

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\
 Data File : VF062188.D
 Acq On : 16 Apr 2019 21:05
 Operator : FY/SY
 Sample : K2435-02
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BWM-S2-SOIL-PILE

Quant Time: Apr 17 08:09:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F041619S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 07:56:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	141206	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	216680	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	171286	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	84490	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	66406	52.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.46%	
35) Dibromofluoromethane	4.31	113	90160	52.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.50%	
50) Toluene-d8	7.71	98	177965	35.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.26%	
62) 4-Bromofluorobenzene	11.50	95	82462	41.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.62%	

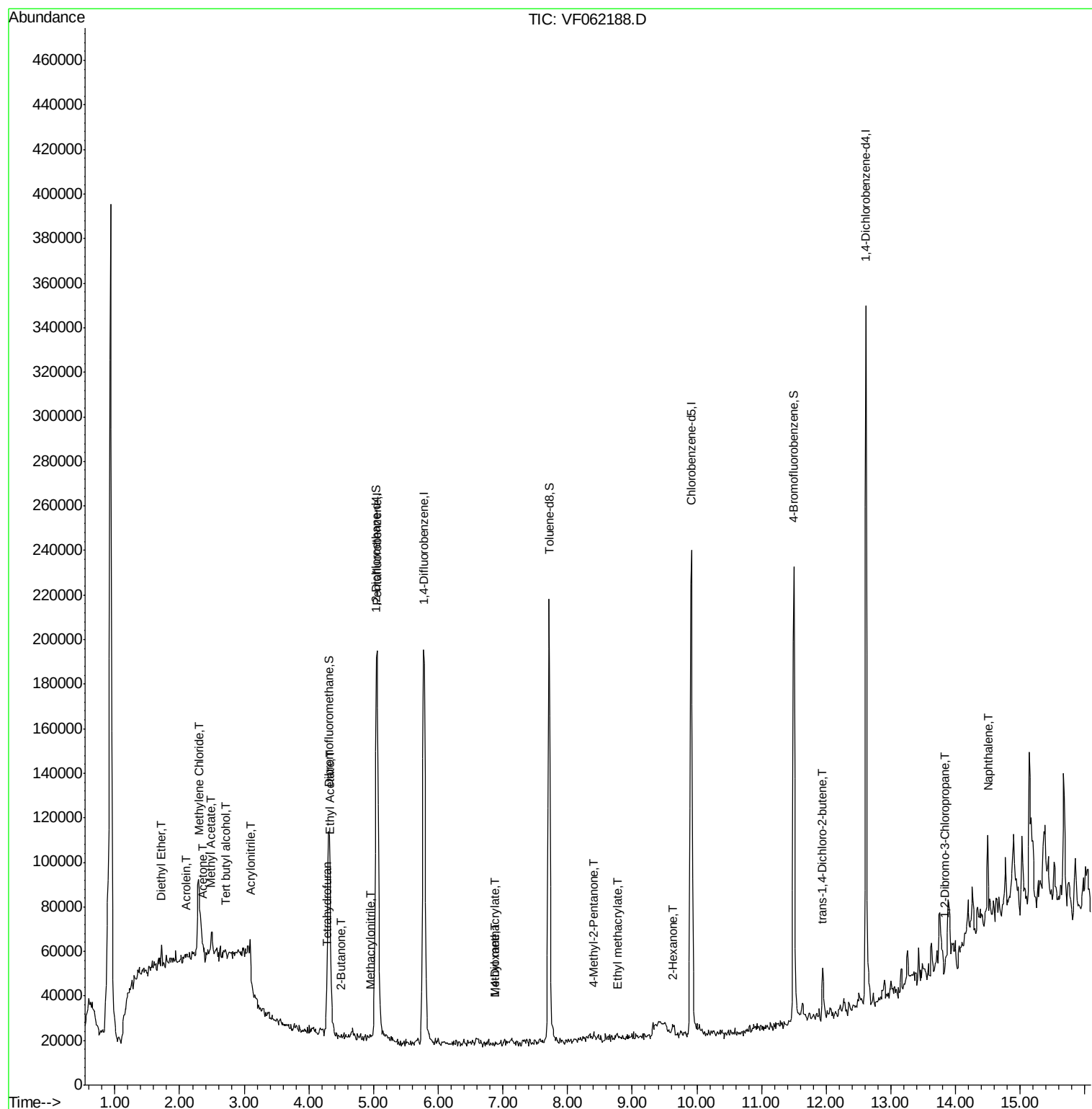
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.72	74	1303	2.767	ug/l #	16
11) Tert butyl alcohol	2.70	59	928	13.166	ug/l #	1
13) Acrolein	2.10	56	979	17.633	ug/l #	1
15) Acrylonitrile	3.10	53	1104	4.215	ug/l #	44
16) Acetone	2.36	43	3805	13.272	ug/l #	72
18) Methyl Acetate	2.49	43	6825	6.865	ug/l #	71
20) Methylene Chloride	2.29	84	25884	14.941	ug/l	87
25) 2-Butanone	4.51	43	687	1.116	ug/l #	57
29) Tetrahydrofuran	4.26	42	2390	8.725	ug/l #	50
37) Ethyl Acetate	4.33	43	2011	1.813	ug/l #	26
41) Methacrylonitrile	4.94	41	1492	2.238	ug/l #	75
48) Methyl methacrylate	6.88	41	893	1.064	ug/l #	69
49) 1,4-Dioxane	6.88	88	69	10.552	ug/l #	1
51) 4-Methyl-2-Pentanone	8.40	43	4502	4.558	ug/l	93
56) Ethyl methacrylate	8.77	69	1302	1.023	ug/l #	1
59) 2-Hexanone	9.63	43	3869	6.164	ug/l #	50
74) N-amyl acetate	11.45	43	2389	Below Cal	#	81
81) trans-1,4-Dichloro-2-buten	11.95	75	669	1.521	ug/l #	67
89) n-Butylbenzene	12.90	91	1773	Below Cal		88
92) 1,2-Dibromo-3-Chloropropan	13.83	75	302	1.293	ug/l	73
95) Naphthalene	14.50	128	6183	1.773	ug/l #	65

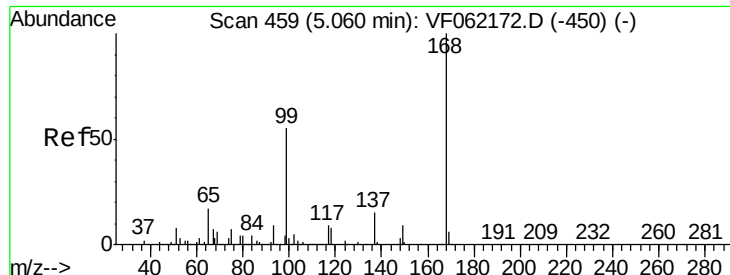
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF041619\
Data File : VF062188.D
Acq On : 16 Apr 2019 21:05
Operator : FY/SY
Sample : K2435-02
Misc : 5.00µ/5mL/MSVOA F/SOIL
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
BWM-S2-SOIL-PILE

Quant Time: Apr 17 08:09:59 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F041619S.M
Quant Title : SW846 8260
QLast Update : Wed Apr 17 07:56:48 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062188.D

Acq: 16 Apr 2019 21:05

Instrument :

MSVOA_F

ClientSampleId :

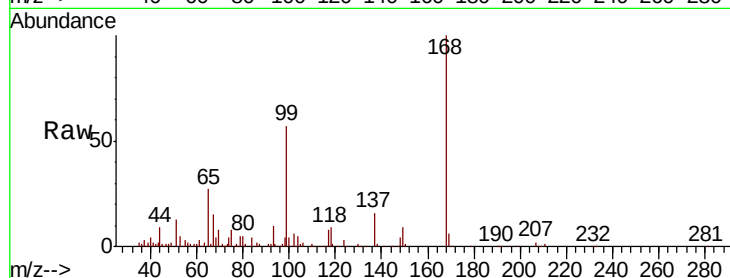
BWM-S2-SOIL-PILE

Tot Ion:168 Resp: 141206

Ion Ratio Lower Upper

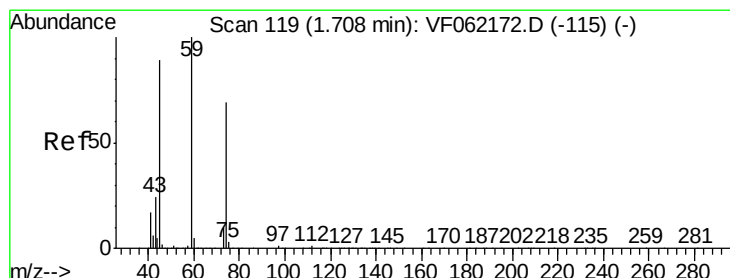
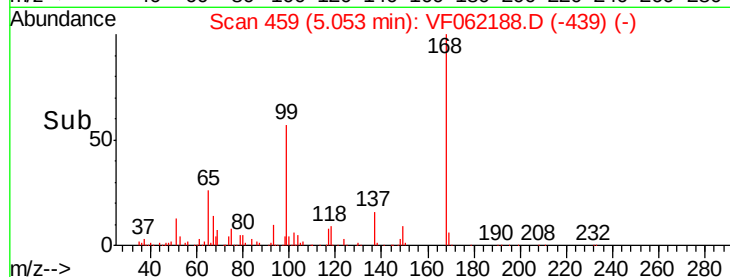
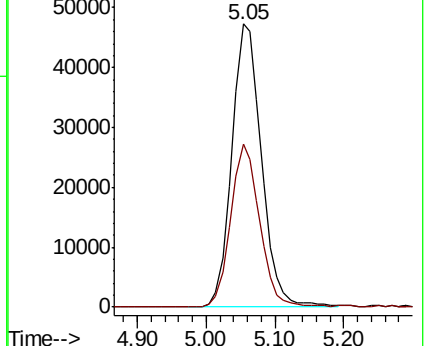
168 100

99 57.4 44.2 66.4



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#8

Diethyl Ether

Concen: 2.767 ug/l

RT: 1.72 min Scan# 121

Delta R.T. 0.01 min

Lab File: VF062188.D

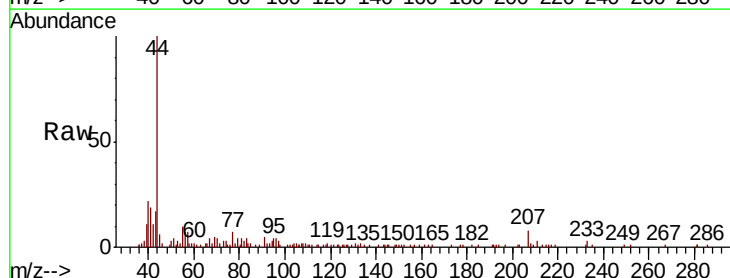
Acq: 16 Apr 2019 21:05

Tgt Ion: 74 Resp: 1303

Ion Ratio Lower Upper

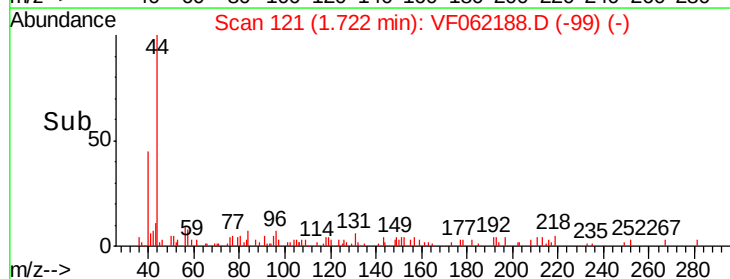
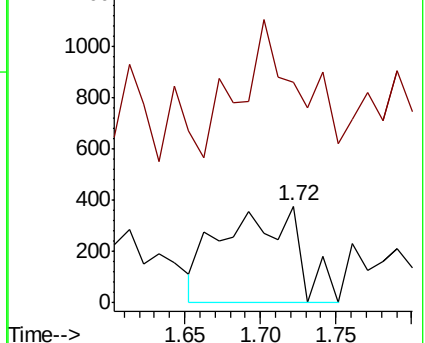
74 100

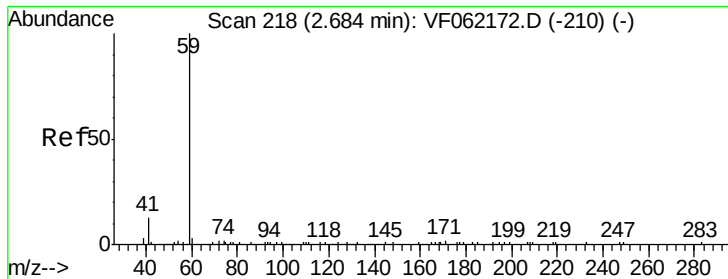
45 226.7 64.7 194.1#



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



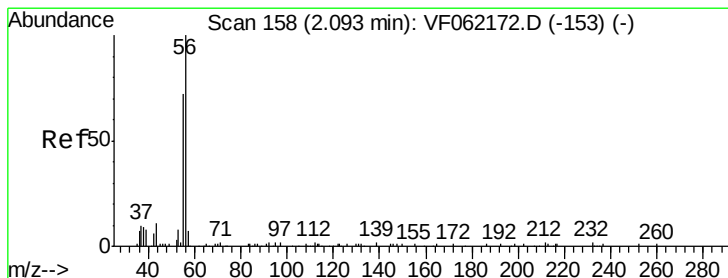
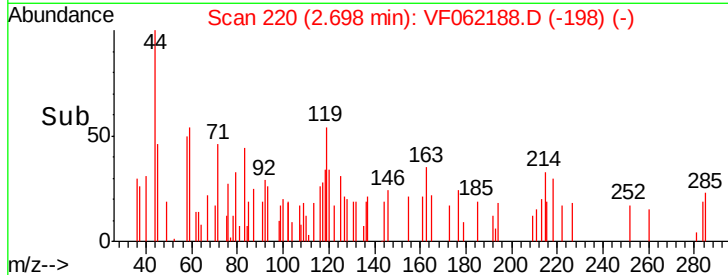
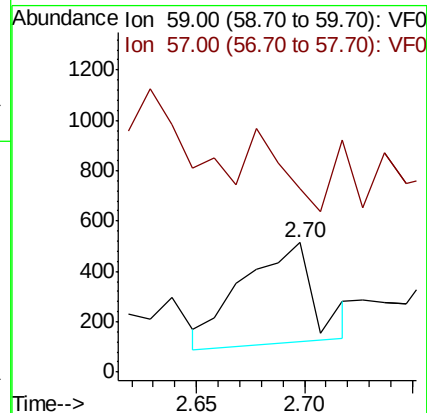
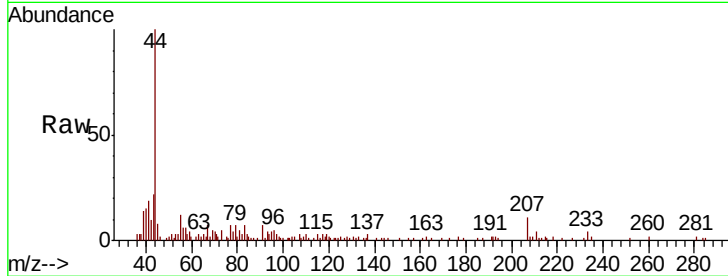


#11

Tert butyl alcohol
Concen: 13.166 ug/l
RT: 2.70 min Scan# 220
Delta R.T. 0.01 min
Lab File: VF062188.D
Acq: 16 Apr 2019 21:05

Instrument :
MSVOA_F
ClientSampleId :
BWM-S2-SOIL-PILE

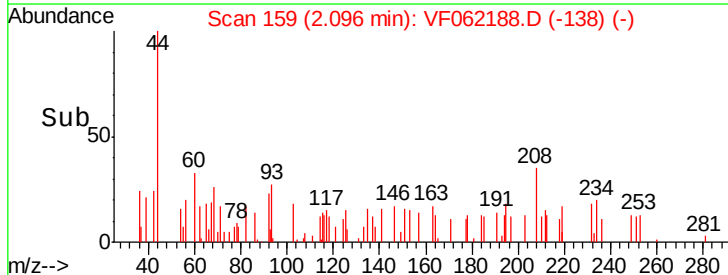
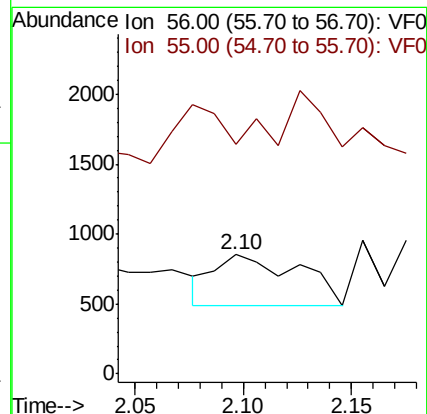
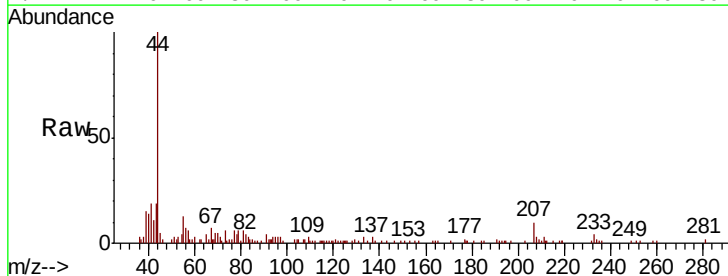
Tot Ion: 59 Resp: 928
Ion Ratio Lower Upper
59 100
57 141.2 14.2 21.4#

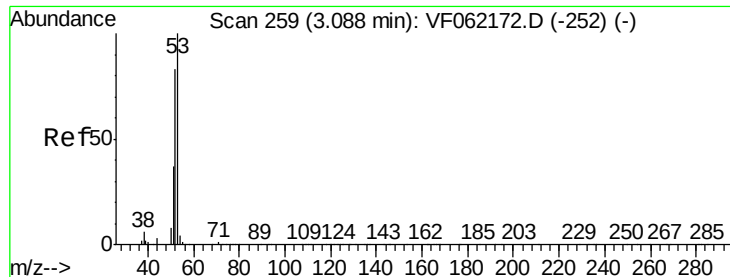


#13

Acrolein
Concen: 17.633 ug/l
RT: 2.10 min Scan# 159
Delta R.T. 0.00 min
Lab File: VF062188.D
Acq: 16 Apr 2019 21:05

Tgt Ion: 56 Resp: 979
Ion Ratio Lower Upper
56 100
55 192.4 62.9 94.3#





#15

Acrylonitrile

Concen: 4.215 ug/l

RT: 3.10 min Scan# 261

Delta R.T. 0.01 min

Lab File: VF062188.D

Acq: 16 Apr 2019 21:05

Instrument :
MSVOA_F
ClientSampleId :
BWM-S2-SOIL-PILE

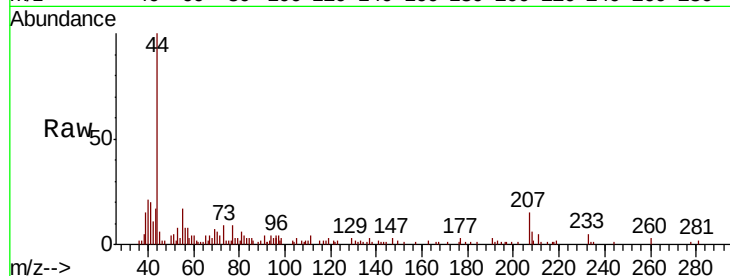
Tot Ion: 53 Resp: 1104

Ion Ratio Lower Upper

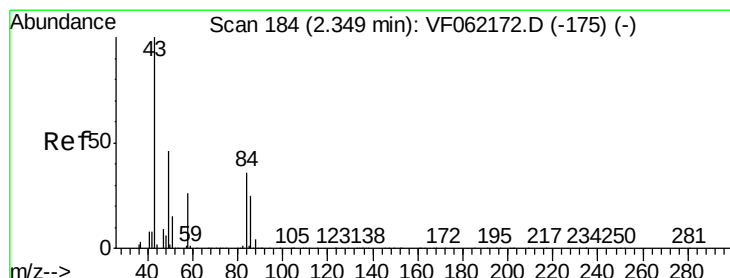
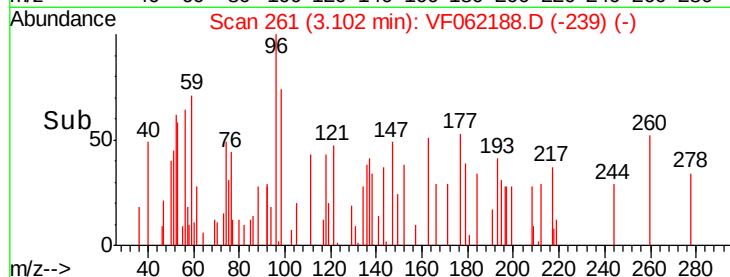
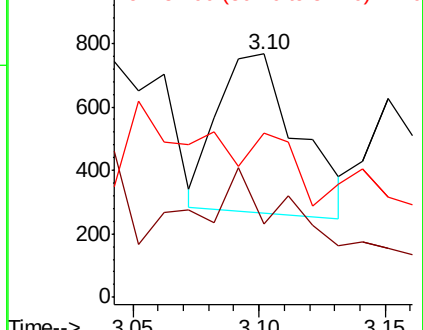
53 100

52 30.2 66.6 99.8#

51 67.4 30.1 45.1#



Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 13.272 ug/l

RT: 2.36 min Scan# 186

Delta R.T. 0.01 min

Lab File: VF062188.D

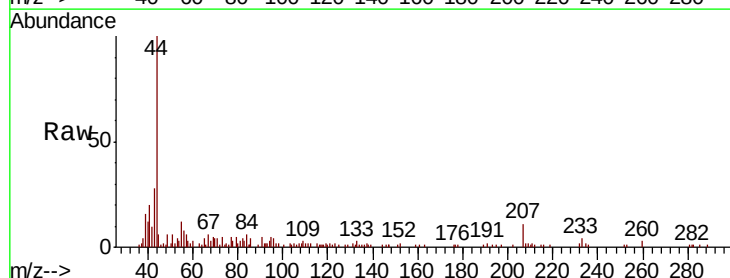
Acq: 16 Apr 2019 21:05

Tgt Ion: 43 Resp: 3805

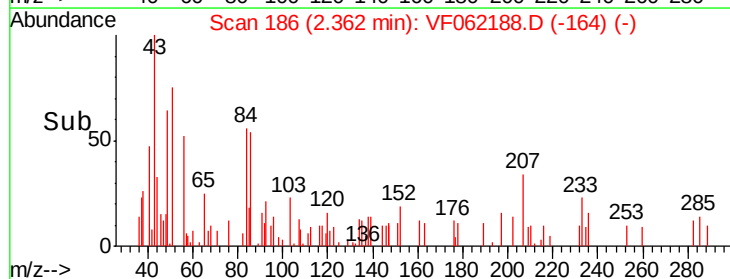
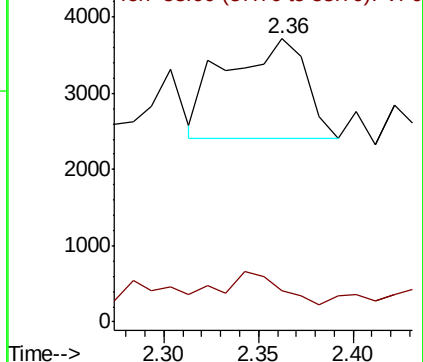
Ion Ratio Lower Upper

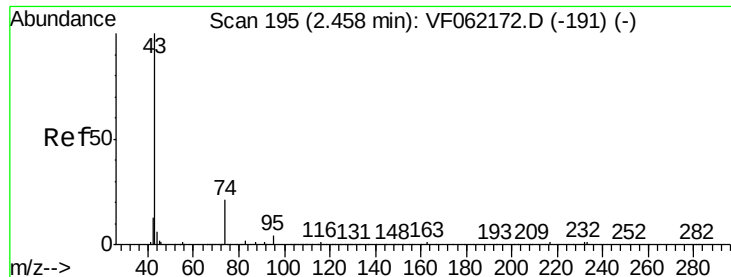
43 100

58 11.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

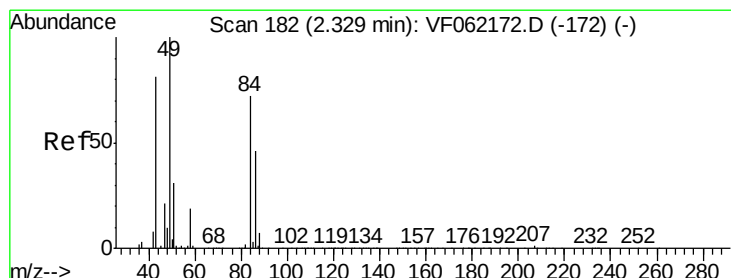
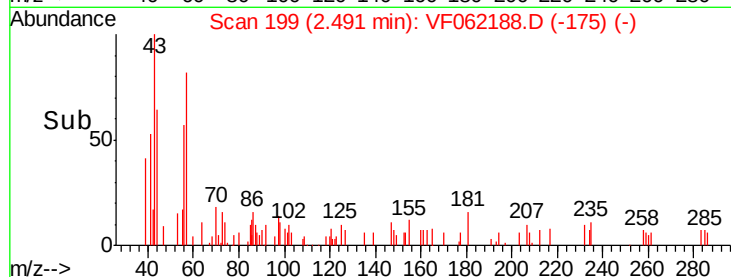
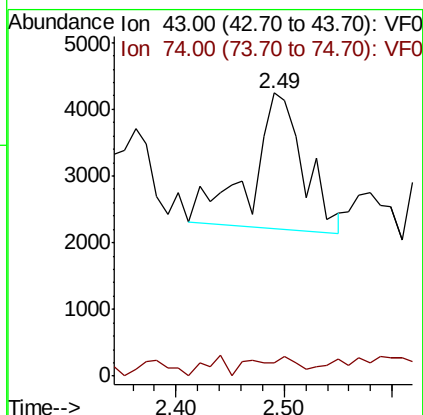
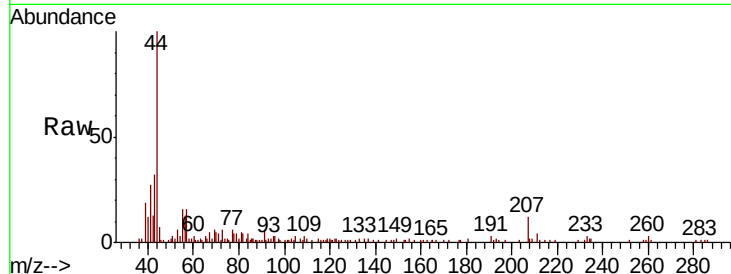




#18
Methvl Acetate
Concen: 6.865 ug/l
RT: 2.49 min Scan# 199
Delta R.T. 0.03 min
Lab File: VF062188.D
Acq: 16 Apr 2019 21:05

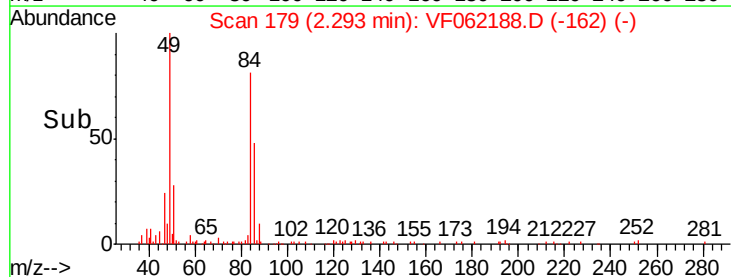
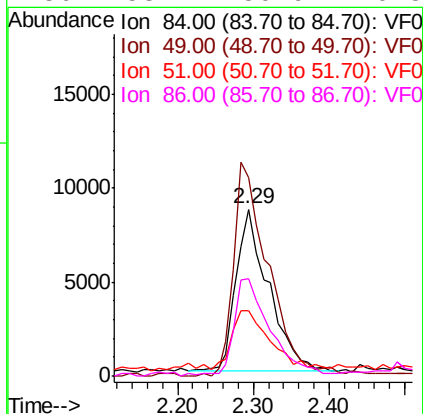
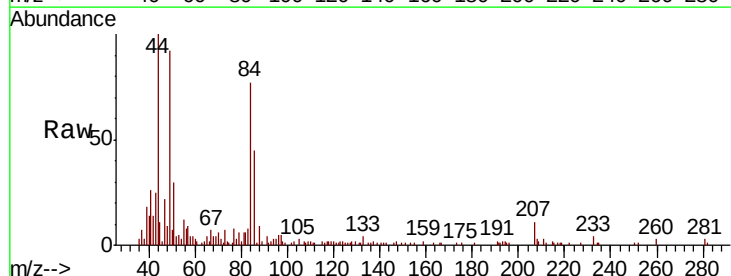
Instrument :
MSVOA_F
ClientSampleId :
BWM-S2-SOIL-PILE

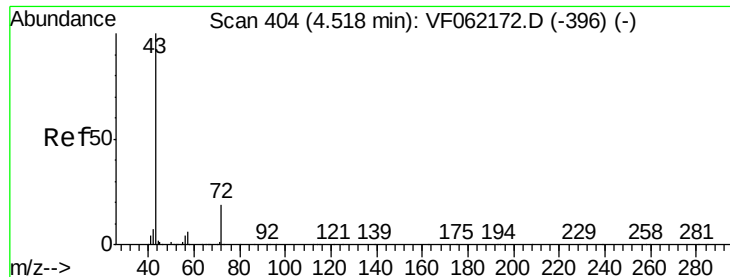
Tot Ion: 43 Resp: 6825
Ion Ratio Lower Upper
43 100
74 4.8 14.2 21.4#



#20
Methylene Chloride
Concen: 14.941 ug/l
RT: 2.29 min Scan# 179
Delta R.T. -0.04 min
Lab File: VF062188.D
Acq: 16 Apr 2019 21:05

Tgt Ion: 84 Resp: 25884
Ion Ratio Lower Upper
84 100
49 118.9 111.5 167.3
51 39.1 34.9 52.3
86 58.2 50.9 76.3





#25

2-Butanone

Concen: 1.116 ug/l

RT: 4.51 min Scan# 404

Delta R.T. -0.01 min

Lab File: VF062188.D

Acq: 16 Apr 2019 21:05

Instrument :

MSVOA_F

ClientSampleId :

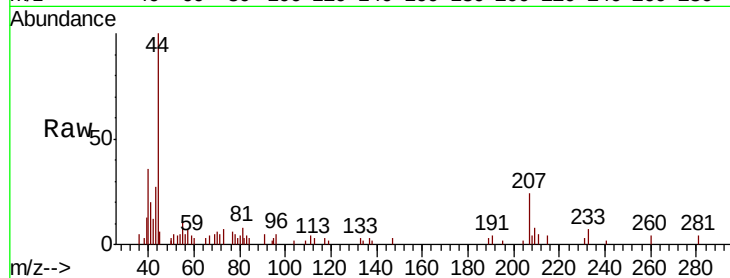
BWM-S2-SOIL-PILE

Tot Ion: 43 Resp: 687

Ion Ratio Lower Upper

43 100

72 0.0 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

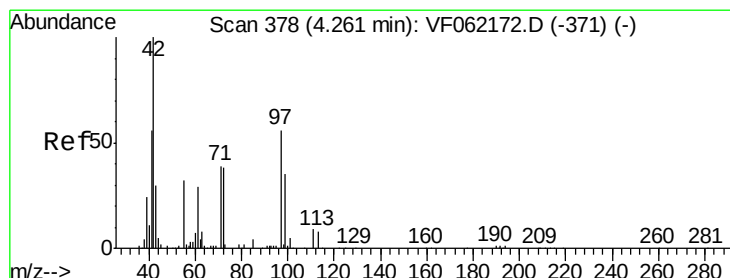
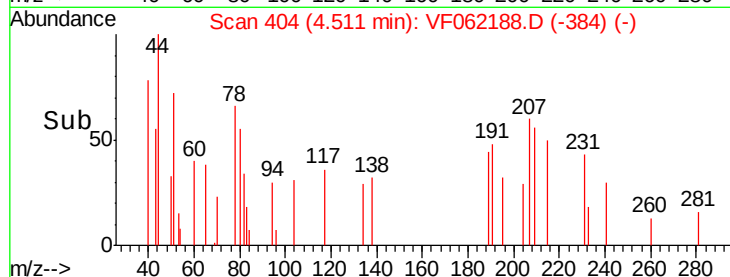
1500

1000

500

0

Time-->



#29

Tetrahydrofuran

Concen: 8.725 ug/l

RT: 4.26 min Scan# 379

Delta R.T. 0.00 min

Lab File: VF062188.D

Acq: 16 Apr 2019 21:05

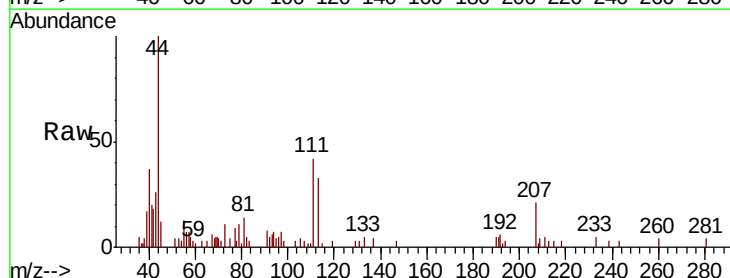
Tgt Ion: 42 Resp: 2390

Ion Ratio Lower Upper

42 100

72 14.9 28.7 43.1#

71 0.0 30.8 46.2#



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

1000

800

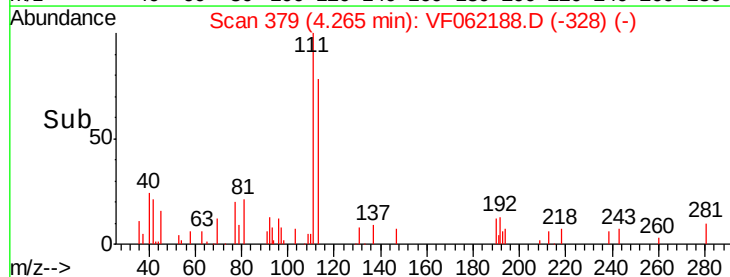
600

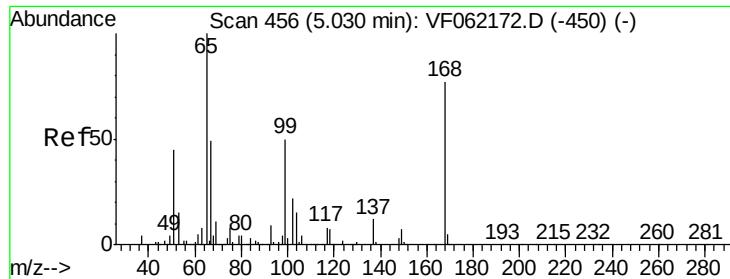
400

200

0

Time-->

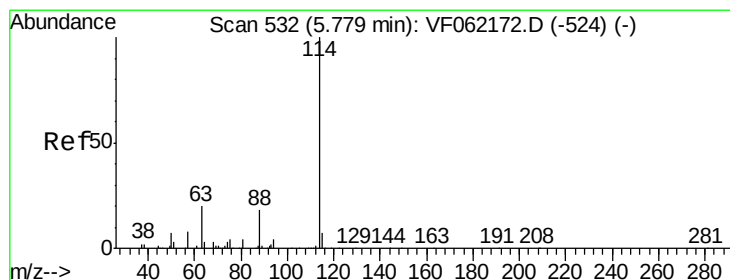
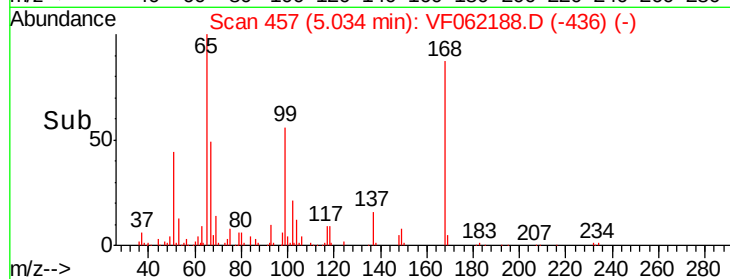
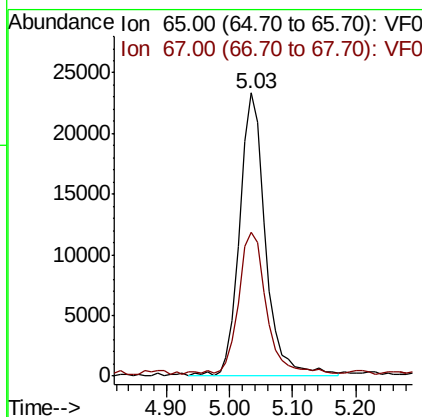
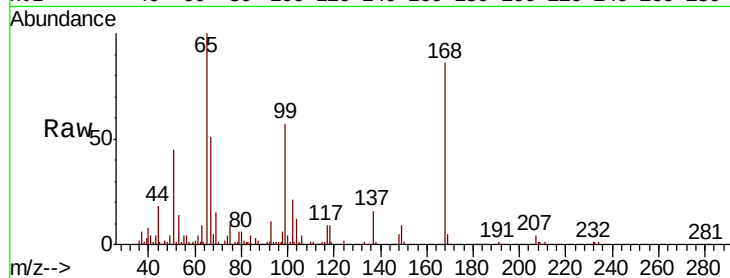




#33
 1,2-Dichloroethane-d4
 Concen: 52.225 ug/l
 RT: 5.03 min Scan# 457
 Delta R.T. 0.00 min
 Lab File: VF062188.D
 Acq: 16 Apr 2019 21:05

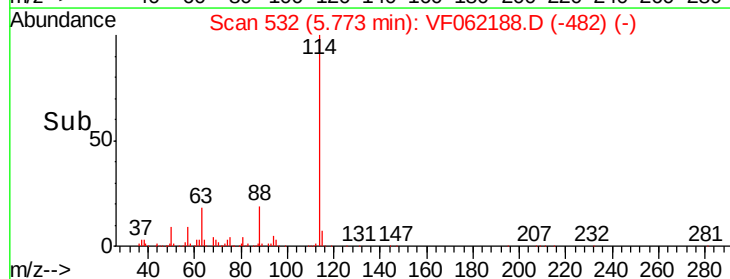
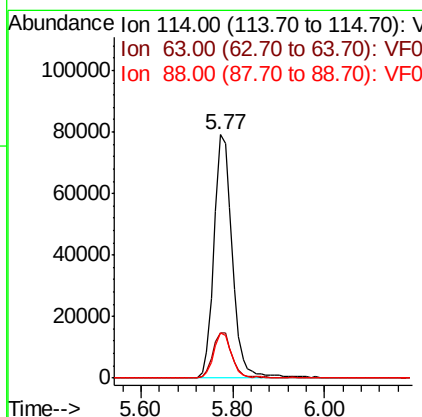
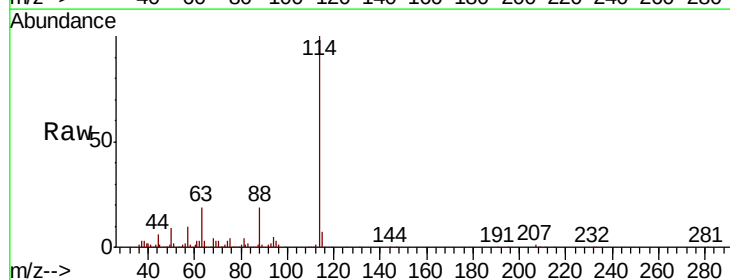
Instrument :
 MSVOA_F
 ClientSampleId :
 BWM-S2-SOIL-PILE

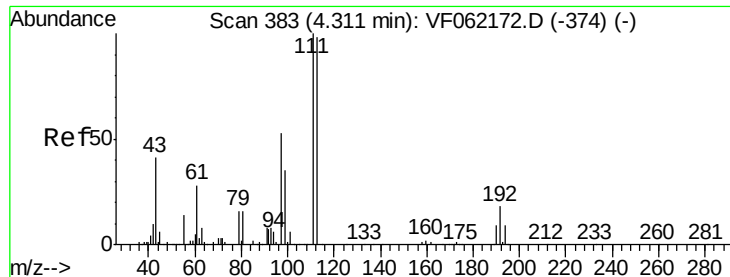
Tot Ion: 65 Resp: 66406
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 532
 Delta R.T. -0.01 min
 Lab File: VF062188.D
 Acq: 16 Apr 2019 21:05

Tgt Ion: 114 Resp: 216680
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 40.0
 88 18.7 0.0 36.6





#35

Dibromofluoromethane

Concen: 52.749 ug/l

RT: 4.31 min Scan# 384

Delta R.T. 0.00 min

Lab File: VF062188.D

Acq: 16 Apr 2019 21:05

Instrument :

MSVOA_F

ClientSampleId :

BWM-S2-SOIL-PILE

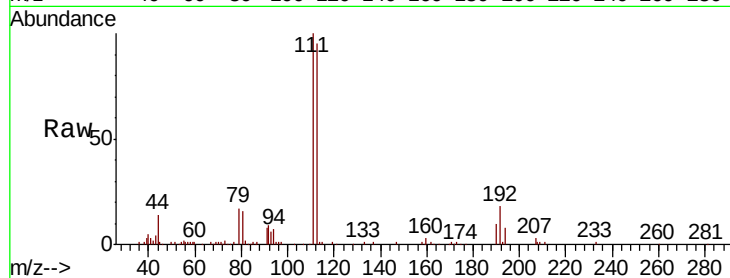
Tot Ion:113 Resp: 90160

Ion Ratio Lower Upper

113 100

111 105.4 81.6 122.4

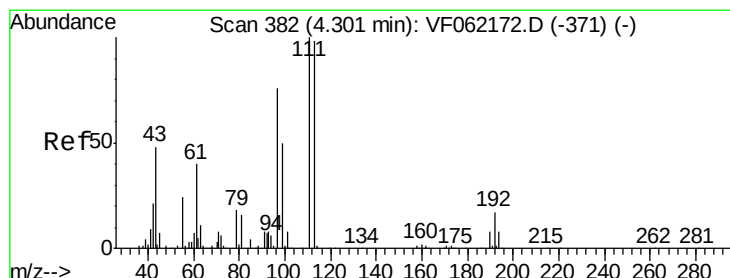
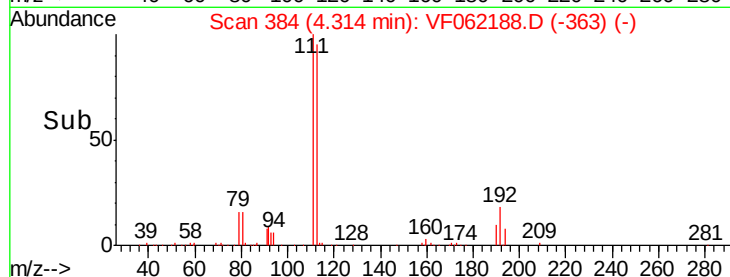
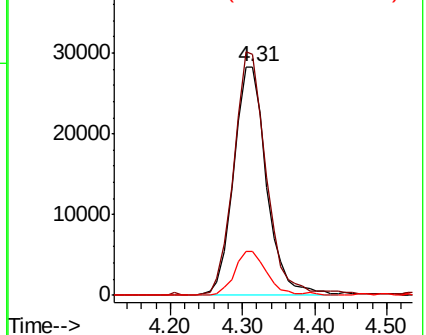
192 19.4 15.0 22.4



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#37

Ethyl Acetate

Concen: 1.813 ug/l

RT: 4.33 min Scan# 386

Delta R.T. 0.03 min

Lab File: VF062188.D

Acq: 16 Apr 2019 21:05

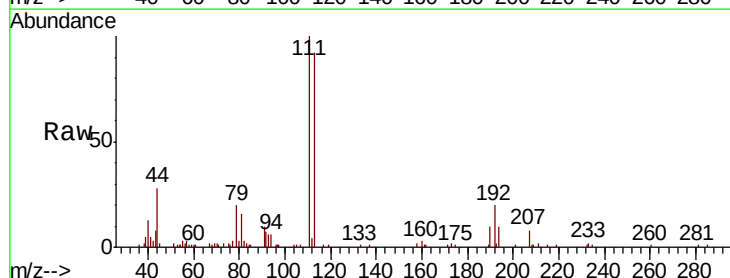
Tgt Ion: 43 Resp: 2011

Ion Ratio Lower Upper

43 100

61 10.9 64.9 97.3#

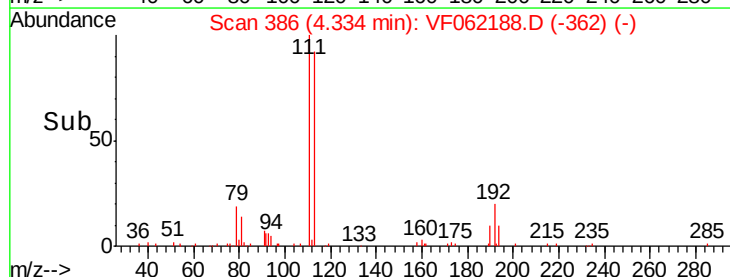
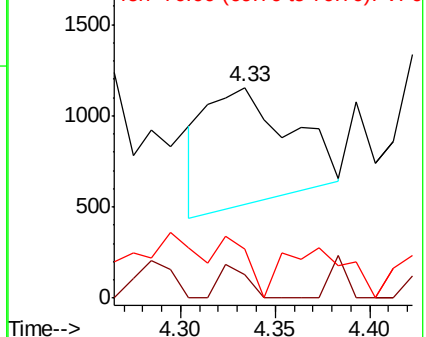
70 23.2 7.8 11.8#

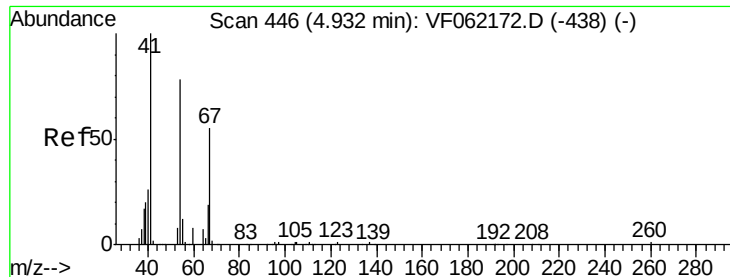


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

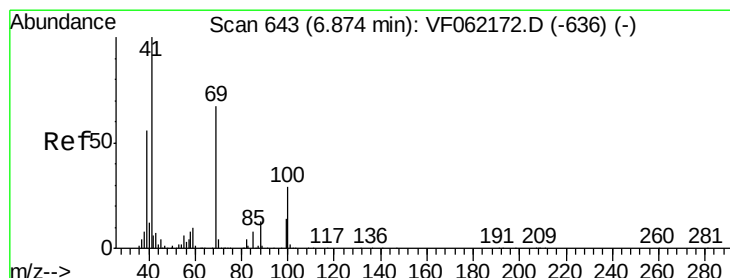
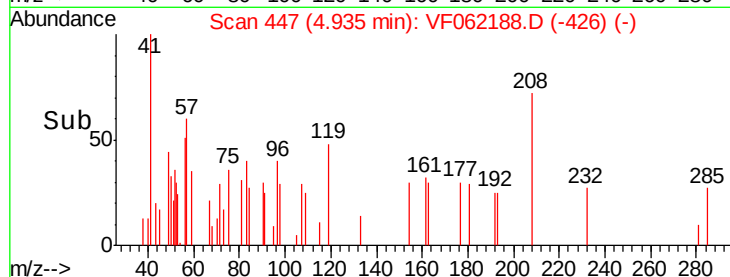
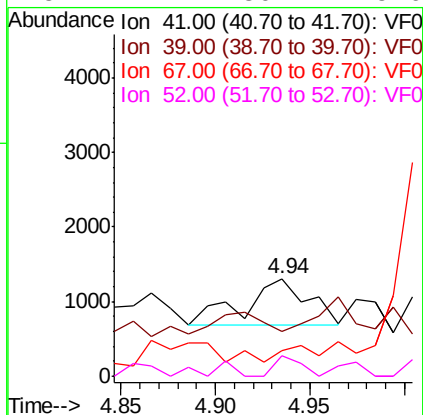
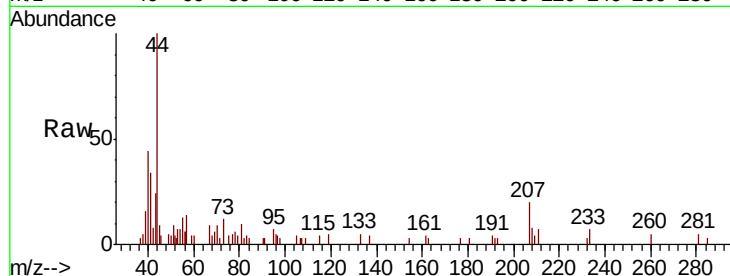




#41
Methacrylonitrile
Concen: 2.238 ug/l
RT: 4.94 min Scan# 447
Delta R.T. 0.00 min
Lab File: VF062188.D
Acq: 16 Apr 2019 21:05

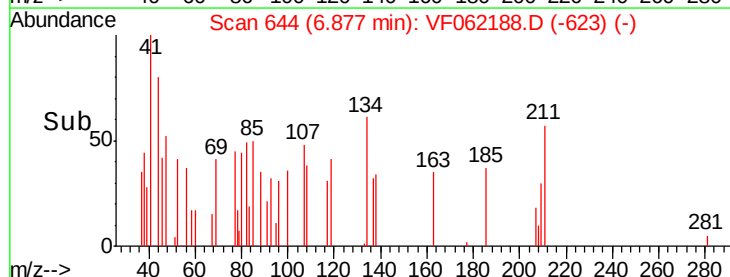
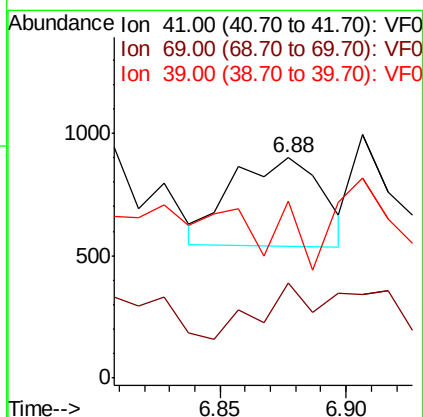
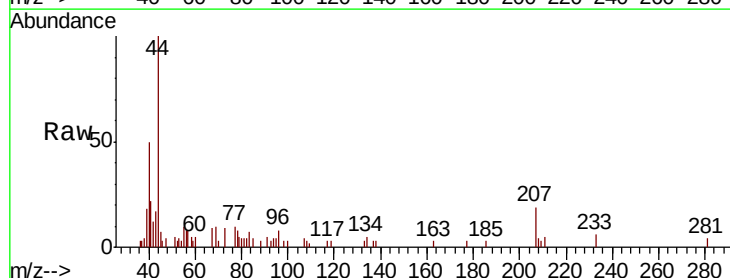
Instrument :
MSVOA_F
ClientSampleId :
BWM-S2-SOIL-PILE

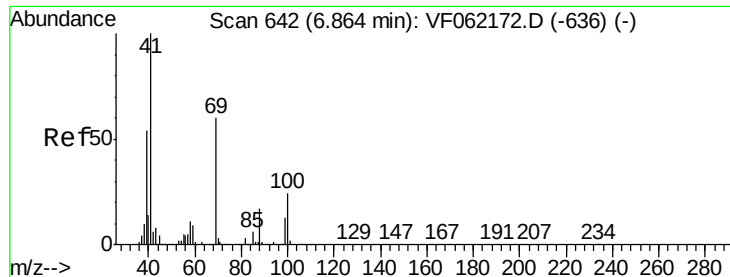
Tot Ion:	41	Resp:	1492
Ion	Ratio	Lower	Upper
41	100		
39	46.3	43.5	65.3
67	26.5	42.9	64.3#
52	21.1	30.4	45.6#



#48
Methyl methacrylate
Concen: 1.064 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.00 min
Lab File: VF062188.D
Acq: 16 Apr 2019 21:05

Tgt Ion:	41	Resp:	893
Ion	Ratio	Lower	Upper
41	100		
69	43.0	52.8	79.2#
39	80.6	45.0	67.4#





#49

1,4-Dioxane

Concen: 10.552 ug/l

RT: 6.88 min Scan# 644

Delta R.T. 0.01 min

Lab File: VF062188.D

Acq: 16 Apr 2019 21:05

Instrument :

MSVOA_F

ClientSampleId :

BWM-S2-SOIL-PILE

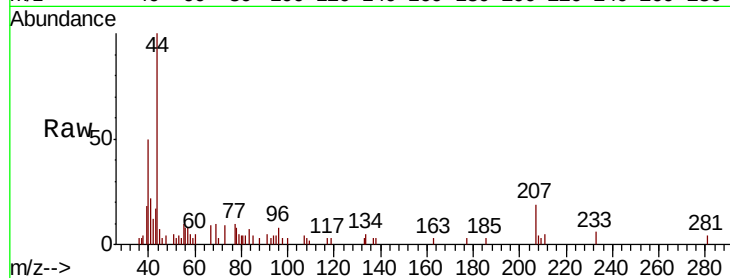
Tot Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 587.1 49.5 74.3#

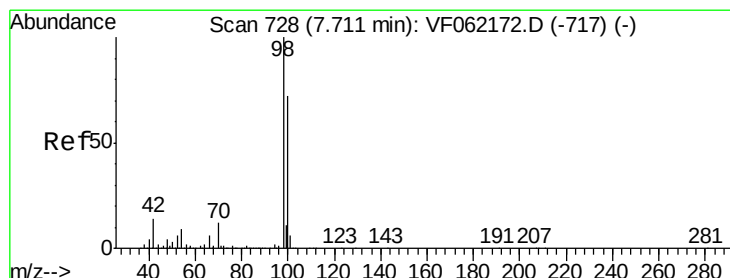
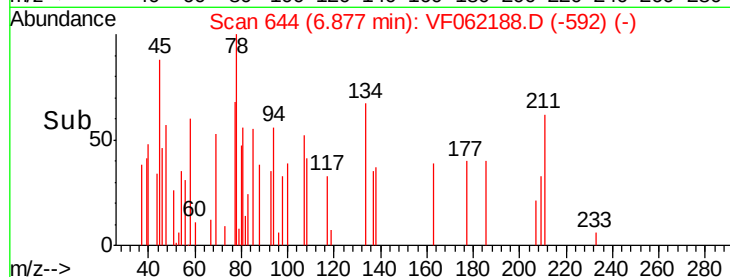
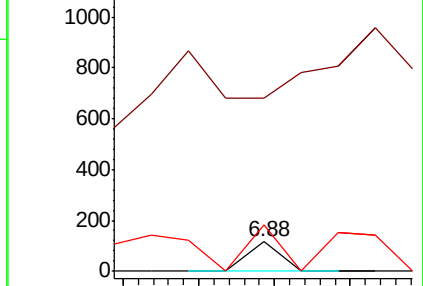
58 157.8 52.6 79.0#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 35.630 ug/l

RT: 7.71 min Scan# 729

Delta R.T. 0.00 min

Lab File: VF062188.D

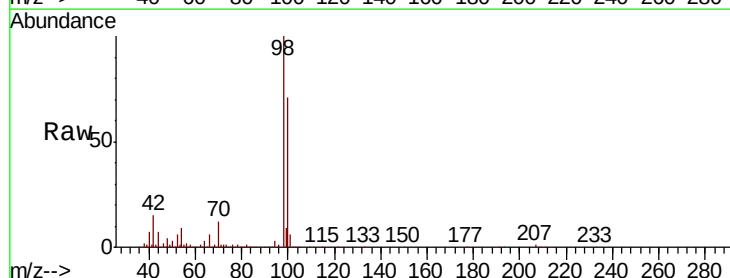
Acq: 16 Apr 2019 21:05

Tgt Ion: 98 Resp: 177965

Ion Ratio Lower Upper

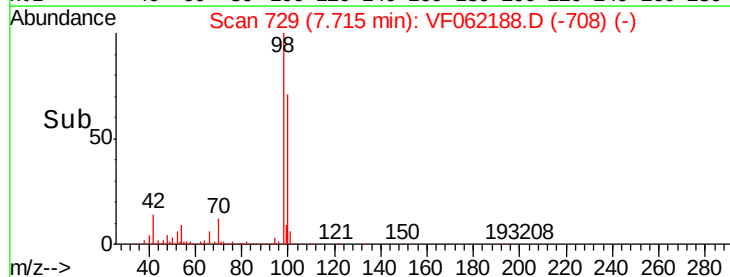
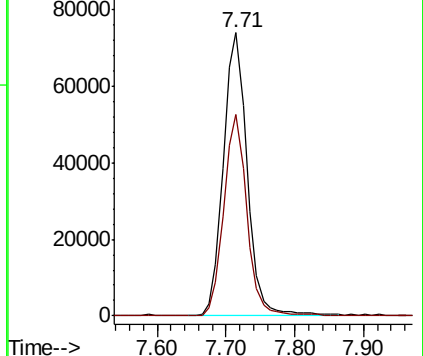
98 100

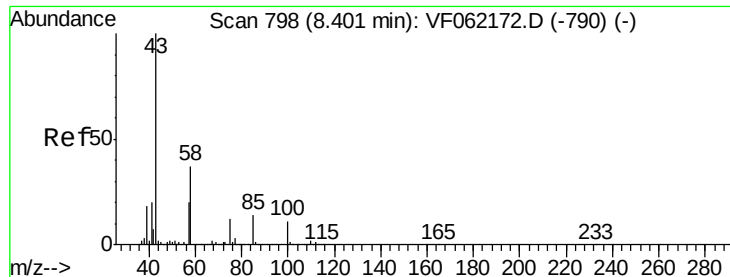
100 71.2 57.4 86.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 4.558 ug/l

RT: 8.40 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF062188.D

Acq: 16 Apr 2019 21:05

Instrument :

MSVOA_F

ClientSampleId :

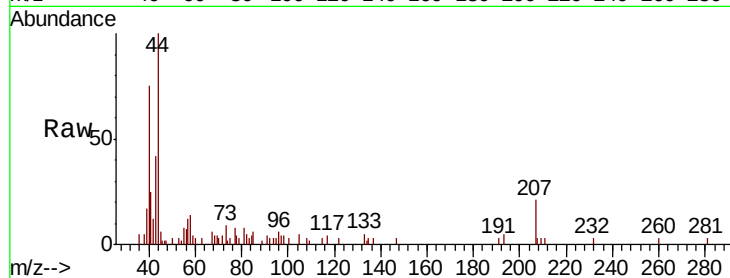
BWM-S2-SOIL-PILE

Tot Ion: 43 Resp: 4502

Ion Ratio Lower Upper

43 100

58 32.7 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2000

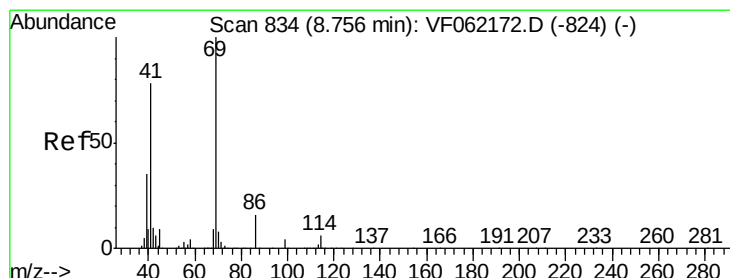
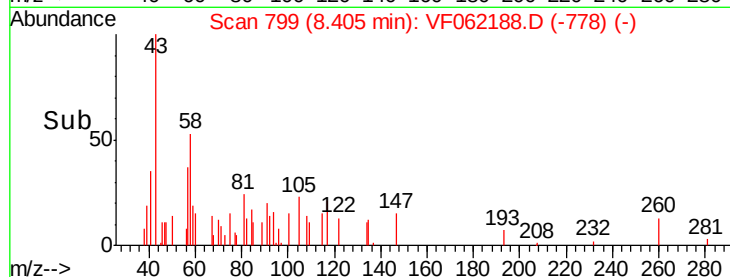
1500

1000

500

0

Time--> 8.30 8.35 8.40 8.45 8.50



#56

Ethyl methacrylate

Concen: 1.023 ug/l

RT: 8.77 min Scan# 836

Delta R.T. 0.01 min

Lab File: VF062188.D

Acq: 16 Apr 2019 21:05

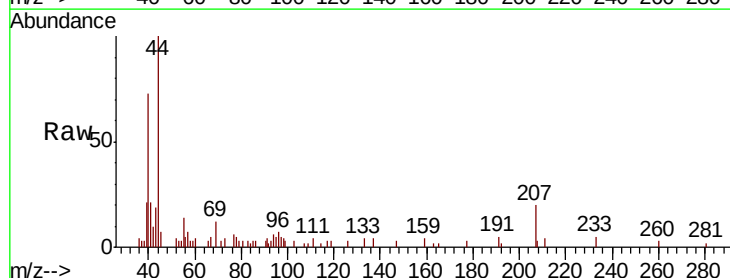
Tgt Ion: 69 Resp: 1302

Ion Ratio Lower Upper

69 100

41 168.8 63.4 95.0#

39 174.0 29.0 43.6#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

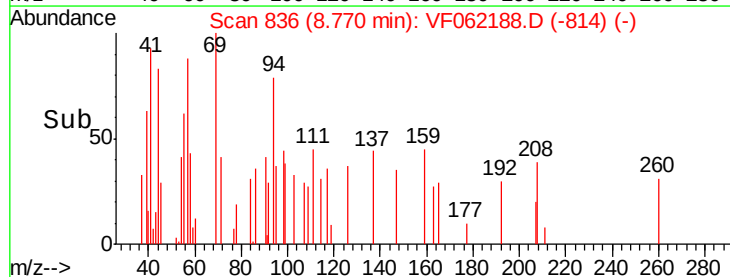
1500

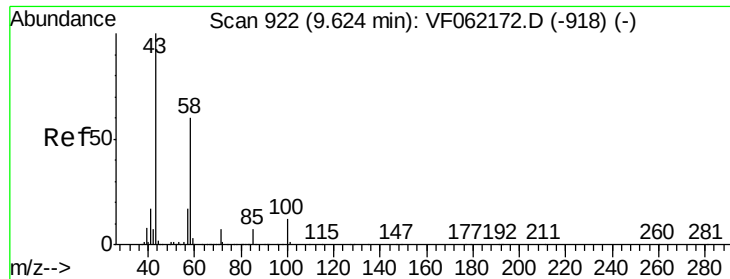
1000

500

0

Time--> 8.65 8.70 8.75 8.80 8.85

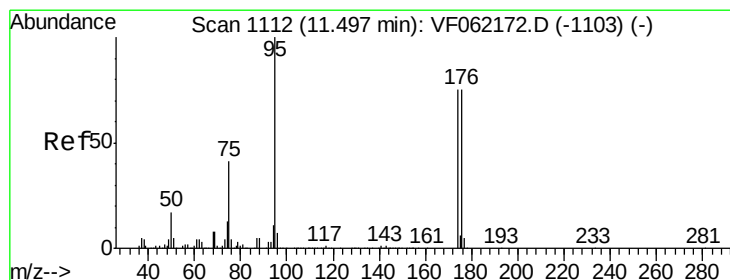
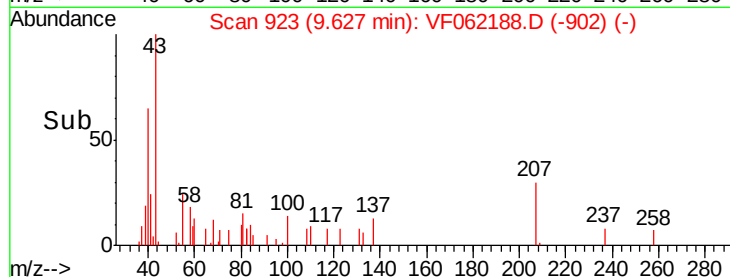
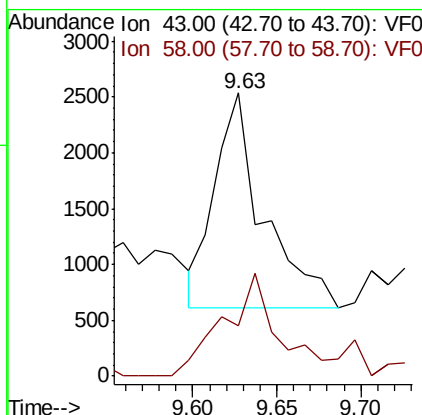
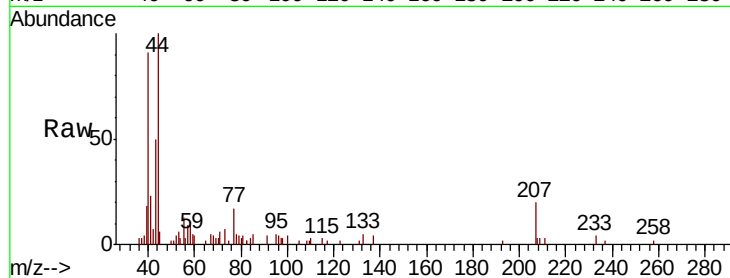




#59
2-Hexanone
Concen: 6.164 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF062188.D
Acq: 16 Apr 2019 21:05

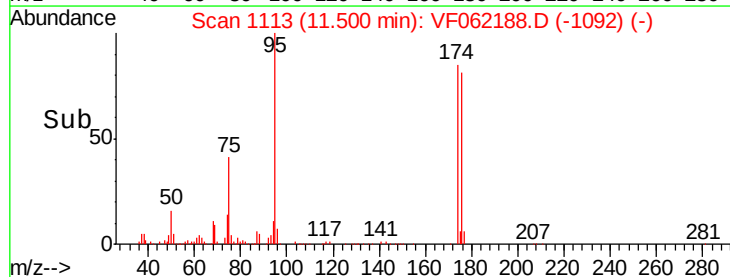
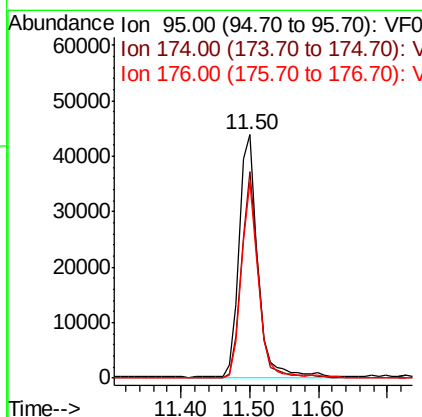
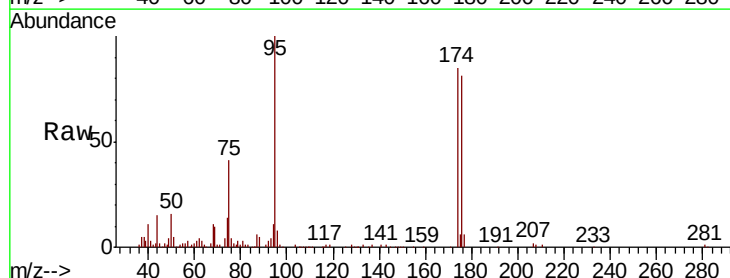
Instrument :
MSVOA_F
ClientSampleId :
BWM-S2-SOIL-PILE

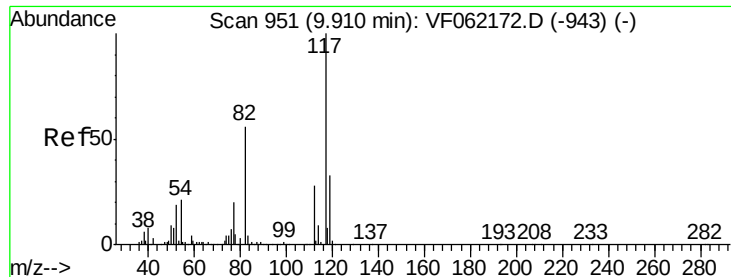
Tot Ion: 43 Resp: 3869
Ion Ratio Lower Upper
43 100
58 17.7 26.8 80.4#



#62
4-Bromofluorobenzene
Concen: 41.806 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. 0.00 min
Lab File: VF062188.D
Acq: 16 Apr 2019 21:05

Tgt Ion: 95 Resp: 82462
Ion Ratio Lower Upper
95 100
174 84.7 0.0 150.2
176 80.6 0.0 149.4

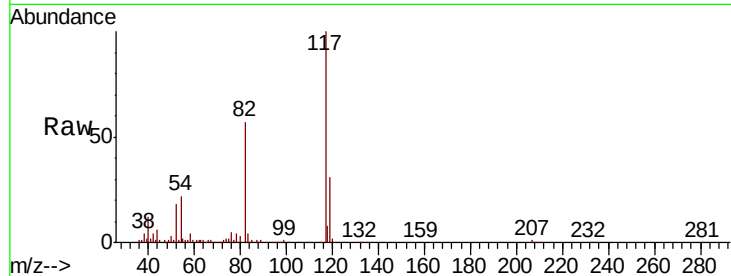




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF062188.D
Acq: 16 Apr 2019 21:05

Instrument :
MSVOA_F
ClientSampleId :
BWM-S2-SOIL-PILE

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.3	45.2	67.8
119	31.2	26.6	39.8

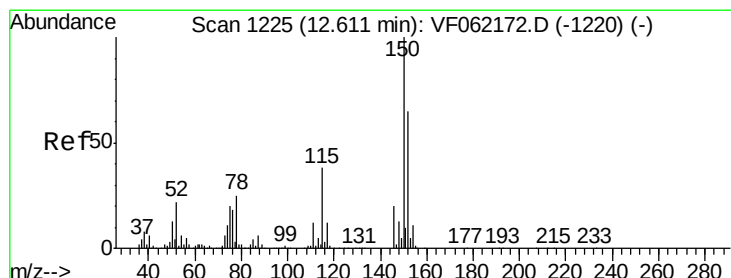
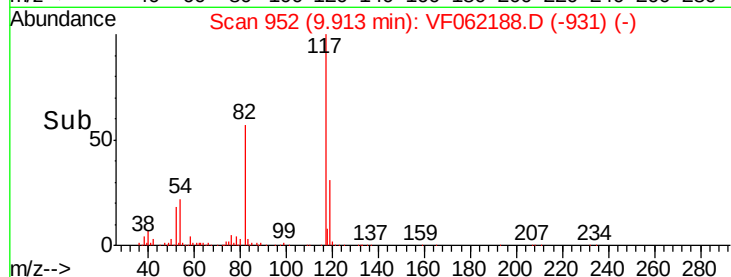
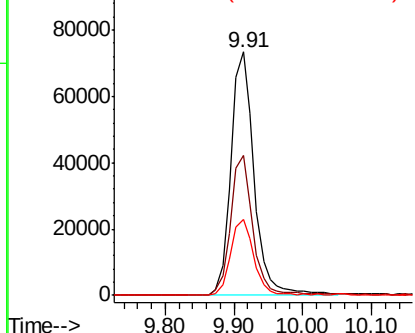


Abundance

Ion 117.00 (116.70 to 117.70): V

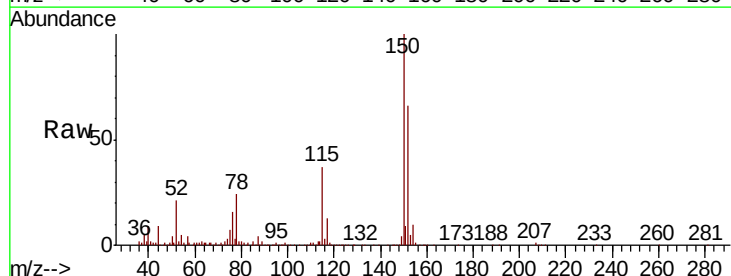
Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VF062188.D
Acq: 16 Apr 2019 21:05

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.9	29.0	87.1
150	150.9	0.0	309.2

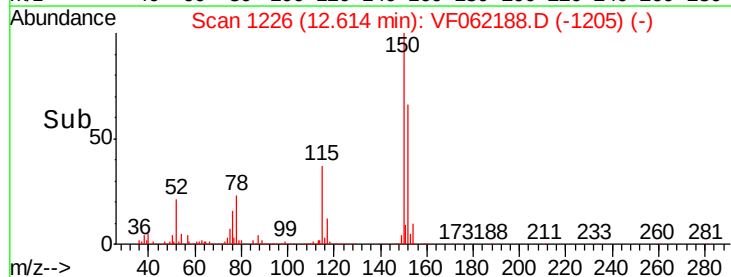
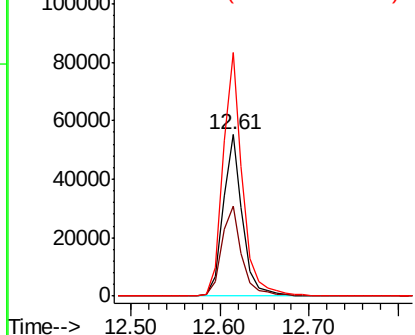


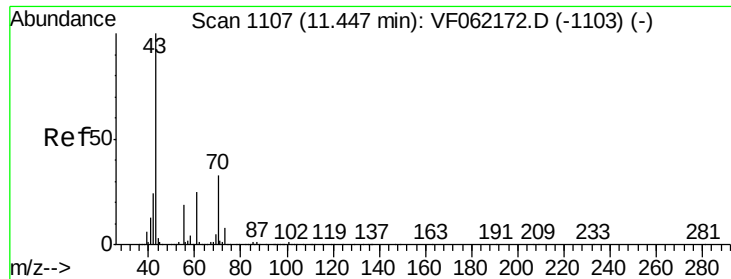
Abundance

Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: Below Cal

RT: 11.45 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VF062188.D

Acq: 16 Apr 2019 21:05

Instrument :

MSVOA_F

ClientSampleId :

BWM-S2-SOIL-PILE

Tot Ion: 43 Resp: 2389

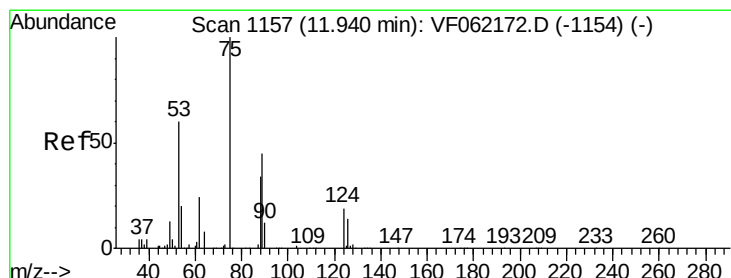
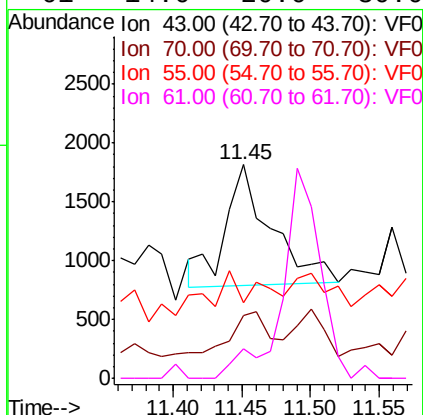
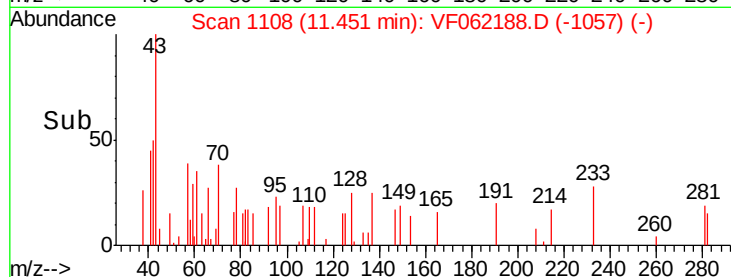
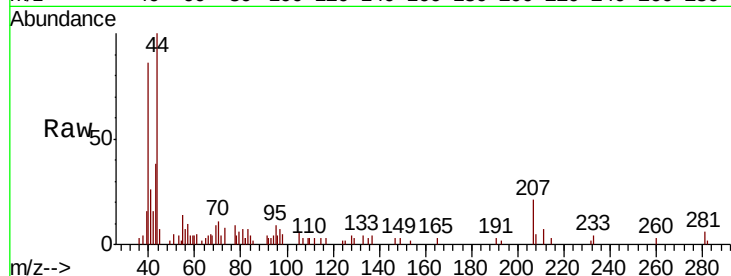
Ion Ratio Lower Upper

43 100

70 29.2 26.6 39.8

55 35.5 15.0 22.6#

61 14.0 20.0 30.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 1.521 ug/l

RT: 11.95 min Scan# 1159

Delta R.T. 0.01 min

Lab File: VF062188.D

Acq: 16 Apr 2019 21:05

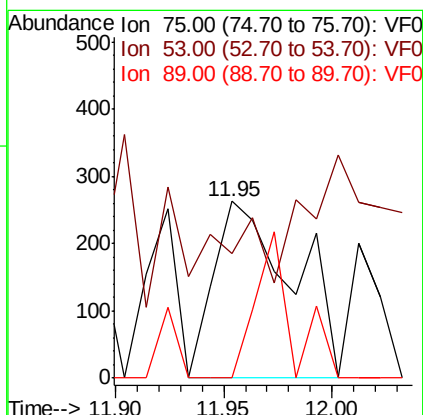
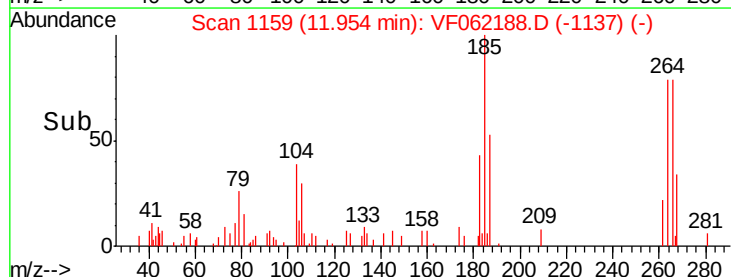
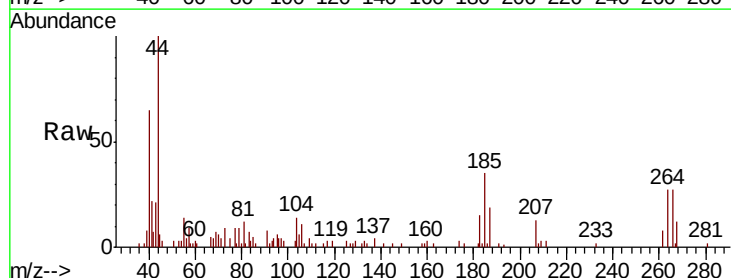
Tgt Ion: 75 Resp: 669

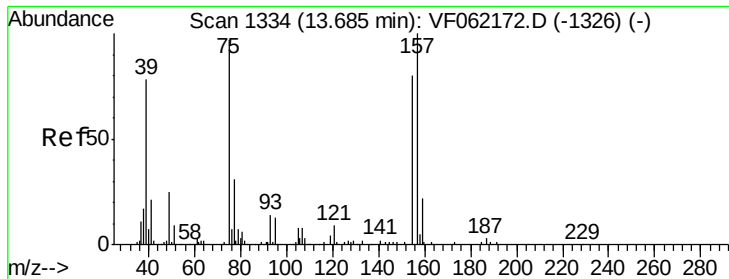
Ion Ratio Lower Upper

75 100

53 70.3 53.4 80.0

89 0.0 38.7 58.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.293 ug/l

RT: 13.83 min Scan# 1349

Delta R.T. 0.14 min

Lab File: VF062188.D

Acq: 16 Apr 2019 21:05

Instrument :

MSVOA_F

ClientSampleId :

BWM-S2-SOIL-PILE

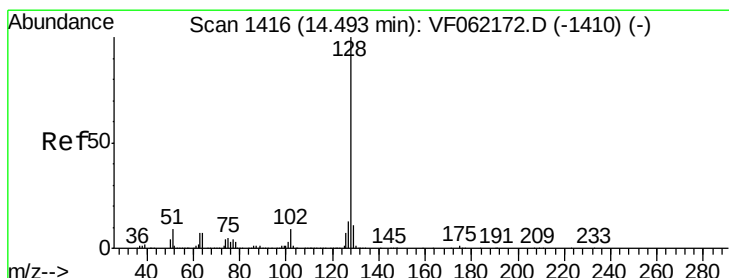
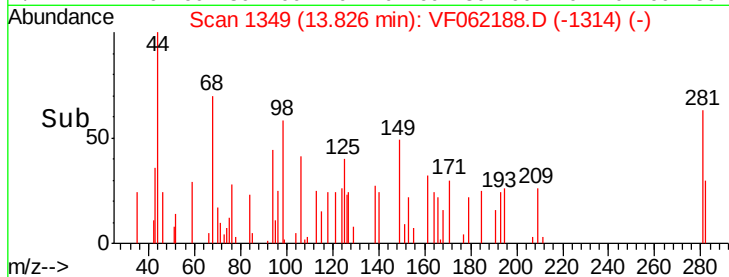
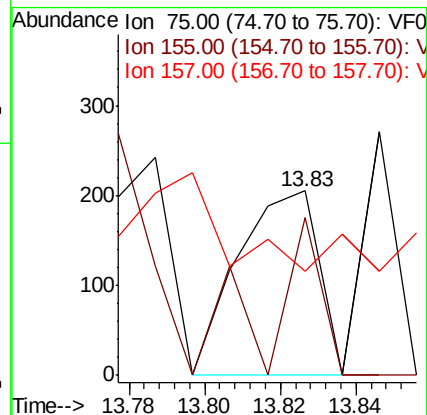
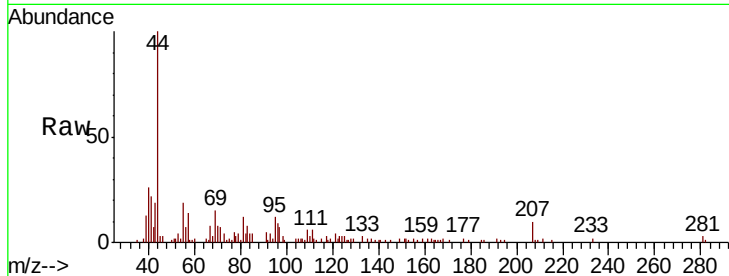
Tot Ion: 75 Resp: 302

Ion Ratio Lower Upper

75 100

155 85.9 41.0 123.0

157 56.6 51.3 154.0



#95

Naphthalene

Concen: 1.773 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. 0.00 min

Lab File: VF062188.D

Acq: 16 Apr 2019 21:05

Tgt Ion: 128 Resp: 6183

Ion Ratio Lower Upper

128 100

127 20.9 10.3 15.5#

129 31.1 9.2 13.8#

