

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW101718\
 Data File : VW006141.D
 Acq On : 17 Oct 2018 21:37
 Operator : VA/AP
 Sample : J5524-05RE
 Misc : 5.41G/5ML/MSVOA_W/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BS-SOIL-2

Quant Time: Oct 18 10:46:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W101518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 16 05:36:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	288342	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	429810	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	377991	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	198082	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	123119	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
35) Dibromofluoromethane	7.88	113	120124	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	
50) Toluene-d8	10.33	98	412950	42.74	ug/l	0.00
Spiked Amount			Recovery	=	85.48%	
62) 4-Bromofluorobenzene	12.62	95	162898	44.89	ug/l	0.00
Spiked Amount			Recovery	=	89.78%	

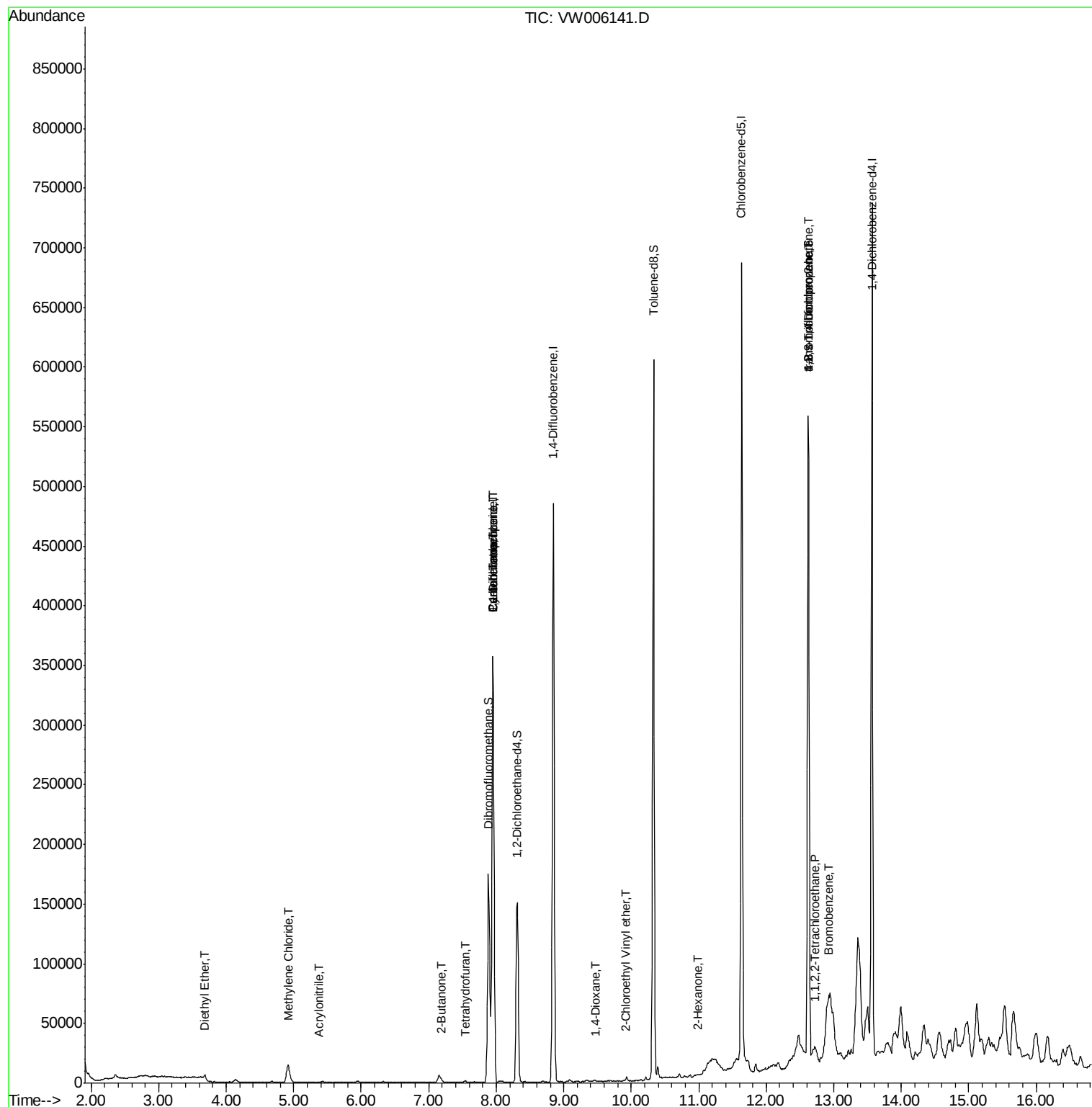
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.69	74	3004	2.31	ug/l	73
15) Acrylonitrile	5.38	53	546	1.17	ug/l	# 92
16) Acetone	4.14	43	5266	Below	Cal	90
20) Methylene Chloride	4.92	84	13063	3.66	ug/l	98
25) 2-Butanone	7.18	43	2220	3.44	ug/l	92
29) Tetrahydrofuran	7.54	42	1073	2.70	ug/l	# 85
31) Cyclohexane	7.95	56	5676	1.30	ug/l	# 32
36) 1,1-Dichloropropene	7.95	75	18434	4.65	ug/l	# 49
38) Carbon Tetrachloride	7.95	117	25975	5.98	ug/l	# 16
49) 1,4-Dioxane	9.48	88	50	2.19	ug/l	# 18
58) 2-Chloroethyl Vinyl ether	9.93	63	1656	1.70	ug/l	# 97
59) 2-Hexanone	10.98	43	1141	1.06	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.71	83	2703	1.27	ug/l	# 43
76) 1,2,3-Trichloropropane	12.62	75	83608	55.26	ug/l	# 100
77) Bromobenzene	12.91	156	91850	26.80	ug/l	# 1
81) trans-1,4-Dichloro-2-buten	12.62	75	83608	132.10	ug/l	# 10

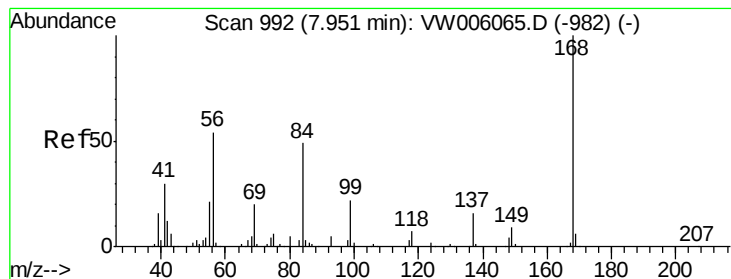
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006141.D

Acq: 17 Oct 2018 21:37

Instrument :

MSVOA_W

ClientSampleId :

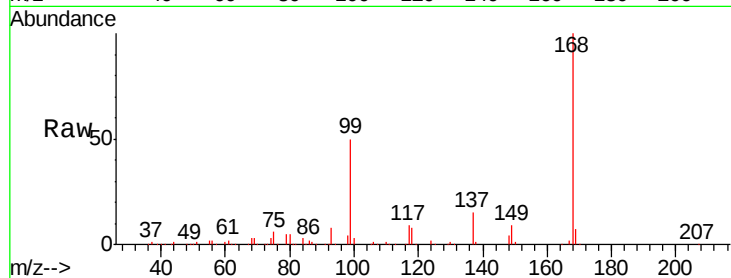
BS-SOIL-2

Tgt Ion:168 Resp: 288342

Ion Ratio Lower Upper

168 100

99 49.8 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

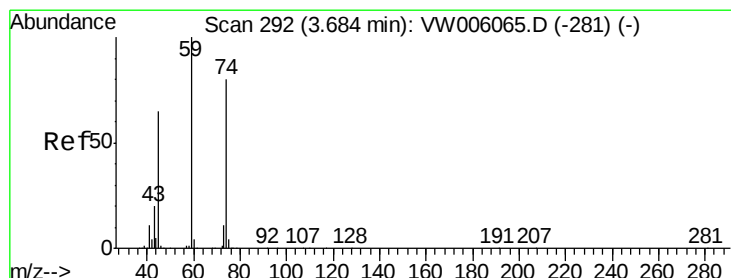
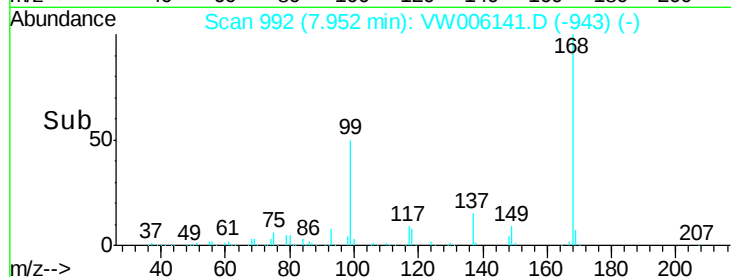
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#8

Diethyl Ether

Concen: 2.31 ug/l

RT: 3.69 min Scan# 293

Delta R.T. 0.01 min

Lab File: VW006141.D

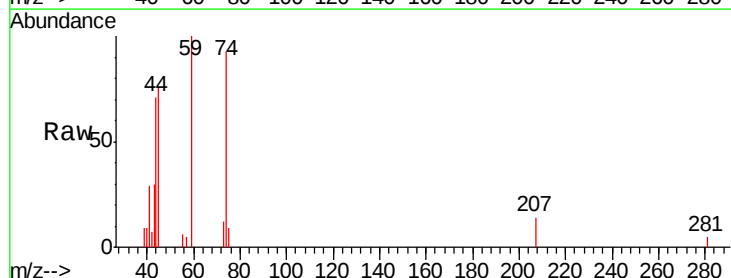
Acq: 17 Oct 2018 21:37

Tgt Ion: 74 Resp: 3004

Ion Ratio Lower Upper

74 100

45 109.9 42.8 128.3



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.69

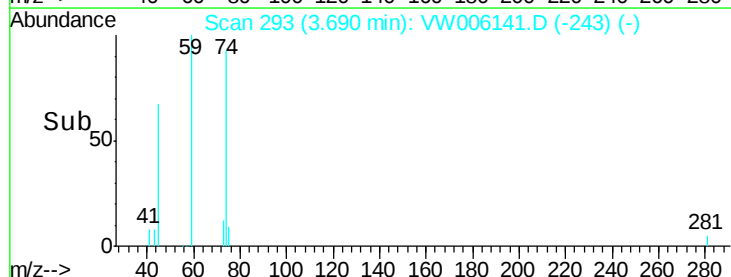
1500

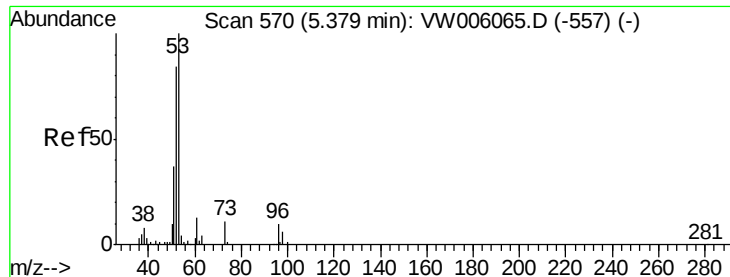
1000

500

0

Time--> 3.60 3.65 3.70 3.75





#15

Acrylonitrile

Concen: 1.17 ug/l

RT: 5.38 min Scan# 570

Delta R.T. 0.00 min

Lab File: VW006141.D

Acq: 17 Oct 2018 21:37

Instrument :

MSVOA_W

ClientSampleId :

BS-SOIL-2

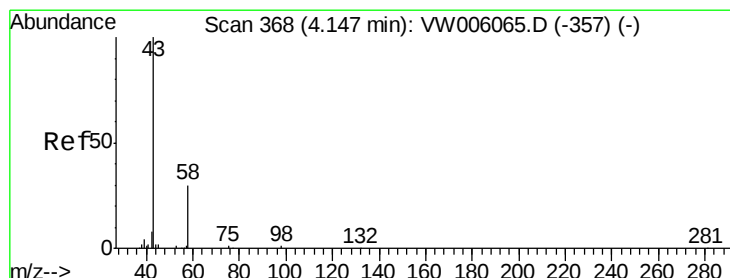
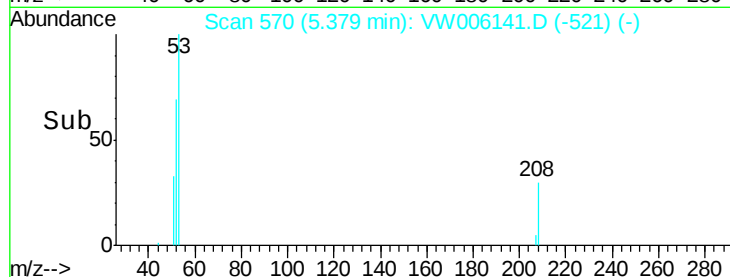
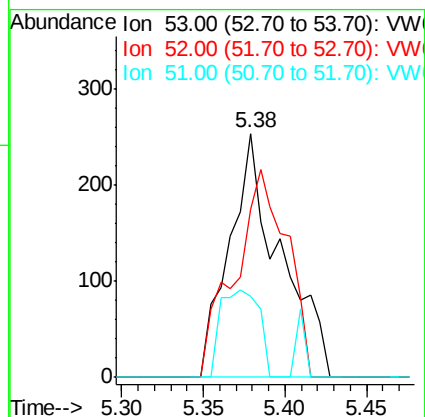
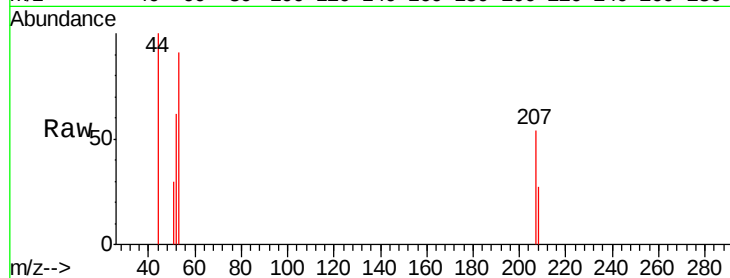
Tgt Ion: 53 Resp: 546

Ion Ratio Lower Upper

53 100

52 87.7 66.9 100.3

51 27.5 30.1 45.1#



#16

Acetone

Concen: Below Cal

RT: 4.14 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW006141.D

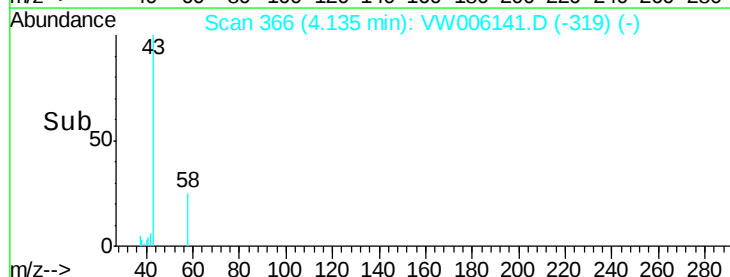
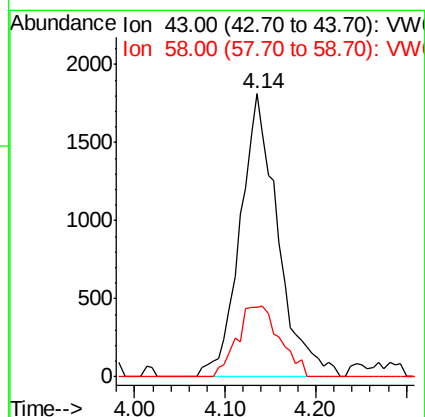
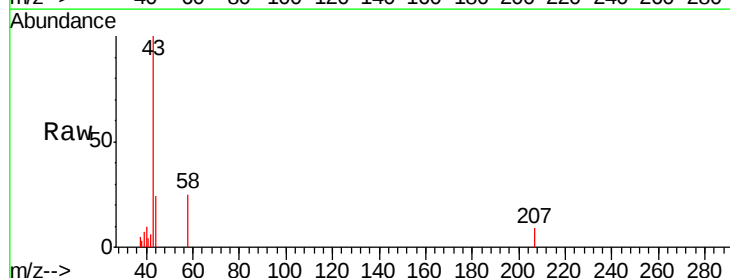
Acq: 17 Oct 2018 21:37

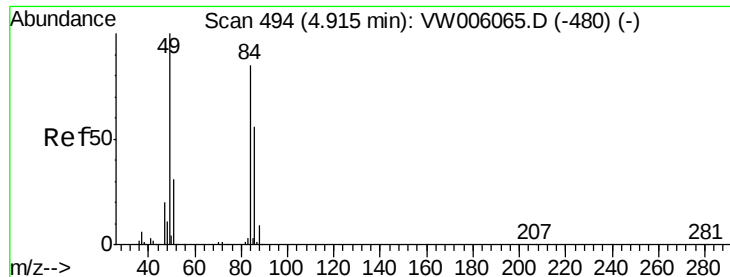
Tgt Ion: 43 Resp: 5266

Ion Ratio Lower Upper

43 100

58 24.5 24.0 36.0





#20

Methylene Chloride

Concen: 3.66 ug/l

RT: 4.92 min Scan# 494

Delta R.T. 0.00 min

Lab File: VW006141.D

Acq: 17 Oct 2018 21:37

Instrument :

MSVOA_W

ClientSampled :

BS-SOIL-2

Tgt Ion: 84 Resp: 13063

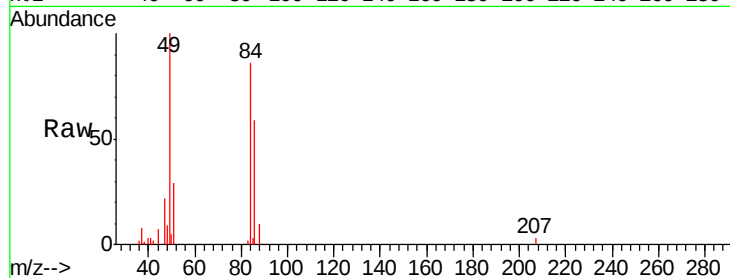
Ion Ratio Lower Upper

84 100

49 116.7 93.6 140.4

51 34.1 29.0 43.4

86 68.8 52.6 79.0

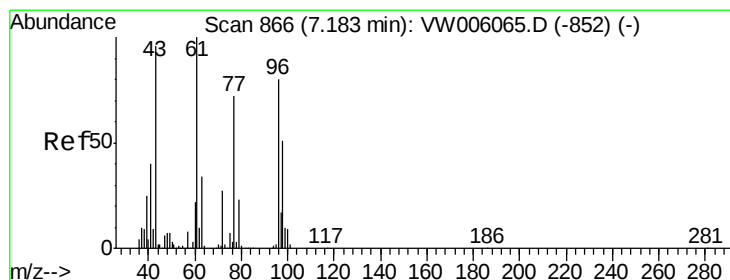
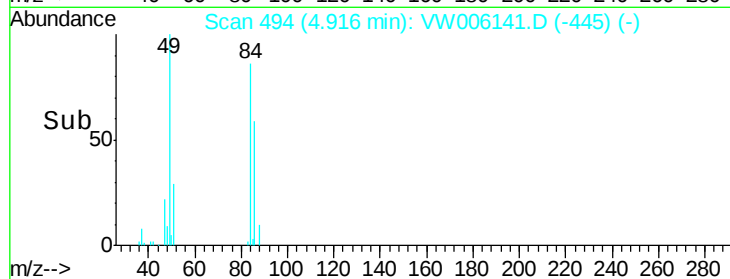
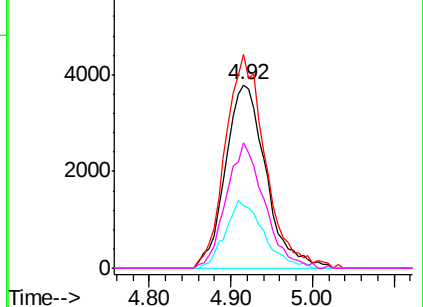


Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW



#25

2-Butanone

Concen: 3.44 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.00 min

Lab File: VW006141.D

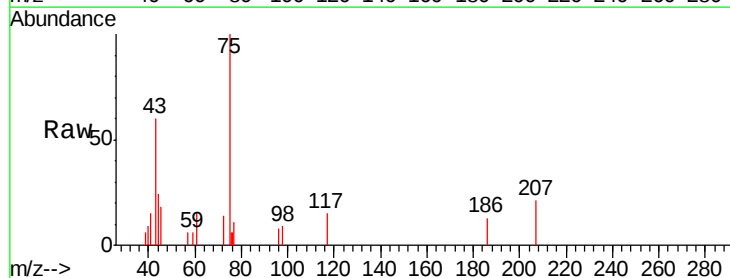
Acq: 17 Oct 2018 21:37

Tgt Ion: 43 Resp: 2220

Ion Ratio Lower Upper

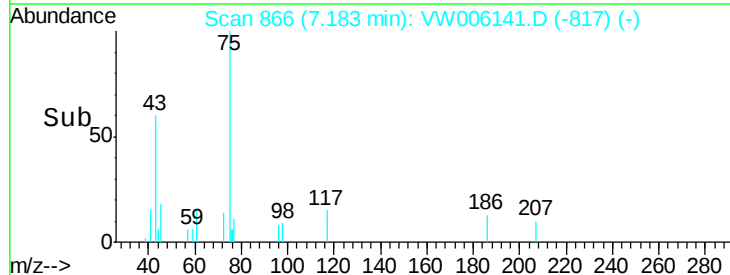
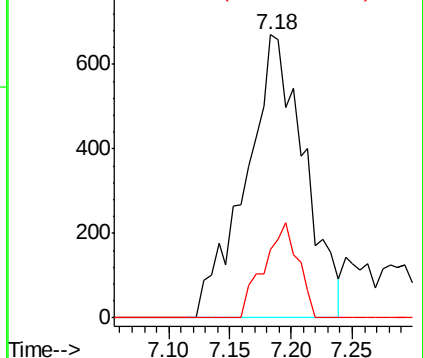
43 100

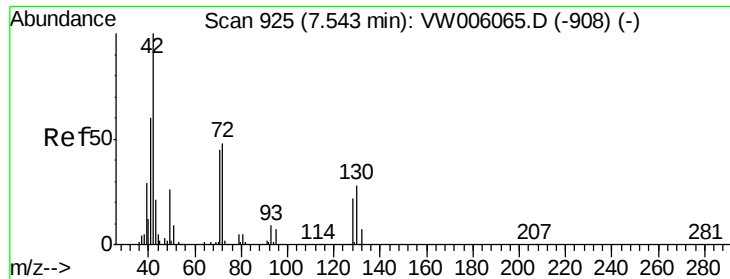
72 24.0 22.8 34.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW





#29

Tetrahydrofuran

Concen: 2.70 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.00 min

Lab File: VW006141.D

Acq: 17 Oct 2018 21:37

Instrument :

MSVOA_W

ClientSampled :

BS-SOIL-2

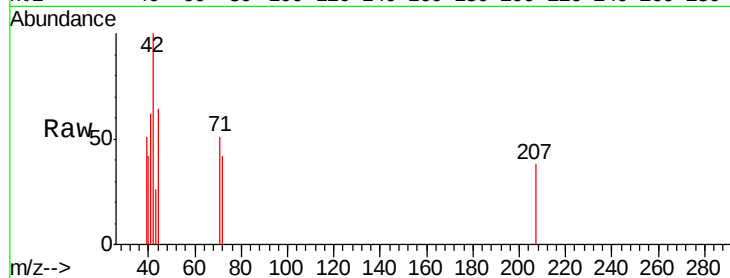
Tgt Ion: 42 Resp: 1073

Ion Ratio Lower Upper

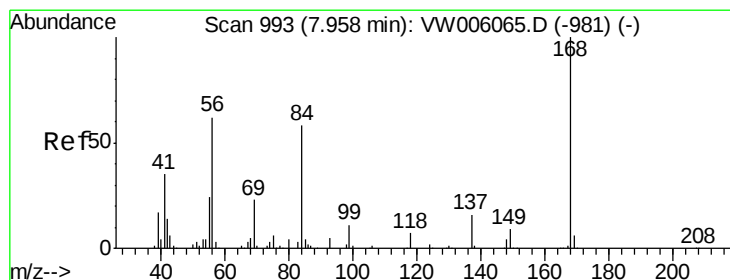
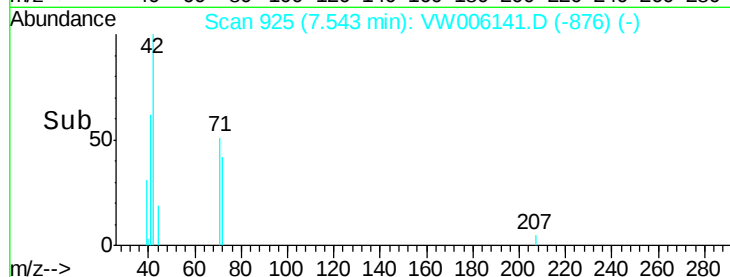
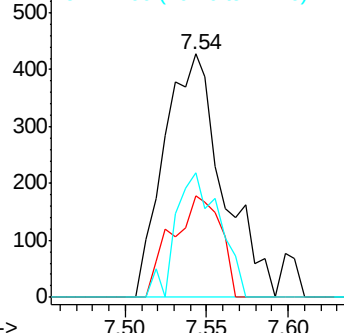
42 100

72 34.5 38.0 57.0#

71 37.9 35.3 52.9



Abundance Ion 42.00 (41.70 to 42.70): VW
Ion 72.00 (71.70 to 72.70): VW
Ion 71.00 (70.70 to 71.70): VW



#31

Cyclohexane

Concen: 1.30 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW006141.D

Acq: 17 Oct 2018 21:37

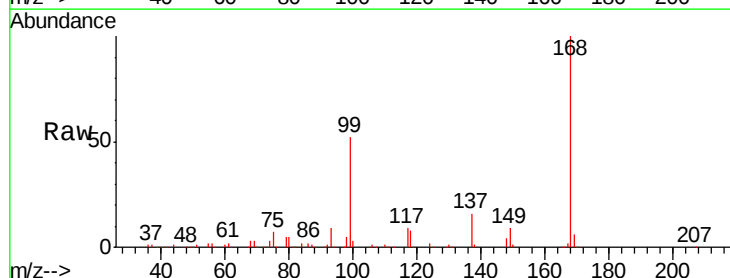
Tgt Ion: 56 Resp: 5676

Ion Ratio Lower Upper

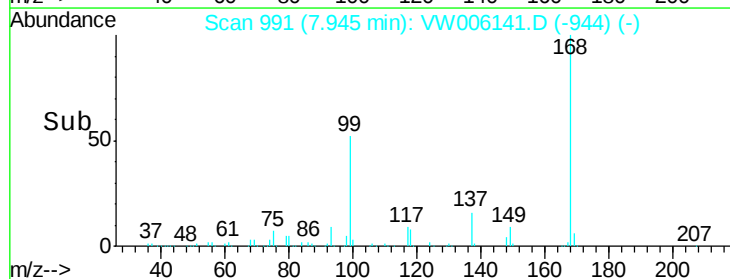
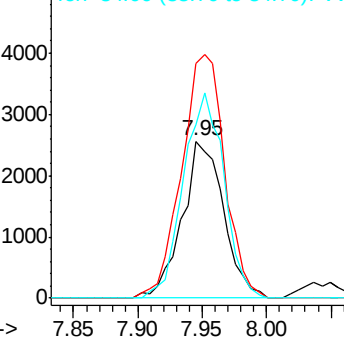
56 100

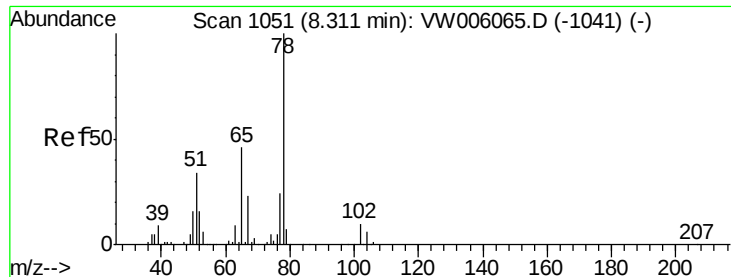
69 150.0 29.4 44.0#

84 110.6 74.0 111.0



Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

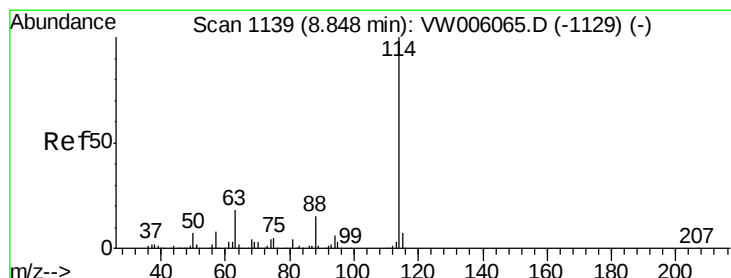
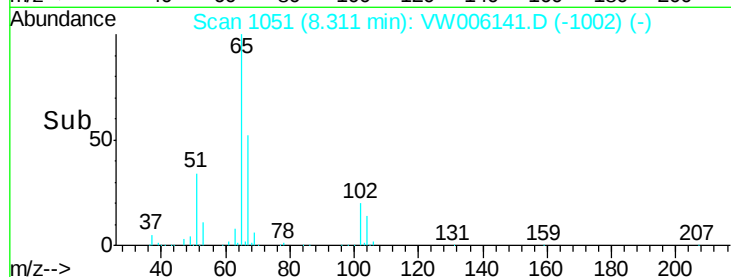
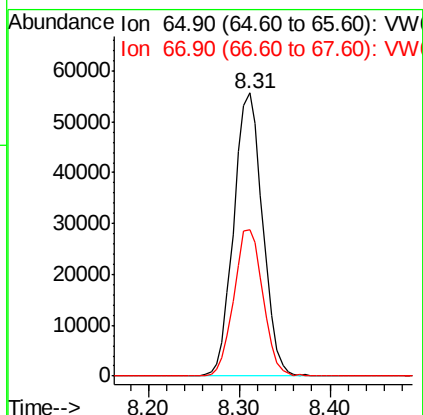
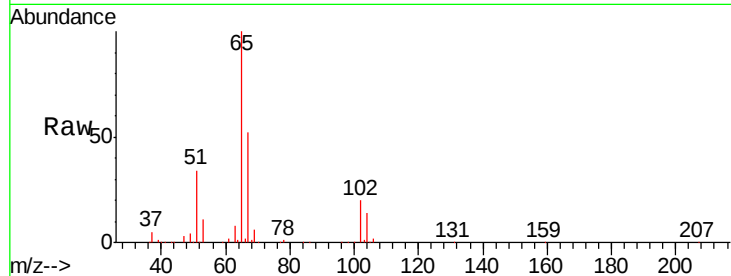




#33
 1,2-Dichloroethane-d4
 Concen: 51.50 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. 0.00 min
 Lab File: VW006141.D
 Acq: 17 Oct 2018 21:37

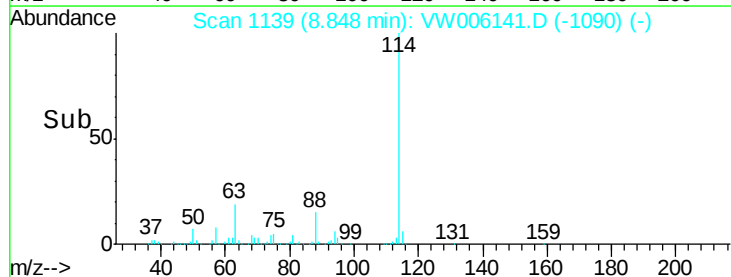
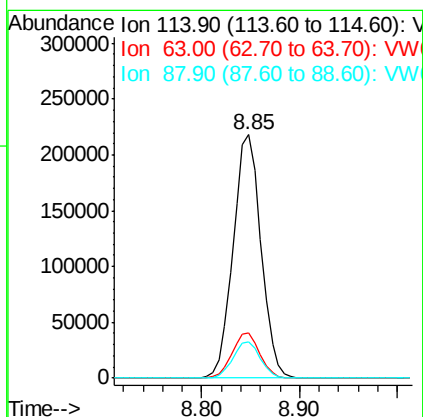
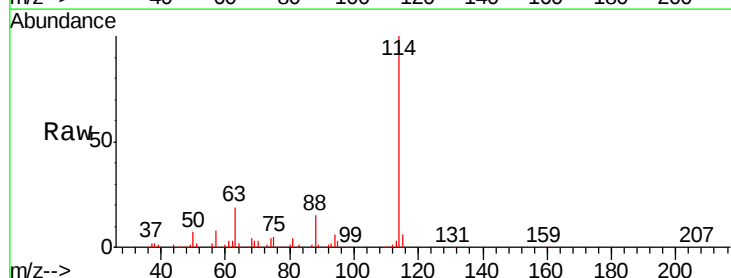
Instrument :
 MSVOA_W
 ClientSampleId :
 BS-SOIL-2

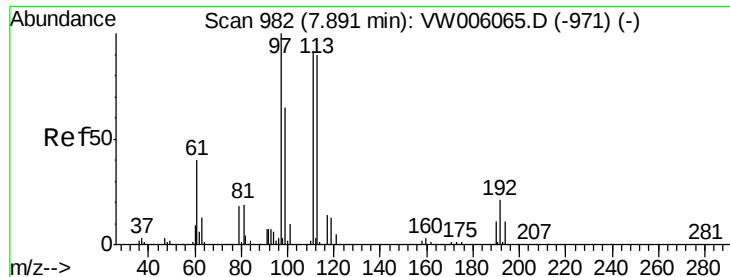
Tgt Ion: 65 Resp: 123119
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 101.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.00 min
 Lab File: VW006141.D
 Acq: 17 Oct 2018 21:37

Tgt Ion: 114 Resp: 429810
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 36.8
 88 15.0 0.0 29.0

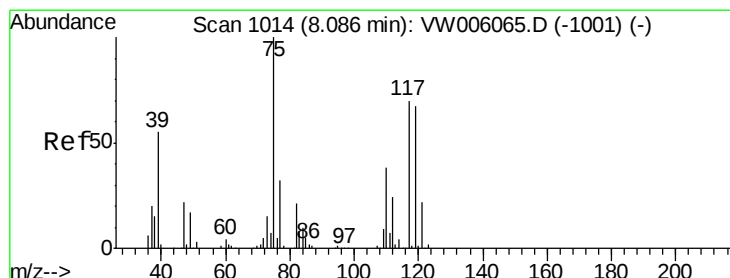
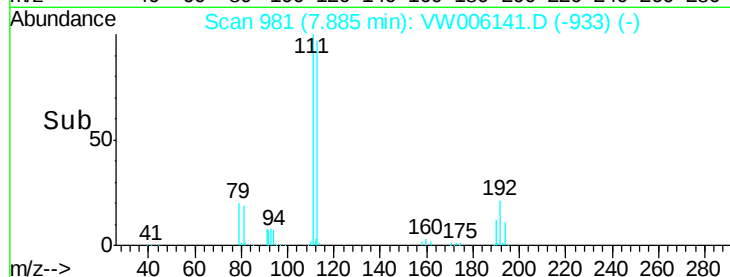
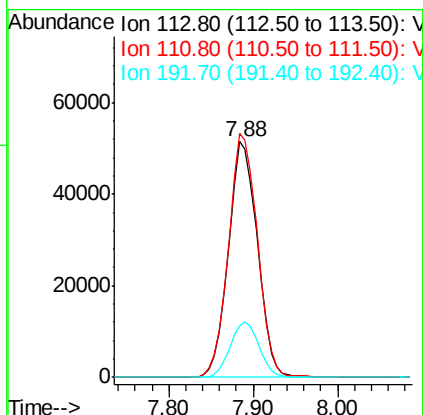
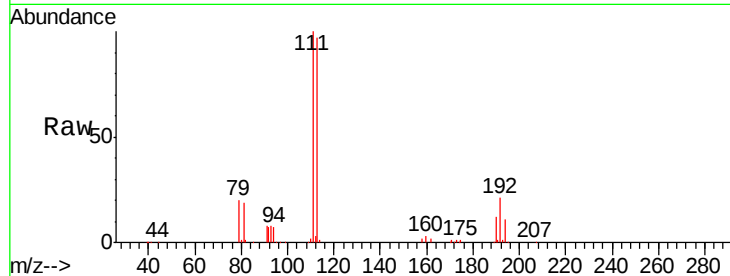




#35
 Dibromofluoromethane
 Concen: 47.30 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.01 min
 Lab File: VW006141.D
 Acq: 17 Oct 2018 21:37

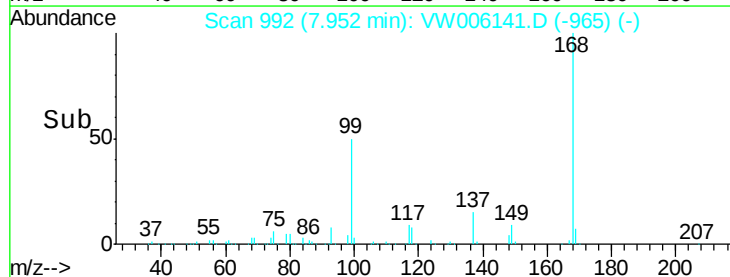
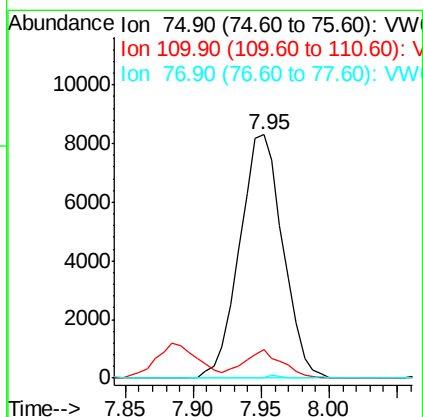
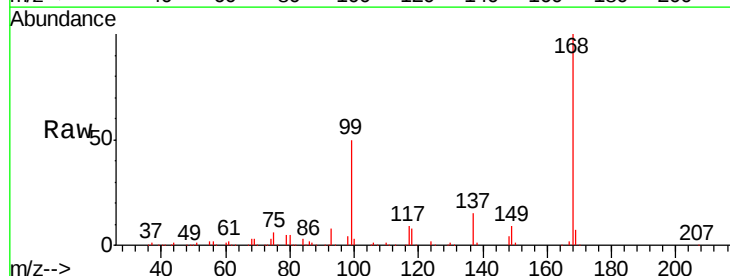
Instrument :
 MSVOA_W
 ClientSampleId :
 BS-SOIL-2

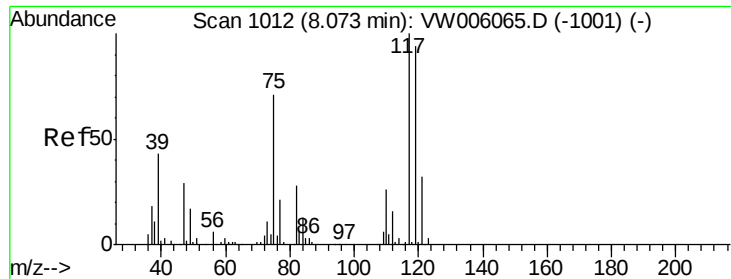
Tgt Ion:113 Resp: 120124
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.4 122.0
 192 23.4 18.7 28.1



#36
 1,1-Dichloropropene
 Concen: 4.65 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW006141.D
 Acq: 17 Oct 2018 21:37

Tgt Ion: 75 Resp: 18434
 Ion Ratio Lower Upper
 75 100
 110 10.1 19.1 57.1#
 77 0.3 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.98 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW006141.D

Acq: 17 Oct 2018 21:37

Instrument :

MSVOA_W

ClientSampled :

BS-SOIL-2

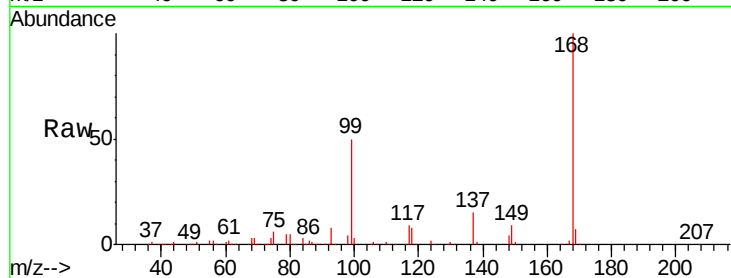
Tgt Ion:117 Resp: 25975

Ion Ratio Lower Upper

117 100

119 4.2 75.2 112.8#

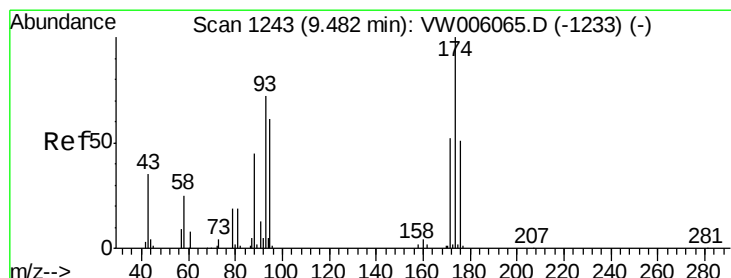
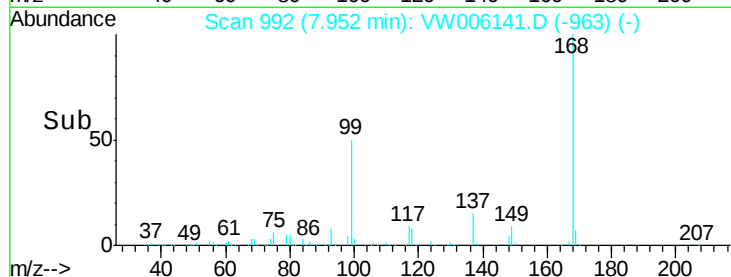
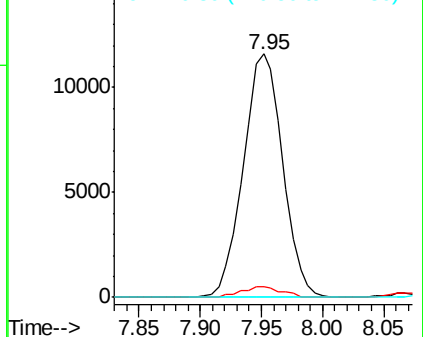
121 0.0 25.3 37.9#



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



#49

1,4-Dioxane

Concen: 2.19 ug/l

RT: 9.48 min Scan# 1242

Delta R.T. -0.01 min

Lab File: VW006141.D

Acq: 17 Oct 2018 21:37

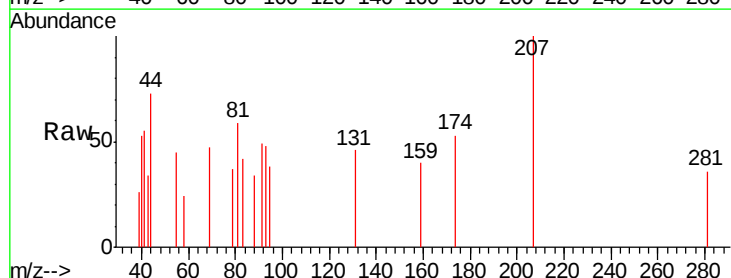
Tgt Ion: 88 Resp: 50

Ion Ratio Lower Upper

88 100

43 346.0 0.0 0.0#

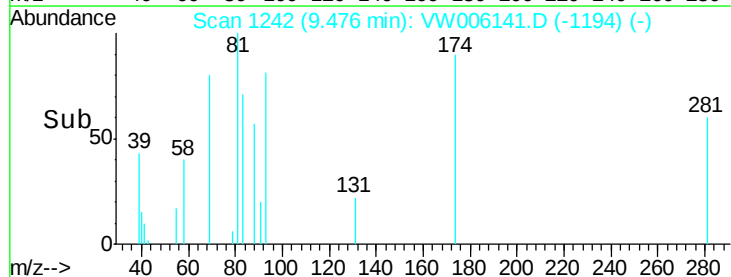
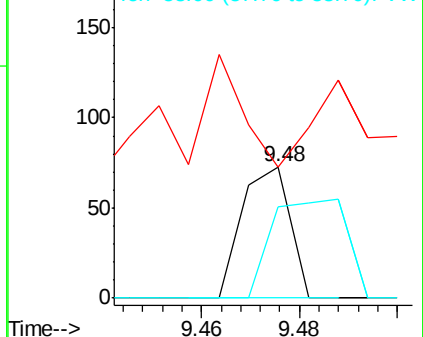
58 0.0 51.2 76.8#

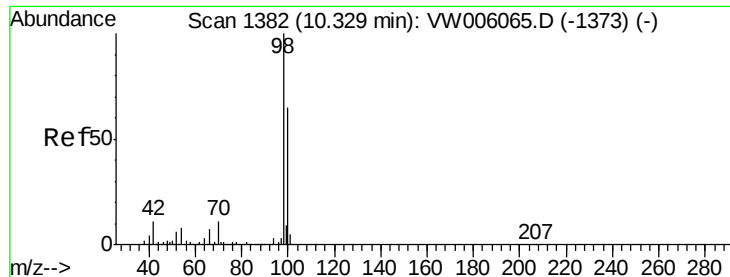


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 42.74 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW006141.D

Acq: 17 Oct 2018 21:37

Instrument :

MSVOA_W

ClientSampled :

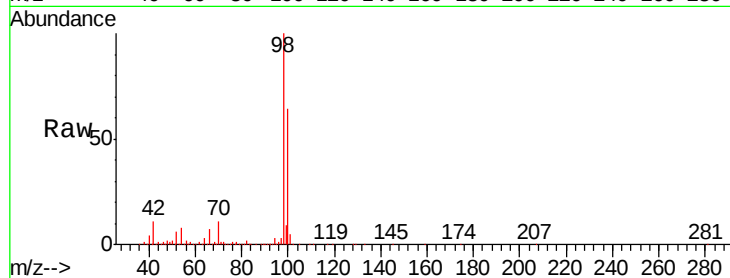
BS-SOIL-2

Tgt Ion: 98 Resp: 412950

Ion Ratio Lower Upper

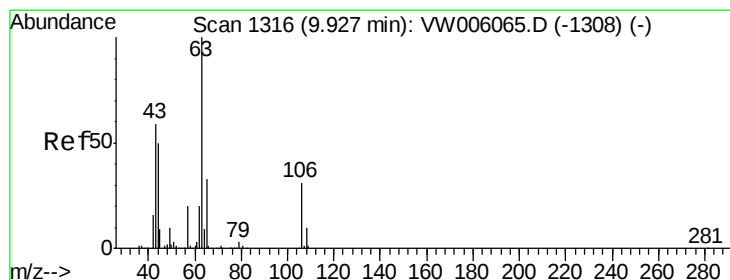
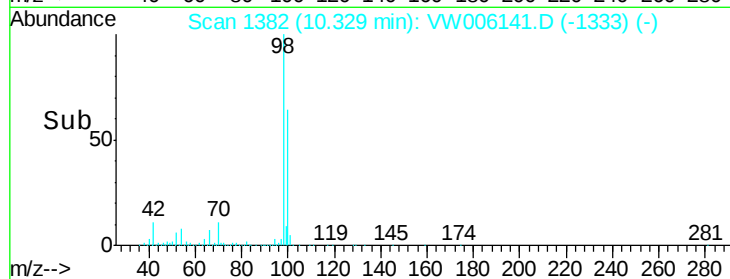
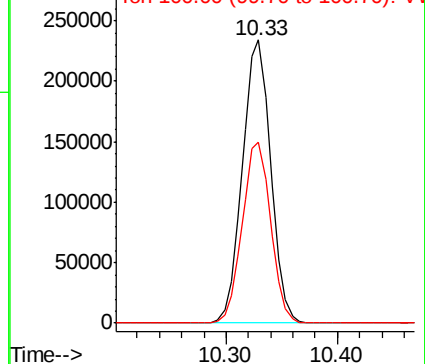
98 100

100 64.1 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#58

2-Chloroethyl Vinyl ether

Concen: 1.70 ug/l

RT: 9.93 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VW006141.D

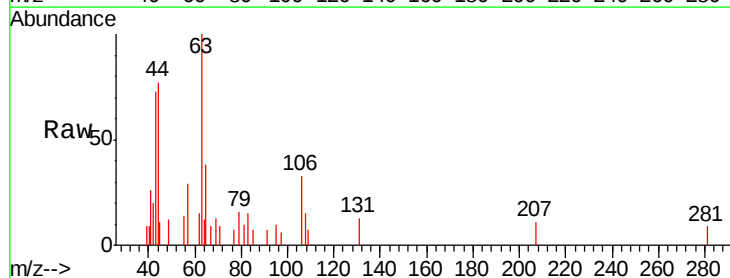
Acq: 17 Oct 2018 21:37

Tgt Ion: 63 Resp: 1656

Ion Ratio Lower Upper

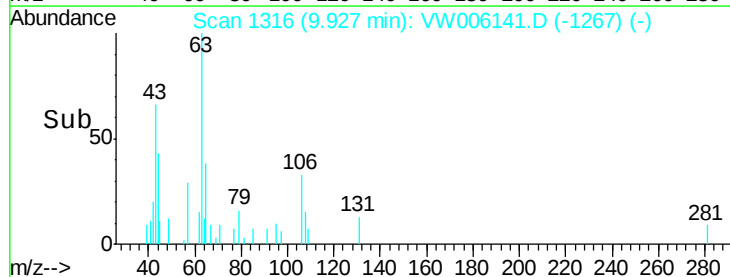
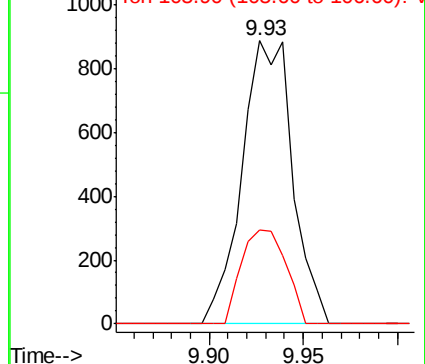
63 100

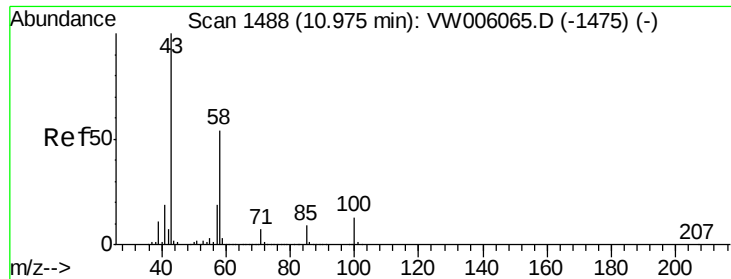
106 29.2 24.5 36.7



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 105.90 (105.60 to 106.60): VW

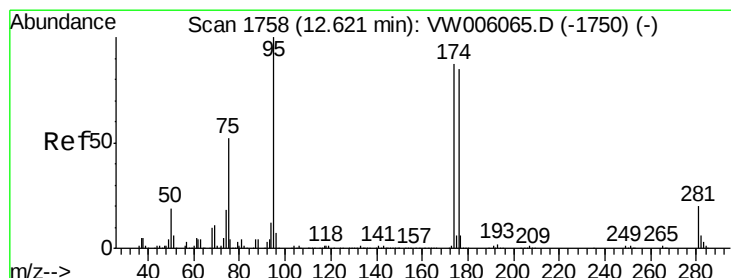
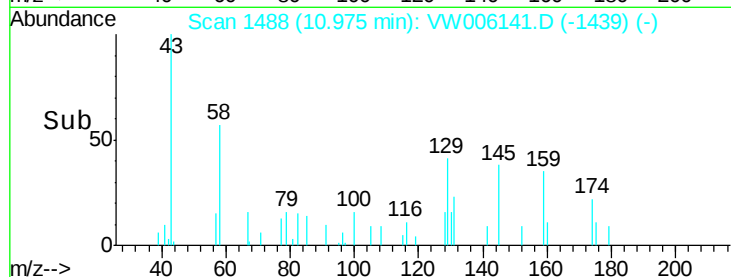
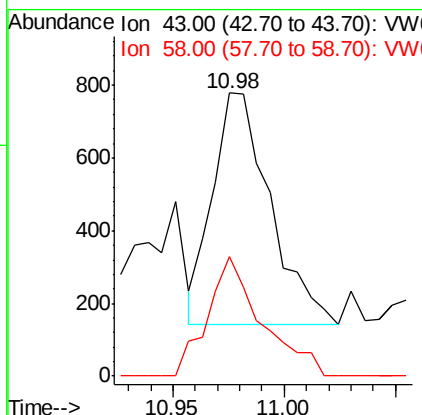
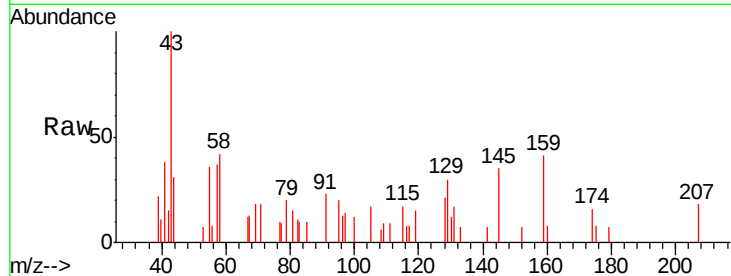




#59
2-Hexanone
Concen: 1.06 ug/l
RT: 10.98 min Scan# 1488
Delta R.T. 0.00 min
Lab File: VW006141.D
Acq: 17 Oct 2018 21:37

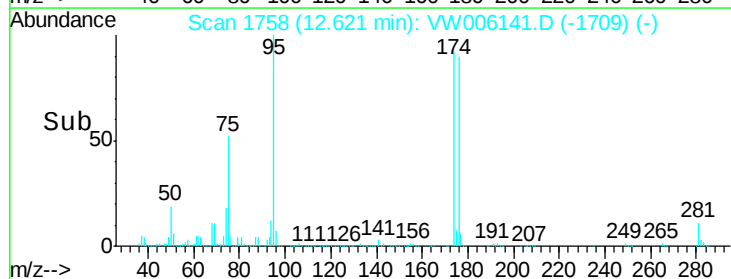
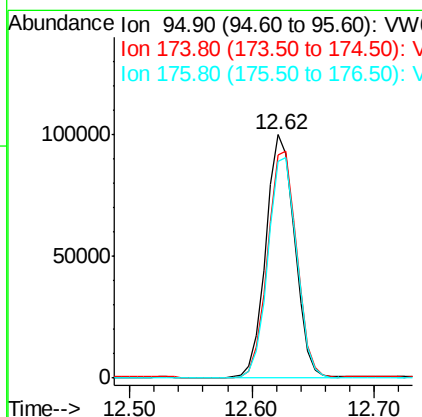
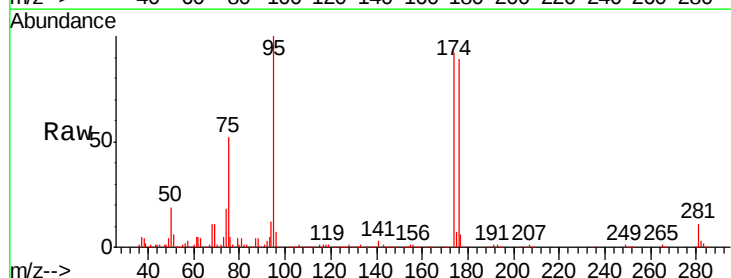
Instrument :
MSVOA_W
ClientSampleId :
BS-SOIL-2

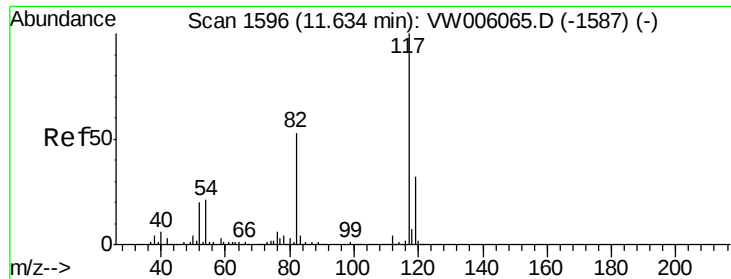
Tgt Ion: 43 Resp: 1141
Ion Ratio Lower Upper
43 100
58 48.5 26.9 80.6



#62
4-Bromofluorobenzene
Concen: 44.89 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW006141.D
Acq: 17 Oct 2018 21:37

Tgt Ion: 95 Resp: 162898
Ion Ratio Lower Upper
95 100
174 93.7 0.0 186.0
176 90.9 0.0 181.6

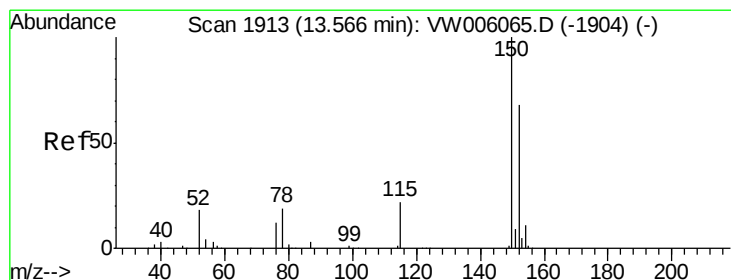
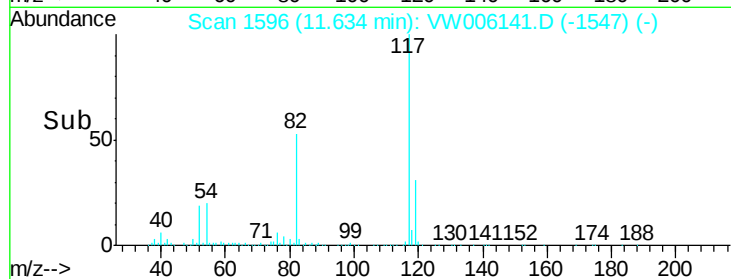
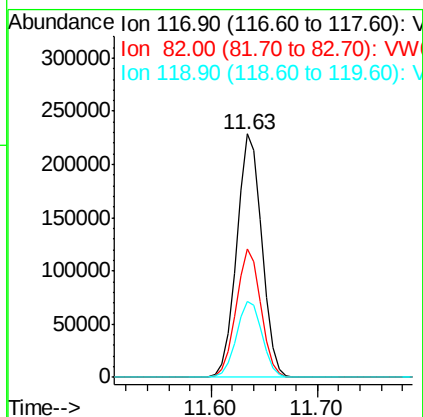
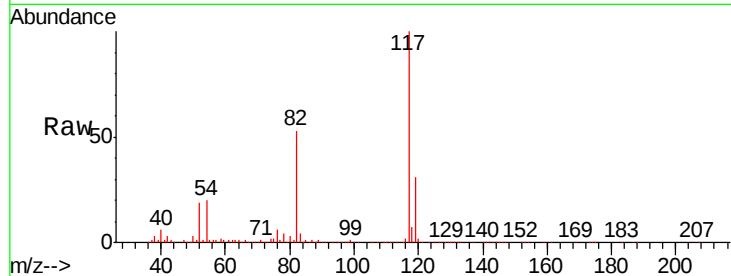




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW006141.D
Acq: 17 Oct 2018 21:37

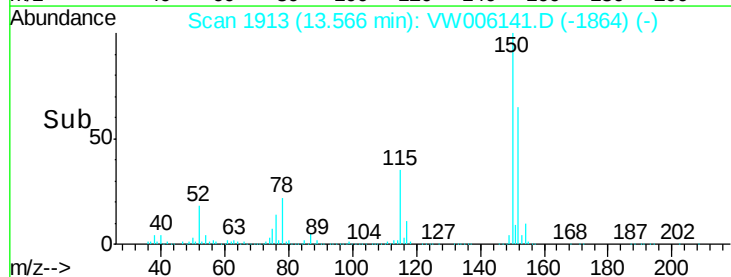
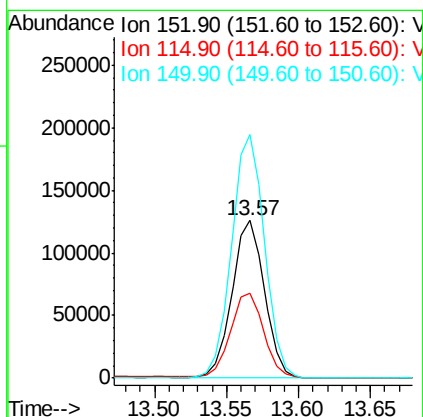
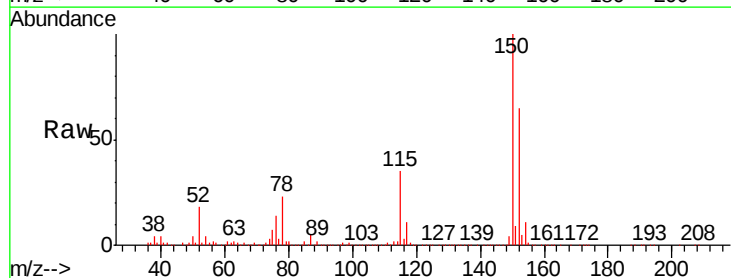
Instrument :
MSVOA_W
ClientSampleId :
BS-SOIL-2

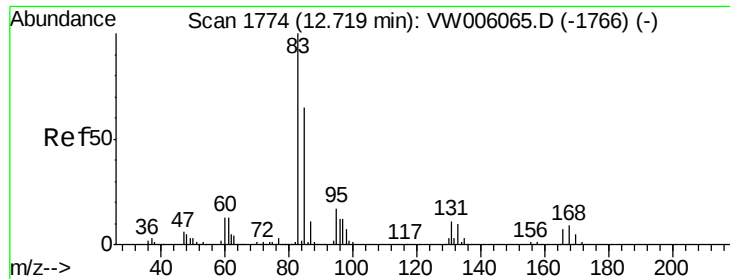
Tgt Ion:117 Resp: 377991
Ion Ratio Lower Upper
117 100
82 52.5 42.1 63.1
119 31.2 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. 0.00 min
Lab File: VW006141.D
Acq: 17 Oct 2018 21:37

Tgt Ion:152 Resp: 198082
Ion Ratio Lower Upper
152 100
115 55.3 27.8 83.3
150 156.6 0.0 349.2





#75

1,1,2,2-Tetrachloroethane

Concen: 1.27 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.01 min

Lab File: VW006141.D

Acq: 17 Oct 2018 21:37

Instrument :

MSVOA_W

ClientSampleId :

BS-SOIL-2

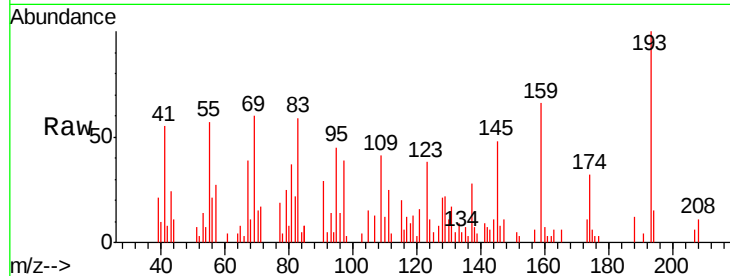
Tgt Ion: 83 Resp: 2703

Ion Ratio Lower Upper

83 100

131 17.9 5.9 17.7#

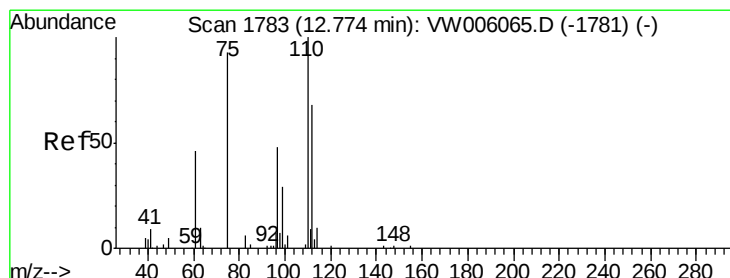
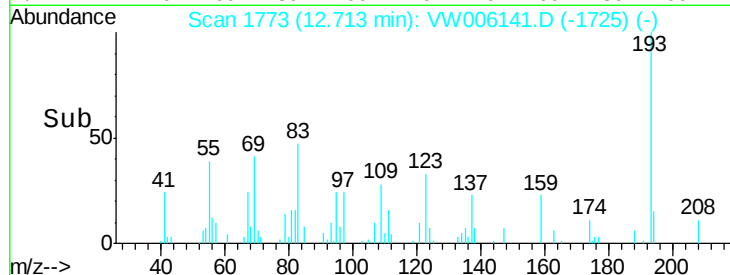
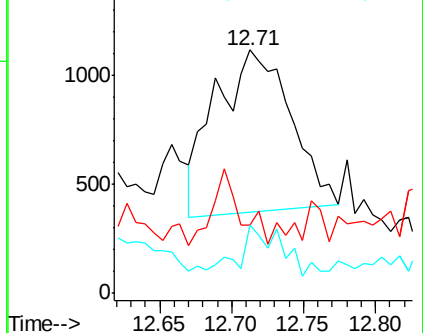
85 13.4 31.9 95.9#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 55.26 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW006141.D

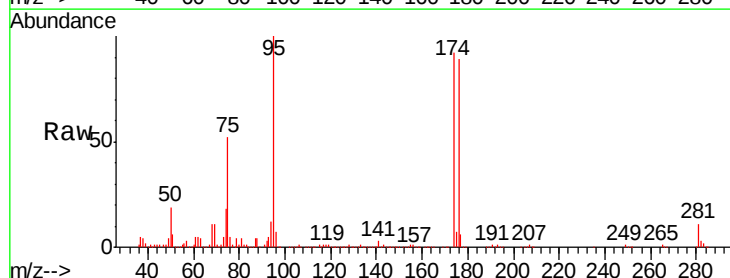
Acq: 17 Oct 2018 21:37

Tgt Ion: 75 Resp: 83608

Ion Ratio Lower Upper

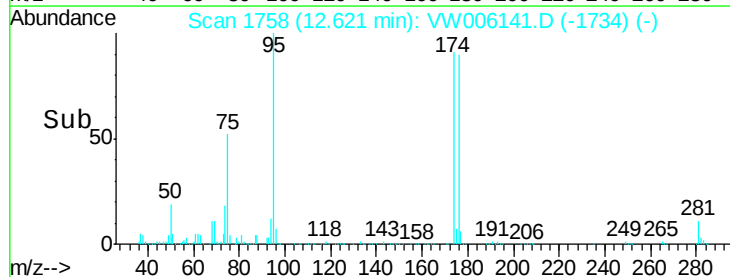
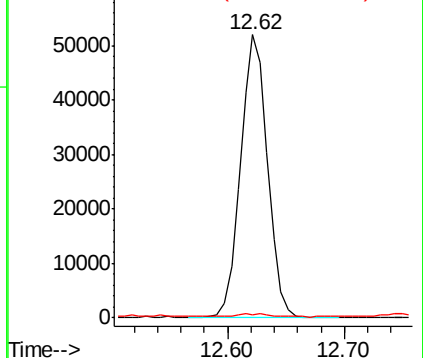
75 100

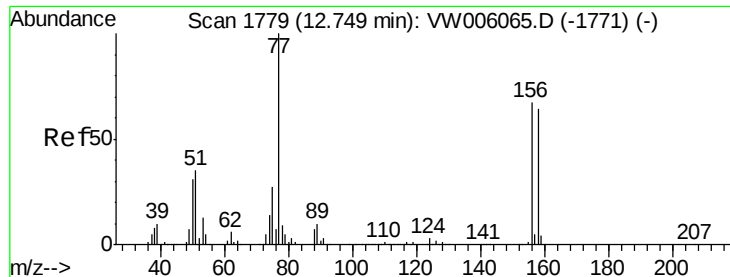
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

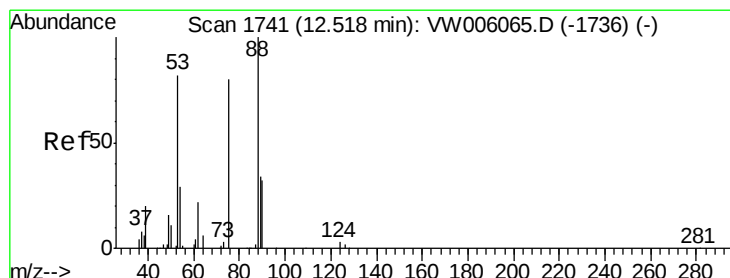
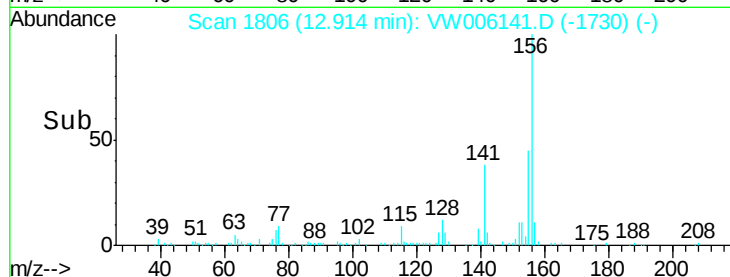
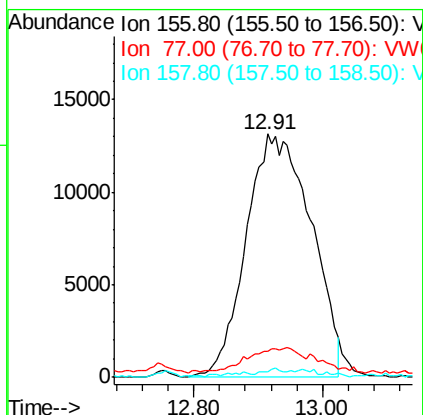
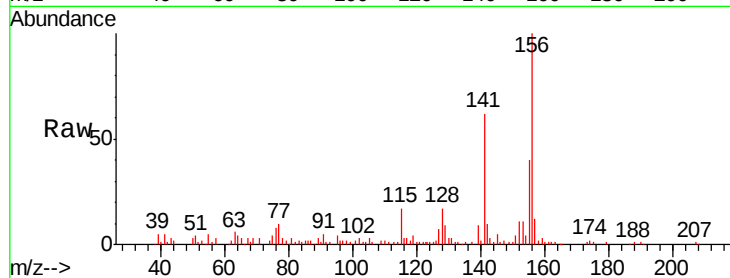




#77
Bromobenzene
Concen: 26.80 ug/l
RT: 12.91 min Scan# 1806
Delta R.T. 0.16 min
Lab File: VW006141.D
Acq: 17 Oct 2018 21:37

Instrument :
MSVOA_W
ClientSampleId :
BS-SOIL-2

Tgt Ion:156 Resp: 91850
Ion Ratio Lower Upper
156 100
77 4.9 79.1 237.4#
158 0.6 48.5 145.6#



#81
trans-1,4-Dichloro-2-butene
Concen: 132.10 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.10 min
Lab File: VW006141.D
Acq: 17 Oct 2018 21:37

Tgt Ion: 75 Resp: 83608
Ion Ratio Lower Upper
75 100
53 0.0 79.8 119.6#
89 0.0 37.5 56.3#

