

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						
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

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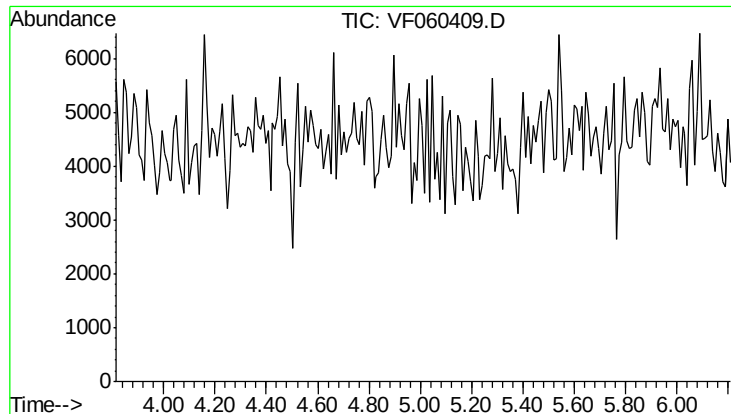
Instrument :
 MSVOA_F
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

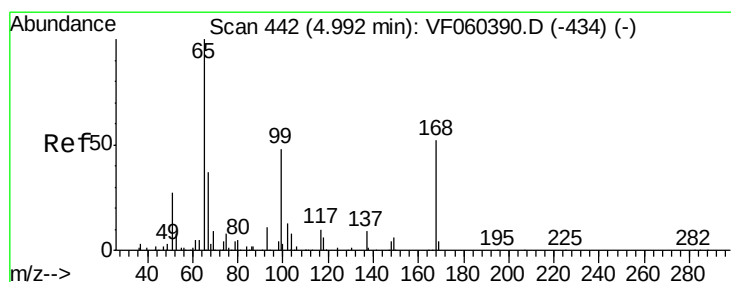
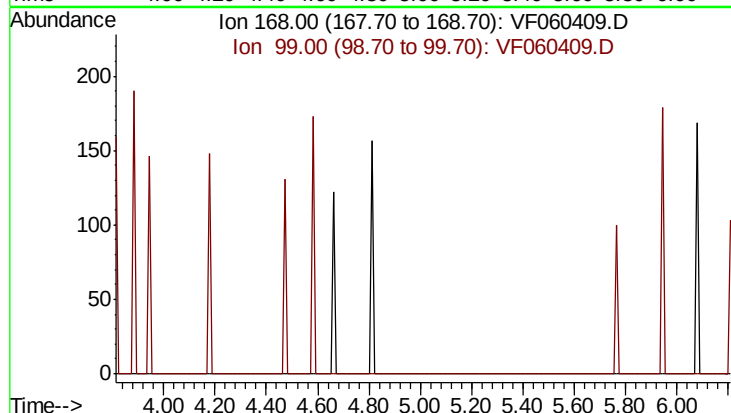
99 81.6

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

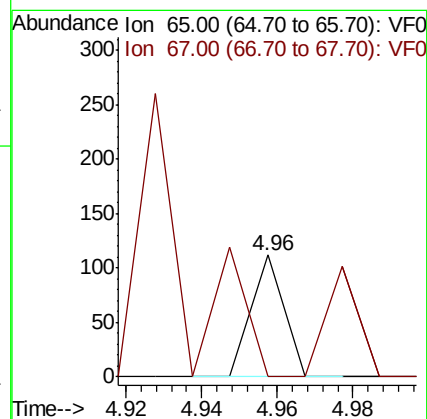
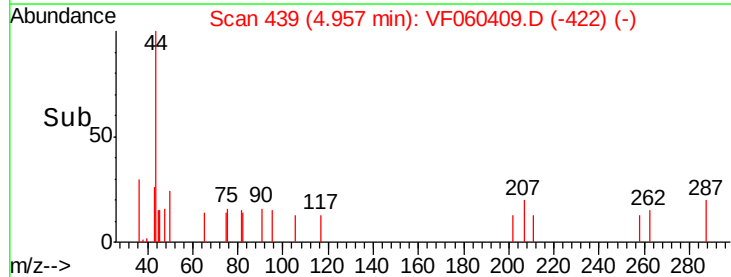
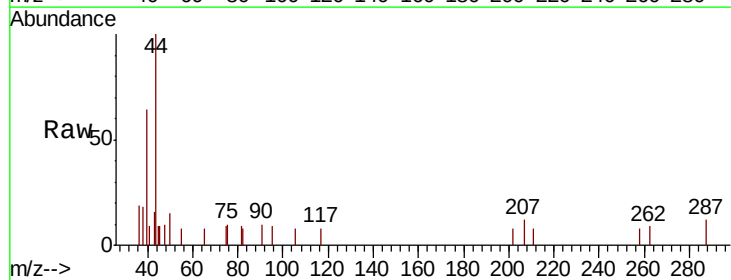
Acq: 2 Oct 2018 18:27

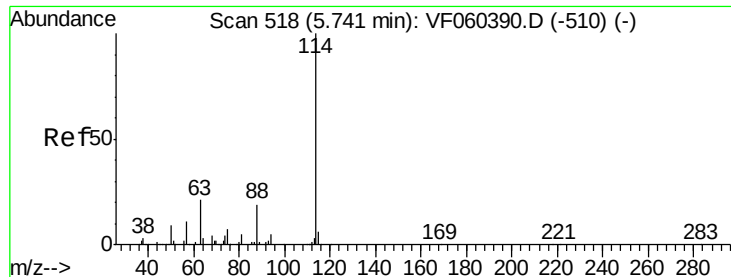
Tgt Ion: 65 Resp: 66

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

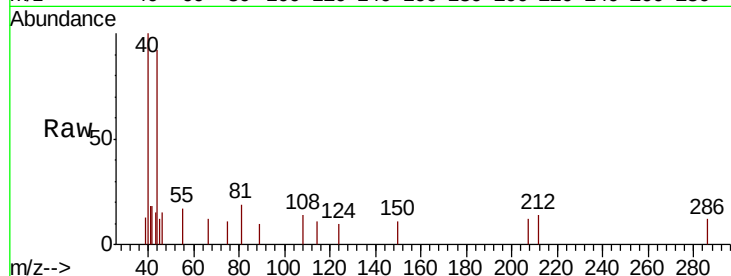
Tot Ion:114 Resp: 66

Ion Ratio Lower Upper

114 100

63 0.0 0.0 42.2

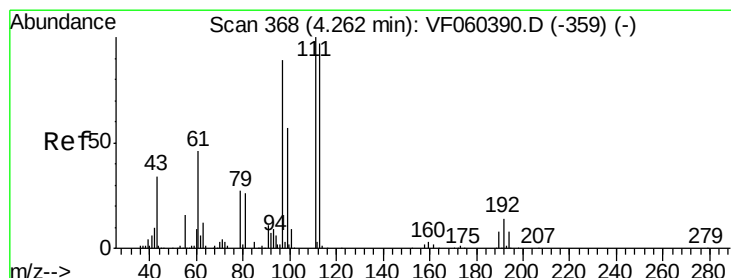
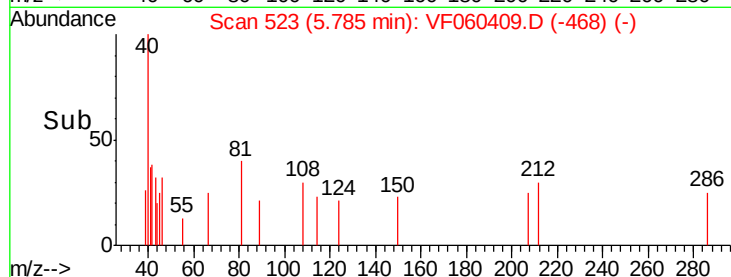
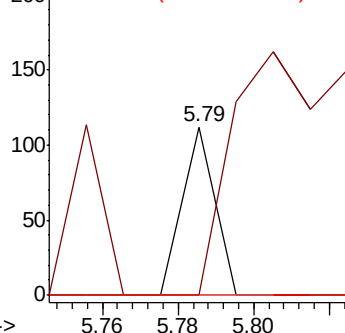
88 0.0 0.0 38.8



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

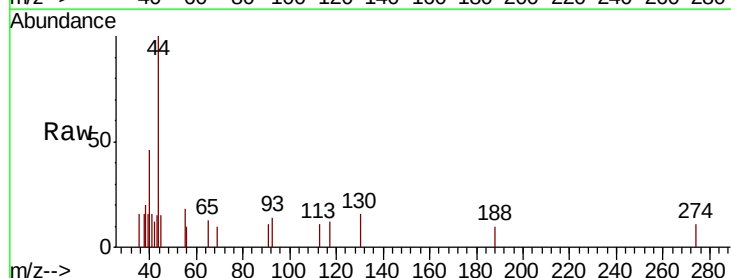
Tgt Ion:113 Resp: 66

Ion Ratio Lower Upper

113 100

111 0.0 82.3 123.5#

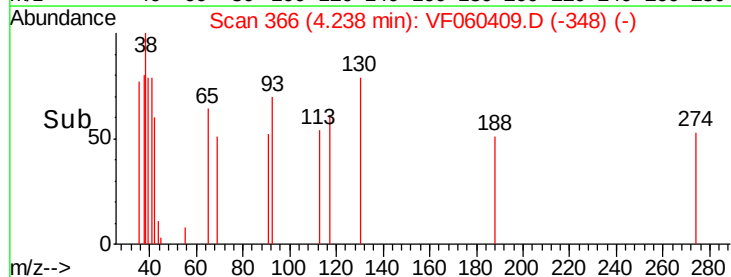
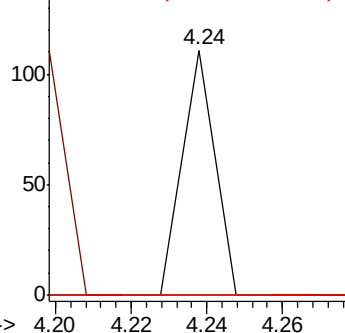
192 0.0 11.8 17.6#

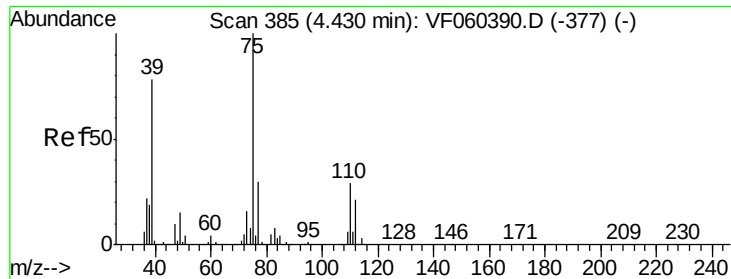


Abundance Ion 113.00 (112.70 to 113.70): V

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

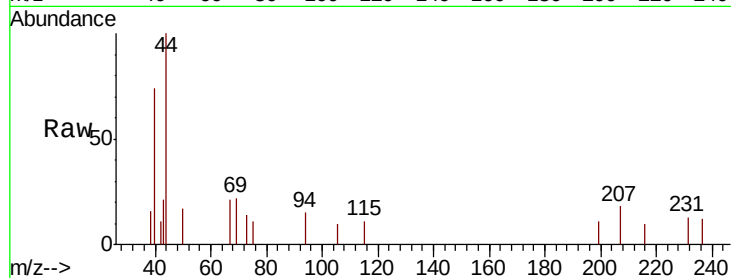
Tot Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

110 0.0 14.5 43.6#

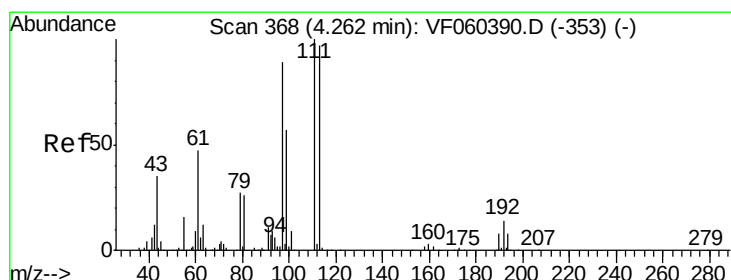
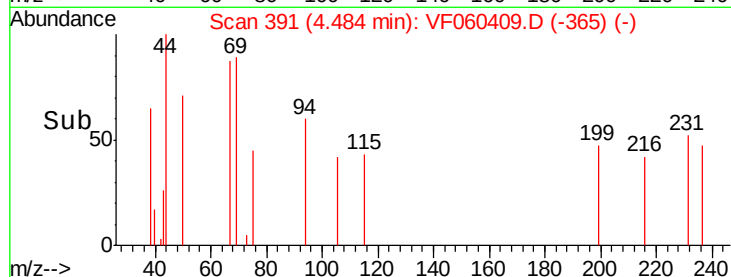
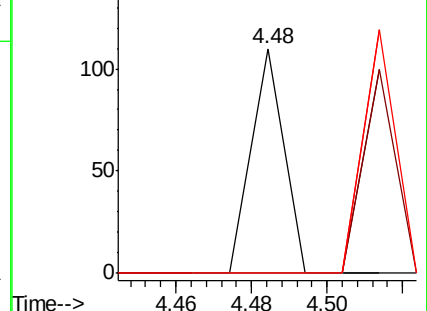
77 0.0 24.3 36.5#



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

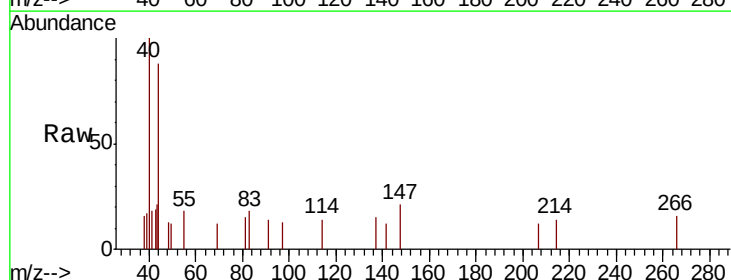
Tgt Ion: 43 Resp: 298

Ion Ratio Lower Upper

43 100

61 0.0 105.1 157.7#

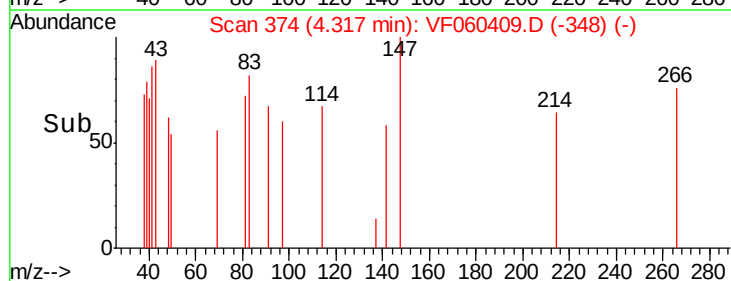
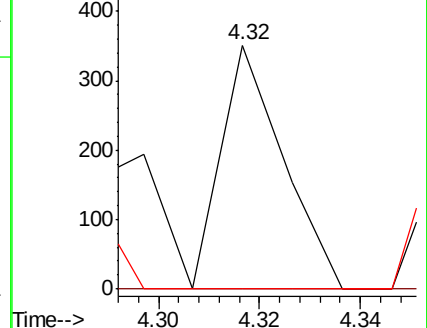
70 0.0 8.0 12.0#

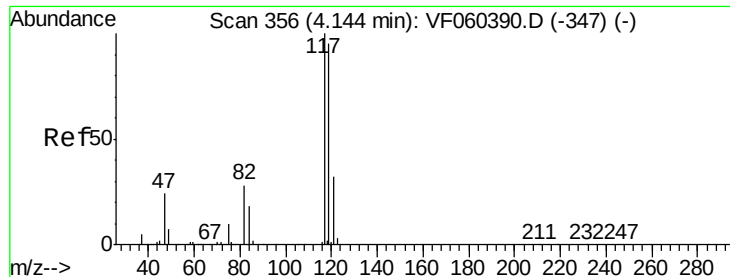


Abundance Ion 43.00 (42.70 to 43.70): VF0

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 :

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ClientSampleId :

HC-SOIL-5RE

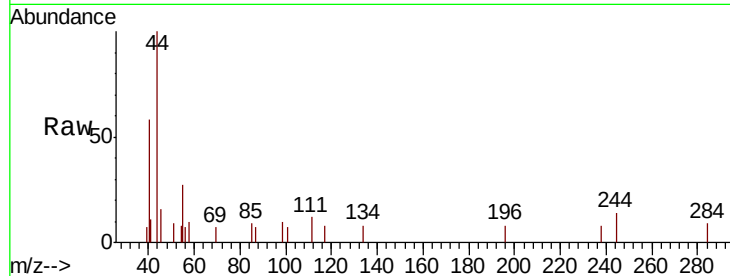
Tot Ion: 117 Resp: 67

Ion Ratio Lower Upper

117 100

119 0.0 75.5 113.3#

121 0.0 25.4 38.0#

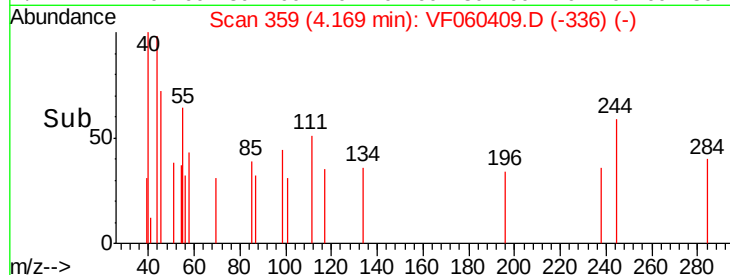


Abundance Ion 117.00 (116.70 to 117.70): V

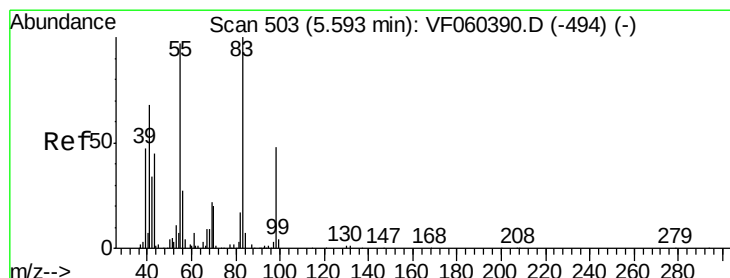
Ion 119.00 (118.70 to 119.70): V

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

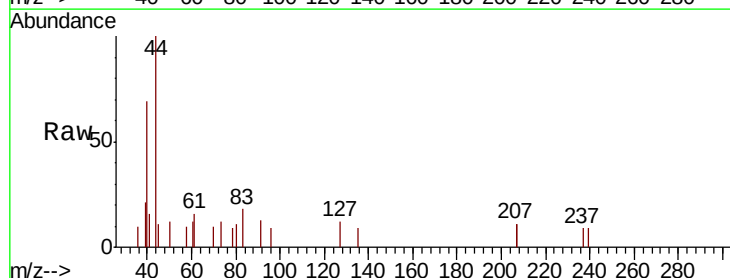
Tgt Ion: 83 Resp: 131

Ion Ratio Lower Upper

83 100

55 0.0 77.5 116.3#

98 0.0 38.7 58.1#

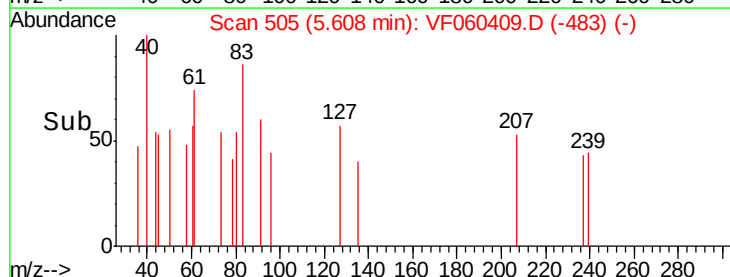


Abundance Ion 83.00 (82.70 to 83.70): VF0

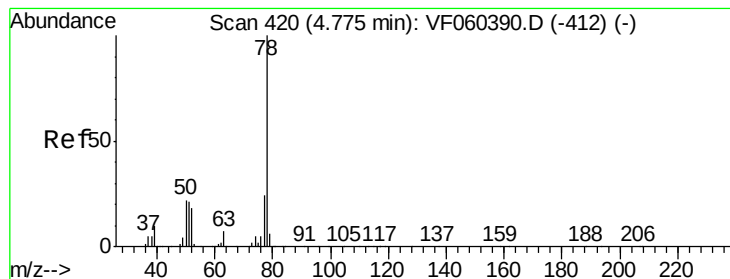
Ion 55.00 (54.70 to 55.70): VF0

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 :

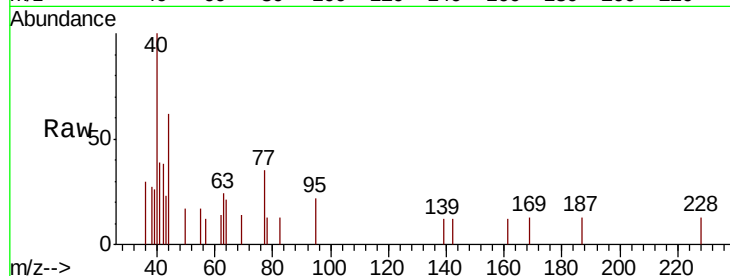
HC-SOIL-5RE

Tot Ion: 78 Resp: 63

Ion Ratio Lower Upper

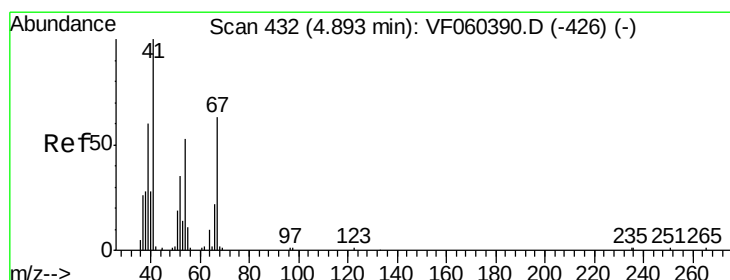
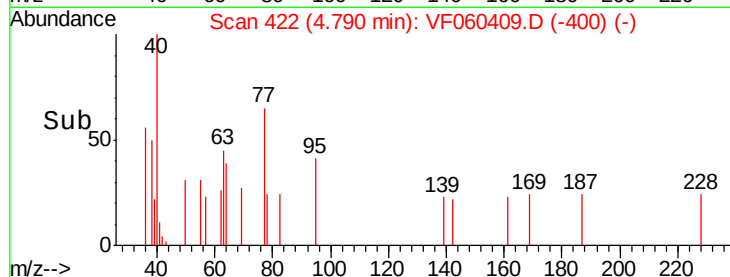
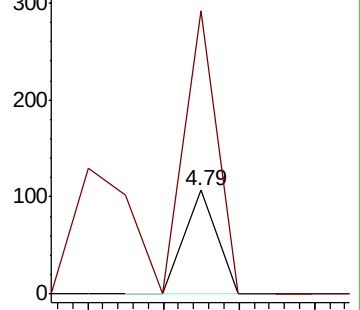
78 100

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

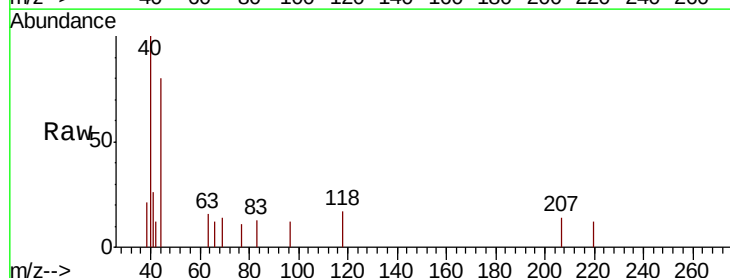
Ion Ratio Lower Upper

41 100

39 0.0 55.0 82.4#

67 0.0 49.6 74.4#

52 0.0 38.8 58.2#

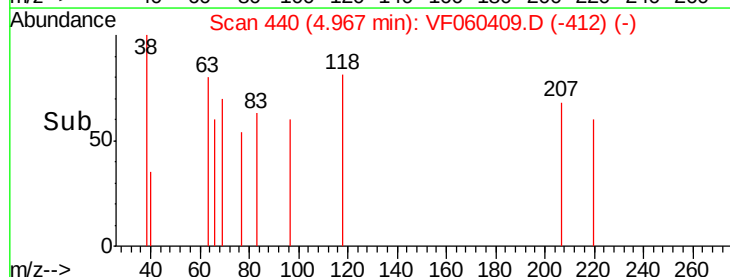
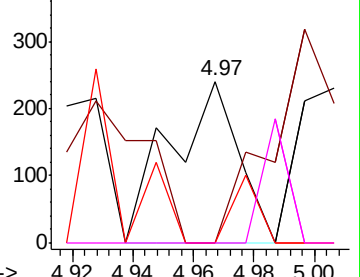


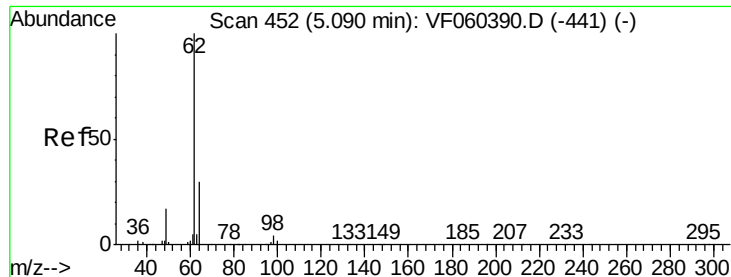
Abundance Ion 41.00 (40.70 to 41.70): VF0

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

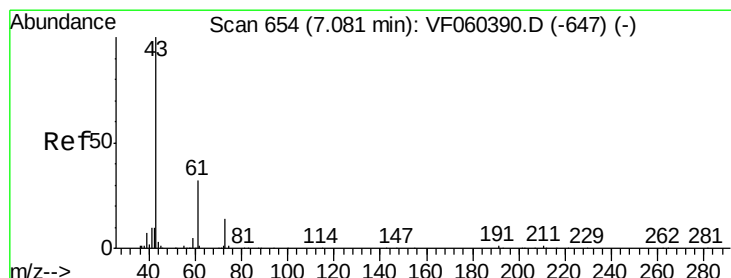
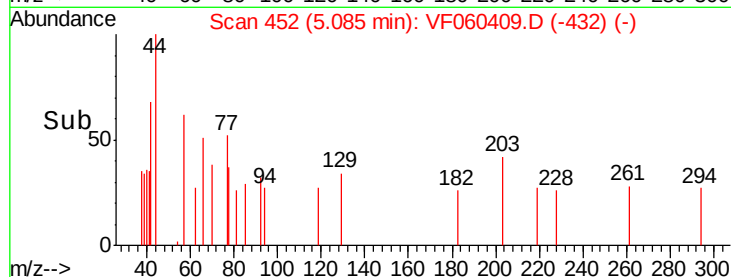
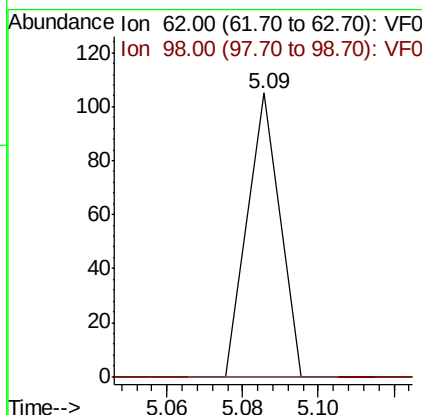
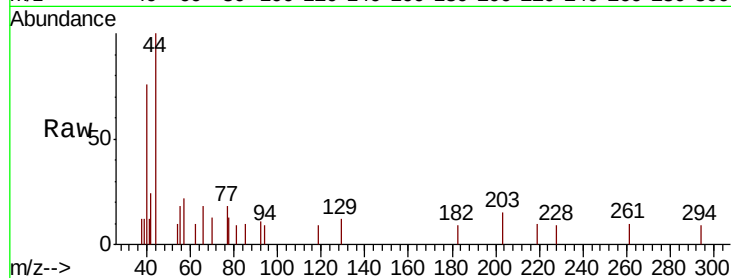




#42
 1,2-Dichloroethane
 Concen: 80.449 ug/l
 RT: 5.09 min Scan# 452
 Delta R.T. -0.00 min
 Lab File: VF060409.D
 Acq: 2 Oct 2018 18:27

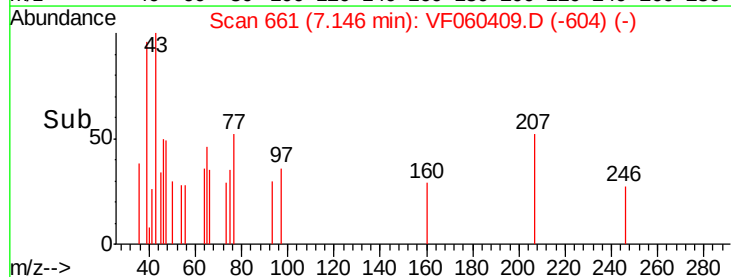
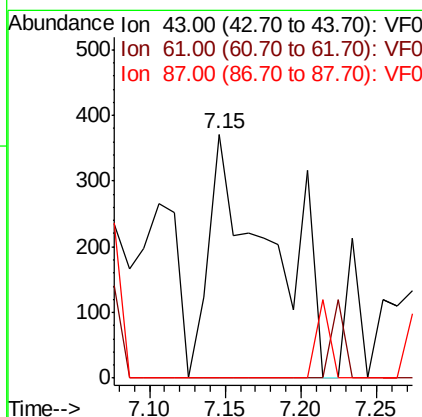
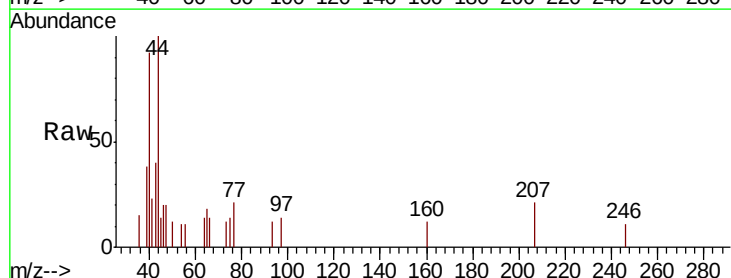
Instrument :
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 HC-SOIL-5RE

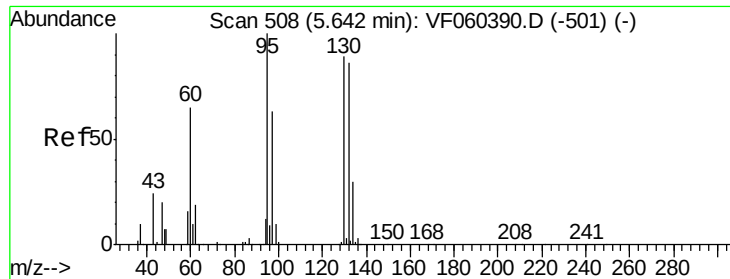
Tot Ion: 62 Resp: 62
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 11.2



#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

ClientSampleId :

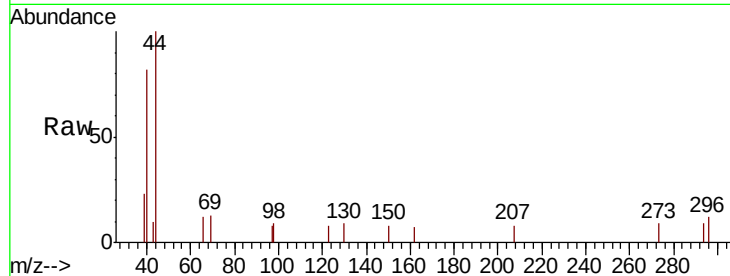
HC-SOIL-5RE

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): VF0

Ion 94.90 (94.60 to 95.60): VF0

5.68

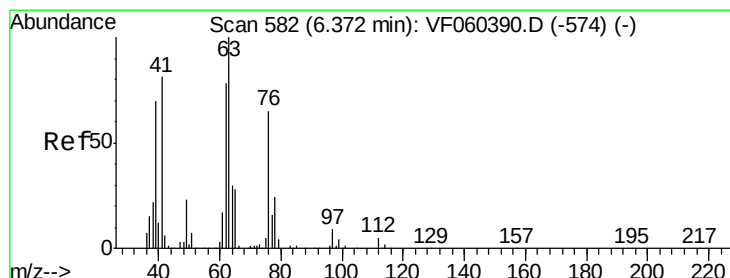
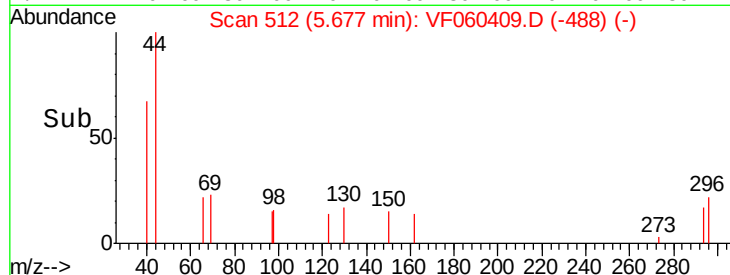
100

50

0

5.64 5.66 5.68 5.70

Time-->



#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

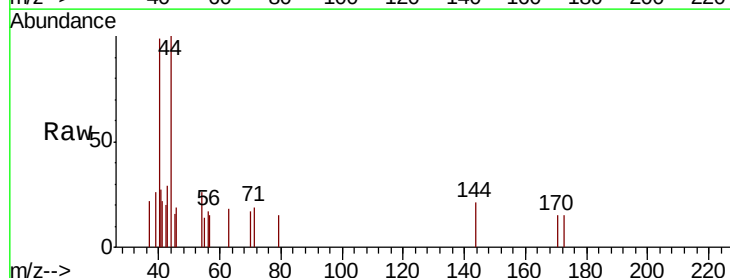
Acq: 2 Oct 2018 18:27

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

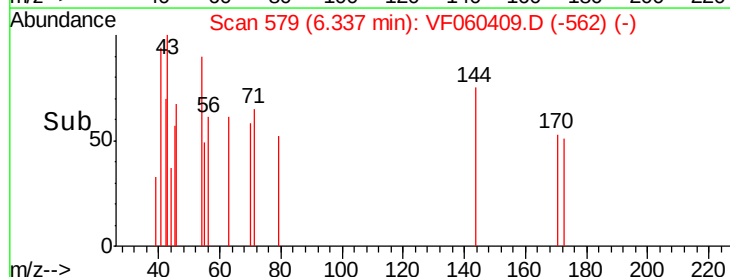
100

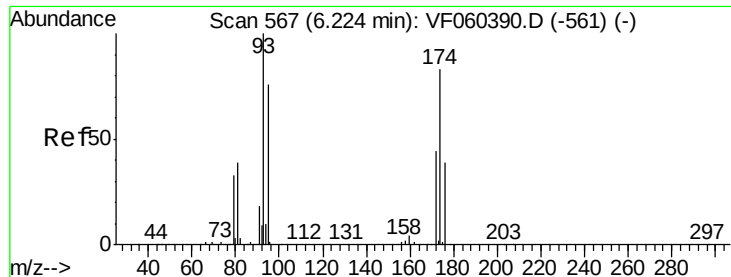
50

0

6.32 6.34 6.36

Time-->

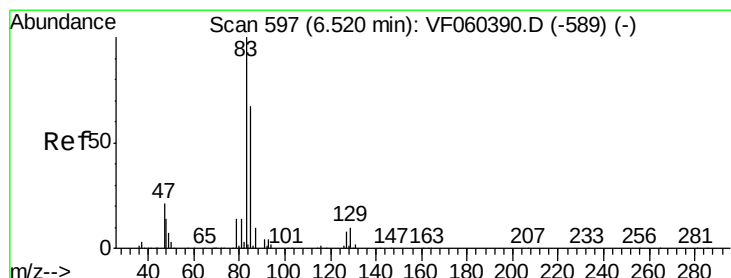
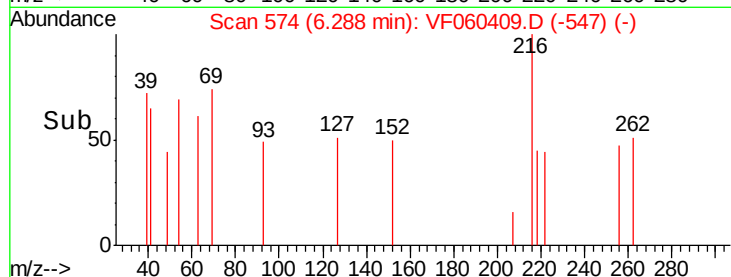
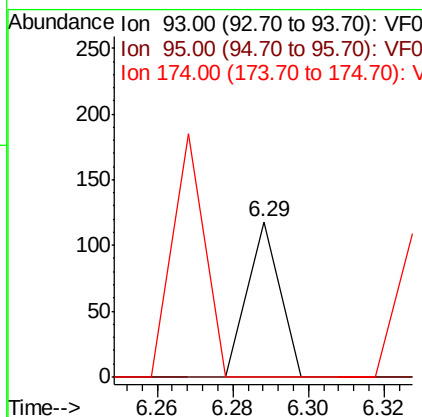
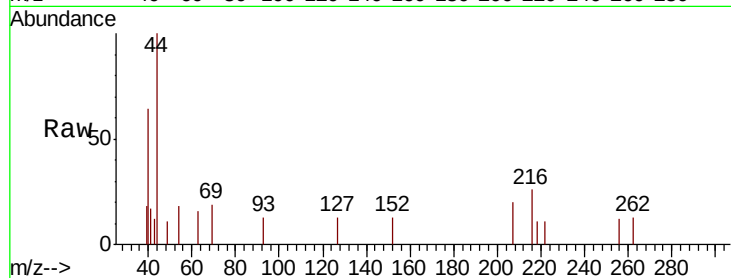




#46
Dibromomethane
Concen: 202.381 ug/l
RT: 6.29 min Scan# 574
Delta R.T. 0.06 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

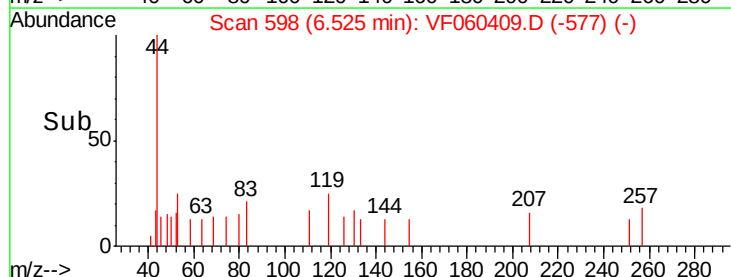
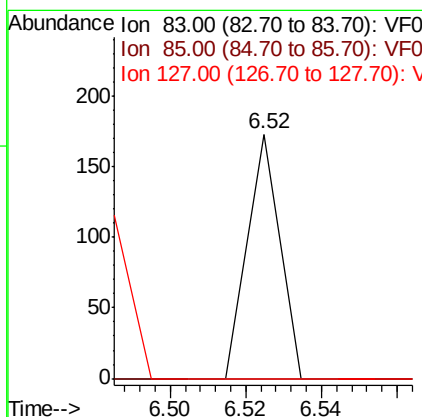
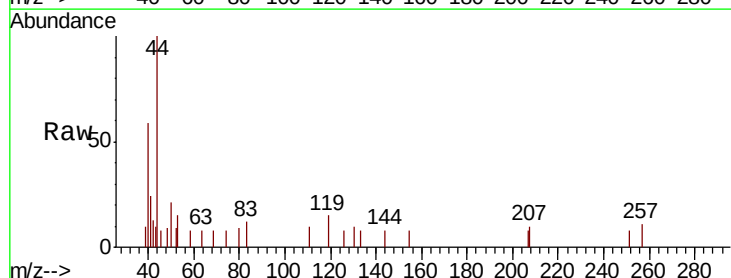
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5RE

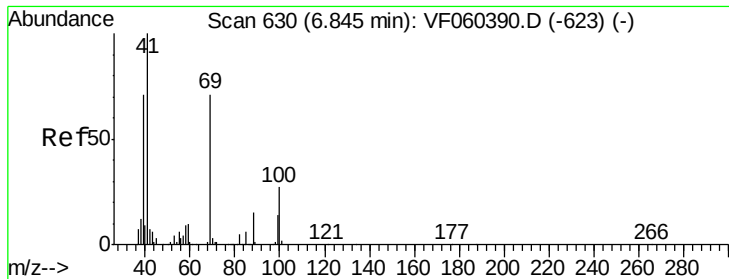
Tot Ion: 93 Resp: 70
Ion Ratio Lower Upper
93 100
95 0.0 61.1 91.7#
174 0.0 66.7 100.1#



#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#

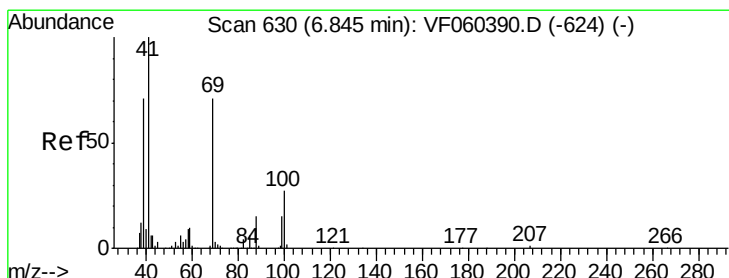
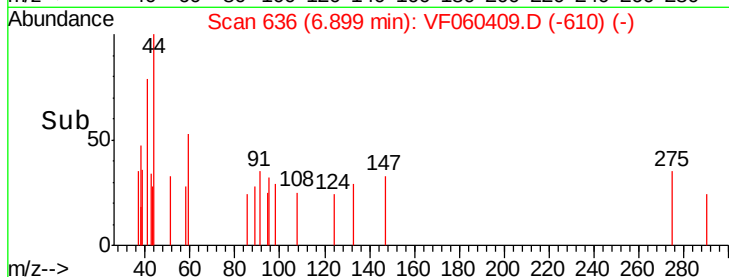
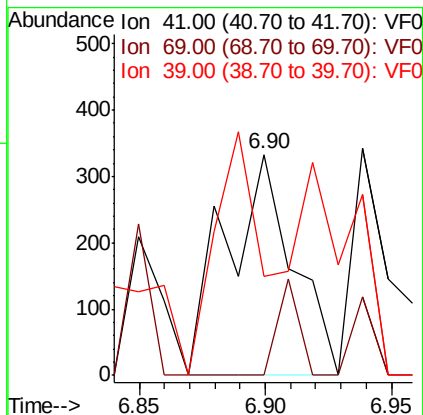
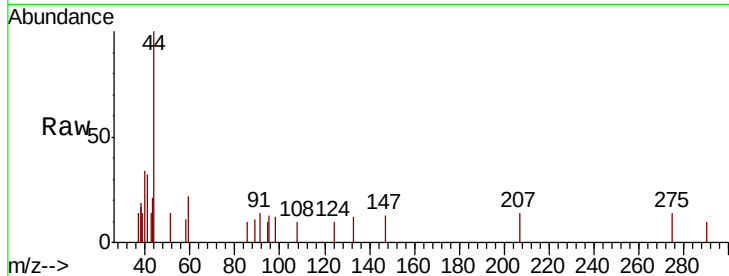




#48
Methyl methacrylate
Concen: 2278.815 ug/l
RT: 6.90 min Scan# 636
Delta R.T. 0.05 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

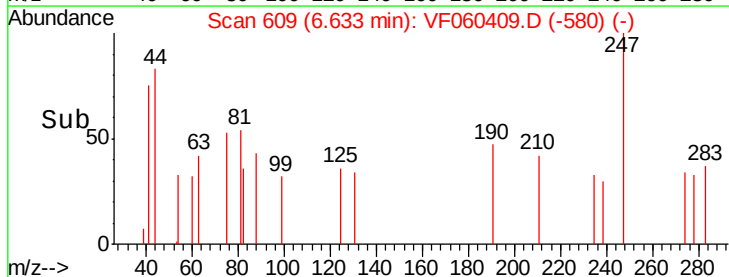
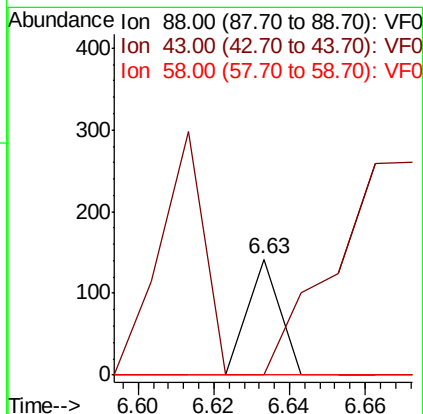
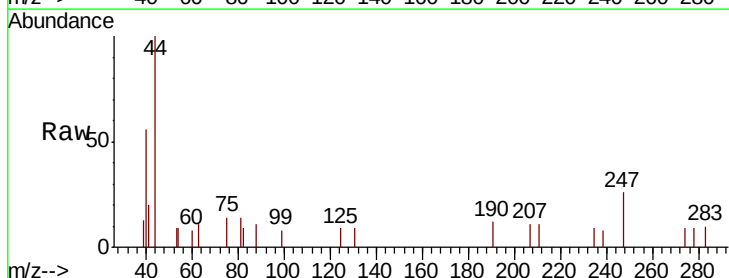
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5RE

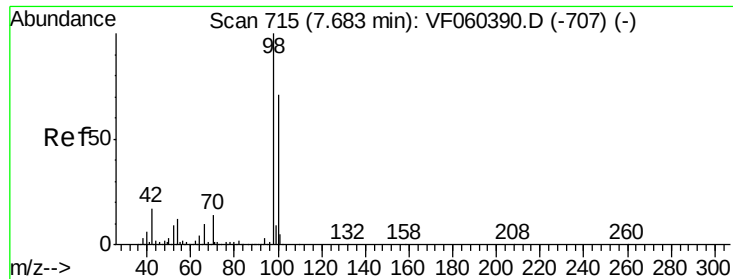
Tot Ion: 41 Resp: 616
Ion Ratio Lower Upper
41 100
69 0.0 56.3 84.5#
39 45.0 56.9 85.3#



#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#

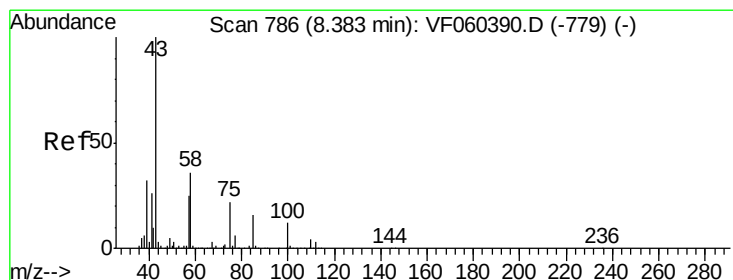
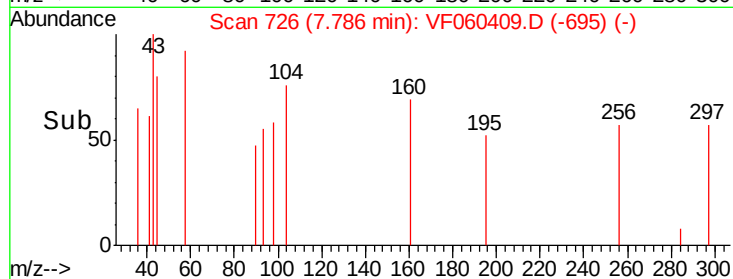
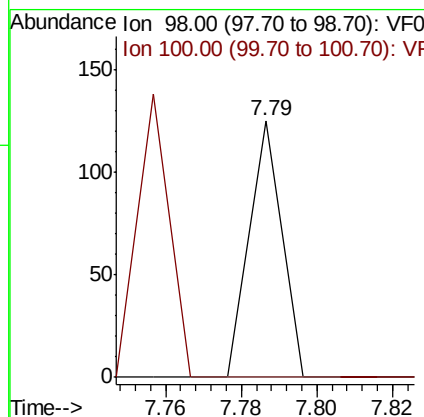
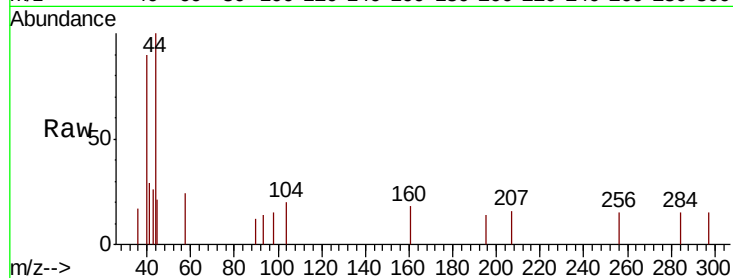




#50
Toluene-d8
Concen: 48.461 ug/l
RT: 7.79 min Scan# 726
Delta R.T. 0.10 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

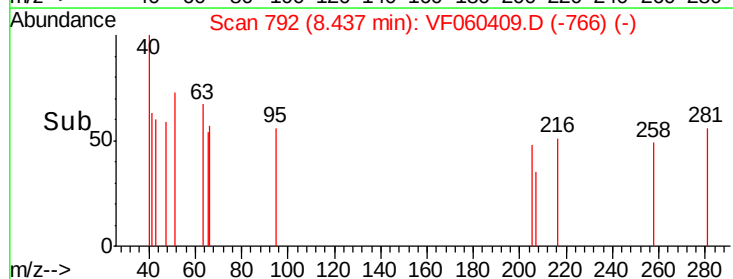
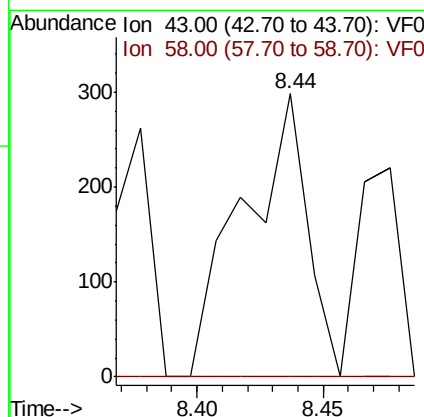
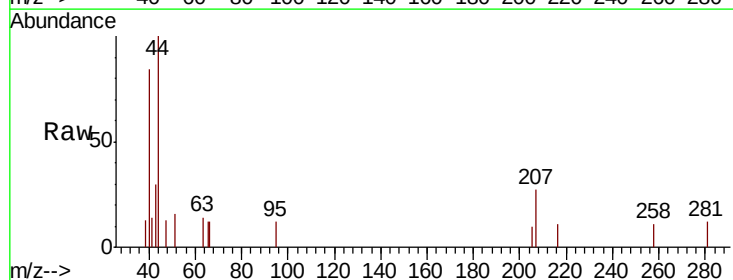
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5RE

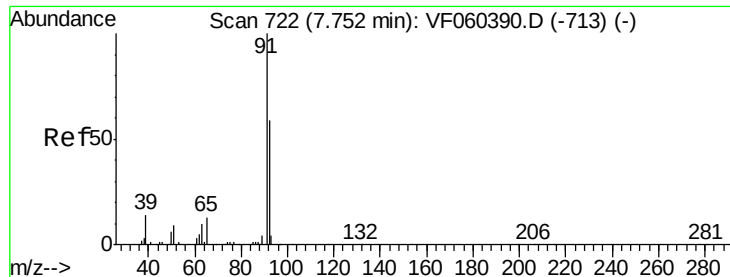
Tot Ion: 98 Resp: 74
Ion Ratio Lower Upper
98 100
100 0.0 56.5 84.7#



#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

ClientSampled :

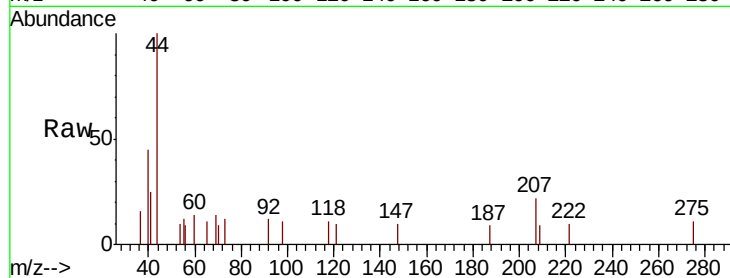
HC-SOIL-5RE

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

300

200

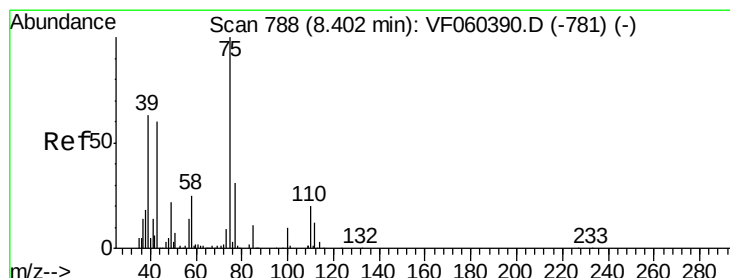
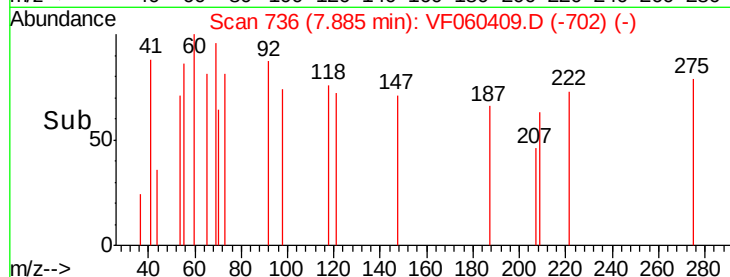
100

0

7.86 7.88 7.90

7.88

Time-->



#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

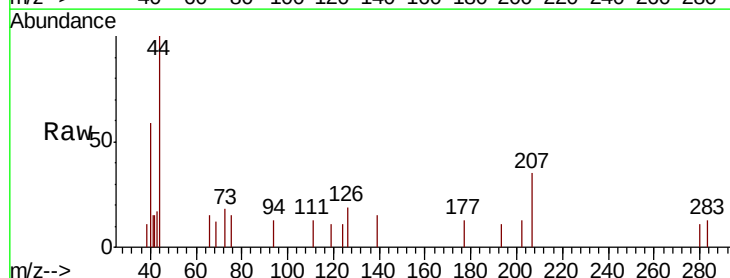
Acq: 2 Oct 2018 18:27

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

150

100

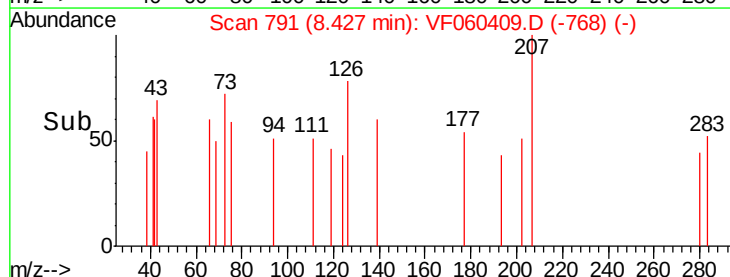
50

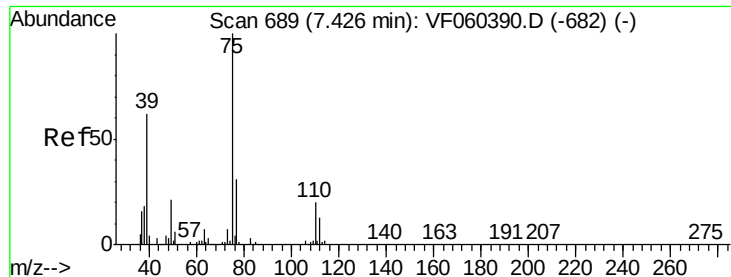
0

8.40 8.42 8.44 8.46

8.43

Time-->





#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

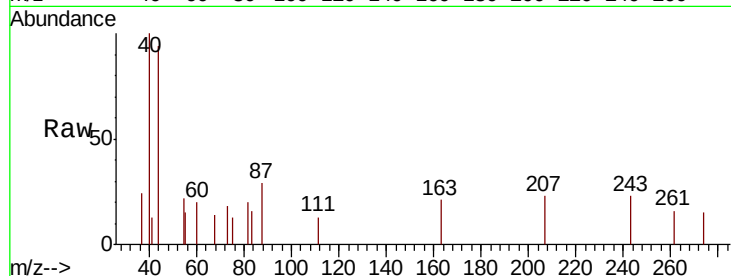
Tot Ion: 75 Resp: 66

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

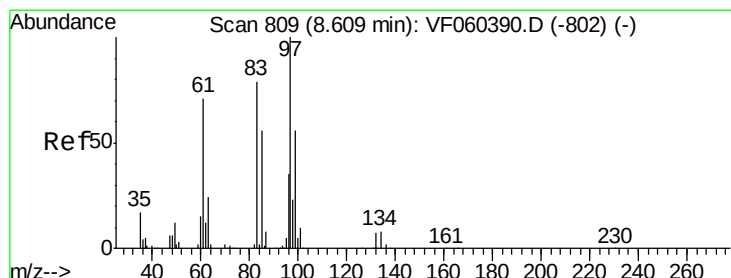
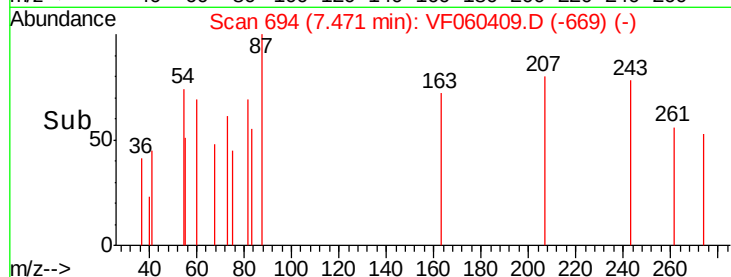
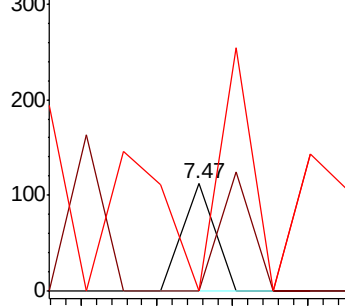
39 0.0 49.7 74.5#



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

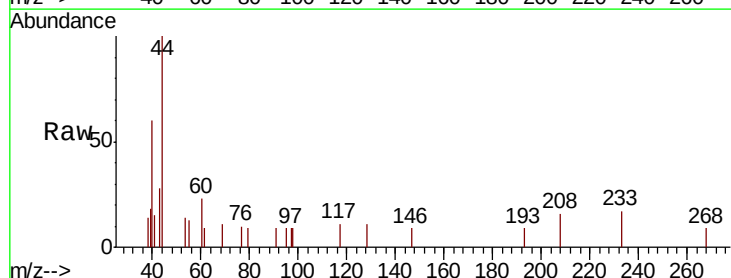
Ion Ratio Lower Upper

97 100

83 0.0 63.4 95.0#

85 0.0 44.5 66.7#

99 0.0 45.1 67.7#

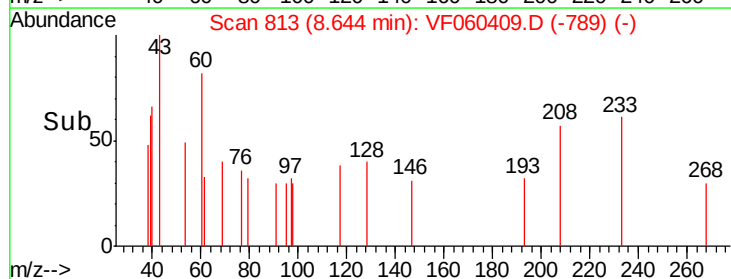
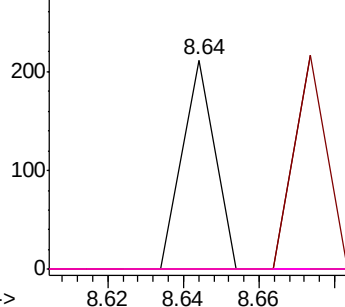


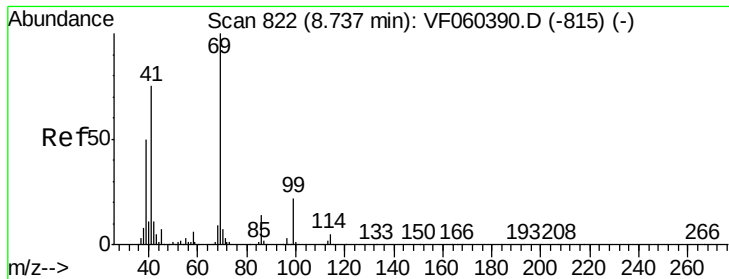
Abundance Ion 97.00 (96.70 to 97.70): VF0

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

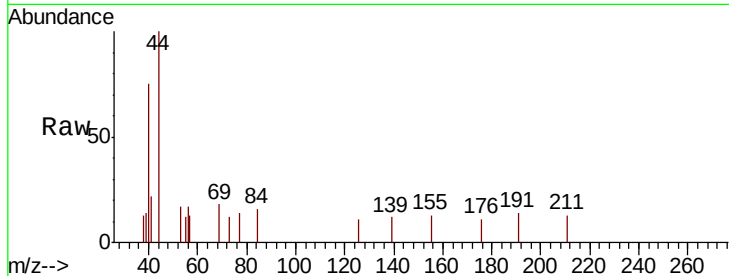
Tot Ion: 69 Resp: 102

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

400

300

200

100

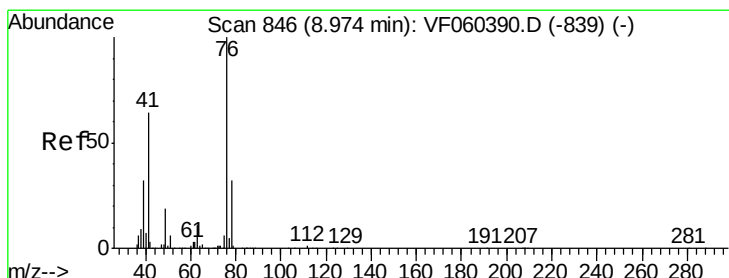
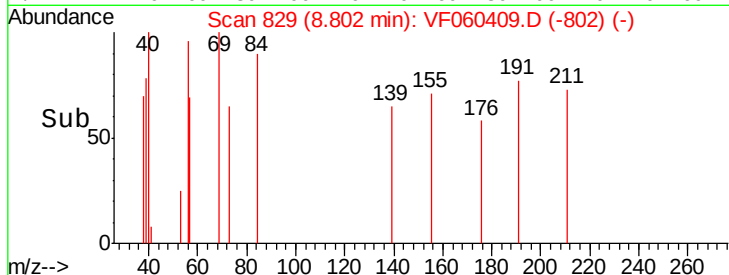
0

8.78

8.80

8.82

Time-->



#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

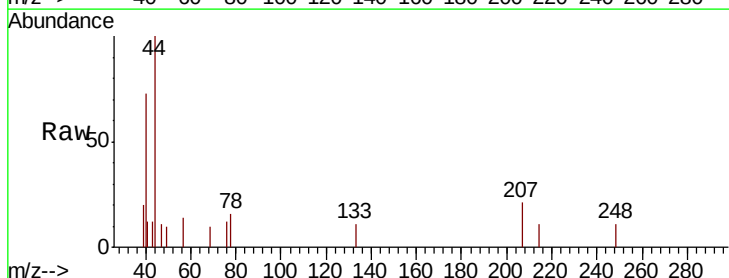
Acq: 2 Oct 2018 18:27

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

250

200

150

100

50

0

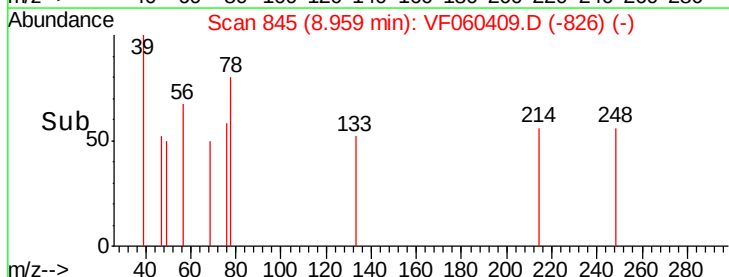
8.92

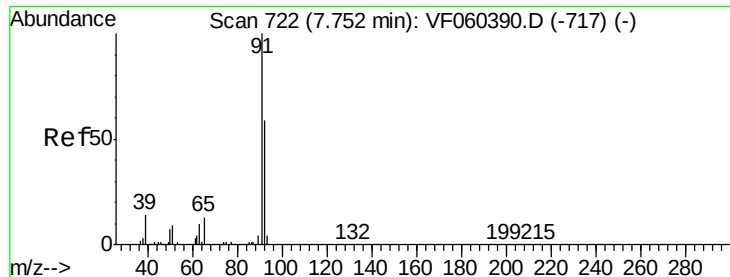
8.94

8.96

8.98

Time-->





#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 :

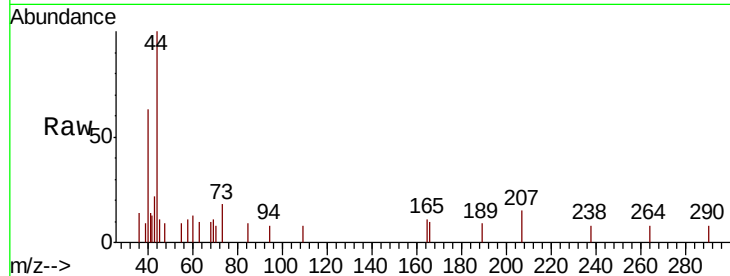
HC-SOIL-5RE

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

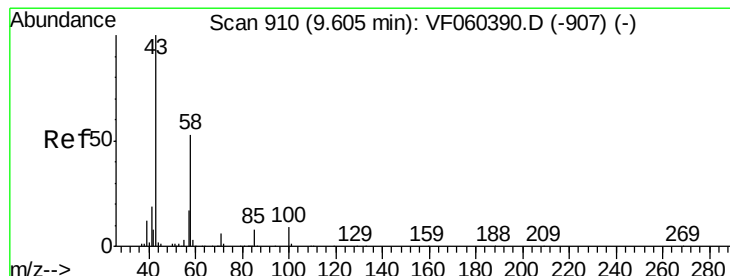
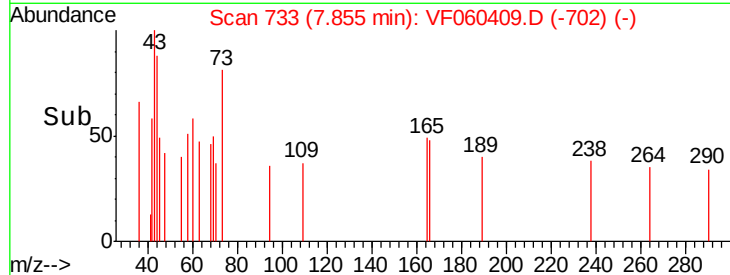
100

50

0

7.82 7.84 7.86 7.88

Time-->



#59

2-Hexanone

Concen: 2207.316 ug/l

RT: 9.74 min Scan# 924

Delta R.T. 0.13 min

Lab File: VF060409.D

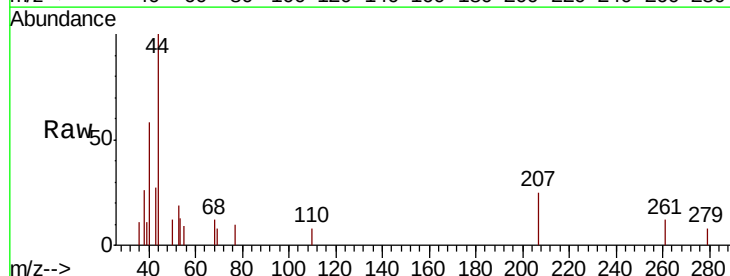
Acq: 2 Oct 2018 18:27

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

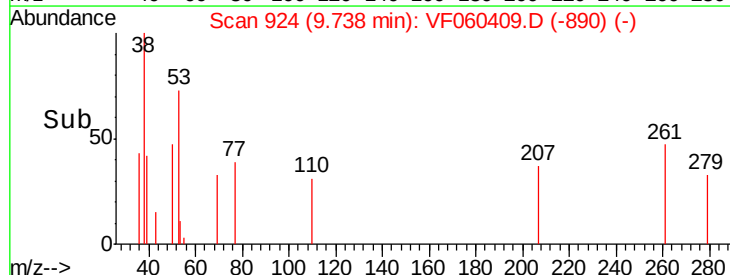
200

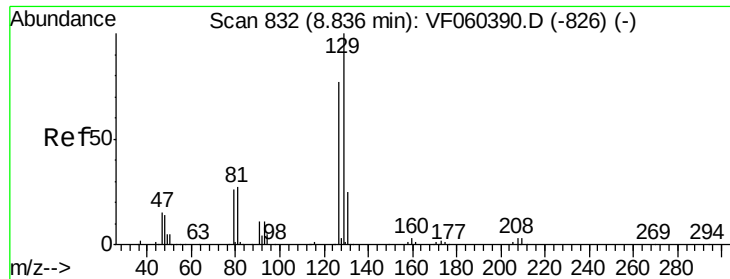
100

0

9.70 9.75

Time-->





#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 :

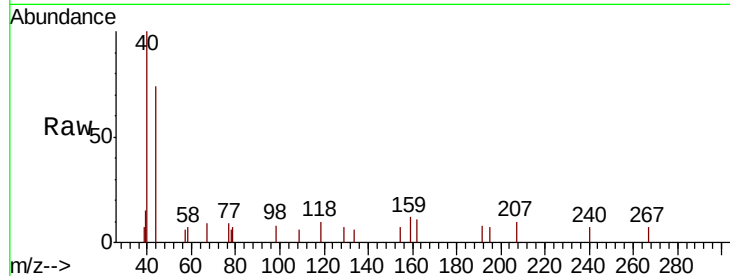
HC-SOIL-5RE

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

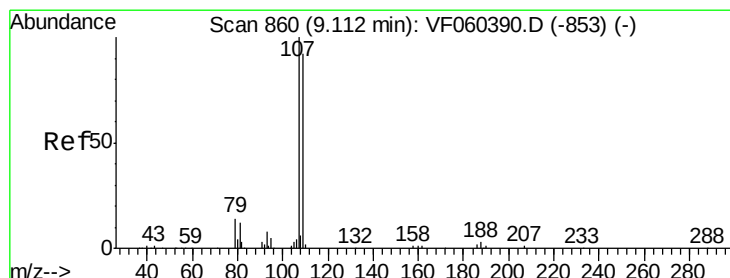
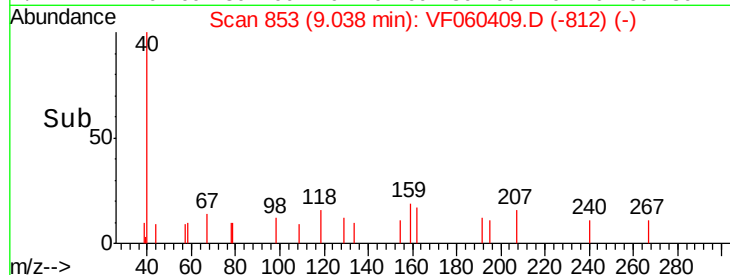
9.04

100

50

0

Time--> 9.00 9.02 9.04 9.06



#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

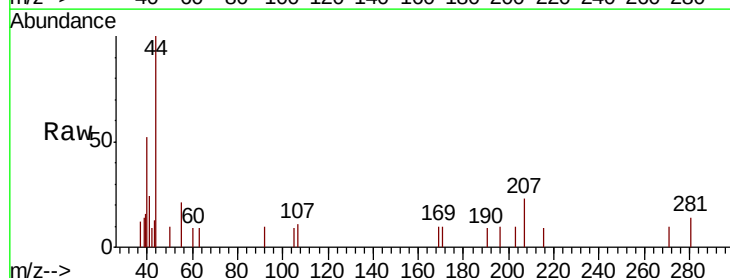
Acq: 2 Oct 2018 18:27

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

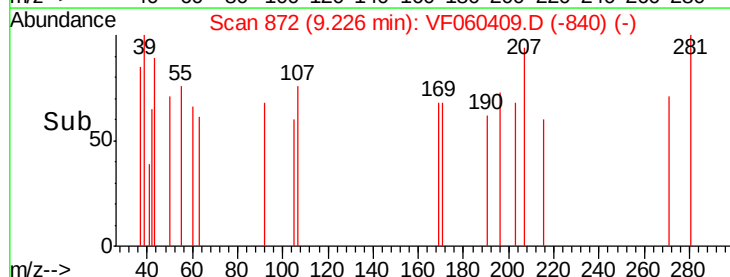
150

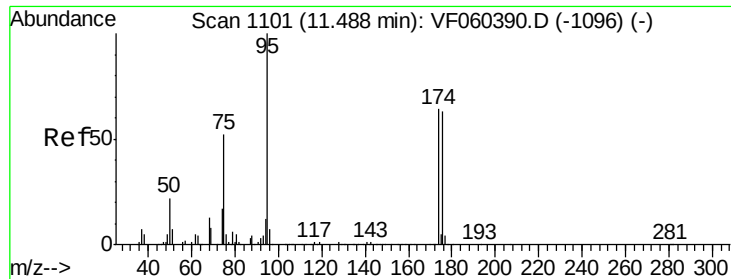
100

50

0

Time--> 9.20 9.22 9.24

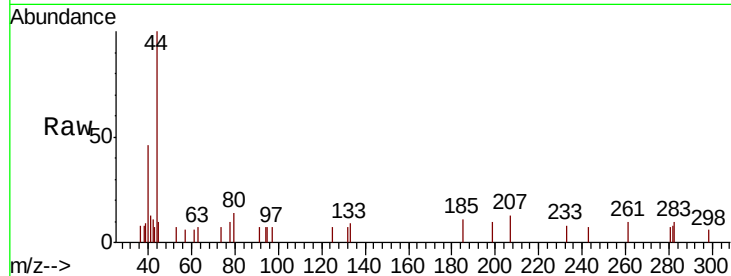




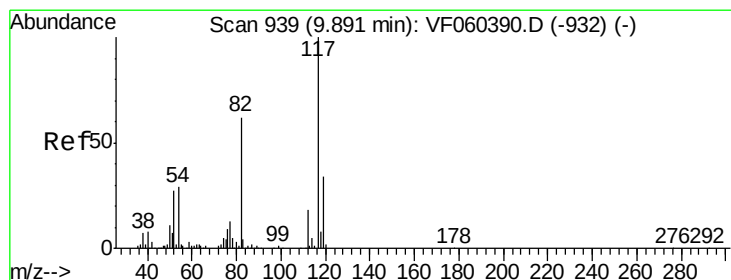
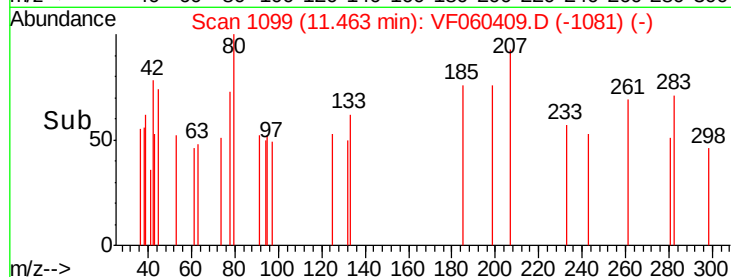
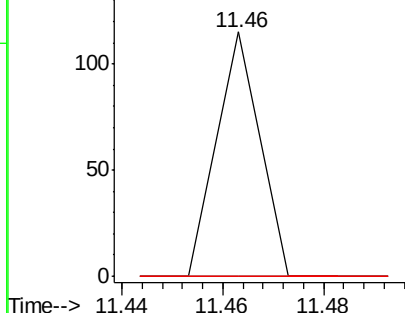
#62
4-Bromofluorobenzene
Concen: 97.530 ug/l
RT: 11.46 min Scan# 1099
Delta R.T. -0.02 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

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

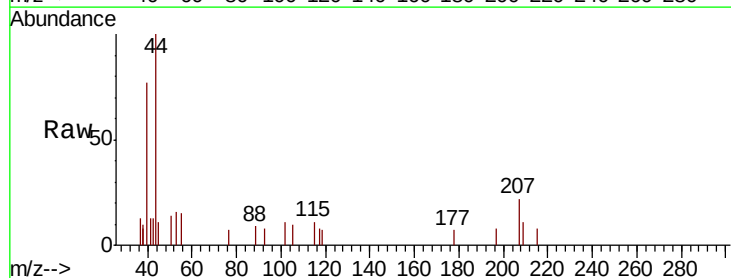


Abundance Ion 95.00 (94.70 to 95.70): VF0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V

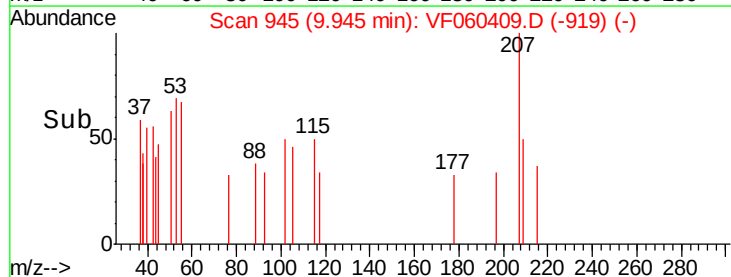
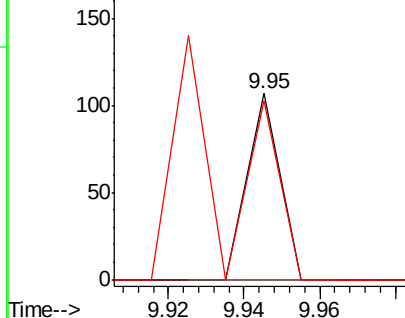


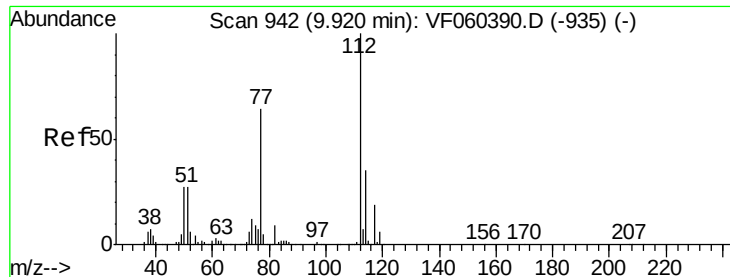
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.95 min Scan# 945
Delta R.T. 0.05 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

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



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

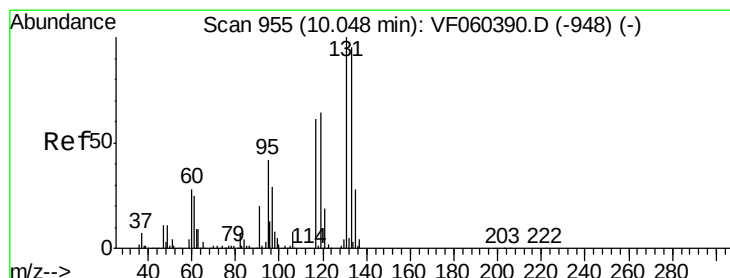
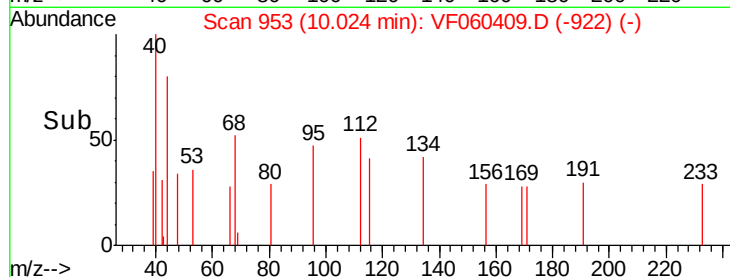
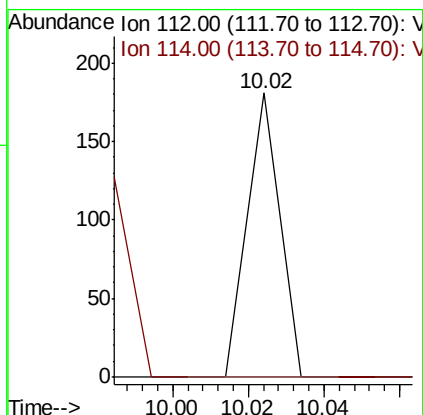
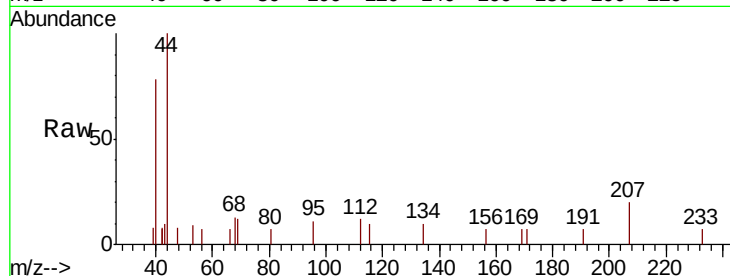




#65
Chlorobenzene
Concen: 82.680 ug/l
RT: 10.02 min Scan# 953
Delta R.T. 0.10 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

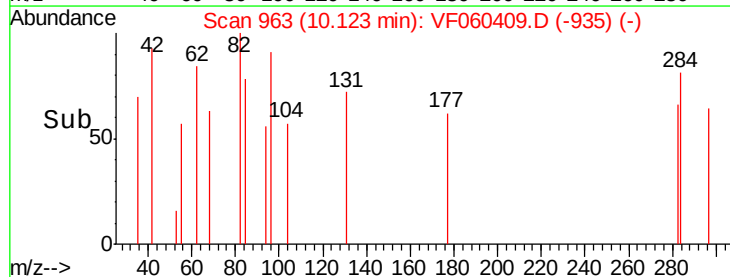
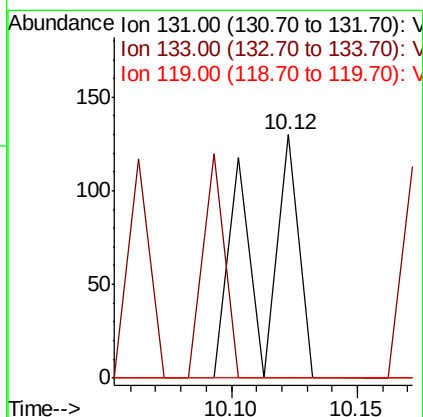
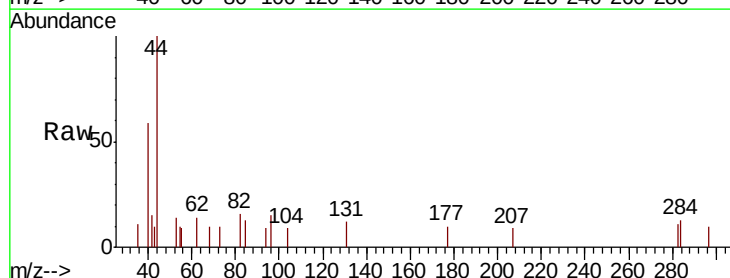
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5RE

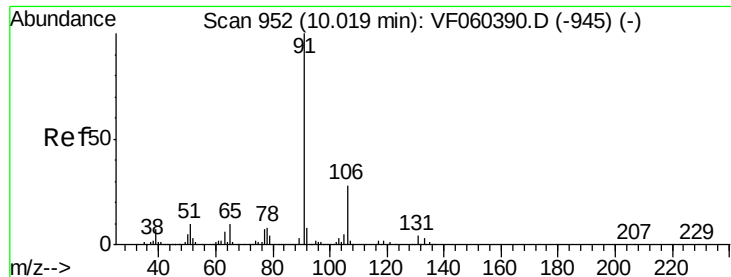
Tot Ion:112 Resp: 107
Ion Ratio Lower Upper
112 100
114 0.0 27.7 41.5#



#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#

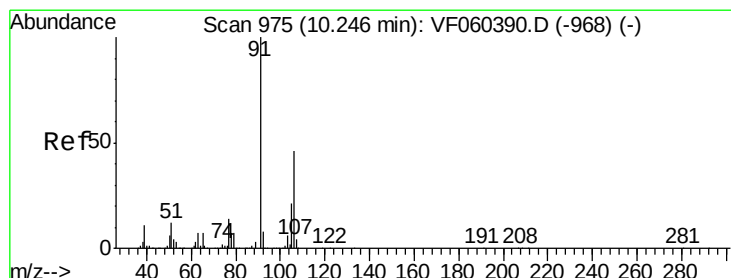
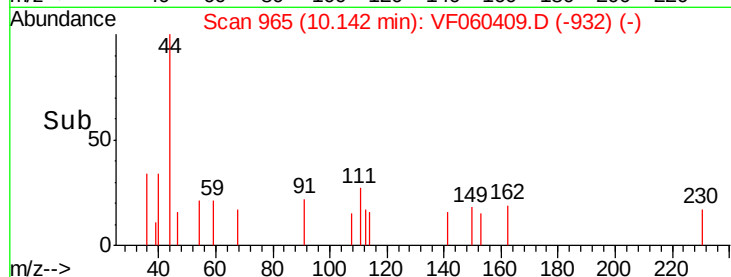
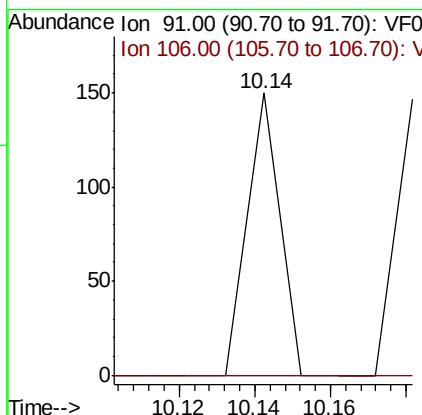
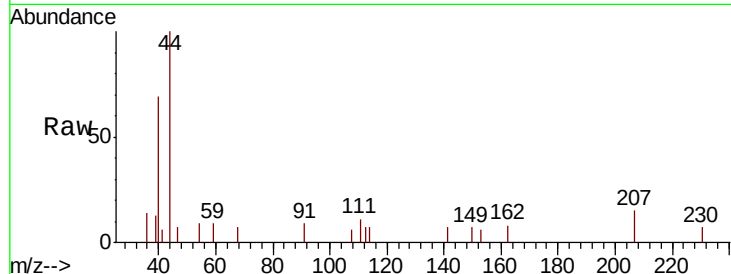




#67
Ethyl Benzene
Concen: 36.169 ug/l
RT: 10.14 min Scan# 965
Delta R.T. 0.12 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

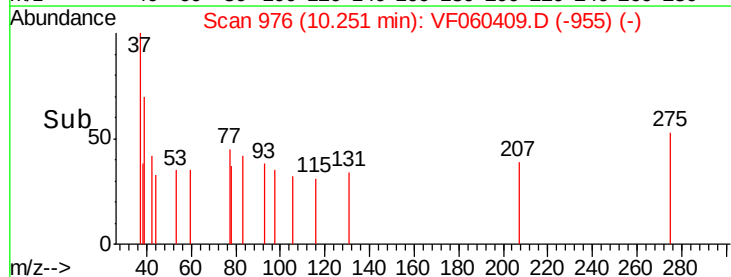
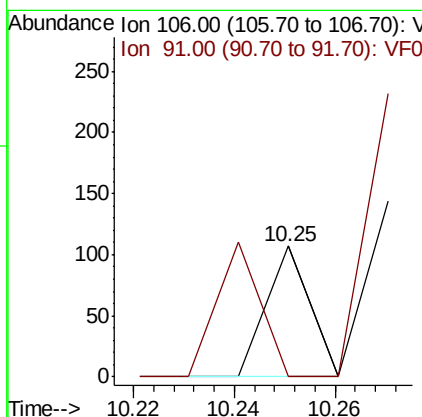
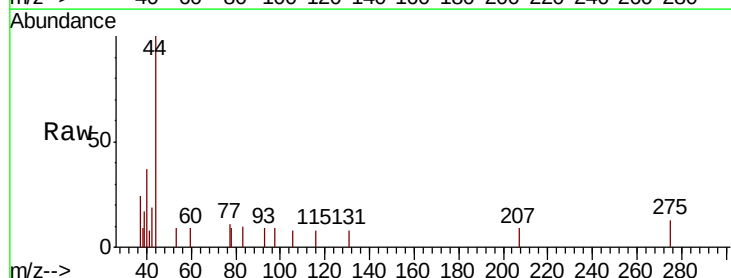
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-5RE

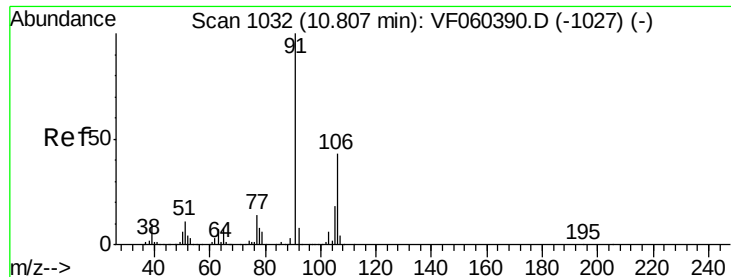
Tot Ion: 91 Resp: 89
Ion Ratio Lower Upper
91 100
106 0.0 22.5 33.7#



#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#

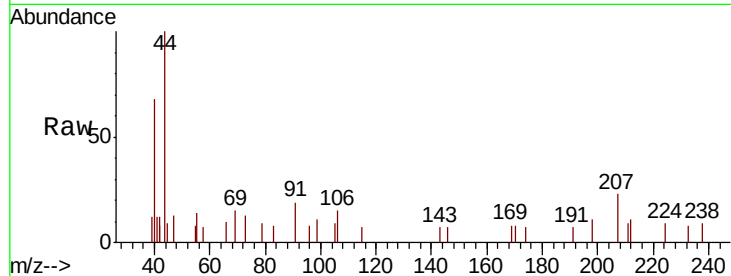




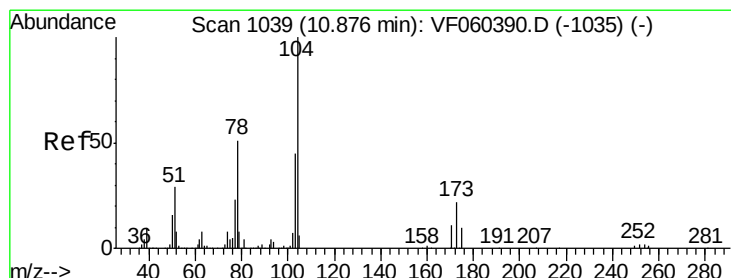
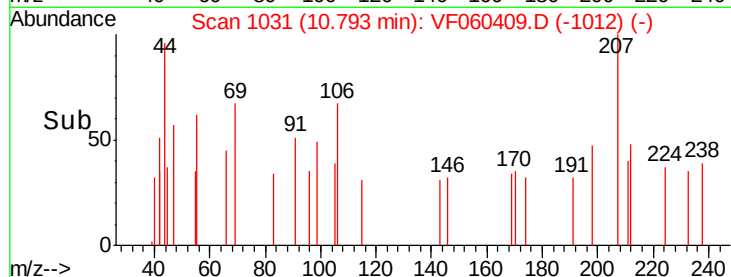
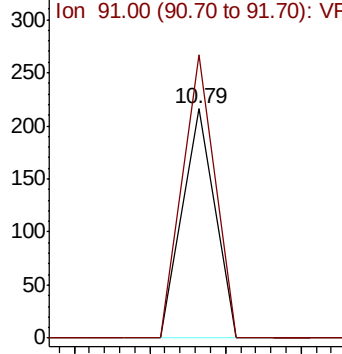
#69
o-Xylene
Concen: 138.824 ug/l
RT: 10.79 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

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

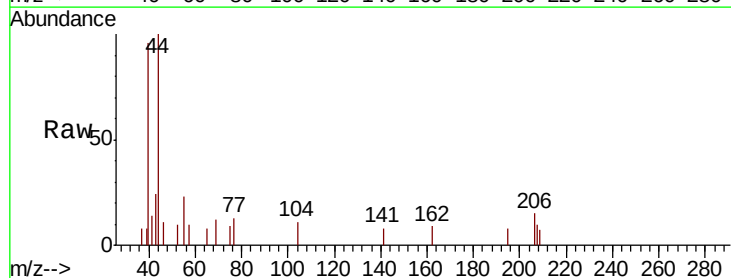


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

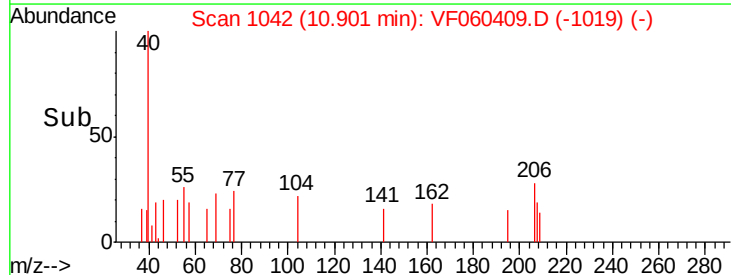
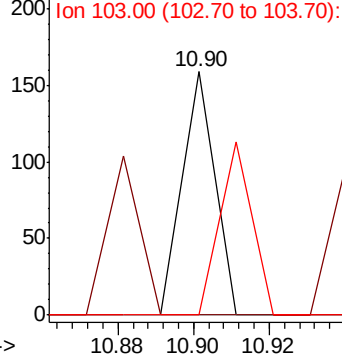


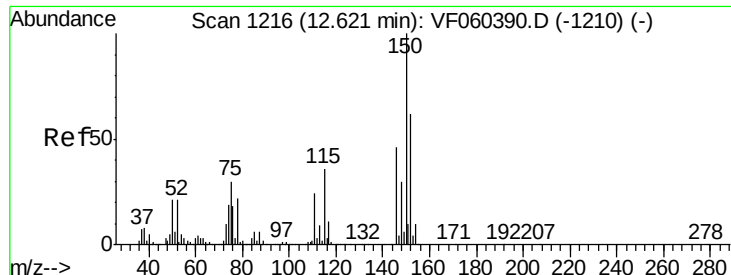
#70
Styrene
Concen: 71.674 ug/l
RT: 10.90 min Scan# 1042
Delta R.T. 0.02 min
Lab File: VF060409.D
Acq: 2 Oct 2018 18:27

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



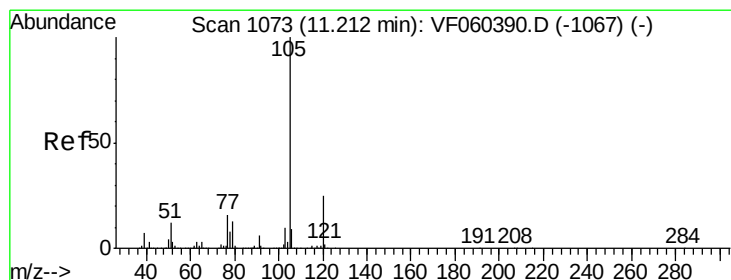
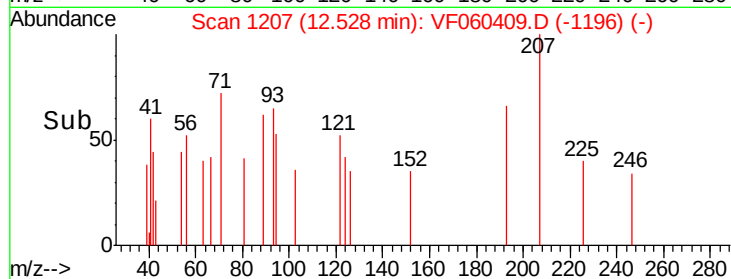
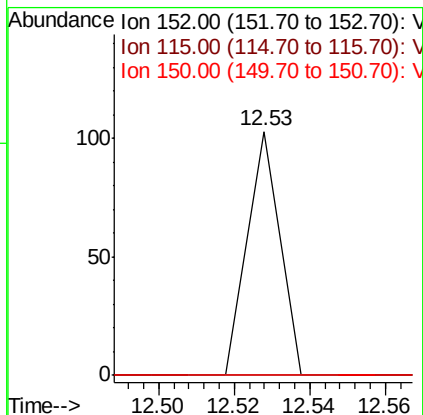
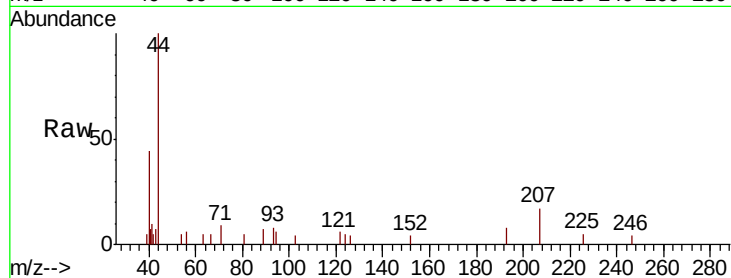


#72

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

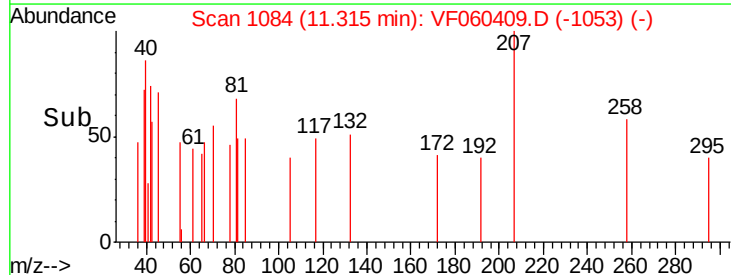
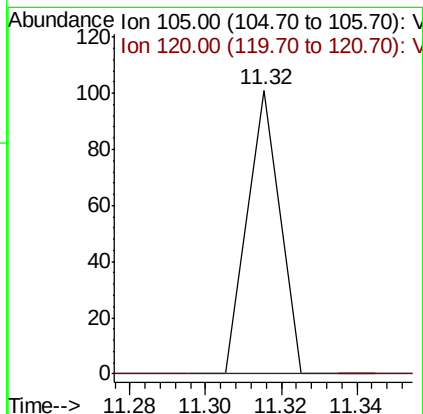
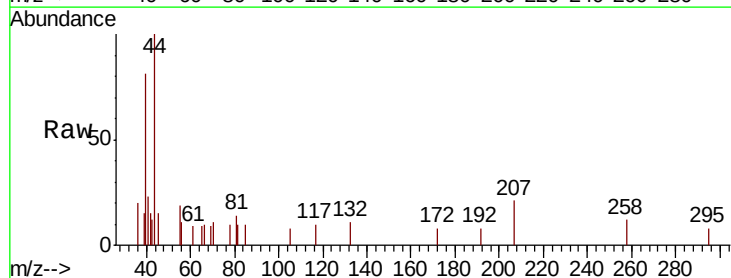
Tot Ion	Ratio	Lower	Upper
152	100		
115	0.0	28.6	85.8#
150	0.0	0.0	324.6

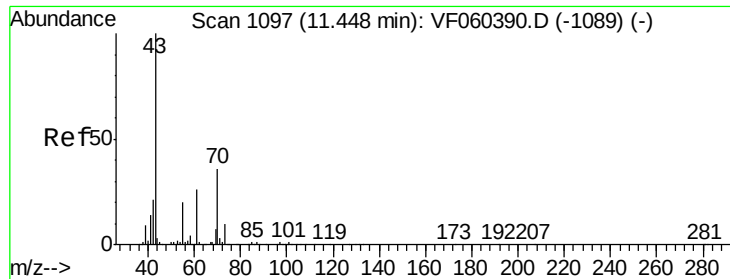


#73

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

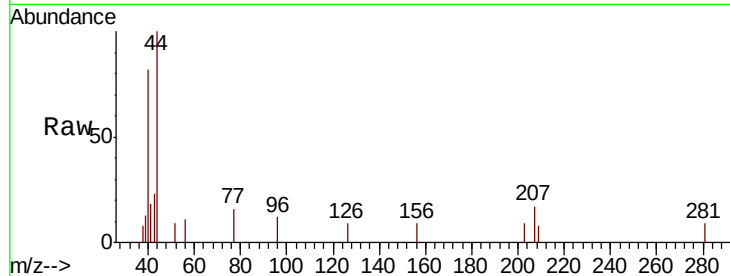
Ion Ratio Lower Upper

43 100

70 0.0 29.1 43.7#

55 0.0 16.3 24.5#

61 0.0 21.0 31.4#

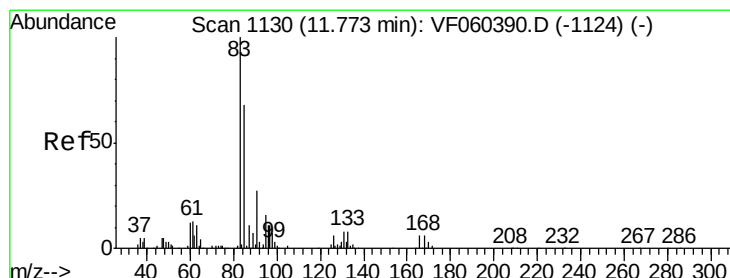
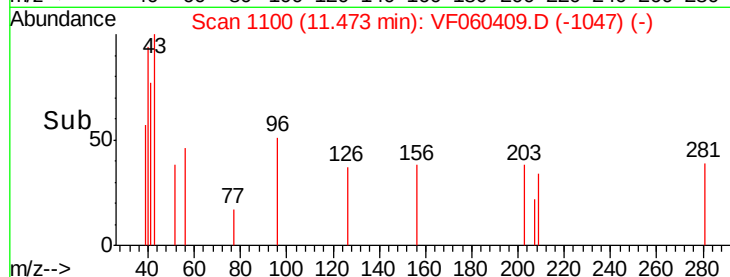
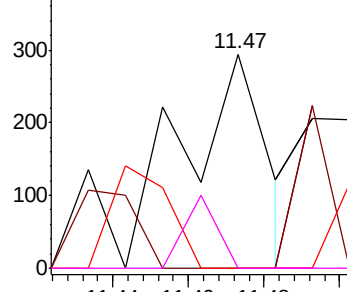


Abundance Ion 43.00 (42.70 to 43.70): VF0

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

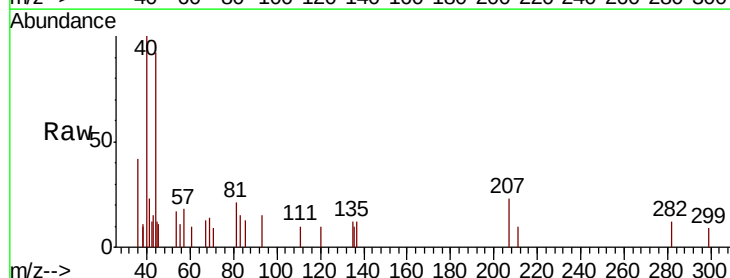
Tgt Ion: 83 Resp: 173

Ion Ratio Lower Upper

83 100

131 0.0 4.0 12.0#

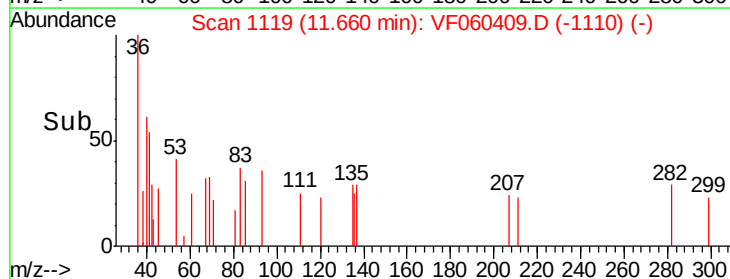
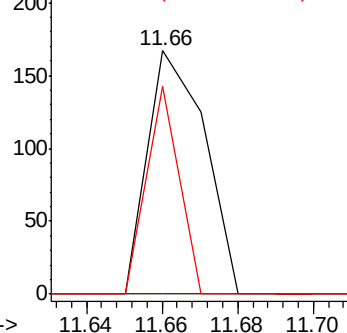
85 85.6 34.0 102.0

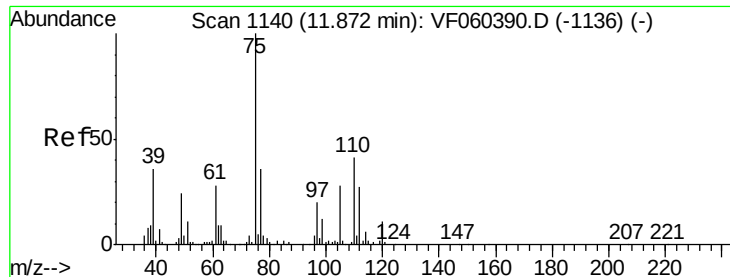


Abundance Ion 83.00 (82.70 to 83.70): VF0

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 :

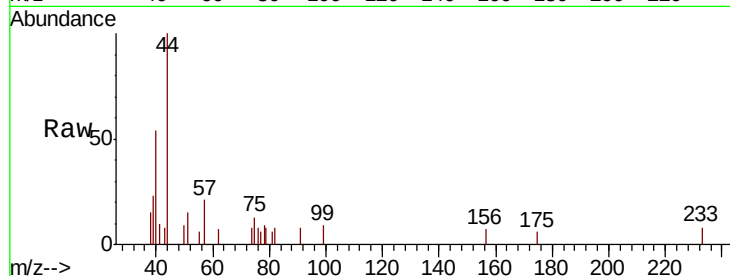
HC-SOIL-5RE

Tot Ion: 75 Resp: 212

Ion Ratio Lower Upper

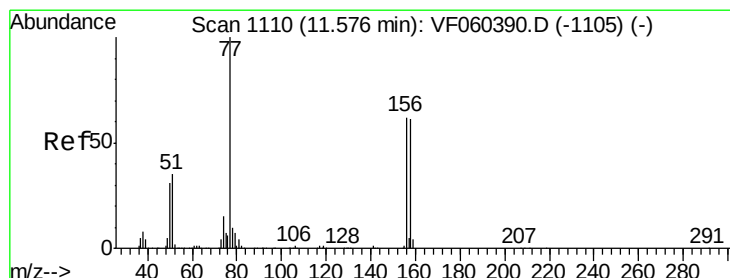
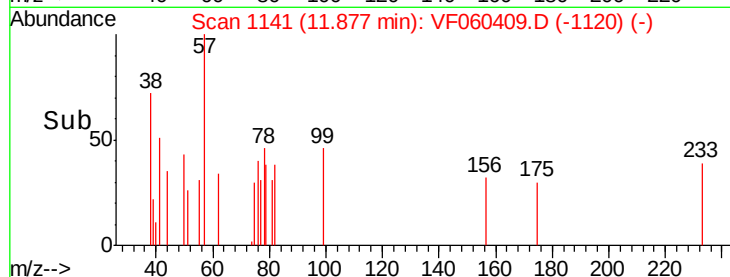
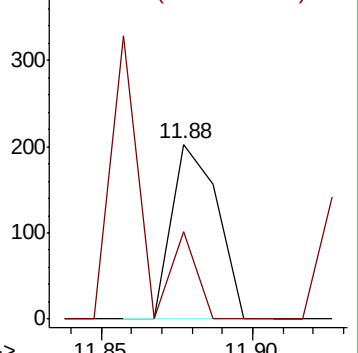
75 100

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

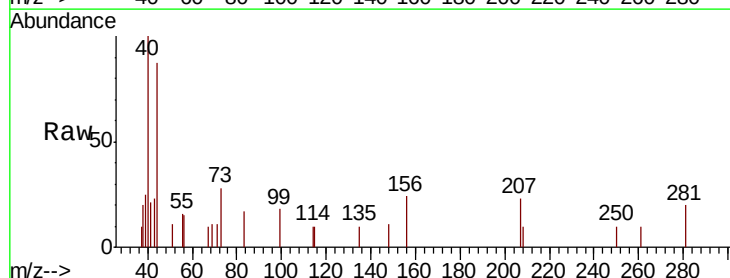
Tgt Ion: 156 Resp: 144

Ion Ratio Lower Upper

156 100

77 0.0 81.3 243.9#

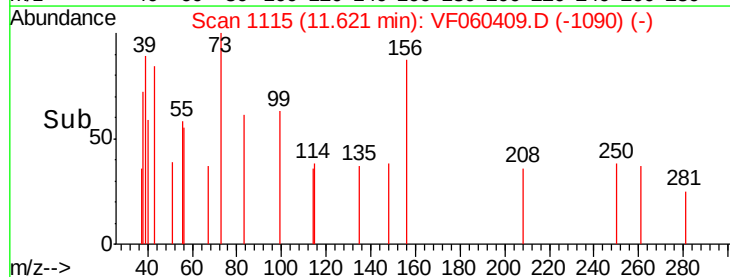
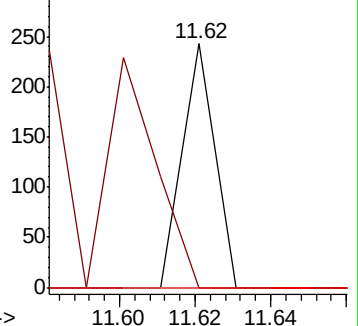
158 0.0 49.6 149.0#

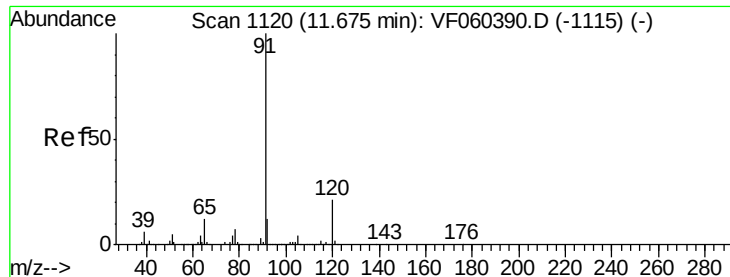


Abundance Ion 156.00 (155.70 to 156.70): V

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 :

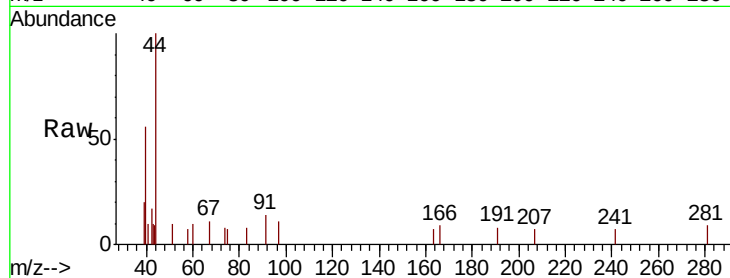
HC-SOIL-5RE

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

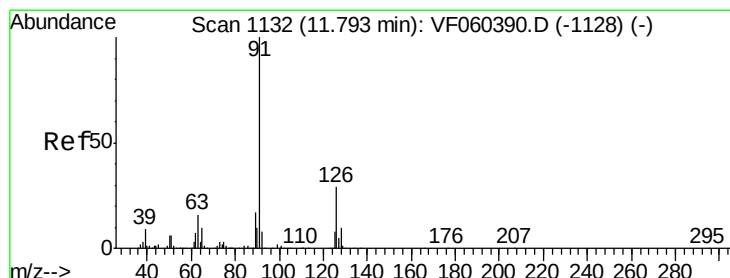
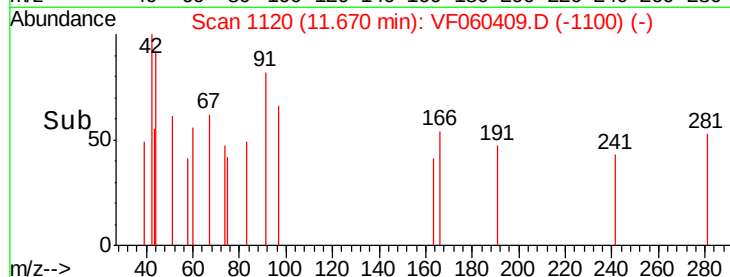
100

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

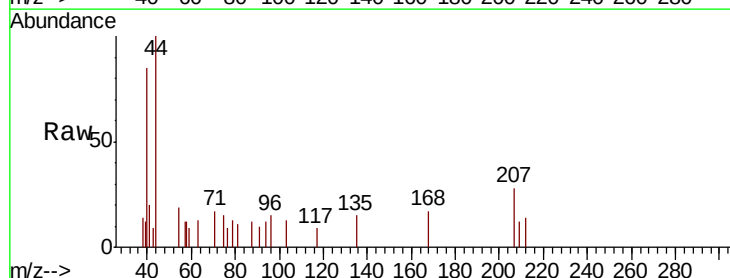
Acq: 2 Oct 2018 18:27

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

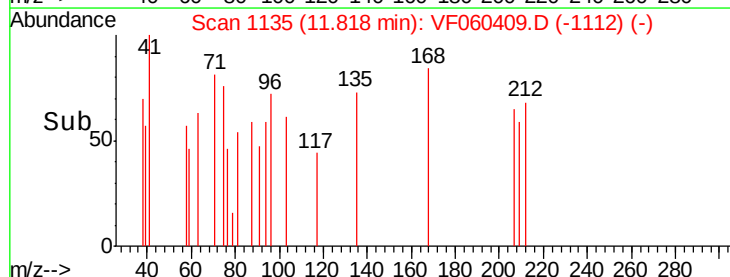
40

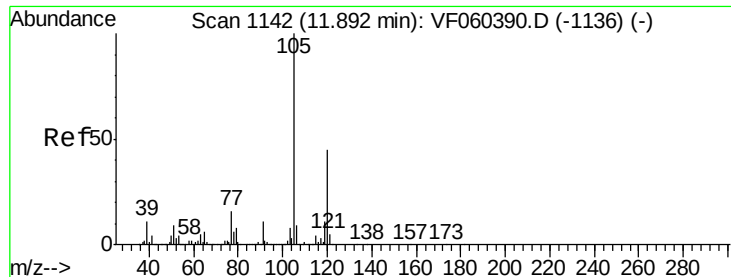
20

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 :

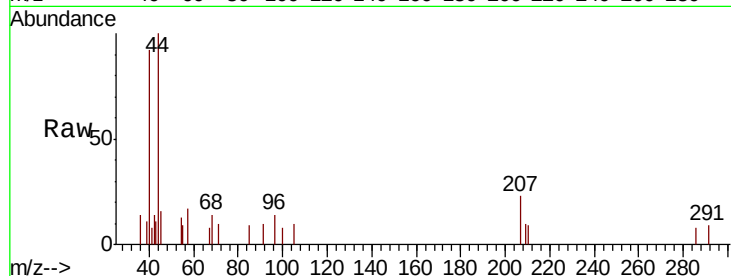
HC-SOIL-5RE

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

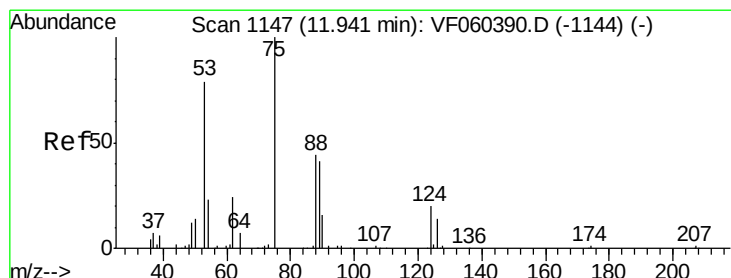
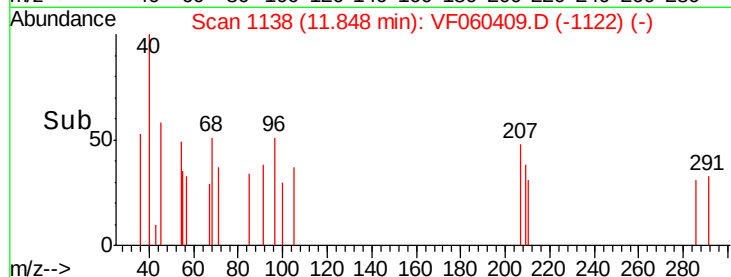
11.85

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

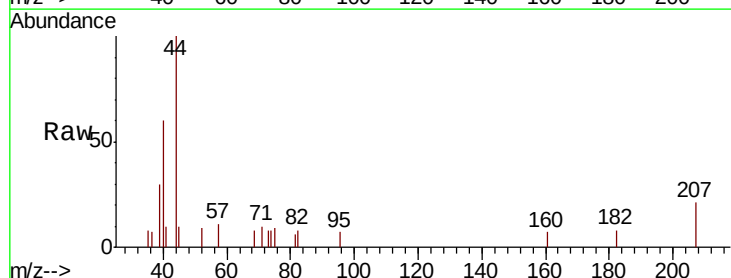
Tgt Ion: 75 Resp: 181

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

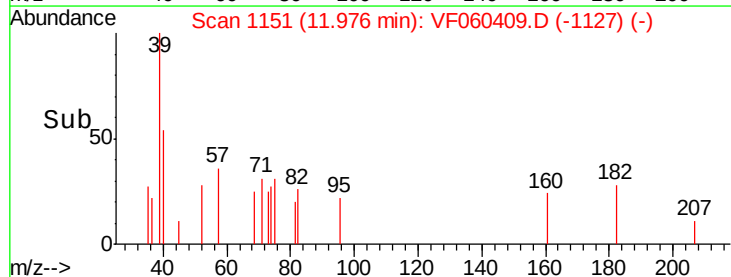
150

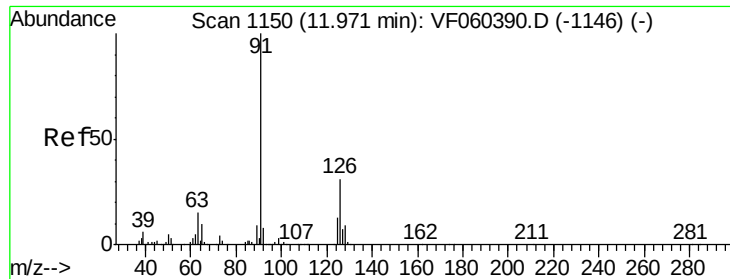
100

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 :

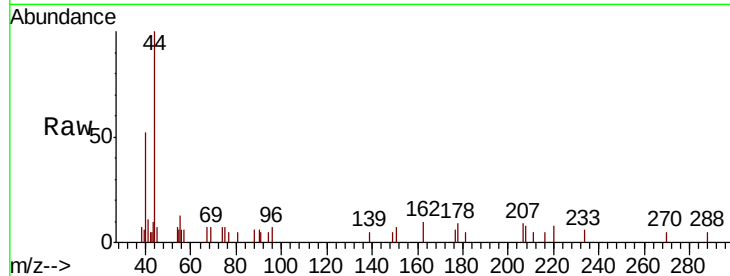
HC-SOIL-5RE

Tot Ion: 91 Resp: 64

Ion Ratio Lower Upper

91 100

126 0.0 15.7 47.0#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

11.96

100

80

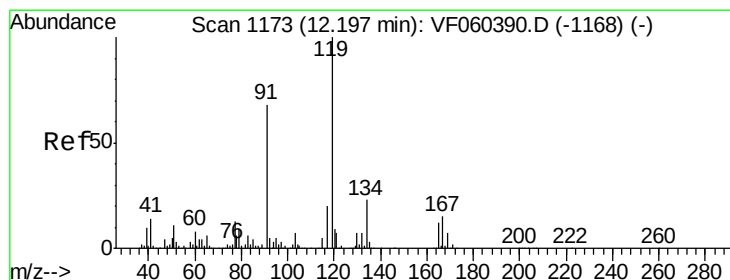
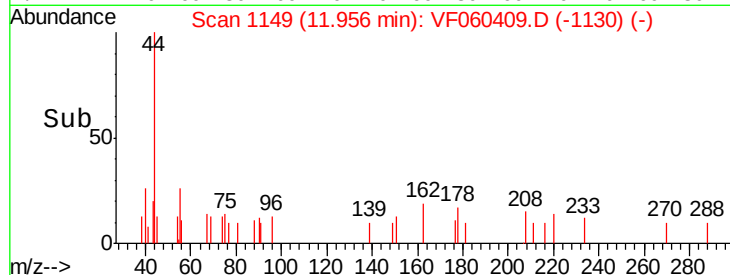
60

40

20

0

Time-->



#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

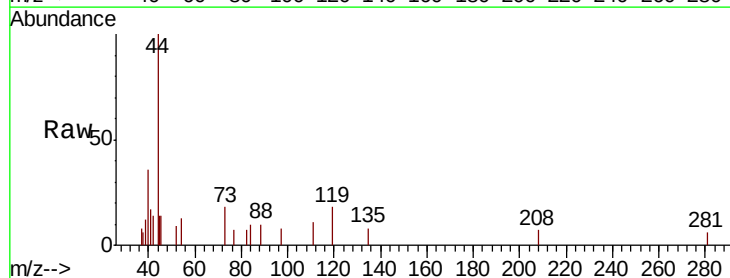
Tgt Ion: 119 Resp: 172

Ion Ratio Lower Upper

119 100

91 0.0 34.0 102.0#

134 0.0 11.7 35.0#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V

12.15

400

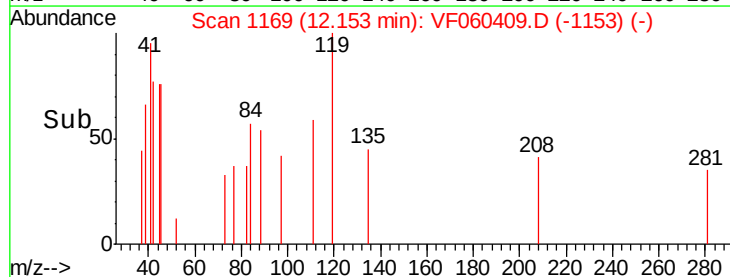
300

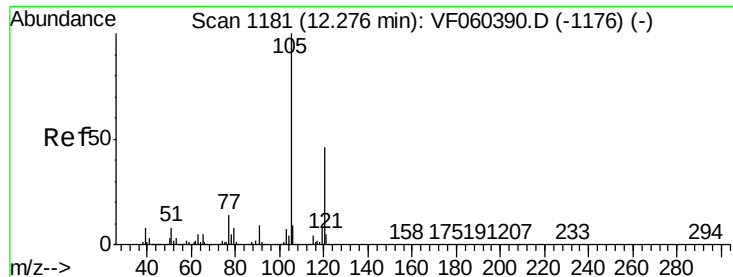
200

100

0

Time-->





#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 :

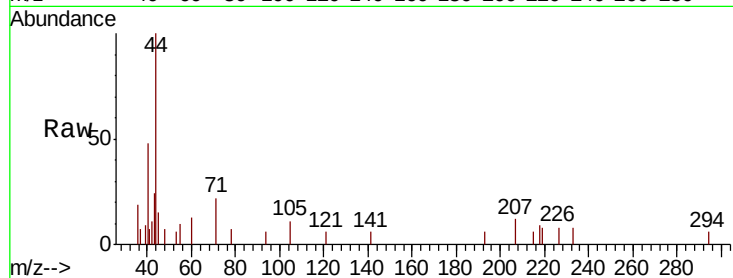
HC-SOIL-5RE

Tot Ion:105 Resp: 116

Ion Ratio Lower Upper

105 100

120 0.0 23.1 69.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

200

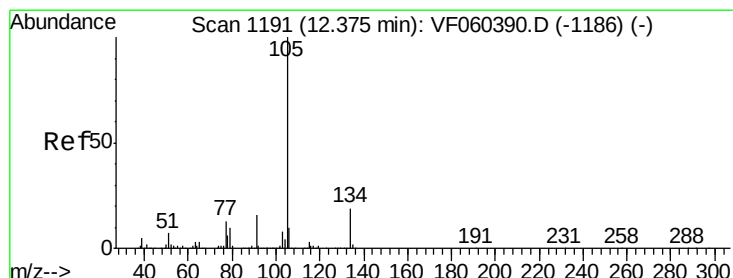
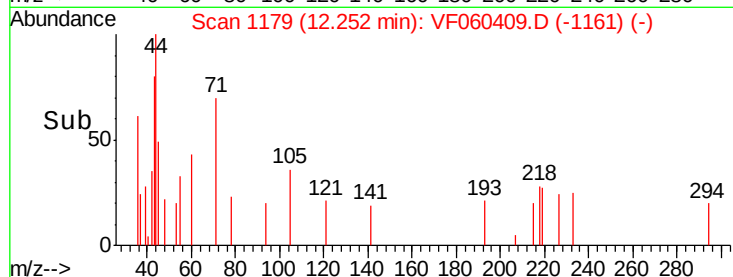
150

100

50

0

Time-->



#85

sec-Butylbenzene

Concen: 11.160 ug/l

RT: 12.39 min Scan# 1193

Delta R.T. 0.02 min

Lab File: VF060409.D

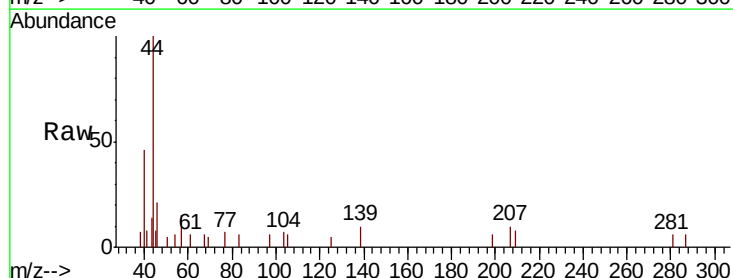
Acq: 2 Oct 2018 18:27

Tgt Ion:105 Resp: 62

Ion Ratio Lower Upper

105 100

134 0.0 9.4 28.3#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.39

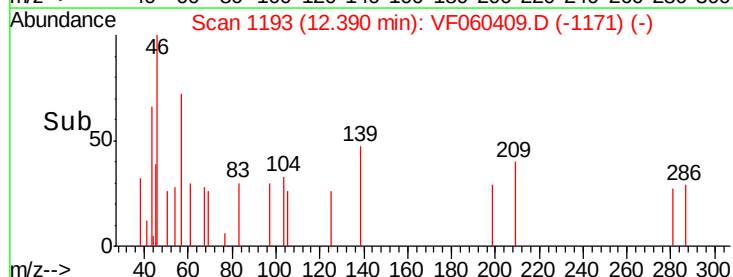
150

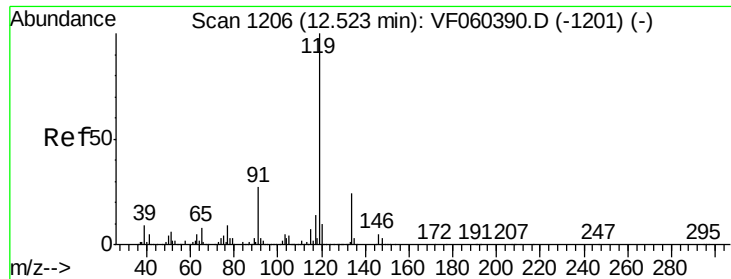
100

50

0

Time-->

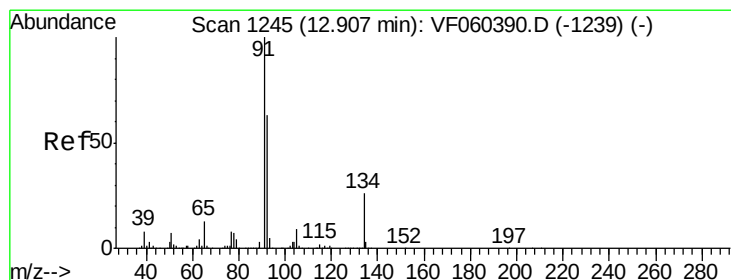
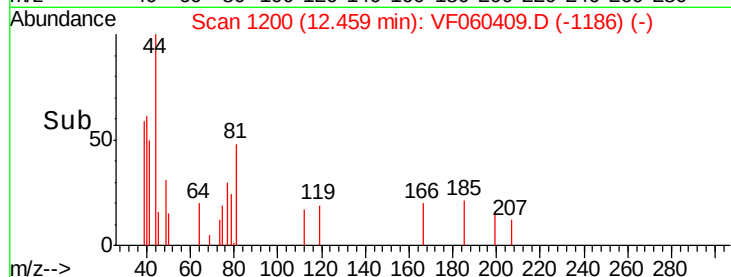
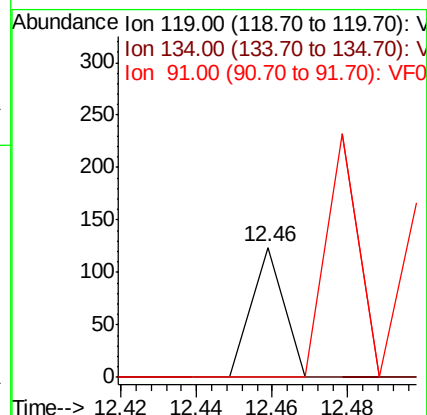
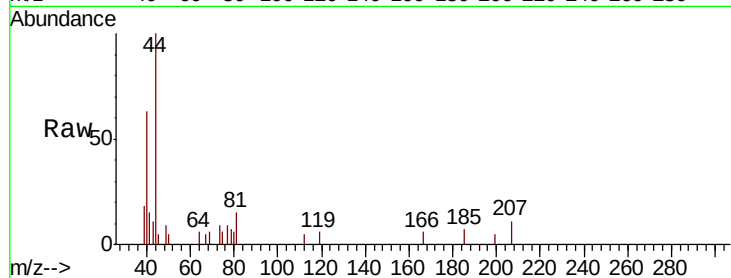




#86
 p-Isopropyltoluene
 Concen: 16.084 ug/l
 RT: 12.46 min Scan# 1200
 Delta R.T. -0.06 min
 Lab File: VF060409.D
 Acq: 2 Oct 2018 18:27

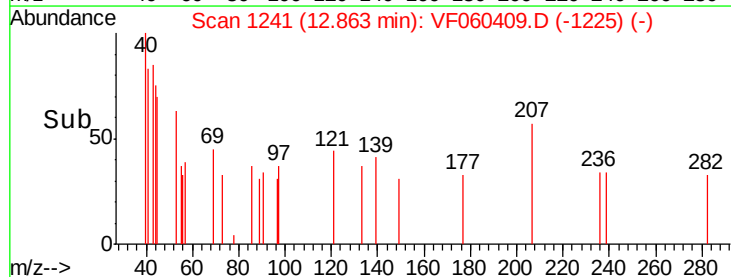
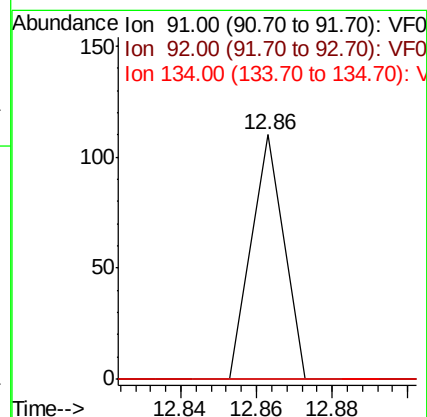
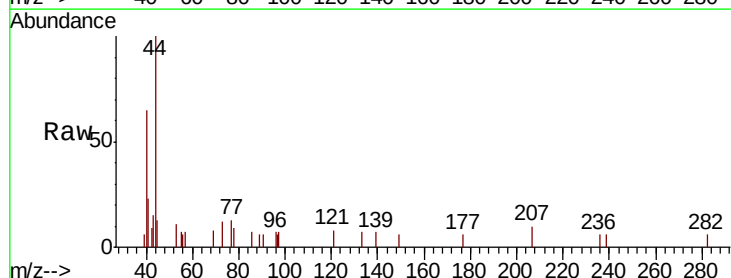
Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-5RE

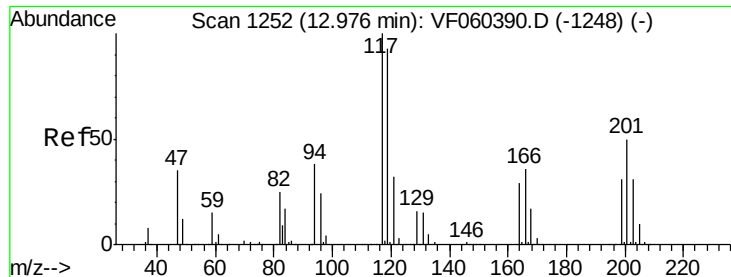
Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	12.3	36.8#
91	0.0	13.5	40.4#



#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	Ratio	Lower	Upper
91	100		
92	0.0	31.3	93.9#
134	0.0	13.0	38.9#





#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 :

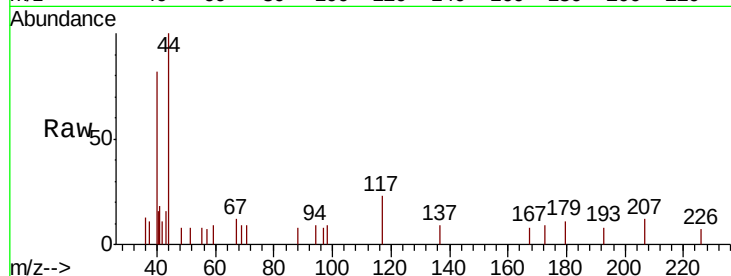
HC-SOIL-5RE

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

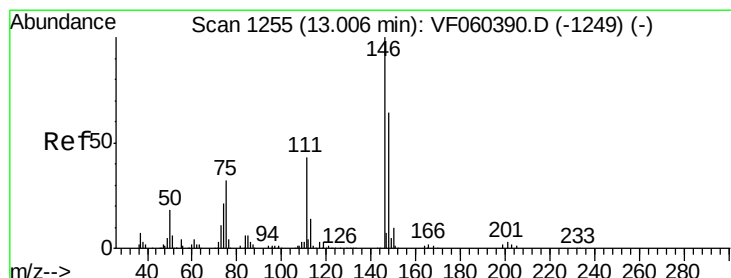
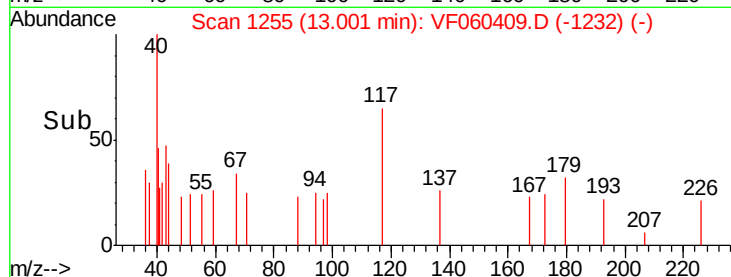
300

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

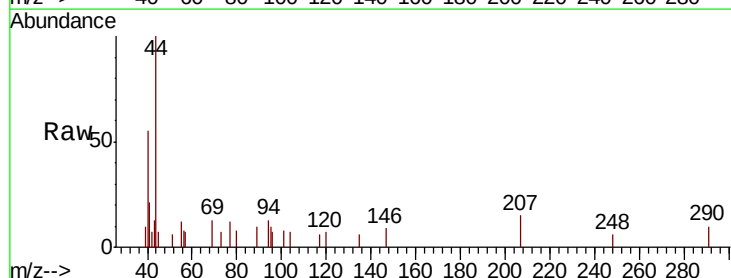
Tgt Ion:146 Resp: 84

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

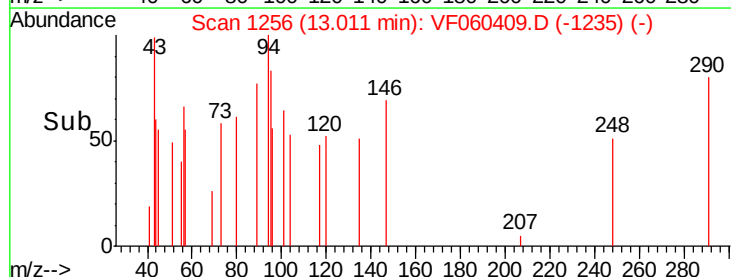
150

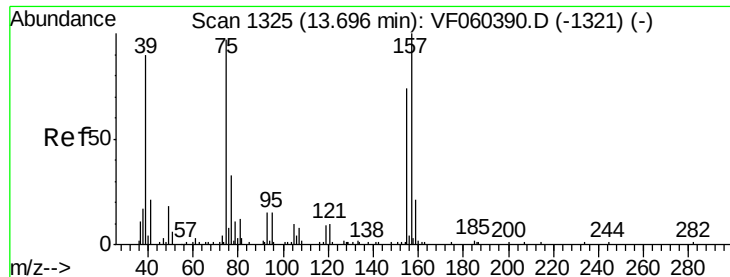
100

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

ClientSampled :

HC-SOIL-5RE

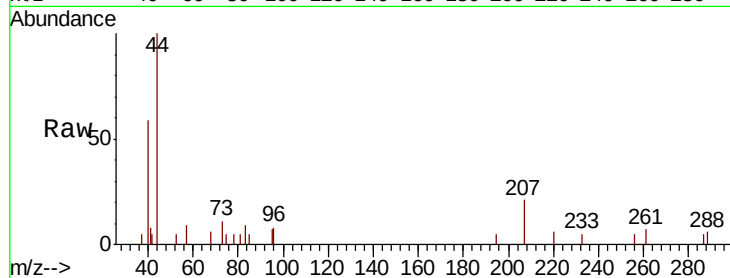
Tot Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

155 0.0 37.9 113.6#

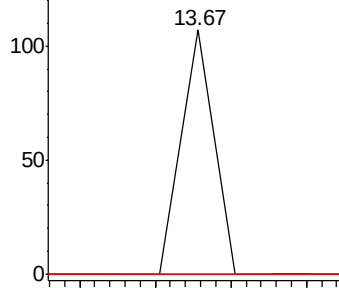
157 0.0 51.3 154.0#



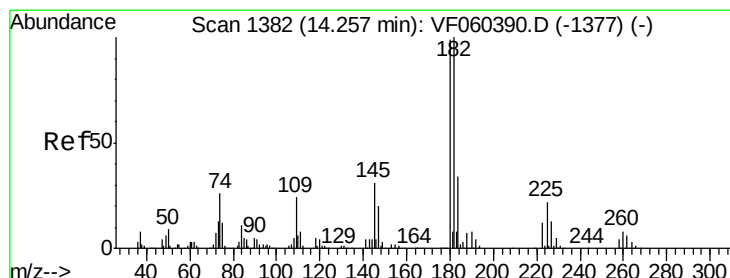
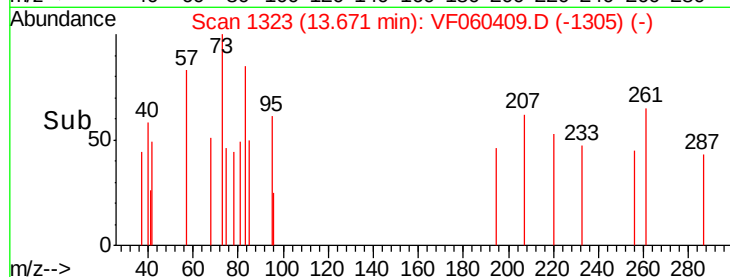
Abundance Ion 75.00 (74.70 to 75.70): VF0

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

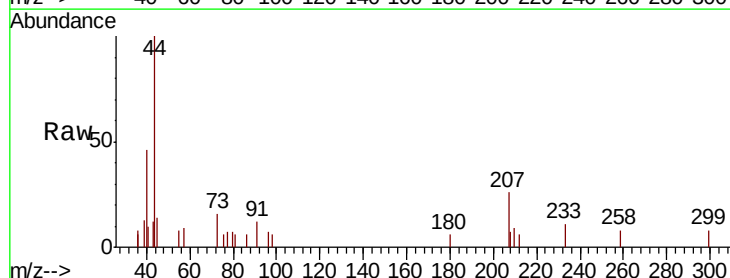
Tgt Ion:180 Resp: 63

Ion Ratio Lower Upper

180 100

182 0.0 50.3 150.9#

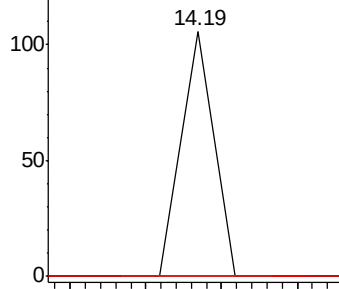
145 0.0 15.5 46.5#



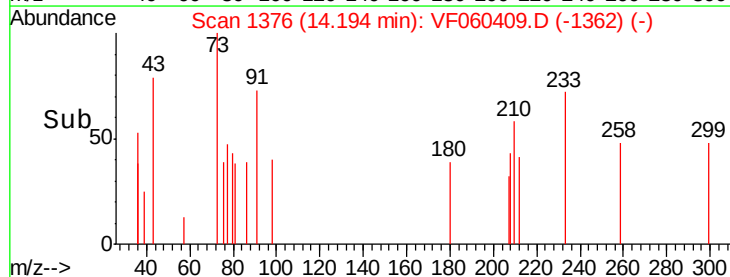
Abundance Ion 180.00 (179.70 to 180.70): V

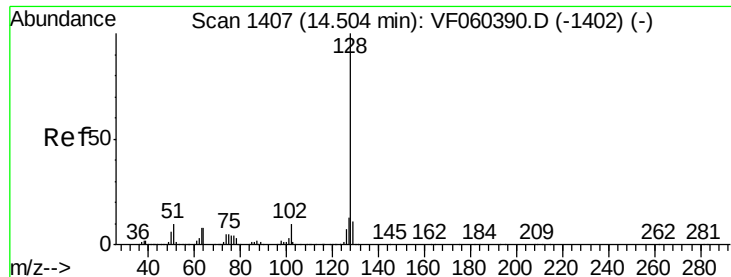
Ion 182.00 (181.70 to 182.70): V

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

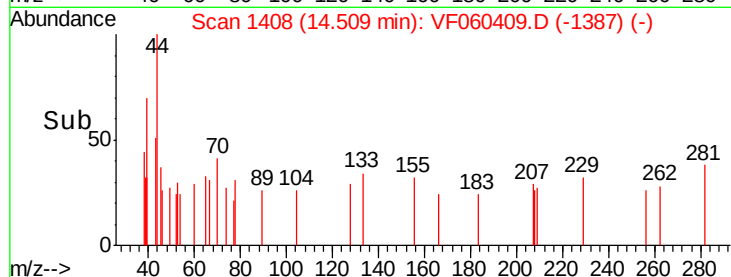
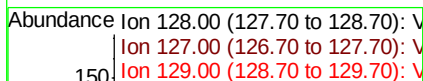
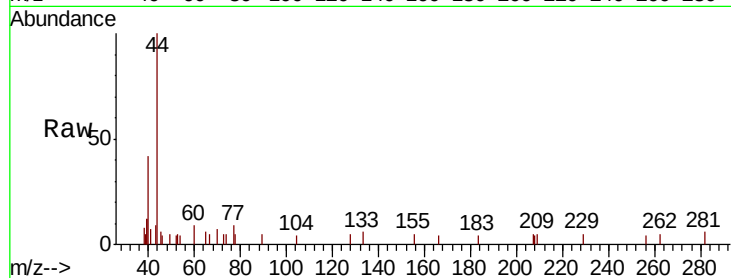
Tot Ion:128 Resp: 73

Ion Ratio Lower Upper

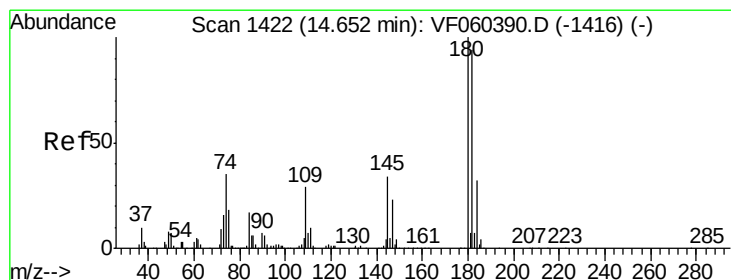
128 100

127 0.0 10.0 15.0#

129 0.0 8.7 13.1#



Time-->



#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#

