

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW092718\
 Data File : VW005710.D
 Acq On : 27 Sep 2018 19:35
 Operator : VA/AP
 Sample : J5093-01
 Misc : 5.76G/5ML/MSVOA_W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TOP-SOIL

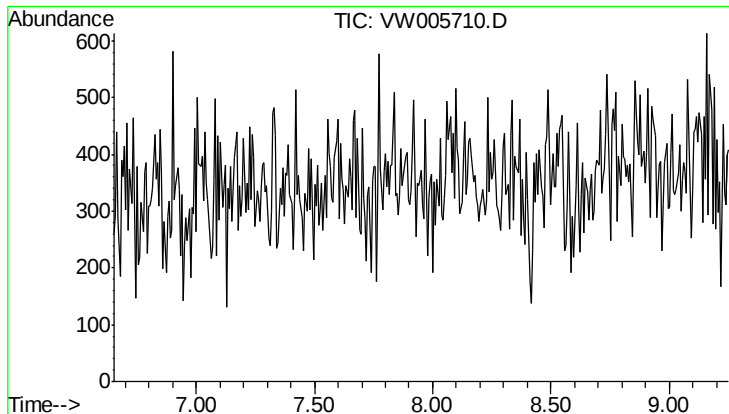
Quant Time: Sep 28 01:23:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092118S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 21 09:05:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-7.95
34) 1,4-Difluorobenzene	0.00	114	0	0.00	ug/l	-8.85
63) Chlorobenzene-d5	11.63	117	232	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.49	152	2156	50.00	ug/l	-0.07

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	0.00	65	0	0.00	ug/l	
Spiked Amount				50.000		
			Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount				50.000		
			Recovery	=	0.00%	
50) Toluene-d8	10.46	98	77	0.00	ug/l	0.13
Spiked Amount				50.000		
			Recovery	=	0.00%	
62) 4-Bromofluorobenzene	12.63	95	128	0.00	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	0.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
65) Chlorobenzene	11.68	112	331	67.207	ug/l #	46
66) 1,1,1,2-Tetrachloroethane	11.59	131	176	99.290	ug/l	64
67) Ethyl Benzene	11.73	91	299	34.202	ug/l #	44
68) m/p-Xylenes	11.91	106	21	6.358	ug/l #	1
69) o-Xylene	12.23	106	61	19.721	ug/l	43
70) Styrene	12.12	104	53	10.182	ug/l #	70
71) Bromoform	12.35	173	68	72.271	ug/l #	29
73) Isopropylbenzene	12.46	105	288	1.926	ug/l	89
74) N-amyl acetate	12.29	43	226	6.675	ug/l #	57
75) 1,1,2,2-Tetrachloroethane	12.70	83	215	8.657	ug/l #	26
76) 1,2,3-Trichloropropane	12.80	75	23	1.251	ug/l #	100
77) Bromobenzene	12.94	156	29711	847.846	ug/l #	1
78) n-propylbenzene	12.82	91	450	2.486	ug/l #	53
79) 2-Chlorotoluene	12.94	91	247	2.359	ug/l	83
81) trans-1,4-Dichloro-2-buten	12.51	75	42	5.147	ug/l #	1
85) sec-Butylbenzene	13.49	105	972	6.136	ug/l	95
86) p-Isopropyltoluene	13.47	119	165	1.162	ug/l #	1
87) 1,3-Dichlorobenzene	13.53	146	97	1.354	ug/l #	1
89) n-Butylbenzene	13.82	91	429	3.203	ug/l #	47
90) Hexachloroethane	14.10	117	41	1.593	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.49	75	48	10.145	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.16	180	177	3.923	ug/l #	70
95) Naphthalene	15.39	128	214	2.820	ug/l #	1

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



#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 7.95 min

Lab File: VW005710.D

Acq: 27 Sep 2018 19:35

Tgt Ion: 168

Sig Exp Ratio

168 100

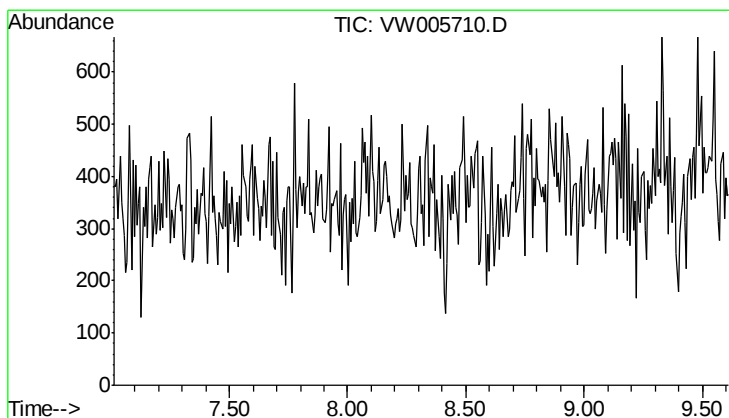
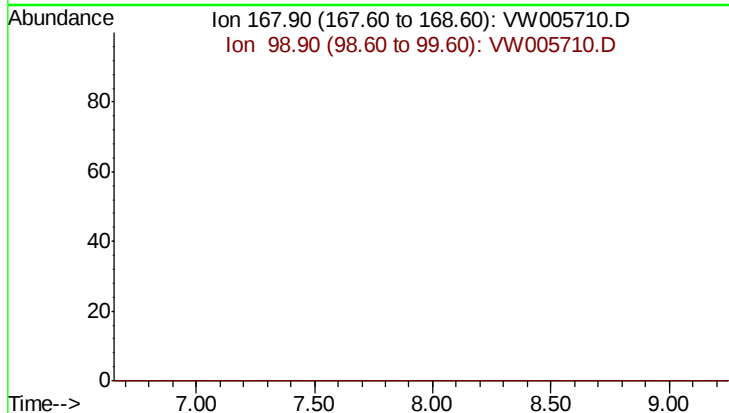
99 60.5

Instrument :

MSVOA_W

ClientSampleId :

TOP-SOIL



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 8.31 min

Lab File: VW005710.D

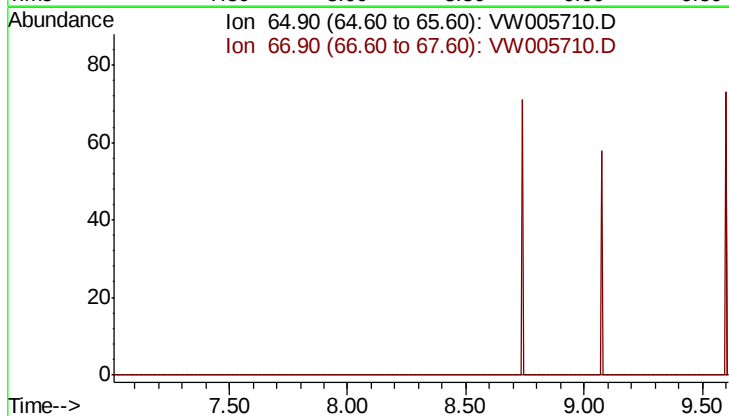
Acq: 27 Sep 2018 19:35

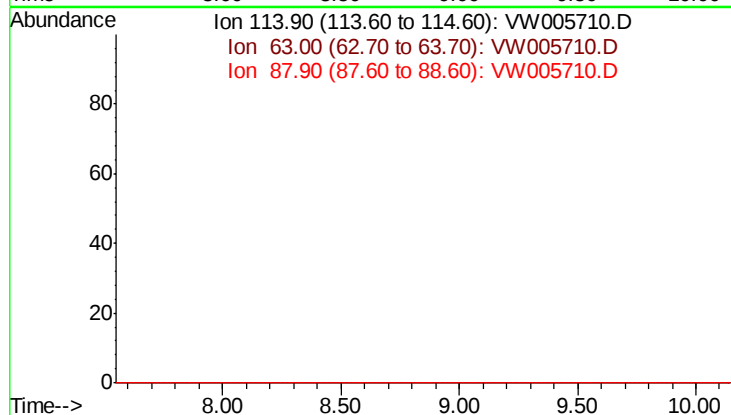
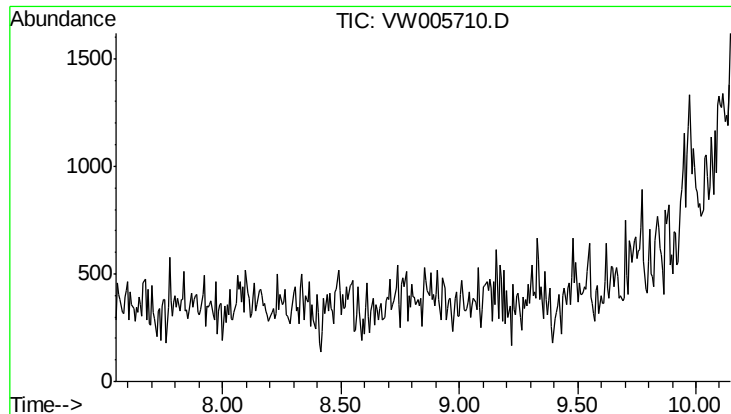
Tgt Ion: 65

Sig Exp Ratio

65 100

67 50.3





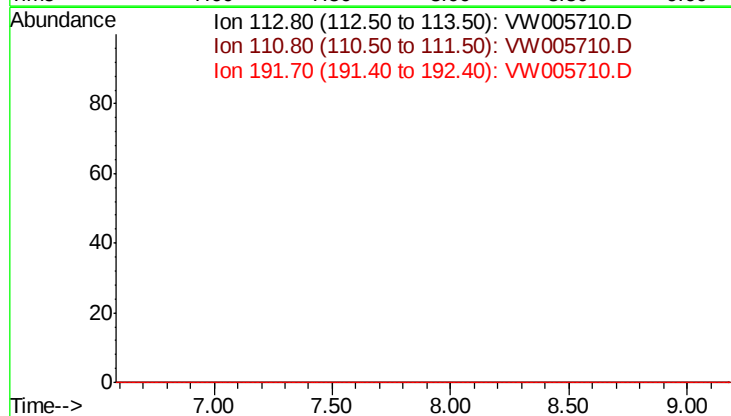
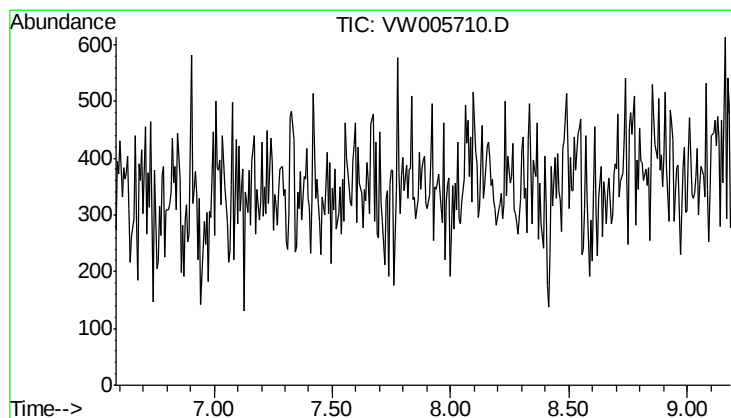
#34
 1,4-Difluorobenzene
 Concen: 0.000 ug/l
 Expected RT: 8.85 min

Lab File: VW005710.D
 Acq: 27 Sep 2018 19:35

Instrument :
 MSVOA_W
 ClientSampleId :
 TOP-SOIL

Tgt Ion: 114

Sig	Exp Ratio
114	100
63	21.5
88	16.5

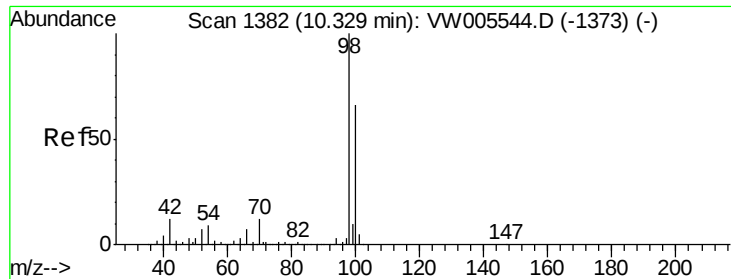


#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 7.88 min

Lab File: VW005710.D
 Acq: 27 Sep 2018 19:35

Tgt Ion: 113

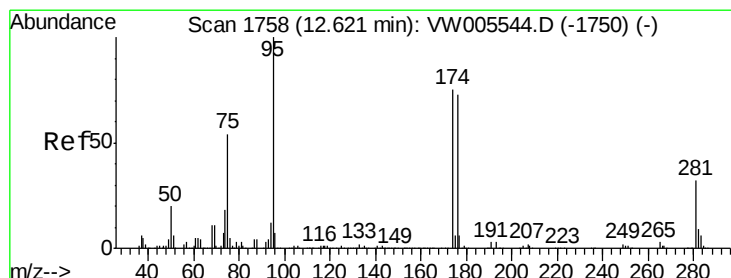
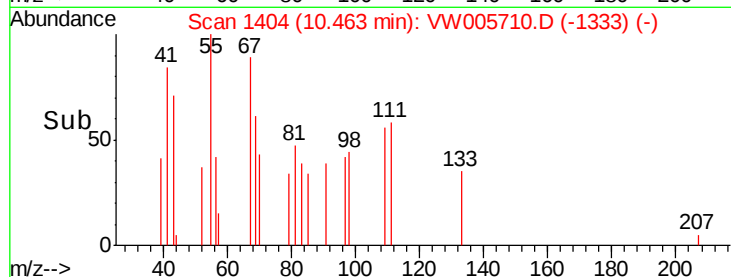
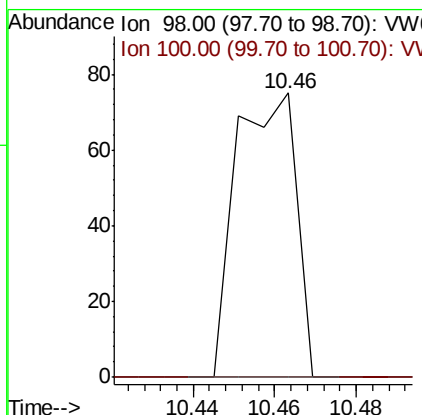
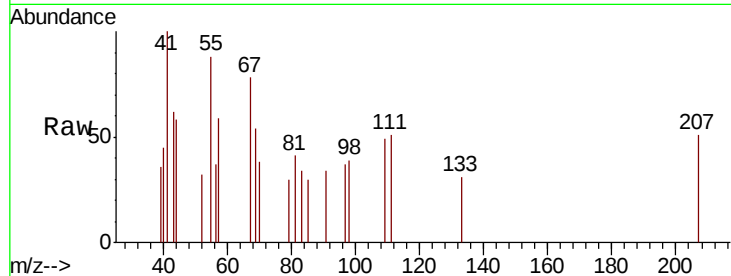
Sig	Exp Ratio
113	100
111	103.2
192	21.2



#50
Toluene-d8
Concen: 0.000 ug/l
RT: 10.46 min Scan# 1404
Delta R.T. 0.13 min
Lab File: VW005710.D
Acq: 27 Sep 2018 19:35

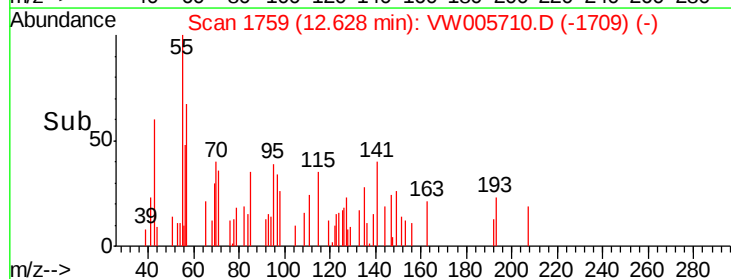
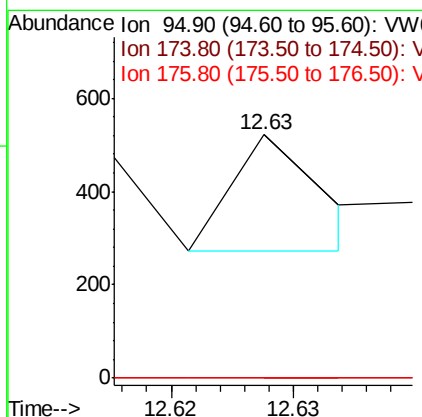
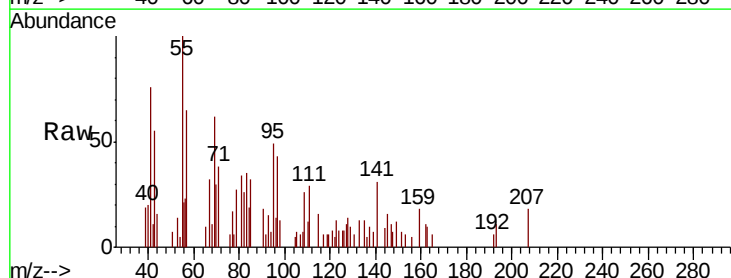
Instrument :
MSVOA_W
ClientSampled :
TOP-SOIL

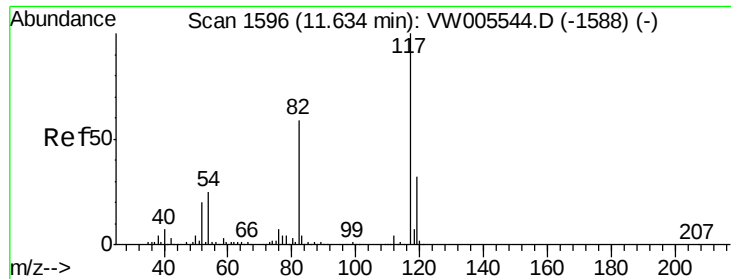
Tgt Ion: 98 Resp: 77
Ion Ratio Lower Upper
98 100
100 0.0 51.6 77.4#



#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
RT: 12.63 min Scan# 1759
Delta R.T. 0.01 min
Lab File: VW005710.D
Acq: 27 Sep 2018 19:35

Tgt Ion: 95 Resp: 128
Ion Ratio Lower Upper
95 100
174 0.0 0.0 163.8
176 0.0 0.0 158.0

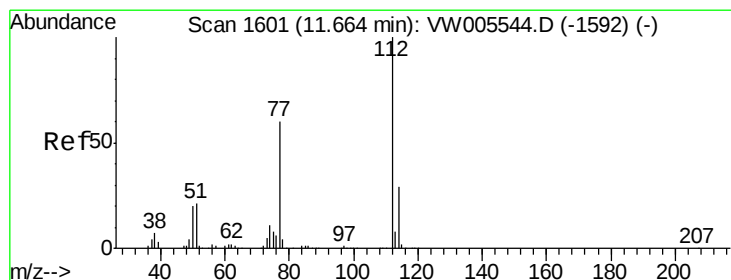
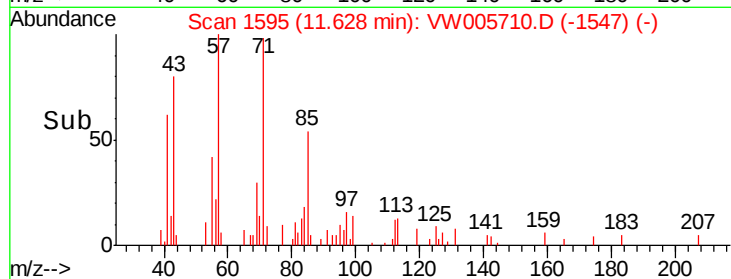
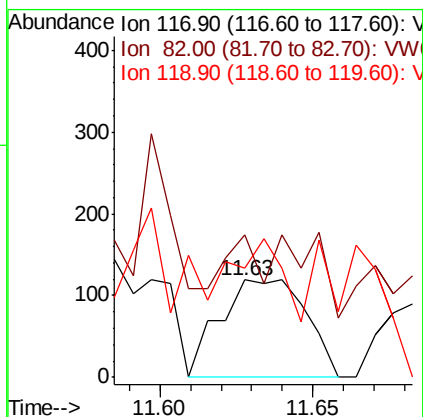
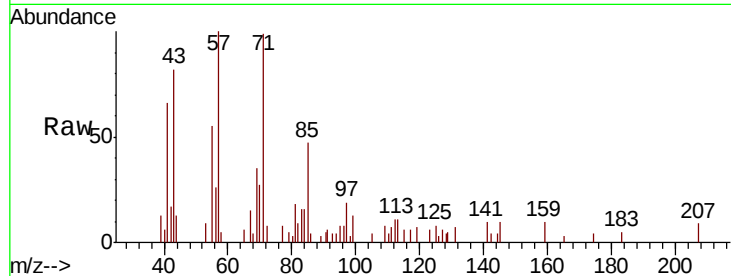




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW005710.D
Acq: 27 Sep 2018 19:35

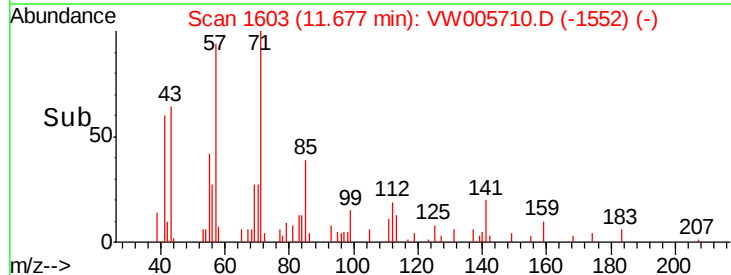
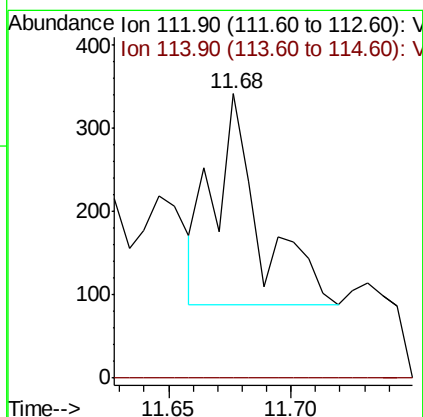
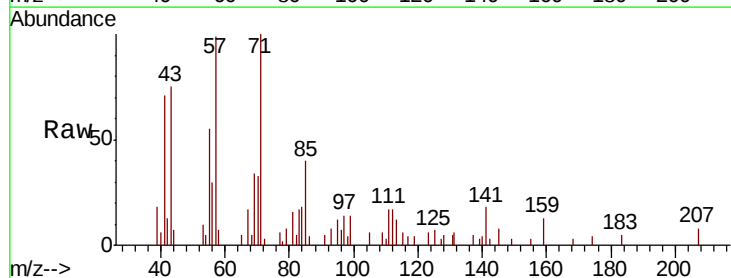
Instrument :
MSVOA_W
ClientSampled :
TOP-SOIL

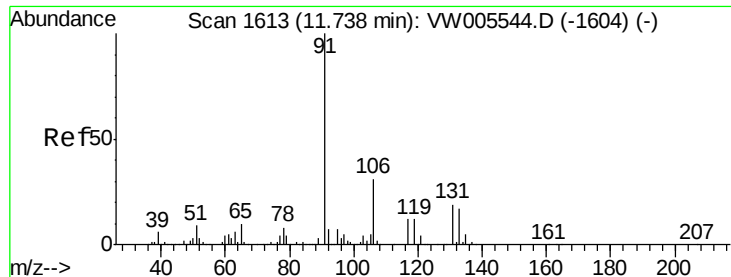
Tgt Ion:117 Resp: 232
Ion Ratio Lower Upper
117 100
82 85.7 46.9 70.3#
119 43.7 25.7 38.5#



#65
Chlorobenzene
Concen: 67.207 ug/l
RT: 11.68 min Scan# 1603
Delta R.T. 0.01 min
Lab File: VW005710.D
Acq: 27 Sep 2018 19:35

Tgt Ion:112 Resp: 331
Ion Ratio Lower Upper
112 100
114 0.0 22.9 34.3#

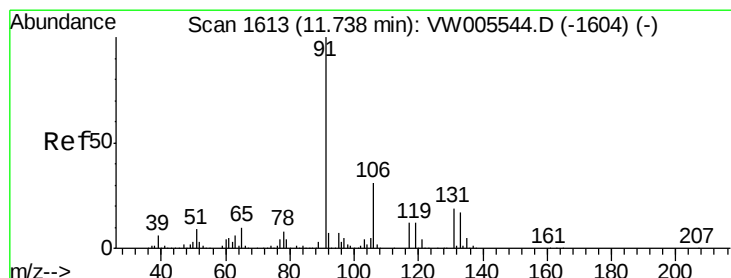
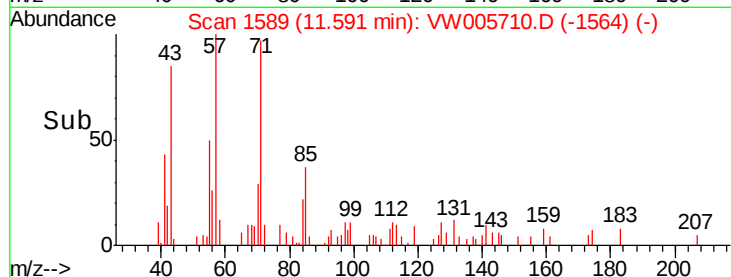
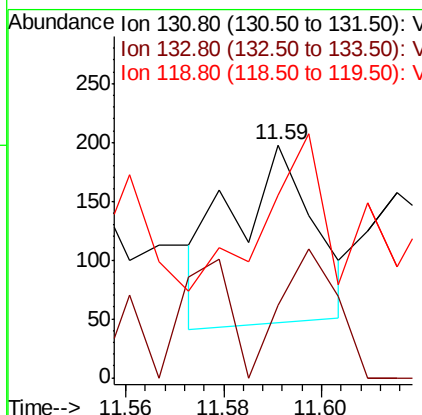
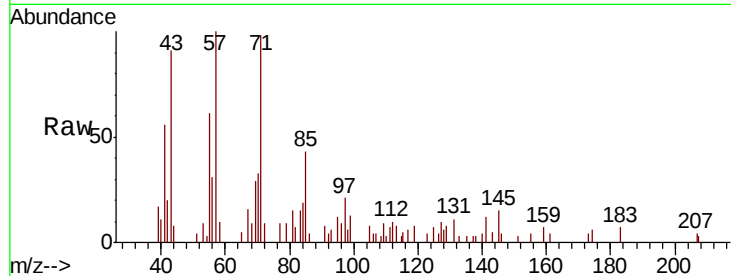




#66
 1,1,1,2-Tetrachloroethane
 Concen: 99.290 ug/l
 RT: 11.59 min Scan# 1589
 Delta R.T. -0.15 min
 Lab File: VW005710.D
 Acq: 27 Sep 2018 19:35

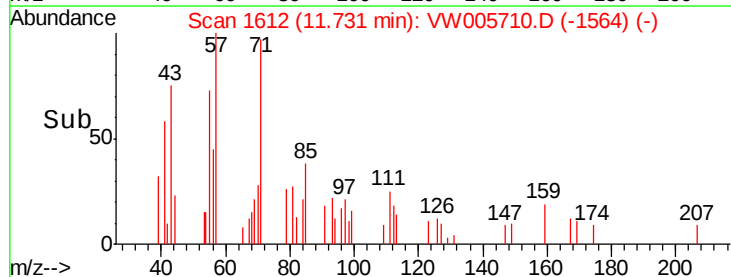
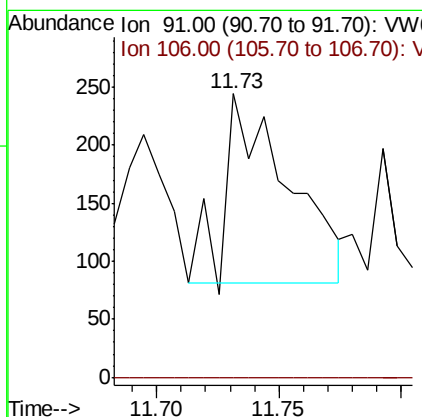
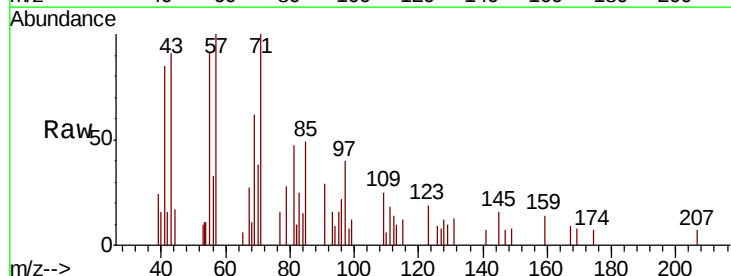
Instrument :
 MSVOA_W
 ClientSampleId :
 TOP-SOIL

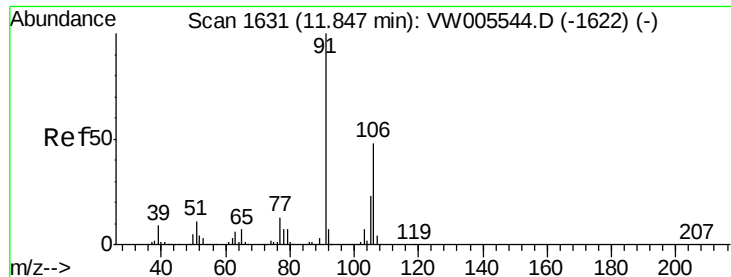
Tgt Ion: 131 Resp: 176
 Ion Ratio Lower Upper
 131 100
 133 50.0 47.2 141.6
 119 77.8 31.1 93.2



#67
 Ethyl Benzene
 Concen: 34.202 ug/l
 RT: 11.73 min Scan# 1612
 Delta R.T. -0.01 min
 Lab File: VW005710.D
 Acq: 27 Sep 2018 19:35

Tgt Ion: 91 Resp: 299
 Ion Ratio Lower Upper
 91 100
 106 0.0 24.4 36.6#

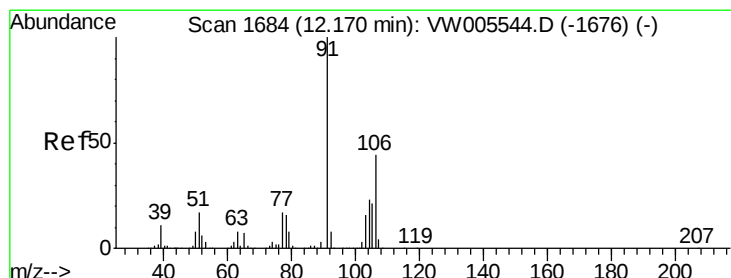
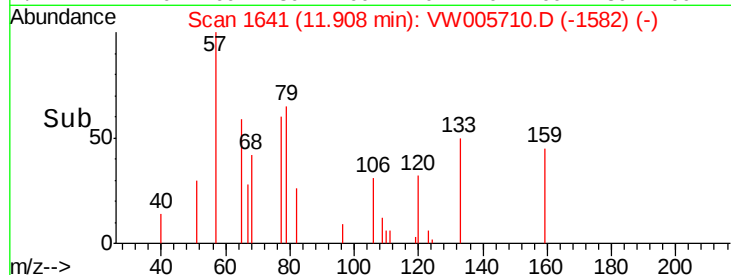
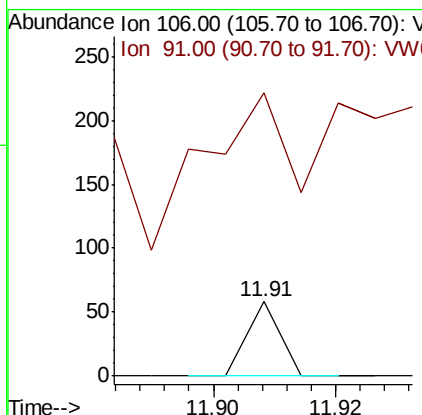
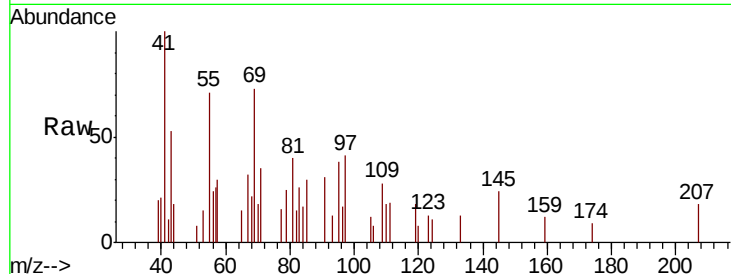




#68
m/p-Xylenes
Concen: 6.358 ug/l
RT: 11.91 min Scan# 1641
Delta R.T. 0.06 min
Lab File: VW005710.D
Acq: 27 Sep 2018 19:35

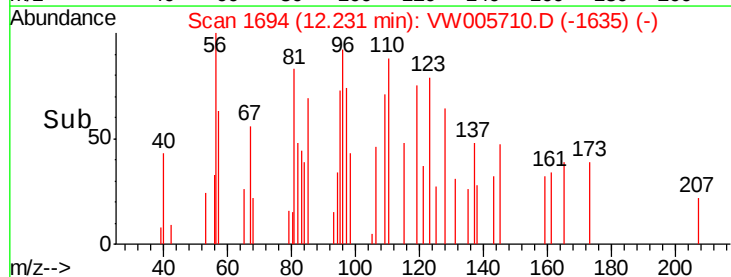
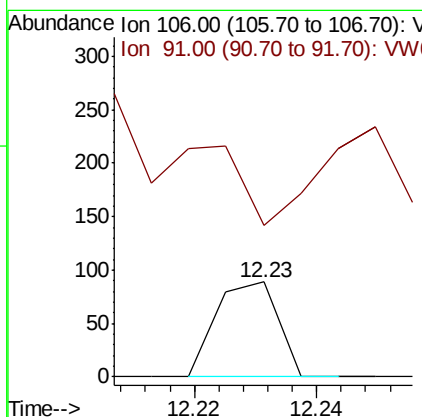
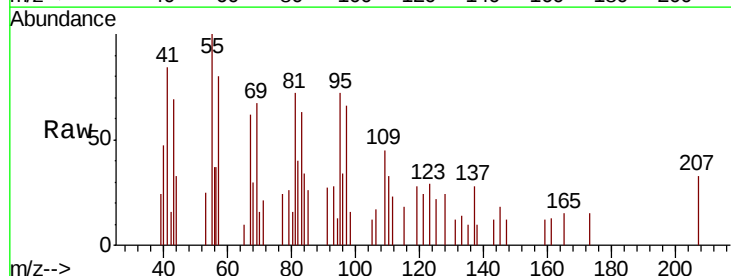
Instrument :
MSVOA_W
ClientSampled :
TOP-SOIL

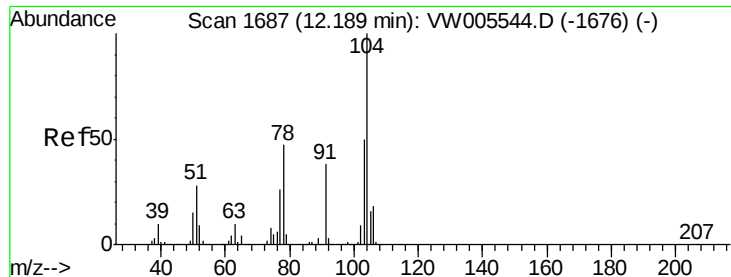
Tgt Ion:106 Resp: 21
Ion Ratio Lower Upper
106 100
91 566.7 167.8 251.8#



#69
o-Xylene
Concen: 19.721 ug/l
RT: 12.23 min Scan# 1694
Delta R.T. 0.06 min
Lab File: VW005710.D
Acq: 27 Sep 2018 19:35

Tgt Ion:106 Resp: 61
Ion Ratio Lower Upper
106 100
91 129.5 111.0 333.0





#70

Styrene

Concen: 10.182 ug/l

RT: 12.12 min Scan# 1676

Delta R.T. -0.07 min

Lab File: VW005710.D

Acq: 27 Sep 2018 19:35

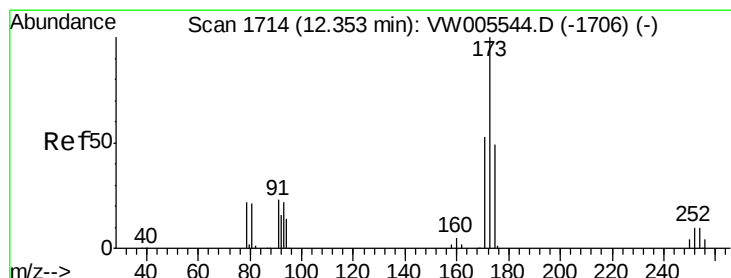
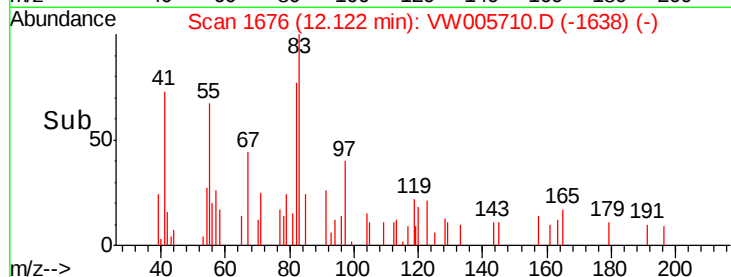
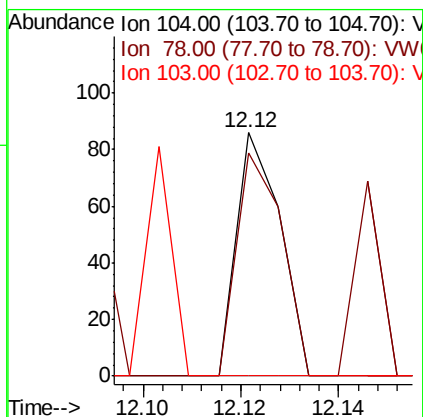
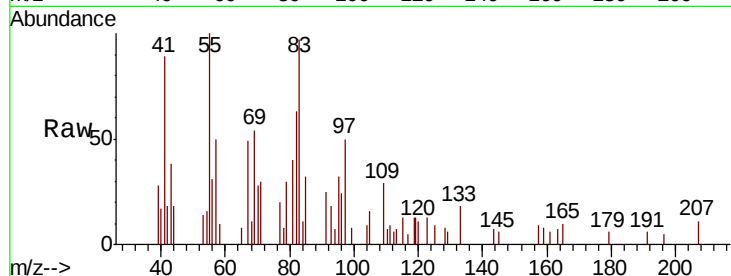
Instrument :

MSVOA_W

ClientSampled :

TOP-SOIL

Tgt Ion:	104	Resp:	53
Ion Ratio	Lower	Upper	
104	100		
78	96.2	42.2	63.4#
103	56.6	44.6	66.8



#71

Bromoform

Concen: 72.271 ug/l

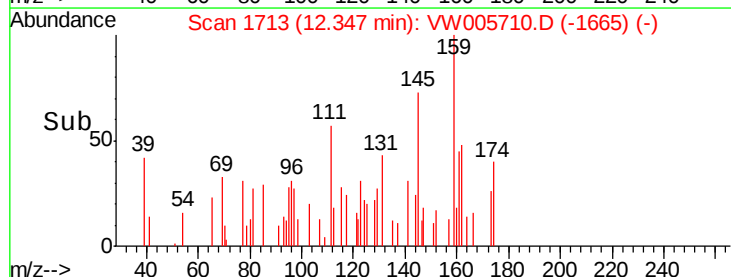
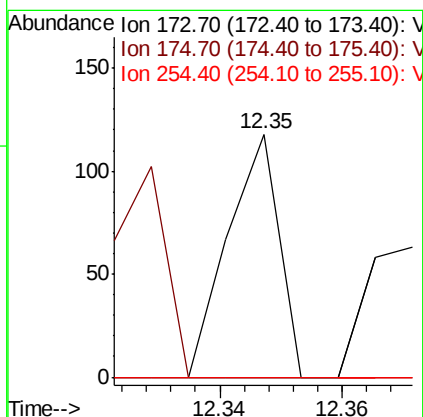
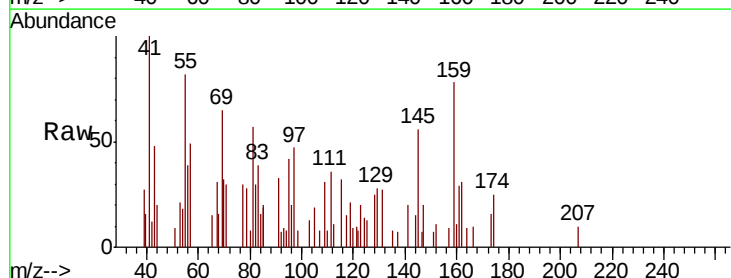
RT: 12.35 min Scan# 1713

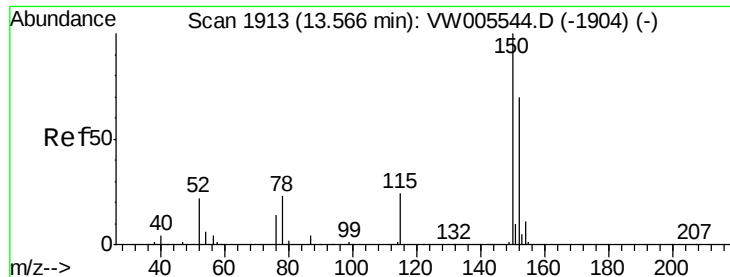
Delta R.T. -0.01 min

Lab File: VW005710.D

Acq: 27 Sep 2018 19:35

Tgt Ion:	173	Resp:	68
Ion Ratio	Lower	Upper	
173	100		
175	0.0	24.3	72.9#
254	0.0	0.1	0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.49 min Scan# 1901

Delta R.T. -0.07 min

Lab File: VW005710.D

Acq: 27 Sep 2018 19:35

Instrument :

MSVOA_W

ClientSampled :

TOP-SOIL

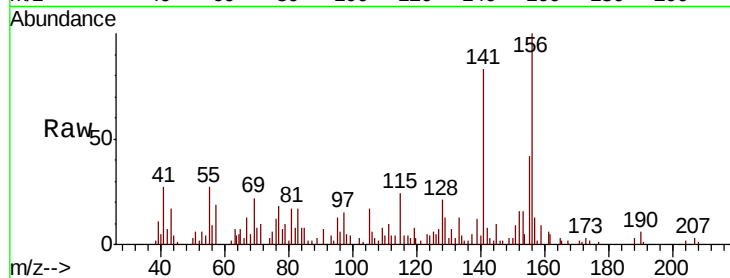
Tgt Ion:152 Resp: 2156

Ion Ratio Lower Upper

152 100

115 48.9 30.0 90.0

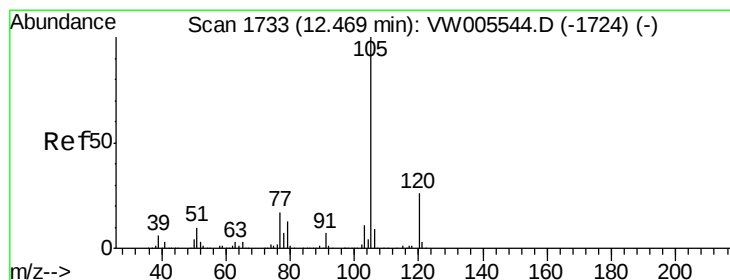
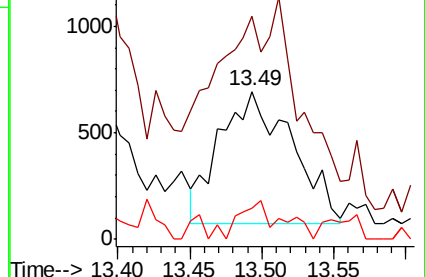
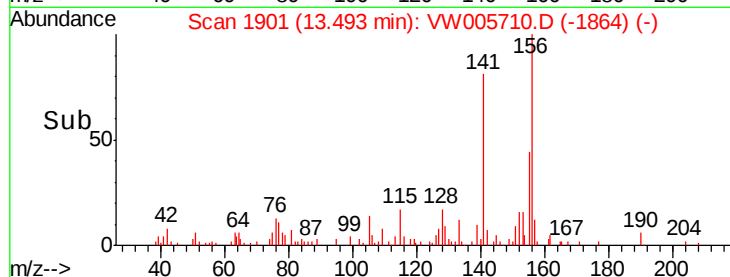
150 13.6 0.0 348.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 1.926 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW005710.D

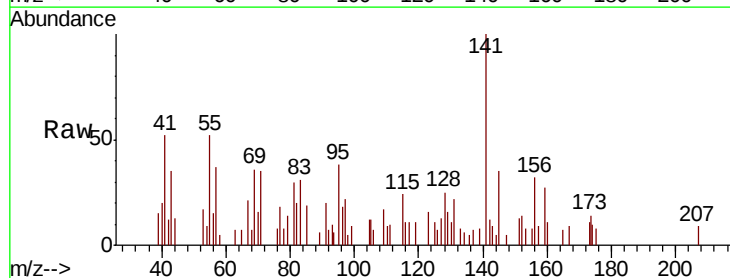
Acq: 27 Sep 2018 19:35

Tgt Ion:105 Resp: 288

Ion Ratio Lower Upper

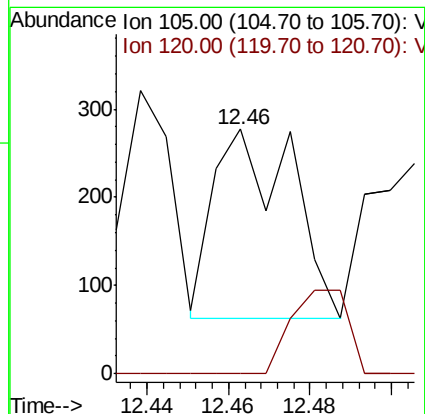
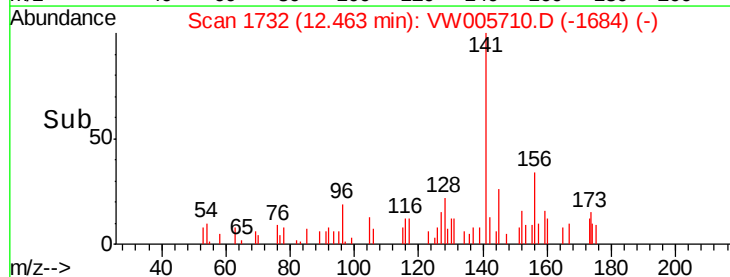
105 100

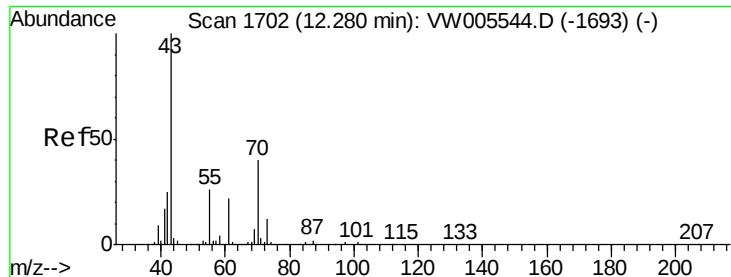
120 31.6 12.9 38.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-ethyl acetate

Concen: 6.675 ug/l

RT: 12.29 min Scan# 1703

Delta R.T. 0.01 min

Lab File: VW005710.D

Acq: 27 Sep 2018 19:35

Instrument :

MSVOA_W

ClientSampleId :

TOP-SOIL

Tgt Ion: 43 Resp: 226

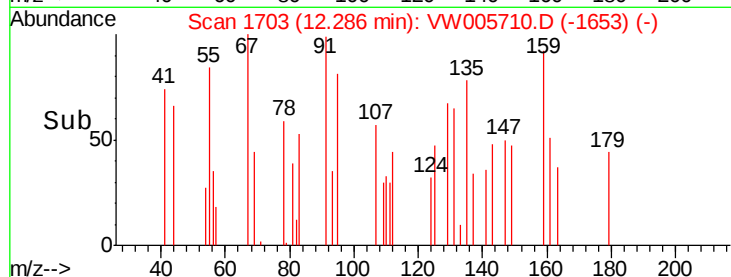
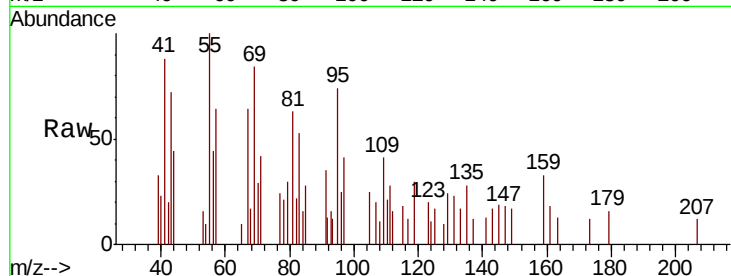
Ion Ratio Lower Upper

43 100

70 55.8 31.4 47.0#

55 59.3 20.9 31.3#

61 0.0 17.8 26.6#

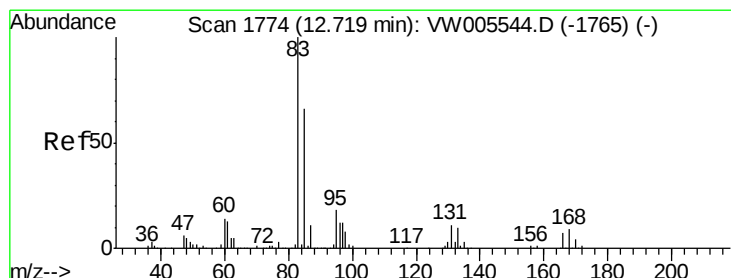
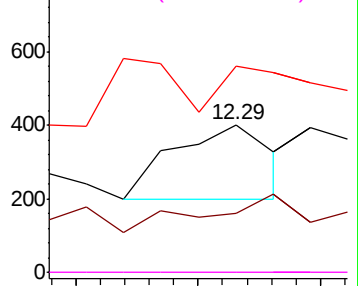


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#75

1,1,2,2-Tetrachloroethane

Concen: 8.657 ug/l

RT: 12.70 min Scan# 1771

Delta R.T. -0.02 min

Lab File: VW005710.D

Acq: 27 Sep 2018 19:35

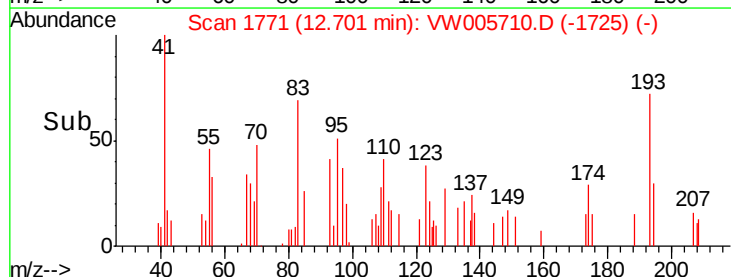
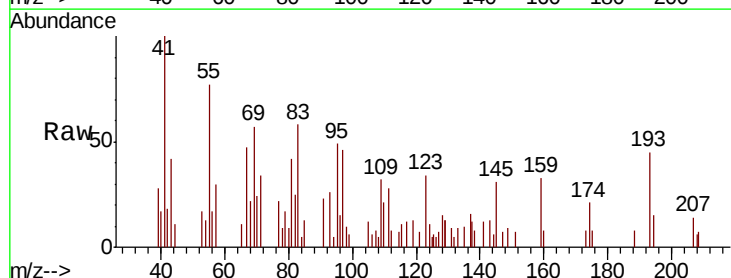
Tgt Ion: 83 Resp: 215

Ion Ratio Lower Upper

83 100

131 20.5 5.5 16.7#

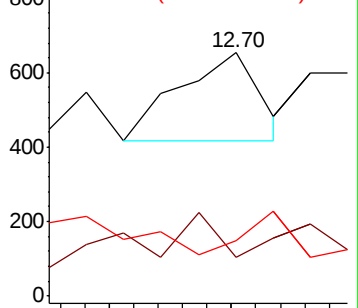
85 0.0 32.4 97.0#

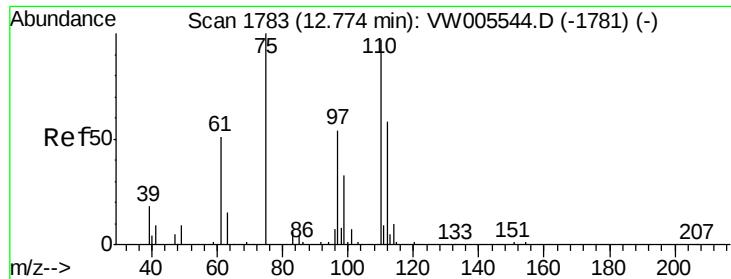


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 1.251 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.03 min

Lab File: VW005710.D

Acq: 27 Sep 2018 19:35

Instrument :

MSVOA_W

ClientSampled :

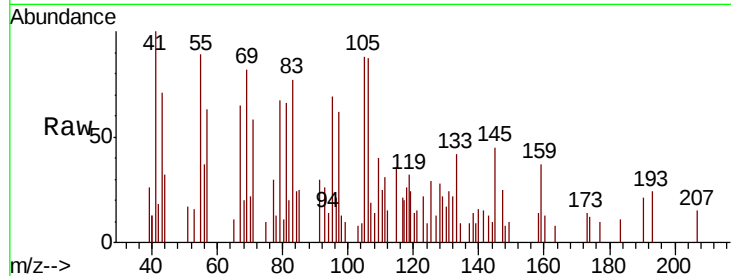
TOP-SOIL

Tgt Ion: 75 Resp: 23

Ion Ratio Lower Upper

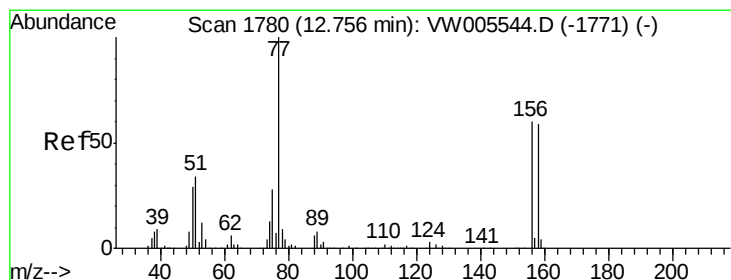
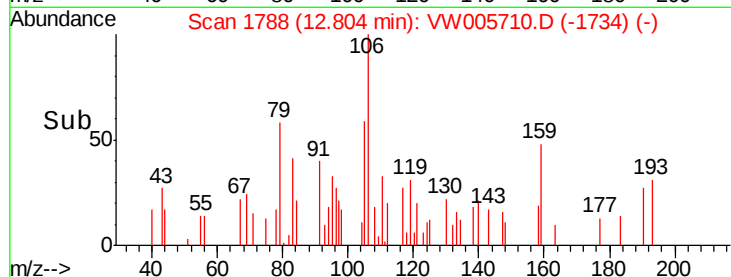
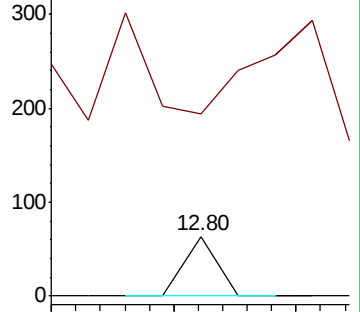
75 100

77 517.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#77

Bromobenzene

Concen: 847.846 ug/l

RT: 12.94 min Scan# 1810

Delta R.T. 0.18 min

Lab File: VW005710.D

Acq: 27 Sep 2018 19:35

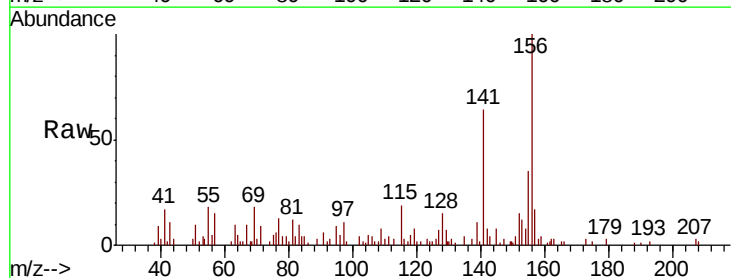
Tgt Ion: 156 Resp: 29711

Ion Ratio Lower Upper

156 100

77 0.0 94.7 284.1#

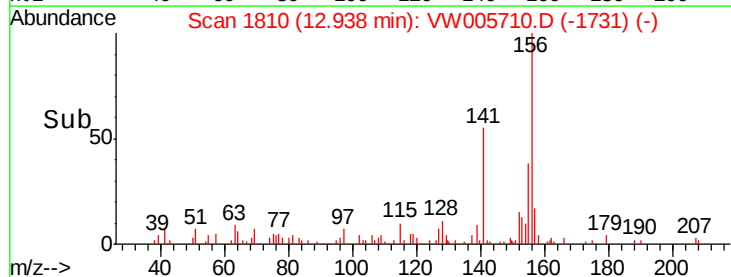
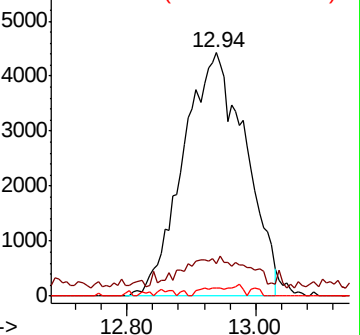
158 1.3 48.0 144.2#

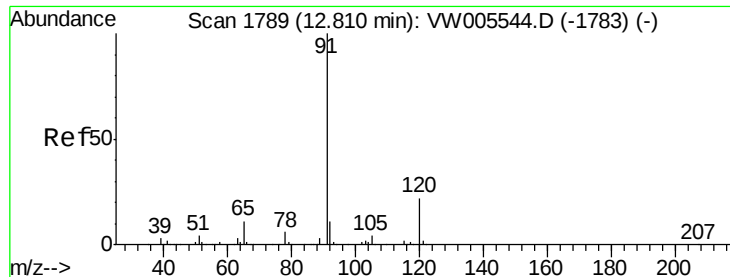


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V





#78

n-propylbenzene

Concen: 2.486 ug/l

RT: 12.82 min Scan# 1791

Delta R.T. 0.01 min

Lab File: VW005710.D

Acq: 27 Sep 2018 19:35

Instrument :

MSVOA_W

ClientSampled :

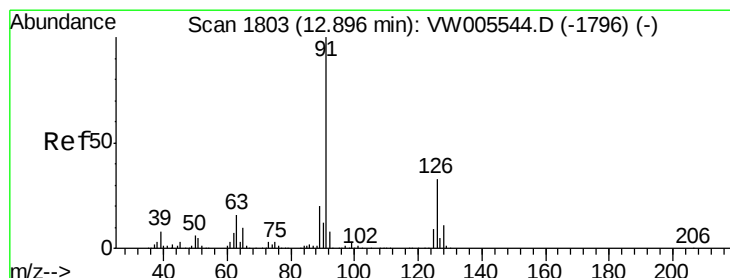
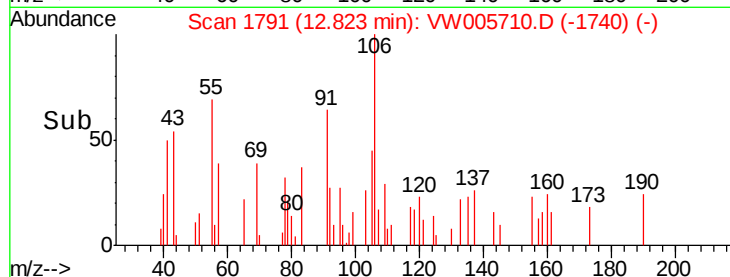
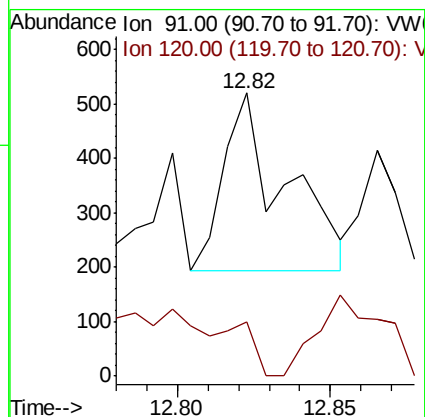
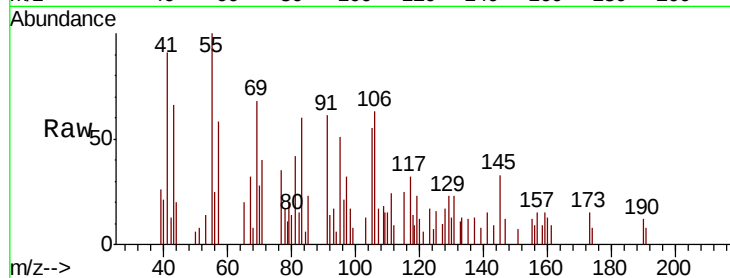
TOP-SOIL

Tgt Ion: 91 Resp: 450

Ion Ratio Lower Upper

91 100

120 0.0 11.2 33.5#



#79

2-Chlorotoluene

Concen: 2.359 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.05 min

Lab File: VW005710.D

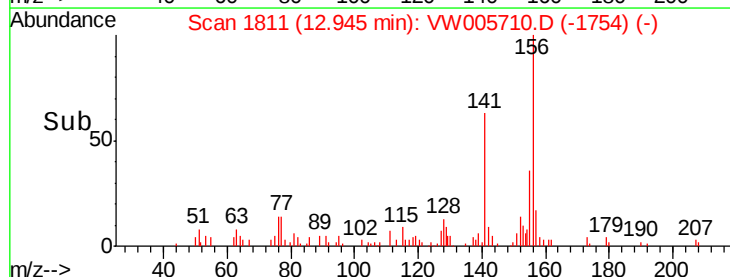
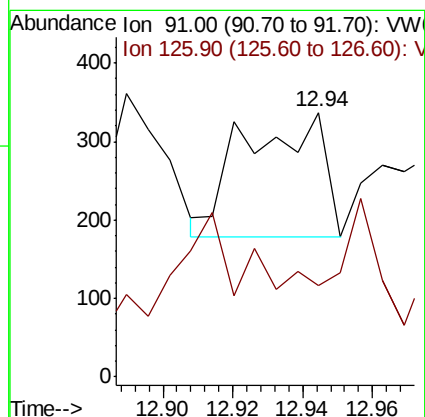
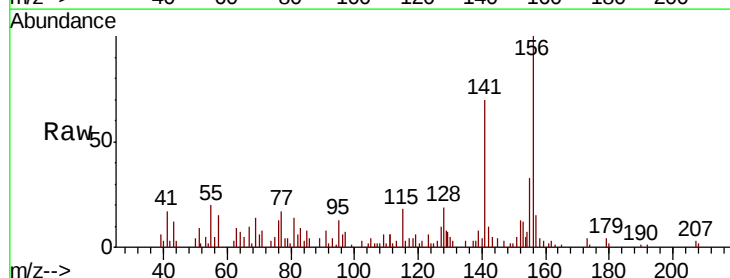
Acq: 27 Sep 2018 19:35

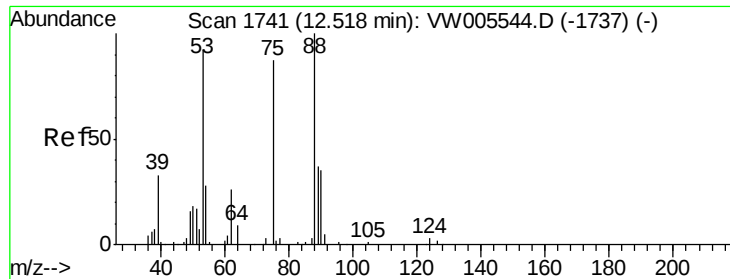
Tgt Ion: 91 Resp: 247

Ion Ratio Lower Upper

91 100

126 42.1 16.4 49.1





#81

trans-1,4-Dichloro-2-butene

Concen: 5.147 ug/l

RT: 12.51 min Scan# 1739

Delta R.T. -0.01 min

Lab File: VW005710.D

Acq: 27 Sep 2018 19:35

Instrument :

MSVOA_W

ClientSampled :

TOP-SOIL

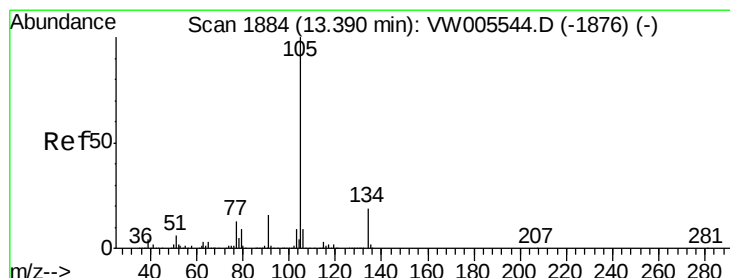
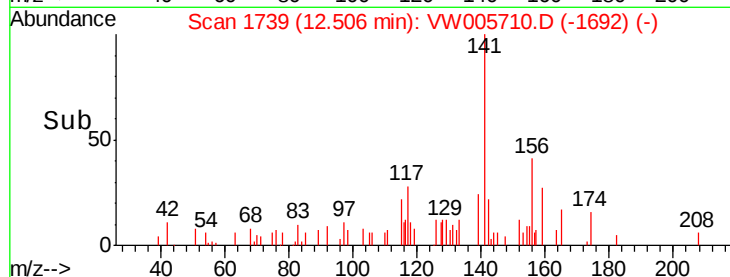
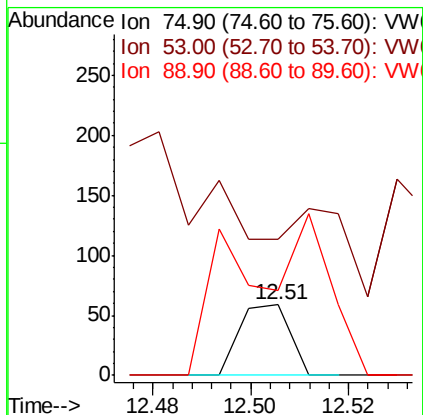
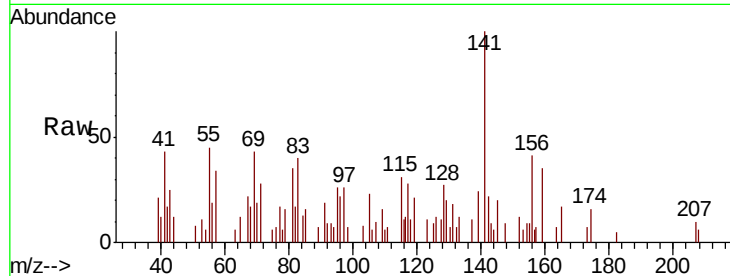
Tgt Ion: 75 Resp: 42

Ion Ratio Lower Upper

75 100

53 0.0 85.8 128.6#

89 233.3 37.3 55.9#



#85

sec-Butylbenzene

Concen: 6.136 ug/l

RT: 13.49 min Scan# 1901

Delta R.T. 0.10 min

Lab File: VW005710.D

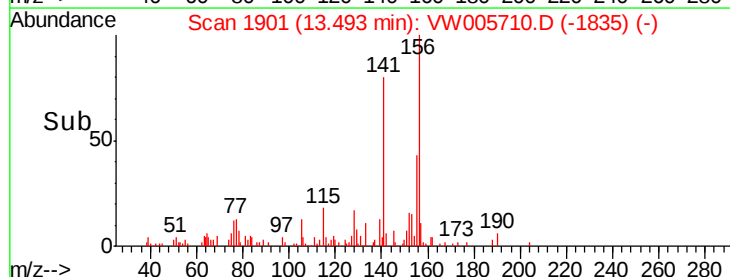
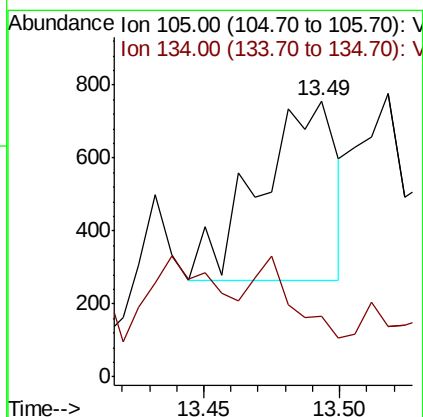
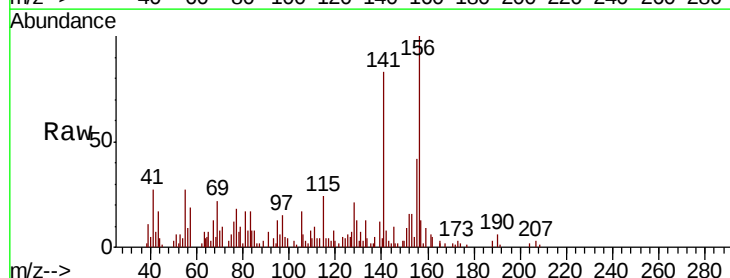
Acq: 27 Sep 2018 19:35

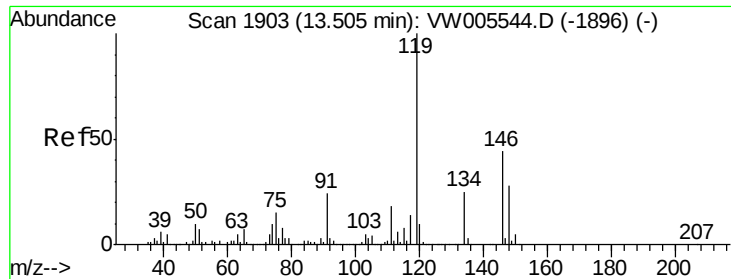
Tgt Ion: 105 Resp: 972

Ion Ratio Lower Upper

105 100

134 22.0 9.8 29.5

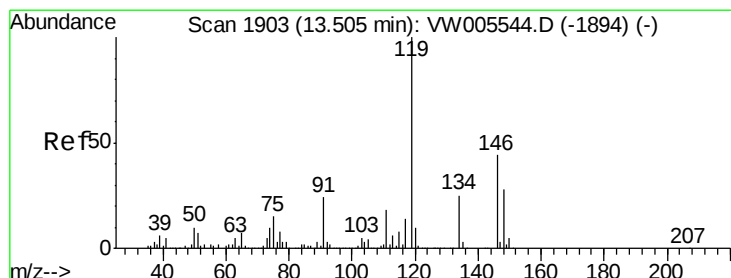
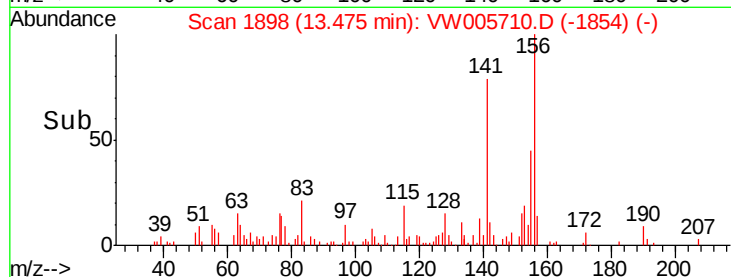
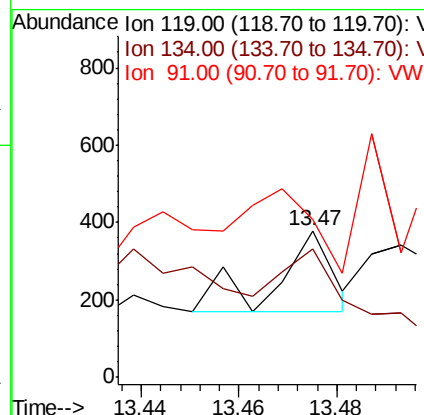
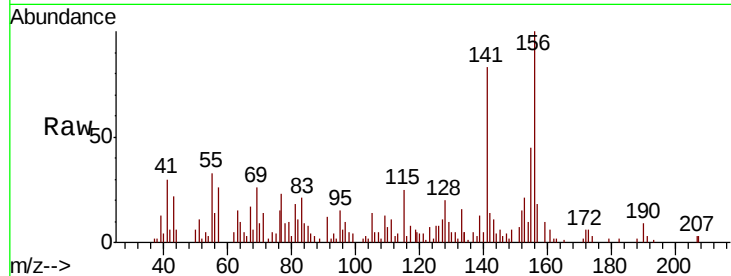




#86
p-Isopropyltoluene
Concen: 1.162 ug/l
RT: 13.47 min Scan# 1898
Delta R.T. -0.03 min
Lab File: VW005710.D
Acq: 27 Sep 2018 19:35

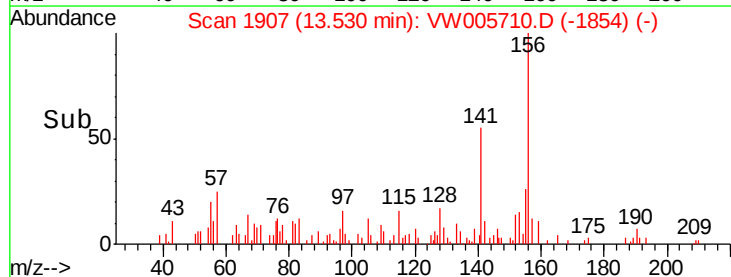
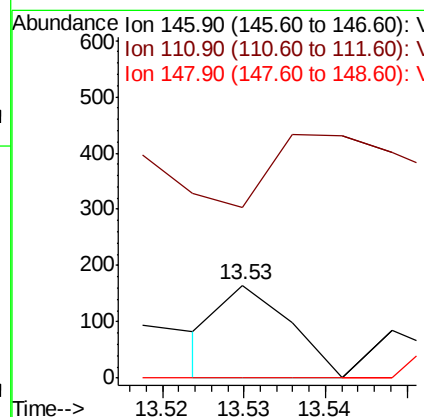
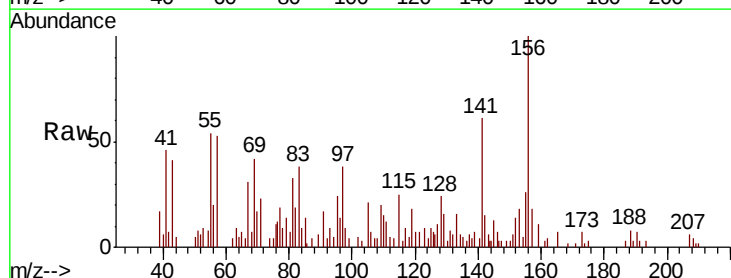
Instrument :
MSVOA_W
ClientSampled :
TOP-SOIL

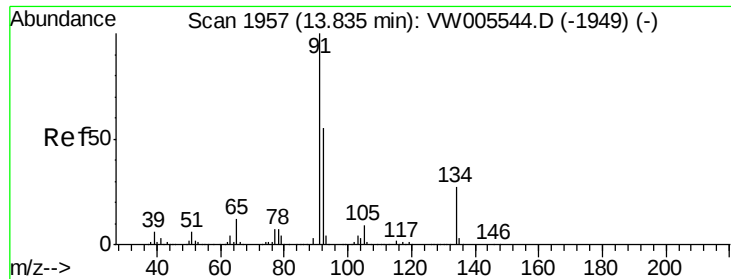
Tgt Ion:119 Resp: 165
Ion Ratio Lower Upper
119 100
134 222.4 12.7 38.1#
91 118.8 12.2 36.4#



#87
1,3-Dichlorobenzene
Concen: 1.354 ug/l
RT: 13.53 min Scan# 1907
Delta R.T. 0.02 min
Lab File: VW005710.D
Acq: 27 Sep 2018 19:35

Tgt Ion:146 Resp: 97
Ion Ratio Lower Upper
146 100
111 288.7 20.3 60.9#
148 0.0 31.8 95.4#





#89

n-Butylbenzene

Concen: 3.203 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.01 min

Lab File: VW005710.D

Acq: 27 Sep 2018 19:35

Instrument :

MSVOA_W

ClientSampled :

TOP-SOIL

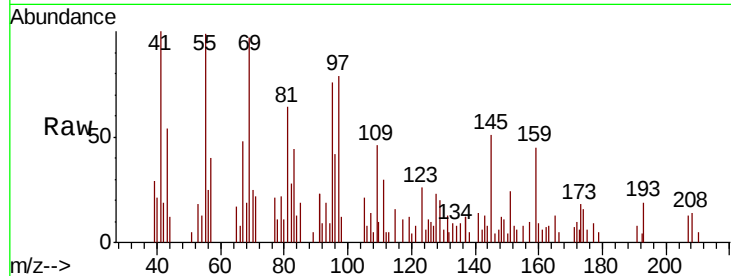
Tgt Ion: 91 Resp: 429

Ion Ratio Lower Upper

91 100

92 0.0 26.5 79.5#

134 29.8 12.9 38.7



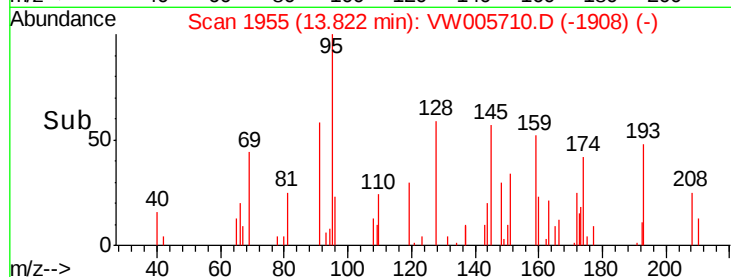
Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

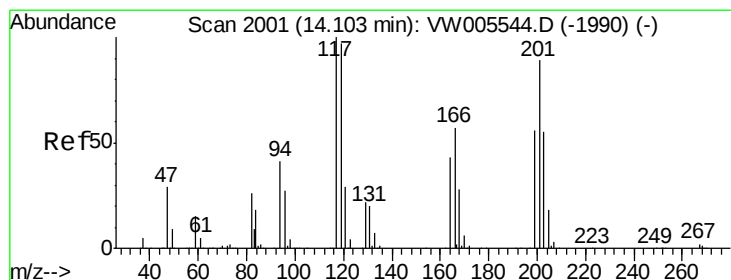
Ion 134.00 (133.70 to 134.70): V

13.82

13.85



Time-->



#90

Hexachloroethane

Concen: 1.593 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. -0.01 min

Lab File: VW005710.D

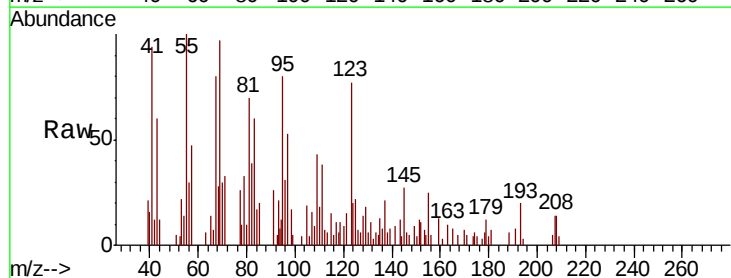
Acq: 27 Sep 2018 19:35

Tgt Ion: 117 Resp: 41

Ion Ratio Lower Upper

117 100

201 0.0 42.8 128.3#

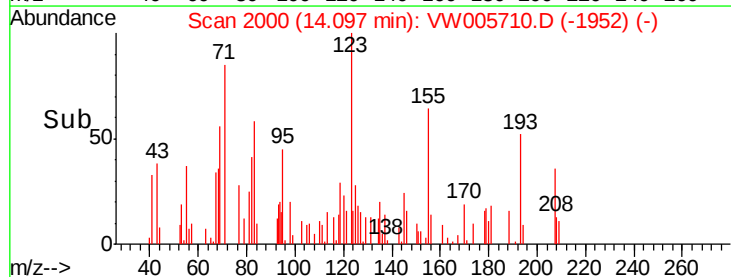


Abundance Ion 116.80 (116.50 to 117.50): V

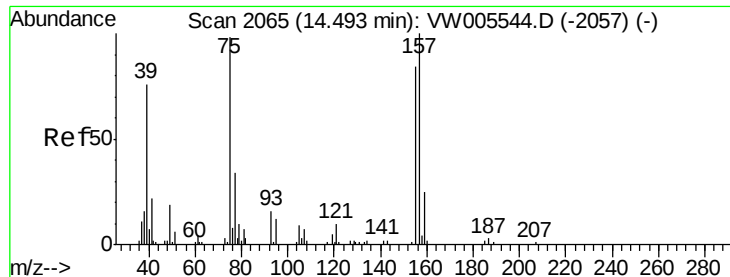
Ion 200.70 (200.40 to 201.40): V

14.10

14.10



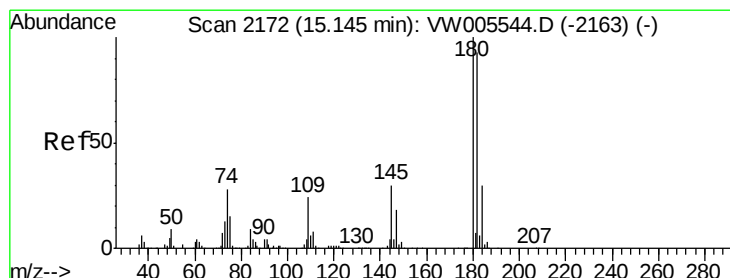
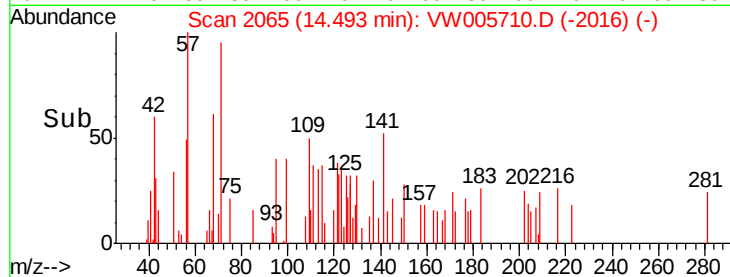
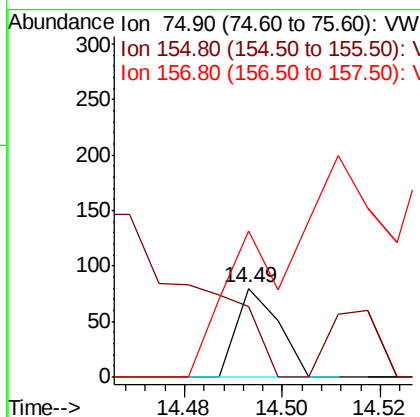
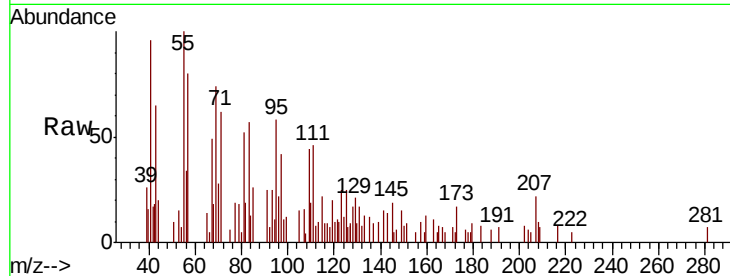
Time-->



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 10.145 ug/l
 RT: 14.49 min Scan# 2065
 Delta R.T. -0.00 min
 Lab File: VW005710.D
 Acq: 27 Sep 2018 19:35

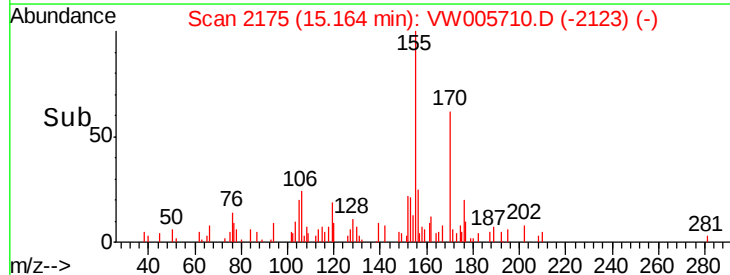
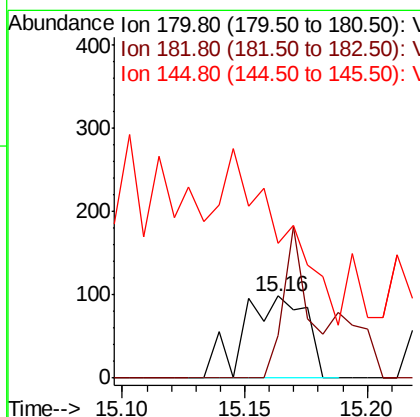
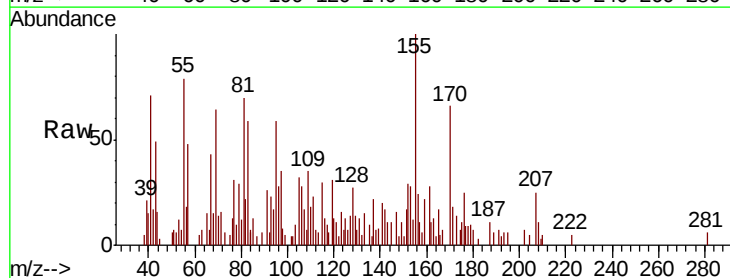
Instrument :
 MSVOA_W
 ClientSampled :
 TOP-SOIL

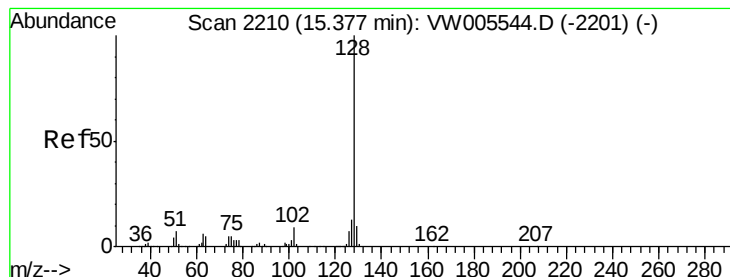
Tgt Ion: 75 Resp: 48
 Ion Ratio Lower Upper
 75 100
 155 0.0 39.1 117.5#
 157 681.3 50.8 152.4#



#93
 1,2,4-Trichlorobenzene
 Concen: 3.923 ug/l
 RT: 15.16 min Scan# 2175
 Delta R.T. 0.02 min
 Lab File: VW005710.D
 Acq: 27 Sep 2018 19:35

Tgt Ion: 180 Resp: 177
 Ion Ratio Lower Upper
 180 100
 182 73.4 47.7 143.1
 145 0.0 15.0 45.1#





#95

Naphthalene

Concen: 2.820 ug/l

RT: 15.39 min Scan# 2212

Delta R.T. 0.01 min

Lab File: VW005710.D

Acq: 27 Sep 2018 19:35

Instrument :

MSVOA_W

ClientSampleId :

TOP-SOIL

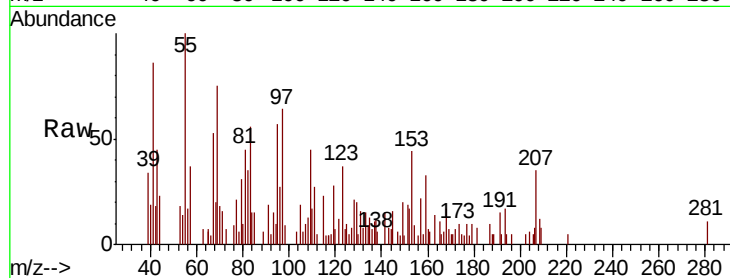
Tgt Ion:128 Resp: 214

Ion Ratio Lower Upper

128 100

127 82.7 10.9 16.3#

129 48.1 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

