

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_F\DATA\VF072318\
 Data File : VF059630.D
 Acq On : 23 Jul 2018 22:45
 Operator : VA/AP
 Sample : J4099-10MS
 Misc : 5.21g/5mL/MSVOA_F/SOIL
 ALS Vial : 100 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

Quant Time: Jul 24 04:52:15 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	5.04	168	201279	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.76	114	283921	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	210882	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.63	152	68916	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	160933	50.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.62%	
35) Dibromofluoromethane	4.28	113	136363	52.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.12%	
50) Toluene-d8	7.70	98	309834	47.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.48%	
62) 4-Bromofluorobenzene	11.51	95	105107	27.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	55.52%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.98	85	116042	45.948	ug/l	98
3) Chloromethane	1.10	50	48294	41.930	ug/l	93
4) Vinyl Chloride	1.16	62	61144	46.998	ug/l	89
5) Bromomethane	1.33	94	37068	32.926	ug/l	90
6) Chloroethane	1.42	64	37005	46.606	ug/l #	83
7) Trichlorofluoromethane	1.48	101	68385	19.331	ug/l	92
8) Diethyl Ether	1.70	74	26245	51.686	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	1.90	101	75804	42.589	ug/l #	86
10) Methyl Iodide	1.95	142	95229	31.818	ug/l	96
11) Tert butyl alcohol	2.67	59	30718	238.270	ug/l	96
12) 1,1-Dichloroethene	1.85	96	66887	47.408	ug/l	95
13) Acrolein	2.12	56	333	5.151	ug/l	85
14) Allyl chloride	2.18	41	80746	31.613	ug/l	87
15) Acrylonitrile	3.07	53	39124	196.731	ug/l	95
16) Acetone	2.33	43	98549	181.468	ug/l	95
17) Carbon Disulfide	1.84	76	72987	19.985	ug/l	98
18) Methyl Acetate	2.45	43	87845	129.200	ug/l #	88
19) Methyl tert-butyl Ether	2.53	73	198987	48.392	ug/l	97
20) Methylene Chloride	2.27	84	67565	55.254	ug/l	97
21) trans-1,2-Dichloroethene	2.41	96	64072	44.181	ug/l	90
22) Diisopropyl ether	2.92	45	238903	51.038	ug/l	99
24) 1,1-Dichloroethane	2.99	63	169599	50.549	ug/l	99
25) 2-Butanone	4.50	43	105085	187.685	ug/l	97
26) 2,2-Dichloropropane	3.75	77	136575	48.299	ug/l	98
27) cis-1,2-Dichloroethene	3.62	96	87448	52.610	ug/l	99
28) Bromochloromethane	3.88	49	60332	48.916	ug/l	97
29) Tetrahydrofuran	4.24	42	49811	219.585	ug/l	94
30) Chloroform	4.02	83	224947	48.773	ug/l	96
31) Cyclohexane	3.86	56	64367	34.478	ug/l #	93
32) 1,1,1-Trichloroethane	4.26	97	200186	47.930	ug/l	96
36) 1,1-Dichloropropene	4.45	75	126407	43.961	ug/l #	93
37) Ethyl Acetate	4.24	43	15509	13.417	ug/l #	1
38) Carbon Tetrachloride	4.16	117	143113	32.256	ug/l	93
39) Methylcyclohexane	5.61	83	52282	22.413	ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	4.80	78	247564	47.115	ug/l	98
41) Methacrylonitrile	4.91	41	19489	32.887	ug/l #	74
42) 1,2-Dichloroethane	5.11	62	160910	45.357	ug/l	100
43) Isopropyl Acetate	7.11	43	1616	1.094	ug/l #	90
44) Trichloroethene	5.66	130	88024	43.459	ug/l	95
45) 1,2-Dichloropropane	6.40	63	65664	46.159	ug/l	96
46) Dibromomethane	6.24	93	56764	48.172	ug/l	89
47) Bromodichloromethane	6.54	83	127980	35.788	ug/l	97
48) Methyl methacrylate	6.86	41	59797	54.124	ug/l	91
49) 1,4-Dioxane	6.85	88	7928	1157.042	ug/l	95
51) 4-Methyl-2-Pentanone	8.39	43	244242	226.955	ug/l	97
52) Toluene	7.77	92	162342	40.581	ug/l	94
53) t-1,3-Dichloropropene	8.42	75	96270	31.843	ug/l	95
54) cis-1,3-Dichloropropene	7.44	75	99356	33.154	ug/l	95
55) 1,1,2-Trichloroethane	8.63	97	55363	40.445	ug/l	94
56) Ethyl methacrylate	8.75	69	1999	1.312	ug/l #	55
57) 1,3-Dichloropropane	8.99	76	100331	42.123	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.77	63	35795	203.015	ug/l #	100
59) 2-Hexanone	9.62	43	131982	151.121	ug/l	98
60) Dibromochloromethane	8.85	129	71356	29.273	ug/l	99
61) 1,2-Dibromoethane	9.13	107	60833	38.774	ug/l	91
64) Tetrachloroethene	8.29	164	75191	48.013	ug/l	94
65) Chlorobenzene	9.93	112	174370	44.842	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.06	131	80748	45.830	ug/l	94
67) Ethyl Benzene	10.03	91	323496	45.753	ug/l	97
68) m/p-Xylenes	10.25	106	206996	86.144	ug/l	96
69) o-Xylene	10.83	106	114381	43.825	ug/l	88
70) Styrene	10.89	104	141558	36.164	ug/l	97
71) Bromoform	10.88	173	34834	31.906	ug/l	99
73) Isopropylbenzene	11.22	105	297096	67.875	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.78	83	59091	80.418	ug/l	96
76) 1,2,3-Trichloropropane	11.88	75	52129	81.207	ug/l	90
77) Bromobenzene	11.58	156	70958	62.570	ug/l	93
78) n-propylbenzene	11.68	91	301215	57.425	ug/l	97
79) 2-Chlorotoluene	11.80	91	179869	57.217	ug/l	100
80) 1,3,5-Trimethylbenzene	11.91	105	203592	51.959	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.95	75	18229	71.597	ug/l	98
82) 4-Chlorotoluene	11.98	91	192237	54.977	ug/l	96
83) tert-Butylbenzene	12.21	119	186852	48.226	ug/l	99
84) 1,2,4-Trimethylbenzene	12.28	105	198819	49.877	ug/l	98
85) sec-Butylbenzene	12.38	105	208473	41.629	ug/l	99
86) p-Isopropyltoluene	12.53	119	132908	30.155	ug/l	96
87) 1,3-Dichlorobenzene	12.55	146	93507	43.001	ug/l	99
88) 1,4-Dichlorobenzene	12.64	146	91311	44.755	ug/l	98
89) n-Butylbenzene	12.92	91	108181	25.689	ug/l	94
90) Hexachloroethane	12.99	117	32580	29.836	ug/l	70
91) 1,2-Dichlorobenzene	13.01	146	79282	39.114	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.71	75	10420	58.914	ug/l	98
93) 1,2,4-Trichlorobenzene	14.27	180	22844	15.078	ug/l	97
94) Hexachlorobutadiene	14.25	225	13468	12.770	ug/l	88

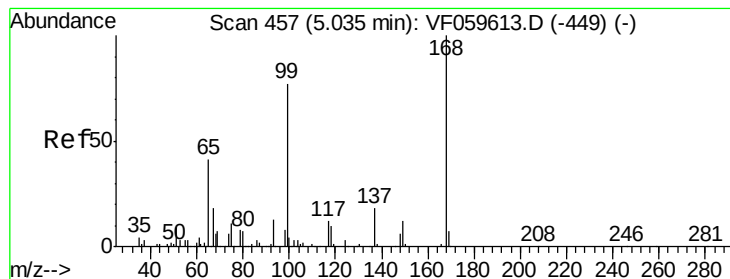
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_F\DATA\VF072318\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) Naphthalene	14.52	128	44778	18.198	ug/l	97
96) 1,2,3-Trichlorobenzene	14.66	180	16832	12.221	ug/l	92

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 457

Delta R.T. 0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

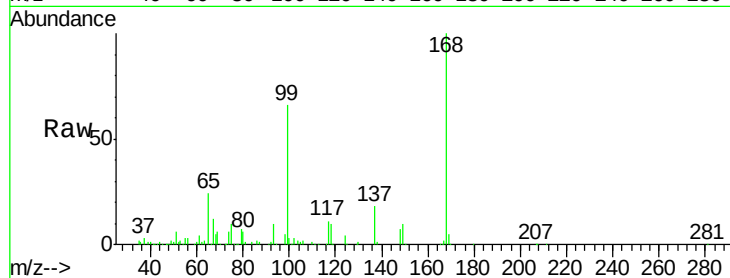
GL-TOPSOIL-09MS

Tgt Ion:168 Resp: 201279

Ion Ratio Lower Upper

168 100

99 66.3 61.5 92.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

60000

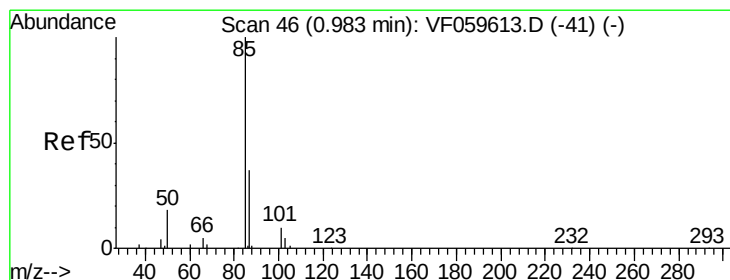
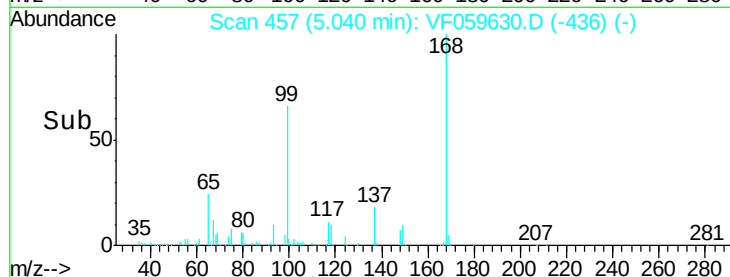
40000

20000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: 45.948 ug/l

RT: 0.98 min Scan# 45

Delta R.T. -0.01 min

Lab File: VF059630.D

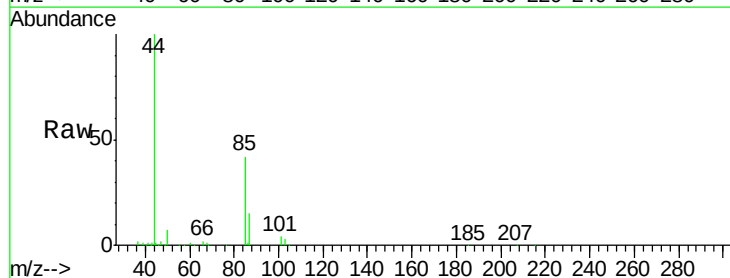
Acq: 23 Jul 2018 22:45

Tgt Ion: 85 Resp: 116042

Ion Ratio Lower Upper

85 100

87 35.2 18.3 54.9



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

0.98

40000

30000

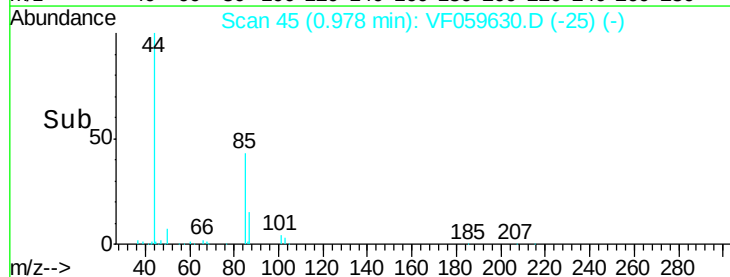
20000

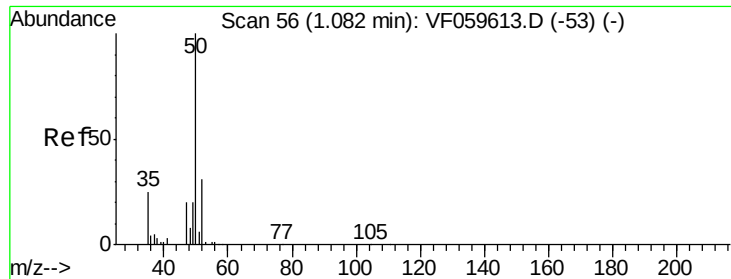
10000

0

0.90 1.00 1.10 1.20

Time-->





#3

Chloromethane

Concen: 41.930 ug/l

RT: 1.10 min Scan# 57

Delta R.T. 0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

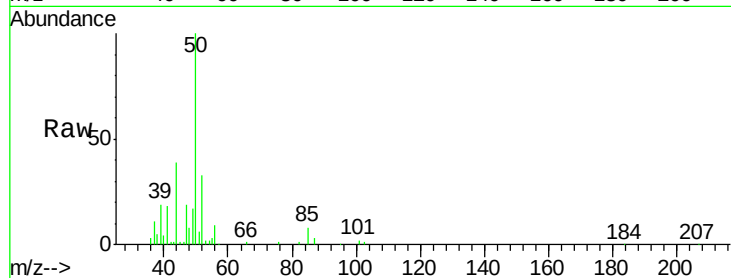
GL-TOPSOIL-09MS

Tgt Ion: 50 Resp: 48294

Ion Ratio Lower Upper

50 100

52 33.2 23.7 35.5



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

25000

20000

15000

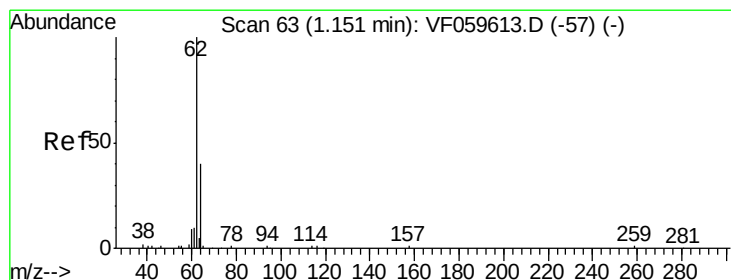
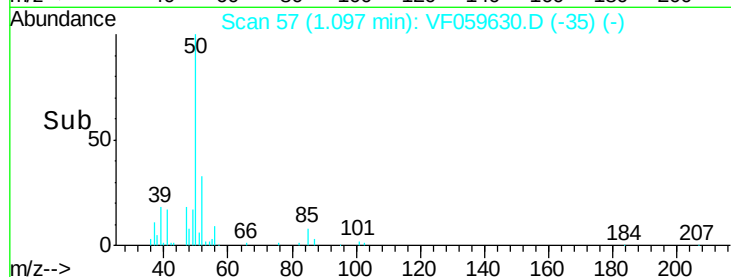
10000

5000

0

1.00 1.10 1.20 1.30

Time-->



#4

Vinyl Chloride

Concen: 46.998 ug/l

RT: 1.16 min Scan# 63

Delta R.T. 0.00 min

Lab File: VF059630.D

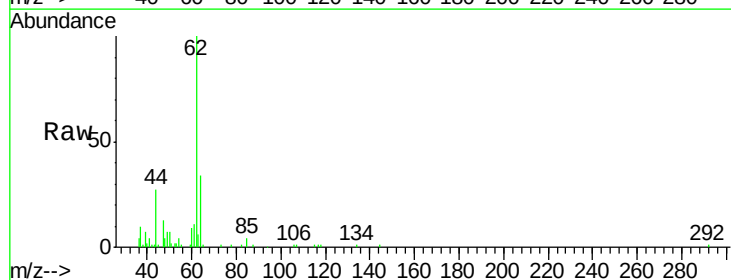
Acq: 23 Jul 2018 22:45

Tgt Ion: 62 Resp: 61144

Ion Ratio Lower Upper

62 100

64 33.7 32.2 48.4



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

20000

15000

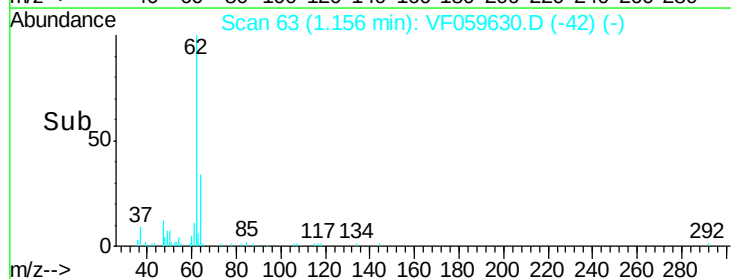
10000

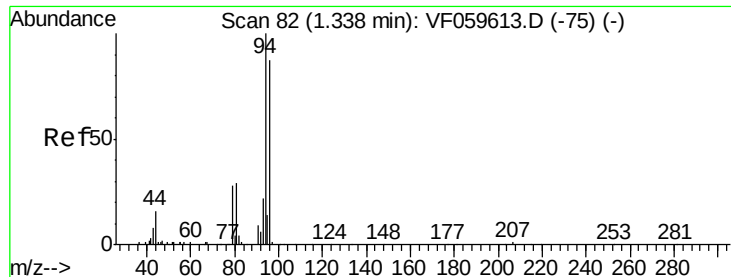
5000

0

1.00 1.10 1.20 1.30

Time-->





#5

Bromomethane

Concen: 32.926 ug/l

RT: 1.33 min Scan# 81

Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

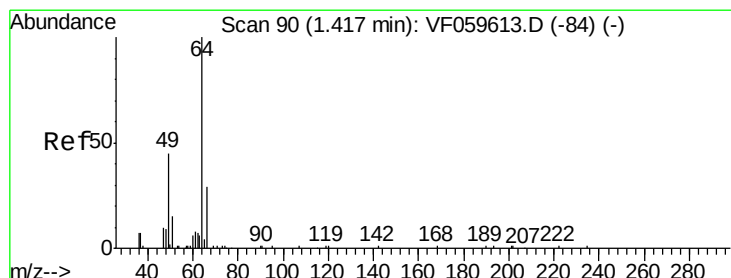
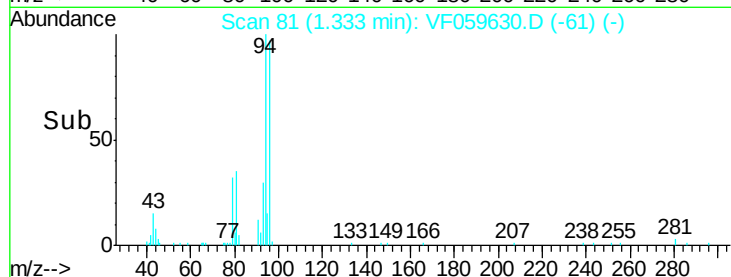
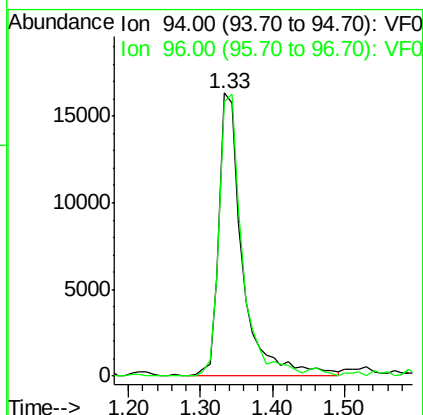
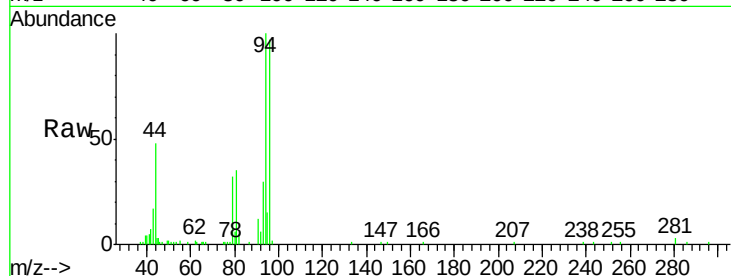
GL-TOPSOIL-09MS

Tgt Ion: 94 Resp: 37068

Ion Ratio Lower Upper

94 100

96 96.8 69.8 104.8



#6

Chloroethane

Concen: 46.606 ug/l

RT: 1.42 min Scan# 90

Delta R.T. 0.00 min

Lab File: VF059630.D

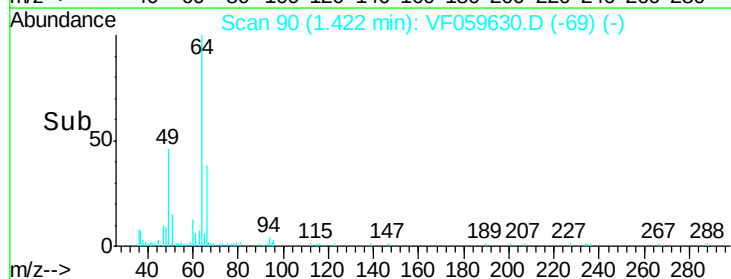
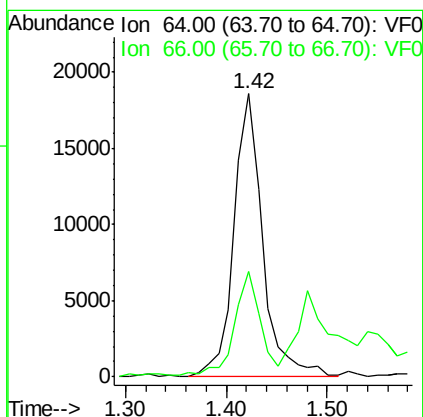
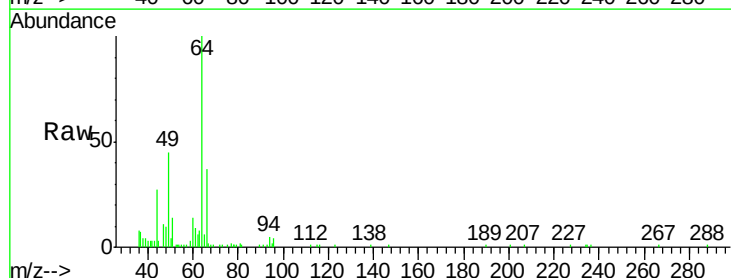
Acq: 23 Jul 2018 22:45

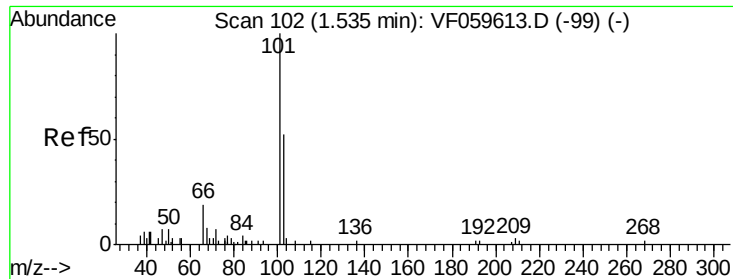
Tgt Ion: 64 Resp: 37005

Ion Ratio Lower Upper

64 100

66 39.0 23.7 35.5#





#7

Trichlorofluoromethane

Concen: 19.331 ug/l

RT: 1.48 min Scan# 96

Delta R.T. -0.05 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

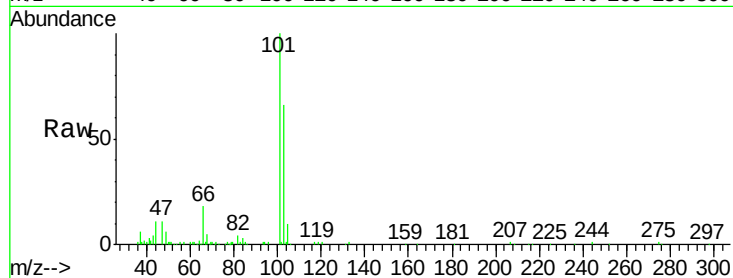
GL-TOPSOIL-09MS

Tgt Ion:101 Resp: 68385

Ion Ratio Lower Upper

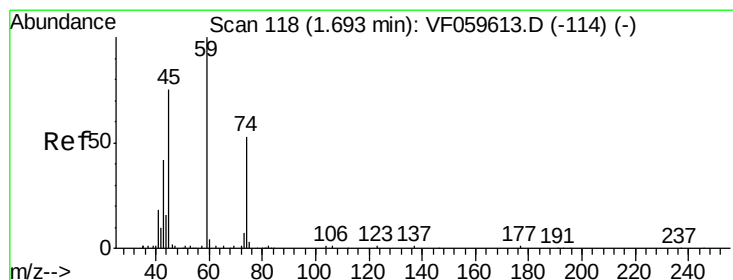
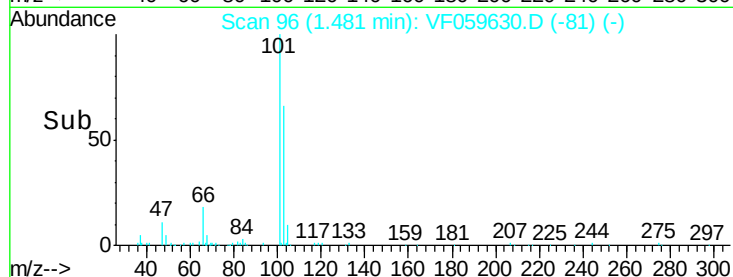
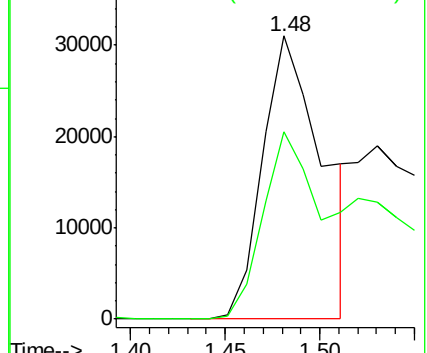
101 100

103 66.0 48.2 72.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 51.686 ug/l

RT: 1.70 min Scan# 118

Delta R.T. 0.00 min

Lab File: VF059630.D

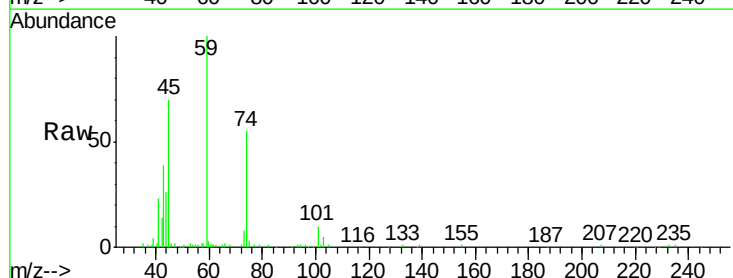
Acq: 23 Jul 2018 22:45

Tgt Ion: 74 Resp: 26245

Ion Ratio Lower Upper

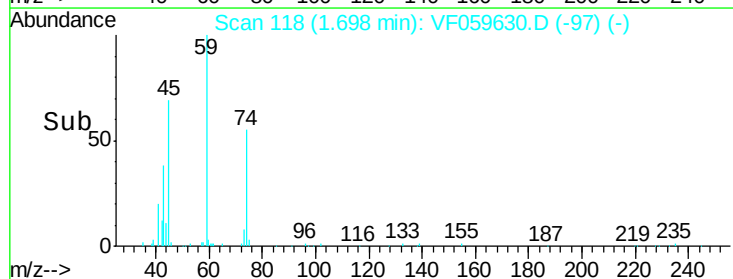
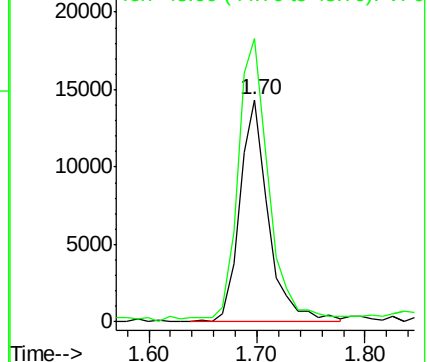
74 100

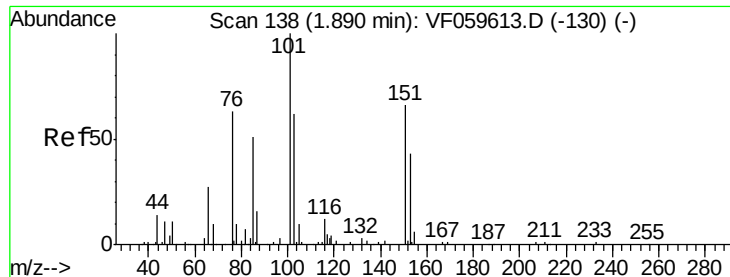
45 127.2 72.0 215.9



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 42.589 ug/l

RT: 1.90 min Scan# 138

Delta R.T. 0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

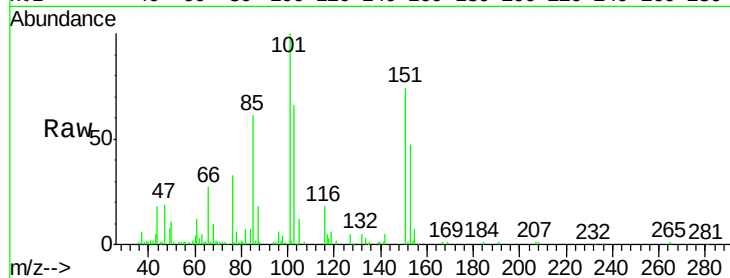
Tgt Ion:101 Resp: 75804

Ion Ratio Lower Upper

101 100

85 60.9 40.2 60.2#

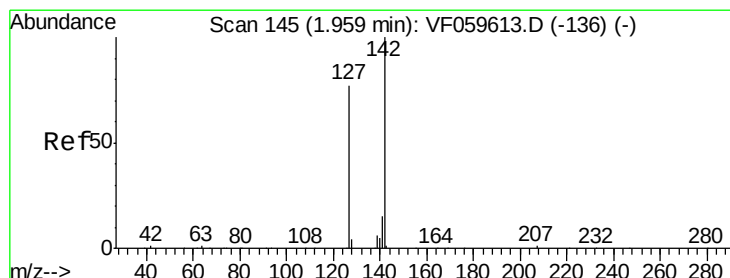
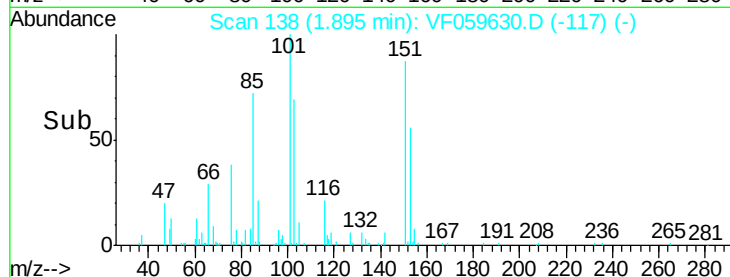
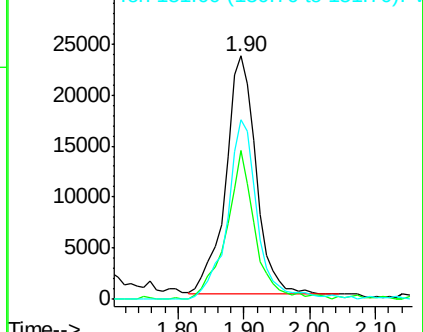
151 73.7 51.4 77.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 31.818 ug/l

RT: 1.95 min Scan# 144

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

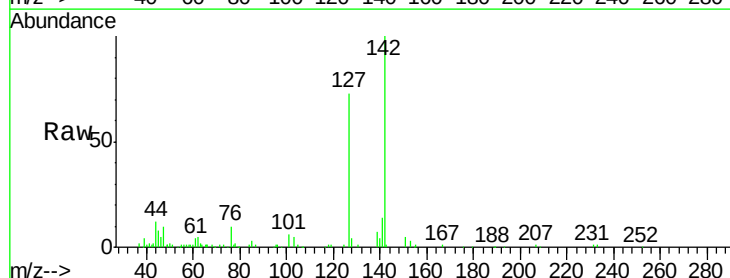
Tgt Ion:142 Resp: 95229

Ion Ratio Lower Upper

142 100

127 72.7 61.2 91.8

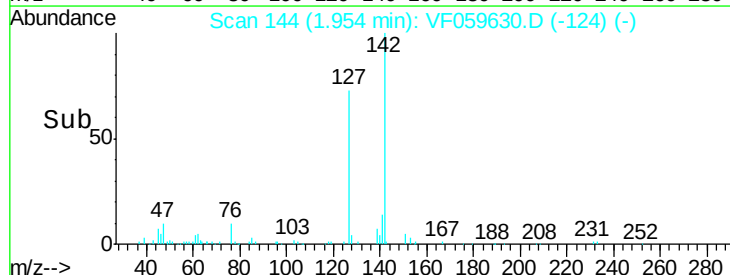
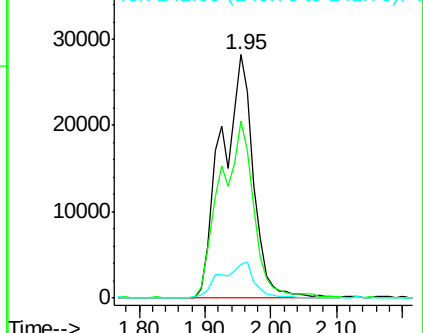
141 13.6 12.0 18.0

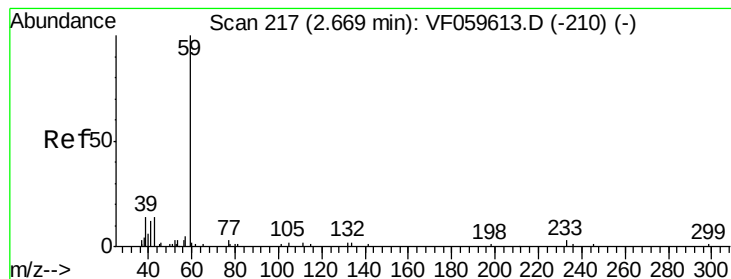


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



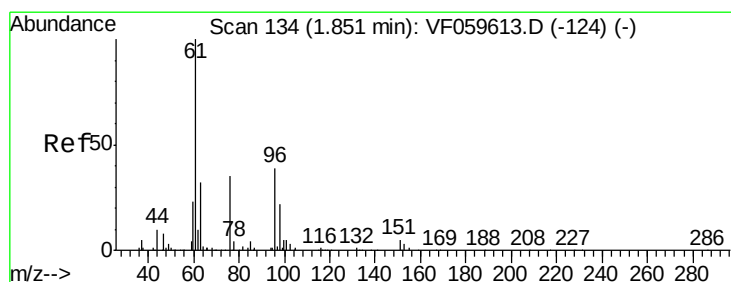
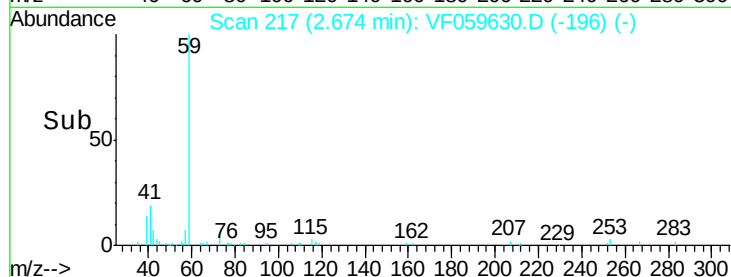
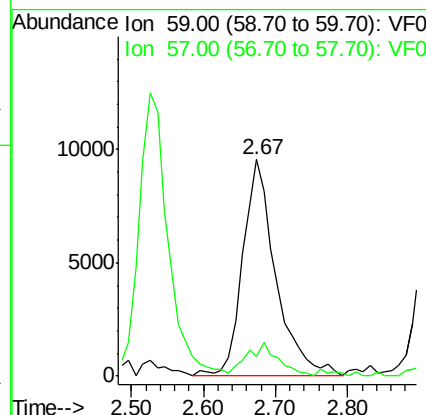
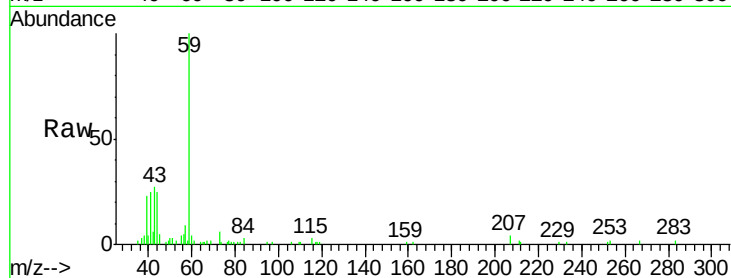


#11

Tert butyl alcohol
 Concen: 238.270 ug/l
 RT: 2.67 min Scan# 217
 Delta R.T. 0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

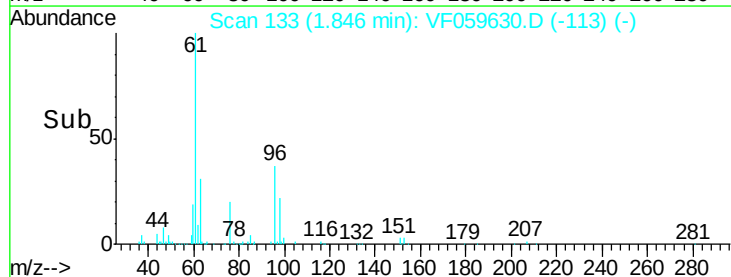
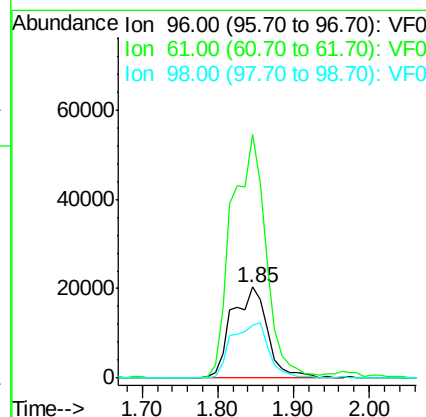
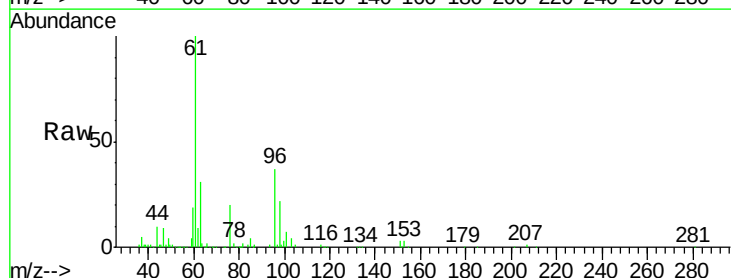
Tgt Ion: 59 Resp: 30718
 Ion Ratio Lower Upper
 59 100
 57 9.3 8.6 12.8

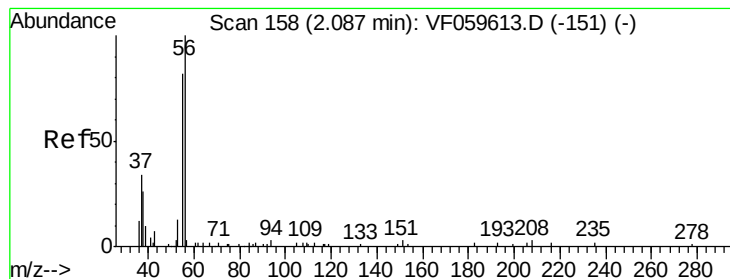


#12

1,1-Dichloroethene
 Concen: 47.408 ug/l
 RT: 1.85 min Scan# 133
 Delta R.T. -0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Tgt Ion: 96 Resp: 66887
 Ion Ratio Lower Upper
 96 100
 61 268.1 207.2 310.8
 98 58.6 45.5 68.3





#13

Acrolein

Concen: 5.151 ug/l

RT: 2.12 min Scan# 161

Delta R.T. 0.03 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

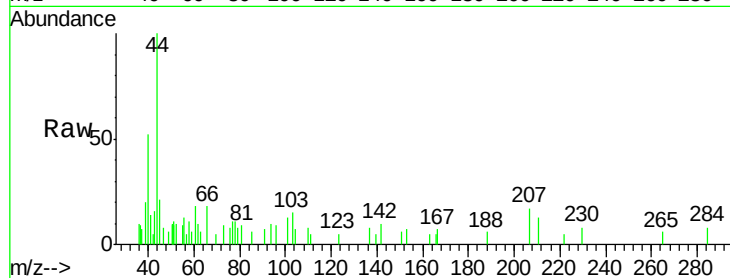
GL-TOPSOIL-09MS

Tgt Ion: 56 Resp: 333

Ion Ratio Lower Upper

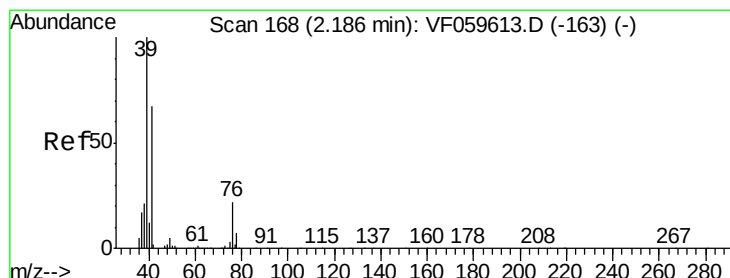
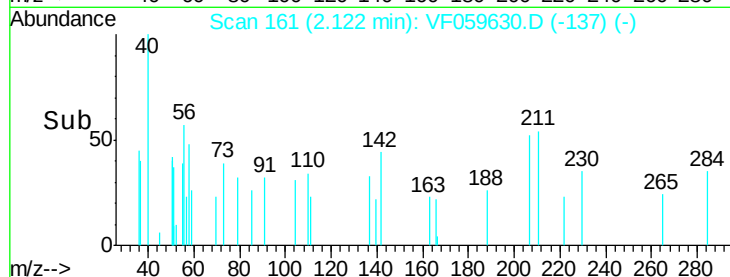
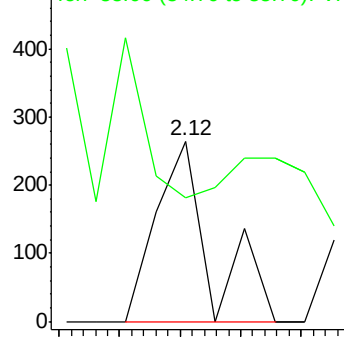
56 100

55 68.3 65.6 98.4



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 31.613 ug/l

RT: 2.18 min Scan# 167

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

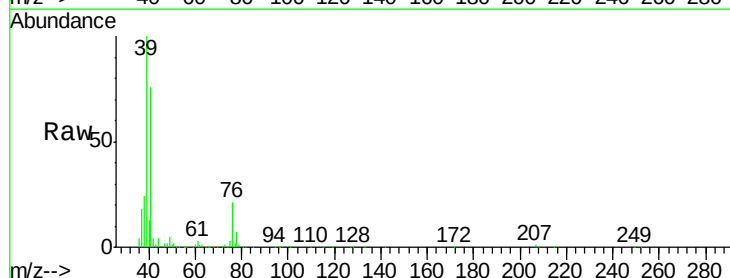
Tgt Ion: 41 Resp: 80746

Ion Ratio Lower Upper

41 100

39 131.2 119.0 178.4

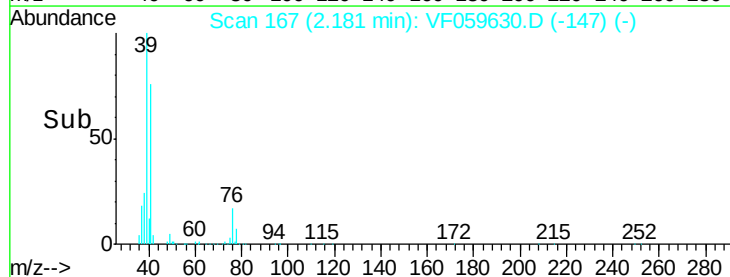
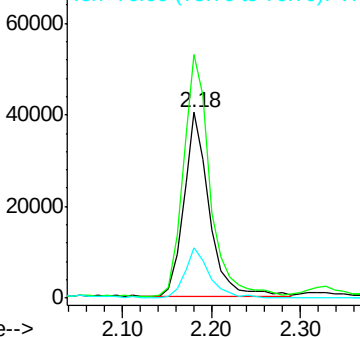
76 27.2 26.3 39.5

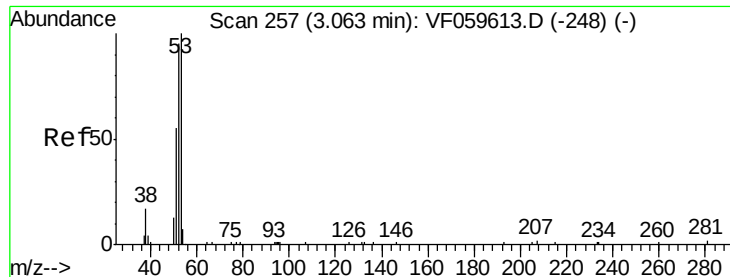


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 196.731 ug/l

RT: 3.07 min Scan# 257

Delta R.T. 0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

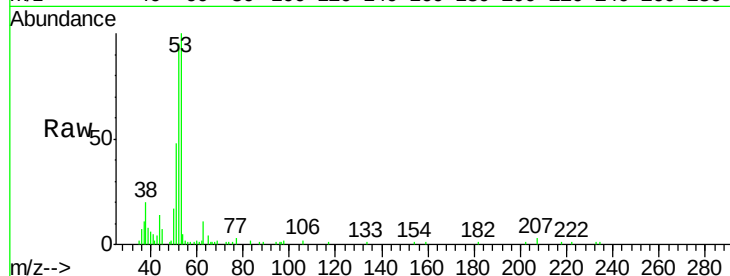
Tgt Ion: 53 Resp: 39124

Ion Ratio Lower Upper

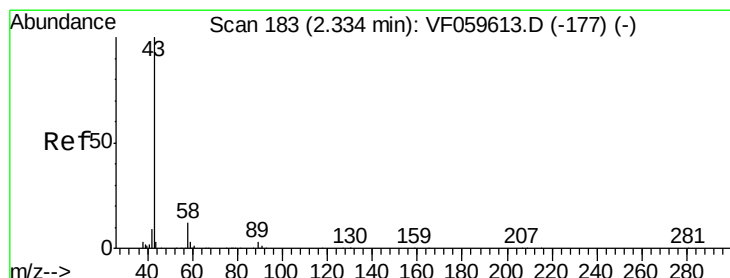
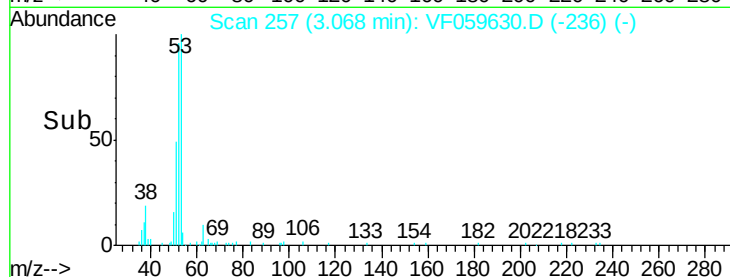
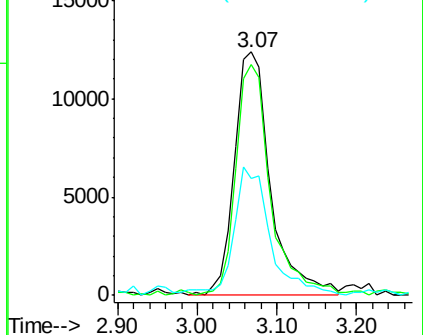
53 100

52 94.7 76.2 114.2

51 48.0 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: 181.468 ug/l

RT: 2.33 min Scan# 182

Delta R.T. -0.00 min

Lab File: VF059630.D

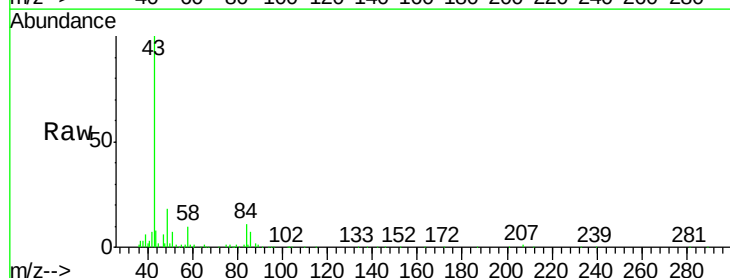
Acq: 23 Jul 2018 22:45

Tgt Ion: 43 Resp: 98549

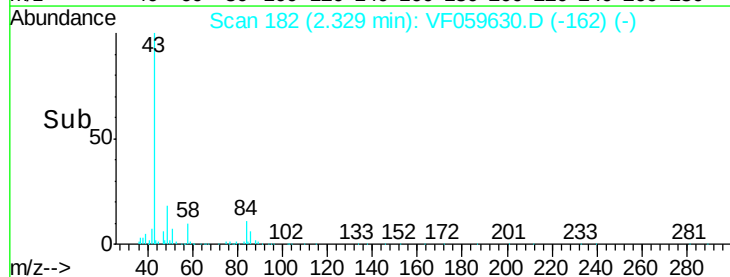
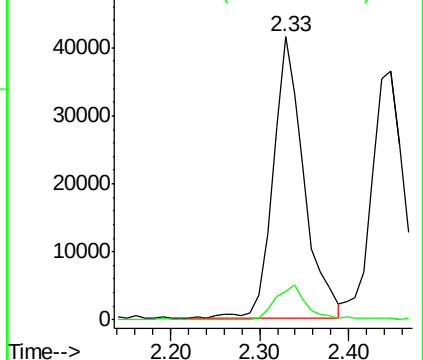
Ion Ratio Lower Upper

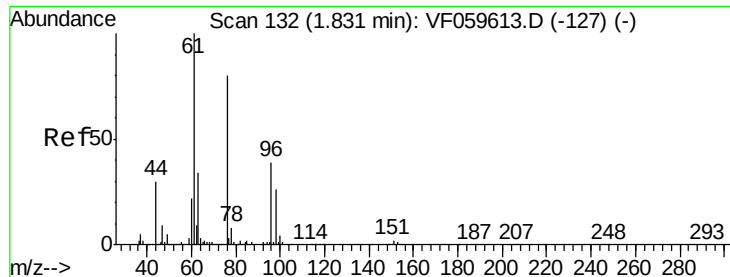
43 100

58 10.2 9.8 14.8



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





#17

Carbon Disulfide

Concen: 19.985 ug/l

RT: 1.84 min Scan# 132

Delta R.T. 0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

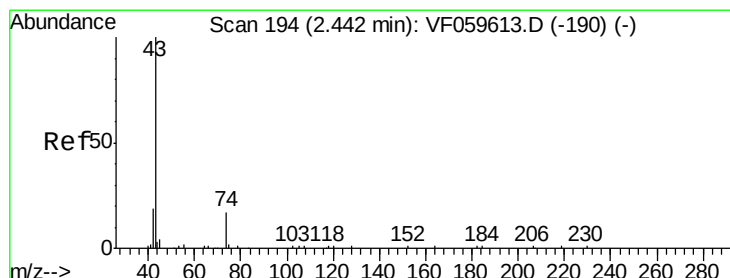
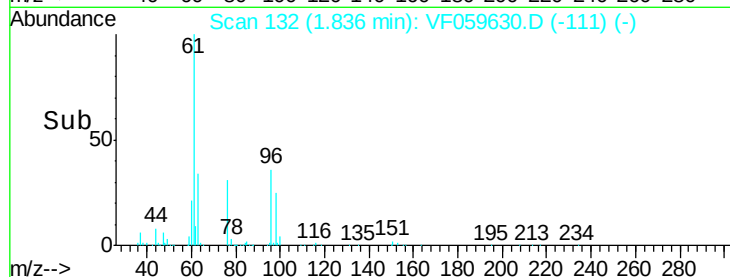
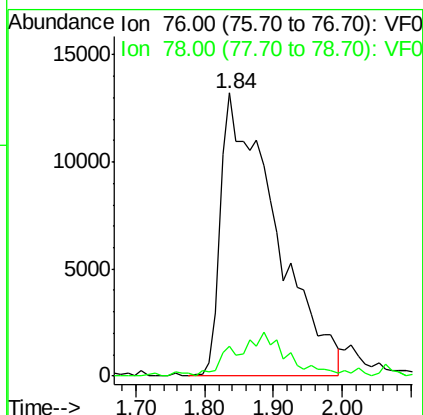
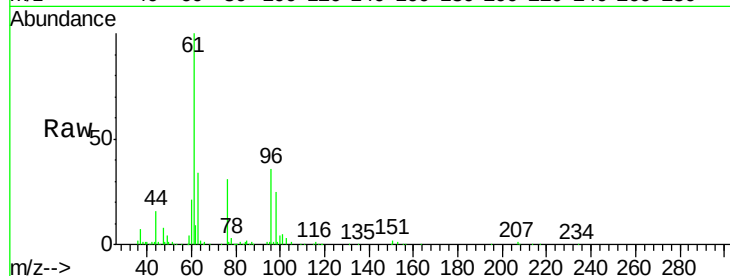
GL-TOPSOIL-09MS

Tgt Ion: 76 Resp: 72987

Ion Ratio Lower Upper

76 100

78 10.4 7.7 11.5



#18

Methyl Acetate

Concen: 129.200 ug/l

RT: 2.45 min Scan# 194

Delta R.T. 0.01 min

Lab File: VF059630.D

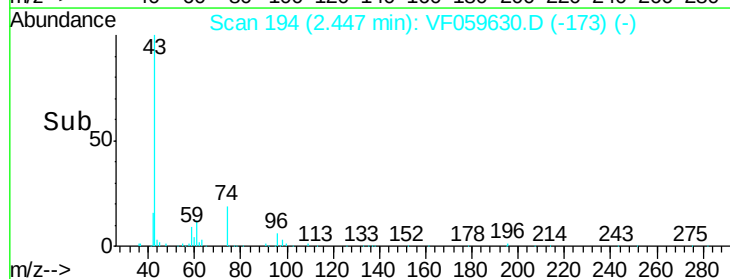
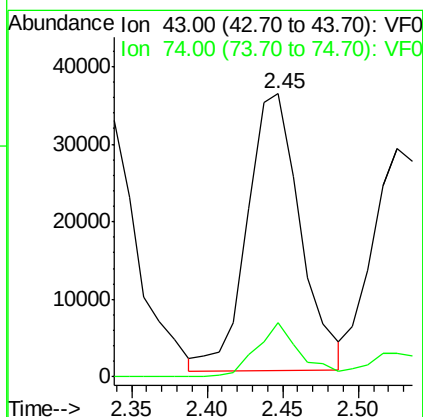
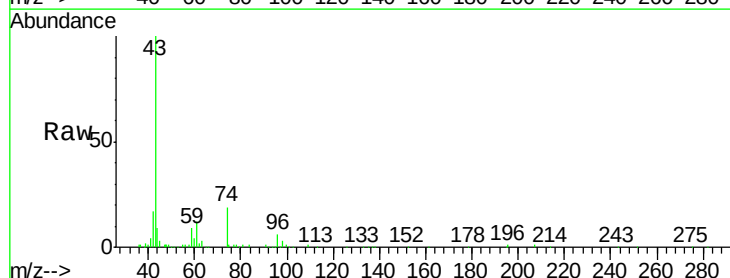
Acq: 23 Jul 2018 22:45

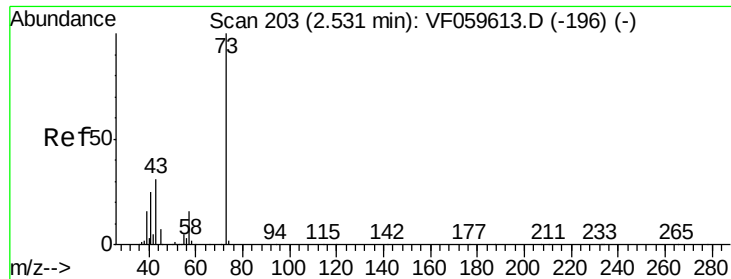
Tgt Ion: 43 Resp: 87845

Ion Ratio Lower Upper

43 100

74 19.2 11.4 17.0#



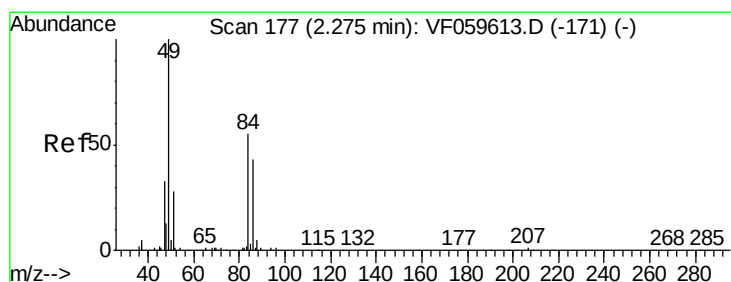
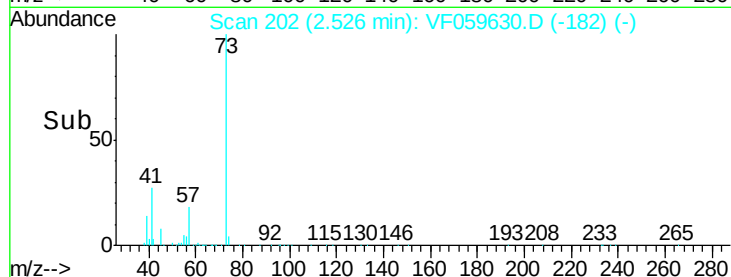
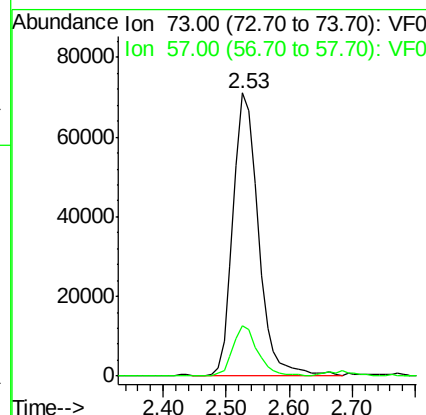
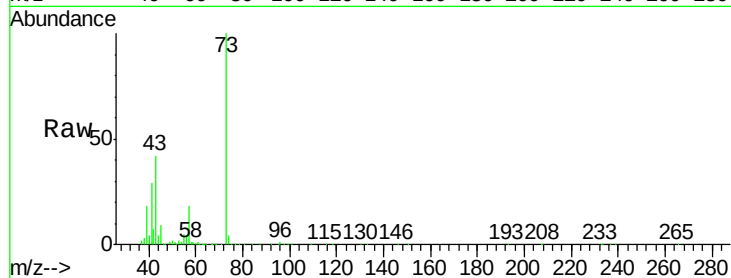


#19

Methyl tert-butyl Ether
Concen: 48.392 ug/l
RT: 2.53 min Scan# 202
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

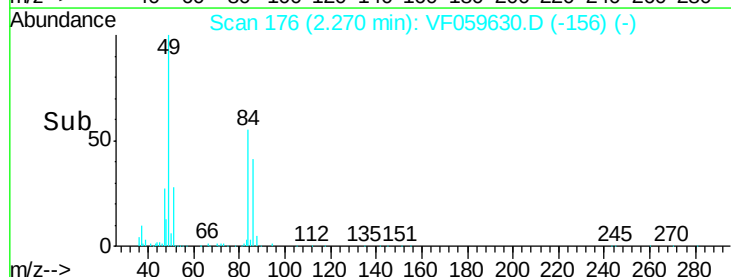
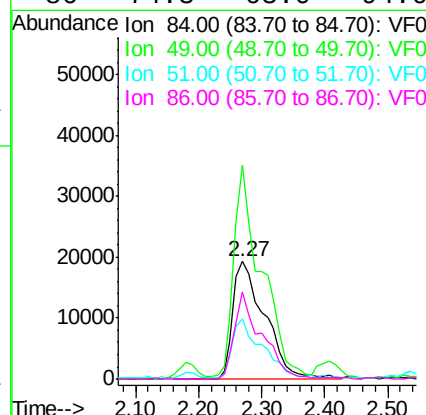
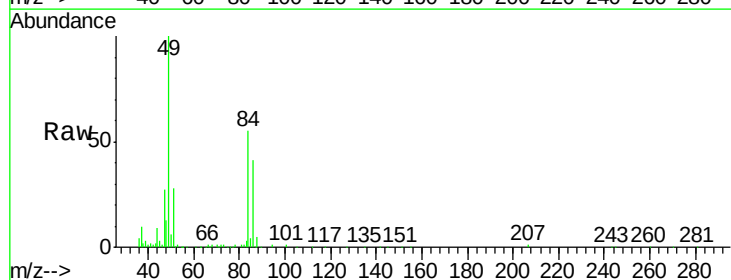
Tgt Ion: 73 Resp: 198987
Ion Ratio Lower Upper
73 100
57 17.6 13.2 19.8

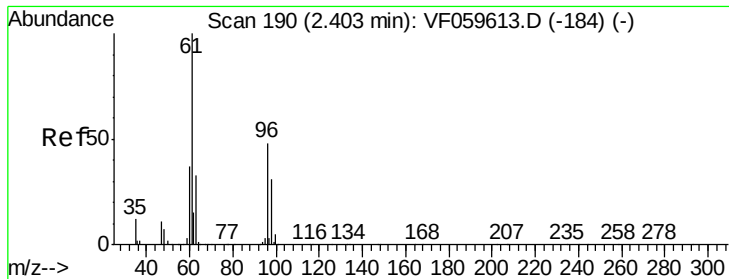


#20

Methylene Chloride
Concen: 55.254 ug/l
RT: 2.27 min Scan# 176
Delta R.T. -0.00 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion: 84 Resp: 67565
Ion Ratio Lower Upper
84 100
49 182.1 148.6 222.8
51 51.8 42.7 64.1
86 74.3 63.0 94.6





#21

trans-1,2-Dichloroethene

Concen: 44.181 ug/l

RT: 2.41 min Scan# 190

Delta R.T. 0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

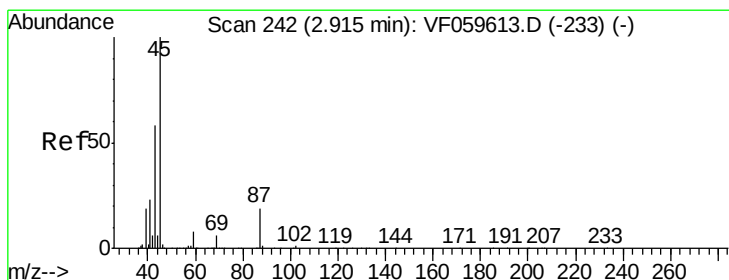
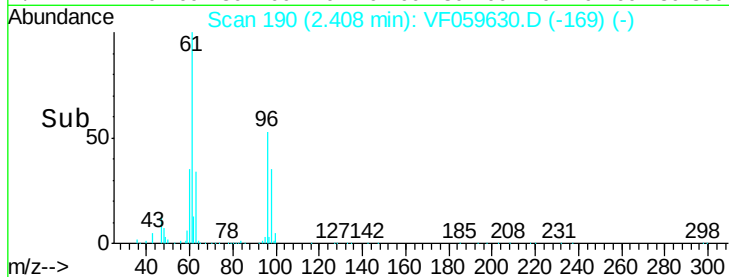
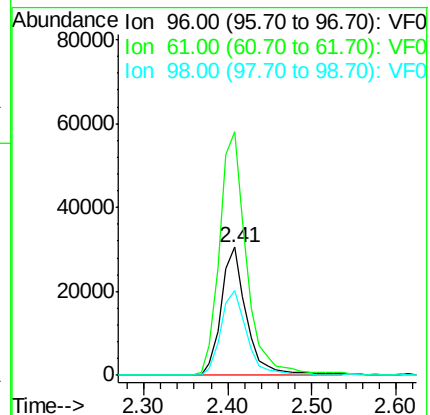
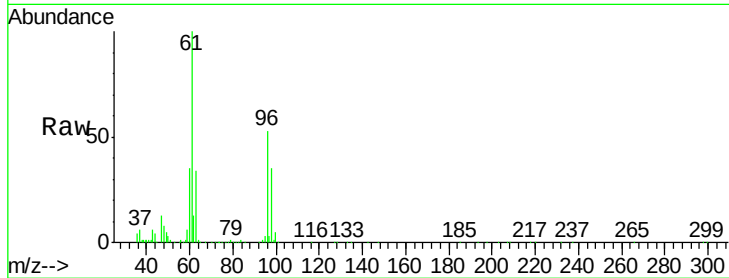
Tgt Ion: 96 Resp: 64072

Ion Ratio Lower Upper

96 100

61 190.2 167.0 250.6

98 66.7 51.8 77.8



#22

Diisopropyl ether

Concen: 51.038 ug/l

RT: 2.92 min Scan# 242

Delta R.T. 0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion: 45 Resp: 238903

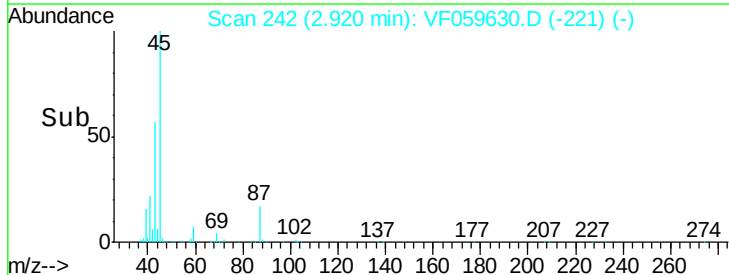
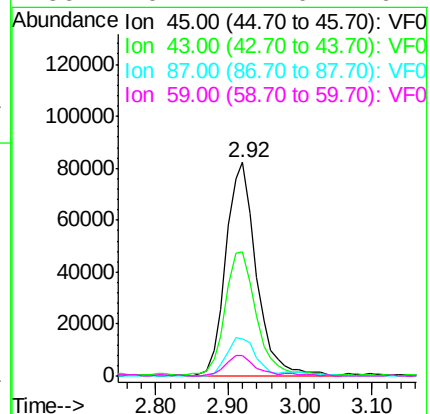
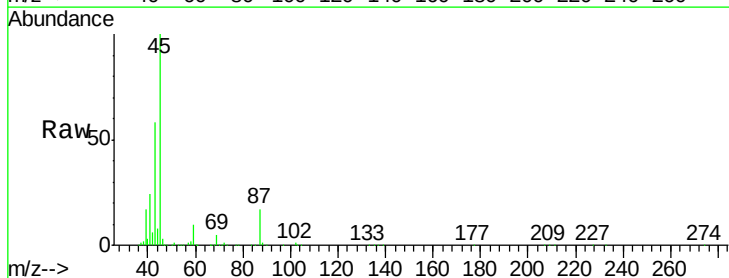
Ion Ratio Lower Upper

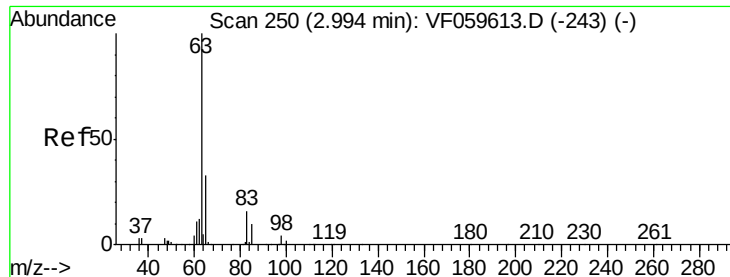
45 100

43 57.9 46.7 70.1

87 17.4 15.0 22.6

59 9.7 7.0 10.4





#24

1,1-Dichloroethane

Concen: 50.549 ug/l

RT: 2.99 min Scan# 249

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

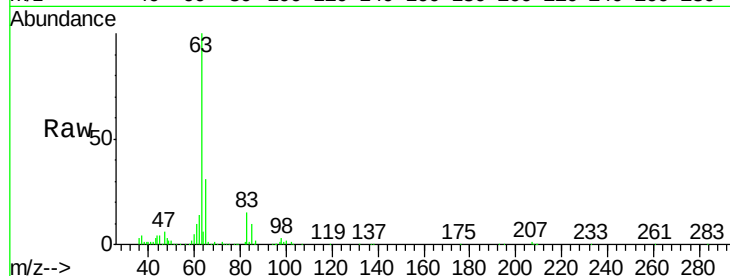
Tgt Ion: 63 Resp: 169599

Ion Ratio Lower Upper

63 100

98 3.4 1.9 5.7

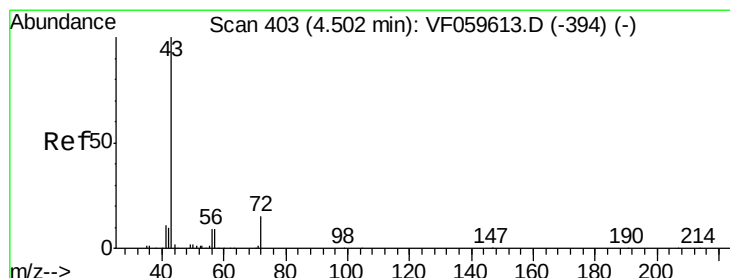
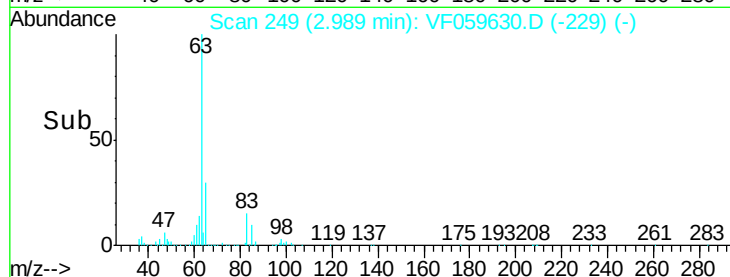
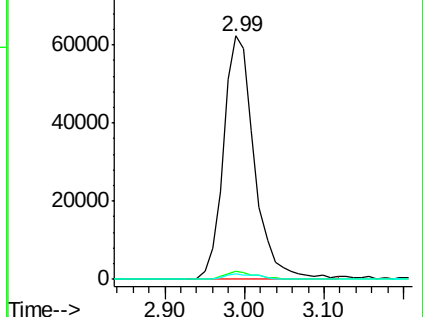
100 2.3 1.2 3.6



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0



#25

2-Butanone

Concen: 187.685 ug/l

RT: 4.50 min Scan# 402

Delta R.T. -0.01 min

Lab File: VF059630.D

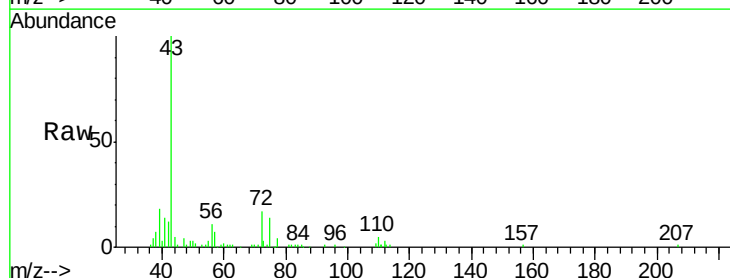
Acq: 23 Jul 2018 22:45

Tgt Ion: 43 Resp: 105085

Ion Ratio Lower Upper

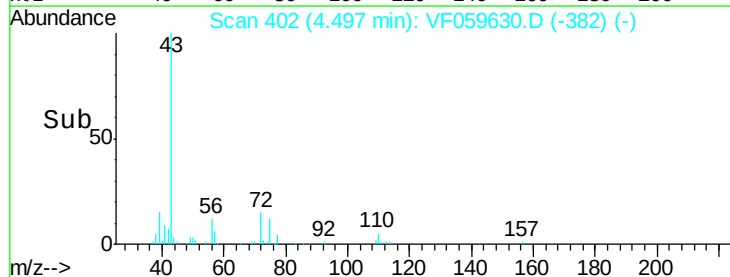
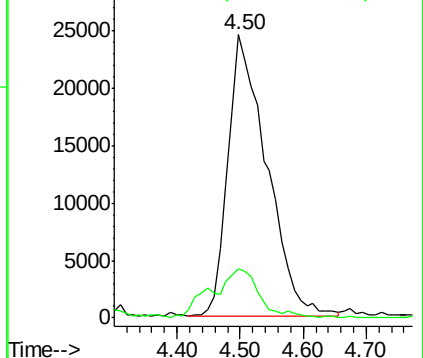
43 100

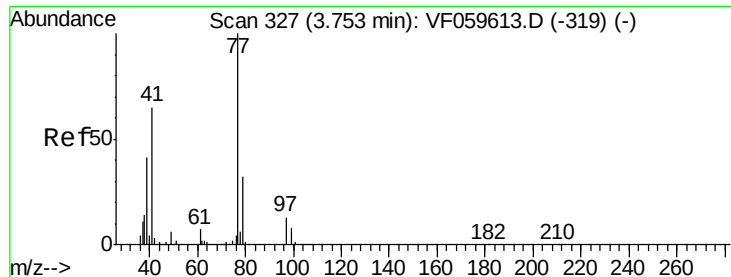
72 17.4 12.9 19.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

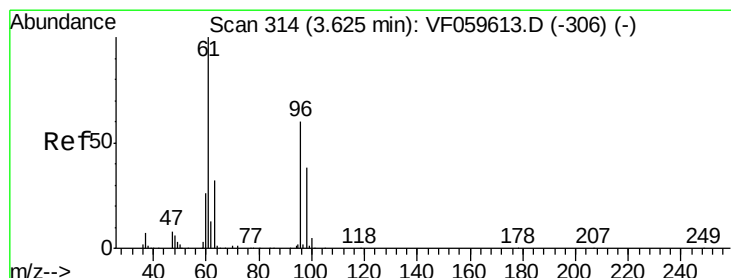
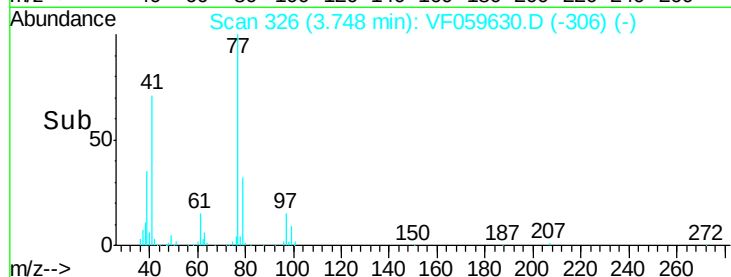
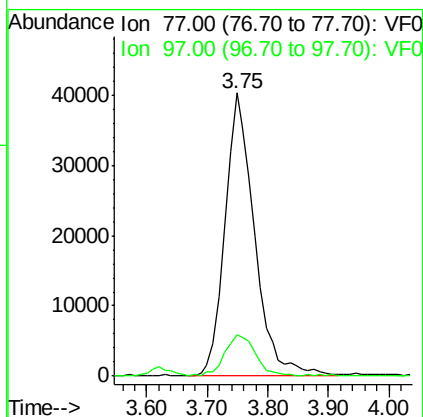
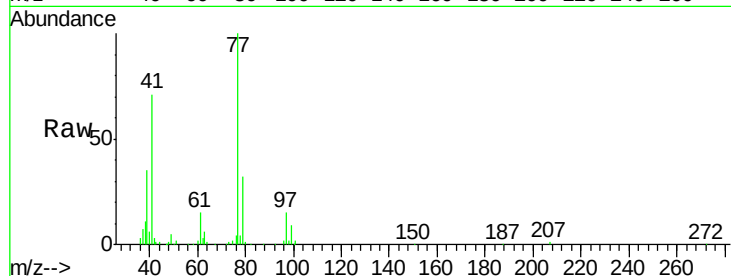




#26
 2,2-Dichloropropane
 Concen: 48.299 ug/l
 RT: 3.75 min Scan# 326
 Delta R.T. -0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

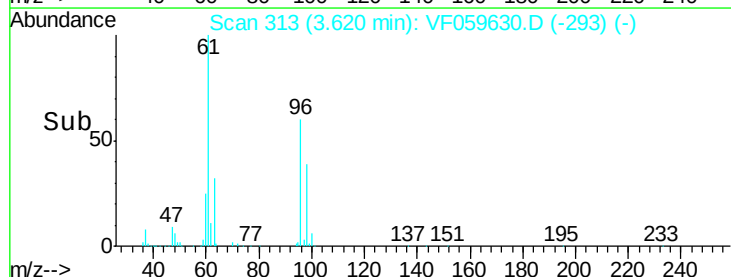
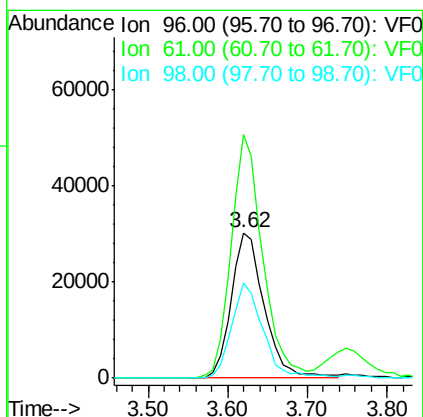
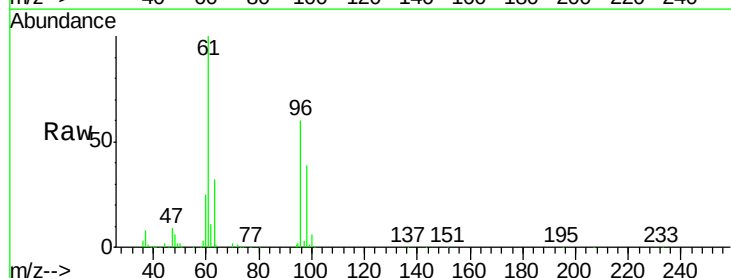
Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

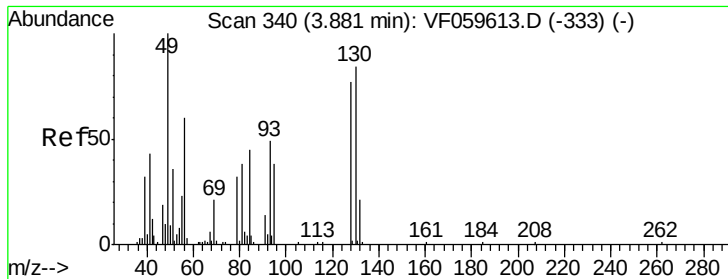
Tgt Ion: 77 Resp: 136575
 Ion Ratio Lower Upper
 77 100
 97 14.8 7.1 21.3



#27
 cis-1,2-Dichloroethene
 Concen: 52.610 ug/l
 RT: 3.62 min Scan# 313
 Delta R.T. -0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Tgt Ion: 96 Resp: 87448
 Ion Ratio Lower Upper
 96 100
 61 167.5 0.0 335.2
 98 65.2 0.0 126.6





#28

Bromochloromethane

Concen: 48.916 ug/l

RT: 3.88 min Scan# 339

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

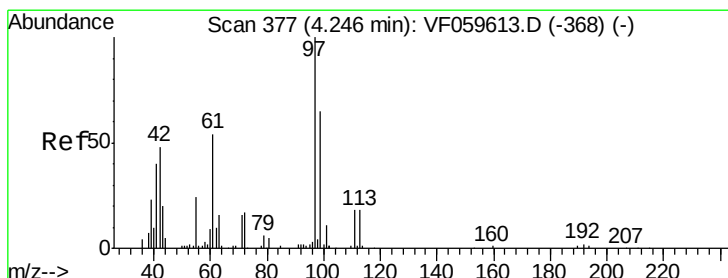
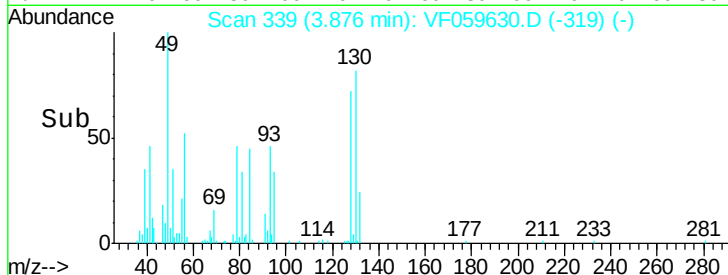
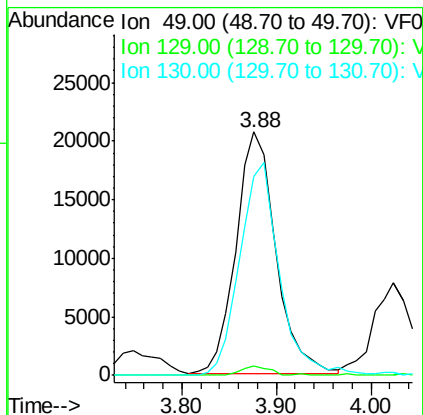
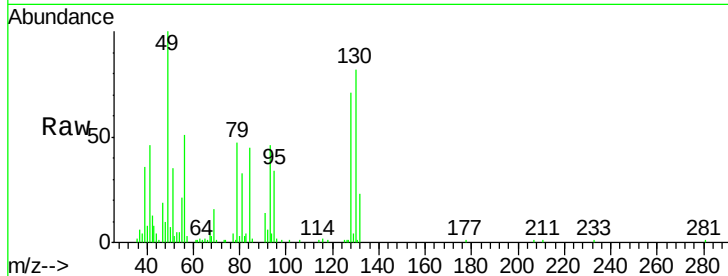
Tgt Ion: 49 Resp: 60332

Ion Ratio Lower Upper

49 100

129 3.9 0.0 4.6

130 81.6 67.1 100.7



#29

Tetrahydrofuran

Concen: 219.585 ug/l

RT: 4.24 min Scan# 376

Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

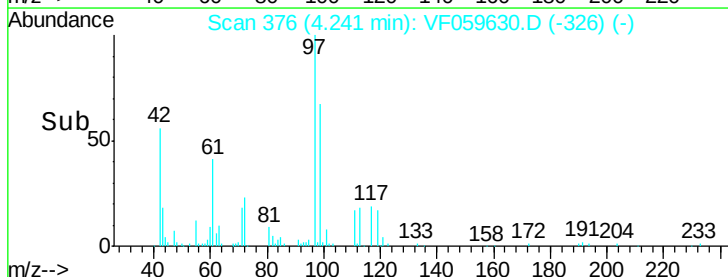
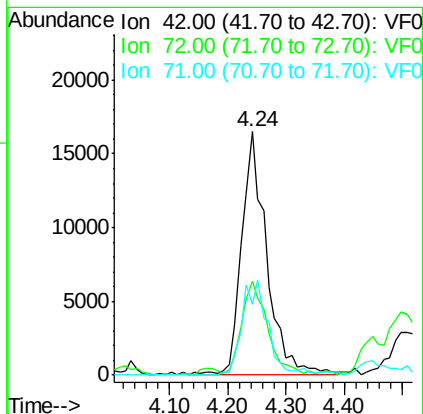
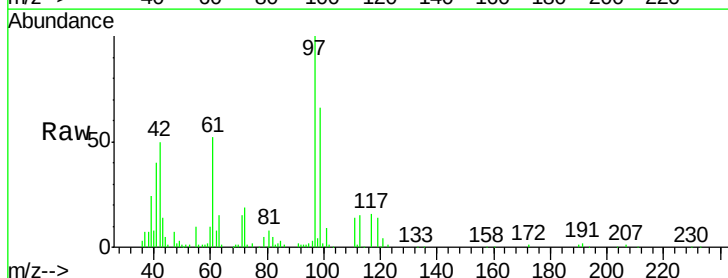
Tgt Ion: 42 Resp: 49811

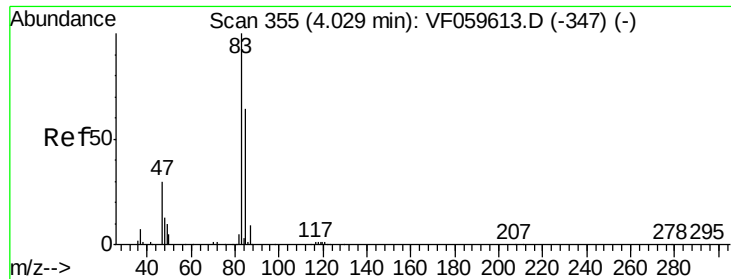
Ion Ratio Lower Upper

42 100

72 39.9 27.9 41.9

71 38.7 29.3 43.9

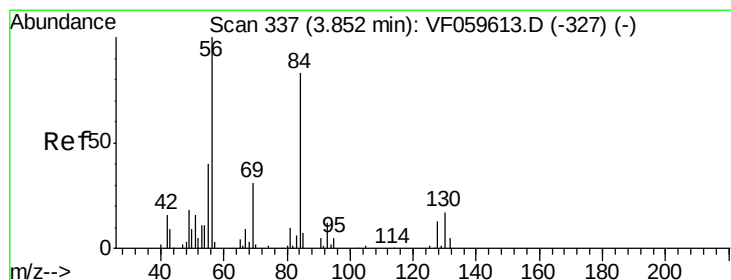
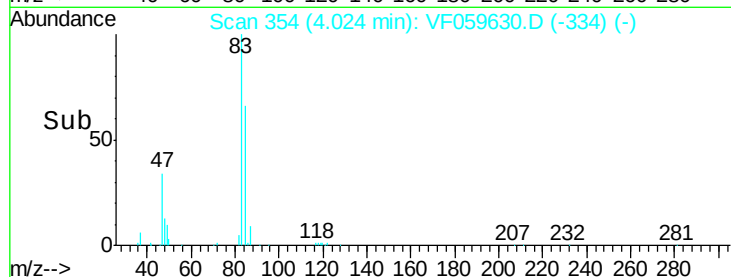
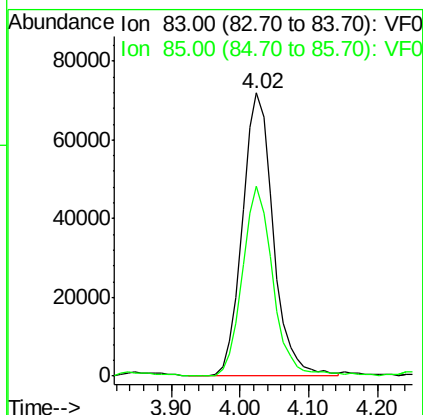
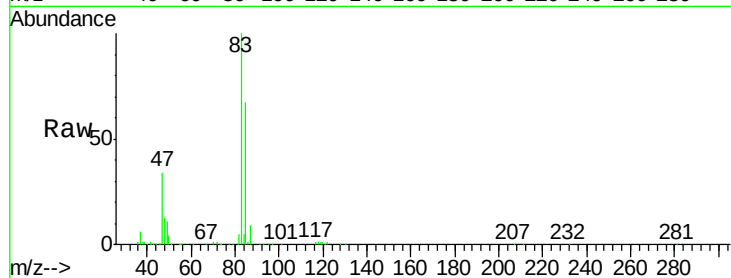




#30
Chloroform
Concen: 48.773 ug/l
RT: 4.02 min Scan# 354
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

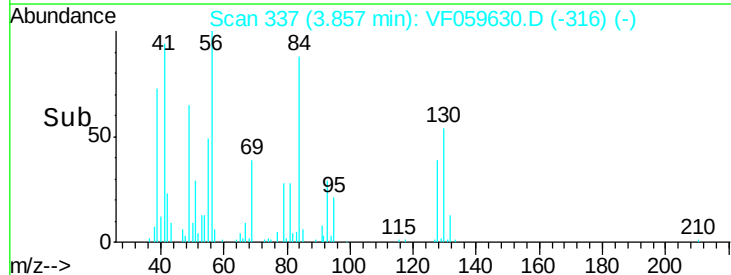
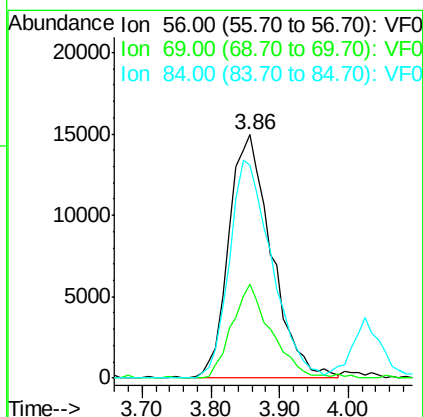
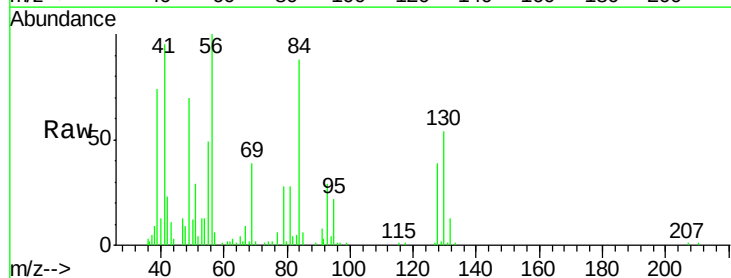
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

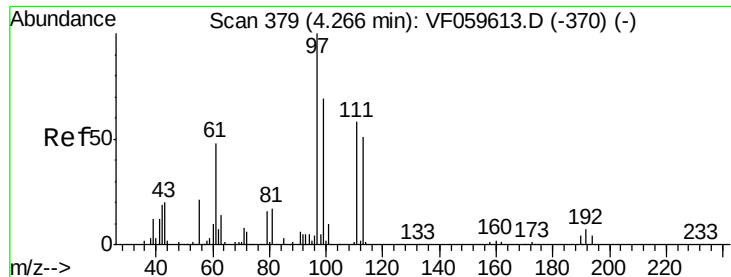
Tgt Ion: 83 Resp: 224947
Ion Ratio Lower Upper
83 100
85 67.0 51.1 76.7



#31
Cyclohexane
Concen: 34.478 ug/l
RT: 3.86 min Scan# 337
Delta R.T. 0.00 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion: 56 Resp: 64367
Ion Ratio Lower Upper
56 100
69 38.8 24.6 37.0#
84 87.6 66.6 99.8





#32

1,1,1-Trichloroethane

Concen: 47.930 ug/l

RT: 4.26 min Scan# 378

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

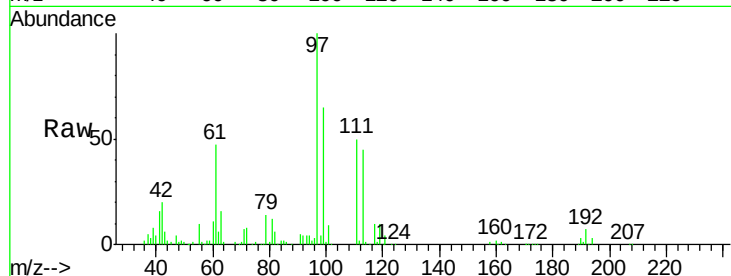
Tgt Ion: 97 Resp: 200186

Ion Ratio Lower Upper

97 100

99 64.8 55.4 83.2

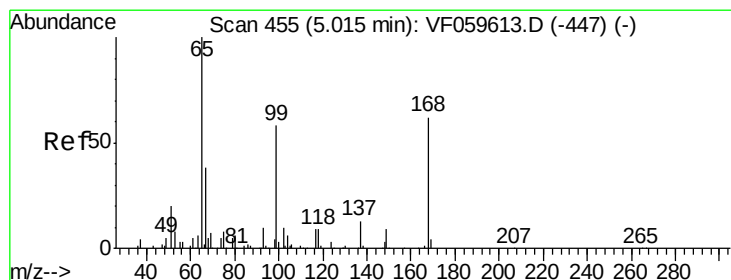
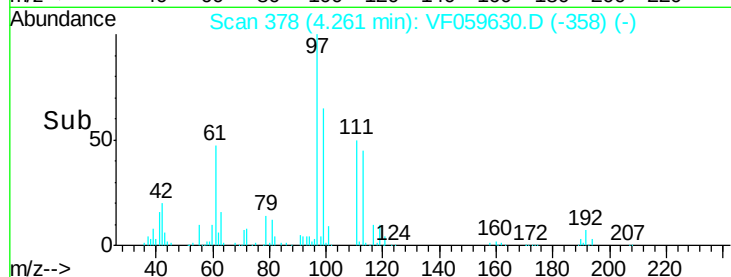
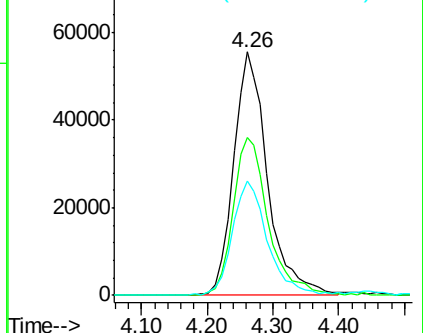
61 47.0 39.3 58.9



Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 50.810 ug/l

RT: 5.01 min Scan# 454

Delta R.T. -0.01 min

Lab File: VF059630.D

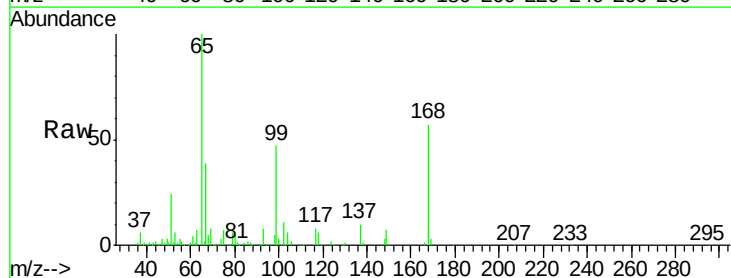
Acq: 23 Jul 2018 22:45

Tgt Ion: 65 Resp: 160933

Ion Ratio Lower Upper

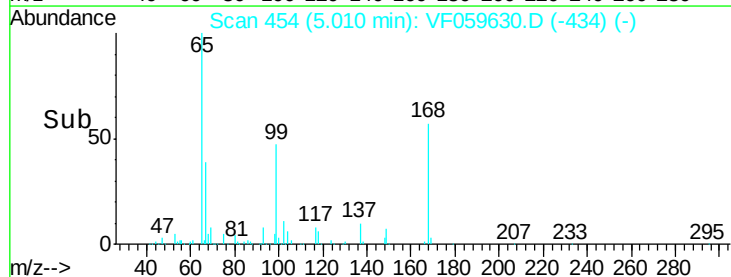
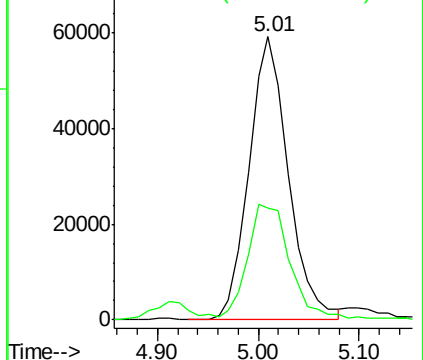
65 100

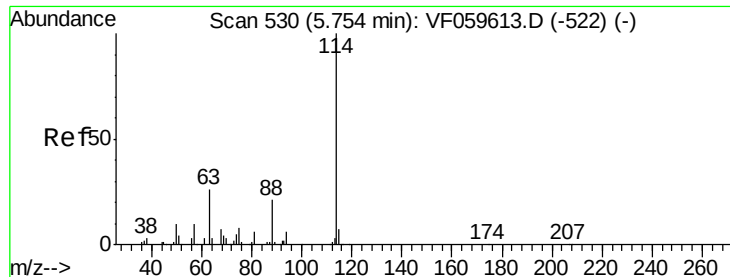
67 39.4 0.0 83.8



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

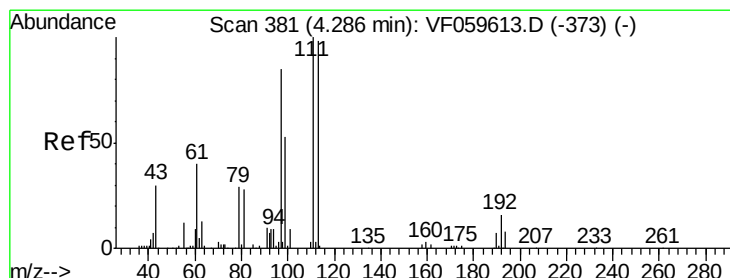
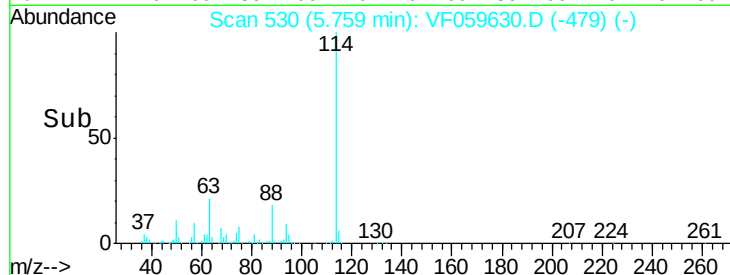
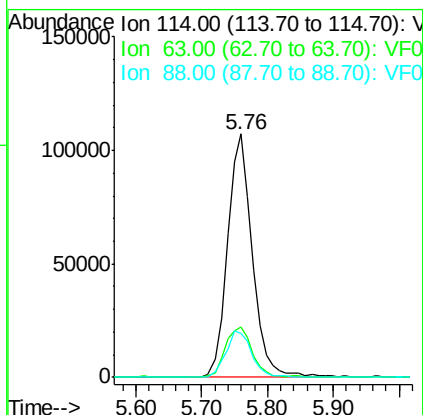
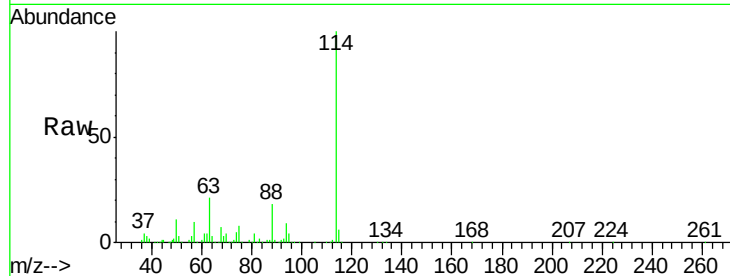




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.76 min Scan# 530
 Delta R.T. 0.00 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

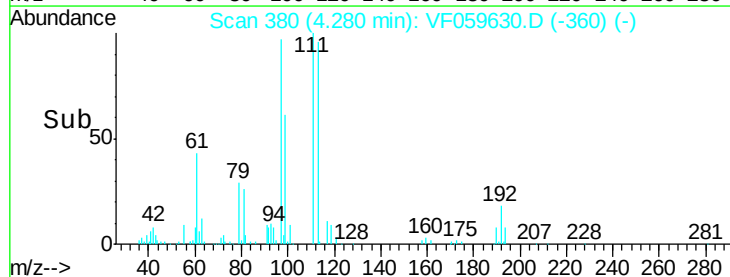
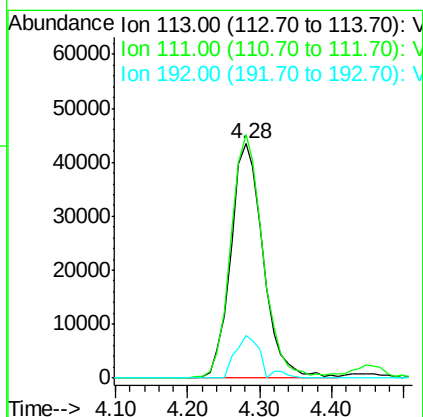
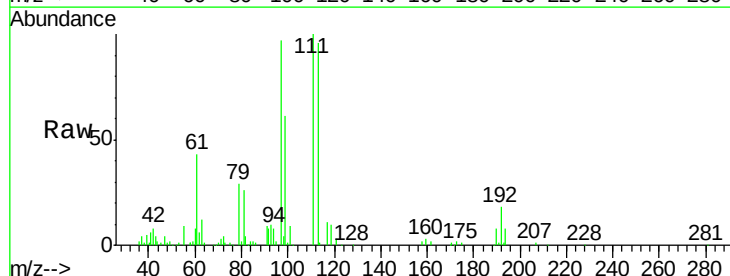
Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

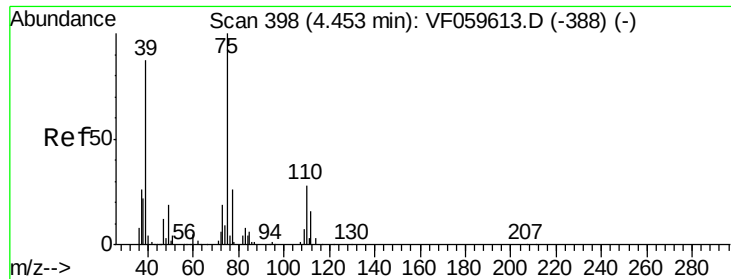
Tgt Ion:114 Resp: 283921
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 51.8
 88 18.1 0.0 42.8



#35
 Dibromofluoromethane
 Concen: 52.056 ug/l
 RT: 4.28 min Scan# 380
 Delta R.T. -0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Tgt Ion:113 Resp: 136363
 Ion Ratio Lower Upper
 113 100
 111 103.8 81.5 122.3
 192 18.2 13.4 20.2

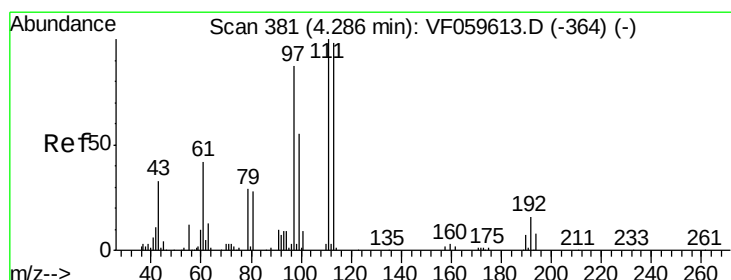
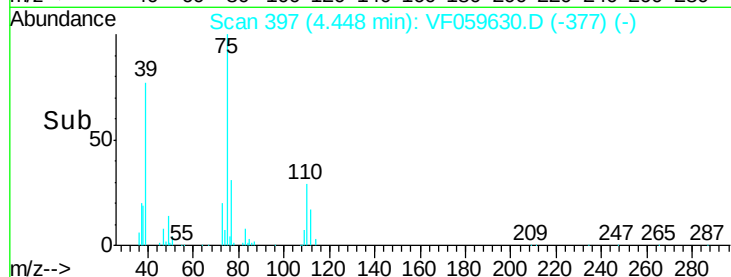
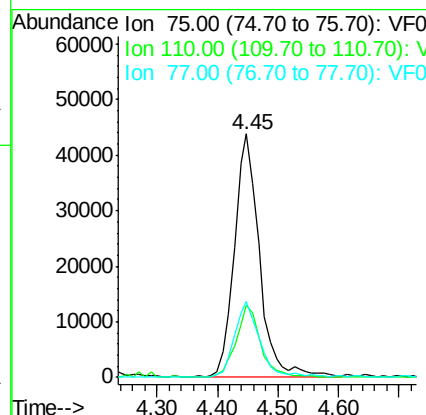
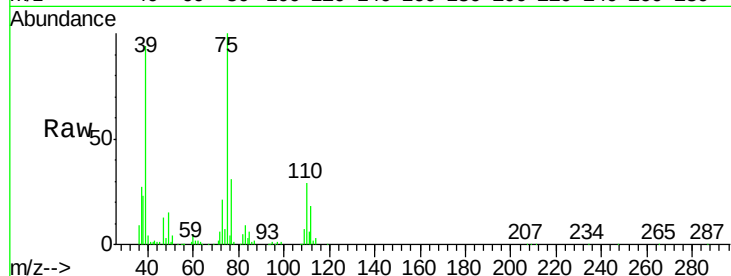




#36
 1,1-Dichloropropene
 Concen: 43.961 ug/l
 RT: 4.45 min Scan# 397
 Delta R.T. -0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

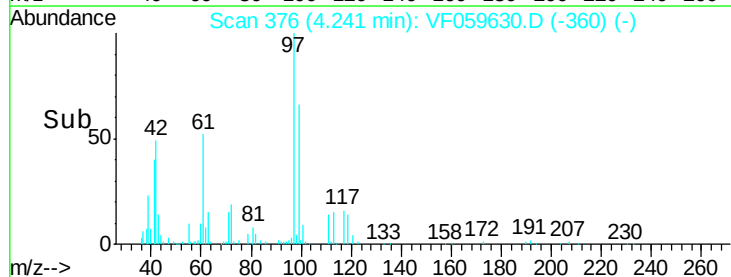
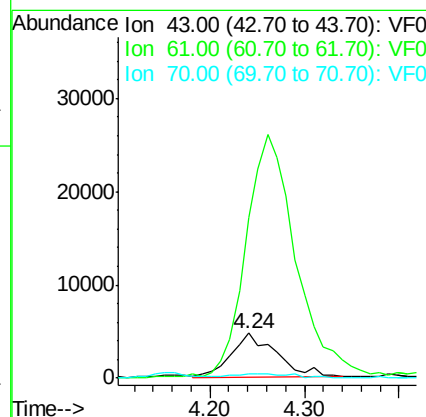
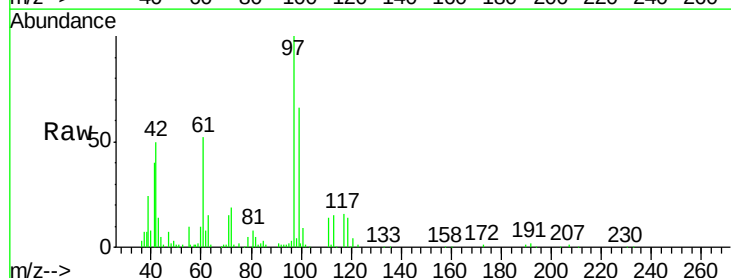
Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

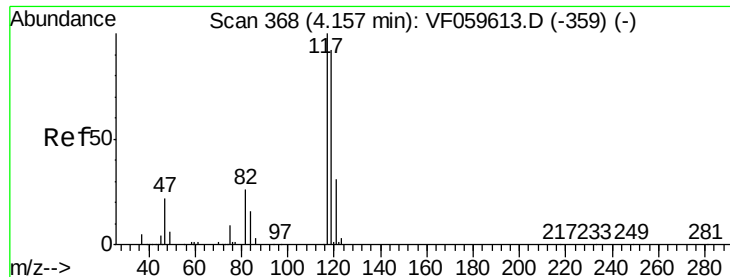
Tgt Ion: 75 Resp: 126407
 Ion Ratio Lower Upper
 75 100
 110 29.4 14.2 42.6
 77 31.3 20.3 30.5#



#37
 Ethyl Acetate
 Concen: 13.417 ug/l
 RT: 4.24 min Scan# 376
 Delta R.T. -0.04 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Tgt Ion: 43 Resp: 15509
 Ion Ratio Lower Upper
 43 100
 61 360.5 101.9 152.9#
 70 9.6 7.9 11.9





#38

Carbon Tetrachloride

Concen: 32.256 ug/l

RT: 4.16 min Scan# 368

Delta R.T. 0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

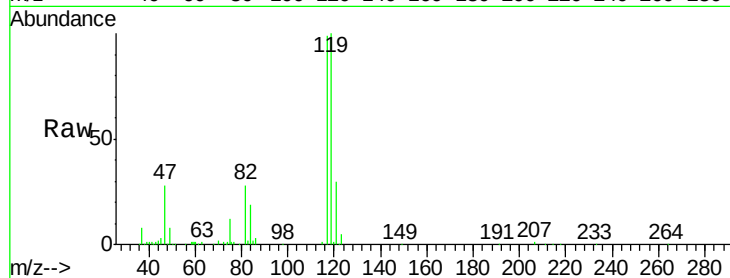
Tgt Ion: 117 Resp: 143113

Ion Ratio Lower Upper

117 100

119 101.3 74.2 111.4

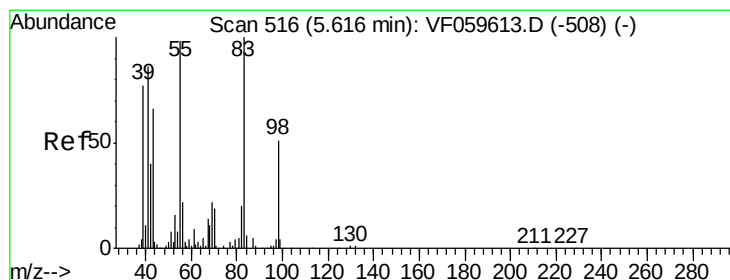
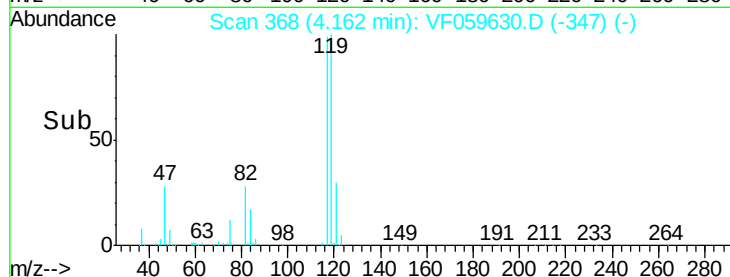
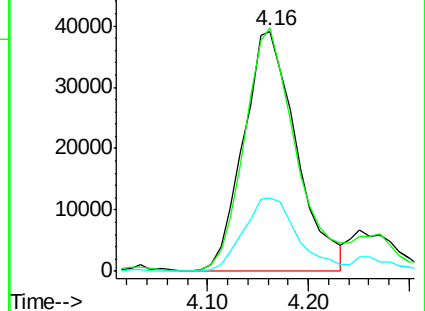
121 30.5 24.7 37.1



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#39

Methylcyclohexane

Concen: 22.413 ug/l

RT: 5.61 min Scan# 515

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

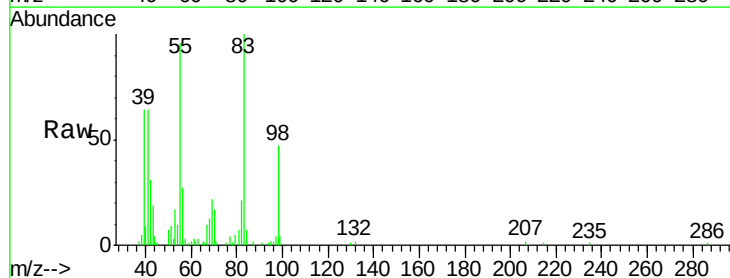
Tgt Ion: 83 Resp: 52282

Ion Ratio Lower Upper

83 100

55 95.7 78.5 117.7

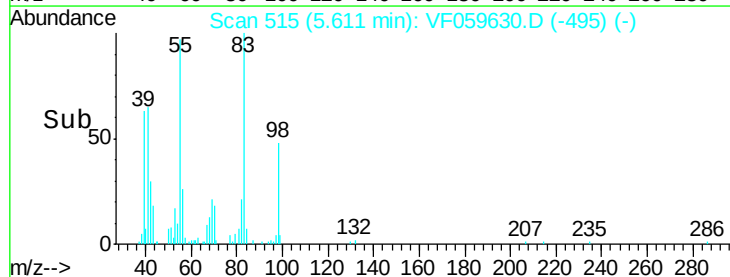
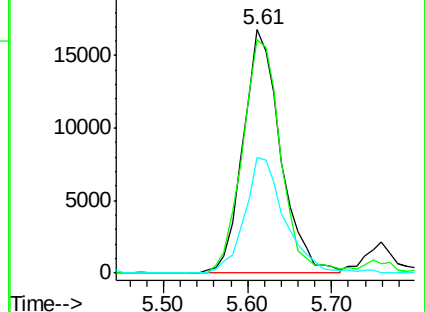
98 47.3 41.1 61.7

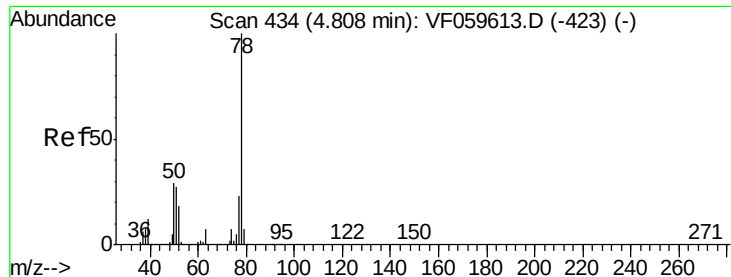


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: 47.115 ug/l

RT: 4.80 min Scan# 433

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

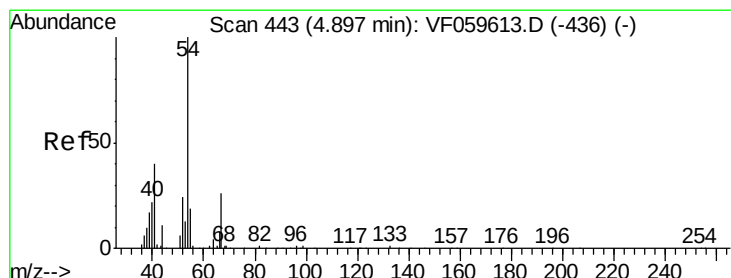
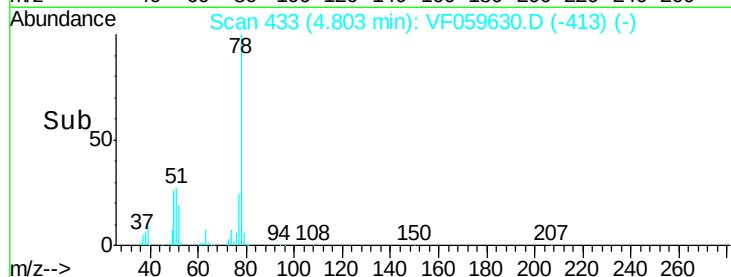
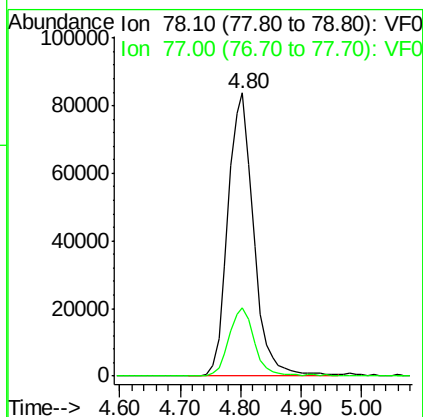
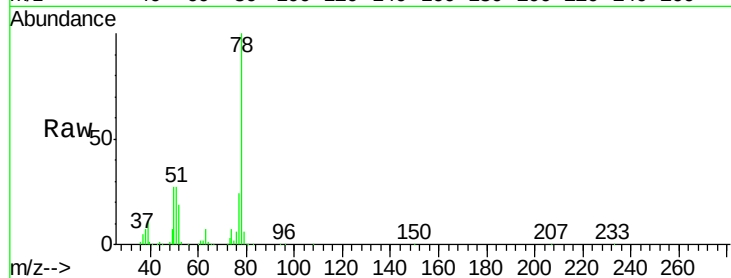
GL-TOPSOIL-09MS

Tgt Ion: 78 Resp: 247564

Ion Ratio Lower Upper

78 100

77 24.1 18.4 27.6



#41

Methacrylonitrile

Concen: 32.887 ug/l

RT: 4.91 min Scan# 444

Delta R.T. 0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion: 41 Resp: 19489

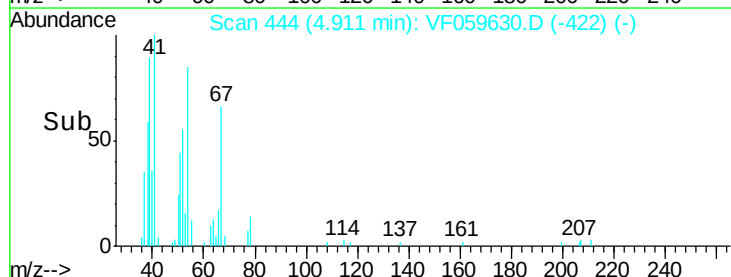
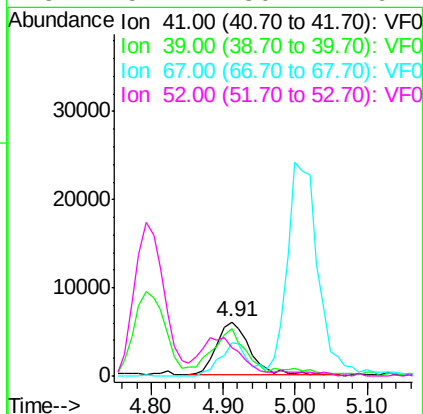
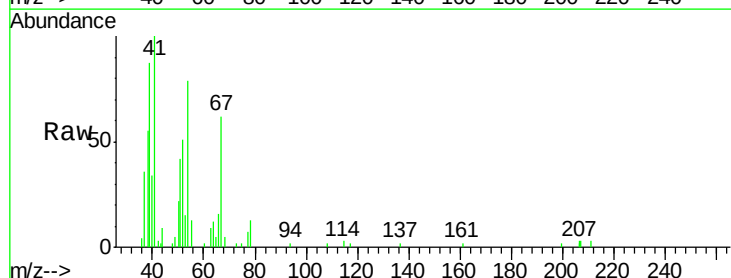
Ion Ratio Lower Upper

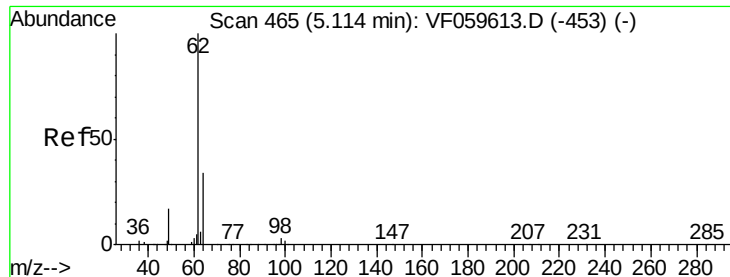
41 100

39 86.9 58.2 87.4

67 61.9 51.0 76.6

52 51.4 80.1 120.1#





#42

1,2-Dichloroethane

Concen: 45.357 ug/l

RT: 5.11 min Scan# 464

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

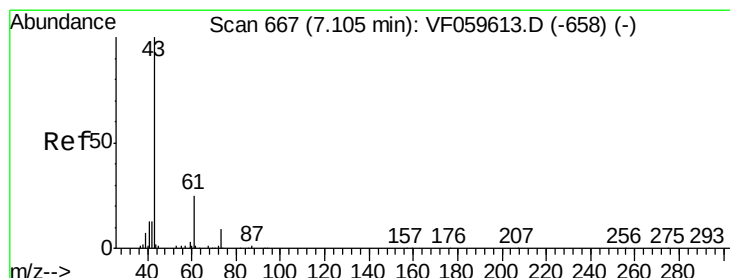
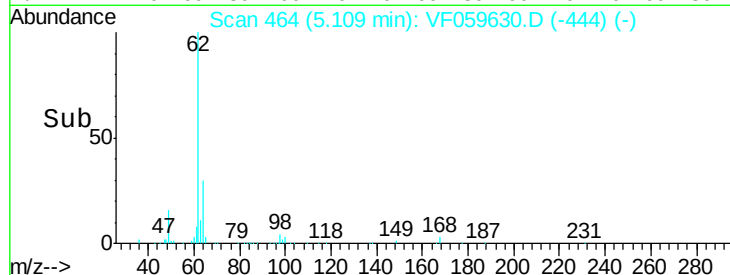
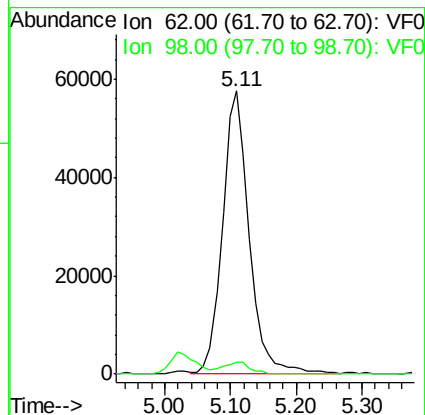
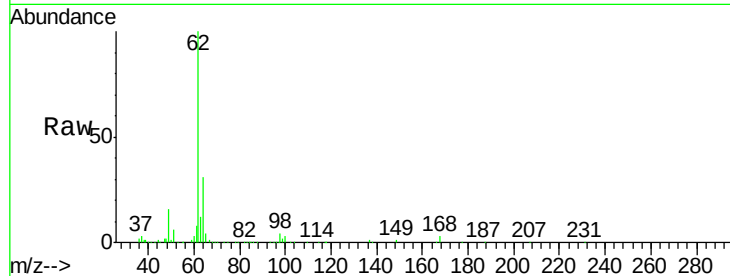
GL-TOPSOIL-09MS

Tgt Ion: 62 Resp: 160910

Ion Ratio Lower Upper

62 100

98 4.2 0.0 8.4



#43

Isopropyl Acetate

Concen: 1.094 ug/l

RT: 7.11 min Scan# 667

Delta R.T. 0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

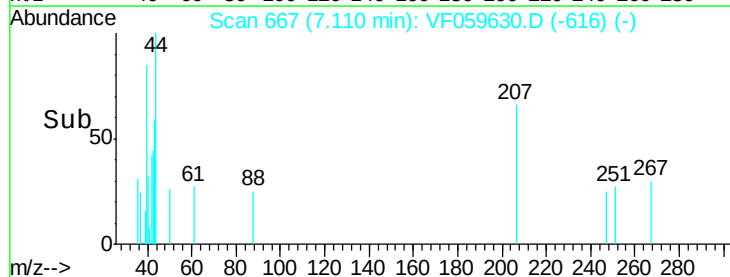
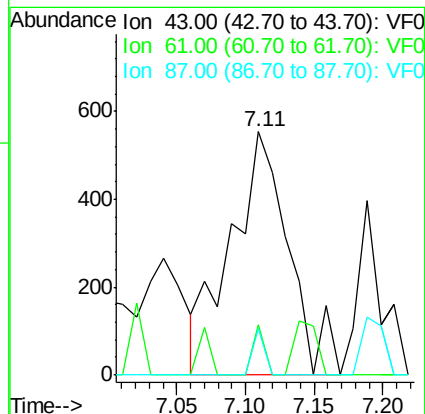
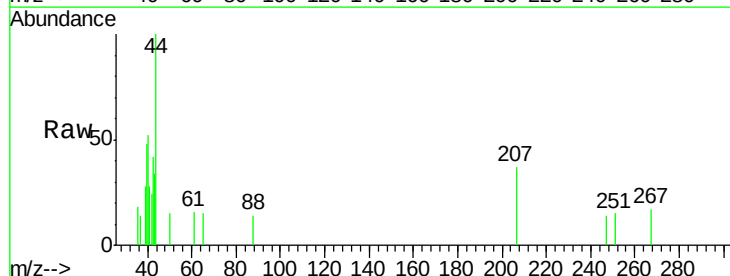
Tgt Ion: 43 Resp: 1616

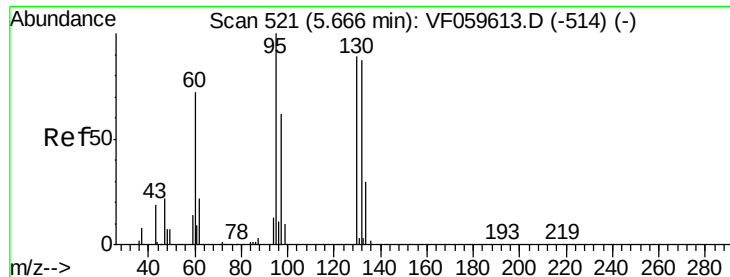
Ion Ratio Lower Upper

43 100

61 20.6 20.1 30.1

87 19.0 0.5 0.7#





#44

Trichloroethene

Concen: 43.459 ug/l

RT: 5.66 min Scan# 520

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

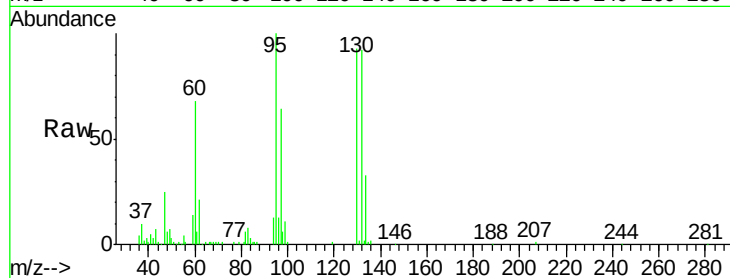
GL-TOPSOIL-09MS

Tgt Ion:130 Resp: 88024

Ion Ratio Lower Upper

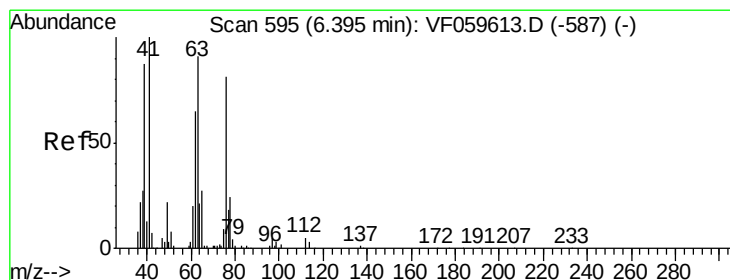
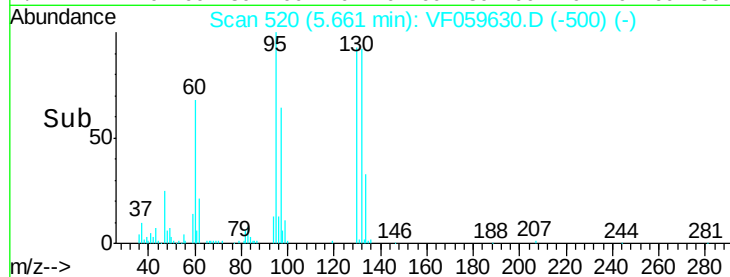
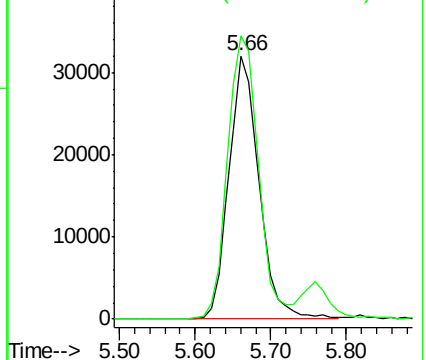
130 100

95 107.5 0.0 226.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0



#45

1,2-Dichloropropane

Concen: 46.159 ug/l

RT: 6.40 min Scan# 595

Delta R.T. 0.00 min

Lab File: VF059630.D

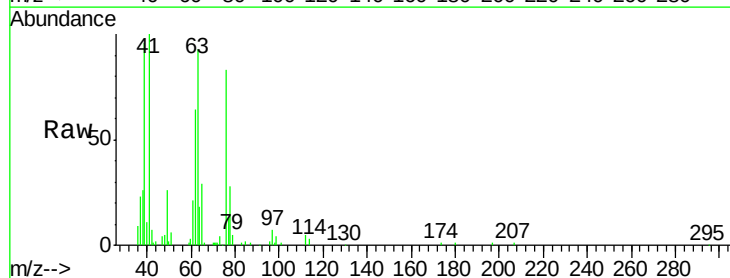
Acq: 23 Jul 2018 22:45

Tgt Ion: 63 Resp: 65664

Ion Ratio Lower Upper

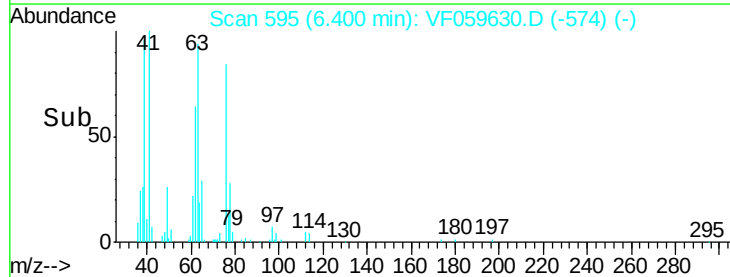
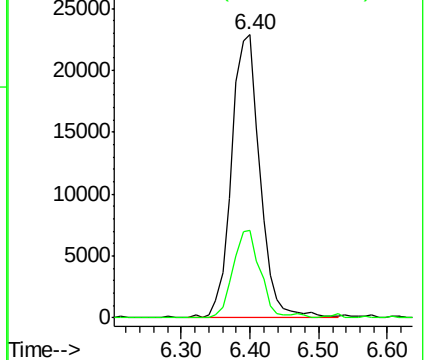
63 100

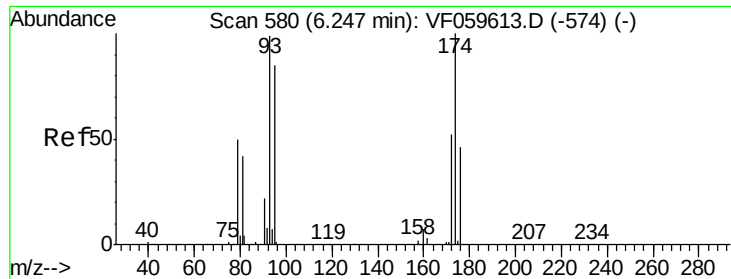
65 31.1 23.4 35.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0





#46

Dibromomethane

Concen: 48.172 ug/l

RT: 6.24 min Scan# 579

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

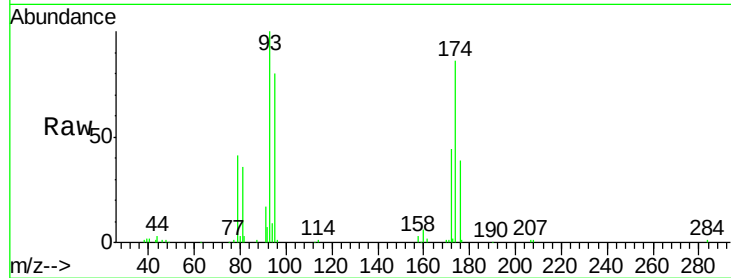
Tgt Ion: 93 Resp: 56764

Ion Ratio Lower Upper

93 100

95 79.9 68.6 102.8

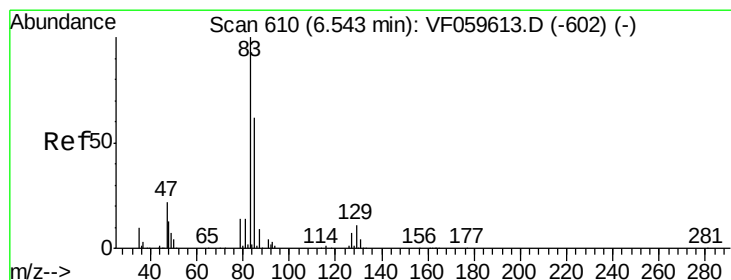
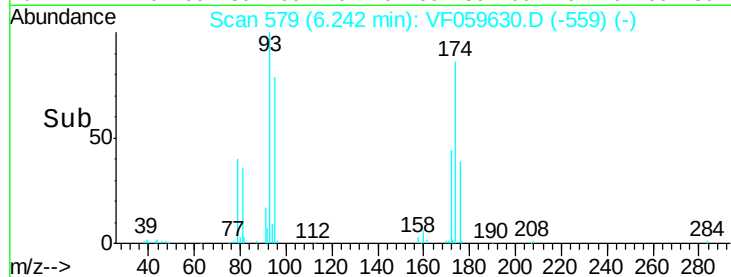
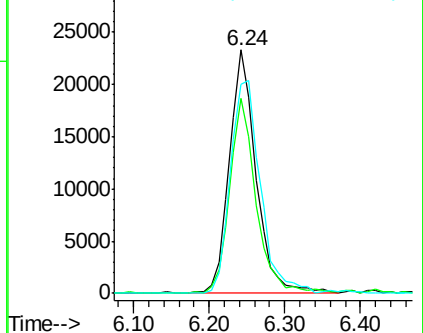
174 86.0 80.8 121.2



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V



#47

Bromodichloromethane

Concen: 35.788 ug/l

RT: 6.54 min Scan# 609

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

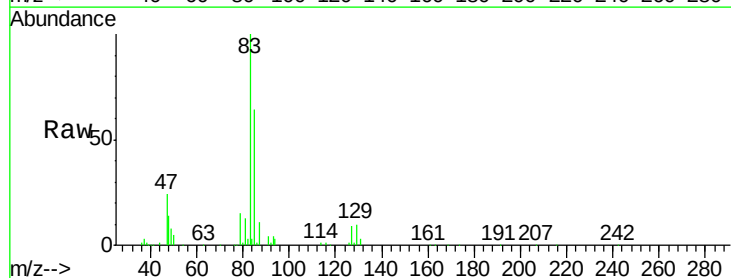
Tgt Ion: 83 Resp: 127980

Ion Ratio Lower Upper

83 100

85 64.1 49.4 74.0

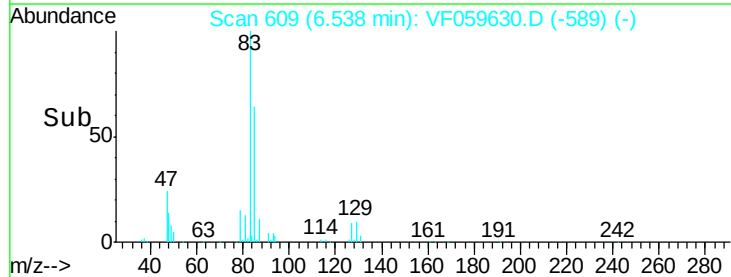
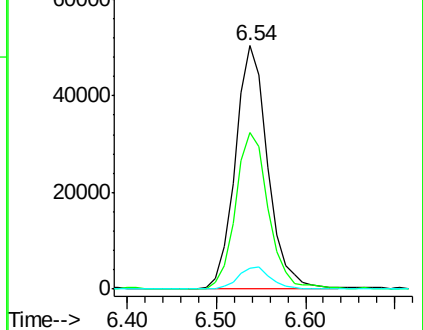
127 8.7 5.9 8.9

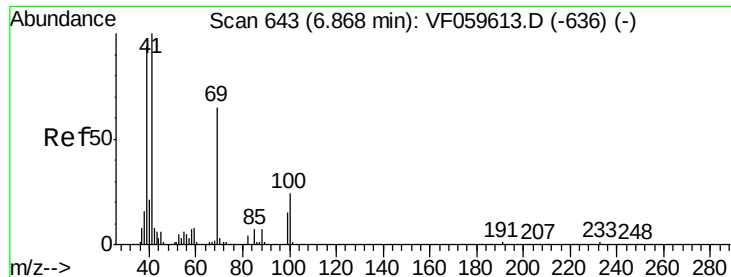


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V

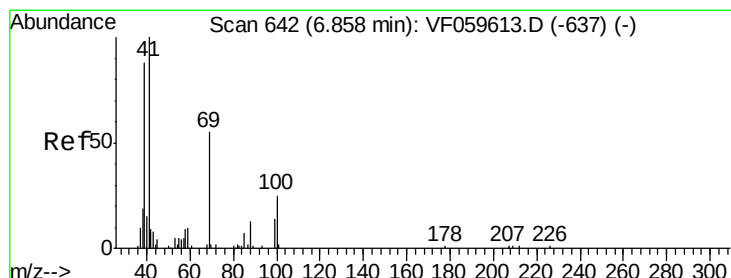
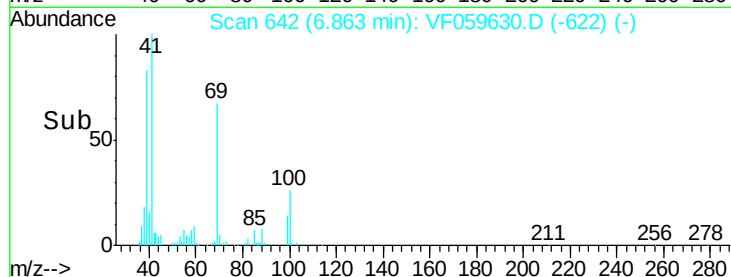
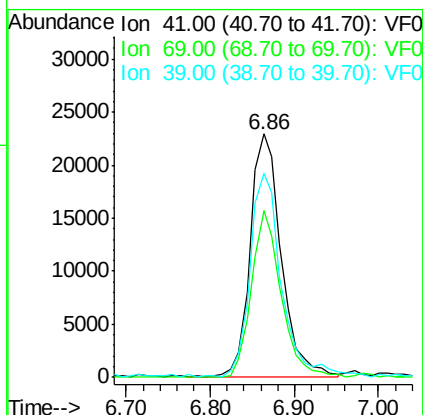
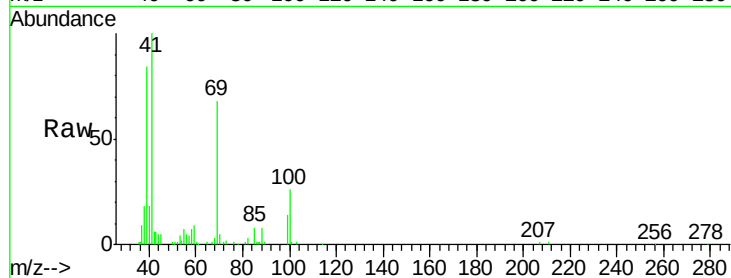




#48
Methyl methacrylate
Concen: 54.124 ug/l
RT: 6.86 min Scan# 642
Delta R.T. -0.01 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

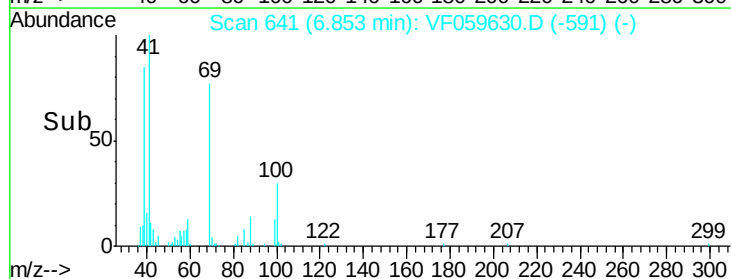
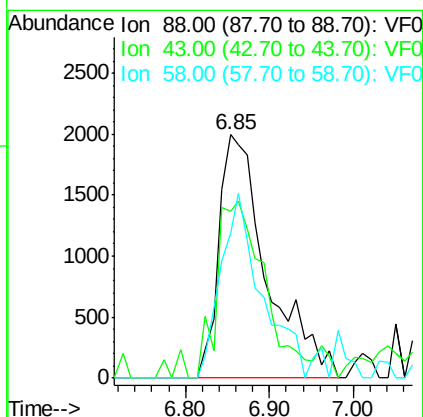
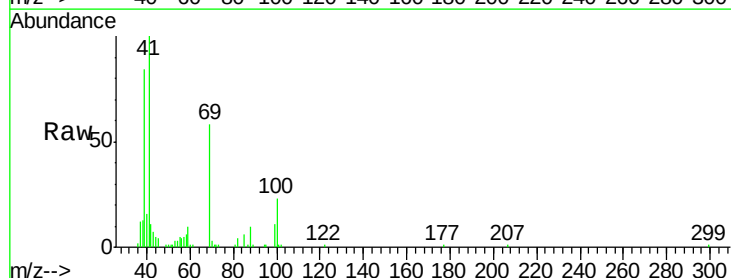
Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

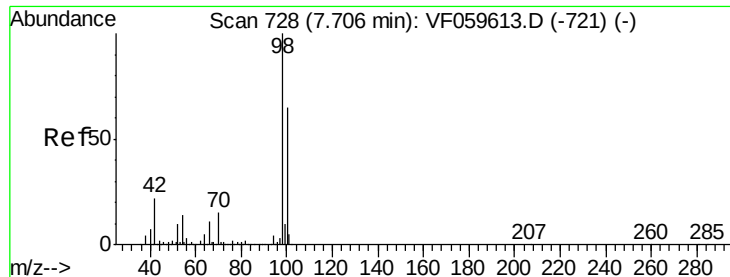
Tgt Ion: 41 Resp: 59797
Ion Ratio Lower Upper
41 100
69 68.4 51.6 77.4
39 83.9 76.3 114.5



#49
1,4-Dioxane
Concen: 1157.042 ug/l
RT: 6.85 min Scan# 641
Delta R.T. -0.00 min
Lab File: VF059630.D
Acq: 23 Jul 2018 22:45

Tgt Ion: 88 Resp: 7928
Ion Ratio Lower Upper
88 100
43 68.3 54.2 81.4
58 59.8 54.3 81.5





#50

Toluene-d8

Concen: 47.239 ug/l

RT: 7.70 min Scan# 727

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

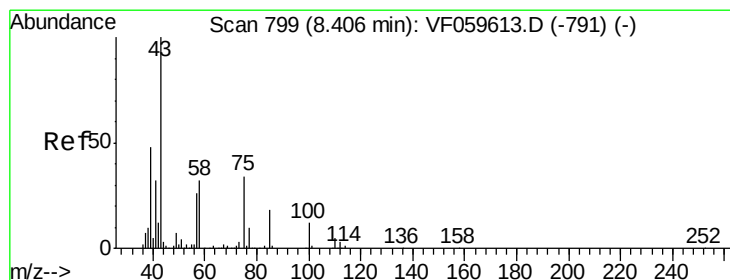
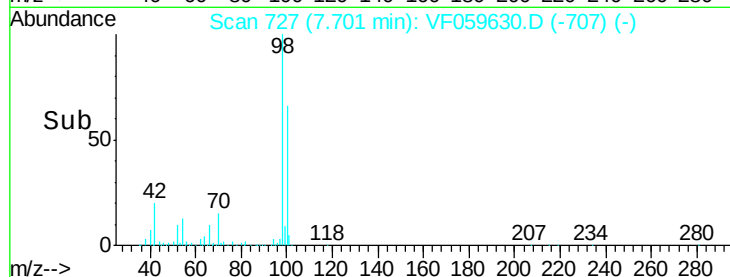
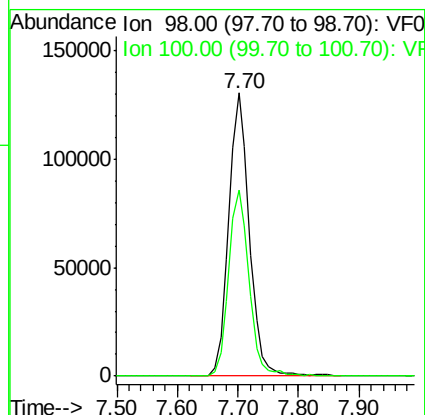
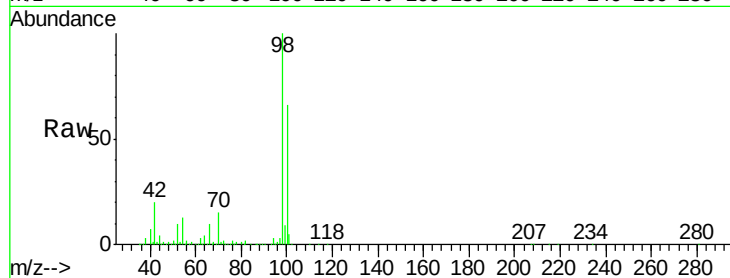
GL-TOPSOIL-09MS

Tgt Ion: 98 Resp: 309834

Ion Ratio Lower Upper

98 100

100 65.6 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 226.955 ug/l

RT: 8.39 min Scan# 797

Delta R.T. -0.01 min

Lab File: VF059630.D

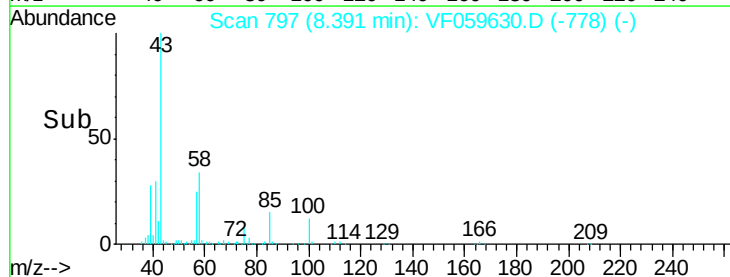
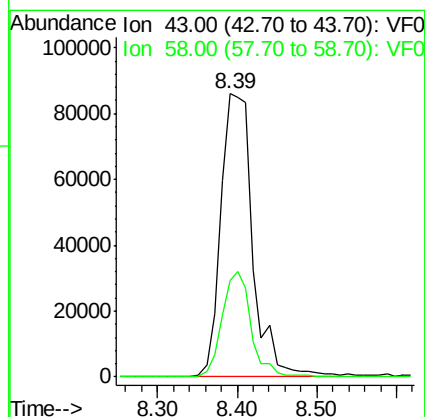
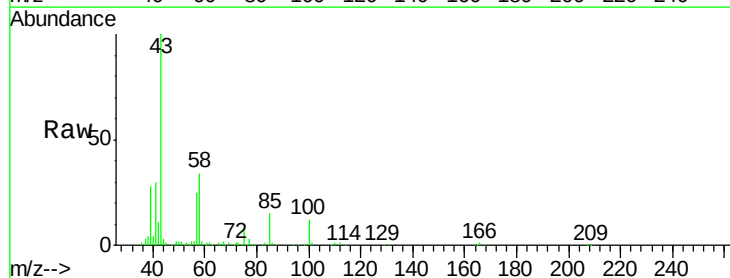
Acq: 23 Jul 2018 22:45

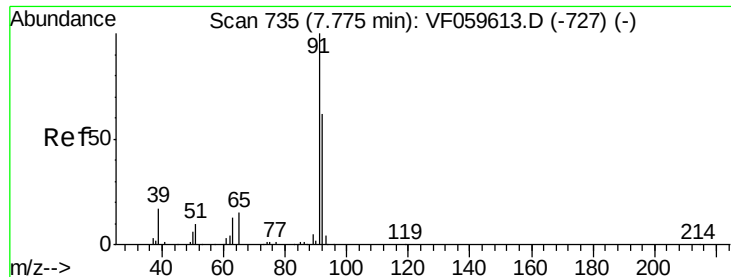
Tgt Ion: 43 Resp: 244242

Ion Ratio Lower Upper

43 100

58 34.0 25.8 38.6





#52

Toluene

Concen: 40.581 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

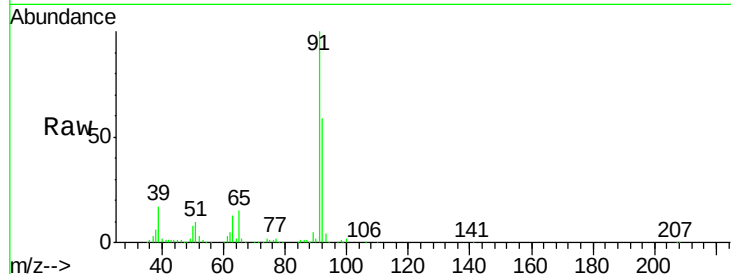
GL-TOPSOIL-09MS

Tgt Ion: 92 Resp: 162342

Ion Ratio Lower Upper

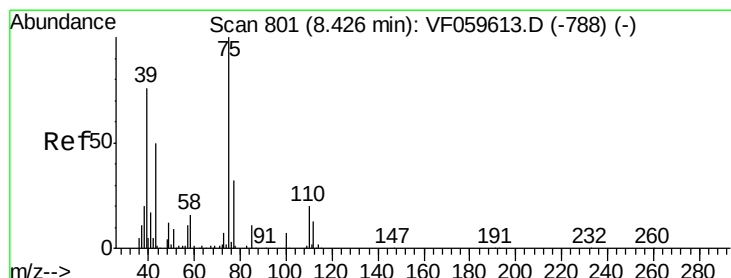
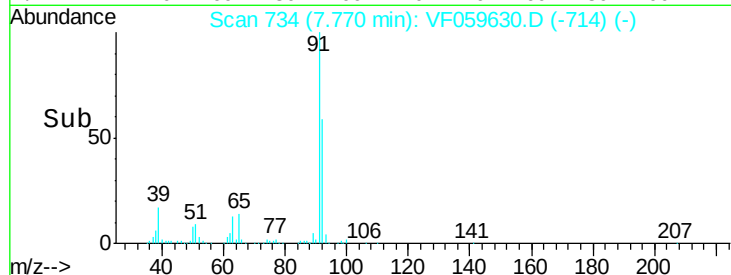
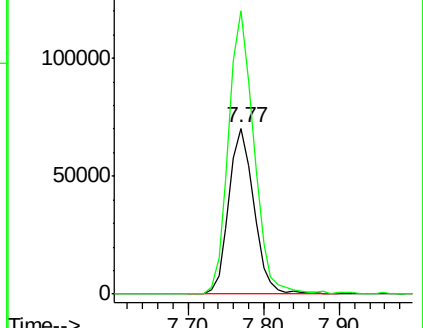
92 100

91 170.5 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#53

t-1,3-Dichloropropene

Concen: 31.843 ug/l

RT: 8.42 min Scan# 800

Delta R.T. -0.01 min

Lab File: VF059630.D

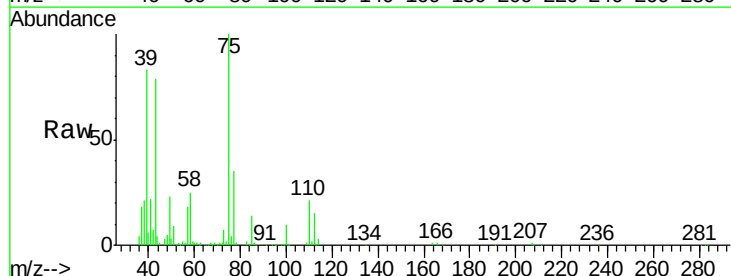
Acq: 23 Jul 2018 22:45

Tgt Ion: 75 Resp: 96270

Ion Ratio Lower Upper

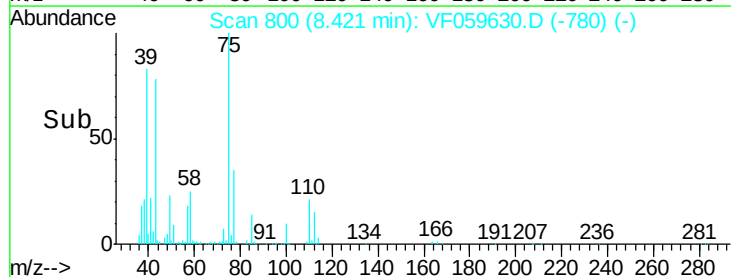
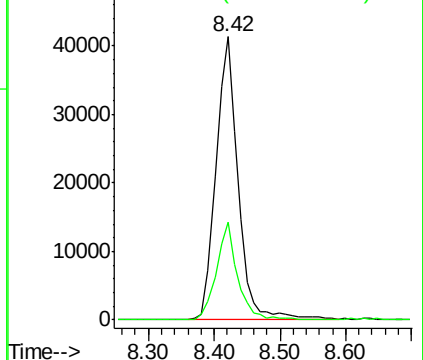
75 100

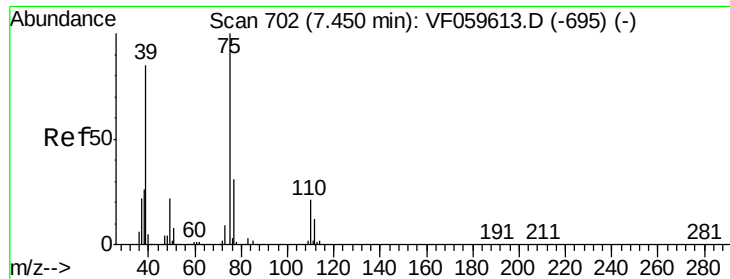
77 34.6 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#54

cis-1,3-Dichloropropene

Concen: 33.154 ug/l

RT: 7.44 min Scan# 701

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

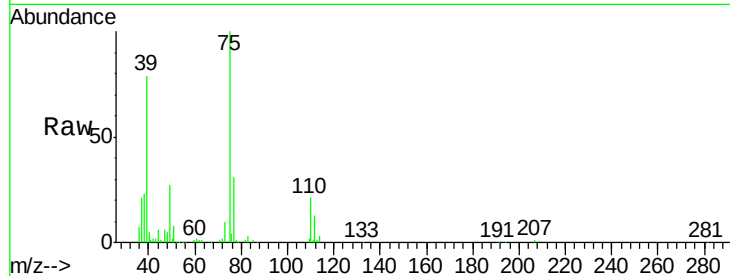
Tgt Ion: 75 Resp: 99356

Ion Ratio Lower Upper

75 100

77 30.7 24.6 37.0

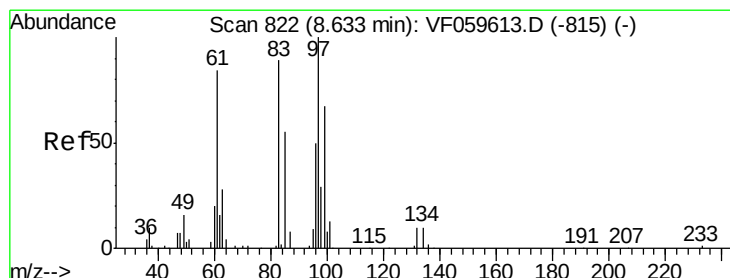
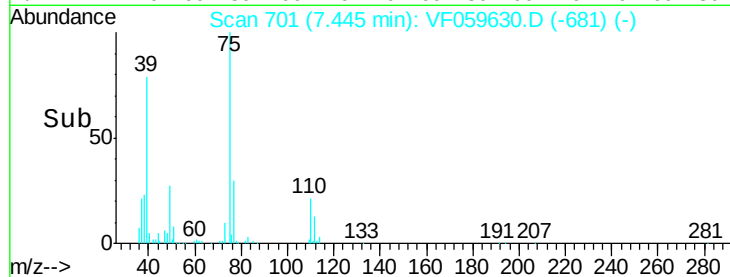
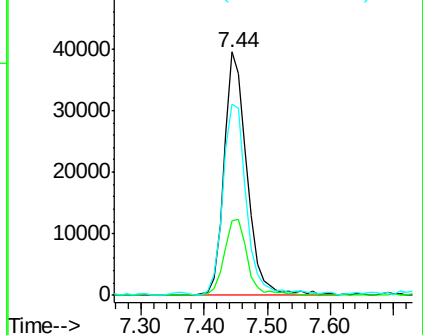
39 78.7 67.8 101.6



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#55

1,1,2-Trichloroethane

Concen: 40.445 ug/l

RT: 8.63 min Scan# 821

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion: 97 Resp: 55363

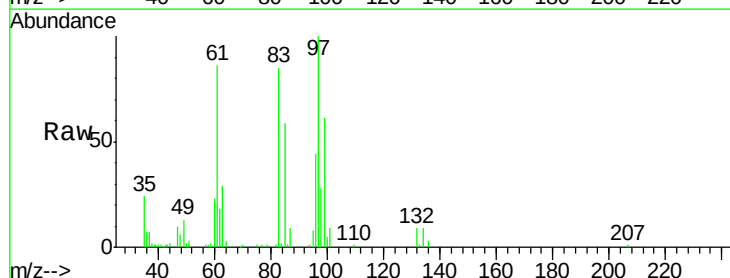
Ion Ratio Lower Upper

97 100

83 85.0 71.8 107.6

85 58.8 43.9 65.9

99 60.6 53.5 80.3

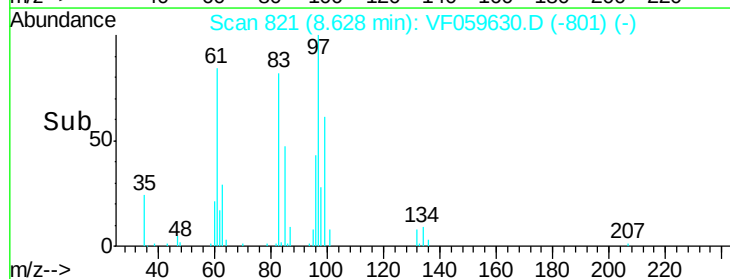
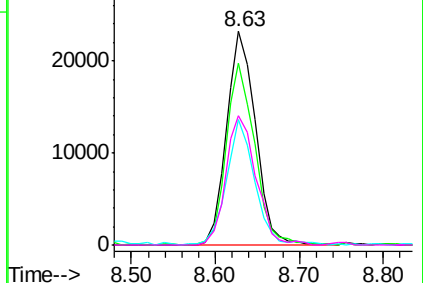


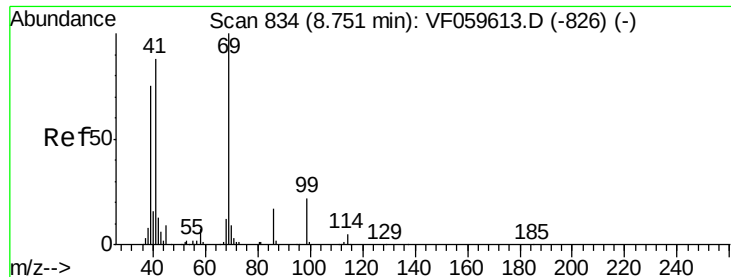
Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0





#56

Ethyl methacrylate

Concen: 1.312 ug/l

RT: 8.75 min Scan# 833

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

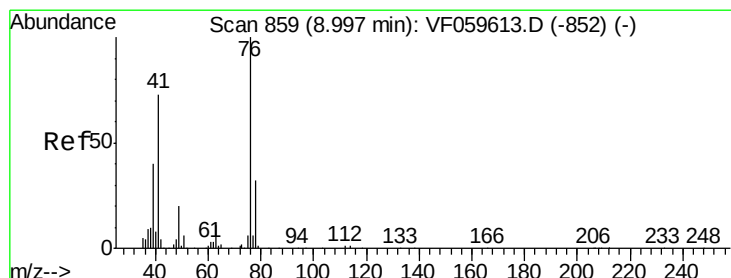
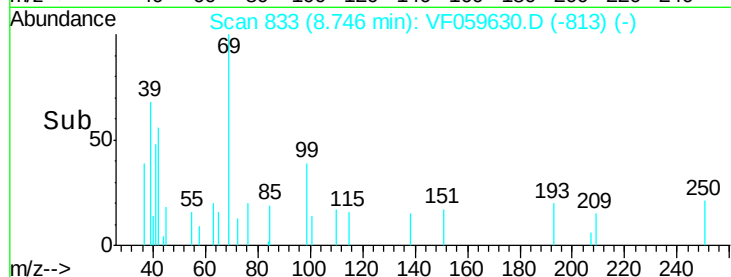
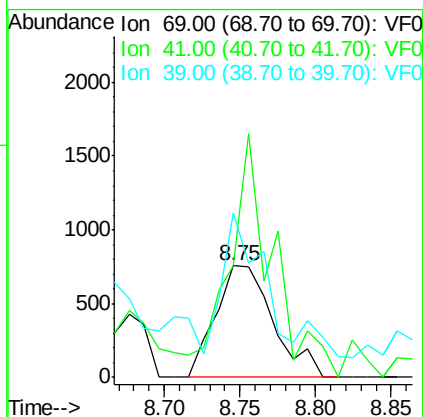
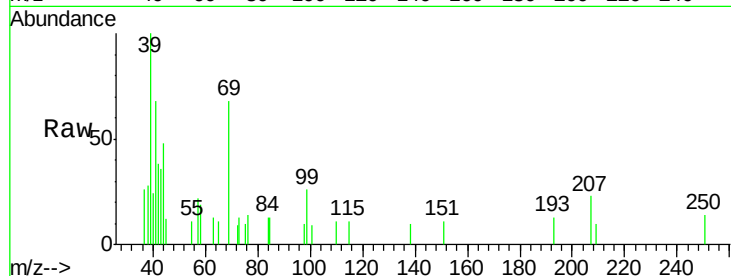
Tgt Ion: 69 Resp: 1999

Ion Ratio Lower Upper

69 100

41 100.1 70.8 106.2

39 147.2 60.7 91.1#



#57

1,3-Dichloropropane

Concen: 42.123 ug/l

RT: 8.99 min Scan# 858

Delta R.T. -0.01 min

Lab File: VF059630.D

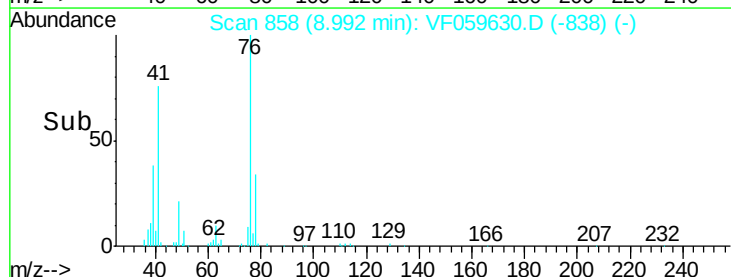
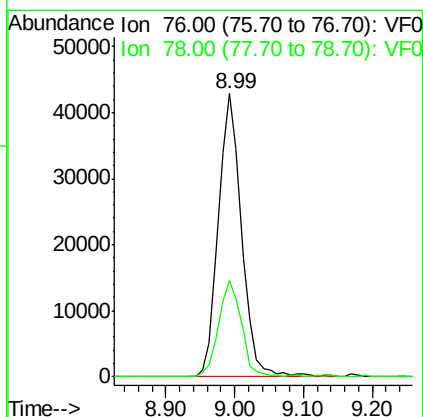
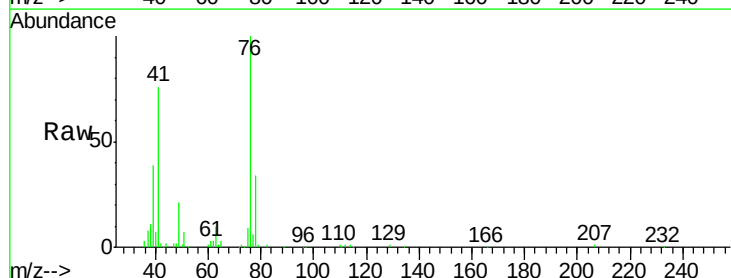
Acq: 23 Jul 2018 22:45

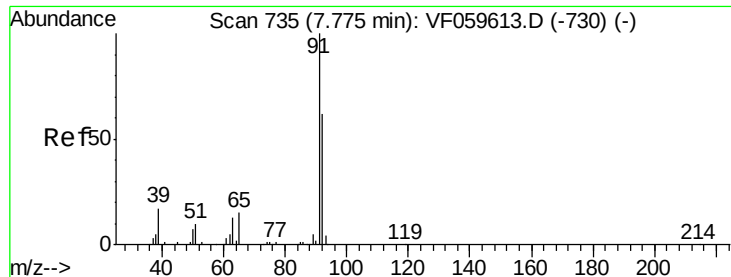
Tgt Ion: 76 Resp: 100331

Ion Ratio Lower Upper

76 100

78 34.1 25.3 37.9





#58

2-Chloroethyl Vinyl ether

Concen: 203.015 ug/l

RT: 7.77 min Scan# 734

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

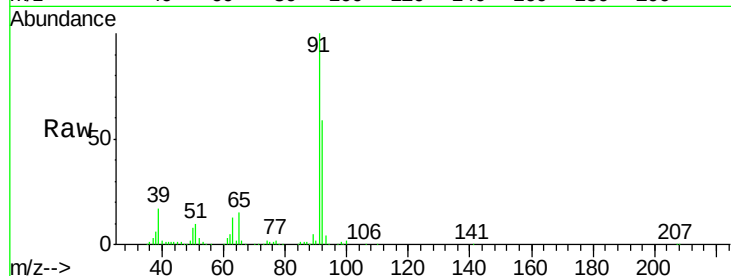
GL-TOPSOIL-09MS

Tgt Ion: 63 Resp: 35795

Ion Ratio Lower Upper

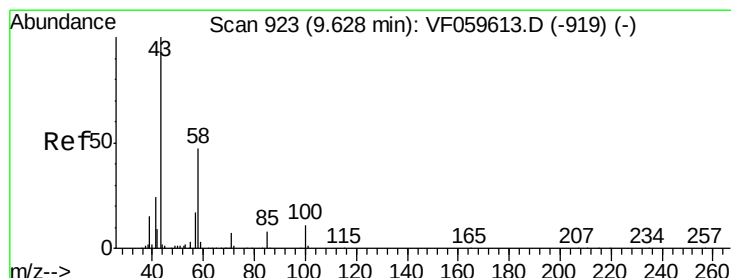
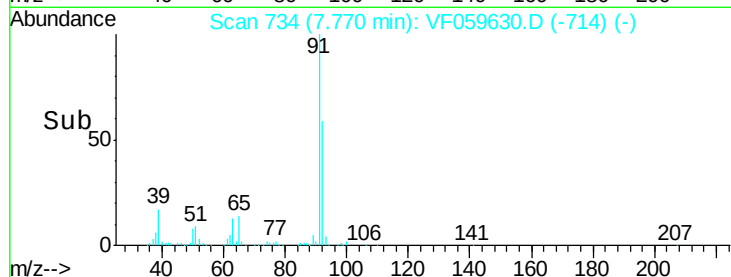
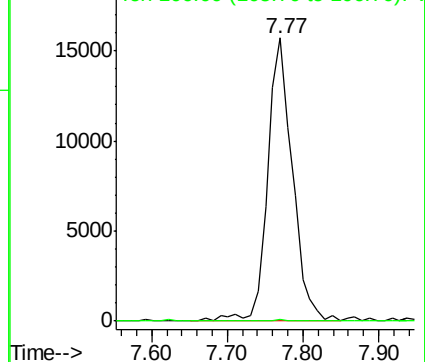
63 100

106 0.8 0.0 0.0#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): VF0



#59

2-Hexanone

Concen: 151.121 ug/l

RT: 9.62 min Scan# 922

Delta R.T. -0.01 min

Lab File: VF059630.D

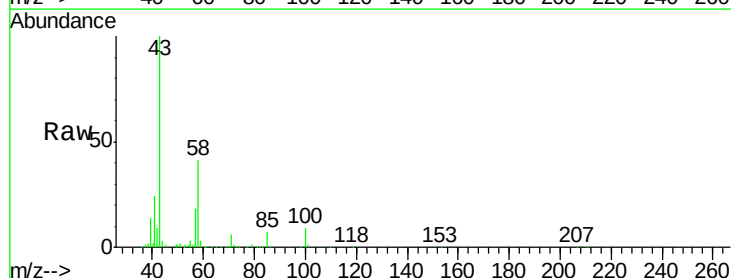
Acq: 23 Jul 2018 22:45

Tgt Ion: 43 Resp: 131982

Ion Ratio Lower Upper

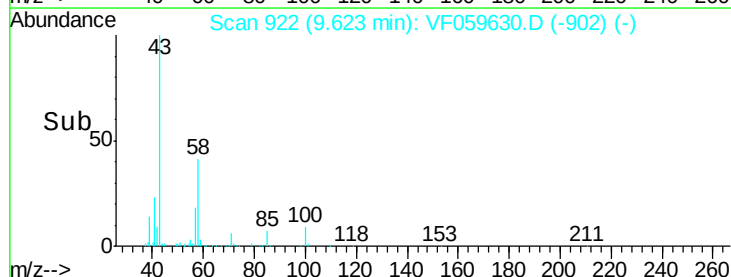
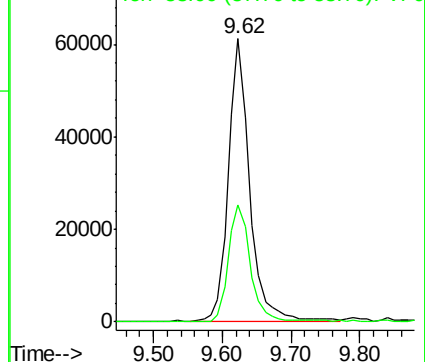
43 100

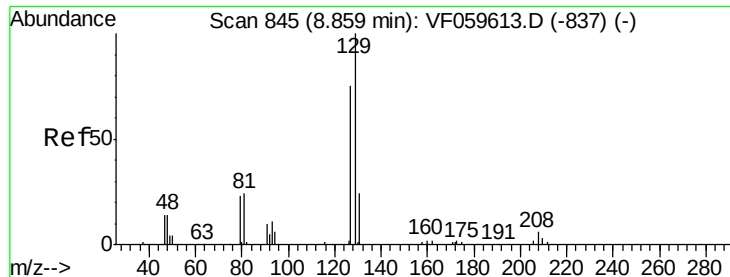
58 41.3 21.1 63.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#60

Dibromochloromethane

Concen: 29.273 ug/l

RT: 8.85 min Scan# 844

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

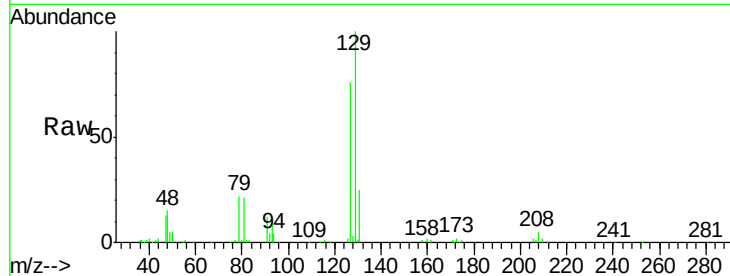
GL-TOPSOIL-09MS

Tgt Ion:129 Resp: 71356

Ion Ratio Lower Upper

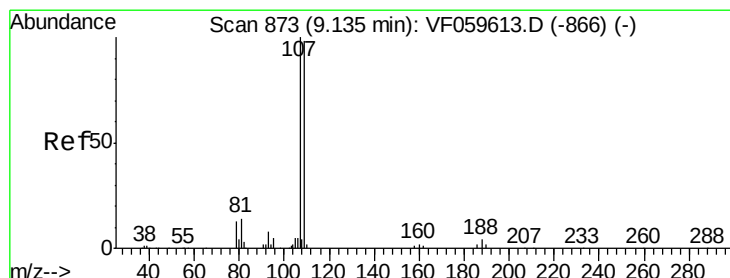
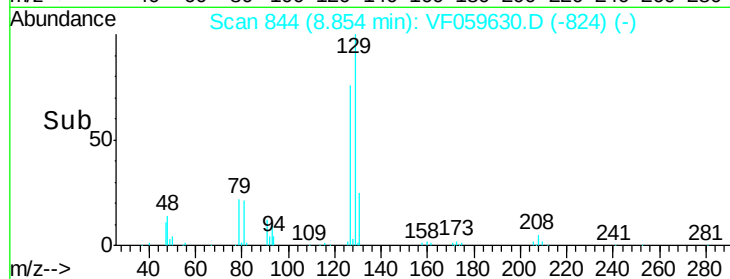
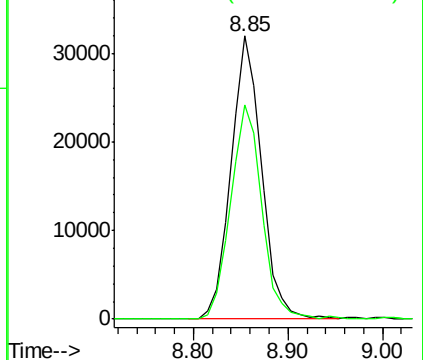
129 100

127 75.9 37.5 112.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#61

1,2-Dibromoethane

Concen: 38.774 ug/l

RT: 9.13 min Scan# 872

Delta R.T. -0.01 min

Lab File: VF059630.D

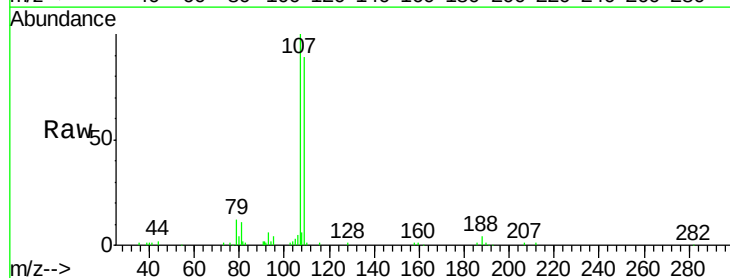
Acq: 23 Jul 2018 22:45

Tgt Ion:107 Resp: 60833

Ion Ratio Lower Upper

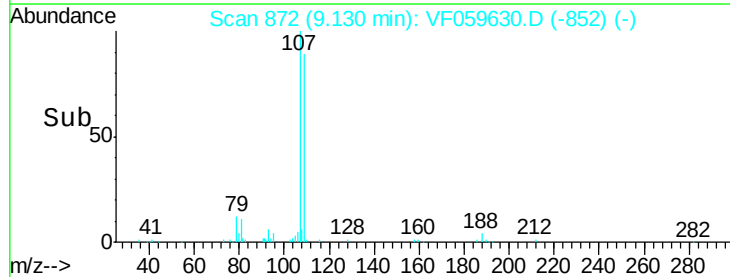
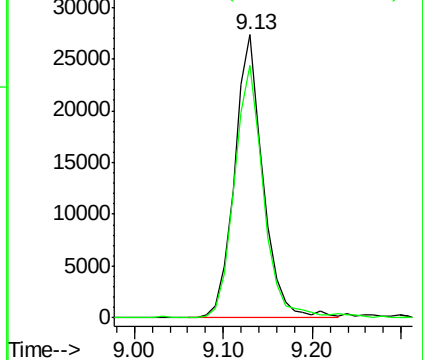
107 100

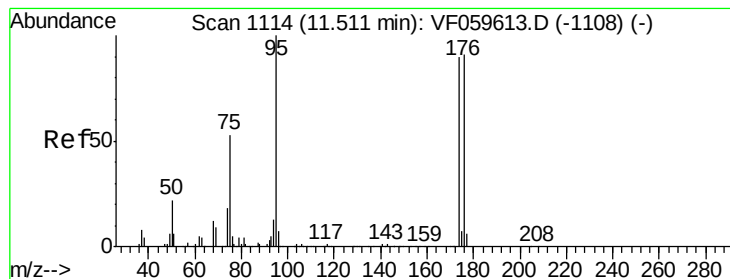
109 89.3 78.2 117.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#62

4-Bromofluorobenzene

Concen: 27.761 ug/l

RT: 11.51 min Scan# 1113

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

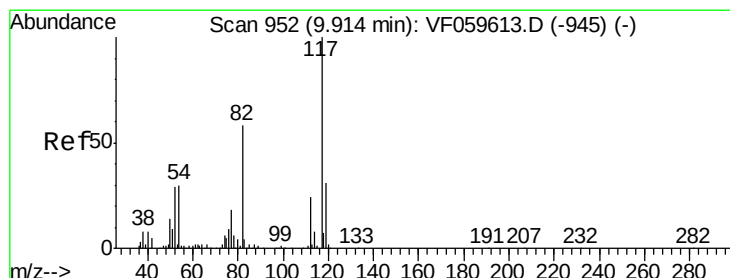
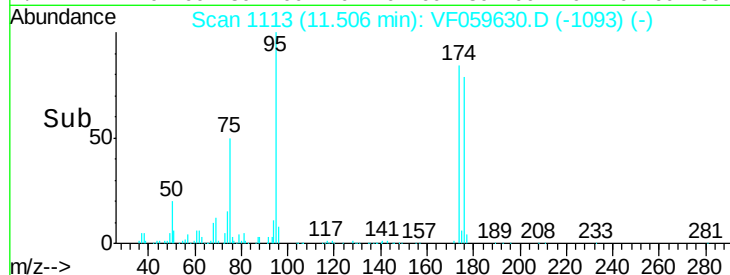
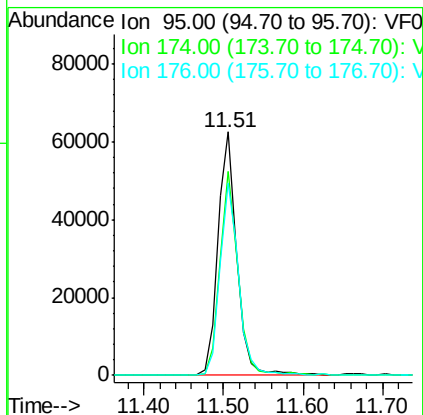
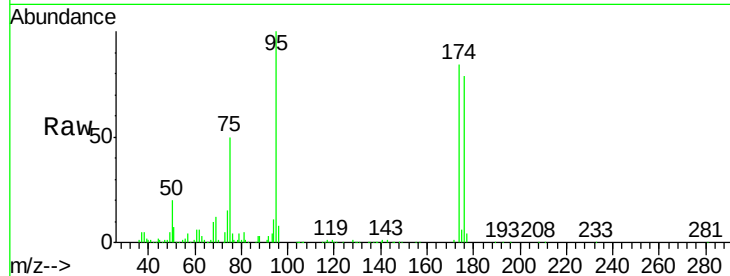
Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

Tgt Ion:	95	Resp:	105107
Ion	Ratio	Lower	Upper
95	100		
174	84.0	0.0	180.6
176	79.3	0.0	182.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

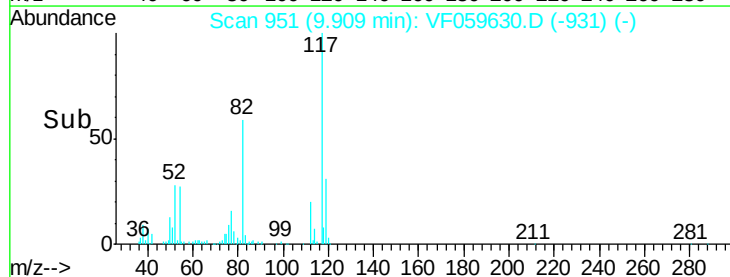
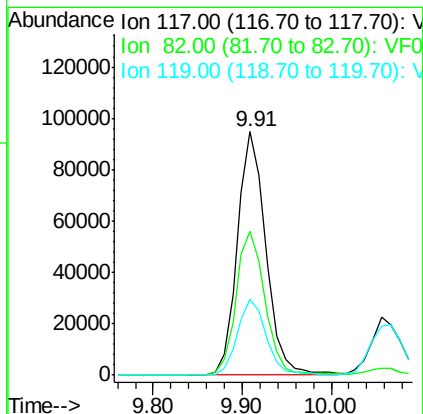
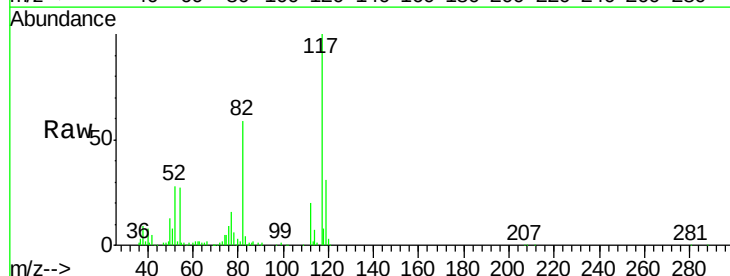
RT: 9.91 min Scan# 951

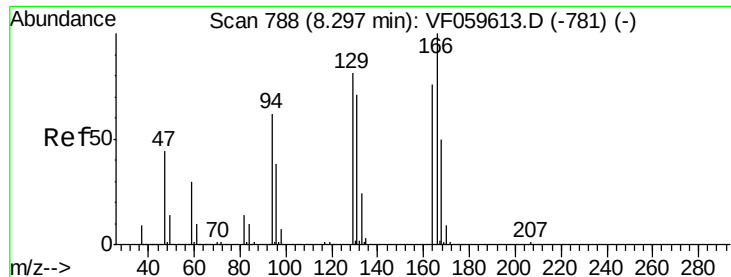
Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	117	Resp:	210882
Ion	Ratio	Lower	Upper
117	100		
82	59.3	46.5	69.7
119	31.4	24.4	36.6





#64

Tetrachloroethene

Concen: 48.013 ug/l

RT: 8.29 min Scan# 787

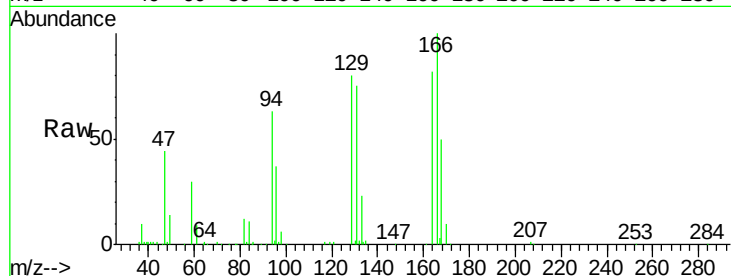
Delta R.T. -0.01 min

Lab File: VF059630.D

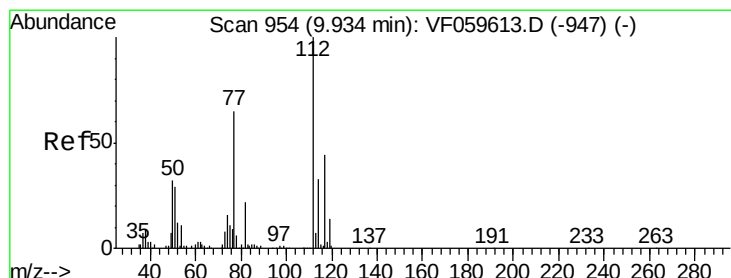
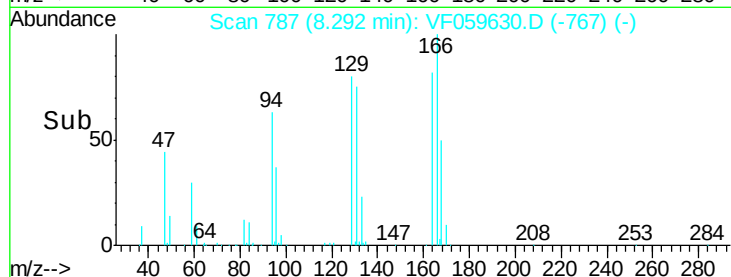
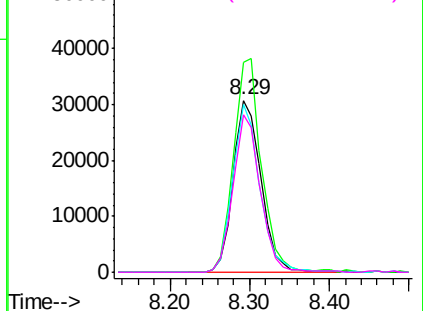
Acq: 23 Jul 2018 22:45

Instrument :
MSVOA_F
ClientSampleId :
GL-TOPSOIL-09MS

Tgt Ion:164	Resp:	75191
Ion Ratio	Lower	Upper
164	100	
166	122.1	104.8 157.2
129	97.5	85.3 127.9
131	91.7	74.6 111.8



Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V



#65

Chlorobenzene

Concen: 44.842 ug/l

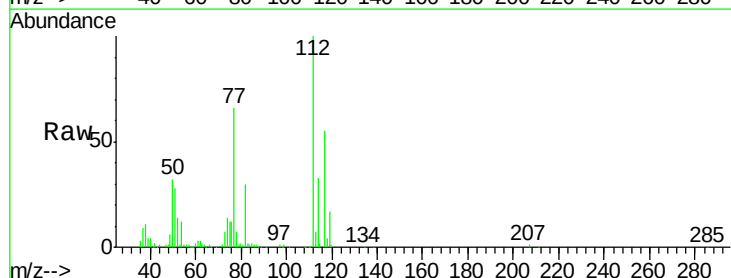
RT: 9.93 min Scan# 953

Delta R.T. -0.01 min

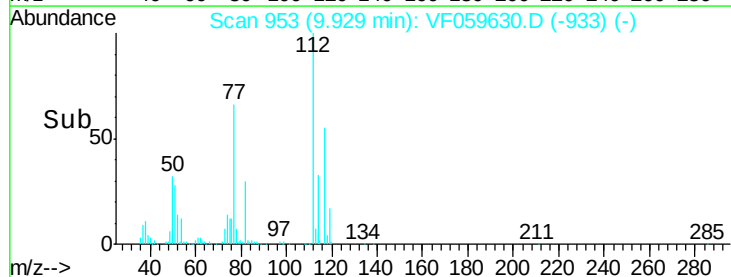
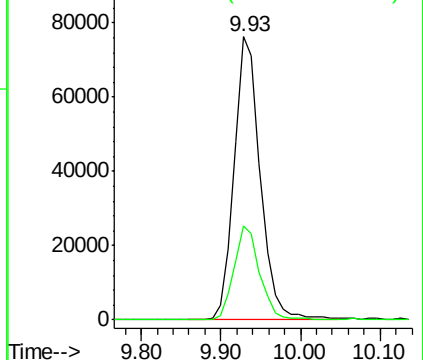
Lab File: VF059630.D

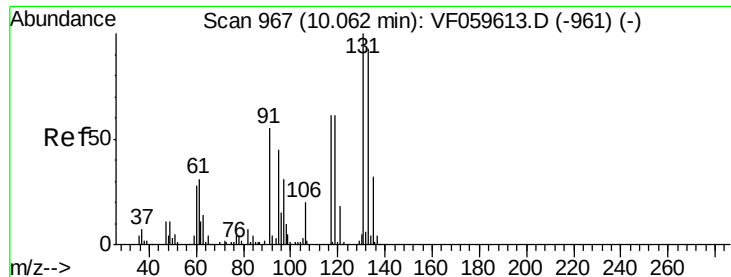
Acq: 23 Jul 2018 22:45

Tgt Ion:112	Resp:	174370
Ion Ratio	Lower	Upper
112	100	
114	33.2	26.8 40.2



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V





#66

1,1,1,2-Tetrachloroethane

Concen: 45.830 ug/l

RT: 10.06 min Scan# 966

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

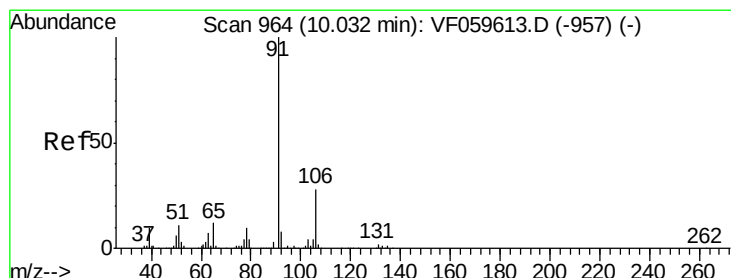
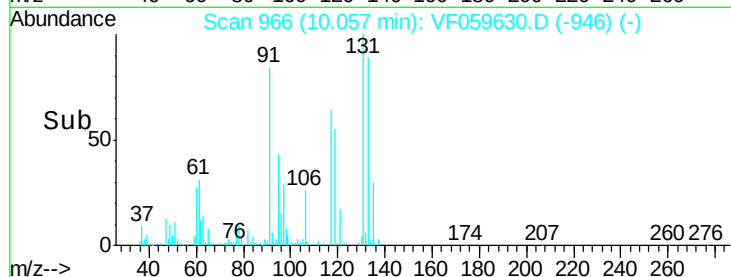
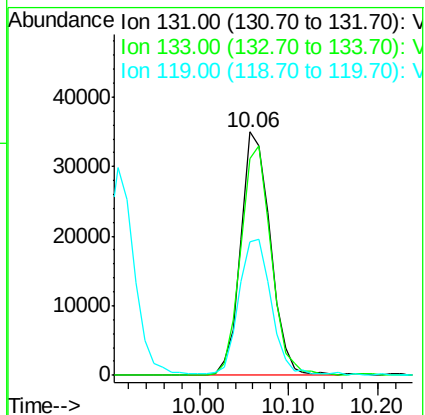
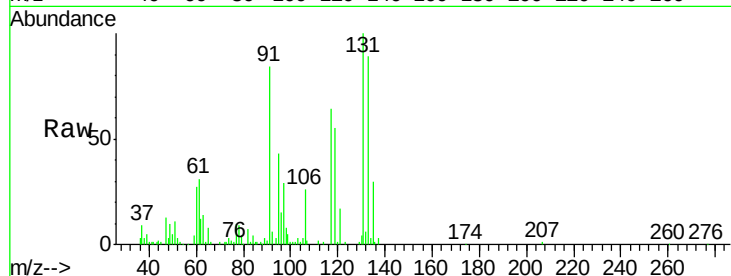
Tgt Ion: 131 Resp: 80748

Ion Ratio Lower Upper

131 100

133 89.2 46.4 139.2

119 54.8 30.6 91.8



#67

Ethyl Benzene

Concen: 45.753 ug/l

RT: 10.03 min Scan# 963

Delta R.T. -0.01 min

Lab File: VF059630.D

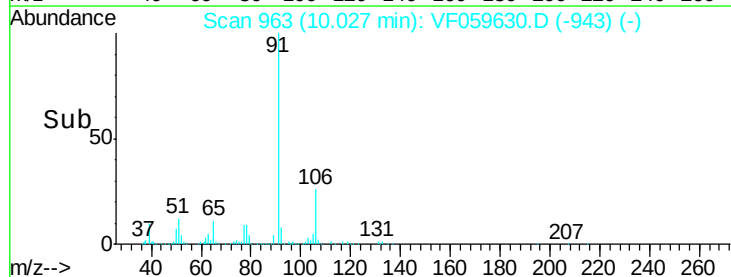
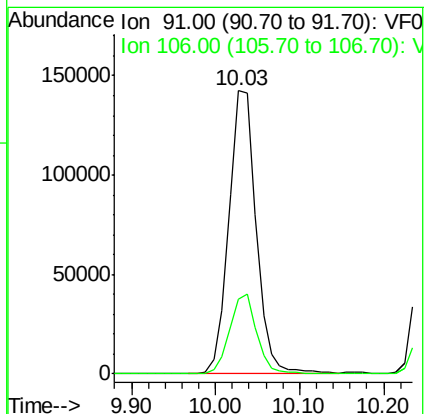
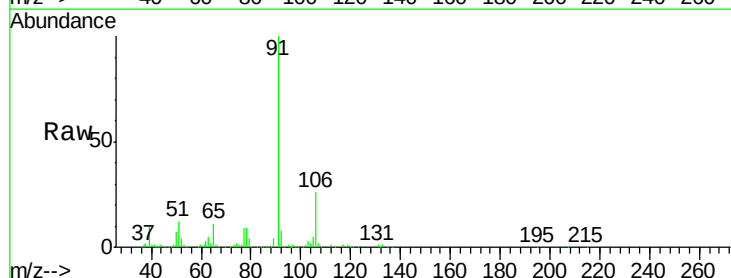
Acq: 23 Jul 2018 22:45

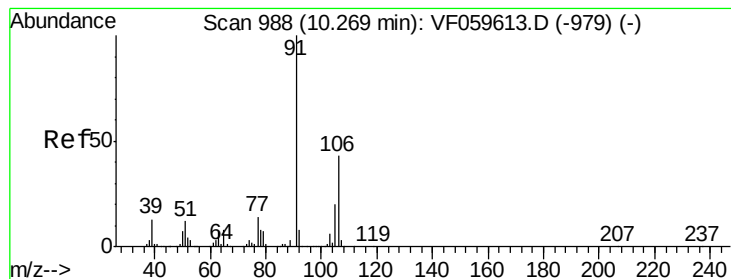
Tgt Ion: 91 Resp: 323496

Ion Ratio Lower Upper

91 100

106 26.3 22.5 33.7





#68

m/p-Xylenes

Concen: 86.144 ug/l

RT: 10.25 min Scan# 986

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

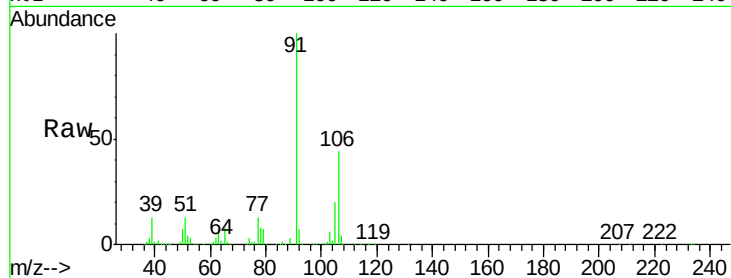
GL-TOPSOIL-09MS

Tgt Ion:106 Resp: 206996

Ion Ratio Lower Upper

106 100

91 226.8 187.0 280.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

250000

200000

150000

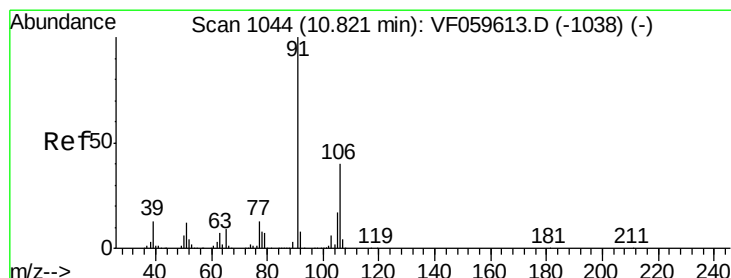
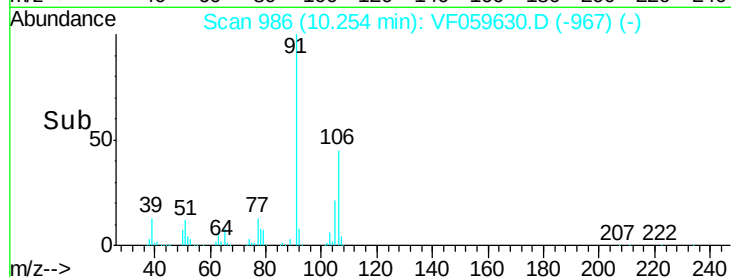
100000

50000

0

10.20 10.30 10.40

Time-->



#69

o-Xylene

Concen: 43.825 ug/l

RT: 10.83 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VF059630.D

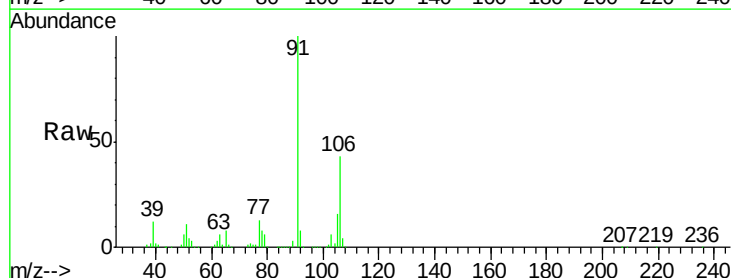
Acq: 23 Jul 2018 22:45

Tgt Ion:106 Resp: 114381

Ion Ratio Lower Upper

106 100

91 230.7 125.8 377.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

150000

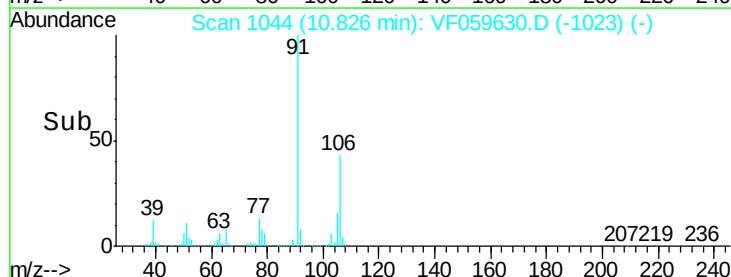
100000

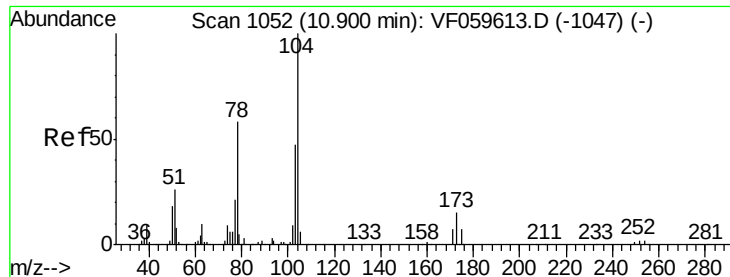
50000

0

10.70 10.80 10.90 11.00

Time-->





#70

Styrene

Concen: 36.164 ug/l

RT: 10.89 min Scan# 1051

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

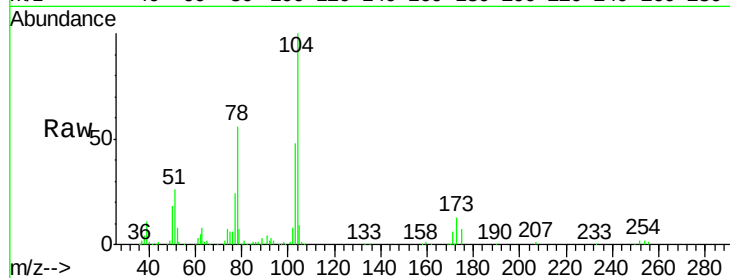
Tgt Ion:104 Resp: 141558

Ion Ratio Lower Upper

104 100

78 56.0 47.4 71.2

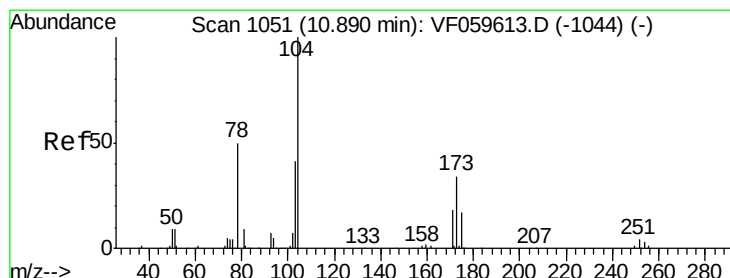
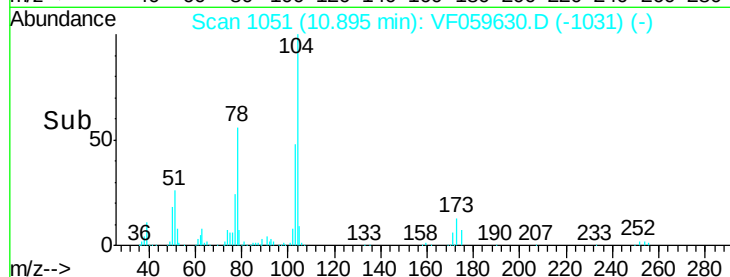
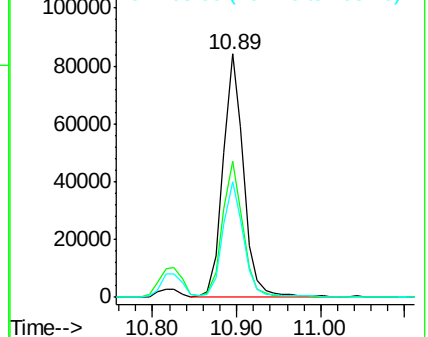
103 47.7 38.8 58.2



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VF0

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 31.906 ug/l

RT: 10.88 min Scan# 1050

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

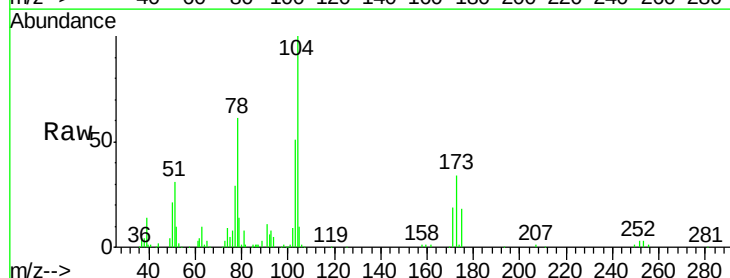
Tgt Ion:173 Resp: 34834

Ion Ratio Lower Upper

173 100

175 50.8 25.1 75.2

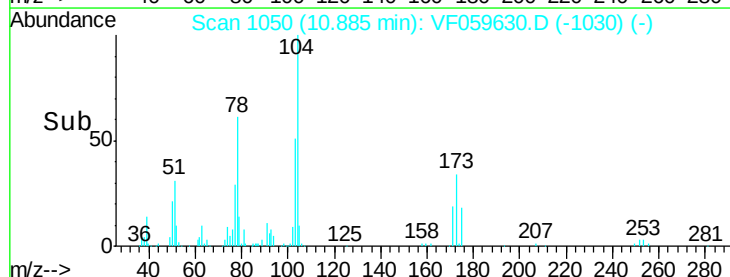
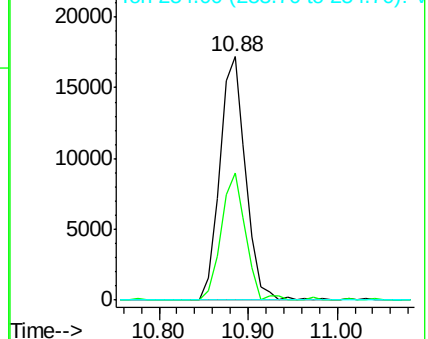
254 0.0 0.0 0.0

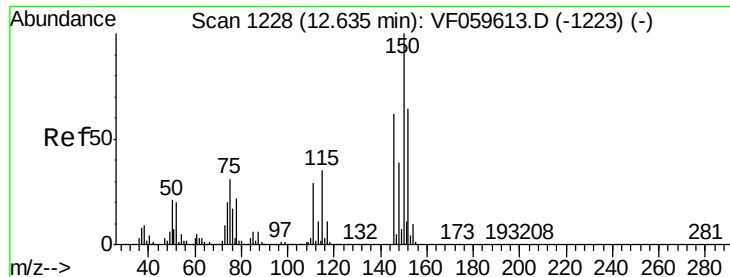


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

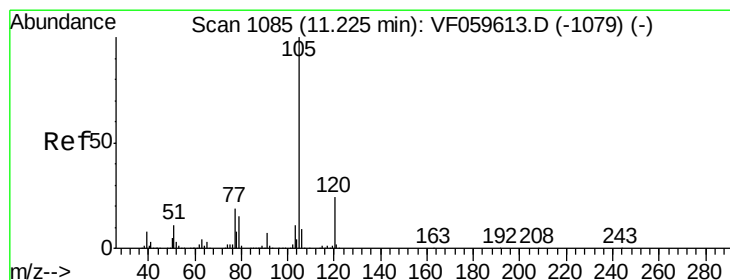
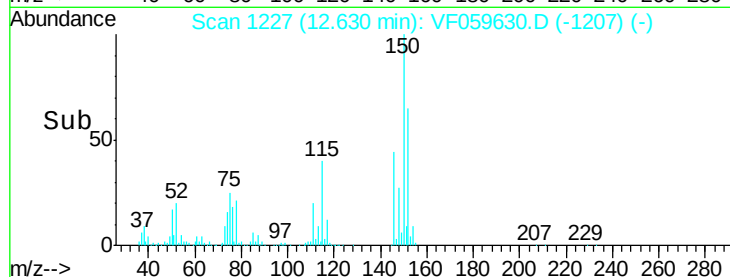
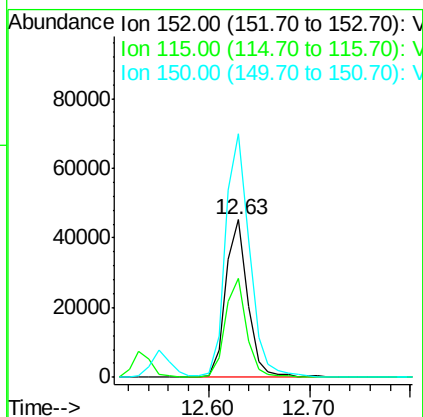
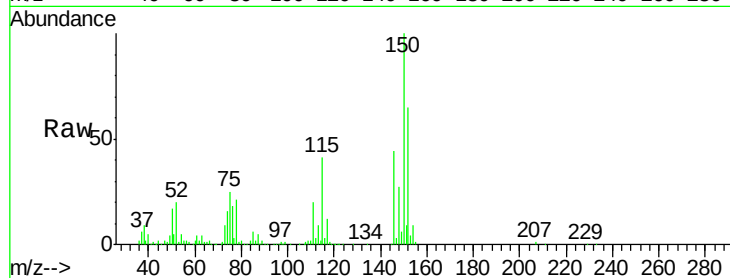




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.63 min Scan# 1227
 Delta R.T. -0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

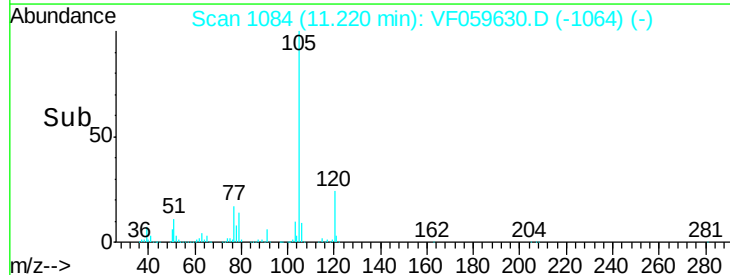
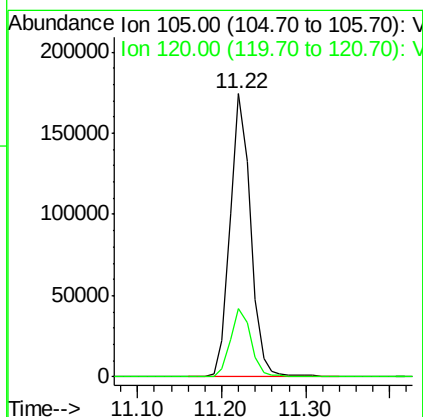
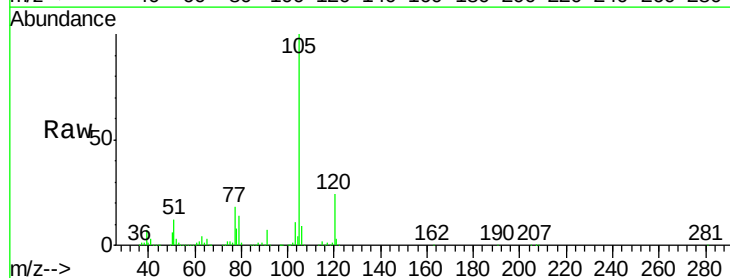
Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

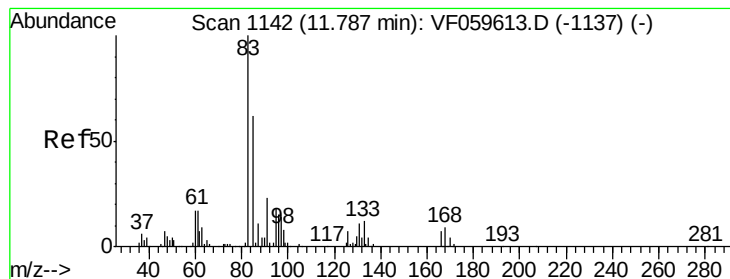
Tgt Ion:152 Resp: 68916
 Ion Ratio Lower Upper
 152 100
 115 62.6 27.8 83.4
 150 154.5 0.0 314.6



#73
 Isopropylbenzene
 Concen: 67.875 ug/l
 RT: 11.22 min Scan# 1084
 Delta R.T. -0.00 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Tgt Ion:105 Resp: 297096
 Ion Ratio Lower Upper
 105 100
 120 24.1 11.8 35.4





#75

1,1,2,2-Tetrachloroethane

Concen: 80.418 ug/l

RT: 11.78 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

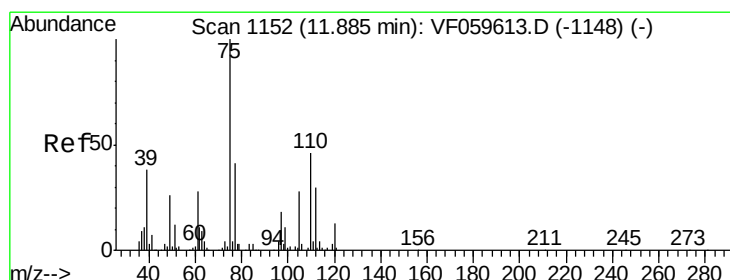
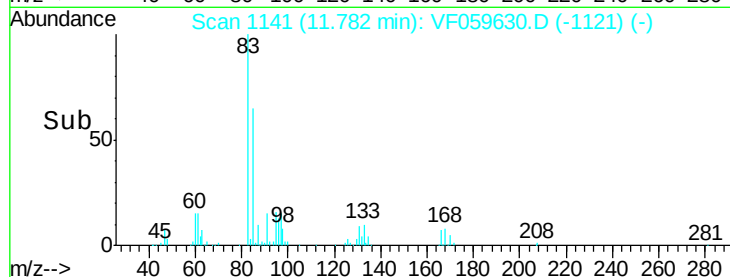
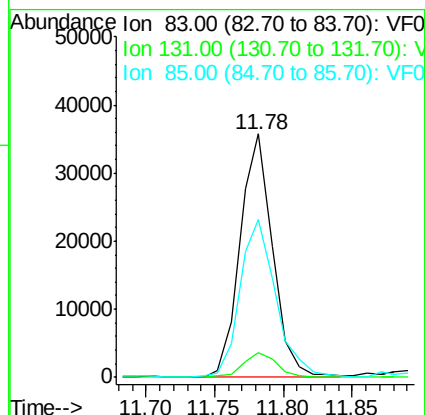
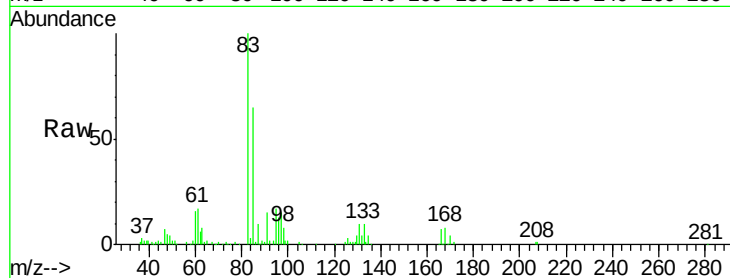
Tgt Ion: 83 Resp: 59091

Ion Ratio Lower Upper

83 100

131 9.9 5.7 17.0

85 64.9 31.1 93.3



#76

1,2,3-Trichloropropane

Concen: 81.207 ug/l

RT: 11.88 min Scan# 1151

Delta R.T. -0.01 min

Lab File: VF059630.D

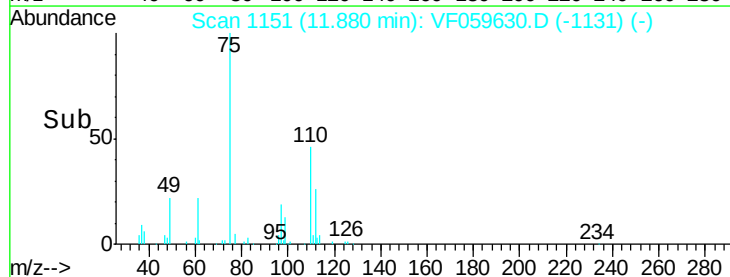
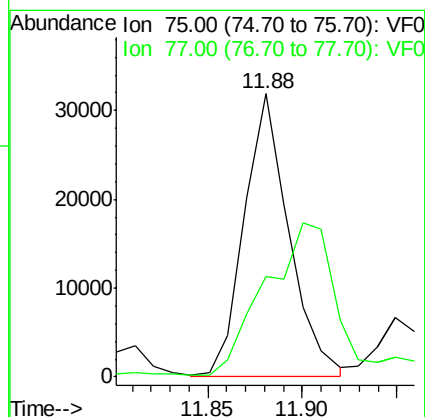
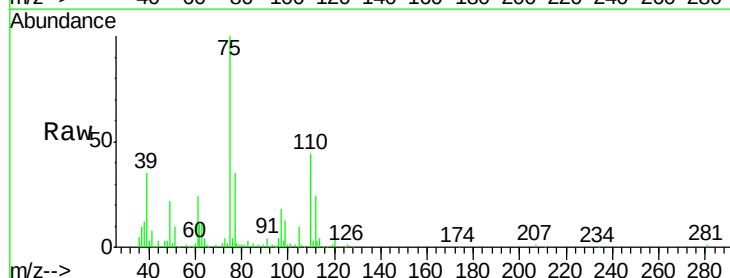
Acq: 23 Jul 2018 22:45

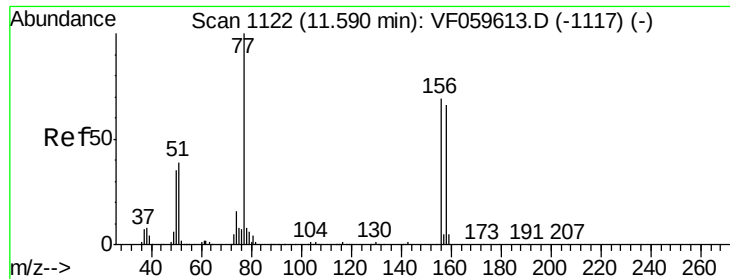
Tgt Ion: 75 Resp: 52129

Ion Ratio Lower Upper

75 100

77 35.4 20.9 62.8





#77

Bromobenzene

Concen: 62.570 ug/l

RT: 11.58 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

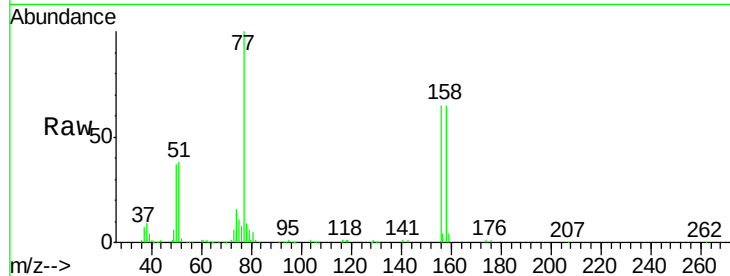
Tgt Ion:156 Resp: 70958

Ion Ratio Lower Upper

156 100

77 153.6 72.1 216.3

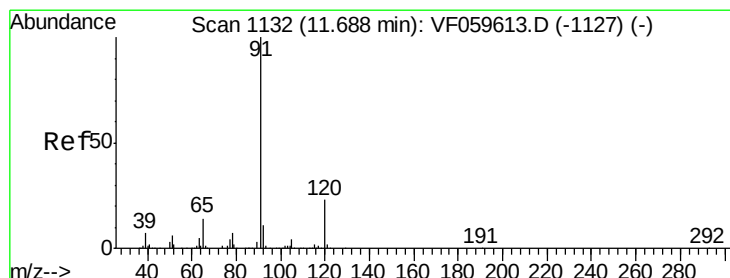
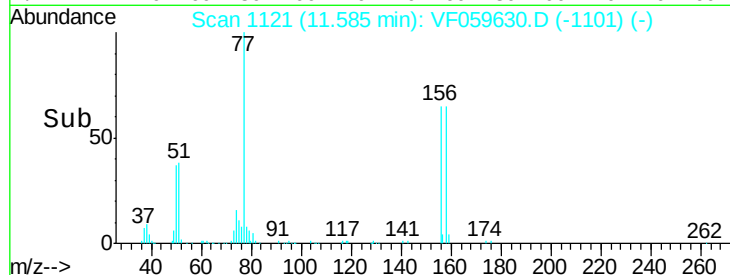
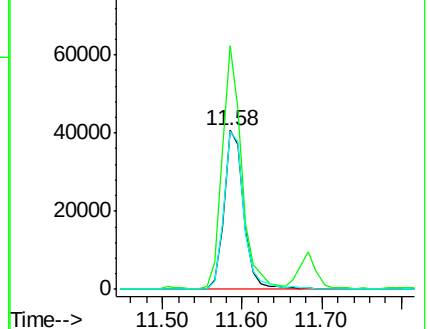
158 99.9 47.3 141.9



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 57.425 ug/l

RT: 11.68 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF059630.D

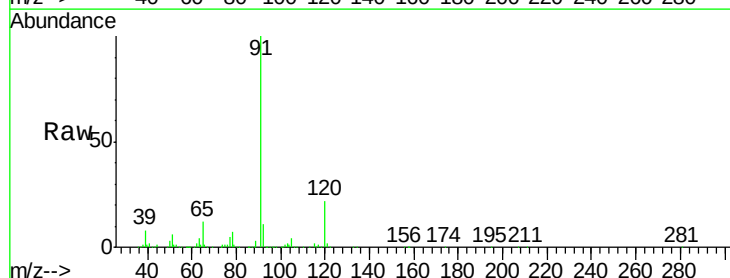
Acq: 23 Jul 2018 22:45

Tgt Ion: 91 Resp: 301215

Ion Ratio Lower Upper

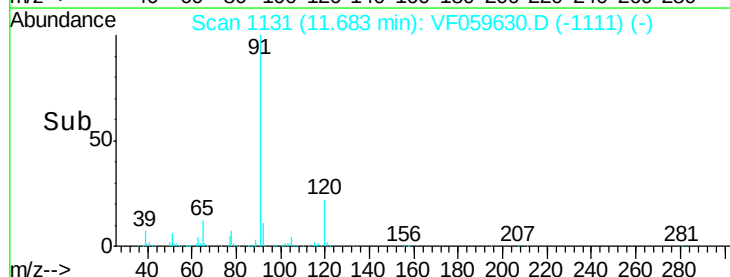
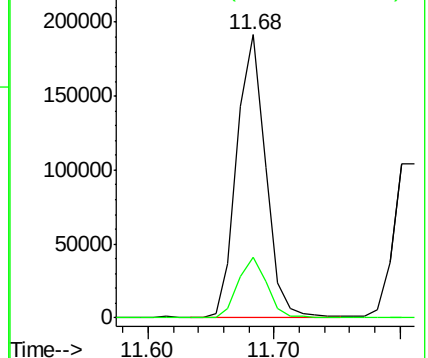
91 100

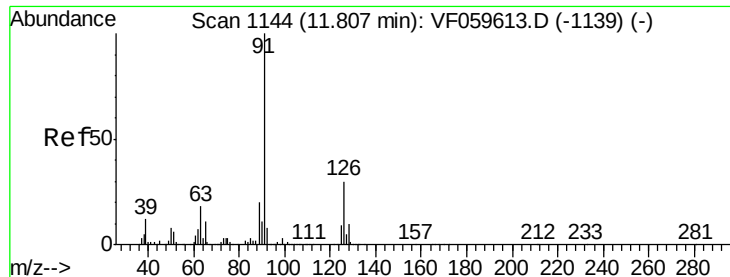
120 21.6 11.6 34.7



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 57.217 ug/l

RT: 11.80 min Scan# 1143

Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

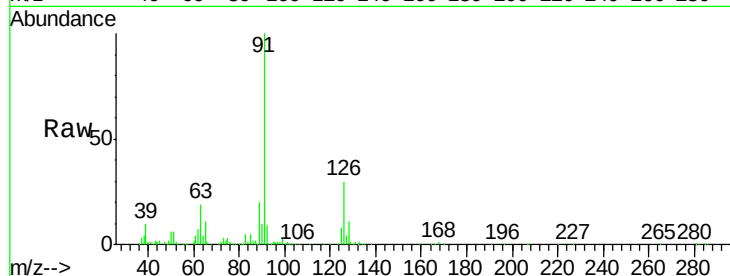
GL-TOPSOIL-09MS

Tgt Ion: 91 Resp: 179869

Ion Ratio Lower Upper

91 100

126 30.1 15.1 45.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

120000

100000

80000

60000

40000

20000

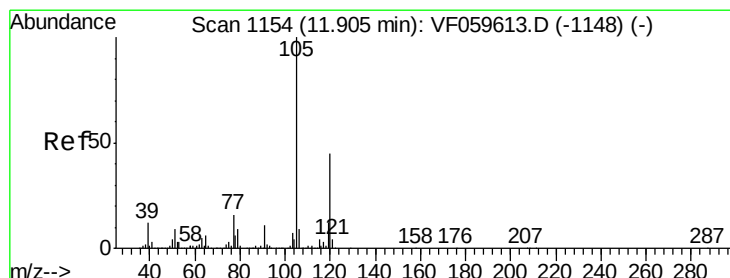
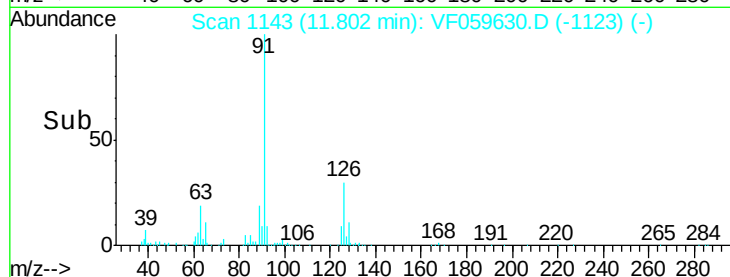
0

11.70

11.80

11.90

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 51.959 ug/l

RT: 11.91 min Scan# 1154

Delta R.T. 0.01 min

Lab File: VF059630.D

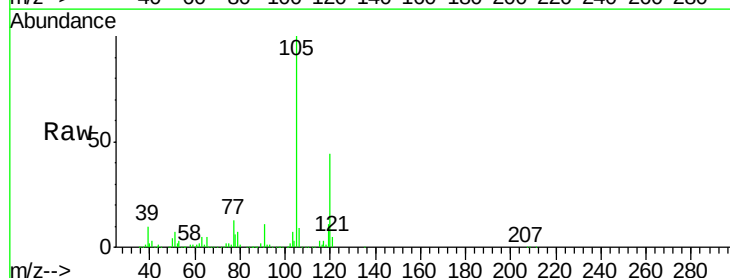
Acq: 23 Jul 2018 22:45

Tgt Ion: 105 Resp: 203592

Ion Ratio Lower Upper

105 100

120 44.3 22.4 67.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

150000

100000

50000

0

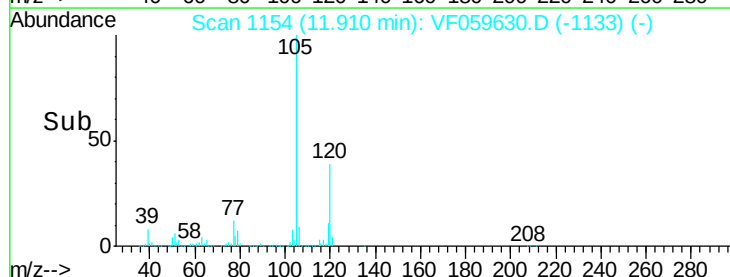
11.80

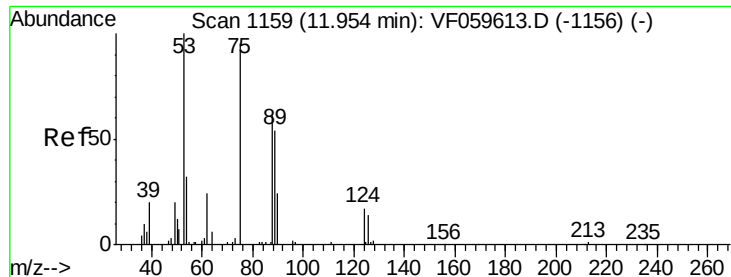
11.90

12.00

12.10

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 71.597 ug/l

RT: 11.95 min Scan# 1158

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

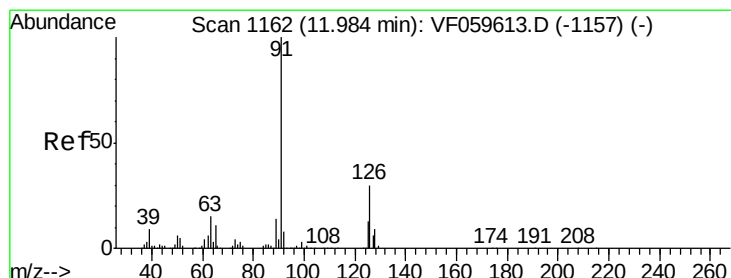
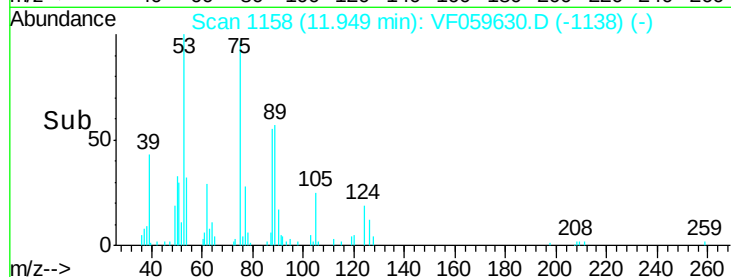
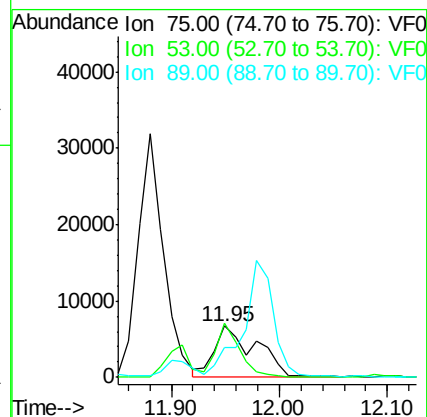
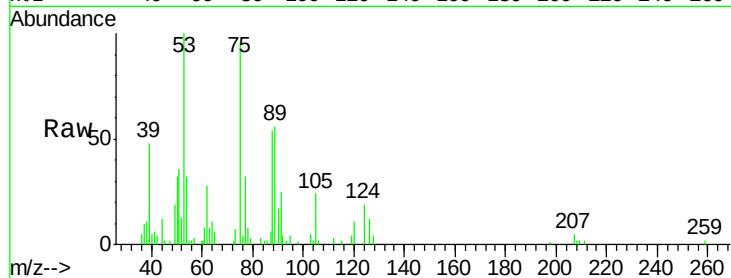
Tgt Ion: 75 Resp: 18229

Ion Ratio Lower Upper

75 100

53 105.3 86.4 129.6

89 58.9 46.8 70.2



#82

4-Chlorotoluene

Concen: 54.977 ug/l

RT: 11.98 min Scan# 1161

Delta R.T. -0.01 min

Lab File: VF059630.D

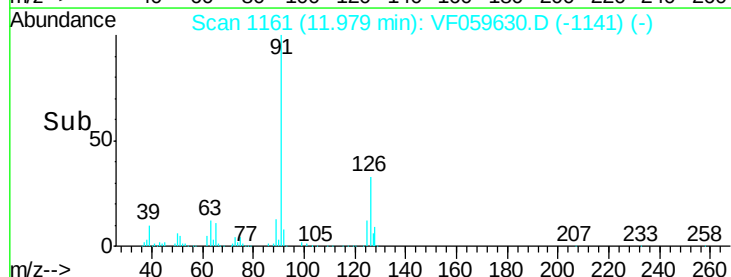
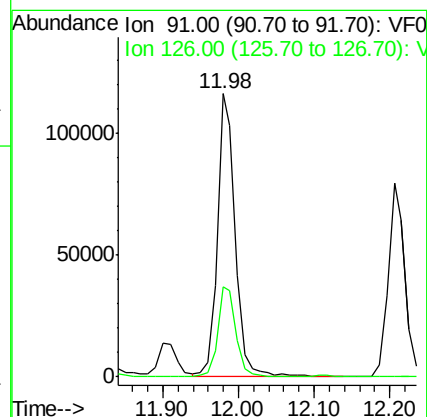
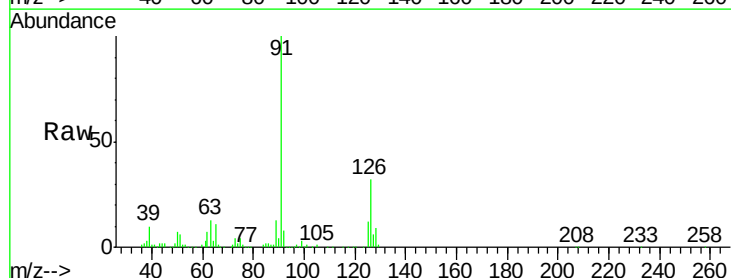
Acq: 23 Jul 2018 22:45

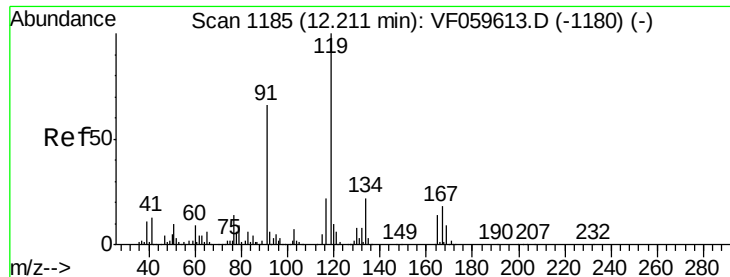
Tgt Ion: 91 Resp: 192237

Ion Ratio Lower Upper

91 100

126 31.8 14.7 44.1

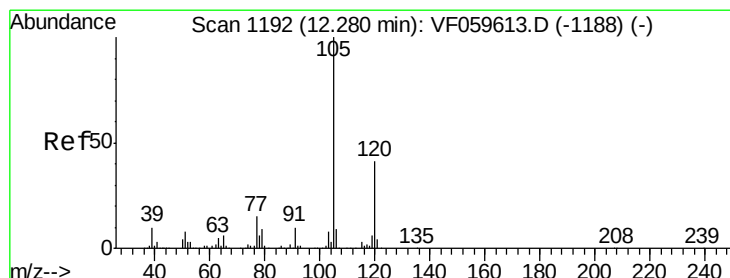
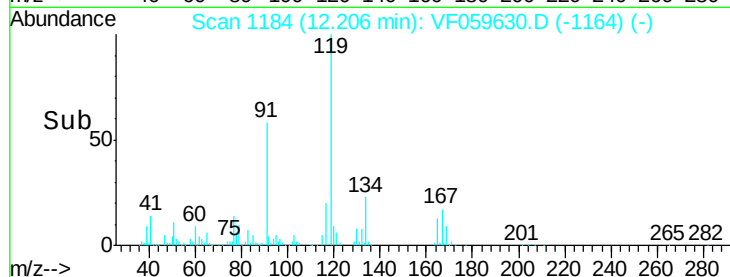
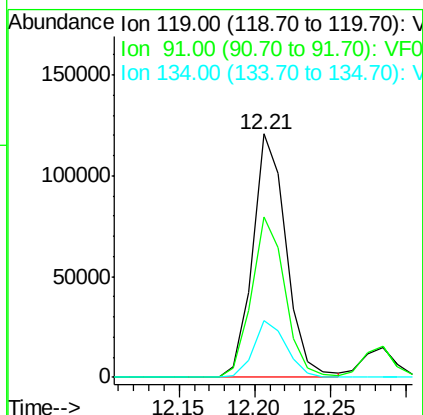
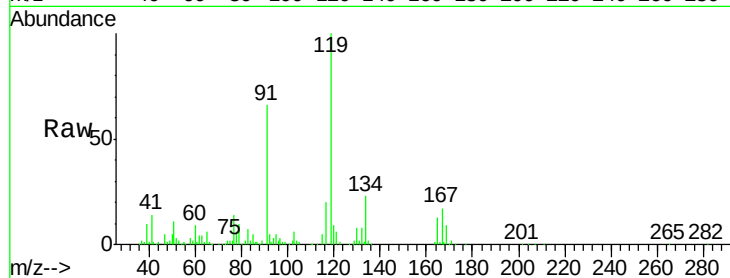




#83
 tert-Butylbenzene
 Concen: 48.226 ug/l
 RT: 12.21 min Scan# 1184
 Delta R.T. -0.00 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

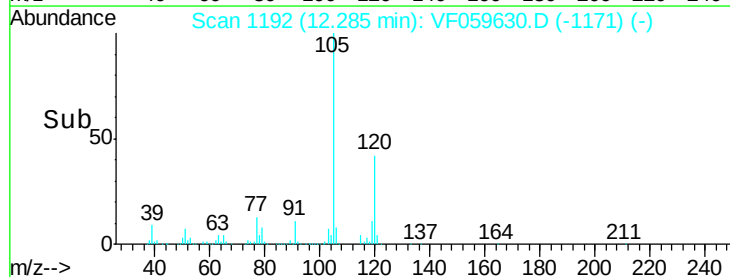
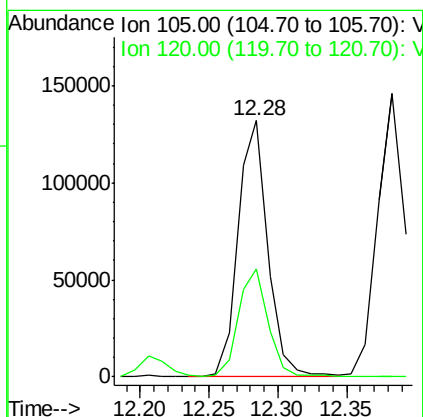
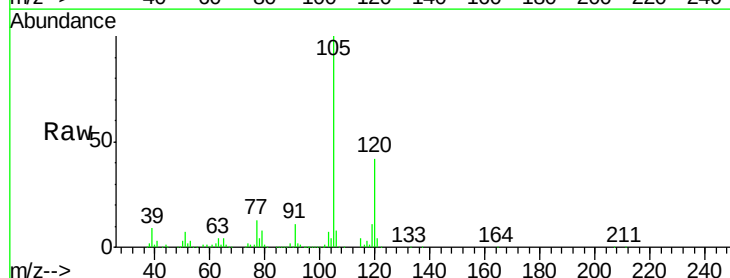
Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

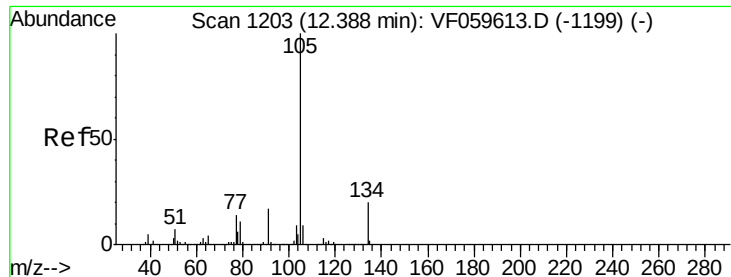
Tgt Ion:119 Resp: 186852
 Ion Ratio Lower Upper
 119 100
 91 65.9 33.2 99.6
 134 23.2 10.9 32.6



#84
 1,2,4-Trimethylbenzene
 Concen: 49.877 ug/l
 RT: 12.28 min Scan# 1192
 Delta R.T. 0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Tgt Ion:105 Resp: 198819
 Ion Ratio Lower Upper
 105 100
 120 42.1 20.4 61.3





#85

sec-Butylbenzene

Concen: 41.629 ug/l

RT: 12.38 min Scan# 1202

Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

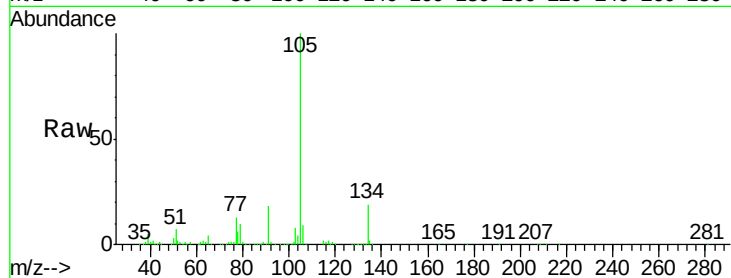
GL-TOPSOIL-09MS

Tgt Ion:105 Resp: 208473

Ion Ratio Lower Upper

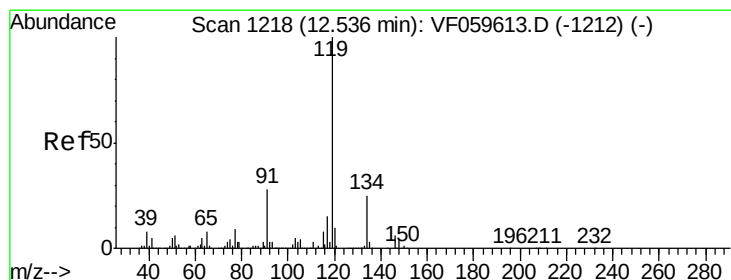
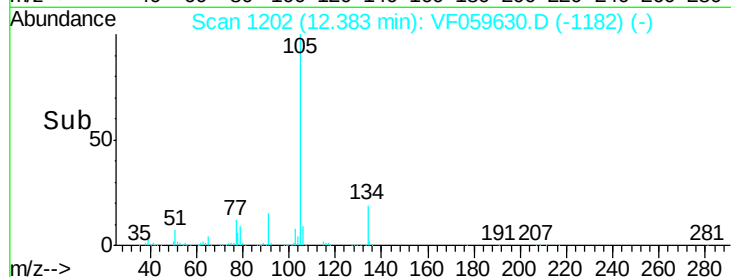
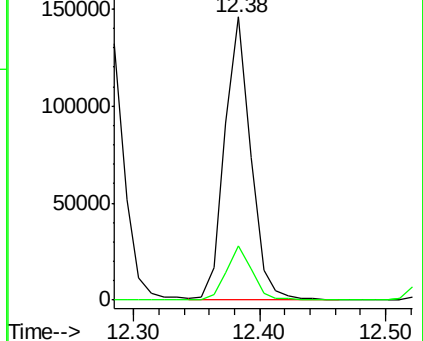
105 100

134 19.3 9.9 29.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 30.155 ug/l

RT: 12.53 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

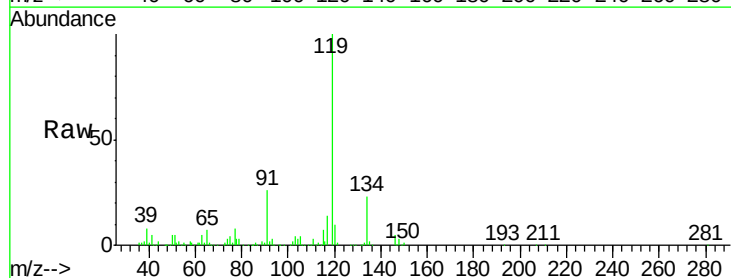
Tgt Ion:119 Resp: 132908

Ion Ratio Lower Upper

119 100

134 23.1 12.4 37.2

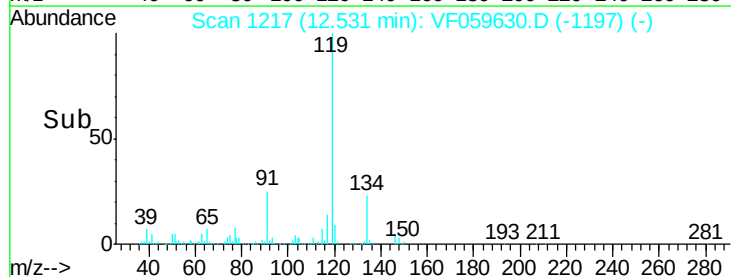
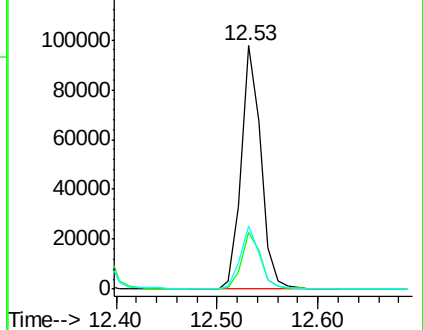
91 25.8 13.9 41.7

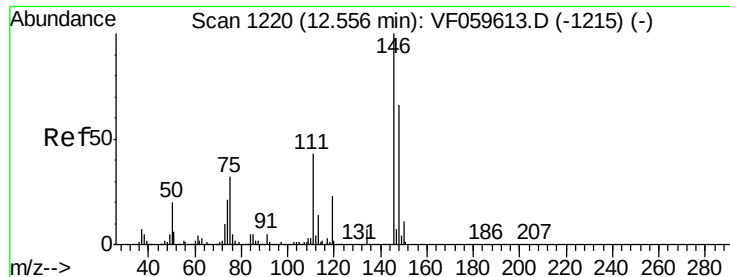


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 43.001 ug/l

RT: 12.55 min Scan# 1219

Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

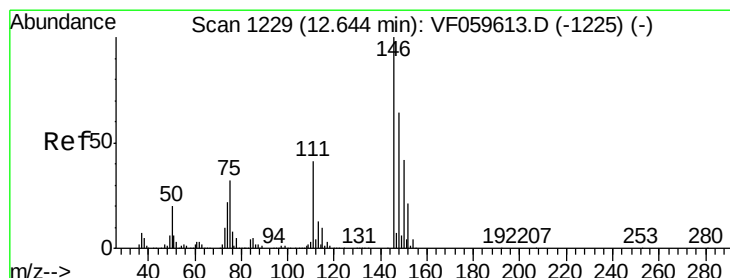
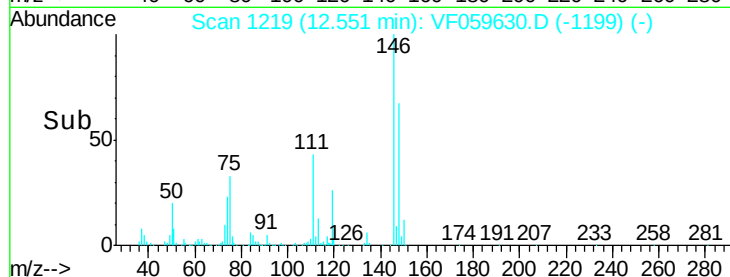
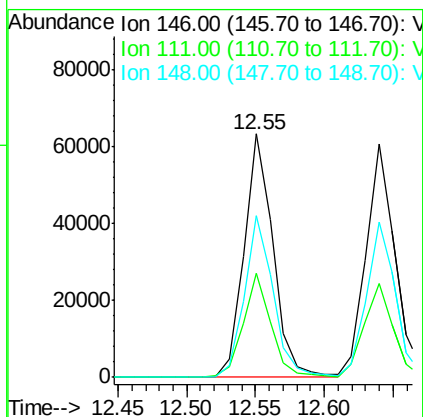
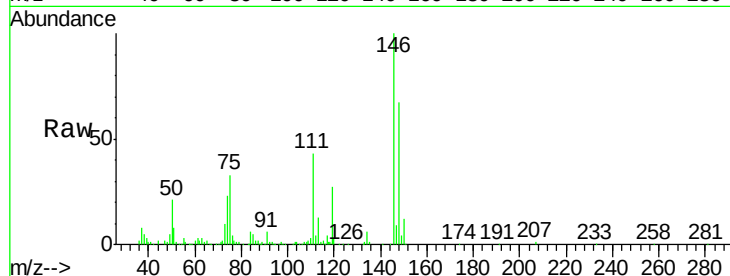
Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

Tgt Ion:	146	Resp:	93507
Ion Ratio	Lower	Upper	
146	100		
111	42.6	21.6	64.8
148	66.6	33.1	99.3



#88

1,4-Dichlorobenzene

Concen: 44.755 ug/l

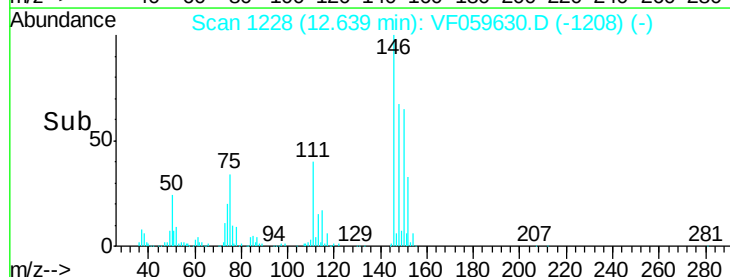
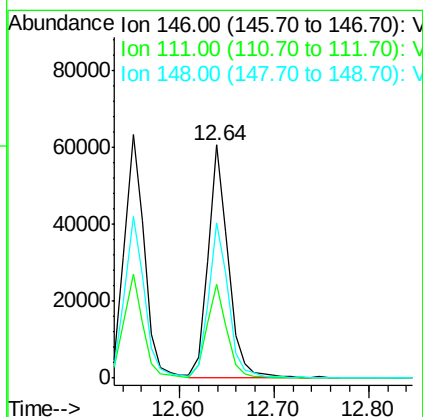
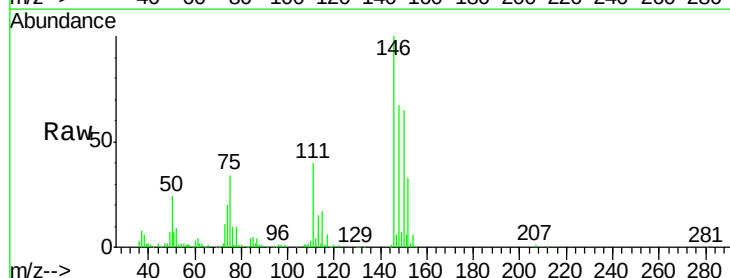
RT: 12.64 min Scan# 1228

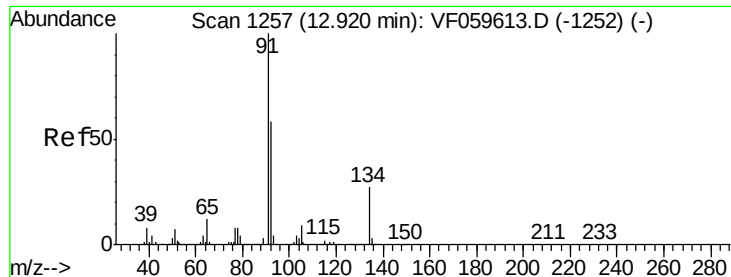
Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Tgt Ion:	146	Resp:	91311
Ion Ratio	Lower	Upper	
146	100		
111	40.5	20.5	61.5
148	66.8	32.3	96.8





#89

n-Butylbenzene

Concen: 25.689 ug/l

RT: 12.92 min Scan# 1256

Delta R.T. -0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

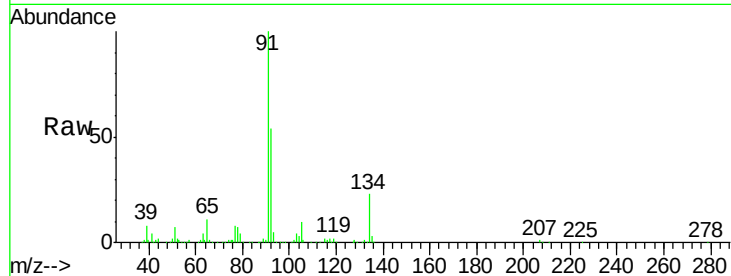
Tgt Ion: 91 Resp: 108181

Ion Ratio Lower Upper

91 100

92 54.1 28.8 86.4

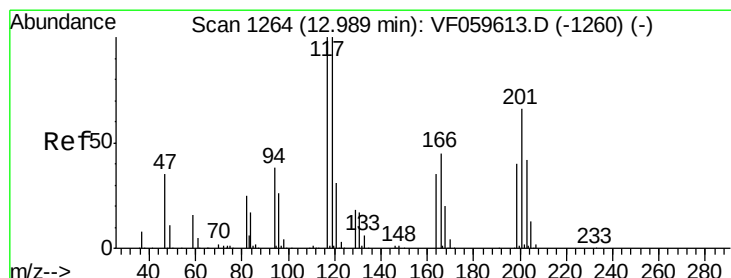
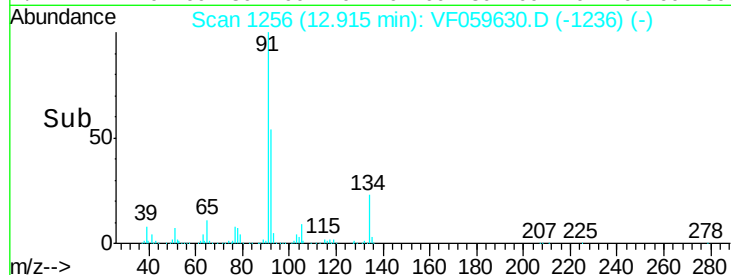
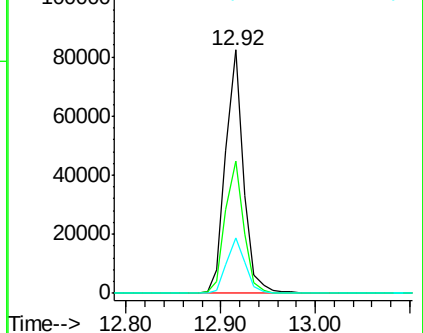
134 22.6 13.5 40.4



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 29.836 ug/l

RT: 12.99 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VF059630.D

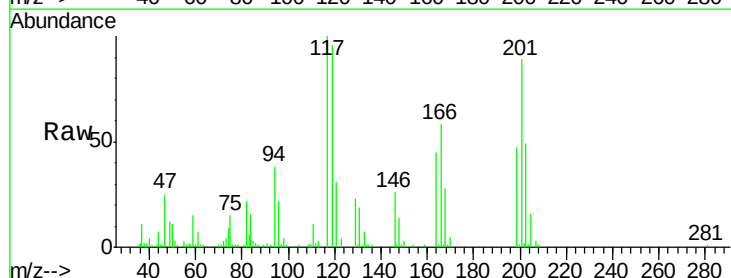
Acq: 23 Jul 2018 22:45

Tgt Ion: 117 Resp: 32580

Ion Ratio Lower Upper

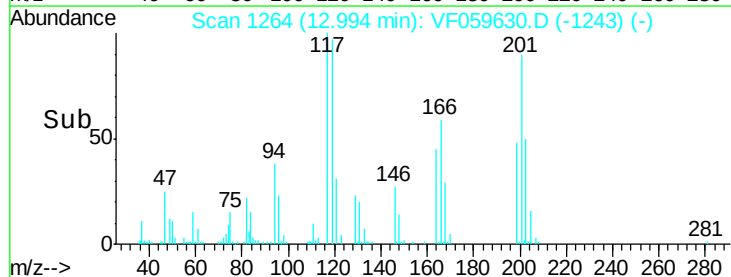
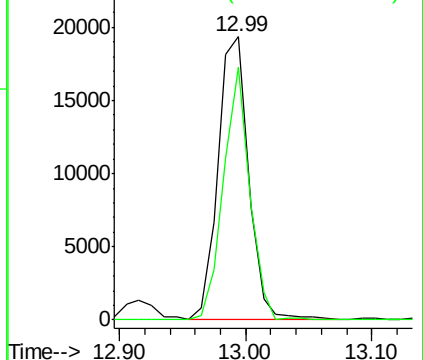
117 100

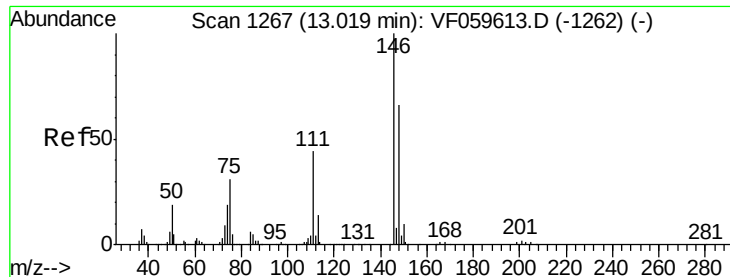
201 91.0 33.6 100.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

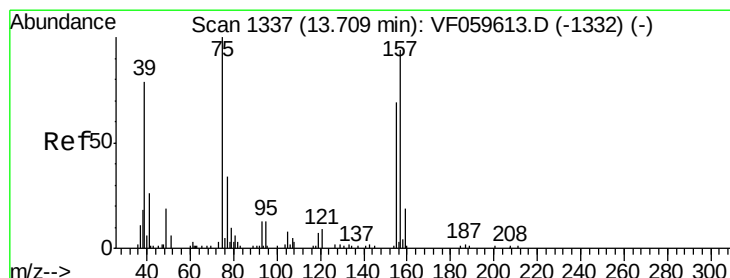
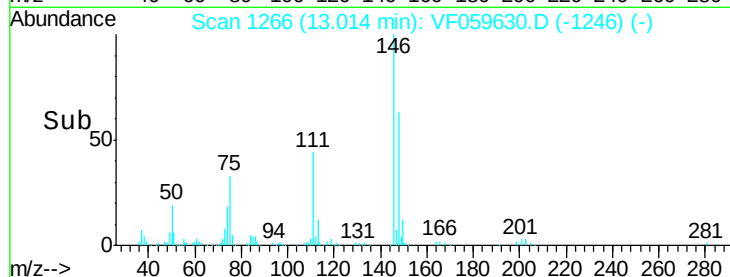
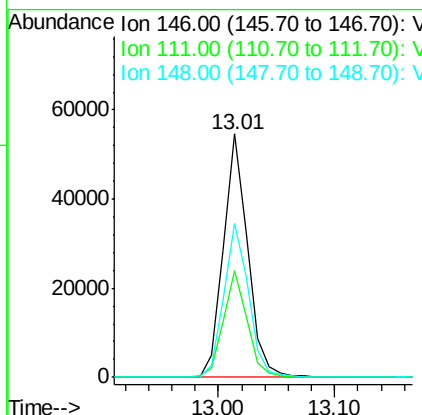
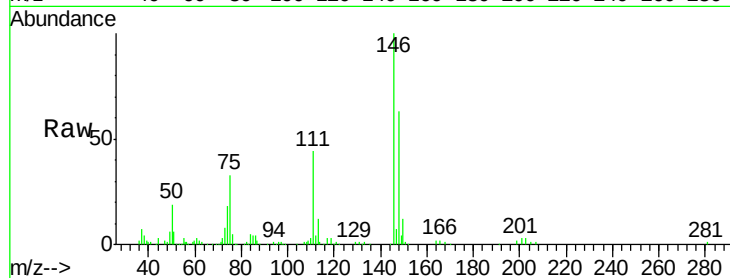




#91
 1,2-Dichlorobenzene
 Concen: 39.114 ug/l
 RT: 13.01 min Scan# 1266
 Delta R.T. -0.00 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

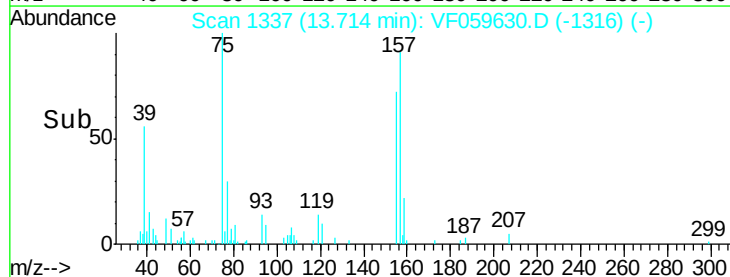
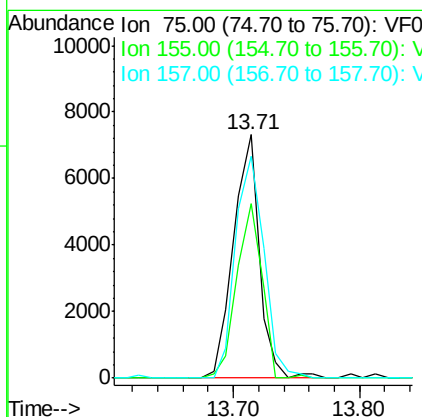
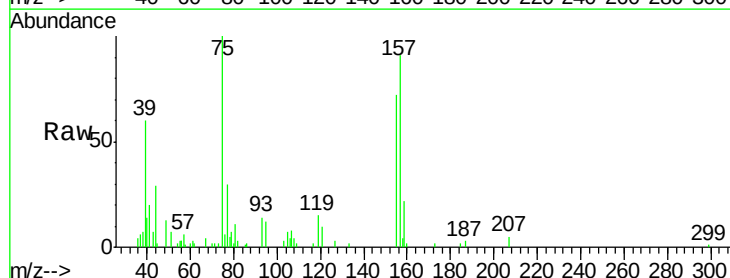
Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

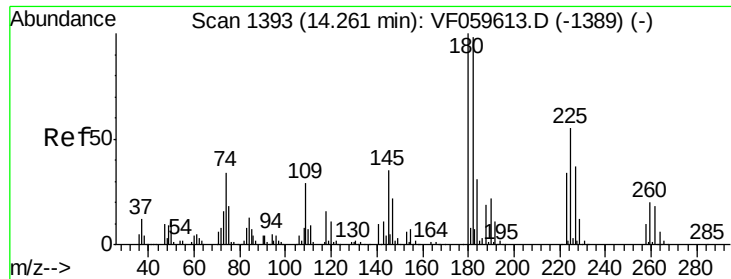
Tgt Ion:146 Resp: 79282
 Ion Ratio Lower Upper
 146 100
 111 44.0 21.8 65.3
 148 63.3 32.9 98.7



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 58.914 ug/l
 RT: 13.71 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Tgt Ion: 75 Resp: 10420
 Ion Ratio Lower Upper
 75 100
 155 71.9 34.6 103.8
 157 94.7 47.0 141.0

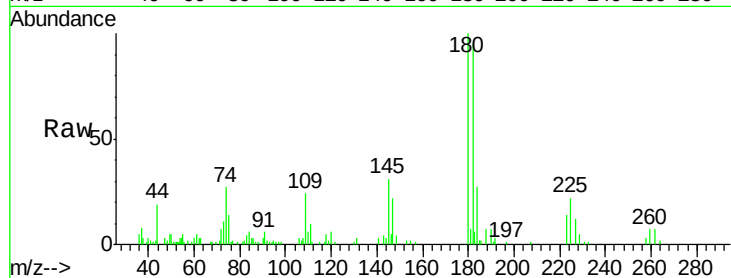




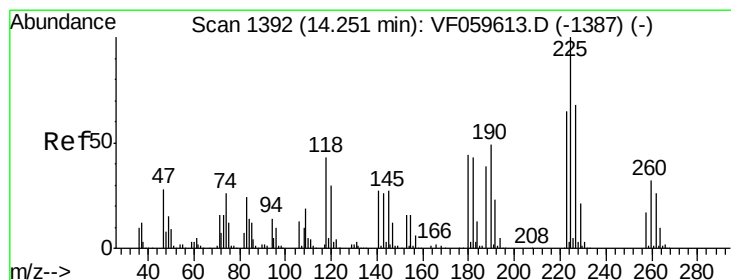
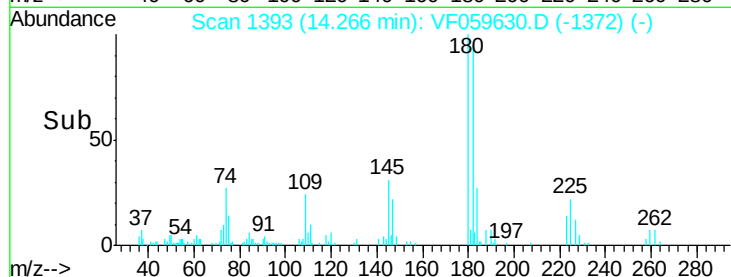
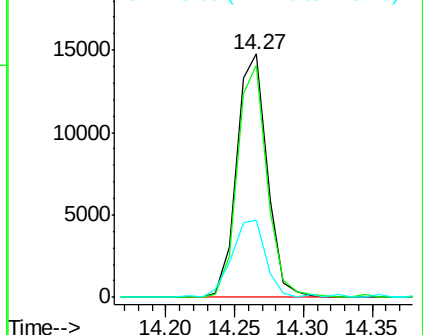
#93
 1,2,4-Trichlorobenzene
 Concen: 15.078 ug/l
 RT: 14.27 min Scan# 1393
 Delta R.T. 0.00 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Instrument :
 MSVOA_F
 ClientSampleId :
 GL-TOPSOIL-09MS

Tgt Ion:180 Resp: 22844
 Ion Ratio Lower Upper
 180 100
 182 95.1 48.8 146.3
 145 31.5 17.5 52.6

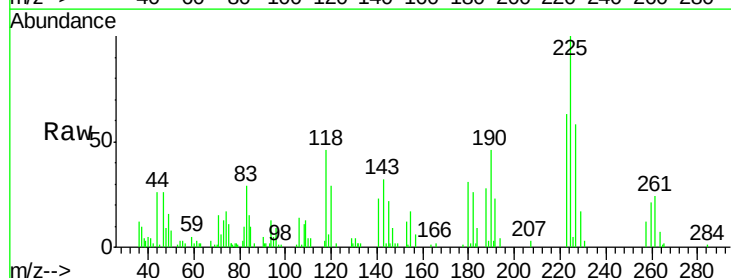


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

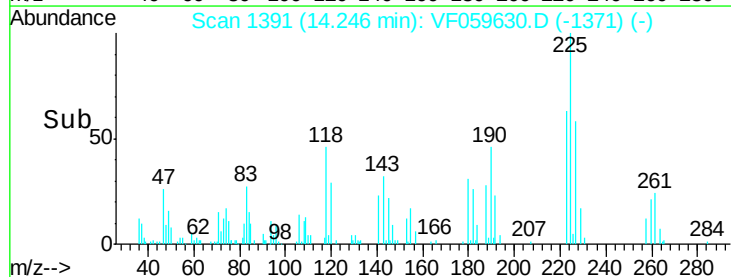
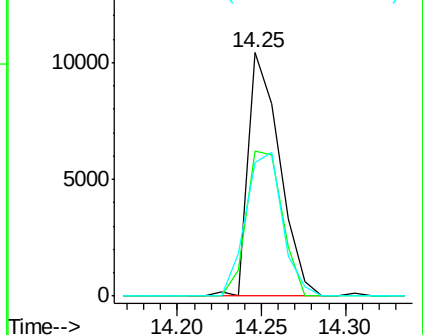


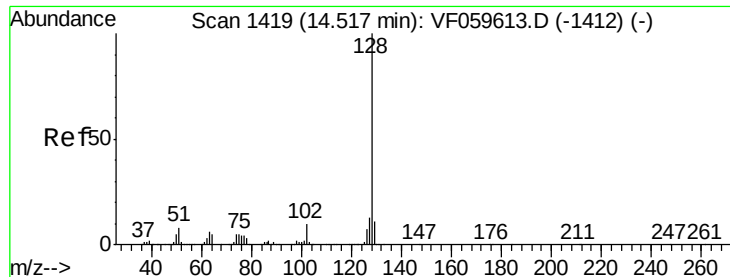
#94
 Hexachlorobutadiene
 Concen: 12.770 ug/l
 RT: 14.25 min Scan# 1391
 Delta R.T. -0.01 min
 Lab File: VF059630.D
 Acq: 23 Jul 2018 22:45

Tgt Ion:225 Resp: 13468
 Ion Ratio Lower Upper
 225 100
 223 59.5 32.6 98.0
 227 55.0 33.9 101.6



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V





#95

Naphthalene

Concen: 18.198 ug/l

RT: 14.52 min Scan# 1419

Delta R.T. 0.00 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

Instrument :

MSVOA_F

ClientSampleId :

GL-TOPSOIL-09MS

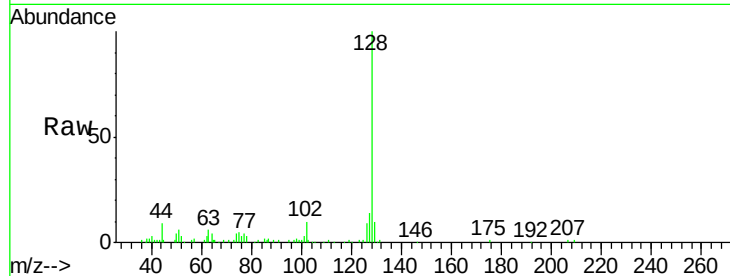
Tgt Ion:128 Resp: 44778

Ion Ratio Lower Upper

128 100

127 13.9 10.2 15.2

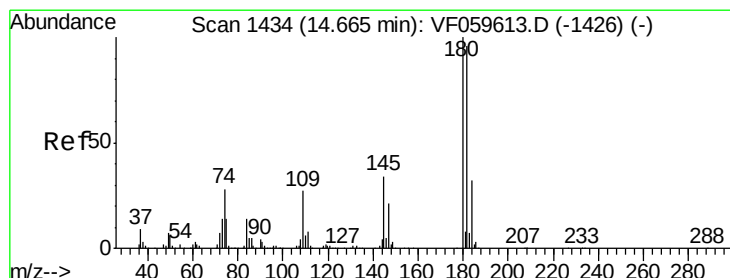
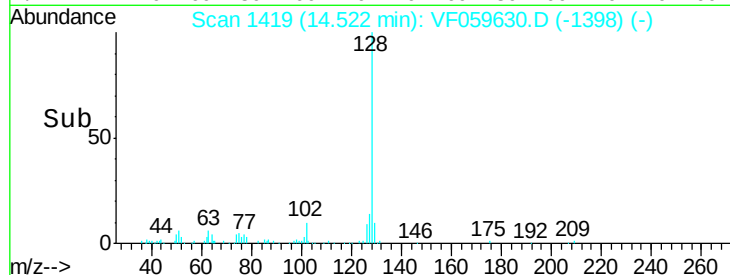
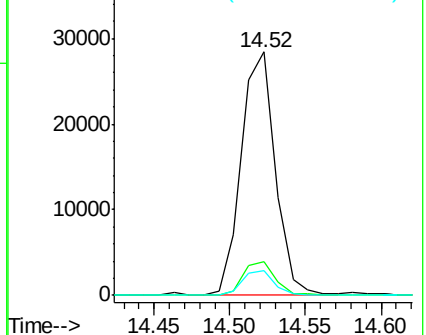
129 10.4 9.1 13.7



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



#96

1,2,3-Trichlorobenzene

Concen: 12.221 ug/l

RT: 14.66 min Scan# 1433

Delta R.T. -0.01 min

Lab File: VF059630.D

Acq: 23 Jul 2018 22:45

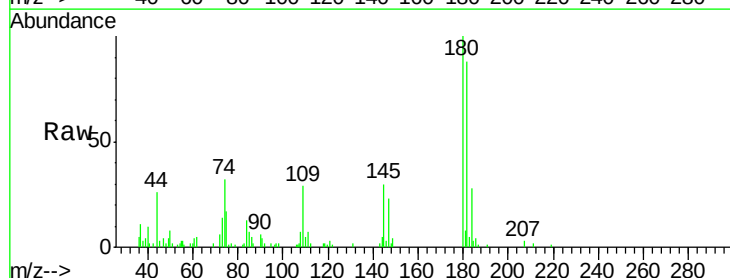
Tgt Ion:180 Resp: 16832

Ion Ratio Lower Upper

180 100

182 87.8 48.0 144.2

145 29.8 17.1 51.2



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

