

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092818\
 Data File : VF060384.D
 Acq On : 28 Sep 2018 23:08
 Operator : VA/AP
 Sample : J5170-25
 Misc : 6.53/5mL/MSVOA F/SOIL
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-5

Quant Time: Sep 29 00:22:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

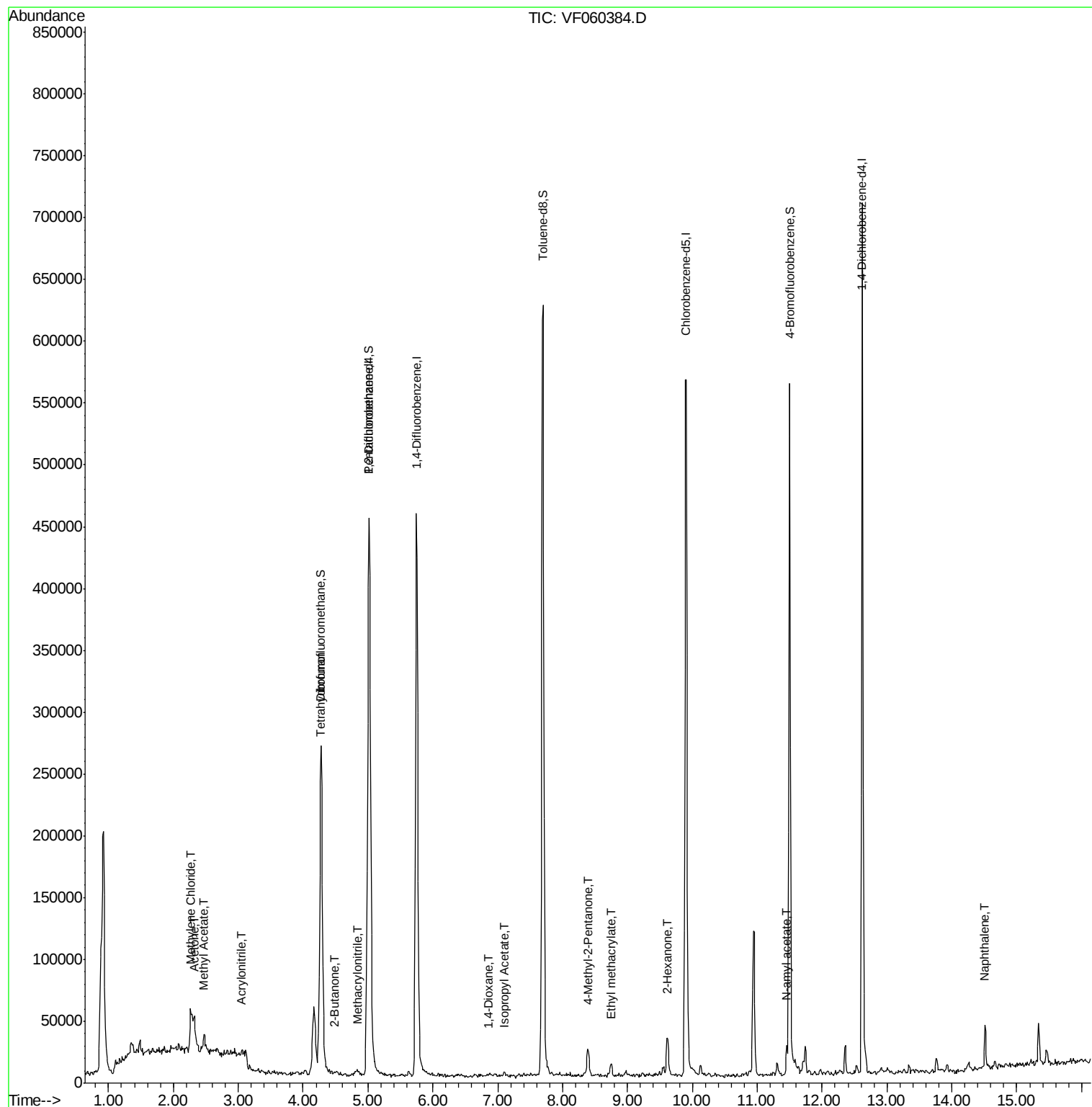
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	296189	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.75	114	494200	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.91	117	411455	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.63	152	182473	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.01	65	225977	56.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	113.32%	
35) Dibromofluoromethane	4.28	113	243958	55.38	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	110.76%	
50) Toluene-d8	7.70	98	555176	48.39	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	96.78%	
62) 4-Bromofluorobenzene	11.49	95	212334	42.82	ug/l	-0.01
Spiked Amount 50.000			Recovery	=	85.64%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.98	85	648	Below Cal	#	40
5) Bromomethane	1.33	94	261	Below Cal	#	55
11) Tert butyl alcohol	2.66	59	578	Below Cal	#	3
13) Acrolein	2.18	56	1117	Below Cal		82
15) Acrylonitrile	3.06	53	1468	2.606	ug/l #	38
16) Acetone	2.33	43	17928	15.962	ug/l	98
17) Carbon Disulfide	1.86	76	3660	Below Cal	#	59
18) Methyl Acetate	2.46	43	6524	3.487	ug/l #	62
20) Methylene Chloride	2.27	84	27597	1.955	ug/l #	89
25) 2-Butanone	4.49	43	4893	3.237	ug/l #	74
29) Tetrahydrofuran	4.26	42	929	1.678	ug/l #	84
41) Methacrylonitrile	4.84	41	3165	2.236	ug/l #	42
43) Isopropyl Acetate	7.10	43	6007	1.913	ug/l #	97
49) 1,4-Dioxane	6.86	88	282	14.320	ug/l #	1
51) 4-Methyl-2-Pentanone	8.40	43	22467	9.283	ug/l	98
56) Ethyl methacrylate	8.74	69	6554	2.022	ug/l	91
59) 2-Hexanone	9.62	43	28388	16.474	ug/l	91
74) N-amyl acetate	11.45	43	15330	4.389	ug/l #	91
78) n-propylbenzene	11.68	91	2103	Below Cal		87
85) sec-Butylbenzene	12.38	105	1317	Below Cal	#	40
86) p-Isopropyltoluene	12.53	119	3157	Below Cal		93
89) n-Butylbenzene	12.91	91	2024	Below Cal		95
95) Naphthalene	14.51	128	22769	2.839	ug/l #	92

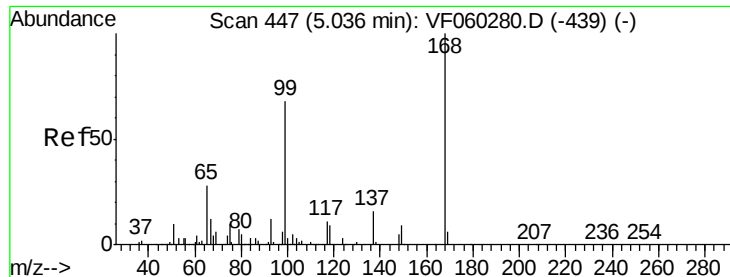
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF060384.D

Acq: 28 Sep 2018 23:08

Instrument :

MSVOA_F

ClientSampleId :

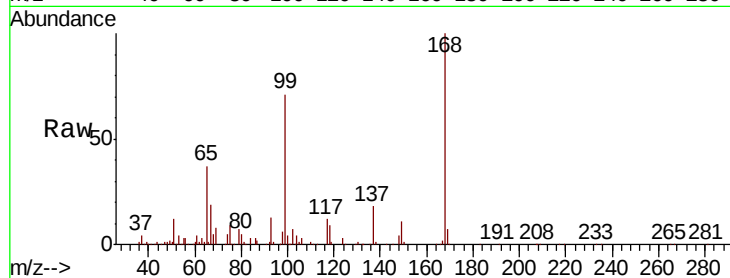
HC-SOIL-5

Tot Ion:168 Resp: 296189

Ion Ratio Lower Upper

168 100

99 71.4 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

100000

80000

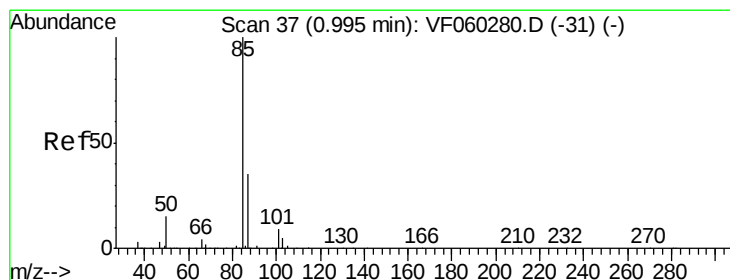
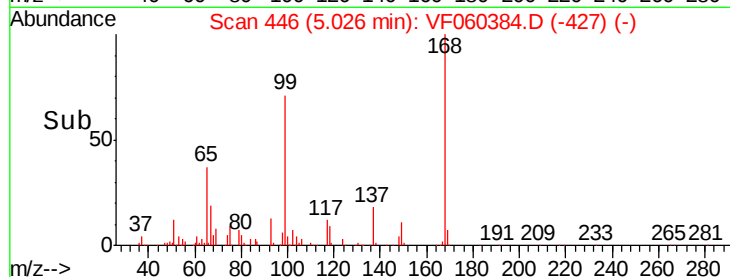
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.98 min Scan# 36

Delta R.T. -0.01 min

Lab File: VF060384.D

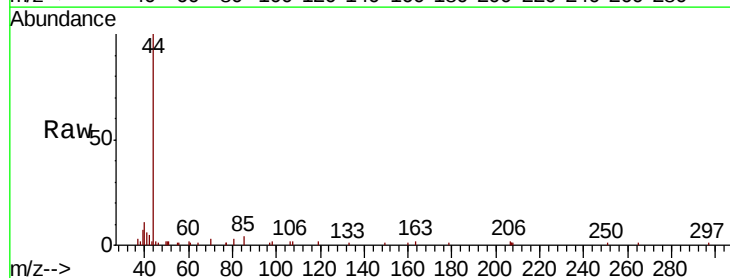
Acq: 28 Sep 2018 23:08

Tgt Ion: 85 Resp: 648

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

400

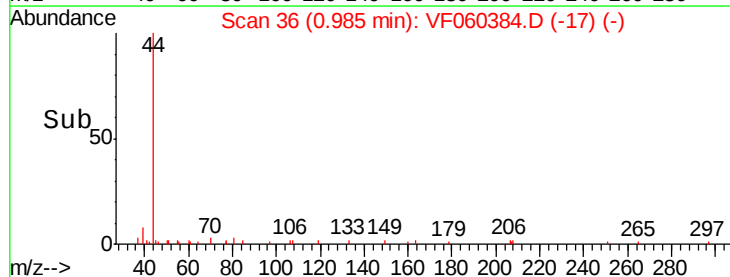
300

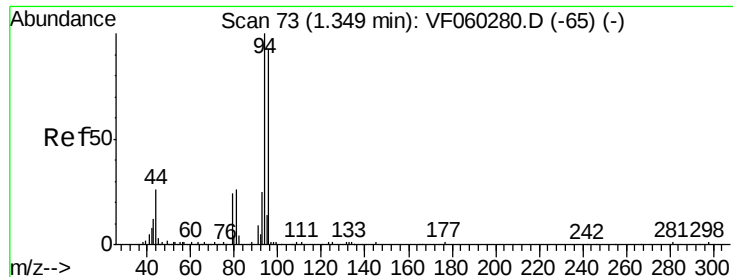
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.33 min Scan# 71

Delta R.T. -0.02 min

Lab File: VF060384.D

Acq: 28 Sep 2018 23:08

Instrument :

MSVOA_F

ClientSampleId :

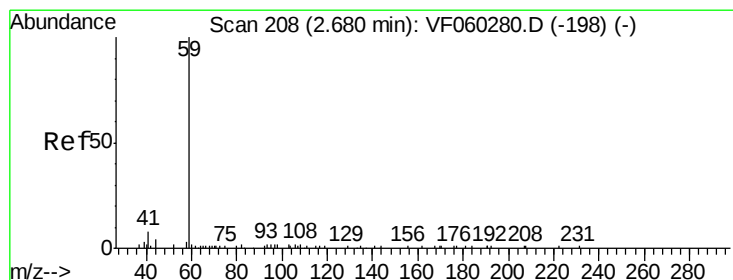
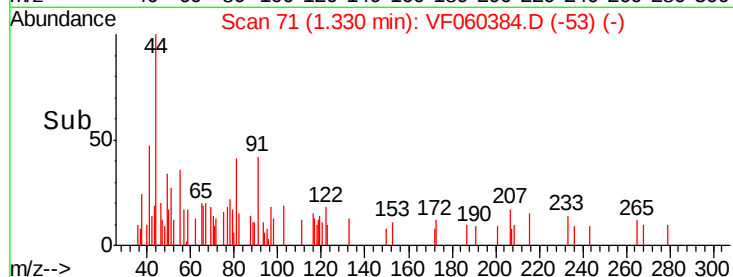
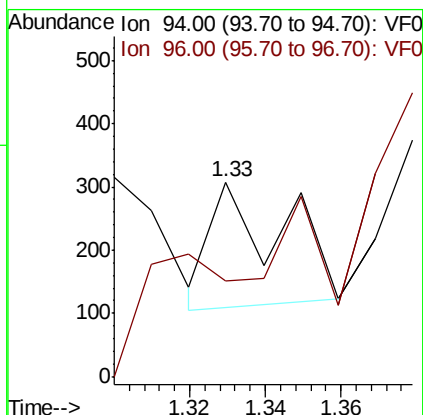
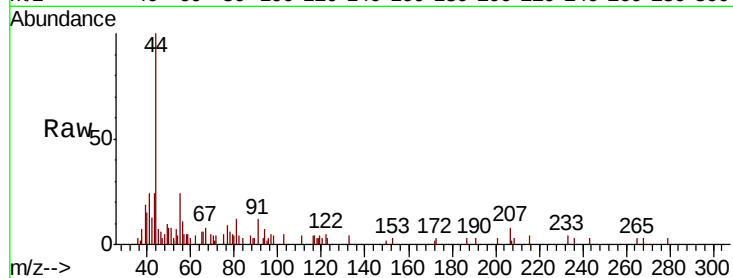
HC-SOIL-5

Tot Ion: 94 Resp: 261

Ion Ratio Lower Upper

94 100

96 49.0 73.9 110.9#



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.66 min Scan# 206

Delta R.T. -0.02 min

Lab File: VF060384.D

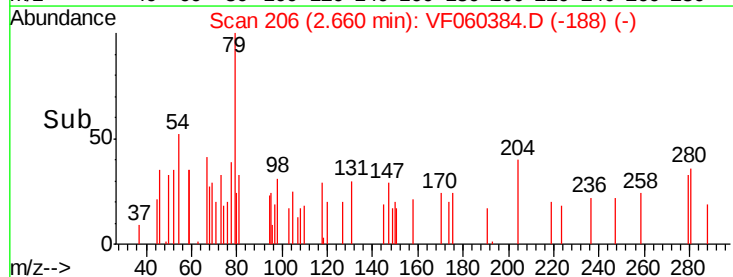
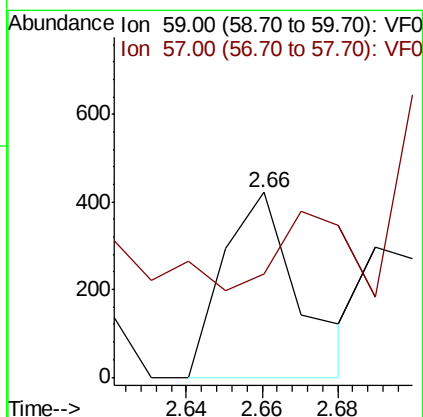
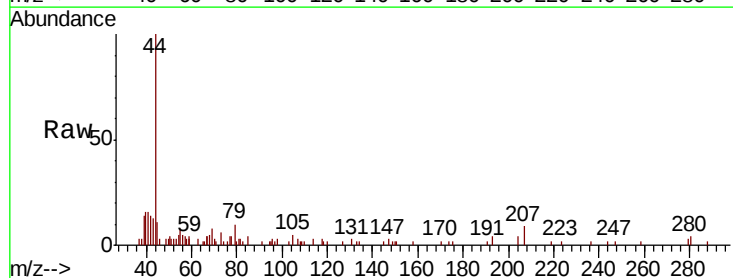
Acq: 28 Sep 2018 23:08

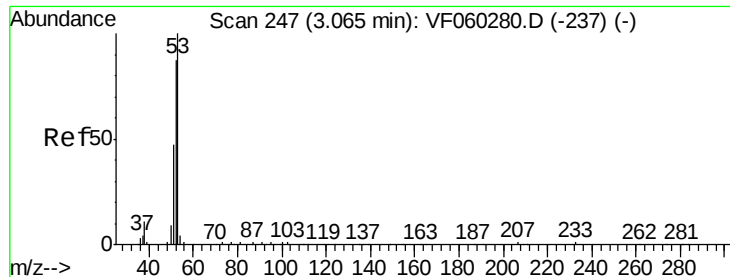
Tgt Ion: 59 Resp: 578

Ion Ratio Lower Upper

59 100

57 56.1 12.4 18.6#





#15

Acrylonitrile

Concen: 2.606 ug/l

RT: 3.06 min Scan# 247

Delta R.T. -0.00 min

Lab File: VF060384.D

Acq: 28 Sep 2018 23:08

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-5

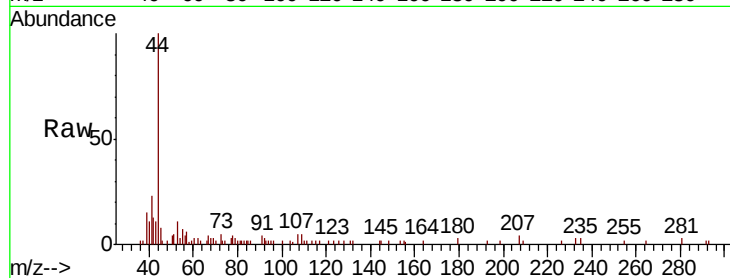
Tot Ion: 53 Resp: 1468

Ion Ratio Lower Upper

53 100

52 0.0 69.5 104.3#

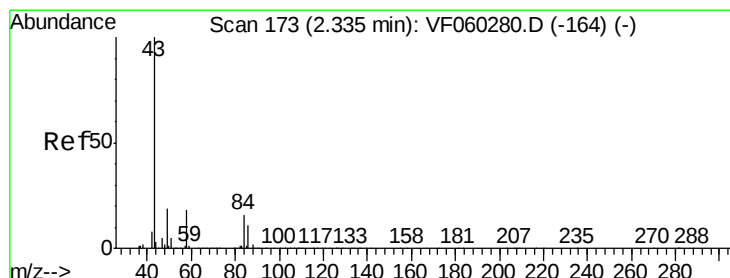
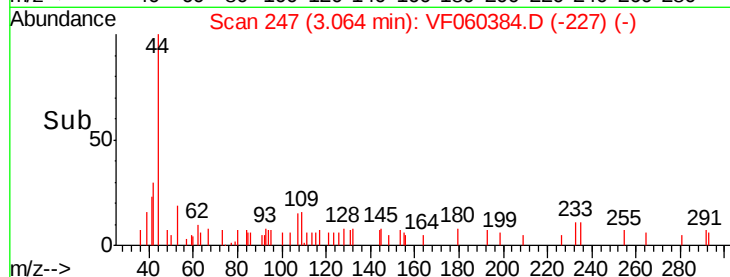
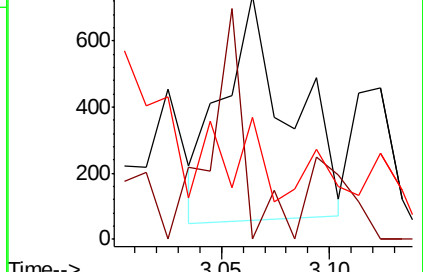
51 49.9 38.1 57.1



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: 15.962 ug/l

RT: 2.33 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF060384.D

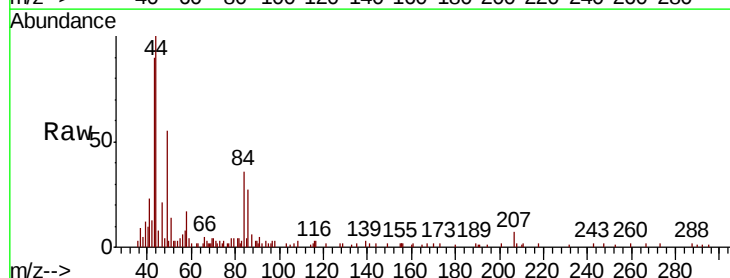
Acq: 28 Sep 2018 23:08

Tgt Ion: 43 Resp: 17928

Ion Ratio Lower Upper

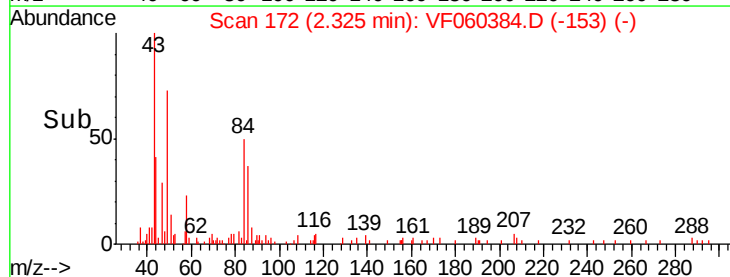
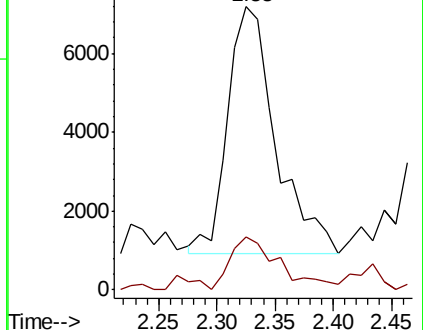
43 100

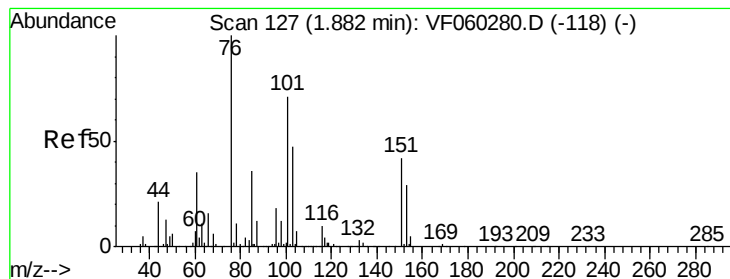
58 18.8 14.5 21.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: Below Cal

RT: 1.86 min Scan# 125

Delta R.T. -0.02 min

Lab File: VF060384.D

Acq: 28 Sep 2018 23:08

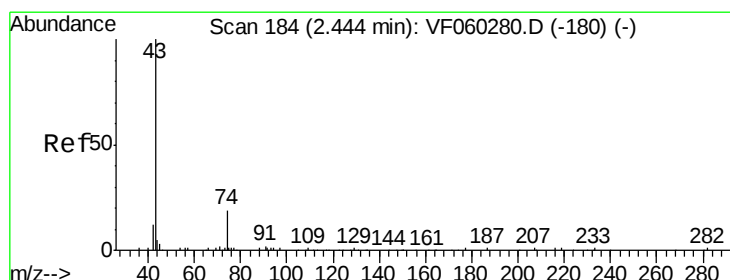
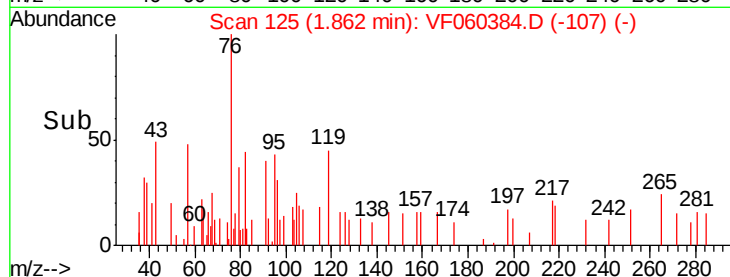
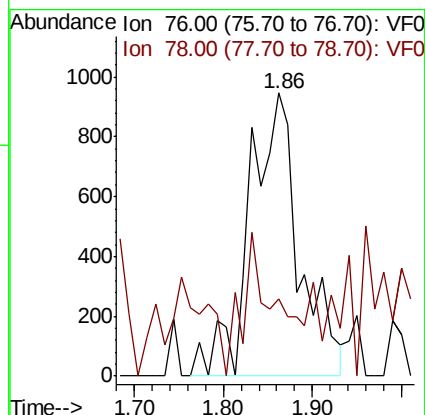
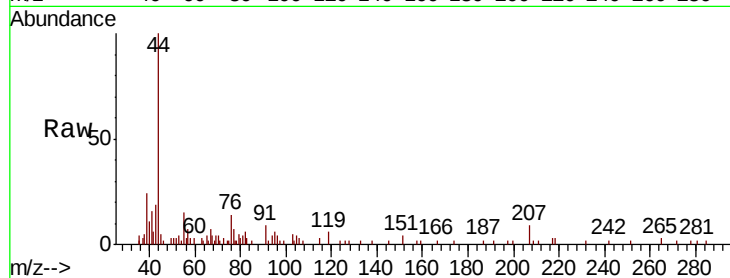
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5

Tot Ion: 76 Resp: 3660

Ion Ratio Lower Upper

76 100

78 27.5 9.4 14.0#



#18

Methyl Acetate

Concen: 3.487 ug/l

RT: 2.46 min Scan# 186

Delta R.T. 0.02 min

Lab File: VF060384.D

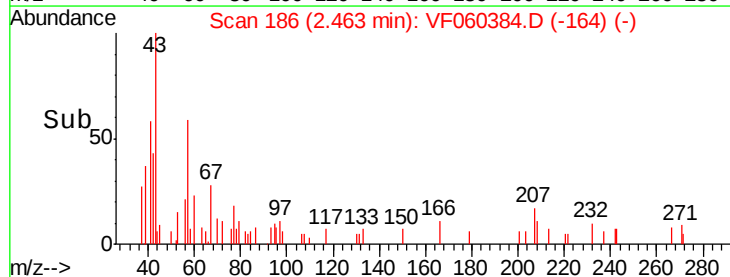
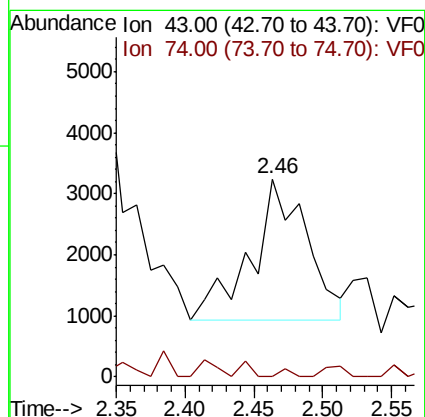
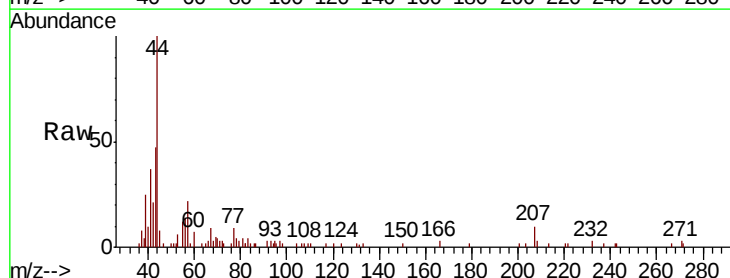
Acq: 28 Sep 2018 23:08

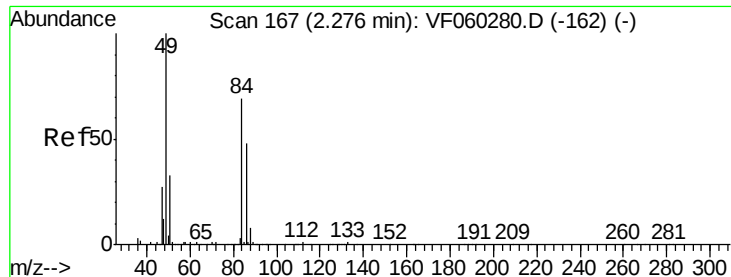
Tgt Ion: 43 Resp: 6524

Ion Ratio Lower Upper

43 100

74 0.0 12.7 19.1#





#20

Methylene Chloride

Concen: 1.955 ug/l

RT: 2.27 min Scan# 166

Delta R.T. -0.01 min

Lab File: VF060384.D

Acq: 28 Sep 2018 23:08

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-5

Tot Ion: 84 Resp: 27597

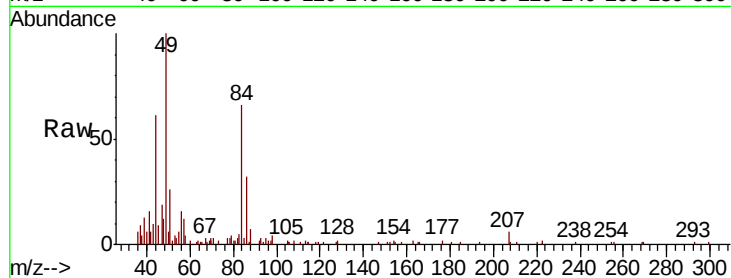
Ion Ratio Lower Upper

84 100

49 152.2 118.3 177.5

51 39.1 38.7 58.1

86 48.2 55.8 83.6#



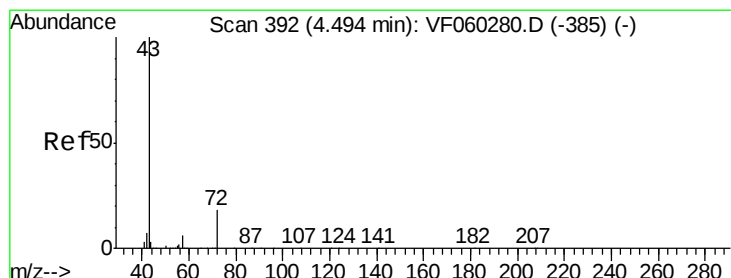
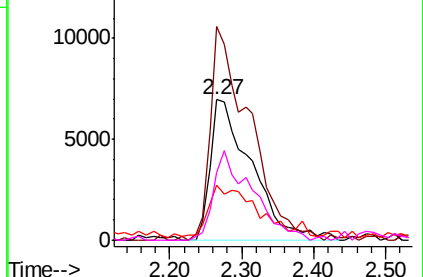
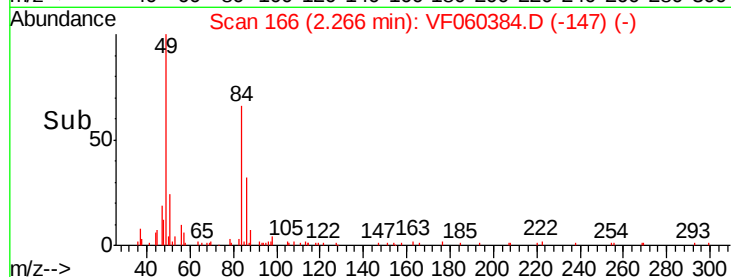
Abundance Ion 84.00 (83.70 to 84.70): VF0

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

Time-->



#25

2-Butanone

Concen: 3.237 ug/l

RT: 4.49 min Scan# 392

Delta R.T. -0.00 min

Lab File: VF060384.D

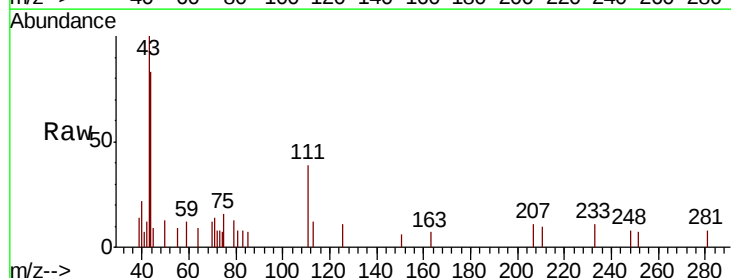
Acq: 28 Sep 2018 23:08

Tgt Ion: 43 Resp: 4893

Ion Ratio Lower Upper

43 100

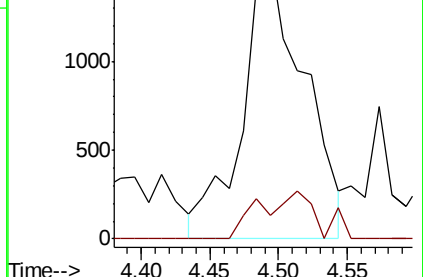
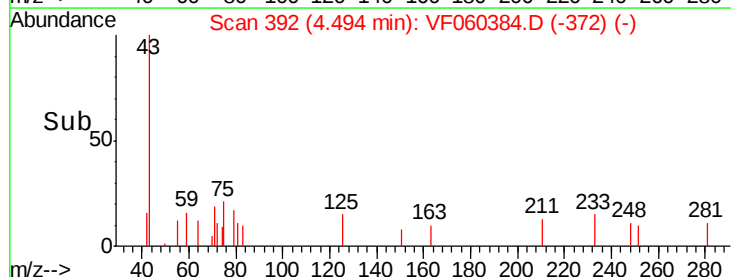
72 8.2 16.2 24.2#

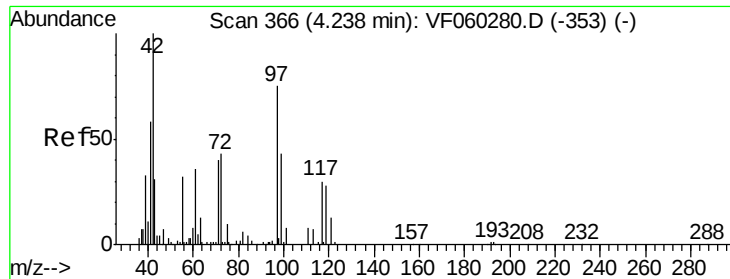


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Time-->

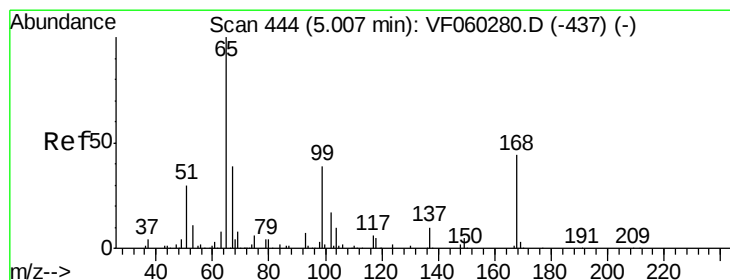
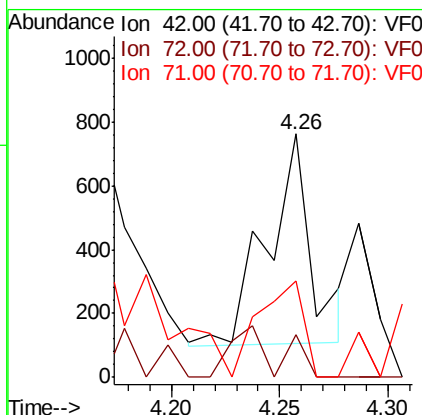
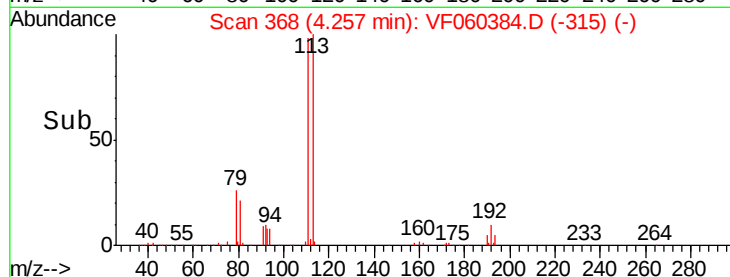
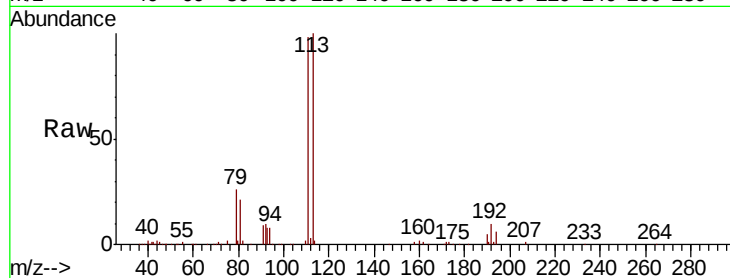




#29
Tetrahydrofuran
Concen: 1.678 ug/l
RT: 4.26 min Scan# 368
Delta R.T. 0.02 min
Lab File: VF060384.D
Acq: 28 Sep 2018 23:08

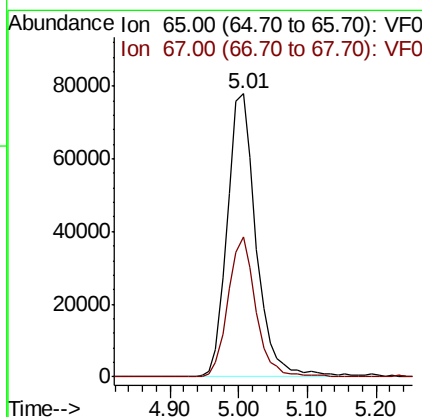
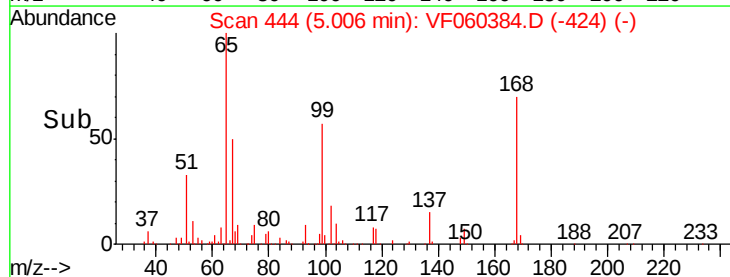
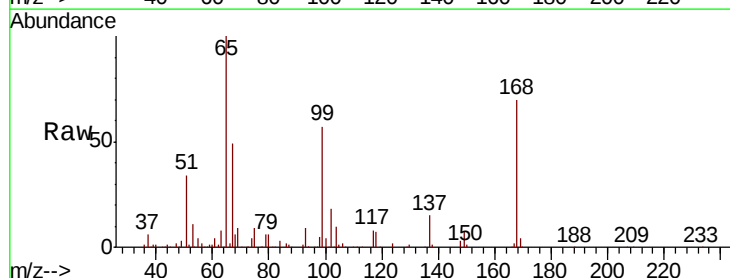
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5

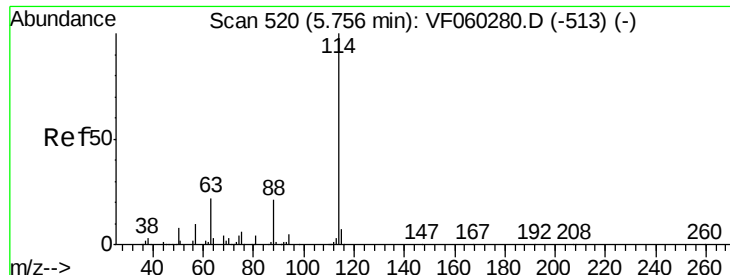
Tot Ion: 42 Resp: 929
Ion Ratio Lower Upper
42 100
72 26.0 32.6 49.0#
71 46.5 32.7 49.1



#33
1,2-Dichloroethane-d4
Concen: 56.660 ug/l
RT: 5.01 min Scan# 444
Delta R.T. -0.00 min
Lab File: VF060384.D
Acq: 28 Sep 2018 23:08

Tgt Ion: 65 Resp: 225977
Ion Ratio Lower Upper
65 100
67 49.5 0.0 94.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.75 min Scan# 519

Delta R.T. -0.01 min

Lab File: VF060384.D

Acq: 28 Sep 2018 23:08

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-5

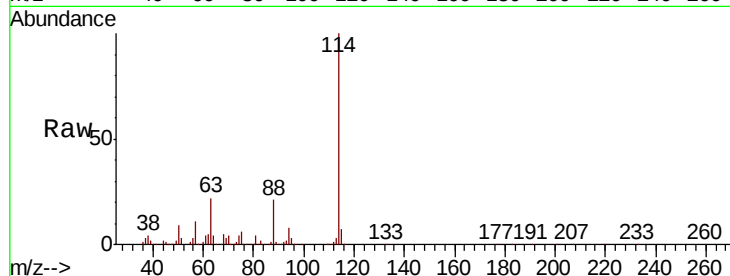
Tot Ion:114 Resp: 494200

Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.8

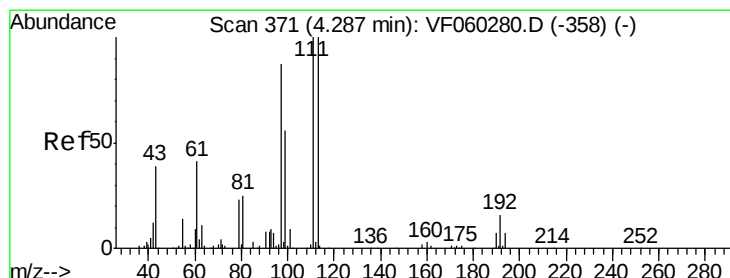
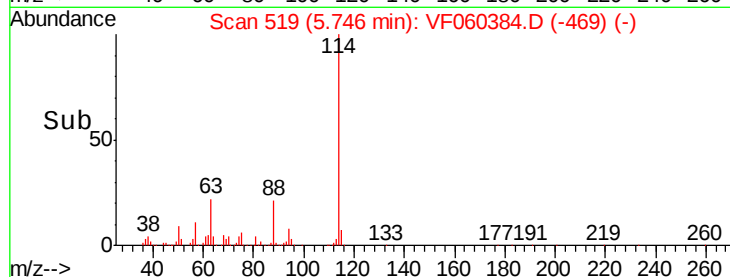
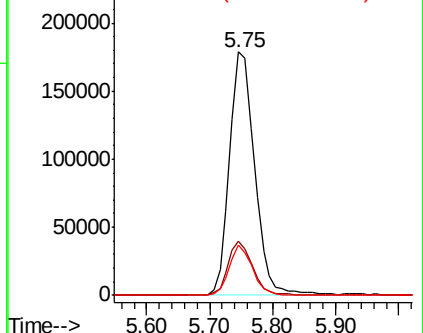
88 20.7 0.0 41.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 55.377 ug/l

RT: 4.28 min Scan# 370

Delta R.T. -0.01 min

Lab File: VF060384.D

Acq: 28 Sep 2018 23:08

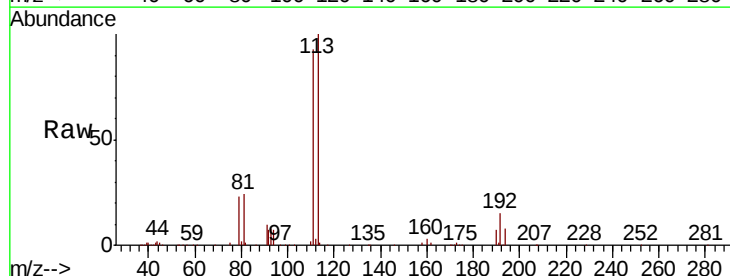
Tgt Ion:113 Resp: 243958

Ion Ratio Lower Upper

113 100

111 92.9 79.6 119.4

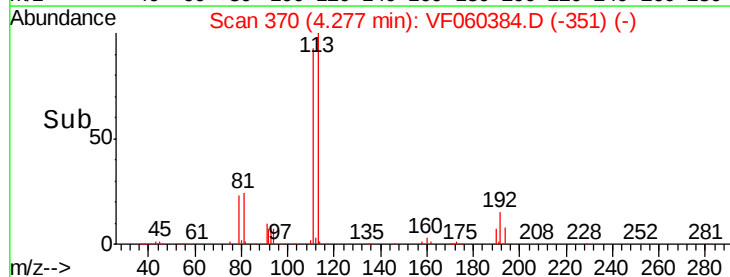
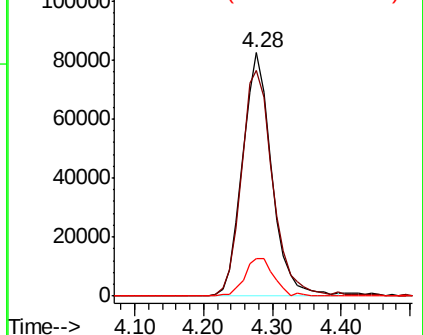
192 15.3 13.0 19.6

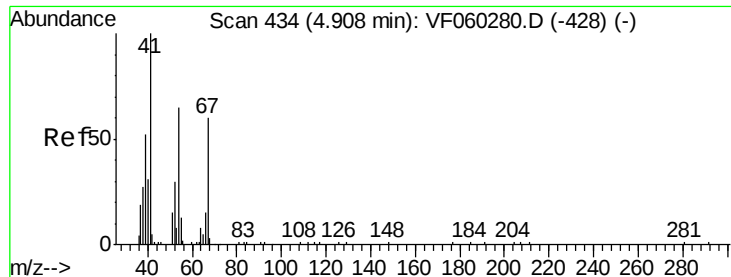


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

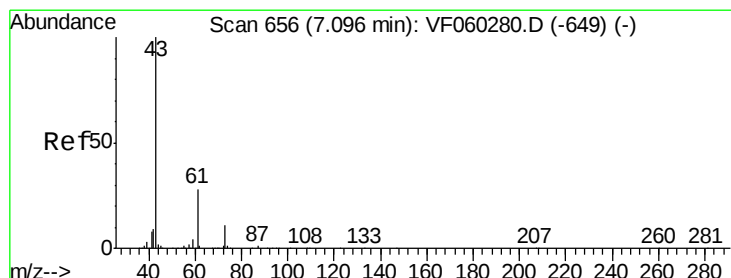
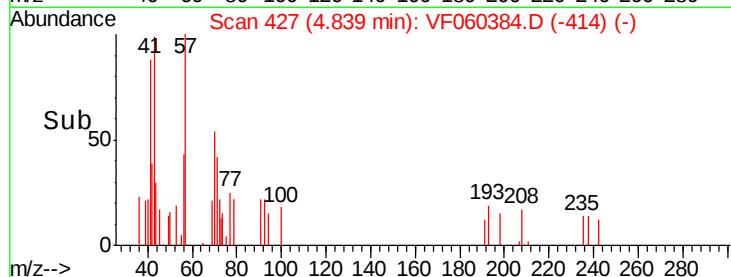
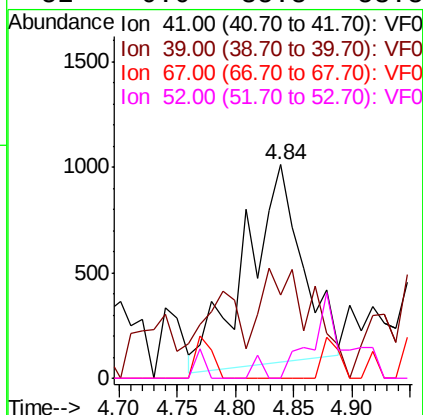
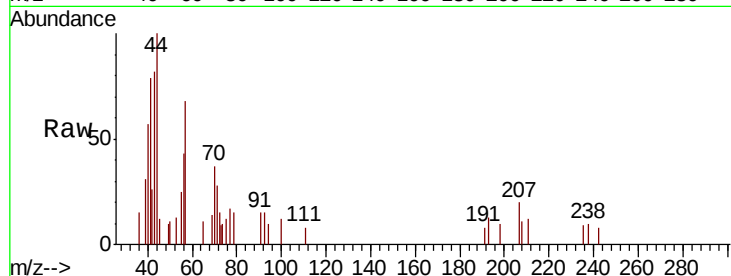




#41
Methacrylonitrile
Concen: 2.236 ug/l
RT: 4.84 min Scan# 427
Delta R.T. -0.07 min
Lab File: VF060384.D
Acq: 28 Sep 2018 23:08

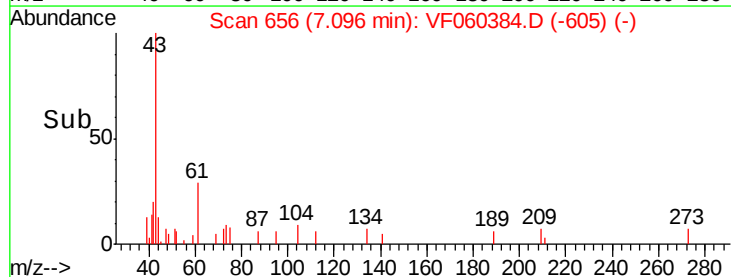
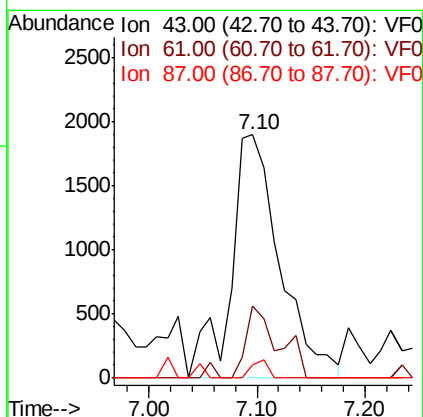
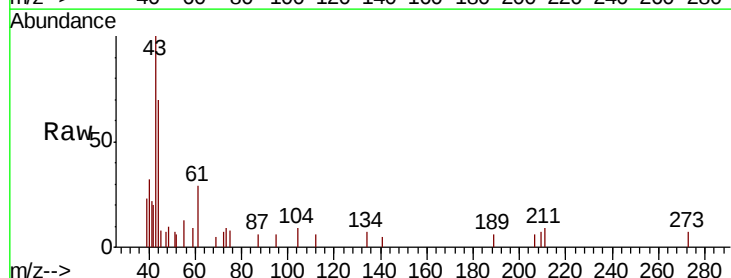
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5

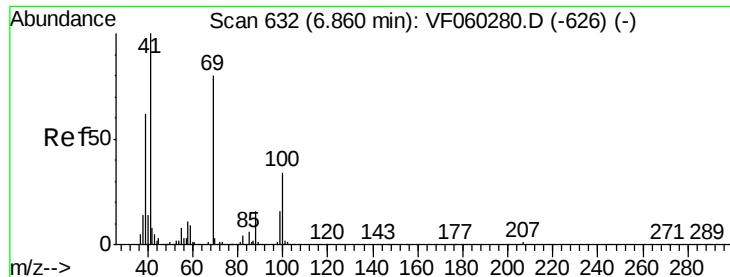
Tot Ion:	41	Resp:	3165
Ion	Ratio	Lower	Upper
41	100		
39	38.8	49.1	73.7#
67	0.0	48.2	72.4#
52	0.0	35.8	53.8#



#43
Isopropyl Acetate
Concen: 1.913 ug/l
RT: 7.10 min Scan# 656
Delta R.T. -0.00 min
Lab File: VF060384.D
Acq: 28 Sep 2018 23:08

Tgt Ion:	43	Resp:	6007
Ion	Ratio	Lower	Upper
43	100		
61	29.3	22.4	33.6
87	5.5	0.6	0.8#

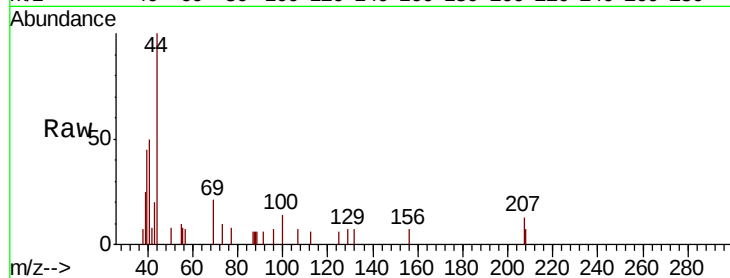




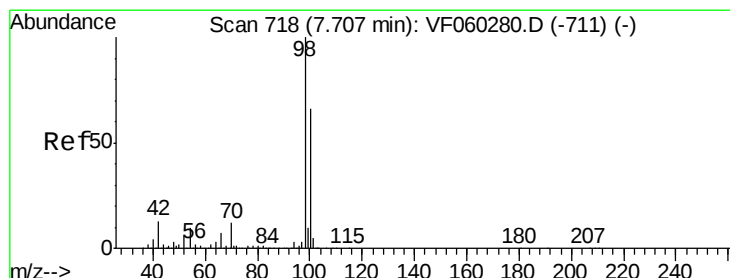
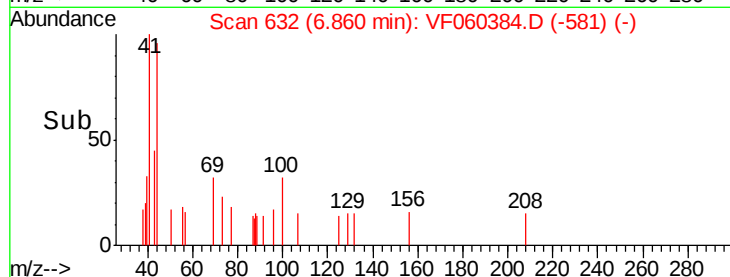
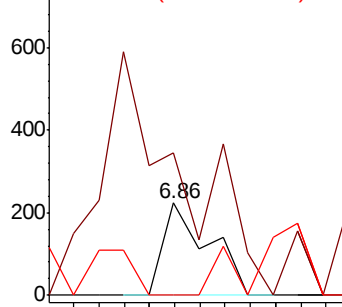
#49
 1,4-Dioxane
 Concen: 14.320 ug/l
 RT: 6.86 min Scan# 632
 Delta R.T. -0.00 min
 Lab File: VF060384.D
 Acq: 28 Sep 2018 23:08

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-5

Tot Ion: 88 Resp: 282
 Ion Ratio Lower Upper
 88 100
 43 154.7 40.2 60.4#
 58 0.0 56.7 85.1#

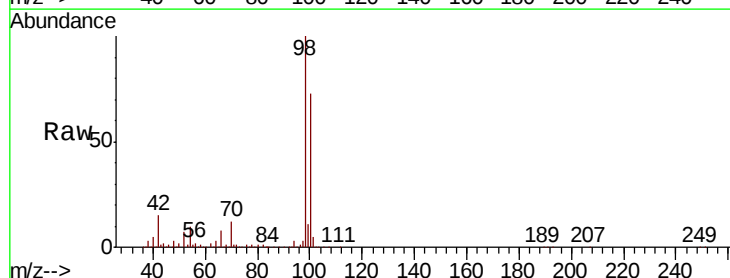


Abundance Ion 88.00 (87.70 to 88.70): VF0
 Ion 43.00 (42.70 to 43.70): VF0
 Ion 58.00 (57.70 to 58.70): VF0

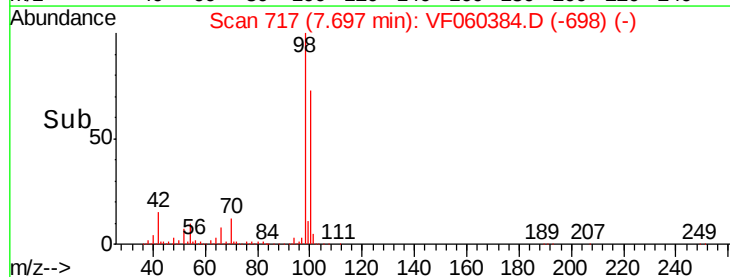
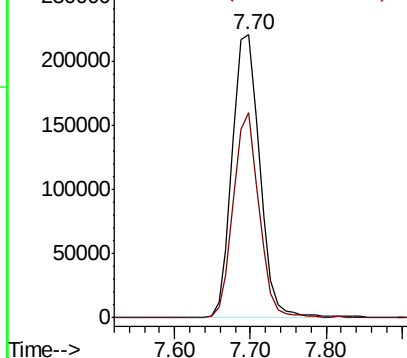


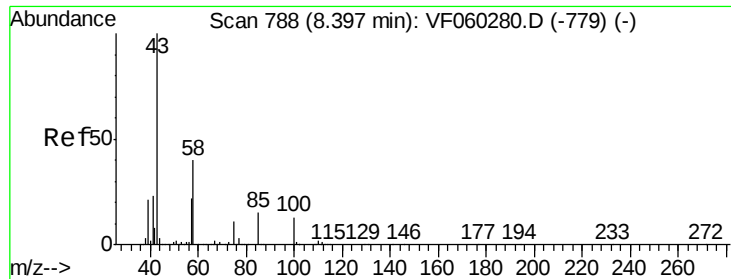
#50
 Toluene-d8
 Concen: 48.391 ug/l
 RT: 7.70 min Scan# 717
 Delta R.T. -0.01 min
 Lab File: VF060384.D
 Acq: 28 Sep 2018 23:08

Tgt Ion: 98 Resp: 555176
 Ion Ratio Lower Upper
 98 100
 100 72.7 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0
 Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 9.283 ug/l

RT: 8.40 min Scan# 788

Delta R.T. -0.00 min

Lab File: VF060384.D

Acq: 28 Sep 2018 23:08

Instrument :

MSVOA_F

ClientSampleId :

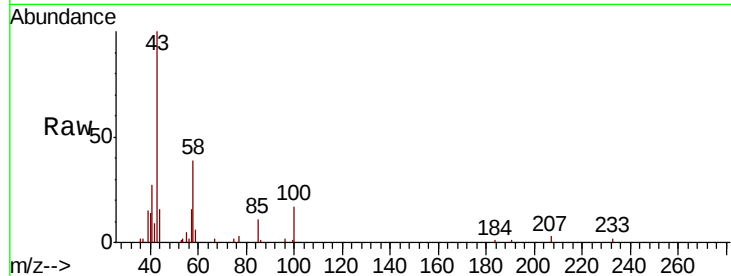
HC-SOIL-5

Tot Ion: 43 Resp: 22467

Ion Ratio Lower Upper

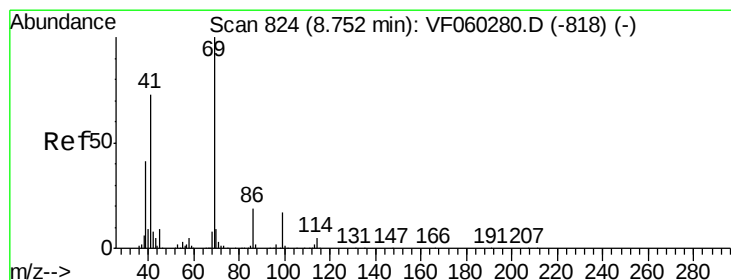
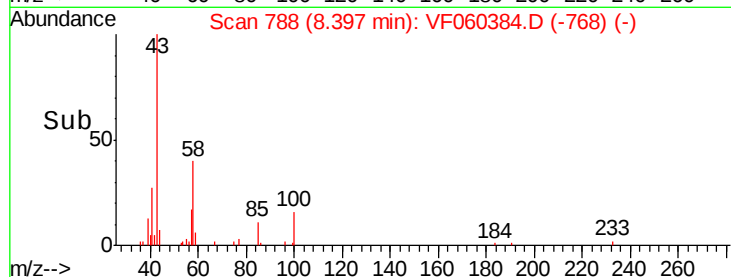
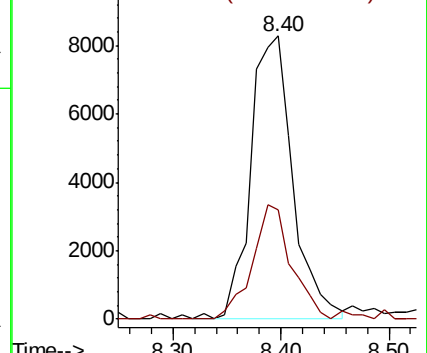
43 100

58 38.8 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#56

Ethyl methacrylate

Concen: 2.022 ug/l

RT: 8.74 min Scan# 823

Delta R.T. -0.01 min

Lab File: VF060384.D

Acq: 28 Sep 2018 23:08

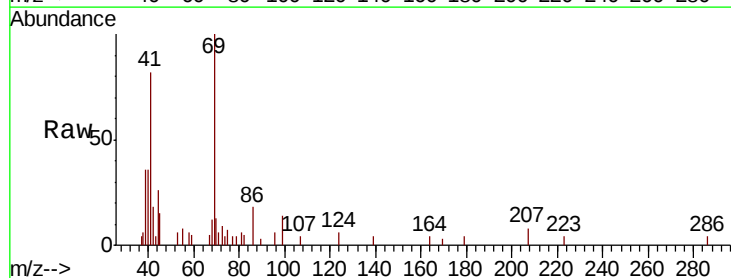
Tgt Ion: 69 Resp: 6554

Ion Ratio Lower Upper

69 100

41 81.8 59.4 89.2

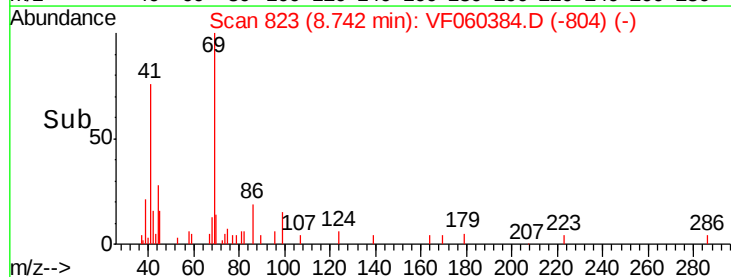
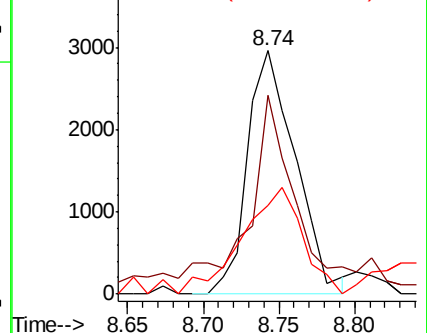
39 36.4 33.5 50.3

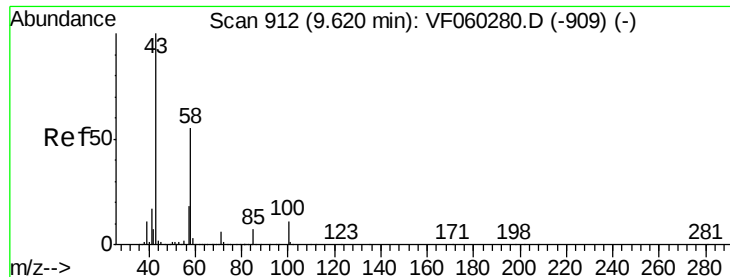


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

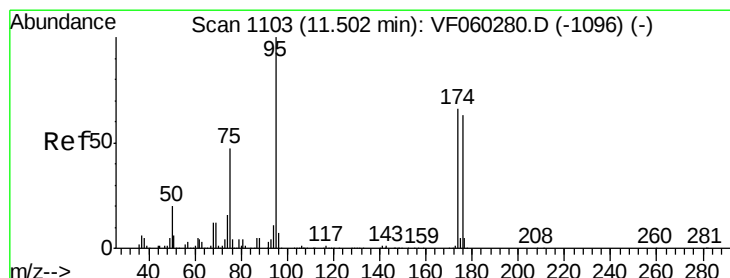
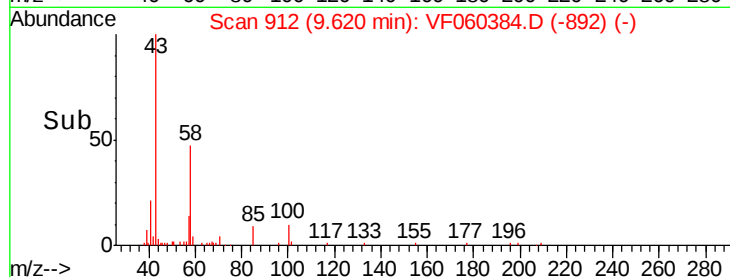
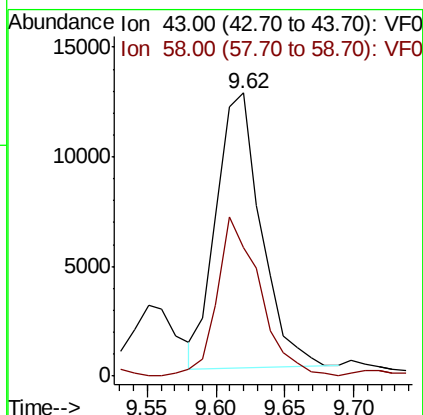
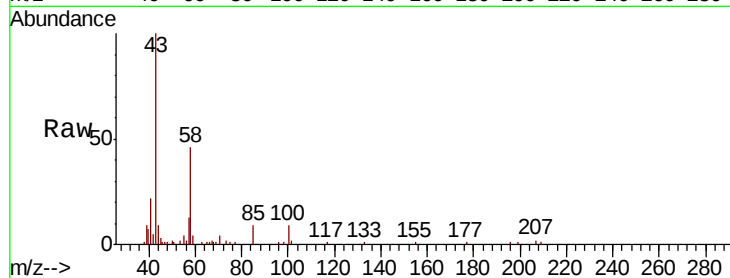




#59
2-Hexanone
Concen: 16.474 ug/l
RT: 9.62 min Scan# 912
Delta R.T. -0.00 min
Lab File: VF060384.D
Acq: 28 Sep 2018 23:08

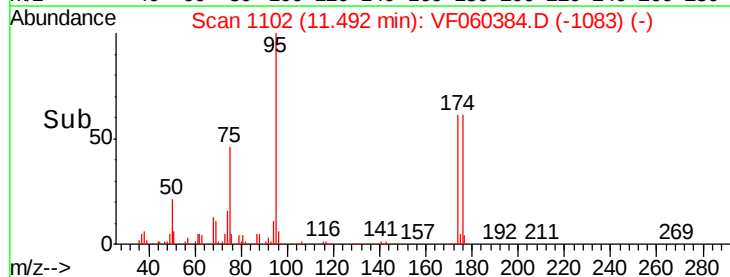
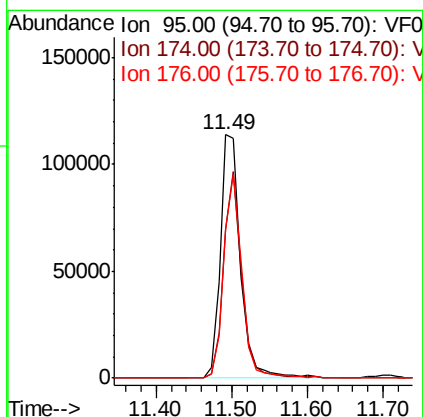
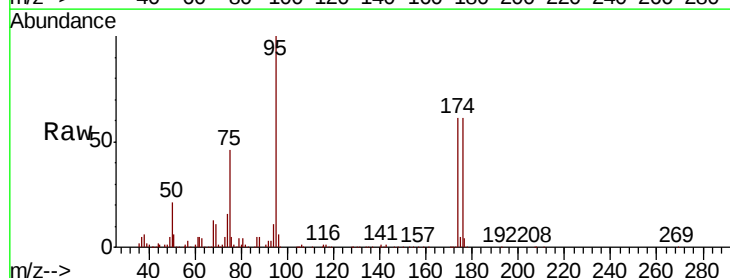
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5

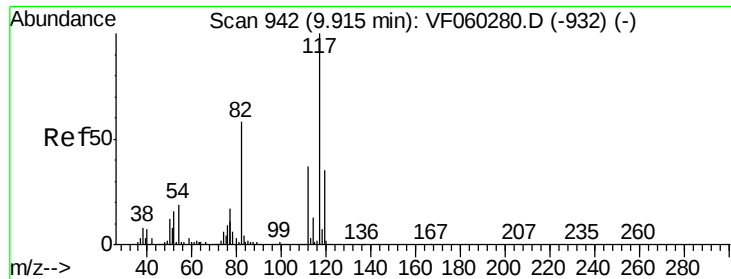
Tot Ion: 43 Resp: 28388
Ion Ratio Lower Upper
43 100
58 45.6 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 42.815 ug/l
RT: 11.49 min Scan# 1102
Delta R.T. -0.01 min
Lab File: VF060384.D
Acq: 28 Sep 2018 23:08

Tgt Ion: 95 Resp: 212334
Ion Ratio Lower Upper
95 100
174 61.3 0.0 131.2
176 61.3 0.0 126.6

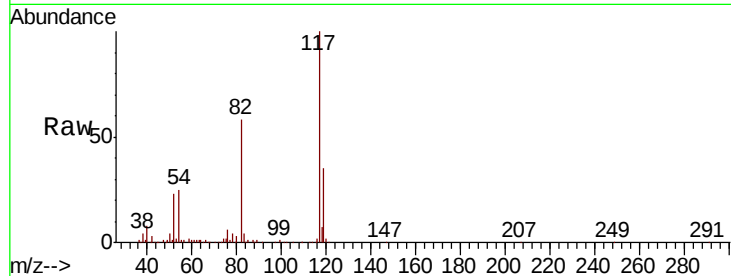




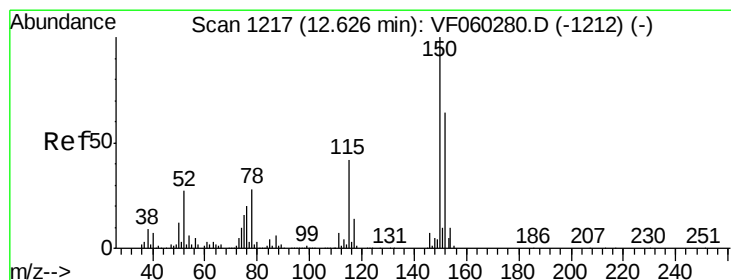
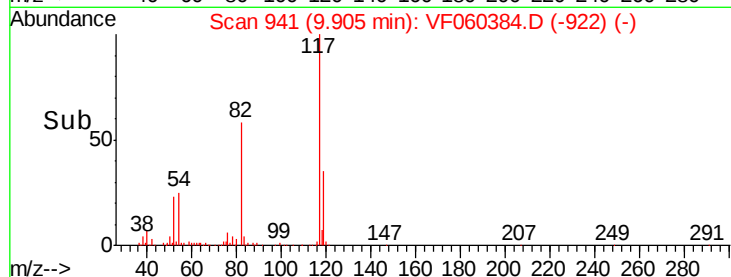
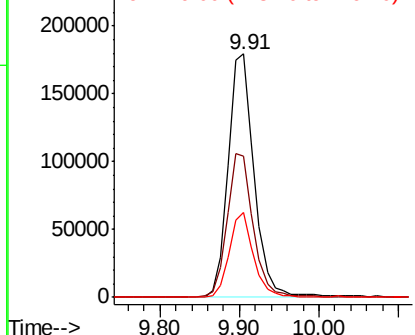
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.91 min Scan# 941
Delta R.T. -0.01 min
Lab File: VF060384.D
Acq: 28 Sep 2018 23:08

Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5

Tot Ion:117 Resp: 411455
Ion Ratio Lower Upper
117 100
82 57.9 46.2 69.2
119 34.9 27.8 41.6

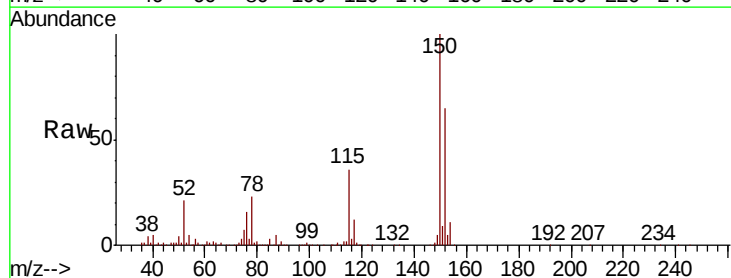


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

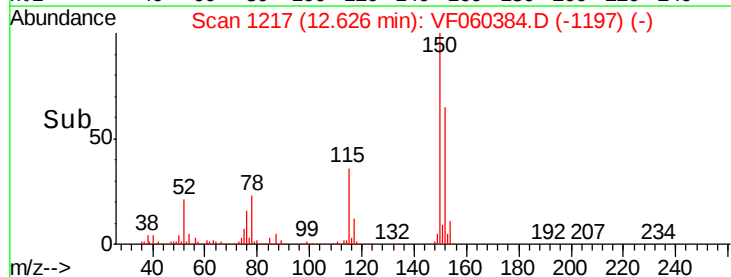
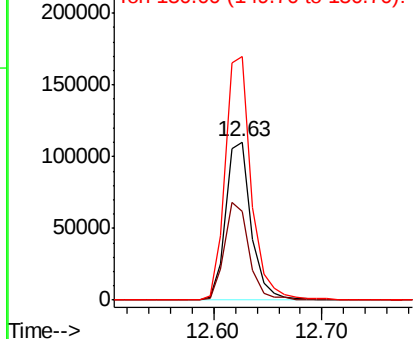


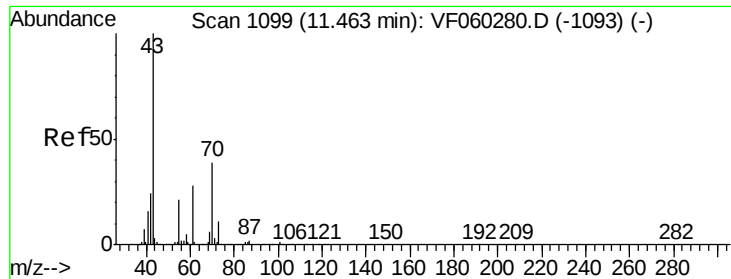
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.63 min Scan# 1217
Delta R.T. -0.00 min
Lab File: VF060384.D
Acq: 28 Sep 2018 23:08

Tgt Ion:152 Resp: 182473
Ion Ratio Lower Upper
152 100
115 56.2 32.6 97.8
150 154.1 0.0 314.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#74

N-amvl acetate

Concen: 4.389 ug/l

RT: 11.45 min Scan# 1098

Delta R.T. -0.01 min

Lab File: VF060384.D

Acq: 28 Sep 2018 23:08

Instrument :

MSVOA_F

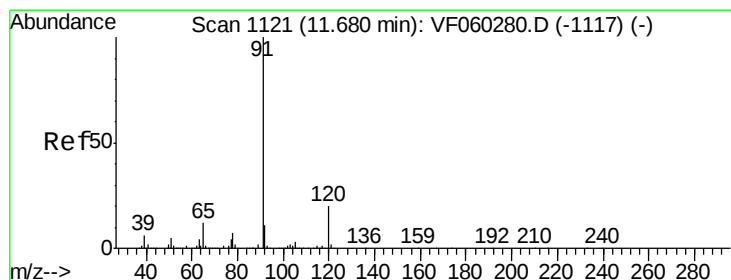
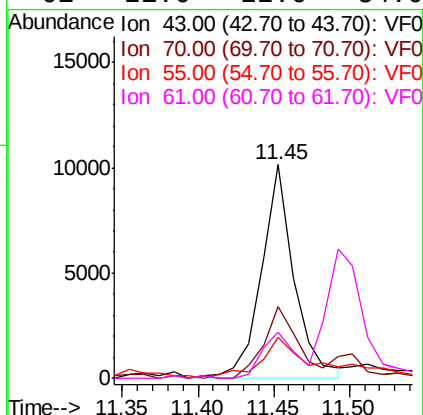
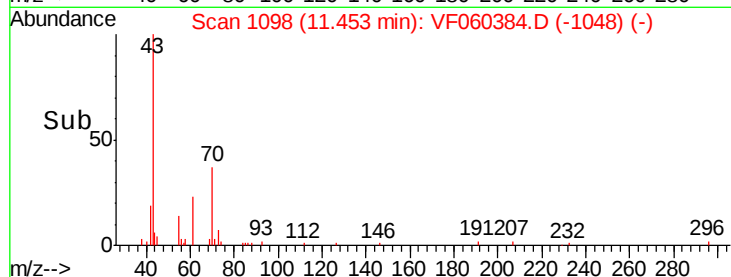
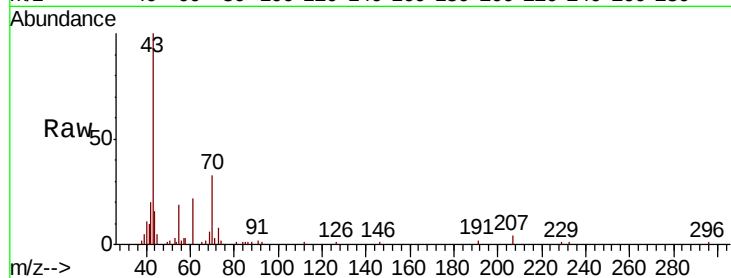
ClientSampleId :

HC-SOIL-5

Tot Ion: 43 Resp: 15330

Ion Ratio Lower Upper

43	100		
70	33.3	31.4	47.2
55	19.0	16.8	25.2
61	21.6	22.6	34.0#



#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1121

Delta R.T. 0.00 min

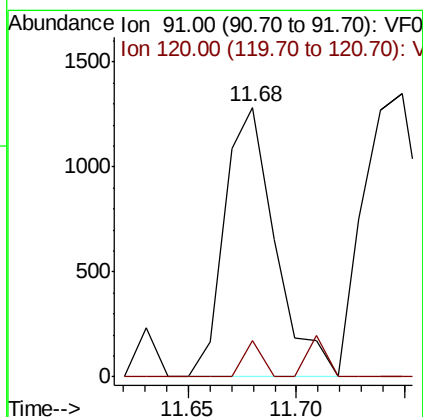
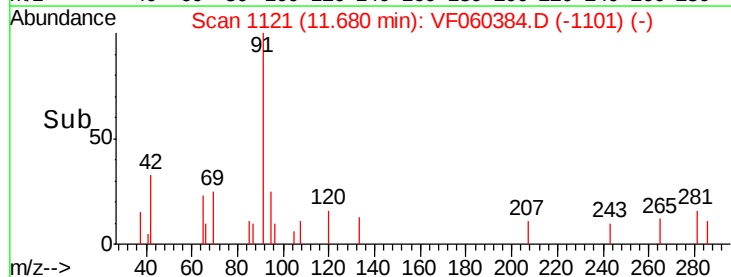
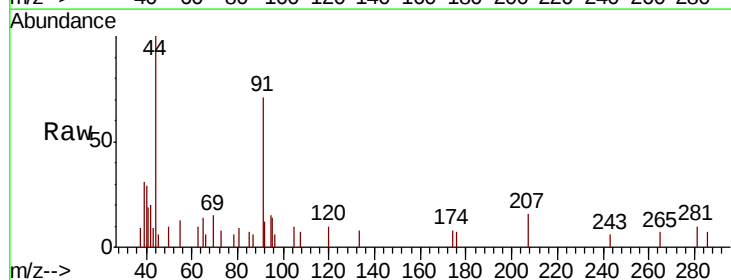
Lab File: VF060384.D

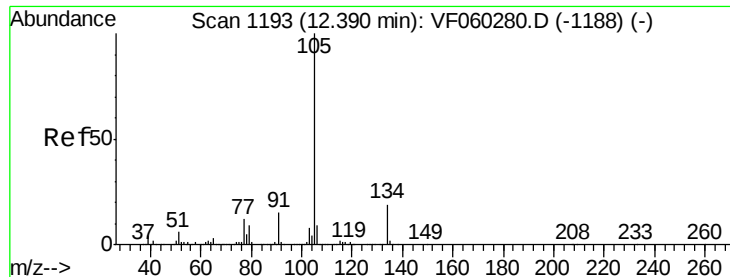
Acq: 28 Sep 2018 23:08

Tgt Ion: 91 Resp: 2103

Ion Ratio Lower Upper

91	100		
120	13.7	10.0	29.8





#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060384.D

Acq: 28 Sep 2018 23:08

Instrument :

MSVOA_F

ClientSampleId :

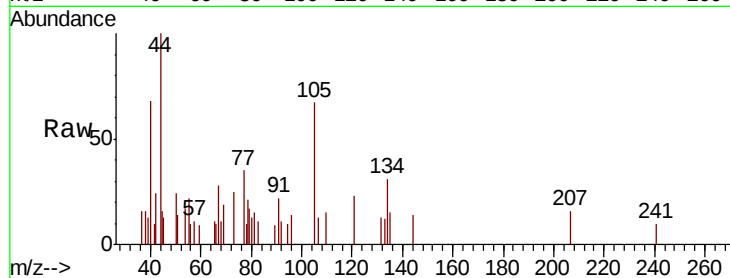
HC-SOIL-5

Tot Ion:105 Resp: 1317

Ion Ratio Lower Upper

105 100

134 46.4 9.6 28.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.38

800

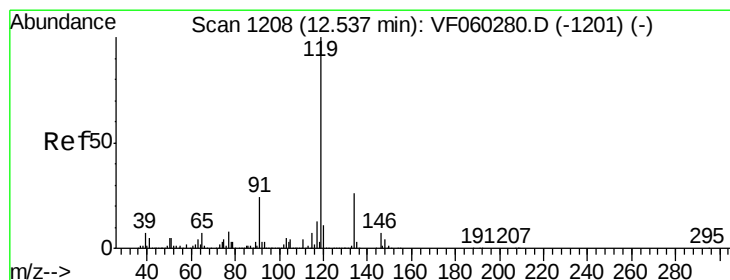
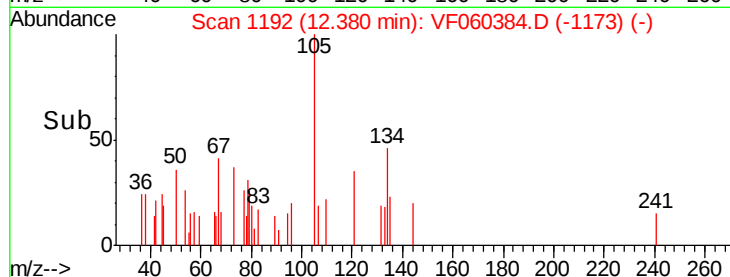
600

400

200

0

Time-->



#86

p-Isopropyltoluene

Concen: Below Cal

RT: 12.53 min Scan# 1207

Delta R.T. -0.01 min

Lab File: VF060384.D

Acq: 28 Sep 2018 23:08

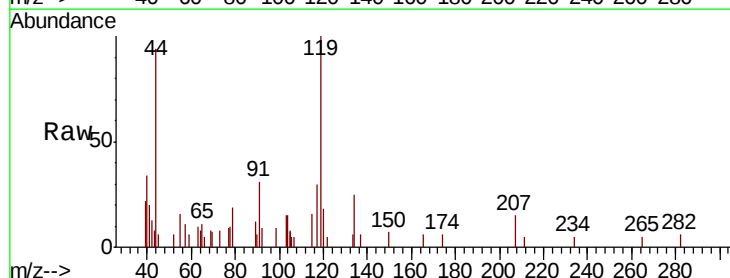
Tgt Ion:119 Resp: 3157

Ion Ratio Lower Upper

119 100

134 25.5 12.9 38.7

91 30.8 11.9 35.7



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

2500

2000

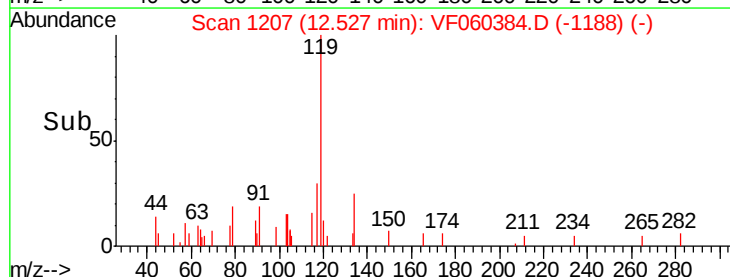
1500

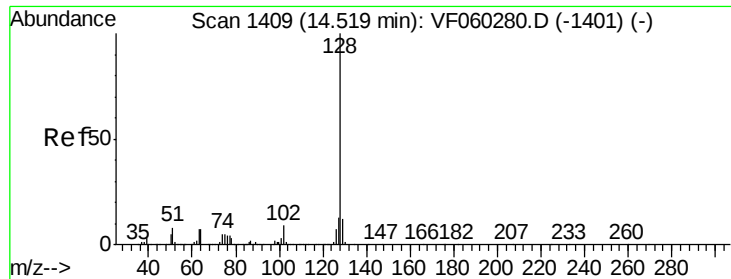
1000

500

0

Time-->

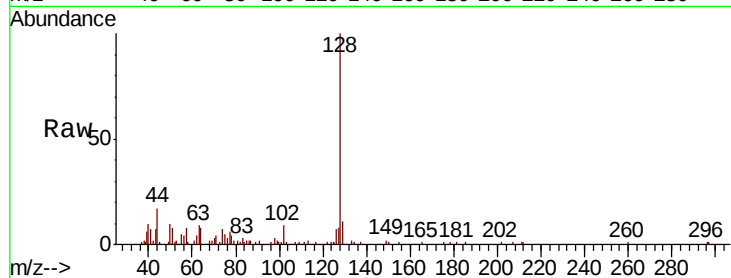




#95
Naphthalene
Concen: 2.839 ug/l
RT: 14.51 min Scan# 1408
Delta R.T. -0.01 min
Lab File: VF060384.D
Acq: 28 Sep 2018 23:08

Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5

Tot Ion	Ratio	Lower	Upper
128	100		
127	8.3	10.1	15.1#
129	10.5	9.8	14.8



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

