

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF062818\
 Data File : VF059370.D
 Acq On : 28 Jun 2018 19:43
 Operator : VA/AP
 Sample : J3734-01
 Misc : 6.26g/5mL/MSVOA-F/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 WS-SOIL

Quant Time: Jun 29 03:12:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F062518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 26 08:45:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	230324	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	349002	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	335985	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	198662	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.02	65	127973	43.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	86.02%	
35) Dibromofluoromethane	4.29	113	121633	47.70	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.40%	
50) Toluene-d8	7.71	98	217723	34.48	ug/l	0.00
Spiked Amount 50.000			Recovery	=	68.96%	
62) 4-Bromofluorobenzene	11.51	95	147207	41.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	82.66%	

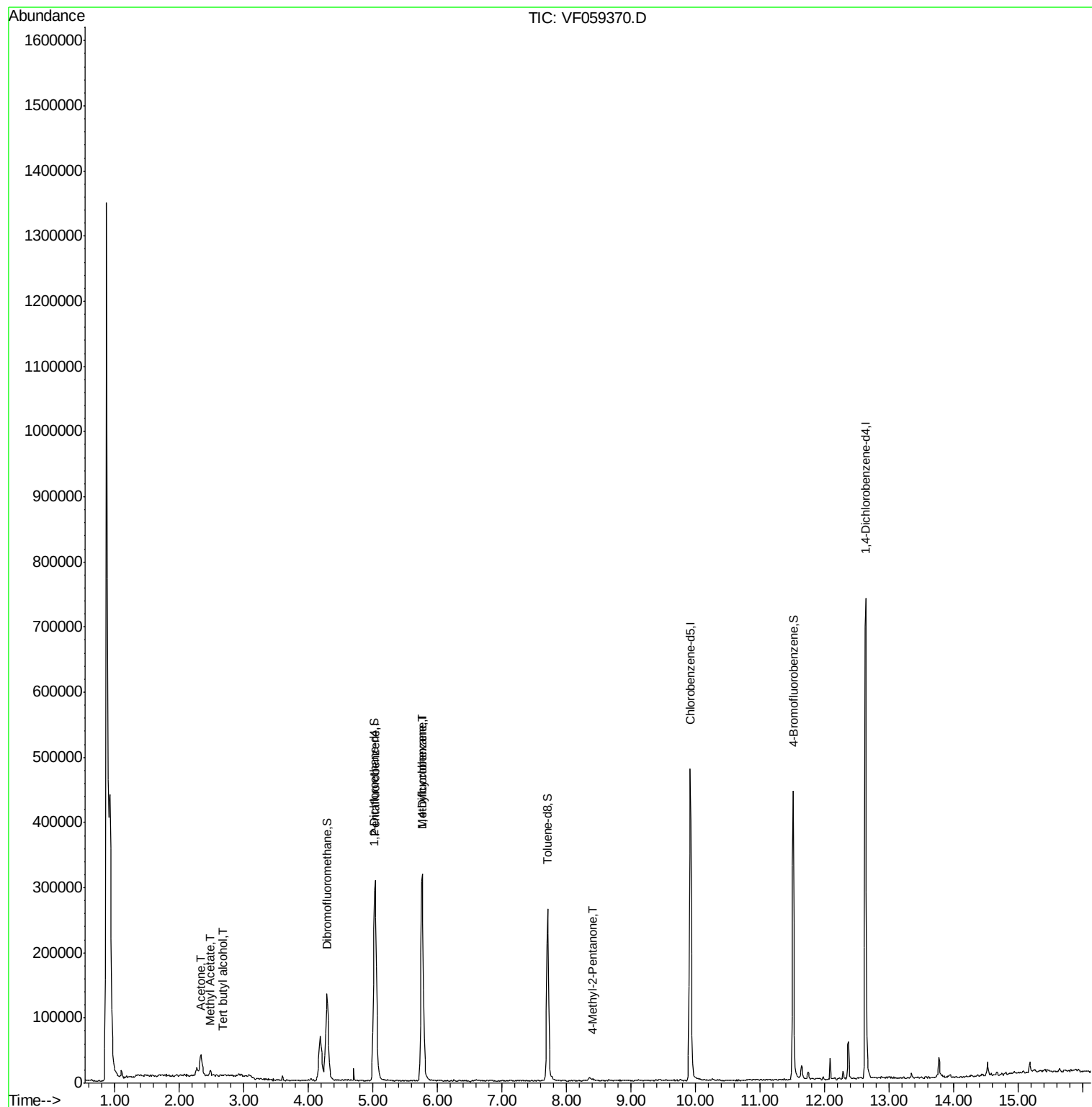
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.29	94	85	Below Cal		90
11) Tert butyl alcohol	2.67	59	1957	9.879 ug/l #		66
13) Acrolein	2.17	56	269	Below Cal		88
16) Acetone	2.33	43	49040	58.160 ug/l #		92
18) Methyl Acetate	2.47	43	3951	1.820 ug/l #		77
20) Methylene Chloride	2.27	84	4917	Below Cal #		75
25) 2-Butanone	4.51	43	2254	Below Cal #		83
28) Bromochloromethane	3.89	49	67	Below Cal #		6
29) Tetrahydrofuran	4.26	42	671	Below Cal #		54
37) Ethyl Acetate	4.31	43	559	Below Cal #		26
39) Methylcyclohexane	5.76	83	3867	1.431 ug/l #		38
49) 1,4-Dioxane	6.76	88	61	Below Cal #		20
51) 4-Methyl-2-Pentanone	8.41	43	2111	1.122 ug/l		91
59) 2-Hexanone	9.64	43	1542	Below Cal		95
87) 1,3-Dichlorobenzene	12.56	146	297	Below Cal #		64

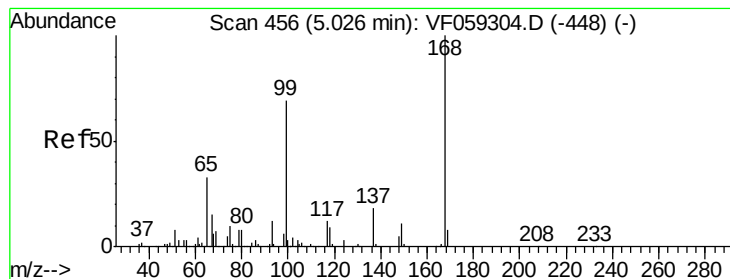
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.01 min

Lab File: VF059370.D

Acq: 28 Jun 2018 19:43

Instrument :

MSVOA_F

ClientSampleId :

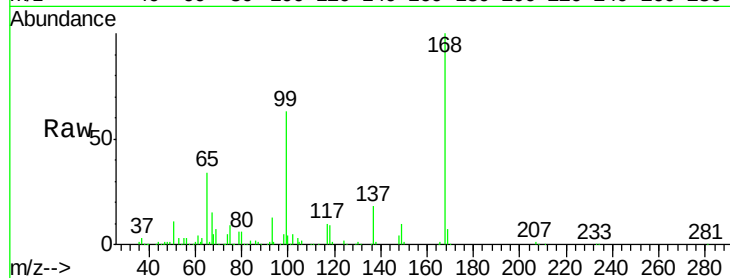
WS-SOIL

Tot Ion:168 Resp: 230324

Ion Ratio Lower Upper

168 100

99 63.3 54.9 82.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

80000

60000

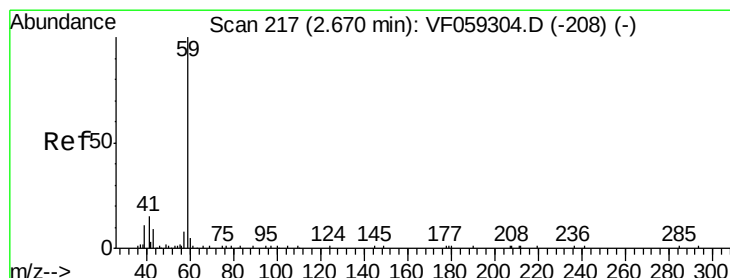
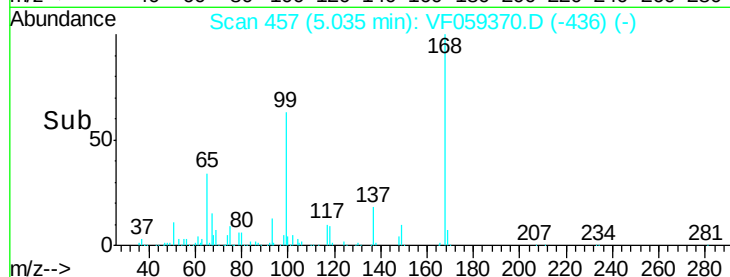
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#11

Tert butyl alcohol

Concen: 9.879 ug/l

RT: 2.67 min Scan# 217

Delta R.T. -0.00 min

Lab File: VF059370.D

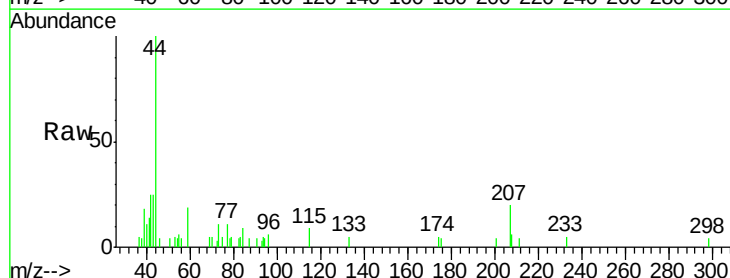
Acq: 28 Jun 2018 19:43

Tgt Ion: 59 Resp: 1957

Ion Ratio Lower Upper

59 100

57 0.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.67

600

500

400

300

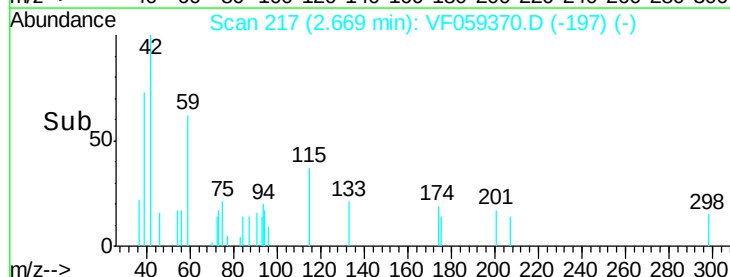
200

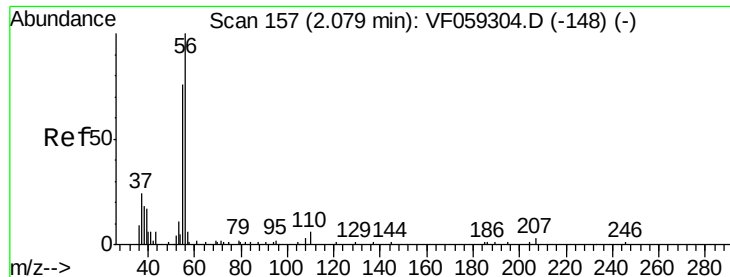
100

0

Time-->

2.55 2.60 2.65 2.70 2.75





#13

Acrolein

Concen: Below Cal

RT: 2.17 min Scan# 166

Delta R.T. 0.09 min

Lab File: VF059370.D

Acq: 28 Jun 2018 19:43

Instrument :

MSVOA_F

ClientSampled :

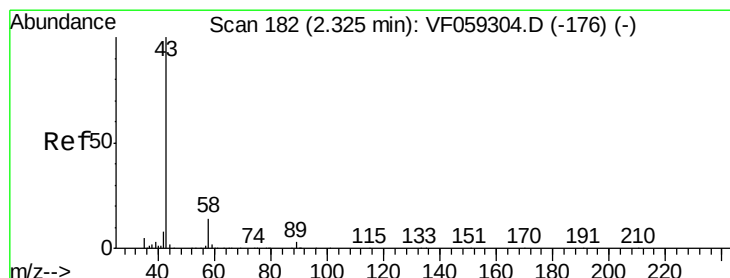
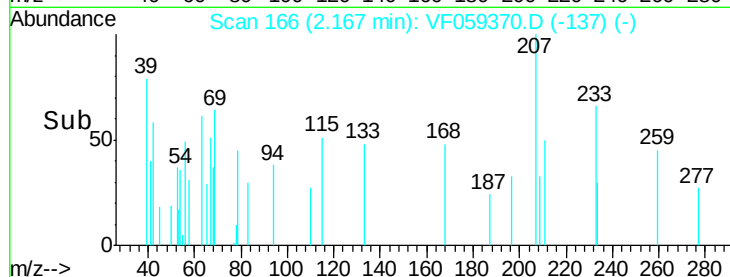
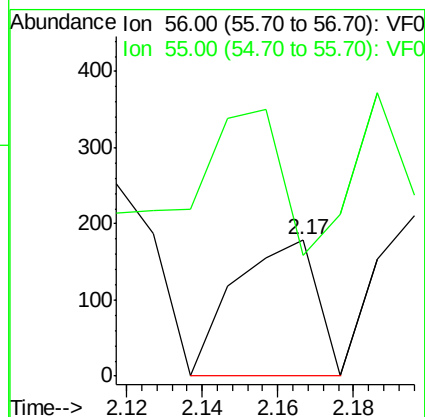
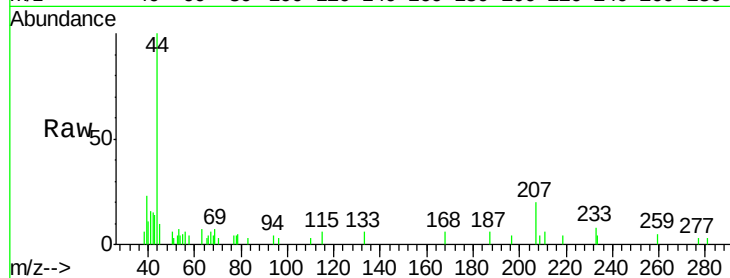
WS-SOIL

Tot Ion: 56 Resp: 269

Ion Ratio Lower Upper

56 100

55 88.8 62.4 93.6



#16

Acetone

Concen: 58.160 ug/l

RT: 2.33 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF059370.D

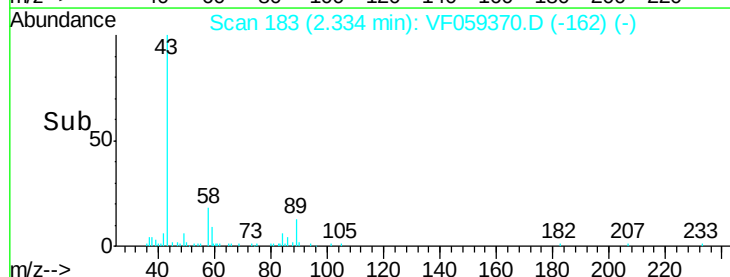
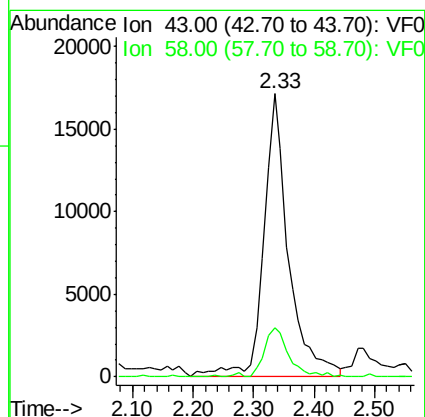
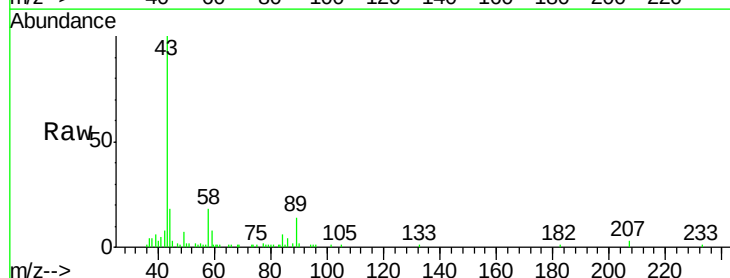
Acq: 28 Jun 2018 19:43

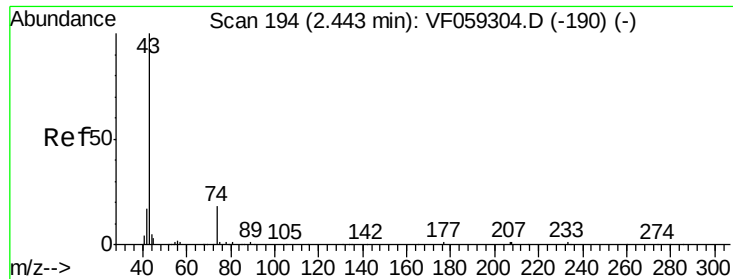
Tgt Ion: 43 Resp: 49040

Ion Ratio Lower Upper

43 100

58 17.5 11.4 17.0#

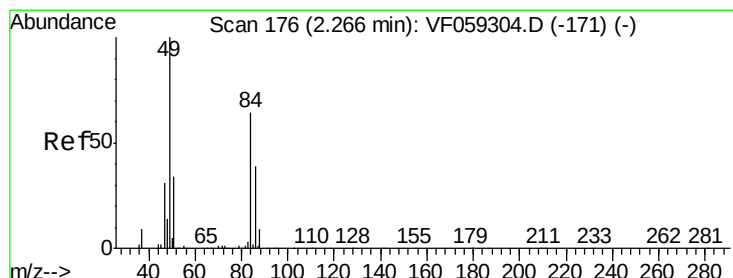
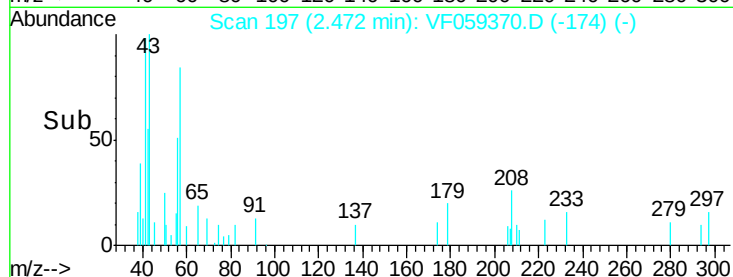
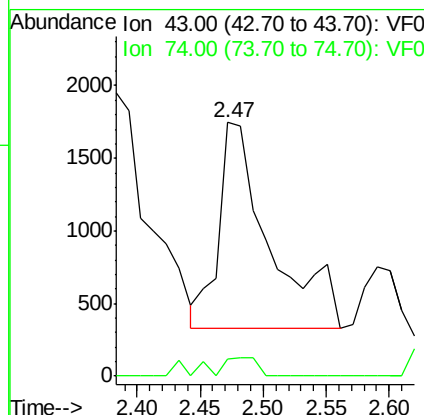
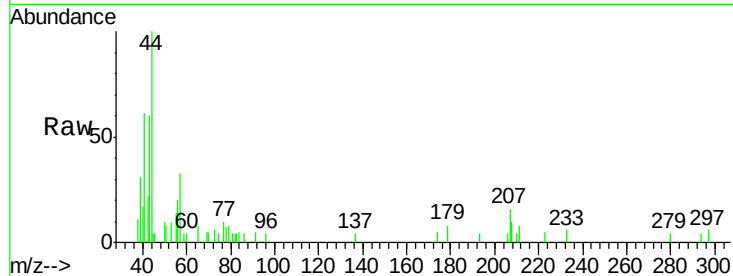




#18
Methvl Acetate
Concen: 1.820 ug/l
RT: 2.47 min Scan# 197
Delta R.T. 0.03 min
Lab File: VF059370.D
Acq: 28 Jun 2018 19:43

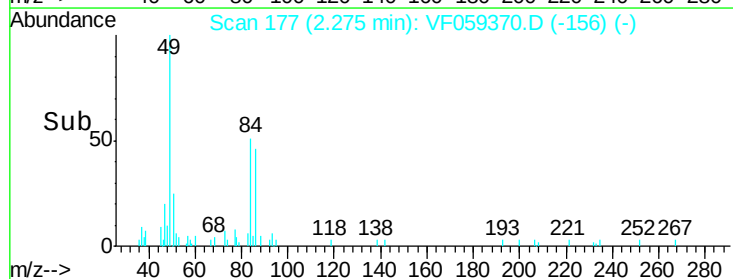
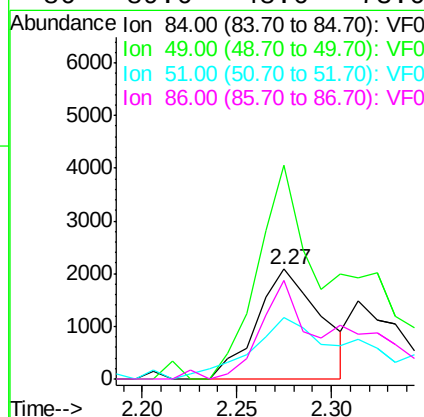
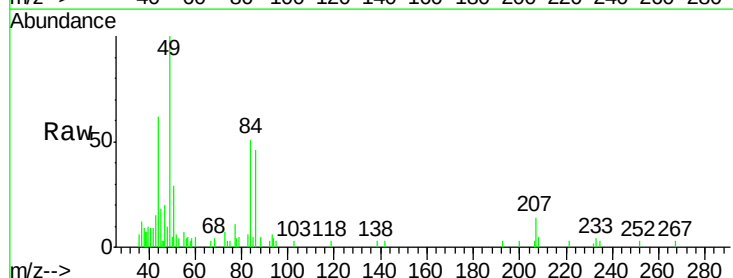
Instrument :
MSVOA_F
ClientSampled :
WS-SOIL

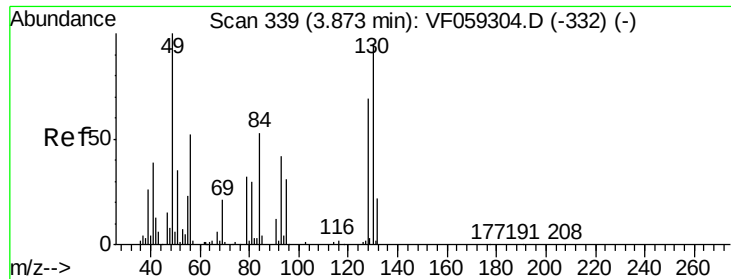
Tot Ion: 43 Resp: 3951
Ion Ratio Lower Upper
43 100
74 6.8 13.3 19.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF059370.D
Acq: 28 Jun 2018 19:43

Tgt Ion: 84 Resp: 4917
Ion Ratio Lower Upper
84 100
49 195.0 126.5 189.7#
51 55.9 42.9 64.3
86 89.6 48.6 73.0#





#28

Bromochloromethane

Concen: Below Cal

RT: 3.89 min Scan# 341

Delta R.T. 0.02 min

Lab File: VF059370.D

Acq: 28 Jun 2018 19:43

Instrument :

MSVOA_F

ClientSampled :

WS-SOIL

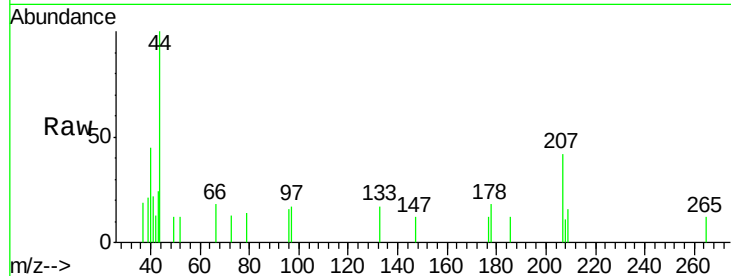
Tot Ion: 49 Resp: 67

Ion Ratio Lower Upper

49 100

129 0.0 0.0 6.4

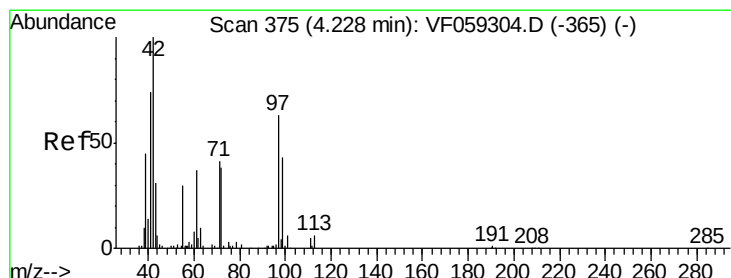
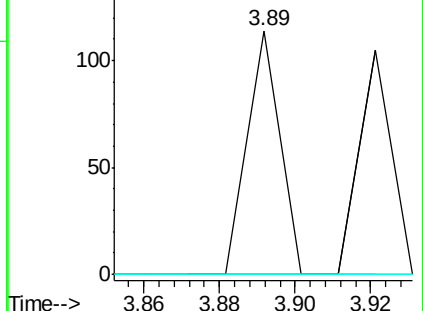
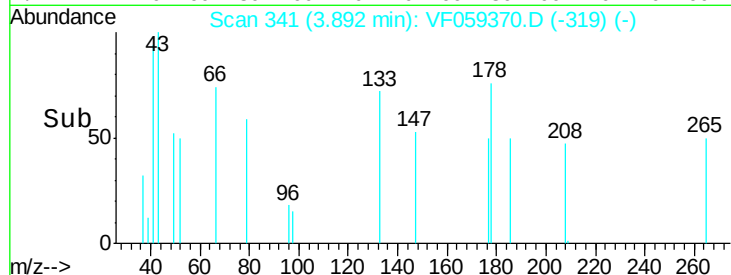
130 0.0 75.1 112.7#



Abundance Ion 49.00 (48.70 to 49.70): VF0

Ion 129.00 (128.70 to 129.70): VF0

Ion 130.00 (129.70 to 130.70): VF0



#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.26 min Scan# 378

Delta R.T. 0.03 min

Lab File: VF059370.D

Acq: 28 Jun 2018 19:43

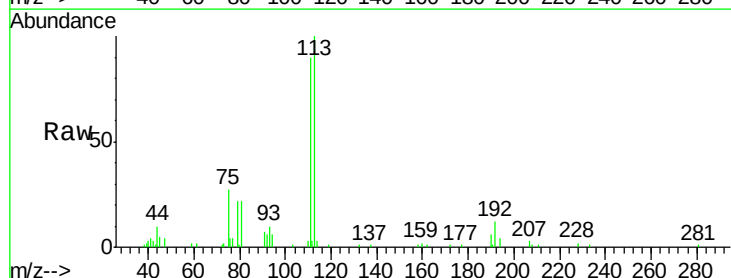
Tgt Ion: 42 Resp: 671

Ion Ratio Lower Upper

42 100

72 22.4 30.5 45.7#

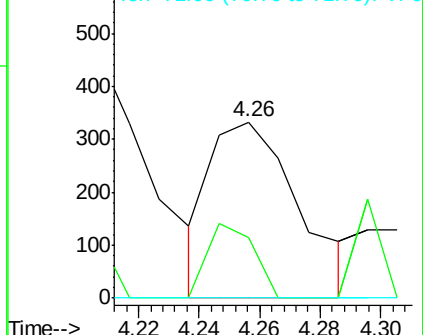
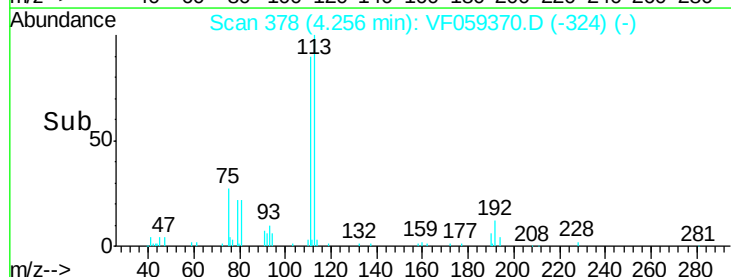
71 0.0 32.5 48.7#

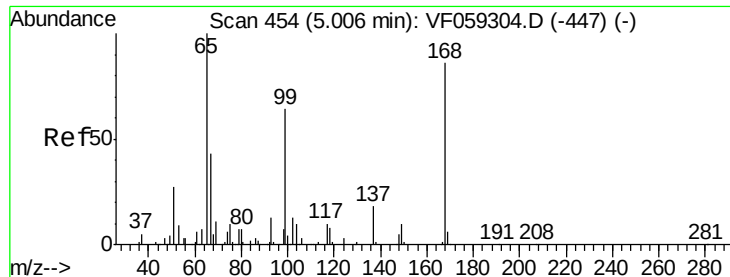


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 43.005 ug/l

RT: 5.02 min Scan# 455

Delta R.T. 0.01 min

Lab File: VF059370.D

Acq: 28 Jun 2018 19:43

Instrument :

MSVOA_F

ClientSampled :

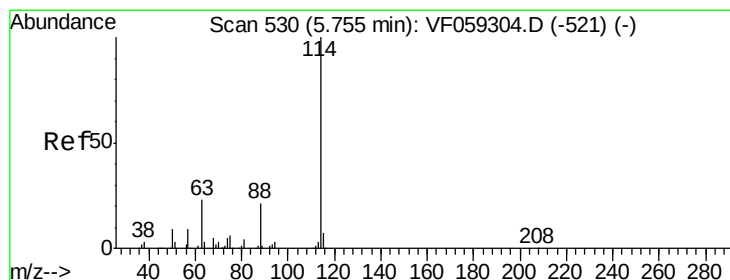
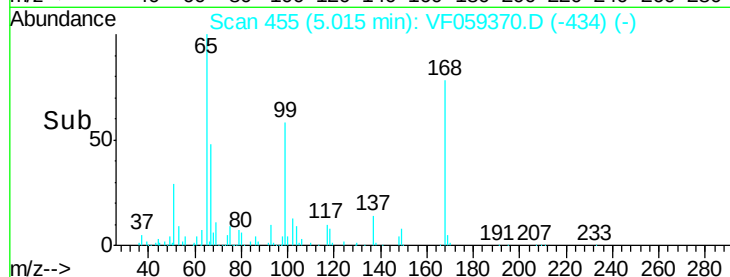
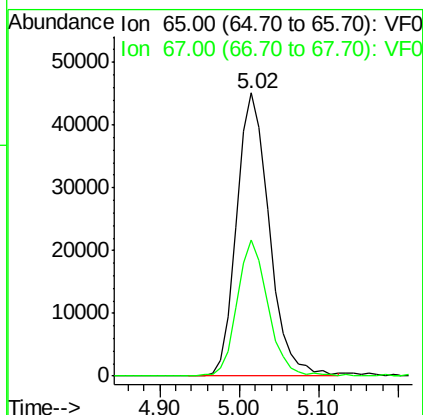
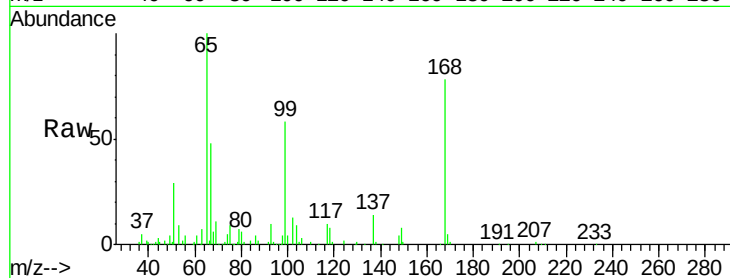
WS-SOIL

Tot Ion: 65 Resp: 127973

Ion Ratio Lower Upper

65 100

67 48.1 0.0 96.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 531

Delta R.T. 0.01 min

Lab File: VF059370.D

Acq: 28 Jun 2018 19:43

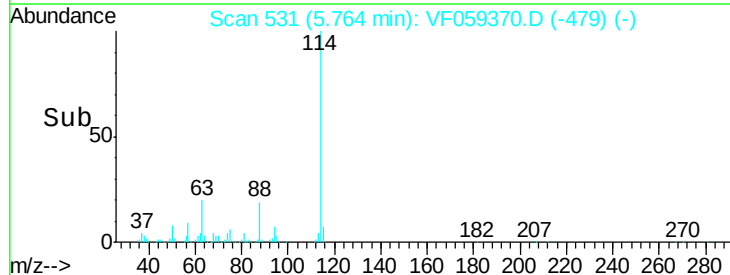
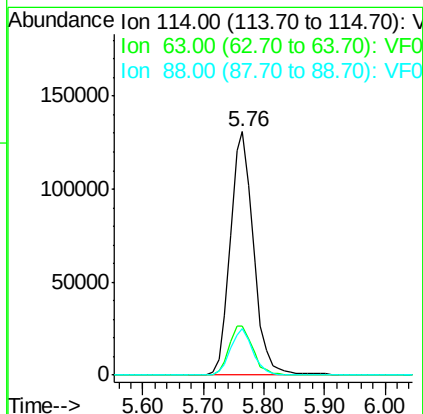
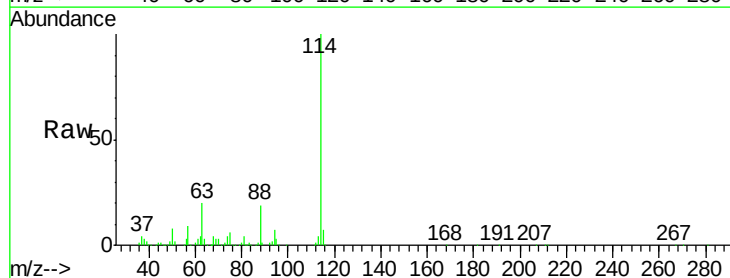
Tgt Ion: 114 Resp: 349002

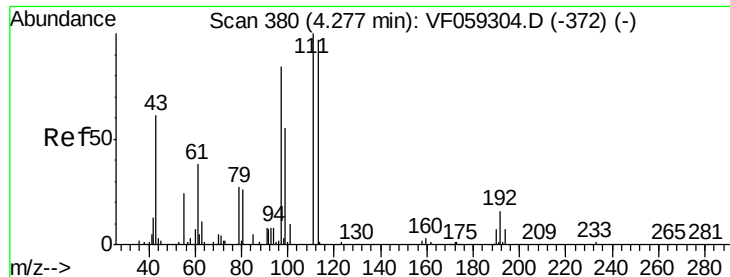
Ion Ratio Lower Upper

114 100

63 20.3 0.0 45.8

88 19.2 0.0 41.2

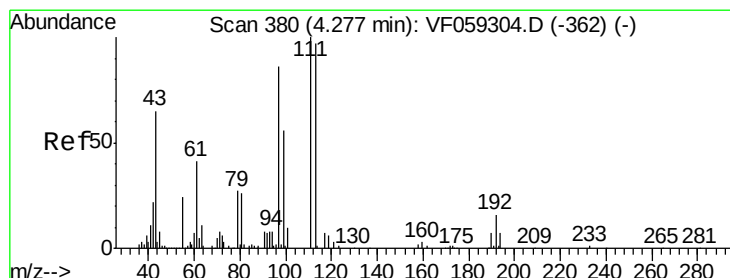
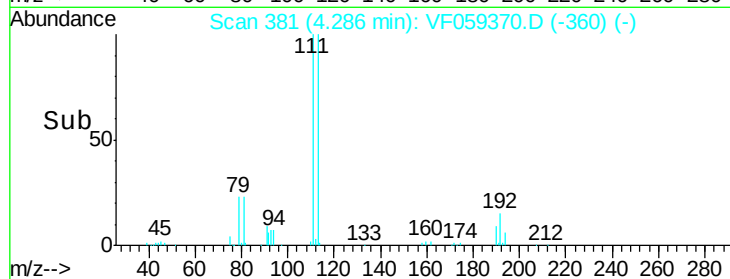
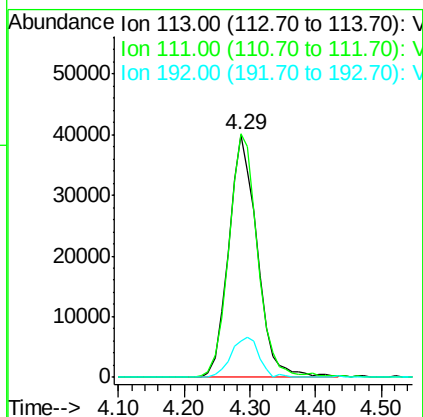
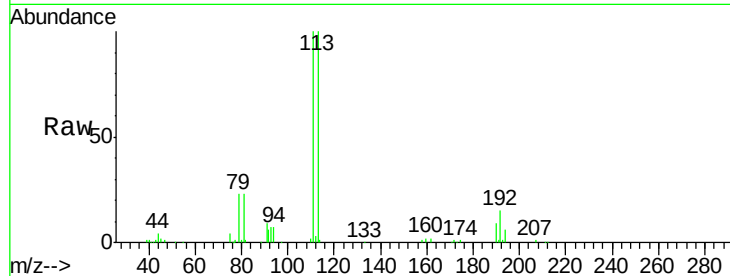




#35
 Dibromofluoromethane
 Concen: 47.698 ug/l
 RT: 4.29 min Scan# 381
 Delta R.T. 0.01 min
 Lab File: VF059370.D
 Acq: 28 Jun 2018 19:43

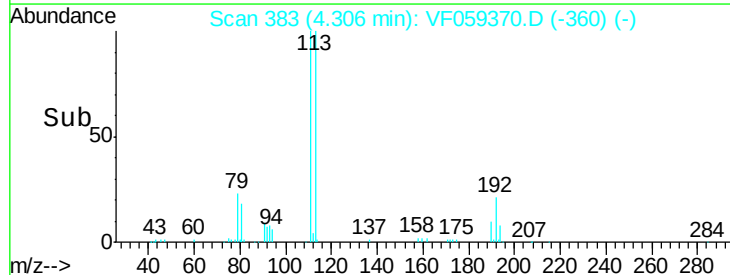
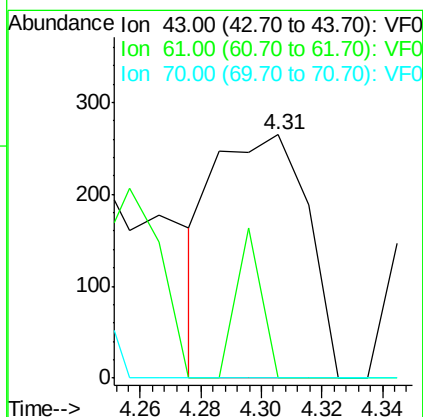
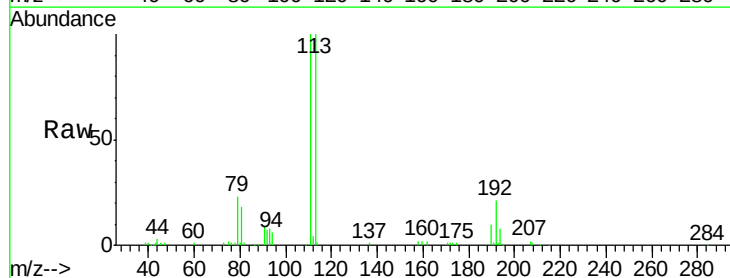
Instrument :
 MSVOA_F
 ClientSampleId :
 WS-SOIL

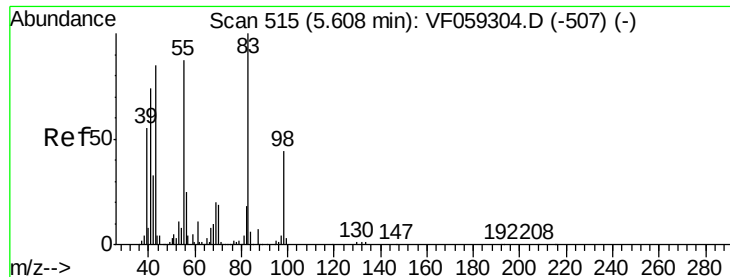
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.3	82.1	123.1
192	14.9	13.0	19.6



#37
 Ethyl Acetate
 Concen: Below Cal
 RT: 4.31 min Scan# 383
 Delta R.T. 0.03 min
 Lab File: VF059370.D
 Acq: 28 Jun 2018 19:43

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	50.1	75.1#
70	0.0	6.2	9.4#

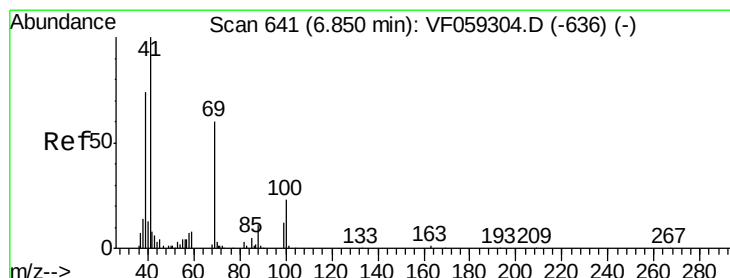
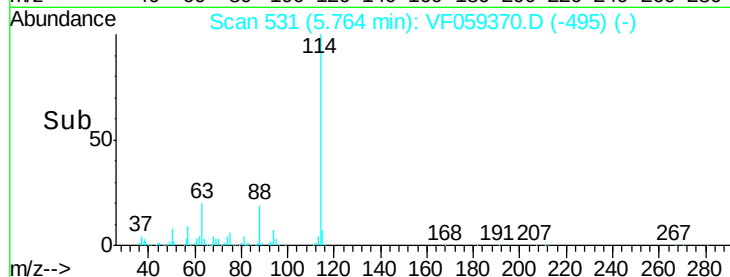
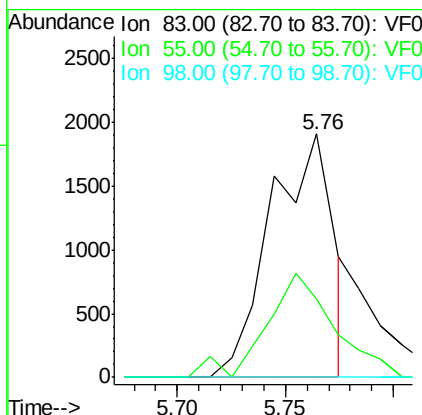
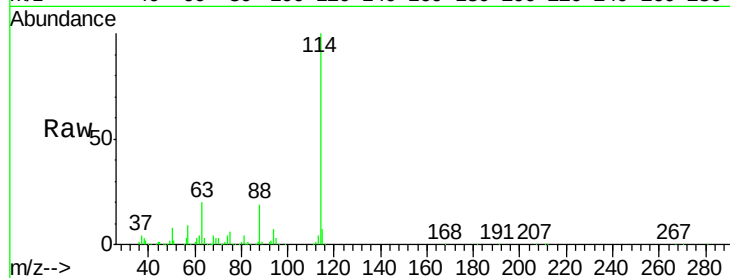




#39
Methylcyclohexane
Concen: 1.431 ug/l
RT: 5.76 min Scan# 531
Delta R.T. 0.16 min
Lab File: VF059370.D
Acq: 28 Jun 2018 19:43

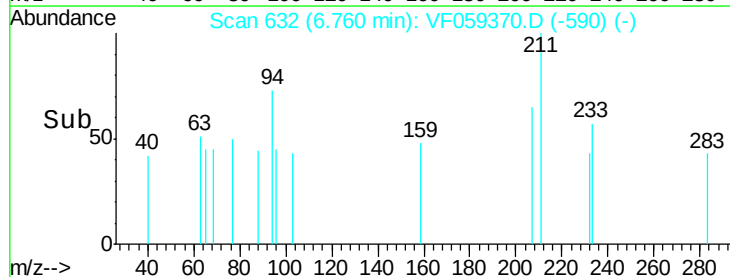
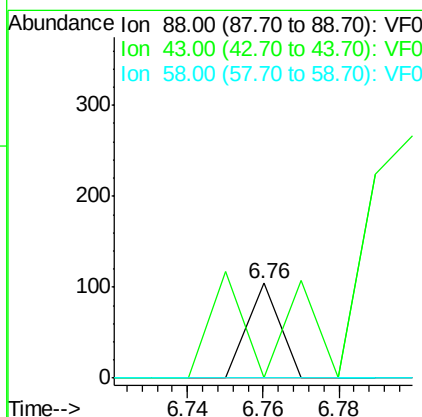
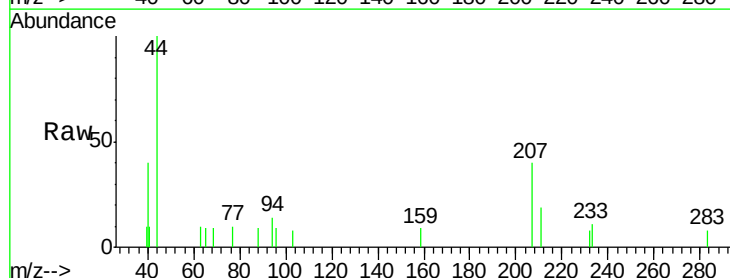
Instrument :
MSVOA_F
ClientSampled :
WS-SOIL

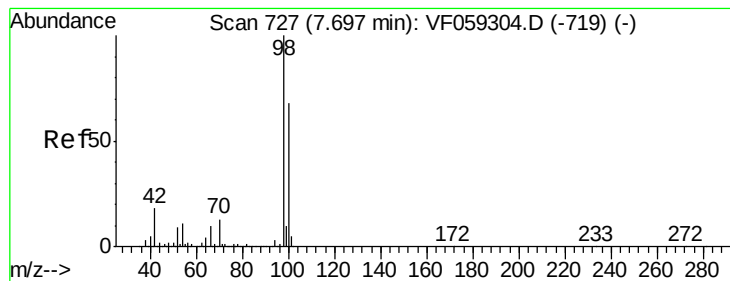
Tot Ion	83	Resp	3867
Ion Ratio	Lower	Upper	
83	100		
55	32.2	69.2	103.8#
98	0.0	35.0	52.6#



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.76 min Scan# 632
Delta R.T. -0.09 min
Lab File: VF059370.D
Acq: 28 Jun 2018 19:43

Tgt Ion	88	Resp	61
Ion Ratio	Lower	Upper	
88	100		
43	0.0	50.6	75.8#
58	0.0	46.6	69.8#





#50

Toluene-d8

Concen: 34.484 ug/l

RT: 7.71 min Scan# 728

Delta R.T. 0.01 min

Lab File: VF059370.D

Acq: 28 Jun 2018 19:43

Instrument :

MSVOA_F

ClientSampleId :

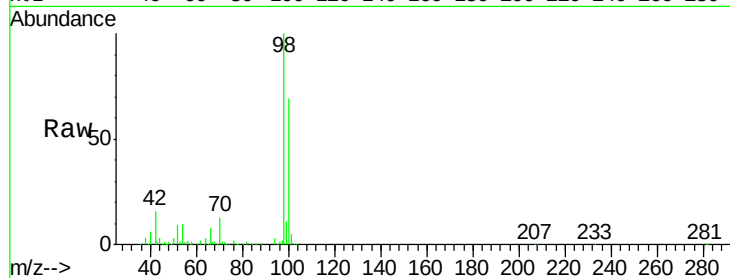
WS-SOIL

Tot Ion: 98 Resp: 217723

Ion Ratio Lower Upper

98 100

100 69.1 54.6 82.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.71

100000

80000

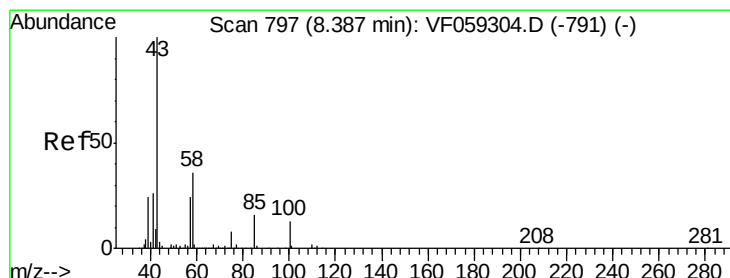
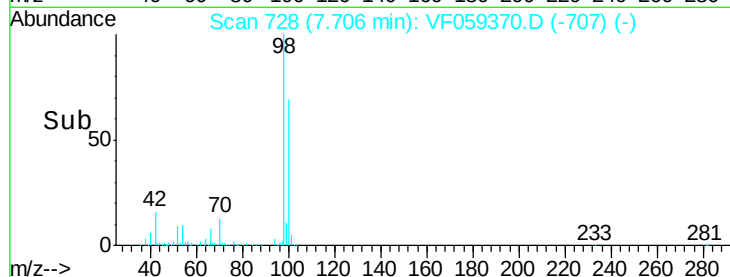
60000

40000

20000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.122 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.02 min

Lab File: VF059370.D

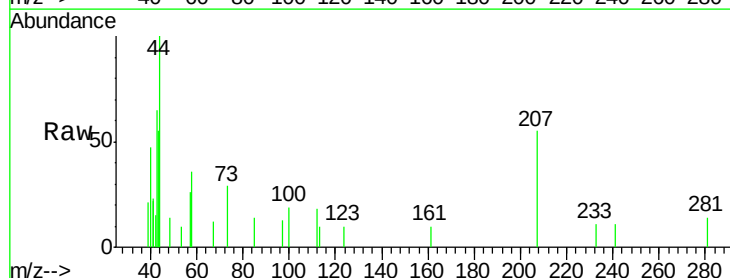
Acq: 28 Jun 2018 19:43

Tgt Ion: 43 Resp: 2111

Ion Ratio Lower Upper

43 100

58 30.3 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.41

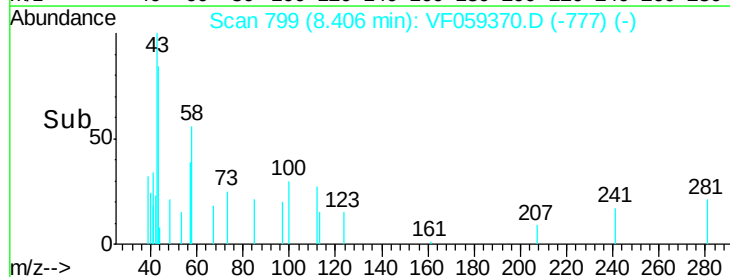
1500

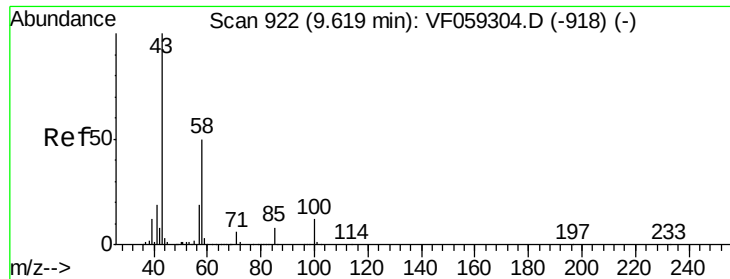
1000

500

0

Time-->

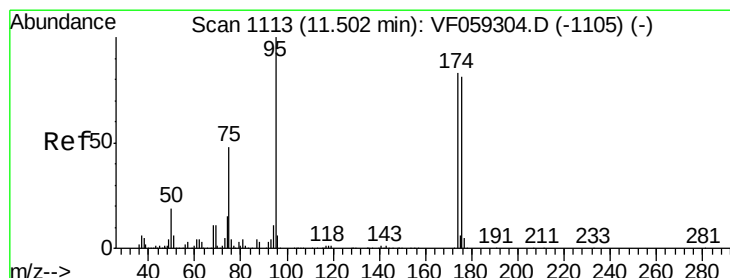
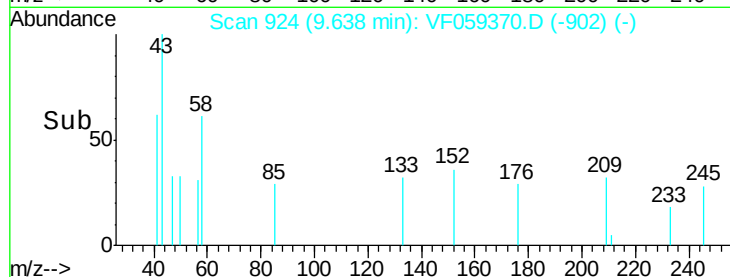
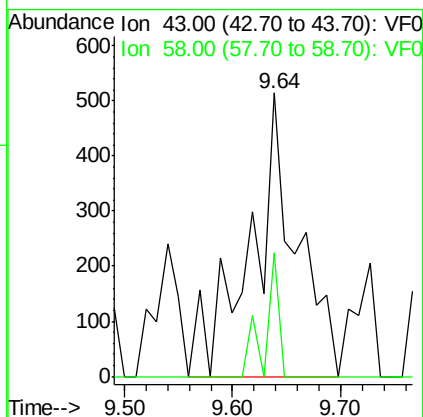
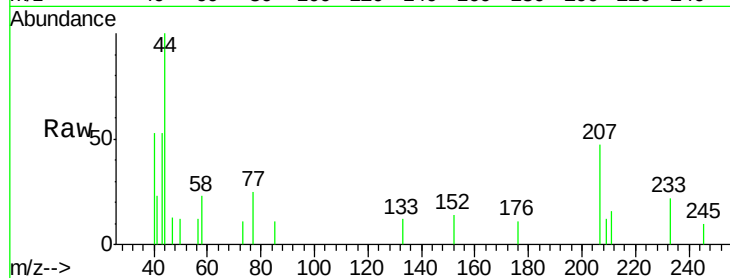




#59
2-Hexanone
Concen: Below Cal
RT: 9.64 min Scan# 924
Delta R.T. 0.02 min
Lab File: VF059370.D
Acq: 28 Jun 2018 19:43

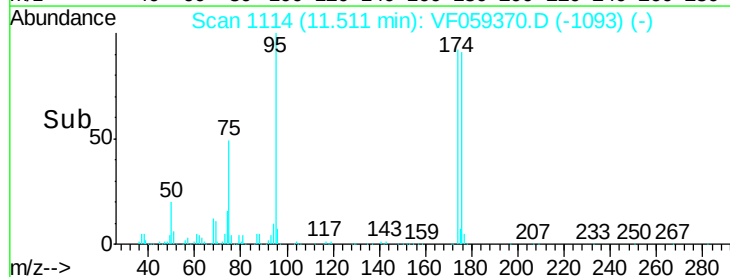
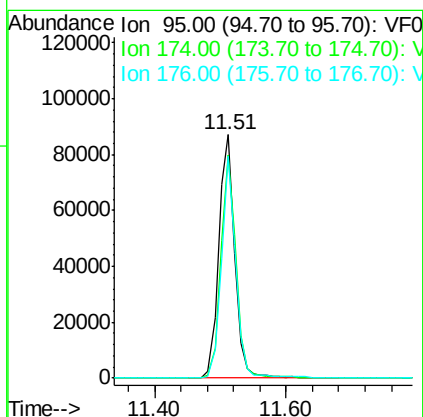
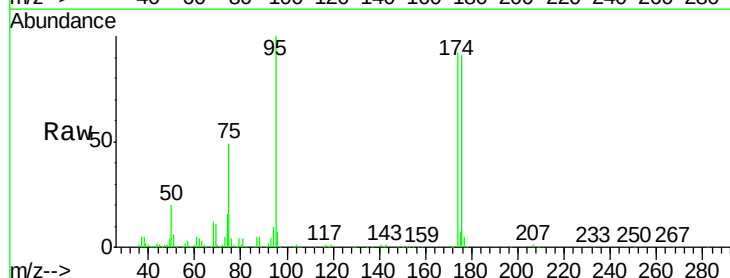
Instrument :
MSVOA_F
ClientSampled :
WS-SOIL

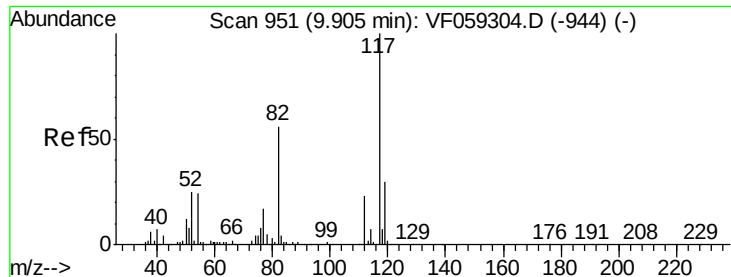
Tot Ion: 43 Resp: 1542
Ion Ratio Lower Upper
43 100
58 43.6 23.3 69.9



#62
4-Bromofluorobenzene
Concen: 41.333 ug/l
RT: 11.51 min Scan# 1114
Delta R.T. 0.01 min
Lab File: VF059370.D
Acq: 28 Jun 2018 19:43

Tgt Ion: 95 Resp: 147207
Ion Ratio Lower Upper
95 100
174 91.6 0.0 165.2
176 91.0 0.0 161.0

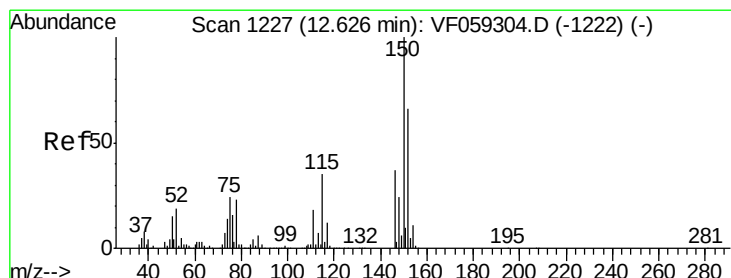
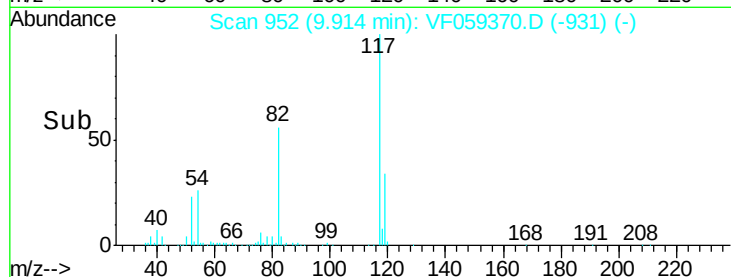
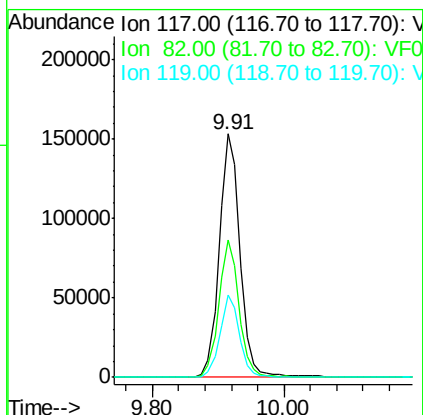
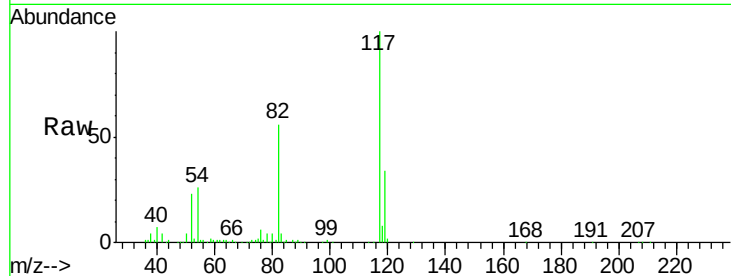




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.01 min
Lab File: VF059370.D
Acq: 28 Jun 2018 19:43

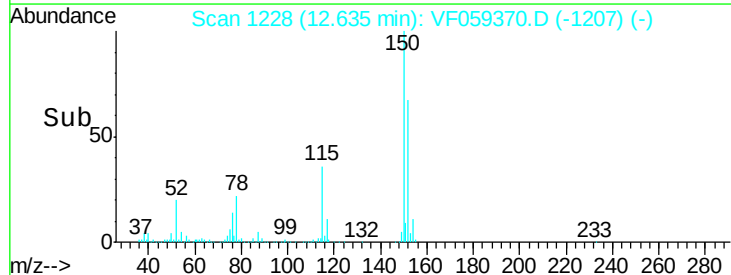
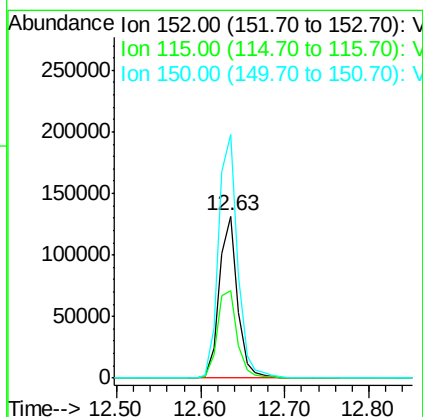
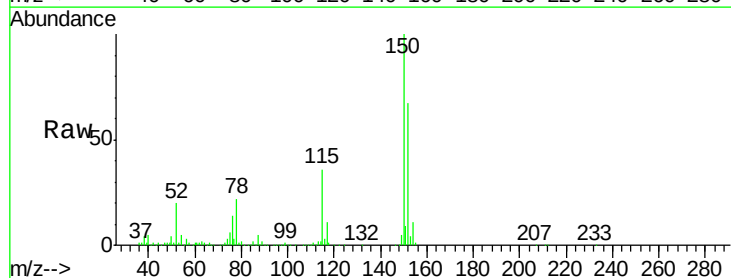
Instrument :
MSVOA_F
ClientSampleId :
WS-SOIL

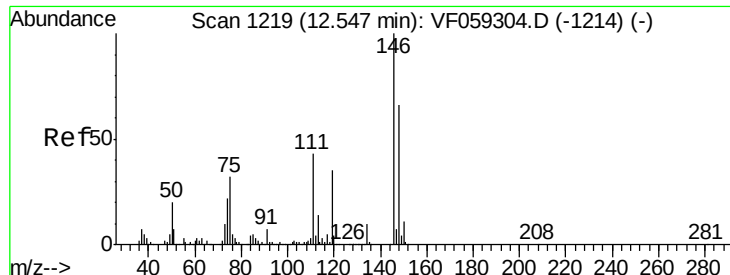
Tot Ion:117 Resp: 335985
Ion Ratio Lower Upper
117 100
82 56.4 44.6 66.8
119 33.7 24.1 36.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1228
Delta R.T. 0.01 min
Lab File: VF059370.D
Acq: 28 Jun 2018 19:43

Tgt Ion:152 Resp: 198662
Ion Ratio Lower Upper
152 100
115 53.5 27.1 81.3
150 150.0 0.0 305.2





#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.56 min Scan# 1220

Delta R.T. 0.01 min

Lab File: VF059370.D

Acq: 28 Jun 2018 19:43

Instrument :

MSVOA_F

ClientSampleId :

WS-SOIL

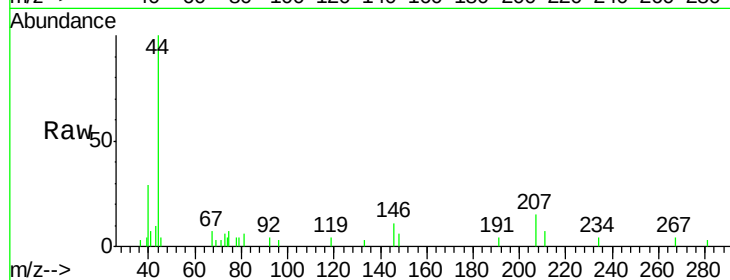
Tot Ion:146 Resp: 297

Ion Ratio Lower Upper

146 100

111 0.0 21.4 64.2#

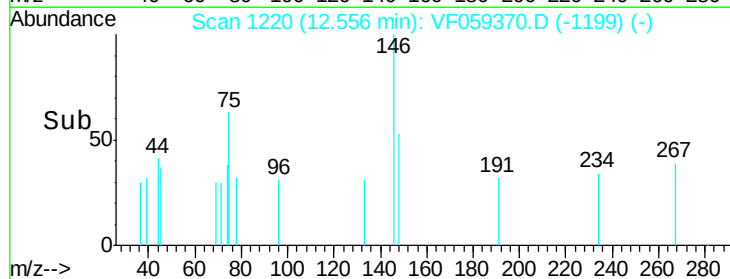
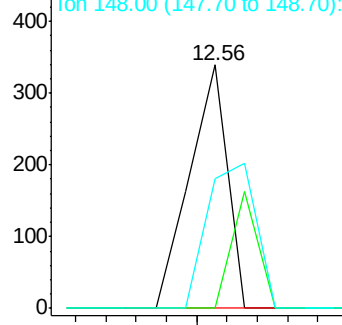
148 53.1 32.8 98.4



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



Time-->