

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071318\
 Data File : VW003937.D
 Acq On : 14 Jul 2018 00:56
 Operator : VA/AP
 Sample : J3821-05
 Misc : 5.98G/5ML/MSVOA W/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jul 14 01:51:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W070718S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 07 05:07:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	184769	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	318803	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	266389	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	104679	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	132793	54.96	ug/l	0.00
Spiked Amount			Recovery	=	109.92%	
35) Dibromofluoromethane	7.88	113	104648	46.90	ug/l	0.00
Spiked Amount			Recovery	=	93.80%	
50) Toluene-d8	10.33	98	376192	44.08	ug/l	0.00
Spiked Amount			Recovery	=	88.16%	
62) 4-Bromofluorobenzene	12.62	95	114937	37.22	ug/l	0.00
Spiked Amount			Recovery	=	74.44%	

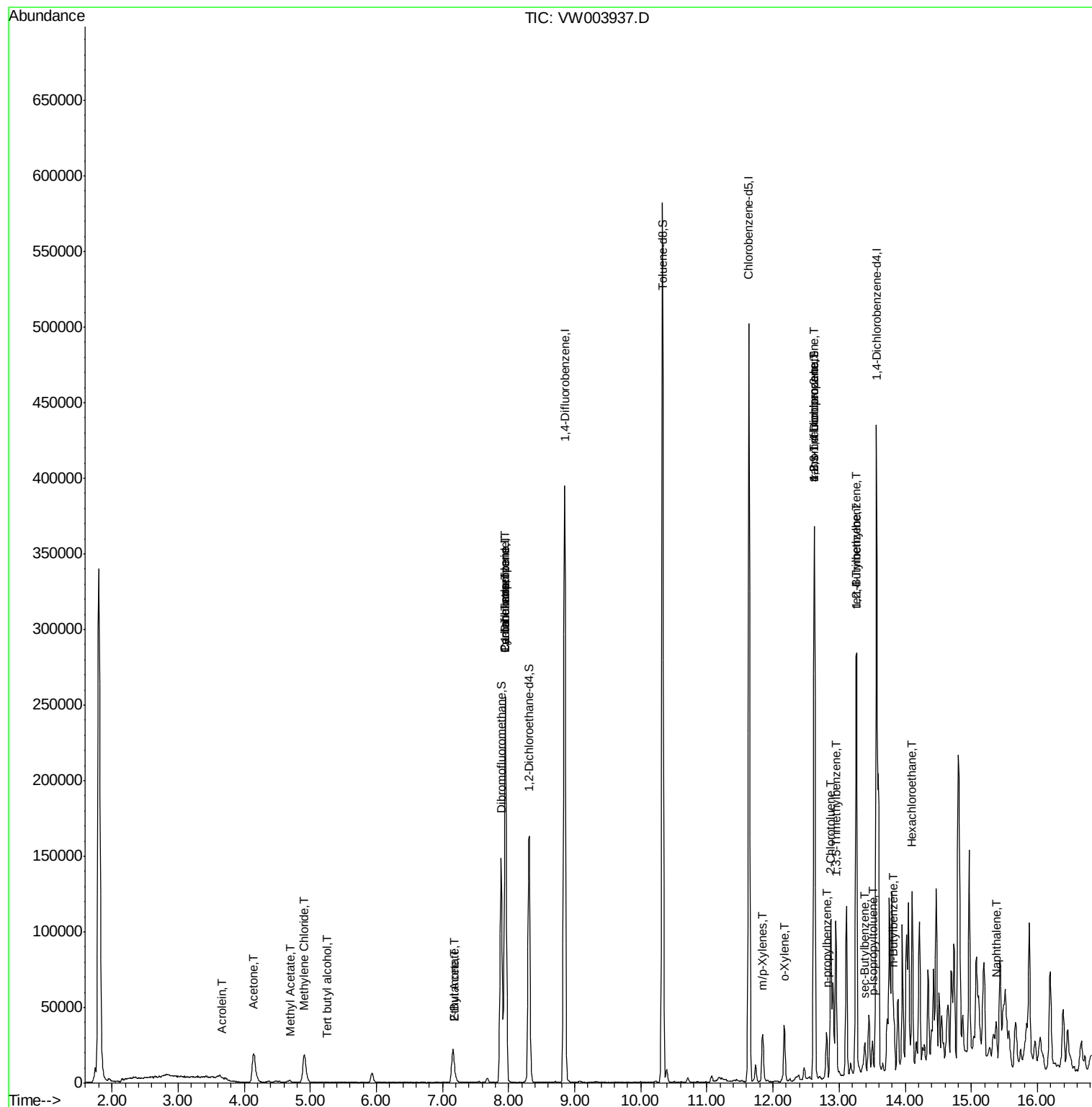
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.26	59	360	2.749	ug/l #	70
13) Acrolein	3.66	56	69	5.053	ug/l #	14
16) Acetone	4.14	43	40693	97.070	ug/l	98
18) Methyl Acetate	4.69	43	2460	2.081	ug/l	98
20) Methylene Chloride	4.90	84	14574	3.013	ug/l	97
25) 2-Butanone	7.19	43	4797	7.306	ug/l	94
31) Cyclohexane	7.95	56	4482	1.271	ug/l #	17
36) 1,1-Dichloropropene	7.95	75	15605	4.613	ug/l #	50
37) Ethyl Acetate	7.19	43	4797	2.914	ug/l #	70
38) Carbon Tetrachloride	7.95	117	18855	5.863	ug/l #	16
68) m/p-Xylenes	11.84	106	8594	2.235	ug/l	94
69) o-Xylene	12.17	106	9287	2.617	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	60682	59.033	ug/l #	100
78) n-propylbenzene	12.81	91	21004	2.360	ug/l	99
79) 2-Chlorotoluene	12.87	91	8544	1.671	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.95	105	47283	7.739	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.62	75	60682	144.409	ug/l #	8
83) tert-Butylbenzene	13.26	119	20545	4.077	ug/l #	72
84) 1,2,4-Trimethylbenzene	13.26	105	153068	24.115	ug/l	98
85) sec-Butylbenzene	13.39	105	10934	1.451	ug/l	81
86) p-Isopropyltoluene	13.51	119	9833	1.493	ug/l	97
89) n-Butylbenzene	13.83	91	15802	2.439	ug/l #	74
90) Hexachloroethane	14.10	117	5710	4.500	ug/l #	10
95) Naphthalene	15.38	128	14003	3.607	ug/l #	94

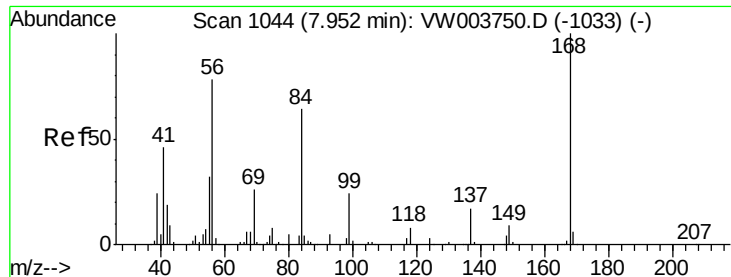
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jul 07 05:07:25 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.00 min

Lab File: VW003937.D

Acq: 14 Jul 2018 00:56

Instrument :

MSVOA_W

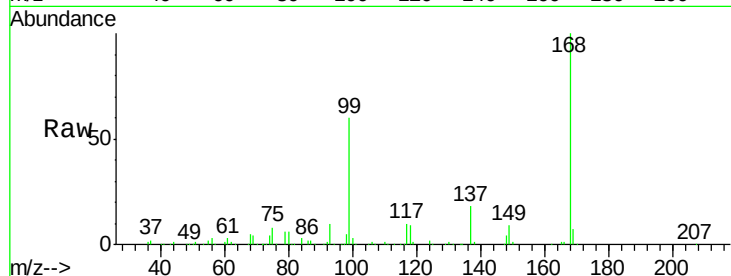
ClientSampleId :

Tot Ion:168 Resp: 184769

Ion Ratio Lower Upper

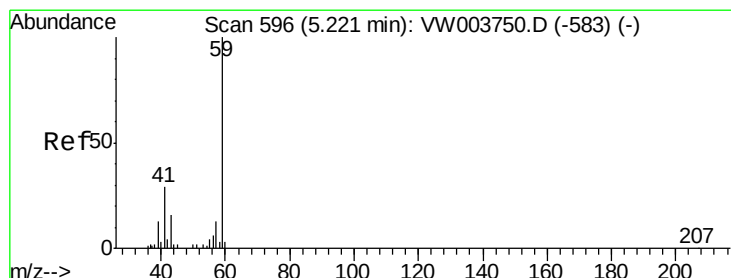
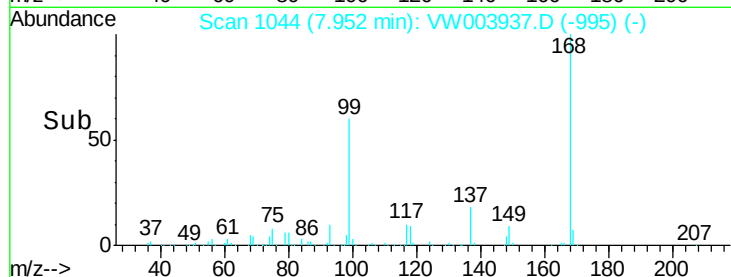
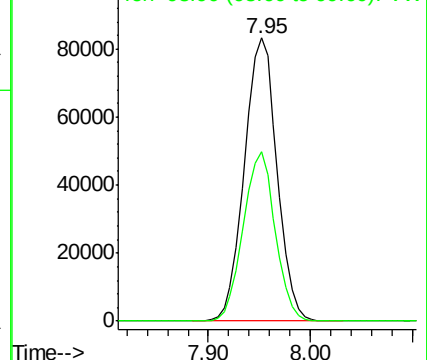
168 100

99 60.0 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 2.749 ug/l

RT: 5.26 min Scan# 602

Delta R.T. 0.04 min

Lab File: VW003937.D

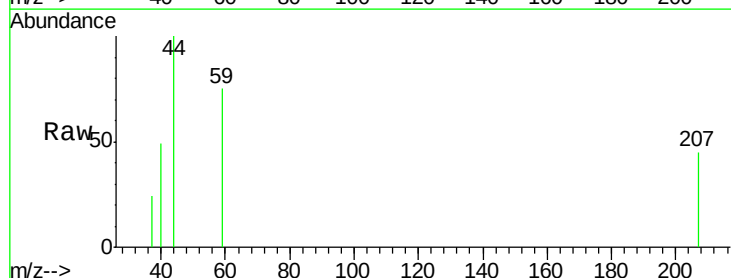
Acq: 14 Jul 2018 00:56

Tgt Ion: 59 Resp: 360

Ion Ratio Lower Upper

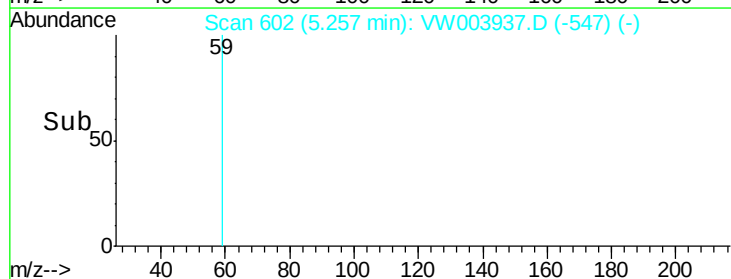
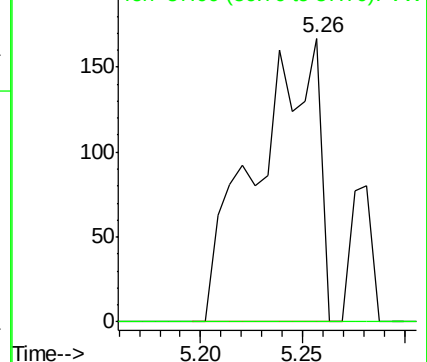
59 100

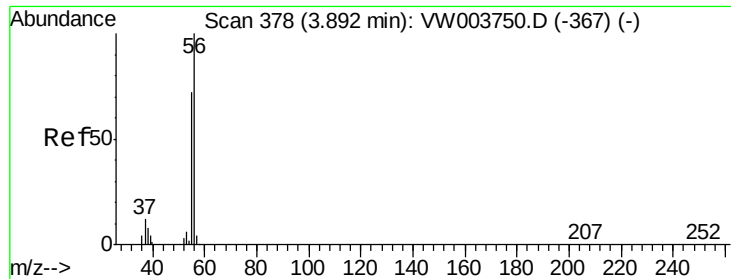
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 5.053 ug/l

RT: 3.66 min Scan# 340

Delta R.T. -0.23 min

Lab File: VW003937.D

Acq: 14 Jul 2018 00:56

Instrument :

MSVOA_W

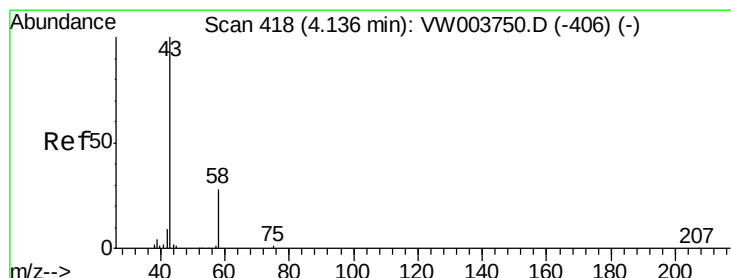
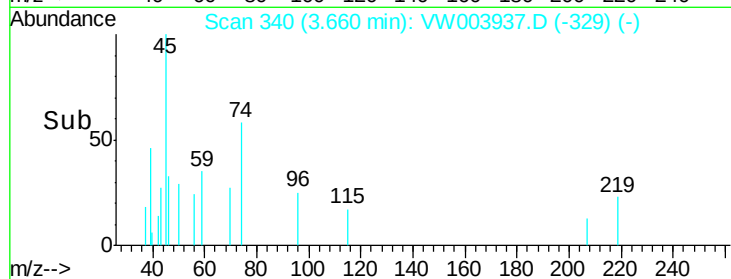
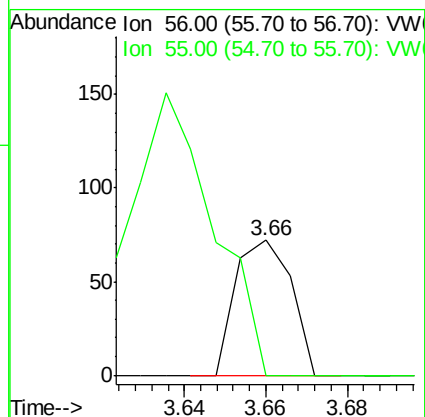
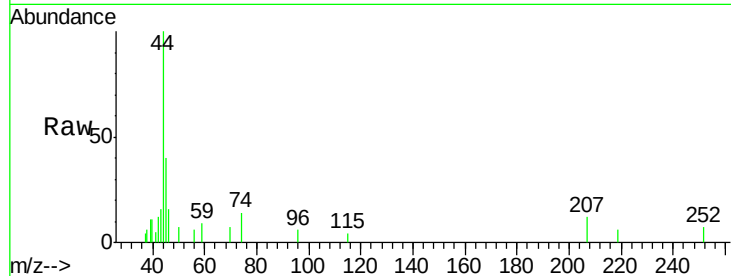
ClientSampled :

Tot Ion: 56 Resp: 69

Ion Ratio Lower Upper

56 100

55 0.0 57.5 86.3#



#16

Acetone

Concen: 97.070 ug/l

RT: 4.14 min Scan# 419

Delta R.T. 0.01 min

Lab File: VW003937.D

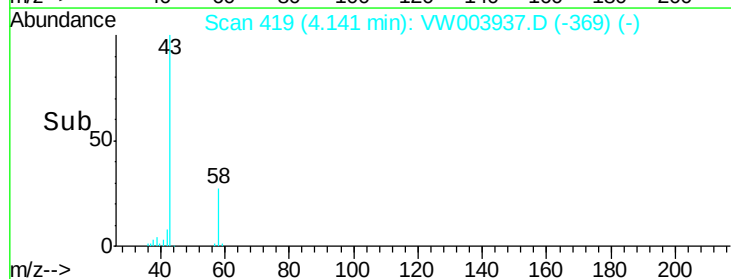
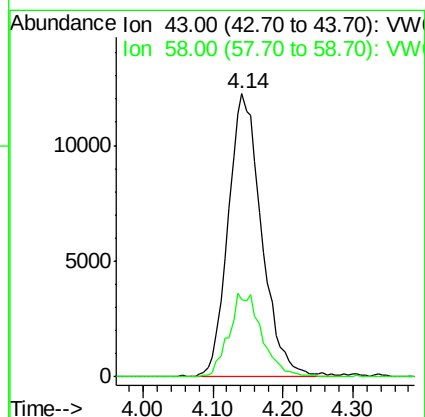
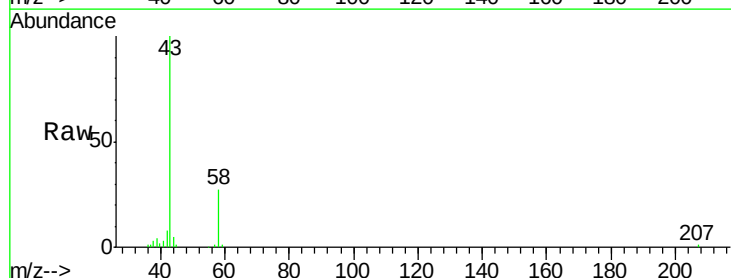
Acq: 14 Jul 2018 00:56

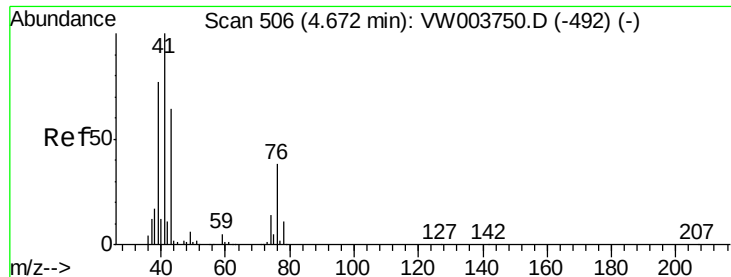
Tgt Ion: 43 Resp: 40693

Ion Ratio Lower Upper

43 100

58 27.1 22.6 34.0

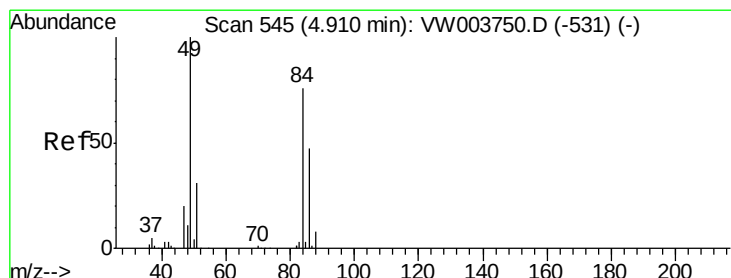
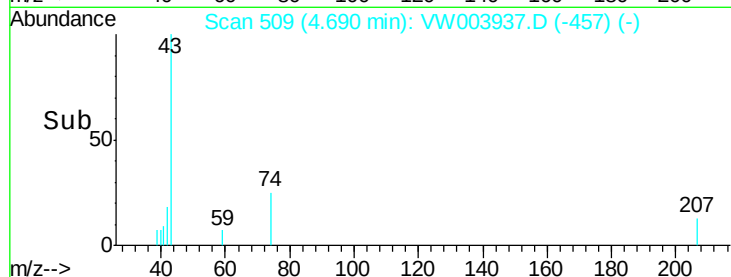
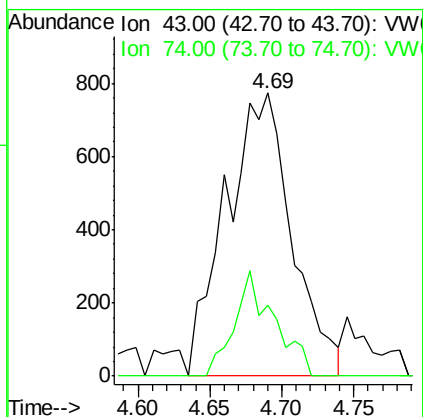
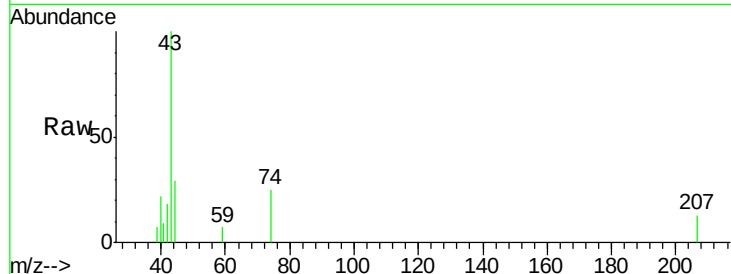




#18
Methvl Acetate
Concen: 2.081 ug/l
RT: 4.69 min Scan# 509
Delta R.T. 0.02 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

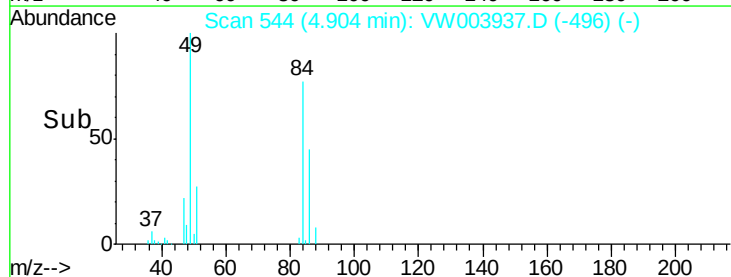
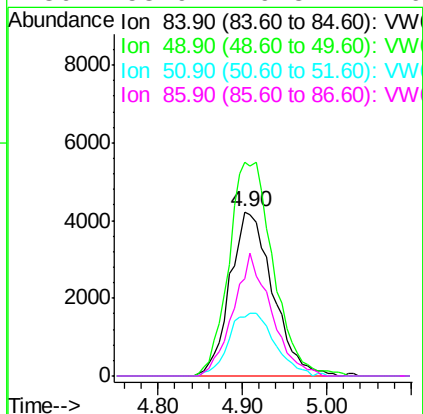
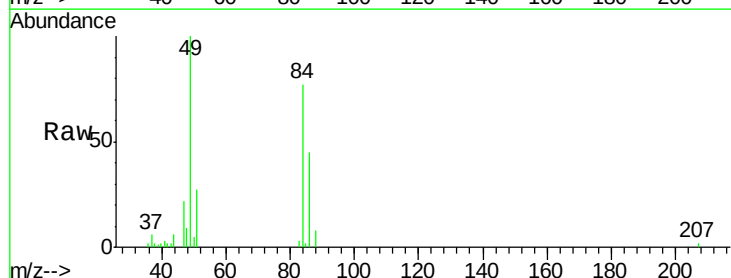
Instrument :
MSVOA_W
ClientSampleId :

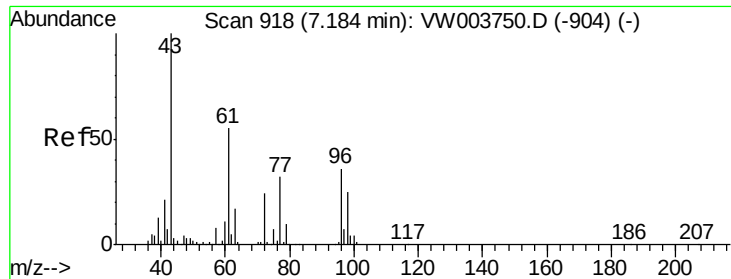
Tot Ion: 43 Resp: 2460
Ion Ratio Lower Upper
43 100
74 22.5 17.3 25.9



#20
Methylene Chloride
Concen: 3.013 ug/l
RT: 4.90 min Scan# 544
Delta R.T. -0.01 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

Tgt Ion: 84 Resp: 14574
Ion Ratio Lower Upper
84 100
49 130.0 105.1 157.7
51 35.5 32.5 48.7
86 58.9 49.8 74.6

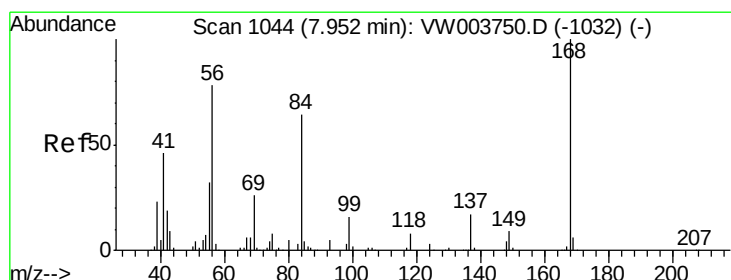
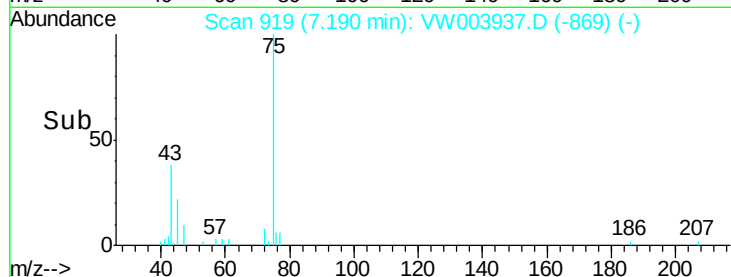
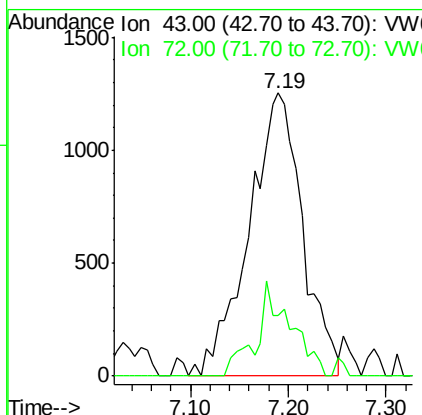
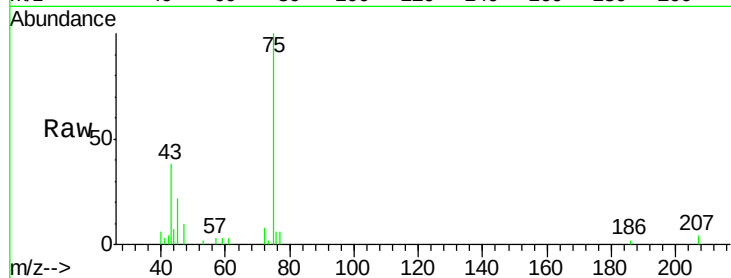




#25
2-Butanone
Concen: 7.306 ug/l
RT: 7.19 min Scan# 919
Delta R.T. 0.01 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

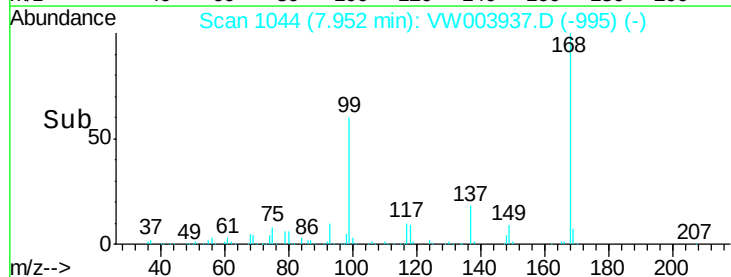
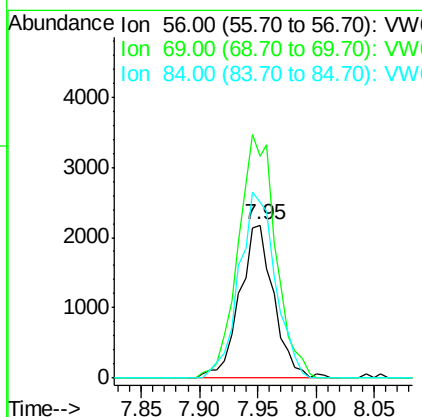
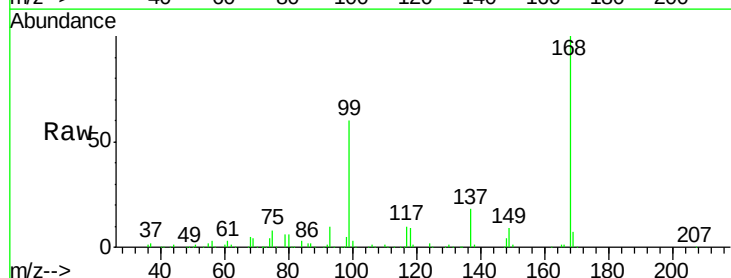
Instrument :
MSVOA_W
ClientSampled :

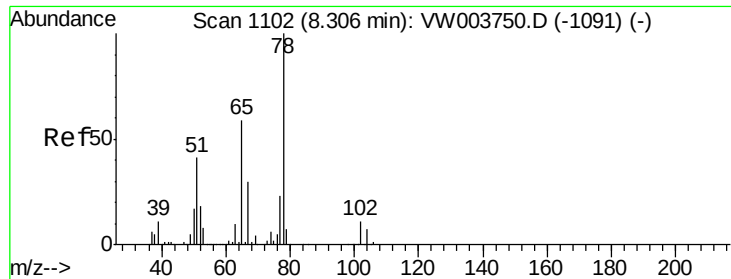
Tot Ion: 43 Resp: 4797
Ion Ratio Lower Upper
43 100
72 21.4 19.4 29.2



#31
Cyclohexane
Concen: 1.271 ug/l
RT: 7.95 min Scan# 1044
Delta R.T. -0.00 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

Tgt Ion: 56 Resp: 4482
Ion Ratio Lower Upper
56 100
69 145.0 26.2 39.4#
84 114.9 65.5 98.3#

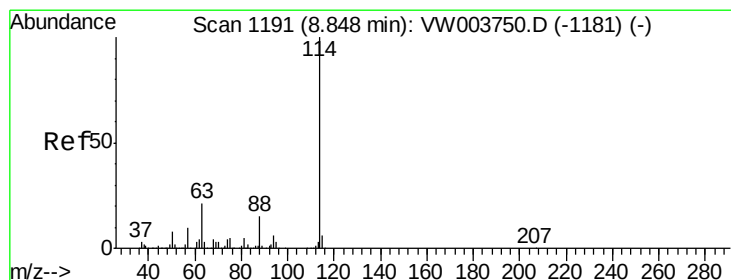
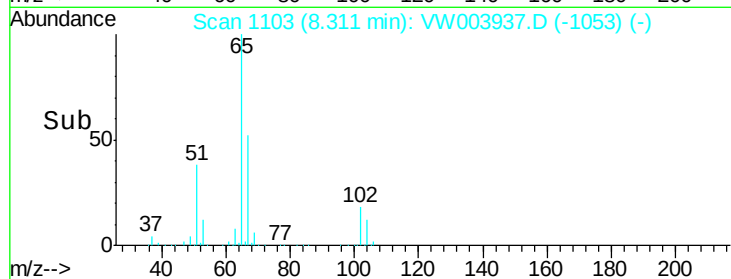
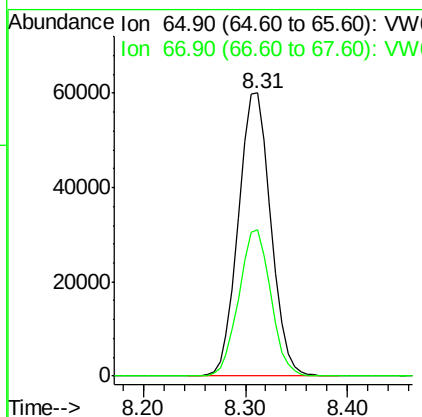
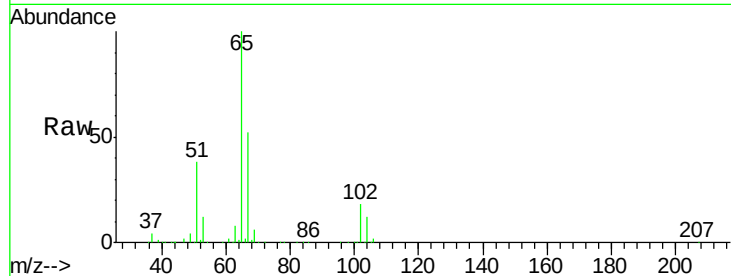




#33
 1,2-Dichloroethane-d4
 Concen: 54.958 ug/l
 RT: 8.31 min Scan# 1103
 Delta R.T. 0.01 min
 Lab File: VW003937.D
 Acq: 14 Jul 2018 00:56

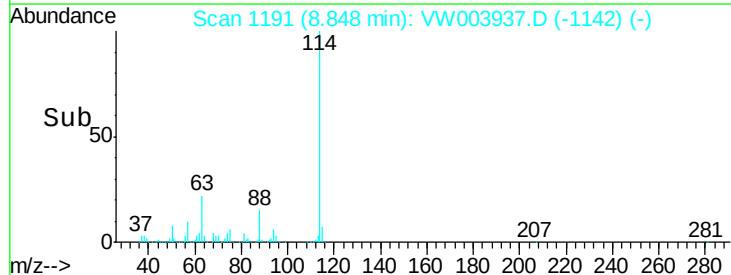
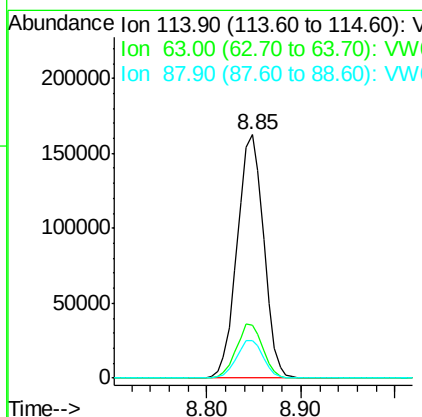
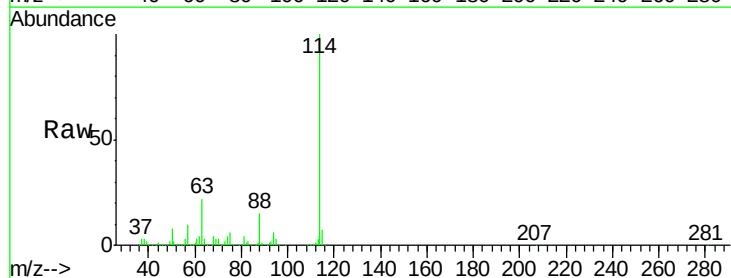
Instrument :
 MSVOA_W
 ClientSampleId :

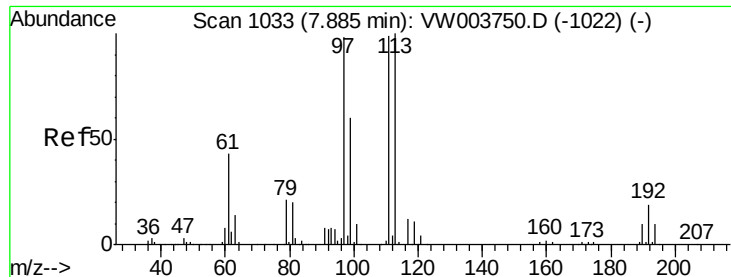
Tot Ion: 65 Resp: 132793
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. -0.00 min
 Lab File: VW003937.D
 Acq: 14 Jul 2018 00:56

Tgt Ion: 114 Resp: 318803
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 41.8
 88 15.4 0.0 30.2

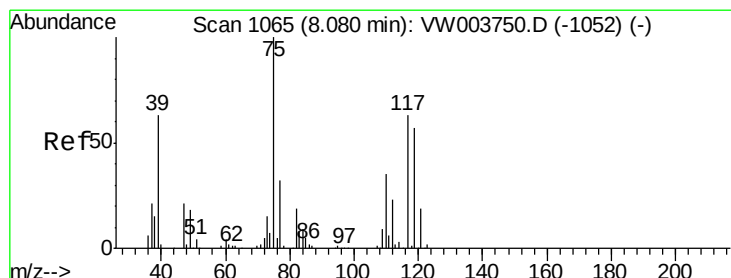
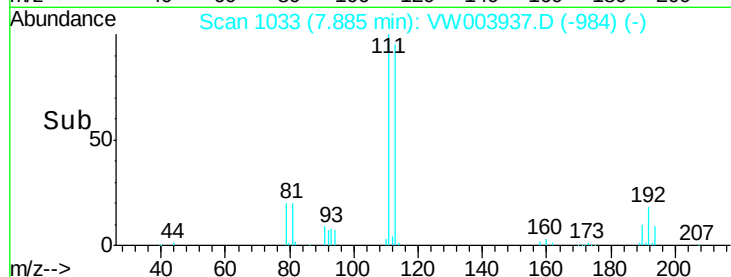
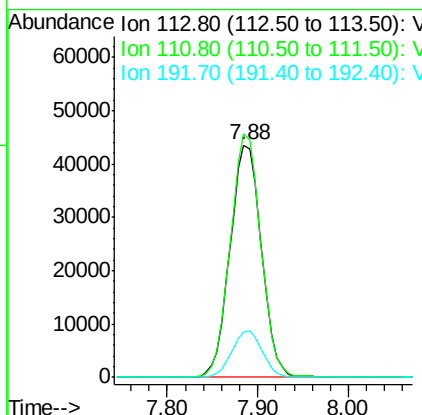
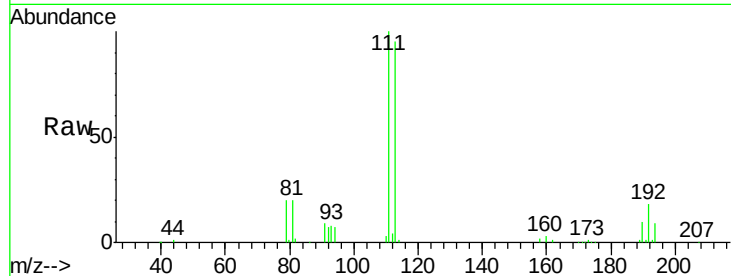




#35
 Dibromofluoromethane
 Concen: 46.901 ug/l
 RT: 7.88 min Scan# 1033
 Delta R.T. -0.00 min
 Lab File: VW003937.D
 Acq: 14 Jul 2018 00:56

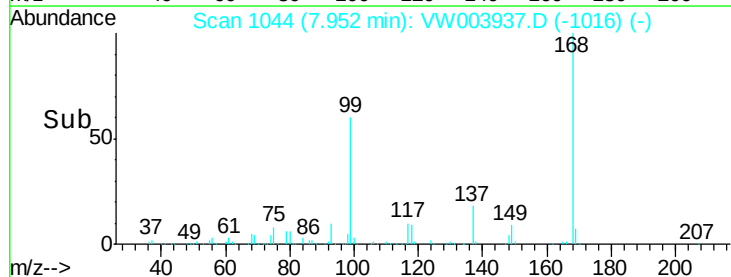
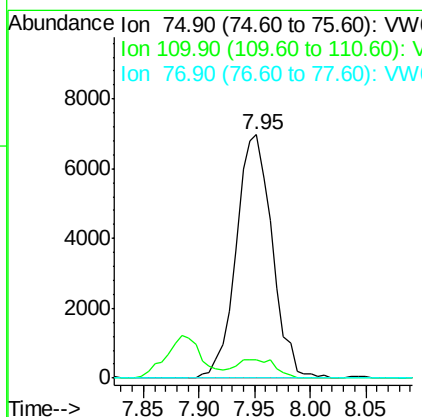
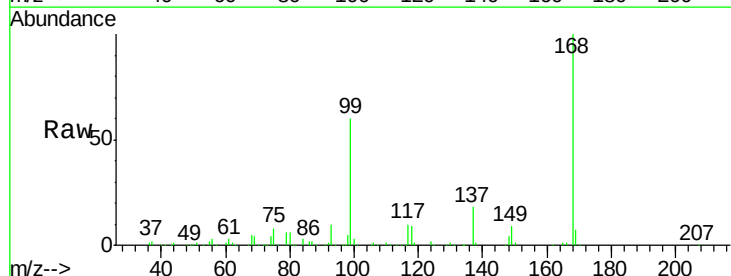
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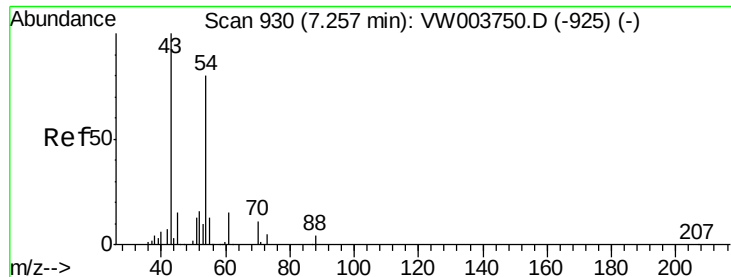
Tot Ion:113 Resp: 104648
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.7 122.5
 192 19.4 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.613 ug/l
 RT: 7.95 min Scan# 1044
 Delta R.T. -0.13 min
 Lab File: VW003937.D
 Acq: 14 Jul 2018 00:56

Tgt Ion: 75 Resp: 15605
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.9 50.6#
 77 0.0 24.8 37.2#

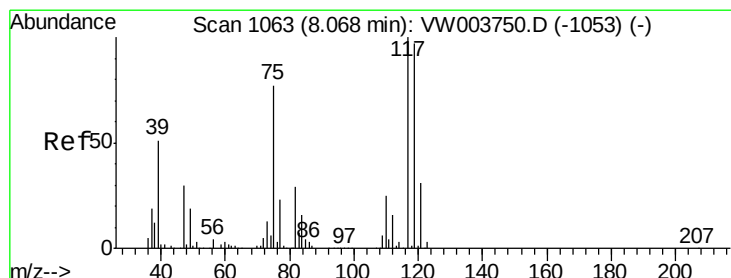
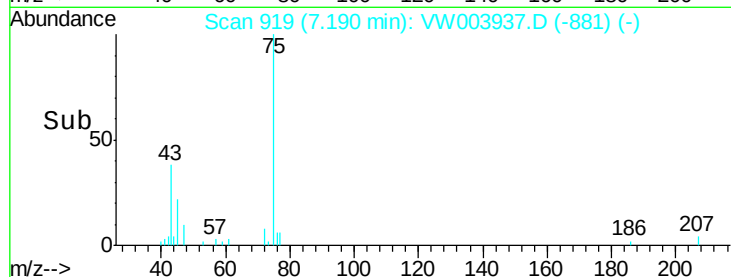
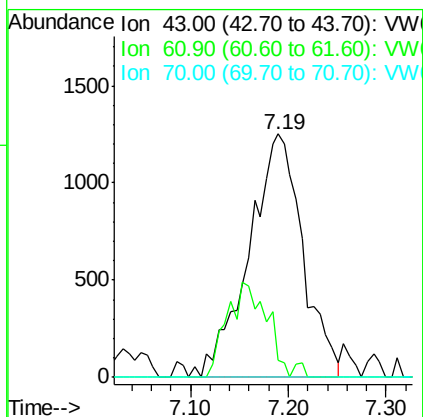
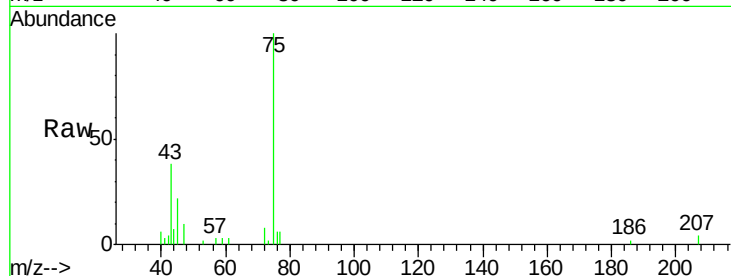




#37
Ethyl Acetate
Concen: 2.914 ug/l
RT: 7.19 min Scan# 919
Delta R.T. -0.07 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

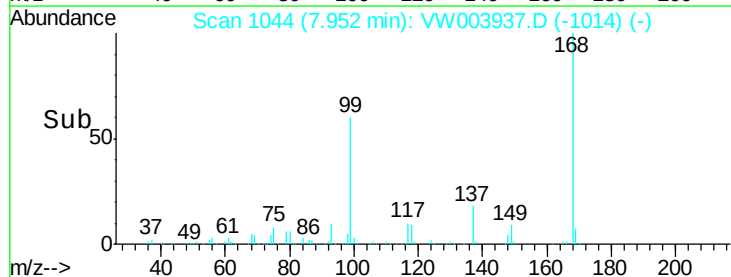
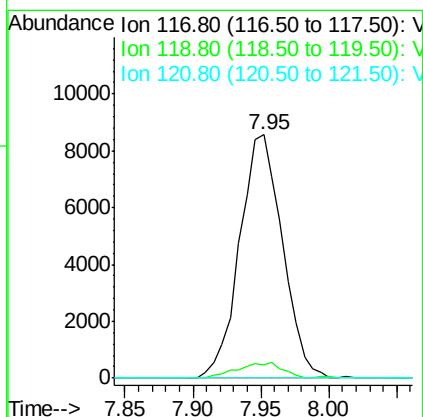
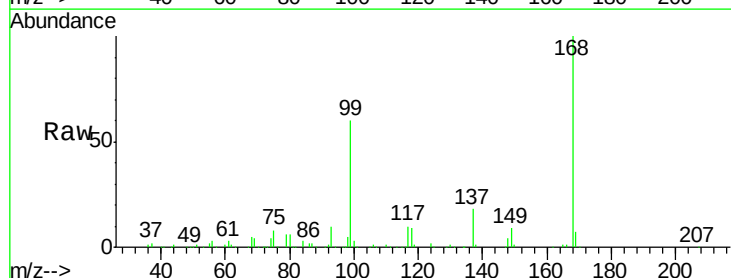
Instrument :
MSVOA_W
ClientSampleId :

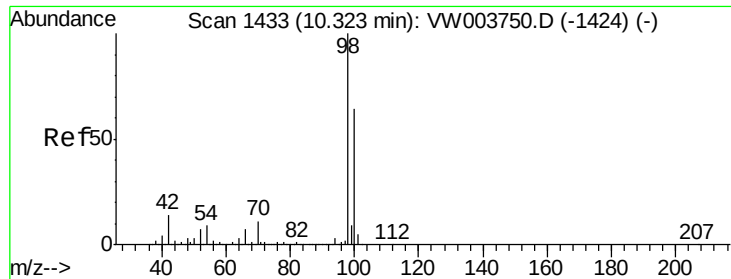
Tot Ion: 43 Resp: 4797
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.5 11.3#



#38
Carbon Tetrachloride
Concen: 5.863 ug/l
RT: 7.95 min Scan# 1044
Delta R.T. -0.12 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

Tgt Ion: 117 Resp: 18855
Ion Ratio Lower Upper
117 100
119 5.4 77.4 116.2#
121 0.0 24.6 37.0#

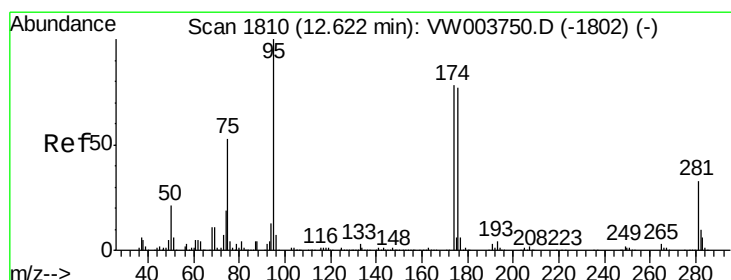
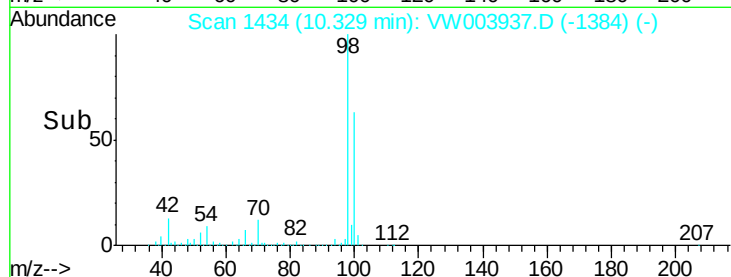
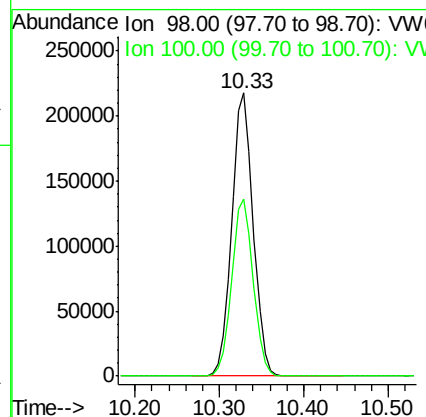
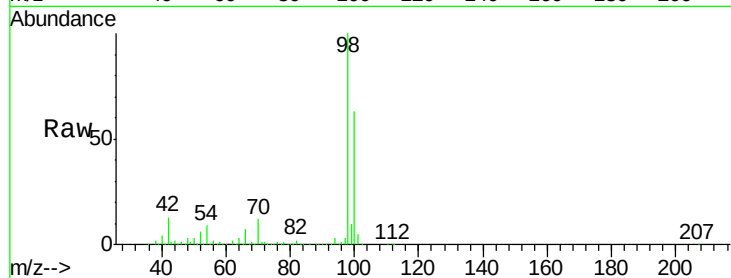




#50
Toluene-d8
Concen: 44.076 ug/l
RT: 10.33 min Scan# 1434
Delta R.T. 0.01 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

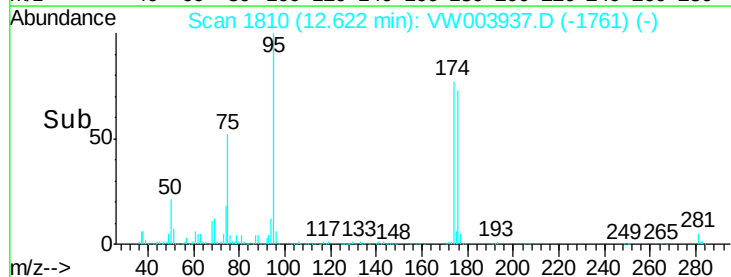
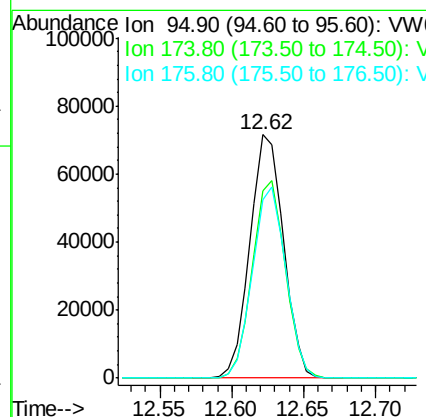
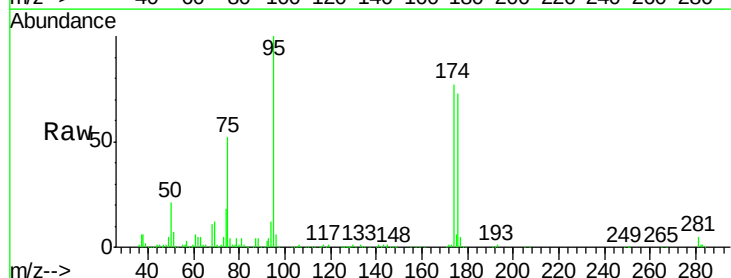
Instrument :
MSVOA_W
ClientSampleId :

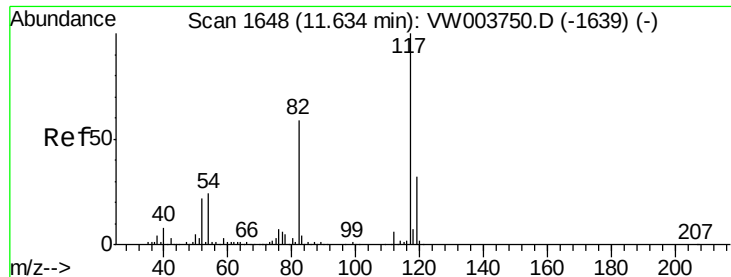
Tot Ion: 98 Resp: 376192
Ion Ratio Lower Upper
98 100
100 62.9 50.8 76.2



#62
4-Bromofluorobenzene
Concen: 37.219 ug/l
RT: 12.62 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

Tgt Ion: 95 Resp: 114937
Ion Ratio Lower Upper
95 100
174 80.3 0.0 163.4
176 78.2 0.0 156.8

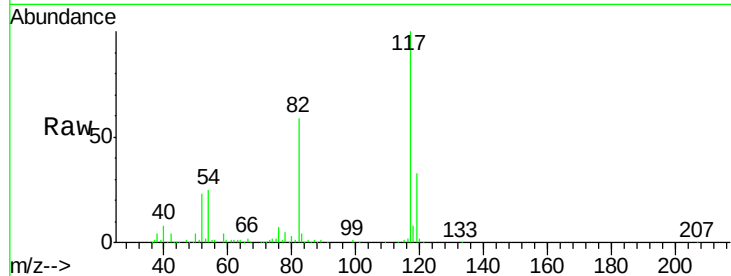




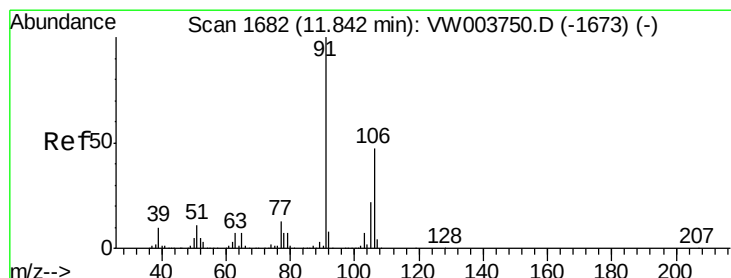
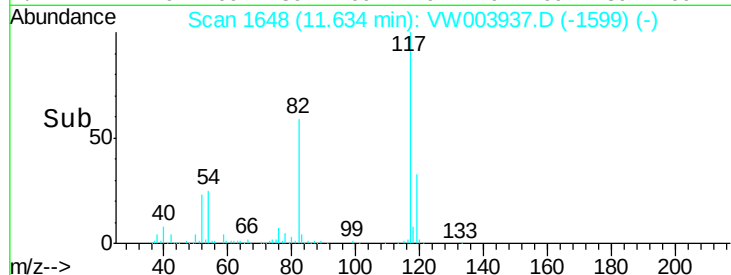
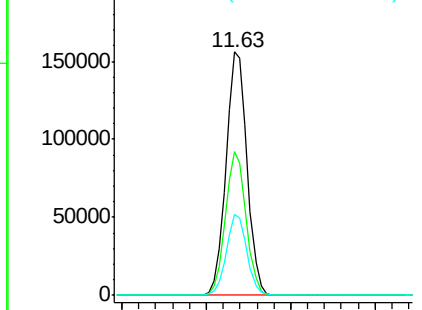
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1648
Delta R.T. -0.00 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:117 Resp: 266389
Ion Ratio Lower Upper
117 100
82 58.8 46.9 70.3
119 33.4 25.5 38.3

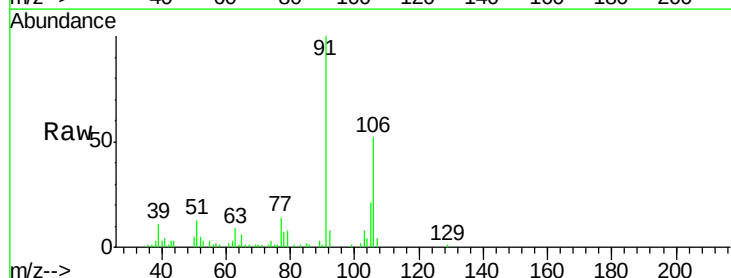


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): V

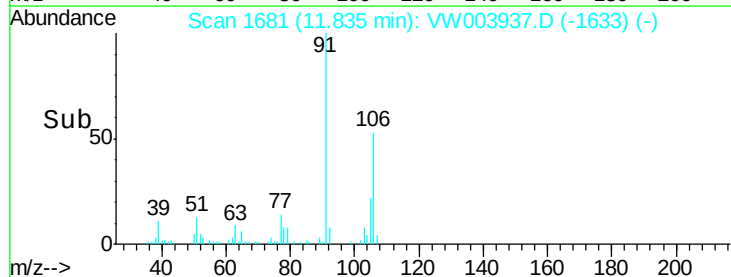
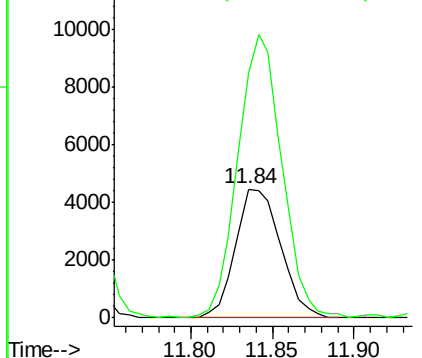


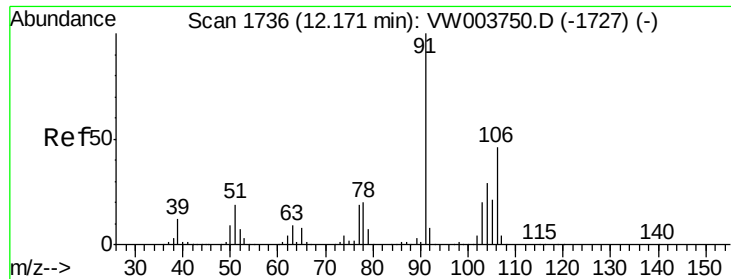
#68
m/p-Xylenes
Concen: 2.235 ug/l
RT: 11.84 min Scan# 1681
Delta R.T. -0.01 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

Tgt Ion:106 Resp: 8594
Ion Ratio Lower Upper
106 100
91 214.9 164.3 246.5



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VW

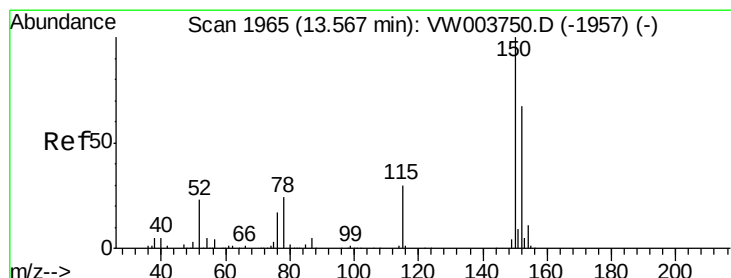
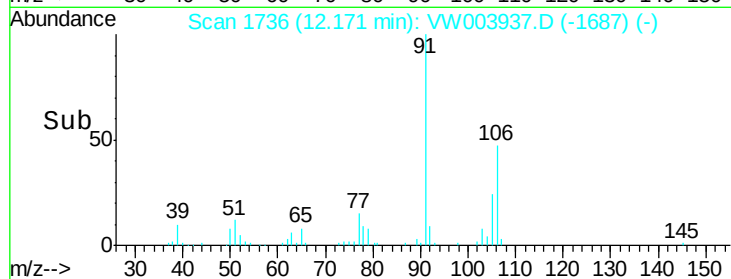
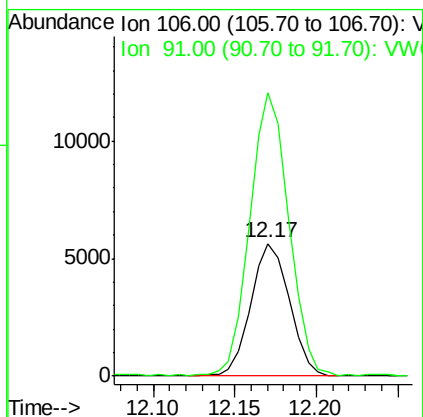
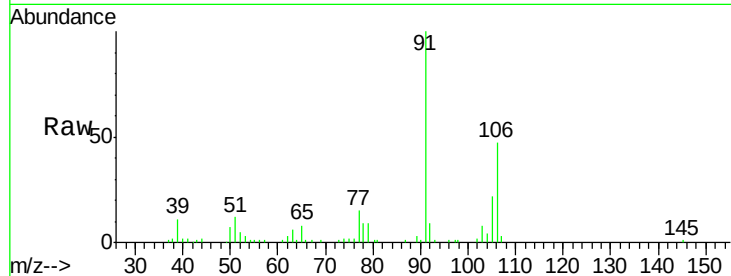




#69
o-Xylene
Concen: 2.617 ug/l
RT: 12.17 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

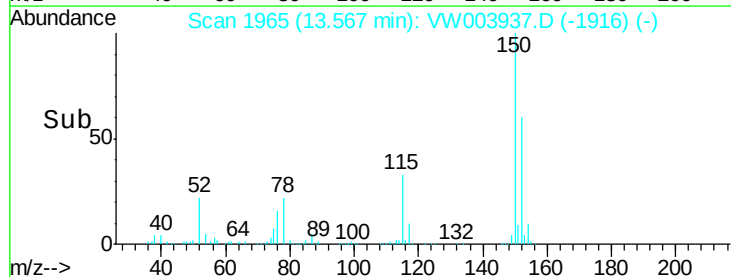
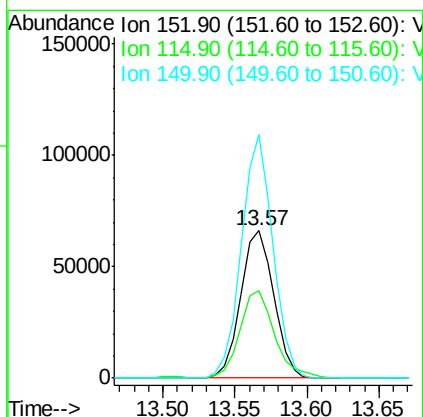
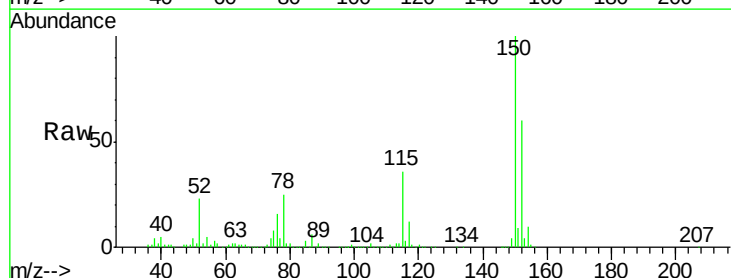
Instrument :
MSVOA_W
ClientSampled :

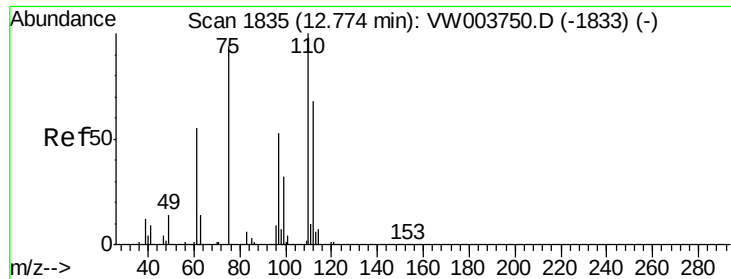
Tot Ion:106 Resp: 9287
Ion Ratio Lower Upper
106 100
91 214.7 109.1 327.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1965
Delta R.T. -0.00 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

Tgt Ion:152 Resp: 104679
Ion Ratio Lower Upper
152 100
115 63.2 28.9 86.8
150 157.4 0.0 342.4





#76

1,2,3-Trichloropropane

Concen: 59.033 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. -0.15 min

Lab File: VW003937.D

Acq: 14 Jul 2018 00:56

Instrument :

MSVOA_W

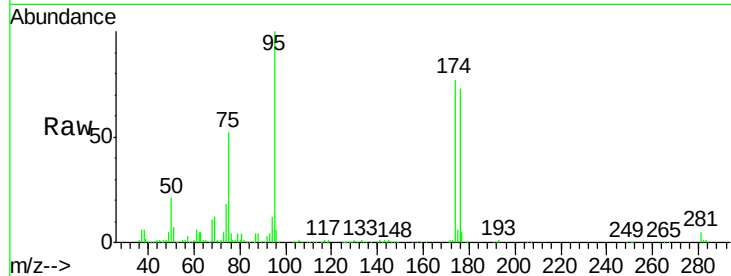
ClientSampleId :

Tot Ion: 75 Resp: 60682

Ion Ratio Lower Upper

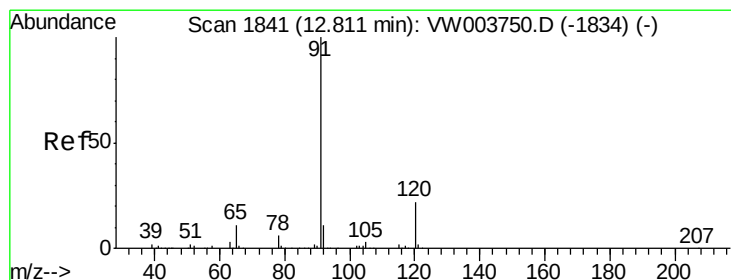
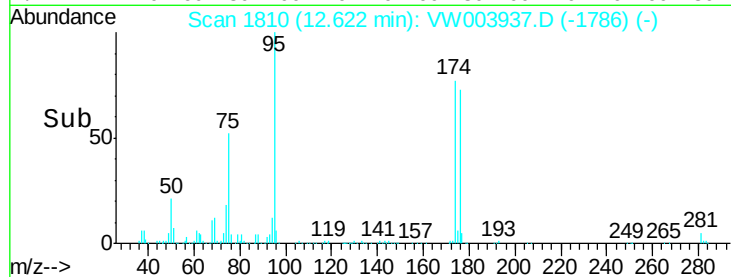
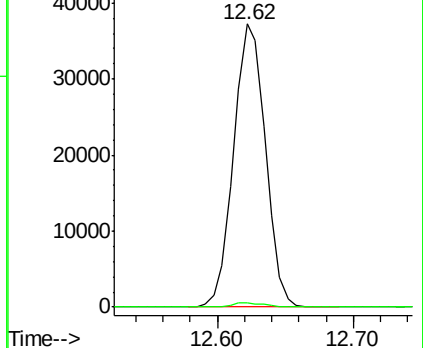
75 100

77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#78

n-propylbenzene

Concen: 2.360 ug/l

RT: 12.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VW003937.D

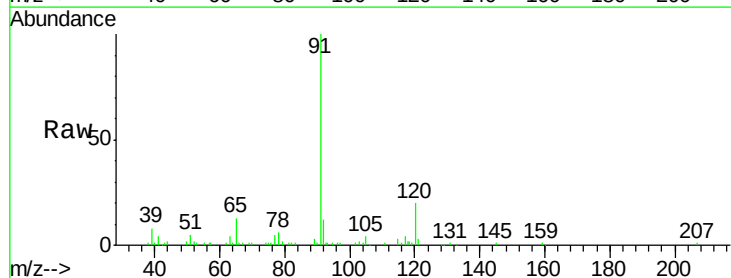
Acq: 14 Jul 2018 00:56

Tgt Ion: 91 Resp: 21004

Ion Ratio Lower Upper

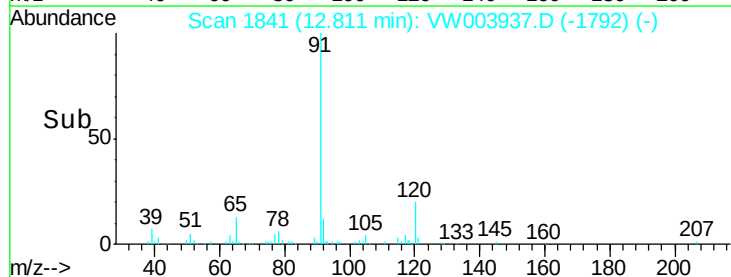
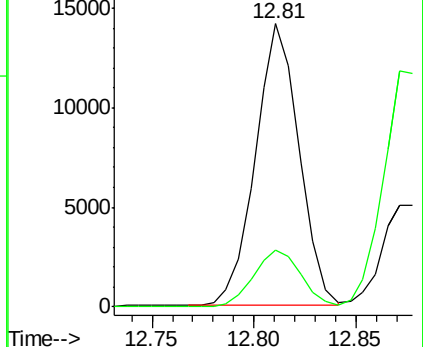
91 100

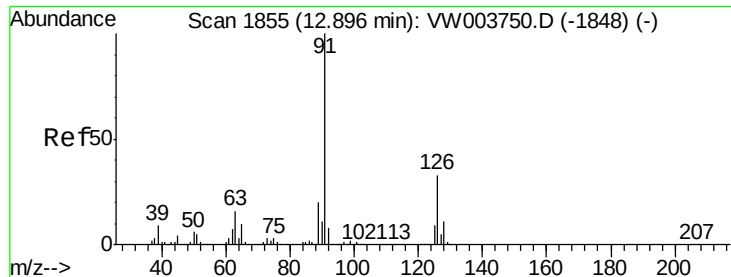
120 22.0 11.2 33.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 1.671 ug/l

RT: 12.87 min Scan# 1851

Delta R.T. -0.02 min

Lab File: VW003937.D

Acq: 14 Jul 2018 00:56

Instrument :

MSVOA_W

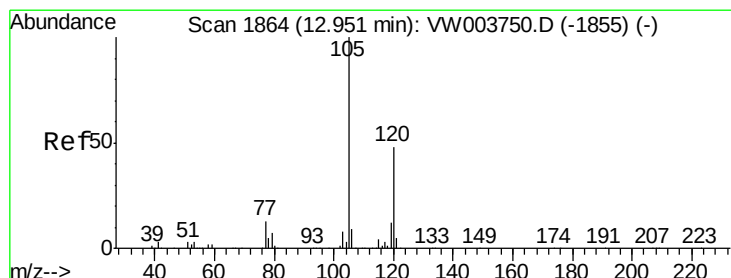
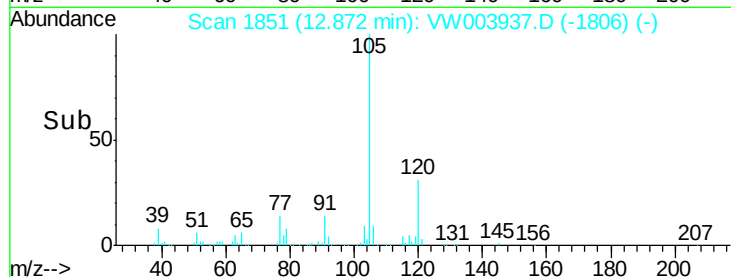
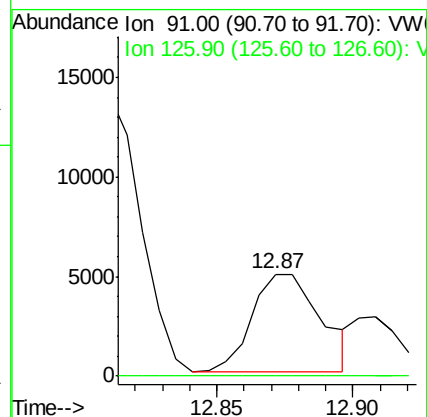
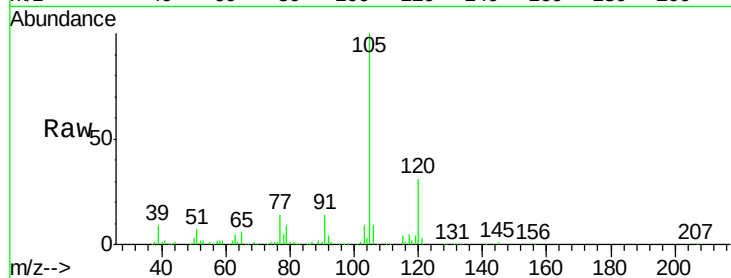
ClientSampleId :

Tot Ion: 91 Resp: 8544

Ion Ratio Lower Upper

91 100

126 0.0 17.0 51.0#



#80

1,3,5-Trimethylbenzene

Concen: 7.739 ug/l

RT: 12.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VW003937.D

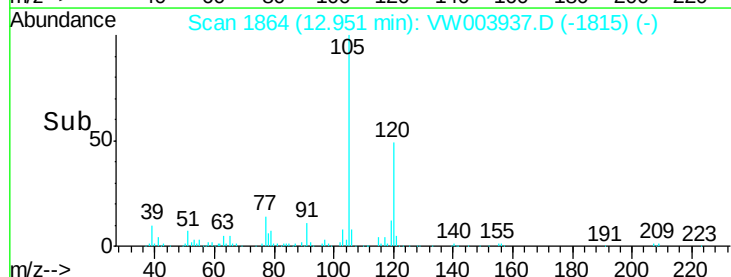
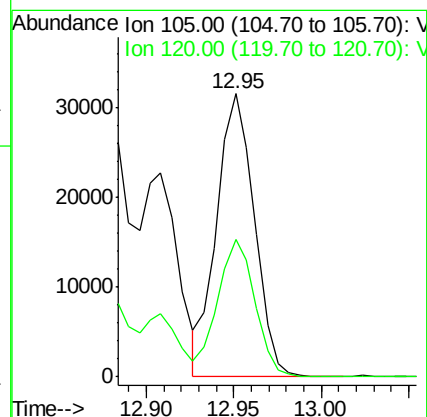
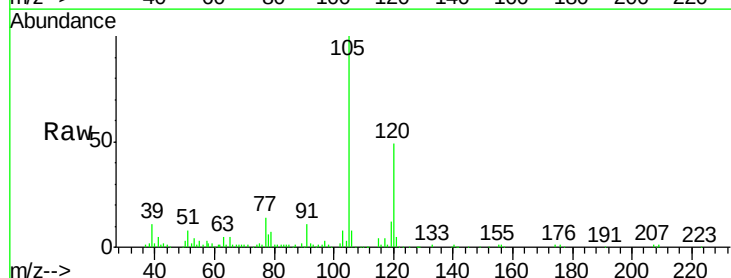
Acq: 14 Jul 2018 00:56

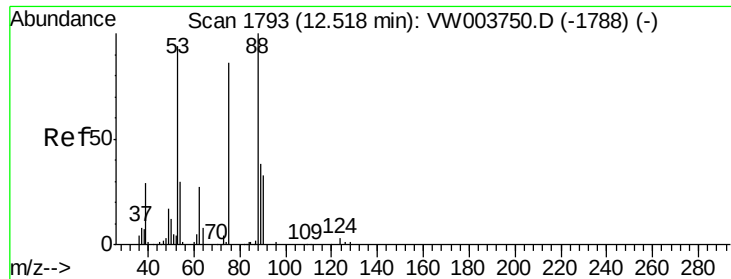
Tgt Ion: 105 Resp: 47283

Ion Ratio Lower Upper

105 100

120 48.2 24.2 72.6





#81

trans-1,4-Dichloro-2-butene

Concen: 144.409 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW003937.D

Acq: 14 Jul 2018 00:56

Instrument :

MSVOA_W

ClientSampleId :

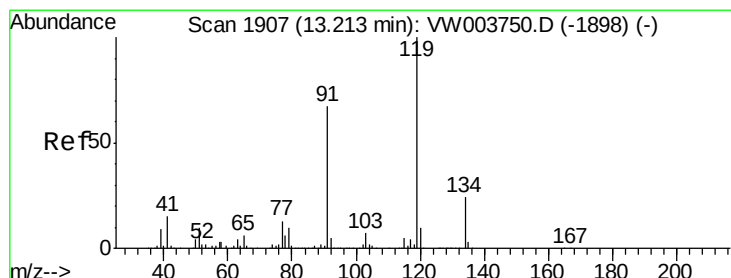
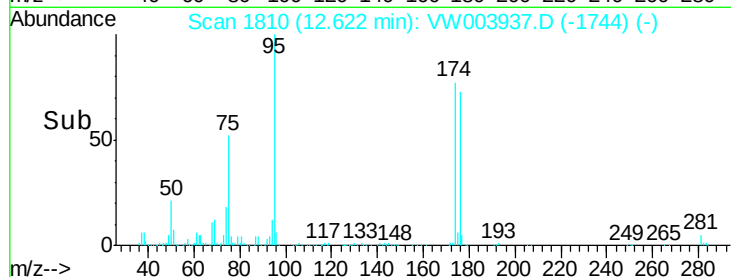
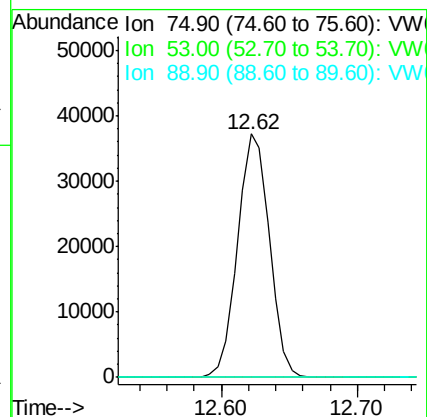
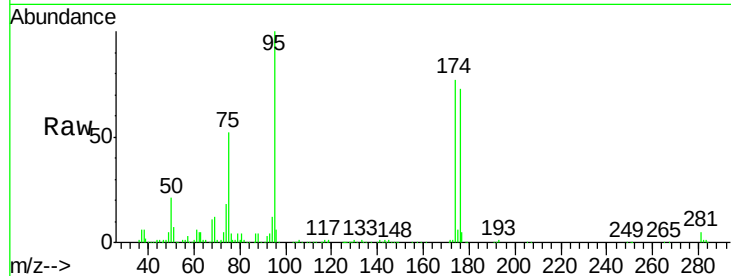
Tot Ion: 75 Resp: 60682

Ion Ratio Lower Upper

75 100

53 0.4 85.0 127.6#

89 0.0 36.3 54.5#



#83

tert-Butylbenzene

Concen: 4.077 ug/l

RT: 13.26 min Scan# 1915

Delta R.T. 0.05 min

Lab File: VW003937.D

Acq: 14 Jul 2018 00:56

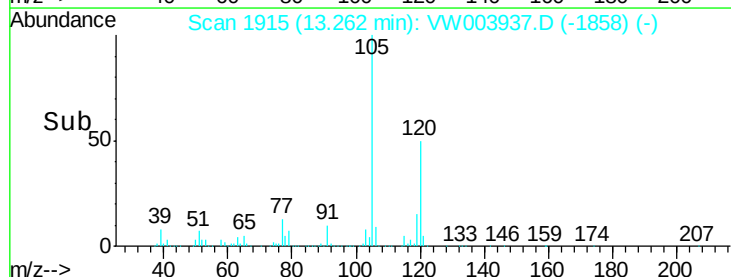
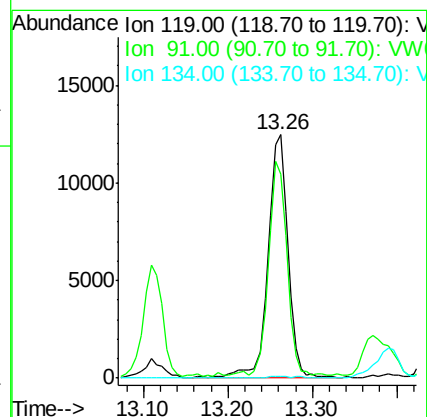
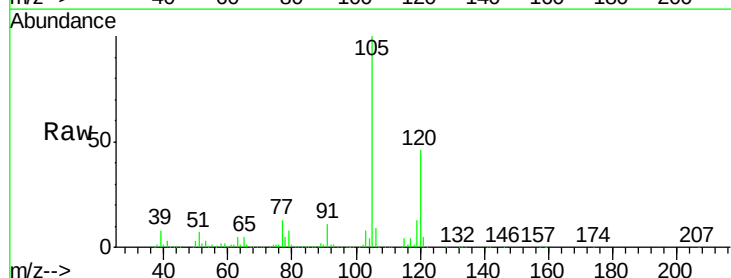
Tgt Ion: 119 Resp: 20545

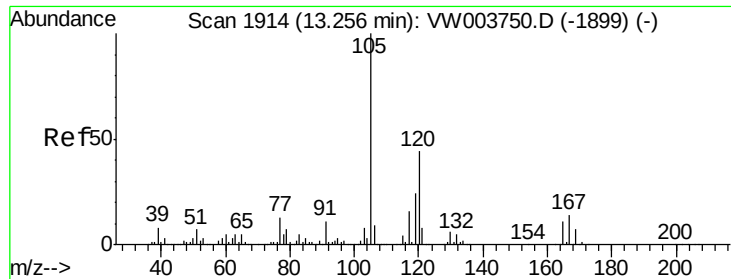
Ion Ratio Lower Upper

119 100

91 81.2 33.0 98.9

134 0.0 12.8 38.4#

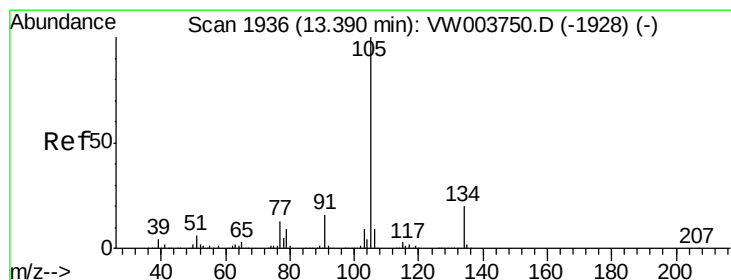
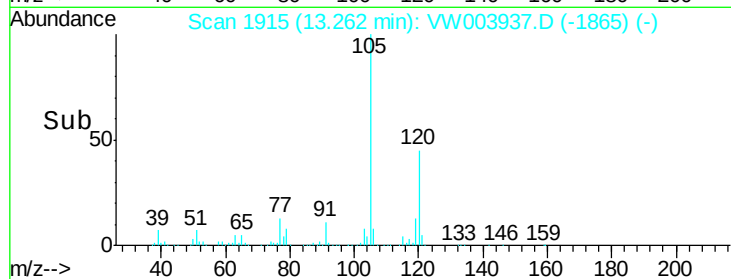
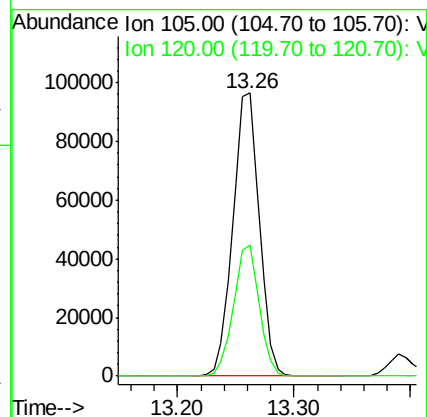
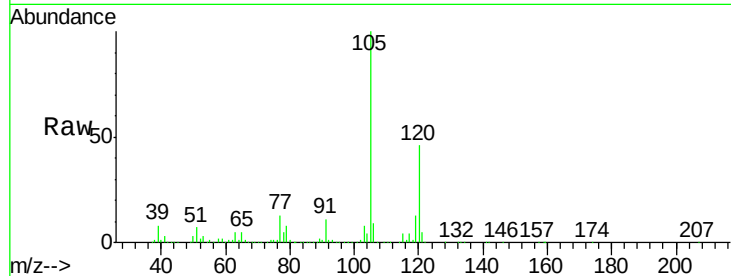




#84
1,2,4-Trimethylbenzene
Concen: 24.115 ug/l
RT: 13.26 min Scan# 1915
Delta R.T. 0.01 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

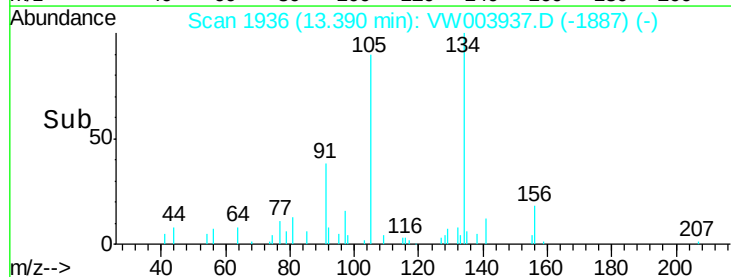
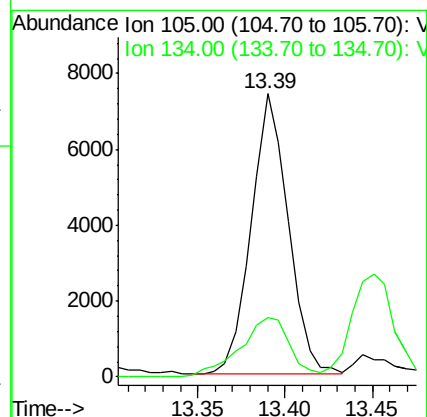
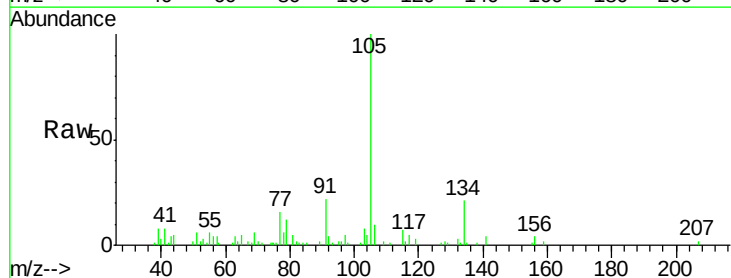
Instrument :
MSVOA_W
ClientSampleId :

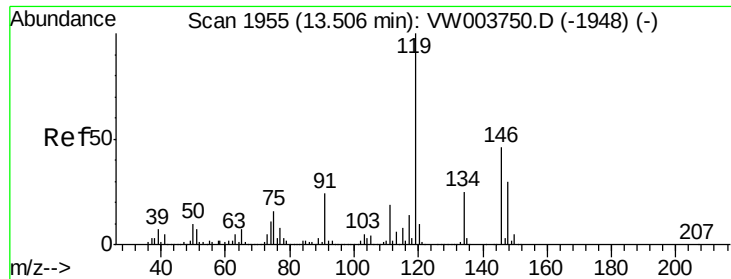
Tot Ion:105 Resp: 153068
Ion Ratio Lower Upper
105 100
120 45.0 22.0 66.0



#85
sec-Butylbenzene
Concen: 1.451 ug/l
RT: 13.39 min Scan# 1936
Delta R.T. -0.00 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

Tgt Ion:105 Resp: 10934
Ion Ratio Lower Upper
105 100
134 28.5 9.8 29.4

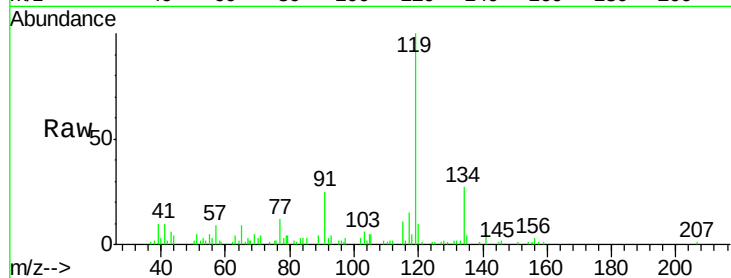




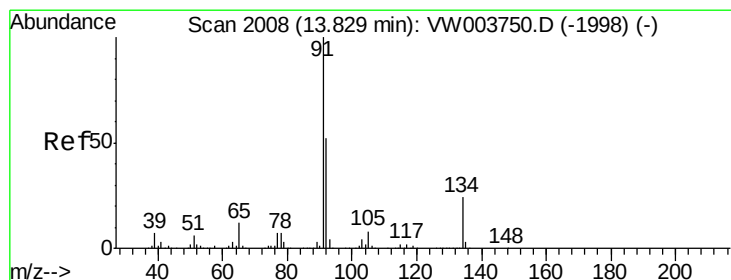
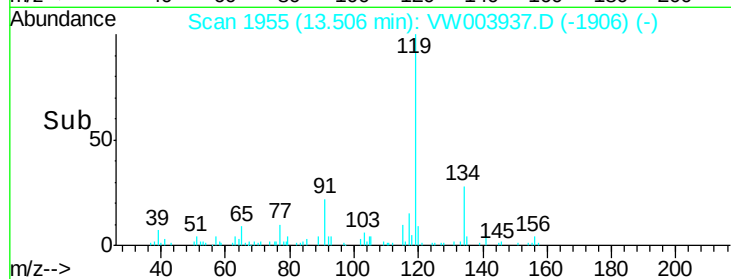
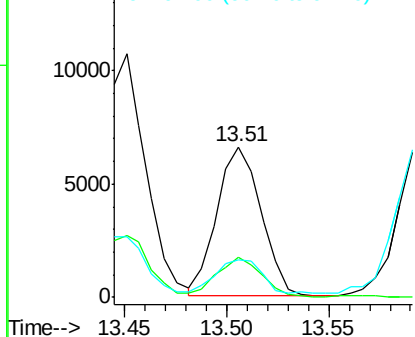
#86
p-Isopropyltoluene
Concen: 1.493 ug/l
RT: 13.51 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
134	28.5	13.1	39.1
91	23.9	11.9	35.9

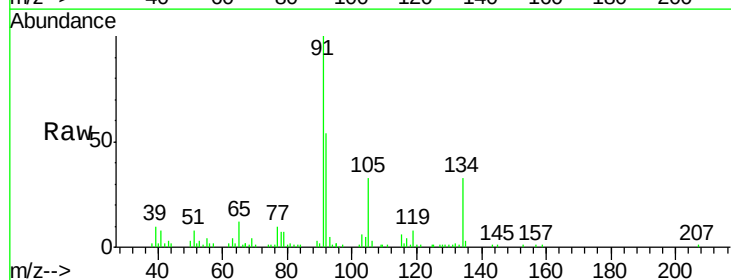


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

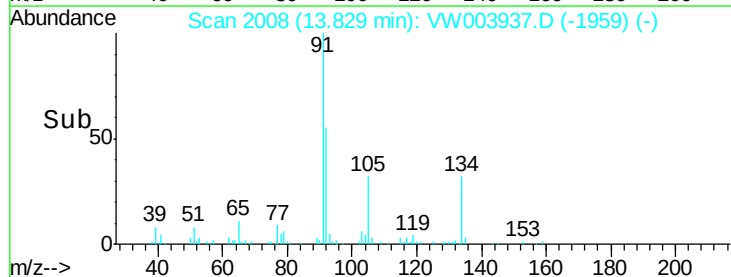
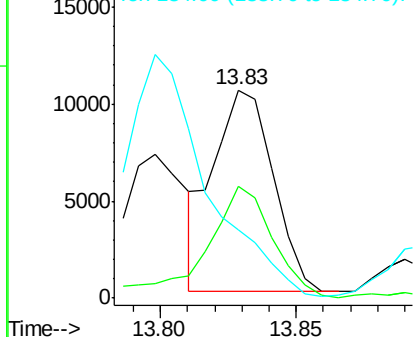


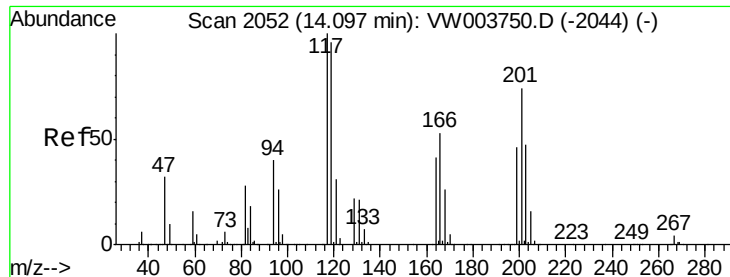
#89
n-Butylbenzene
Concen: 2.439 ug/l
RT: 13.83 min Scan# 2008
Delta R.T. -0.00 min
Lab File: VW003937.D
Acq: 14 Jul 2018 00:56

Tgt Ion	Ratio	Lower	Upper
91	100		
92	62.8	26.1	78.3
134	0.0	12.4	37.4#



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 92.00 (91.70 to 92.70): V
Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 4.500 ug/l

RT: 14.10 min Scan# 2053

Delta R.T. 0.01 min

Lab File: VW003937.D

Acq: 14 Jul 2018 00:56

Instrument :

MSVOA_W

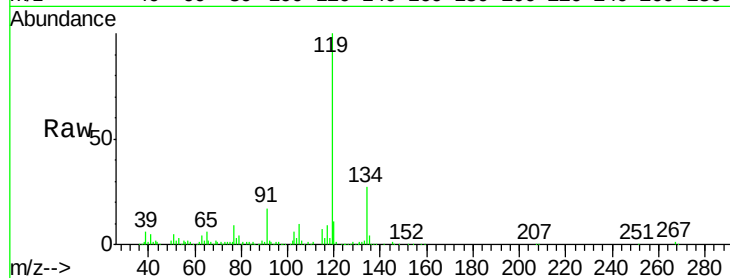
ClientSampleId :

Tot Ion:117 Resp: 5710

Ion Ratio Lower Upper

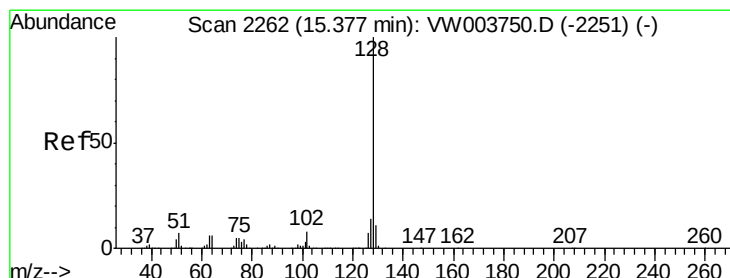
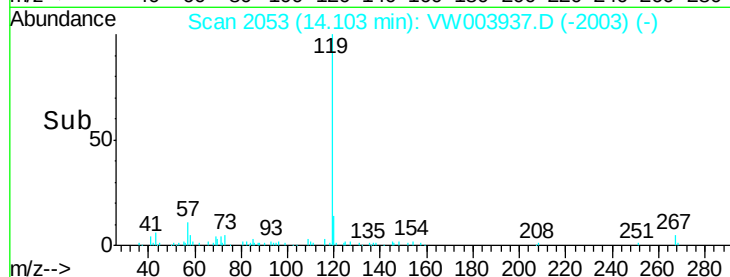
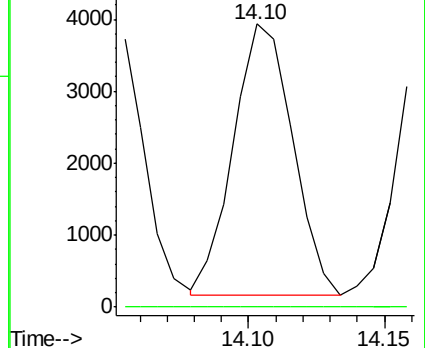
117 100

201 0.0 39.2 117.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 3.607 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. -0.00 min

Lab File: VW003937.D

Acq: 14 Jul 2018 00:56

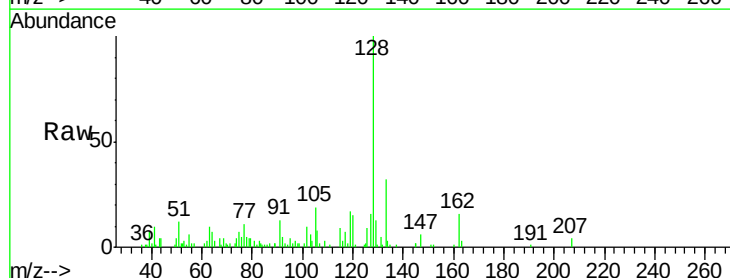
Tgt Ion:128 Resp: 14003

Ion Ratio Lower Upper

128 100

127 12.5 10.8 16.2

129 15.0 8.6 13.0#



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

