

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100218\
 Data File : VF060409.D
 Acq On : 2 Oct 2018 18:27
 Operator : VA/AP
 Sample : J5170-25RE
 Misc : 7.33/5mL/MSVOA F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-5RE

Quant Time: Oct 03 02:35:25 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	0.00	168	0	0.00	ug/l	-5.01
34) 1,4-Difluorobenzene	5.79	114	66	50.00	ug/l	0.04
63) Chlorobenzene-d5	9.95	117	63	50.00	ug/l	0.05
72) 1,4-Dichlorobenzene-d4	12.53	152	61	50.00	ug/l	-0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.96	65	66	0.00	ug/l	-0.03
Spiked Amount	50.000		Recovery	=	0.00%	
35) Dibromofluoromethane	4.24	113	66	106.45	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	212.90%	
50) Toluene-d8	7.79	98	74	48.46	ug/l	0.10
Spiked Amount	50.000		Recovery	=	96.92%	
62) 4-Bromofluorobenzene	11.46	95	68	97.53	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	195.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
36) 1,1-Dichloropropene	4.48	75	65	79.880	ug/l #	45
37) Ethyl Acetate	4.32	43	298	956.327	ug/l #	1
38) Carbon Tetrachloride	4.17	117	67	67.643	ug/l #	13
39) Methylcyclohexane	5.61	83	131	164.215	ug/l #	10
40) Benzene	4.79	78	63	38.999	ug/l #	1
41) Methacrylonitrile	4.97	41	375	2269.677	ug/l #	20
42) 1,2-Dichloroethane	5.09	62	62	80.449	ug/l	83
43) Isopropyl Acetate	7.15	43	1048	2782.999	ug/l #	44
44) Trichloroethene	5.68	130	76	146.626	ug/l	1
45) 1,2-Dichloropropane	6.34	63	76	176.662	ug/l #	46
46) Dibromomethane	6.29	93	70	202.381	ug/l #	9
47) Bromodichloromethane	6.52	83	102	119.071	ug/l #	23
48) Methyl methacrylate	6.90	41	616	2278.815	ug/l #	42
49) 1,4-Dioxane	6.63	88	84	36040.334	ug/l #	25
51) 4-Methyl-2-Pentanone	8.44	43	533	1988.355	ug/l #	39
52) Toluene	7.88	92	82	74.734	ug/l #	1
53) t-1,3-Dichloropropene	8.43	75	82	122.145	ug/l #	44
54) cis-1,3-Dichloropropene	7.47	75	66	84.119	ug/l #	27
55) 1,1,2-Trichloroethane	8.64	97	125	359.415	ug/l #	18
56) Ethyl methacrylate	8.80	69	102	258.097	ug/l #	54
57) 1,3-Dichloropropane	8.96	76	70	118.974	ug/l #	1
58) 2-Chloroethyl Vinyl ether	7.86	63	80	1981.780	ug/l	100
59) 2-Hexanone	9.74	43	434	2207.316	ug/l #	27
60) Dibromochloromethane	9.04	129	75	143.227	ug/l #	11
61) 1,2-Dibromoethane	9.23	107	77	202.336	ug/l #	4
65) Chlorobenzene	10.02	112	107	82.680	ug/l #	40
66) 1,1,1,2-Tetrachloroethane	10.12	131	147	260.146	ug/l #	9
67) Ethyl Benzene	10.14	91	89	36.169	ug/l #	47
68) m/p-Xylenes	10.25	106	63	74.478	ug/l #	1
69) o-Xylene	10.79	106	128	138.824	ug/l	36
70) Styrene	10.90	104	94	71.674	ug/l #	29
73) Isopropylbenzene	11.32	105	60	12.492	ug/l #	51
74) N-amyl acetate	11.47	43	447	405.512	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	11.66	83	173	197.566	ug/l #	78

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100218\
 Data File : VF060409.D
 Acq On : 2 Oct 2018 18:27
 Operator : VA/AP
 Sample : J5170-25RE
 Misc : 7.33/5mL/MSVOA F/SOIL
 ALS Vial : 44 Sample Multiplier: 1

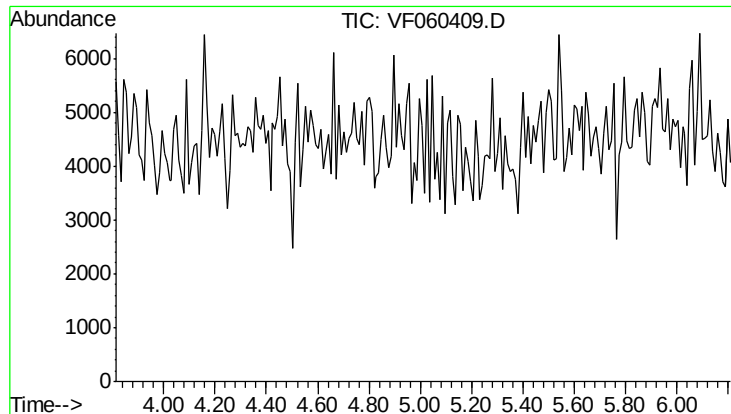
Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-5RE

Quant Time: Oct 03 02:35:25 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)

76) 1,2,3-Trichloropropane	11.88	75	212	328.859	ug/l	76
77) Bromobenzene	11.62	156	144	134.124	ug/l #	1
78) n-propylbenzene	11.67	91	123	21.124	ug/l #	55
79) 2-Chlorotoluene	11.82	91	64	18.790	ug/l #	46
80) 1,3,5-Trimethylbenzene	11.85	105	139	34.063	ug/l #	31
81) trans-1,4-Dichloro-2-buten	11.98	75	181	633.393	ug/l #	15
82) 4-Chlorotoluene	11.96	91	64	18.365	ug/l #	43
83) tert-Butylbenzene	12.15	119	172	42.734	ug/l #	25
84) 1,2,4-Trimethylbenzene	12.25	105	116	28.664	ug/l #	30
85) sec-Butylbenzene	12.39	105	62	11.160	ug/l #	58
86) p-Isopropyltoluene	12.46	119	73	16.084	ug/l #	49
89) n-Butylbenzene	12.86	91	65	13.534	ug/l #	28
90) Hexachloroethane	13.00	117	248	211.410	ug/l #	27
91) 1,2-Dichlorobenzene	13.01	146	84	43.394	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.67	75	63	371.120	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.19	180	63	43.543	ug/l #	10
95) Naphthalene	14.51	128	73	28.219	ug/l #	70
96) 1,2,3-Trichlorobenzene	14.64	180	123	90.690	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.01 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Tot Ion: 168

Sig Exp Ratio

168 100

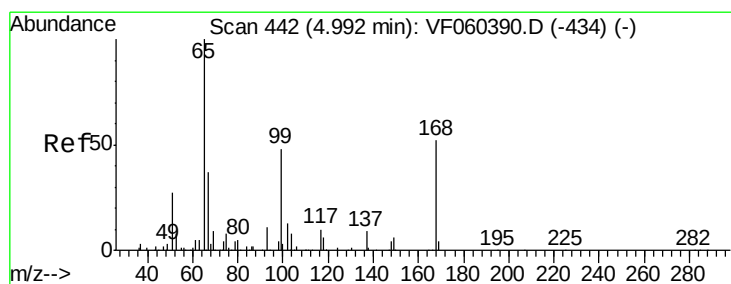
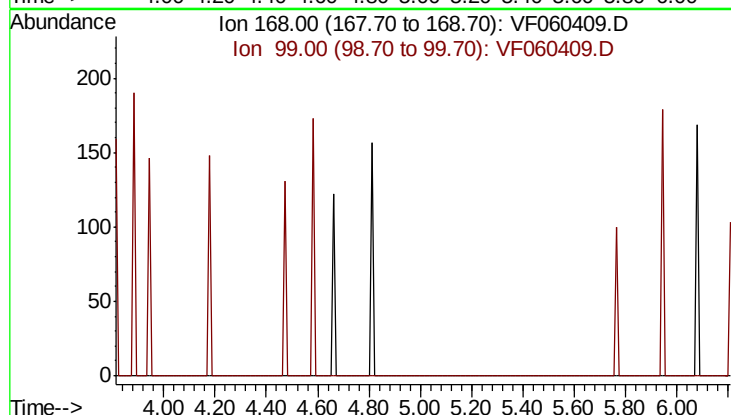
99 81.6

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-5RE



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 4.96 min Scan# 439

Delta R.T. -0.03 min

Lab File: VF060409.D

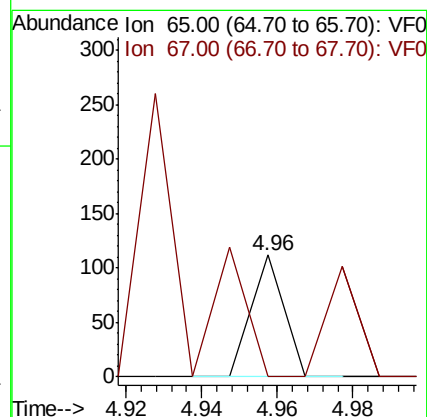
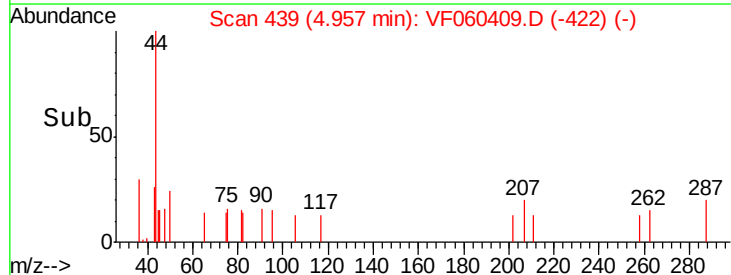
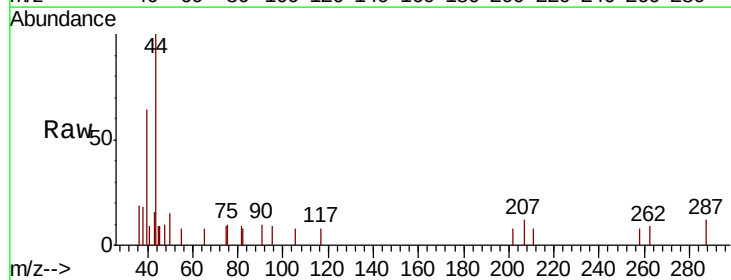
Acq: 2 Oct 2018 18:27

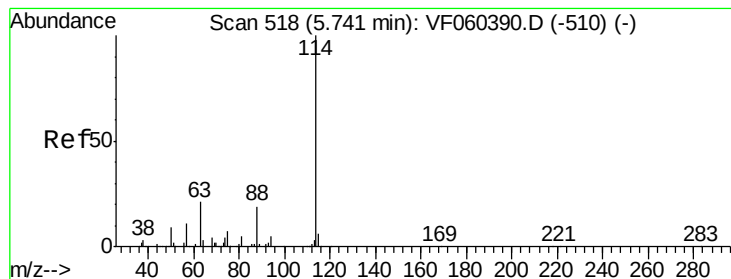
Tgt Ion: 65 Resp: 66

Ion Ratio Lower Upper

65 100

67 0.0 0.0 89.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.79 min Scan# 523

Delta R.T. 0.04 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-5RE

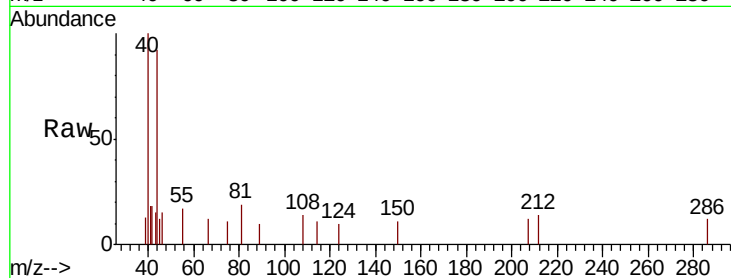
Tot Ion:114 Resp: 66

Ion Ratio Lower Upper

114 100

63 0.0 0.0 42.2

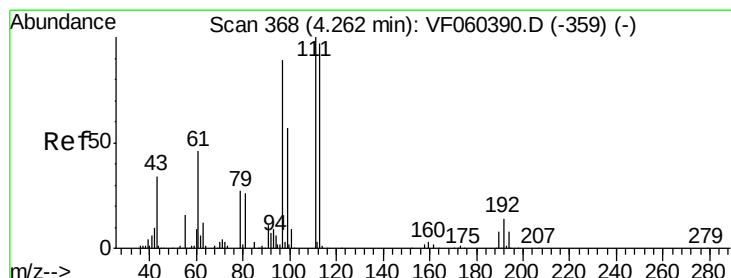
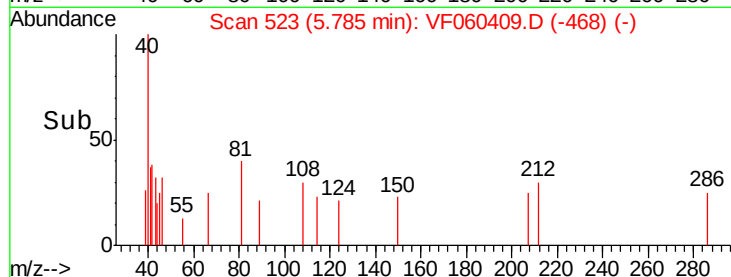
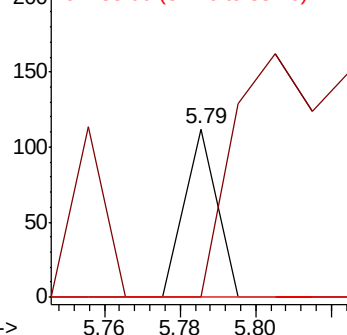
88 0.0 0.0 38.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 106.447 ug/l

RT: 4.24 min Scan# 366

Delta R.T. -0.02 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

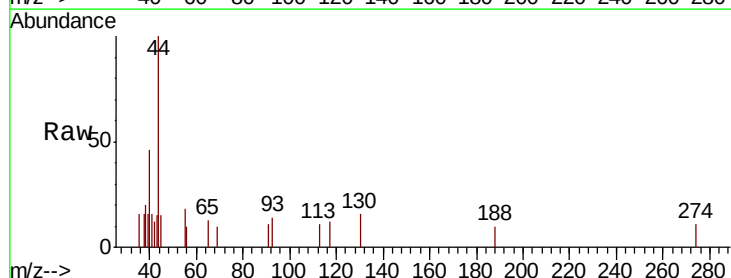
Tgt Ion:113 Resp: 66

Ion Ratio Lower Upper

113 100

111 0.0 82.3 123.5#

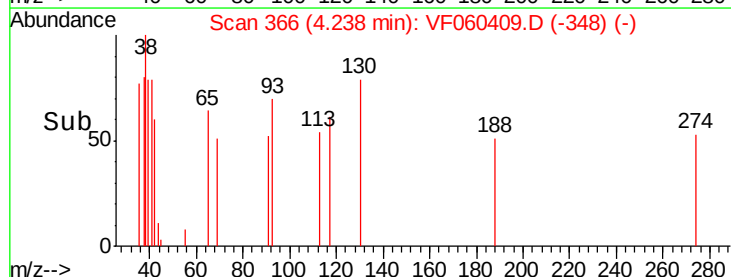
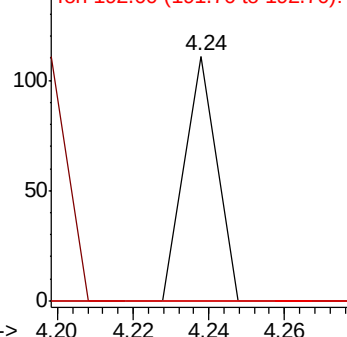
192 0.0 11.8 17.6#

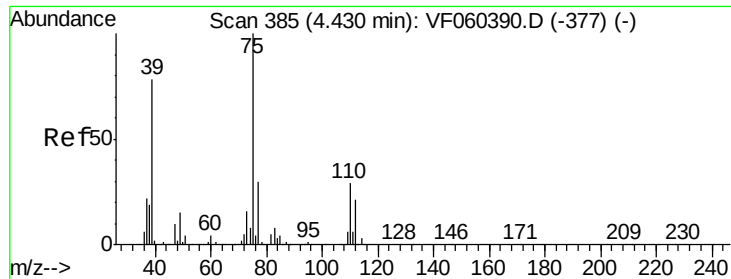


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#36

1,1-Dichloropropene

Concen: 79.880 ug/l

RT: 4.48 min Scan# 391

Delta R.T. 0.05 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-5RE

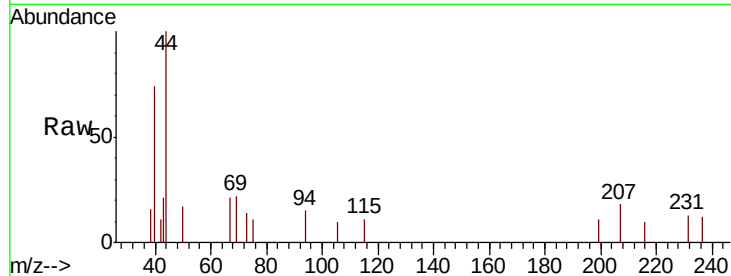
Tot Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

110 0.0 14.5 43.6#

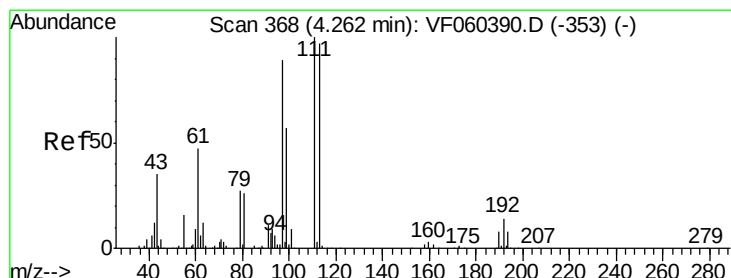
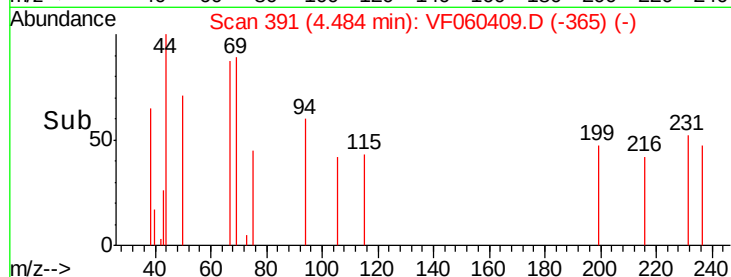
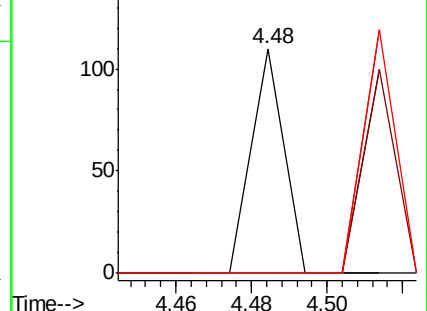
77 0.0 24.3 36.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0



#37

Ethyl Acetate

Concen: 956.327 ug/l

RT: 4.32 min Scan# 374

Delta R.T. 0.05 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

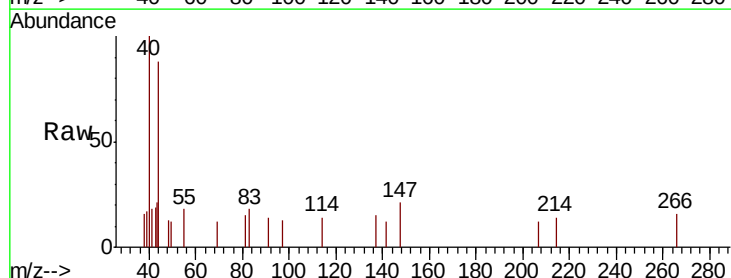
Tgt Ion: 43 Resp: 298

Ion Ratio Lower Upper

43 100

61 0.0 105.1 157.7#

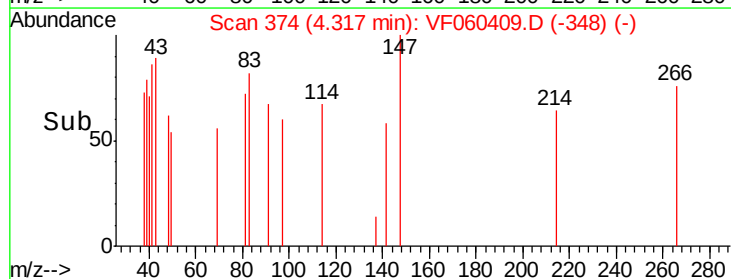
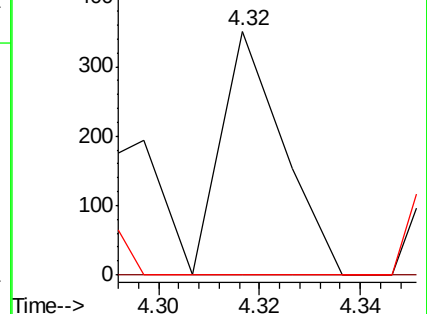
70 0.0 8.0 12.0#

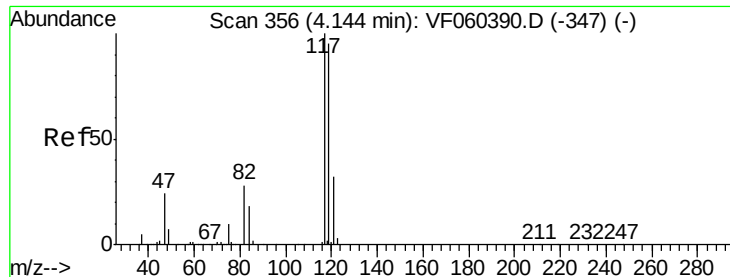


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: 67.643 ug/l

RT: 4.17 min Scan# 359

Delta R.T. 0.02 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-5RE

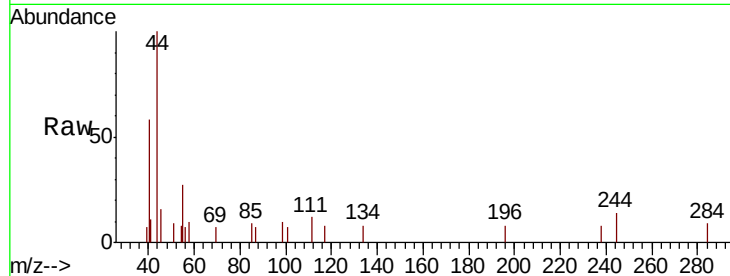
Tot Ion:117 Resp: 67

Ion Ratio Lower Upper

117 100

119 0.0 75.5 113.3#

121 0.0 25.4 38.0#

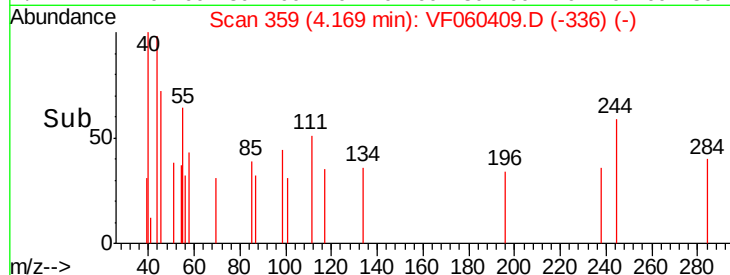


Abundance Ion 117.00 (116.70 to 117.70): V

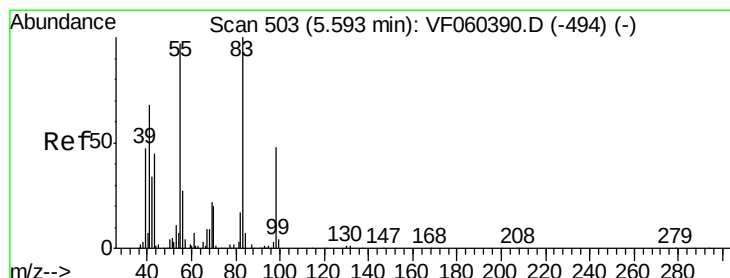
Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V

4.17



Time-->



#39

Methylcyclohexane

Concen: 164.215 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.01 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

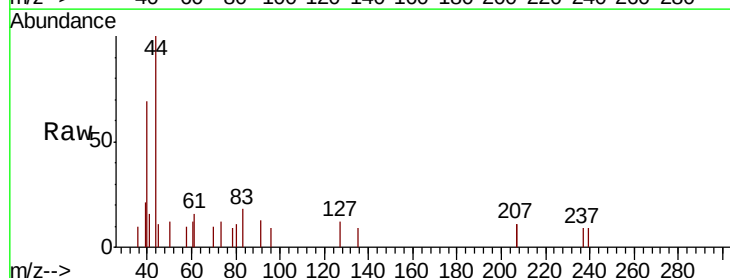
Tgt Ion: 83 Resp: 131

Ion Ratio Lower Upper

83 100

55 0.0 77.5 116.3#

98 0.0 38.7 58.1#

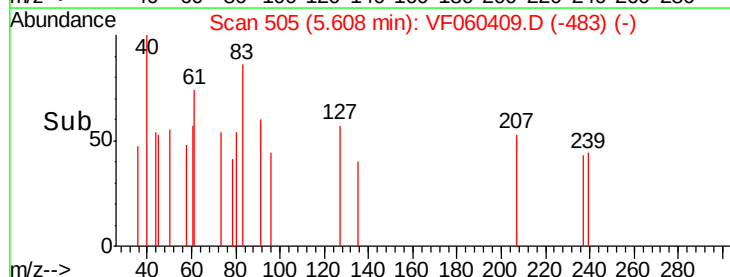


Abundance Ion 83.00 (82.70 to 83.70): VF0

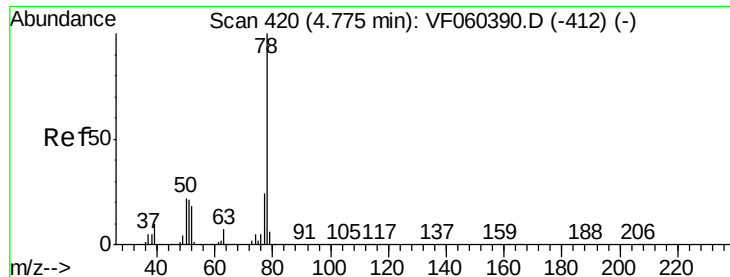
Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

5.61



Time-->



#40

Benzene

Concen: 38.999 ug/l

RT: 4.79 min Scan# 422

Delta R.T. 0.01 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

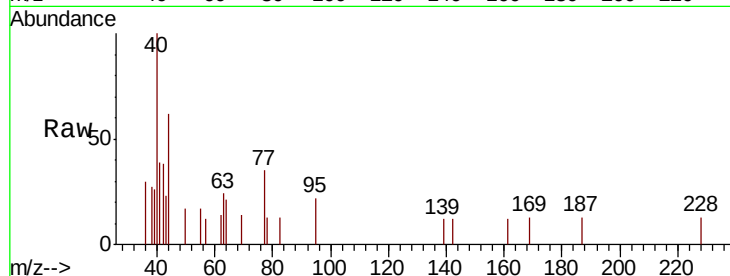
HC-SOIL-5RE

Tot Ion: 78 Resp: 63

Ion Ratio Lower Upper

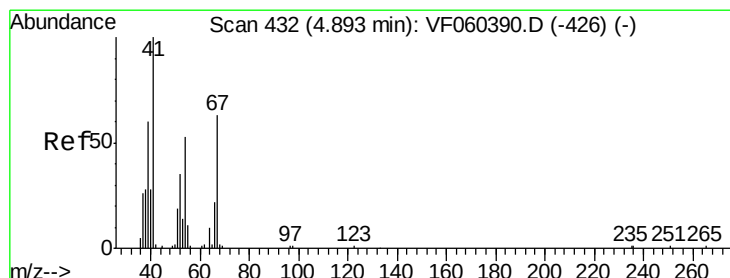
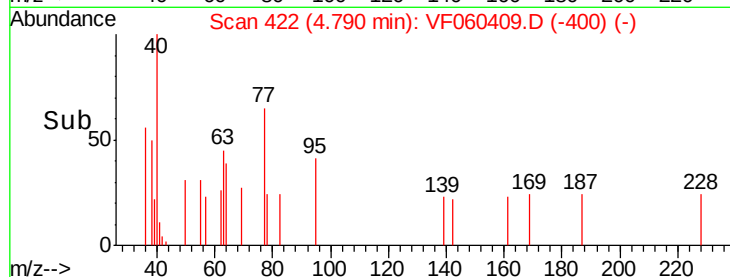
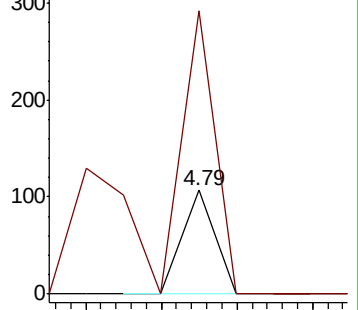
78 100

77 272.9 19.2 28.8#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



#41

Methacrylonitrile

Concen: 2269.677 ug/l

RT: 4.97 min Scan# 440

Delta R.T. 0.07 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Tgt Ion: 41 Resp: 375

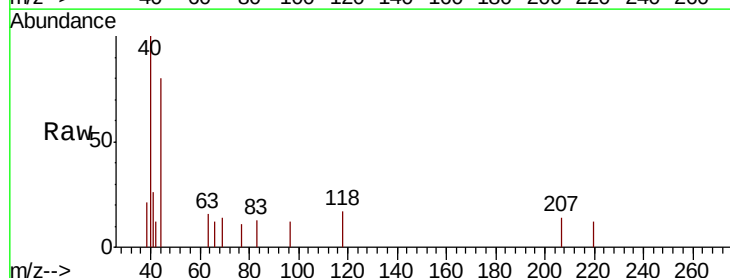
Ion Ratio Lower Upper

41 100

39 0.0 55.0 82.4#

67 0.0 49.6 74.4#

52 0.0 38.8 58.2#

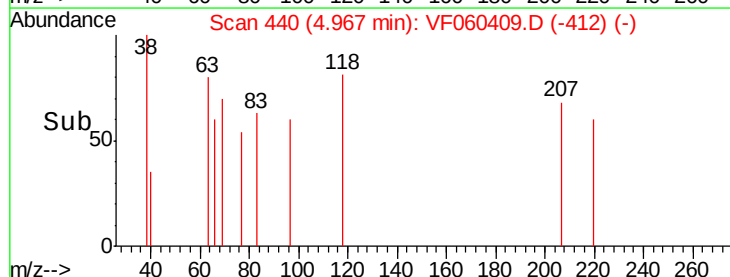
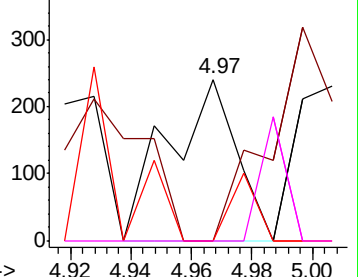


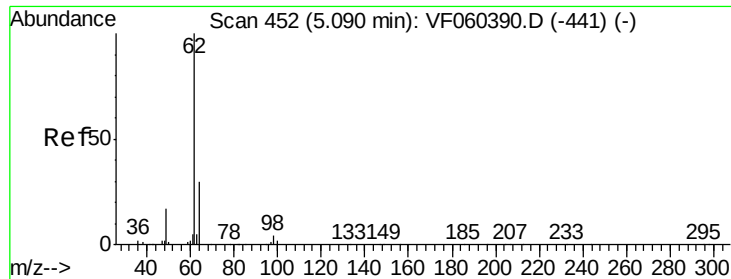
Abundance Ion 41.00 (40.70 to 41.70): VF0

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

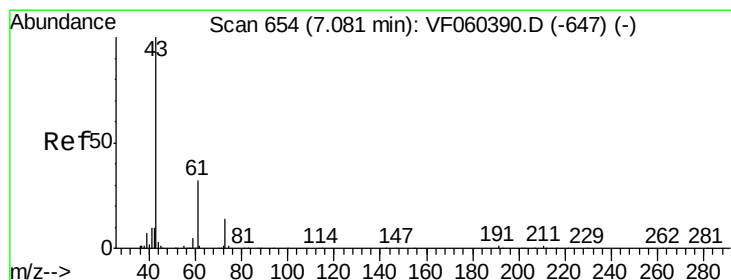
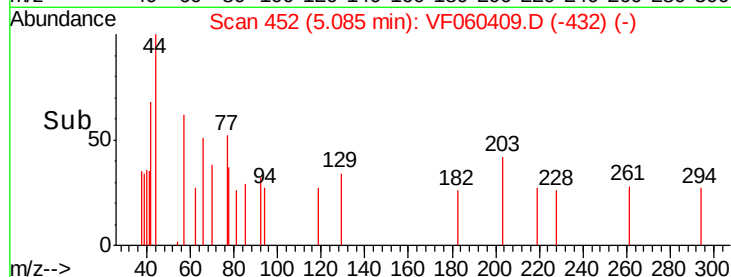
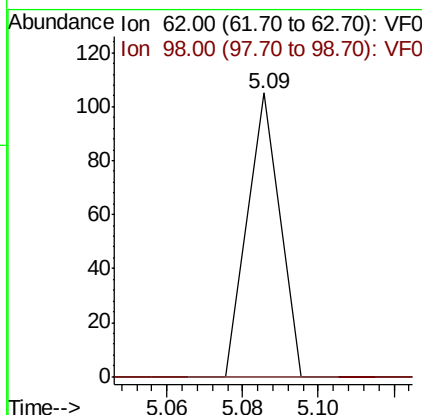
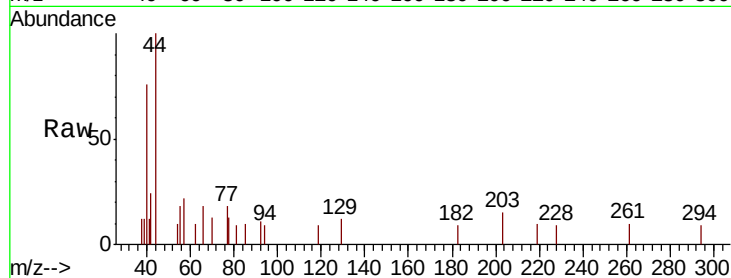




#42
 1,2-Dichloroethane
 Concen: 80.449 ug/l
 RT: 5.09 min Scan# 452
 Delta R.T. -0.00 min
 Lab File: VF060409.D
 Acq: 2 Oct 2018 18:27

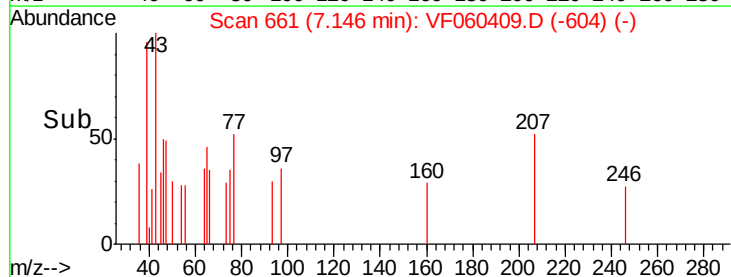
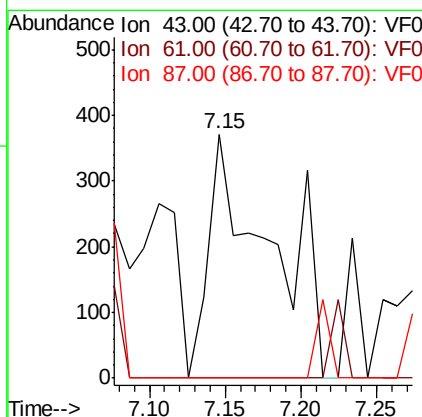
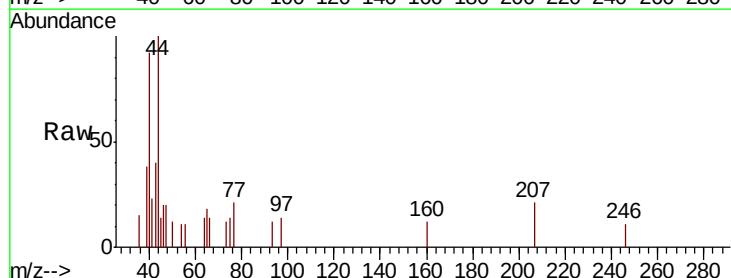
Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-5RE

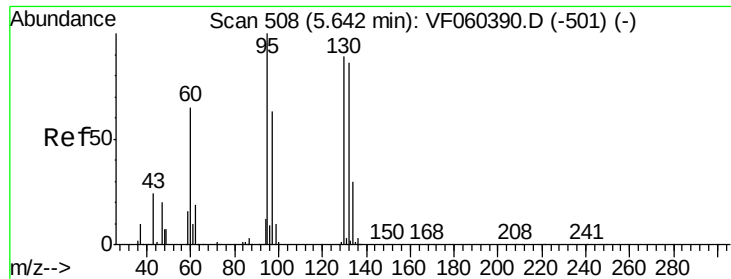
Tot Ion: 62 Resp: 62
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 11.2



#43
 Isopropyl Acetate
 Concen: 2782.999 ug/l
 RT: 7.15 min Scan# 661
 Delta R.T. 0.06 min
 Lab File: VF060409.D
 Acq: 2 Oct 2018 18:27

Tgt Ion: 43 Resp: 1048
 Ion Ratio Lower Upper
 43 100
 61 0.0 25.4 38.2#
 87 0.0 0.3 0.5#





#44

Trichloroethene

Concen: 146.626 ug/l

RT: 5.68 min Scan# 512

Delta R.T. 0.03 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampled :

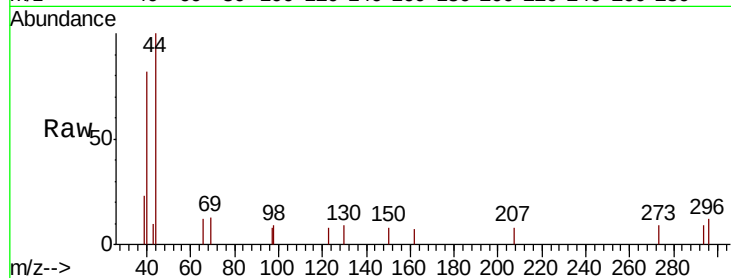
HC-SOIL-5RE

Tot Ion:130 Resp: 76

Ion Ratio Lower Upper

130 100

95 0.0 0.0 224.4



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0

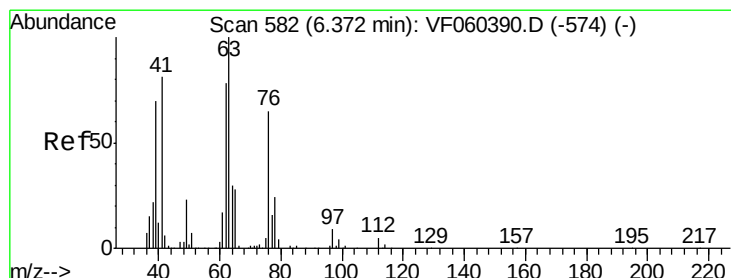
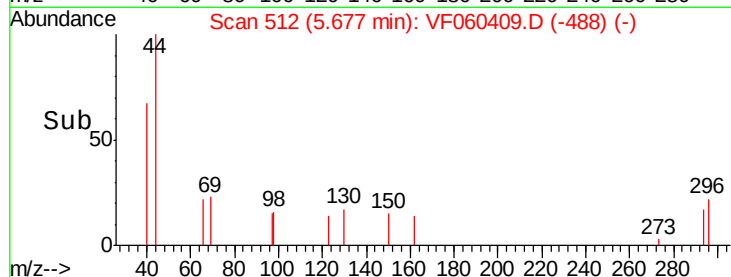
5.68

100

50

0

5.64 5.66 5.68 5.70



#45

1,2-Dichloropropane

Concen: 176.662 ug/l

RT: 6.34 min Scan# 579

Delta R.T. -0.03 min

Lab File: VF060409.D

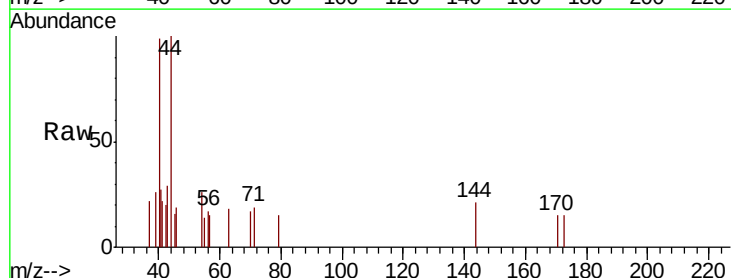
Acq: 2 Oct 2018 18:27

Tgt Ion: 63 Resp: 76

Ion Ratio Lower Upper

63 100

65 0.0 22.7 34.1#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

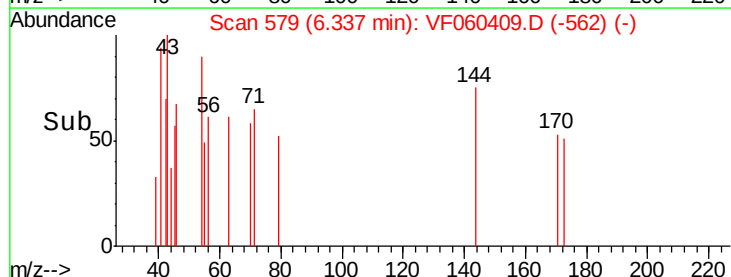
6.34

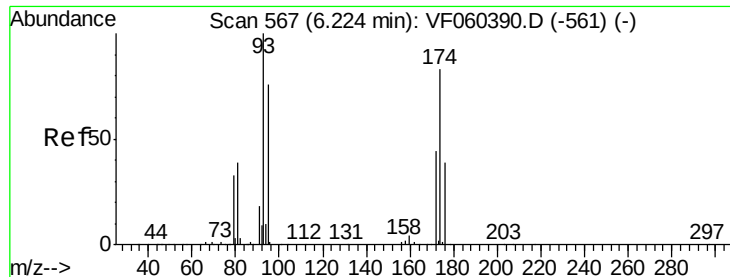
100

50

0

6.32 6.34 6.36





#46

Dibromomethane

Concen: 202.381 ug/l

RT: 6.29 min Scan# 574

Delta R.T. 0.06 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-5RE

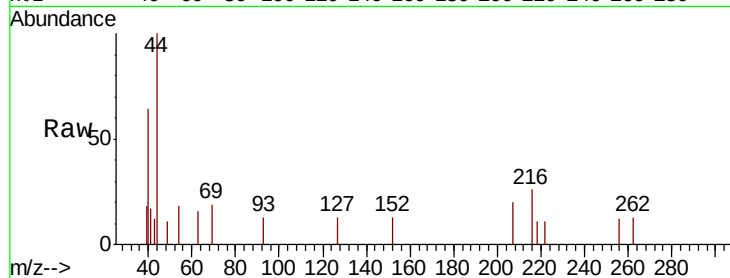
Tot Ion: 93 Resp: 70

Ion Ratio Lower Upper

93 100

95 0.0 61.1 91.7#

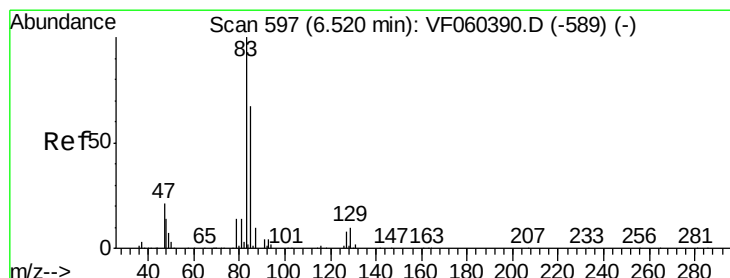
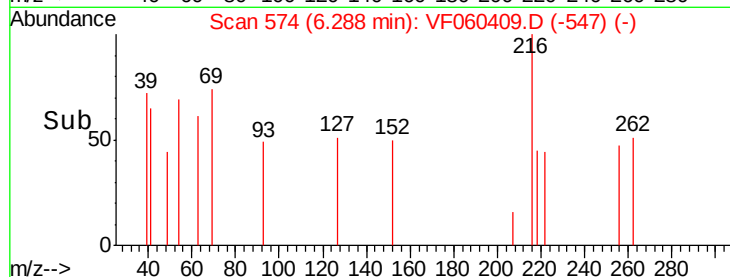
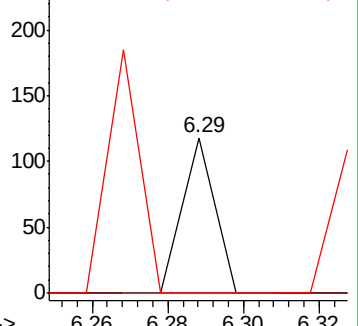
174 0.0 66.7 100.1#



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: 119.071 ug/l

RT: 6.52 min Scan# 598

Delta R.T. 0.01 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

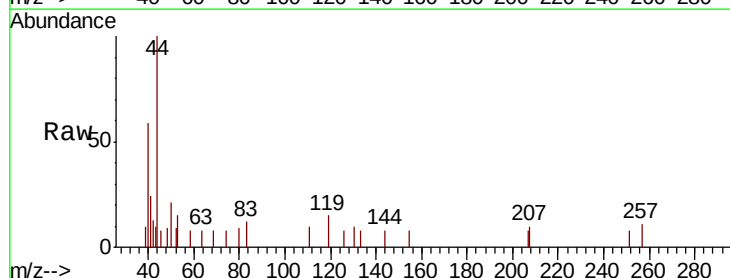
Tgt Ion: 83 Resp: 102

Ion Ratio Lower Upper

83 100

85 0.0 53.2 79.8#

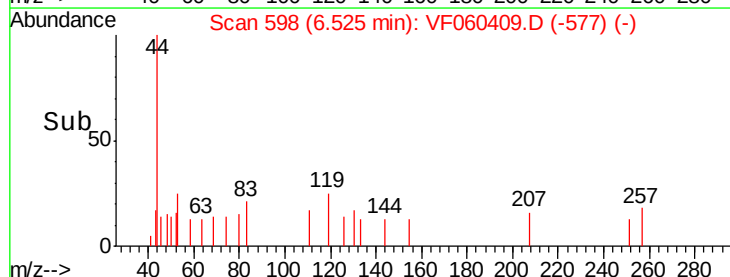
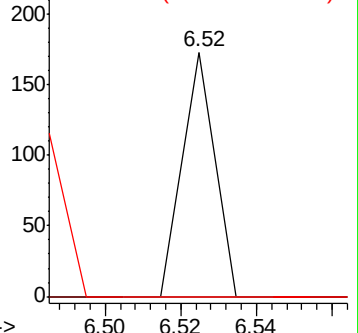
127 0.0 6.6 9.8#

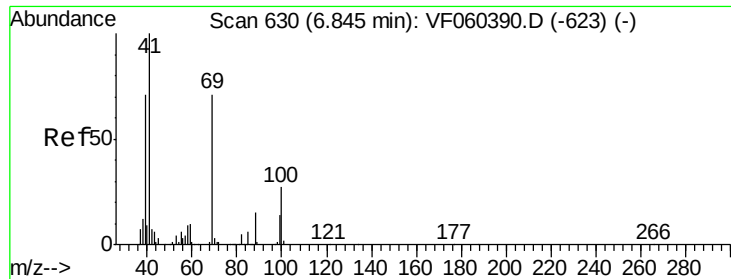


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V

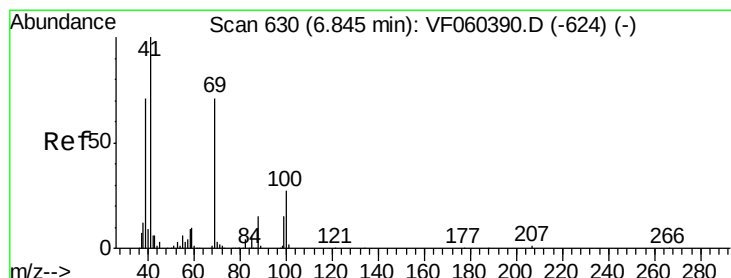
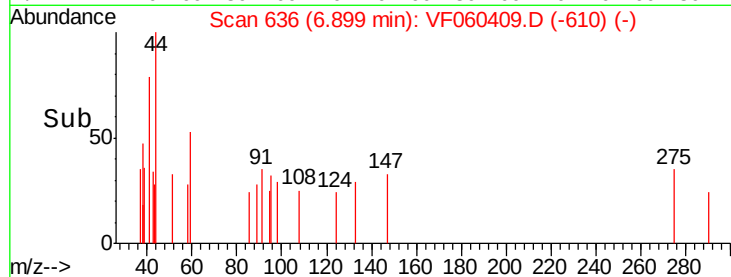
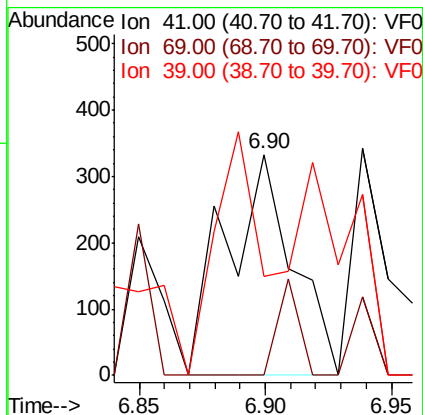
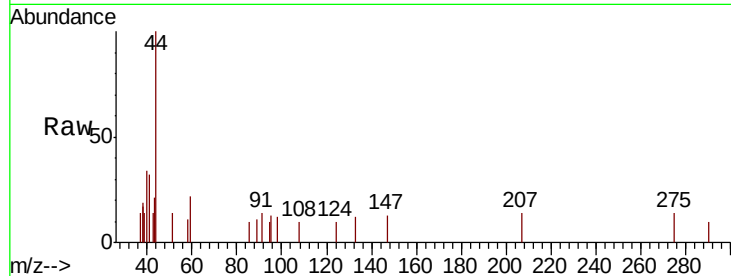




#48
Methyl methacrylate
Concen: 2278.815 ug/l
RT: 6.90 min Scan# 636
Delta R.T. 0.05 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

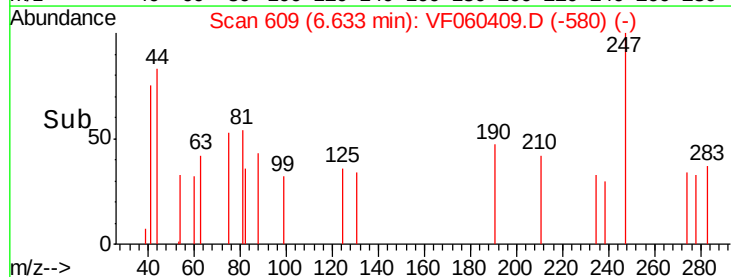
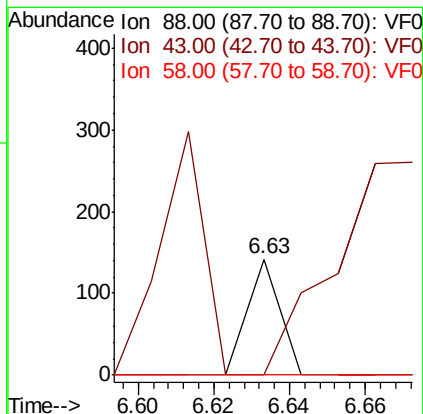
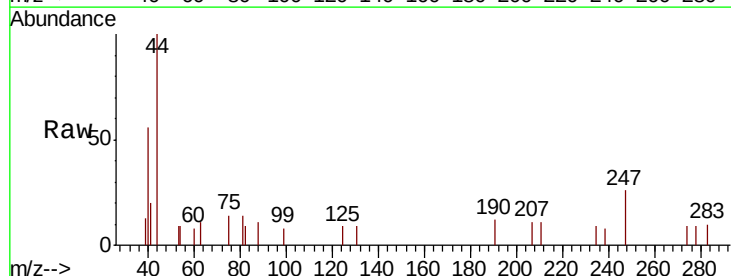
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5RE

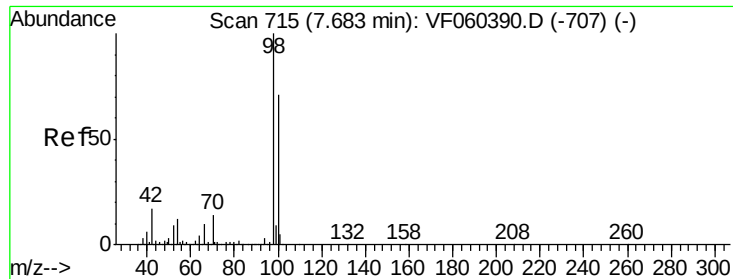
Tot Ion: 41 Resp: 616
Ion Ratio Lower Upper
41 100
69 0.0 56.3 84.5#
39 45.0 56.9 85.3#



#49
1,4-Dioxane
Concen: 36040.334 ug/l
RT: 6.63 min Scan# 609
Delta R.T. -0.21 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

Tgt Ion: 88 Resp: 84
Ion Ratio Lower Upper
88 100
43 0.0 38.3 57.5#
58 0.0 47.4 71.2#

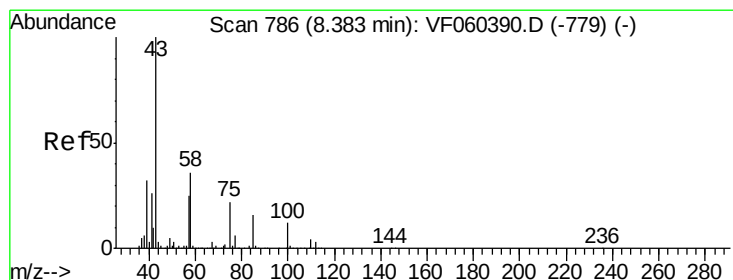
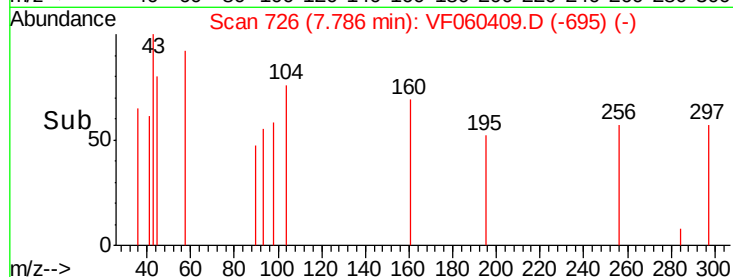
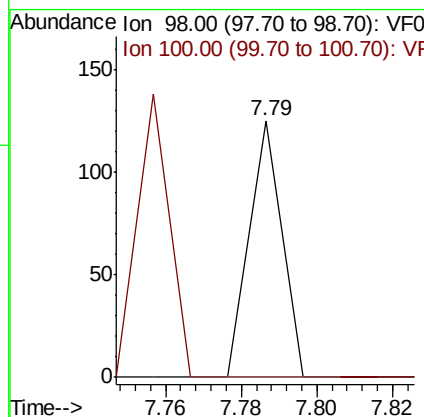
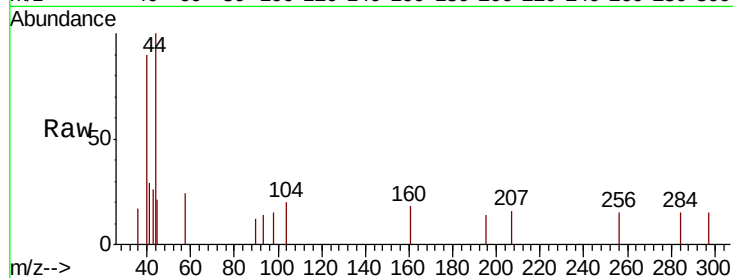




#50
Toluene-d8
Concen: 48.461 ug/l
RT: 7.79 min Scan# 726
Delta R.T. 0.10 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

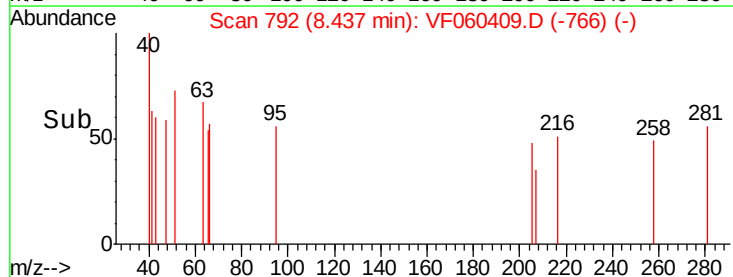
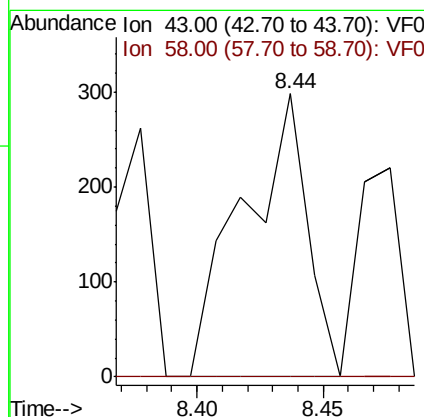
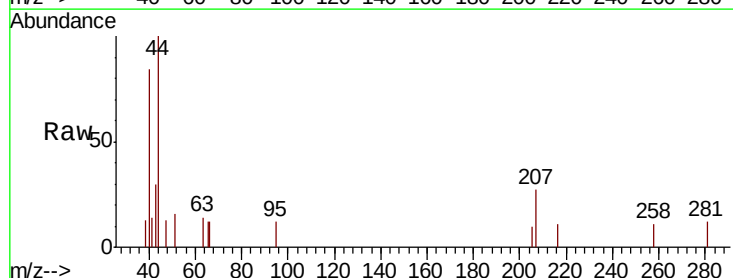
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5RE

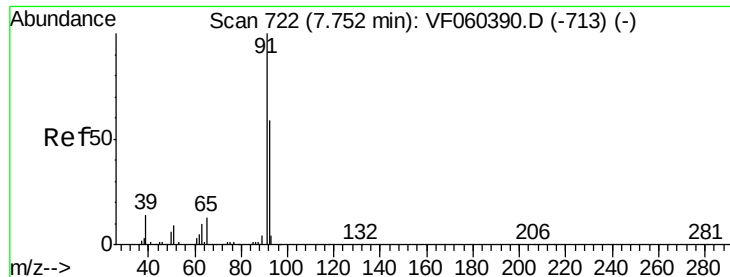
Tot Ion: 98 Resp: 74
Ion Ratio Lower Upper
98 100
100 0.0 56.5 84.7#



#51
4-Methyl-2-Pentanone
Concen: 1988.355 ug/l
RT: 8.44 min Scan# 792
Delta R.T. 0.05 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

Tgt Ion: 43 Resp: 533
Ion Ratio Lower Upper
43 100
58 0.0 28.5 42.7#





#52

Toluene

Concen: 74.734 ug/l

RT: 7.88 min Scan# 736

Delta R.T. 0.13 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

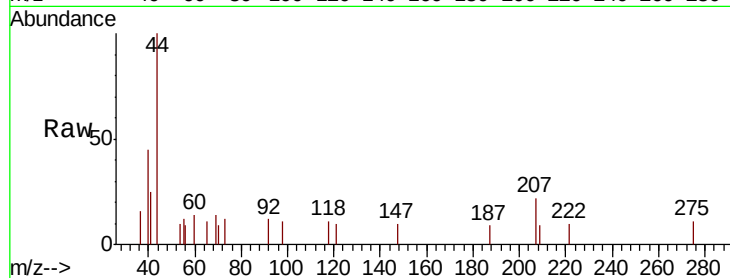
HC-SOIL-5RE

Tot Ion: 92 Resp: 82

Ion Ratio Lower Upper

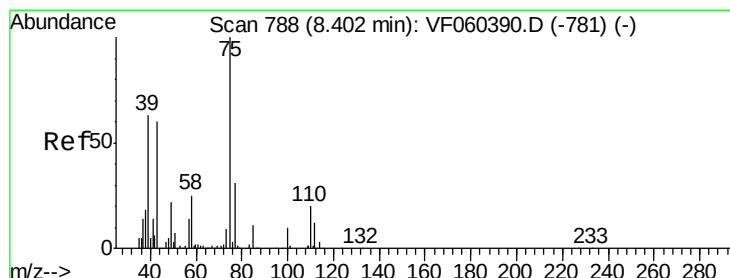
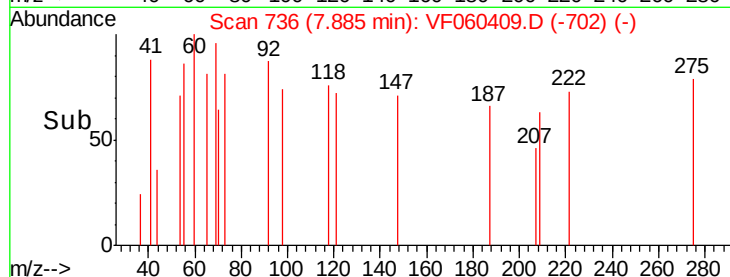
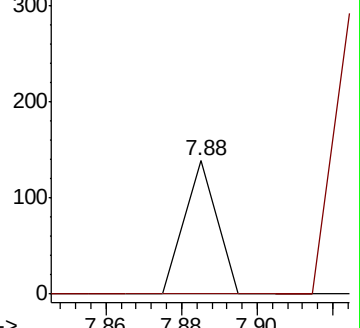
92 100

91 0.0 135.4 203.0#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#53

t-1,3-Dichloropropene

Concen: 122.145 ug/l

RT: 8.43 min Scan# 791

Delta R.T. 0.02 min

Lab File: VF060409.D

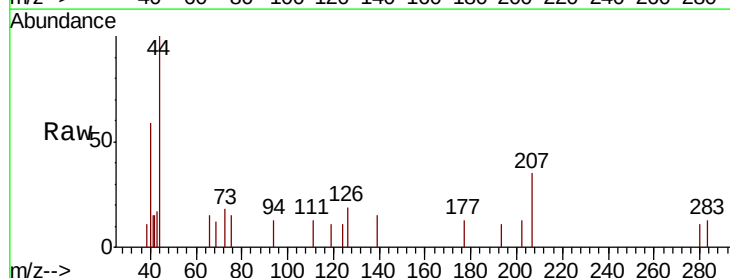
Acq: 2 Oct 2018 18:27

Tgt Ion: 75 Resp: 82

Ion Ratio Lower Upper

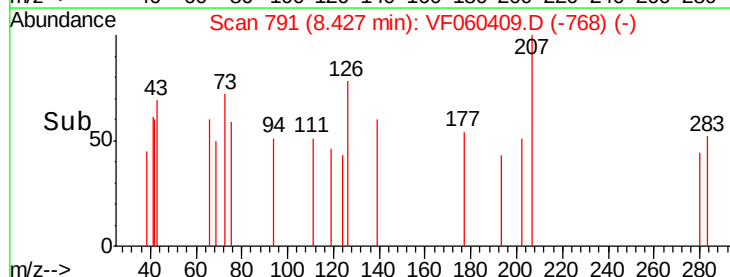
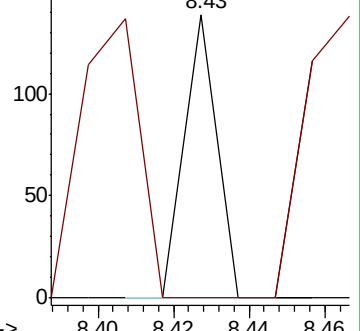
75 100

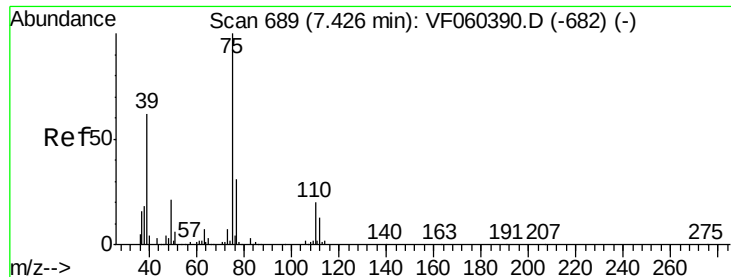
77 0.0 24.6 36.8#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#54

cis-1,3-Dichloropropene

Concen: 84.119 ug/l

RT: 7.47 min Scan# 694

Delta R.T. 0.04 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-5RE

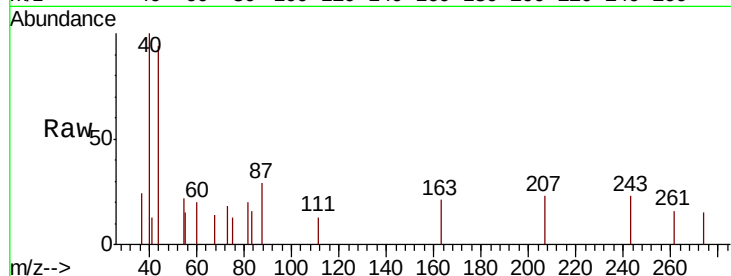
Tot Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

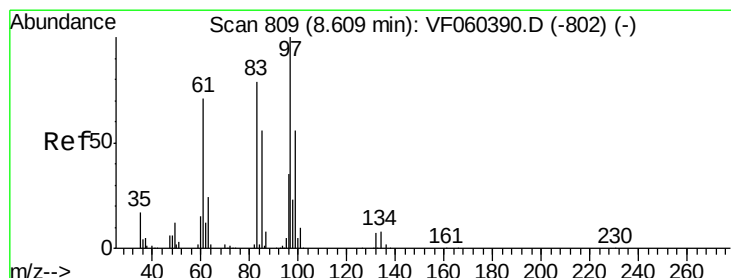
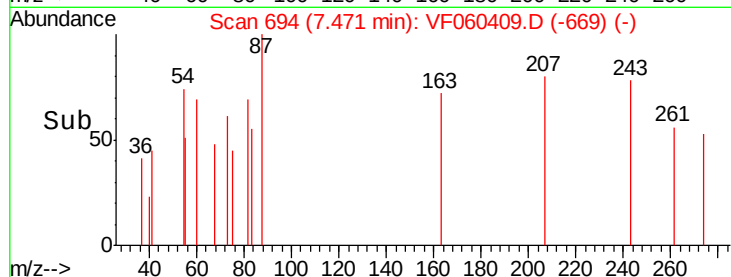
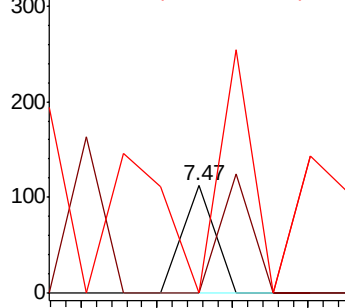
39 0.0 49.7 74.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#55

1,1,2-Trichloroethane

Concen: 359.415 ug/l

RT: 8.64 min Scan# 813

Delta R.T. 0.03 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Tgt Ion: 97 Resp: 125

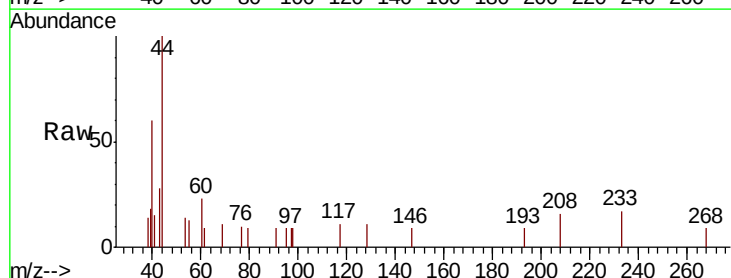
Ion Ratio Lower Upper

97 100

83 0.0 63.4 95.0#

85 0.0 44.5 66.7#

99 0.0 45.1 67.7#

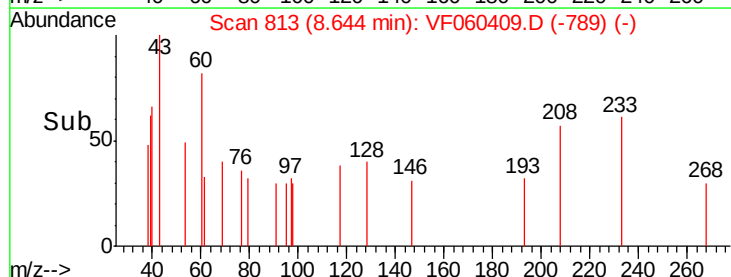
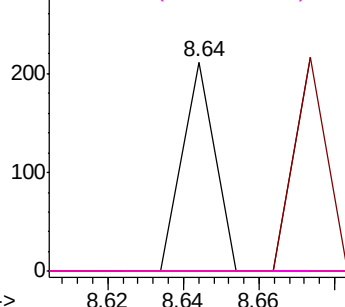


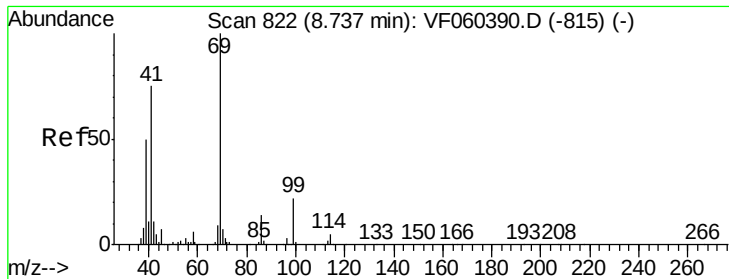
Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0





#56

Ethyl methacrylate

Concen: 258.097 ug/l

RT: 8.80 min Scan# 829

Delta R.T. 0.06 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-5RE

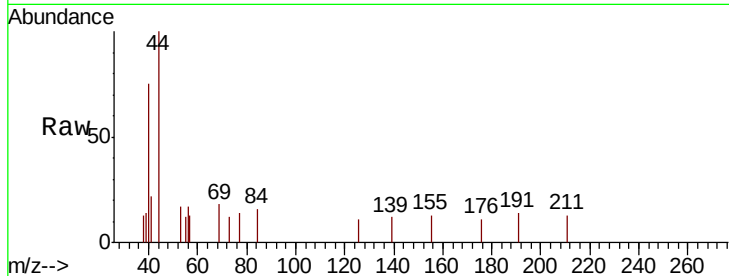
Tot Ion: 69 Resp: 102

Ion Ratio Lower Upper

69 100

41 118.5 60.2 90.4#

39 78.0 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

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

8.80

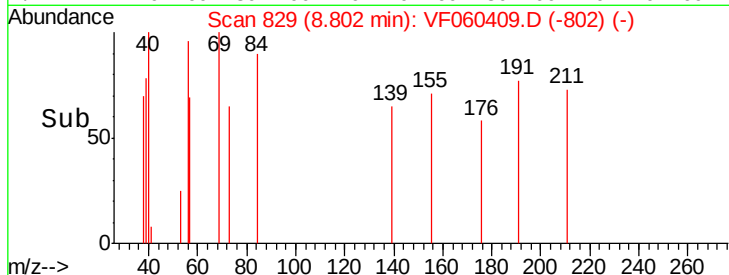
8.80

8.80

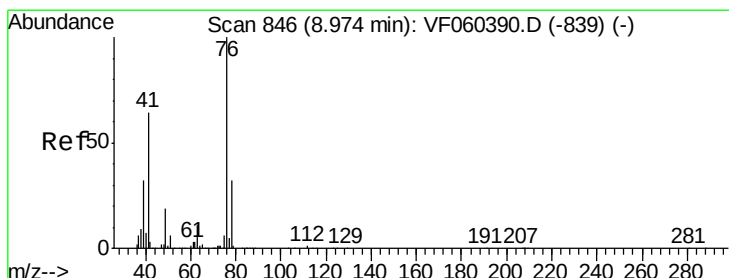
8.80

8.80

8.80



Time--> 8.78 8.80 8.82



#57

1,3-Dichloropropane

Concen: 118.974 ug/l

RT: 8.96 min Scan# 845

Delta R.T. -0.01 min

Lab File: VF060409.D

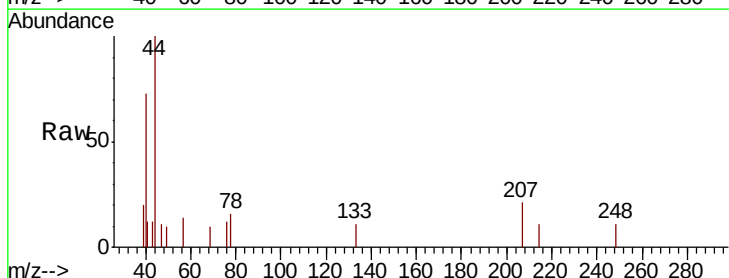
Acq: 2 Oct 2018 18:27

Tgt Ion: 76 Resp: 70

Ion Ratio Lower Upper

76 100

78 137.8 25.3 37.9#



Abundance Ion 76.00 (75.70 to 76.70): VF0

Ion 78.00 (77.70 to 78.70): VF0

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

8.96

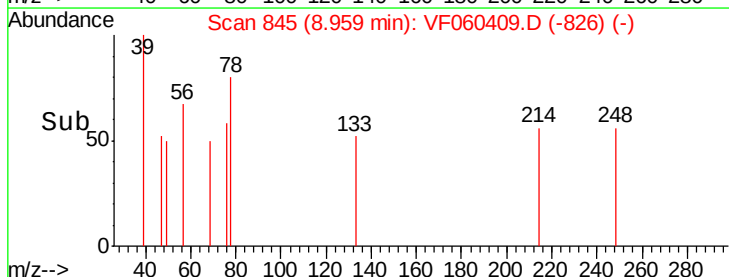
8.96

8.96

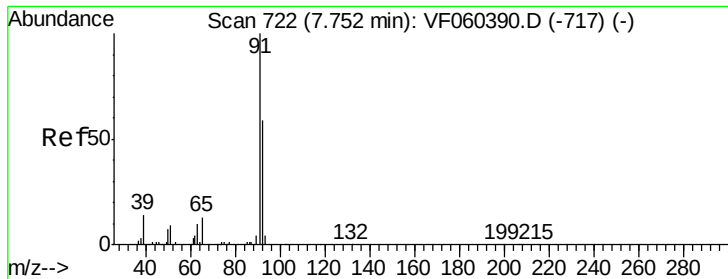
8.96

8.96

8.96



Time--> 8.92 8.94 8.96 8.98



#58

2-Chloroethyl Vinyl ether

Concen: 1981.780 ug/l

RT: 7.86 min Scan# 733

Delta R.T. 0.10 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

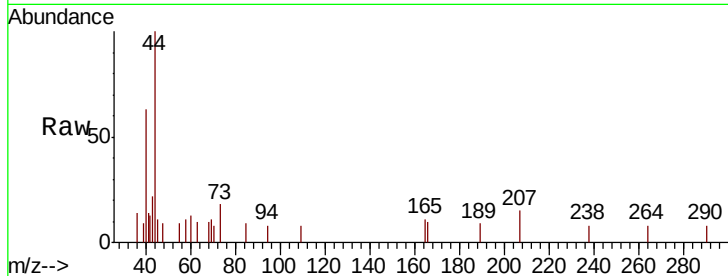
HC-SOIL-5RE

Tot Ion: 63 Resp: 80

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.86

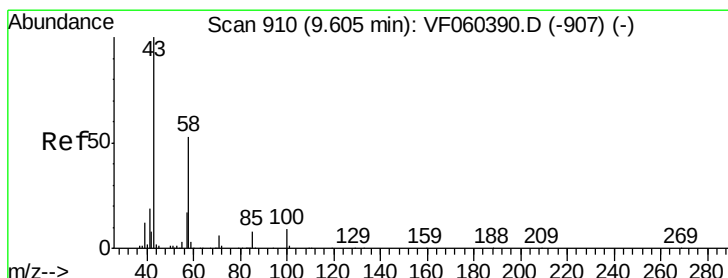
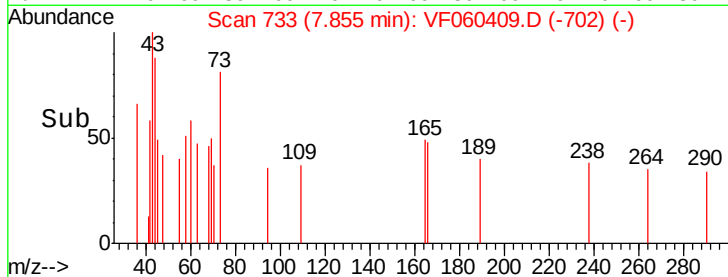
150

100

50

0

Time--> 7.82 7.84 7.86 7.88



#59

2-Hexanone

Concen: 2207.316 ug/l

RT: 9.74 min Scan# 924

Delta R.T. 0.13 min

Lab File: VF060409.D

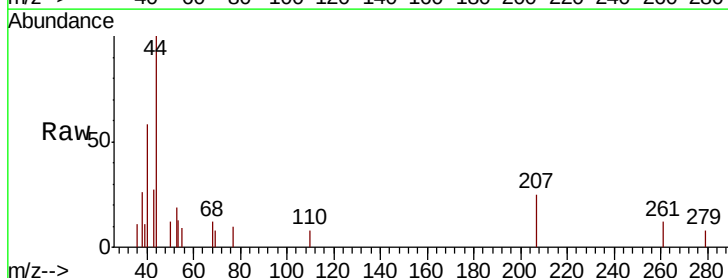
Acq: 2 Oct 2018 18:27

Tgt Ion: 43 Resp: 434

Ion Ratio Lower Upper

43 100

58 0.0 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.74

400

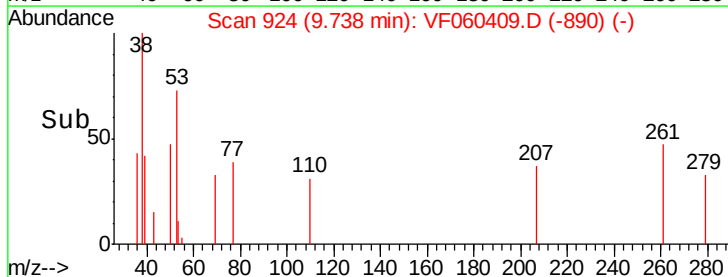
300

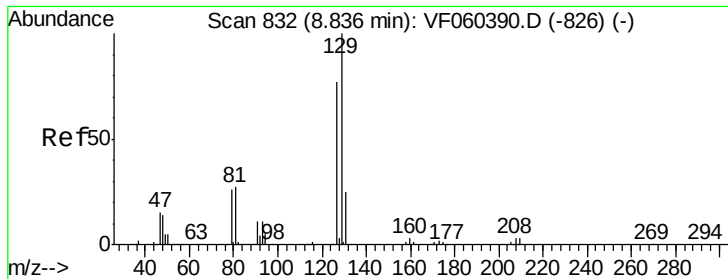
200

100

0

Time--> 9.70 9.75





#60

Dibromochloromethane

Concen: 143.227 ug/l

RT: 9.04 min Scan# 853

Delta R.T. 0.20 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

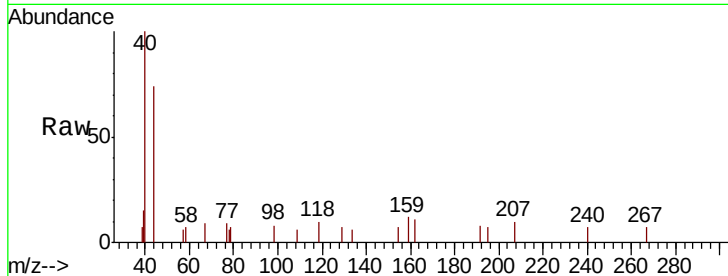
HC-SOIL-5RE

Tot Ion:129 Resp: 75

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

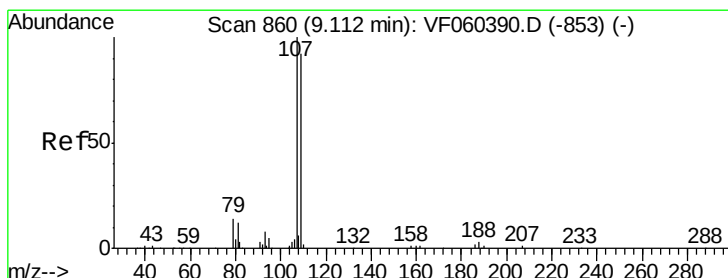
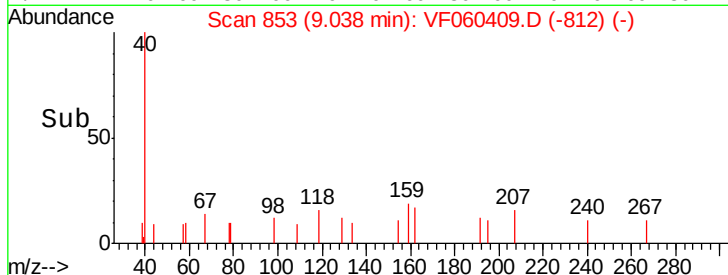
9.04

100

50

0

Time-->



#61

1,2-Dibromoethane

Concen: 202.336 ug/l

RT: 9.23 min Scan# 872

Delta R.T. 0.11 min

Lab File: VF060409.D

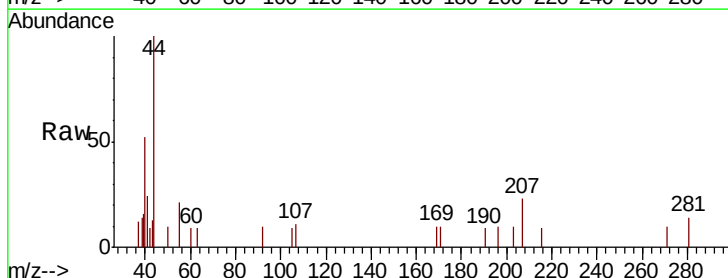
Acq: 2 Oct 2018 18:27

Tgt Ion:107 Resp: 77

Ion Ratio Lower Upper

107 100

109 0.0 73.7 110.5#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.23

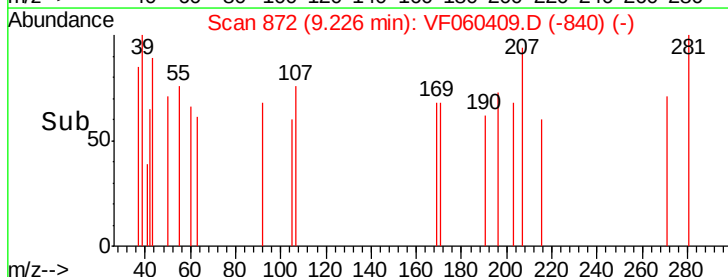
150

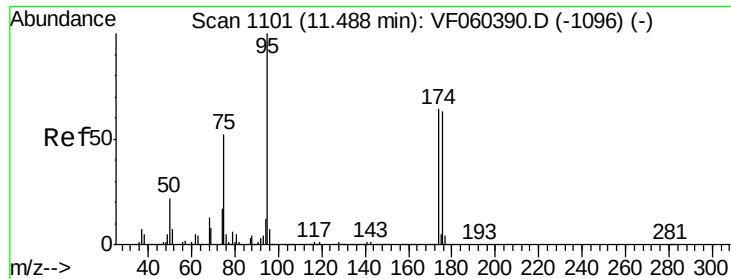
100

50

0

Time-->

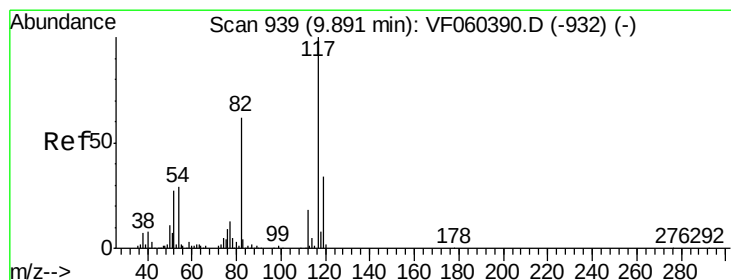
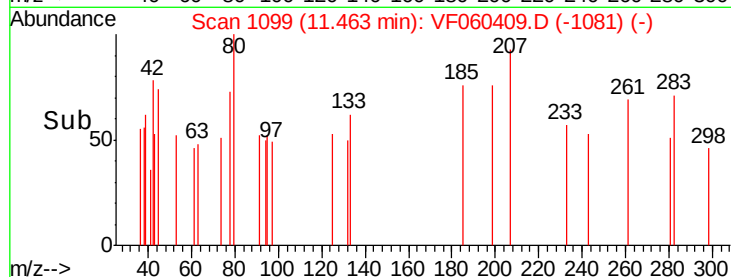
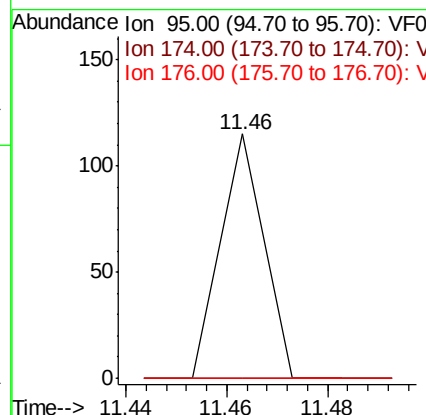
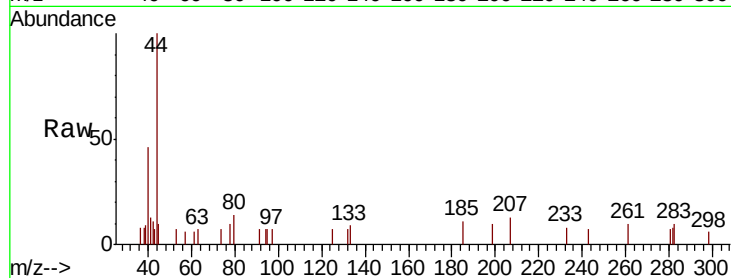




#62
4-Bromofluorobenzene
Concen: 97.530 ug/l
RT: 11.46 min Scan# 1099
Delta R.T. -0.02 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

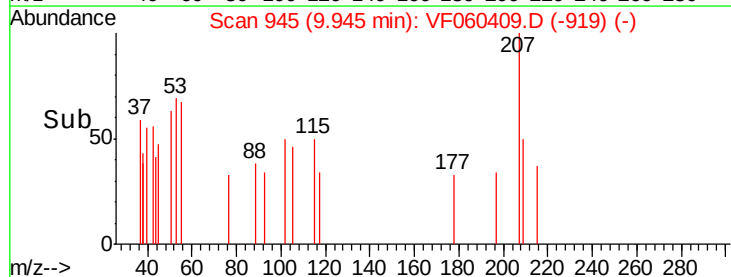
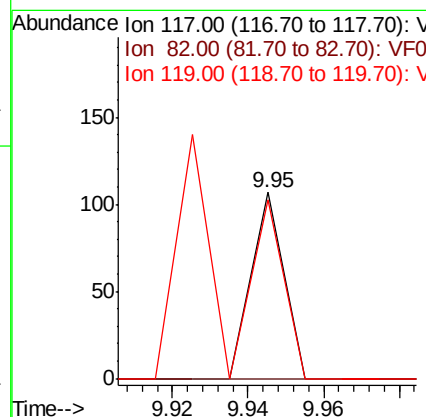
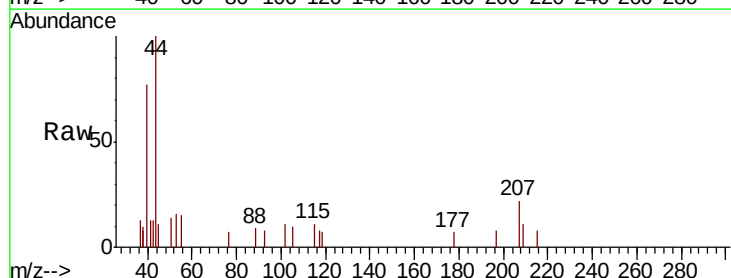
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5RE

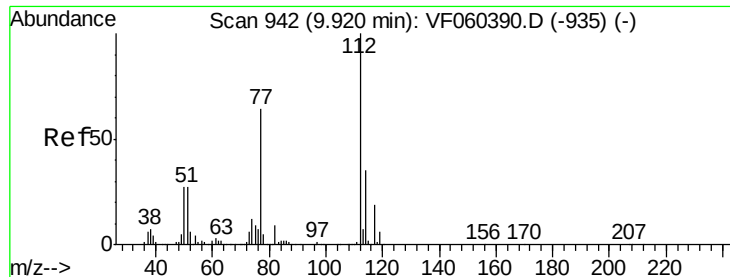
Tot Ion	Ratio	Lower	Upper
95	100		
174	0.0	0.0	129.0
176	0.0	0.0	125.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.95 min Scan# 945
Delta R.T. 0.05 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

Tgt Ion	Ratio	Lower	Upper
117	100		
82	0.0	49.5	74.3#
119	96.3	27.0	40.6#





#65

Chlorobenzene

Concen: 82.680 ug/l

RT: 10.02 min Scan# 953

Delta R.T. 0.10 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

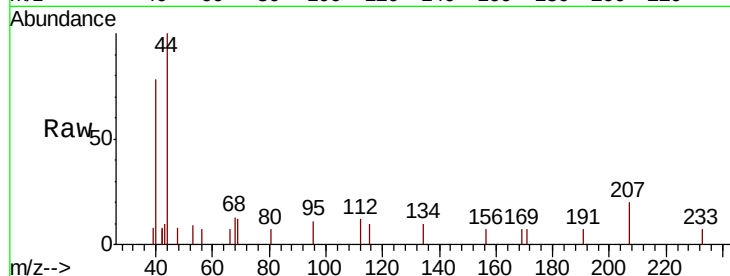
HC-SOIL-5RE

Tot Ion:112 Resp: 107

Ion Ratio Lower Upper

112 100

114 0.0 27.7 41.5#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

10.02

150

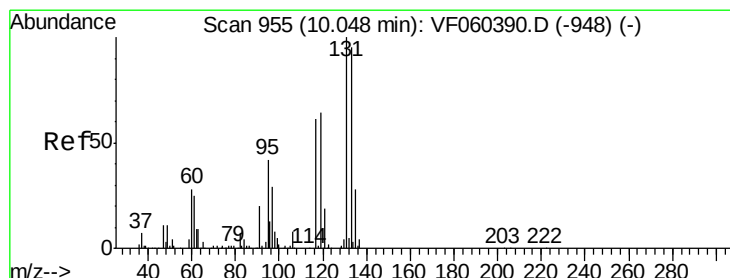
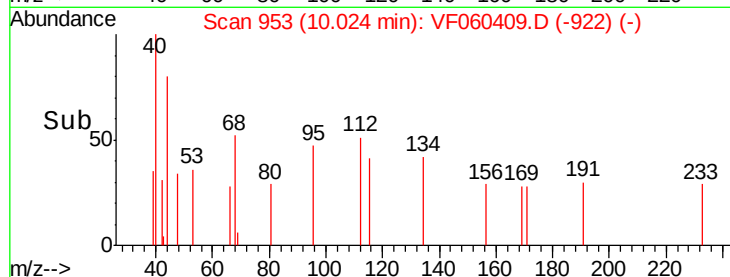
100

50

0

10.00 10.02 10.04

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 260.146 ug/l

RT: 10.12 min Scan# 963

Delta R.T. 0.07 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

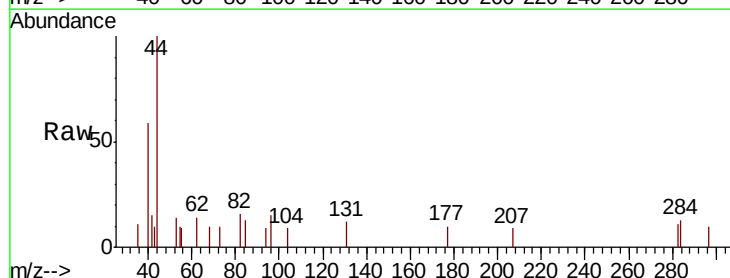
Tgt Ion:131 Resp: 147

Ion Ratio Lower Upper

131 100

133 0.0 47.3 141.8#

119 0.0 32.3 96.9#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V

10.12

150

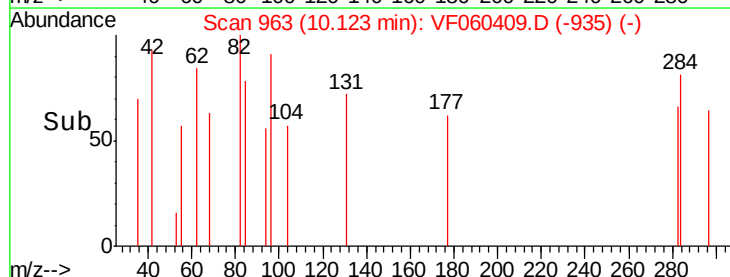
100

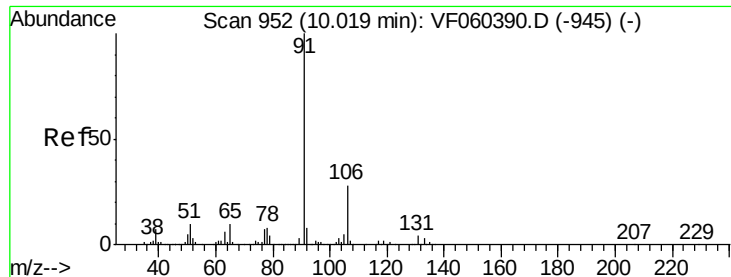
50

0

10.10 10.12 10.15

Time-->





#67

Ethyl Benzene

Concen: 36.169 ug/l

RT: 10.14 min Scan# 965

Delta R.T. 0.12 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

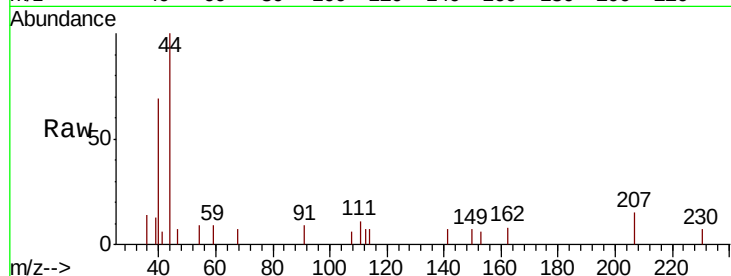
HC-SOIL-5RE

Tot Ion: 91 Resp: 89

Ion Ratio Lower Upper

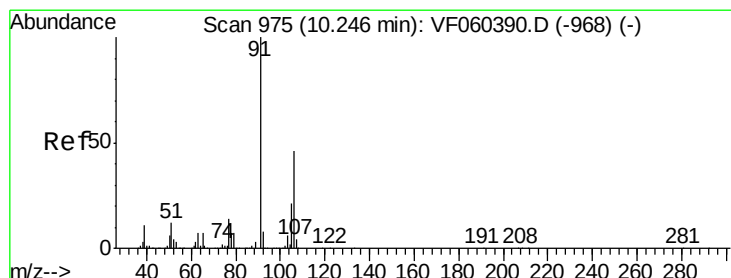
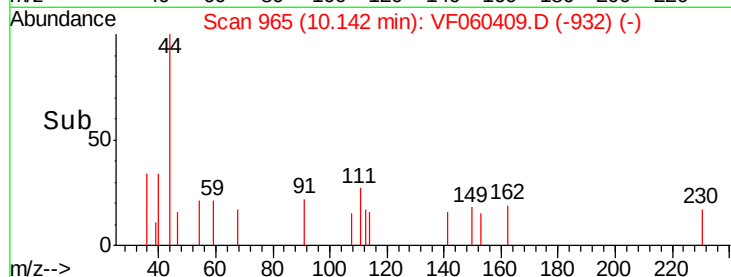
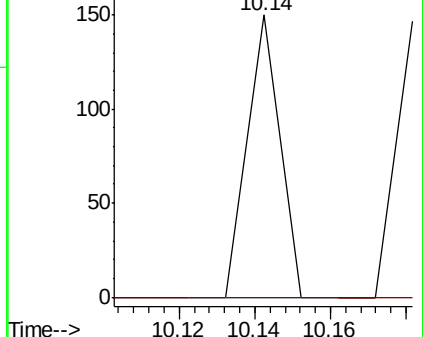
91 100

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: 74.478 ug/l

RT: 10.25 min Scan# 976

Delta R.T. 0.01 min

Lab File: VF060409.D

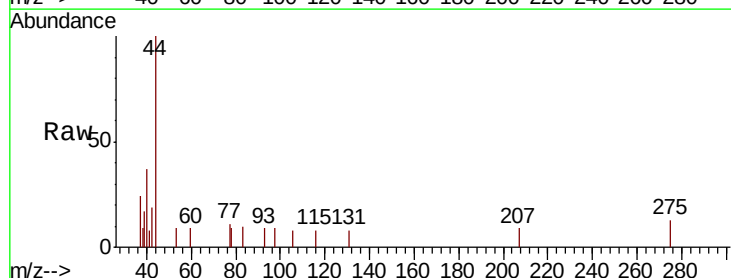
Acq: 2 Oct 2018 18:27

Tgt Ion: 106 Resp: 63

Ion Ratio Lower Upper

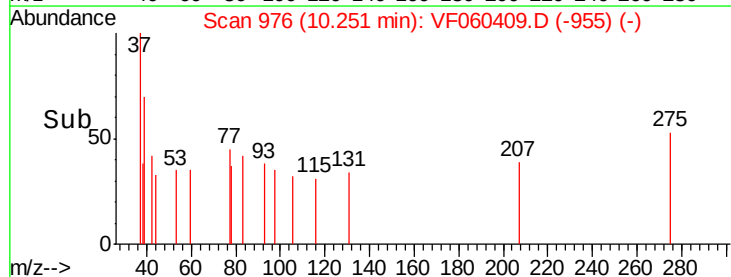
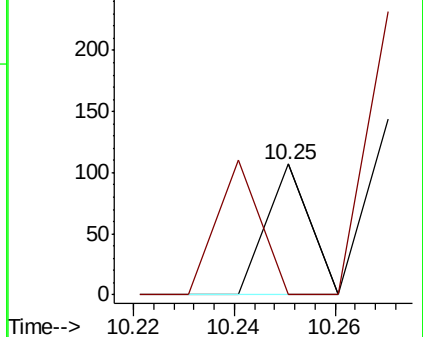
106 100

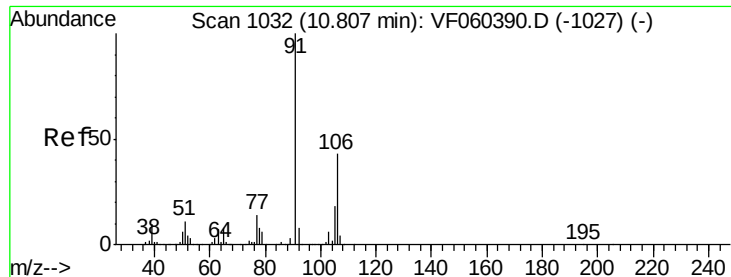
91 0.0 175.0 262.6#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

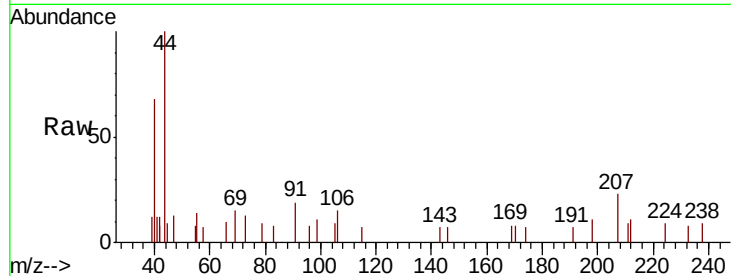




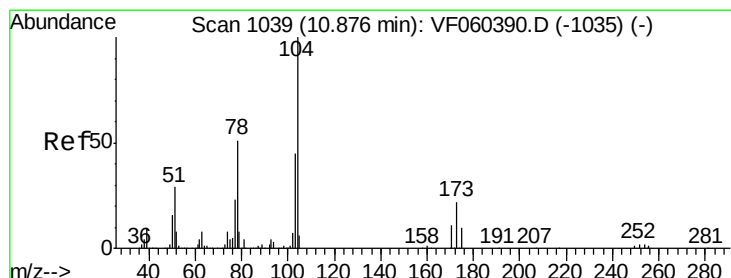
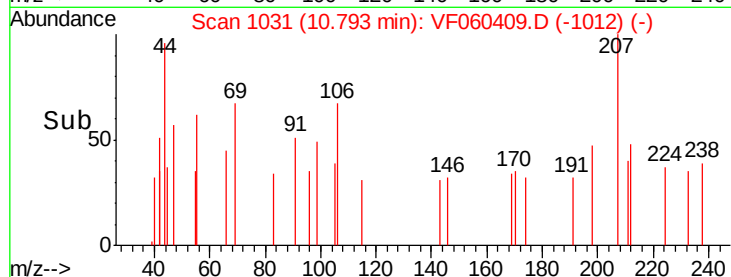
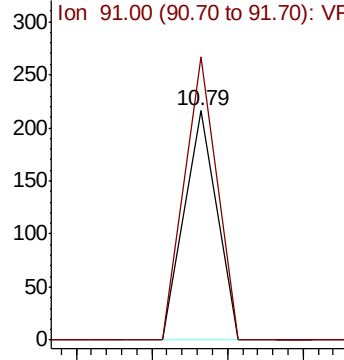
#69
o-Xylene
Concen: 138.824 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

Instrument :
MSVOA_F
ClientSampled :
HC-SOIL-5RE

Tot Ion:106 Resp: 128
Ion Ratio Lower Upper
106 100
91 123.6 115.1 345.2

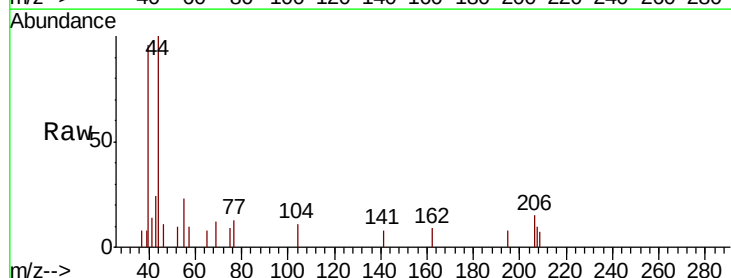


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

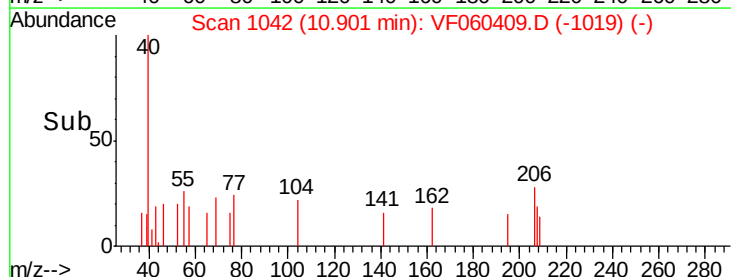
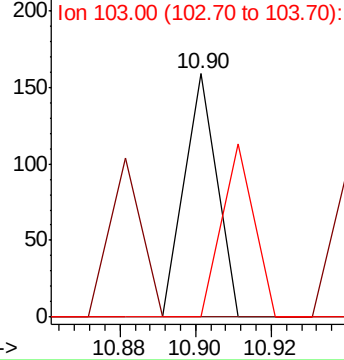


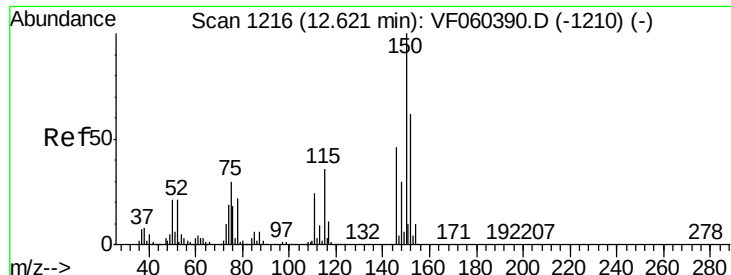
#70
Styrene
Concen: 71.674 ug/l
RT: 10.90 min Scan# 1042
Delta R.T. 0.02 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

Tgt Ion:104 Resp: 94
Ion Ratio Lower Upper
104 100
78 0.0 41.0 61.4#
103 0.0 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



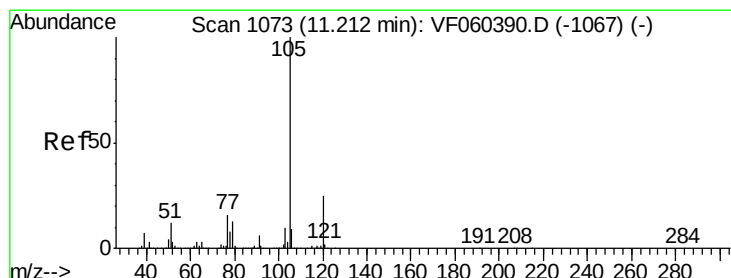
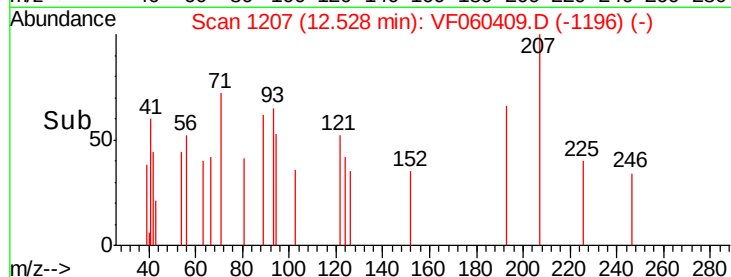
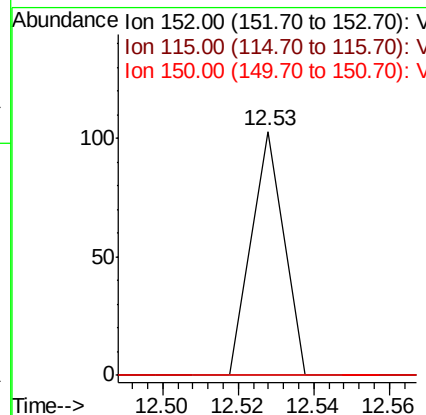
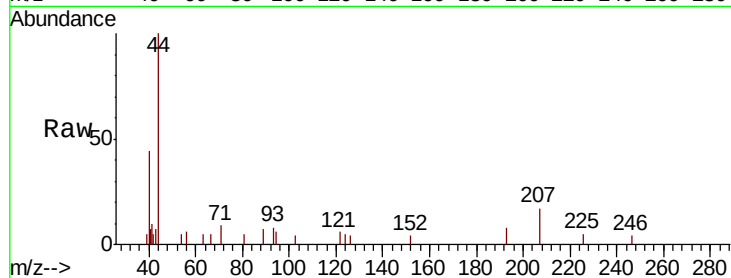


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.53 min Scan# 1207
Delta R.T. -0.09 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5RE

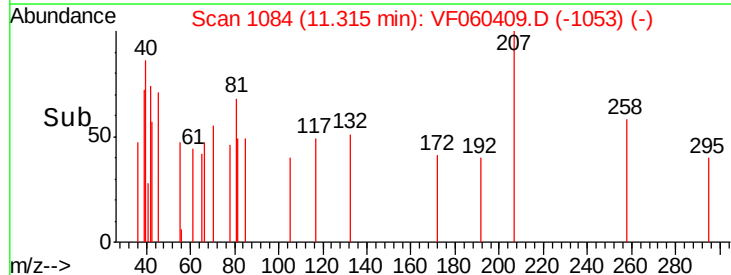
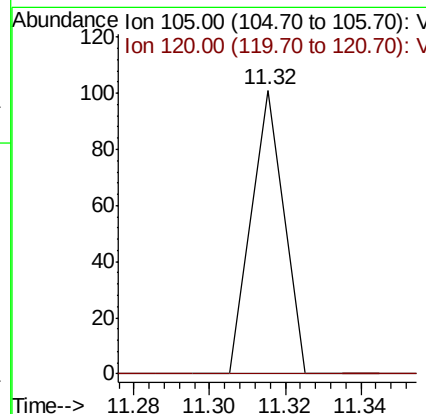
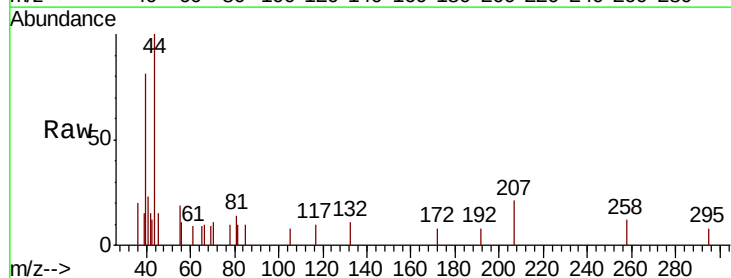
Tot Ion	Ratio	Lower	Upper
152	100		
115	0.0	28.6	85.8#
150	0.0	0.0	324.6

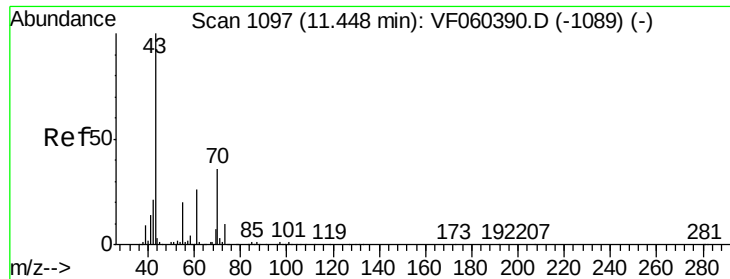


#73

Isopropylbenzene
Concen: 12.492 ug/l
RT: 11.32 min Scan# 1084
Delta R.T. 0.10 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	12.3	36.9#





#74

N-amvl acetate

Concen: 405.512 ug/l

RT: 11.47 min Scan# 1100

Delta R.T. 0.02 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-5RE

Tot Ion: 43 Resp: 447

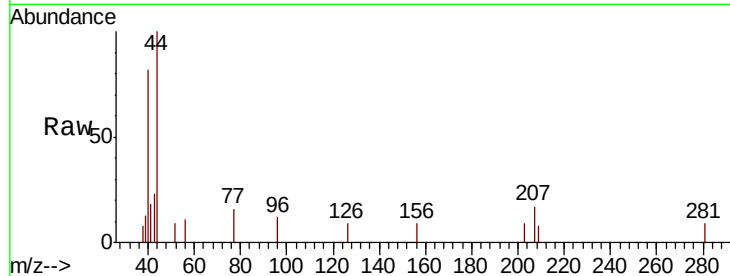
Ion Ratio Lower Upper

43 100

70 0.0 29.1 43.7#

55 0.0 16.3 24.5#

61 0.0 21.0 31.4#

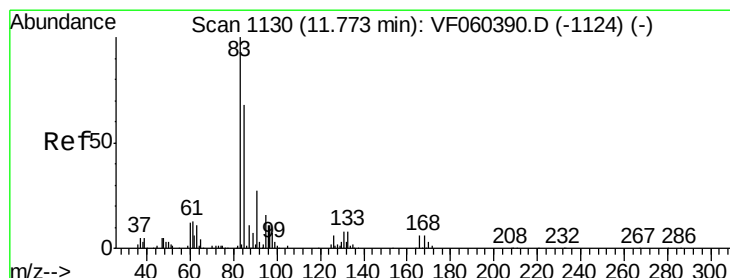
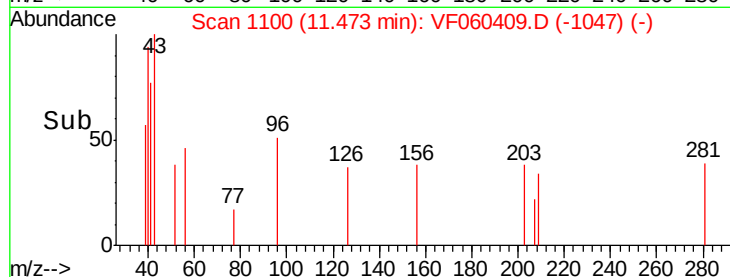
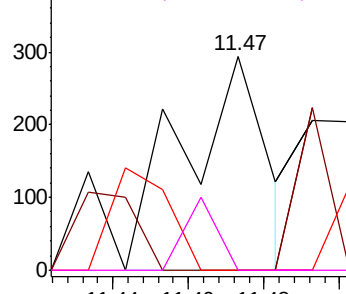


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#75

1,1,2,2-Tetrachloroethane

Concen: 197.566 ug/l

RT: 11.66 min Scan# 1119

Delta R.T. -0.11 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

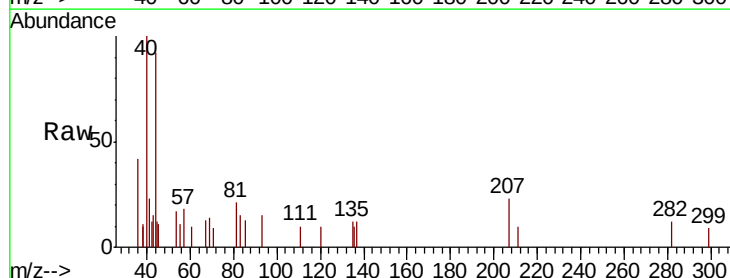
Tgt Ion: 83 Resp: 173

Ion Ratio Lower Upper

83 100

131 0.0 4.0 12.0#

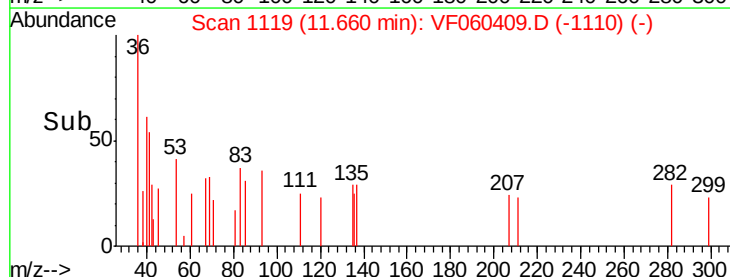
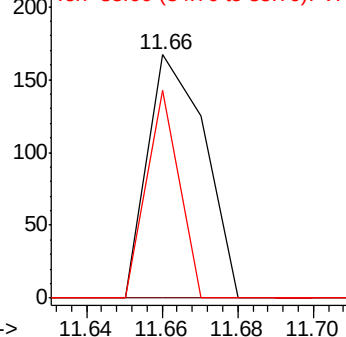
85 85.6 34.0 102.0

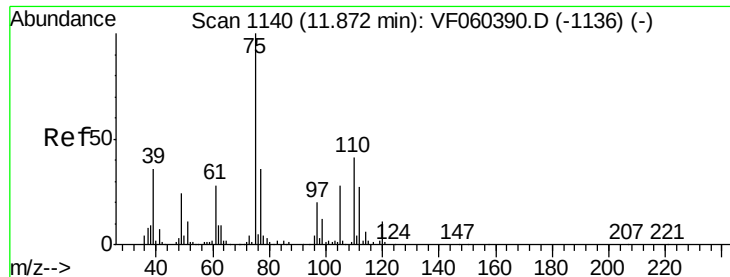


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#76

1,2,3-Trichloropropane

Concen: 328.859 ug/l

RT: 11.88 min Scan# 1141

Delta R.T. 0.01 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampled :

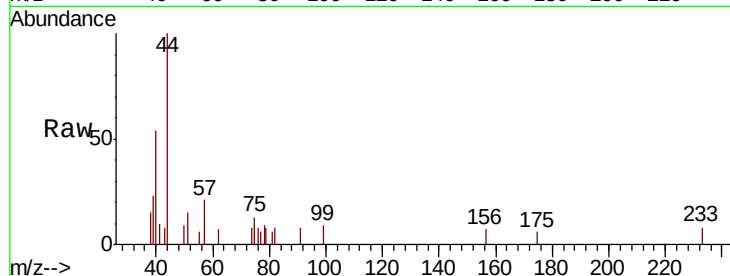
HC-SOIL-5RE

Tot Ion: 75 Resp: 212

Ion Ratio Lower Upper

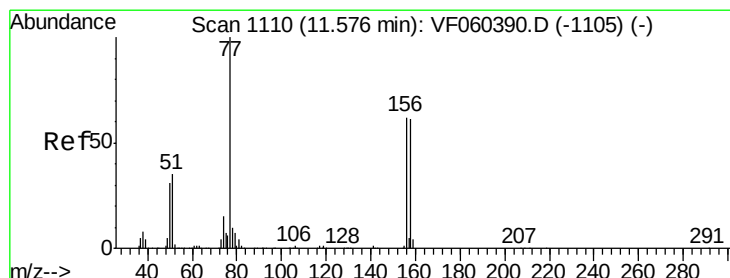
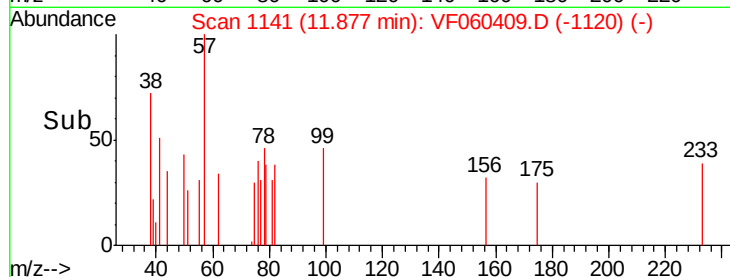
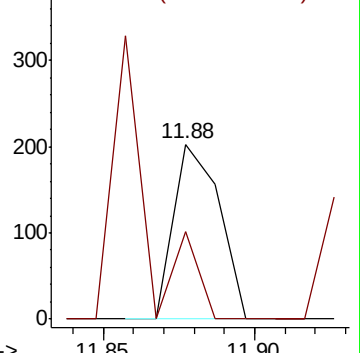
75 100

77 50.2 18.1 54.4



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#77

Bromobenzene

Concen: 134.124 ug/l

RT: 11.62 min Scan# 1115

Delta R.T. 0.04 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

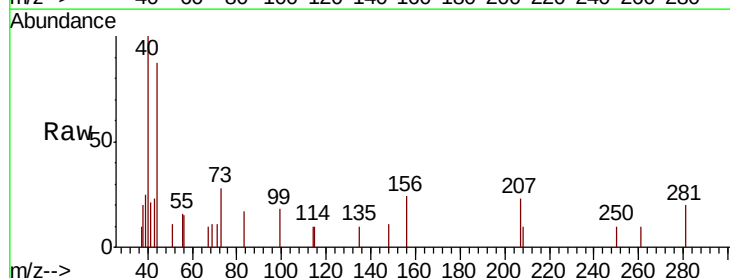
Tgt Ion: 156 Resp: 144

Ion Ratio Lower Upper

156 100

77 0.0 81.3 243.9#

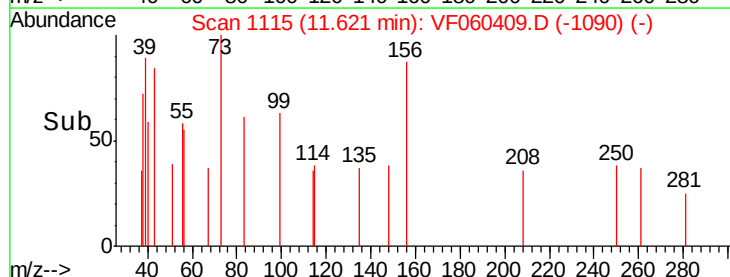
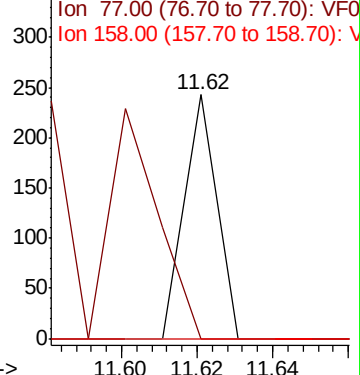
158 0.0 49.6 149.0#

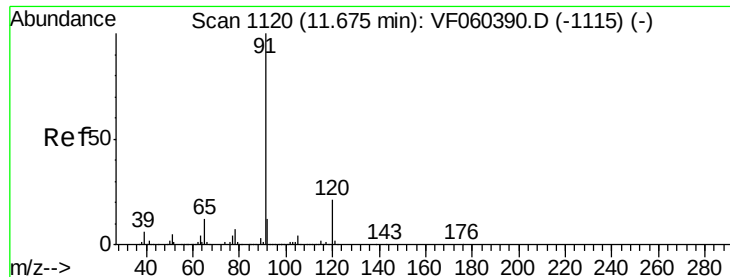


Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V





#78

n-propylbenzene

Concen: 21.124 ug/l

RT: 11.67 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

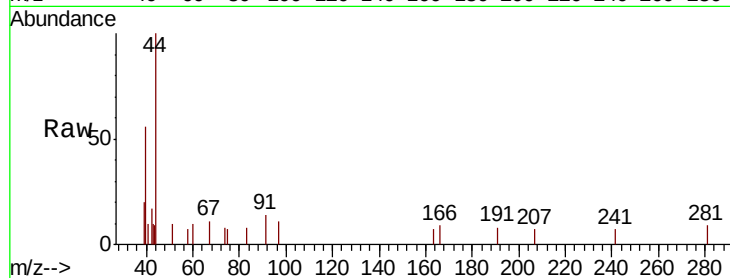
HC-SOIL-5RE

Tot Ion: 91 Resp: 123

Ion Ratio Lower Upper

91 100

120 0.0 10.5 31.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

11.67

200

150

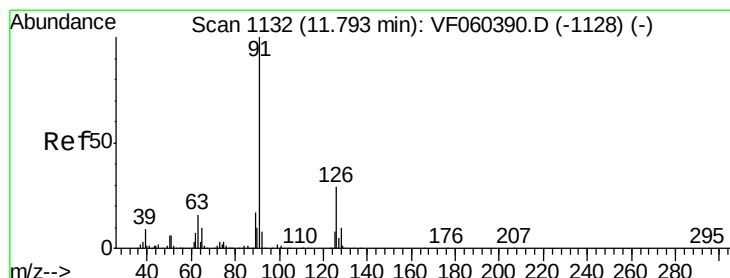
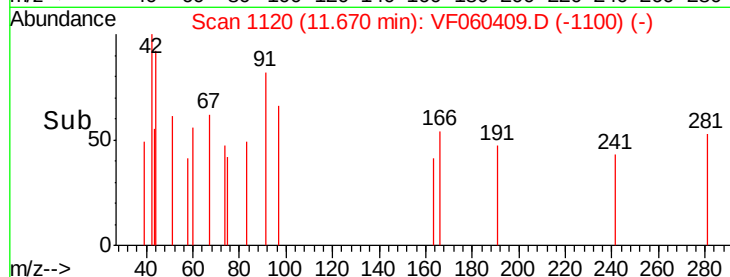
100

50

0

11.64 11.66 11.68 11.70

Time-->



#79

2-Chlorotoluene

Concen: 18.790 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. 0.02 min

Lab File: VF060409.D

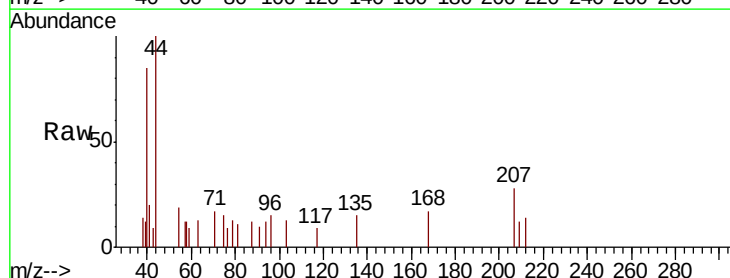
Acq: 2 Oct 2018 18:27

Tgt Ion: 91 Resp: 64

Ion Ratio Lower Upper

91 100

126 0.0 14.4 43.4#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.82

120

100

80

60

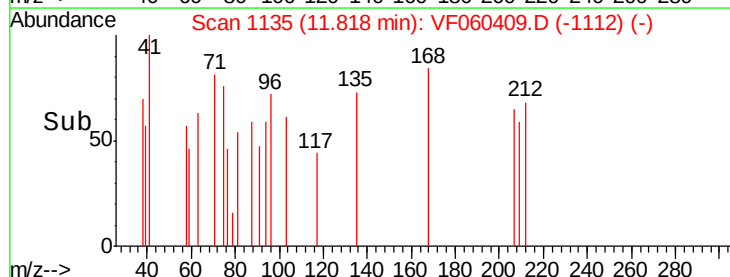
40

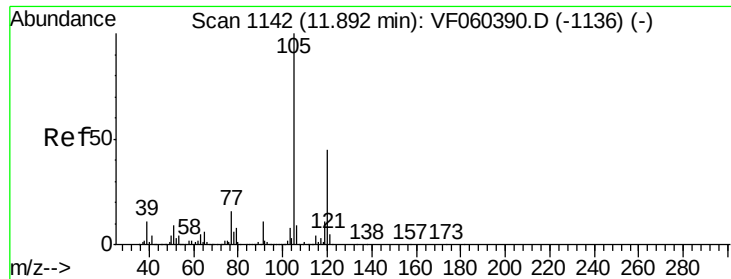
20

0

11.80 11.81 11.82 11.83

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 34.063 ug/l

RT: 11.85 min Scan# 1138

Delta R.T. -0.04 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampled :

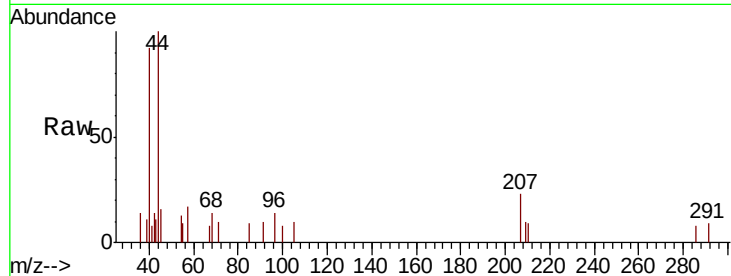
HC-SOIL-5RE

Tot Ion:105 Resp: 139

Ion Ratio Lower Upper

105 100

120 0.0 22.3 66.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

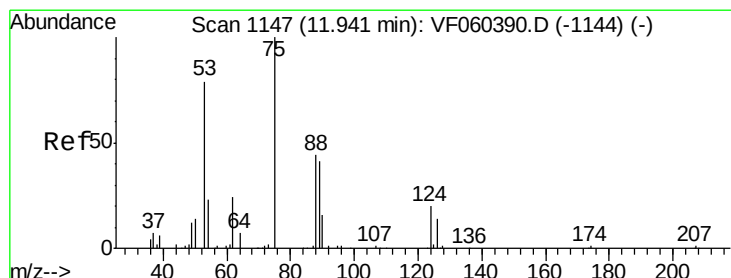
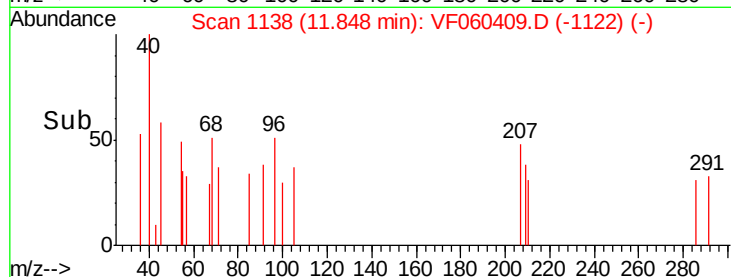
11.85

100

50

0

Time--> 11.80 11.85



#81

trans-1,4-Dichloro-2-butene

Concen: 633.393 ug/l

RT: 11.98 min Scan# 1151

Delta R.T. 0.03 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

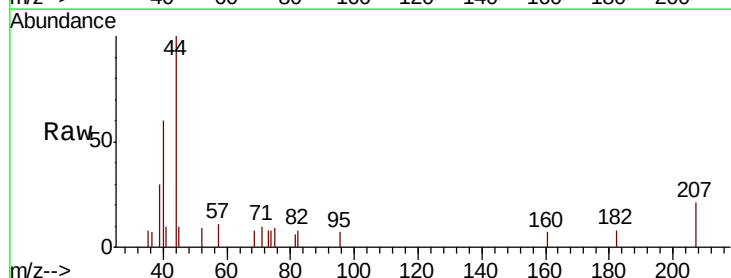
Tgt Ion: 75 Resp: 181

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 36.7 55.1#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 89.00 (88.70 to 89.70): VF0

250

200

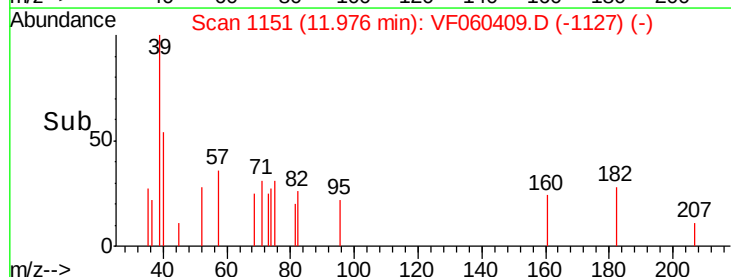
150

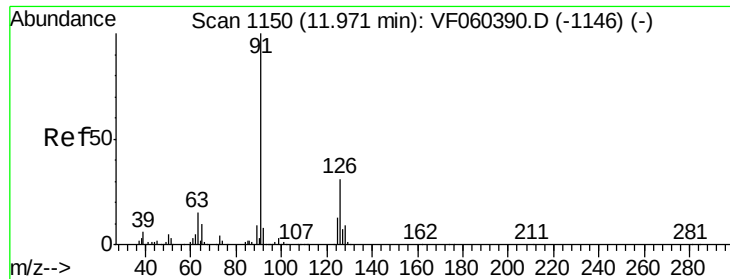
100

50

0

Time--> 11.95 12.00

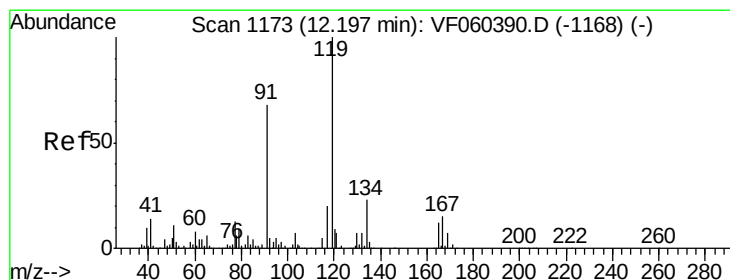
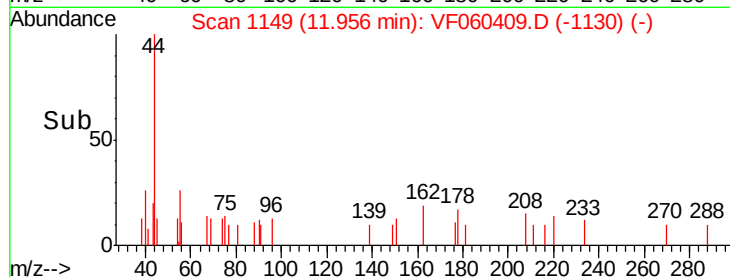
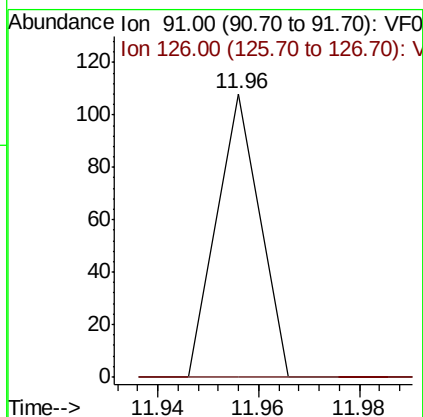
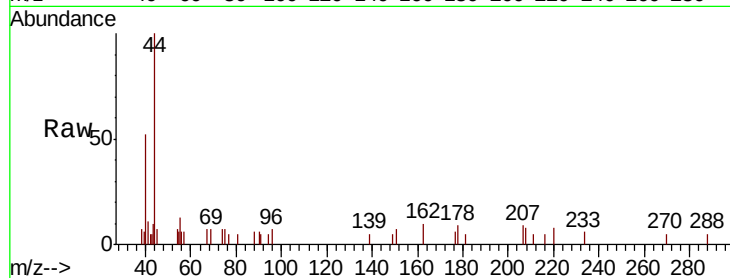




#82
4-Chlorotoluene
Concen: 18.365 ug/l
RT: 11.96 min Scan# 1149
Delta R.T. -0.01 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

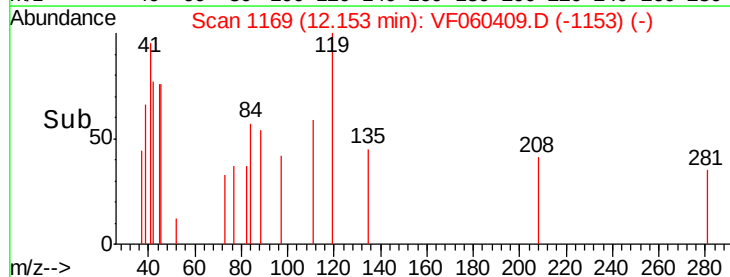
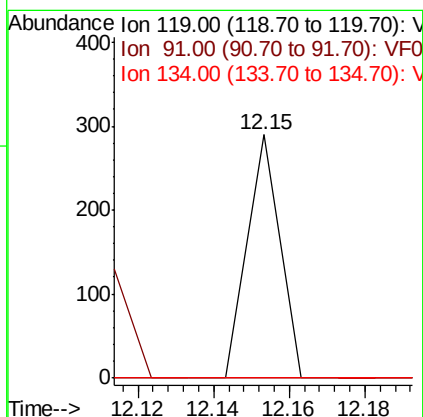
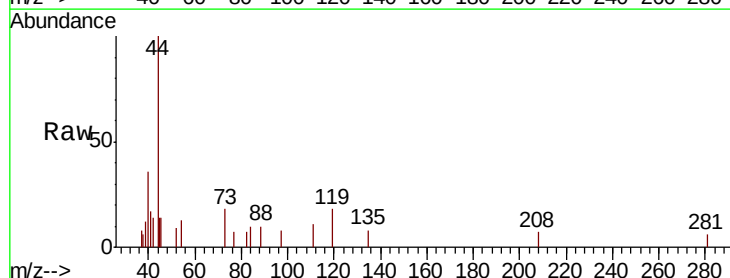
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5RE

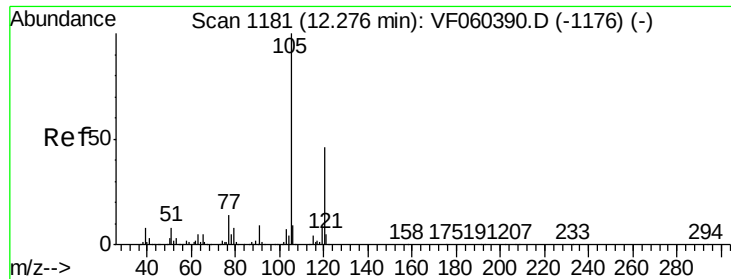
Tot Ion: 91 Resp: 64
Ion Ratio Lower Upper
91 100
126 0.0 15.7 47.0#



#83
tert-Butylbenzene
Concen: 42.734 ug/l
RT: 12.15 min Scan# 1169
Delta R.T. -0.04 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

Tgt Ion: 119 Resp: 172
Ion Ratio Lower Upper
119 100
91 0.0 34.0 102.0#
134 0.0 11.7 35.0#

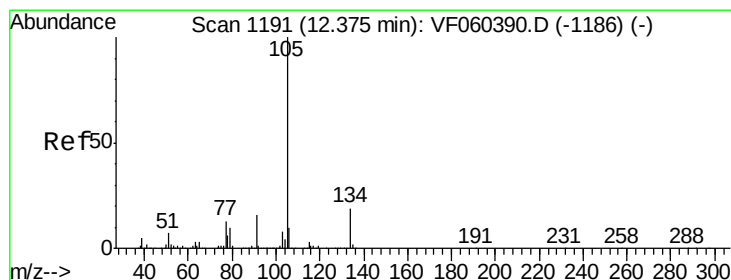
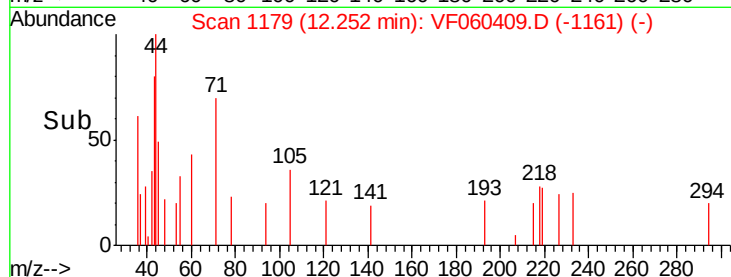
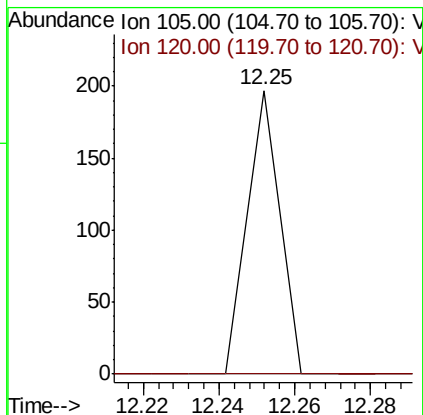
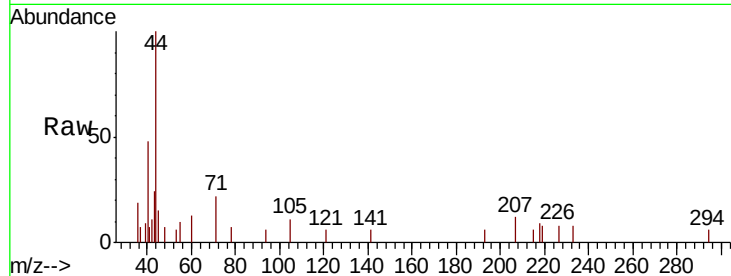




#84
 1,2,4-Trimethylbenzene
 Concen: 28.664 ug/l
 RT: 12.25 min Scan# 1179
 Delta R.T. -0.02 min
 Lab File: VF060409.D
 Acq: 2 Oct 2018 18:27

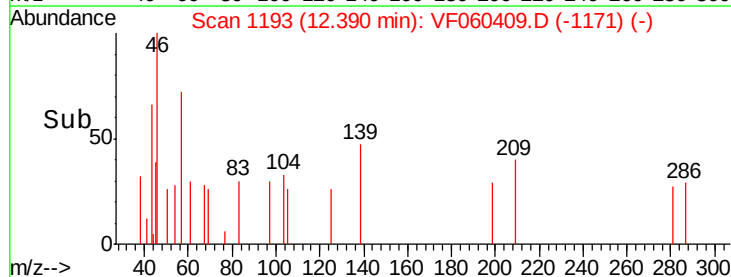
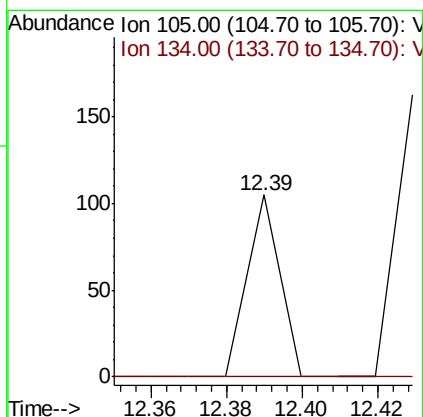
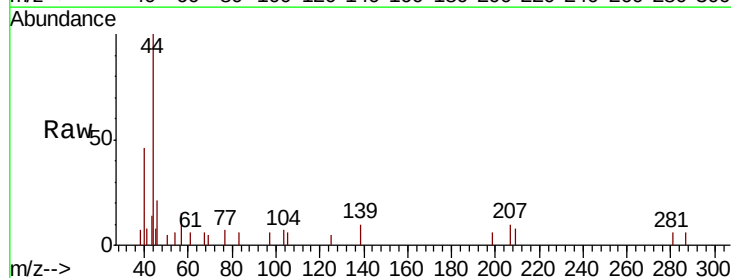
Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-5RE

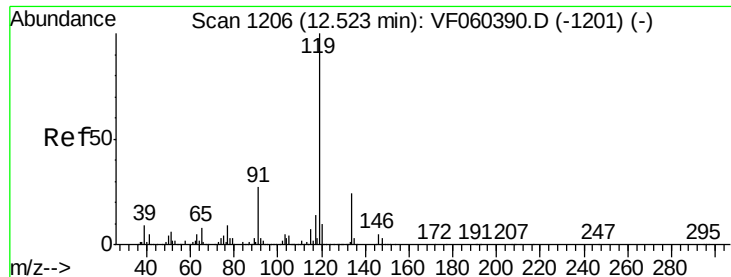
Tot Ion:105 Resp: 116
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.1 69.2#



#85
 sec-Butylbenzene
 Concen: 11.160 ug/l
 RT: 12.39 min Scan# 1193
 Delta R.T. 0.02 min
 Lab File: VF060409.D
 Acq: 2 Oct 2018 18:27

Tgt Ion:105 Resp: 62
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.4 28.3#





#86

p-Isopropyltoluene

Concen: 16.084 ug/l

RT: 12.46 min Scan# 1200

Delta R.T. -0.06 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-5RE

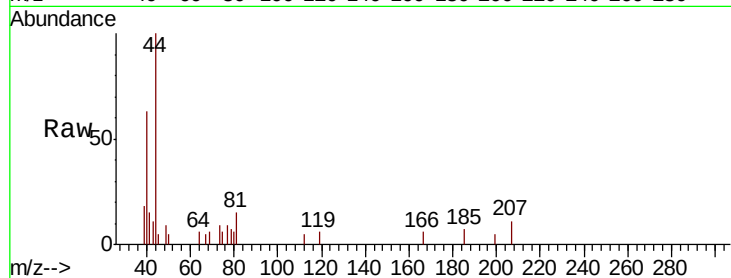
Tot Ion: 119 Resp: 73

Ion Ratio Lower Upper

119 100

134 0.0 12.3 36.8#

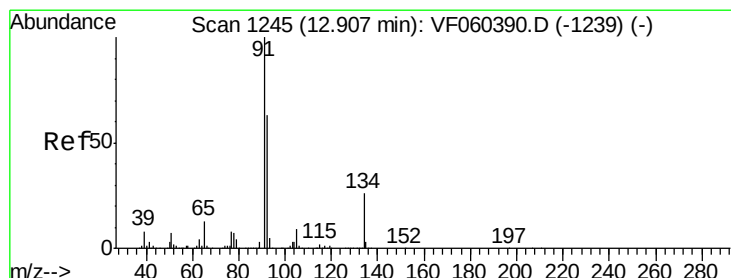
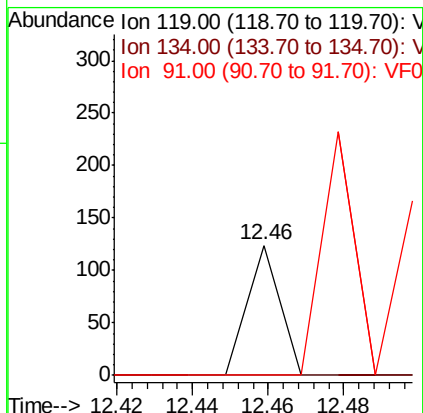
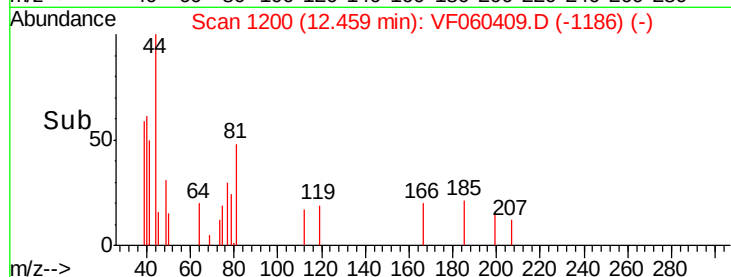
91 0.0 13.5 40.4#



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



#89

n-Butylbenzene

Concen: 13.534 ug/l

RT: 12.86 min Scan# 1241

Delta R.T. -0.04 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

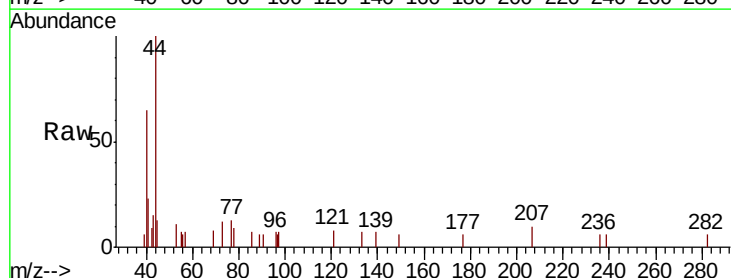
Tgt Ion: 91 Resp: 65

Ion Ratio Lower Upper

91 100

92 0.0 31.3 93.9#

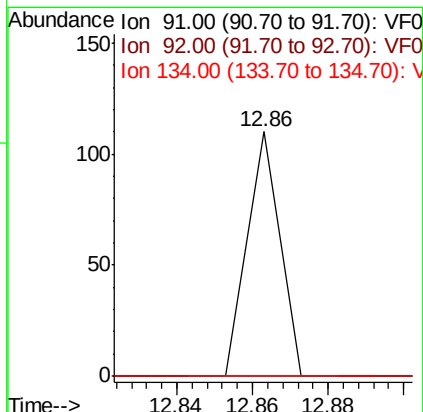
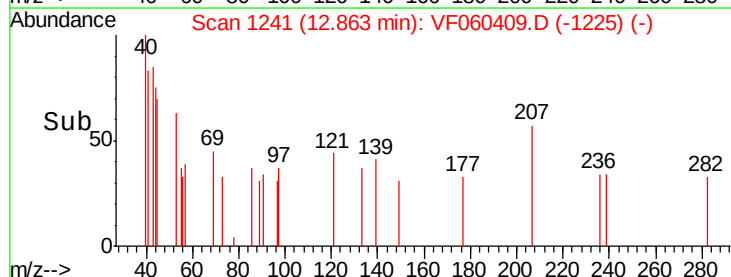
134 0.0 13.0 38.9#

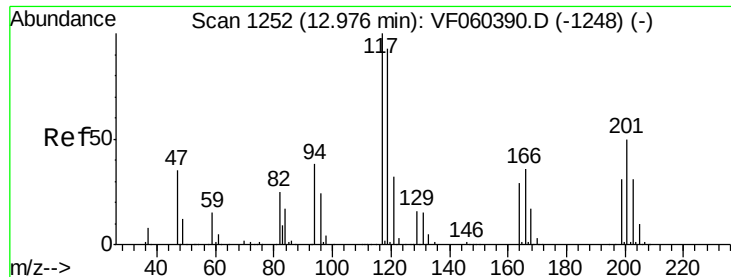


Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 211.410 ug/l

RT: 13.00 min Scan# 1255

Delta R.T. 0.02 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

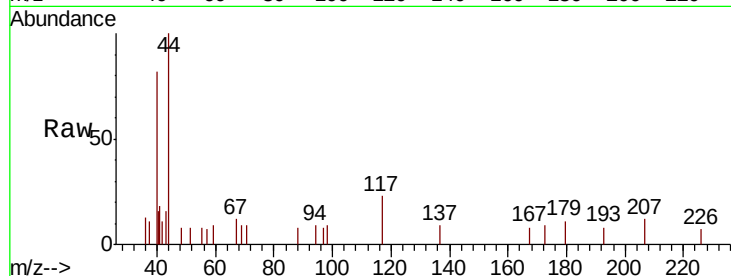
HC-SOIL-5RE

Tot Ion:117 Resp: 248

Ion Ratio Lower Upper

117 100

201 0.0 25.5 76.5#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

13.00

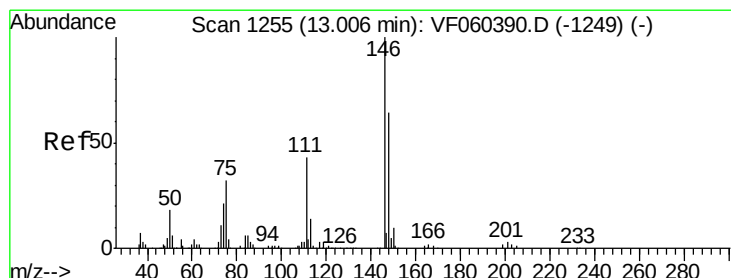
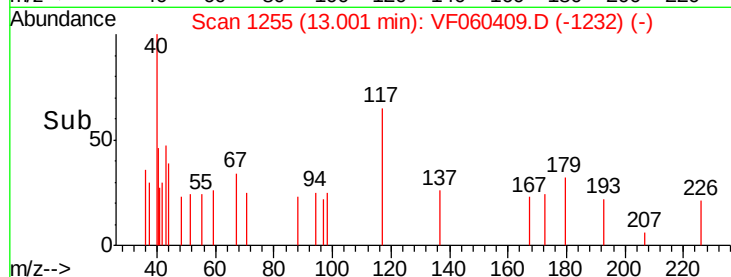
300

200

100

0

Time-->



#91

1,2-Dichlorobenzene

Concen: 43.394 ug/l

RT: 13.01 min Scan# 1256

Delta R.T. 0.01 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

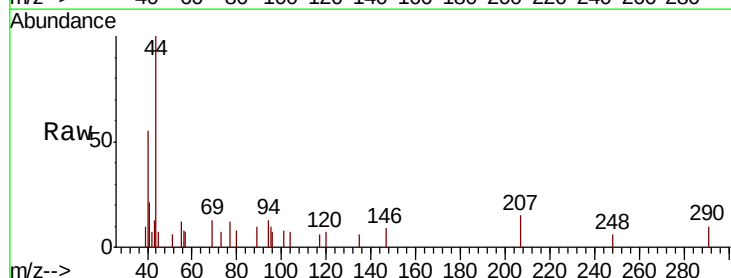
Tgt Ion:146 Resp: 84

Ion Ratio Lower Upper

146 100

111 0.0 21.3 64.0#

148 0.0 32.2 96.6#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

13.01

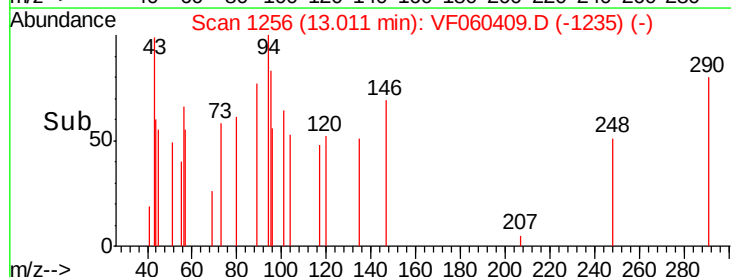
150

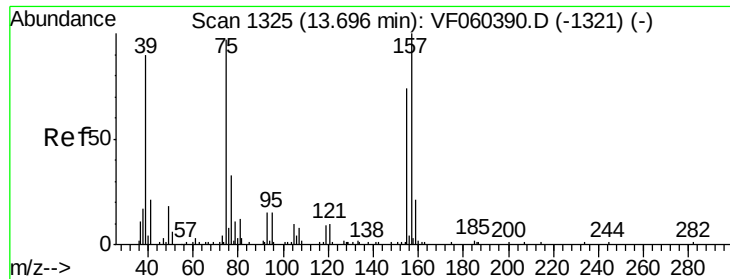
100

50

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 371.120 ug/l

RT: 13.67 min Scan# 1323

Delta R.T. -0.02 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-5RE

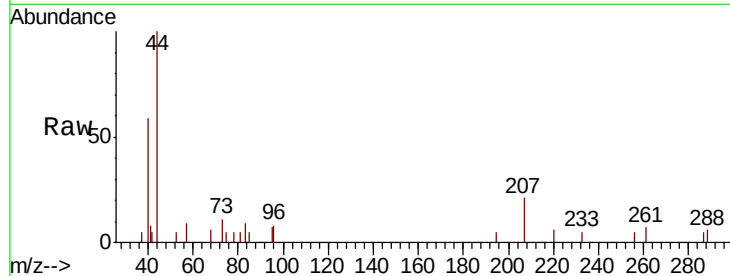
Tot Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

155 0.0 37.9 113.6#

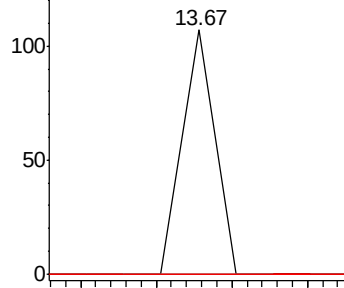
157 0.0 51.3 154.0#



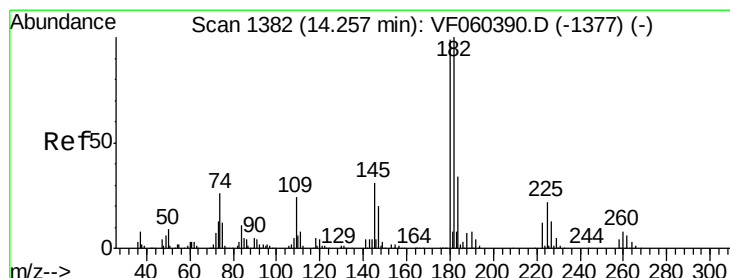
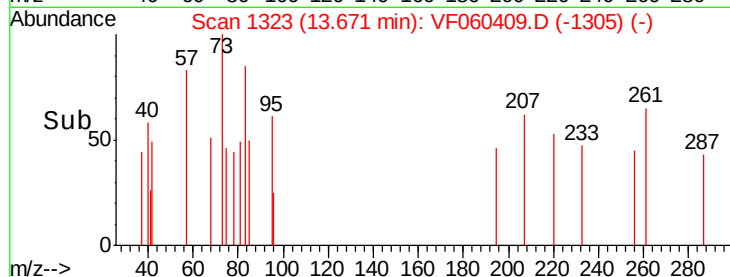
Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 43.543 ug/l

RT: 14.19 min Scan# 1376

Delta R.T. -0.06 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

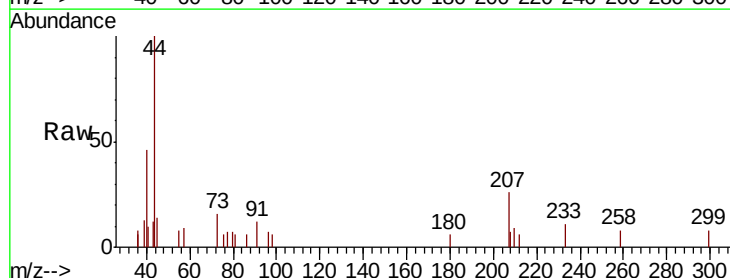
Tgt Ion: 180 Resp: 63

Ion Ratio Lower Upper

180 100

182 0.0 50.3 150.9#

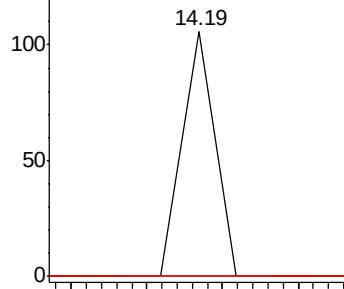
145 0.0 15.5 46.5#



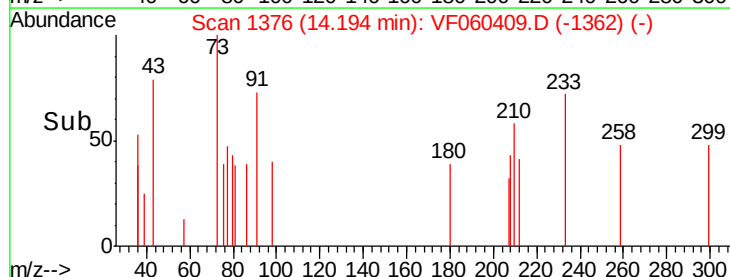
Abundance Ion 180.00 (179.70 to 180.70): V

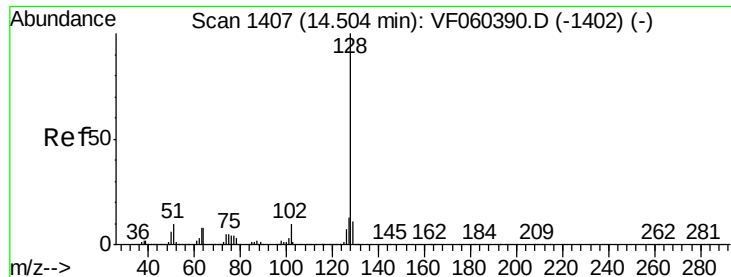
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



Time-->





#95

Naphthalene

Concen: 28.219 ug/l

RT: 14.51 min Scan# 1408

Delta R.T. 0.01 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

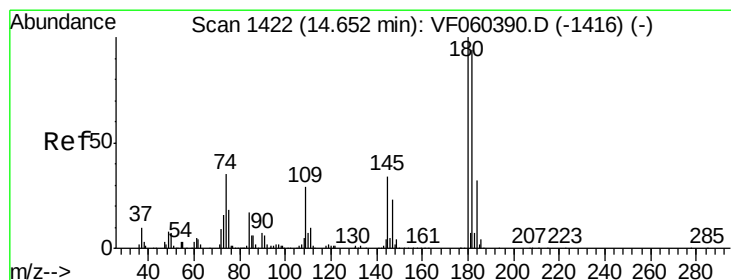
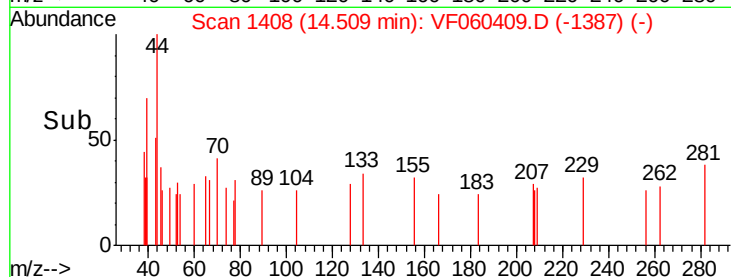
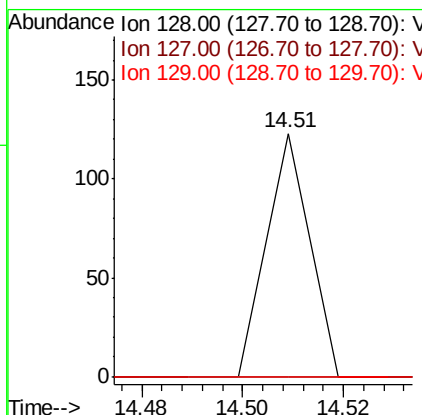
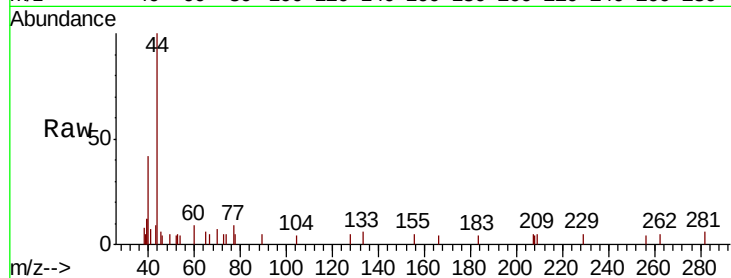
Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-5RE

Tot Ion:	128	Resp:	73
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.0	15.0#
129	0.0	8.7	13.1#



#96

1,2,3-Trichlorobenzene

Concen: 90.690 ug/l

RT: 14.64 min Scan# 1421

Delta R.T. -0.01 min

Lab File: VF060409.D

Acq: 2 Oct 2018 18:27

Tgt Ion:	180	Resp:	123
Ion	Ratio	Lower	Upper
180	100		
182	0.0	46.8	140.3#
145	0.0	16.9	50.6#

