

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF072318\
 Data File : VF059628.D
 Acq On : 23 Jul 2018 21:49
 Operator : VA/AP
 Sample : J4099-08
 Misc : 5.69g/5mL/MSVOA_F/SOIL
 ALS Vial : 99 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-08

Quant Time: Jul 24 04:51:58 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	206942	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.75	114	274017	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	206608	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	69998	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	55584	17.07	ug/l	0.00
Spiked Amount 50.000			Recovery =	34.14%		
35) Dibromofluoromethane	4.28	113	49332	19.51	ug/l	0.00
Spiked Amount 50.000			Recovery =	39.02%		
50) Toluene-d8	7.70	98	87196	13.77	ug/l	0.00
Spiked Amount 50.000			Recovery =	27.54%		
62) 4-Bromofluorobenzene	11.51	95	36913	10.10	ug/l	0.00
Spiked Amount 50.000			Recovery =	20.20%		

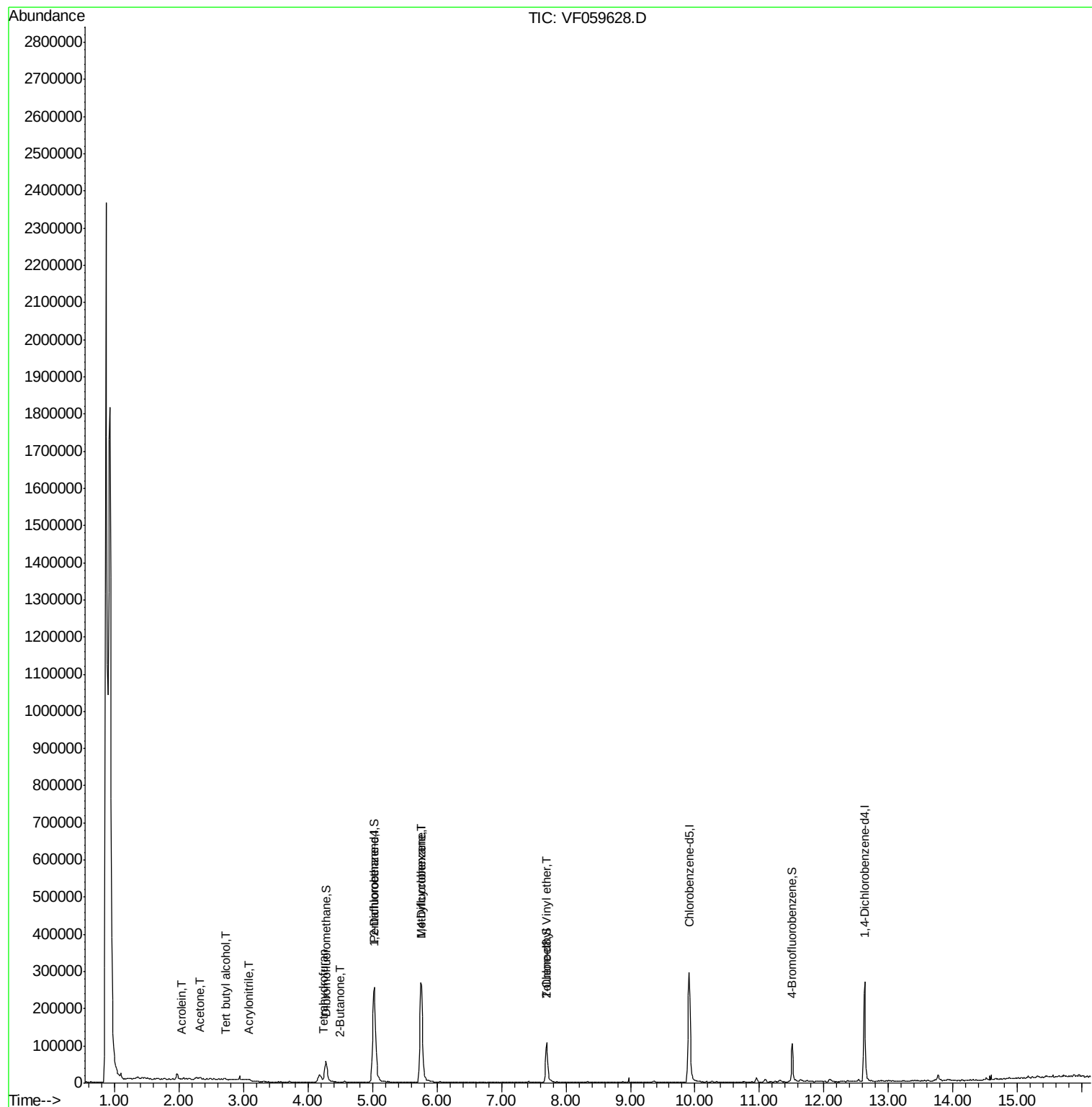
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.72	59	1171	8.835	ug/l #	1
13) Acrolein	2.03	56	99	1.489	ug/l	95
15) Acrylonitrile	3.08	53	526	2.573	ug/l #	38
16) Acetone	2.34	43	4027	7.212	ug/l	100
18) Methyl Acetate	2.44	43	1142	Below Cal	#	35
20) Methylene Chloride	2.27	84	2288	Below Cal	#	90
25) 2-Butanone	4.50	43	1318	2.290	ug/l #	62
29) Tetrahydrofuran	4.23	42	677	2.903	ug/l #	39
39) Methylcyclohexane	5.76	83	4090	1.817	ug/l #	37
49) 1,4-Dioxane	7.07	88	102	Below Cal		95
58) 2-Chloroethyl Vinyl ether	7.71	63	331	1.945	ug/l	100

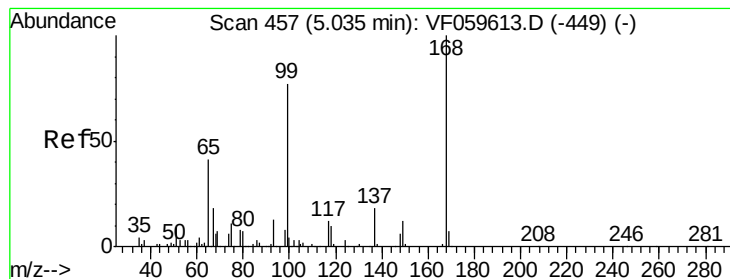
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jul 24 04:17:55 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 456

Delta R.T. -0.00 min

Lab File: VF059628.D

Acq: 23 Jul 2018 21:49

Instrument :

MSVOA_F

ClientSampleId :

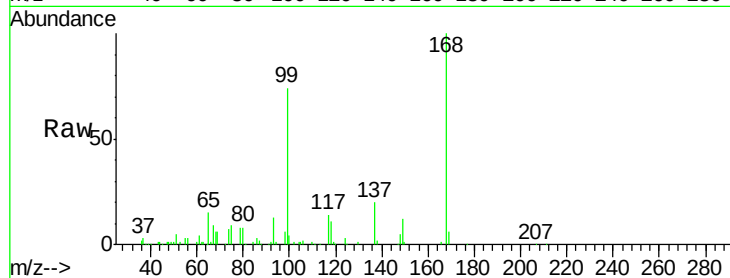
GL-TOPSOIL-08

Tgt Ion:168 Resp: 206942

Ion Ratio Lower Upper

168 100

99 74.3 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

60000

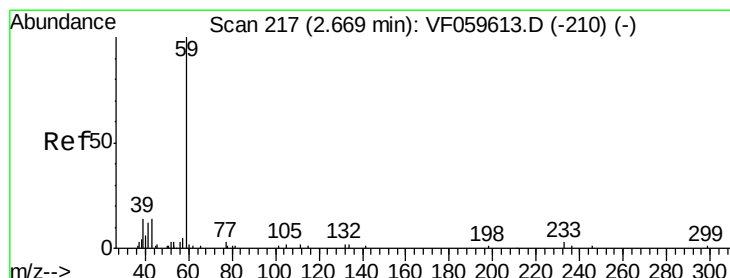
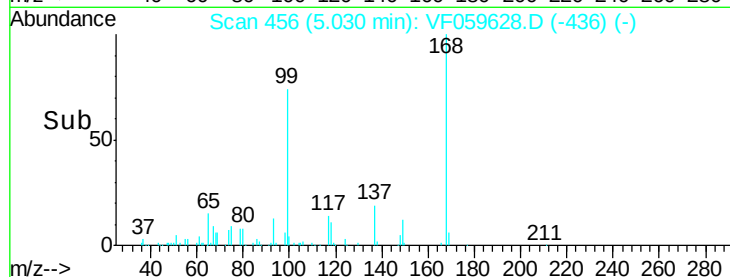
40000

20000

0

Time-->

4.90 5.00 5.10 5.20



#11

Tert butyl alcohol

Concen: 8.835 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.06 min

Lab File: VF059628.D

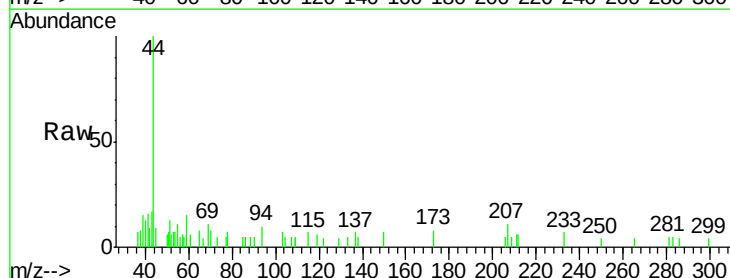
Acq: 23 Jul 2018 21:49

Tgt Ion: 59 Resp: 1171

Ion Ratio Lower Upper

59 100

57 109.3 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.72

400

300

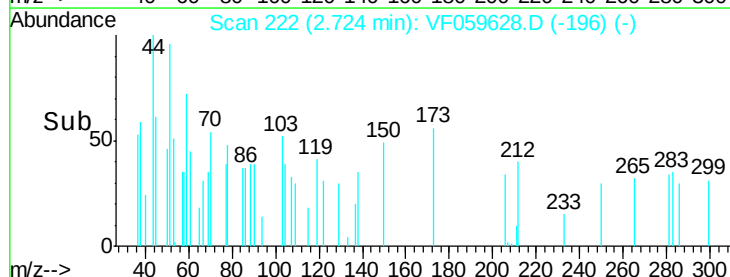
200

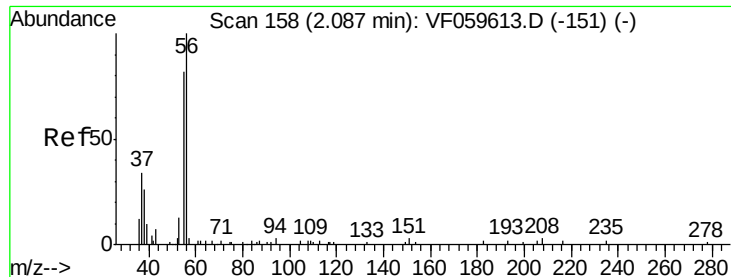
100

0

Time-->

2.60 2.65 2.70 2.75 2.80





#13

Acrolein

Concen: 1.489 ug/l

RT: 2.03 min Scan# 152

Delta R.T. -0.05 min

Lab File: VF059628.D

Acq: 23 Jul 2018 21:49

Instrument :

MSVOA_F

ClientSampled :

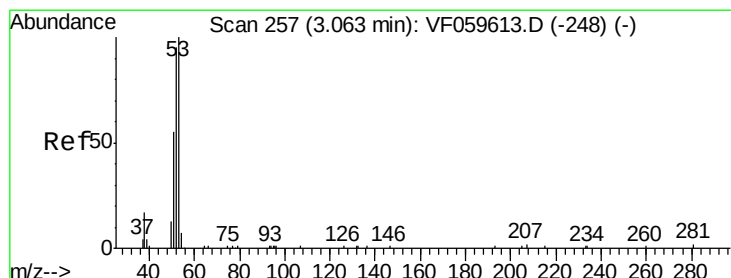
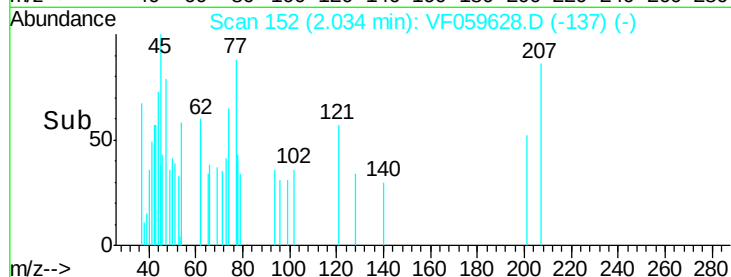
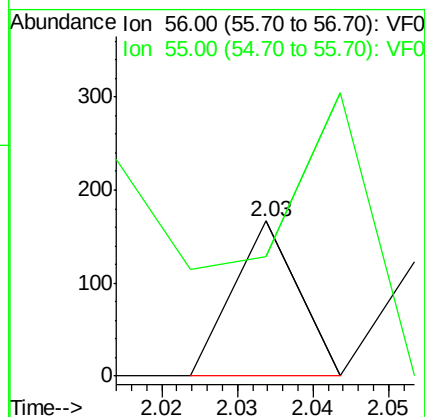
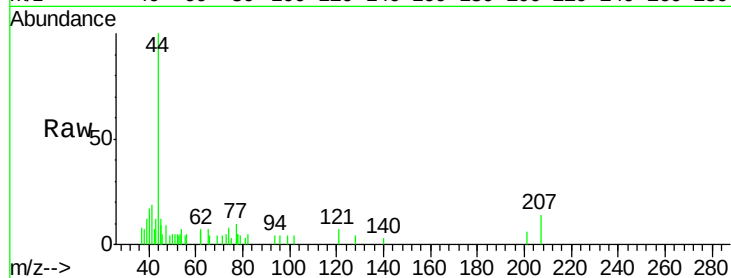
GL-TOPSOIL-08

Tgt Ion: 56 Resp: 99

Ion Ratio Lower Upper

56 100

55 77.2 65.6 98.4



#15

Acrylonitrile

Concen: 2.573 ug/l

RT: 3.08 min Scan# 258

Delta R.T. 0.02 min

Lab File: VF059628.D

Acq: 23 Jul 2018 21:49

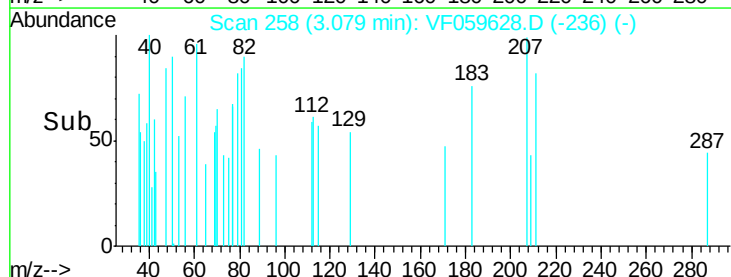
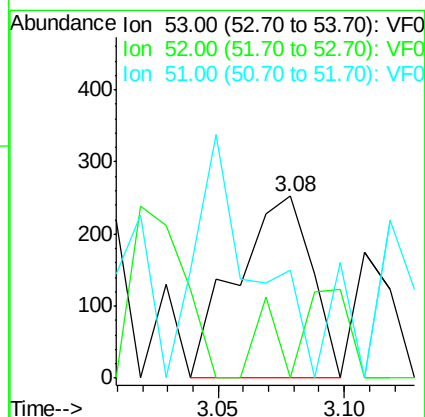
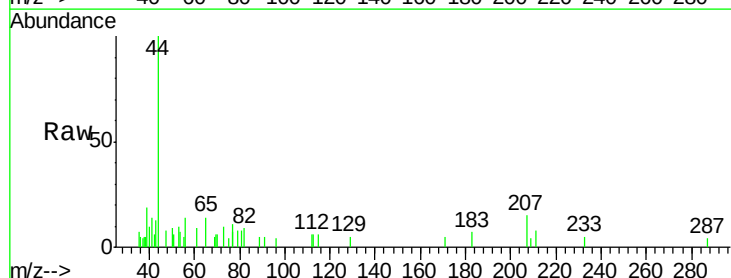
Tgt Ion: 53 Resp: 526

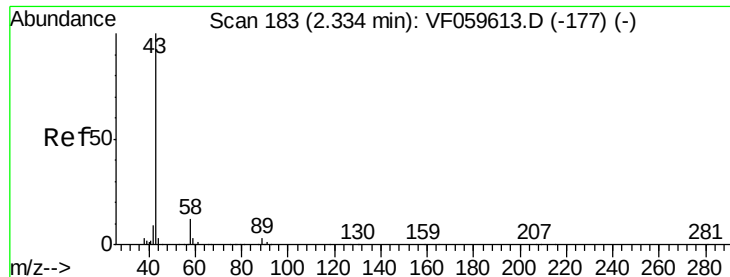
Ion Ratio Lower Upper

53 100

52 0.0 76.2 114.2#

51 59.1 45.8 68.8





#16

Acetone

Concen: 7.212 ug/l

RT: 2.34 min Scan# 183

Delta R.T. 0.01 min

Lab File: VF059628.D

Acq: 23 Jul 2018 21:49

Instrument :

MSVOA_F

ClientSampleId :

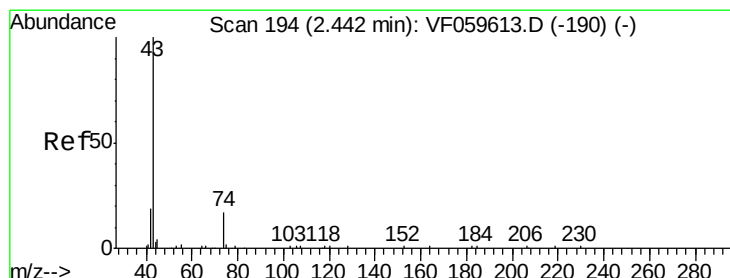
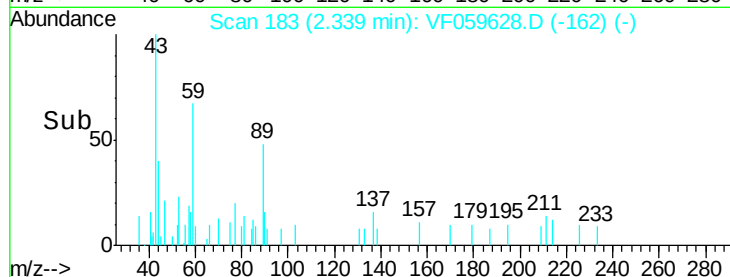
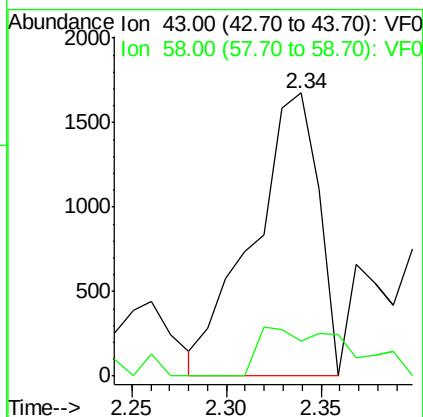
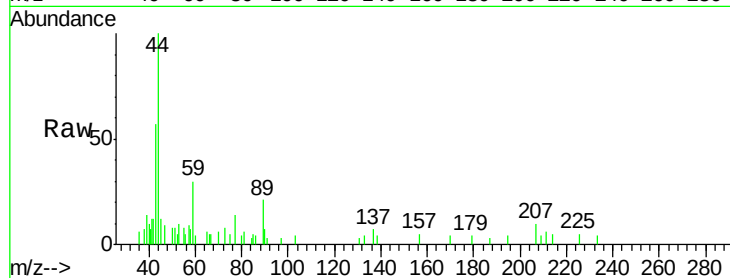
GL-TOPSOIL-08

Tgt Ion: 43 Resp: 4027

Ion Ratio Lower Upper

43 100

58 12.2 9.8 14.8



#18

Methyl Acetate

Concen: Below Cal

RT: 2.44 min Scan# 193

Delta R.T. -0.00 min

Lab File: VF059628.D

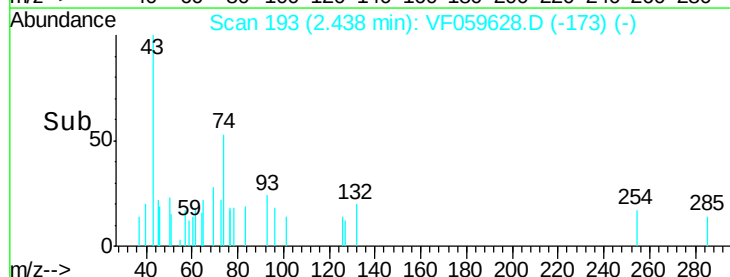
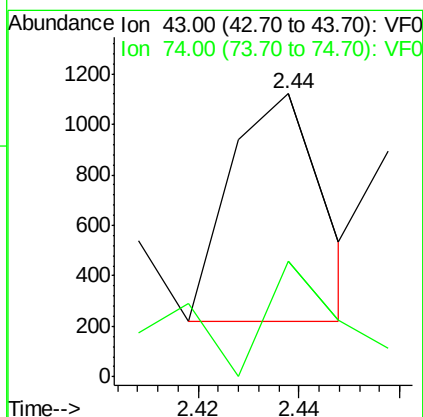
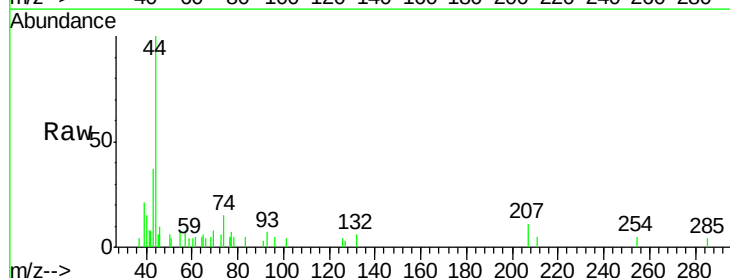
Acq: 23 Jul 2018 21:49

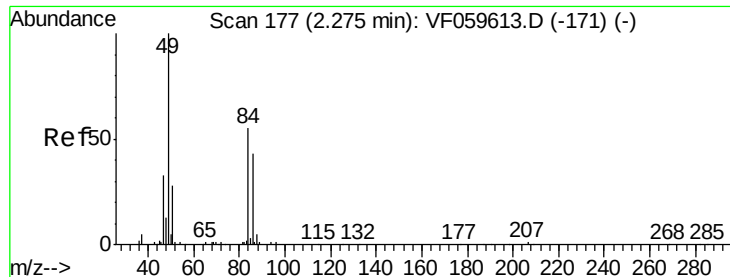
Tgt Ion: 43 Resp: 1142

Ion Ratio Lower Upper

43 100

74 40.9 11.4 17.0#

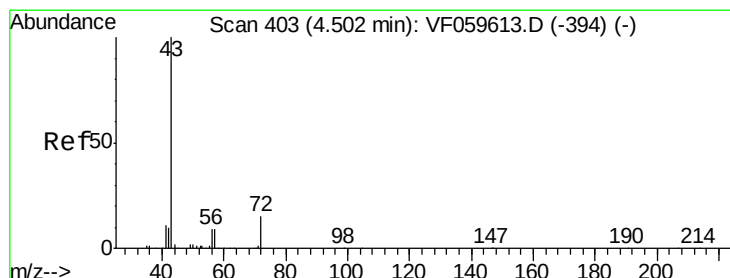
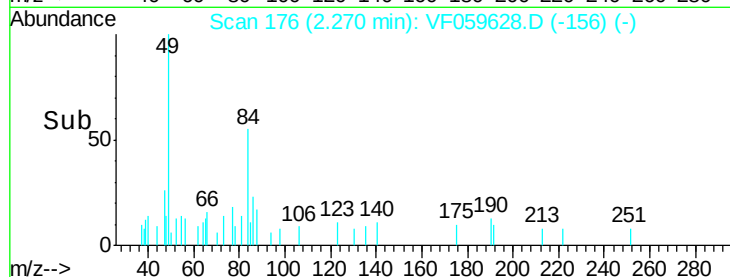
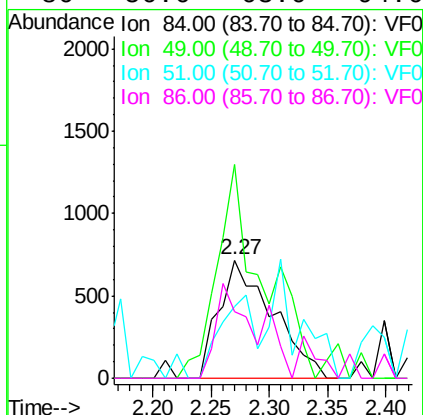
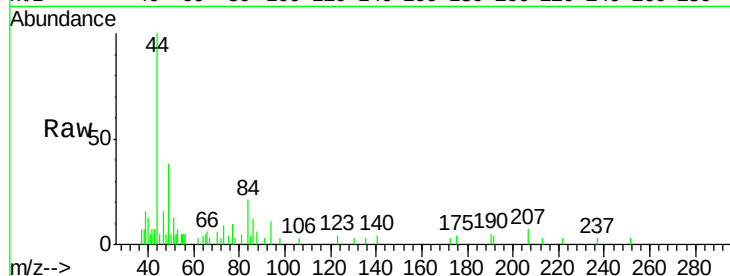




#20
Methylene Chloride
Concen: Below Cal
RT: 2.27 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF059628.D
Acq: 23 Jul 2018 21:49

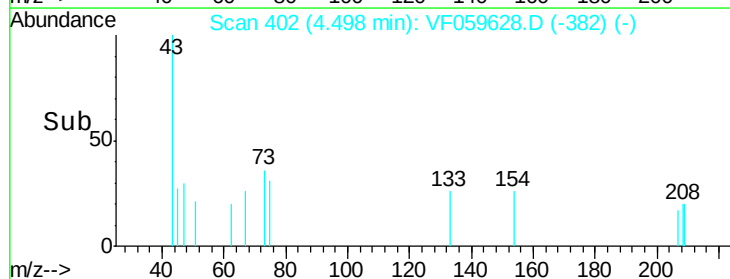
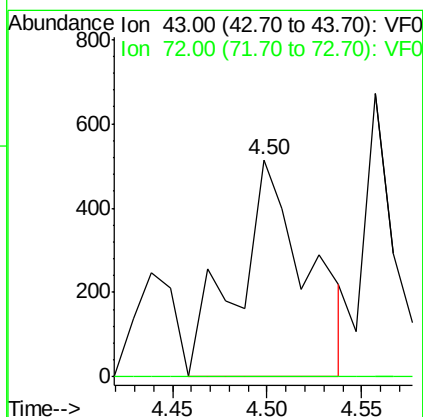
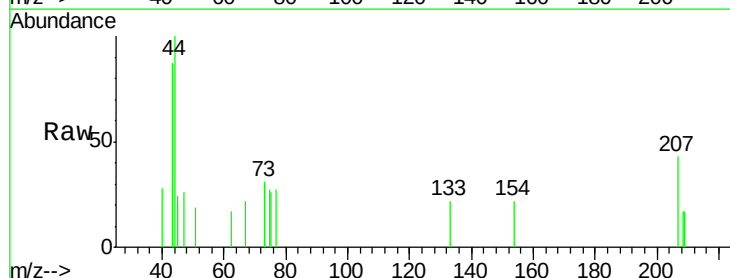
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-08

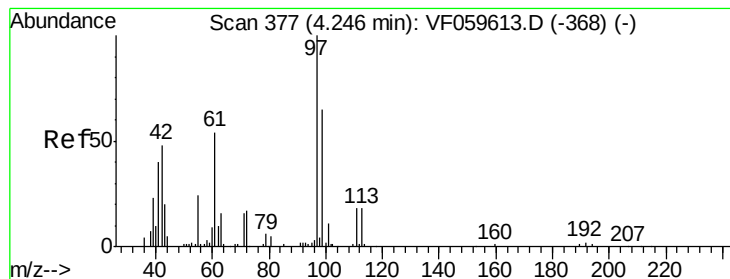
Tgt Ion: 84 Resp: 2288
Ion Ratio Lower Upper
84 100
49 180.9 148.6 222.8
51 61.1 42.7 64.1
86 56.6 63.0 94.6#



#25
2-Butanone
Concen: 2.290 ug/l
RT: 4.50 min Scan# 402
Delta R.T. -0.00 min
Lab File: VF059628.D
Acq: 23 Jul 2018 21:49

Tgt Ion: 43 Resp: 1318
Ion Ratio Lower Upper
43 100
72 0.0 12.9 19.3#





#29

Tetrahydrofuran

Concen: 2.903 ug/l

RT: 4.23 min Scan# 375

Delta R.T. -0.01 min

Lab File: VF059628.D

Acq: 23 Jul 2018 21:49

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-08

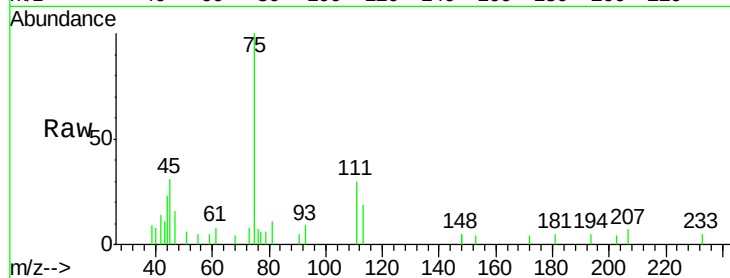
Tgt Ion: 42 Resp: 677

Ion Ratio Lower Upper

42 100

72 0.0 27.9 41.9#

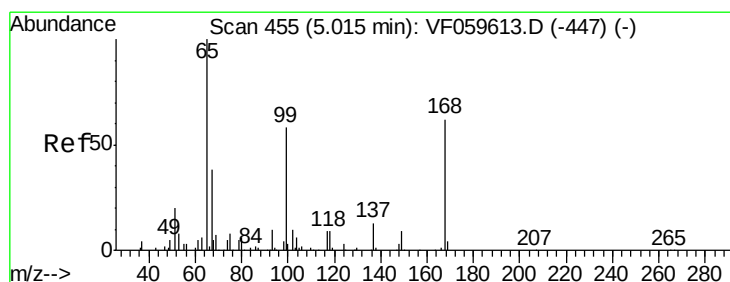
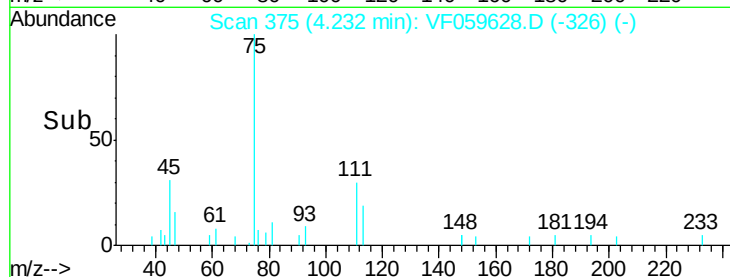
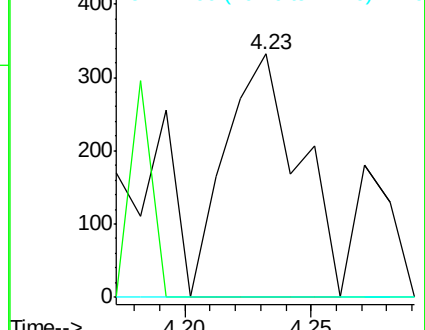
71 0.0 29.3 43.9#



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



#33

1,2-Dichloroethane-d4

Concen: 17.069 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.00 min

Lab File: VF059628.D

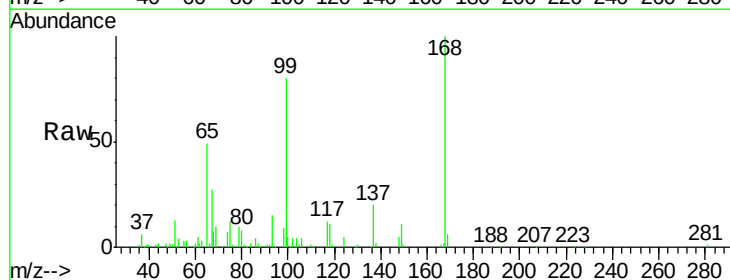
Acq: 23 Jul 2018 21:49

Tgt Ion: 65 Resp: 55584

Ion Ratio Lower Upper

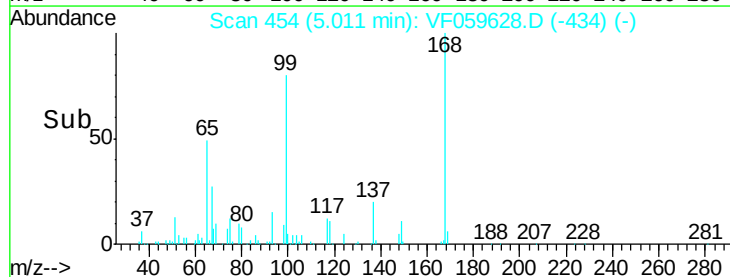
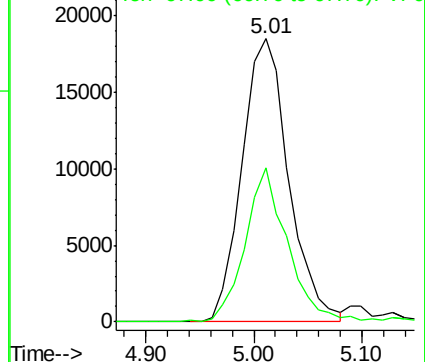
65 100

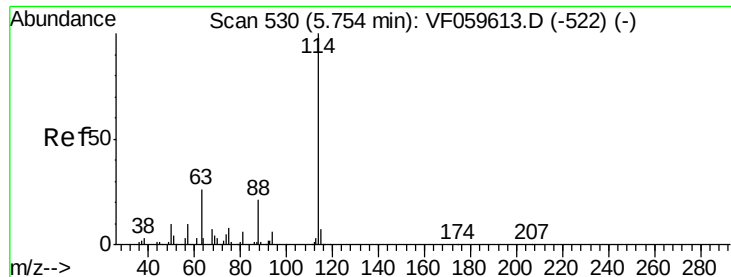
67 54.4 0.0 83.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 529

Delta R.T. -0.00 min

Lab File: VF059628.D

Acq: 23 Jul 2018 21:49

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-08

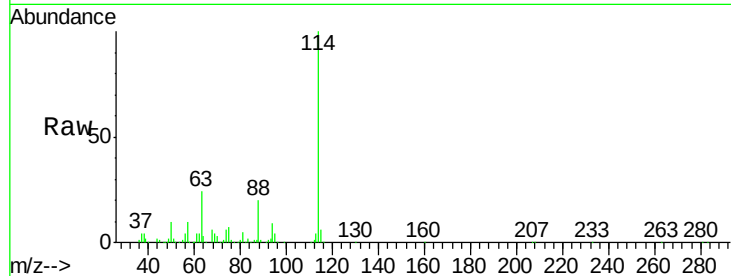
Tgt Ion:114 Resp: 274017

Ion Ratio Lower Upper

114 100

63 24.2 0.0 51.8

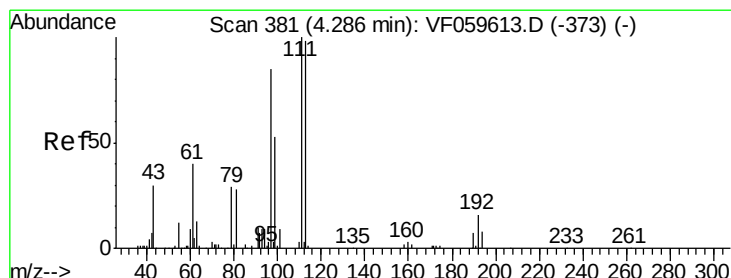
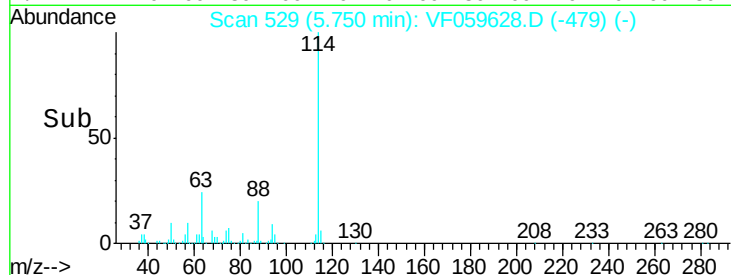
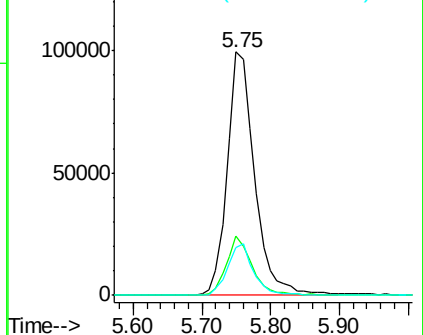
88 19.7 0.0 42.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 19.513 ug/l

RT: 4.28 min Scan# 380

Delta R.T. -0.00 min

Lab File: VF059628.D

Acq: 23 Jul 2018 21:49

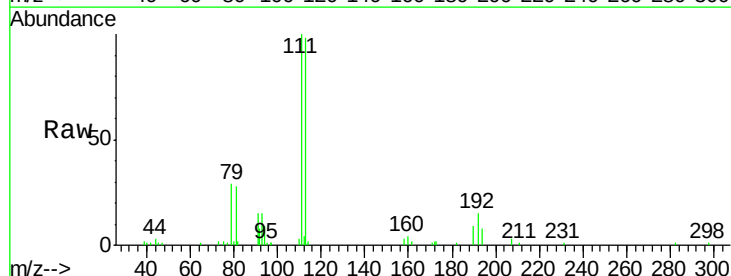
Tgt Ion:113 Resp: 49332

Ion Ratio Lower Upper

113 100

111 101.7 81.5 122.3

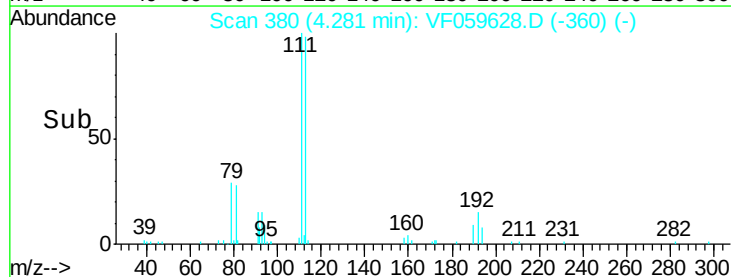
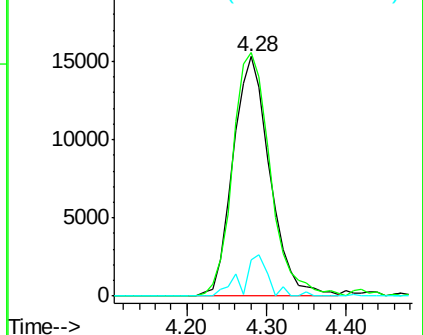
192 15.1 13.4 20.2

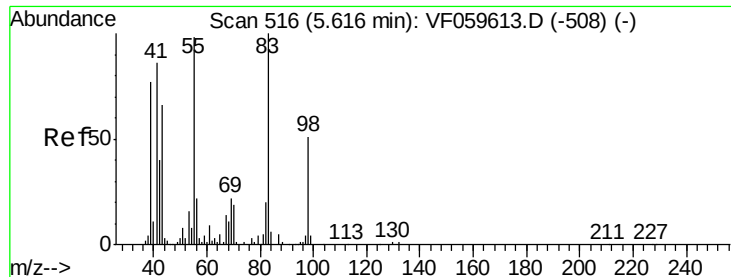


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

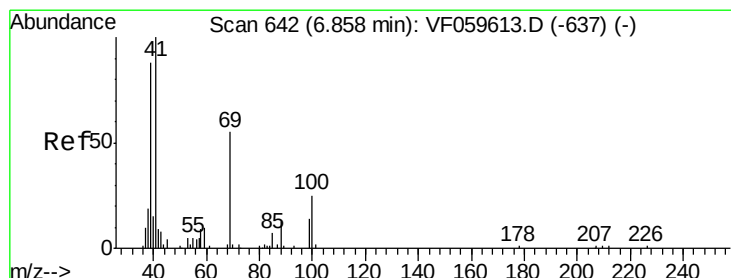
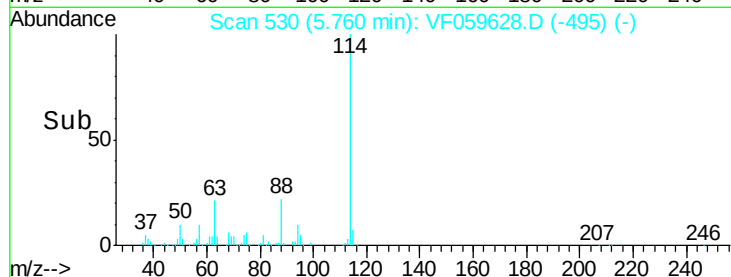
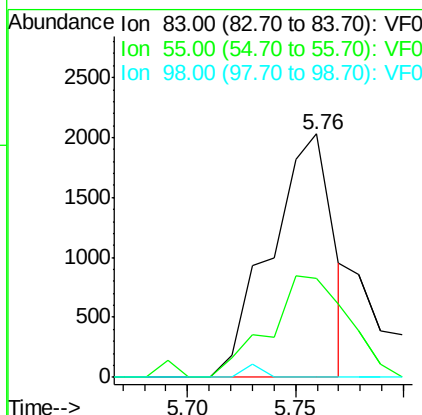
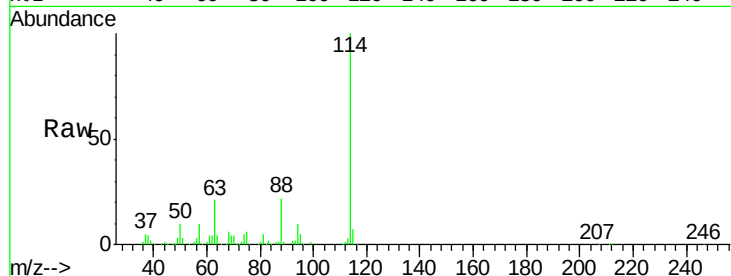




#39
Methylcyclohexane
Concen: 1.817 ug/l
RT: 5.76 min Scan# 530
Delta R.T. 0.14 min
Lab File: VF059628.D
Acq: 23 Jul 2018 21:49

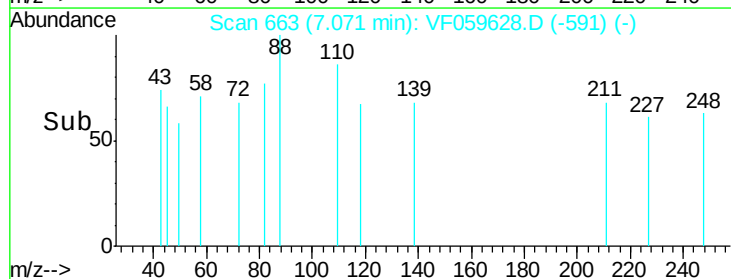
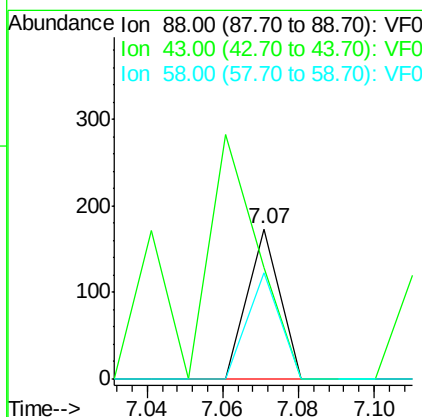
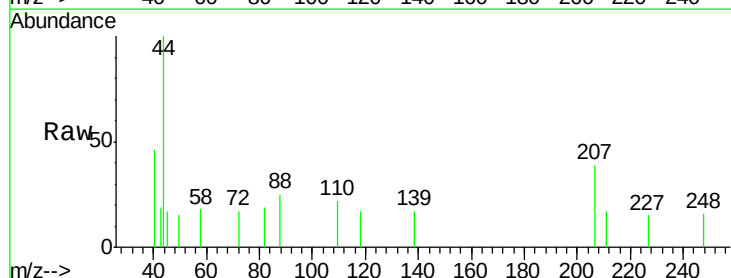
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-08

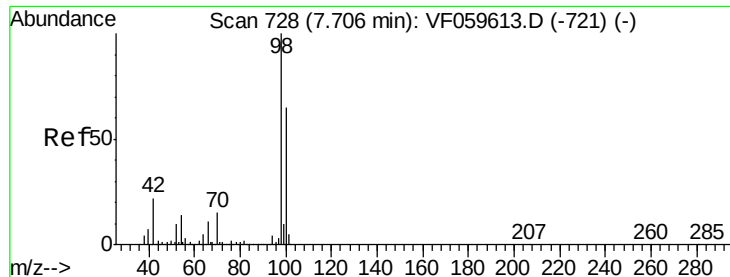
Tgt Ion: 83 Resp: 4090
Ion Ratio Lower Upper
83 100
55 40.8 78.5 117.7#
98 0.0 41.1 61.7#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.07 min Scan# 663
Delta R.T. 0.21 min
Lab File: VF059628.D
Acq: 23 Jul 2018 21:49

Tgt Ion: 88 Resp: 102
Ion Ratio Lower Upper
88 100
43 74.0 54.2 81.4
58 70.5 54.3 81.5





#50

Toluene-d8

Concen: 13.775 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.00 min

Lab File: VF059628.D

Acq: 23 Jul 2018 21:49

Instrument :

MSVOA_F

ClientSampleId :

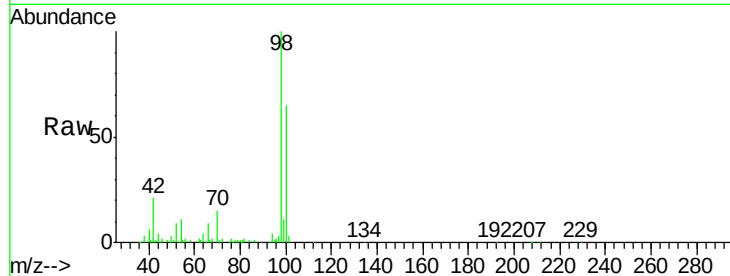
GL-TOPSOIL-08

Tgt Ion: 98 Resp: 87196

Ion Ratio Lower Upper

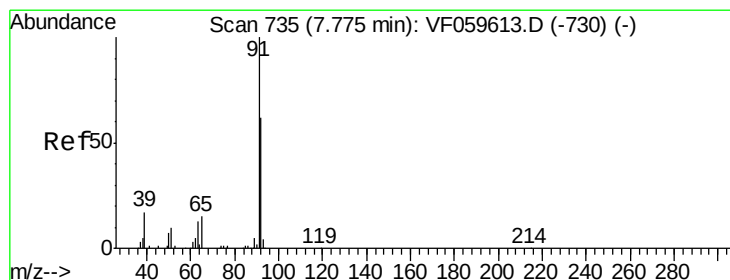
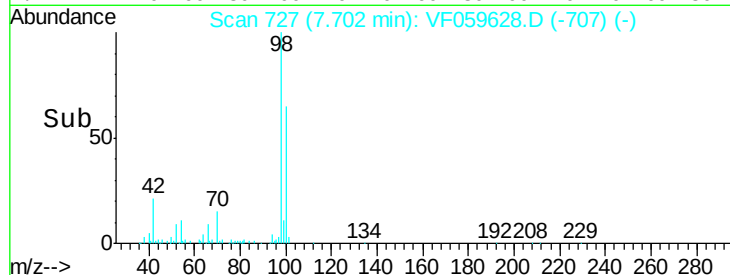
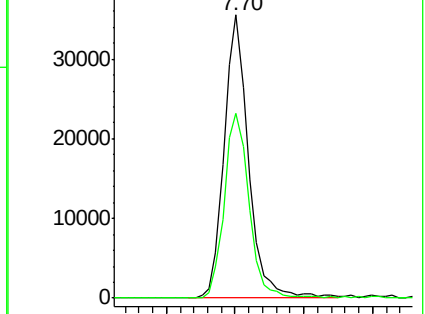
98 100

100 65.4 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#58

2-Chloroethyl Vinyl ether

Concen: 1.945 ug/l

RT: 7.71 min Scan# 728

Delta R.T. -0.06 min

Lab File: VF059628.D

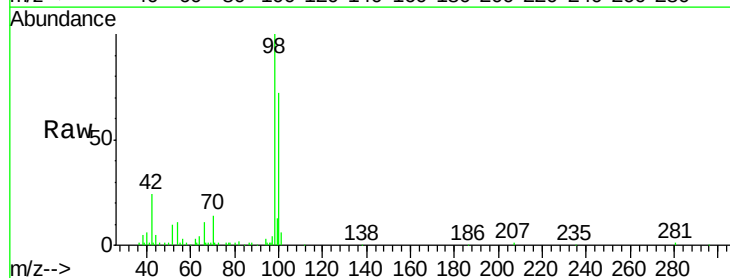
Acq: 23 Jul 2018 21:49

Tgt Ion: 63 Resp: 331

Ion Ratio Lower Upper

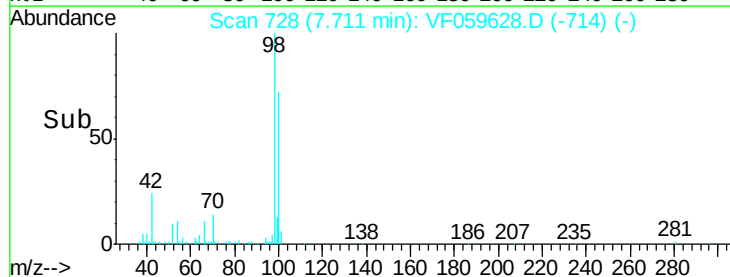
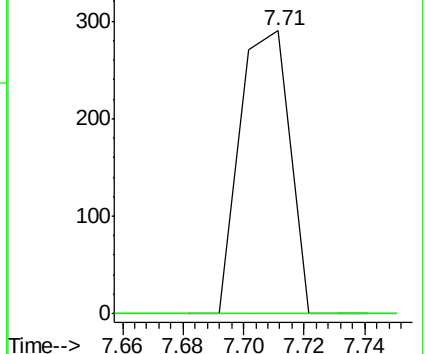
63 100

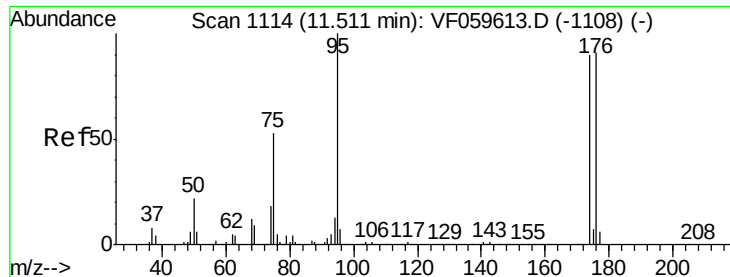
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V





#62

4-Bromofluorobenzene

Concen: 10.102 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.00 min

Lab File: VF059628.D

Acq: 23 Jul 2018 21:49

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-08

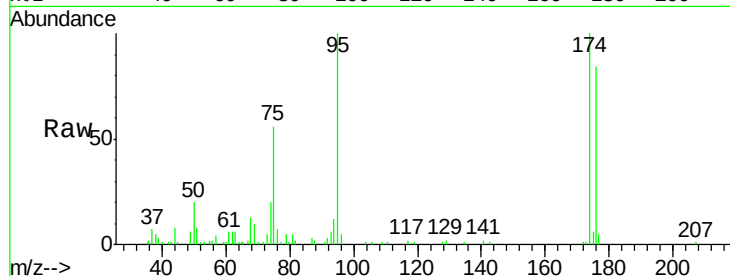
Tgt Ion: 95 Resp: 36913

Ion Ratio Lower Upper

95 100

174 99.7 0.0 180.6

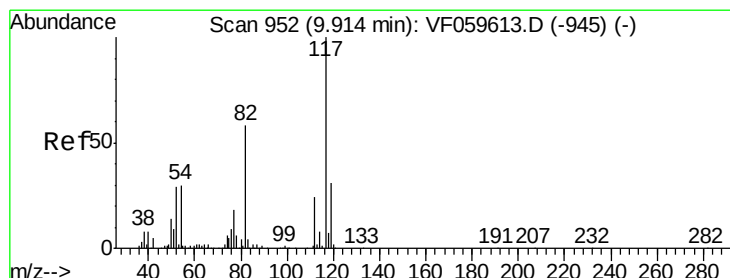
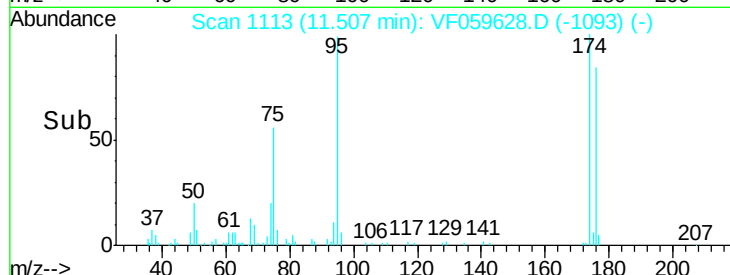
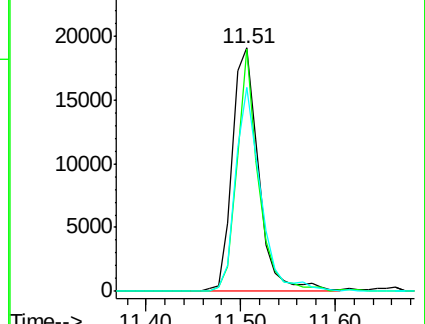
176 83.8 0.0 182.4



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 951

Delta R.T. -0.00 min

Lab File: VF059628.D

Acq: 23 Jul 2018 21:49

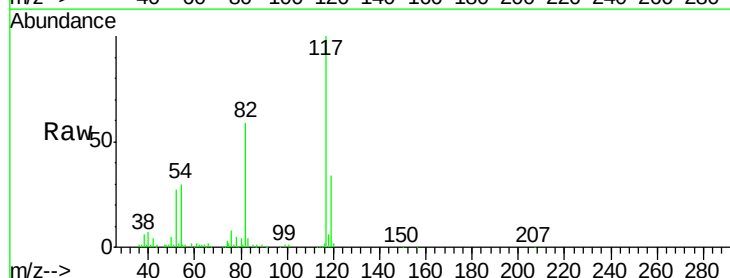
Tgt Ion: 117 Resp: 206608

Ion Ratio Lower Upper

117 100

82 58.5 46.5 69.7

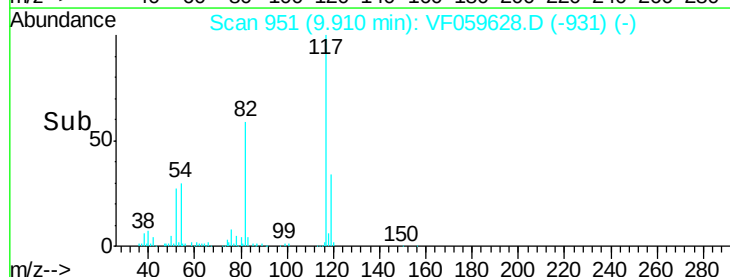
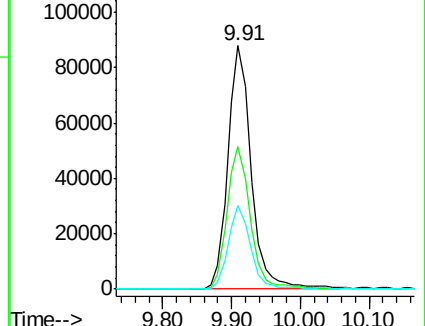
119 34.4 24.4 36.6

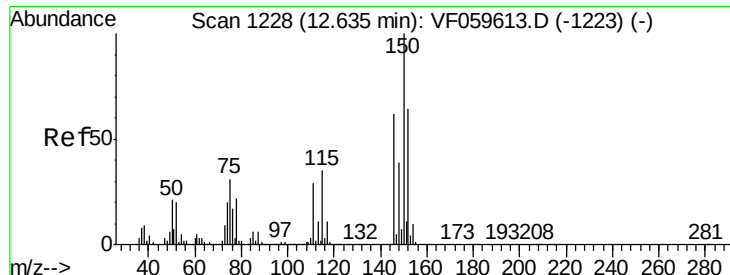


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#72

1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. -0.00 min
 Lab File: VF059628.D
 Acq: 23 Jul 2018 21:49

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-08

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.3	27.8	83.4
150	160.9	0.0	314.6

