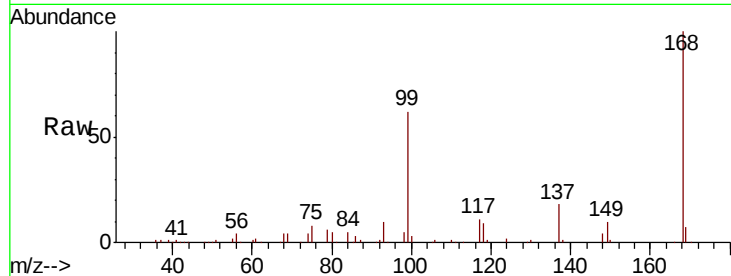
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 70065

Ion Ratio Lower Upper

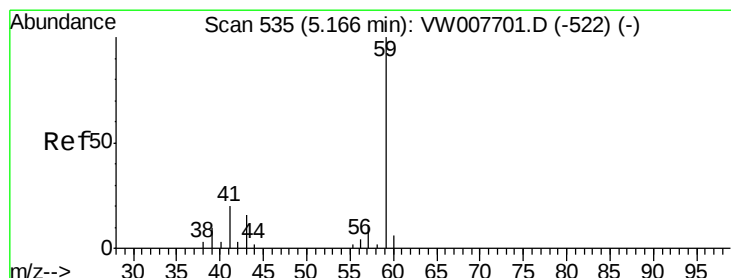
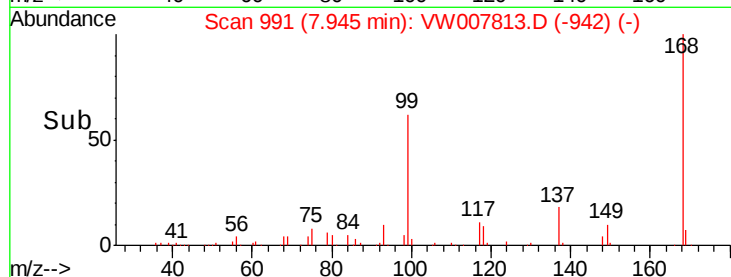
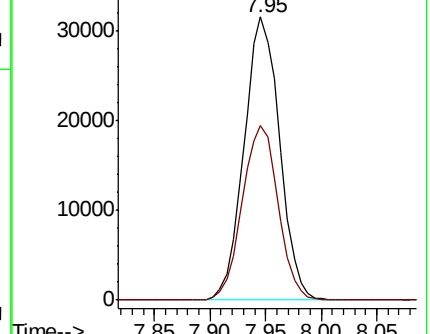
168 100

99 61.7 54.0 81.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 2.220 ug/l

RT: 5.13 min Scan# 530

Delta R.T. -0.03 min

Lab File: VW007813.D

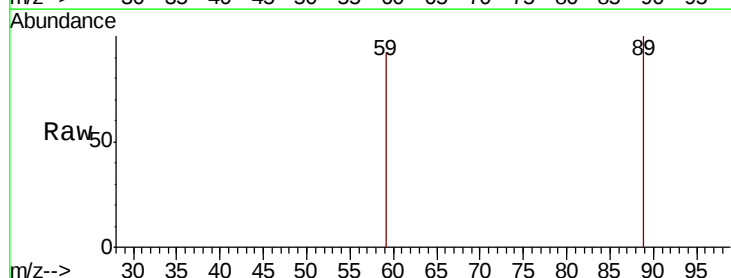
Acq: 21 Dec 2018 23:18

Tgt Ion: 59 Resp: 115

Ion Ratio Lower Upper

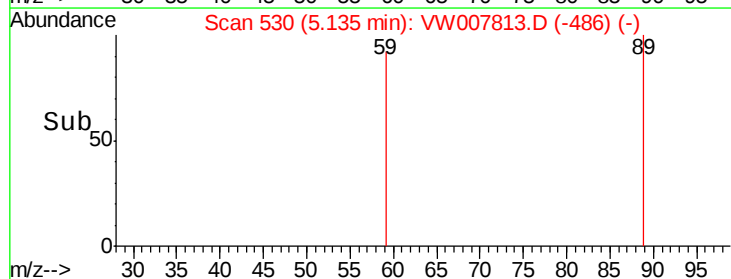
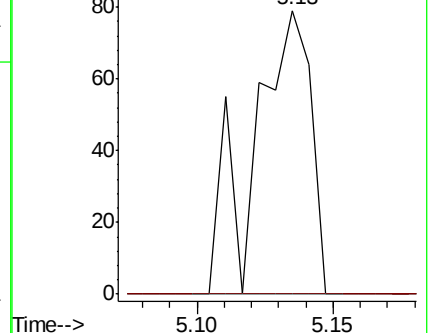
59 100

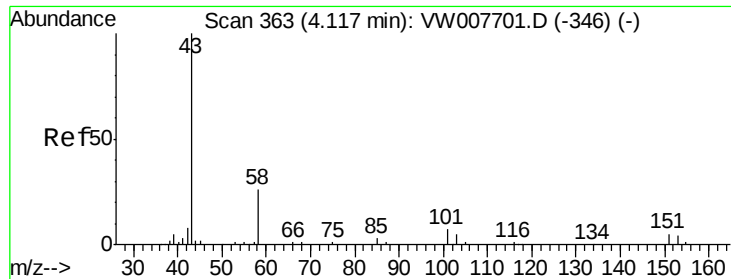
57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 68.996 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW007813.D

Acq: 21 Dec 2018 23:18

Instrument :

MSVOA_W

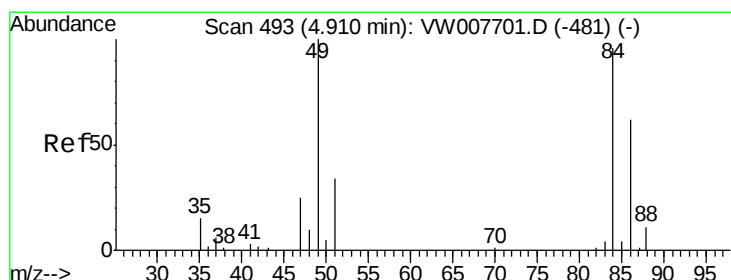
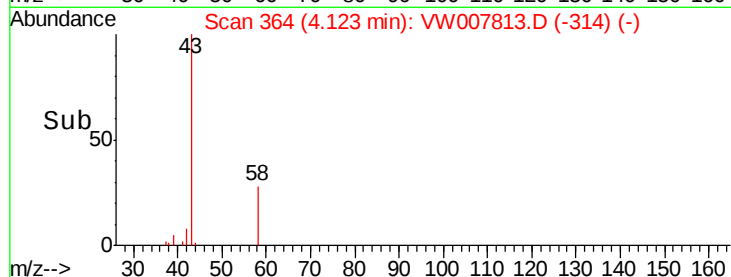
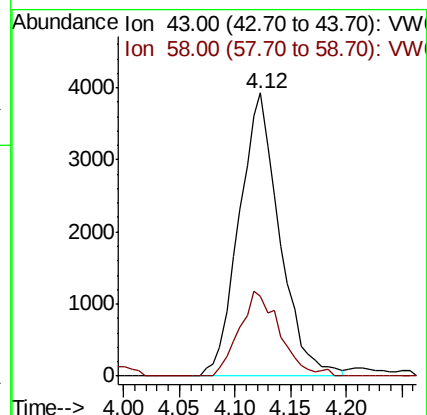
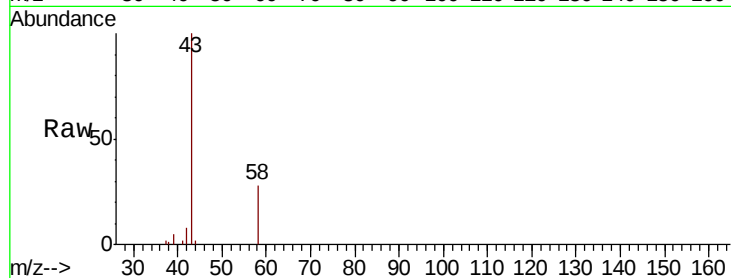
ClientSampleId :

Tot Ion: 43 Resp: 9922

Ion Ratio Lower Upper

43 100

58 28.4 21.2 31.8



#20

Methylene Chloride

Concen: Below Cal

RT: 4.91 min Scan# 493

Delta R.T. 0.00 min

Lab File: VW007813.D

Acq: 21 Dec 2018 23:18

Tgt Ion: 84 Resp: 1053

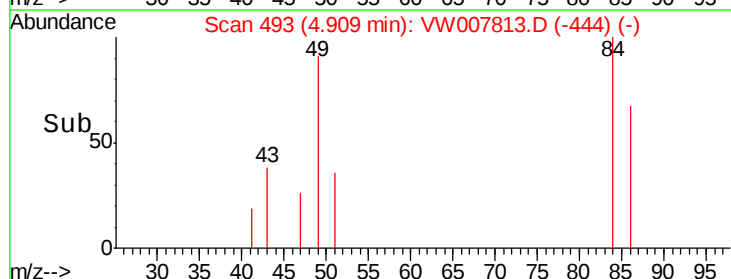
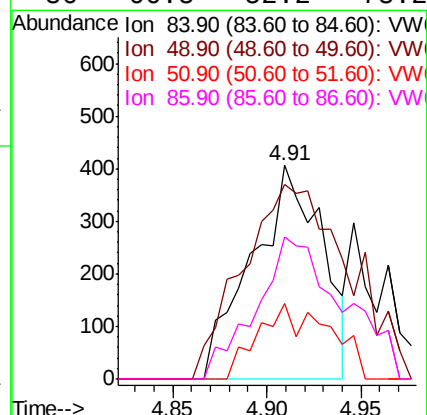
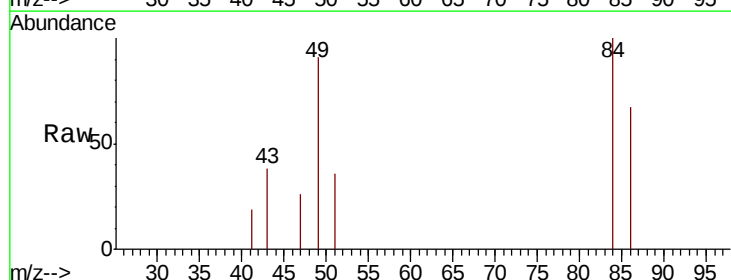
Ion Ratio Lower Upper

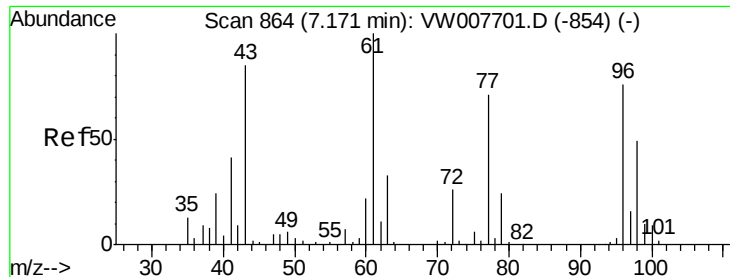
84 100

49 90.9 83.7 125.5

51 35.7 28.2 42.2

86 66.5 52.2 78.2

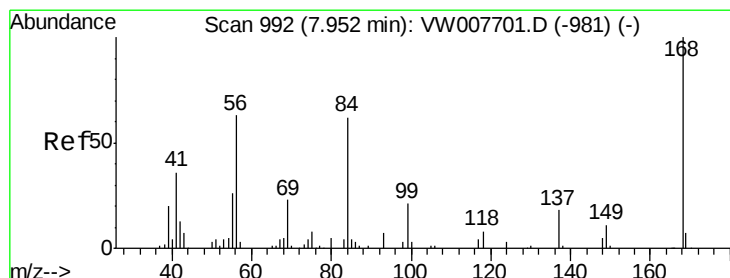
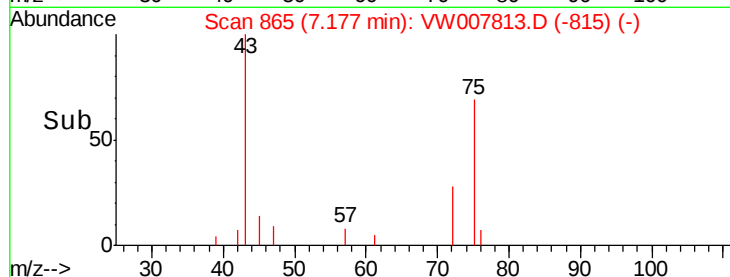
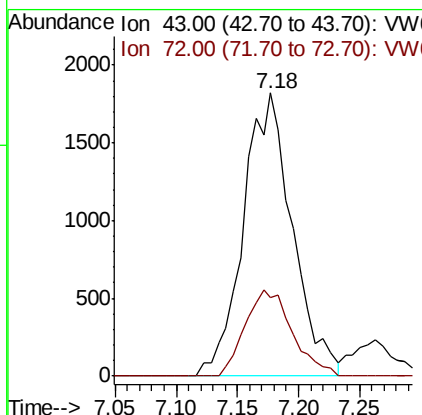
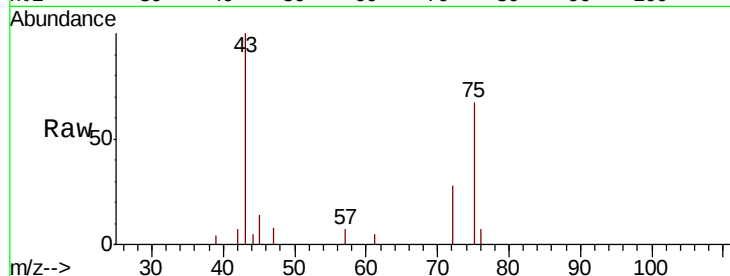




#25
2-Butanone
Concen: 30.136 ug/l
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW007813.D
Acq: 21 Dec 2018 23:18

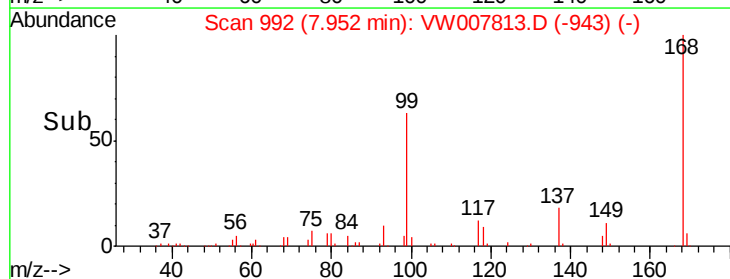
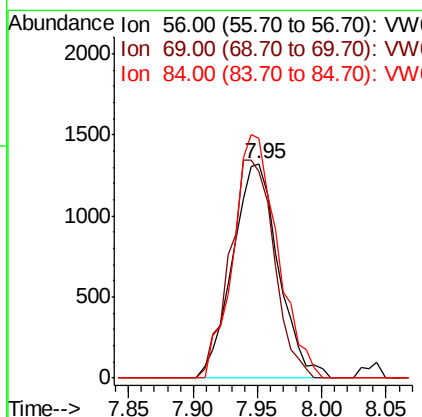
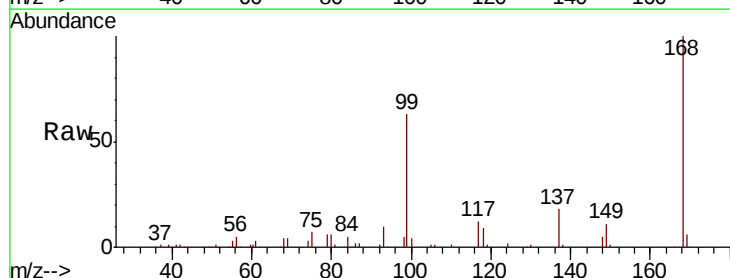
Instrument :
MSVOA_W
ClientSampleId :

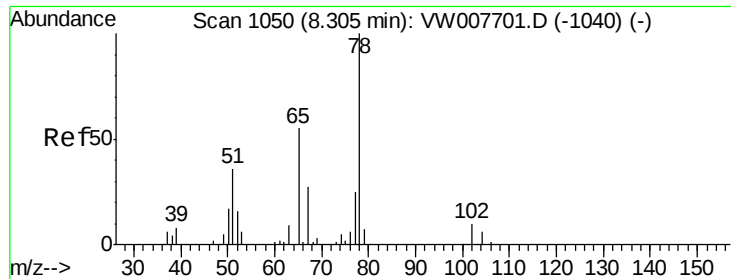
Tot Ion: 43 Resp: 5076
Ion Ratio Lower Upper
43 100
72 27.6 24.5 36.7



#31
Cyclohexane
Concen: 2.862 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW007813.D
Acq: 21 Dec 2018 23:18

Tgt Ion: 56 Resp: 3272
Ion Ratio Lower Upper
56 100
69 96.1 29.7 44.5#
84 111.6 78.9 118.3

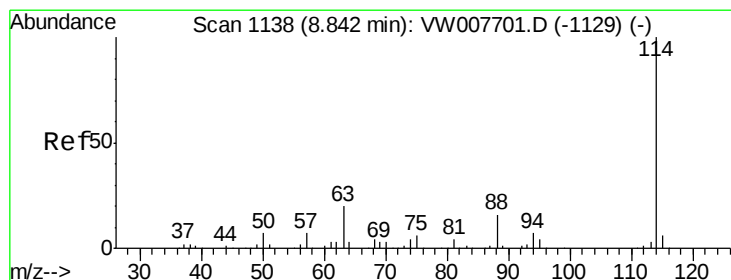
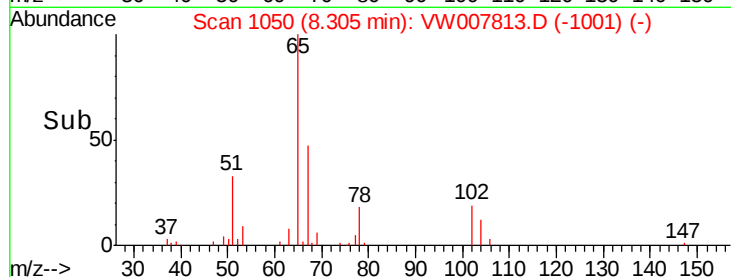
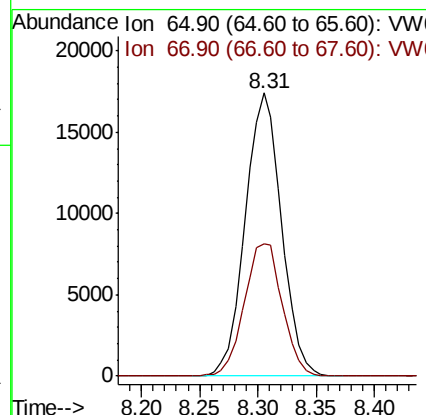
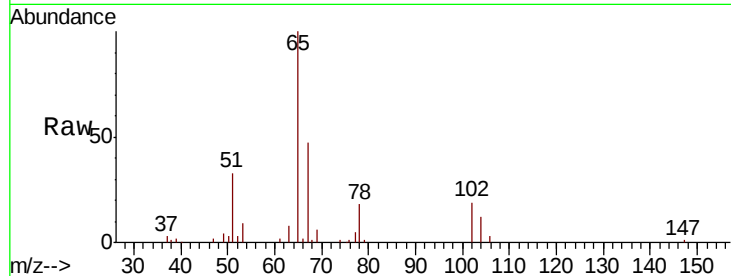




#33
 1,2-Dichloroethane-d4
 Concen: 49.147 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW007813.D
 Acq: 21 Dec 2018 23:18

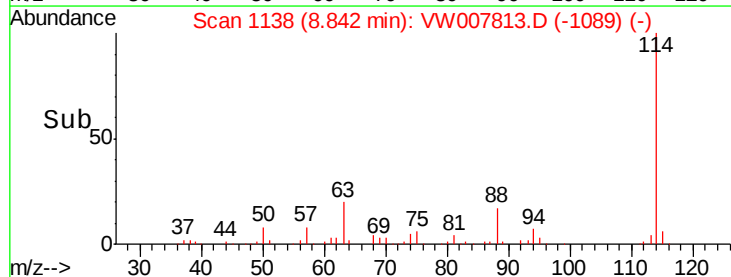
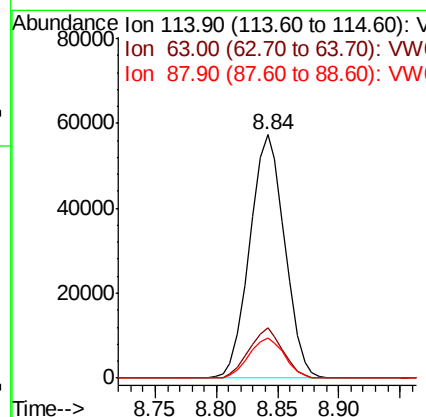
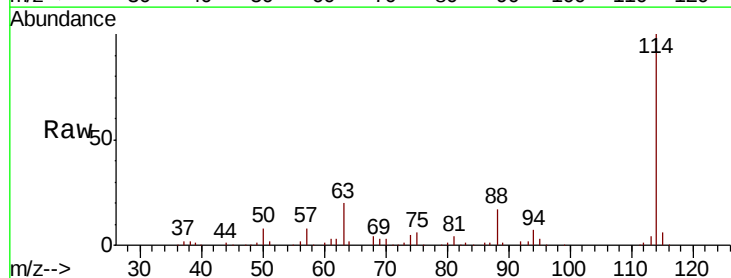
Instrument :
 MSVOA_W
 ClientSampleId :

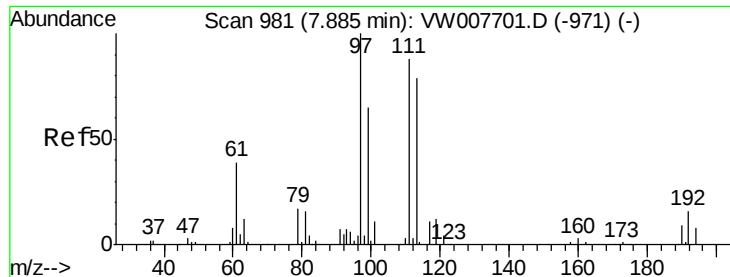
Tot Ion: 65 Resp: 37742
 Ion Ratio Lower Upper
 65 100
 67 49.1 0.0 100.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW007813.D
 Acq: 21 Dec 2018 23:18

Tgt Ion: 114 Resp: 113949
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 40.0
 88 16.7 0.0 32.6

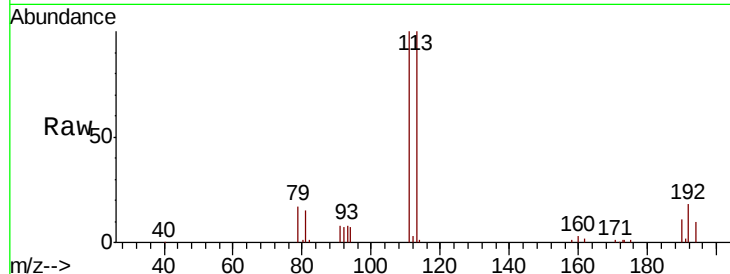




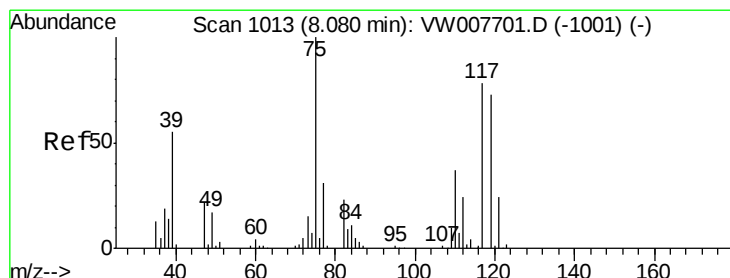
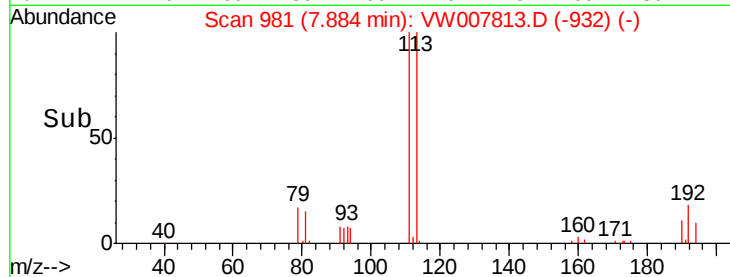
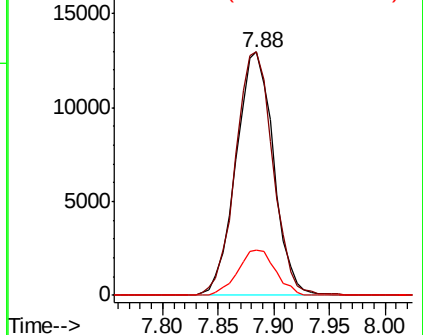
#35
 Dibromofluoromethane
 Concen: 43.494 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW007813.D
 Acq: 21 Dec 2018 23:18

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:113 Resp: 30235
 Ion Ratio Lower Upper
 113 100
 111 100.1 82.6 124.0
 192 18.7 15.5 23.3

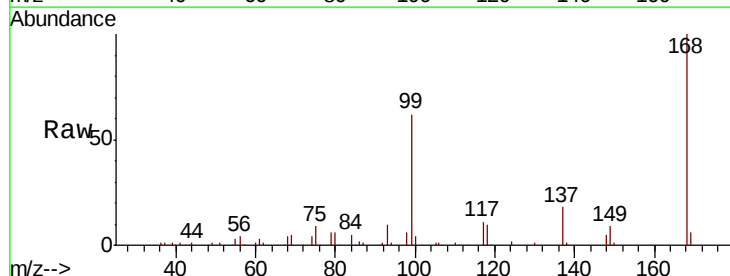


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

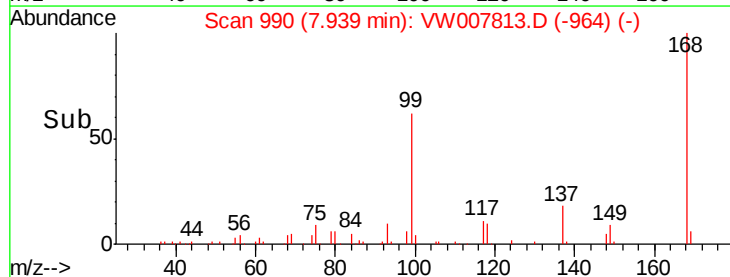
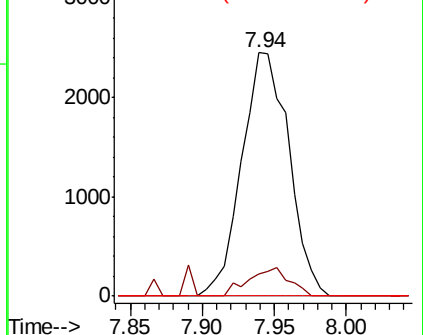


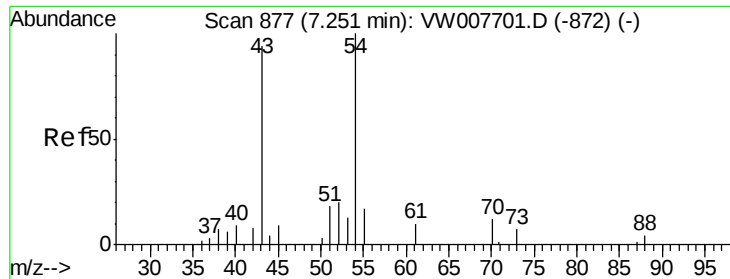
#36
 1,1-Dichloropropene
 Concen: 5.041 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.14 min
 Lab File: VW007813.D
 Acq: 21 Dec 2018 23:18

Tgt Ion: 75 Resp: 5544
 Ion Ratio Lower Upper
 75 100
 110 9.9 18.6 55.8#
 77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VW
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VW





#37

Ethyl Acetate

Concen: 1.394 ug/l

RT: 7.26 min Scan# 879

Delta R.T. 0.01 min

Lab File: VW007813.D

Acq: 21 Dec 2018 23:18

Instrument :

MSVOA_W

ClientSampleId :

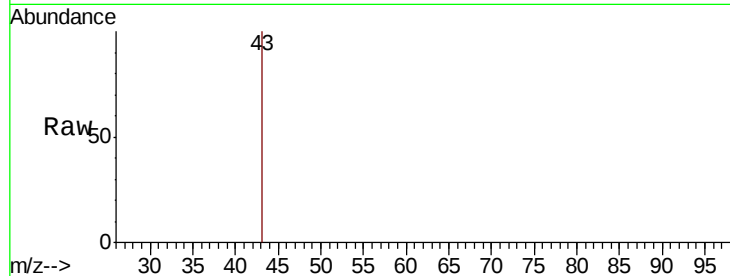
Tot Ion: 43 Resp: 529

Ion Ratio Lower Upper

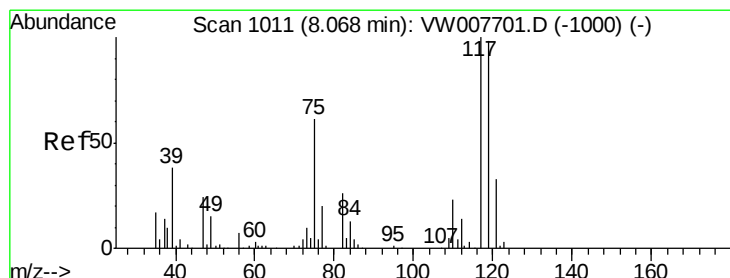
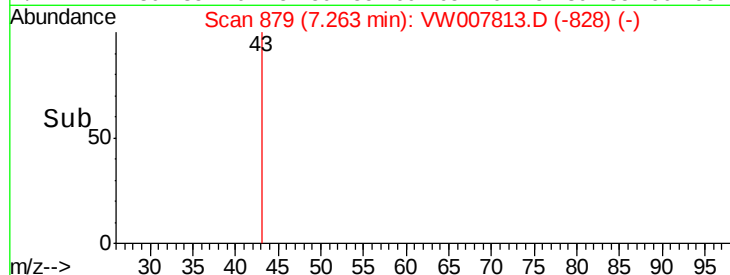
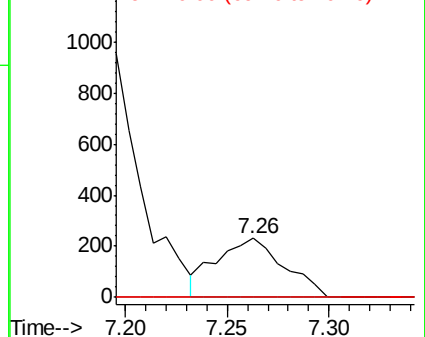
43 100

61 0.0 11.2 16.8#

70 0.0 9.3 13.9#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 70.00 (69.70 to 70.70): VW



#38

Carbon Tetrachloride

Concen: 5.716 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW007813.D

Acq: 21 Dec 2018 23:18

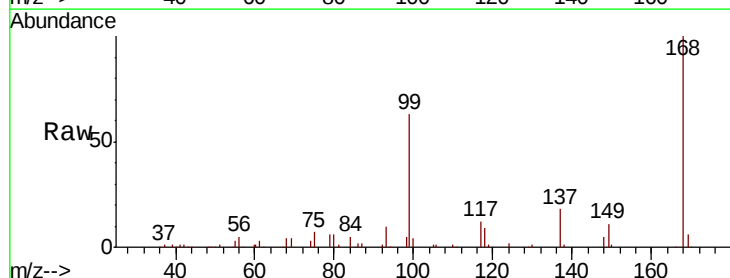
Tgt Ion: 117 Resp: 7404

Ion Ratio Lower Upper

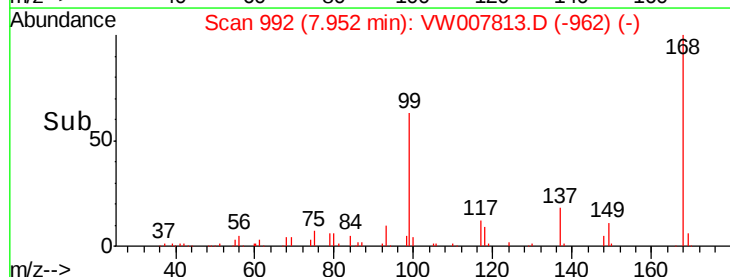
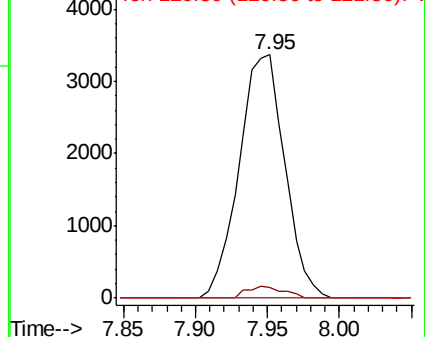
117 100

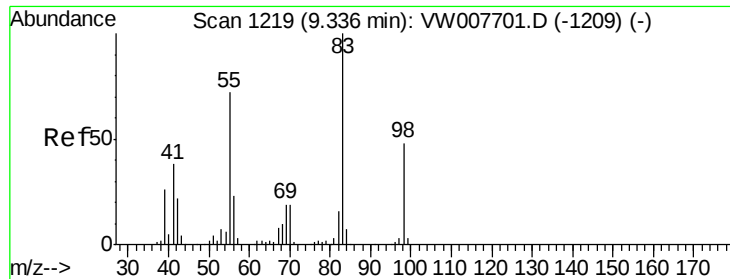
119 4.3 78.2 117.2#

121 0.0 26.1 39.1#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

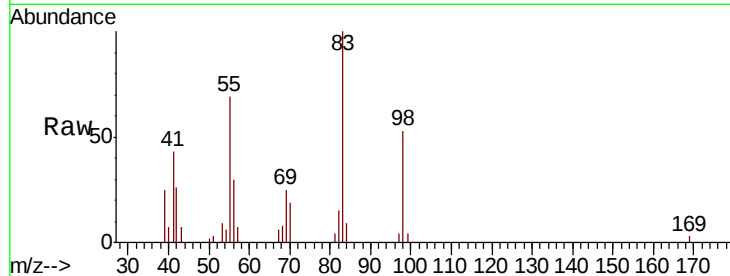




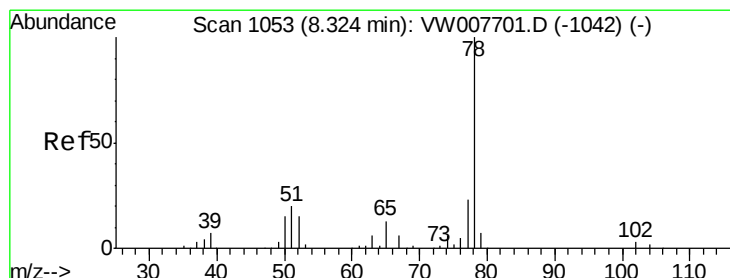
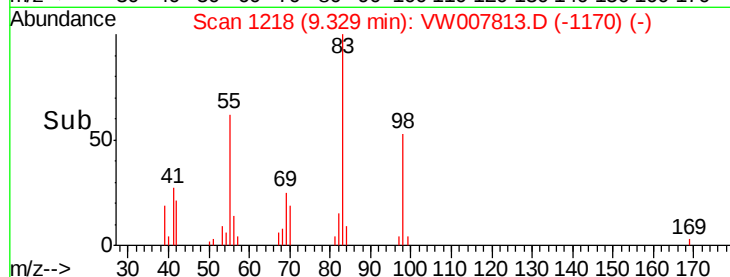
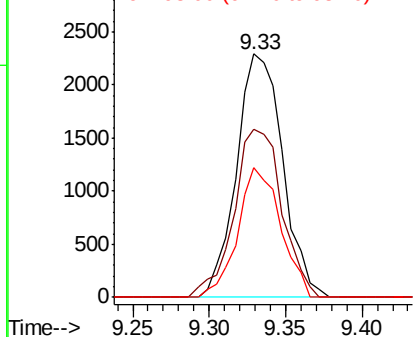
#39
Methvlcvclohexane
Concen: 3.523 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW007813.D
Acq: 21 Dec 2018 23:18

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 83 Resp: 4814
Ion Ratio Lower Upper
83 100
55 68.9 57.2 85.8
98 53.0 38.6 58.0

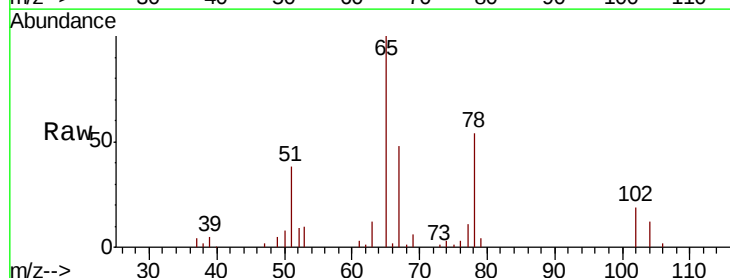


Abundance Ion 83.00 (82.70 to 83.70): VW
Ion 55.00 (54.70 to 55.70): VW
Ion 98.00 (97.70 to 98.70): VW

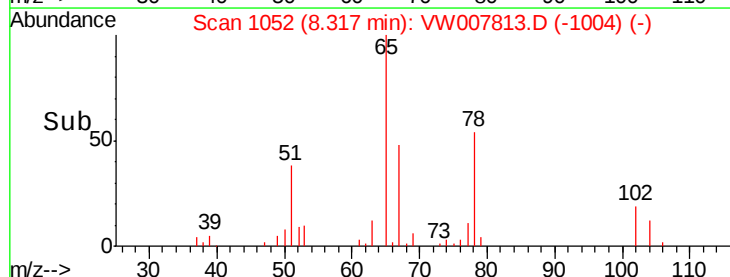
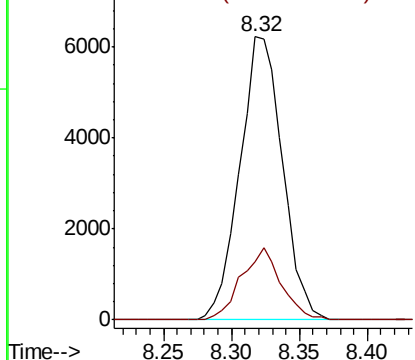


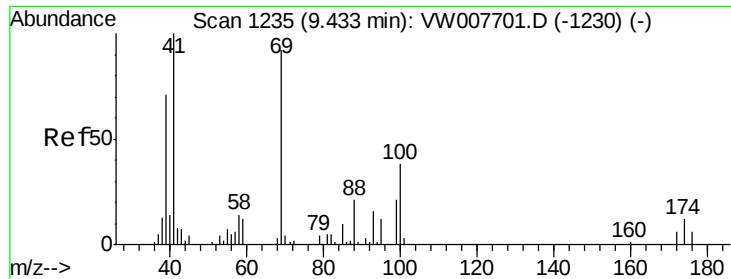
#40
Benzene
Concen: 4.656 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. -0.01 min
Lab File: VW007813.D
Acq: 21 Dec 2018 23:18

Tgt Ion: 78 Resp: 13664
Ion Ratio Lower Upper
78 100
77 20.4 18.7 28.1



Abundance Ion 78.00 (77.70 to 78.70): VW
Ion 77.00 (76.70 to 77.70): VW

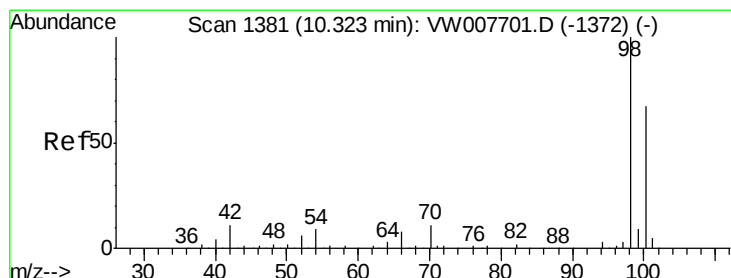
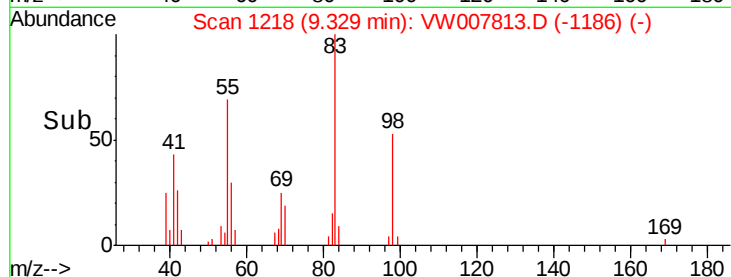
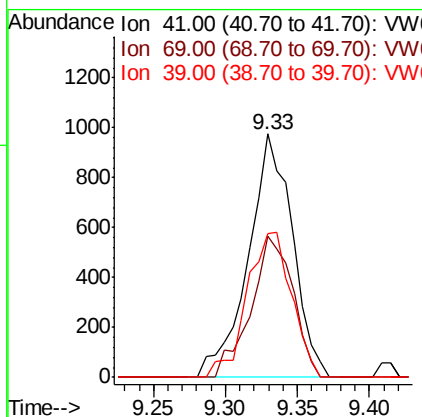
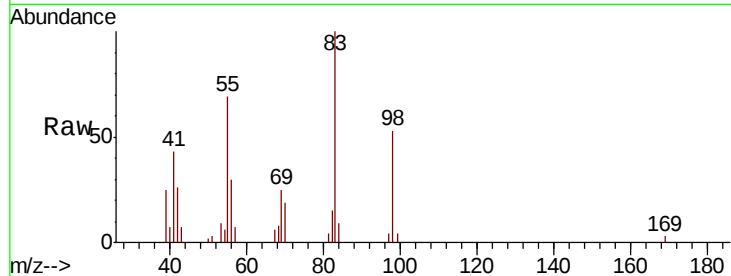




#48
Methyl methacrylate
Concen: 5.451 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.10 min
Lab File: VW007813.D
Acq: 21 Dec 2018 23:18

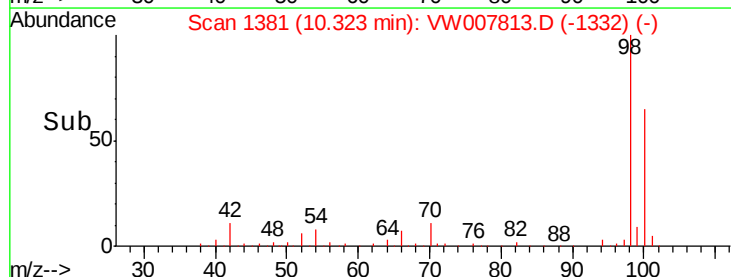
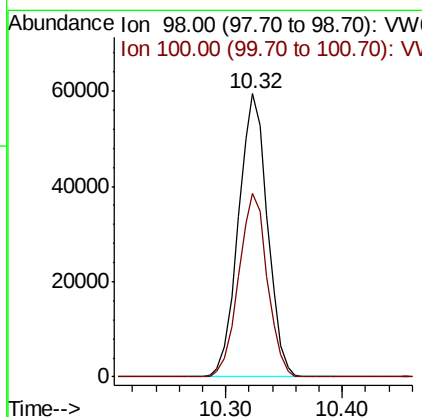
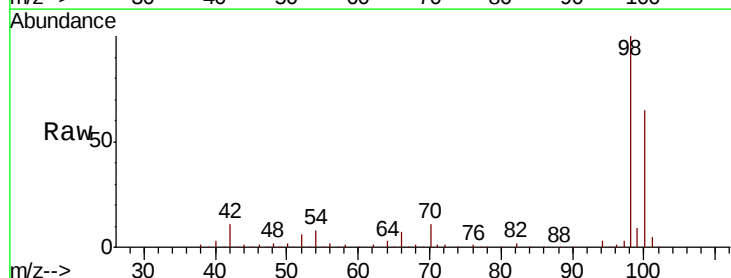
Instrument :
MSVOA_W
ClientSampled :

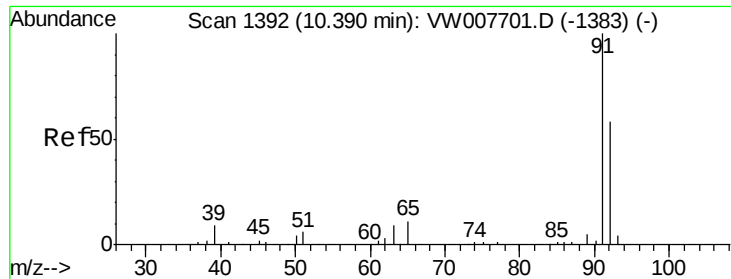
Tot Ion: 41 Resp: 2069
Ion Ratio Lower Upper
41 100
69 55.2 74.2 111.2#
39 60.0 53.9 80.9



#50
Toluene-d8
Concen: 39.456 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW007813.D
Acq: 21 Dec 2018 23:18

Tgt Ion: 98 Resp: 103399
Ion Ratio Lower Upper
98 100
100 64.1 52.2 78.2





#52

Toluene

Concen: 2.979 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW007813.D

Acq: 21 Dec 2018 23:18

Instrument :

MSVOA_W

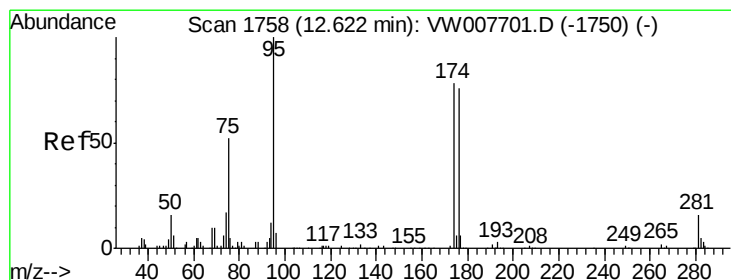
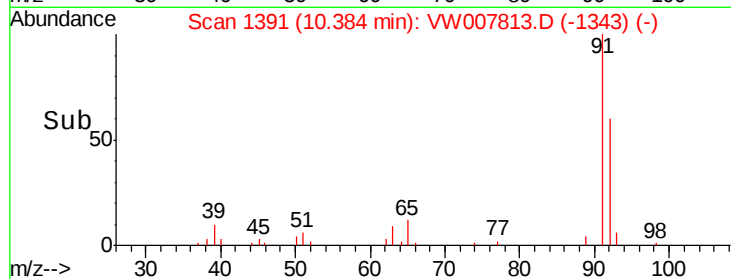
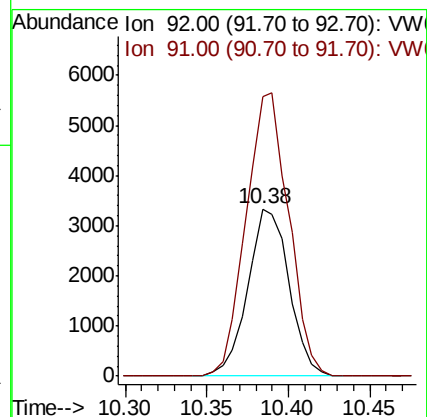
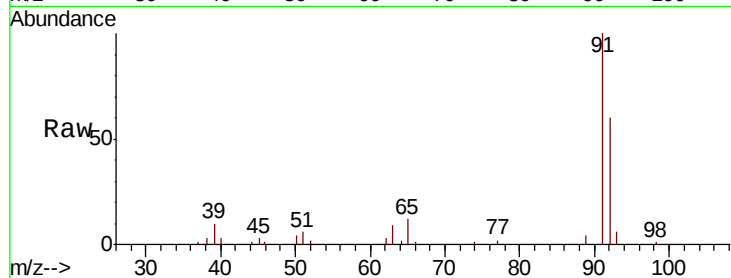
ClientSampleId :

Tot Ion: 92 Resp: 5866

Ion Ratio Lower Upper

92 100

91 175.0 137.0 205.4



#62

4-Bromofluorobenzene

Concen: 28.087 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007813.D

Acq: 21 Dec 2018 23:18

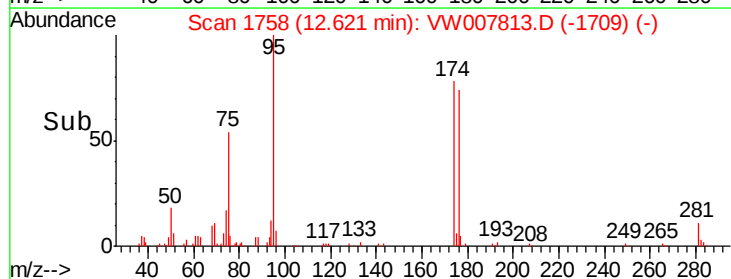
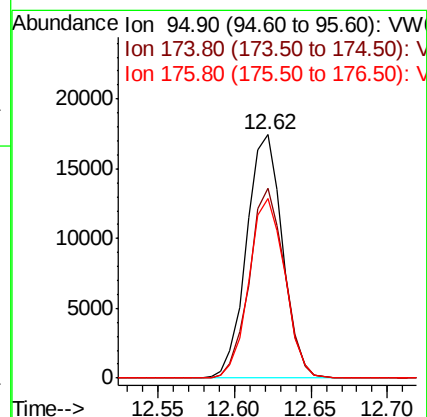
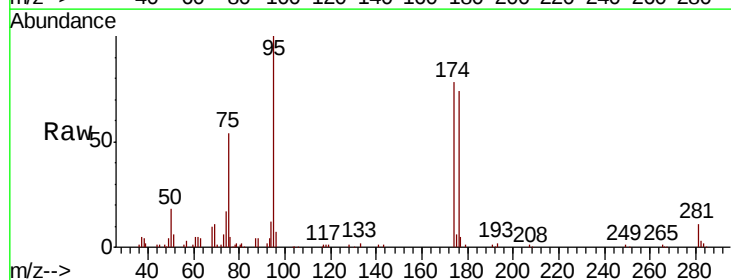
Tgt Ion: 95 Resp: 28435

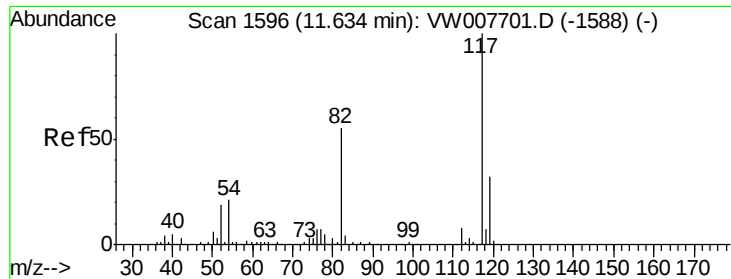
Ion Ratio Lower Upper

95 100

174 76.6 0.0 152.2

176 73.8 0.0 146.8

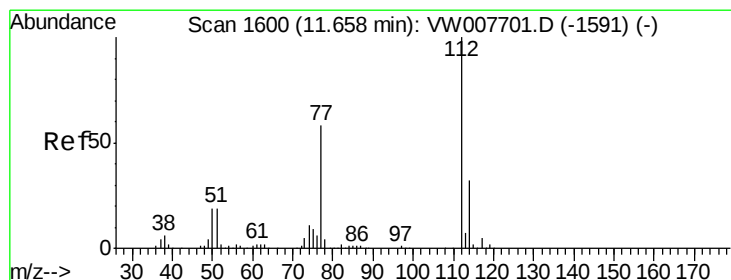
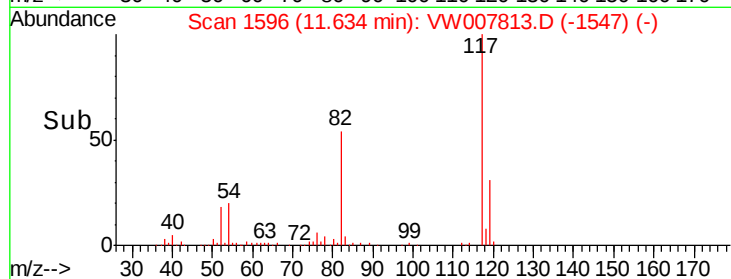
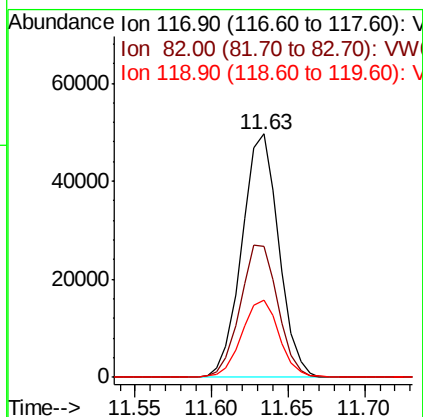
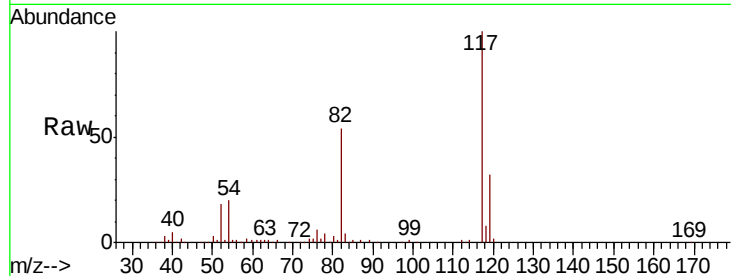




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW007813.D
Acq: 21 Dec 2018 23:18

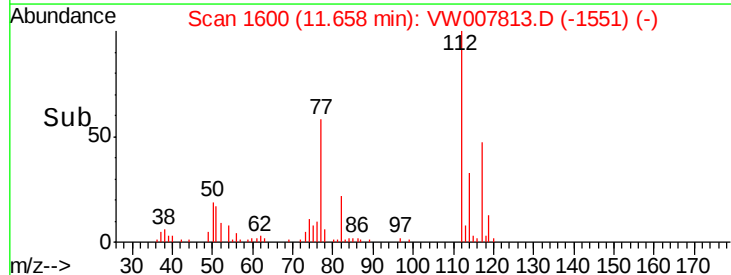
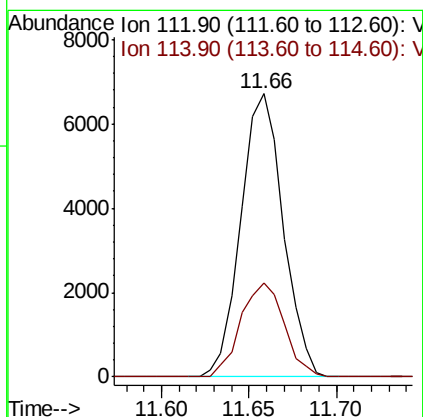
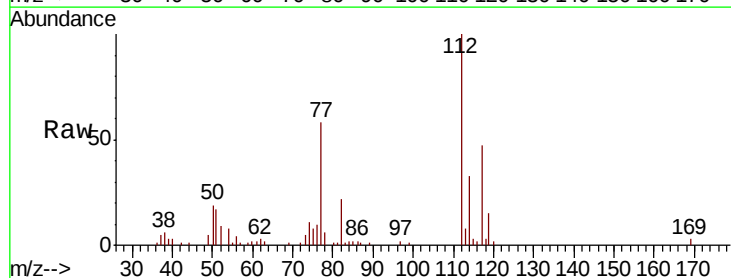
Instrument :
MSVOA_W
ClientSampleId :

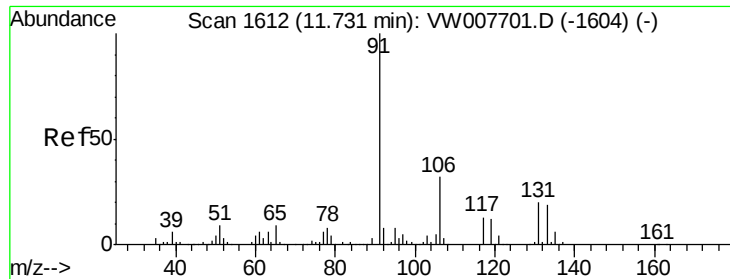
Tot Ion:117 Resp: 83114
Ion Ratio Lower Upper
117 100
82 53.6 44.3 66.5
119 31.4 25.7 38.5



#65
Chlorobenzene
Concen: 6.292 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW007813.D
Acq: 21 Dec 2018 23:18

Tgt Ion:112 Resp: 11319
Ion Ratio Lower Upper
112 100
114 33.1 25.2 37.8

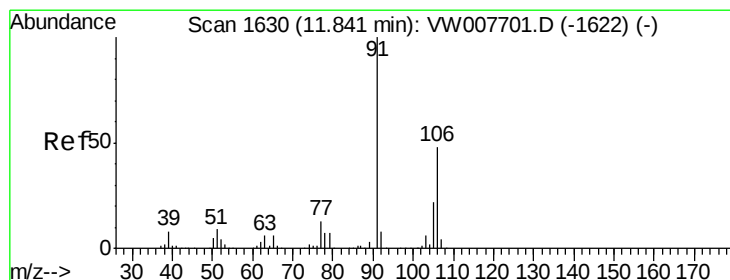
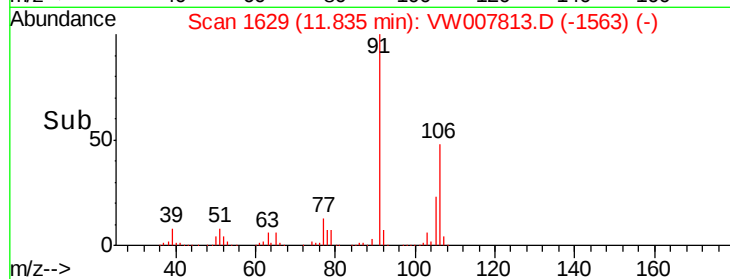
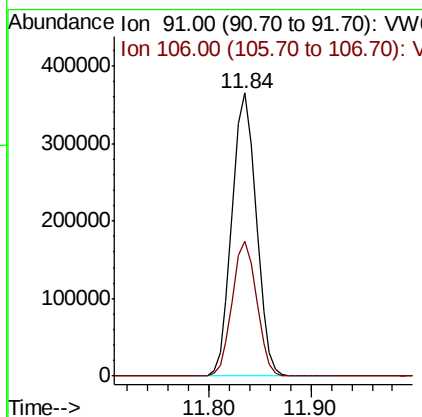
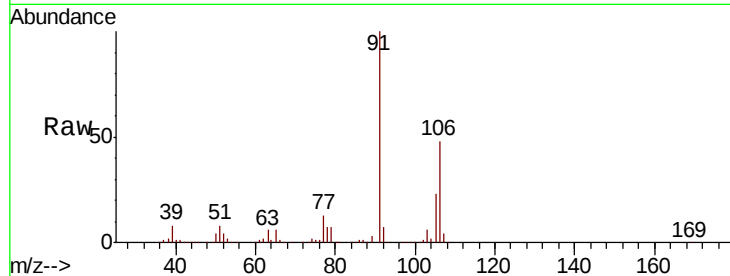




#67
Ethyl Benzene
Concen: 194.597 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. 0.10 min
Lab File: VW007813.D
Acq: 21 Dec 2018 23:18

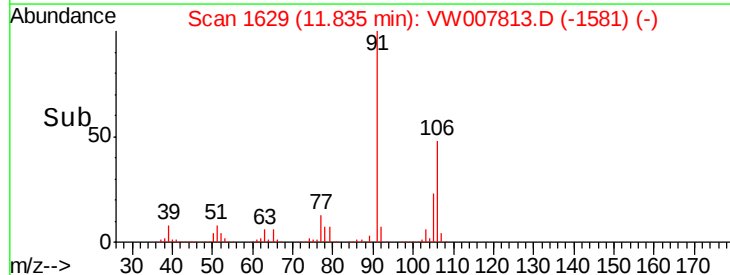
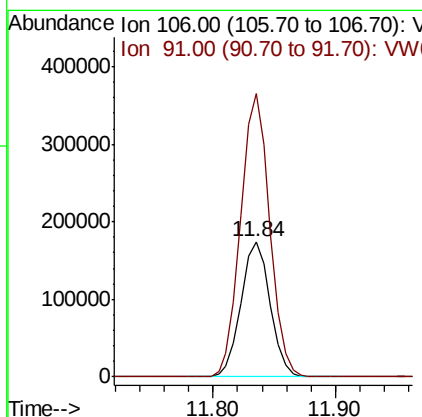
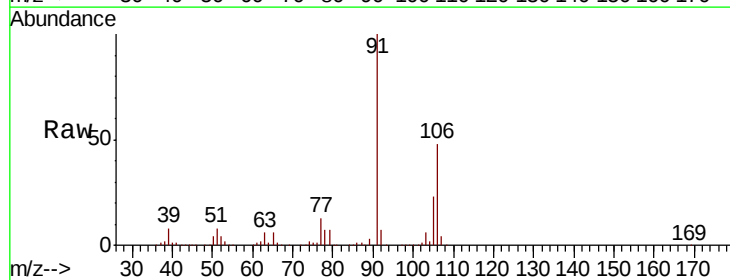
Instrument :
MSVOA_W
ClientSampled :

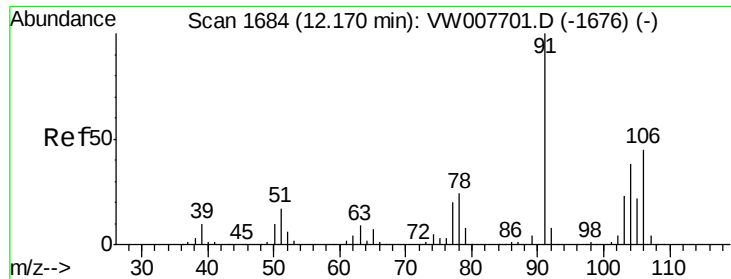
Tot Ion: 91 Resp: 600716
Ion Ratio Lower Upper
91 100
106 47.7 25.8 38.8#



#68
m/p-Xylenes
Concen: 240.535 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW007813.D
Acq: 21 Dec 2018 23:18

Tgt Ion:106 Resp: 288037
Ion Ratio Lower Upper
106 100
91 208.6 165.2 247.8

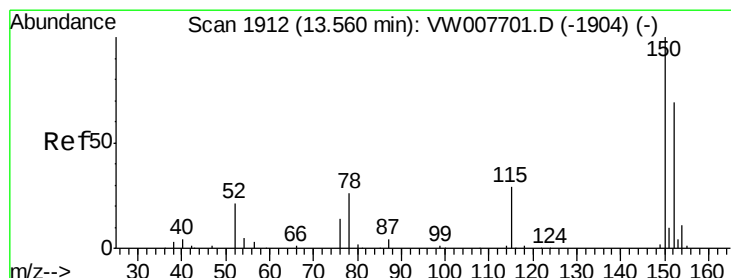
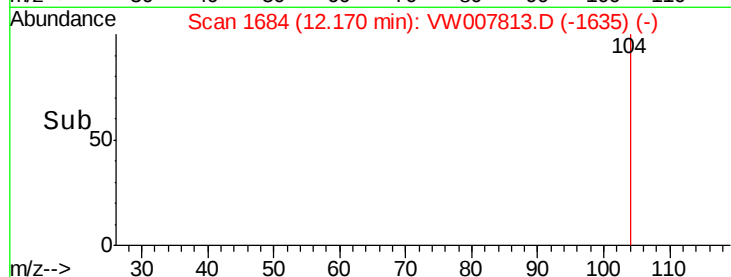
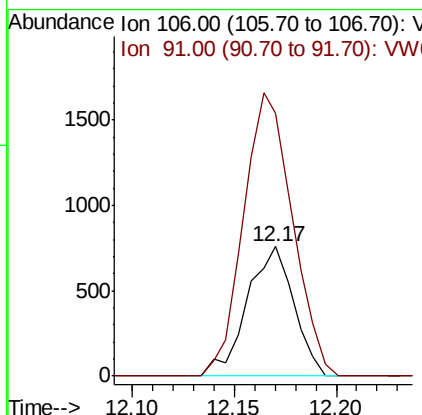
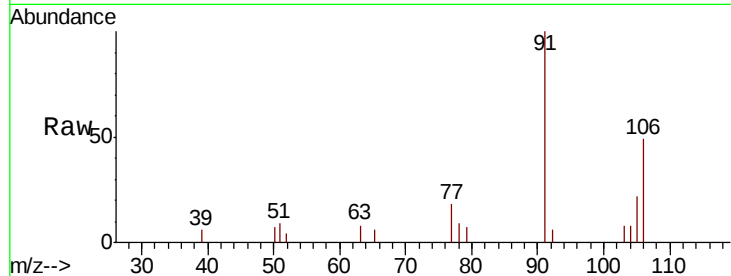




#69
o-Xylene
Concen: 1.079 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW007813.D
Acq: 21 Dec 2018 23:18

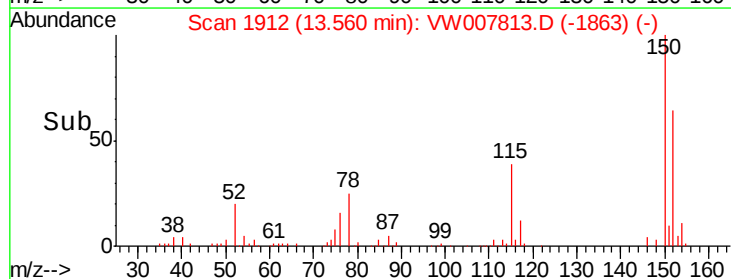
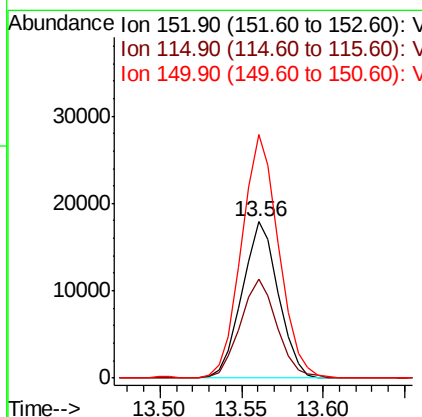
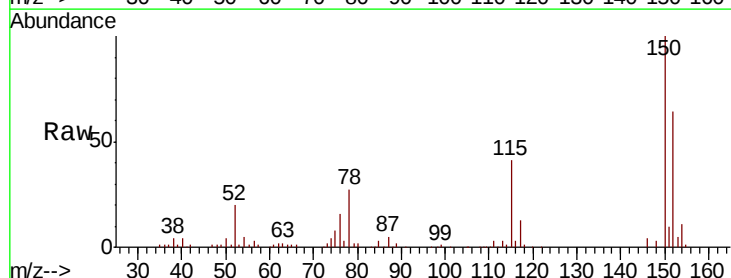
Instrument :
MSVOA_W
ClientSampled :

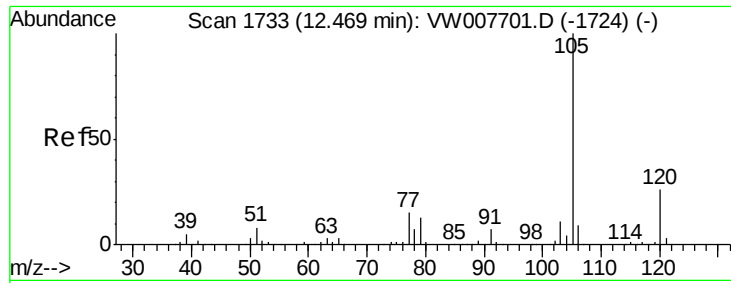
Tot Ion:106 Resp: 1211
Ion Ratio Lower Upper
106 100
91 228.8 110.5 331.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW007813.D
Acq: 21 Dec 2018 23:18

Tgt Ion:152 Resp: 27718
Ion Ratio Lower Upper
152 100
115 64.4 31.8 95.4
150 159.9 0.0 350.8





#73

Isopropylbenzene

Concen: 1.038 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW007813.D

Acq: 21 Dec 2018 23:18

Instrument :

MSVOA_W

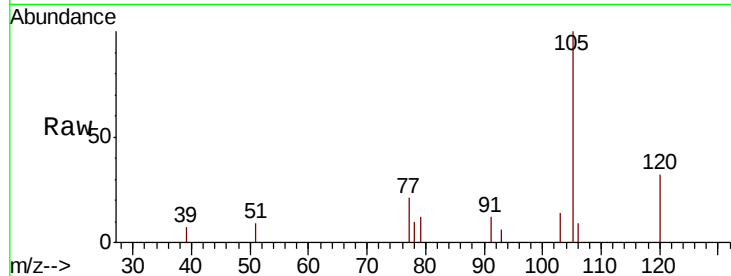
ClientSampleId :

Tot Ion:105 Resp: 2175

Ion Ratio Lower Upper

105 100

120 25.2 13.1 39.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.47

1500

1000

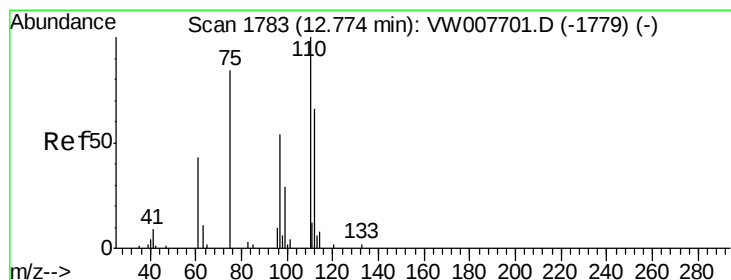
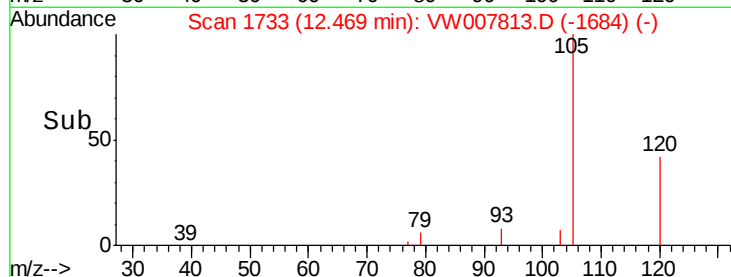
500

0

Time--> 12.40

12.45

12.50



#76

1,2,3-Trichloropropane

Concen: 68.602 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW007813.D

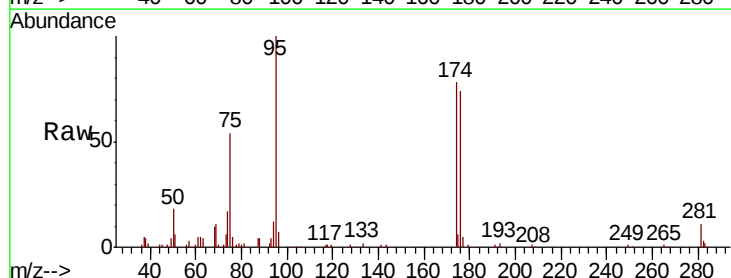
Acq: 21 Dec 2018 23:18

Tgt Ion: 75 Resp: 14697

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

10000

8000

6000

4000

2000

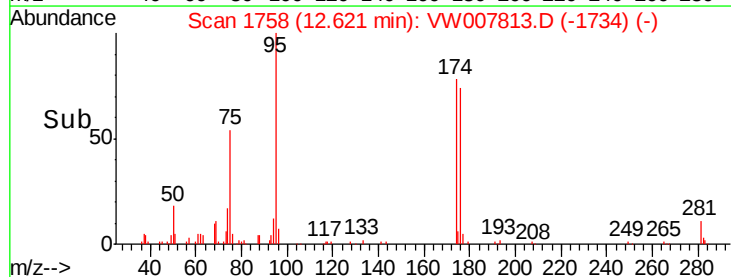
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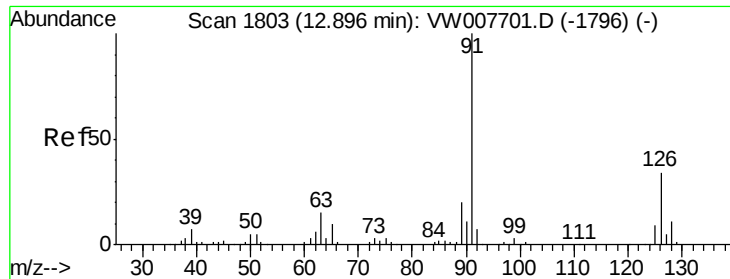
Time--> 12.55

12.60

12.65

12.70





#79

2-Chlorotoluene

Concen: 1.051 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. -0.02 min

Lab File: VW007813.D

Acq: 21 Dec 2018 23:18

Instrument :

MSVOA_W

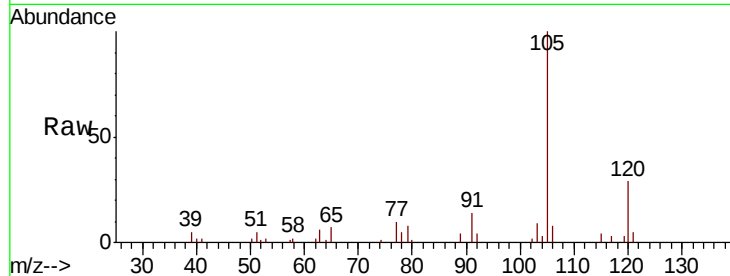
ClientSampleId :

Tot Ion: 91 Resp: 1493

Ion Ratio Lower Upper

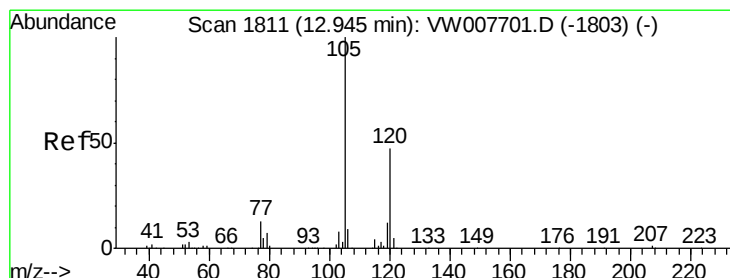
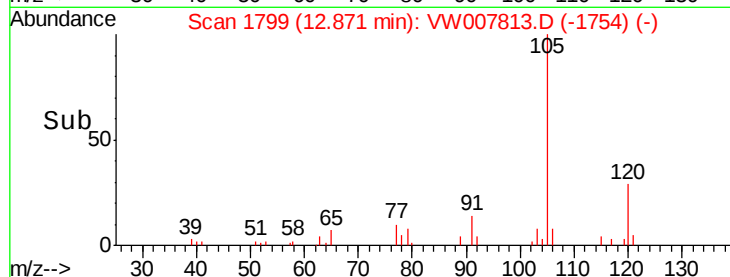
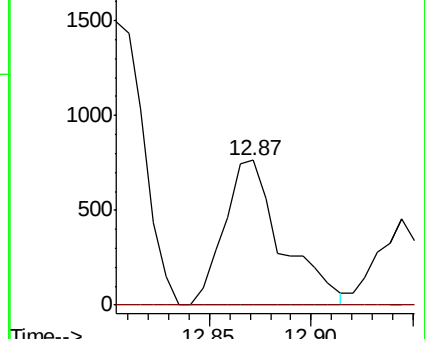
91 100

126 0.0 17.0 51.0#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 3.713 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW007813.D

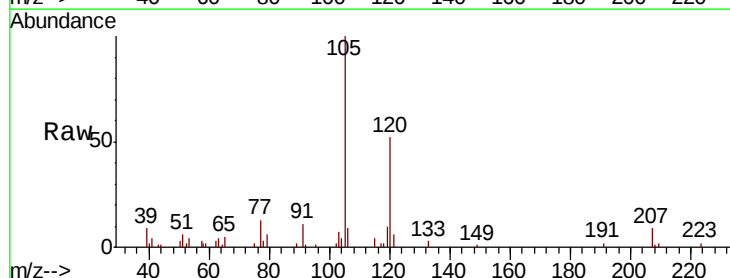
Acq: 21 Dec 2018 23:18

Tgt Ion:105 Resp: 6711

Ion Ratio Lower Upper

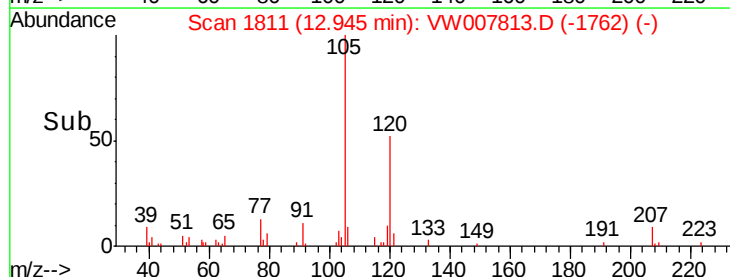
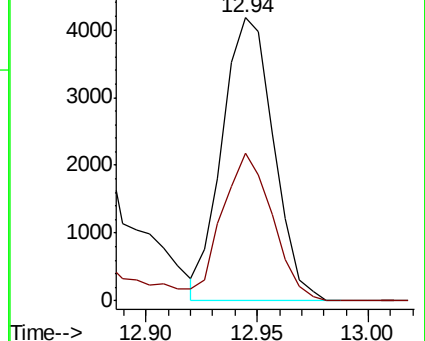
105 100

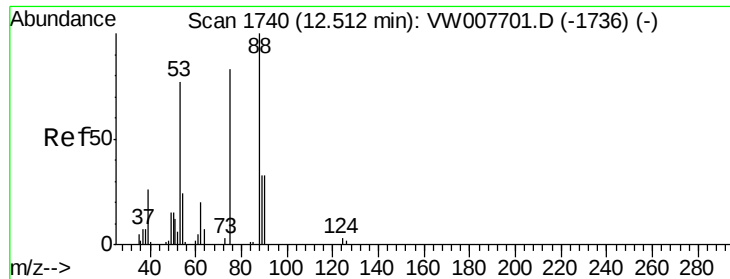
120 51.9 23.6 70.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

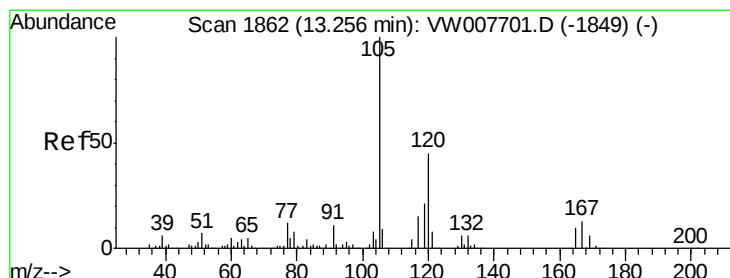
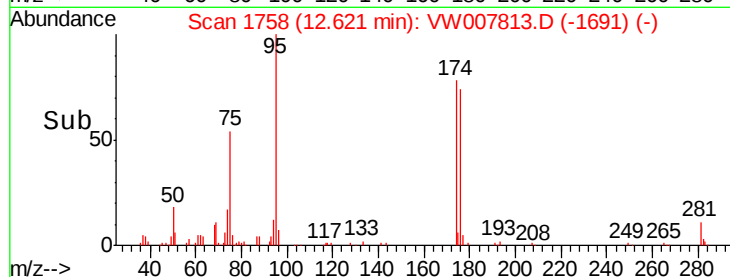
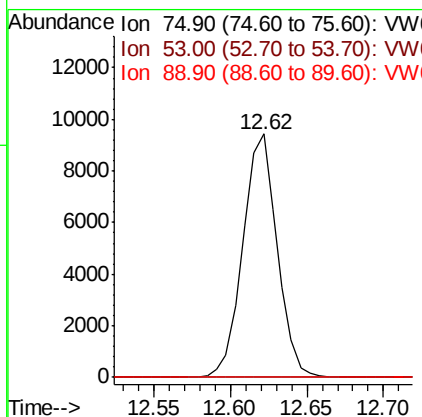
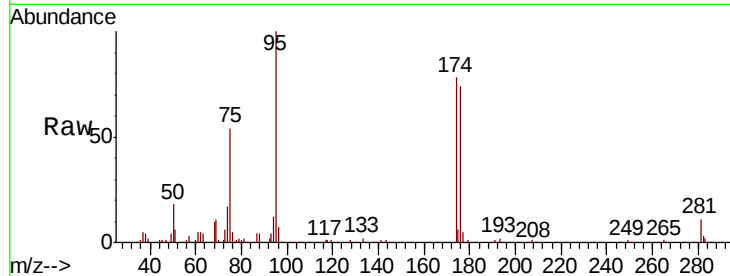




#81
trans-1,4-Dichloro-2-butene
Concen: 144.002 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.11 min
Lab File: VW007813.D
Acq: 21 Dec 2018 23:18

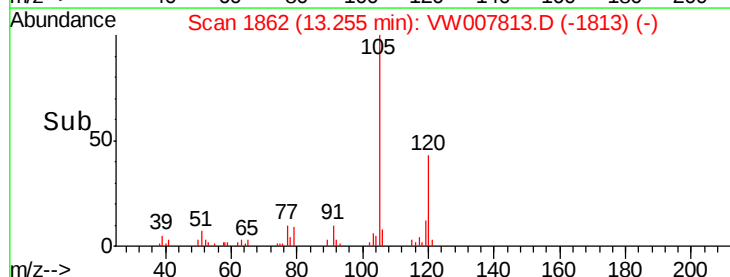
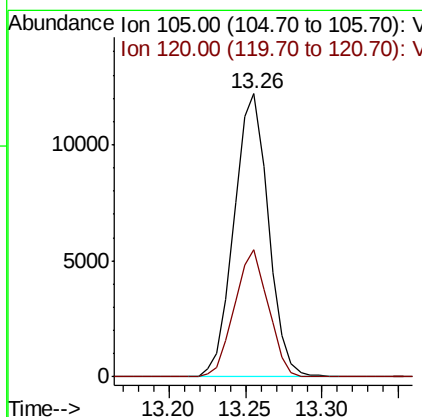
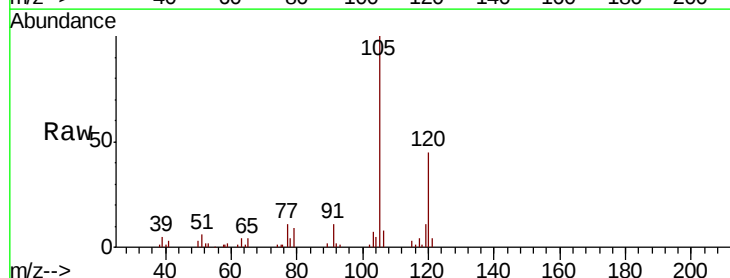
Instrument :
MSVOA_W
ClientSampleId :

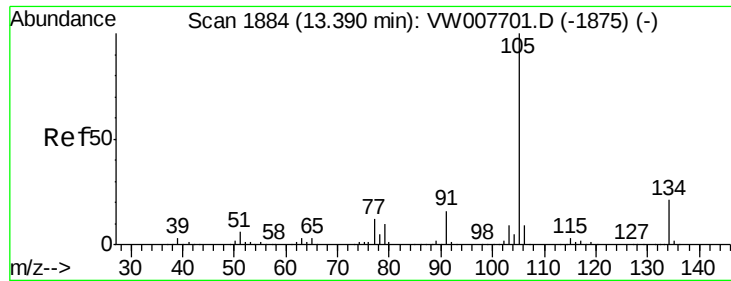
Tot Ion: 75 Resp: 14697
Ion Ratio Lower Upper
75 100
53 0.0 80.2 120.2#
89 0.0 39.2 58.8#



#84
1,2,4-Trimethylbenzene
Concen: 10.405 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. -0.00 min
Lab File: VW007813.D
Acq: 21 Dec 2018 23:18

Tgt Ion:105 Resp: 18975
Ion Ratio Lower Upper
105 100
120 44.1 22.0 66.0

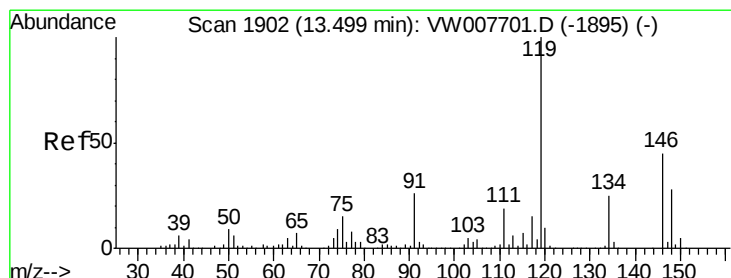
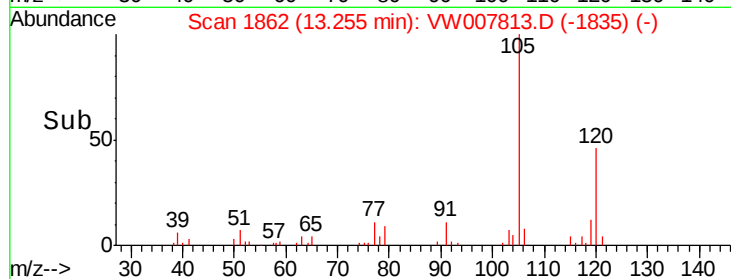
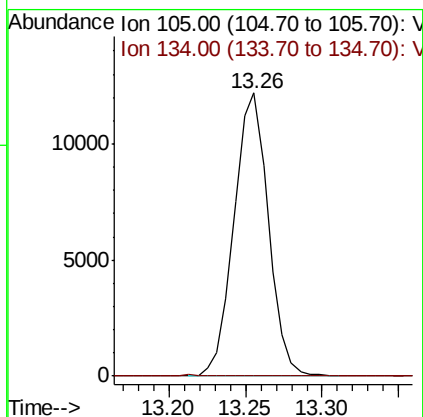
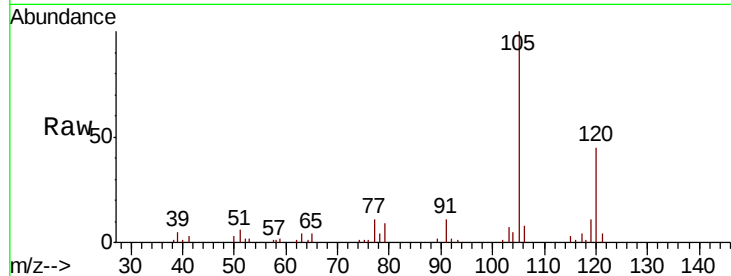




#85
 sec-Butylbenzene
 Concen: 8.683 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.13 min
 Lab File: VW007813.D
 Acq: 21 Dec 2018 23:18

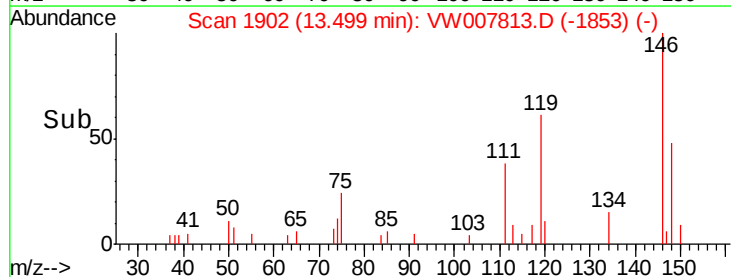
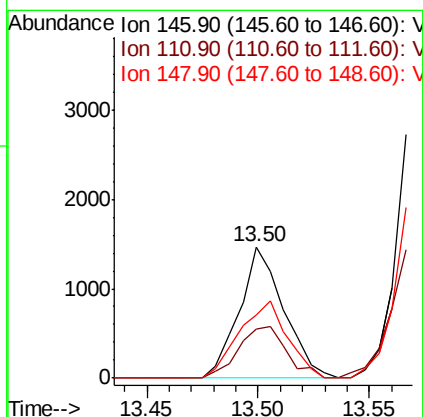
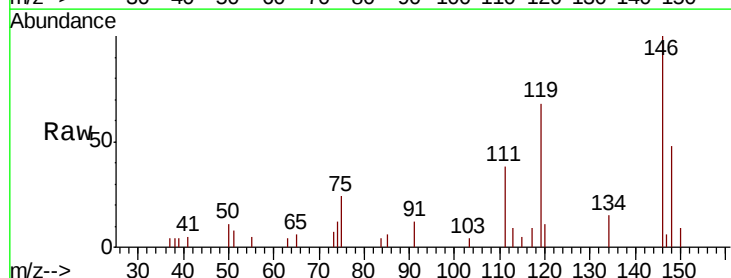
Instrument :
 MSVOA_W
 ClientSampled :

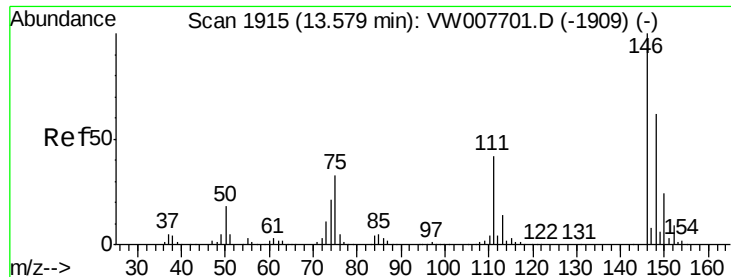
Tot Ion:105 Resp: 18975
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.4#



#87
 1,3-Dichlorobenzene
 Concen: 2.130 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW007813.D
 Acq: 21 Dec 2018 23:18

Tgt Ion:146 Resp: 2031
 Ion Ratio Lower Upper
 146 100
 111 42.7 21.1 63.4
 148 64.1 32.1 96.5





#88

1,4-Dichlorobenzene

Concen: 13.572 ug/l

RT: 13.58 min Scan# 1916

Delta R.T. 0.01 min

Lab File: VW007813.D

Acq: 21 Dec 2018 23:18

Instrument :

MSVOA_W

ClientSampleId :

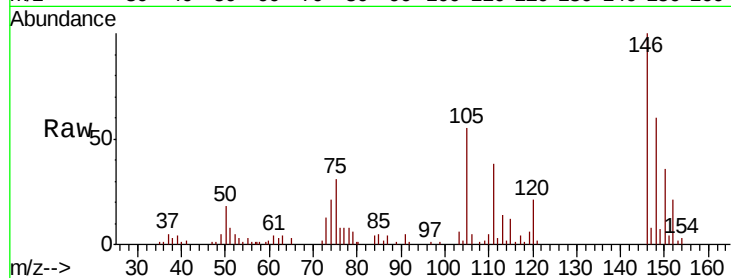
Tot Ion:146 Resp: 12943

Ion Ratio Lower Upper

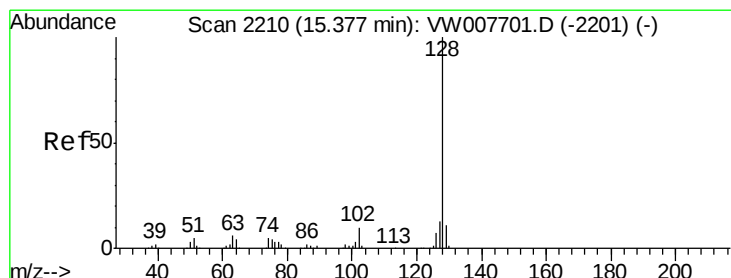
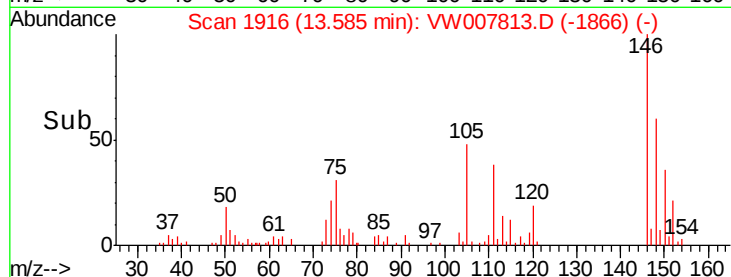
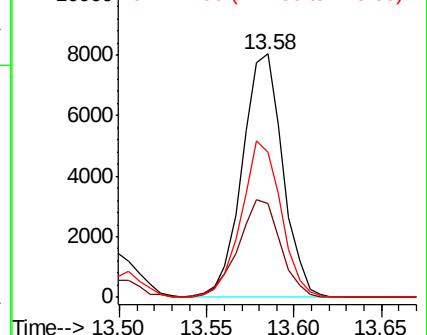
146 100

111 42.1 21.0 63.0

148 63.1 31.8 95.4



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: 6.887 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. -0.01 min

Lab File: VW007813.D

Acq: 21 Dec 2018 23:18

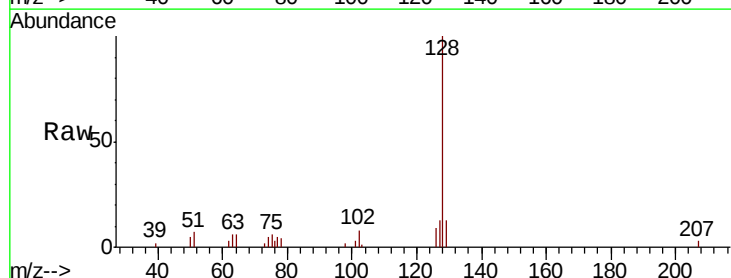
Tgt Ion:128 Resp: 7544

Ion Ratio Lower Upper

128 100

127 12.5 10.7 16.1

129 10.9 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

