

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF072318\
 Data File : VF059622.D
 Acq On : 23 Jul 2018 19:04
 Operator : VA/AP
 Sample : J4099-02
 Misc : 6.45g/5mL/MSVOA_F/SOIL
 ALS Vial : 93 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-02

Quant Time: Jul 24 04:51:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F072318S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 04:17:55 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	228717	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	333007	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	223147	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.62	152	65223	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	107365	29.83	ug/l	0.00
Spiked Amount			Recovery	=	59.66%	
35) Dibromofluoromethane	4.29	113	90441	29.44	ug/l	0.00
Spiked Amount			Recovery	=	58.88%	
50) Toluene-d8	7.71	98	184408	23.97	ug/l	0.00
Spiked Amount			Recovery	=	47.94%	
62) 4-Bromofluorobenzene	11.50	95	61708	13.90	ug/l	0.00
Spiked Amount			Recovery	=	27.80%	

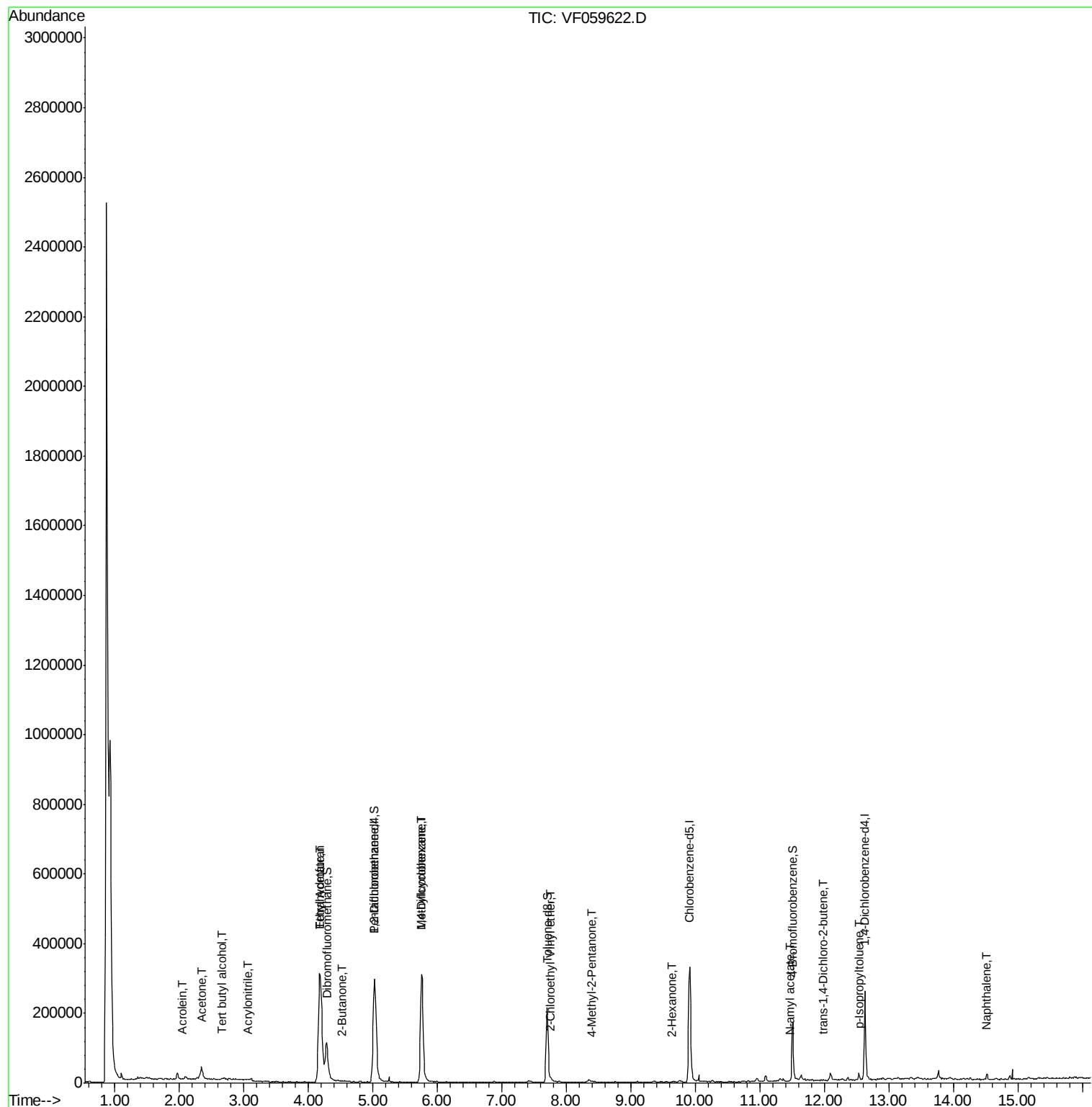
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.68	59	2791	19.052	ug/l #	50
13) Acrolein	2.04	56	493	6.711	ug/l	94
15) Acrylonitrile	3.07	53	607	2.686	ug/l #	58
16) Acetone	2.34	43	12702	20.584	ug/l #	63
18) Methyl Acetate	2.45	43	2780	Below Cal	#	88
20) Methylene Chloride	2.27	84	2260	Below Cal	#	77
25) 2-Butanone	4.51	43	2217	3.485	ug/l #	62
29) Tetrahydrofuran	4.19	42	11128	43.171	ug/l #	54
37) Ethyl Acetate	4.18	43	29625	21.851	ug/l #	42
39) Methylcyclohexane	5.76	83	4626	1.691	ug/l #	37
49) 1,4-Dioxane	6.89	88	137	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.41	43	1353	1.072	ug/l	97
58) 2-Chloroethyl Vinyl ether	7.76	63	316	1.528	ug/l	100
59) 2-Hexanone	9.63	43	1832	1.788	ug/l	70
74) N-amyl acetate	11.46	43	2344	2.516	ug/l #	52
81) trans-1,4-Dichloro-2-buten	11.97	75	504	2.092	ug/l #	1
86) p-Isopropyltoluene	12.54	119	10150	2.433	ug/l	89
95) Naphthalene	14.52	128	5216	2.240	ug/l #	95

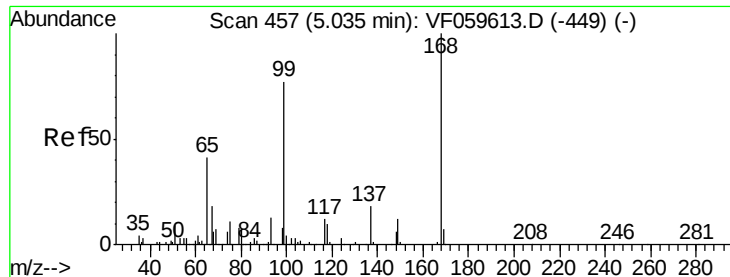
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.00 min

Lab File: VF059622.D

Acq: 23 Jul 2018 19:04

Instrument :

MSVOA_F

ClientSampleId :

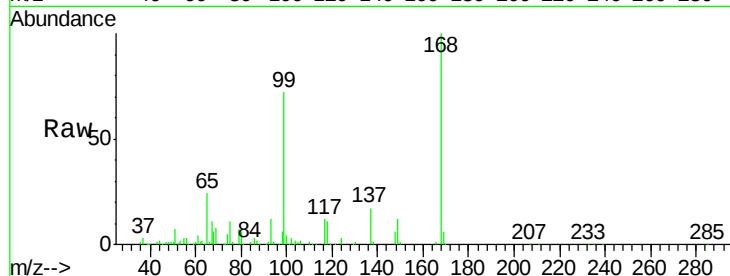
GL-TOPSOIL-02

Tgt Ion:168 Resp: 228717

Ion Ratio Lower Upper

168 100

99 72.4 61.5 92.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

80000

60000

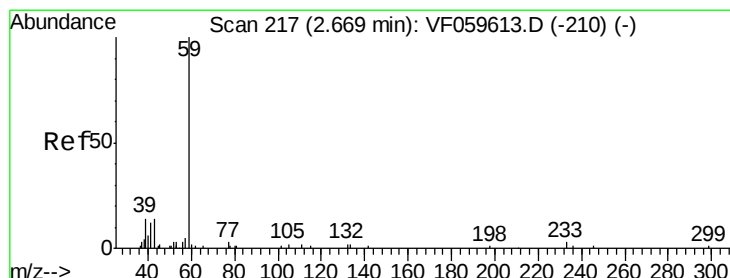
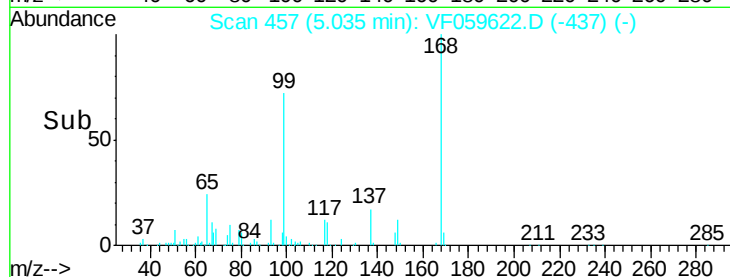
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#11

Tert butyl alcohol

Concen: 19.052 ug/l

RT: 2.68 min Scan# 218

Delta R.T. 0.01 min

Lab File: VF059622.D

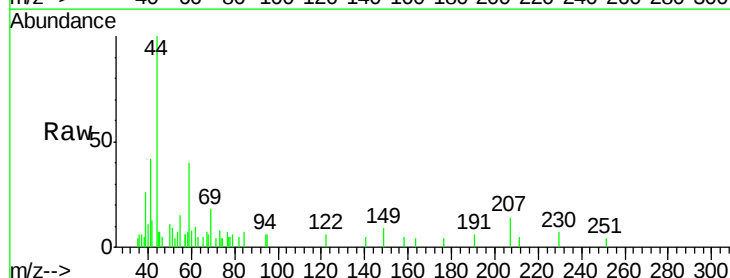
Acq: 23 Jul 2018 19:04

Tgt Ion: 59 Resp: 2791

Ion Ratio Lower Upper

59 100

57 29.5 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

1200

1000

800

600

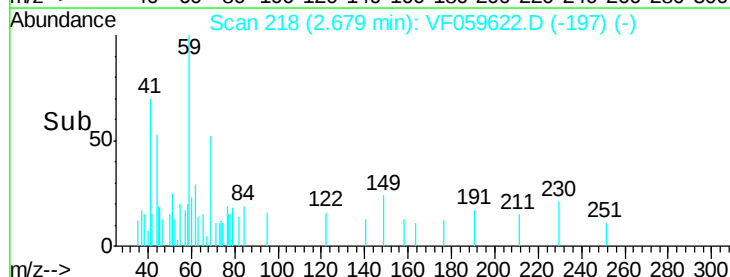
400

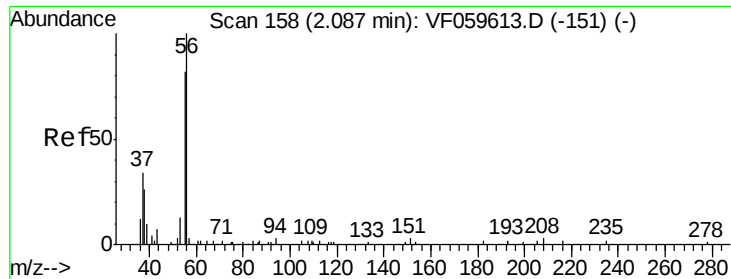
200

0

Time-->

2.60 2.65 2.70 2.75





#13

Acrolein

Concen: 6.711 ug/l

RT: 2.04 min Scan# 153

Delta R.T. -0.05 min

Lab File: VF059622.D

Acq: 23 Jul 2018 19:04

Instrument :

MSVOA_F

ClientSampled :

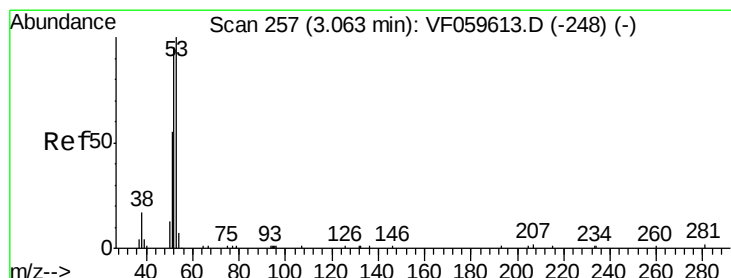
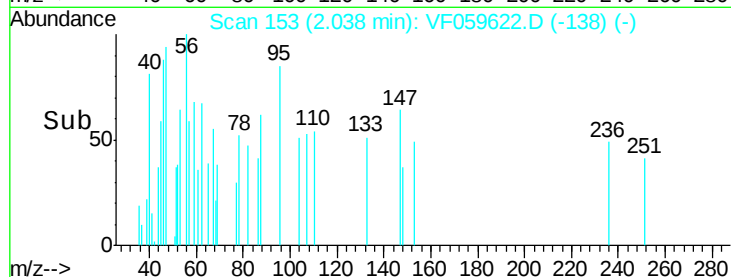
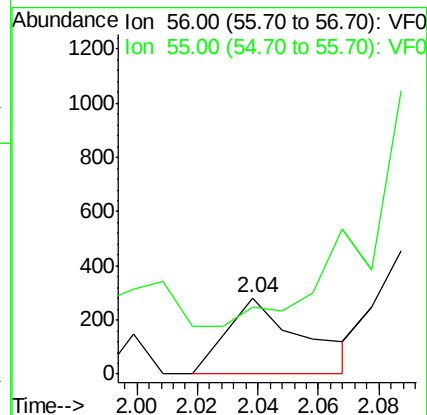
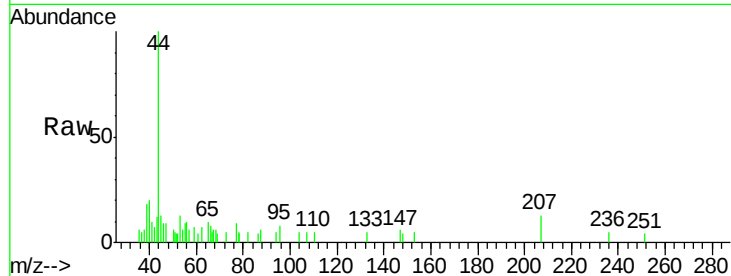
GL-TOPSOIL-02

Tgt Ion: 56 Resp: 493

Ion Ratio Lower Upper

56 100

55 87.2 65.6 98.4



#15

Acrylonitrile

Concen: 2.686 ug/l

RT: 3.07 min Scan# 258

Delta R.T. 0.01 min

Lab File: VF059622.D

Acq: 23 Jul 2018 19:04

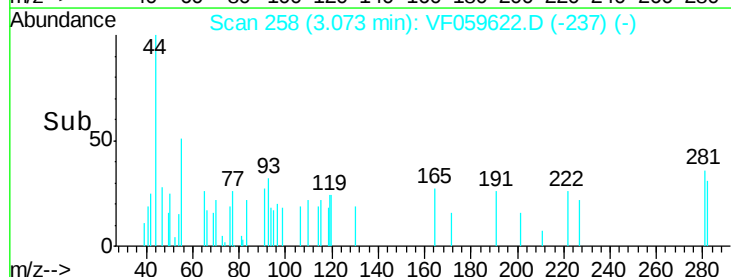
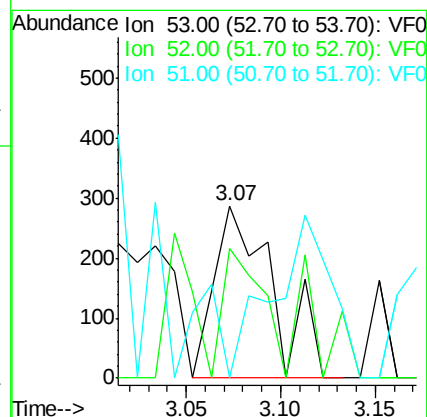
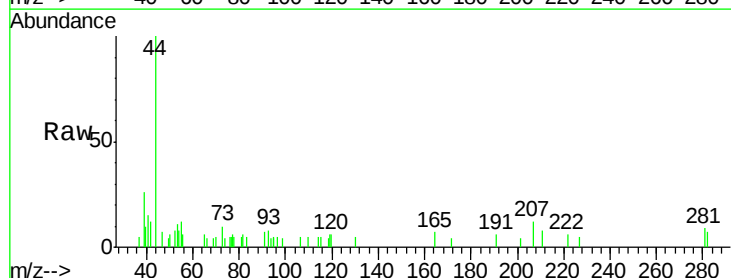
Tgt Ion: 53 Resp: 607

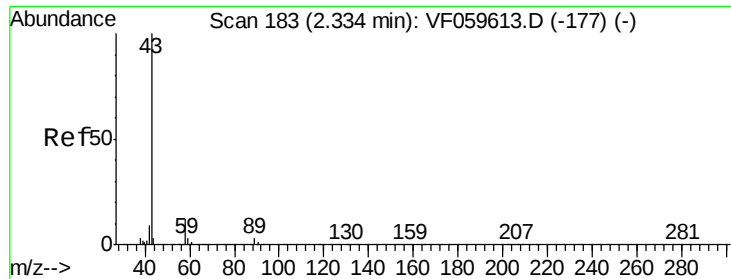
Ion Ratio Lower Upper

53 100

52 75.6 76.2 114.2#

51 0.0 45.8 68.8#





#16

Acetone

Concen: 20.584 ug/l

RT: 2.34 min Scan# 184

Delta R.T. 0.01 min

Lab File: VF059622.D

Acq: 23 Jul 2018 19:04

Instrument :

MSVOA_F

ClientSampleId :

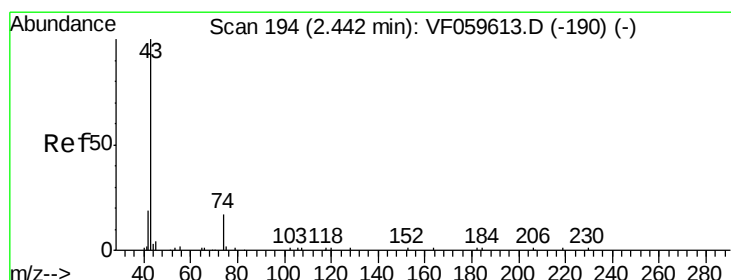
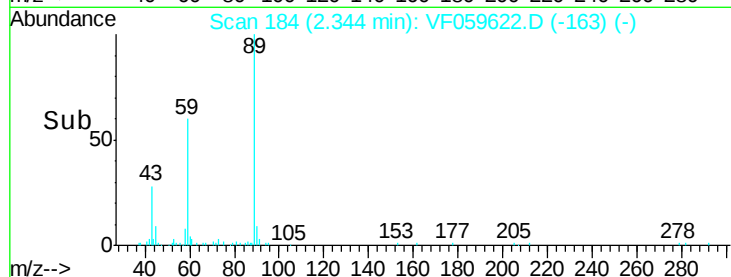
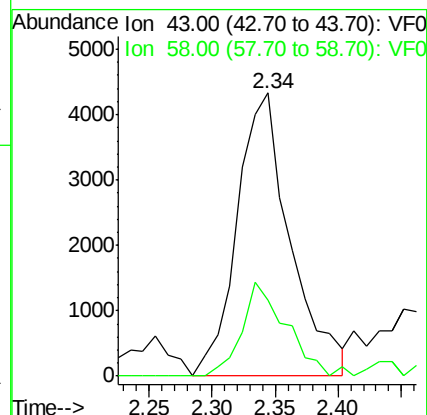
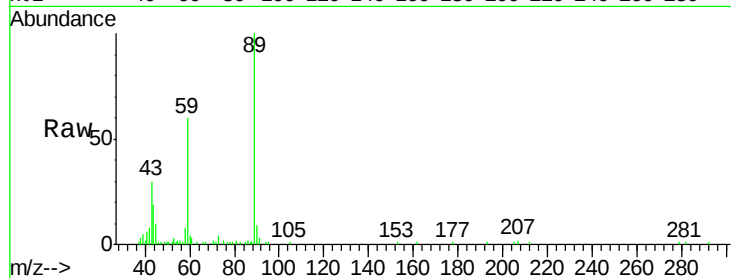
GL-TOPSOIL-02

Tgt Ion: 43 Resp: 12702

Ion Ratio Lower Upper

43 100

58 26.8 9.8 14.8#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.45 min Scan# 195

Delta R.T. 0.01 min

Lab File: VF059622.D

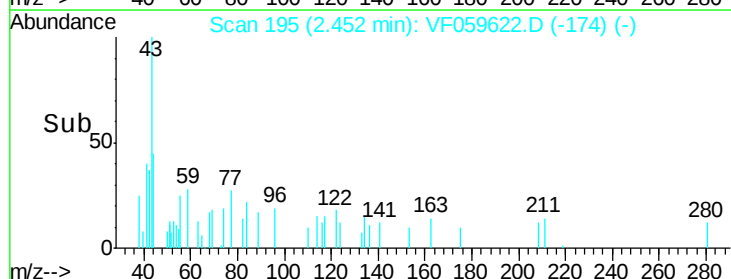
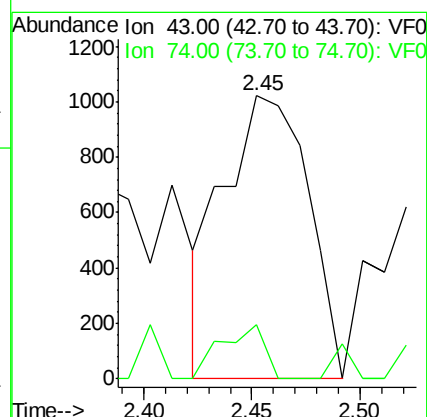
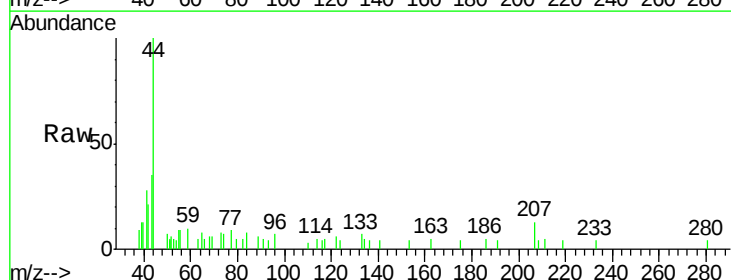
Acq: 23 Jul 2018 19:04

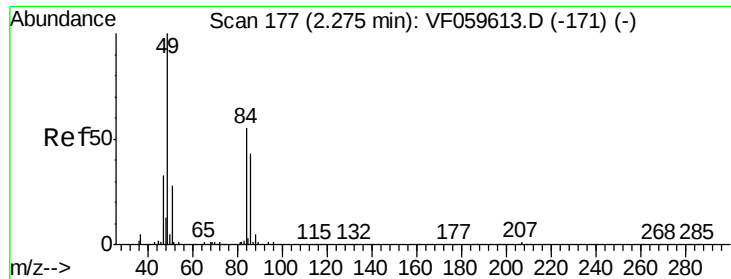
Tgt Ion: 43 Resp: 2780

Ion Ratio Lower Upper

43 100

74 19.1 11.4 17.0#

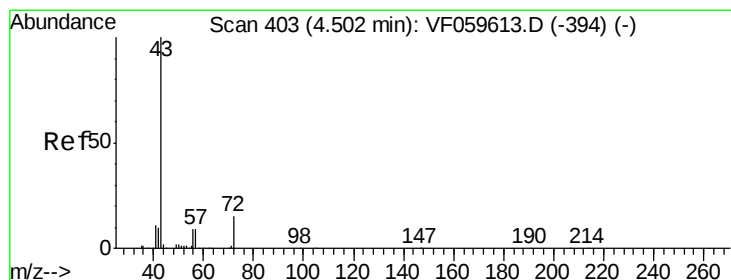
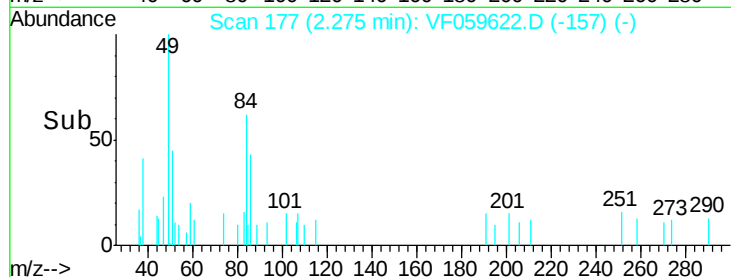
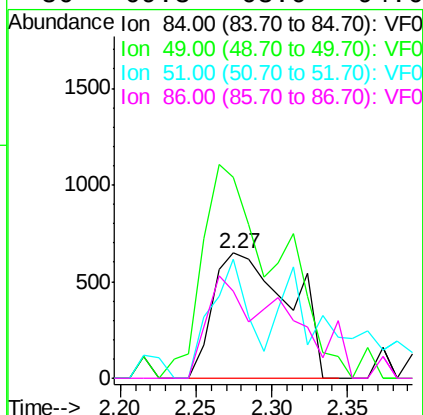
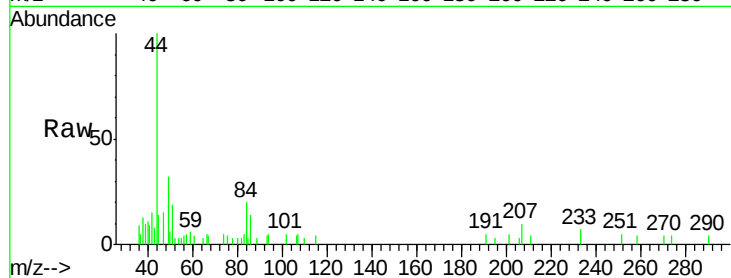




#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 177
Delta R.T. 0.00 min
Lab File: VF059622.D
Acq: 23 Jul 2018 19:04

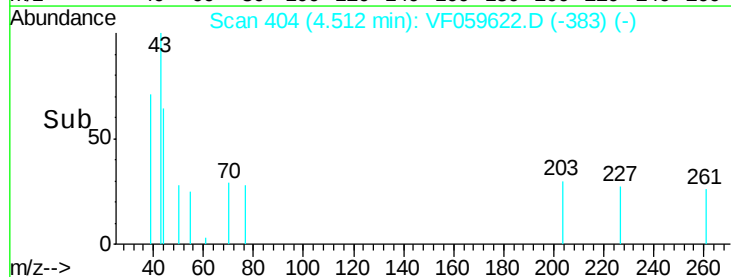
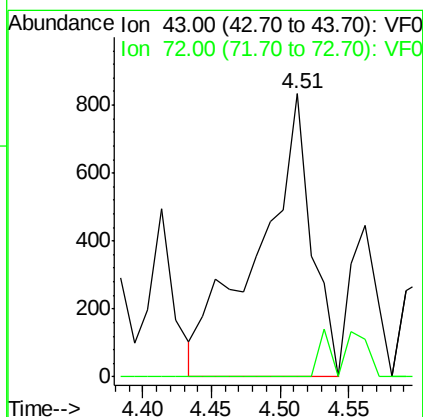
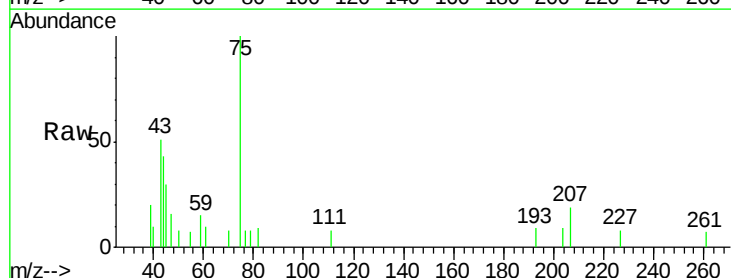
Instrument :
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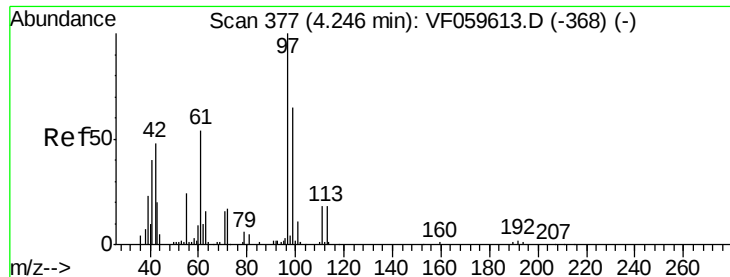
Tgt Ion: 84 Resp: 2260
Ion Ratio Lower Upper
84 100
49 160.3 148.6 222.8
51 95.1 42.7 64.1#
86 69.3 63.0 94.6



#25
2-Butanone
Concen: 3.485 ug/l
RT: 4.51 min Scan# 404
Delta R.T. 0.01 min
Lab File: VF059622.D
Acq: 23 Jul 2018 19:04

Tgt Ion: 43 Resp: 2217
Ion Ratio Lower Upper
43 100
72 0.0 12.9 19.3#

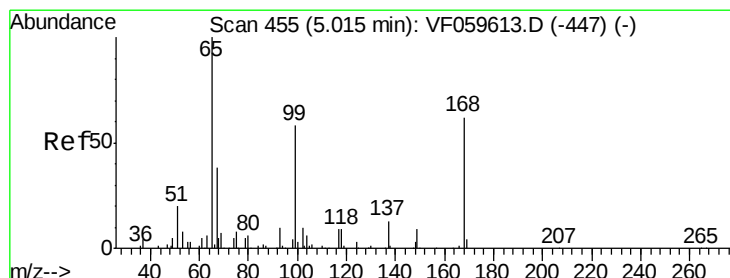
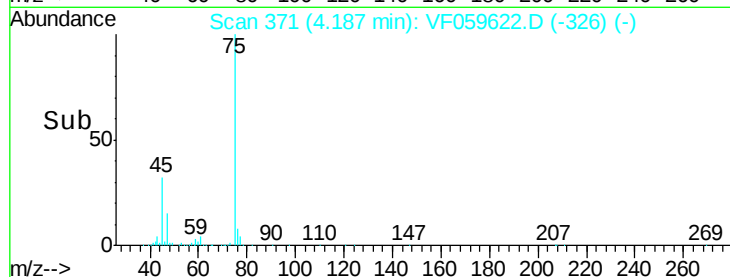
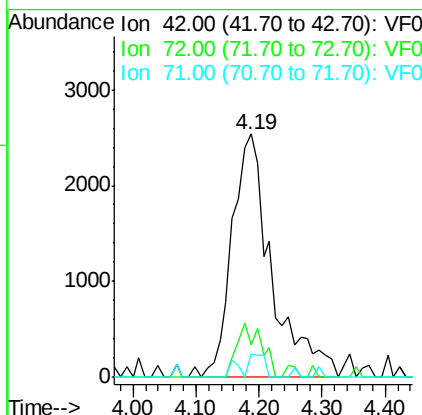
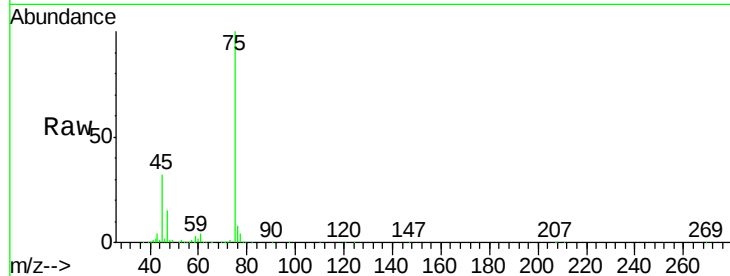




#29
Tetrahydrofuran
Concen: 43.171 ug/l
RT: 4.19 min Scan# 371
Delta R.T. -0.06 min
Lab File: VF059622.D
Acq: 23 Jul 2018 19:04

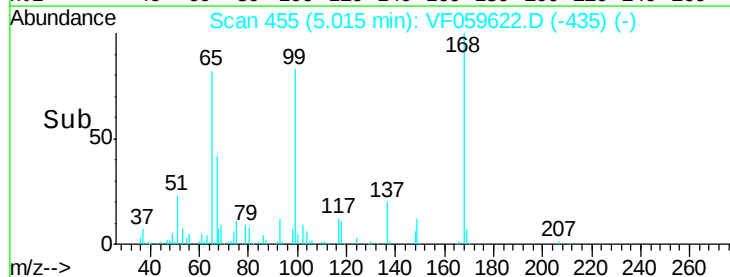
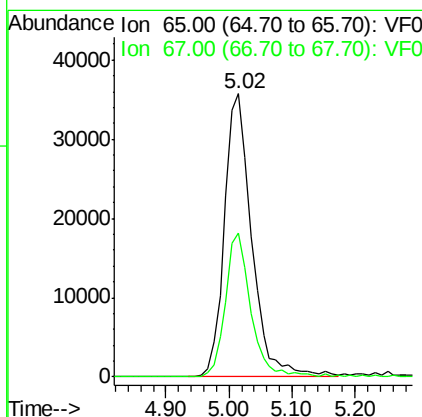
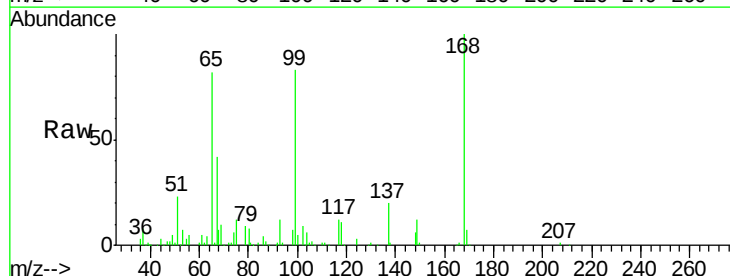
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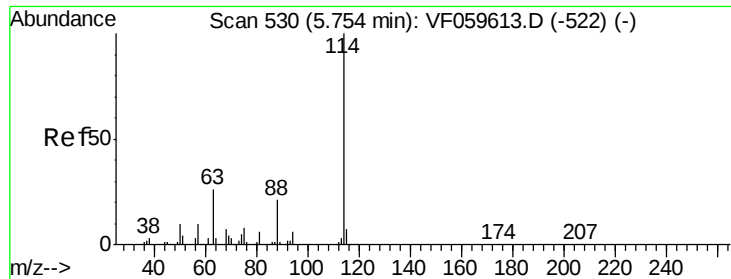
Tgt Ion: 42 Resp: 11128
Ion Ratio Lower Upper
42 100
72 13.5 27.9 41.9#
71 3.8 29.3 43.9#



#33
1,2-Dichloroethane-d4
Concen: 29.831 ug/l
RT: 5.02 min Scan# 455
Delta R.T. 0.00 min
Lab File: VF059622.D
Acq: 23 Jul 2018 19:04

Tgt Ion: 65 Resp: 107365
Ion Ratio Lower Upper
65 100
67 50.6 0.0 83.8

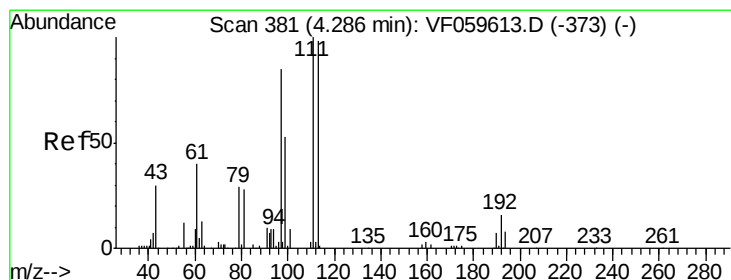
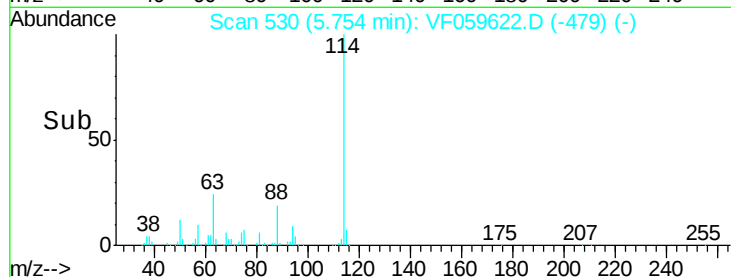
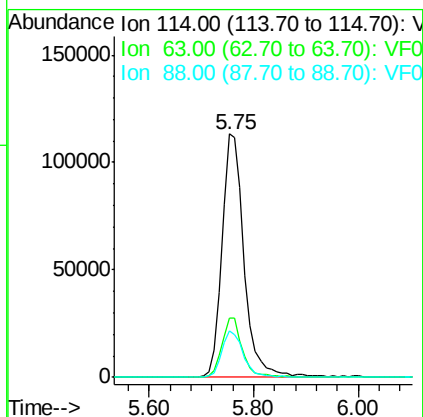
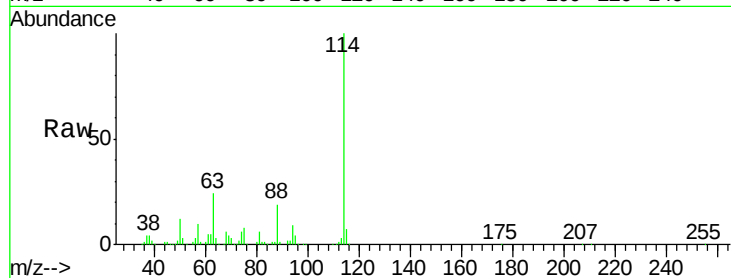




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.75 min Scan# 530
 Delta R.T. 0.00 min
 Lab File: VF059622.D
 Acq: 23 Jul 2018 19:04

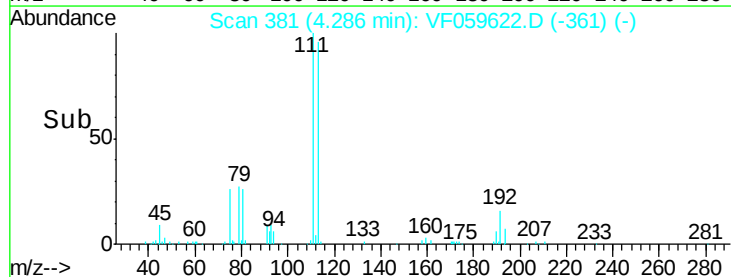
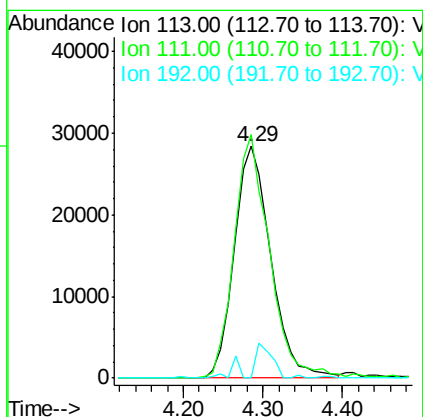
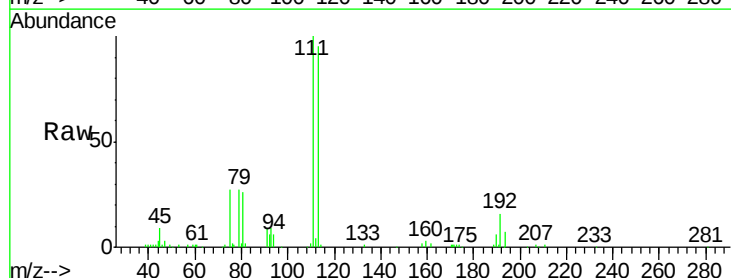
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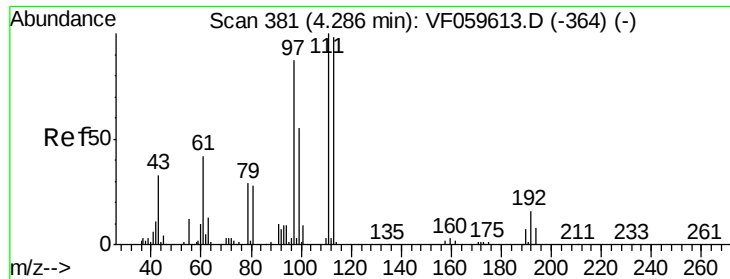
Tgt Ion:114 Resp: 333007
 Ion Ratio Lower Upper
 114 100
 63 24.3 0.0 51.8
 88 19.0 0.0 42.8



#35
 Dibromofluoromethane
 Concen: 29.436 ug/l
 RT: 4.29 min Scan# 381
 Delta R.T. 0.00 min
 Lab File: VF059622.D
 Acq: 23 Jul 2018 19:04

Tgt Ion:113 Resp: 90441
 Ion Ratio Lower Upper
 113 100
 111 105.0 81.5 122.3
 192 0.0 13.4 20.2#

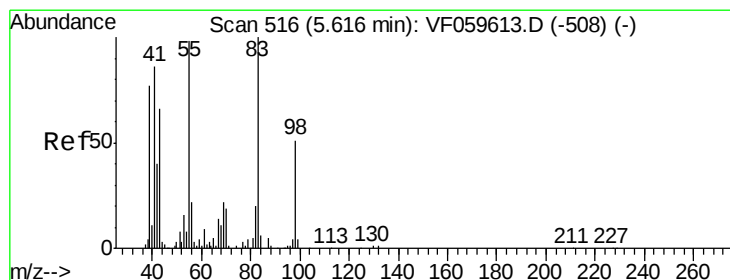
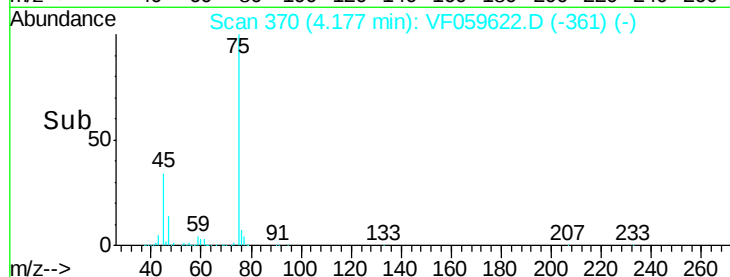
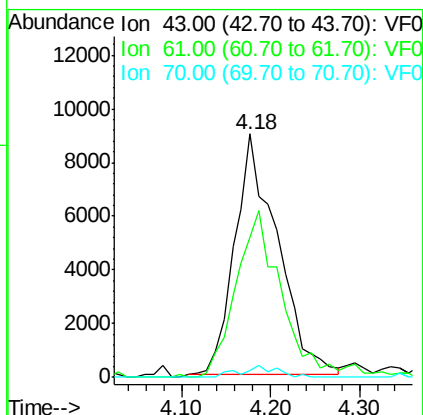
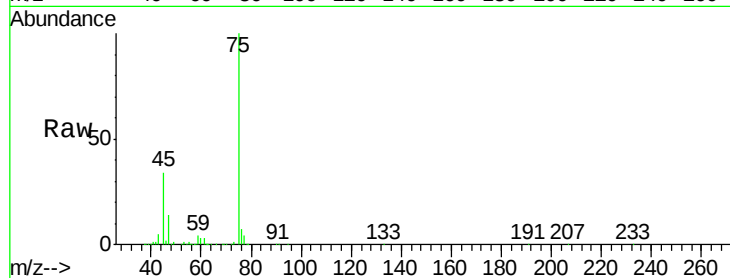




#37
Ethyl Acetate
Concen: 21.851 ug/l
RT: 4.18 min Scan# 370
Delta R.T. -0.11 min
Lab File: VF059622.D
Acq: 23 Jul 2018 19:04

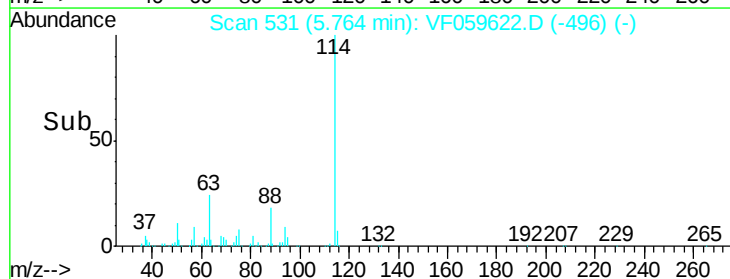
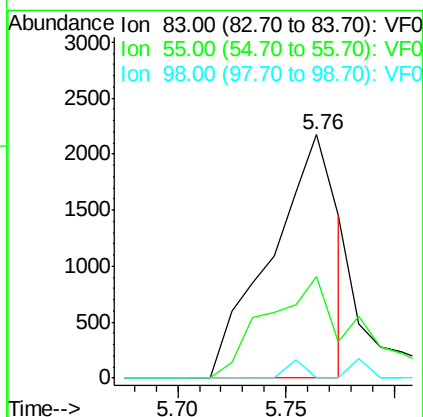
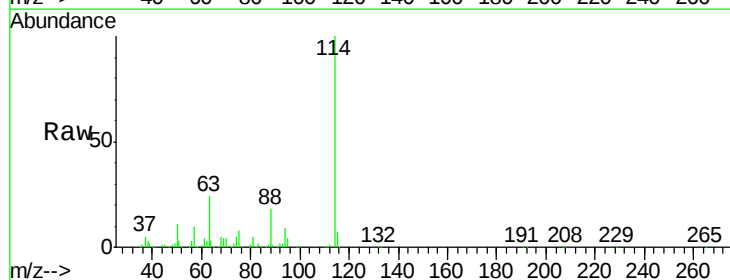
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MSVOA_F
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GL-TOPSOIL-02

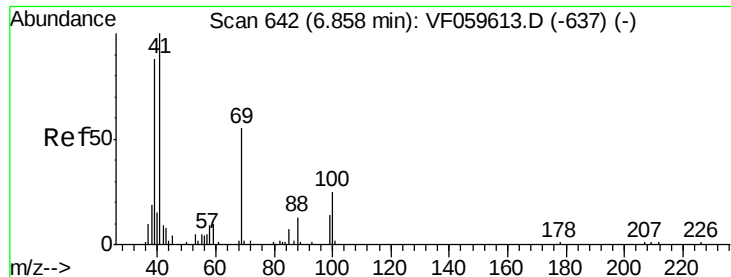
Tgt Ion: 43 Resp: 29625
Ion Ratio Lower Upper
43 100
61 57.4 101.9 152.9#
70 2.6 7.9 11.9#



#39
Methylcyclohexane
Concen: 1.691 ug/l
RT: 5.76 min Scan# 531
Delta R.T. 0.15 min
Lab File: VF059622.D
Acq: 23 Jul 2018 19:04

Tgt Ion: 83 Resp: 4626
Ion Ratio Lower Upper
83 100
55 41.8 78.5 117.7#
98 0.0 41.1 61.7#

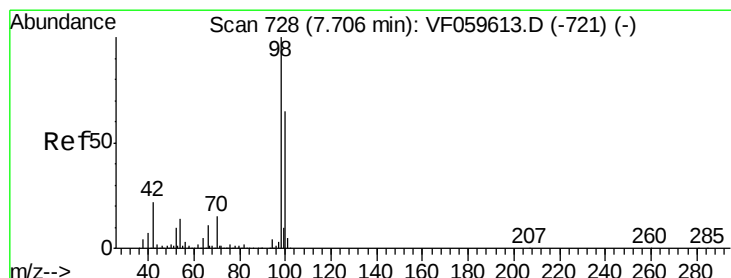
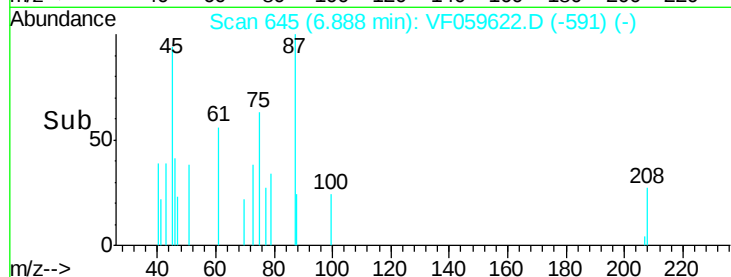
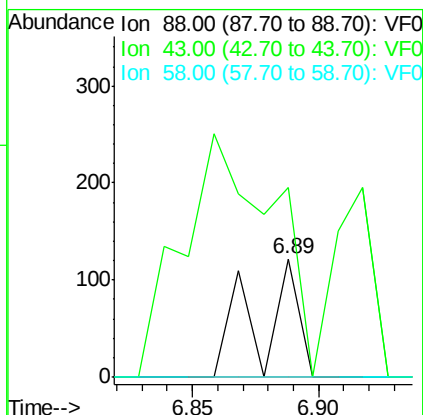
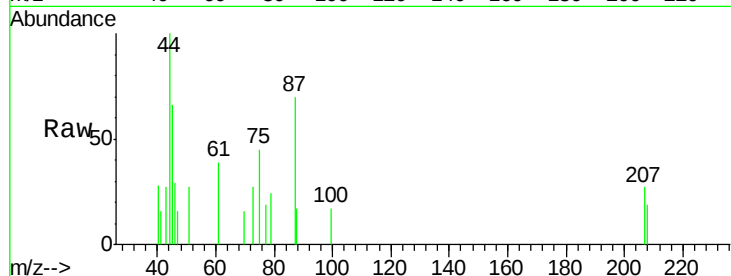




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.89 min Scan# 645
Delta R.T. 0.03 min
Lab File: VF059622.D
Acq: 23 Jul 2018 19:04

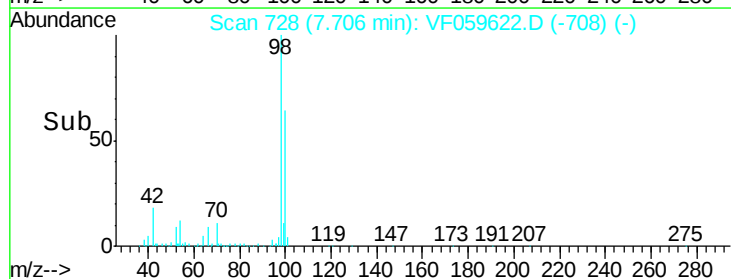
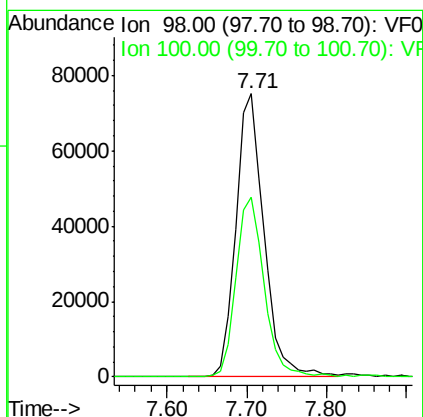
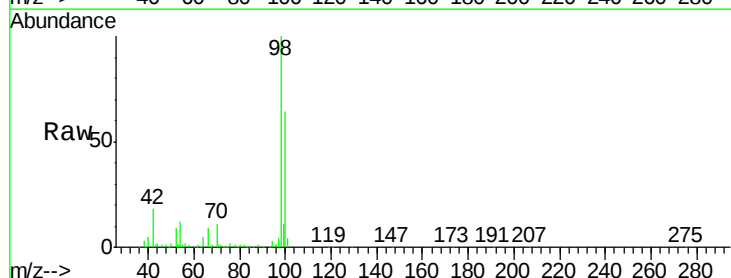
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-02

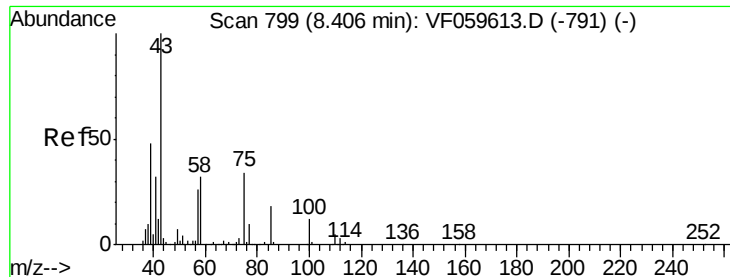
Tgt Ion: 88 Resp: 137
Ion Ratio Lower Upper
88 100
43 159.8 54.2 81.4#
58 0.0 54.3 81.5#



#50
Toluene-d8
Concen: 23.972 ug/l
RT: 7.71 min Scan# 728
Delta R.T. 0.00 min
Lab File: VF059622.D
Acq: 23 Jul 2018 19:04

Tgt Ion: 98 Resp: 184408
Ion Ratio Lower Upper
98 100
100 63.6 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 1.072 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.00 min

Lab File: VF059622.D

Acq: 23 Jul 2018 19:04

Instrument :

MSVOA_F

ClientSampled :

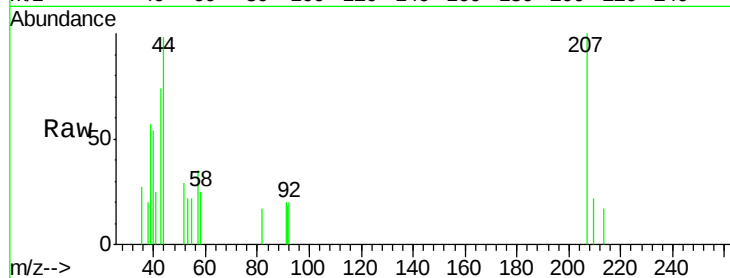
GL-TOPSOIL-02

Tgt Ion: 43 Resp: 1353

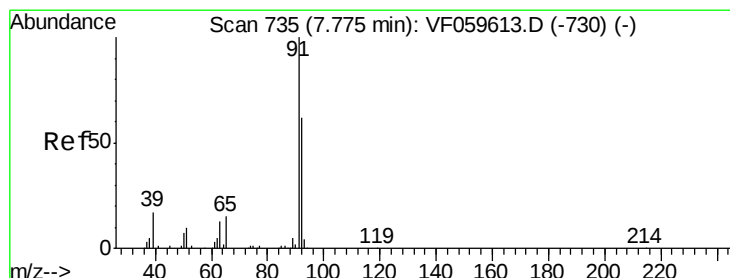
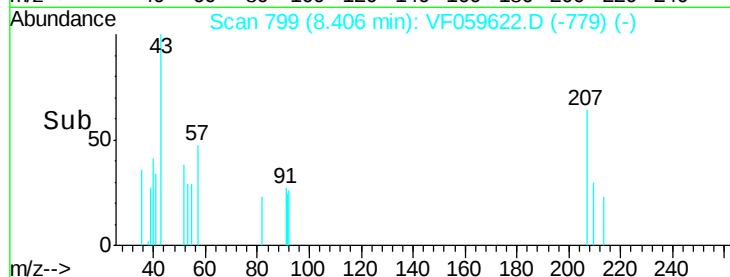
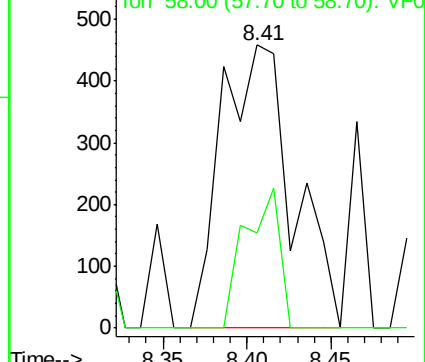
Ion Ratio Lower Upper

43 100

58 33.8 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 1.528 ug/l

RT: 7.76 min Scan# 733

Delta R.T. -0.02 min

Lab File: VF059622.D

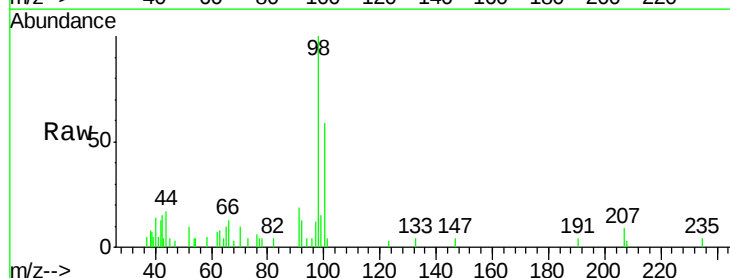
Acq: 23 Jul 2018 19:04

Tgt Ion: 63 Resp: 316

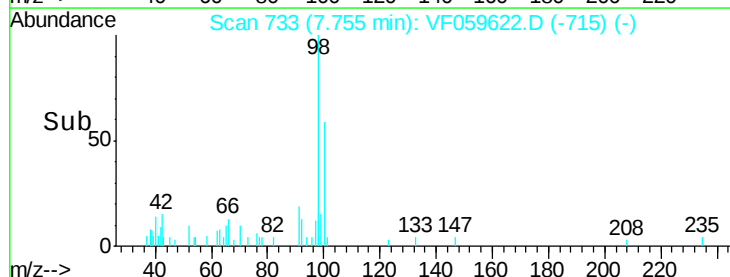
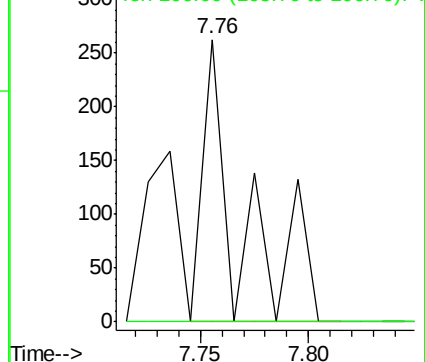
Ion Ratio Lower Upper

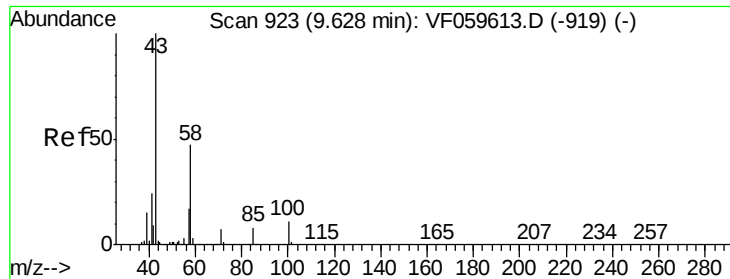
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

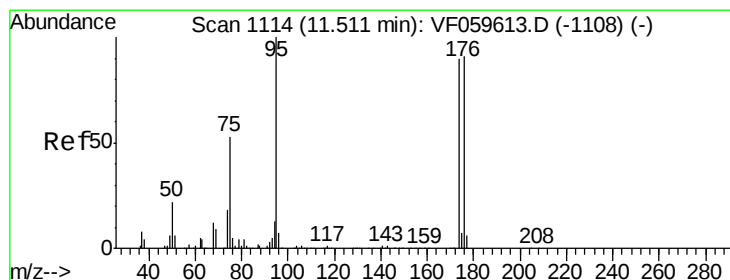
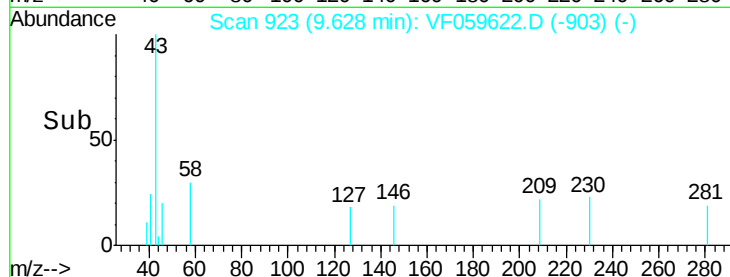
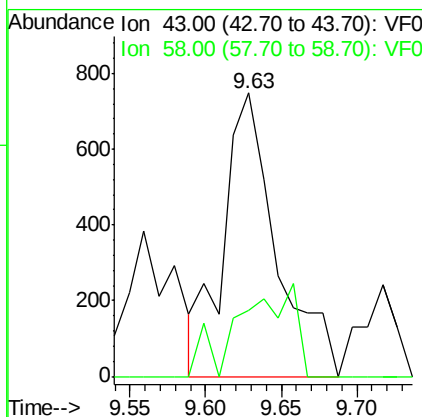
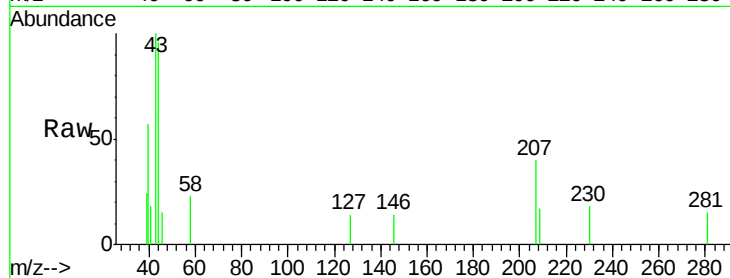




#59
2-Hexanone
Concen: 1.788 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.00 min
Lab File: VF059622.D
Acq: 23 Jul 2018 19:04

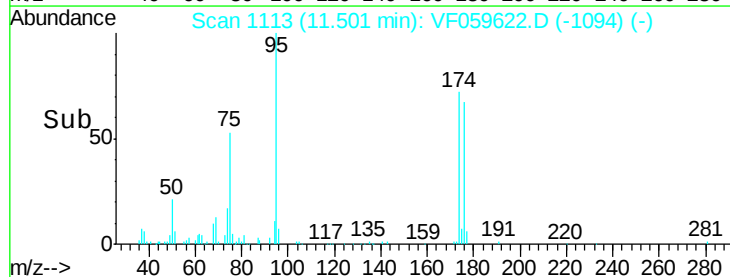
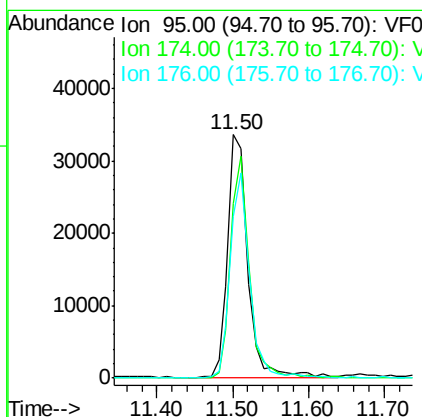
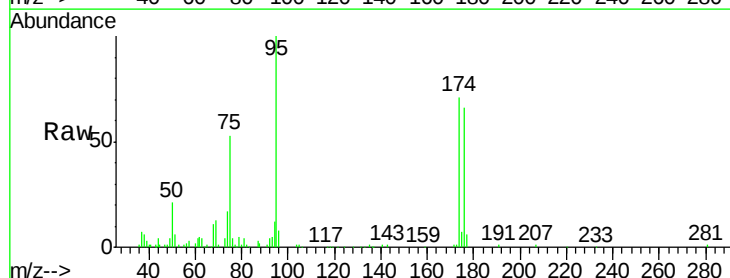
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-02

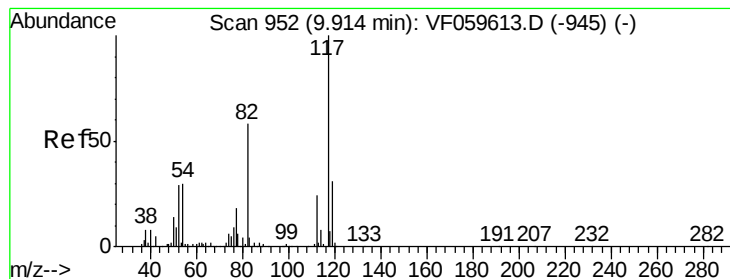
Tgt Ion: 43 Resp: 1832
Ion Ratio Lower Upper
43 100
58 23.1 21.1 63.4



#62
4-Bromofluorobenzene
Concen: 13.896 ug/l
RT: 11.50 min Scan# 1113
Delta R.T. -0.01 min
Lab File: VF059622.D
Acq: 23 Jul 2018 19:04

Tgt Ion: 95 Resp: 61708
Ion Ratio Lower Upper
95 100
174 71.5 0.0 180.6
176 66.5 0.0 182.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.00 min

Lab File: VF059622.D

Acq: 23 Jul 2018 19:04

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-02

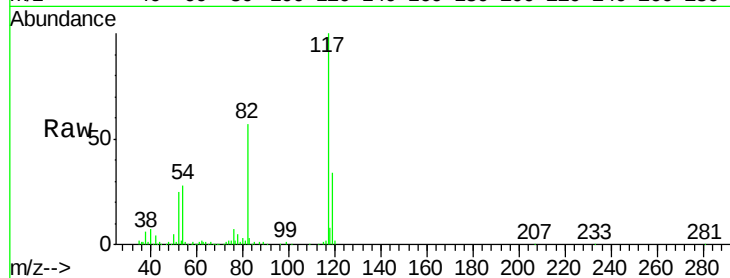
Tgt Ion:117 Resp: 223147

Ion Ratio Lower Upper

117 100

82 56.8 46.5 69.7

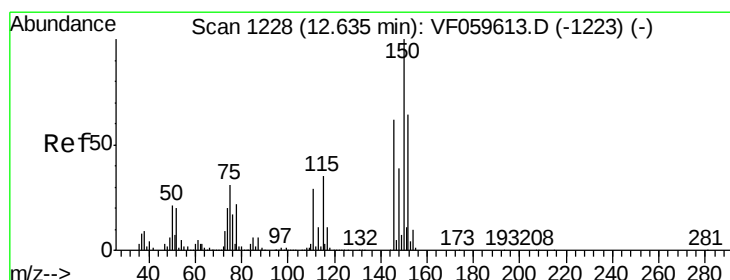
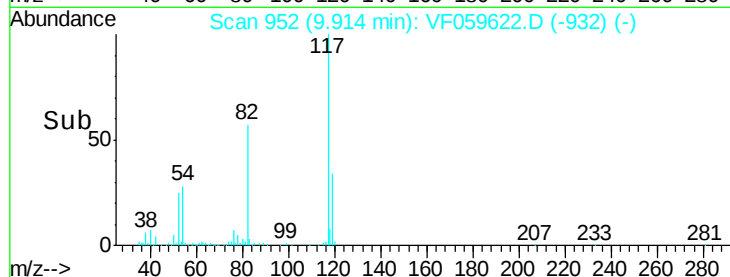
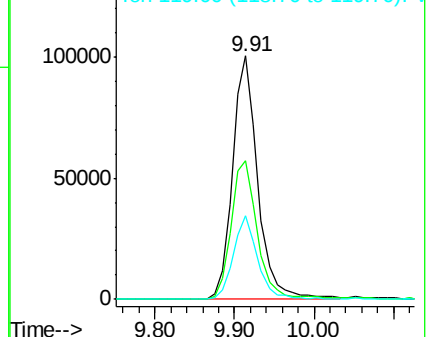
119 34.1 24.4 36.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.62 min Scan# 1227

Delta R.T. -0.01 min

Lab File: VF059622.D

Acq: 23 Jul 2018 19:04

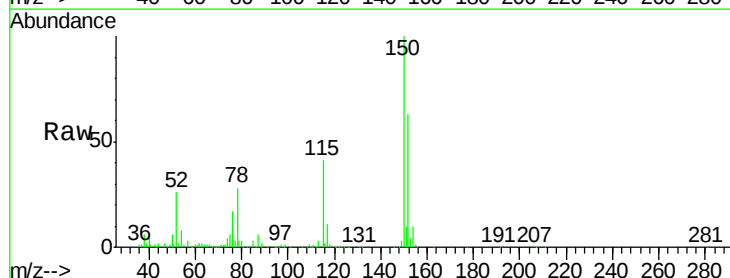
Tgt Ion:152 Resp: 65223

Ion Ratio Lower Upper

152 100

115 63.9 27.8 83.4

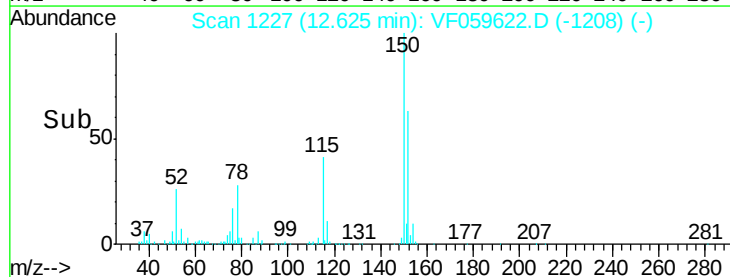
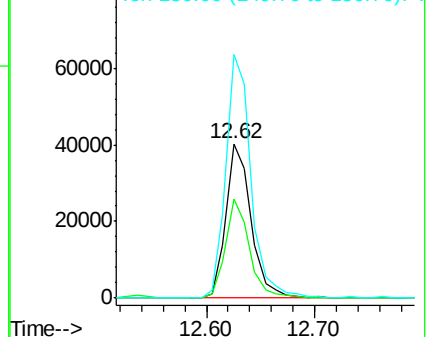
150 157.8 0.0 314.6

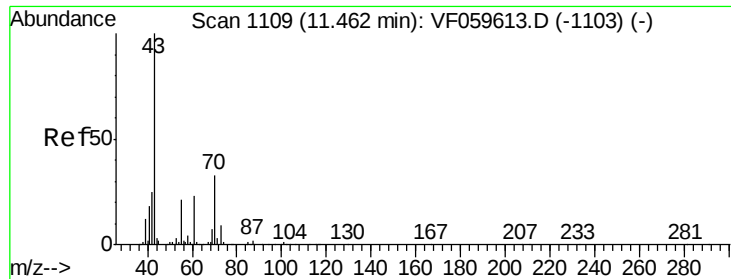


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#74

N-amyI acetate

Concen: 2.516 ug/l

RT: 11.46 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VF059622.D

Acq: 23 Jul 2018 19:04

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-02

Tgt Ion: 43 Resp: 2344

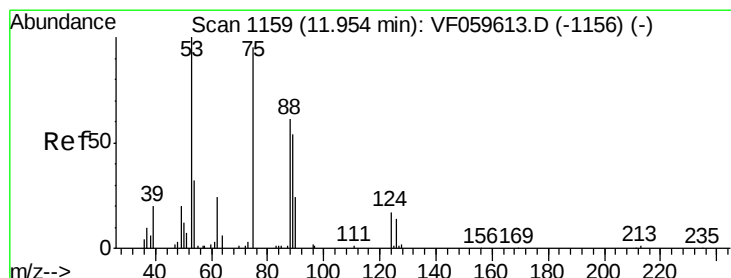
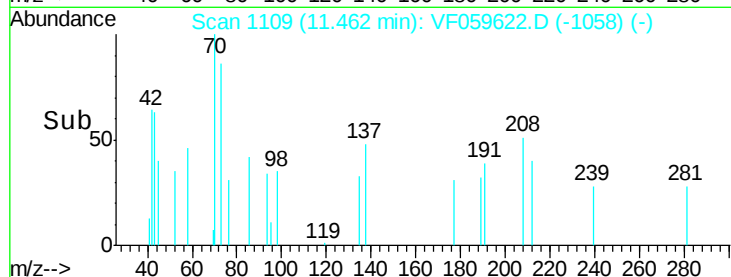
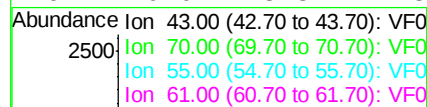
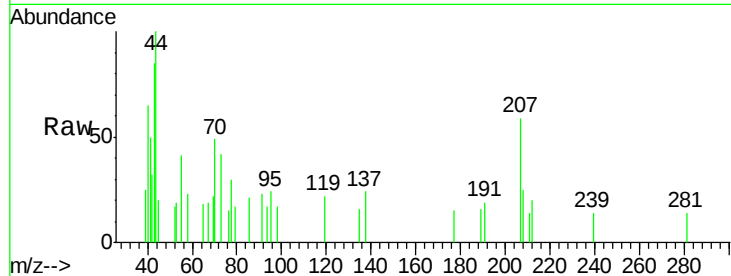
Ion Ratio Lower Upper

43 100

70 57.8 26.6 40.0#

55 48.0 17.0 25.6#

61 0.0 18.3 27.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 2.092 ug/l

RT: 11.97 min Scan# 1161

Delta R.T. 0.02 min

Lab File: VF059622.D

Acq: 23 Jul 2018 19:04

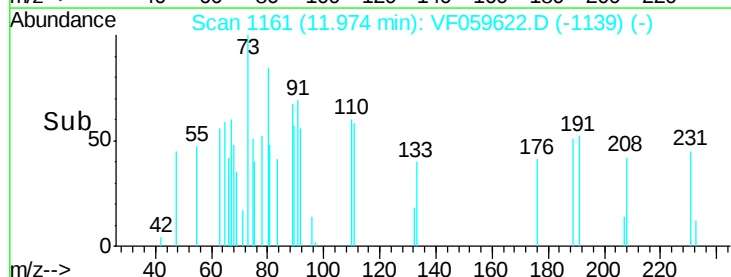
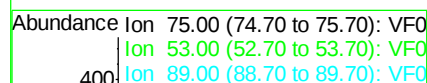
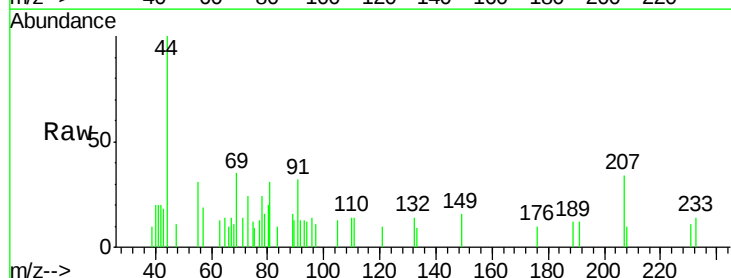
Tgt Ion: 75 Resp: 504

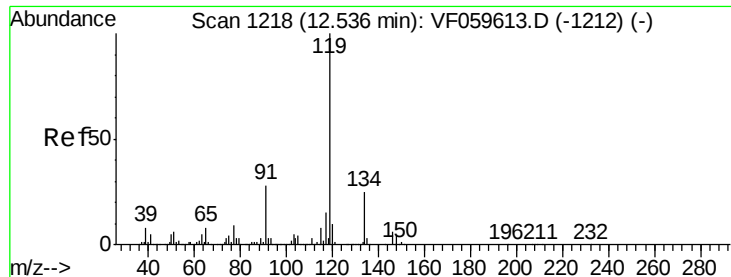
Ion Ratio Lower Upper

75 100

53 0.0 86.4 129.6#

89 136.4 46.8 70.2#

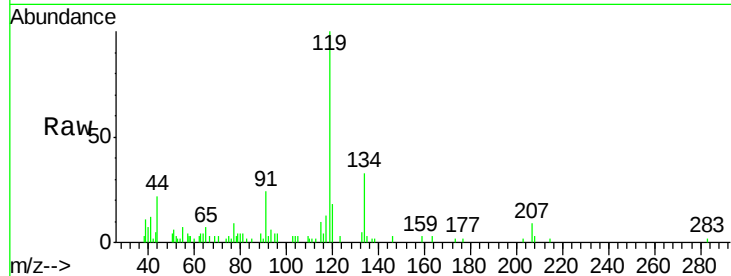




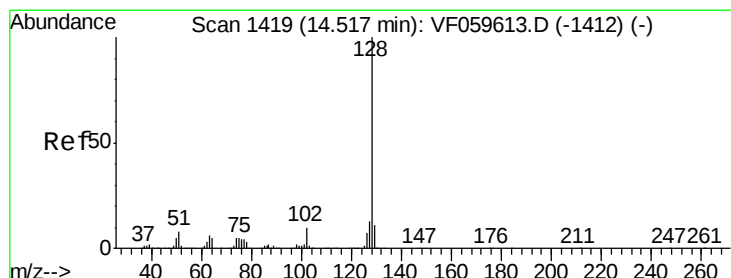
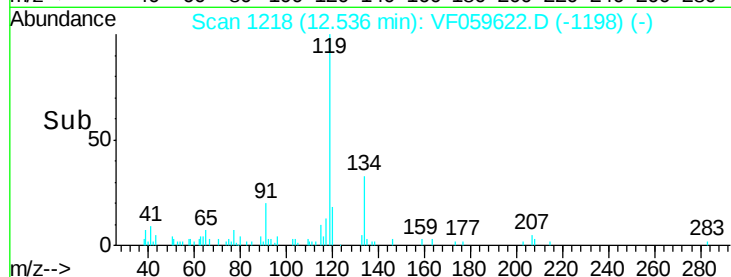
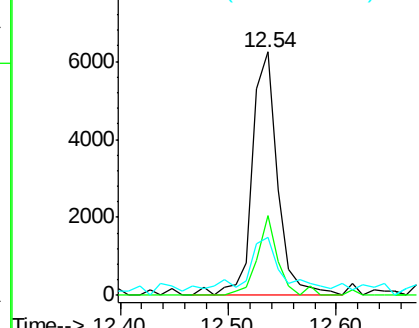
#86
p-Isopropyltoluene
Concen: 2.433 ug/l
RT: 12.54 min Scan# 1218
Delta R.T. 0.00 min
Lab File: VF059622.D
Acq: 23 Jul 2018 19:04

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-02

Tgt Ion	Ratio	Lower	Upper
119	100		
134	32.6	12.4	37.2
91	23.7	13.9	41.7

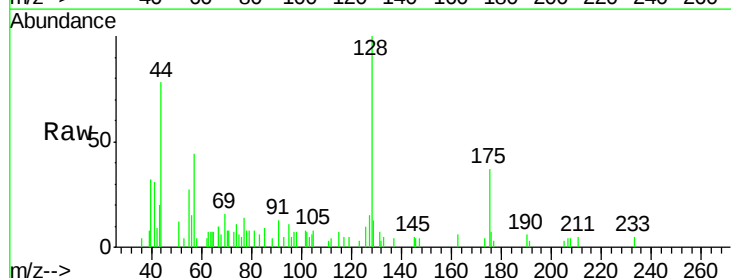


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V



#95
Naphthalene
Concen: 2.240 ug/l
RT: 14.52 min Scan# 1419
Delta R.T. 0.00 min
Lab File: VF059622.D
Acq: 23 Jul 2018 19:04

Tgt Ion	Ratio	Lower	Upper
128	100		
127	15.3	10.2	15.2#
129	12.6	9.1	13.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

