

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041619\
 Data File : VF062187.D
 Acq On : 16 Apr 2019 20:37
 Operator : FY/SY
 Sample : K2435-01
 Misc : 5.00µ/5mL/MSVOA F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 BWM-S1-SOIL-PILE

Quant Time: Apr 17 08:09:46 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

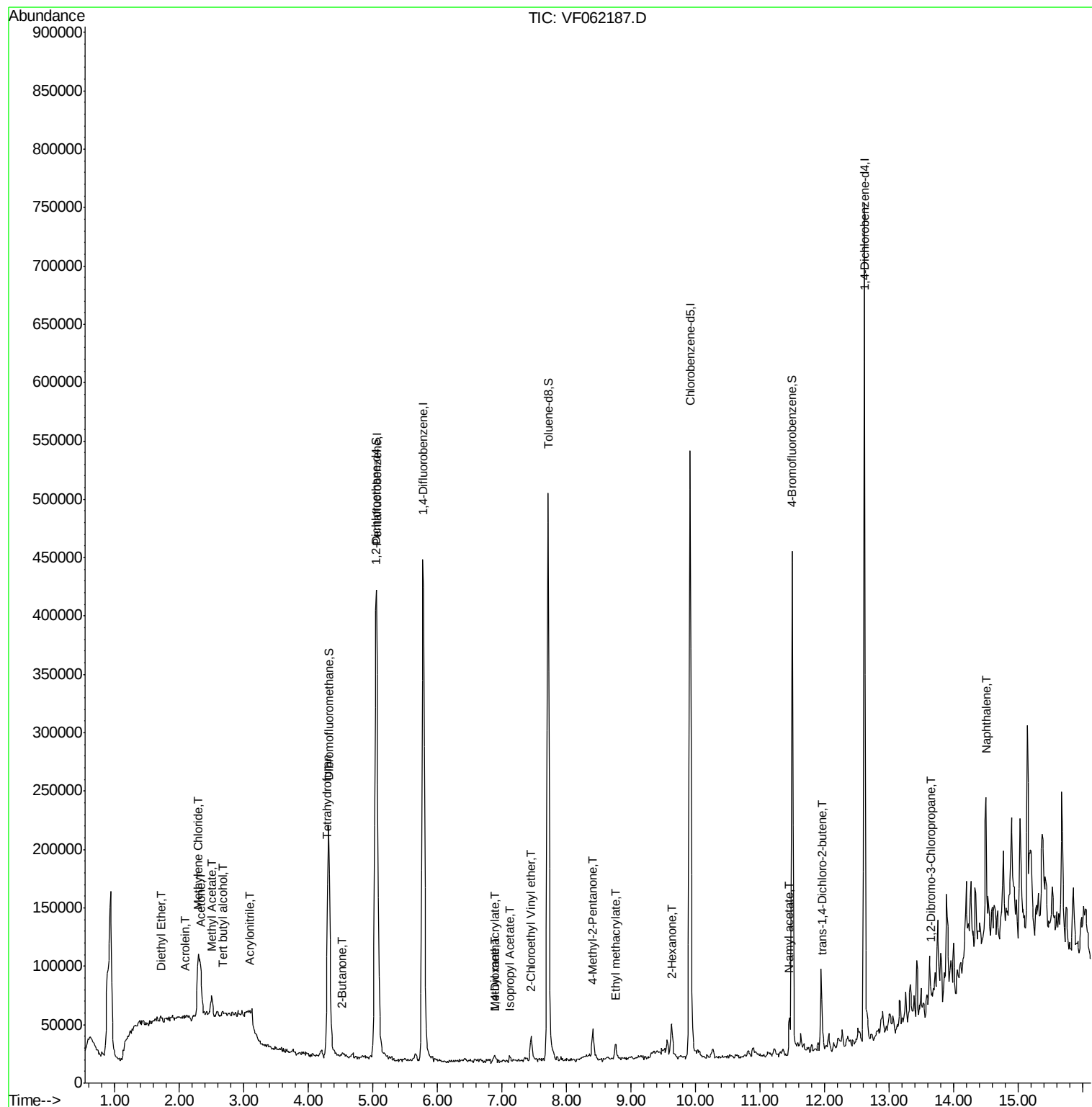
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	335884	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.77	114	522929	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	406329	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.61	152	189007	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.03	65	142033	46.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.92%	
35) Dibromofluoromethane	4.32	113	198913	48.22	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.44%	
50) Toluene-d8	7.72	98	441903	36.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	73.32%	
62) 4-Bromofluorobenzene	11.49	95	180598	37.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	75.88%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.71	74	1158	1.034	ug/l	48
11) Tert butyl alcohol	2.68	59	1092	6.513	ug/l #	1
13) Acrolein	2.09	56	292	2.211	ug/l #	1
15) Acrylonitrile	3.08	53	1864	2.992	ug/l #	55
16) Acetone	2.34	43	5867	8.603	ug/l #	84
18) Methyl Acetate	2.50	43	10029	2.541	ug/l #	71
20) Methylene Chloride	2.29	84	49893	10.907	ug/l	94
25) 2-Butanone	4.53	43	4372	2.984	ug/l #	76
29) Tetrahydrofuran	4.29	42	2893	4.440	ug/l	94
43) Isopropyl Acetate	7.11	43	5880	1.901	ug/l #	97
48) Methyl methacrylate	6.89	41	2383	1.177	ug/l #	82
49) 1,4-Dioxane	6.88	88	382	24.205	ug/l #	1
51) 4-Methyl-2-Pentanone	8.41	43	24983	10.482	ug/l	95
56) Ethyl methacrylate	8.76	69	8416	2.741	ug/l	92
58) 2-Chloroethyl Vinyl ether	7.45	63	11505	14.543	ug/l	96
59) 2-Hexanone	9.63	43	28016	18.495	ug/l	93
74) N-amyl acetate	11.45	43	21246	1.561	ug/l #	97
81) trans-1,4-Dichloro-2-buten	11.96	75	1521	1.546	ug/l	89
89) n-Butylbenzene	12.90	91	5193	Below Cal		87
92) 1,2-Dibromo-3-Chloropropan	13.65	75	601	1.150	ug/l #	3
95) Naphthalene	14.50	128	30814	3.950	ug/l #	87

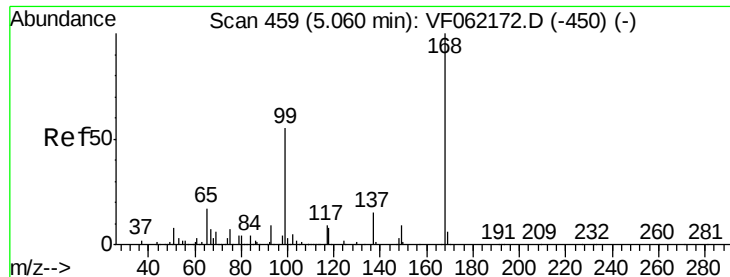
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 459

Delta R.T. -0.01 min

Lab File: VF062187.D

Acq: 16 Apr 2019 20:37

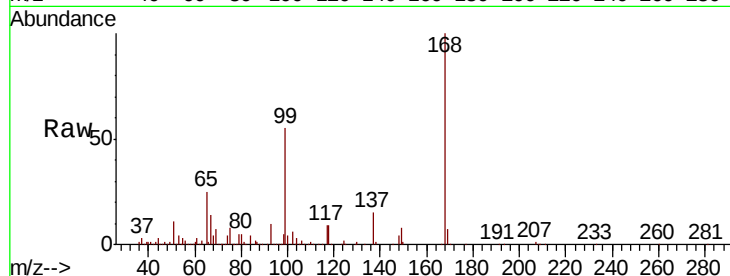
Instrument :
MSVOA_F
ClientSampleId :
BWM-S1-SOIL-PILE

Tot Ion:168 Resp: 335884

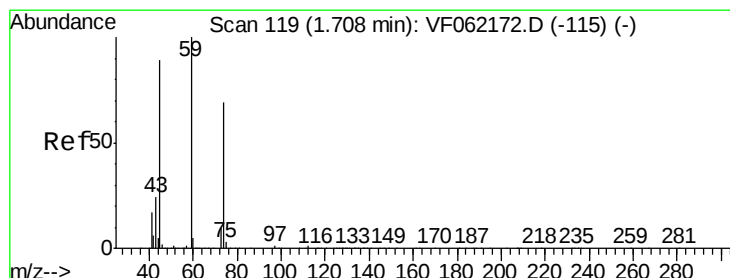
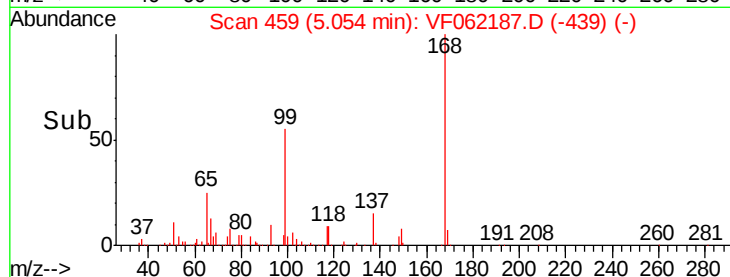
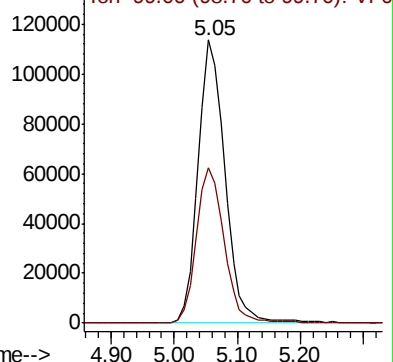
Ion Ratio Lower Upper

168 100

99 55.1 44.2 66.4



Abundance Ion 168.00 (167.70 to 168.70): VF0



#8

Diethyl Ether

Concen: 1.034 ug/l

RT: 1.71 min Scan# 120

Delta R.T. 0.00 min

Lab File: VF062187.D

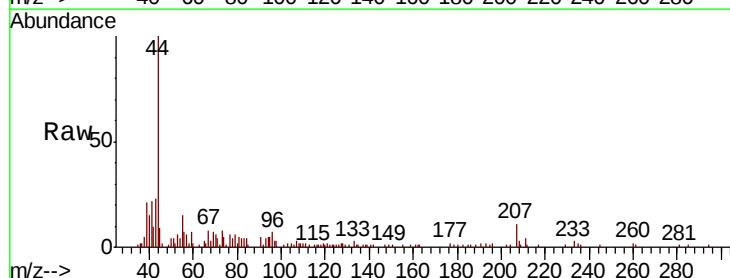
Acq: 16 Apr 2019 20:37

Tgt Ion: 74 Resp: 1158

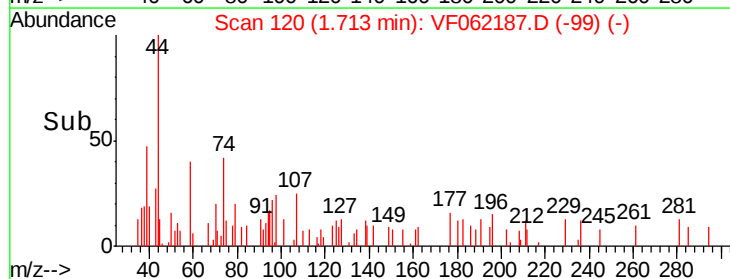
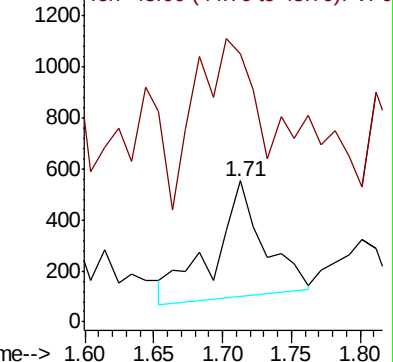
Ion Ratio Lower Upper

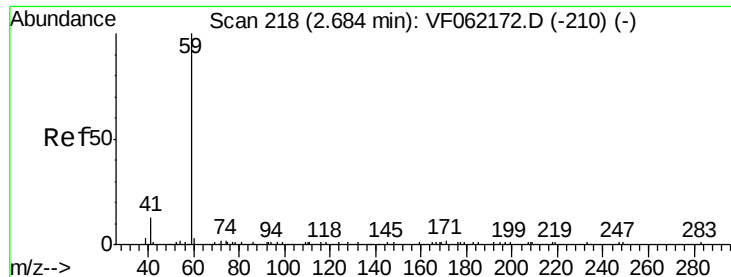
74 100

45 189.7 64.7 194.1



Abundance Ion 74.00 (73.70 to 74.70): VF0



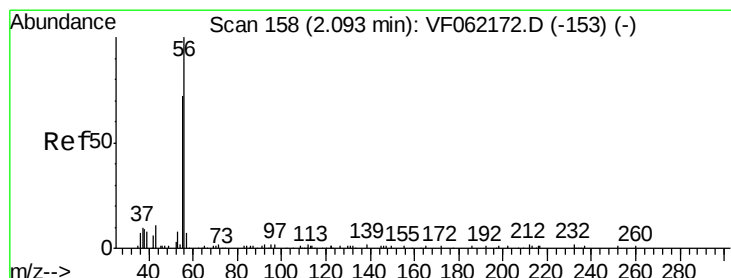
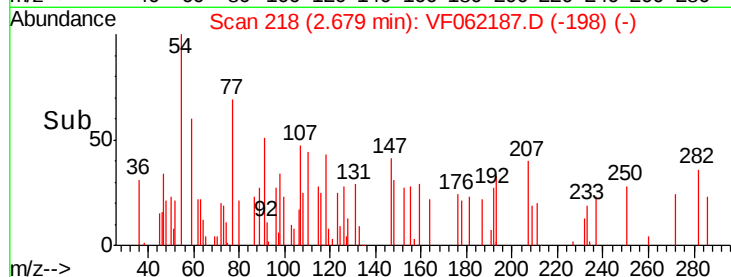
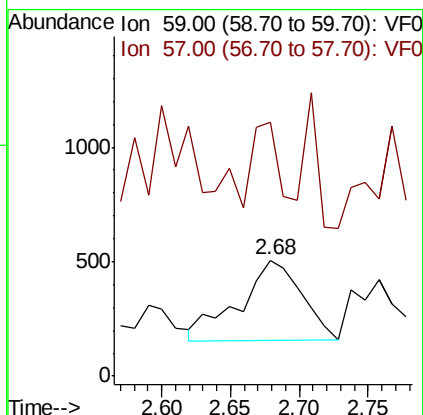
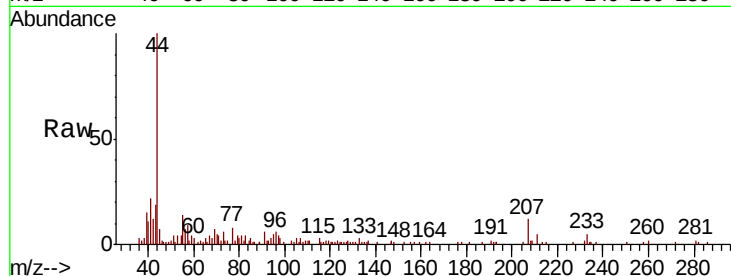


#11

Tert butyl alcohol
 Concen: 6.513 ug/l
 RT: 2.68 min Scan# 218
 Delta R.T. -0.01 min
 Lab File: VF062187.D
 Acq: 16 Apr 2019 20:37

Instrument :
 MSVOA_F
 ClientSampleId :
 BWM-S1-SOIL-PILE

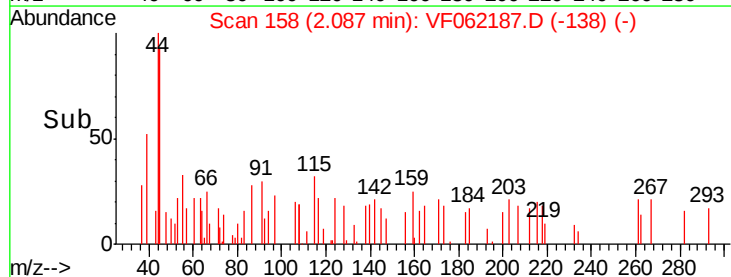
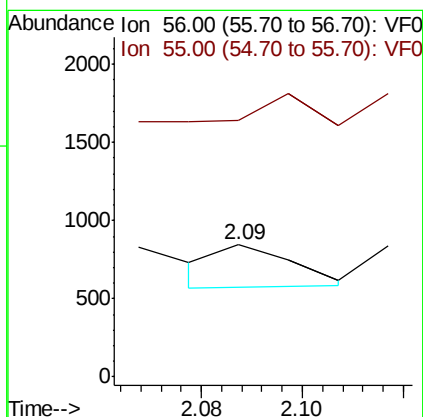
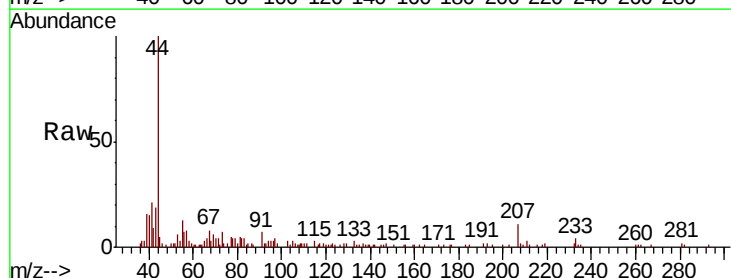
Tot Ion: 59 Resp: 1092
 Ion Ratio Lower Upper
 59 100
 57 219.6 14.2 21.4#

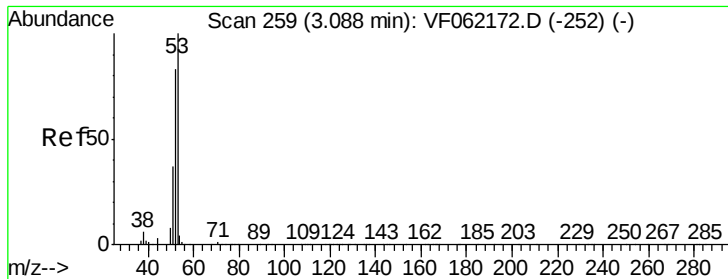


#13

Acrolein
 Concen: 2.211 ug/l
 RT: 2.09 min Scan# 158
 Delta R.T. -0.01 min
 Lab File: VF062187.D
 Acq: 16 Apr 2019 20:37

Tgt Ion: 56 Resp: 292
 Ion Ratio Lower Upper
 56 100
 55 194.7 62.9 94.3#





#15

Acrylonitrile

Concen: 2.992 ug/l

RT: 3.08 min Scan# 259

Delta R.T. -0.01 min

Lab File: VF062187.D

Acq: 16 Apr 2019 20:37

Instrument :

MSVOA_F

ClientSampleId :

BWM-S1-SOIL-PILE

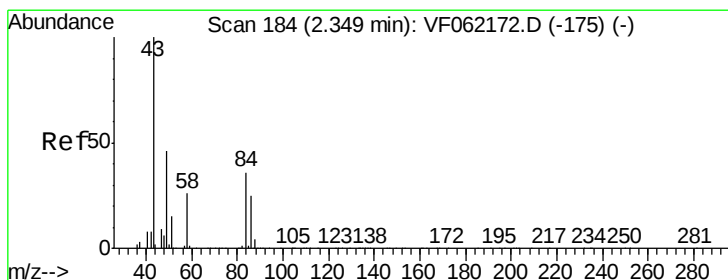
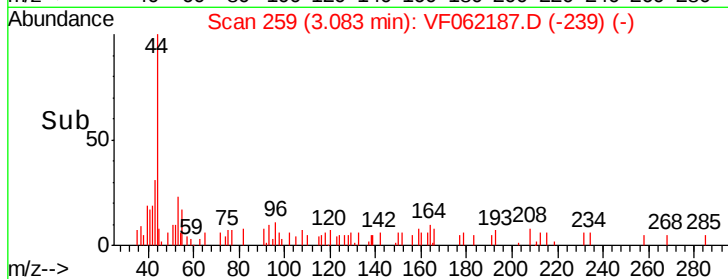
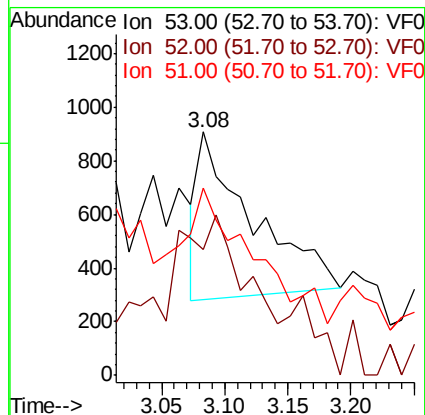
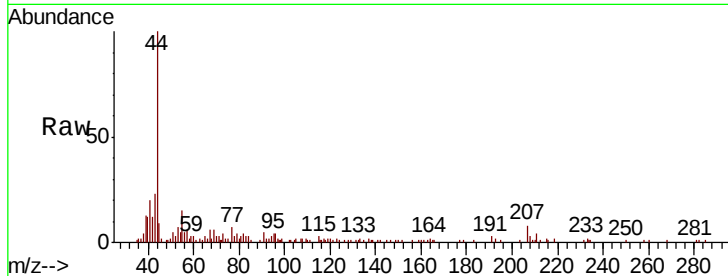
Tot Ion: 53 Resp: 1864

Ion Ratio Lower Upper

53 100

52 51.5 66.6 99.8#

51 77.0 30.1 45.1#



#16

Acetone

Concen: 8.603 ug/l

RT: 2.34 min Scan# 184

Delta R.T. -0.01 min

Lab File: VF062187.D

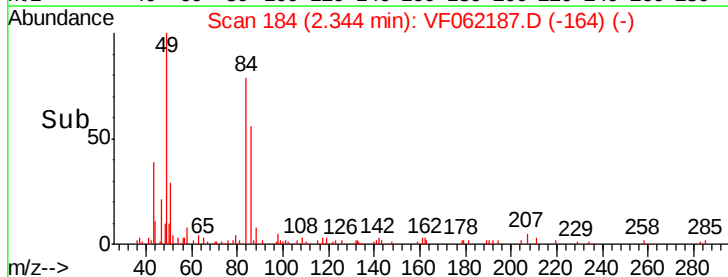
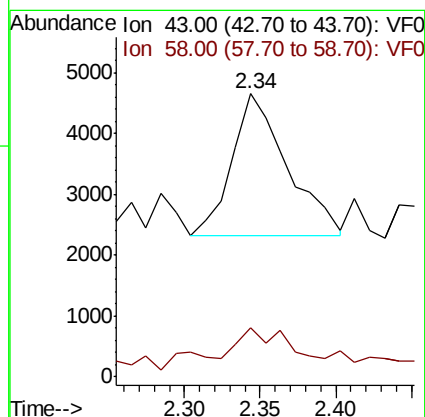
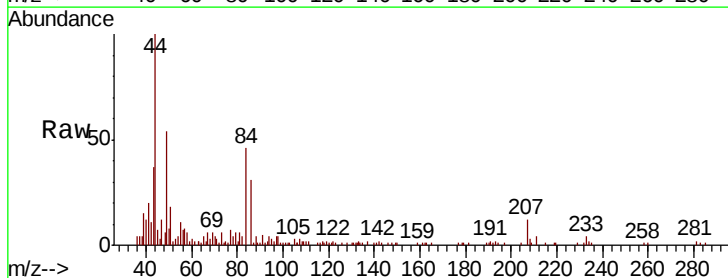
Acq: 16 Apr 2019 20:37

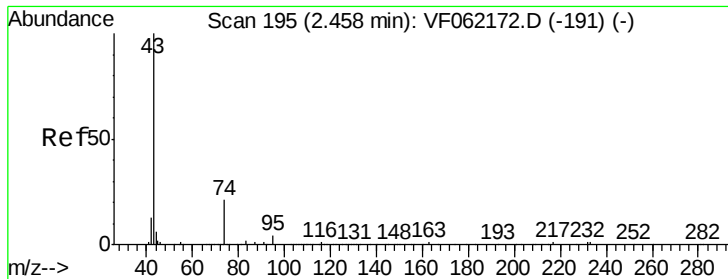
Tgt Ion: 43 Resp: 5867

Ion Ratio Lower Upper

43 100

58 17.4 20.2 30.2#

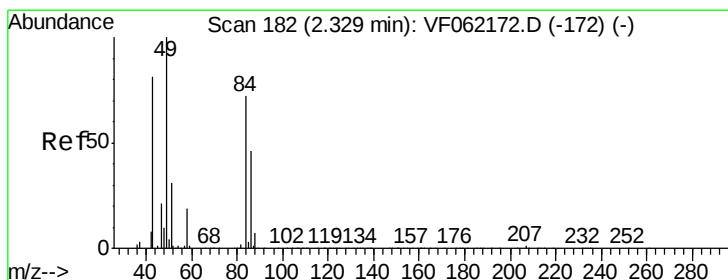
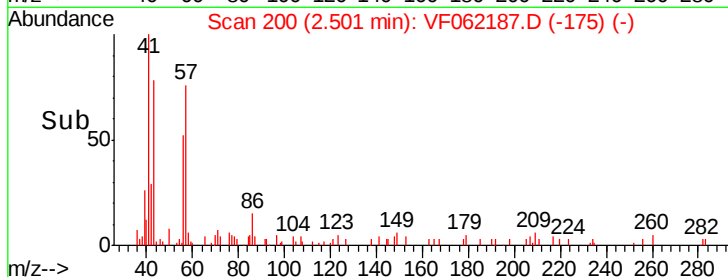
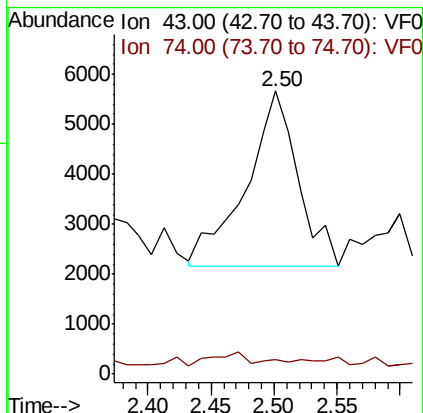
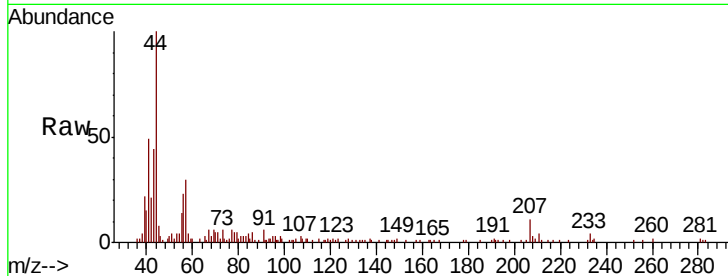




#18
Methyl Acetate
Concen: 2.541 ug/l
RT: 2.50 min Scan# 200
Delta R.T. 0.04 min
Lab File: VF062187.D
Acq: 16 Apr 2019 20:37

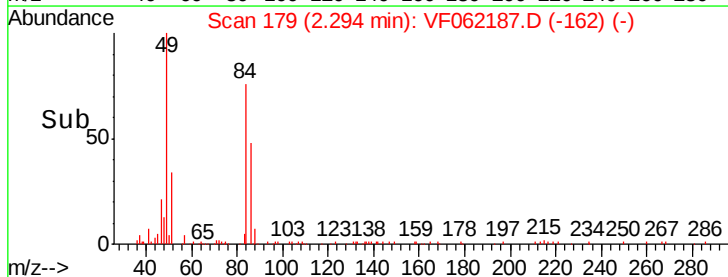
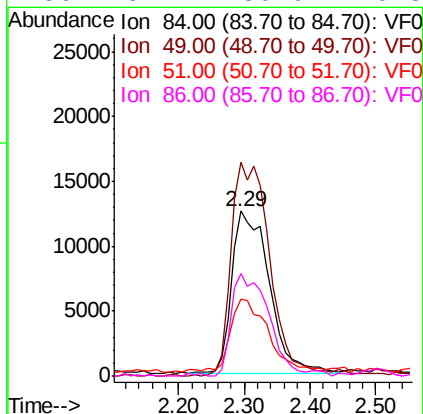
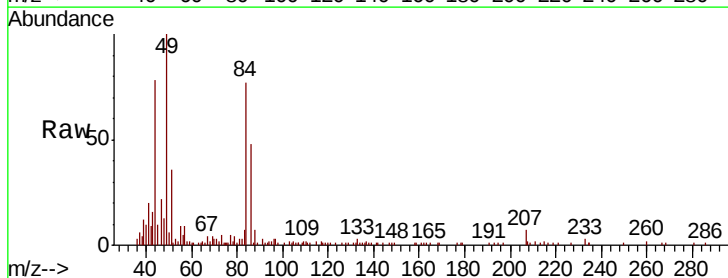
Instrument :
MSVOA_F
ClientSampleId :
BWM-S1-SOIL-PILE

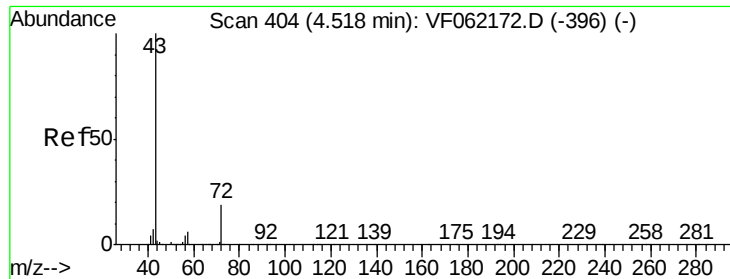
Tot Ion: 43 Resp: 10029
Ion Ratio Lower Upper
43 100
74 5.0 14.2 21.4#



#20
Methylene Chloride
Concen: 10.907 ug/l
RT: 2.29 min Scan# 179
Delta R.T. -0.03 min
Lab File: VF062187.D
Acq: 16 Apr 2019 20:37

Tgt Ion: 84 Resp: 49893
Ion Ratio Lower Upper
84 100
49 129.7 111.5 167.3
51 46.3 34.9 52.3
86 62.4 50.9 76.3





#25

2-Butanone

Concen: 2.984 ug/l

RT: 4.53 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF062187.D

Acq: 16 Apr 2019 20:37

Instrument :

MSVOA_F

ClientSampleId :

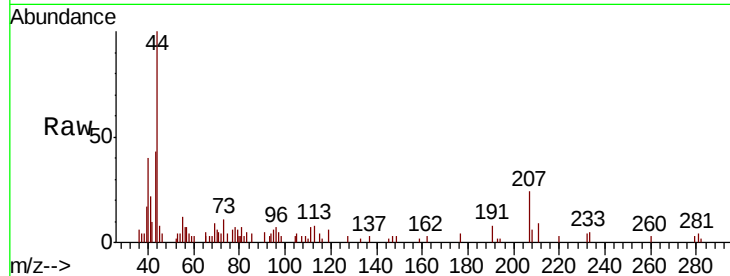
BWM-S1-SOIL-PILE

Tot Ion: 43 Resp: 4372

Ion Ratio Lower Upper

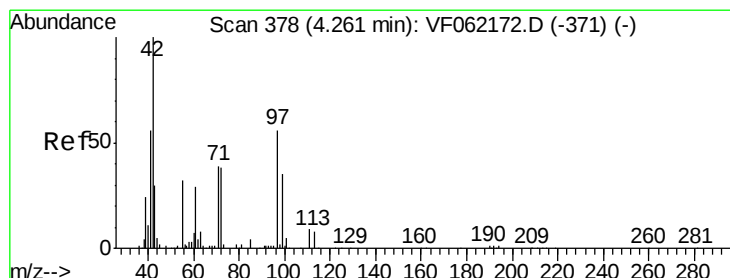
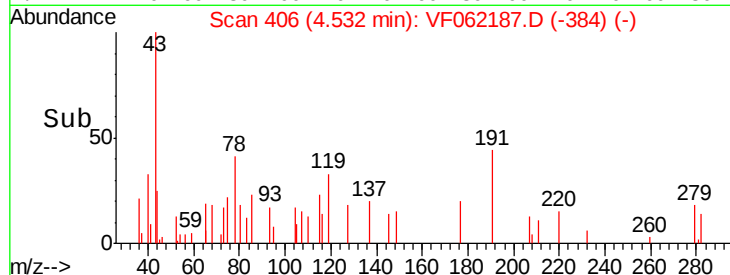
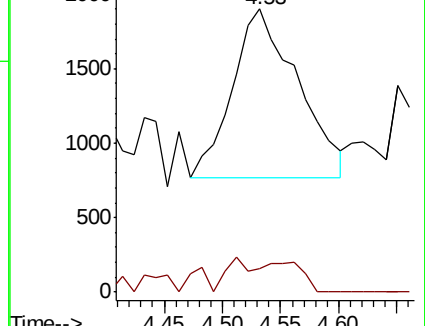
43 100

72 8.5 15.4 23.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 4.440 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.02 min

Lab File: VF062187.D

Acq: 16 Apr 2019 20:37

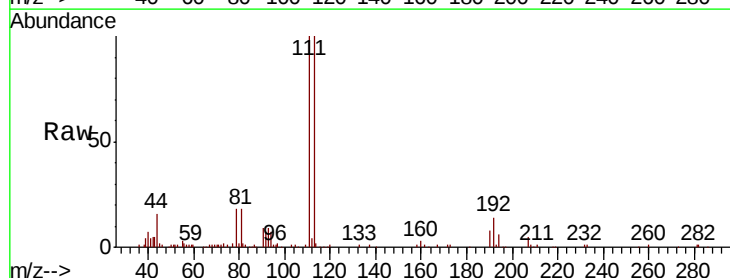
Tgt Ion: 42 Resp: 2893

Ion Ratio Lower Upper

42 100

72 29.9 28.7 43.1

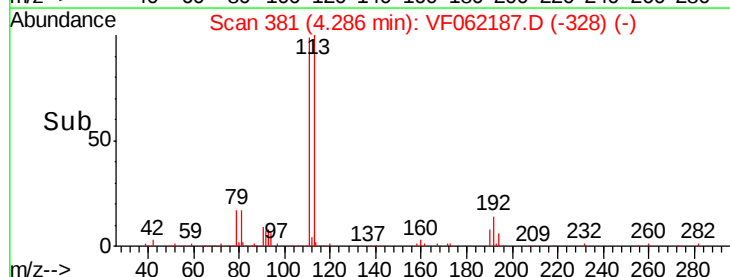
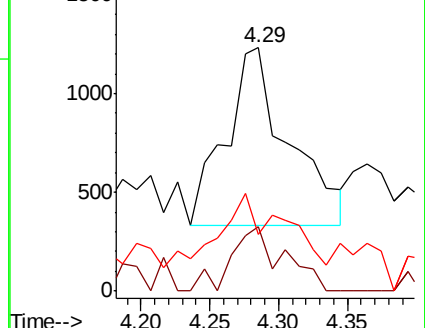
71 40.1 30.8 46.2

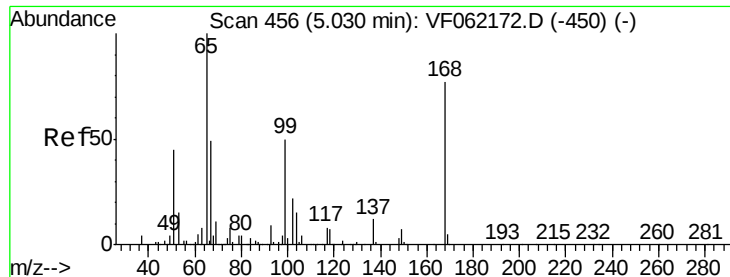


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

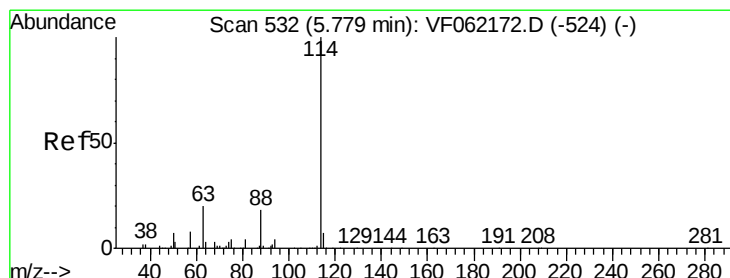
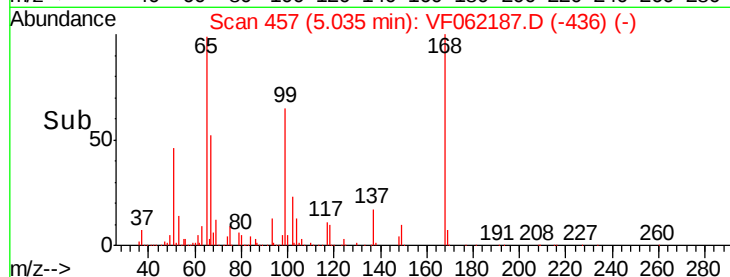
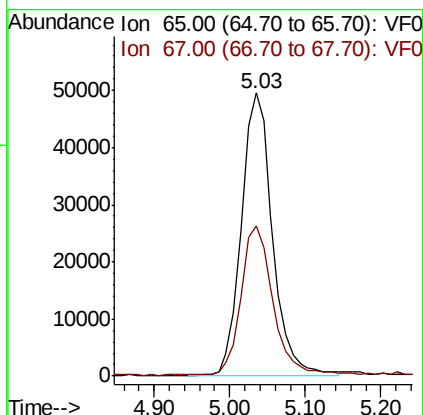
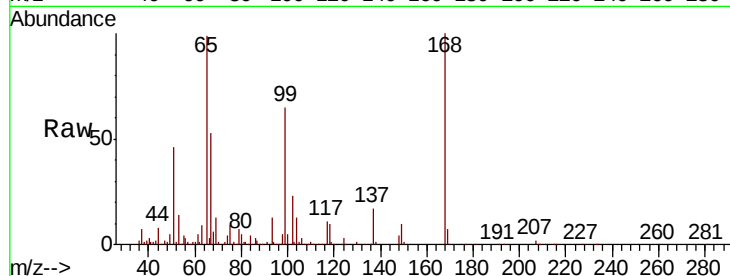




#33
 1,2-Dichloroethane-d4
 Concen: 46.960 ug/l
 RT: 5.03 min Scan# 457
 Delta R.T. 0.00 min
 Lab File: VF062187.D
 Acq: 16 Apr 2019 20:37

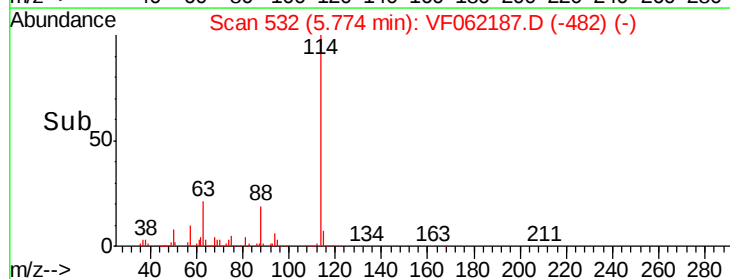
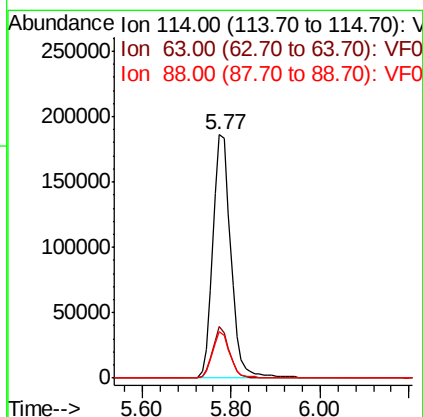
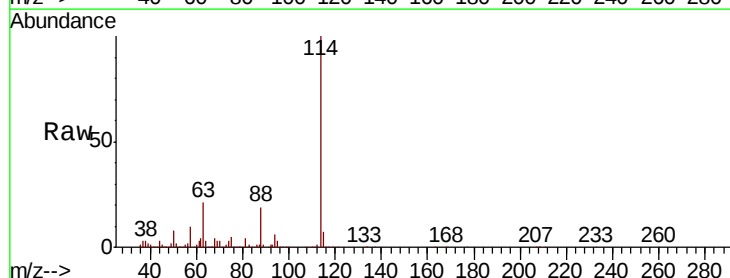
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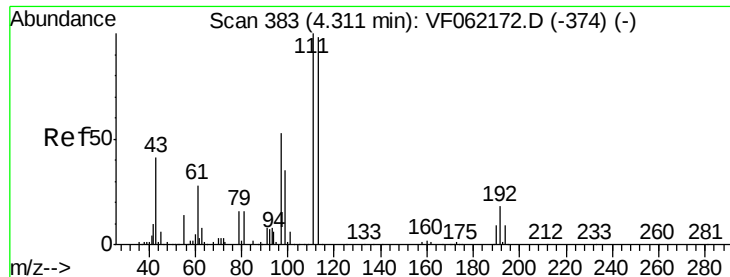
Tot Ion: 65 Resp: 142033
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.77 min Scan# 532
 Delta R.T. -0.01 min
 Lab File: VF062187.D
 Acq: 16 Apr 2019 20:37

Tgt Ion: 114 Resp: 522929
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 40.0
 88 19.2 0.0 36.6

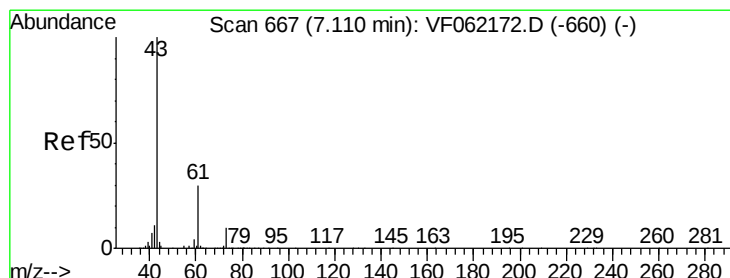
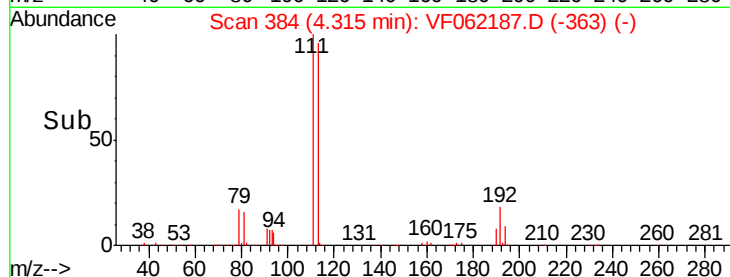
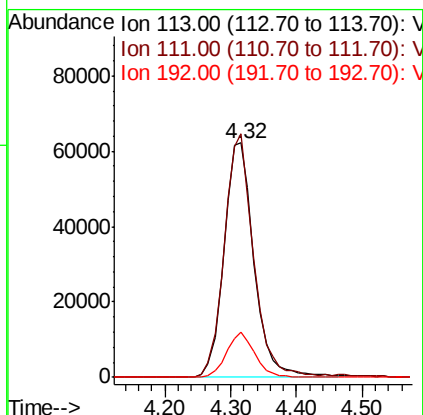
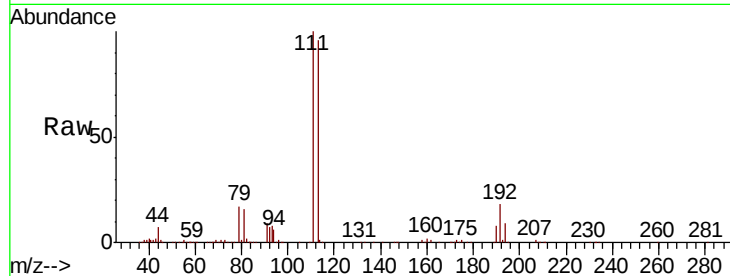




#35
 Dibromofluoromethane
 Concen: 48.221 ug/l
 RT: 4.32 min Scan# 384
 Delta R.T. 0.00 min
 Lab File: VF062187.D
 Acq: 16 Apr 2019 20:37

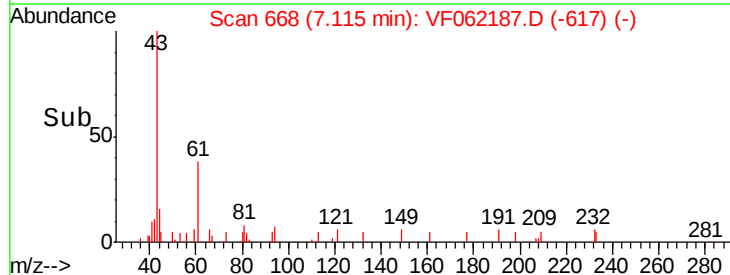
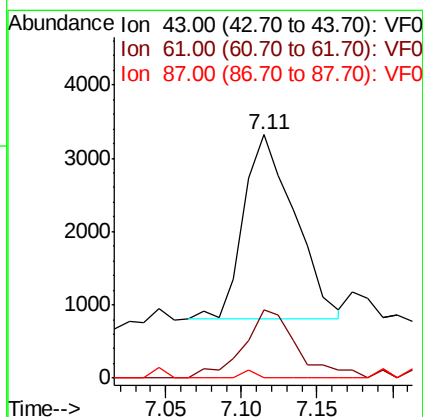
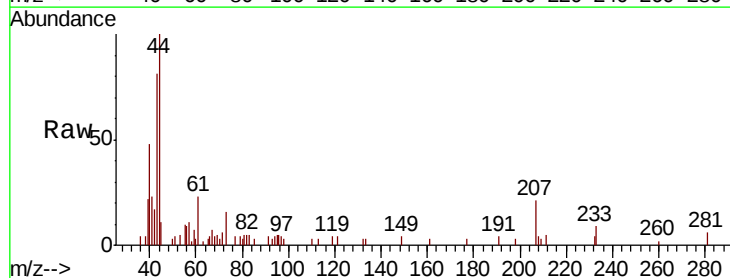
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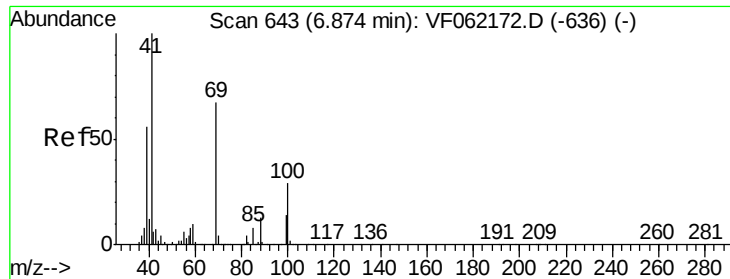
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.6	122.4
192	19.0	15.0	22.4



#43
 Isopropyl Acetate
 Concen: 1.901 ug/l
 RT: 7.11 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: VF062187.D
 Acq: 16 Apr 2019 20:37

Tgt Ion	Ratio	Lower	Upper
43	100		
61	27.8	23.7	35.5
87	0.0	0.3	0.5#

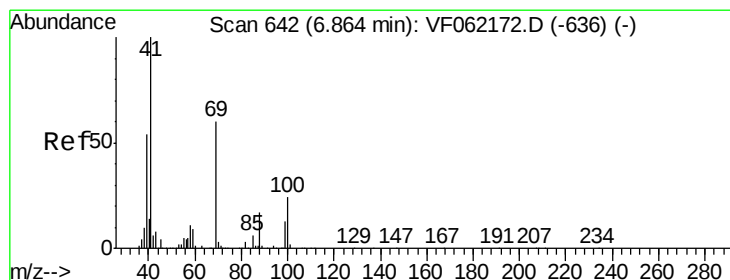
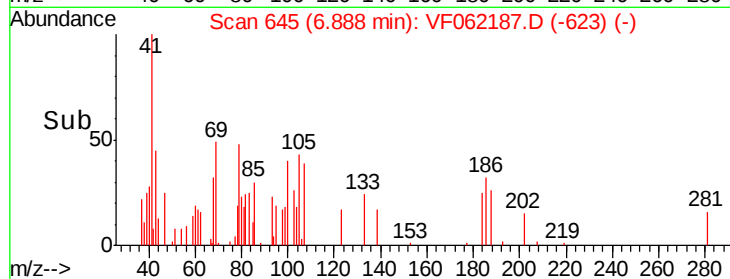
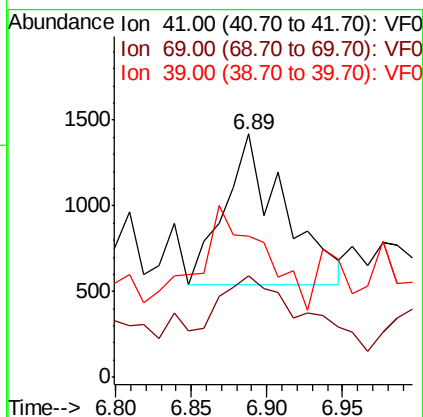
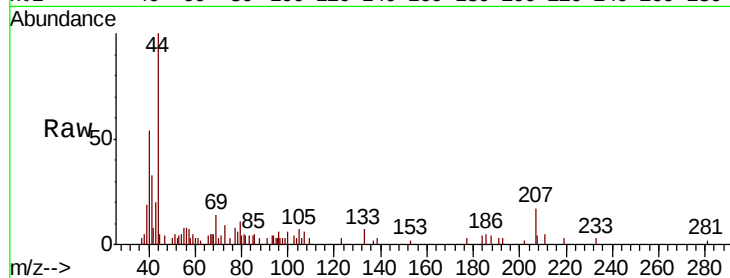




#48
Methyl methacrylate
Concen: 1.177 ug/l
RT: 6.89 min Scan# 645
Delta R.T. 0.01 min
Lab File: VF062187.D
Acq: 16 Apr 2019 20:37

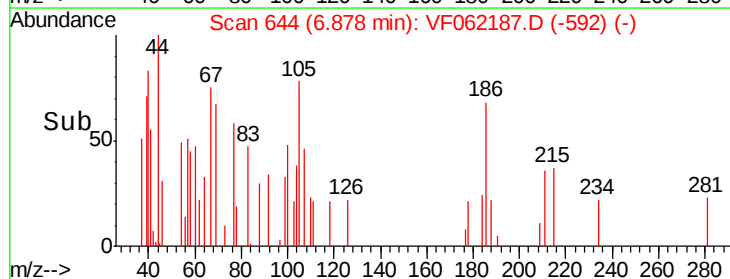
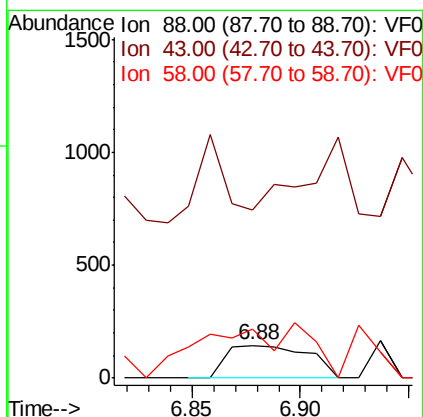
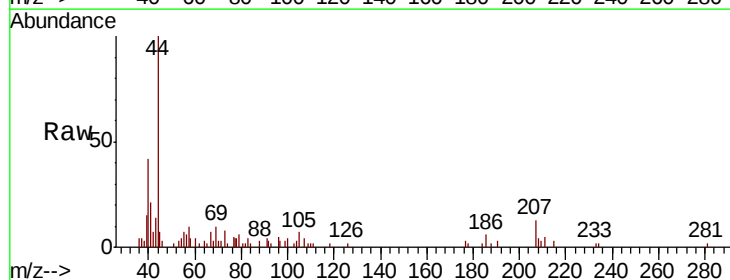
Instrument :
MSVOA_F
ClientSampleId :
BWM-S1-SOIL-PILE

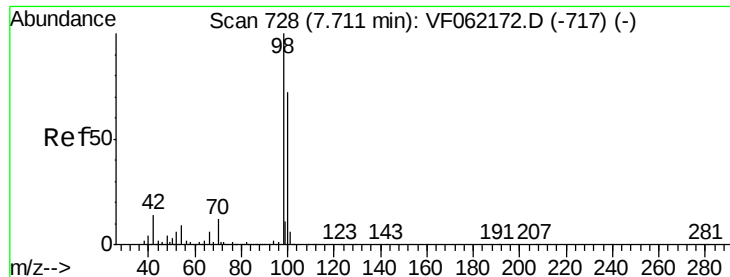
Tot Ion: 41 Resp: 2383
Ion Ratio Lower Upper
41 100
69 41.8 52.8 79.2#
39 57.9 45.0 67.4



#49
1,4-Dioxane
Concen: 24.205 ug/l
RT: 6.88 min Scan# 644
Delta R.T. 0.01 min
Lab File: VF062187.D
Acq: 16 Apr 2019 20:37

Tgt Ion: 88 Resp: 382
Ion Ratio Lower Upper
88 100
43 513.8 49.5 74.3#
58 149.0 52.6 79.0#





#50

Toluene-d8

Concen: 36.659 ug/l

RT: 7.72 min Scan# 729

Delta R.T. 0.00 min

Lab File: VF062187.D

Acq: 16 Apr 2019 20:37

Instrument :

MSVOA_F

ClientSampleId :

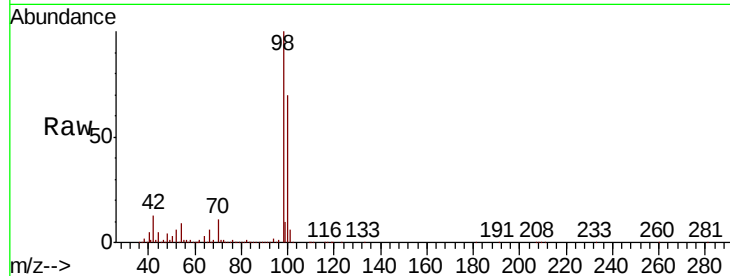
BWM-S1-SOIL-PILE

Tot Ion: 98 Resp: 441903

Ion Ratio Lower Upper

98 100

100 70.1 57.4 86.0



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.72

200000

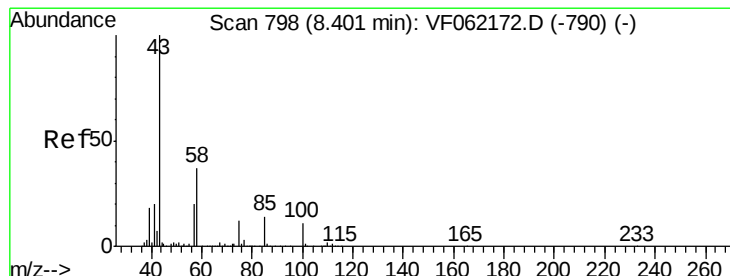
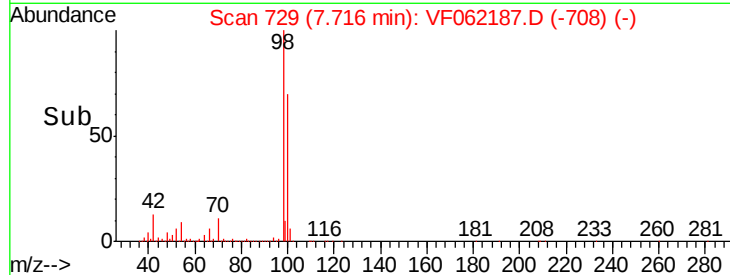
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 10.482 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF062187.D

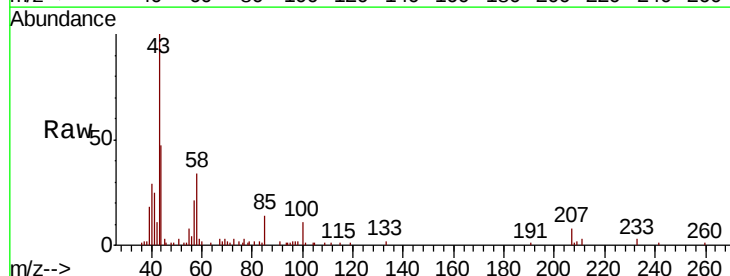
Acq: 16 Apr 2019 20:37

Tgt Ion: 43 Resp: 24983

Ion Ratio Lower Upper

43 100

58 34.4 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.41

12000

10000

8000

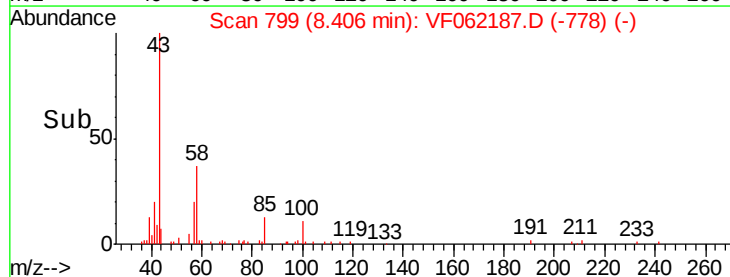
6000

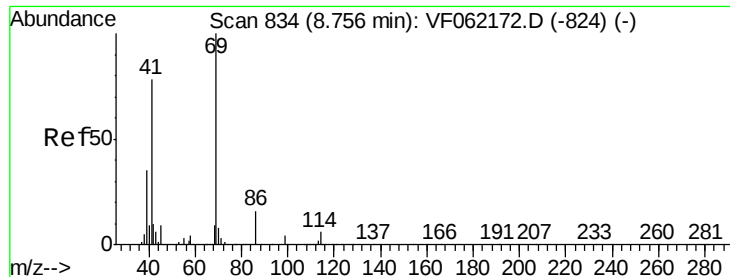
4000

2000

0

Time-->





#56

Ethyl methacrylate

Concen: 2.741 ug/l

RT: 8.76 min Scan# 835

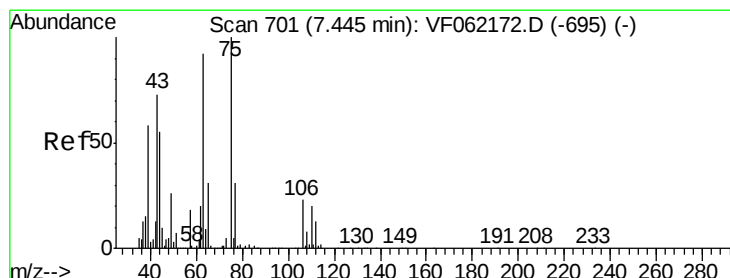
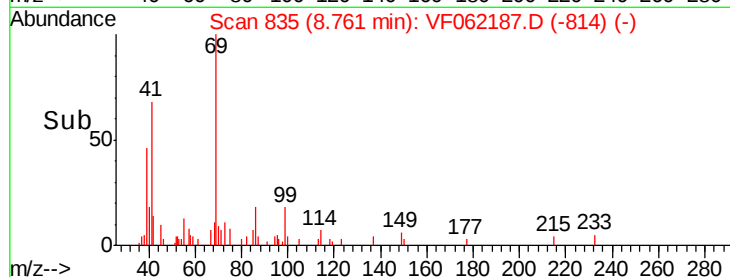
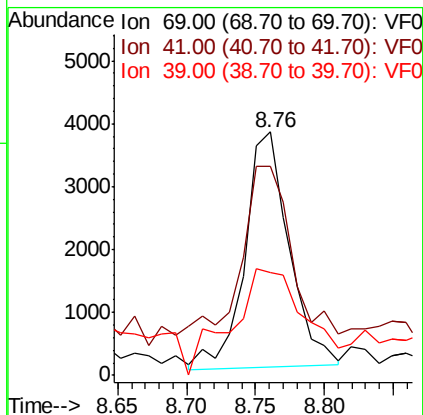
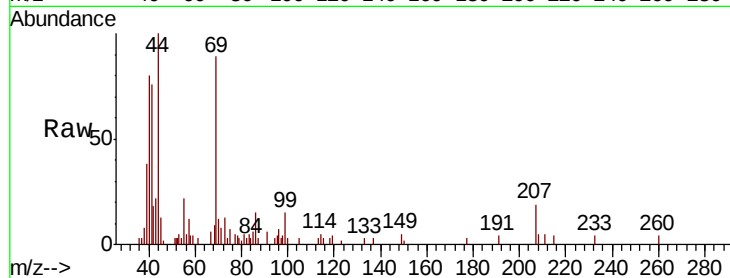
Delta R.T. 0.00 min

Lab File: VF062187.D

Acq: 16 Apr 2019 20:37

Instrument :
MSVOA_F
ClientSampleId :
BWM-S1-SOIL-PILE

Tot Ion:	69	Resp:	8416
Ion	Ratio	Lower	Upper
69	100		
41	85.9	63.4	95.0
39	42.2	29.0	43.6



#58

2-Chloroethyl Vinyl ether

Concen: 14.543 ug/l

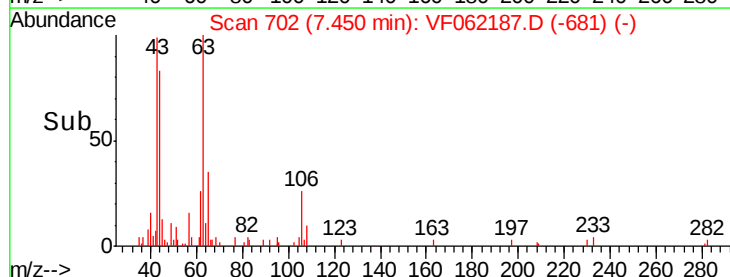
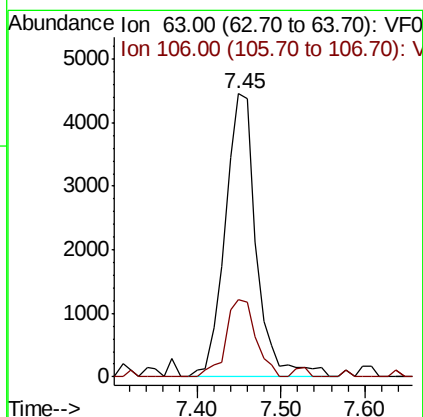
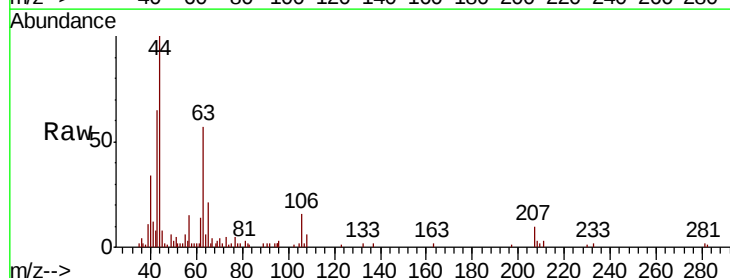
RT: 7.45 min Scan# 702

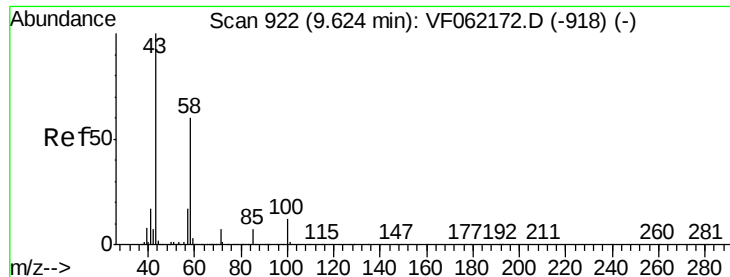
Delta R.T. 0.00 min

Lab File: VF062187.D

Acq: 16 Apr 2019 20:37

Tgt Ion:	63	Resp:	11505
Ion	Ratio	Lower	Upper
63	100		
106	27.4	20.2	30.4

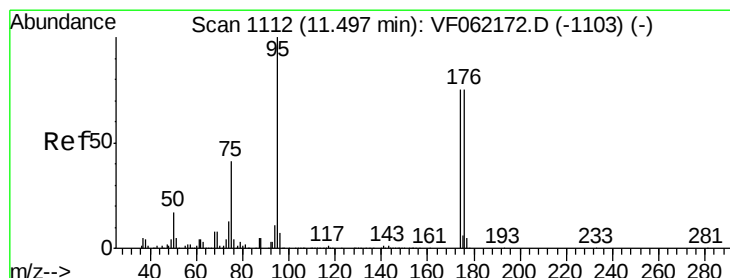
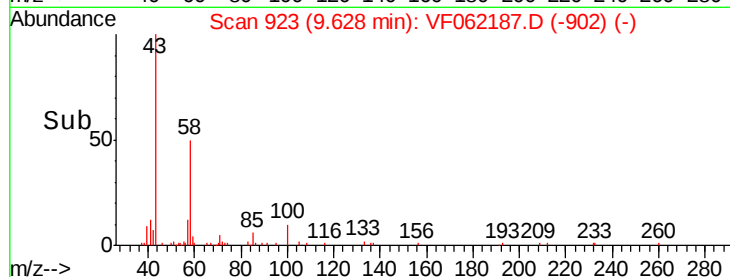
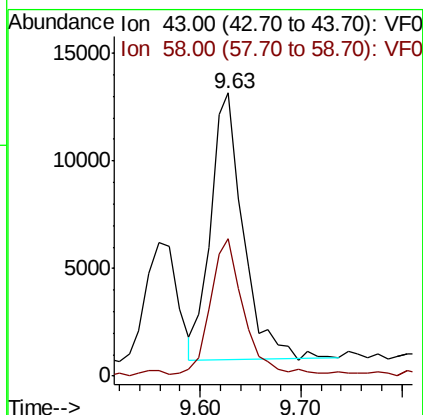
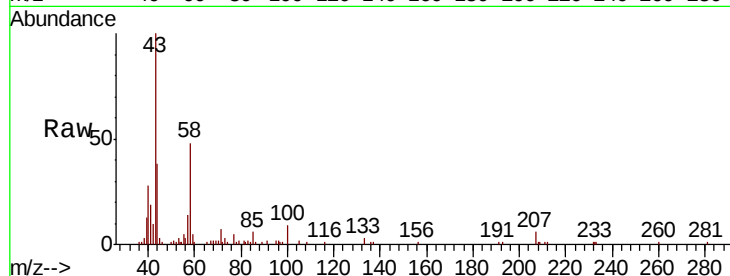




#59
2-Hexanone
Concen: 18.495 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF062187.D
Acq: 16 Apr 2019 20:37

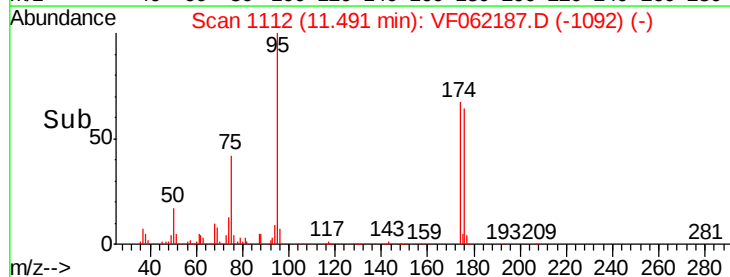
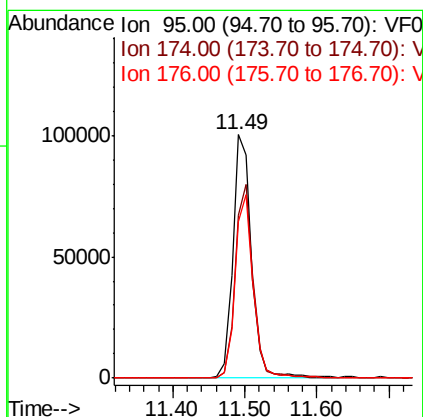
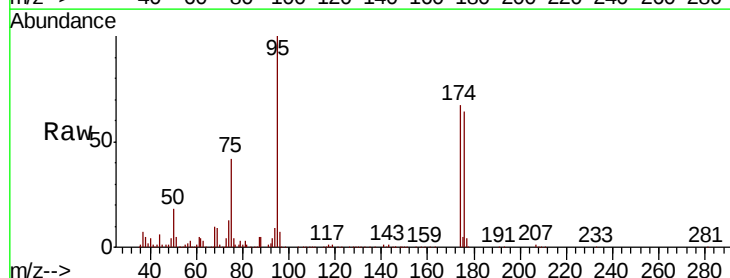
Instrument :
MSVOA_F
ClientSampleId :
BWM-S1-SOIL-PILE

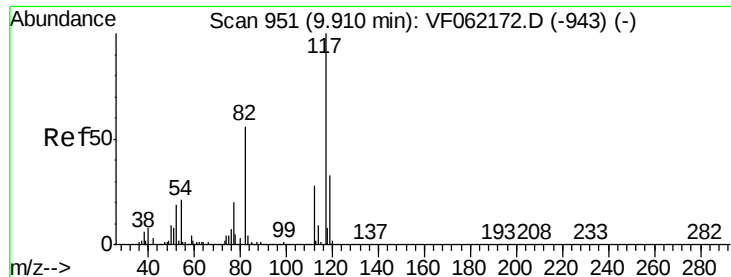
Tot Ion: 43 Resp: 28016
Ion Ratio Lower Upper
43 100
58 48.4 26.8 80.4



#62
4-Bromofluorobenzene
Concen: 37.938 ug/l
RT: 11.49 min Scan# 1112
Delta R.T. -0.01 min
Lab File: VF062187.D
Acq: 16 Apr 2019 20:37

Tgt Ion: 95 Resp: 180598
Ion Ratio Lower Upper
95 100
174 67.2 0.0 150.2
176 64.4 0.0 149.4

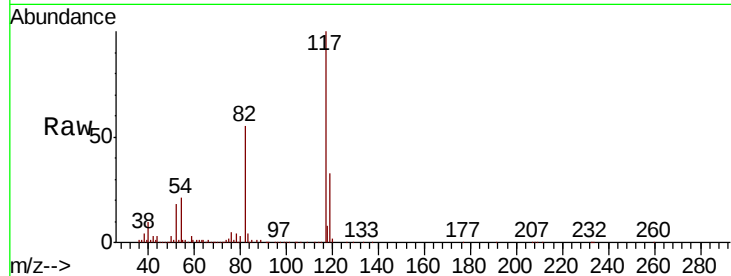




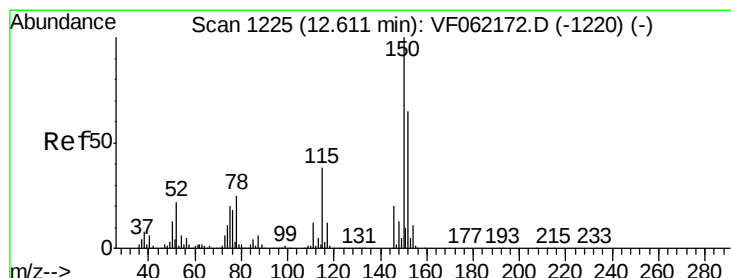
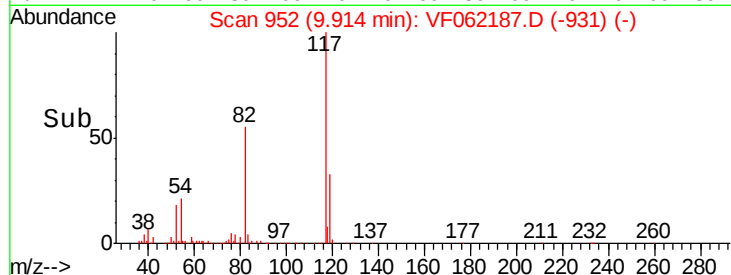
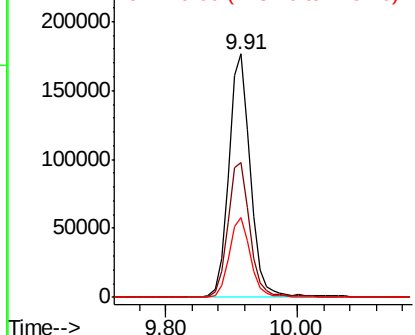
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 952
Delta R.T. 0.00 min
Lab File: VF062187.D
Acq: 16 Apr 2019 20:37

Instrument :
MSVOA_F
ClientSampleId :
BWM-S1-SOIL-PILE

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.4	45.2	67.8
119	32.7	26.6	39.8

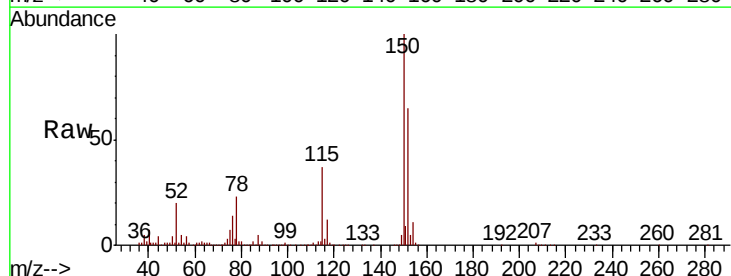


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

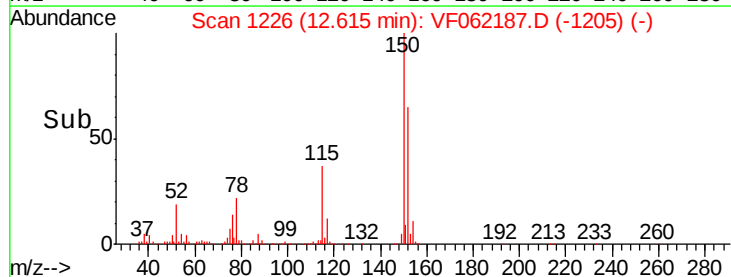
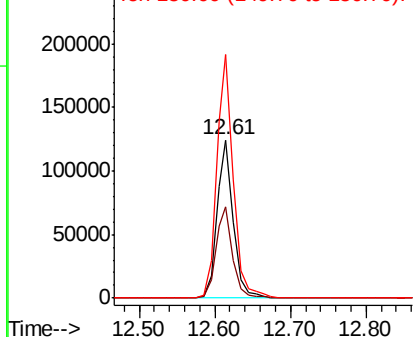


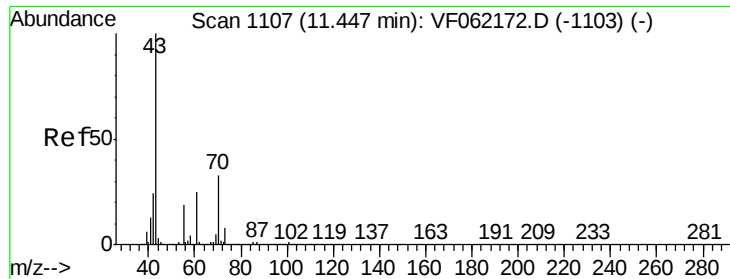
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. 0.00 min
Lab File: VF062187.D
Acq: 16 Apr 2019 20:37

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.7	29.0	87.1
150	153.8	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

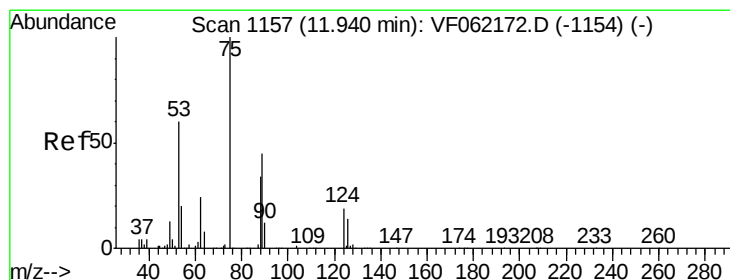
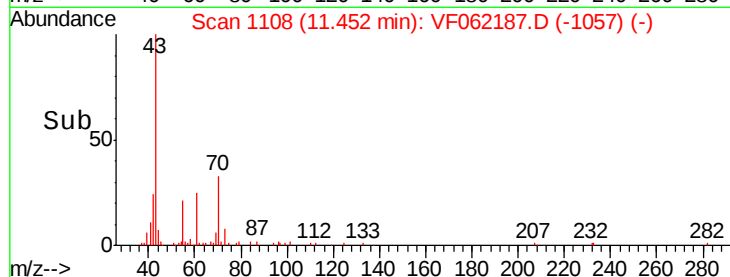
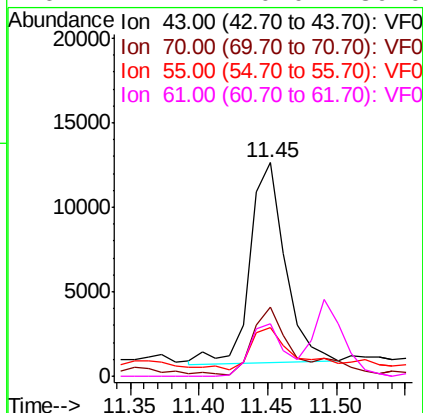
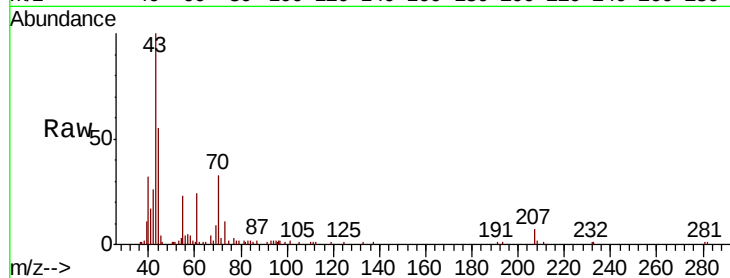




#74
N-amvl acetate
Concen: 1.561 ug/l
RT: 11.45 min Scan# 1108
Delta R.T. 0.00 min
Lab File: VF062187.D
Acq: 16 Apr 2019 20:37

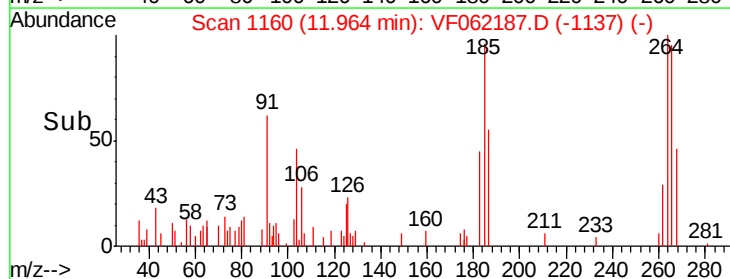
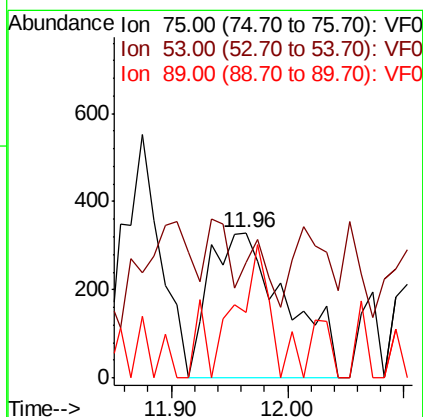
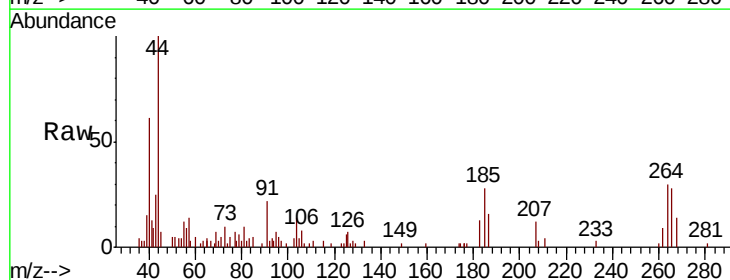
Instrument :
MSVOA_F
ClientSampleId :
BWM-S1-SOIL-PILE

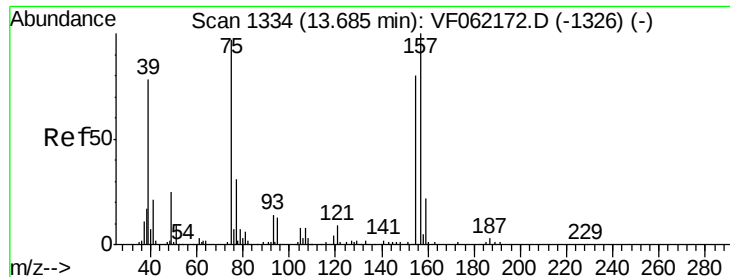
Tot Ion:	43	Resp:	21246
Ion	Ratio	Lower	Upper
43	100		
70	32.6	26.6	39.8
55	22.8	15.0	22.6
61	24.4	20.0	30.0



#81
trans-1,4-Dichloro-2-butene
Concen: 1.546 ug/l
RT: 11.96 min Scan# 1160
Delta R.T. 0.02 min
Lab File: VF062187.D
Acq: 16 Apr 2019 20:37

Tgt Ion:	75	Resp:	1521
Ion	Ratio	Lower	Upper
75	100		
53	79.6	53.4	80.0
89	45.3	38.7	58.1





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.150 ug/l

RT: 13.65 min Scan# 1331

Delta R.T. -0.04 min

Lab File: VF062187.D

Acq: 16 Apr 2019 20:37

Instrument :

MSVOA_F

ClientSampleId :

BWM-S1-SOIL-PILE

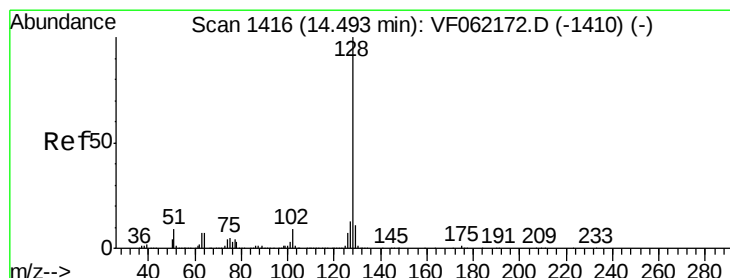
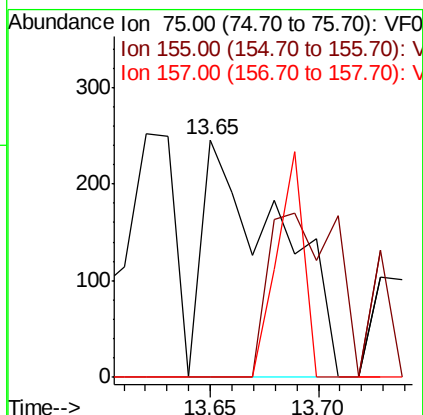
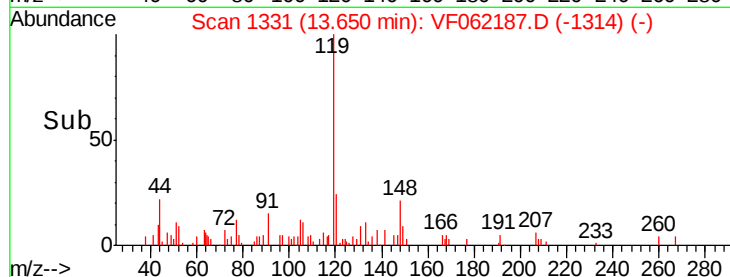
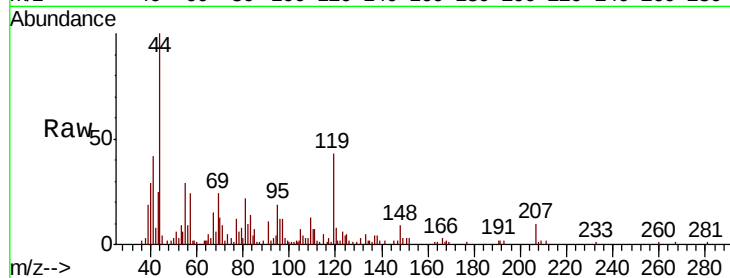
Tot Ion: 75 Resp: 601

Ion Ratio Lower Upper

75 100

155 0.0 41.0 123.0#

157 0.0 51.3 154.0#



#95

Naphthalene

Concen: 3.950 ug/l

RT: 14.50 min Scan# 1417

Delta R.T. 0.00 min

Lab File: VF062187.D

Acq: 16 Apr 2019 20:37

Tgt Ion:128 Resp: 30814

Ion Ratio Lower Upper

128 100

127 15.1 10.3 15.5

129 19.9 9.2 13.8#

