

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF072318\
 Data File : VF059624.D
 Acq On : 23 Jul 2018 19:59
 Operator : VA/AP
 Sample : J4099-04
 Misc : 5.52g/5mL/MSVOA_F/SOIL
 ALS Vial : 95 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-04

Quant Time: Jul 24 04:51:19 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

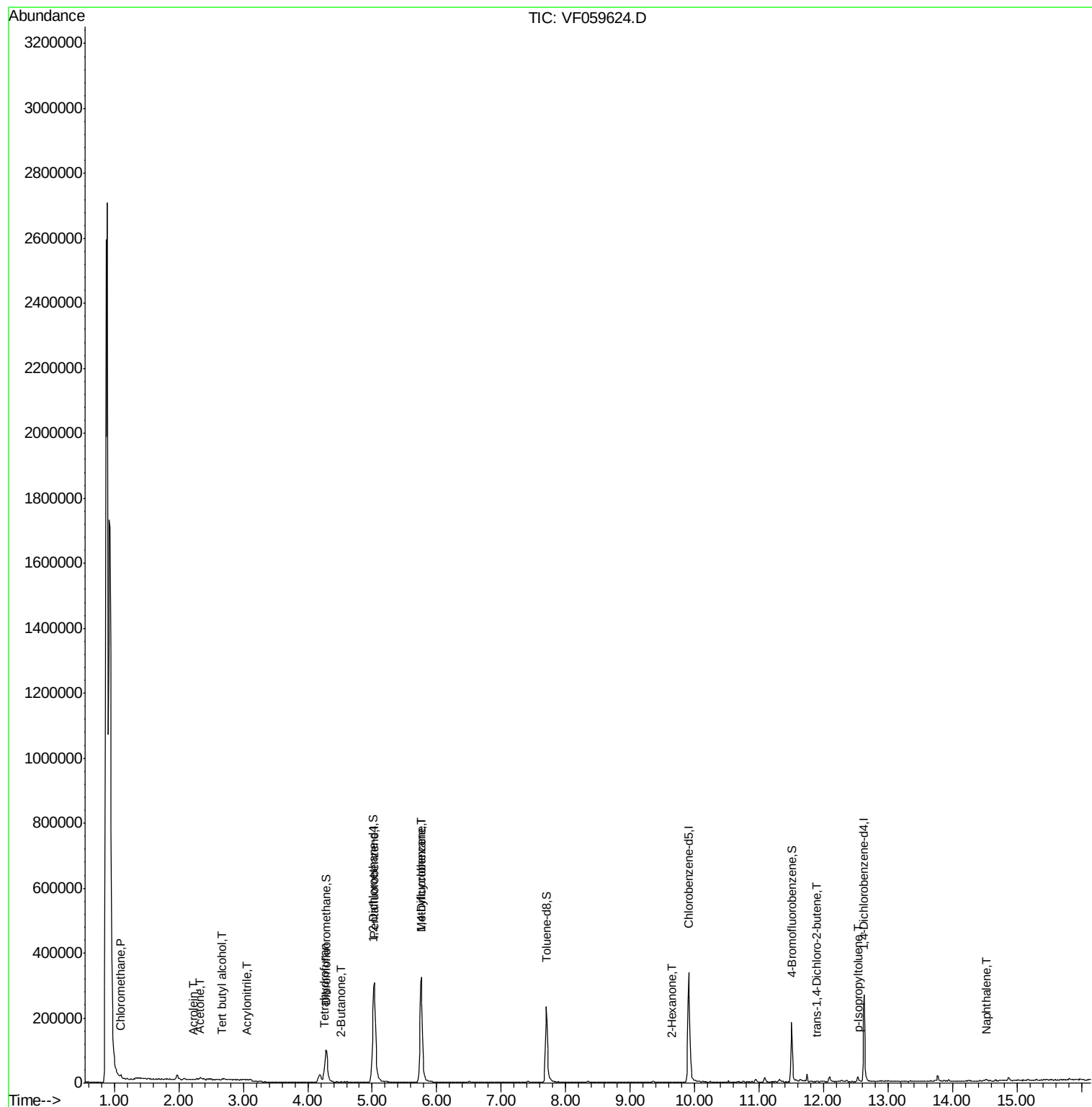
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	230862	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	337826	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	237826	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	68593	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	105668	29.09	ug/l	0.00
Spiked Amount 50.000			Recovery	=	58.18%	
35) Dibromofluoromethane	4.28	113	95429	30.62	ug/l	0.00
Spiked Amount 50.000			Recovery	=	61.24%	
50) Toluene-d8	7.70	98	191329	24.52	ug/l	0.00
Spiked Amount 50.000			Recovery	=	49.04%	
62) 4-Bromofluorobenzene	11.51	95	64098	14.23	ug/l	0.00
Spiked Amount 50.000			Recovery	=	28.46%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.10	50	1413	1.070 ug/l #		45
11) Tert butyl alcohol	2.67	59	505	3.415 ug/l #		72
13) Acrolein	2.23	56	185	2.495 ug/l		92
15) Acrylonitrile	3.06	53	286	1.254 ug/l #		48
16) Acetone	2.33	43	5140	8.252 ug/l #		85
18) Methyl Acetate	2.45	43	1351	Below Cal		100
20) Methylene Chloride	2.28	84	1971	Below Cal #		70
25) 2-Butanone	4.52	43	1773	2.761 ug/l #		85
29) Tetrahydrofuran	4.24	42	557	2.141 ug/l #		67
39) Methylcyclohexane	5.75	83	5537	1.995 ug/l #		42
49) 1,4-Dioxane	6.87	88	63	Below Cal #		14
59) 2-Hexanone	9.63	43	1190	1.145 ug/l		78
81) trans-1,4-Dichloro-2-buten	11.88	75	329	1.298 ug/l #		5
86) p-Isopropyltoluene	12.53	119	7367	1.679 ug/l		88
95) Naphthalene	14.52	128	3047	1.244 ug/l #		92

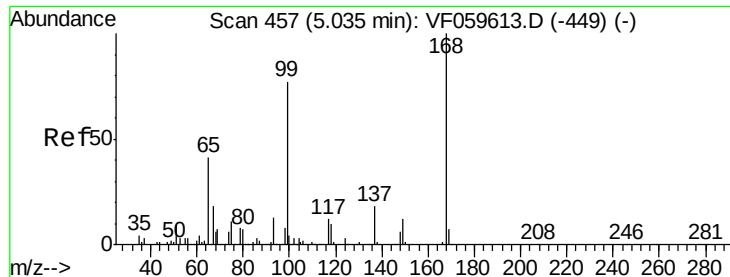
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF072318\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059624.D

Acq: 23 Jul 2018 19:59

Instrument :

MSVOA_F

ClientSampleId :

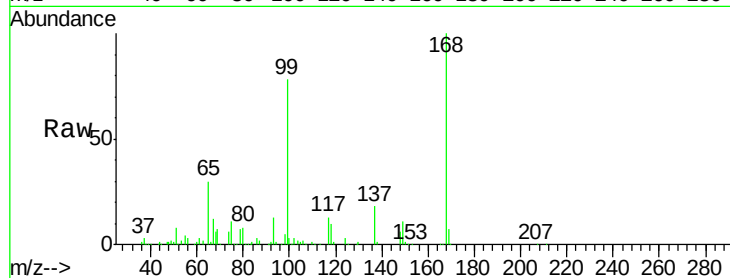
GL-TOPSOIL-04

Tgt Ion:168 Resp: 230862

Ion Ratio Lower Upper

168 100

99 77.8 61.5 92.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

80000

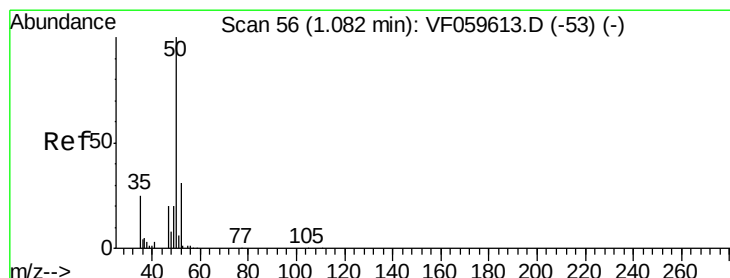
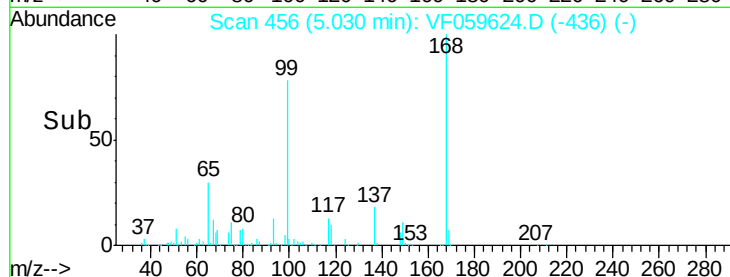
60000

40000

20000

0

Time--> 4.80 4.90 5.00 5.10 5.20



#3

Chloromethane

Concen: 1.070 ug/l

RT: 1.10 min Scan# 57

Delta R.T. 0.02 min

Lab File: VF059624.D

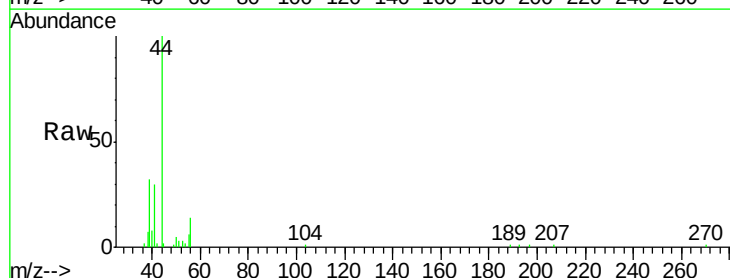
Acq: 23 Jul 2018 19:59

Tgt Ion: 50 Resp: 1413

Ion Ratio Lower Upper

50 100

52 0.0 23.7 35.5#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

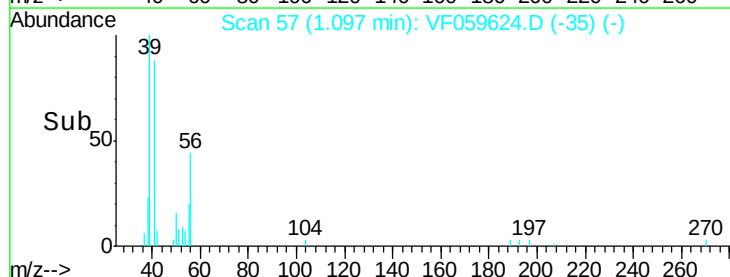
600

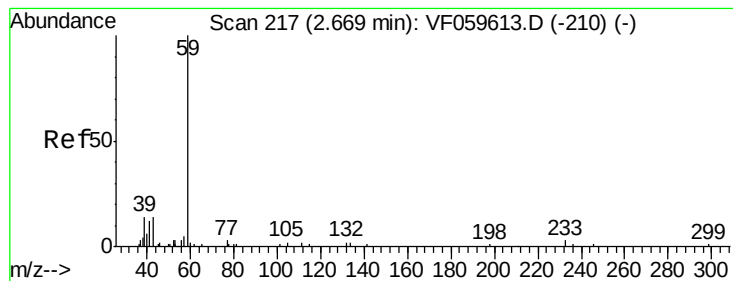
400

200

0

Time--> 1.05 1.10 1.15





#11

Tert butyl alcohol

Concen: 3.415 ug/l

RT: 2.67 min Scan# 217

Delta R.T. 0.01 min

Lab File: VF059624.D

Acq: 23 Jul 2018 19:59

Instrument :

MSVOA_F

ClientSampleId :

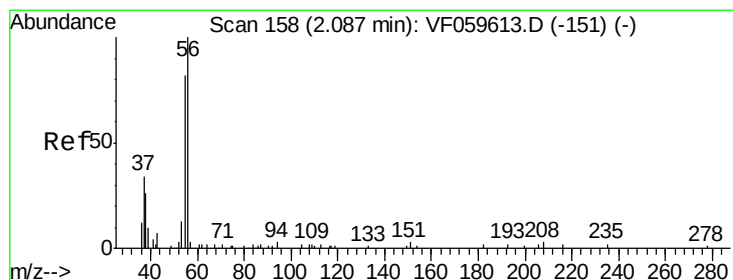
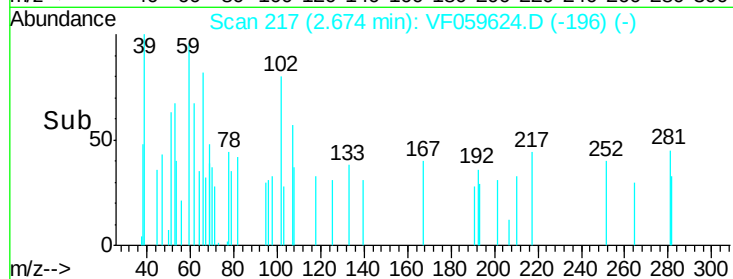
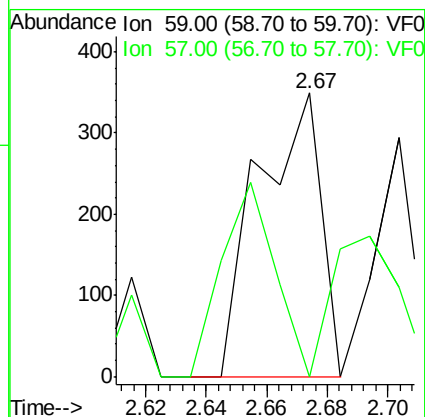
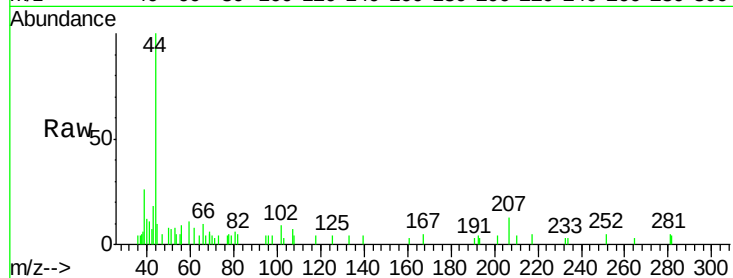
GL-TOPSOIL-04

Tgt Ion: 59 Resp: 505

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



#13

Acrolein

Concen: 2.495 ug/l

RT: 2.23 min Scan# 172

Delta R.T. 0.14 min

Lab File: VF059624.D

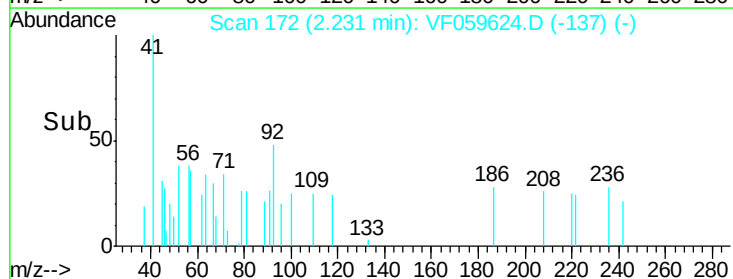
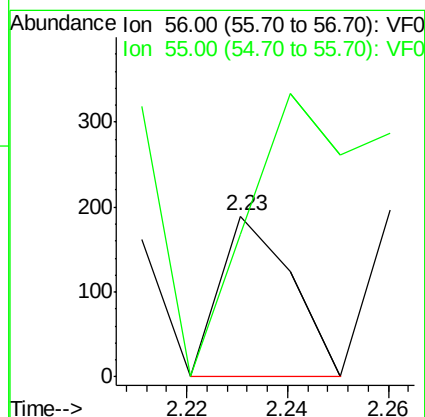
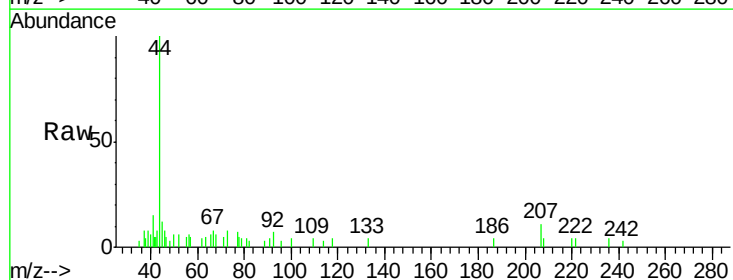
Acq: 23 Jul 2018 19:59

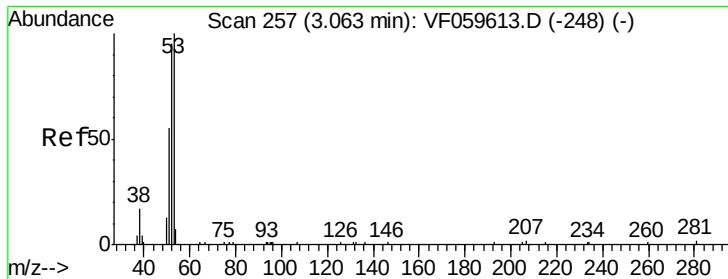
Tgt Ion: 56 Resp: 185

Ion Ratio Lower Upper

56 100

55 88.9 65.6 98.4





#15

Acrylonitrile

Concen: 1.254 ug/l

RT: 3.06 min Scan# 256

Delta R.T. -0.00 min

Lab File: VF059624.D

Acq: 23 Jul 2018 19:59

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-04

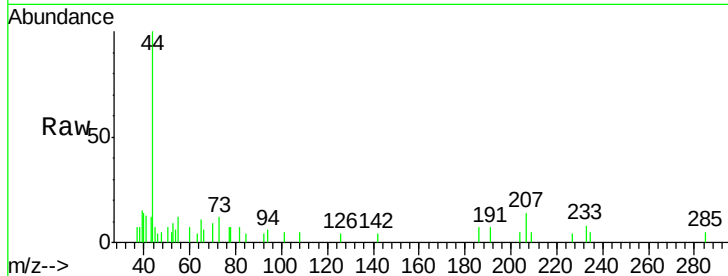
Tgt Ion: 53 Resp: 286

Ion Ratio Lower Upper

53 100

52 59.8 76.2 114.2#

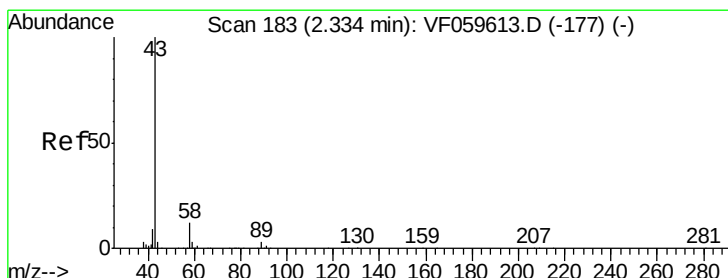
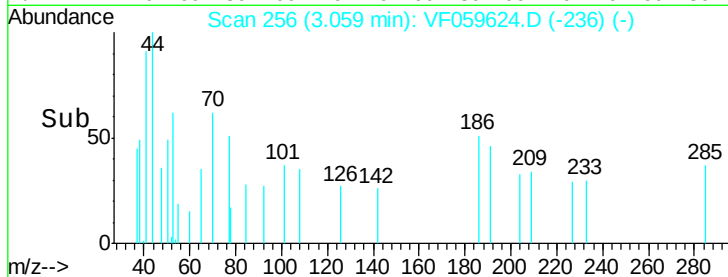
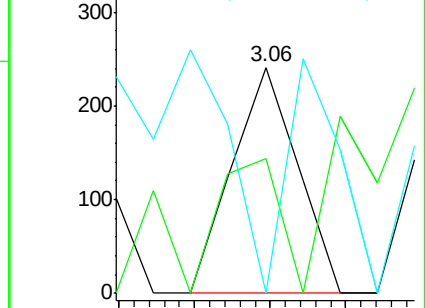
51 0.0 45.8 68.8#



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: 8.252 ug/l

RT: 2.33 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059624.D

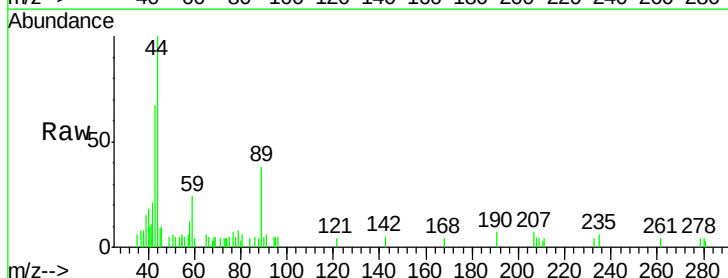
Acq: 23 Jul 2018 19:59

Tgt Ion: 43 Resp: 5140

Ion Ratio Lower Upper

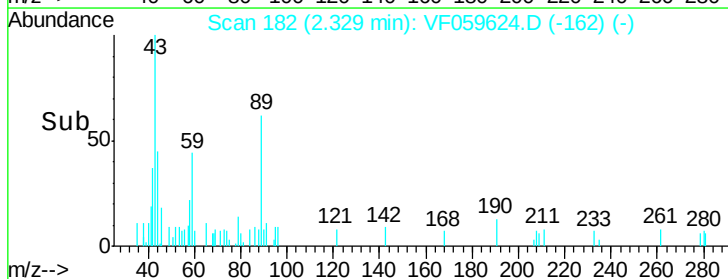
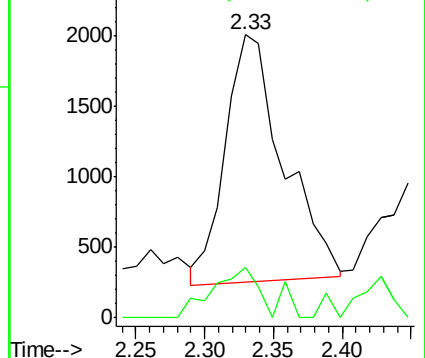
43 100

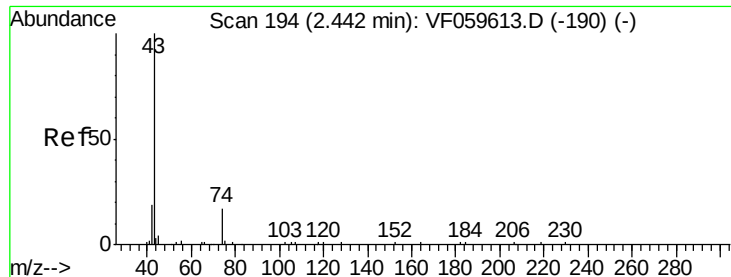
58 18.0 9.8 14.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

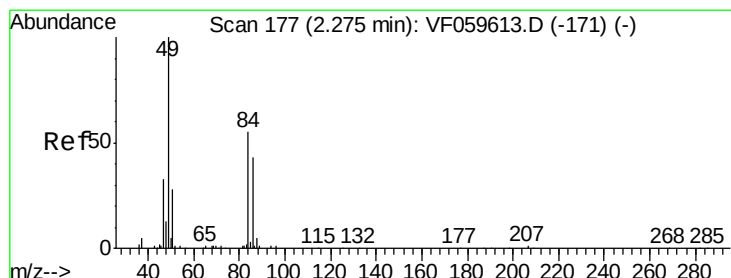
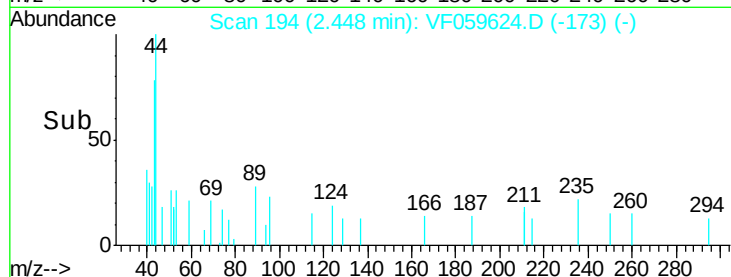
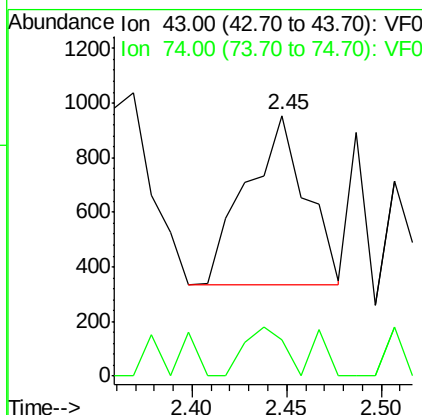
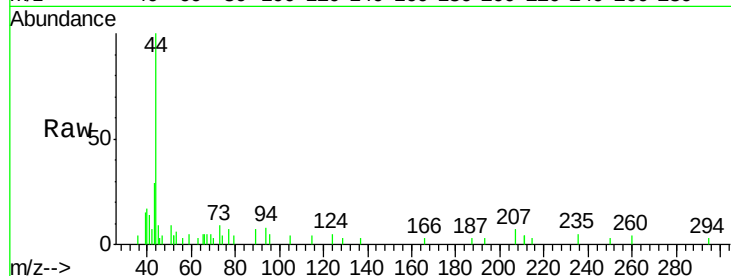




#18
Methyl Acetate
Concen: Below Cal
RT: 2.45 min Scan# 194
Delta R.T. 0.01 min
Lab File: VF059624.D
Acq: 23 Jul 2018 19:59

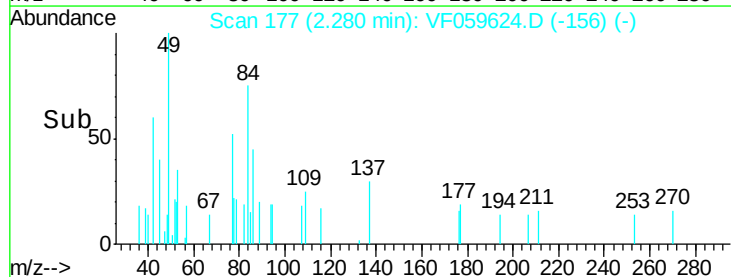
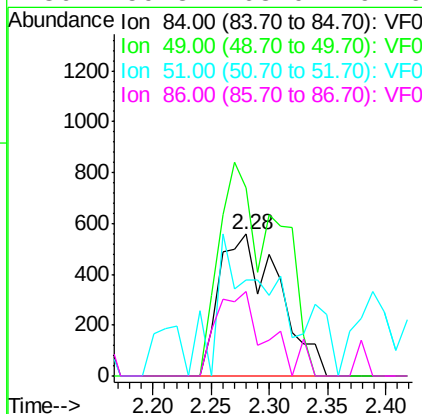
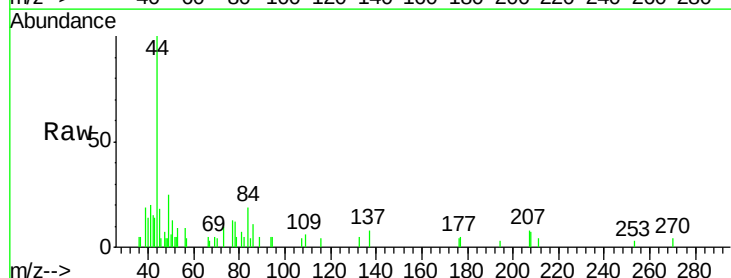
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-04

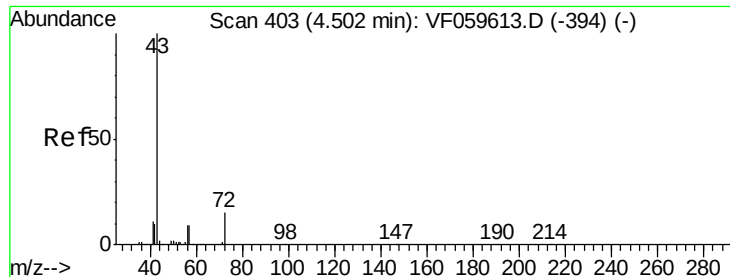
Tgt Ion: 43 Resp: 1351
Ion Ratio Lower Upper
43 100
74 14.1 11.4 17.0



#20
Methylene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 177
Delta R.T. 0.01 min
Lab File: VF059624.D
Acq: 23 Jul 2018 19:59

Tgt Ion: 84 Resp: 1971
Ion Ratio Lower Upper
84 100
49 133.0 148.6 222.8#
51 67.7 42.7 64.1#
86 59.3 63.0 94.6#





#25

2-Butanone

Concen: 2.761 ug/l

RT: 4.52 min Scan# 404

Delta R.T. 0.02 min

Lab File: VF059624.D

Acq: 23 Jul 2018 19:59

Instrument :

MSVOA_F

ClientSampled :

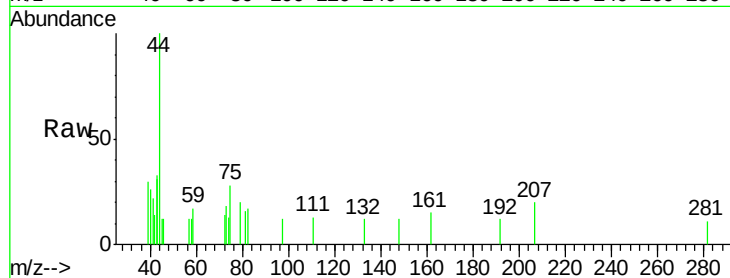
GL-TOPSOIL-04

Tgt Ion: 43 Resp: 1773

Ion Ratio Lower Upper

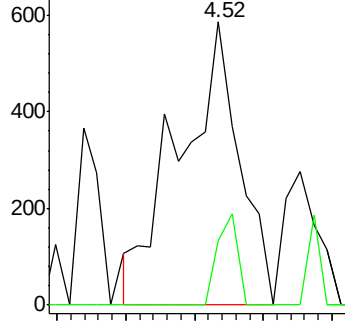
43 100

72 22.5 12.9 19.3#

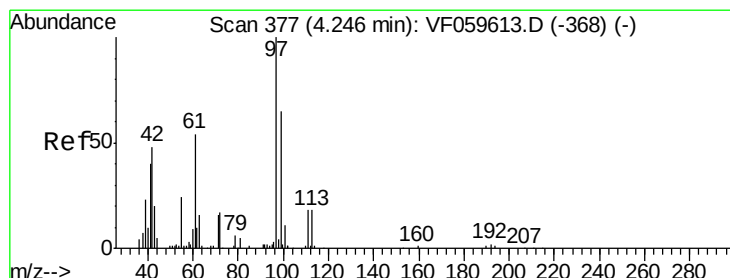
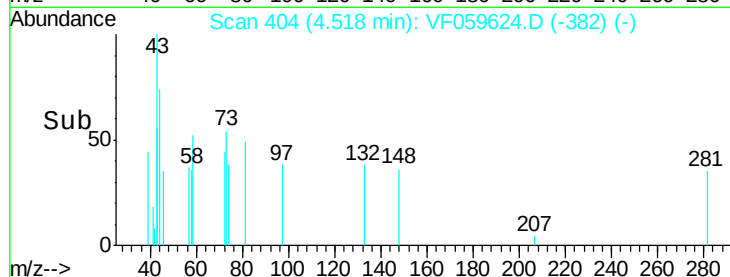


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



Time-->



#29

Tetrahydrofuran

Concen: 2.141 ug/l

RT: 4.24 min Scan# 376

Delta R.T. -0.00 min

Lab File: VF059624.D

Acq: 23 Jul 2018 19:59

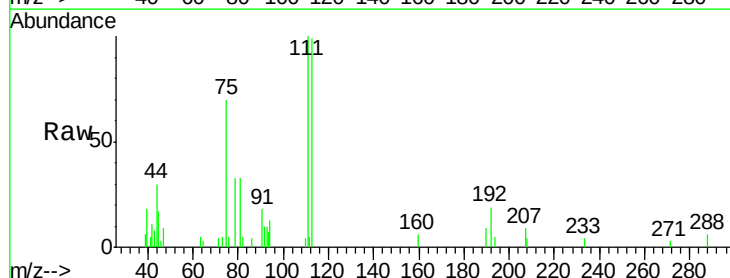
Tgt Ion: 42 Resp: 557

Ion Ratio Lower Upper

42 100

72 18.7 27.9 41.9#

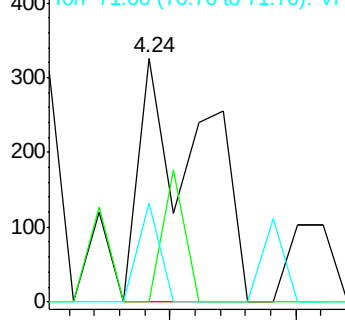
71 14.0 29.3 43.9#



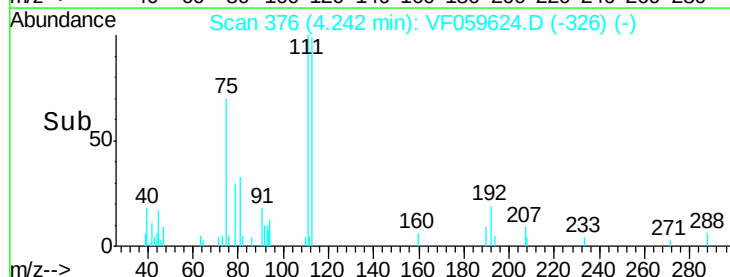
Abundance Ion 42.00 (41.70 to 42.70): VF0

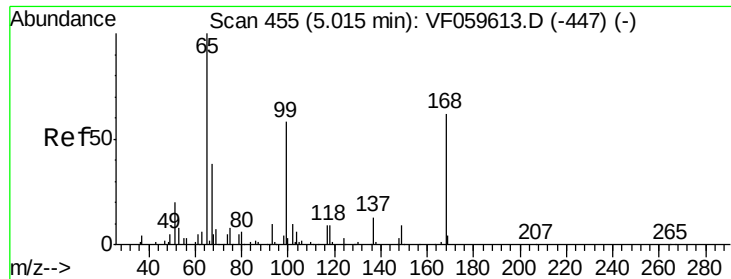
Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



Time-->

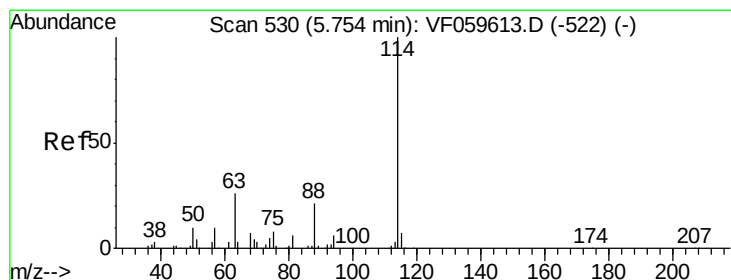
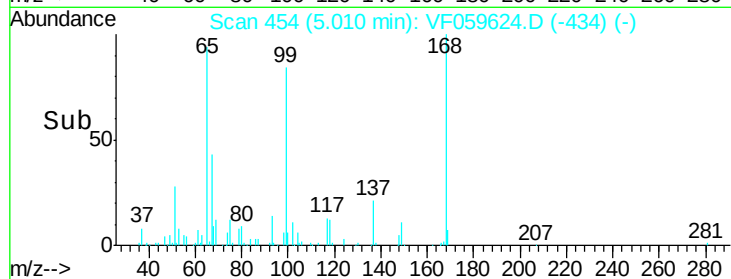
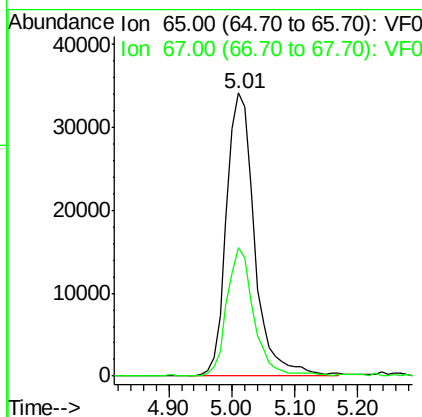
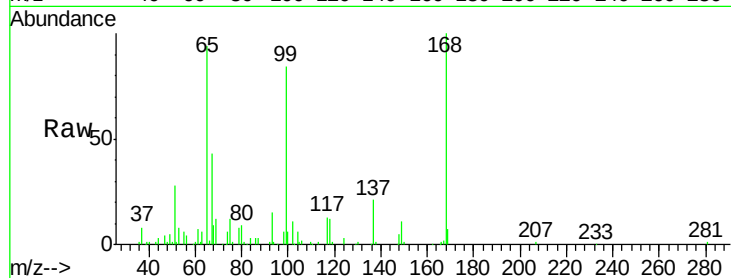




#33
 1,2-Dichloroethane-d4
 Concen: 29.087 ug/l
 RT: 5.01 min Scan# 454
 Delta R.T. -0.00 min
 Lab File: VF059624.D
 Acq: 23 Jul 2018 19:59

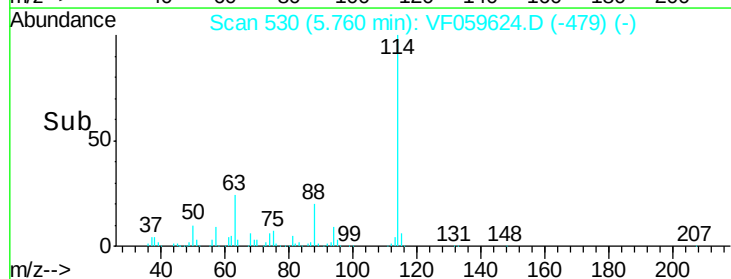
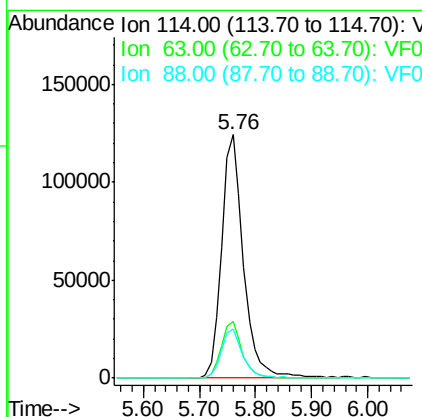
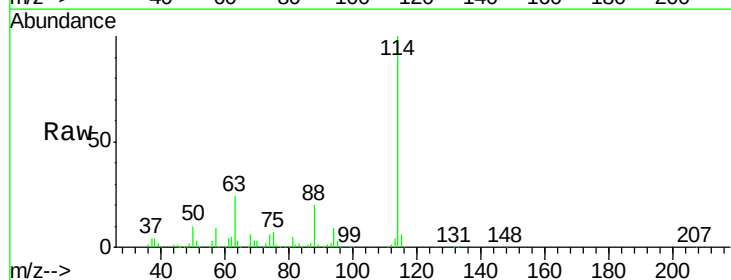
Instrument :
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 GL-TOPSOIL-04

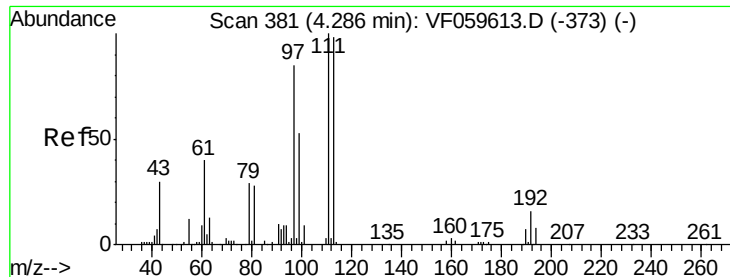
Tgt Ion: 65 Resp: 105668
 Ion Ratio Lower Upper
 65 100
 67 45.5 0.0 83.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 530
 Delta R.T. 0.01 min
 Lab File: VF059624.D
 Acq: 23 Jul 2018 19:59

Tgt Ion: 114 Resp: 337826
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 51.8
 88 20.1 0.0 42.8

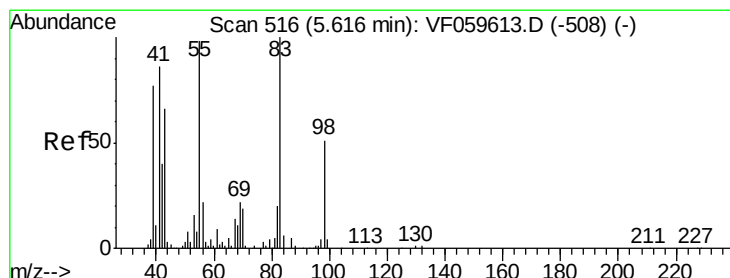
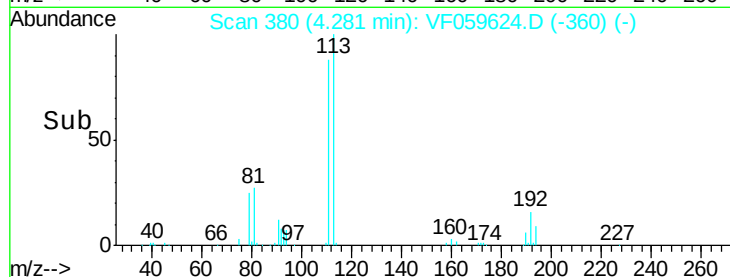
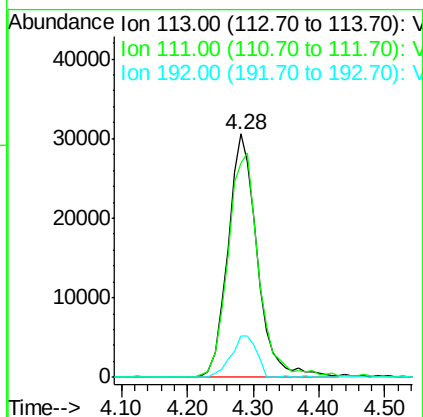
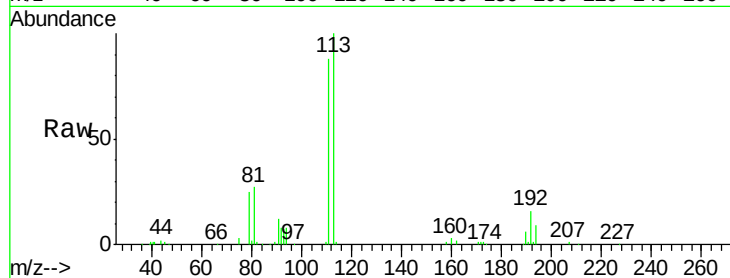




#35
Dibromofluoromethane
Concen: 30.617 ug/l
RT: 4.28 min Scan# 380
Delta R.T. -0.00 min
Lab File: VF059624.D
Acq: 23 Jul 2018 19:59

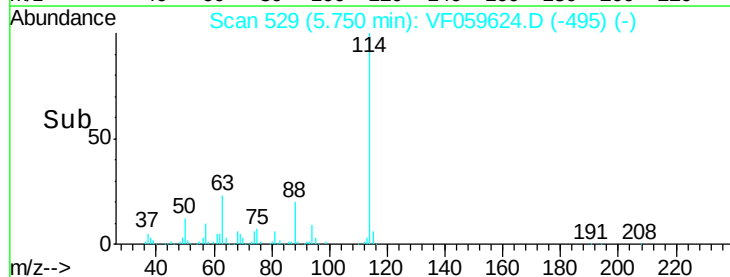
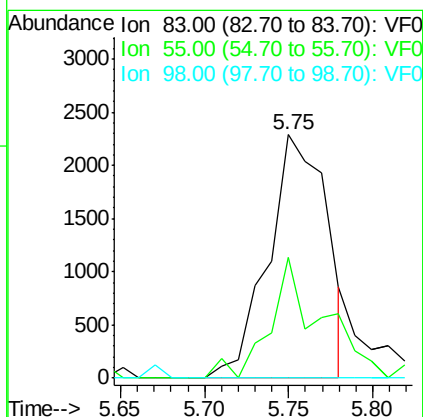
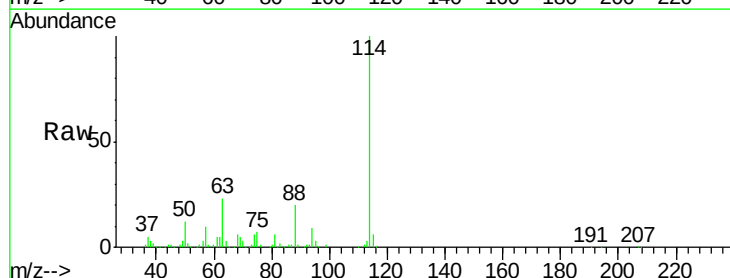
Instrument :
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GL-TOPSOIL-04

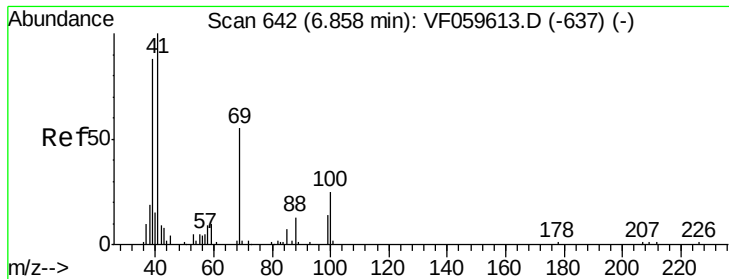
Tgt Ion: 113 Resp: 95429
Ion Ratio Lower Upper
113 100
111 88.0 81.5 122.3
192 16.9 13.4 20.2



#39
Methylcyclohexane
Concen: 1.995 ug/l
RT: 5.75 min Scan# 529
Delta R.T. 0.13 min
Lab File: VF059624.D
Acq: 23 Jul 2018 19:59

Tgt Ion: 83 Resp: 5537
Ion Ratio Lower Upper
83 100
55 49.3 78.5 117.7#
98 0.0 41.1 61.7#

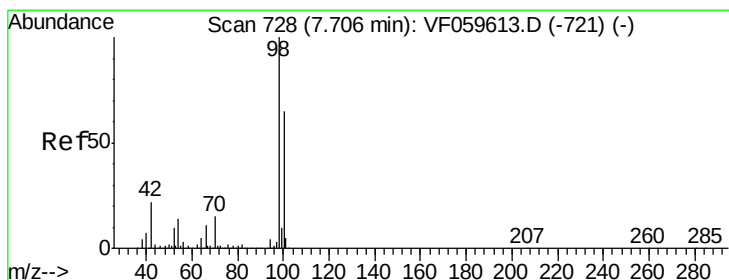
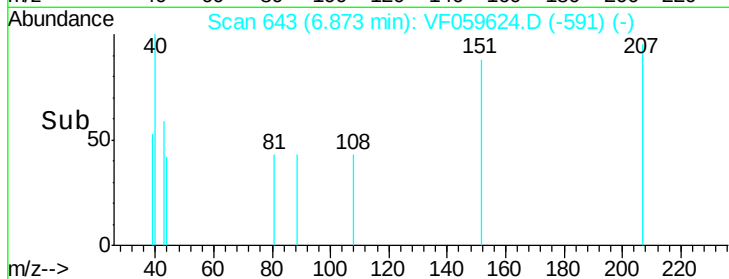
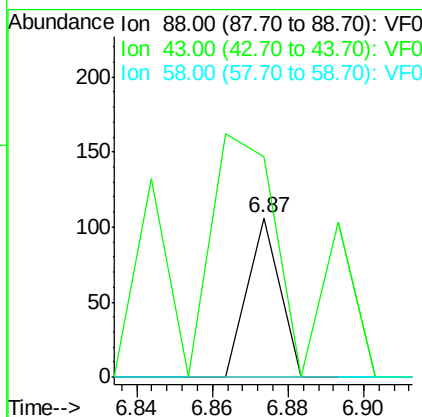
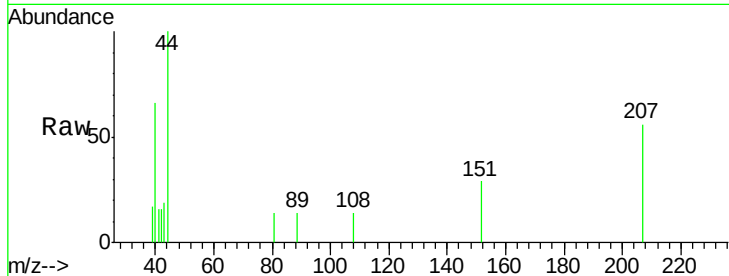




#49
1,4-Dioxane
Concen: Below Cal
RT: 6.87 min Scan# 643
Delta R.T. 0.02 min
Lab File: VF059624.D
Acq: 23 Jul 2018 19:59

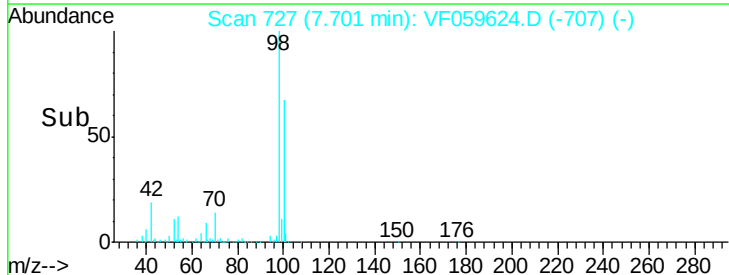
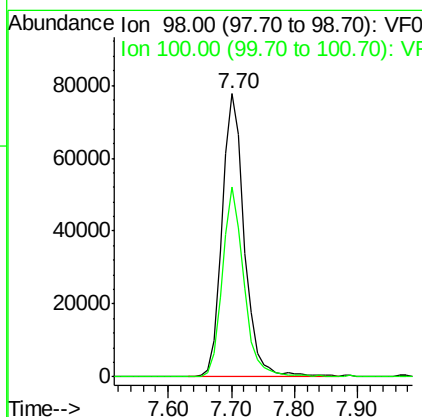
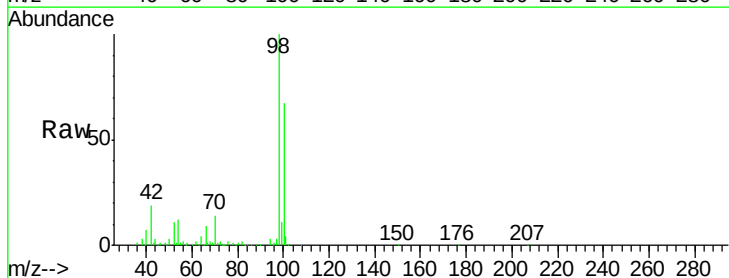
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-04

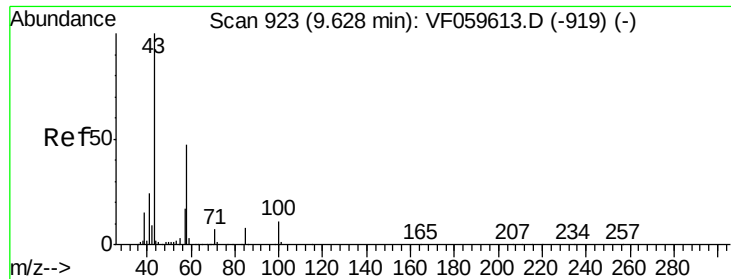
Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 138.7 54.2 81.4#
58 0.0 54.3 81.5#



#50
Toluene-d8
Concen: 24.517 ug/l
RT: 7.70 min Scan# 727
Delta R.T. -0.00 min
Lab File: VF059624.D
Acq: 23 Jul 2018 19:59

Tgt Ion: 98 Resp: 191329
Ion Ratio Lower Upper
98 100
100 67.3 51.6 77.4

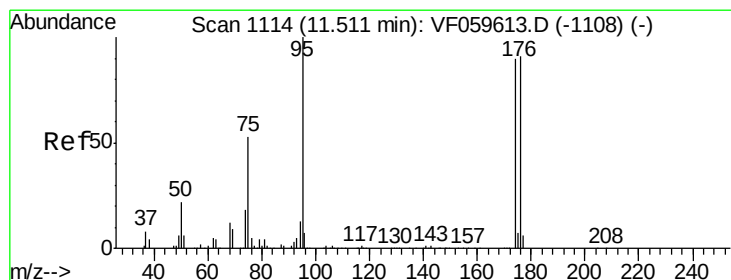
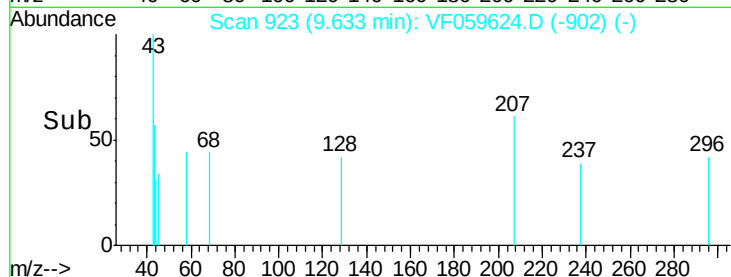
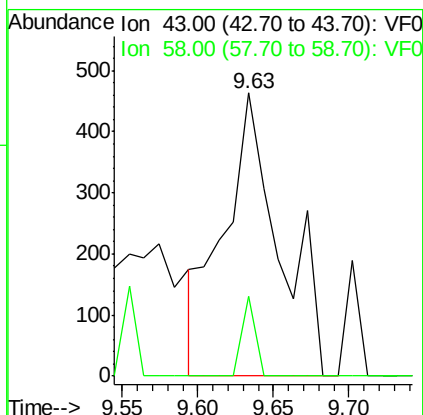
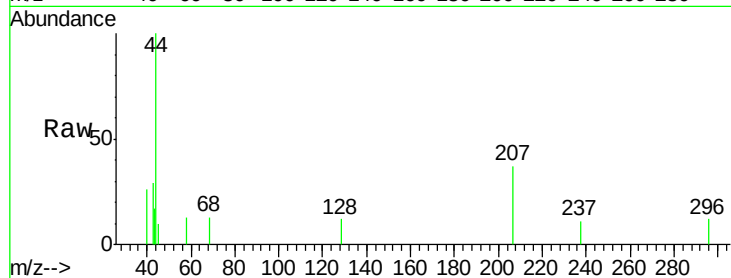




#59
2-Hexanone
Concen: 1.145 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.01 min
Lab File: VF059624.D
Acq: 23 Jul 2018 19:59

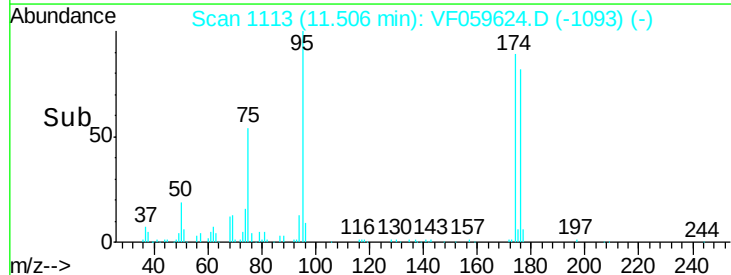
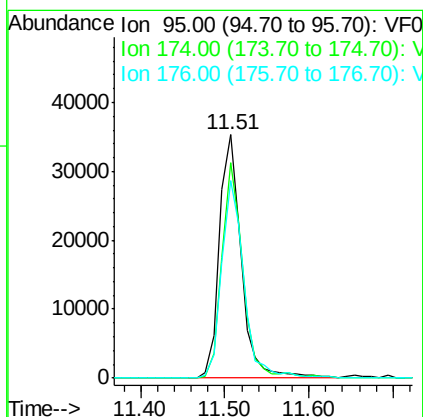
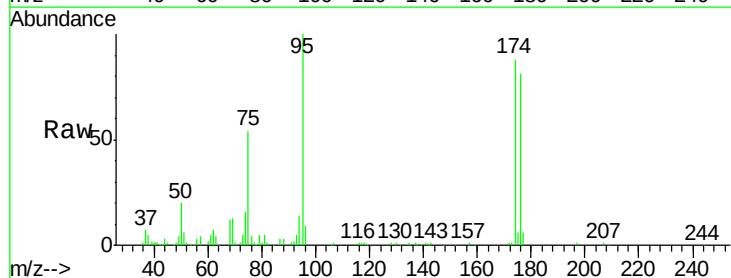
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-04

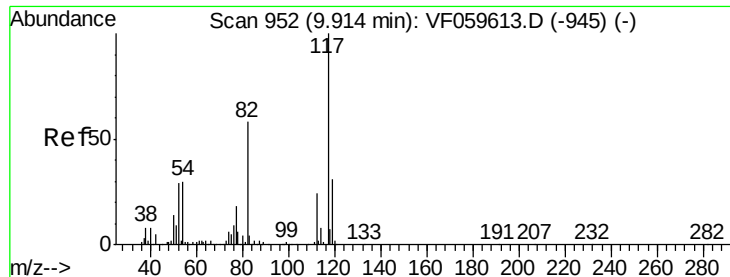
Tgt Ion: 43 Resp: 1190
Ion Ratio Lower Upper
43 100
58 28.1 21.1 63.4



#62
4-Bromofluorobenzene
Concen: 14.228 ug/l
RT: 11.51 min Scan# 1113
Delta R.T. -0.00 min
Lab File: VF059624.D
Acq: 23 Jul 2018 19:59

Tgt Ion: 95 Resp: 64098
Ion Ratio Lower Upper
95 100
174 88.3 0.0 180.6
176 81.1 0.0 182.4

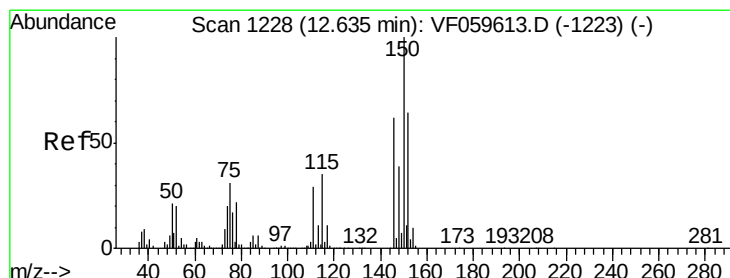
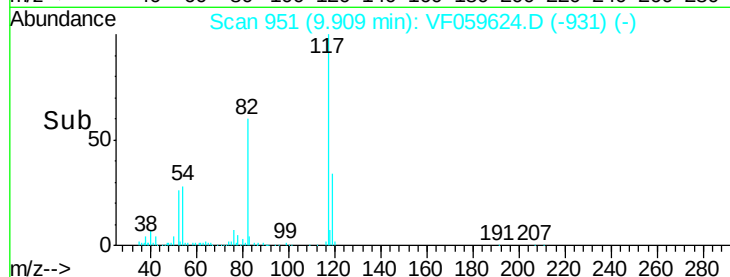
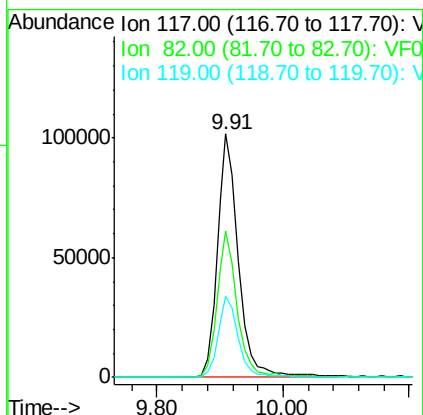
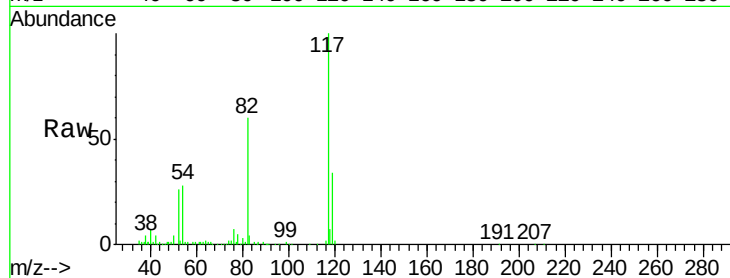




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 951
Delta R.T. -0.00 min
Lab File: VF059624.D
Acq: 23 Jul 2018 19:59

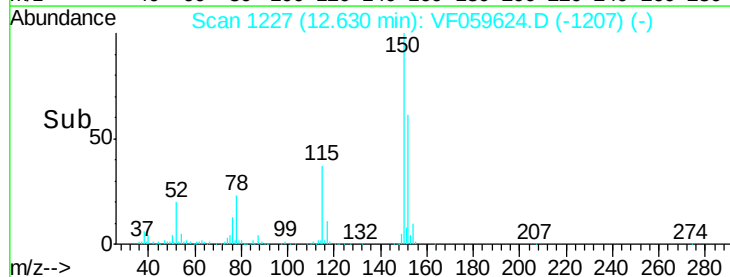
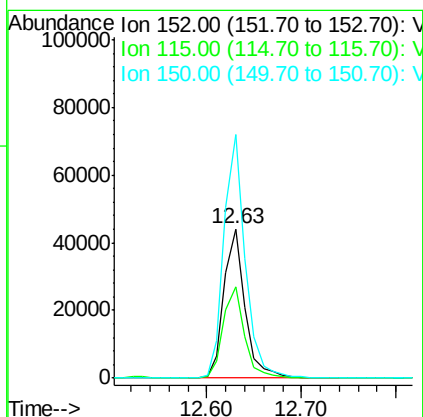
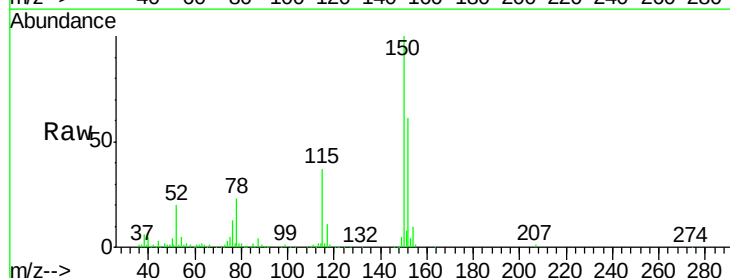
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-04

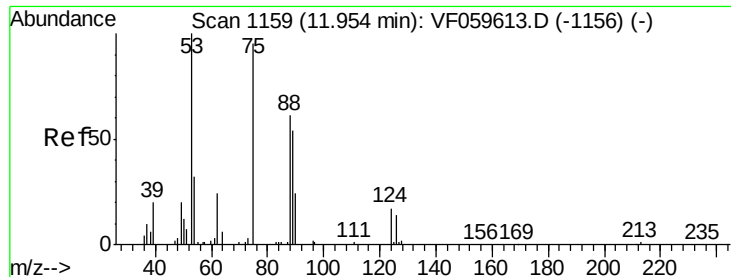
Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.1	46.5	69.7
119	33.5	24.4	36.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1227
Delta R.T. -0.00 min
Lab File: VF059624.D
Acq: 23 Jul 2018 19:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.0	27.8	83.4
150	163.5	0.0	314.6





#81

trans-1,4-Dichloro-2-butene

Concen: 1.298 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.07 min

Lab File: VF059624.D

Acq: 23 Jul 2018 19:59

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-04

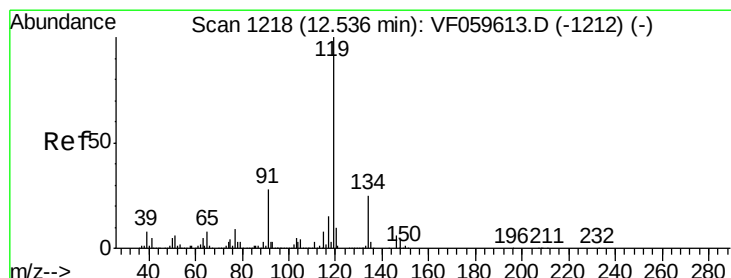
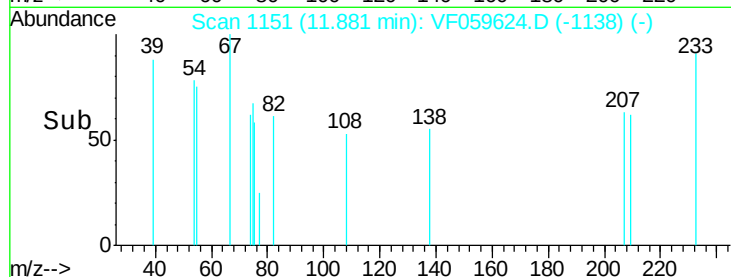
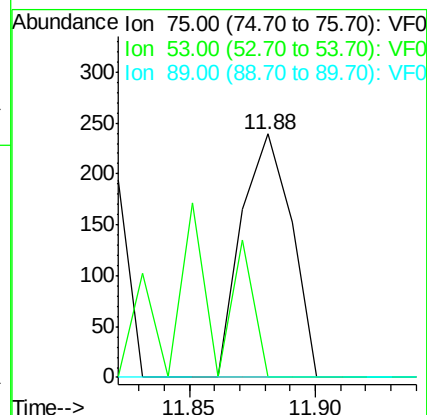
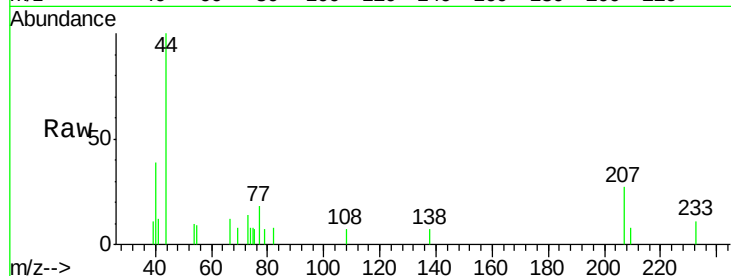
Tgt Ion: 75 Resp: 329

Ion Ratio Lower Upper

75 100

53 0.0 86.4 129.6#

89 0.0 46.8 70.2#



#86

p-Isopropyltoluene

Concen: 1.679 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VF059624.D

Acq: 23 Jul 2018 19:59

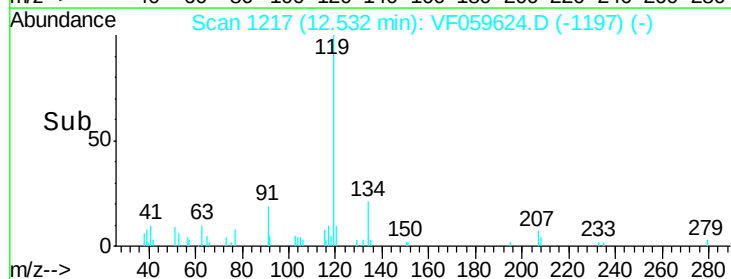
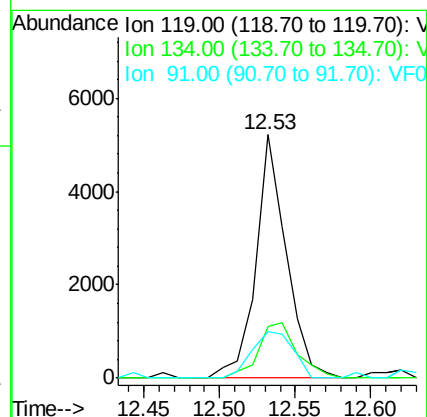
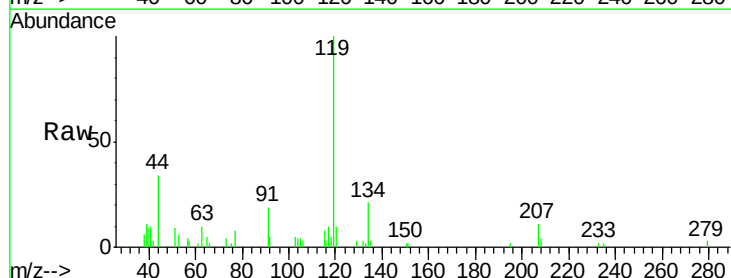
Tgt Ion: 119 Resp: 7367

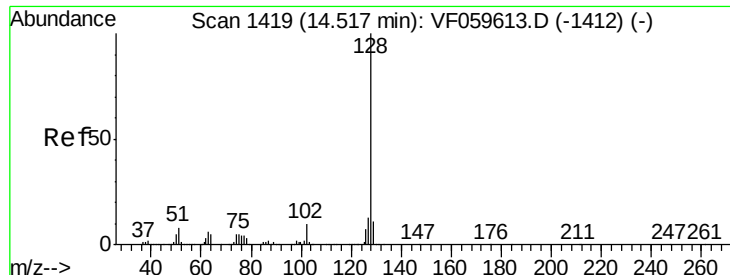
Ion Ratio Lower Upper

119 100

134 21.3 12.4 37.2

91 18.9 13.9 41.7





#95

Naphthalene

Concen: 1.244 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. 0.01 min

Lab File: VF059624.D

Acq: 23 Jul 2018 19:59

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-04

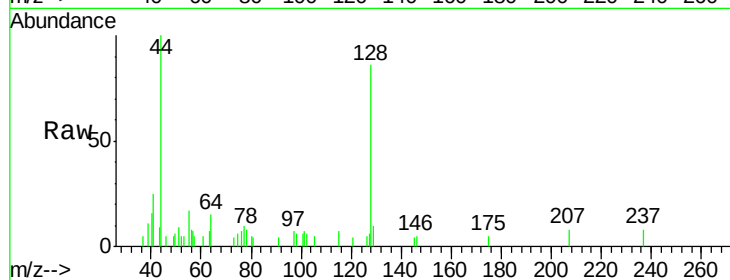
Tgt Ion:128 Resp: 3047

Ion Ratio Lower Upper

128 100

127 6.8 10.2 15.2#

129 11.5 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

