

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100418\
 Data File : VF060444.D
 Acq On : 4 Oct 2018 19:06
 Operator : VA/AP
 Sample : J5212-01
 Misc : 7.38/5mL/MSVOA F/SOIL
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CG-SOIL-1

Quant Time: Oct 05 01:11:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 11:42:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.04	168	86	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	6.03	114	80	50.00	ug/l	0.29
63) Chlorobenzene-d5	10.27	117	66	50.00	ug/l	0.38
72) 1,4-Dichlorobenzene-d4	0.00	152	0	0.00	ug/l	-12.62

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.03	65	174	129.30	ug/l	0.04
Spiked Amount	50.000		Recovery	=	258.60%	
35) Dibromofluoromethane	4.50	113	66	87.82	ug/l	0.24
Spiked Amount	50.000		Recovery	=	175.64%	
50) Toluene-d8	8.08	98	61	32.96	ug/l	0.40
Spiked Amount	50.000		Recovery	=	65.92%	
62) 4-Bromofluorobenzene	12.05	95	83	98.21	ug/l	0.56
Spiked Amount	50.000		Recovery	=	196.42%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.01	85	127	71.101	ug/l #	43
3) Chloromethane	1.15	50	171	146.429	ug/l #	41
4) Vinyl Chloride	1.13	62	209	172.042	ug/l #	42
5) Bromomethane	1.37	94	81	86.081	ug/l #	3
6) Chloroethane	1.42	64	207	341.455	ug/l #	42
7) Trichlorofluoromethane	1.54	101	65	23.062	ug/l #	18
8) Diethyl Ether	1.58	74	224	579.910	ug/l	63
9) 1,1,2-Trichlorotrifluoroet	1.90	101	79	58.515	ug/l #	22
10) Methyl Iodide	2.04	142	184	89.369	ug/l #	1
11) Tert butyl alcohol	2.70	59	138	1695.379	ug/l #	77
12) 1,1-Dichloroethene	1.83	96	109	104.490	ug/l #	1
13) Acrolein	2.06	56	74	1130.448	ug/l #	16
14) Allyl chloride	2.17	41	206	123.242	ug/l #	65
15) Acrylonitrile	3.08	53	64	458.865	ug/l #	14
16) Acetone	2.34	43	293	1141.581	ug/l #	66
17) Carbon Disulfide	1.88	76	182	57.617	ug/l #	68
18) Methyl Acetate	2.46	43	141	287.223	ug/l #	57
19) Methyl tert-butyl Ether	2.54	73	80	31.486	ug/l #	1
20) Methylene Chloride	2.27	84	69	72.790	ug/l #	41
21) trans-1,2-Dichloroethene	2.42	96	91	87.345	ug/l #	1
22) Diisopropyl ether	2.92	45	302	99.539	ug/l #	1
23) Vinyl Acetate	3.33	43	285	236.474	ug/l #	1
24) 1,1-Dichloroethane	3.07	63	102	49.714	ug/l #	90
25) 2-Butanone	4.52	43	280	803.567	ug/l #	60
26) 2,2-Dichloropropane	3.75	77	111	95.522	ug/l #	61
27) cis-1,2-Dichloroethene	3.62	96	154	132.205	ug/l	1
28) Bromochloromethane	3.86	49	147	194.403	ug/l #	10
29) Tetrahydrofuran	4.24	42	63	484.258	ug/l #	34
30) Chloroform	4.05	83	73	28.835	ug/l #	15
31) Cyclohexane	3.89	56	163	110.638	ug/l #	14
32) 1,1,1-Trichloroethane	4.34	97	70	33.227	ug/l #	23
36) 1,1-Dichloropropene	4.74	75	124	125.718	ug/l #	45
37) Ethyl Acetate	4.48	43	323	855.158	ug/l #	1
38) Carbon Tetrachloride	4.31	117	124	103.281	ug/l #	13

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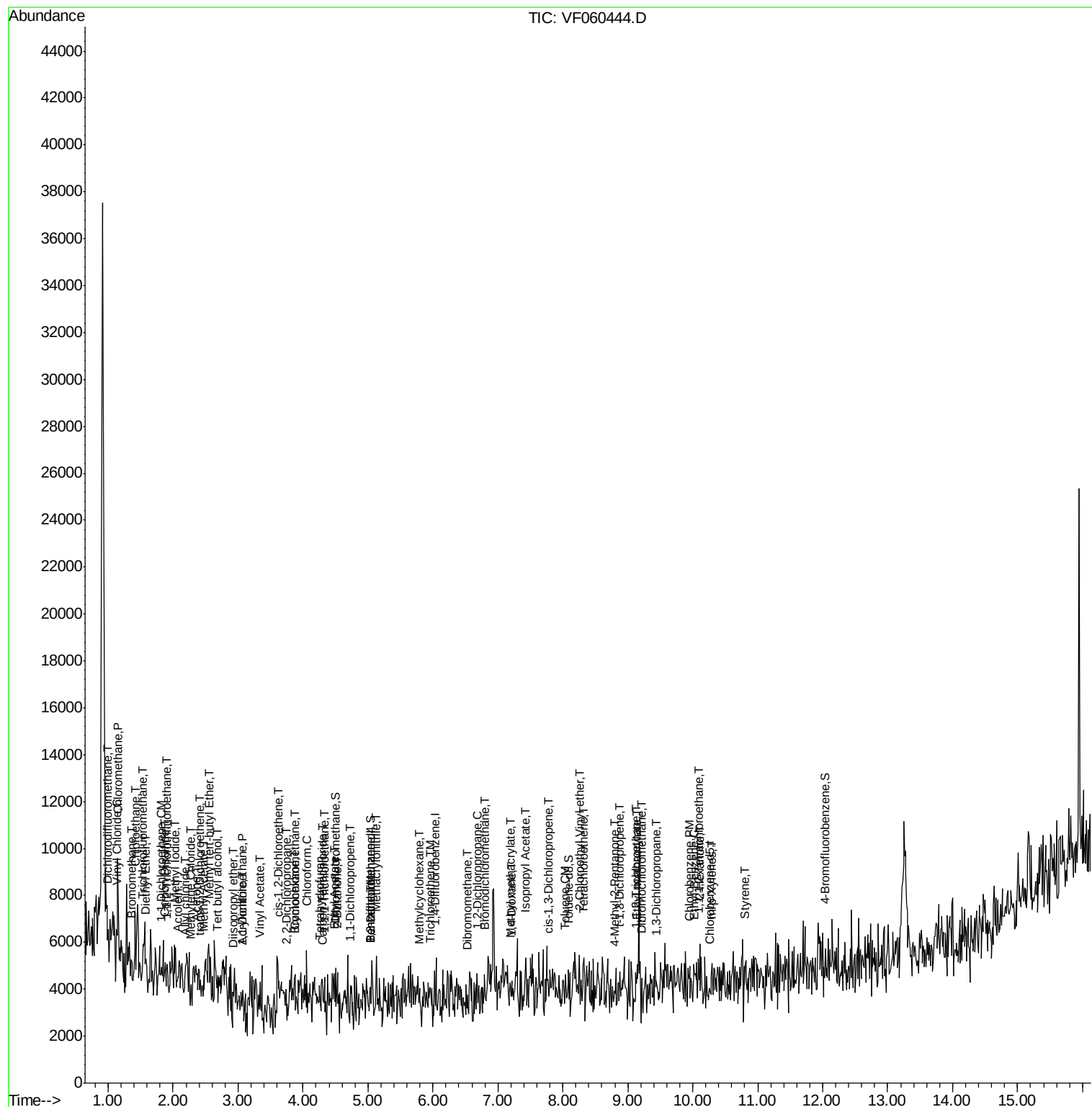
39) Methylcyclohexane	5.80	83	271	280.262	ug/l #	10
40) Benzene	5.04	78	66	33.707	ug/l #	51
41) Methacrylonitrile	5.12	41	465	2321.880	ug/l #	44
43) Isopropyl Acetate	7.44	43	187	409.682	ug/l #	44
44) Trichloroethene	5.97	130	60	95.500	ug/l	1
45) 1,2-Dichloropropane	6.69	63	59	113.145	ug/l #	1
46) Dibromomethane	6.53	93	66	157.424	ug/l #	9
47) Bromodichloromethane	6.80	83	66	63.563	ug/l #	23
48) Methyl methacrylate	7.18	41	992	3027.569	ug/l #	82
49) 1,4-Dioxane	7.21	88	69	24423.762	ug/l #	13
51) 4-Methyl-2-Pentanone	8.79	43	176	541.668	ug/l #	39
52) Toluene	8.04	92	69	51.881	ug/l #	1
53) t-1,3-Dichloropropene	8.87	75	92	113.058	ug/l #	44
54) cis-1,3-Dichloropropene	7.77	75	72	75.707	ug/l #	1
55) 1,1,2-Trichloroethane	9.12	97	96	227.725	ug/l #	18
56) Ethyl methacrylate	9.15	69	283	590.777	ug/l #	26
57) 1,3-Dichloropropane	9.44	76	76	106.567	ug/l #	43
58) 2-Chloroethyl Vinyl ether	8.26	63	63	1287.538	ug/l	100
59) 2-Hexanone	10.10	43	370	1552.496	ug/l #	27
60) Dibromochloromethane	9.22	129	69	108.709	ug/l #	11
64) Tetrachloroethene	8.33	164	95	181.069	ug/l #	31
65) Chlorobenzene	9.95	112	64	47.206	ug/l #	40
66) 1,1,1,2-Tetrachloroethane	10.08	131	66	111.491	ug/l #	9
67) Ethyl Benzene	10.02	91	149	57.800	ug/l #	47
68) m/p-Xylenes	10.29	106	92	103.817	ug/l #	1
70) Styrene	10.80	104	67	48.764	ug/l #	1

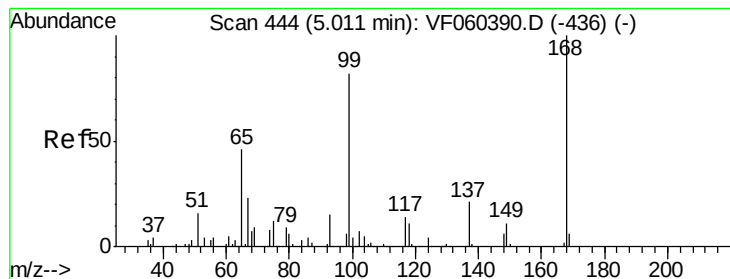
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.04 min Scan# 447

Delta R.T. 0.03 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

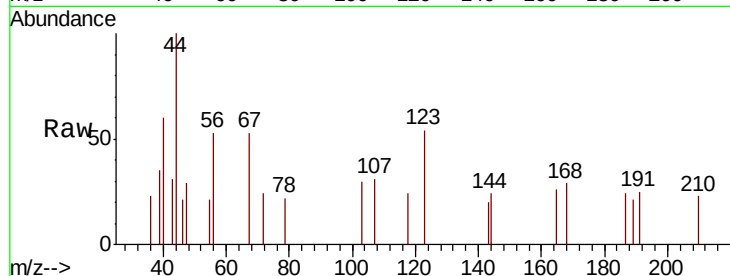
CG-SOIL-1

Tot Ion:168 Resp: 86

Ion Ratio Lower Upper

168 100

99 0.0 65.3 97.9#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.04

150

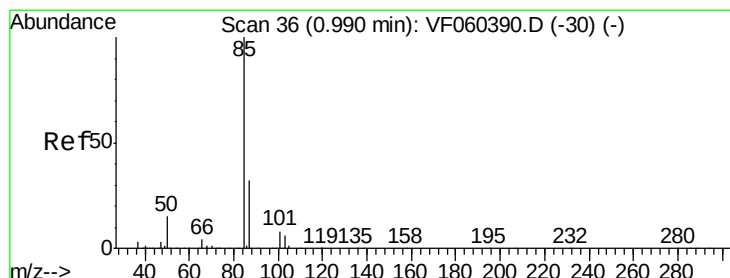
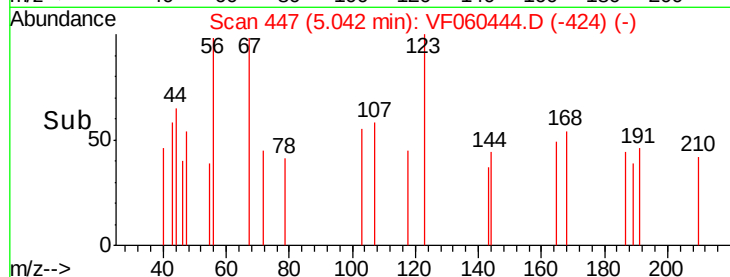
100

50

0

5.02 5.04 5.06

Time-->



#2

Dichlorodifluoromethane

Concen: 71.101 ug/l

RT: 1.01 min Scan# 38

Delta R.T. 0.02 min

Lab File: VF060444.D

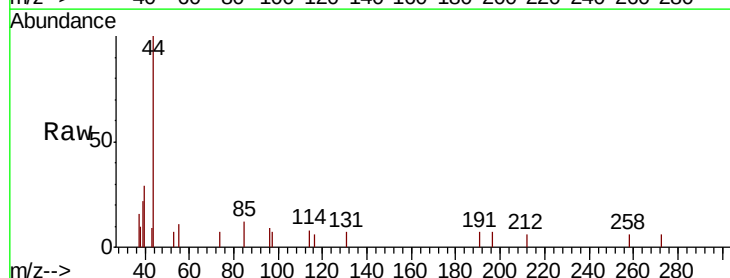
Acq: 4 Oct 2018 19:06

Tgt Ion: 85 Resp: 127

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.6#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

250

200

150

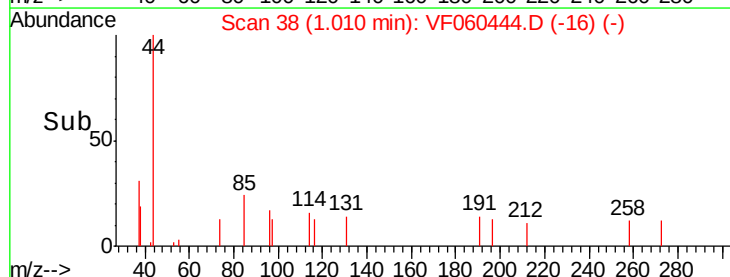
100

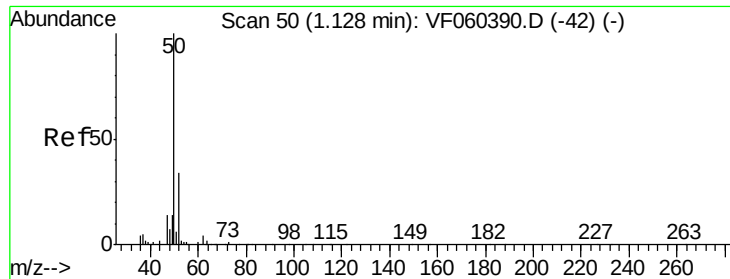
50

0

0.98 1.00 1.02 1.04

Time-->





#3

Chloromethane

Concen: 146.429 ug/l

RT: 1.15 min Scan# 52

Delta R.T. 0.02 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

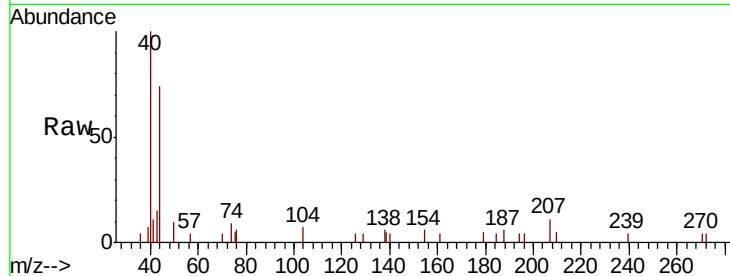
CG-SOIL-1

Tot Ion: 50 Resp: 171

Ion Ratio Lower Upper

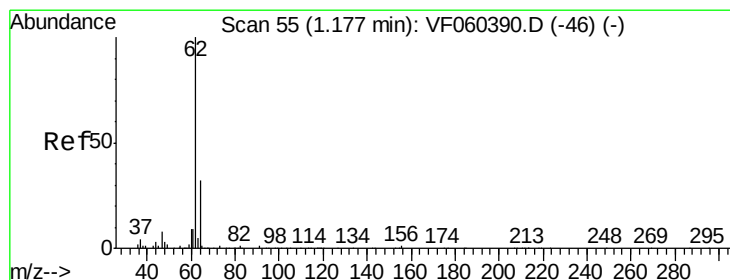
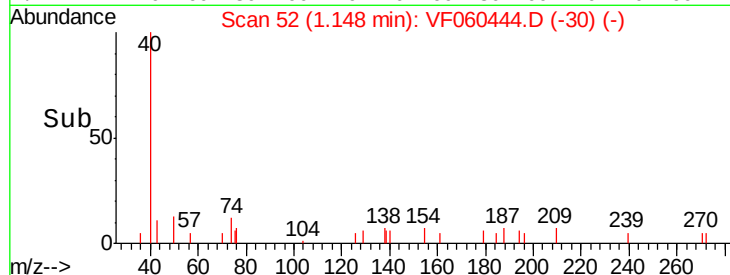
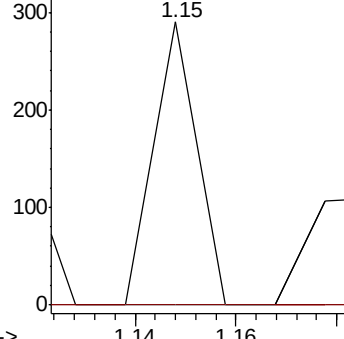
50 100

52 0.0 26.9 40.3#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 172.042 ug/l

RT: 1.13 min Scan# 50

Delta R.T. -0.05 min

Lab File: VF060444.D

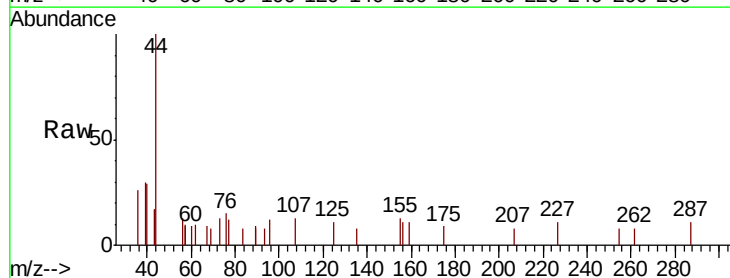
Acq: 4 Oct 2018 19:06

Tgt Ion: 62 Resp: 209

Ion Ratio Lower Upper

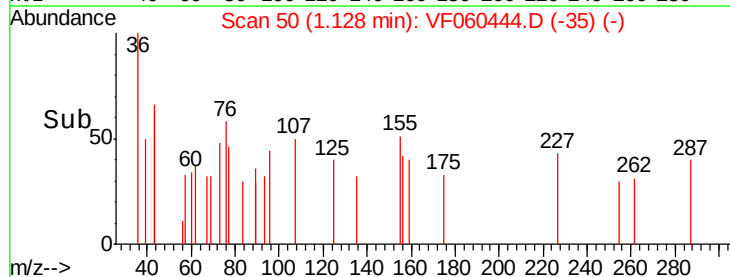
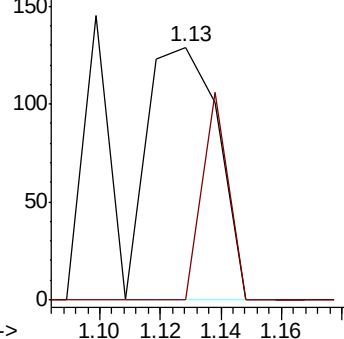
62 100

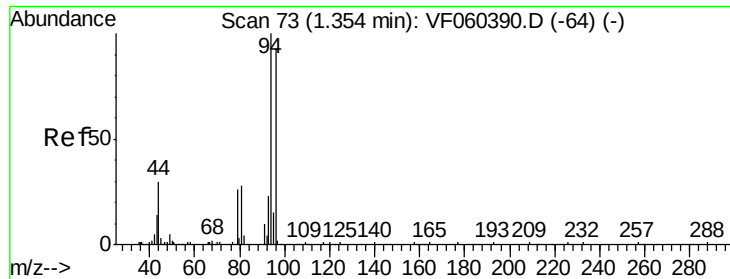
64 0.0 25.8 38.6#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 86.081 ug/l

RT: 1.37 min Scan# 75

Delta R.T. 0.02 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

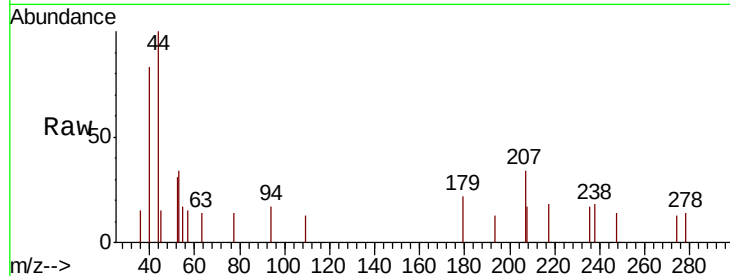
CG-SOIL-1

Tot Ion: 94 Resp: 81

Ion Ratio Lower Upper

94 100

96 0.0 74.3 111.5#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.37

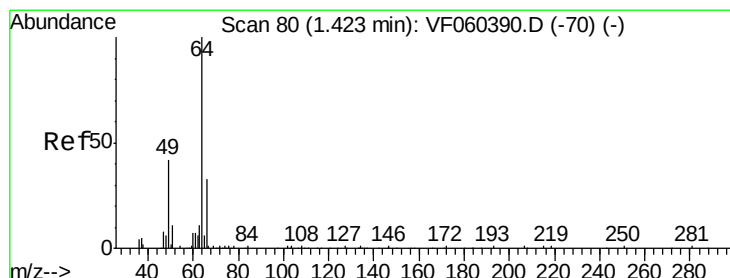
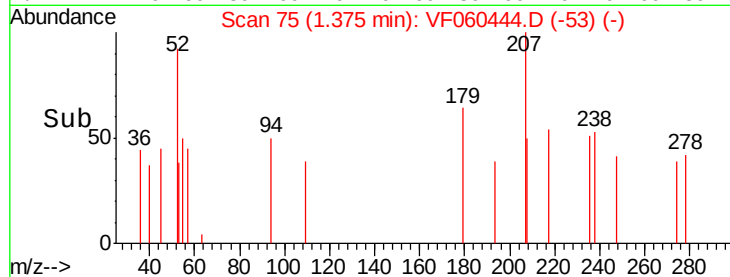
150

100

50

0

Time-->



#6

Chloroethane

Concen: 341.455 ug/l

RT: 1.42 min Scan# 80

Delta R.T. 0.00 min

Lab File: VF060444.D

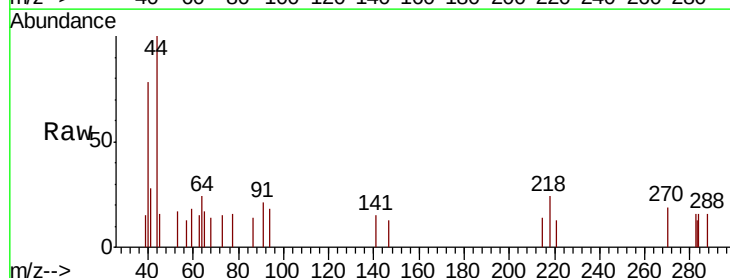
Acq: 4 Oct 2018 19:06

Tgt Ion: 64 Resp: 207

Ion Ratio Lower Upper

64 100

66 0.0 26.3 39.5#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

200

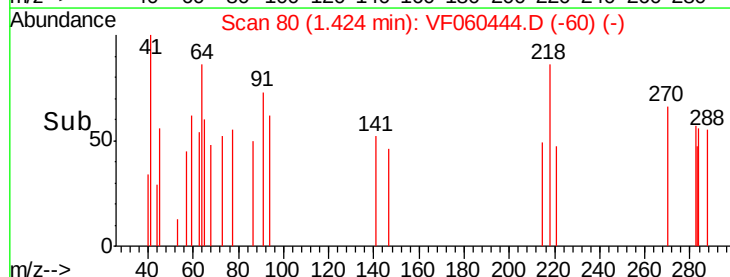
150

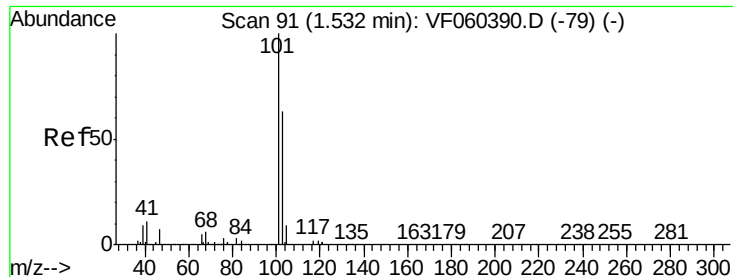
100

50

0

Time-->





#7

Trichlorofluoromethane

Concen: 23.062 ug/l

RT: 1.54 min Scan# 92

Delta R.T. 0.01 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

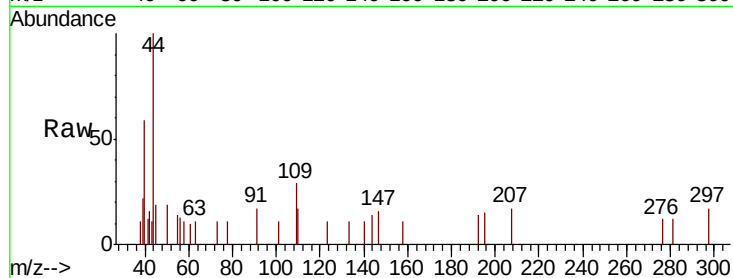
CG-SOIL-1

Tot Ion:101 Resp: 65

Ion Ratio Lower Upper

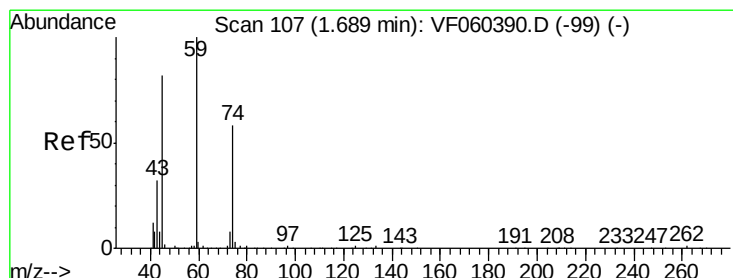
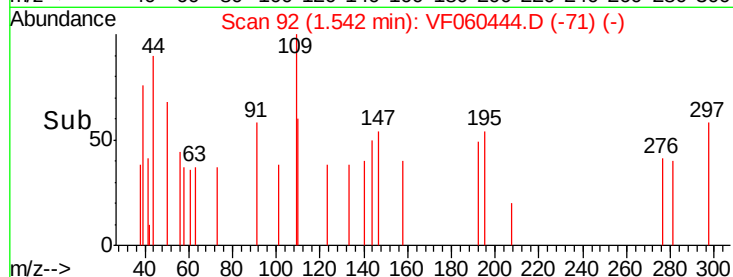
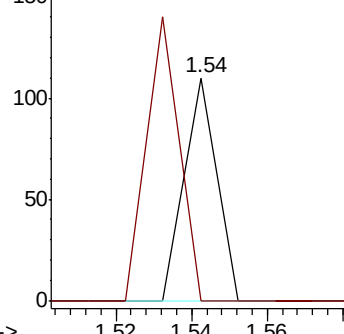
101 100

103 0.0 51.0 76.4#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 579.910 ug/l

RT: 1.58 min Scan# 96

Delta R.T. -0.11 min

Lab File: VF060444.D

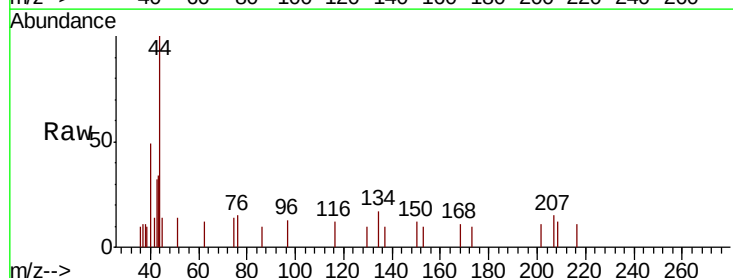
Acq: 4 Oct 2018 19:06

Tgt Ion: 74 Resp: 224

Ion Ratio Lower Upper

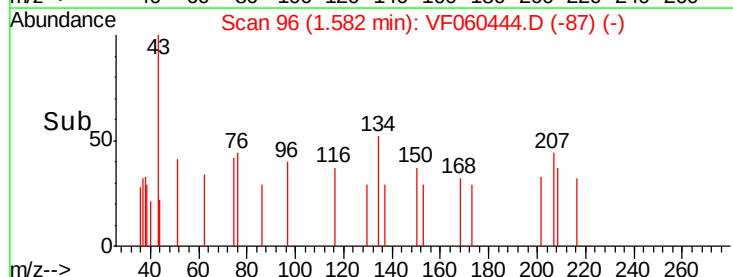
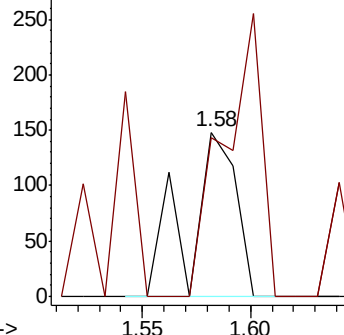
74 100

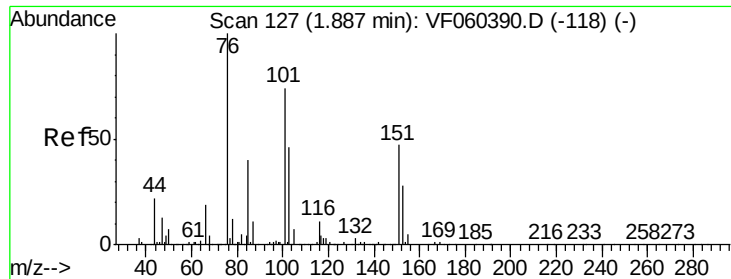
45 96.6 71.3 213.8



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: 58.515 ug/l

RT: 1.90 min Scan# 128

Delta R.T. 0.01 min

Lab File: VF060444.D

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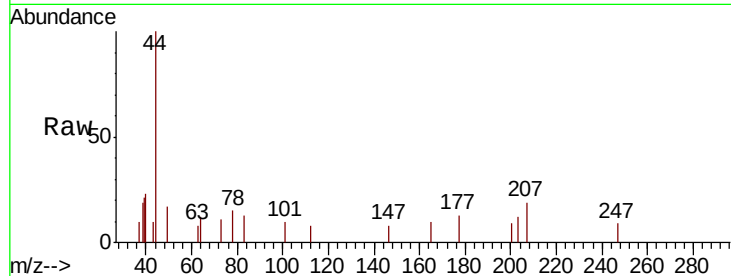
Tot Ion:101 Resp: 79

Ion Ratio Lower Upper

101 100

85 0.0 42.5 63.7#

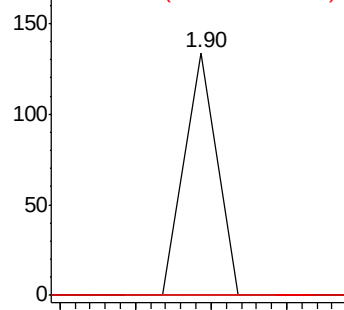
151 0.0 49.8 74.8#



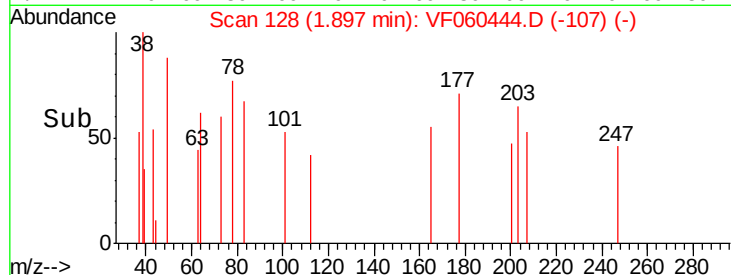
Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



Time--> 1.86 1.88 1.90 1.92



#10

Methyl Iodide

Concen: 89.369 ug/l

RT: 2.04 min Scan# 142

Delta R.T. 0.08 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

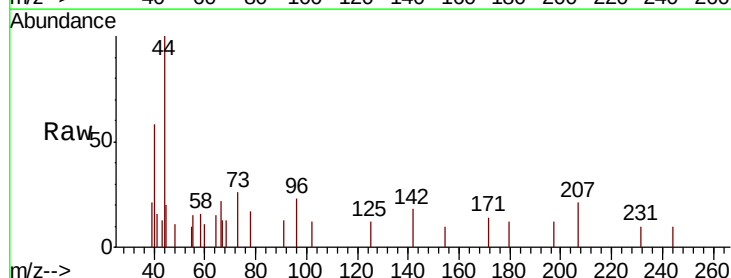
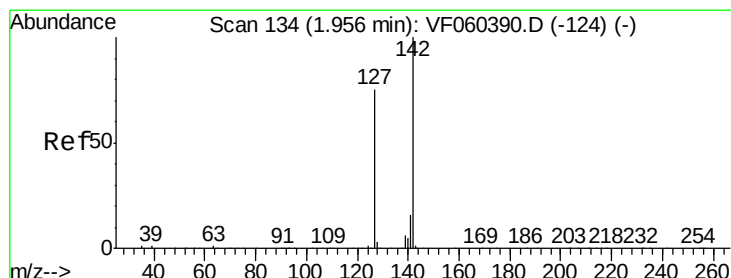
Tgt Ion:142 Resp: 184

Ion Ratio Lower Upper

142 100

127 0.0 60.2 90.2#

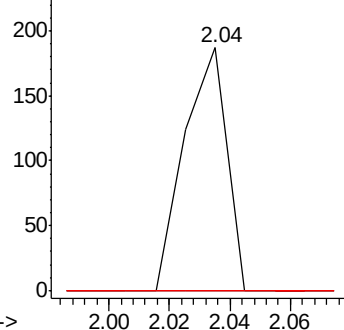
141 100.0 13.1 19.7#



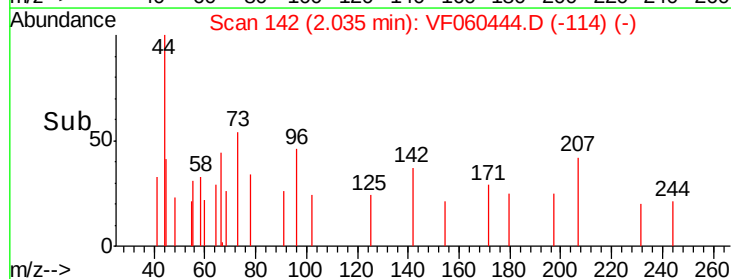
Abundance Ion 142.00 (141.70 to 142.70): V

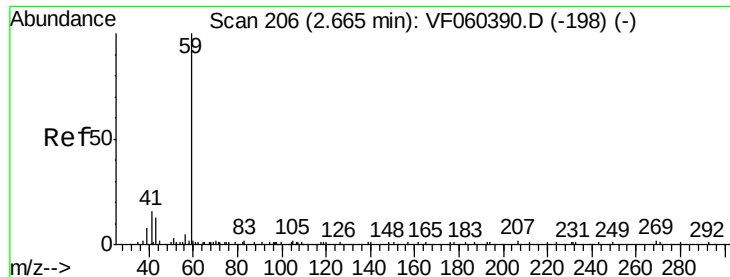
Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



Time--> 2.00 2.02 2.04 2.06



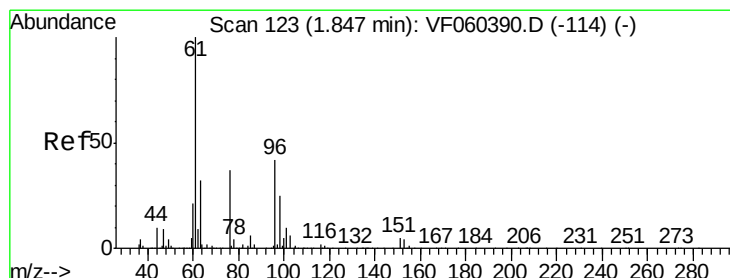
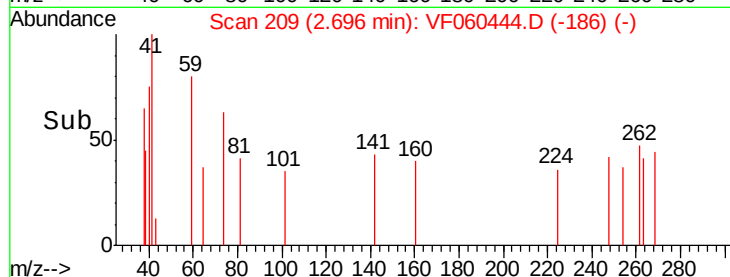
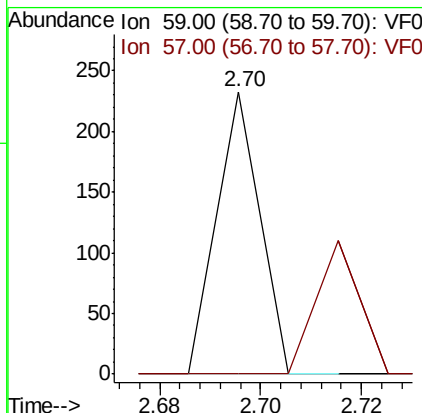
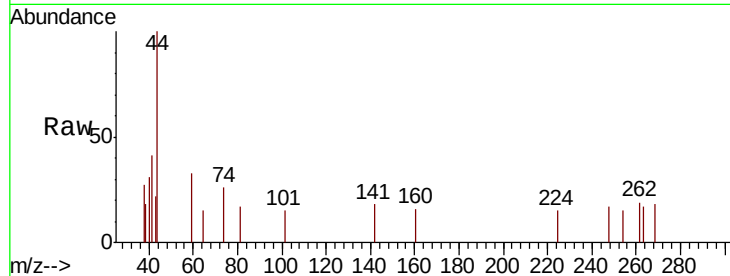


#11

Tert butyl alcohol
 Concen: 1695.379 ug/l
 RT: 2.70 min Scan# 209
 Delta R.T. 0.03 min
 Lab File: VF060444.D
 Acq: 4 Oct 2018 19:06

Instrument :
 MSVOA_F
 ClientSampled :
 CG-SOIL-1

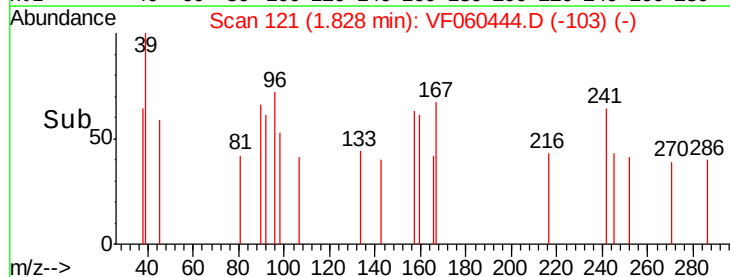
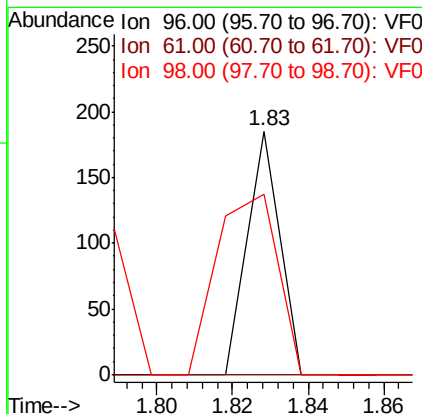
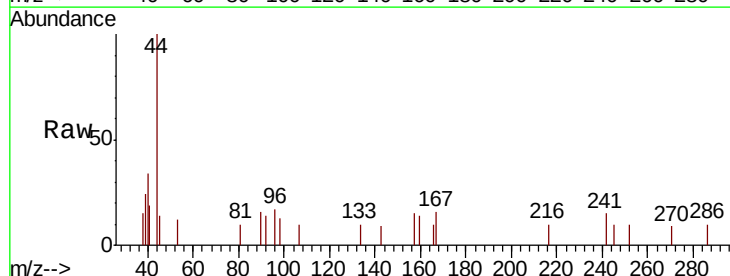
Tot Ion: 59 Resp: 138
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.5 9.7#

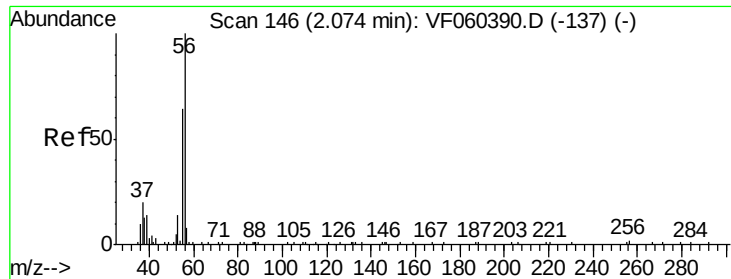


#12

1,1-Dichloroethene
 Concen: 104.490 ug/l
 RT: 1.83 min Scan# 121
 Delta R.T. -0.02 min
 Lab File: VF060444.D
 Acq: 4 Oct 2018 19:06

Tgt Ion: 96 Resp: 109
 Ion Ratio Lower Upper
 96 100
 61 0.0 189.4 284.0#
 98 74.1 47.8 71.6#

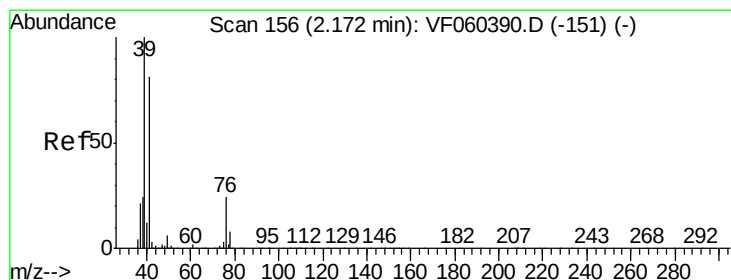
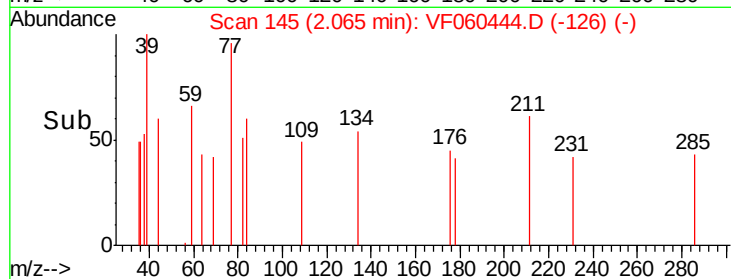
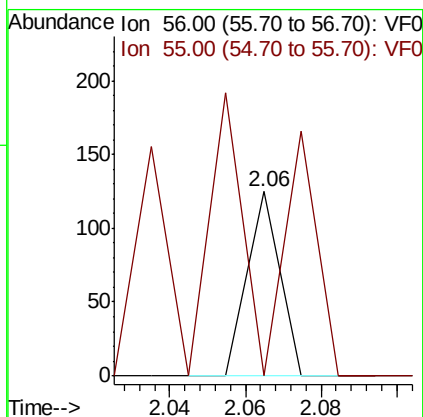
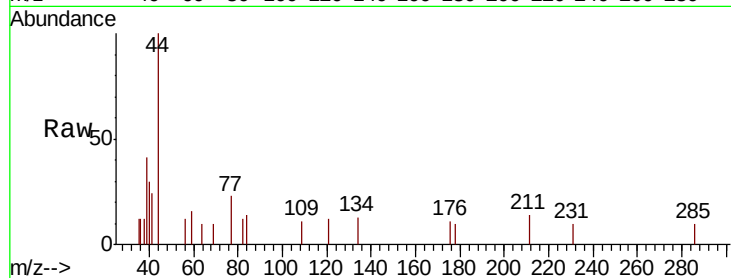




#13
Acrolein
Concen: 1130.448 ug/l
RT: 2.06 min Scan# 145
Delta R.T. -0.01 min
Lab File: VF060444.D
Acq: 4 Oct 2018 19:06

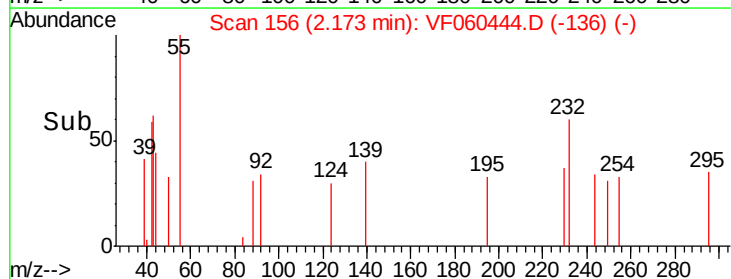
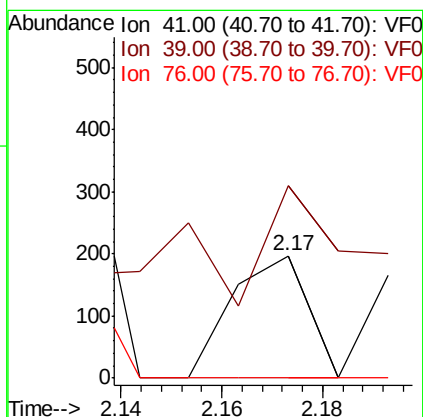
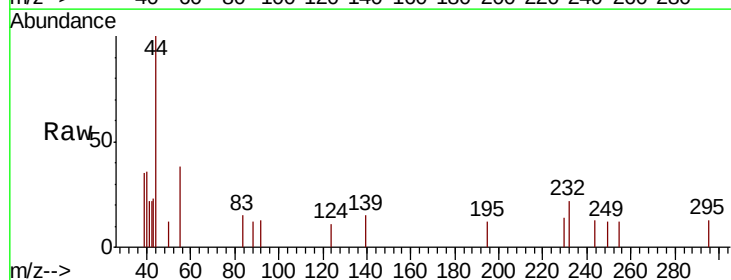
Instrument :
MSVOA_F
ClientSampled :
CG-SOIL-1

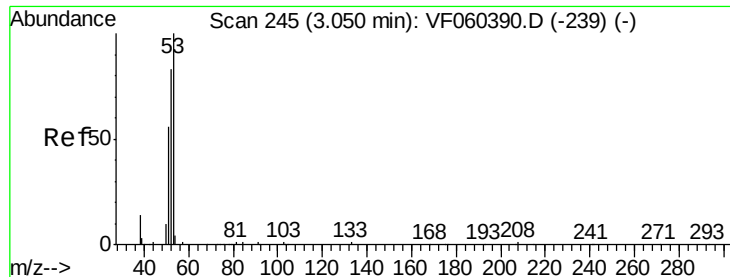
Tot Ion: 56 Resp: 74
Ion Ratio Lower Upper
56 100
55 0.0 53.9 80.9#



#14
Allyl chloride
Concen: 123.242 ug/l
RT: 2.17 min Scan# 156
Delta R.T. 0.00 min
Lab File: VF060444.D
Acq: 4 Oct 2018 19:06

Tgt Ion: 41 Resp: 206
Ion Ratio Lower Upper
41 100
39 157.4 98.3 147.5#
76 0.0 23.9 35.9#





#15

Acrylonitrile

Concen: 458.865 ug/l

RT: 3.08 min Scan# 248

Delta R.T. 0.03 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleID :

CG-SOIL-1

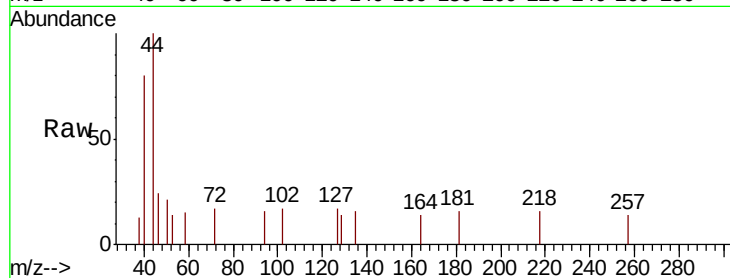
Tot Ion: 53 Resp: 64

Ion Ratio Lower Upper

53 100

52 0.0 66.0 99.0#

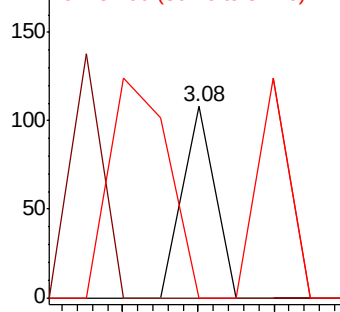
51 0.0 45.6 68.4#



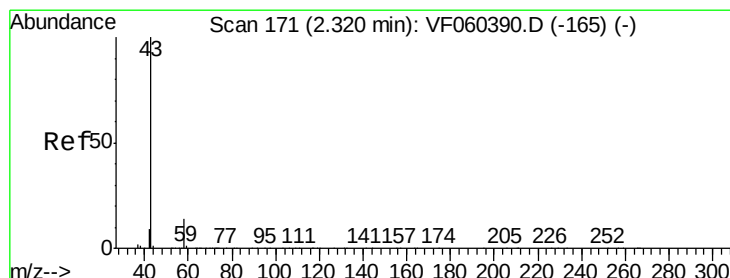
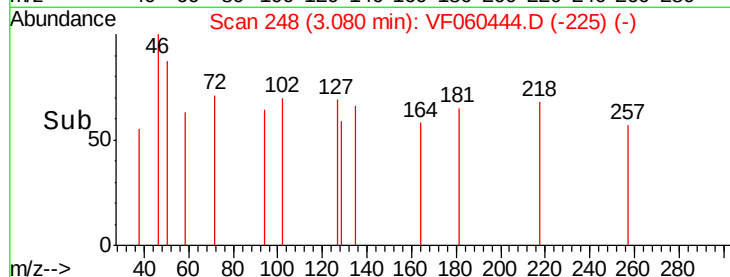
Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



Time-->



#16

Acetone

Concen: 1141.581 ug/l

RT: 2.34 min Scan# 173

Delta R.T. 0.02 min

Lab File: VF060444.D

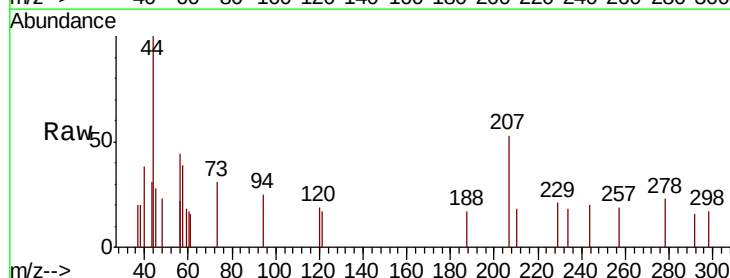
Acq: 4 Oct 2018 19:06

Tgt Ion: 43 Resp: 293

Ion Ratio Lower Upper

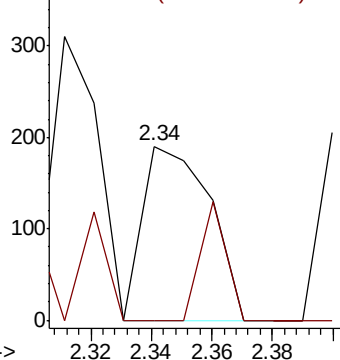
43 100

58 0.0 11.2 16.8#

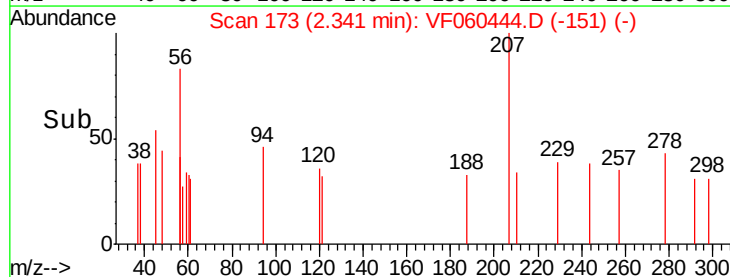


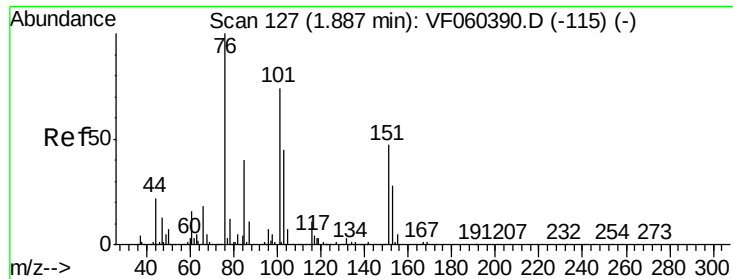
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->

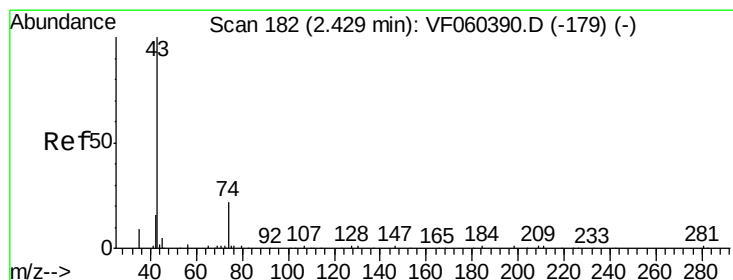
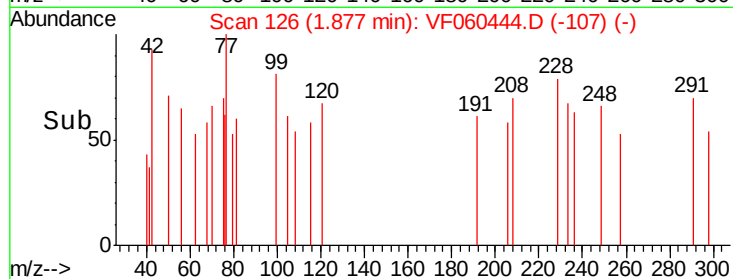
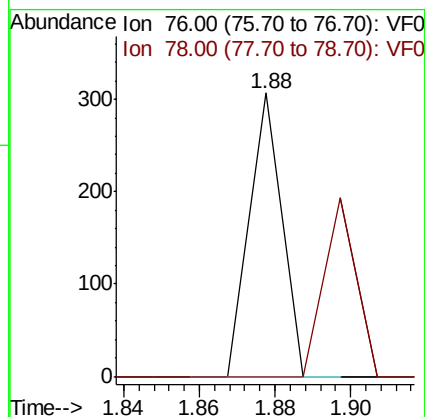
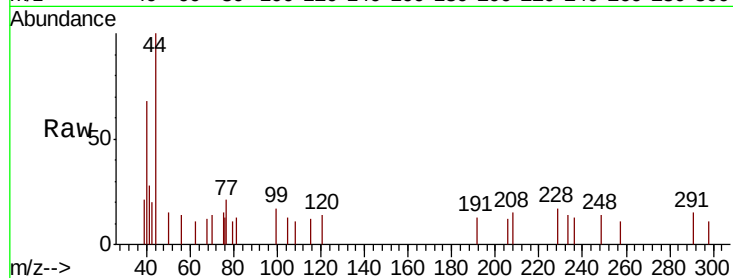




#17
Carbon Disulfide
Concen: 57.617 ug/l
RT: 1.88 min Scan# 126
Delta R.T. -0.01 min
Lab File: VF060444.D
Acq: 4 Oct 2018 19:06

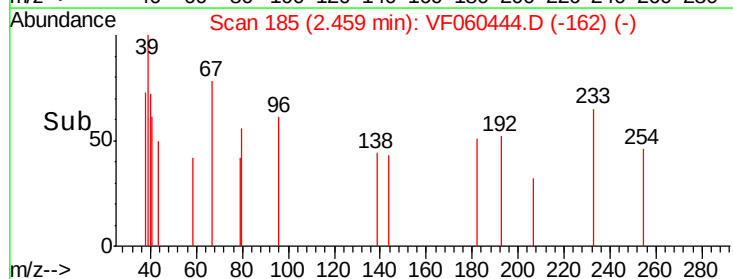
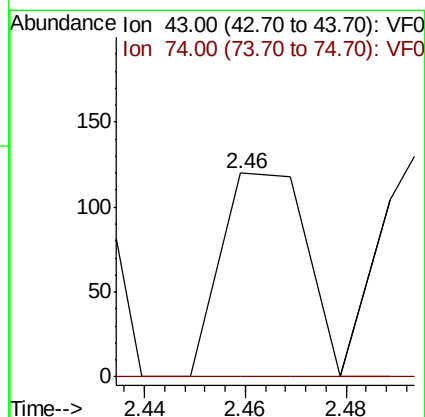
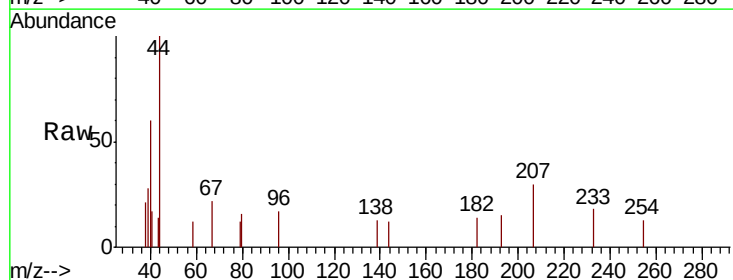
Instrument :
MSVOA_F
ClientSampleId :
CG-SOIL-1

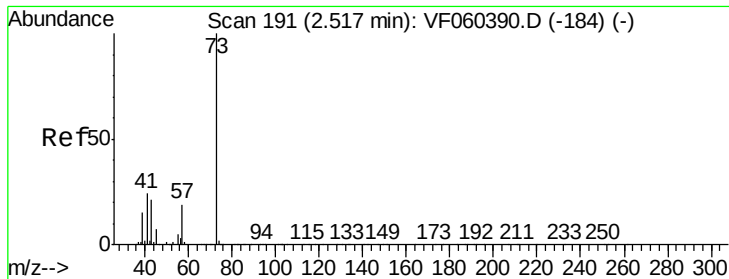
Tot Ion: 76 Resp: 182
Ion Ratio Lower Upper
76 100
78 0.0 10.1 15.1#



#18
Methyl Acetate
Concen: 287.223 ug/l
RT: 2.46 min Scan# 185
Delta R.T. 0.03 min
Lab File: VF060444.D
Acq: 4 Oct 2018 19:06

Tgt Ion: 43 Resp: 141
Ion Ratio Lower Upper
43 100
74 0.0 15.8 23.8#





#19

Methyl tert-butyl Ether

Concen: 31.486 ug/l

RT: 2.54 min Scan# 193

Delta R.T. 0.02 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

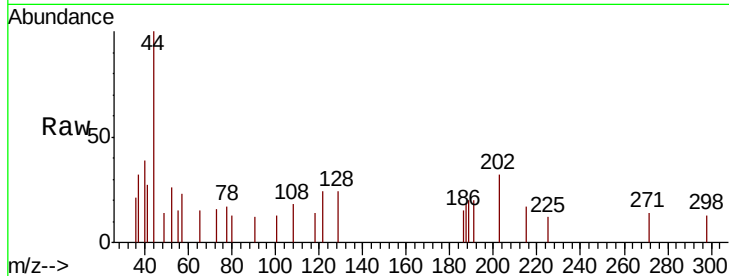
CG-SOIL-1

Tot Ion: 73 Resp: 80

Ion Ratio Lower Upper

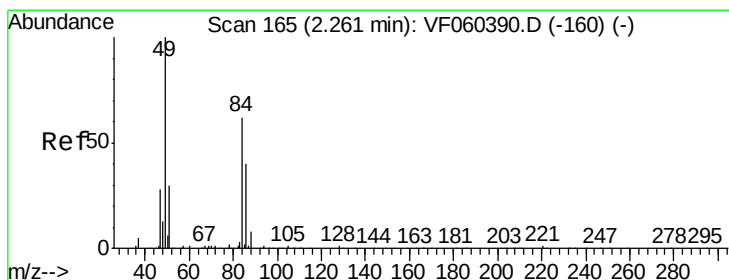
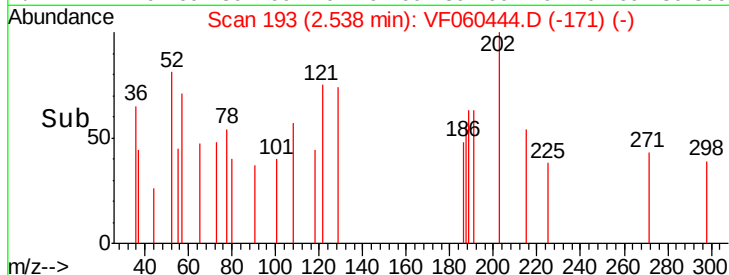
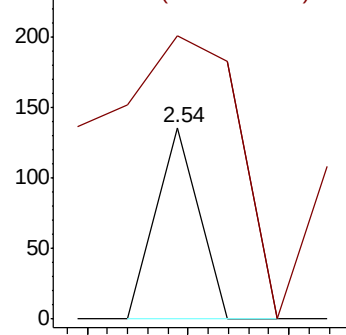
73 100

57 147.8 15.9 23.9#



Abundance Ion 73.00 (72.70 to 73.70): VF0

Ion 57.00 (56.70 to 57.70): VF0



#20

Methylene Chloride

Concen: 72.790 ug/l

RT: 2.27 min Scan# 166

Delta R.T. 0.01 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Tgt Ion: 84 Resp: 69

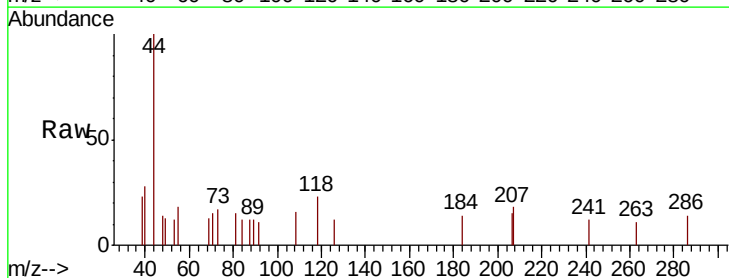
Ion Ratio Lower Upper

84 100

49 101.7 130.2 195.2#

51 0.0 41.0 61.6#

86 0.0 51.5 77.3#

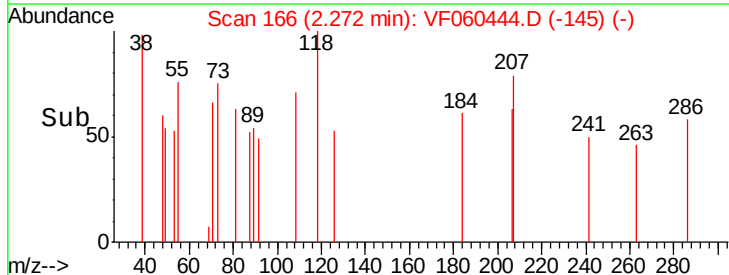
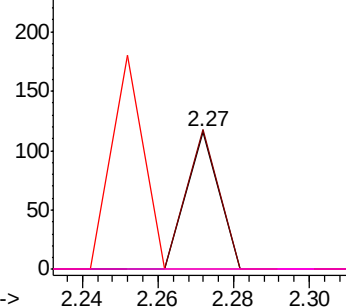


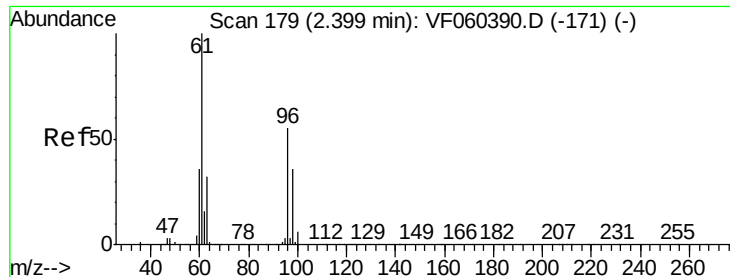
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#21

trans-1,2-Dichloroethene

Concen: 87.345 ug/l

RT: 2.42 min Scan# 181

Delta R.T. 0.02 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

CG-SOIL-1

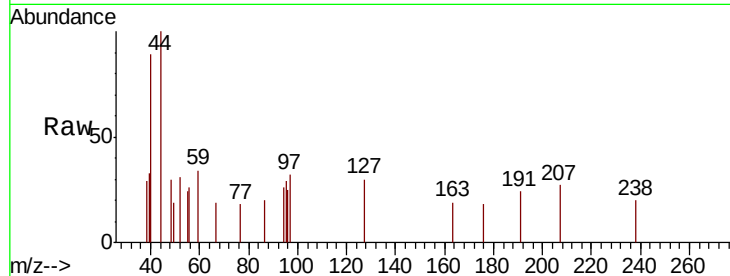
Tot Ion: 96 Resp: 91

Ion Ratio Lower Upper

96 100

61 0.0 146.2 219.2#

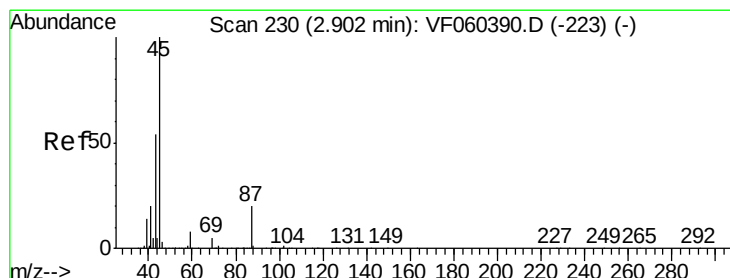
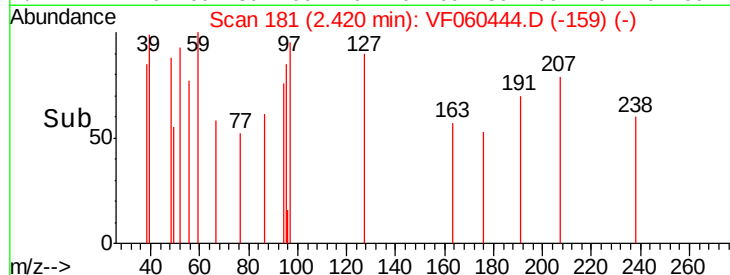
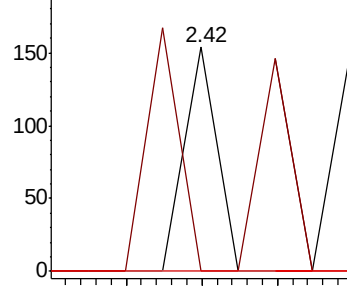
98 0.0 52.6 78.8#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 99.539 ug/l

RT: 2.92 min Scan# 232

Delta R.T. 0.02 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Tgt Ion: 45 Resp: 302

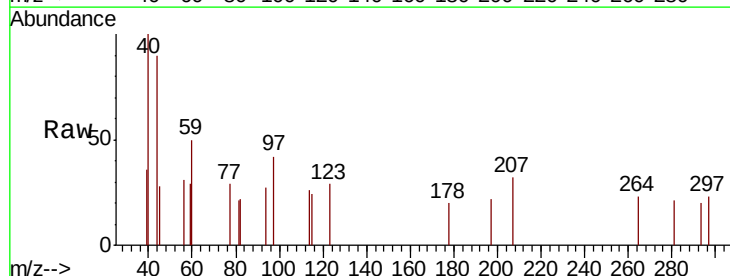
Ion Ratio Lower Upper

45 100

43 0.0 43.8 65.8#

87 0.0 16.3 24.5#

59 289.5 6.6 10.0#

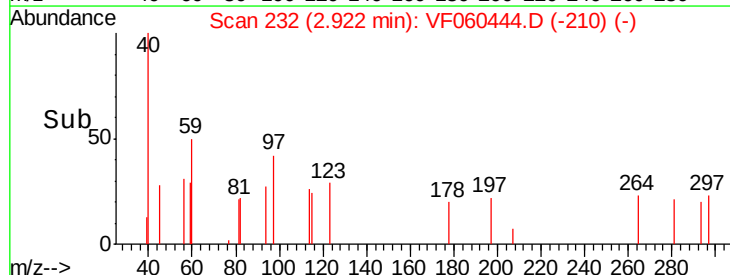
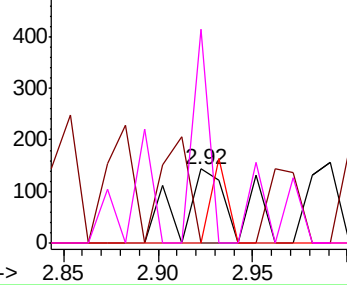


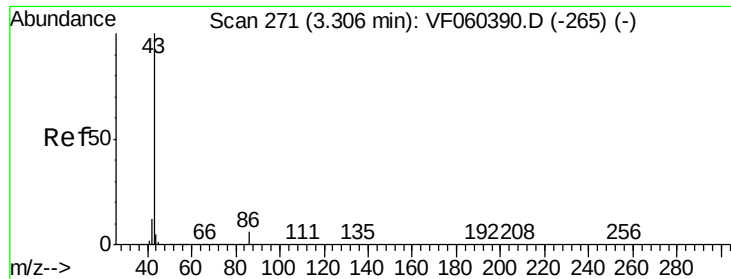
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 236.474 ug/l

RT: 3.33 min Scan# 273

Delta R.T. 0.02 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampled :

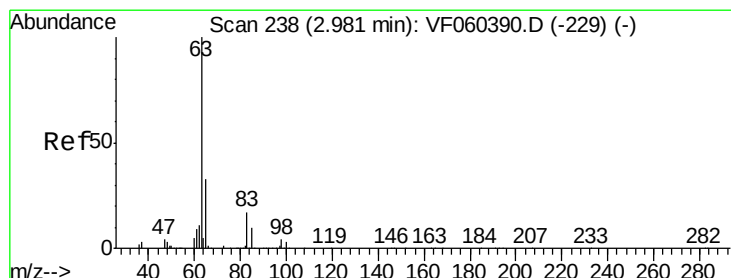
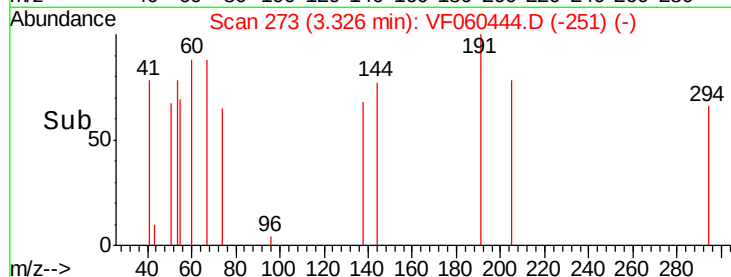
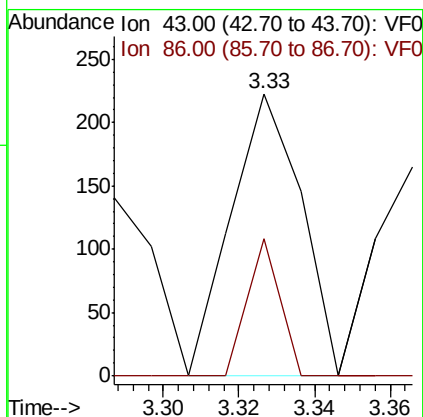
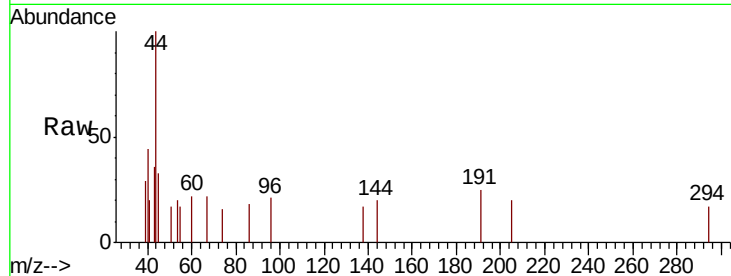
CG-SOIL-1

Tot Ion: 43 Resp: 285

Ion Ratio Lower Upper

43 100

86 48.4 5.1 7.7#



#24

1,1-Dichloroethane

Concen: 49.714 ug/l

RT: 3.07 min Scan# 247

Delta R.T. 0.09 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

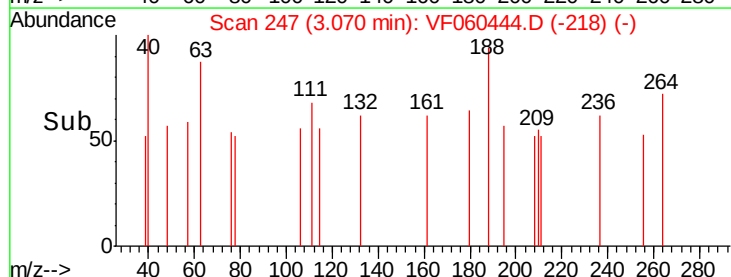
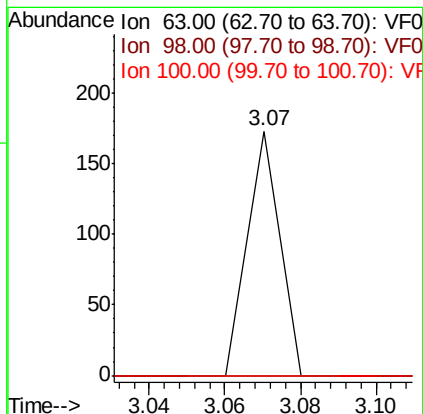
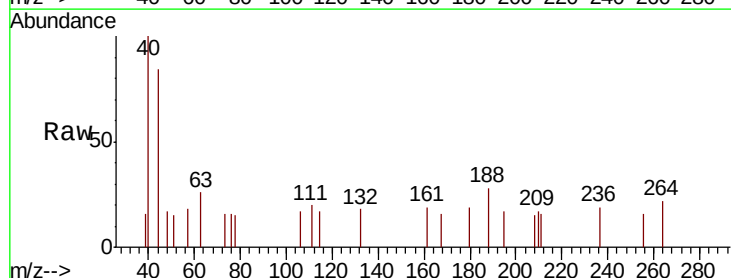
Tgt Ion: 63 Resp: 102

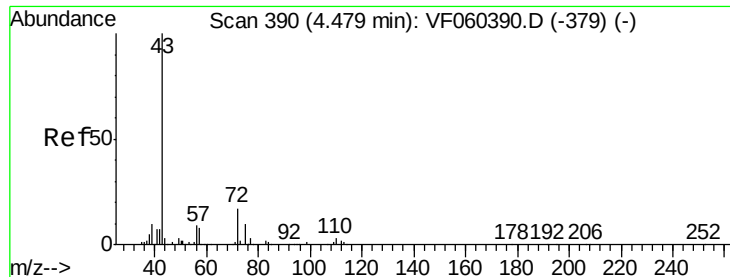
Ion Ratio Lower Upper

63 100

98 0.0 2.0 5.8#

100 0.0 1.4 4.2#





#25

2-Butanone

Concen: 803.567 ug/l

RT: 4.52 min Scan# 394

Delta R.T. 0.04 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

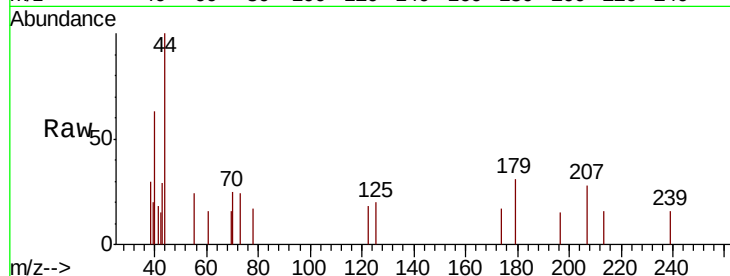
CG-SOIL-1

Tot Ion: 43 Resp: 280

Ion Ratio Lower Upper

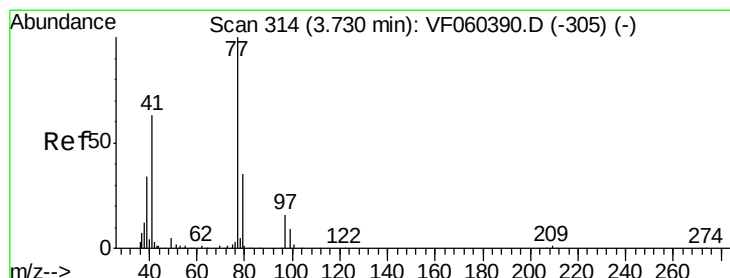
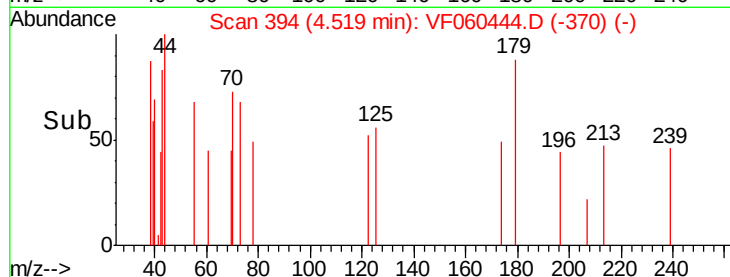
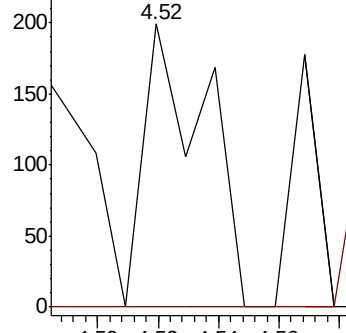
43 100

72 0.0 14.1 21.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 95.522 ug/l

RT: 3.75 min Scan# 316

Delta R.T. 0.02 min

Lab File: VF060444.D

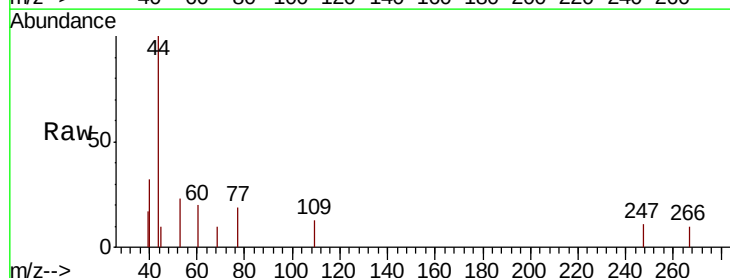
Acq: 4 Oct 2018 19:06

Tgt Ion: 77 Resp: 111

Ion Ratio Lower Upper

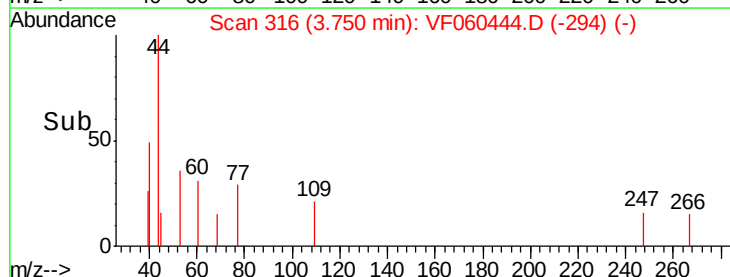
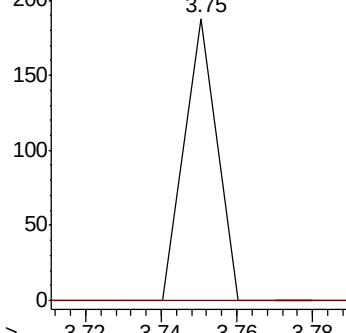
77 100

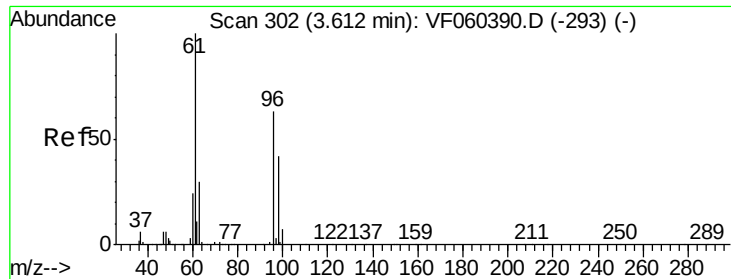
97 0.0 8.3 25.1#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



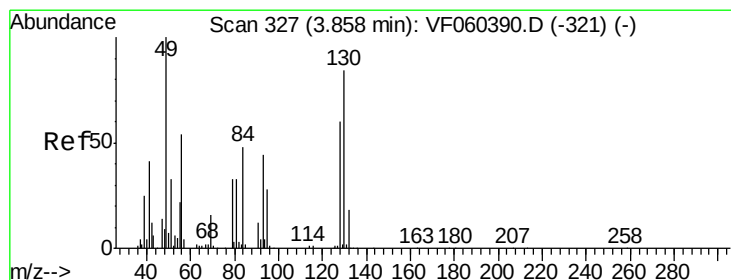
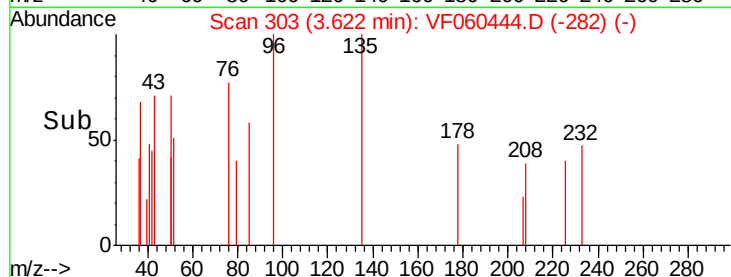
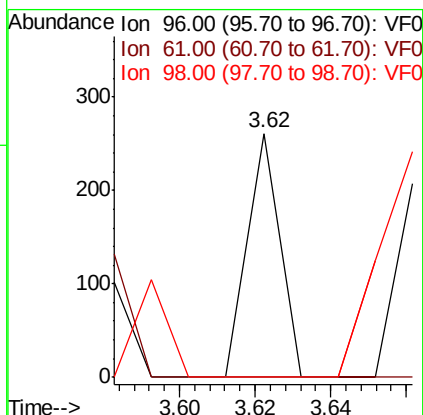
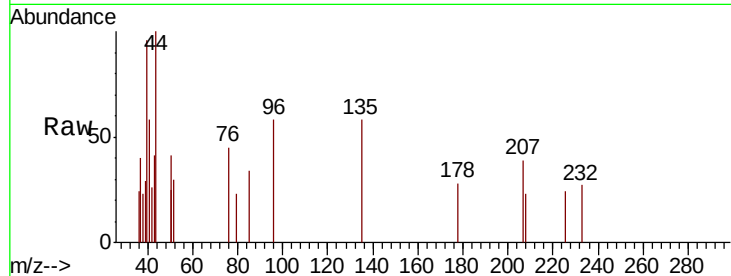


#27

cis-1,2-Dichloroethene
Concen: 132.205 ug/l
RT: 3.62 min Scan# 303
Delta R.T. 0.01 min
Lab File: VF060444.D
Acq: 4 Oct 2018 19:06

Instrument :
MSVOA_F
ClientSampleId :
CG-SOIL-1

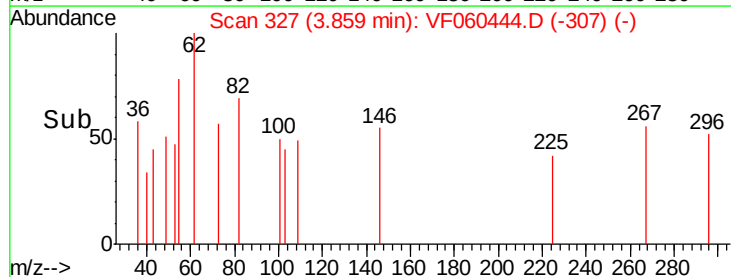
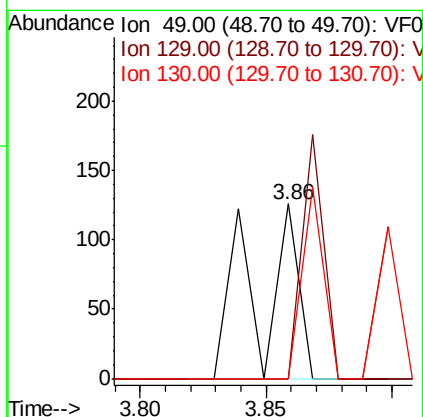
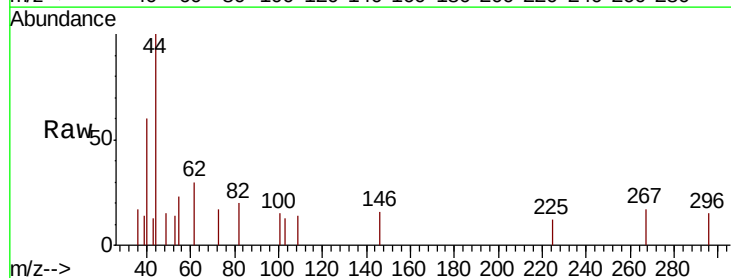
Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	318.2
98	0.0	0.0	134.0

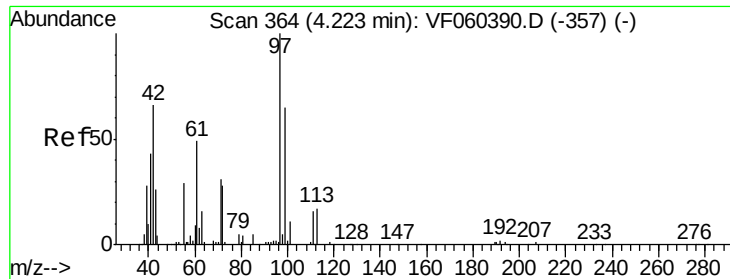


#28

Bromochloromethane
Concen: 194.403 ug/l
RT: 3.86 min Scan# 327
Delta R.T. 0.00 min
Lab File: VF060444.D
Acq: 4 Oct 2018 19:06

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	0.0	67.3	100.9#





#29

Tetrahydrofuran

Concen: 484.258 ug/l

RT: 4.24 min Scan# 366

Delta R.T. 0.02 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

CG-SOIL-1

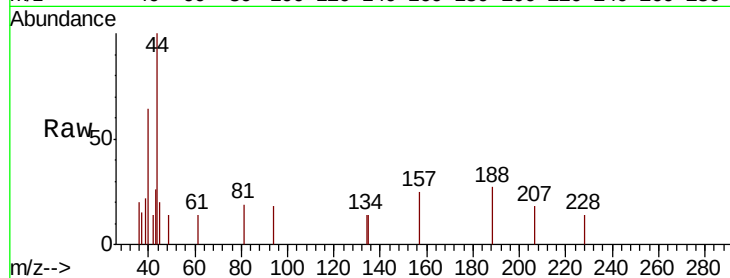
Tot Ion: 42 Resp: 63

Ion Ratio Lower Upper

42 100

72 0.0 33.6 50.4#

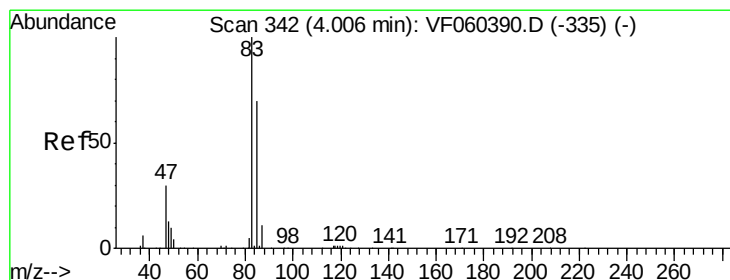
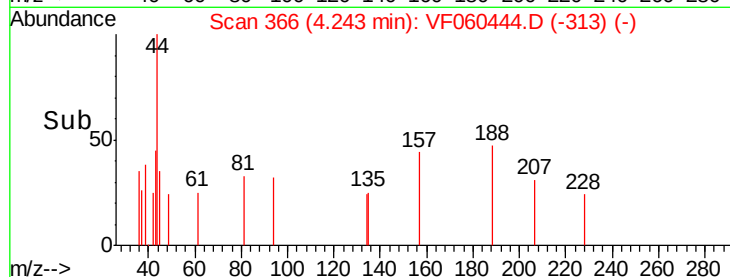
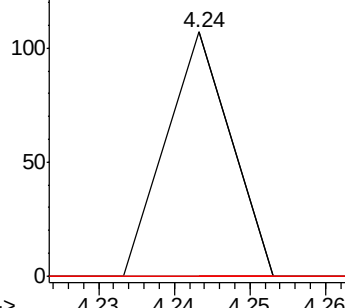
71 0.0 32.7 49.1#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 28.835 ug/l

RT: 4.05 min Scan# 346

Delta R.T. 0.04 min

Lab File: VF060444.D

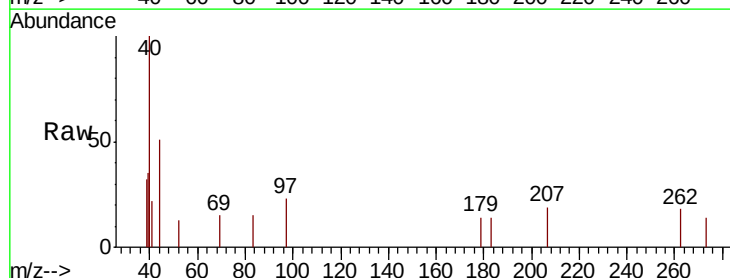
Acq: 4 Oct 2018 19:06

Tgt Ion: 83 Resp: 73

Ion Ratio Lower Upper

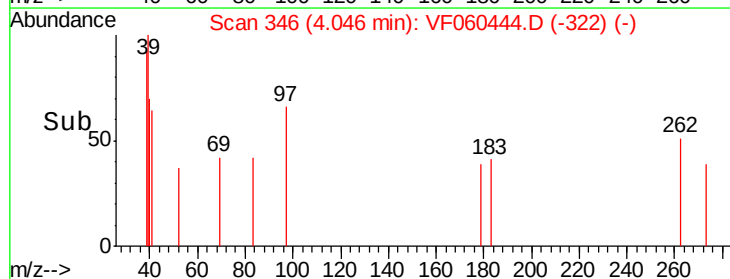
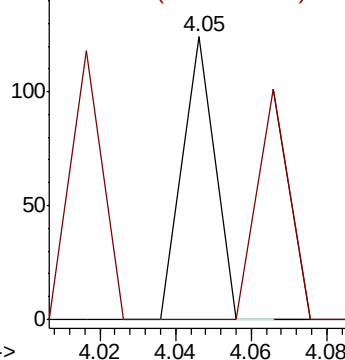
83 100

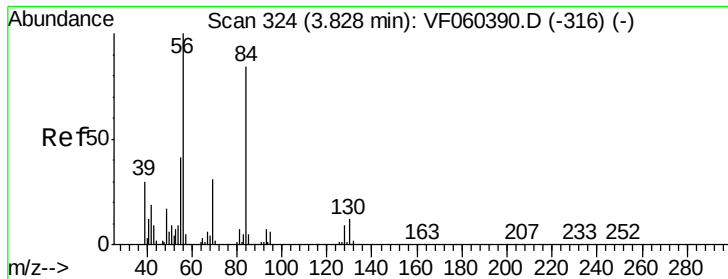
85 0.0 55.9 83.9#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0





#31

Cvclohexane

Concen: 110.638 ug/l

RT: 3.89 min Scan# 330

Delta R.T. 0.06 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampled :

CG-SOIL-1

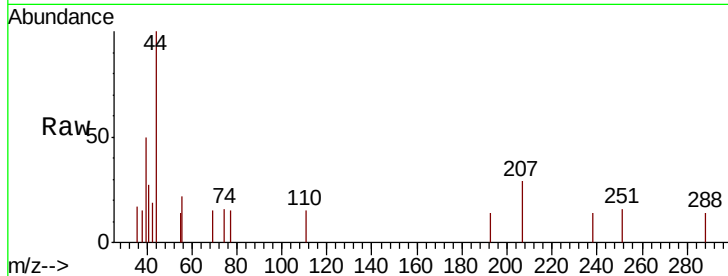
Tot Ion: 56 Resp: 163

Ion Ratio Lower Upper

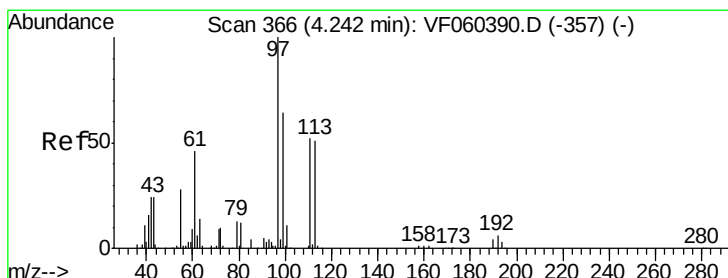
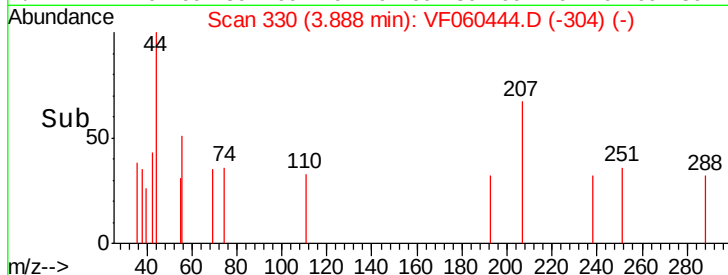
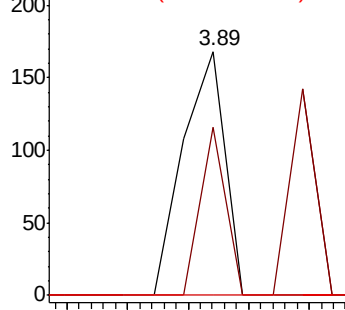
56 100

69 69.0 25.5 38.3#

84 0.0 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VF0
Ion 69.00 (68.70 to 69.70): VF0
Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 33.227 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.10 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

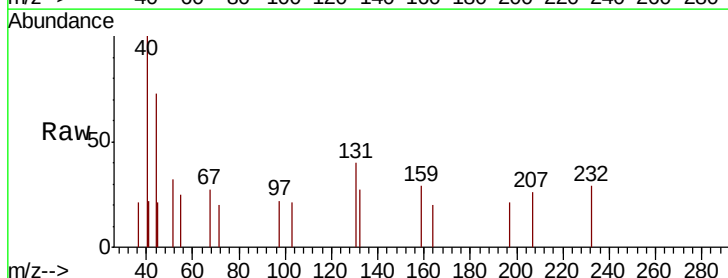
Tgt Ion: 97 Resp: 70

Ion Ratio Lower Upper

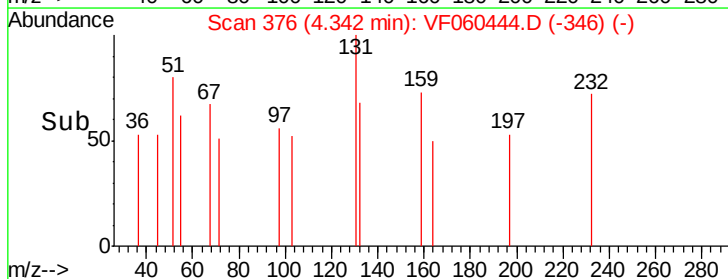
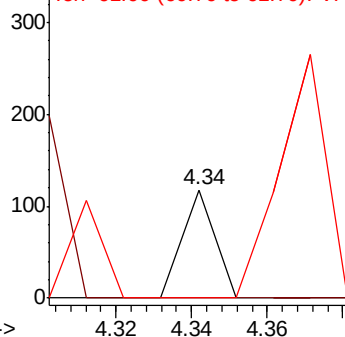
97 100

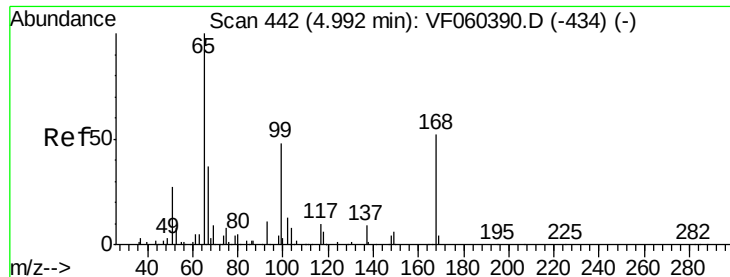
99 0.0 51.0 76.4#

61 0.0 37.5 56.3#



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: 129.301 ug/l

RT: 5.03 min Scan# 446

Delta R.T. 0.04 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

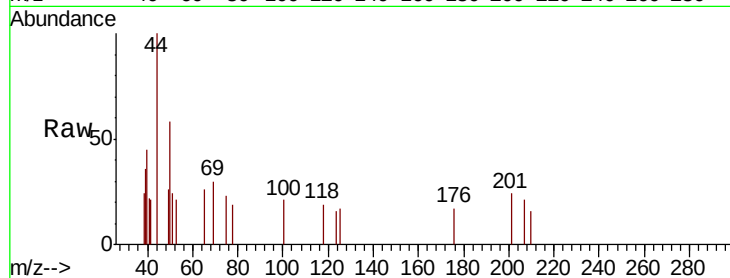
CG-SOIL-1

Tot Ion: 65 Resp: 174

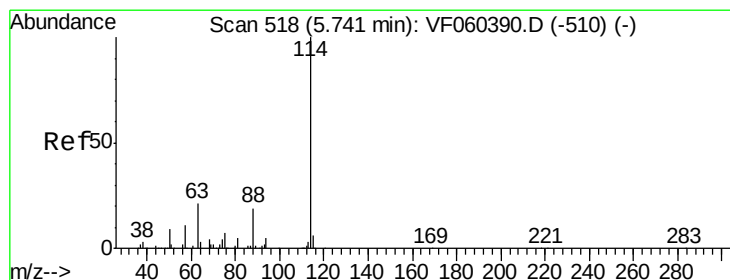
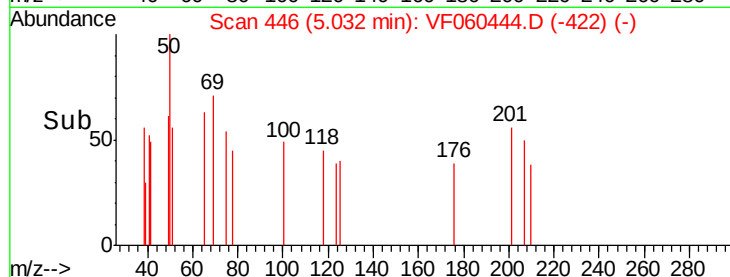
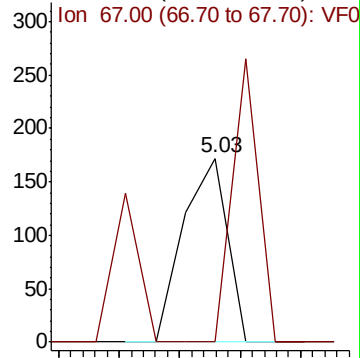
Ion Ratio Lower Upper

65 100

67 0.0 0.0 89.4



Abundance Ion 65.00 (64.70 to 65.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.03 min Scan# 547

Delta R.T. 0.29 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

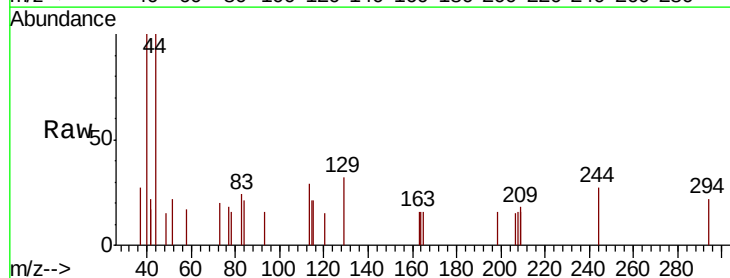
Tgt Ion: 114 Resp: 80

Ion Ratio Lower Upper

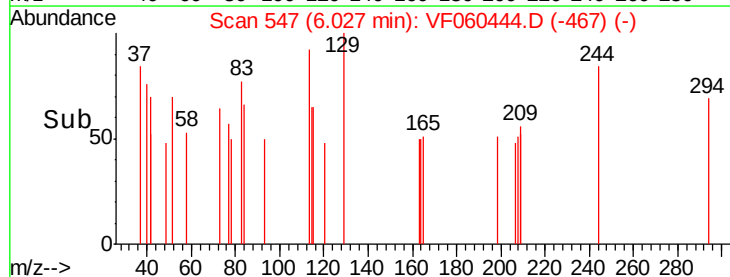
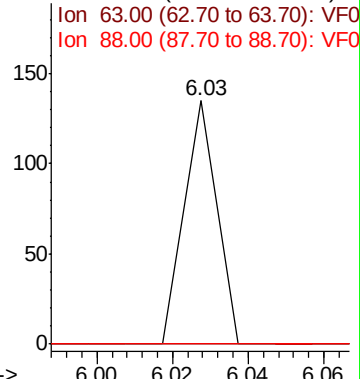
114 100

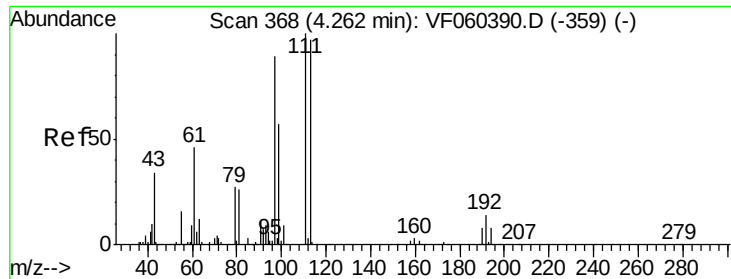
63 0.0 0.0 42.2

88 0.0 0.0 38.8



Abundance Ion 114.00 (113.70 to 114.70): V

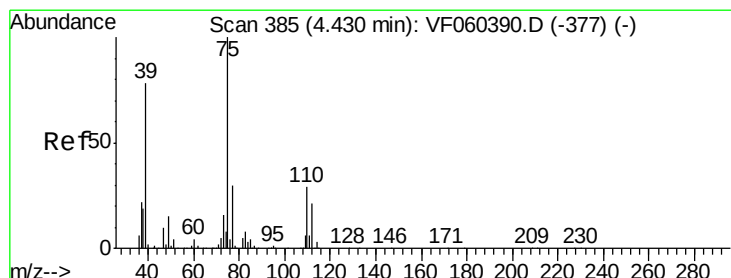
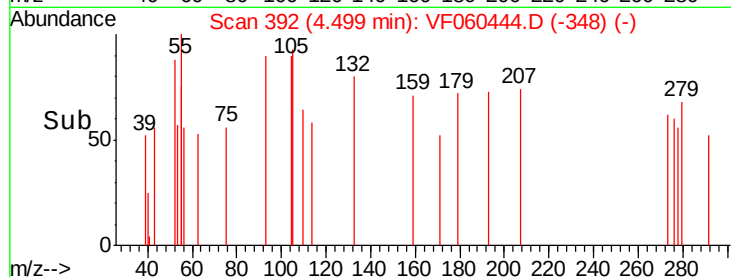
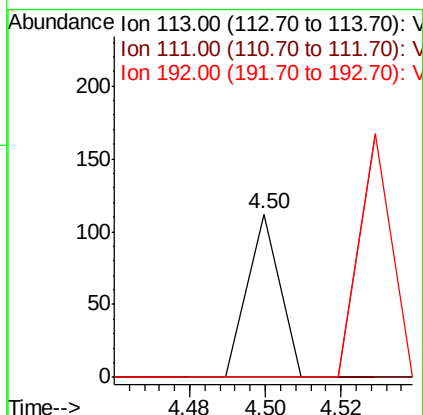
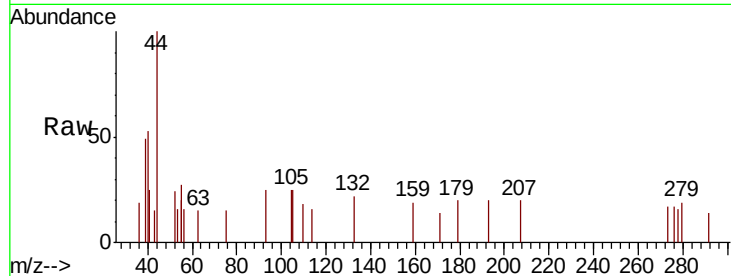




#35
 Dibromofluoromethane
 Concen: 87.819 ug/l
 RT: 4.50 min Scan# 392
 Delta R.T. 0.24 min
 Lab File: VF060444.D
 Acq: 4 Oct 2018 19:06

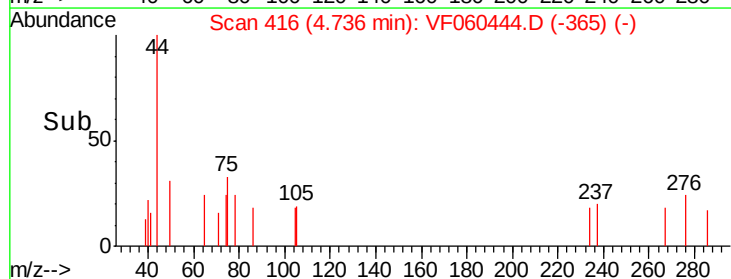
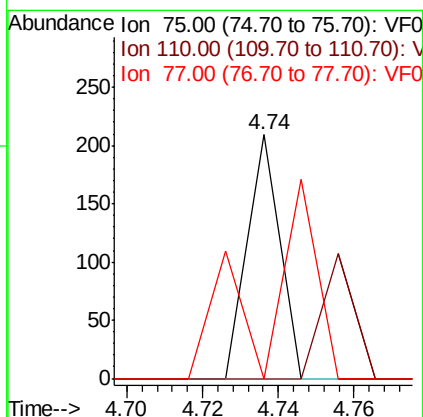
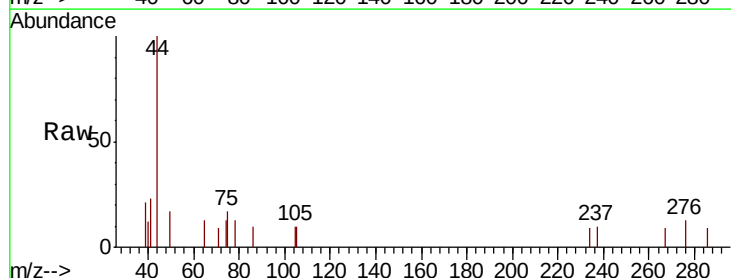
Instrument :
 MSVOA_F
 ClientSampled :
 CG-SOIL-1

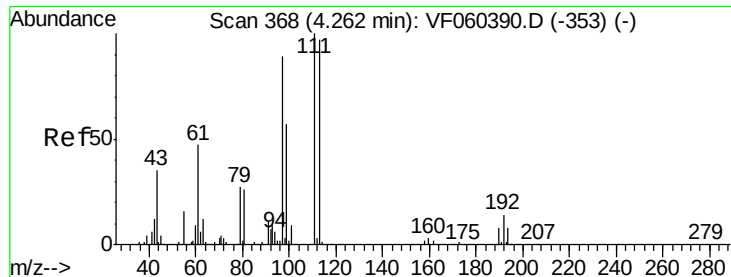
Tot Ion:113 Resp: 66
 Ion Ratio Lower Upper
 113 100
 111 0.0 82.3 123.5#
 192 0.0 11.8 17.6#



#36
 1,1-Dichloropropene
 Concen: 125.718 ug/l
 RT: 4.74 min Scan# 416
 Delta R.T. 0.31 min
 Lab File: VF060444.D
 Acq: 4 Oct 2018 19:06

Tgt Ion: 75 Resp: 124
 Ion Ratio Lower Upper
 75 100
 110 0.0 14.5 43.6#
 77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 855.158 ug/l

RT: 4.48 min Scan# 390

Delta R.T. 0.22 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

CG-SOIL-1

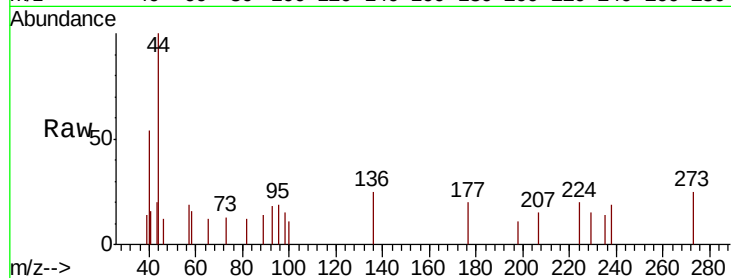
Tot Ion: 43 Resp: 323

Ion Ratio Lower Upper

43 100

61 0.0 105.1 157.7#

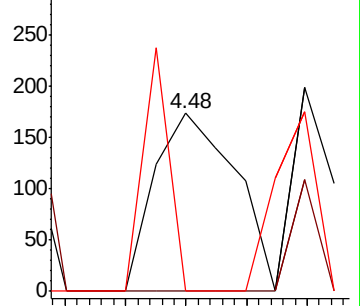
70 0.0 8.0 12.0#



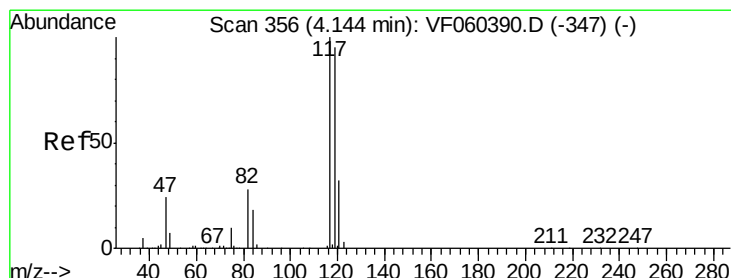
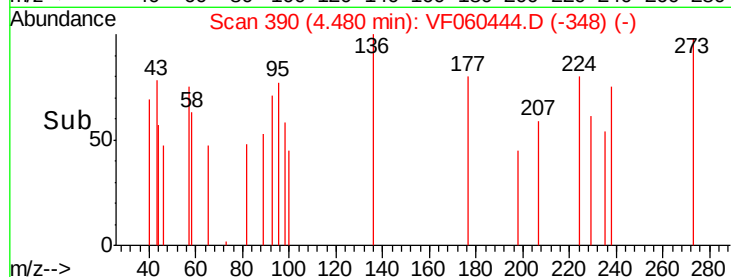
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0



Time-->



#38

Carbon Tetrachloride

Concen: 103.281 ug/l

RT: 4.31 min Scan# 373

Delta R.T. 0.17 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

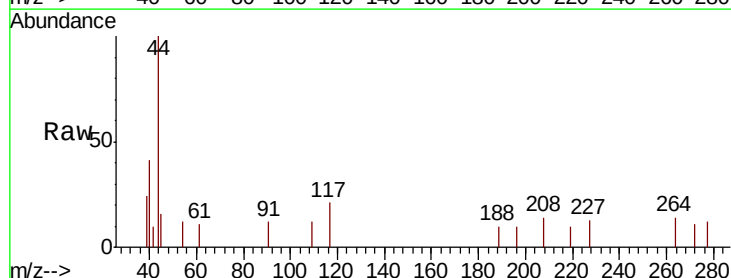
Tgt Ion:117 Resp: 124

Ion Ratio Lower Upper

117 100

119 0.0 75.5 113.3#

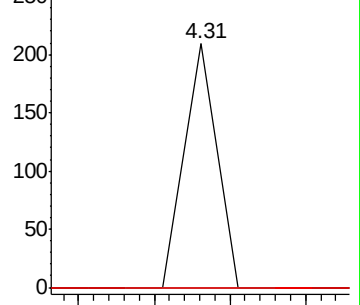
121 0.0 25.4 38.0#



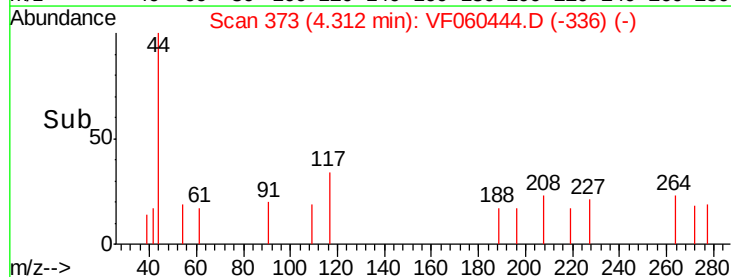
Abundance Ion 117.00 (116.70 to 117.70): V

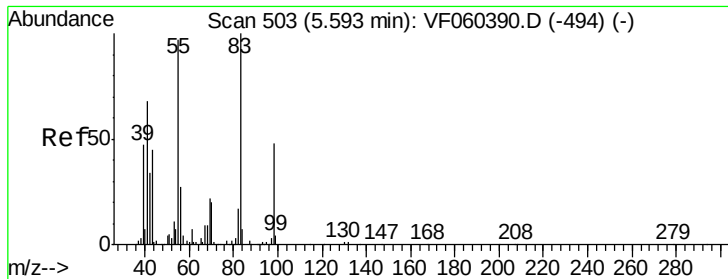
Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



Time-->

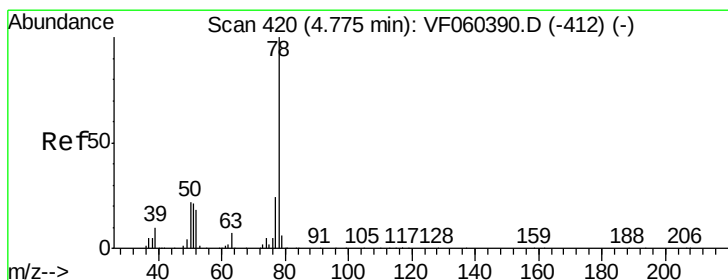
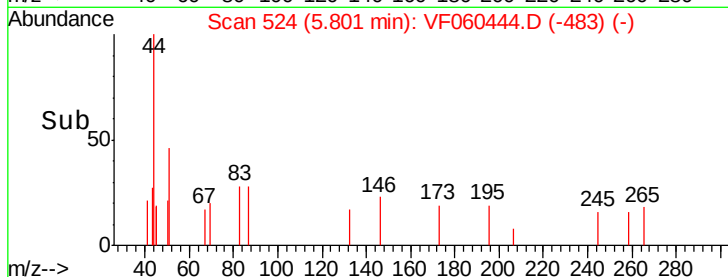
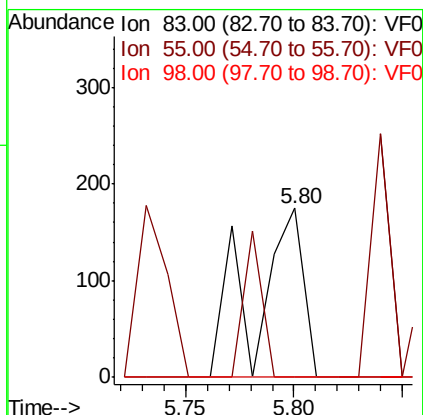
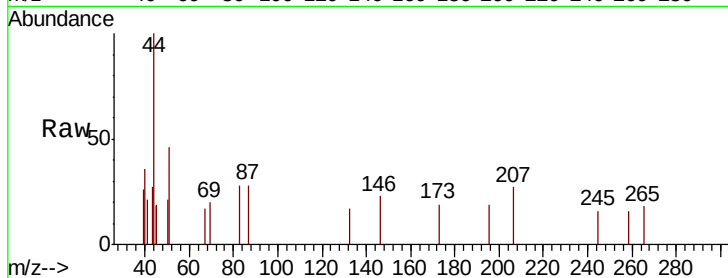




#39
Methylvlcyclohexane
Concen: 280.262 ug/l
RT: 5.80 min Scan# 524
Delta R.T. 0.21 min
Lab File: VF060444.D
Acq: 4 Oct 2018 19:06

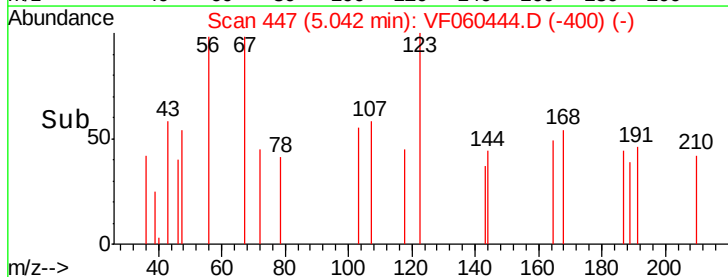
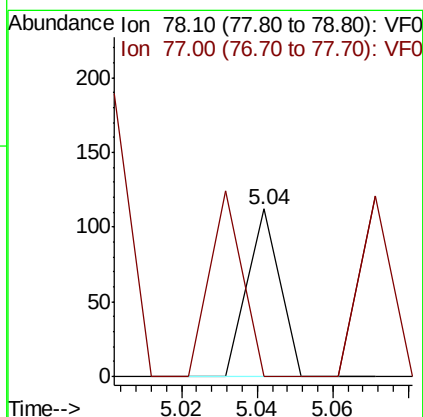
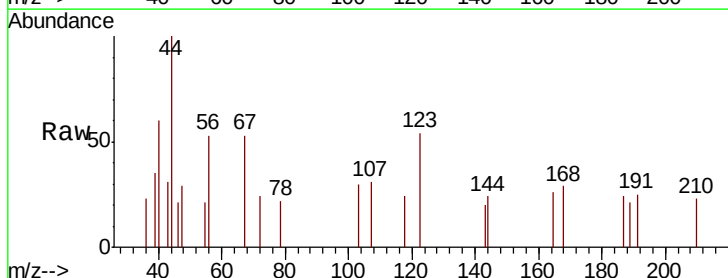
Instrument :
MSVOA_F
ClientSampleId :
CG-SOIL-1

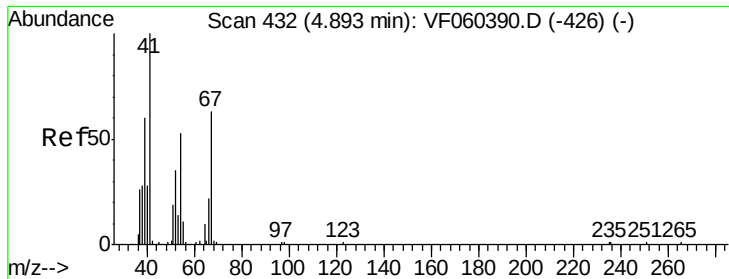
Tot Ion: 83 Resp: 271
Ion Ratio Lower Upper
83 100
55 0.0 77.5 116.3#
98 0.0 38.7 58.1#



#40
Benzene
Concen: 33.707 ug/l
RT: 5.04 min Scan# 447
Delta R.T. 0.27 min
Lab File: VF060444.D
Acq: 4 Oct 2018 19:06

Tgt Ion: 78 Resp: 66
Ion Ratio Lower Upper
78 100
77 0.0 19.2 28.8#





#41

Methacrylonitrile

Concen: 2321.880 ug/l

RT: 5.12 min Scan# 455

Delta R.T. 0.23 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

CG-SOIL-1

Tot Ion: 41 Resp: 465

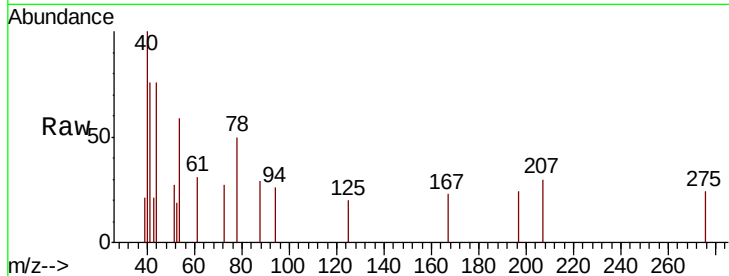
Ion Ratio Lower Upper

41 100

39 28.1 55.0 82.4#

67 0.0 49.6 74.4#

52 24.9 38.8 58.2#

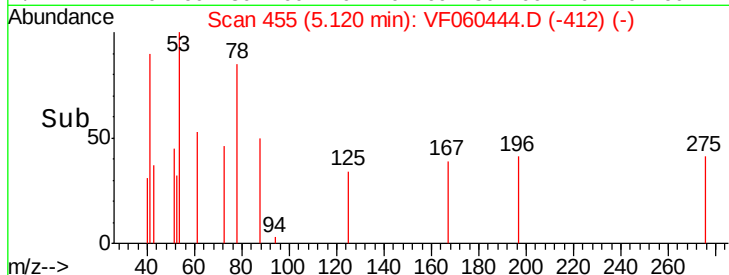
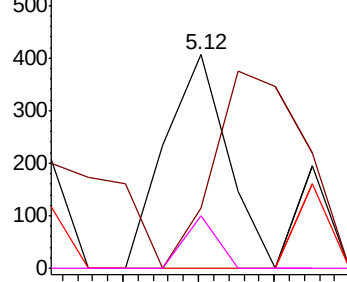


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#43

Isopropyl Acetate

Concen: 409.682 ug/l

RT: 7.44 min Scan# 690

Delta R.T. 0.36 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

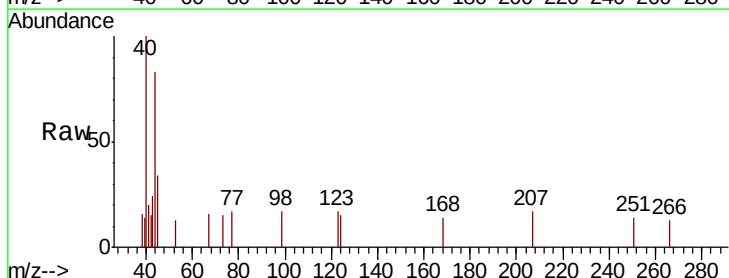
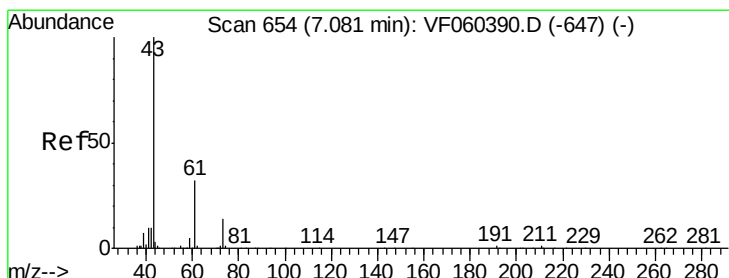
Tgt Ion: 43 Resp: 187

Ion Ratio Lower Upper

43 100

61 0.0 25.4 38.2#

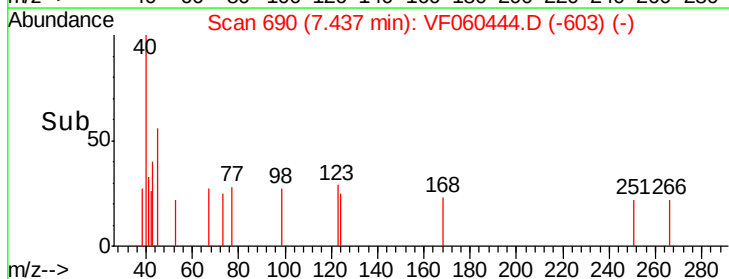
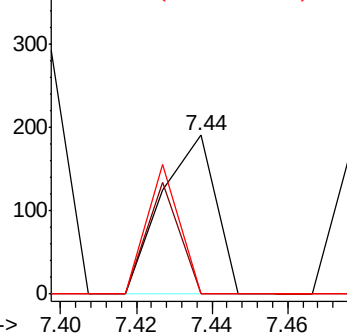
87 0.0 0.3 0.5#

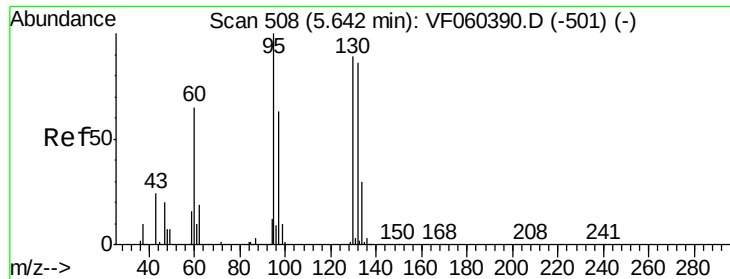


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

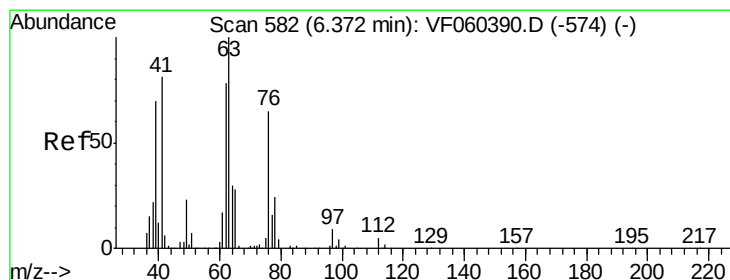
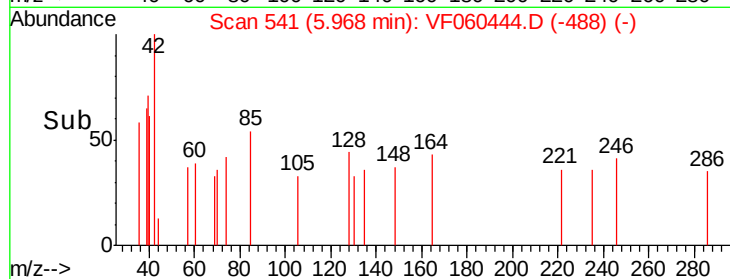
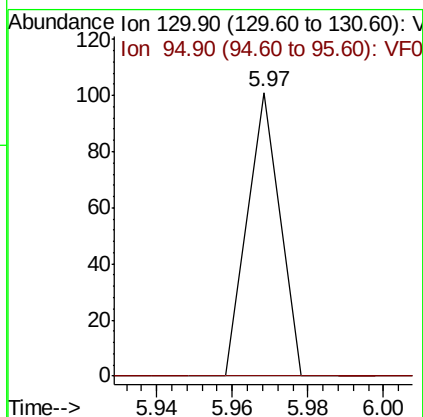
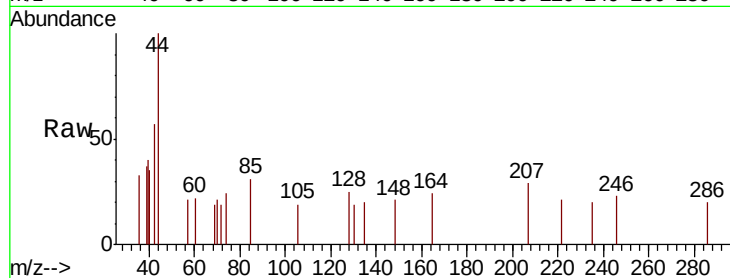




#44
 Trichloroethene
 Concen: 95.500 ug/l
 RT: 5.97 min Scan# 541
 Delta R.T. 0.33 min
 Lab File: VF060444.D
 Acq: 4 Oct 2018 19:06

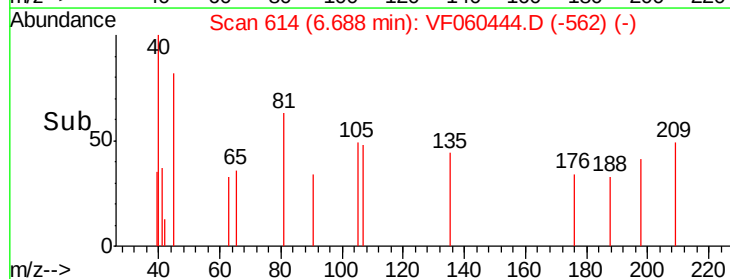
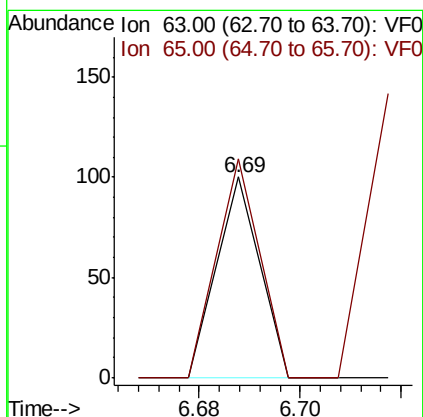
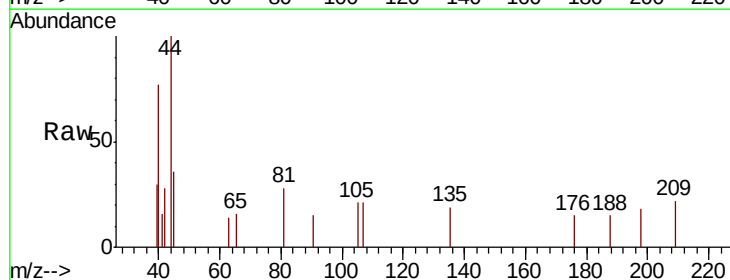
Instrument :
 MSVOA_F
 ClientSampled :
 CG-SOIL-1

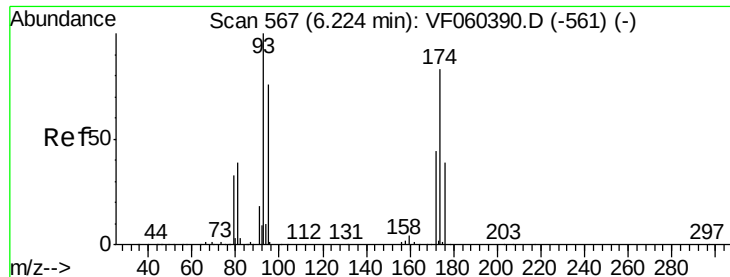
Tot Ion:130 Resp: 60
 Ion Ratio Lower Upper
 130 100
 95 0.0 0.0 224.4



#45
 1,2-Dichloropropane
 Concen: 113.145 ug/l
 RT: 6.69 min Scan# 614
 Delta R.T. 0.32 min
 Lab File: VF060444.D
 Acq: 4 Oct 2018 19:06

Tgt Ion: 63 Resp: 59
 Ion Ratio Lower Upper
 63 100
 65 109.0 22.7 34.1#





#46

Dibromomethane

Concen: 157.424 ug/l

RT: 6.53 min Scan# 598

Delta R.T. 0.31 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampled :

CG-SOIL-1

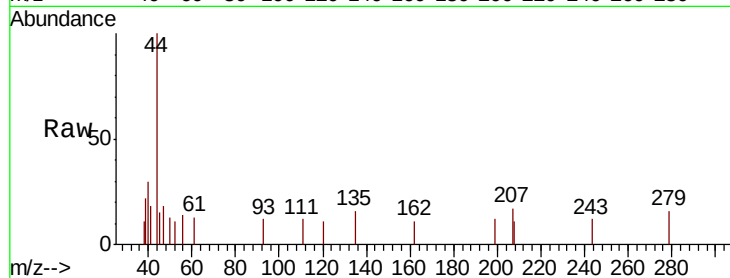
Tot Ion: 93 Resp: 66

Ion Ratio Lower Upper

93 100

95 0.0 61.1 91.7#

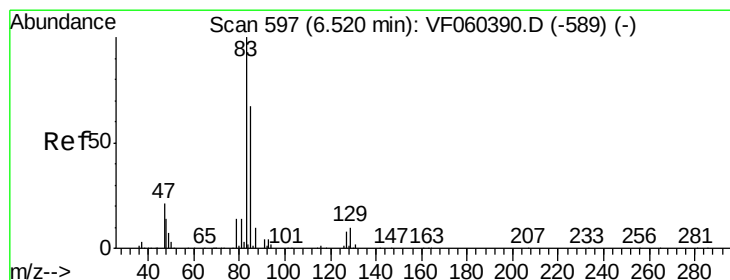
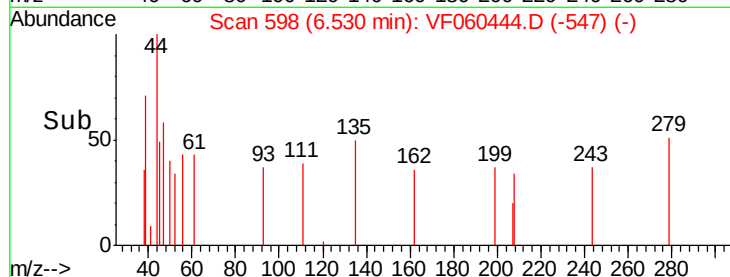
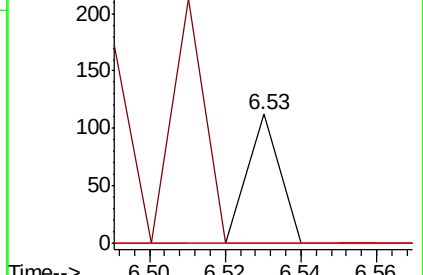
174 0.0 66.7 100.1#



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: 63.563 ug/l

RT: 6.80 min Scan# 625

Delta R.T. 0.28 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

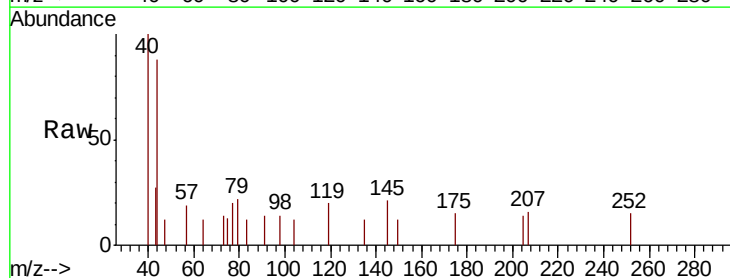
Tgt Ion: 83 Resp: 66

Ion Ratio Lower Upper

83 100

85 0.0 53.2 79.8#

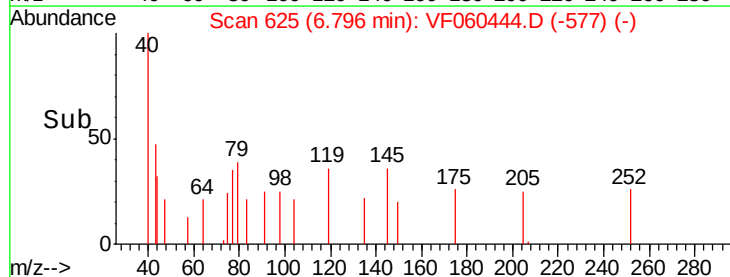
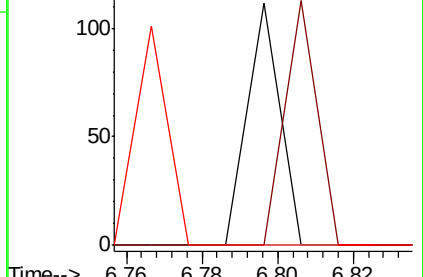
127 0.0 6.6 9.8#

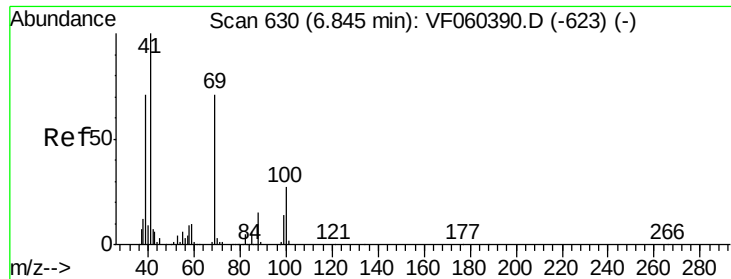


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V

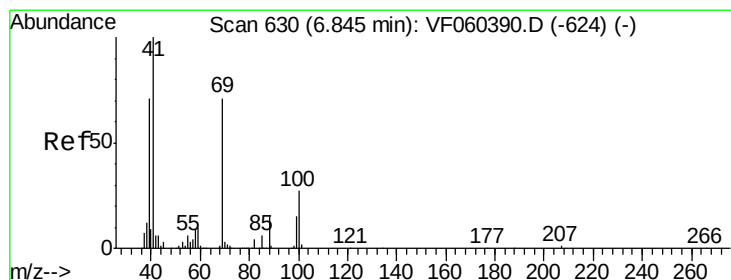
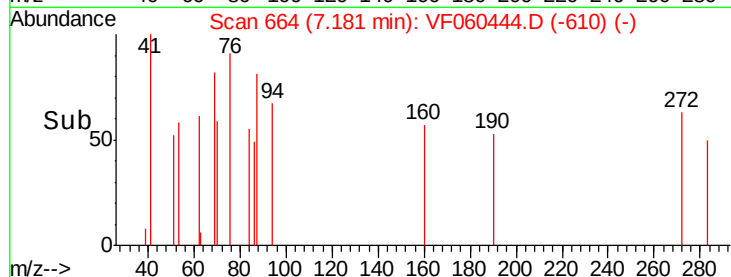
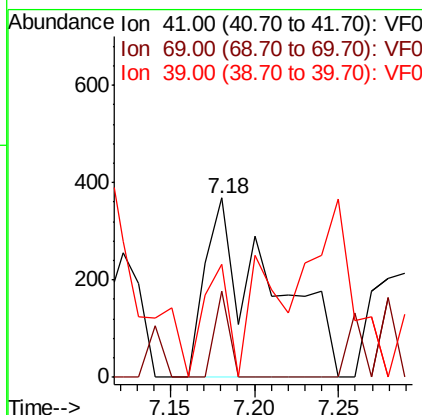
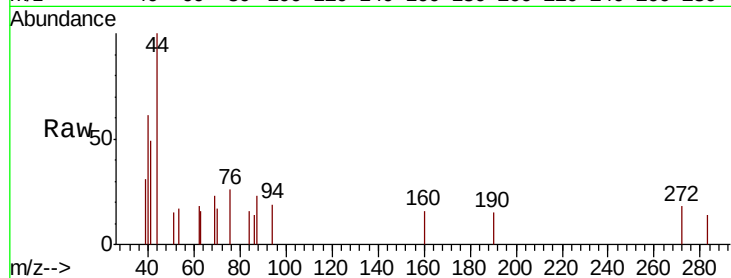




#48
Methvl methacrylate
Concen: 3027.569 ug/l
RT: 7.18 min Scan# 664
Delta R.T. 0.34 min
Lab File: VF060444.D
Acq: 4 Oct 2018 19:06

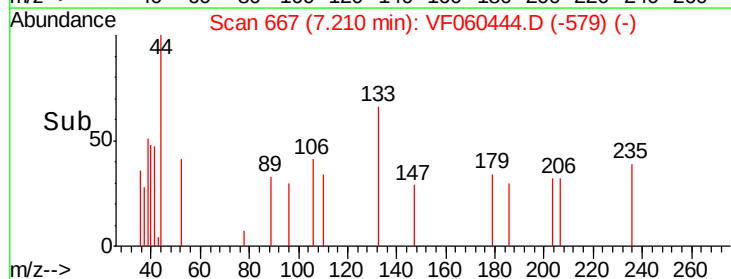
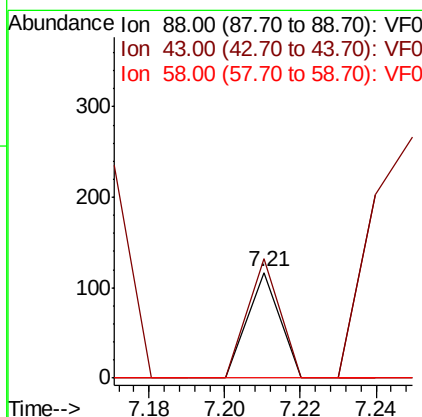
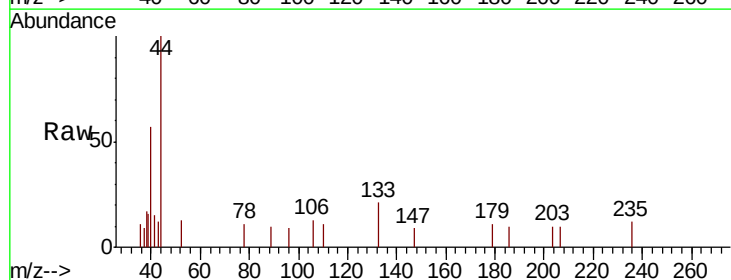
Instrument :
MSVOA_F
ClientSampleId :
CG-SOIL-1

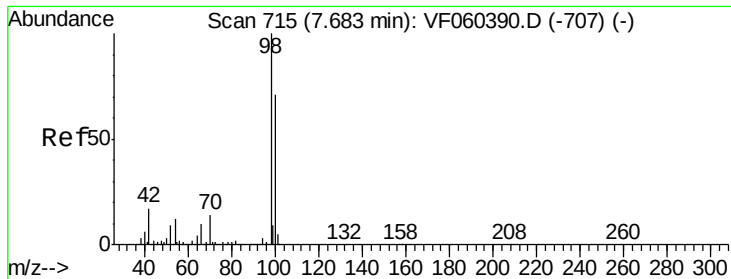
Tot Ion: 41 Resp: 992
Ion Ratio Lower Upper
41 100
69 47.8 56.3 84.5#
39 63.3 56.9 85.3



#49
1,4-Dioxane
Concen: 24423.762 ug/l
RT: 7.21 min Scan# 667
Delta R.T. 0.37 min
Lab File: VF060444.D
Acq: 4 Oct 2018 19:06

Tgt Ion: 88 Resp: 69
Ion Ratio Lower Upper
88 100
43 112.8 38.3 57.5#
58 0.0 47.4 71.2#





#50

Toluene-d8

Concen: 32.957 ug/l

RT: 8.08 min Scan# 755

Delta R.T. 0.40 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampled :

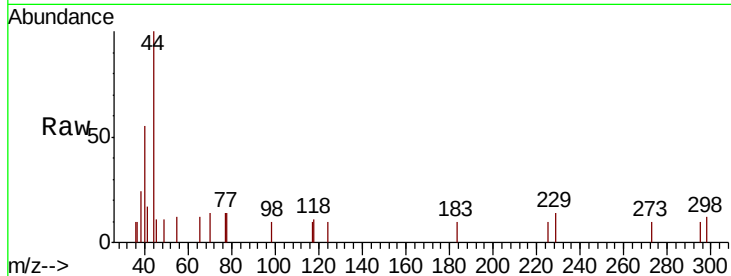
CG-SOIL-1

Tot Ion: 98 Resp: 61

Ion Ratio Lower Upper

98 100

100 0.0 56.5 84.7#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF

8.08

100

80

60

40

20

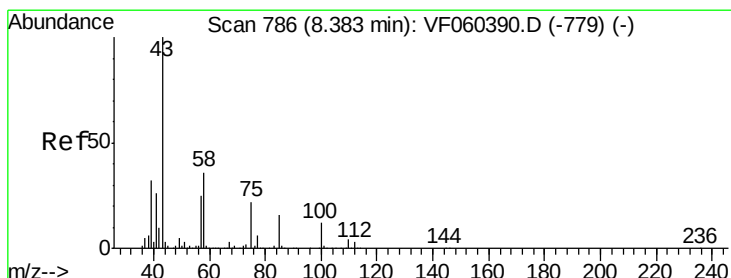
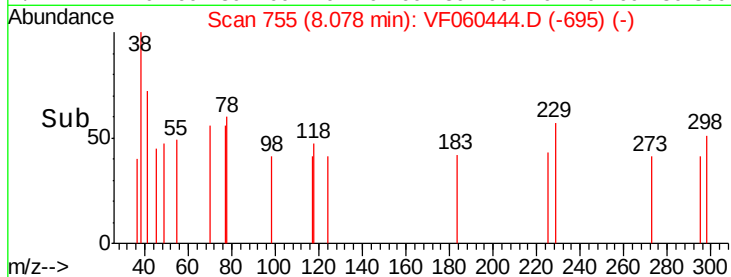
0

8.06

8.08

8.10

Time-->



#51

4-Methyl-2-Pentanone

Concen: 541.668 ug/l

RT: 8.79 min Scan# 827

Delta R.T. 0.40 min

Lab File: VF060444.D

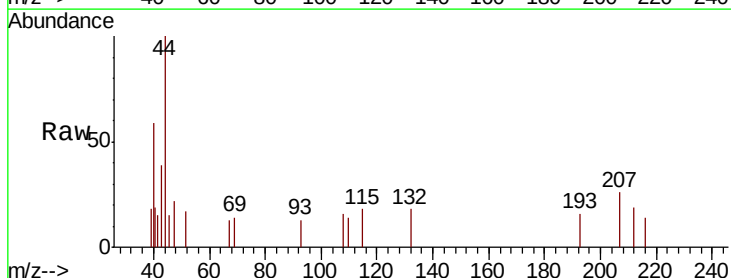
Acq: 4 Oct 2018 19:06

Tgt Ion: 43 Resp: 176

Ion Ratio Lower Upper

43 100

58 0.0 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.79

300

200

100

0

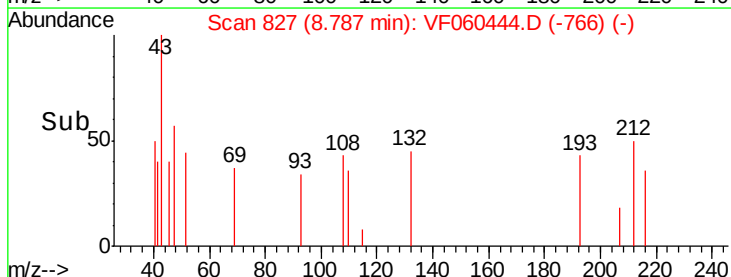
8.77

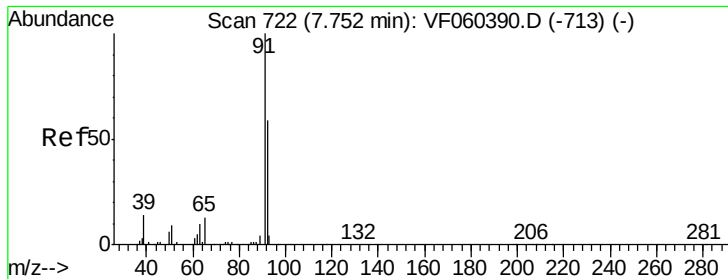
8.78

8.79

8.80

Time-->





#52

Toluene

Concen: 51.881 ug/l

RT: 8.04 min Scan# 751

Delta R.T. 0.29 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

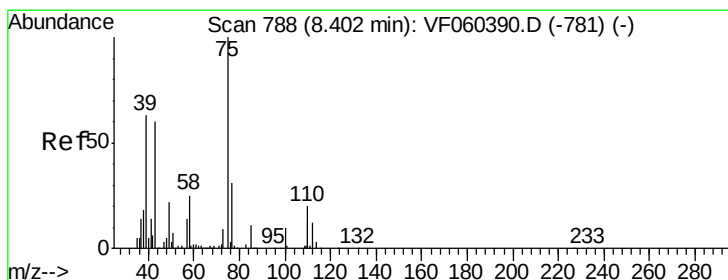
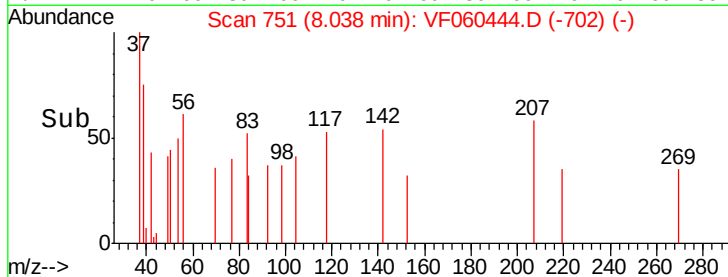
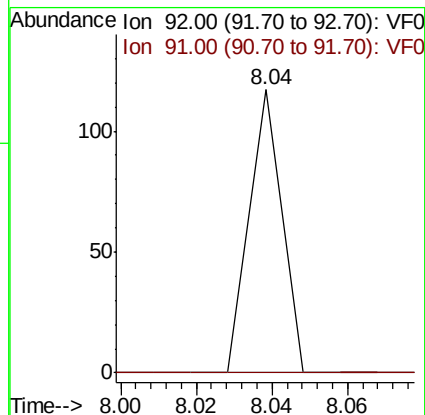
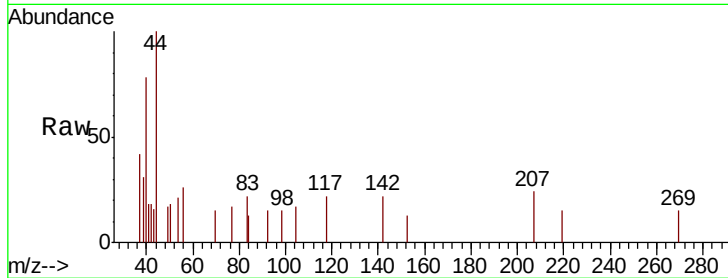
CG-SOIL-1

Tot Ion: 92 Resp: 69

Ion Ratio Lower Upper

92 100

91 0.0 135.4 203.0#



#53

t-1,3-Dichloropropene

Concen: 113.058 ug/l

RT: 8.87 min Scan# 835

Delta R.T. 0.46 min

Lab File: VF060444.D

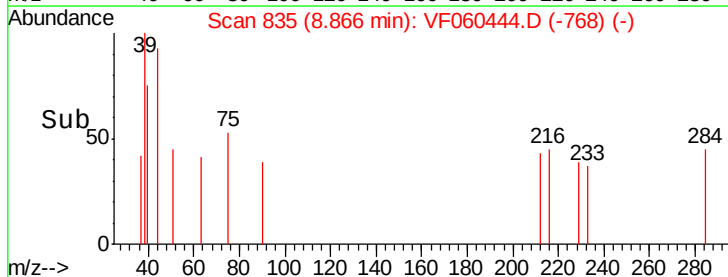
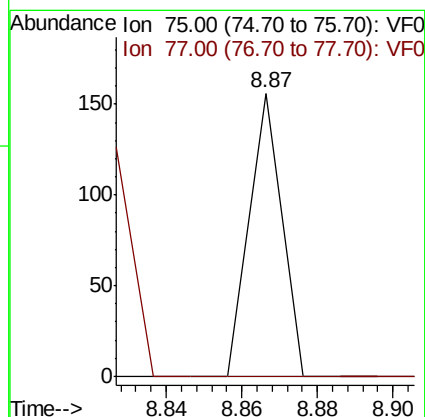
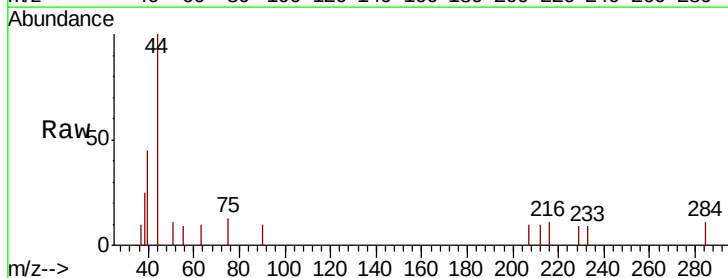
Acq: 4 Oct 2018 19:06

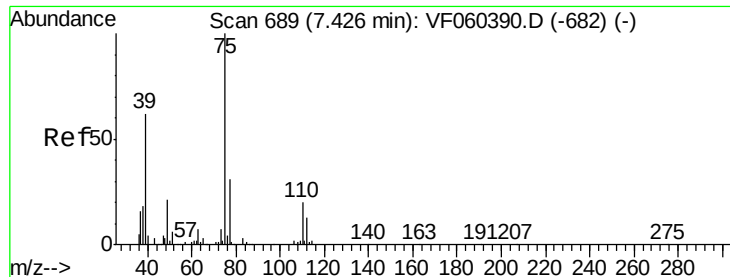
Tgt Ion: 75 Resp: 92

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#





#54

cis-1,3-Dichloropropene

Concen: 75.707 ug/l

RT: 7.77 min Scan# 724

Delta R.T. 0.35 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

CG-SOIL-1

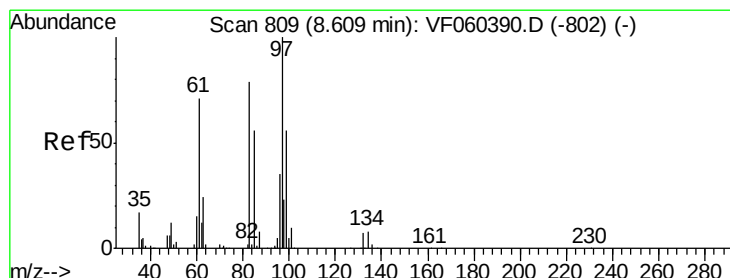
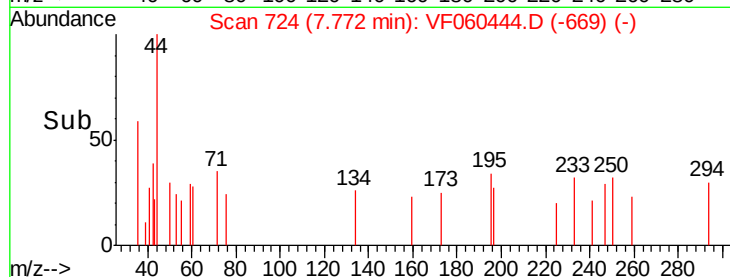
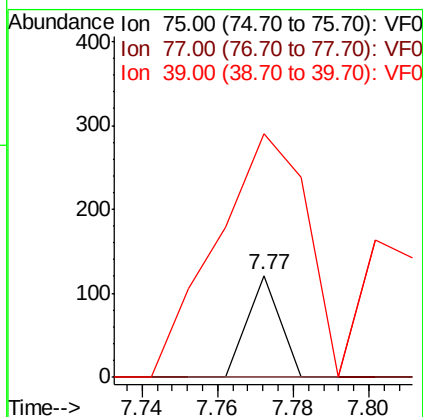
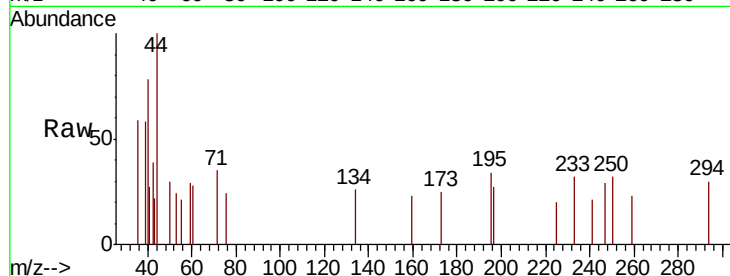
Tot Ion: 75 Resp: 72

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 239.7 49.7 74.5#



#55

1,1,2-Trichloroethane

Concen: 227.725 ug/l

RT: 9.12 min Scan# 861

Delta R.T. 0.51 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Tgt Ion: 97 Resp: 96

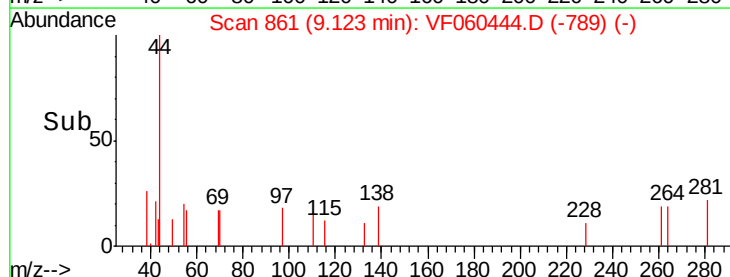
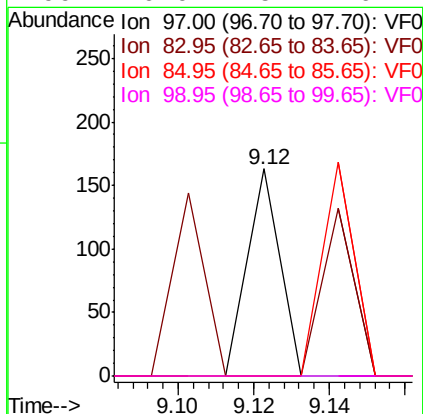
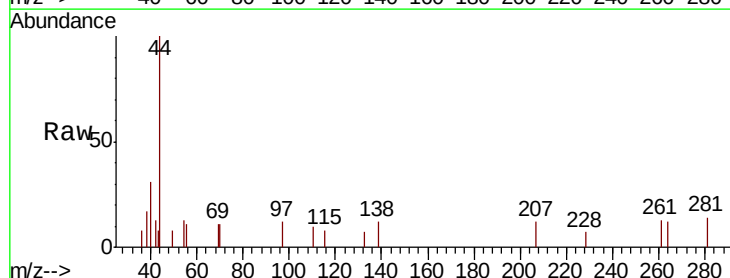
Ion Ratio Lower Upper

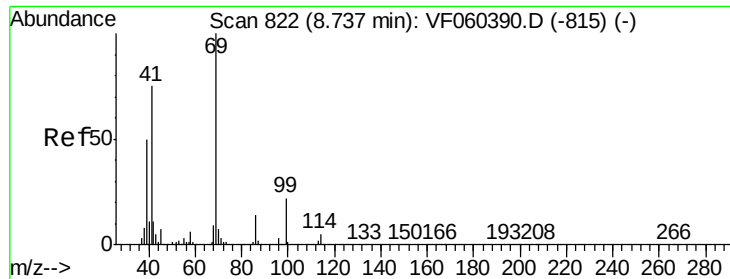
97 100

83 0.0 63.4 95.0#

85 0.0 44.5 66.7#

99 0.0 45.1 67.7#





#56

Ethyl methacrylate

Concen: 590.777 ug/l

RT: 9.15 min Scan# 864

Delta R.T. 0.41 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampled :

CG-SOIL-1

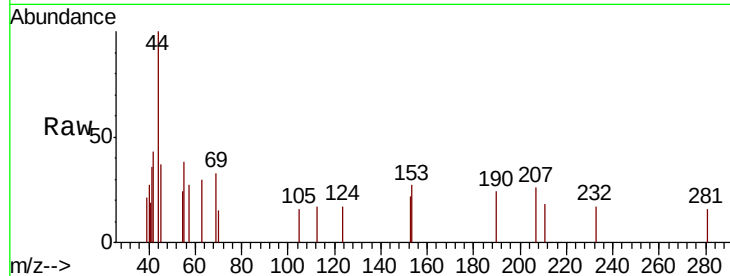
Tot Ion: 69 Resp: 283

Ion Ratio Lower Upper

69 100

41 168.6 60.2 90.4#

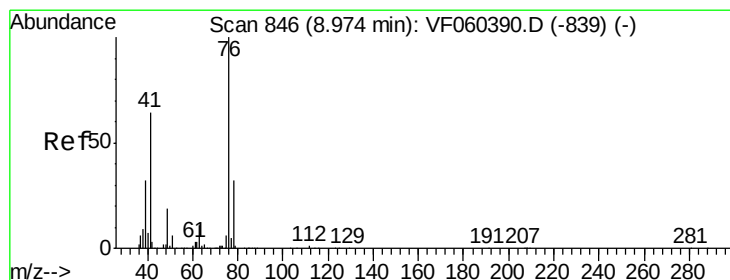
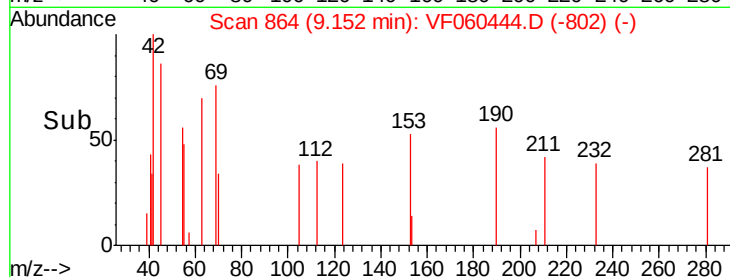
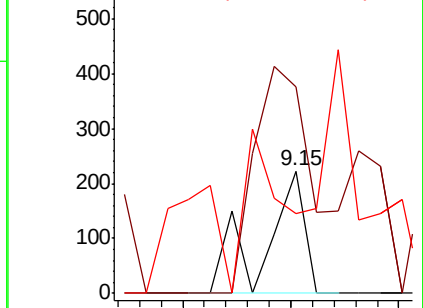
39 65.5 40.2 60.2#



Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#57

1,3-Dichloropropane

Concen: 106.567 ug/l

RT: 9.44 min Scan# 893

Delta R.T. 0.46 min

Lab File: VF060444.D

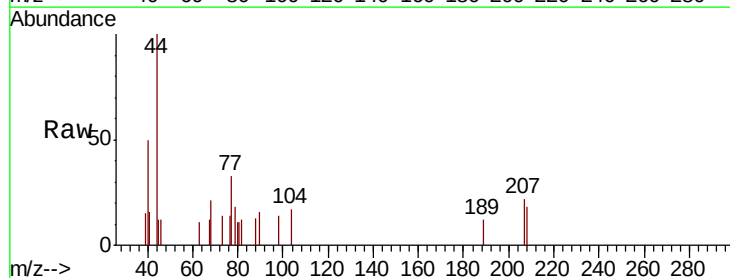
Acq: 4 Oct 2018 19:06

Tgt Ion: 76 Resp: 76

Ion Ratio Lower Upper

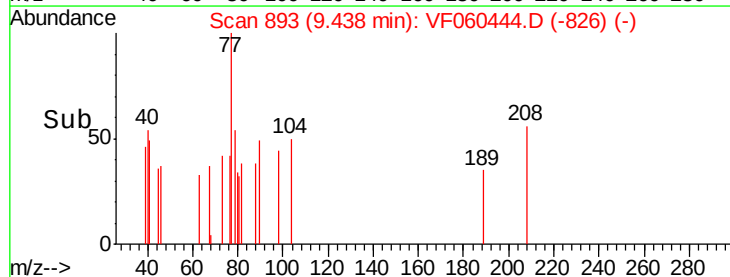
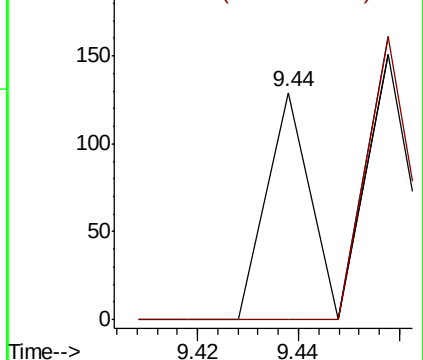
76 100

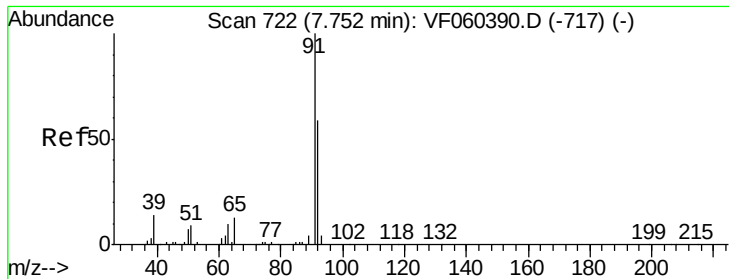
78 0.0 25.3 37.9#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

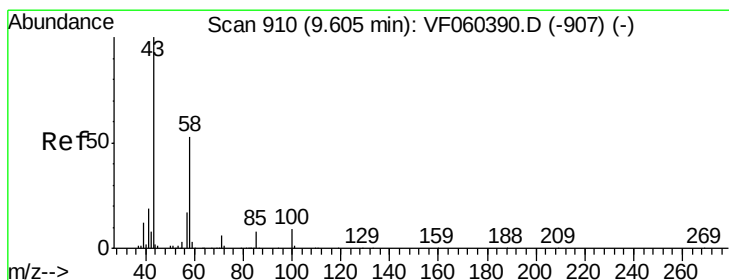
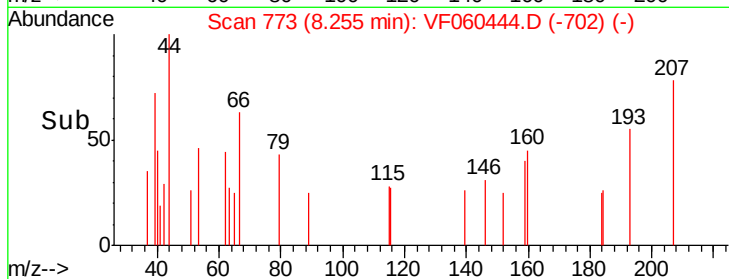
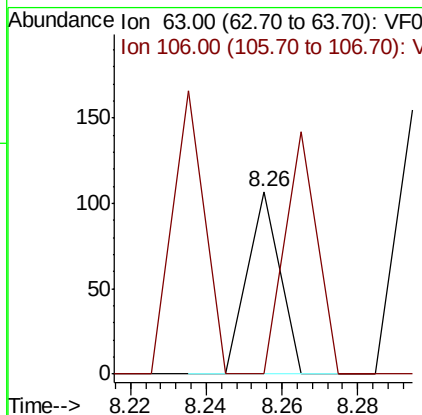
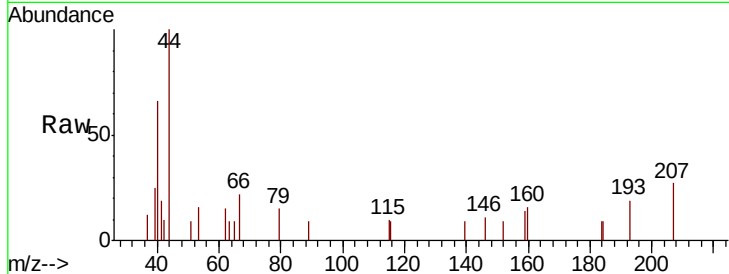




#58
 2-Chloroethyl Vinyl ether
 Concen: 1287.538 ug/l
 RT: 8.26 min Scan# 773
 Delta R.T. 0.50 min
 Lab File: VF060444.D
 Acq: 4 Oct 2018 19:06

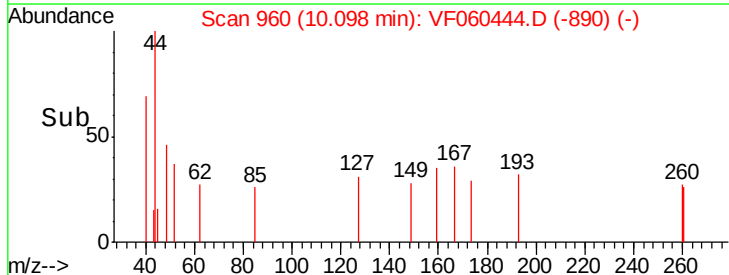
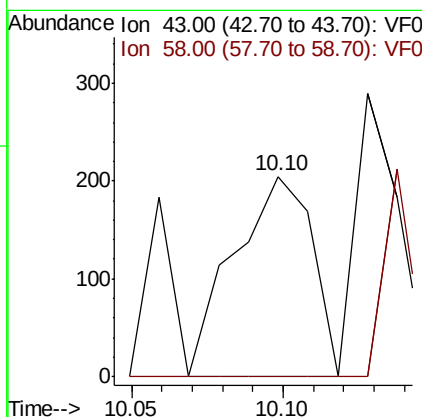
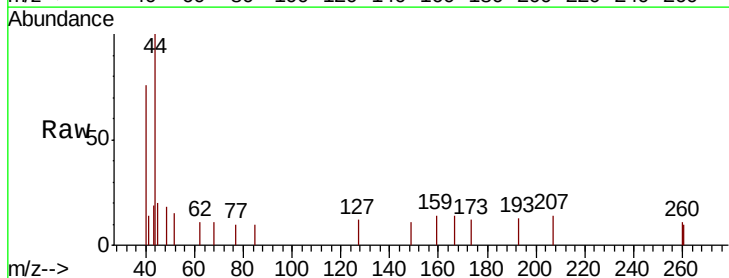
Instrument :
 MSVOA_F
 ClientSampleId :
 CG-SOIL-1

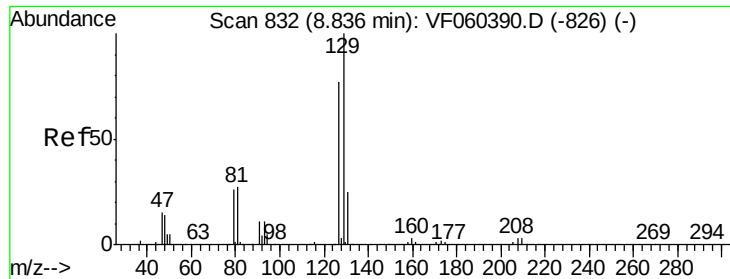
Tot Ion: 63 Resp: 63
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: 1552.496 ug/l
 RT: 10.10 min Scan# 960
 Delta R.T. 0.49 min
 Lab File: VF060444.D
 Acq: 4 Oct 2018 19:06

Tgt Ion: 43 Resp: 370
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.6 76.6#





#60

Dibromochloromethane

Concen: 108.709 ug/l

RT: 9.22 min Scan# 871

Delta R.T. 0.39 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

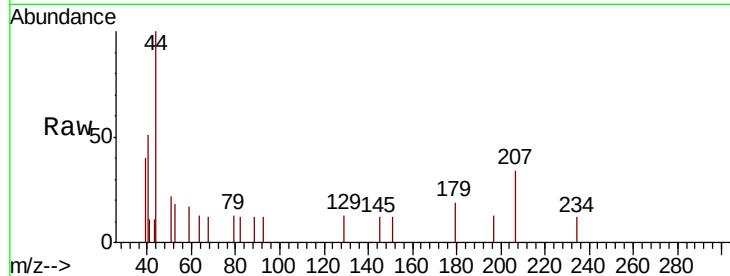
CG-SOIL-1

Tot Ion:129 Resp: 69

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

9.22

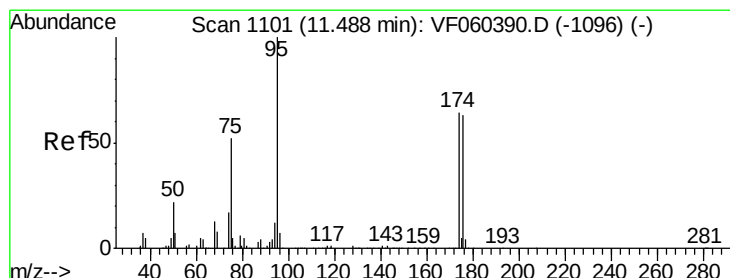
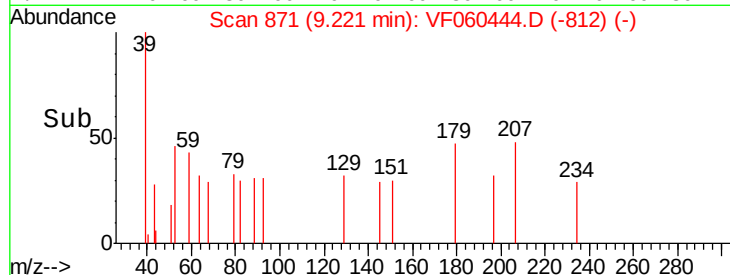
100

50

0

Time-->

9.20 9.22 9.24



#62

4-Bromofluorobenzene

Concen: 98.211 ug/l

RT: 12.05 min Scan# 1158

Delta R.T. 0.56 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

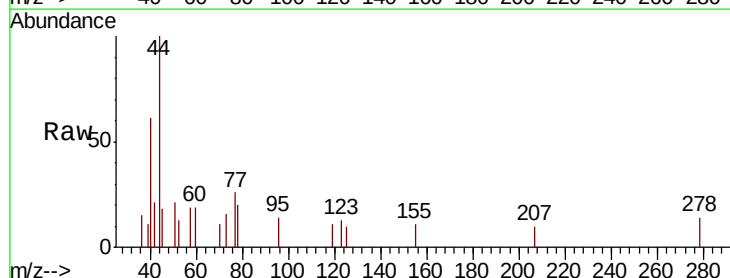
Tgt Ion: 95 Resp: 83

Ion Ratio Lower Upper

95 100

174 0.0 0.0 129.0

176 0.0 0.0 125.6



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V

12.05

150

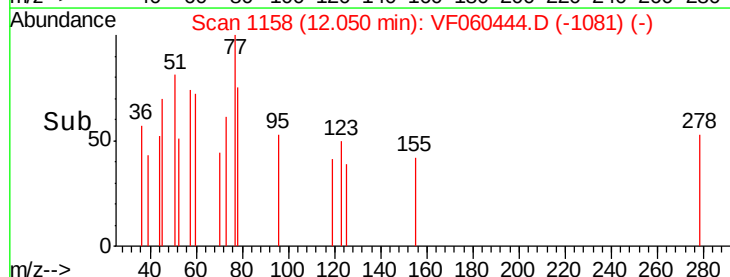
100

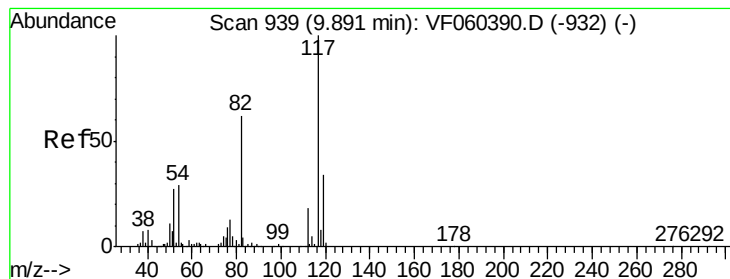
50

0

Time-->

12.02 12.04 12.06





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.27 min Scan# 977

Delta R.T. 0.38 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

CG-SOIL-1

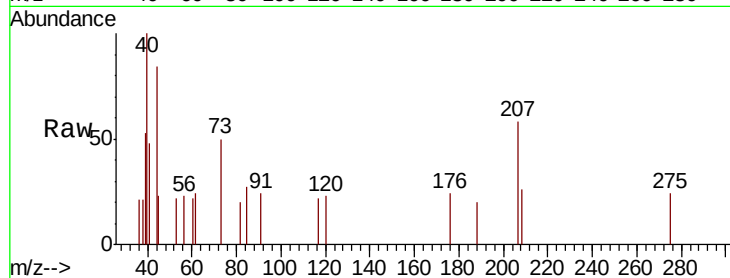
Tot Ion:117 Resp: 66

Ion Ratio Lower Upper

117 100

82 0.0 49.5 74.3#

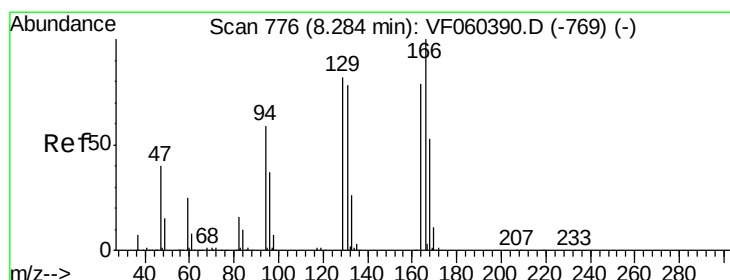
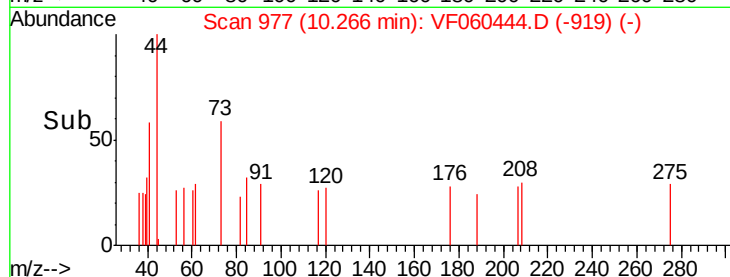
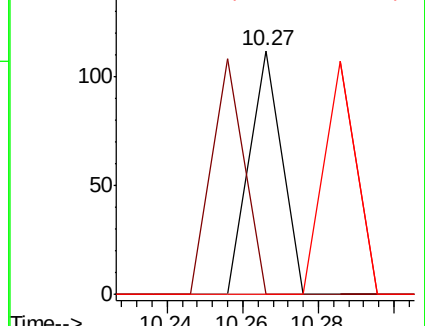
119 0.0 27.0 40.6#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



#64

Tetrachloroethene

Concen: 181.069 ug/l

RT: 8.33 min Scan# 781

Delta R.T. 0.05 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Tgt Ion:164 Resp: 95

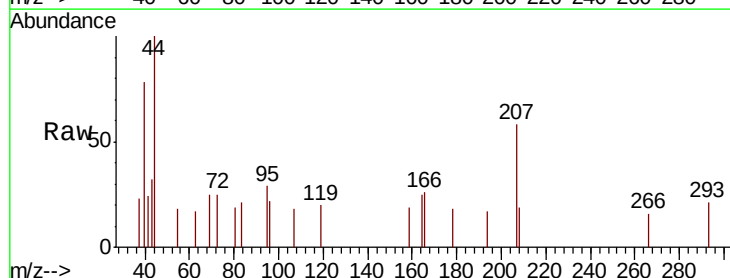
Ion Ratio Lower Upper

164 100

166 104.3 101.0 151.6

129 0.0 82.5 123.7#

131 0.0 79.2 118.8#

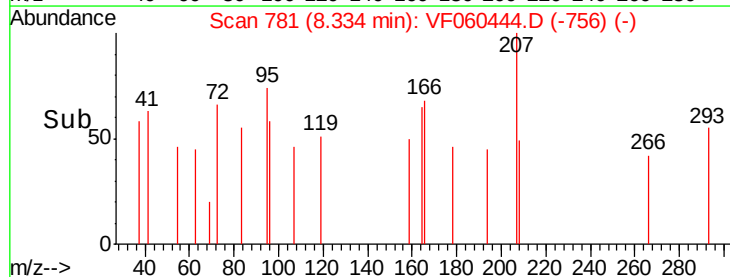
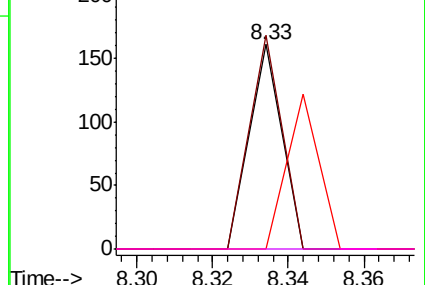


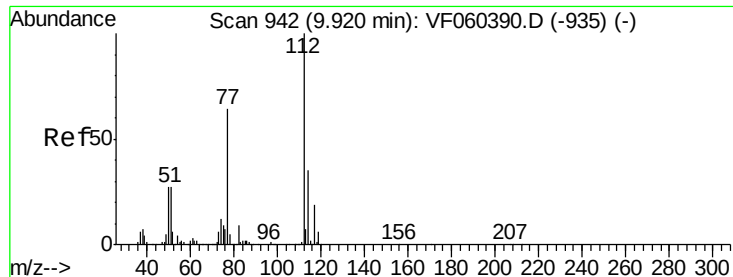
Abundance Ion 163.85 (163.55 to 164.55): V

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

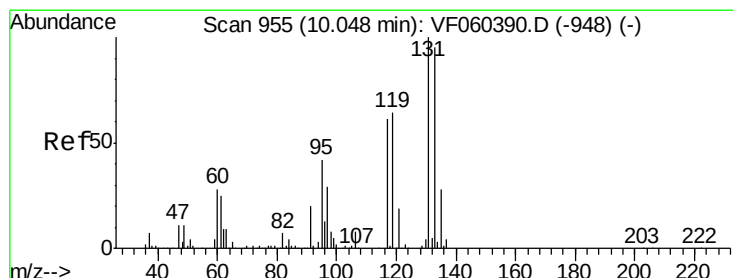
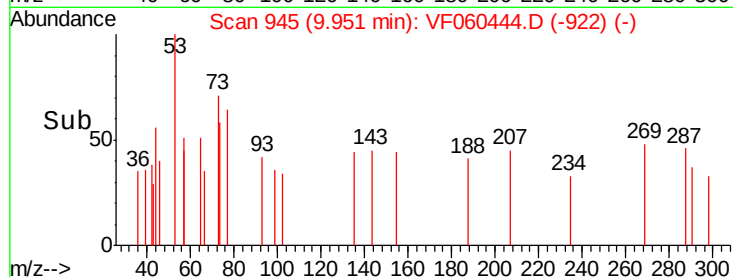
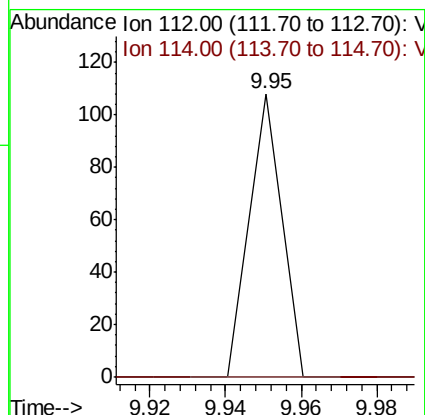
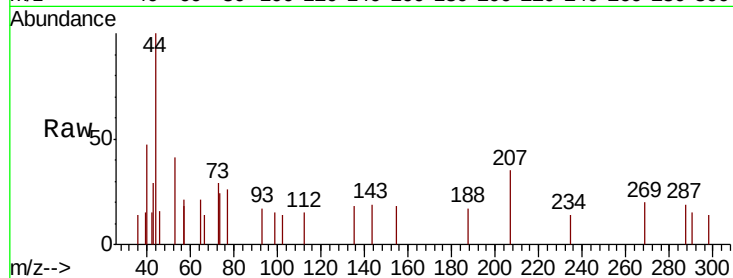




#65
Chlorobenzene
Concen: 47.206 ug/l
RT: 9.95 min Scan# 945
Delta R.T. 0.03 min
Lab File: VF060444.D
Acq: 4 Oct 2018 19:06

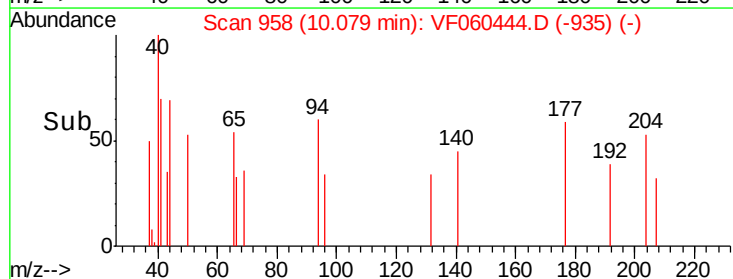
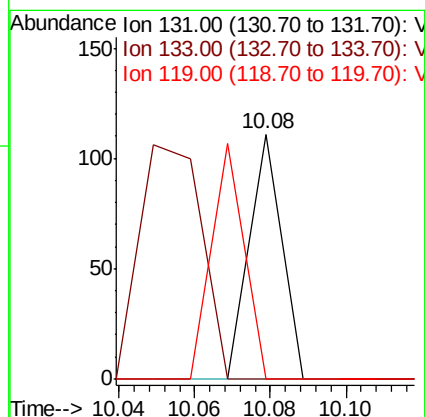
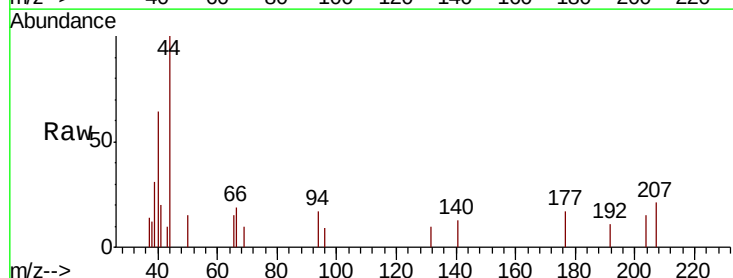
Instrument :
MSVOA_F
ClientSampleId :
CG-SOIL-1

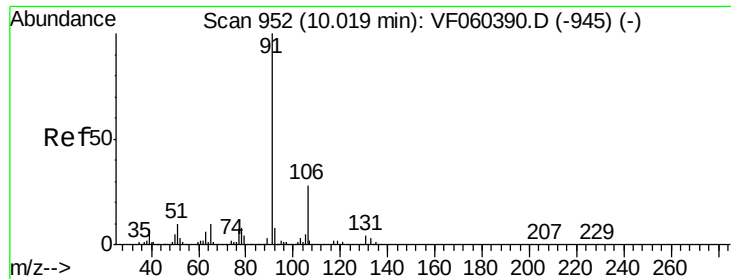
Tot Ion:112 Resp: 64
Ion Ratio Lower Upper
112 100
114 0.0 27.7 41.5#



#66
1,1,1,2-Tetrachloroethane
Concen: 111.491 ug/l
RT: 10.08 min Scan# 958
Delta R.T. 0.03 min
Lab File: VF060444.D
Acq: 4 Oct 2018 19:06

Tgt Ion:131 Resp: 66
Ion Ratio Lower Upper
131 100
133 0.0 47.3 141.8#
119 0.0 32.3 96.9#





#67

Ethyl Benzene

Concen: 57.800 ug/l

RT: 10.02 min Scan# 952

Delta R.T. 0.00 min

Lab File: VF060444.D

Acq: 4 Oct 2018 19:06

Instrument :

MSVOA_F

ClientSampleId :

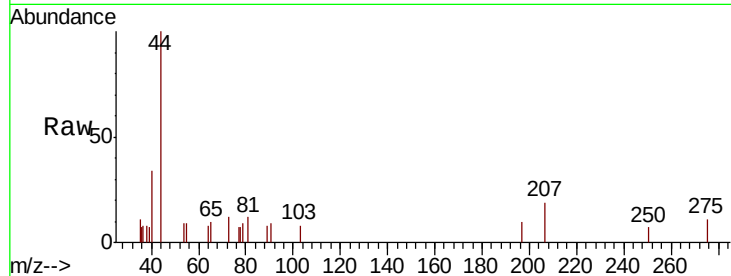
CG-SOIL-1

Tot Ion: 91 Resp: 149

Ion Ratio Lower Upper

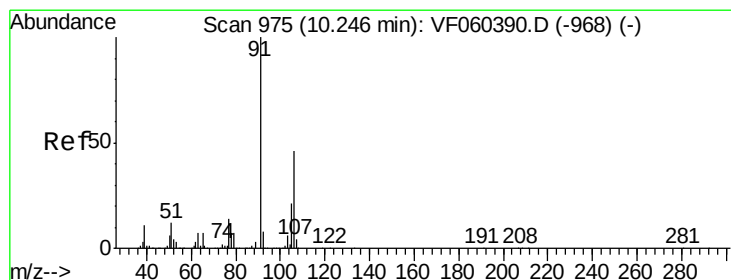
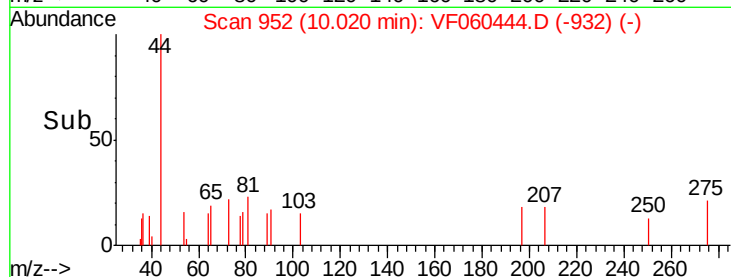
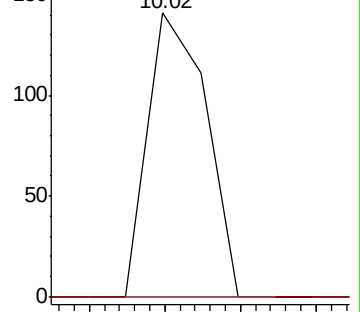
91 100

106 0.0 22.5 33.7#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 103.817 ug/l

RT: 10.29 min Scan# 979

Delta R.T. 0.04 min

Lab File: VF060444.D

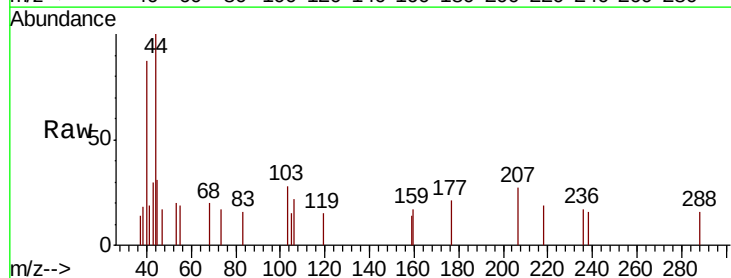
Acq: 4 Oct 2018 19:06

Tgt Ion: 106 Resp: 92

Ion Ratio Lower Upper

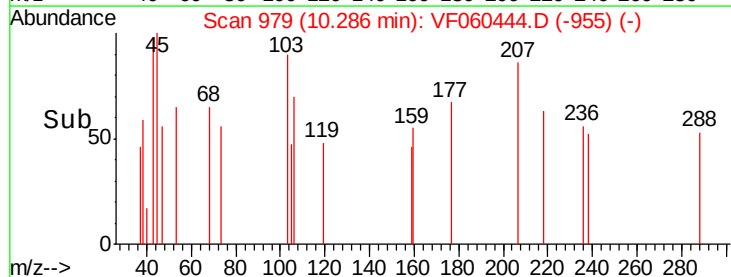
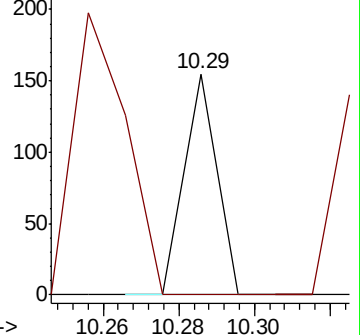
106 100

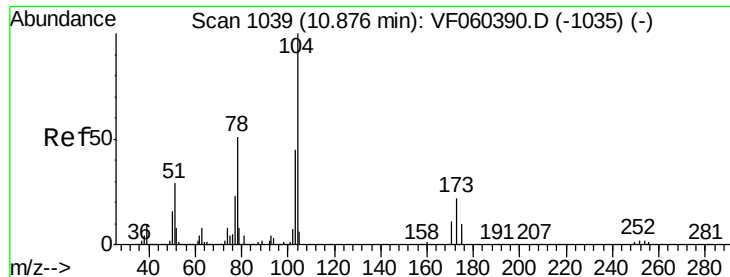
91 0.0 175.0 262.6#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

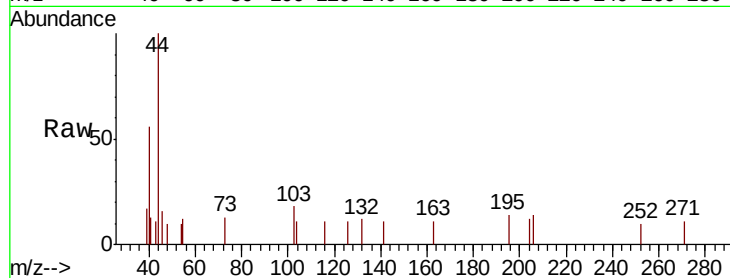




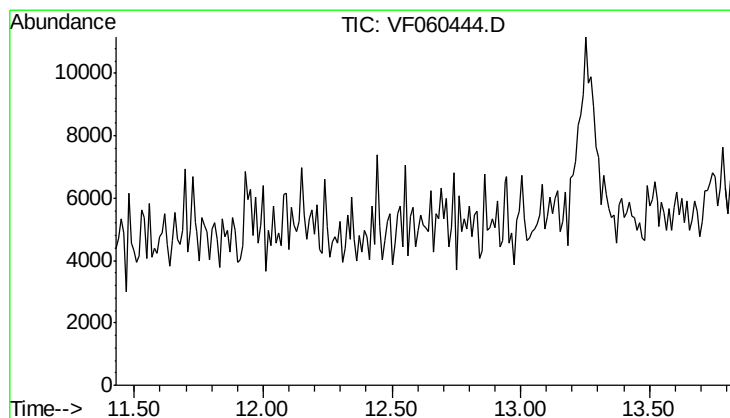
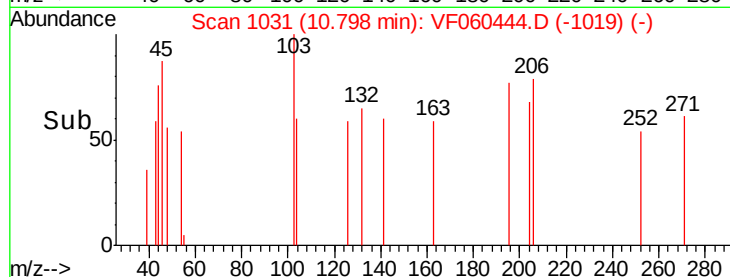
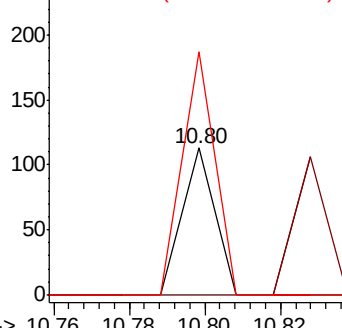
#70
Stvrene
Concen: 48.764 ug/l
RT: 10.80 min Scan# 1031
Delta R.T. -0.08 min
Lab File: VF060444.D
Acq: 4 Oct 2018 19:06

Instrument :
MSVOA_F
ClientSampleId :
CG-SOIL-1

Tot Ion:104 Resp: 67
Ion Ratio Lower Upper
104 100
78 0.0 41.0 61.4#
103 165.5 36.4 54.6#



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



#72
1,4-Dichlorobenzene-d4
Concen: 0.000 ug/l
Expected RT: 12.62 min

Lab File: VF060444.D
Acq: 4 Oct 2018 19:06

Tgt Ion: 152
Sig Exp Ratio
152 100
115 57.2
150 162.3

