

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100218\
 Data File : VF060406.D
 Acq On : 2 Oct 2018 17:04
 Operator : VA/AP
 Sample : J5170-07
 Misc : 7.66/5mL/MSVOA F/SOIL
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-2

Quant Time: Oct 03 02:33:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F100118S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 11:42:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.12	168	70	50.00	ug/l	0.11
34) 1,4-Difluorobenzene	5.68	114	72	50.00	ug/l	-0.07
63) Chlorobenzene-d5	9.89	117	88	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.52	152	64	50.00	ug/l	-0.10

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.14	65	173	157.94	ug/l	0.15
Spiked Amount	50.000		Recovery	=	315.88%	
35) Dibromofluoromethane	4.20	113	122	180.37	ug/l	-0.07
Spiked Amount	50.000		Recovery	=	360.74%	
50) Toluene-d8	7.72	98	71	42.62	ug/l	0.03
Spiked Amount	50.000		Recovery	=	85.24%	
62) 4-Bromofluorobenzene	11.35	95	82	107.81	ug/l	-0.13
Spiked Amount	50.000		Recovery	=	215.62%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.02	85	127	88.812	ug/l #	43
3) Chloromethane	1.13	50	195	205.147	ug/l #	41
4) Vinyl Chloride	1.20	62	120	121.358	ug/l #	42
5) Bromomethane	1.44	94	188	245.460	ug/l	98
6) Chloroethane	1.51	64	95	192.525	ug/l #	20
7) Trichlorofluoromethane	1.58	101	86	37.487	ug/l #	18
8) Diethyl Ether	1.73	74	73	232.186	ug/l	56
9) 1,1,2-Trichlorotrifluoroet	2.02	101	65	59.150	ug/l #	22
10) Methyl Iodide	2.02	142	141	84.137	ug/l #	1
11) Tert butyl alcohol	2.86	59	276	4165.788	ug/l #	1
12) 1,1-Dichloroethene	1.88	96	62	73.020	ug/l #	1
13) Acrolein	2.10	56	170	3190.570	ug/l	96
14) Allyl chloride	2.24	41	697	512.300	ug/l #	32
15) Acrylonitrile	3.13	53	65	572.557	ug/l #	14
16) Acetone	2.36	43	506	2451.459	ug/l #	66
17) Carbon Disulfide	1.95	76	211	82.065	ug/l #	68
18) Methyl Acetate	2.46	43	344	864.595	ug/l #	57
19) Methyl tert-butyl Ether	2.57	73	510	246.604	ug/l #	57
20) Methylene Chloride	2.31	84	64	83.823	ug/l #	43
21) trans-1,2-Dichloroethene	2.48	96	300	353.769	ug/l #	17
22) Diisopropyl ether	2.97	45	96	38.874	ug/l #	37
23) Vinyl Acetate	3.37	43	273	278.293	ug/l #	81
24) 1,1-Dichloroethane	3.06	63	72	43.114	ug/l #	90
25) 2-Butanone	4.58	43	60	211.551	ug/l #	60
26) 2,2-Dichloropropane	3.82	77	82	86.695	ug/l #	61
27) cis-1,2-Dichloroethene	3.77	96	76	80.157	ug/l	1
28) Bromochloromethane	3.95	49	84	136.479	ug/l	86
29) Tetrahydrofuran	4.32	42	95	901.122	ug/l #	43
30) Chloroform	4.10	83	181	87.835	ug/l #	15
31) Cyclohexane	3.91	56	367	306.043	ug/l #	17
32) 1,1,1-Trichloroethane	4.23	97	145	84.559	ug/l #	23
36) 1,1-Dichloropropene	4.37	75	73	82.235	ug/l #	45
37) Ethyl Acetate	4.20	43	249	732.489	ug/l #	17
39) Methylcyclohexane	5.57	83	67	76.989	ug/l #	10

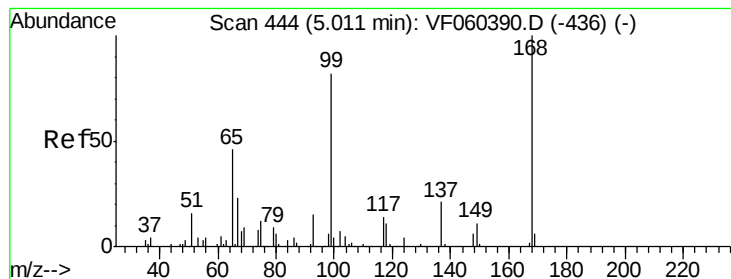
Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100218\
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 Quant Title : SW846 8260
 QLast Update : Tue Oct 02 11:42:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	4.61	78	74	41.991	ug/l #	51
41) Methacrylonitrile	4.82	41	1084	6014.141	ug/l #	20
42) 1,2-Dichloroethane	4.93	62	66	78.503	ug/l #	1
43) Isopropyl Acetate	6.98	43	292	710.798	ug/l #	44
44) Trichloroethene	5.70	130	85	150.324	ug/l #	71
45) 1,2-Dichloropropane	6.28	63	226	481.560	ug/l #	46
47) Bromodichloromethane	6.42	83	105	112.359	ug/l #	5
48) Methyl methacrylate	6.79	41	859	2912.950	ug/l #	37
49) 1,4-Dioxane	6.94	88	92	36183.352	ug/l #	49
51) 4-Methyl-2-Pentanone	8.34	43	437	1494.375	ug/l #	95
52) Toluene	7.72	92	88	73.519	ug/l #	1
53) t-1,3-Dichloropropene	8.30	75	95	129.717	ug/l #	44
54) cis-1,3-Dichloropropene	7.29	75	130	151.881	ug/l #	28
55) 1,1,2-Trichloroethane	8.49	97	219	577.221	ug/l #	18
56) Ethyl methacrylate	8.69	69	229	531.166	ug/l #	71
58) 2-Chloroethyl Vinyl ether	7.67	63	93	2111.835	ug/l #	100
59) 2-Hexanone	9.51	43	512	2387.021	ug/l #	27
60) Dibromochloromethane	8.73	129	63	110.284	ug/l #	11
61) 1,2-Dibromoethane	9.08	107	77	185.475	ug/l #	4
65) Chlorobenzene	9.92	112	66	36.511	ug/l #	40
66) 1,1,1,2-Tetrachloroethane	10.06	131	64	81.085	ug/l #	9
67) Ethyl Benzene	9.96	91	152	44.223	ug/l #	47
68) m/p-Xylenes	10.29	106	66	55.858	ug/l #	58
70) Styrene	10.99	104	62	33.844	ug/l #	29
73) Isopropylbenzene	11.14	105	87	17.265	ug/l #	51
74) N-amyl acetate	11.44	43	515	445.300	ug/l #	17
75) 1,1,2,2-Tetrachloroethane	11.80	83	60	65.308	ug/l #	22
76) 1,2,3-Trichloropropane	11.80	75	123	181.856	ug/l #	1
77) Bromobenzene	11.55	156	97	86.112	ug/l #	1
78) n-propylbenzene	11.79	91	306	50.090	ug/l #	55
79) 2-Chlorotoluene	11.79	91	306	85.630	ug/l #	46
80) 1,3,5-Trimethylbenzene	11.92	105	61	14.248	ug/l #	31
81) trans-1,4-Dichloro-2-buten	12.03	75	70	233.476	ug/l #	15
82) 4-Chlorotoluene	11.99	91	77	21.059	ug/l #	43
83) tert-Butylbenzene	12.30	119	60	14.209	ug/l #	25
84) 1,2,4-Trimethylbenzene	12.27	105	59	13.896	ug/l #	30
85) sec-Butylbenzene	12.39	105	79	13.553	ug/l #	58
86) p-Isopropyltoluene	12.59	119	60	12.600	ug/l #	1
87) 1,3-Dichlorobenzene	12.55	146	89	41.987	ug/l #	23
88) 1,4-Dichlorobenzene	12.55	146	89	42.581	ug/l #	24
89) n-Butylbenzene	12.93	91	376	74.618	ug/l #	28
90) Hexachloroethane	13.05	117	124	100.750	ug/l #	27
92) 1,2-Dibromo-3-Chloropropan	13.74	75	130	729.907	ug/l #	4
94) Hexachlorobutadiene	14.19	225	67	63.239	ug/l #	17
95) Naphthalene	14.50	128	122	44.950	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.12 min Scan# 456

Delta R.T. 0.11 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

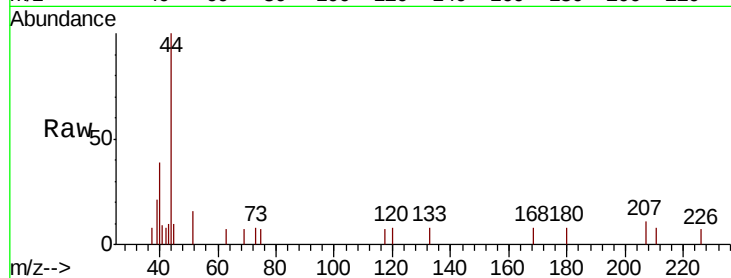
HC-SOIL-2

Tot Ion:168 Resp: 70

Ion Ratio Lower Upper

168 100

99 0.0 65.3 97.9#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.12

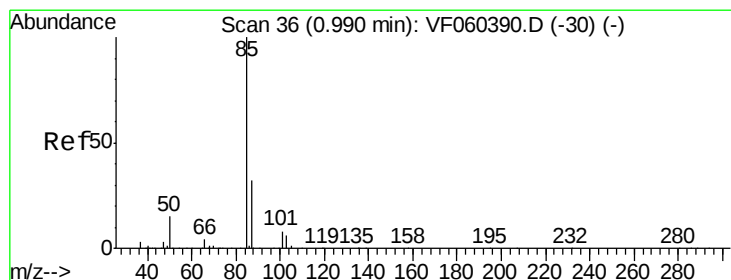
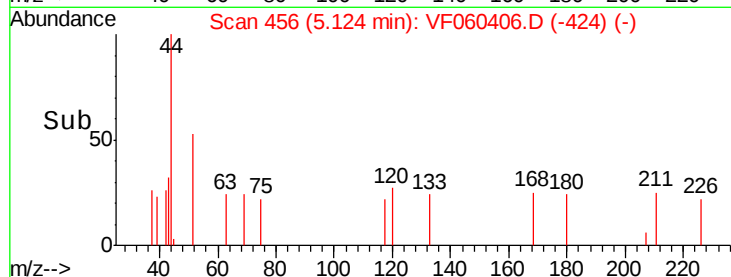
100

50

0

5.10 5.12 5.14

Time-->



#2

Dichlorodifluoromethane

Concen: 88.812 ug/l

RT: 1.02 min Scan# 40

Delta R.T. 0.03 min

Lab File: VF060406.D

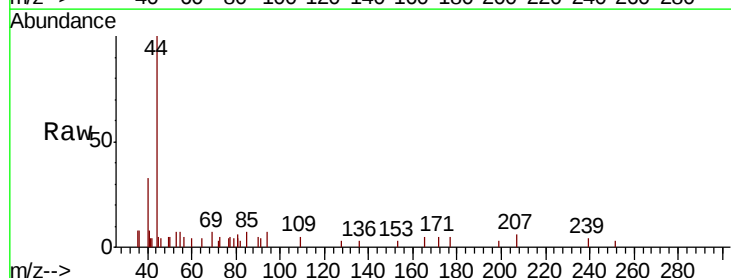
Acq: 2 Oct 2018 17:04

Tgt Ion: 85 Resp: 127

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.6#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

250

200

150

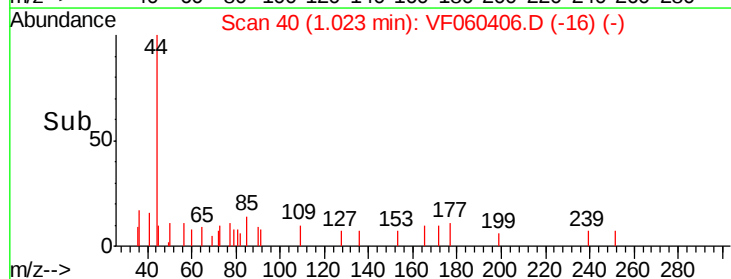
100

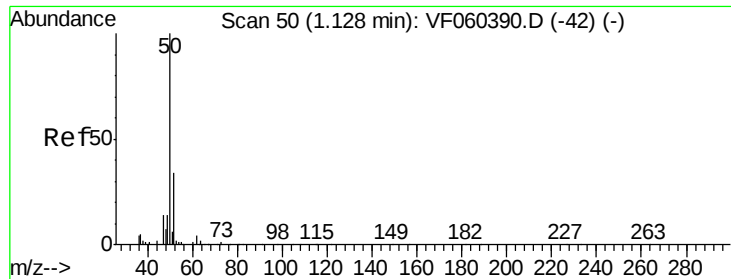
50

0

1.00 1.02 1.04

Time-->





#3

Chloromethane

Concen: 205.147 ug/l

RT: 1.13 min Scan# 51

Delta R.T. 0.00 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

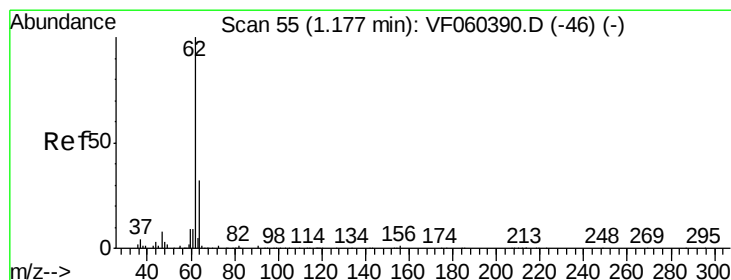
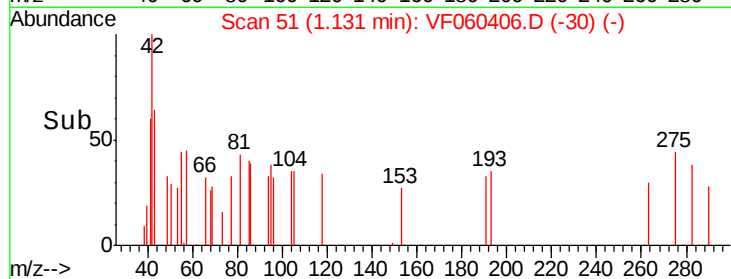
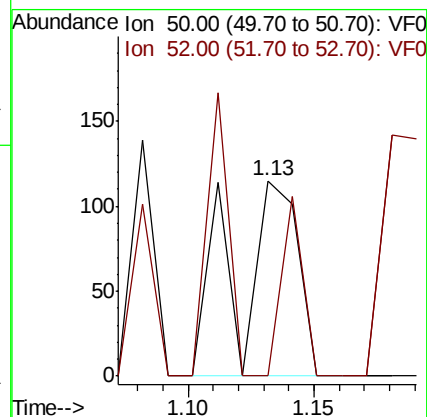
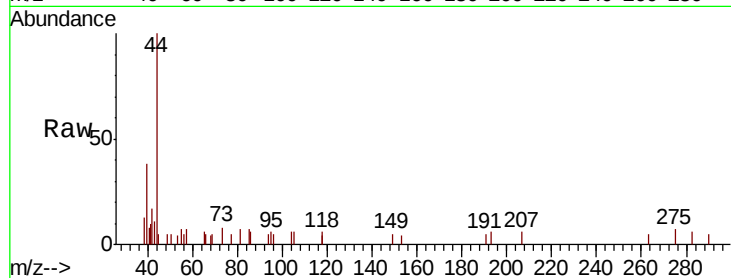
HC-SOIL-2

Tot Ion: 50 Resp: 195

Ion Ratio Lower Upper

50 100

52 0.0 26.9 40.3#



#4

Vinyl Chloride

Concen: 121.358 ug/l

RT: 1.20 min Scan# 58

Delta R.T. 0.02 min

Lab File: VF060406.D

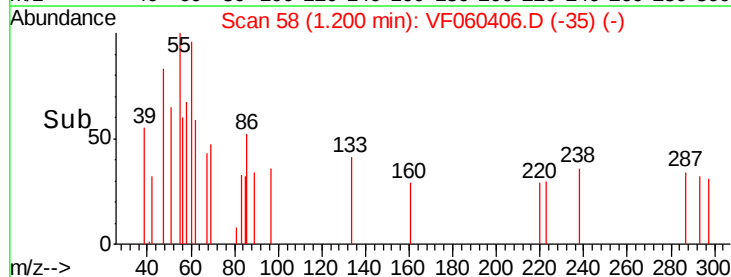
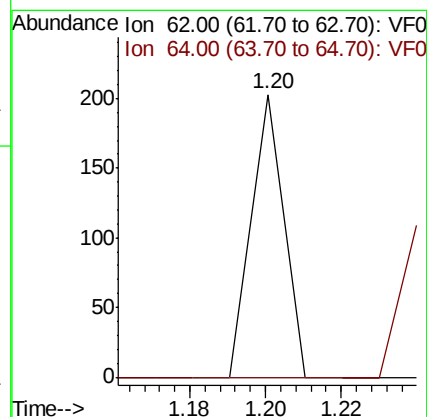
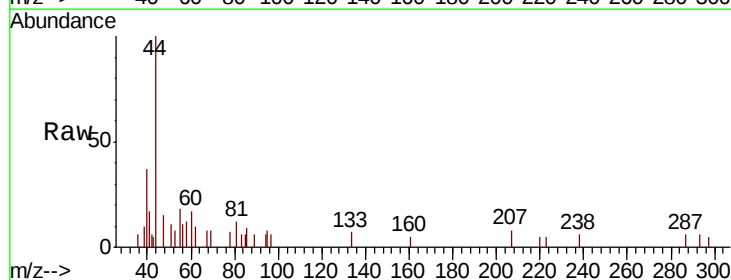
Acq: 2 Oct 2018 17:04

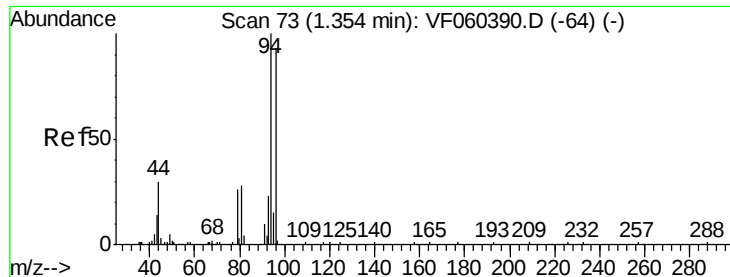
Tgt Ion: 62 Resp: 120

Ion Ratio Lower Upper

62 100

64 0.0 25.8 38.6#





#5

Bromomethane

Concen: 245.460 ug/l

RT: 1.44 min Scan# 82

Delta R.T. 0.08 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

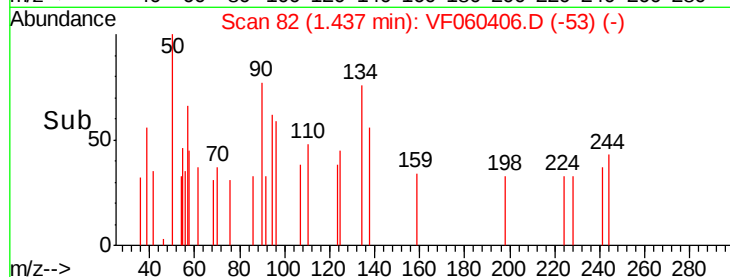
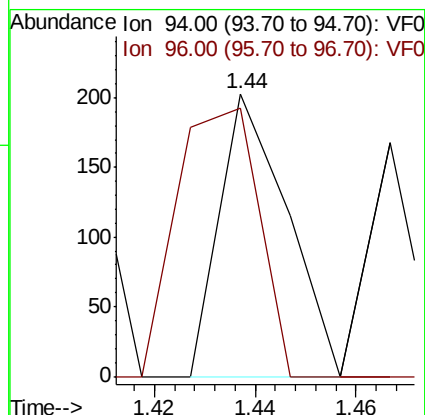
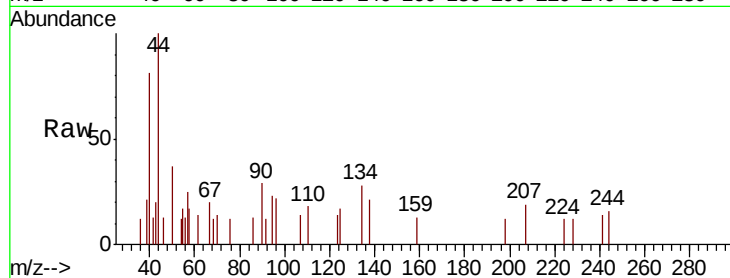
HC-SOIL-2

Tot Ion: 94 Resp: 188

Ion Ratio Lower Upper

94 100

96 95.1 74.3 111.5



#6

Chloroethane

Concen: 192.525 ug/l

RT: 1.51 min Scan# 89

Delta R.T. 0.08 min

Lab File: VF060406.D

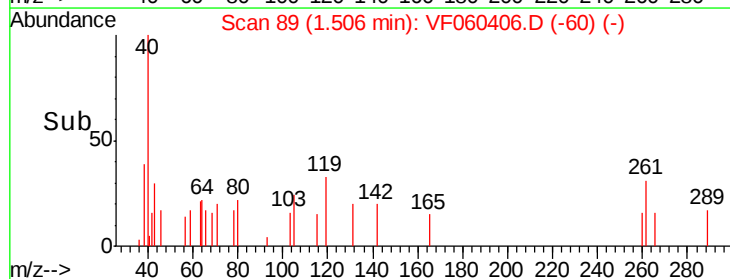
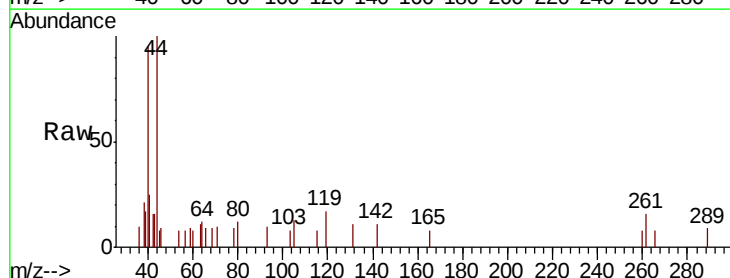
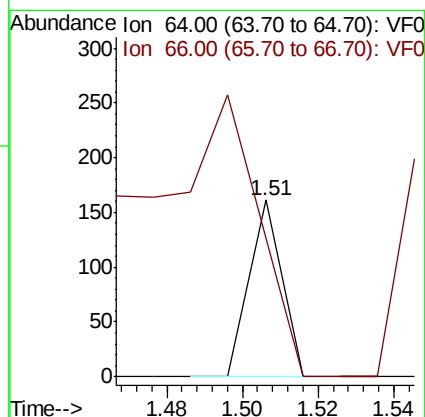
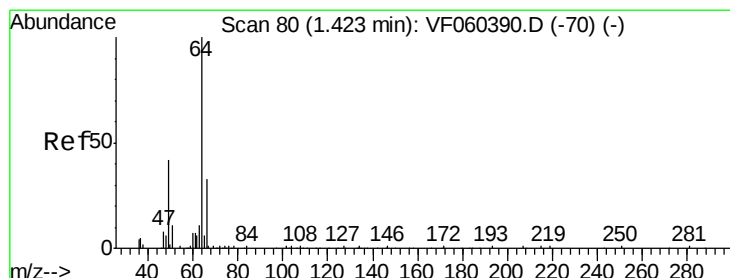
Acq: 2 Oct 2018 17:04

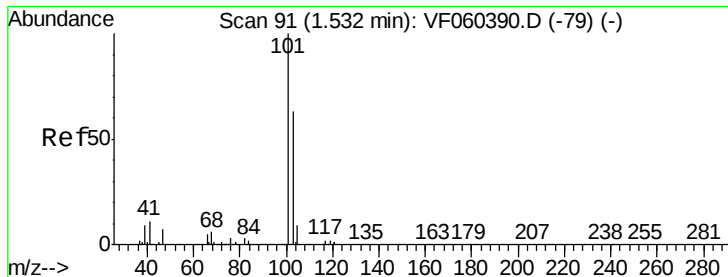
Tgt Ion: 64 Resp: 95

Ion Ratio Lower Upper

64 100

66 78.3 26.3 39.5#



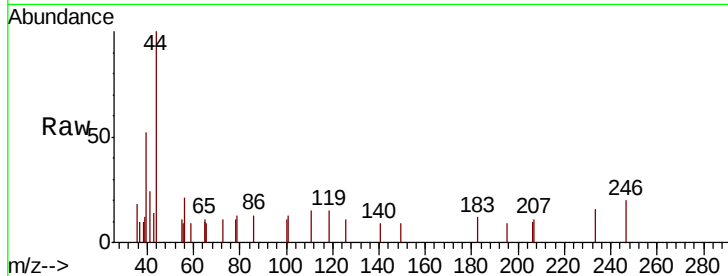


#7

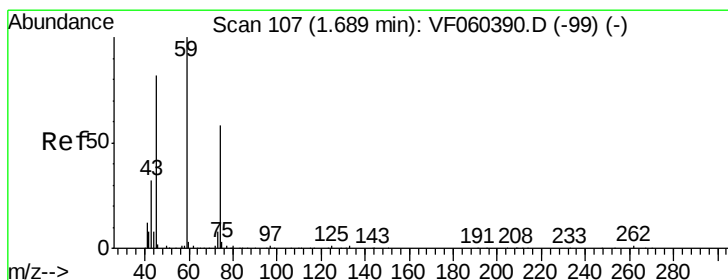
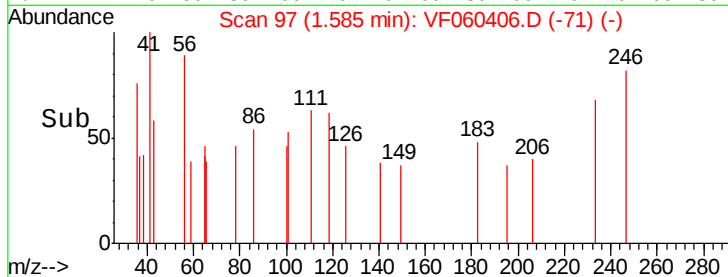
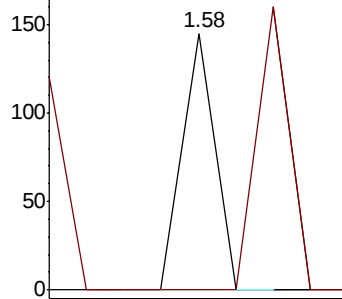
Trichlorofluoromethane
Concen: 37.487 ug/l
RT: 1.58 min Scan# 97
Delta R.T. 0.05 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-2

Tot Ion:101 Resp: 86
Ion Ratio Lower Upper
101 100
103 0.0 51.0 76.4#



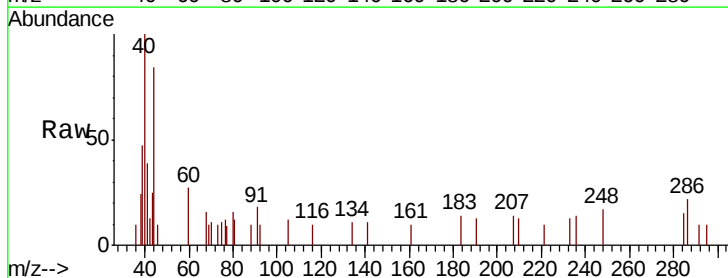
Abundance Ion 101.00 (100.70 to 101.70): V
Ion 103.00 (102.70 to 103.70): V



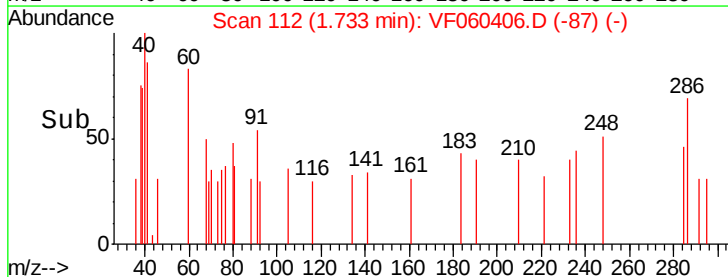
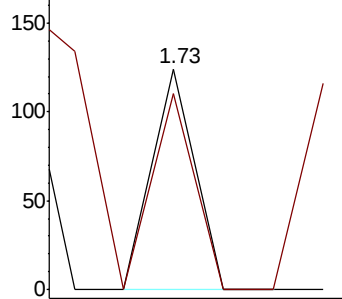
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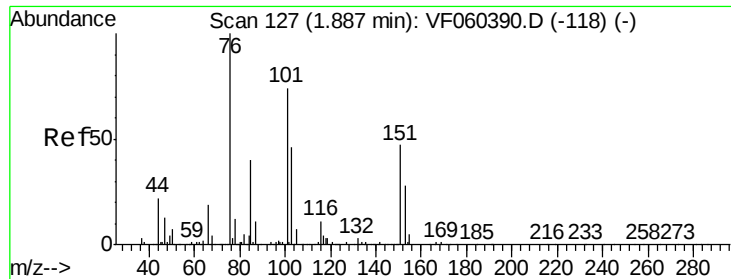
Diethyl Ether
Concen: 232.186 ug/l
RT: 1.73 min Scan# 112
Delta R.T. 0.04 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

Tgt Ion: 74 Resp: 73
Ion Ratio Lower Upper
74 100
45 88.7 71.3 213.8



Abundance Ion 74.00 (73.70 to 74.70): VF0
Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 59.150 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.13 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-2

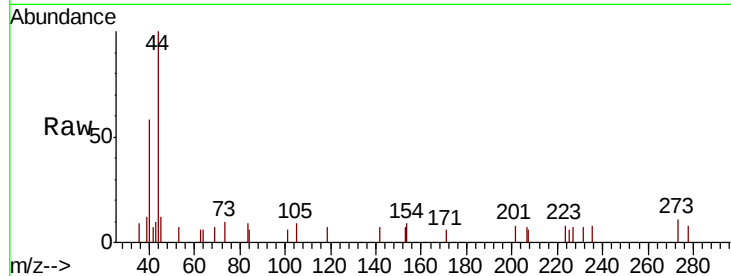
Tot Ion:101 Resp: 65

Ion Ratio Lower Upper

101 100

85 0.0 42.5 63.7#

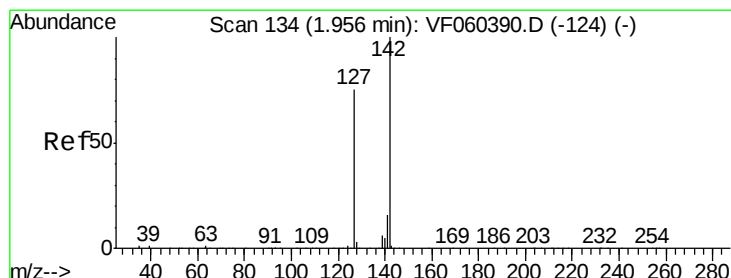
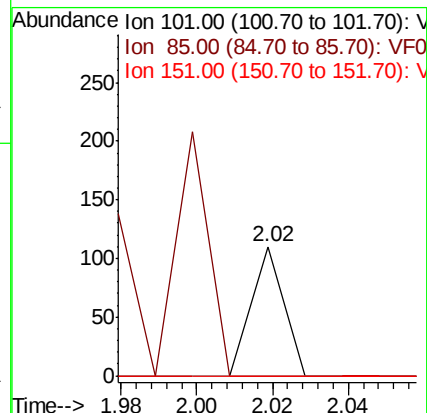
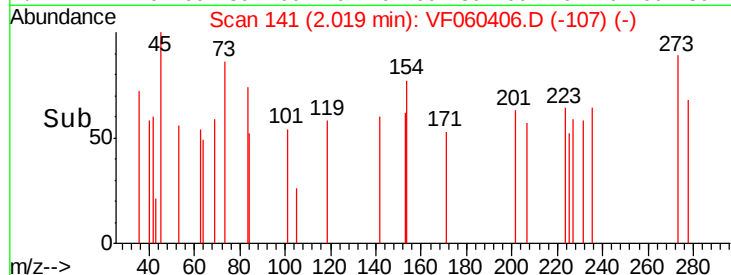
151 0.0 49.8 74.8#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VF0

Ion 151.00 (150.70 to 151.70): V



#10

Methyl Iodide

Concen: 84.137 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.06 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

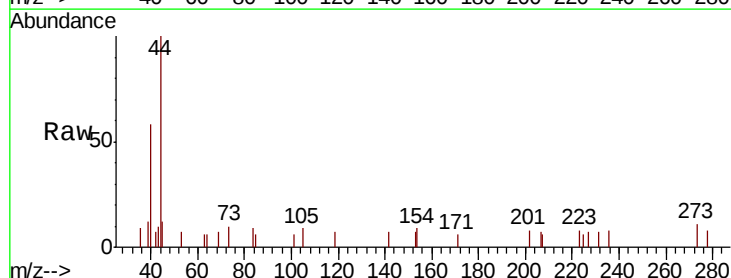
Tgt Ion:142 Resp: 141

Ion Ratio Lower Upper

142 100

127 0.0 60.2 90.2#

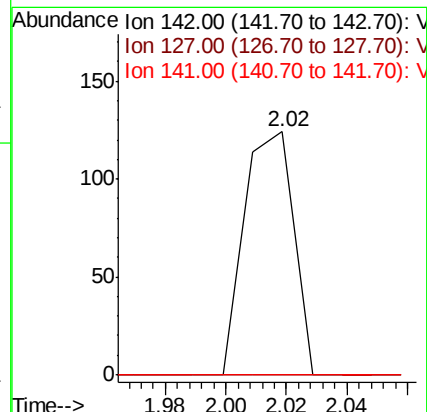
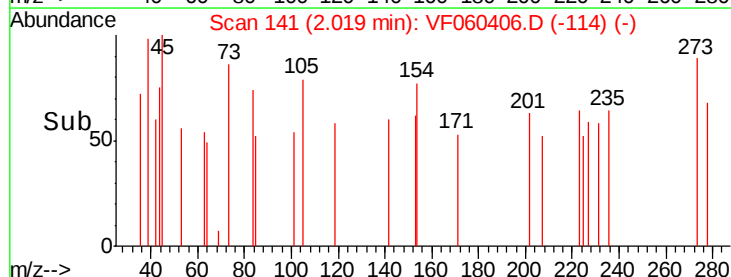
141 100.0 13.1 19.7#

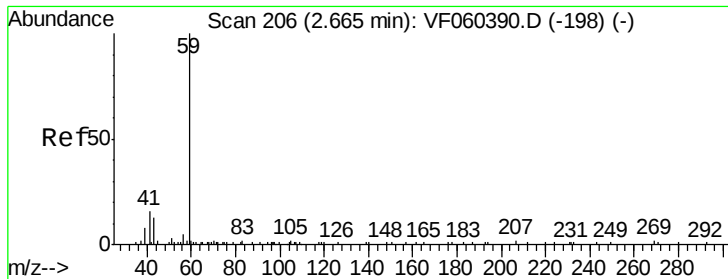


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V

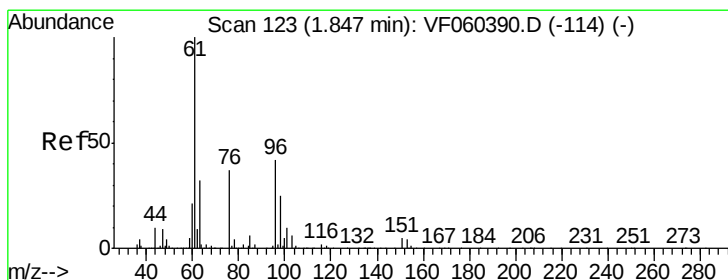
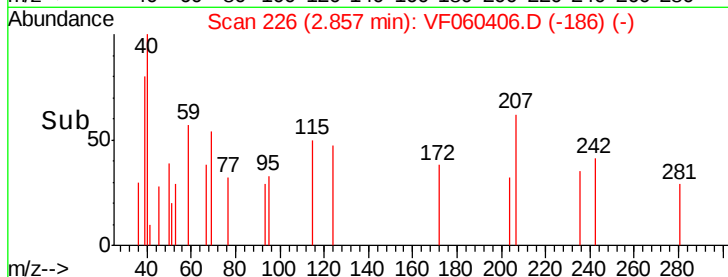
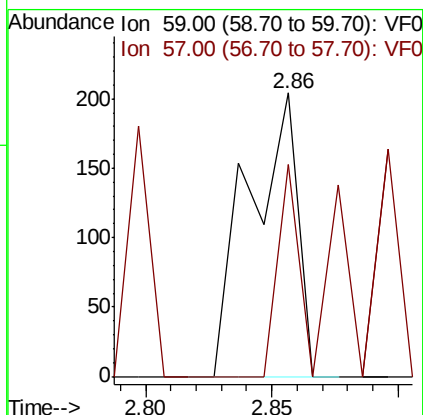
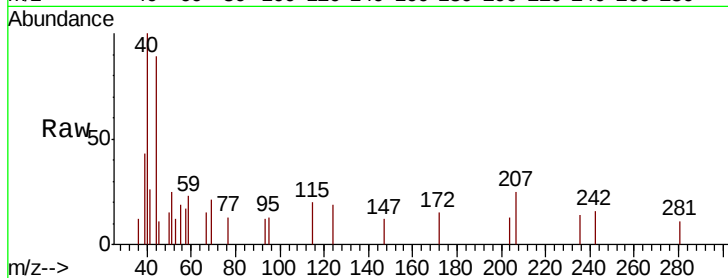




#11
Tert butyl alcohol
Concen: 4165.788 ug/l
RT: 2.86 min Scan# 226
Delta R.T. 0.19 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

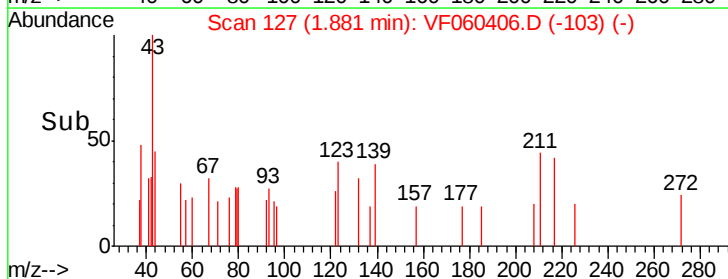
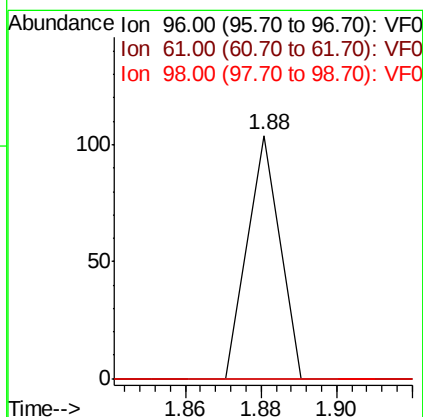
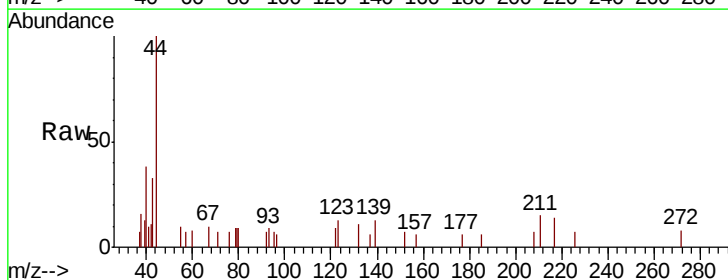
Instrument :
MSVOA_F
ClientSampled :
HC-SOIL-2

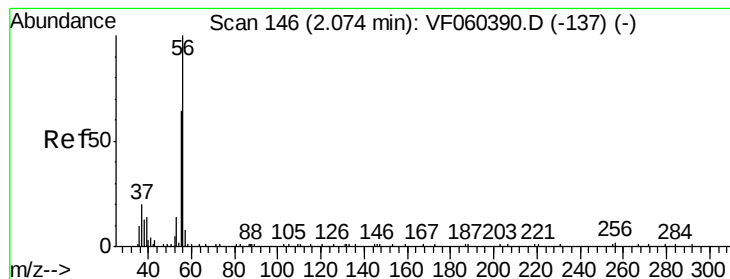
Tot Ion: 59 Resp: 276
Ion Ratio Lower Upper
59 100
57 75.0 6.5 9.7#



#12
1,1-Dichloroethene
Concen: 73.020 ug/l
RT: 1.88 min Scan# 127
Delta R.T. 0.03 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

Tgt Ion: 96 Resp: 62
Ion Ratio Lower Upper
96 100
61 0.0 189.4 284.0#
98 0.0 47.8 71.6#





#13

Acrolein

Concen: 3190.570 ug/l

RT: 2.10 min Scan# 149

Delta R.T. 0.02 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

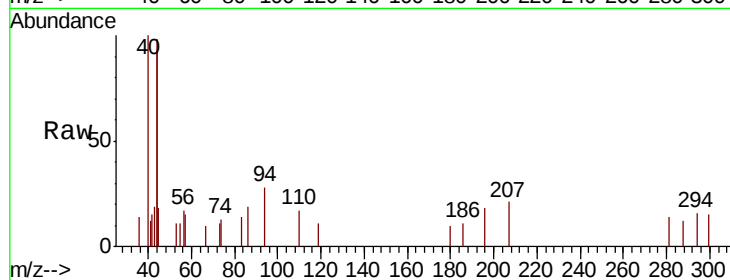
HC-SOIL-2

Tot Ion: 56 Resp: 170

Ion Ratio Lower Upper

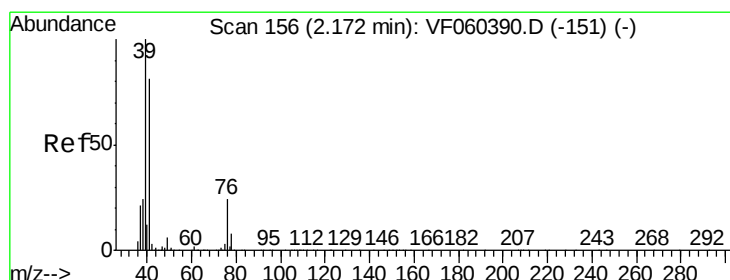
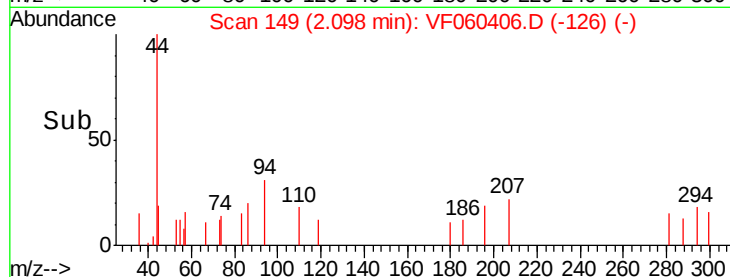
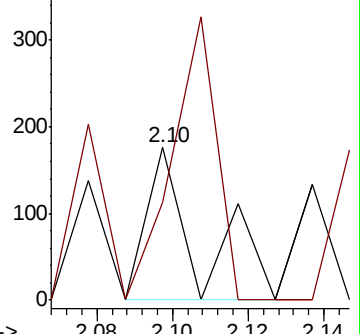
56 100

55 64.2 53.9 80.9



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



#14

Allyl chloride

Concen: 512.300 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.06 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

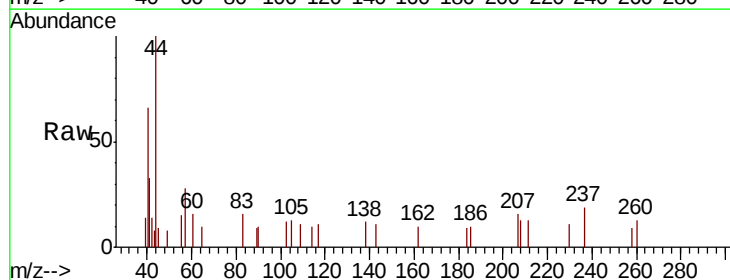
Tgt Ion: 41 Resp: 697

Ion Ratio Lower Upper

41 100

39 42.1 98.3 147.5#

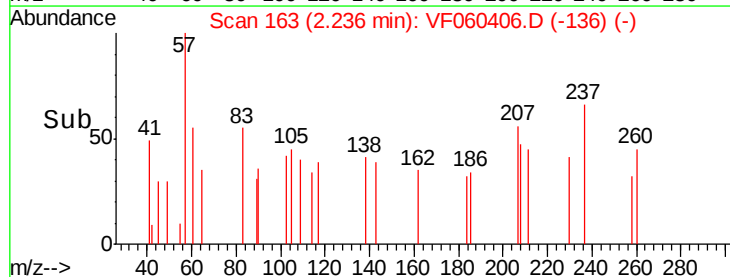
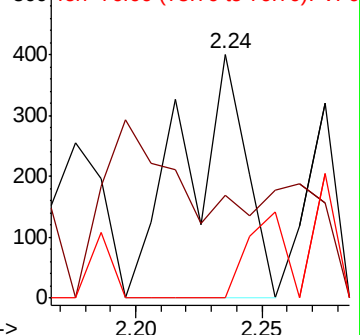
76 0.0 23.9 35.9#

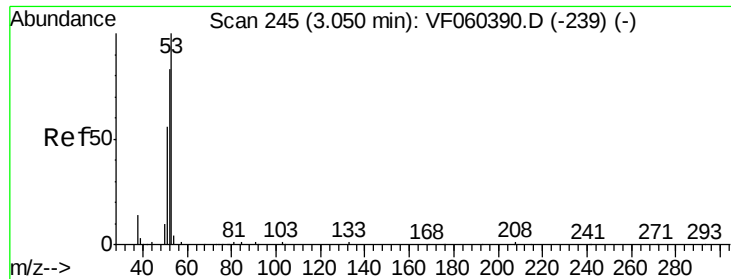


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0





#15

Acrylonitrile

Concen: 572.557 ug/l

RT: 3.13 min Scan# 254

Delta R.T. 0.08 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

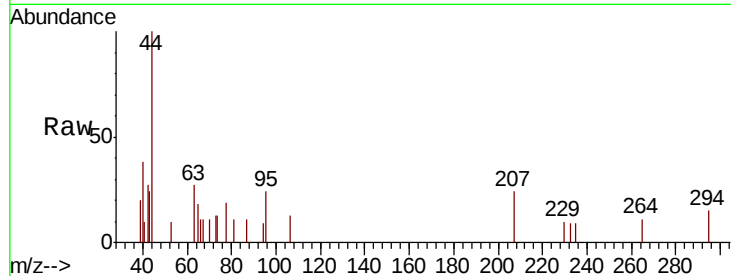
Tot Ion: 53 Resp: 65

Ion Ratio Lower Upper

53 100

52 0.0 66.0 99.0#

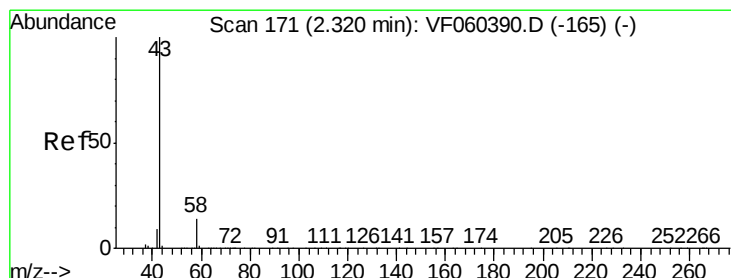
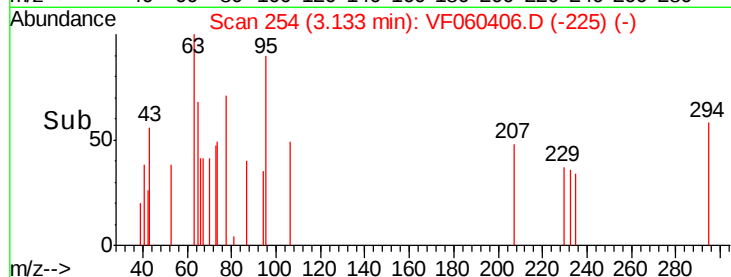
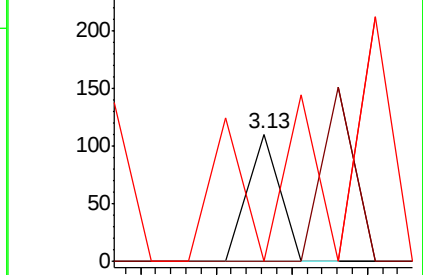
51 0.0 45.6 68.4#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 2451.459 ug/l

RT: 2.36 min Scan# 176

Delta R.T. 0.04 min

Lab File: VF060406.D

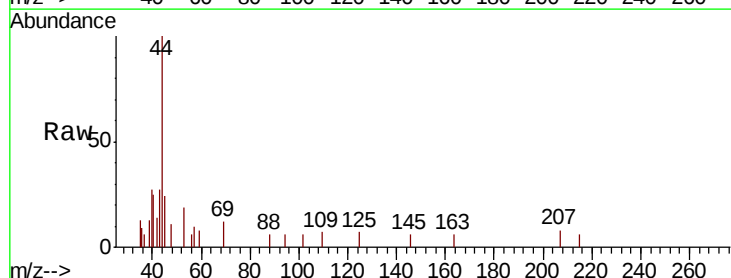
Acq: 2 Oct 2018 17:04

Tgt Ion: 43 Resp: 506

Ion Ratio Lower Upper

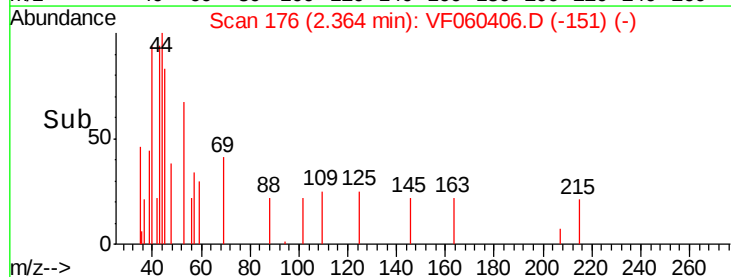
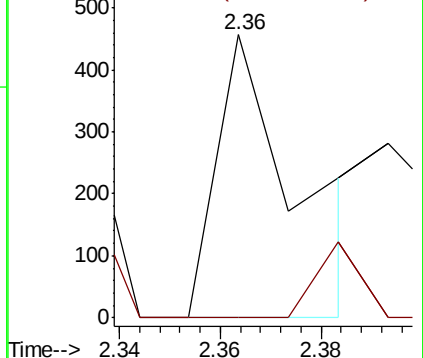
43 100

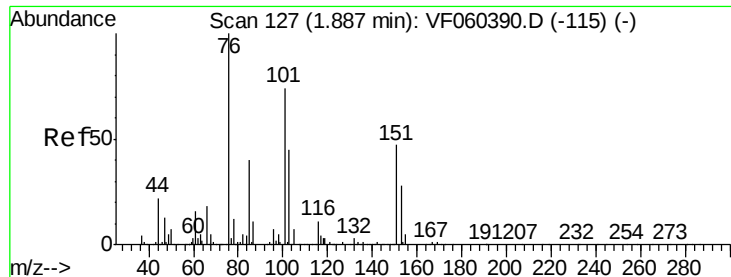
58 0.0 11.2 16.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 82.065 ug/l

RT: 1.95 min Scan# 134

Delta R.T. 0.06 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

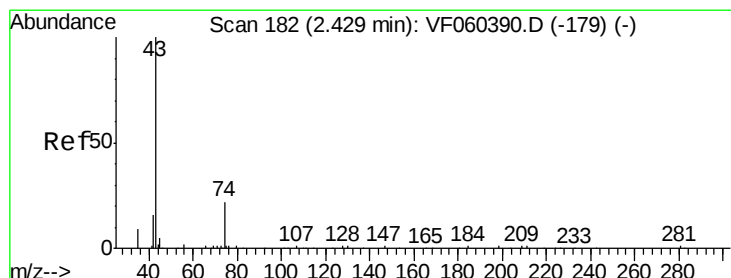
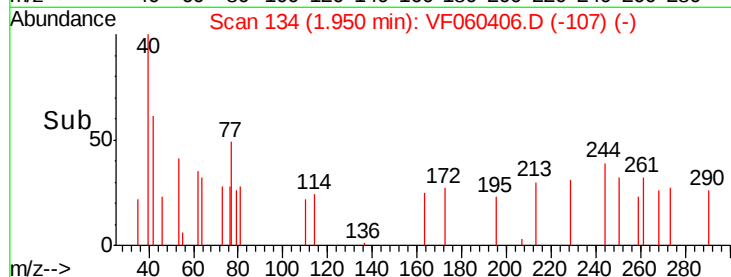
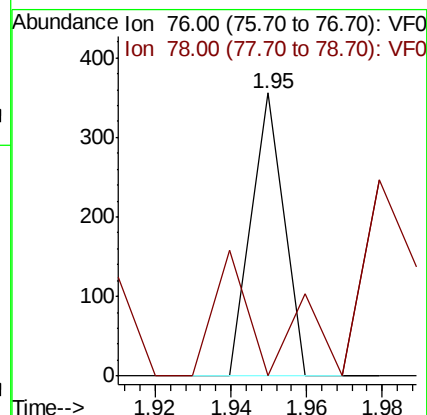
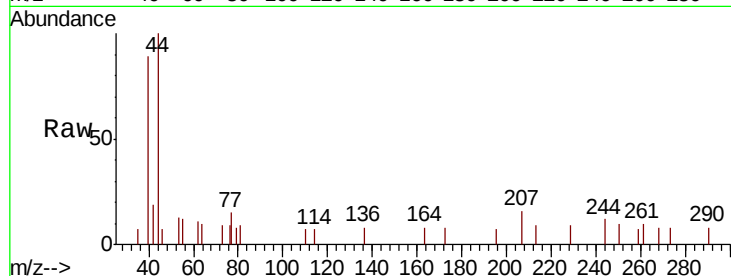
HC-SOIL-2

Tot Ion: 76 Resp: 211

Ion Ratio Lower Upper

76 100

78 0.0 10.1 15.1#



#18

Methyl Acetate

Concen: 864.595 ug/l

RT: 2.46 min Scan# 186

Delta R.T. 0.03 min

Lab File: VF060406.D

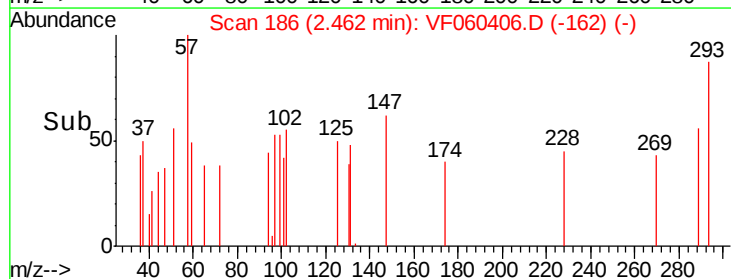
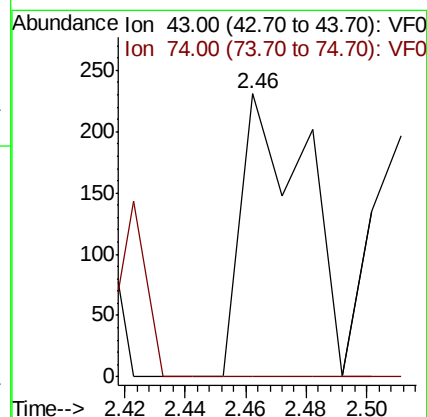
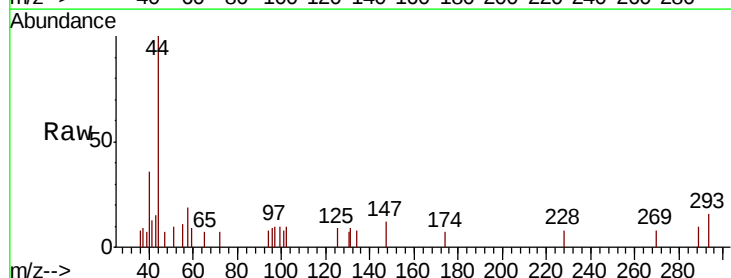
Acq: 2 Oct 2018 17:04

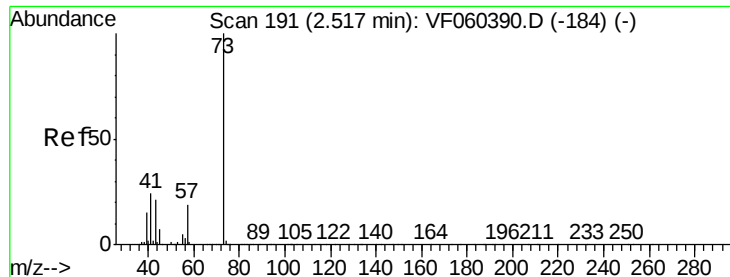
Tgt Ion: 43 Resp: 344

Ion Ratio Lower Upper

43 100

74 0.0 15.8 23.8#

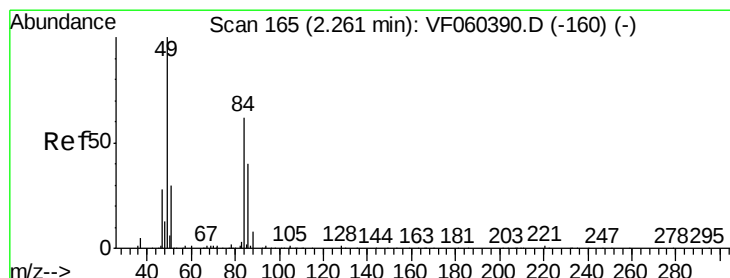
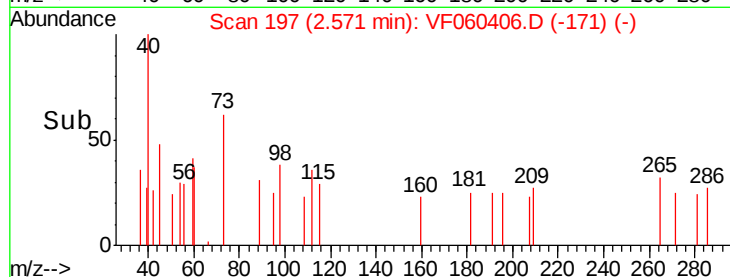
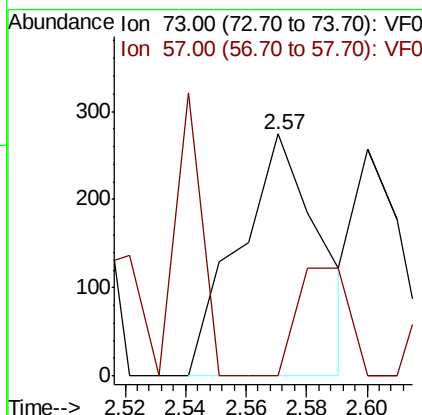
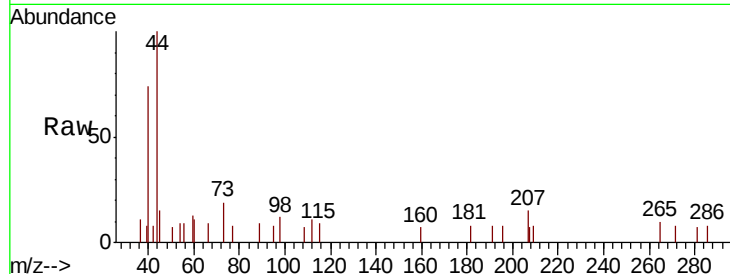




#19
Methyl tert-butyl Ether
Concen: 246.604 ug/l
RT: 2.57 min Scan# 197
Delta R.T. 0.05 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

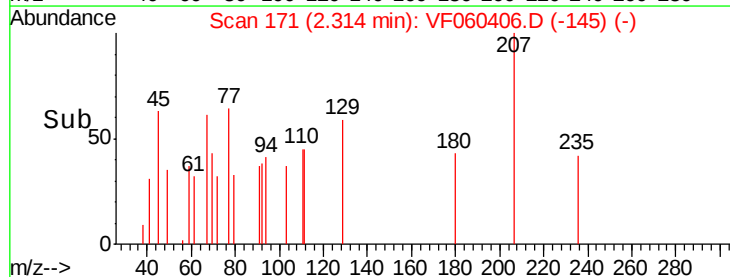
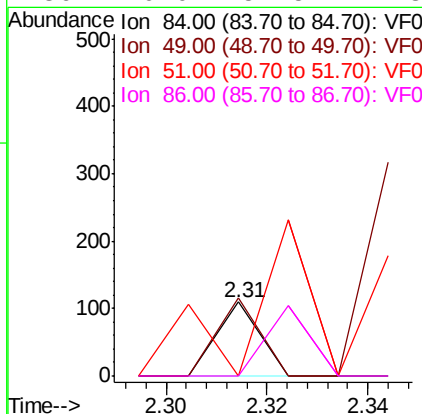
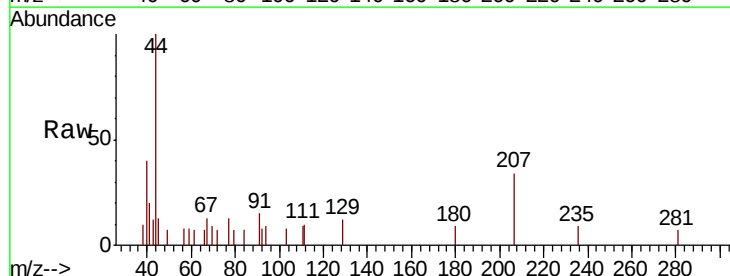
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-2

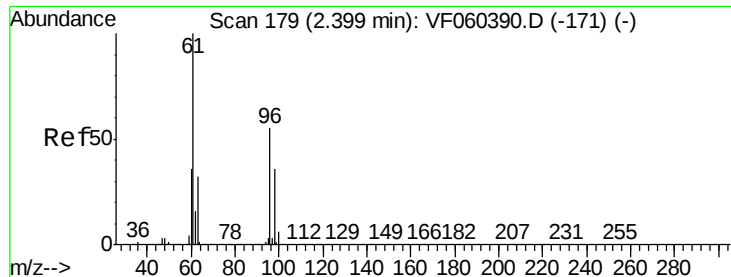
Tot Ion: 73 Resp: 510
Ion Ratio Lower Upper
73 100
57 0.0 15.9 23.9#



#20
Methylene Chloride
Concen: 83.823 ug/l
RT: 2.31 min Scan# 171
Delta R.T. 0.05 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

Tgt Ion: 84 Resp: 64
Ion Ratio Lower Upper
84 100
49 106.4 130.2 195.2#
51 0.0 41.0 61.6#
86 0.0 51.5 77.3#





#21

trans-1,2-Dichloroethene

Concen: 353.769 ug/l

RT: 2.48 min Scan# 188

Delta R.T. 0.08 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

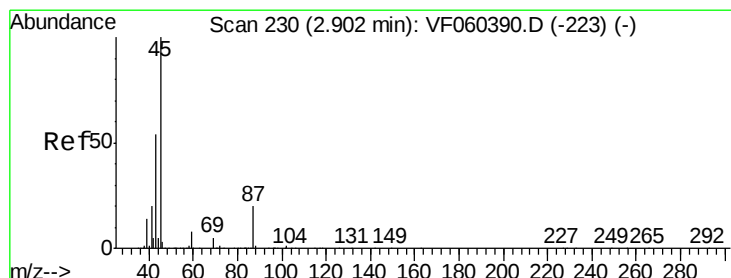
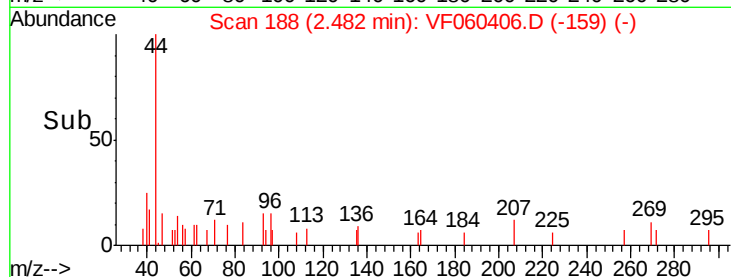
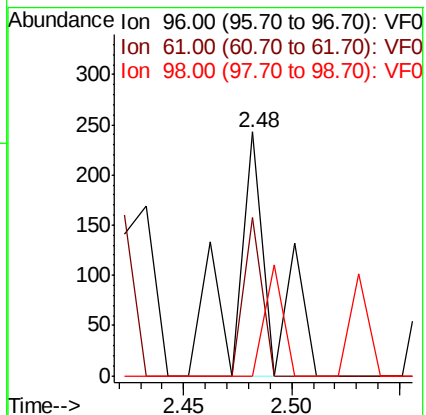
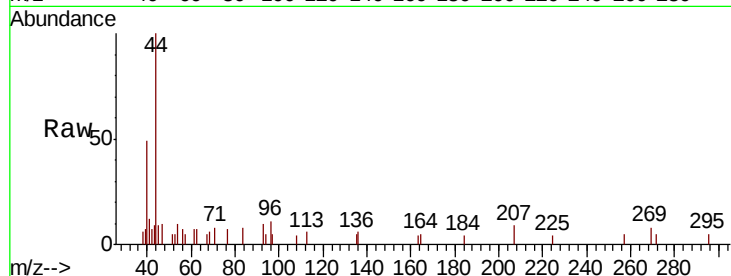
Tot Ion: 96 Resp: 300

Ion Ratio Lower Upper

96 100

61 64.6 146.2 219.2#

98 0.0 52.6 78.8#



#22

Diisopropyl ether

Concen: 38.874 ug/l

RT: 2.97 min Scan# 238

Delta R.T. 0.07 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Tgt Ion: 45 Resp: 96

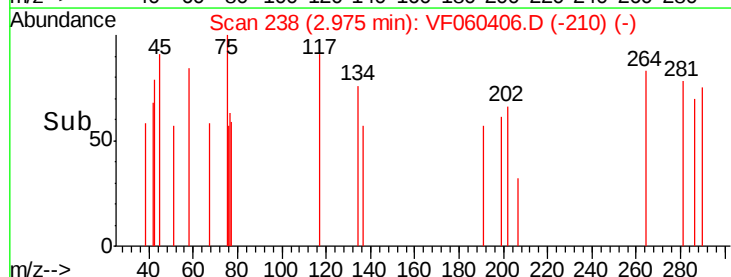
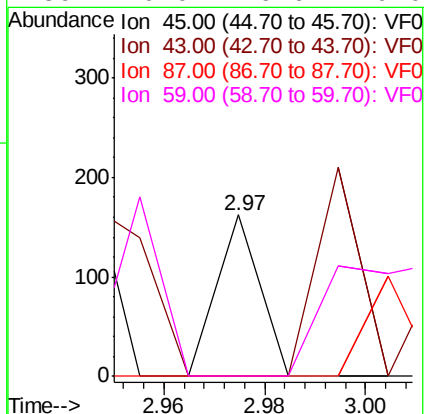
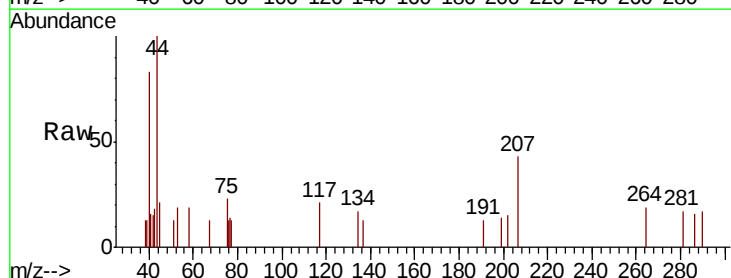
Ion Ratio Lower Upper

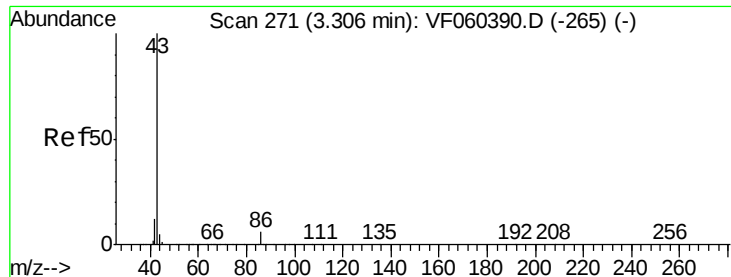
45 100

43 0.0 43.8 65.8#

87 0.0 16.3 24.5#

59 0.0 6.6 10.0#





#23

Vinyl Acetate

Concen: 278.293 ug/l

RT: 3.37 min Scan# 278

Delta R.T. 0.06 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampled :

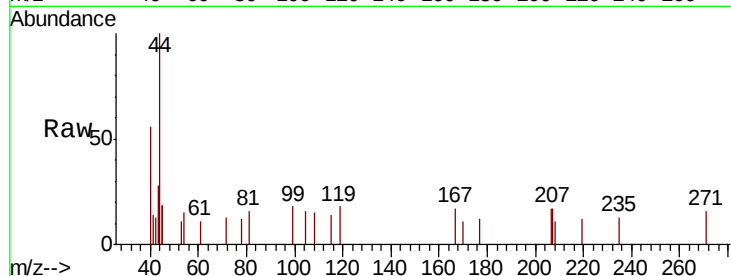
HC-SOIL-2

Tot Ion: 43 Resp: 273

Ion Ratio Lower Upper

43 100

86 0.0 5.1 7.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

3.37

250

200

150

100

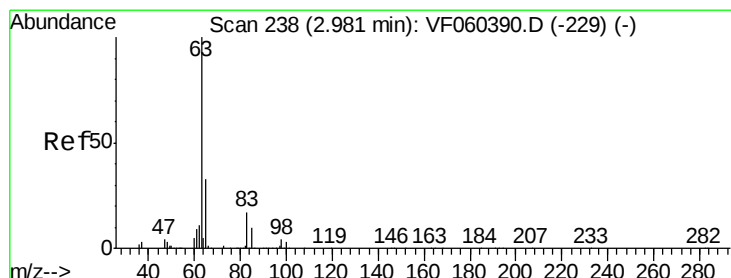
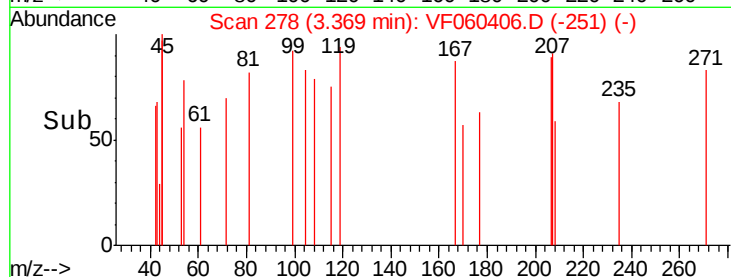
50

0

3.36

3.38

Time-->



#24

1,1-Dichloroethane

Concen: 43.114 ug/l

RT: 3.06 min Scan# 247

Delta R.T. 0.08 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

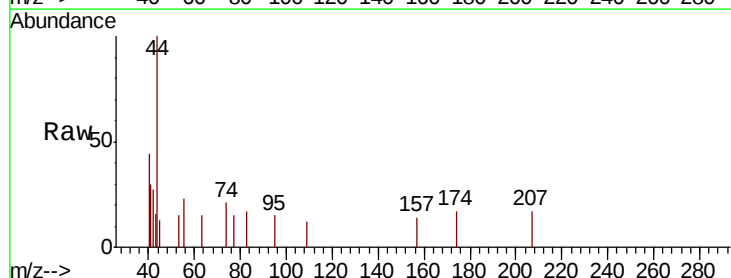
Tgt Ion: 63 Resp: 72

Ion Ratio Lower Upper

63 100

98 0.0 2.0 5.8#

100 0.0 1.4 4.2#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

150

100

50

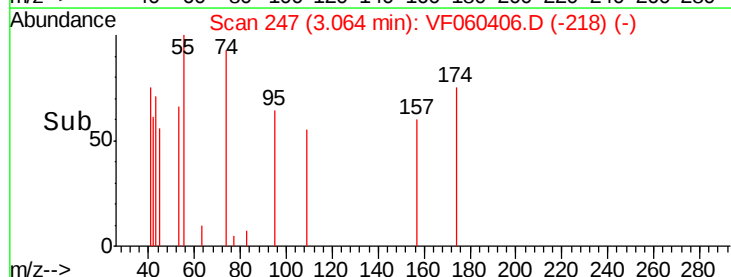
0

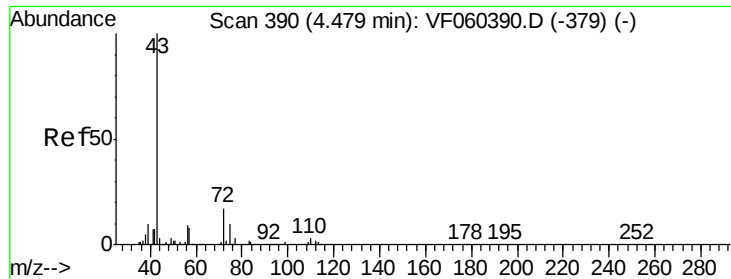
3.04

3.06

3.08

Time-->





#25

2-Butanone

Concen: 211.551 ug/l

RT: 4.58 min Scan# 401

Delta R.T. 0.10 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampled :

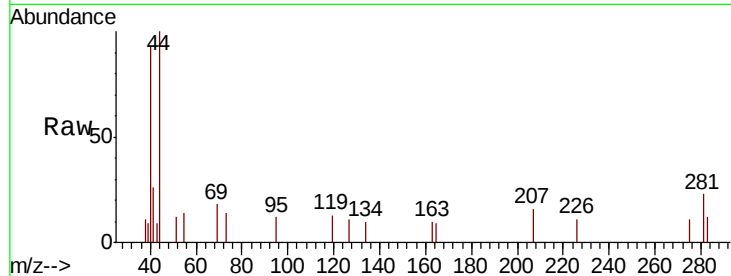
HC-SOIL-2

Tot Ion: 43 Resp: 60

Ion Ratio Lower Upper

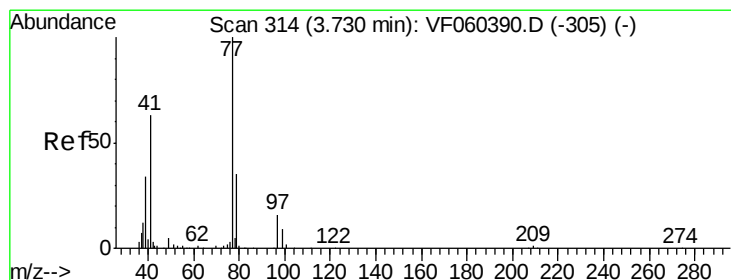
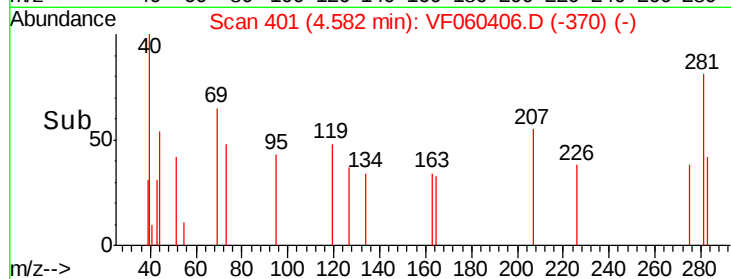
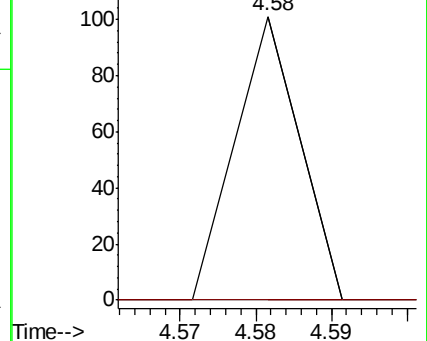
43 100

72 0.0 14.1 21.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#26

2,2-Dichloropropane

Concen: 86.695 ug/l

RT: 3.82 min Scan# 324

Delta R.T. 0.09 min

Lab File: VF060406.D

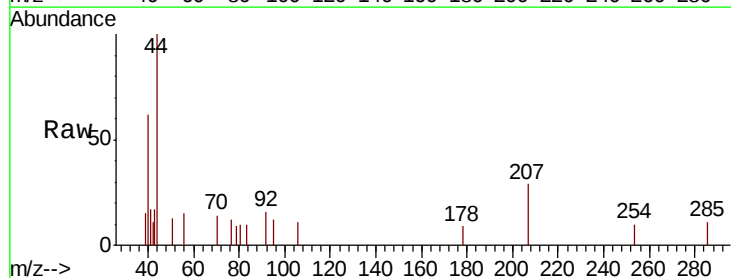
Acq: 2 Oct 2018 17:04

Tgt Ion: 77 Resp: 82

Ion Ratio Lower Upper

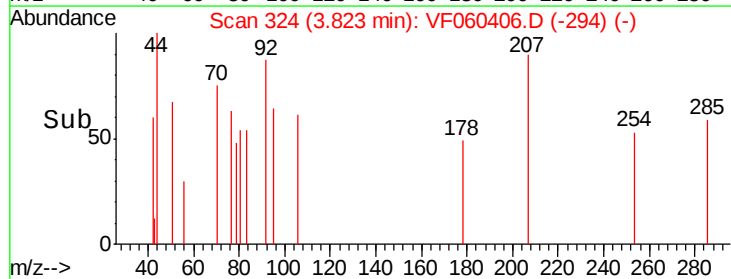
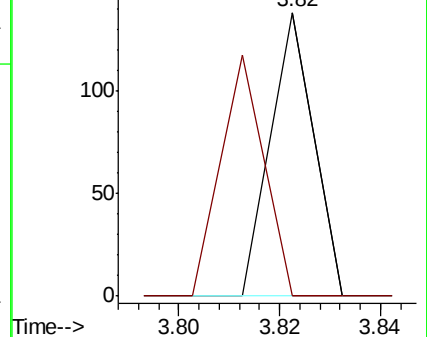
77 100

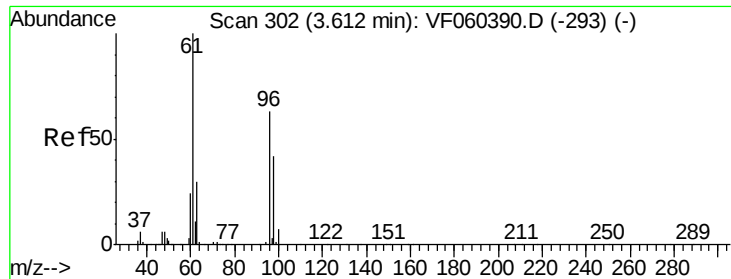
97 0.0 8.3 25.1#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0



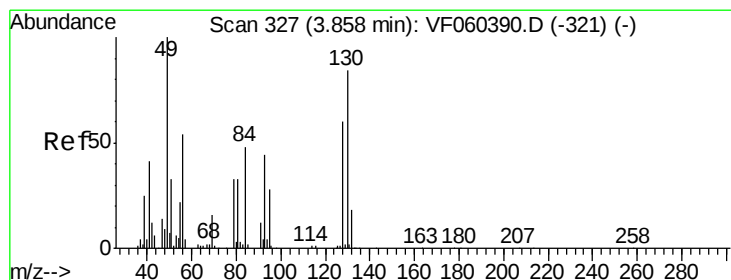
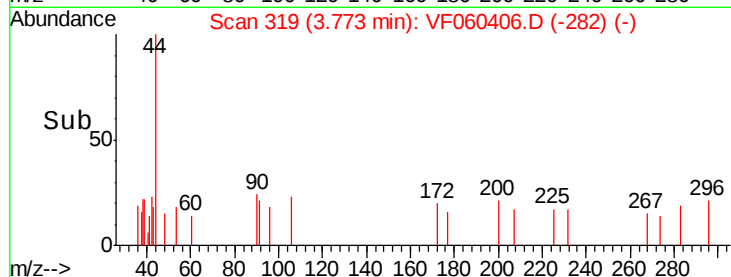
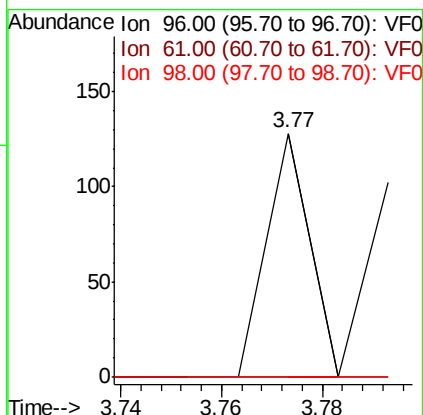
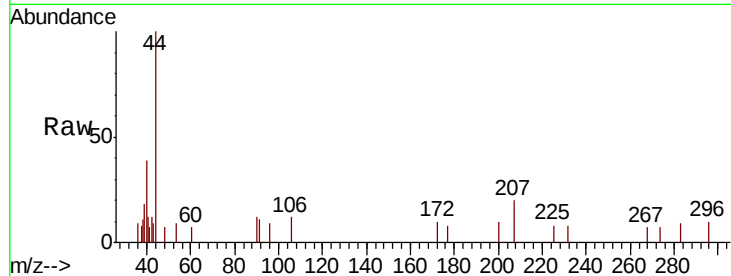


#27

cis-1,2-Dichloroethene
Concen: 80.157 ug/l
RT: 3.77 min Scan# 319
Delta R.T. 0.16 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-2

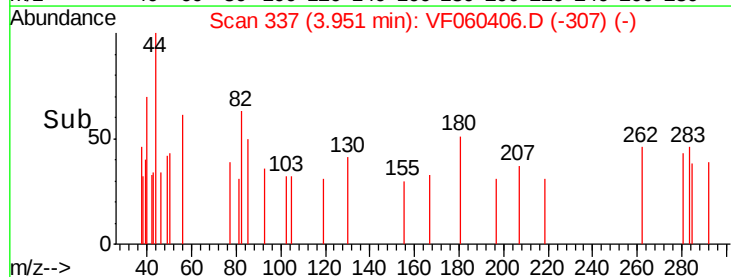
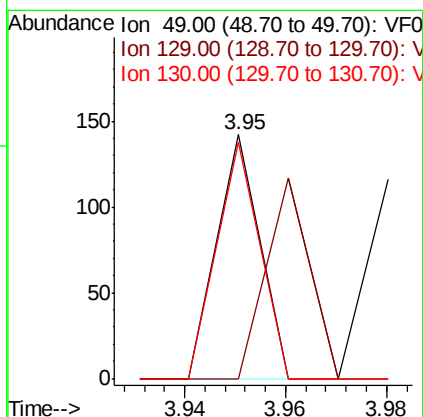
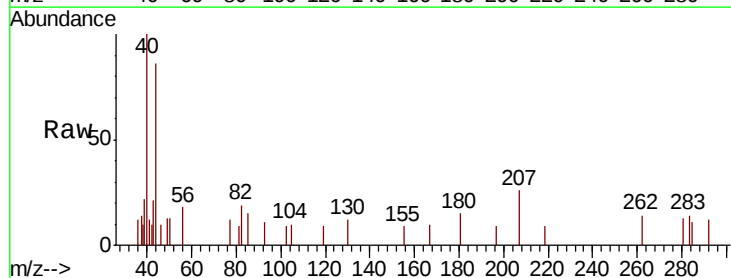
Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	0.0	318.2
98	0.0	0.0	134.0

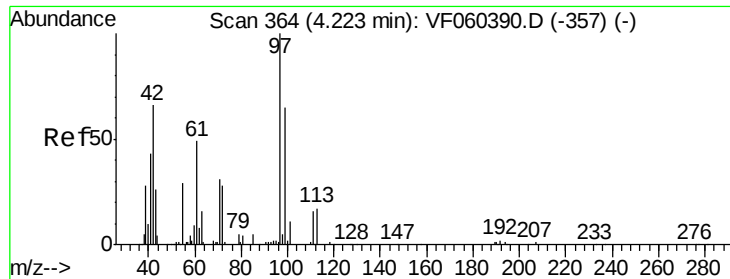


#28

Bromochloromethane
Concen: 136.479 ug/l
RT: 3.95 min Scan# 337
Delta R.T. 0.09 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	97.2	67.3	100.9





#29

Tetrahydrofuran

Concen: 901.122 ug/l

RT: 4.32 min Scan# 374

Delta R.T. 0.09 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-2

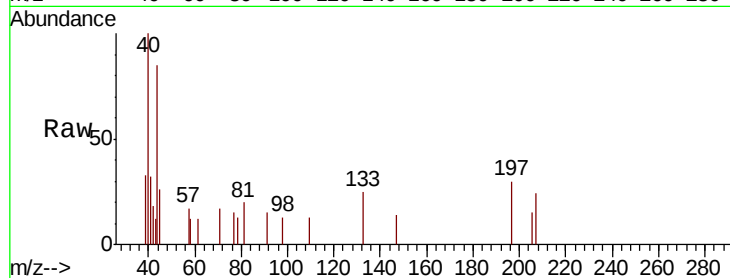
Tot Ion: 42 Resp: 95

Ion Ratio Lower Upper

42 100

72 89.5 33.6 50.4#

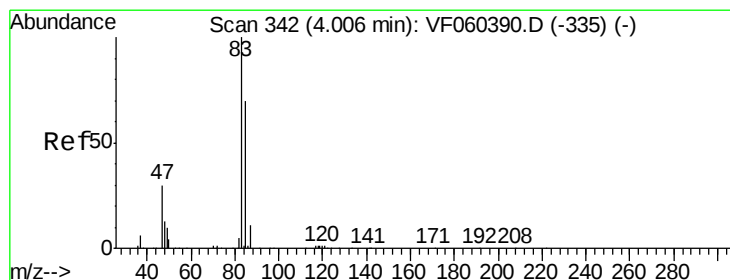
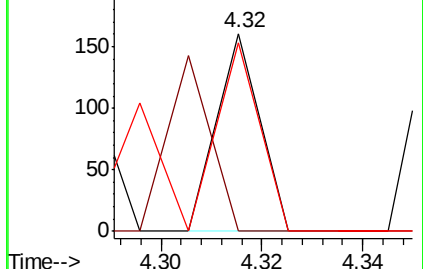
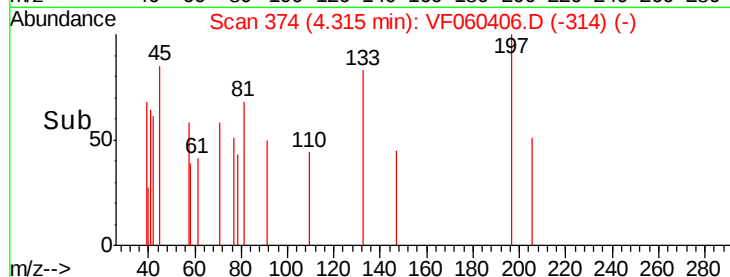
71 65.3 32.7 49.1#



Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



#30

Chloroform

Concen: 87.835 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.09 min

Lab File: VF060406.D

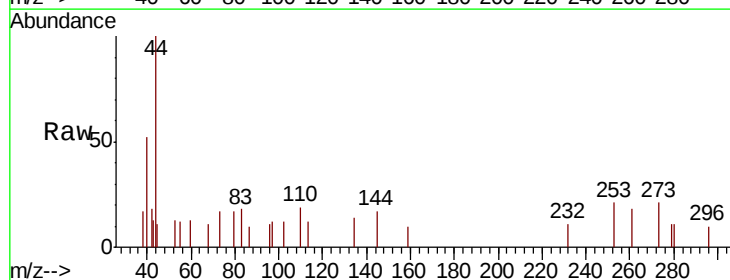
Acq: 2 Oct 2018 17:04

Tgt Ion: 83 Resp: 181

Ion Ratio Lower Upper

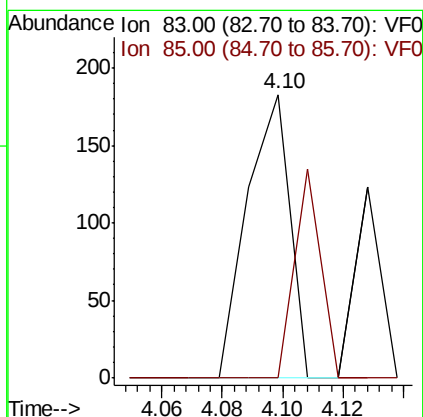
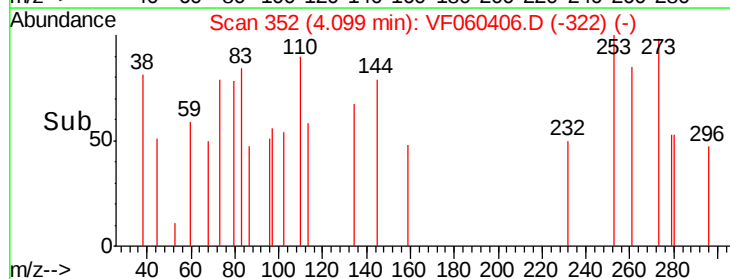
83 100

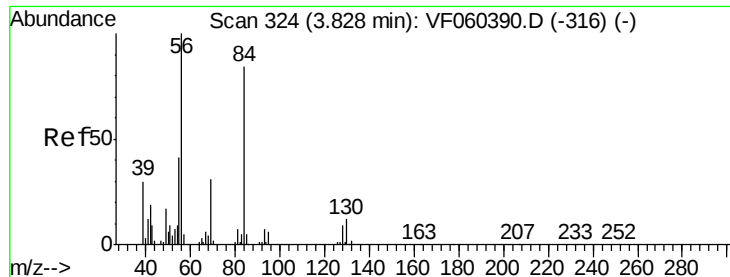
85 0.0 55.9 83.9#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

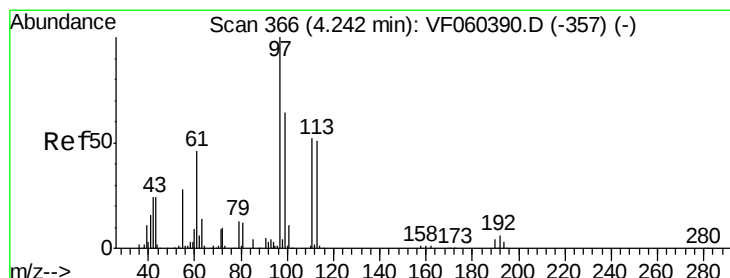
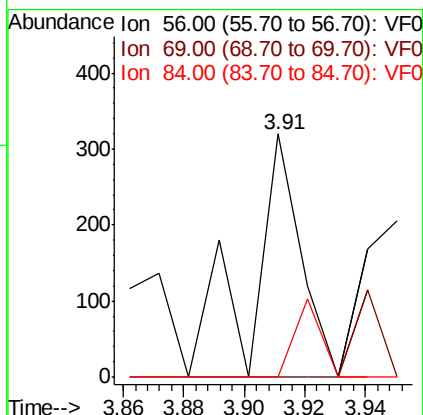
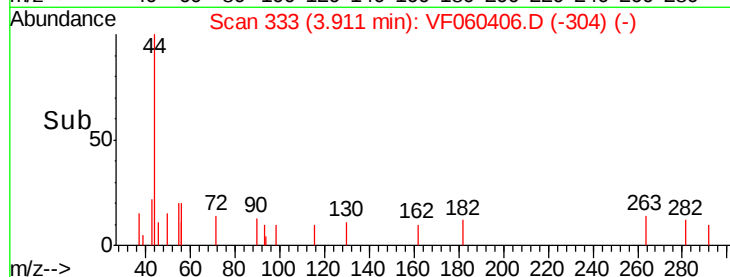
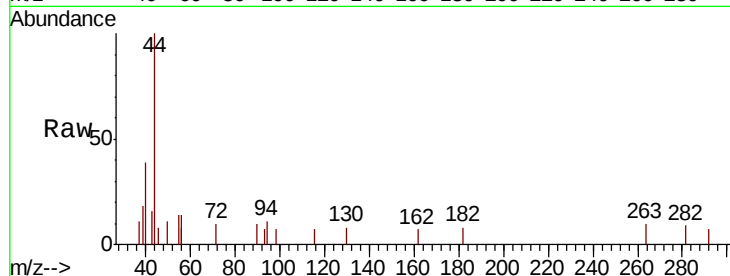




#31
Cvclohexane
Concen: 306.043 ug/l
RT: 3.91 min Scan# 333
Delta R.T. 0.08 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

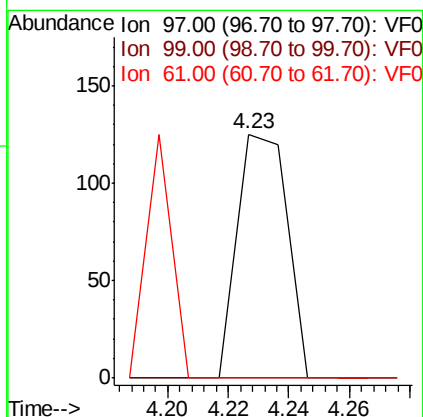
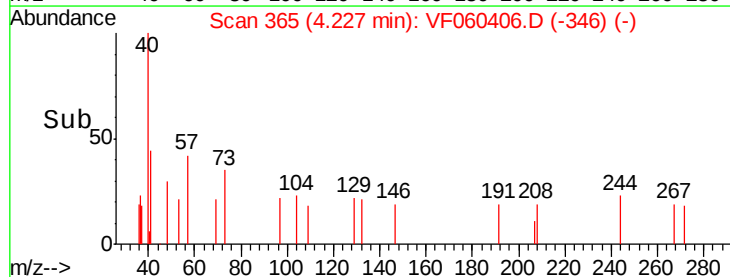
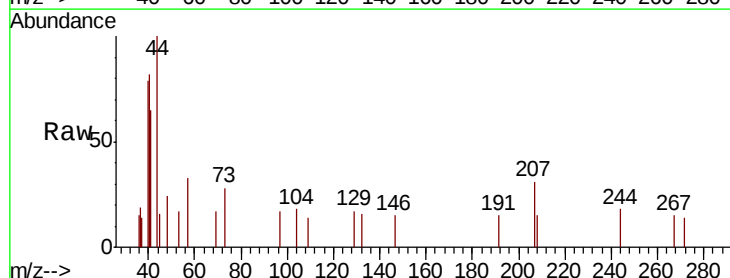
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-2

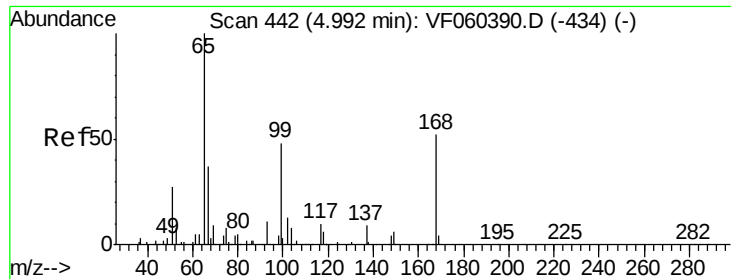
Tot Ion: 56 Resp: 367
Ion Ratio Lower Upper
56 100
69 0.0 25.5 38.3#
84 0.0 67.4 101.0#



#32
1,1,1-Trichloroethane
Concen: 84.559 ug/l
RT: 4.23 min Scan# 365
Delta R.T. -0.02 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

Tgt Ion: 97 Resp: 145
Ion Ratio Lower Upper
97 100
99 0.0 51.0 76.4#
61 0.0 37.5 56.3#





#33

1,2-Dichloroethane-d4

Concen: 157.942 ug/l

RT: 5.14 min Scan# 458

Delta R.T. 0.15 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampled :

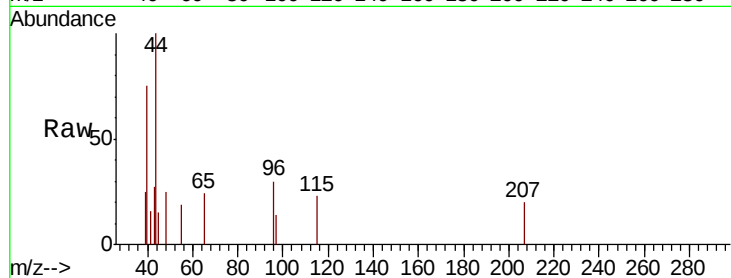
HC-SOIL-2

Tot Ion: 65 Resp: 173

Ion Ratio Lower Upper

65 100

67 0.0 0.0 89.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

5.14

150

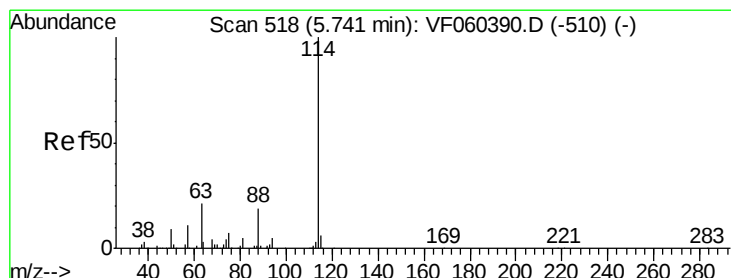
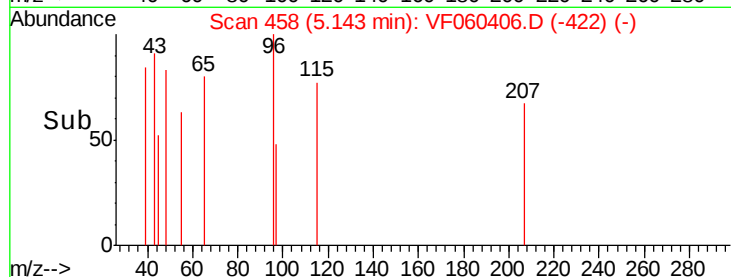
100

50

0

5.10 5.12 5.14 5.16 5.18

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.68 min Scan# 512

Delta R.T. -0.07 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

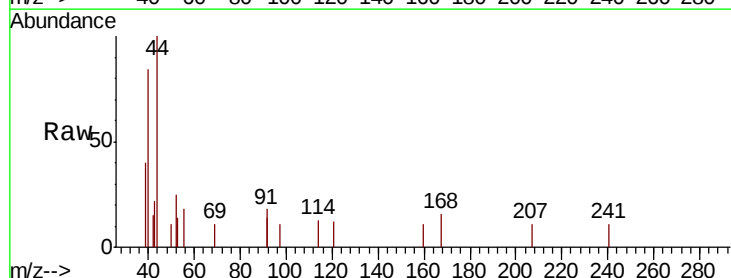
Tgt Ion: 114 Resp: 72

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

150

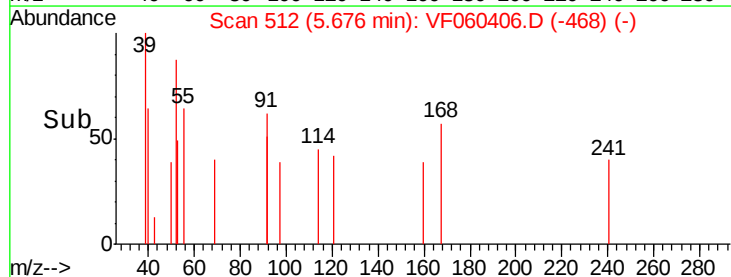
100

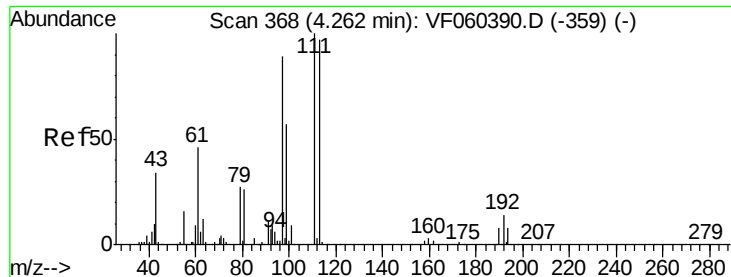
50

0

5.64 5.66 5.68 5.70

Time-->





#35

Dibromofluoromethane

Concen: 180.368 ug/l

RT: 4.20 min Scan# 362

Delta R.T. -0.07 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

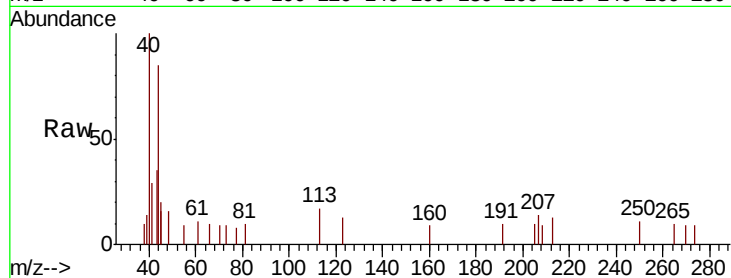
Tot Ion:113 Resp: 122

Ion Ratio Lower Upper

113 100

111 0.0 82.3 123.5#

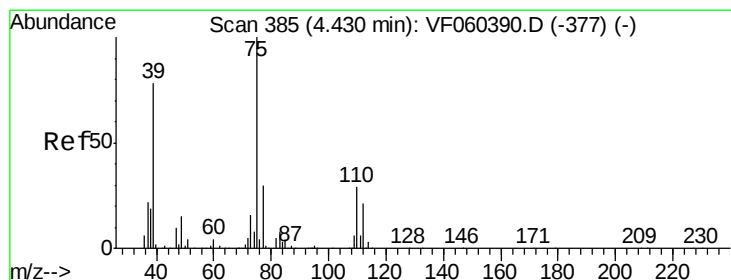
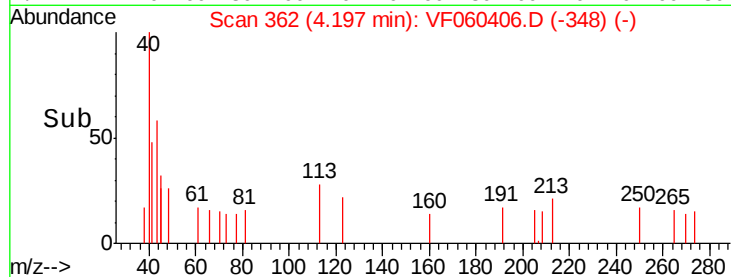
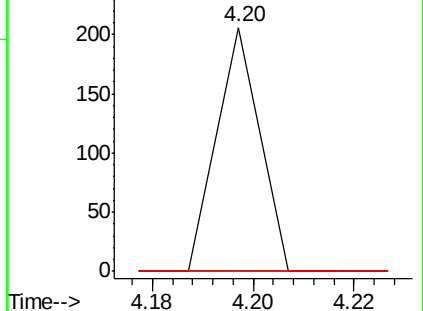
192 0.0 11.8 17.6#



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: 82.235 ug/l

RT: 4.37 min Scan# 380

Delta R.T. -0.06 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

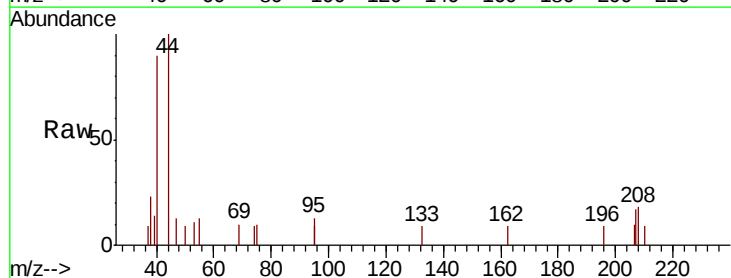
Tgt Ion: 75 Resp: 73

Ion Ratio Lower Upper

75 100

110 0.0 14.5 43.6#

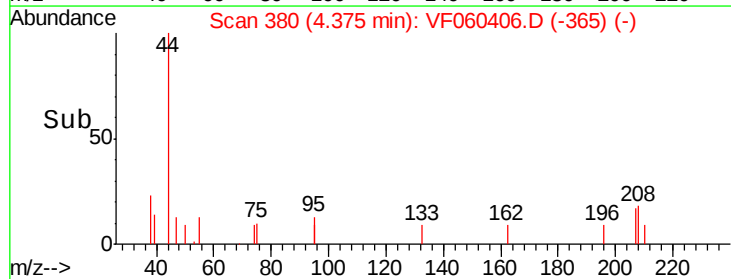
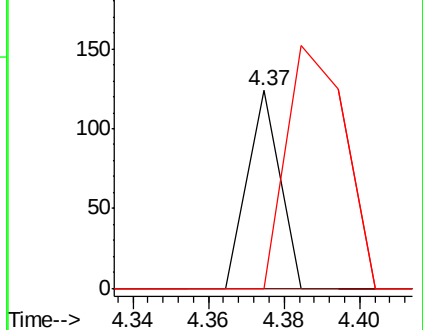
77 0.0 24.3 36.5#

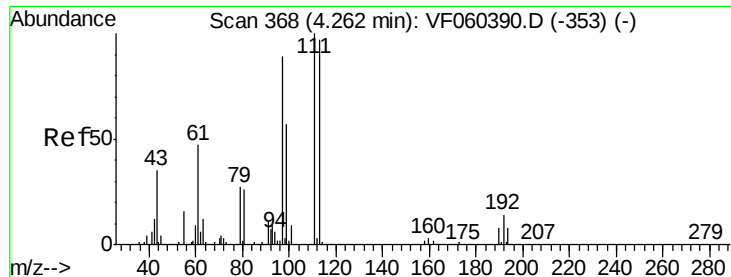


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0





#37

Ethyl Acetate

Concen: 732.489 ug/l

RT: 4.20 min Scan# 362

Delta R.T. -0.07 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-2

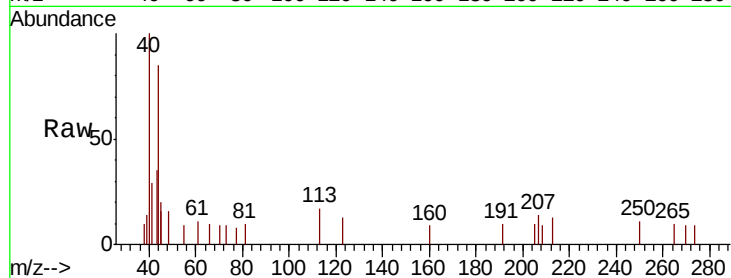
Tot Ion: 43 Resp: 249

Ion Ratio Lower Upper

43 100

61 29.7 105.1 157.7#

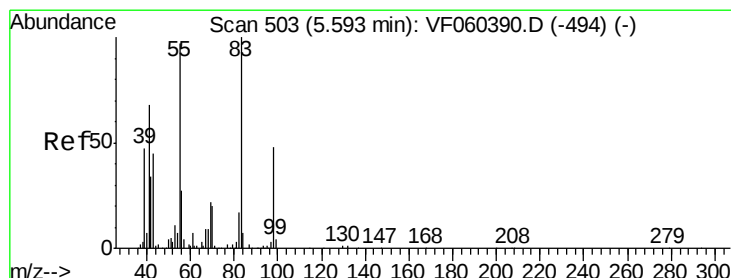
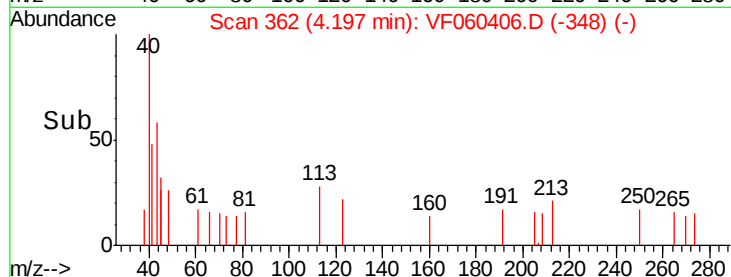
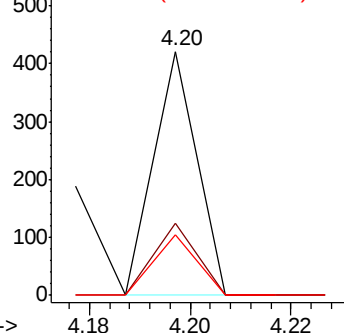
70 24.9 8.0 12.0#



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



#39

Methylcyclohexane

Concen: 76.989 ug/l

RT: 5.57 min Scan# 501

Delta R.T. -0.03 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

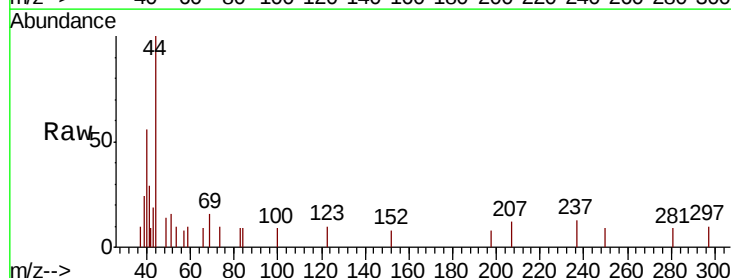
Tgt Ion: 83 Resp: 67

Ion Ratio Lower Upper

83 100

55 0.0 77.5 116.3#

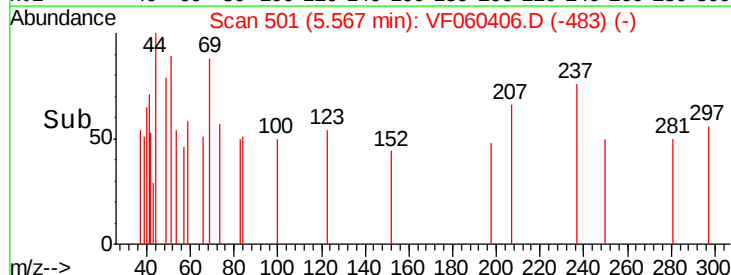
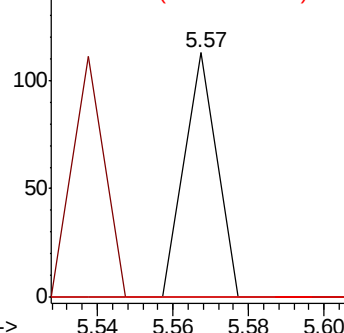
98 0.0 38.7 58.1#

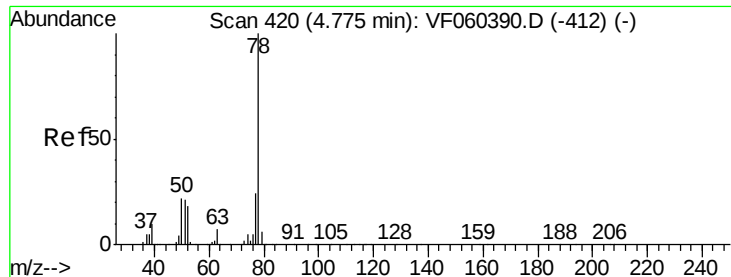


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: 41.991 ug/l

RT: 4.61 min Scan# 404

Delta R.T. -0.16 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

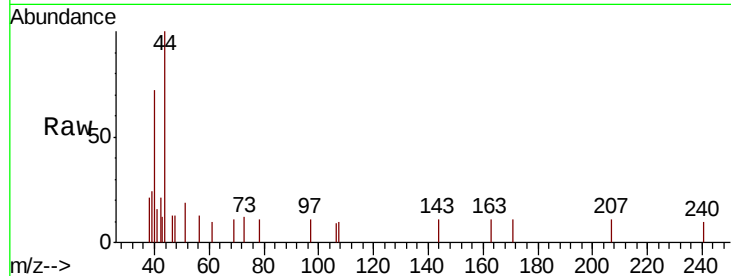
HC-SOIL-2

Tot Ion: 78 Resp: 74

Ion Ratio Lower Upper

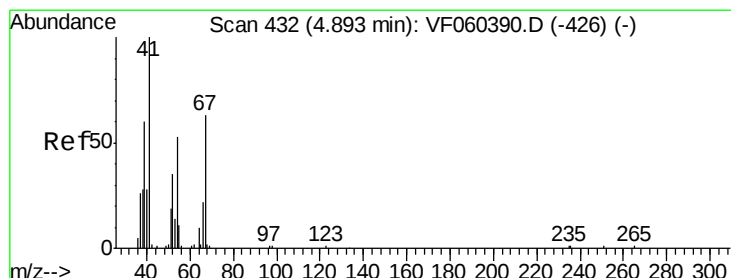
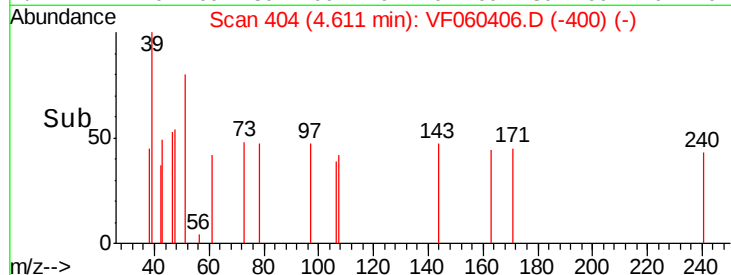
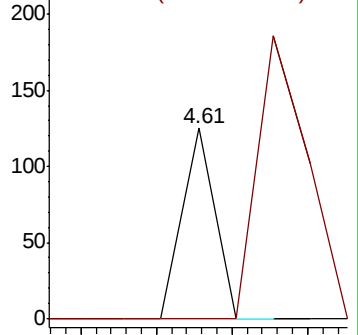
78 100

77 0.0 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: 6014.141 ug/l

RT: 4.82 min Scan# 425

Delta R.T. -0.07 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Tgt Ion: 41 Resp: 1084

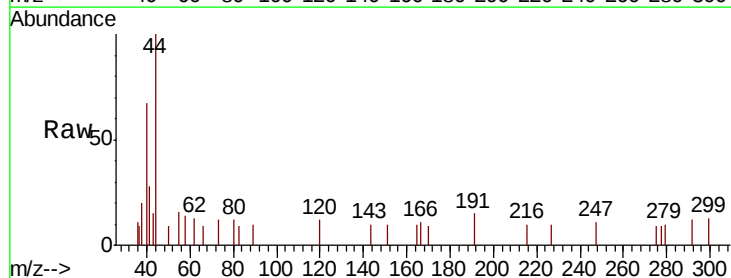
Ion Ratio Lower Upper

41 100

39 0.0 55.0 82.4#

67 0.0 49.6 74.4#

52 0.0 38.8 58.2#

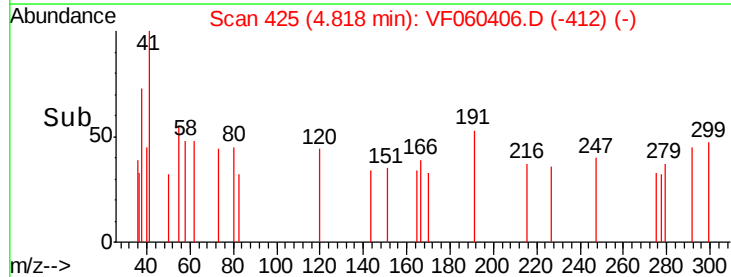
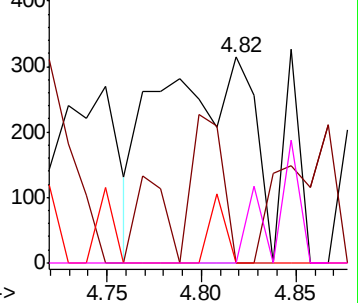


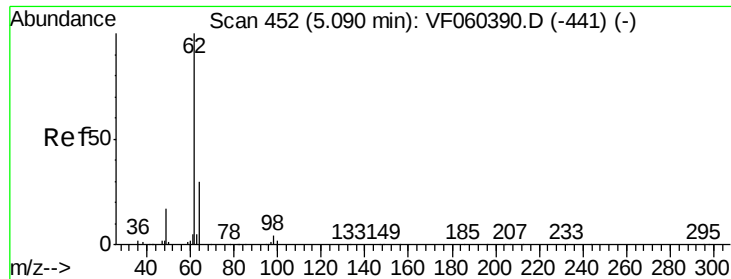
Abundance Ion 41.00 (40.70 to 41.70): VF0

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: 78.503 ug/l

RT: 4.93 min Scan# 436

Delta R.T. -0.16 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

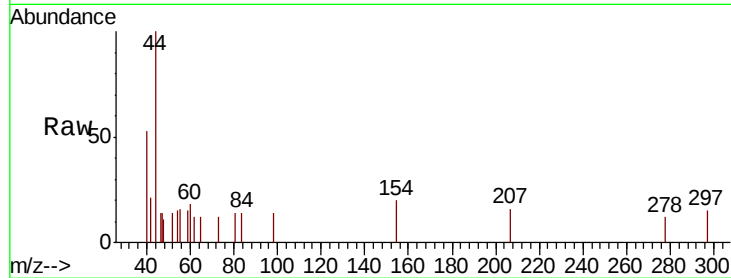
HC-SOIL-2

Tot Ion: 62 Resp: 66

Ion Ratio Lower Upper

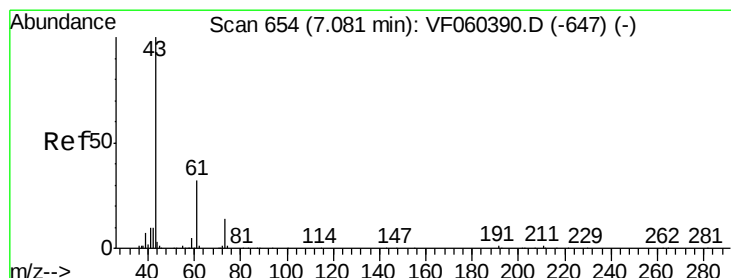
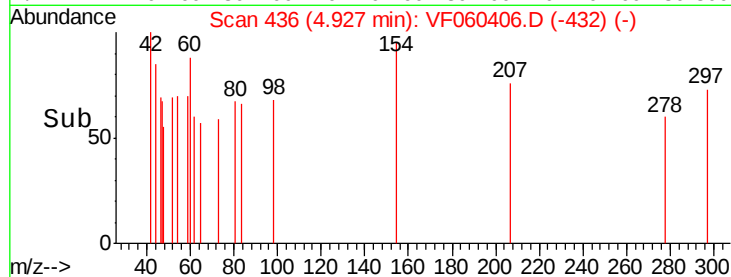
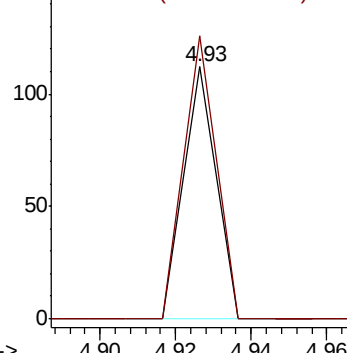
62 100

98 112.5 0.0 11.2#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#43

Isopropyl Acetate

Concen: 710.798 ug/l

RT: 6.98 min Scan# 644

Delta R.T. -0.10 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

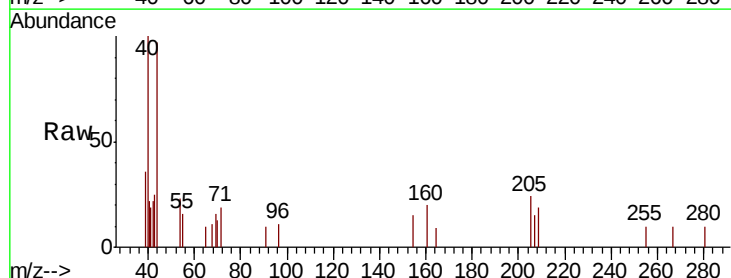
Tgt Ion: 43 Resp: 292

Ion Ratio Lower Upper

43 100

61 0.0 25.4 38.2#

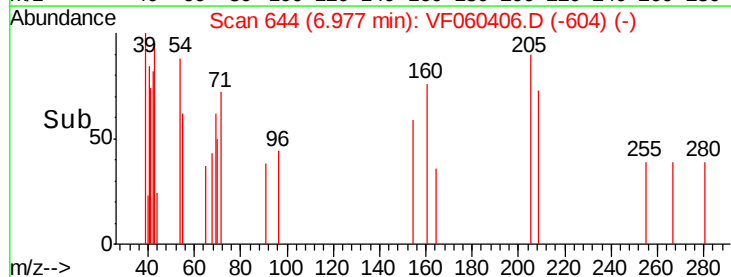
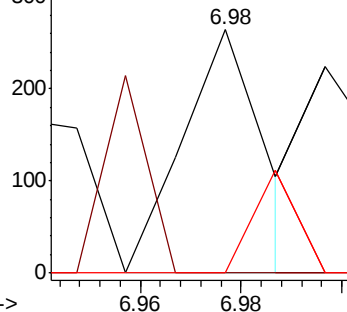
87 0.0 0.3 0.5#

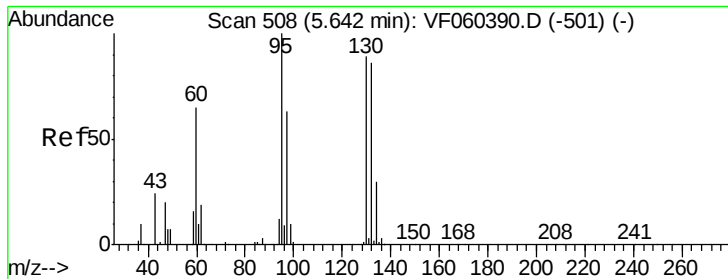


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#44

Trichloroethene

Concen: 150.324 ug/l

RT: 5.70 min Scan# 514

Delta R.T. 0.05 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

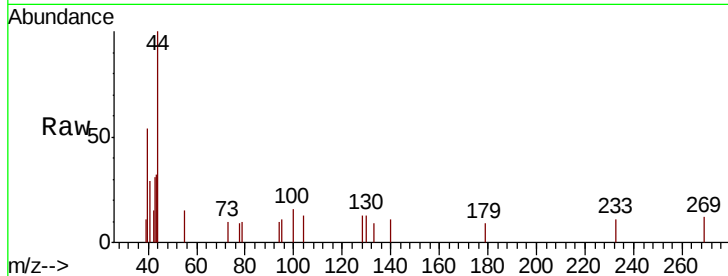
HC-SOIL-2

Tot Ion:130 Resp: 85

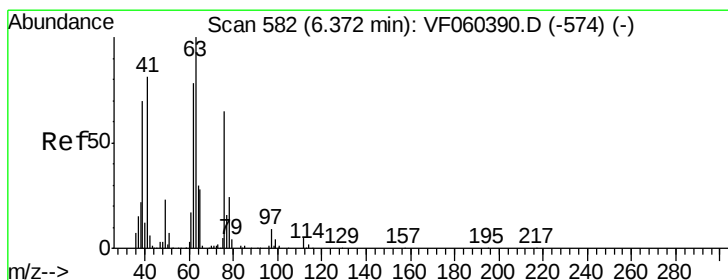
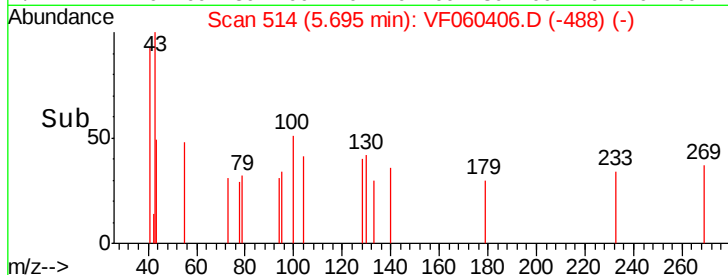
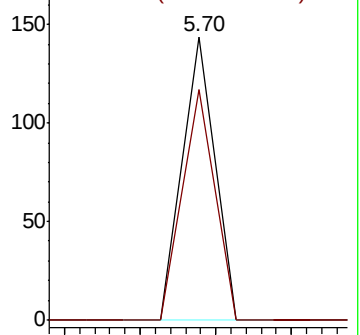
Ion Ratio Lower Upper

130 100

95 81.3 0.0 224.4



Abundance Ion 129.90 (129.60 to 130.60): VF0



#45

1,2-Dichloropropane

Concen: 481.560 ug/l

RT: 6.28 min Scan# 573

Delta R.T. -0.09 min

Lab File: VF060406.D

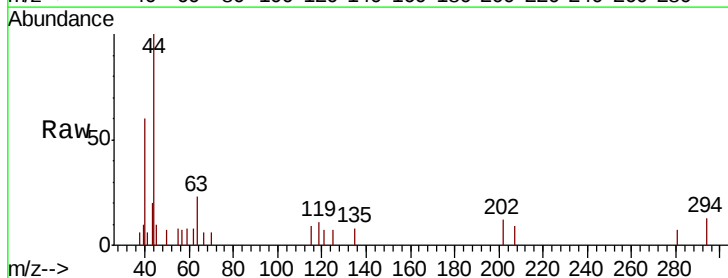
Acq: 2 Oct 2018 17:04

Tgt Ion: 63 Resp: 226

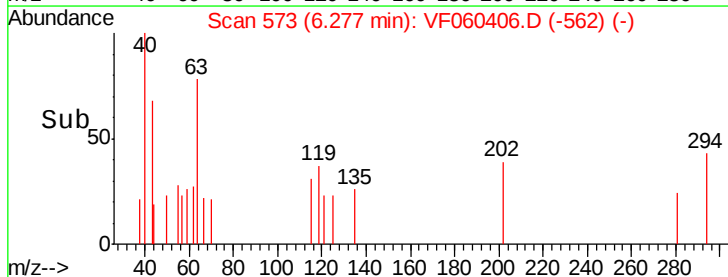
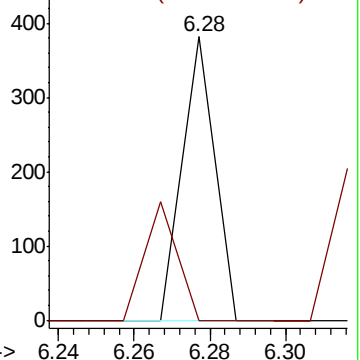
Ion Ratio Lower Upper

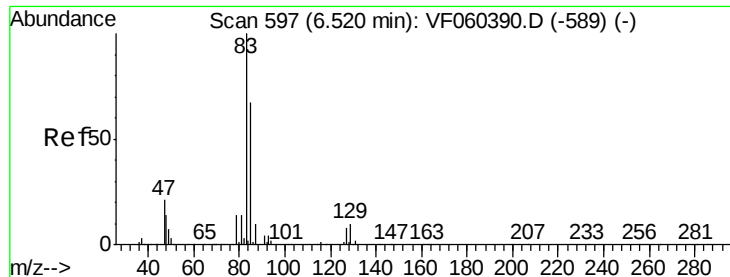
63 100

65 0.0 22.7 34.1#



Abundance Ion 63.00 (62.70 to 63.70): VF0





#47

Bromodichloromethane

Concen: 112.359 ug/l

RT: 6.42 min Scan# 588

Delta R.T. -0.09 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

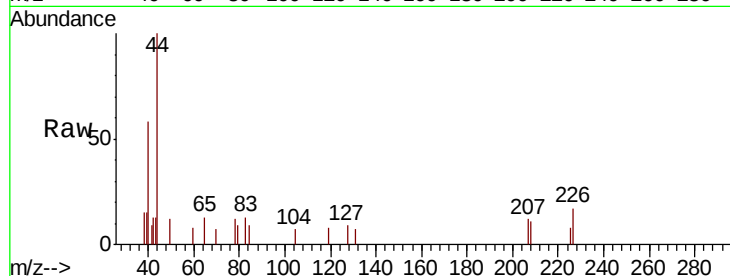
Tot Ion: 83 Resp: 105

Ion Ratio Lower Upper

83 100

85 0.0 53.2 79.8#

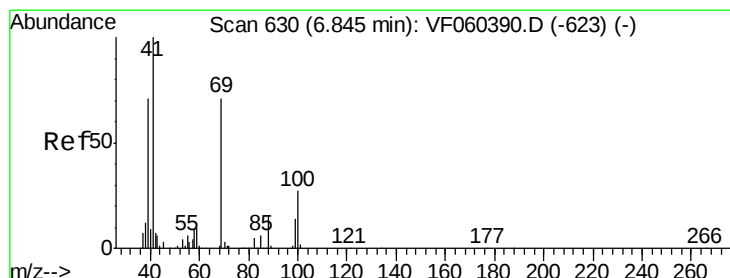
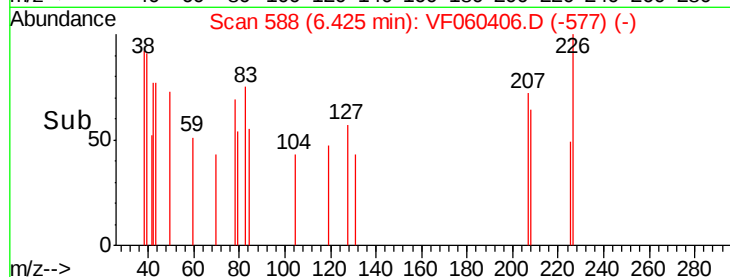
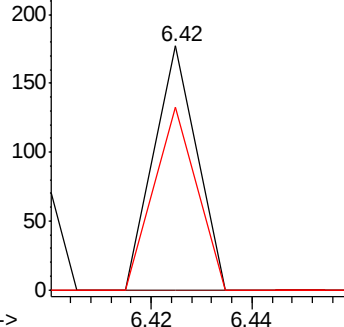
127 75.1 6.6 9.8#



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: 2912.950 ug/l

RT: 6.79 min Scan# 625

Delta R.T. -0.06 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

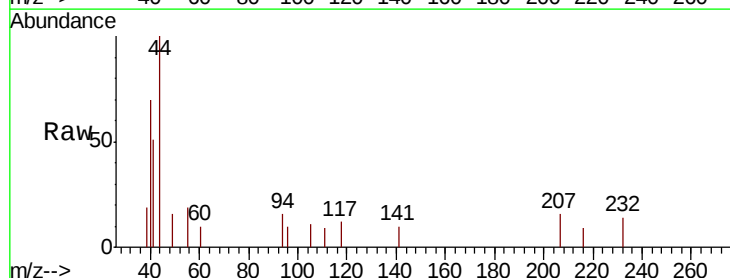
Tgt Ion: 41 Resp: 859

Ion Ratio Lower Upper

41 100

69 0.0 56.3 84.5#

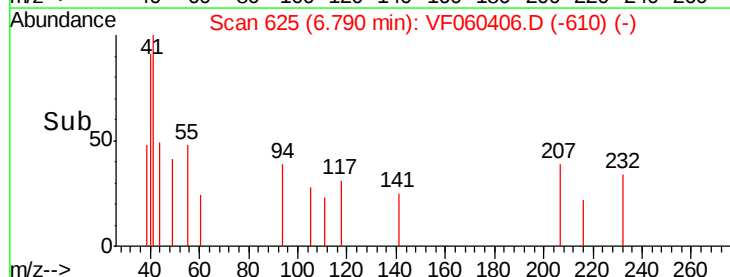
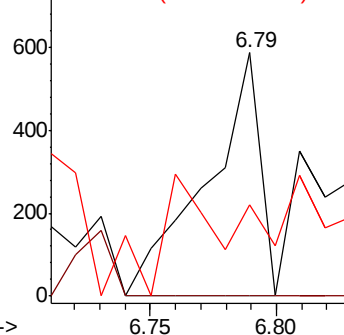
39 37.2 56.9 85.3#

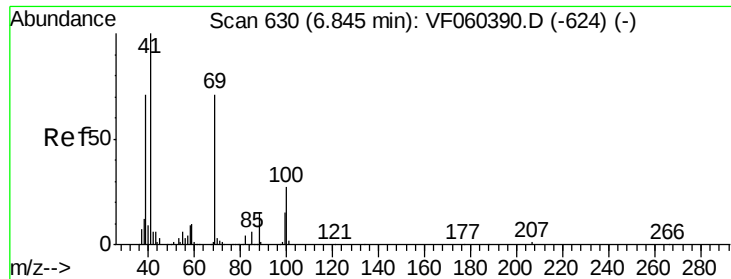


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

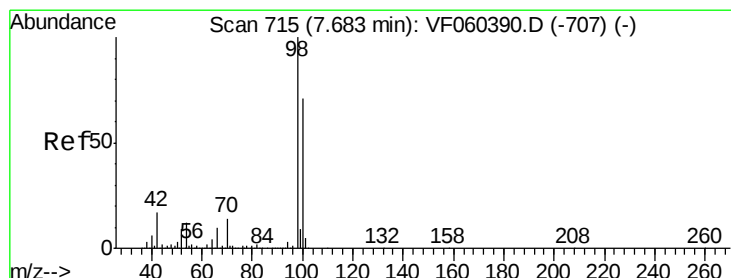
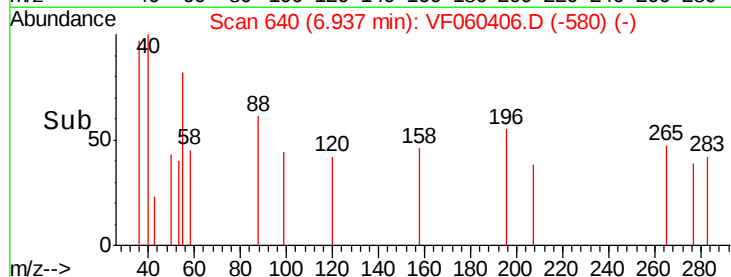
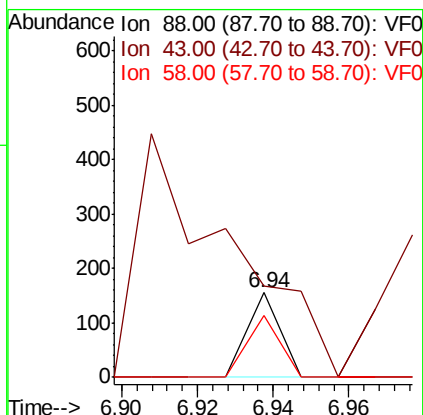
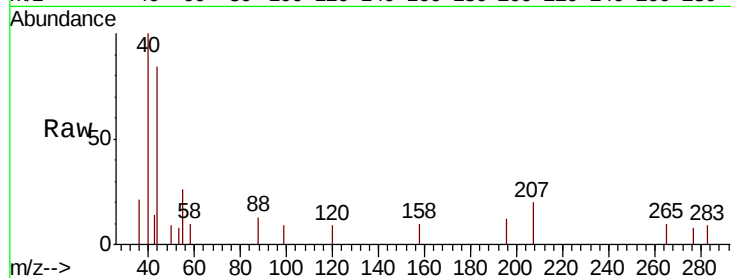




#49
1,4-Dioxane
Concen: 36183.352 ug/l
RT: 6.94 min Scan# 640
Delta R.T. 0.09 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

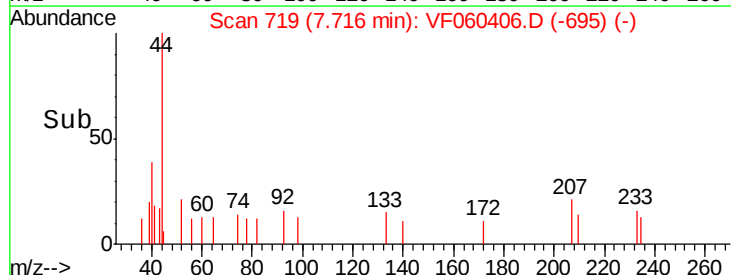
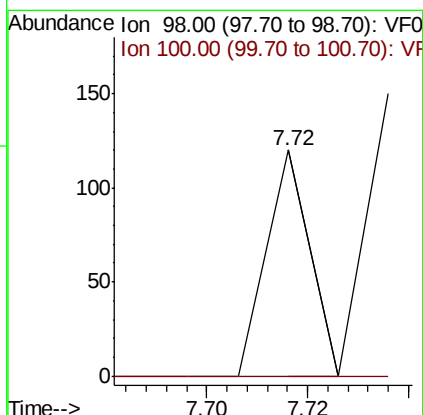
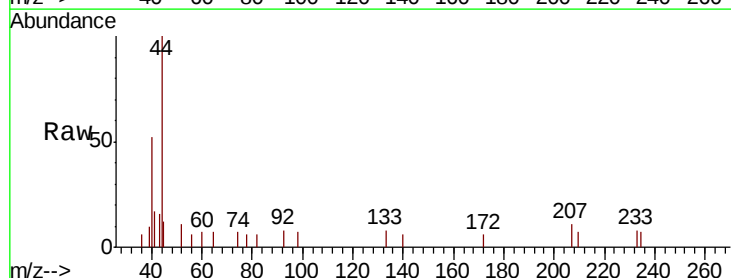
Instrument :
MSVOA_F
ClientSampleID :
HC-SOIL-2

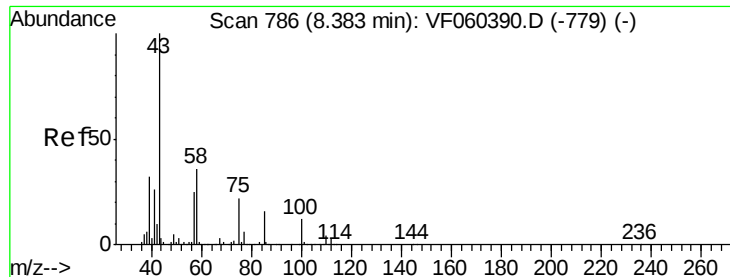
Tot Ion: 88 Resp: 92
Ion Ratio Lower Upper
88 100
43 108.3 38.3 57.5#
58 73.7 47.4 71.2#



#50
Toluene-d8
Concen: 42.622 ug/l
RT: 7.72 min Scan# 719
Delta R.T. 0.03 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

Tgt Ion: 98 Resp: 71
Ion Ratio Lower Upper
98 100
100 0.0 56.5 84.7#





#51

4-Methyl-2-Pentanone

Concen: 1494.375 ug/l

RT: 8.34 min Scan# 782

Delta R.T. -0.05 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

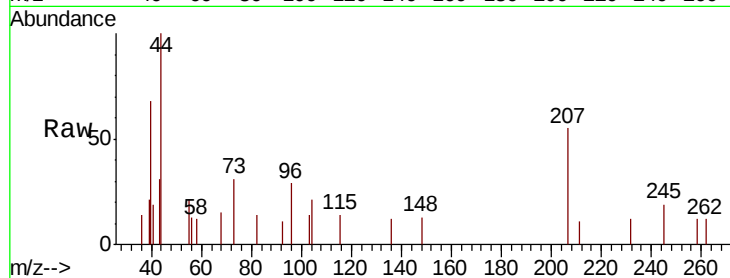
HC-SOIL-2

Tot Ion: 43 Resp: 437

Ion Ratio Lower Upper

43 100

58 38.7 28.5 42.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.34

300

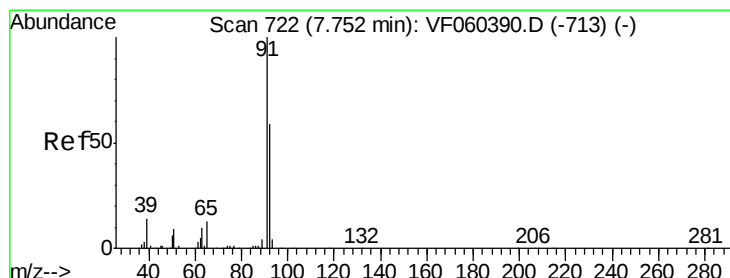
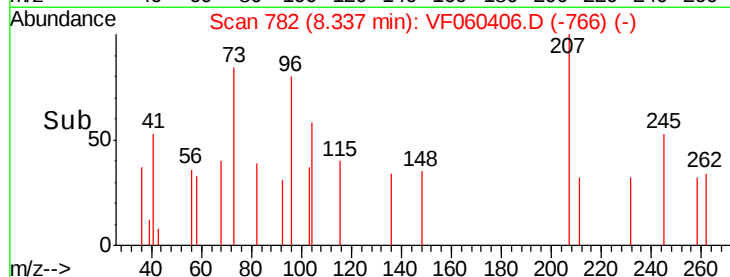
200

100

0

8.32 8.34 8.36 8.38

Time-->



#52

Toluene

Concen: 73.519 ug/l

RT: 7.72 min Scan# 719

Delta R.T. -0.04 min

Lab File: VF060406.D

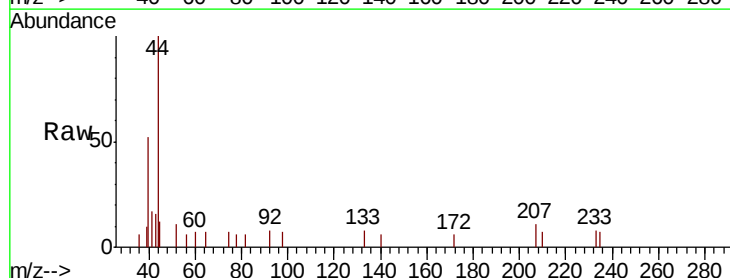
Acq: 2 Oct 2018 17:04

Tgt Ion: 92 Resp: 88

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

7.72

150

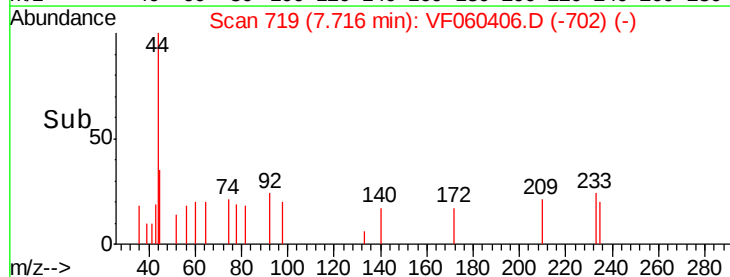
100

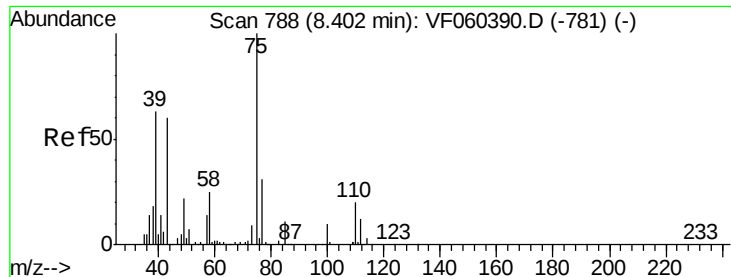
50

0

7.68 7.70 7.72 7.74

Time-->

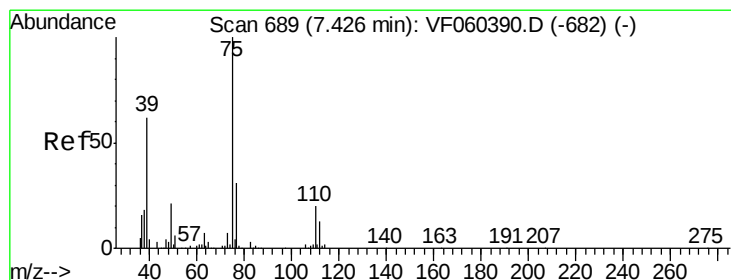
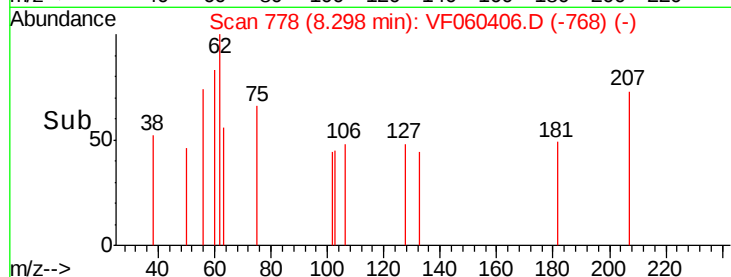
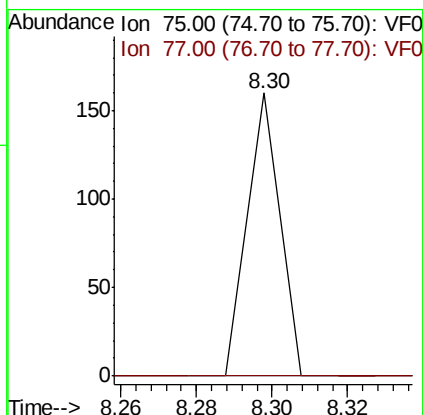
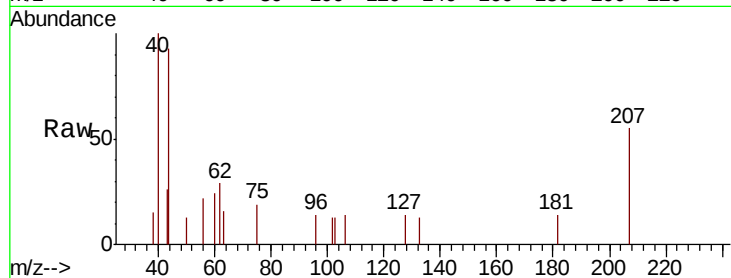




#53
 t-1,3-Dichloropropene
 Concen: 129.717 ug/l
 RT: 8.30 min Scan# 778
 Delta R.T. -0.10 min
 Lab File: VF060406.D
 Acq: 2 Oct 2018 17:04

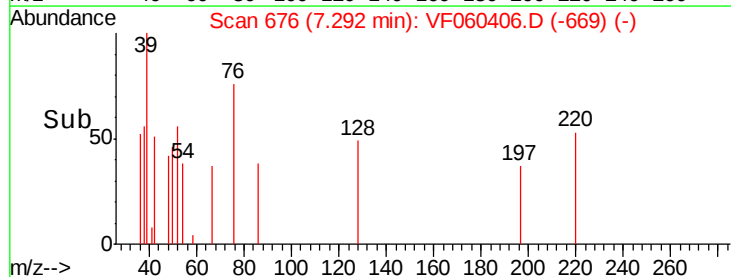
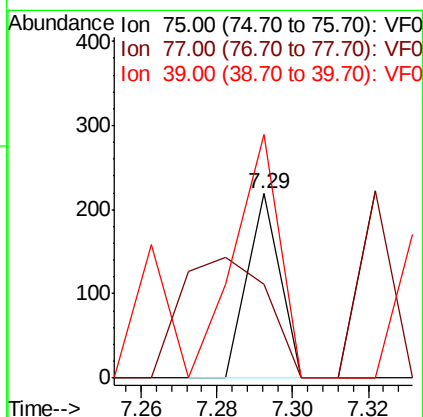
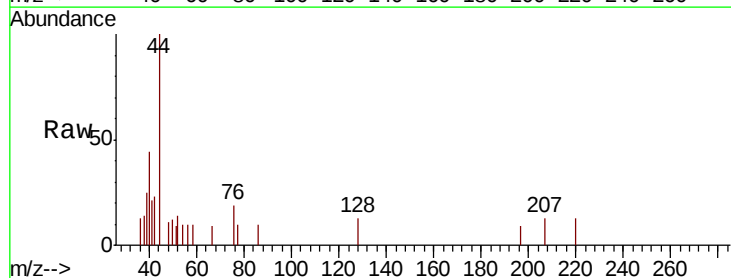
Instrument :
 MSVOA_F
 ClientSampled :
 HC-SOIL-2

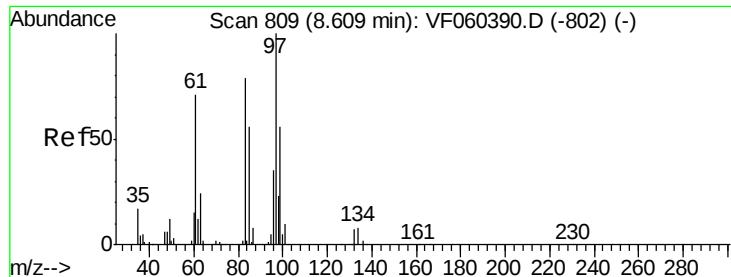
Tot Ion: 75 Resp: 95
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 36.8#



#54
 cis-1,3-Dichloropropene
 Concen: 151.881 ug/l
 RT: 7.29 min Scan# 676
 Delta R.T. -0.13 min
 Lab File: VF060406.D
 Acq: 2 Oct 2018 17:04

Tgt Ion: 75 Resp: 130
 Ion Ratio Lower Upper
 75 100
 77 51.1 25.2 37.8#
 39 132.0 49.7 74.5#





#55

1,1,2-Trichloroethane

Concen: 577.221 ug/l

RT: 8.49 min Scan# 798

Delta R.T. -0.11 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

Tot Ion: 97 Resp: 219

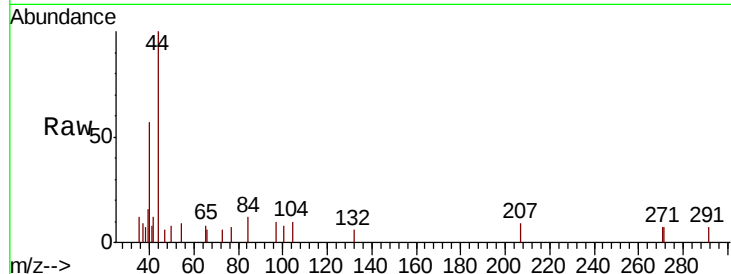
Ion Ratio Lower Upper

97 100

83 0.0 63.4 95.0#

85 0.0 44.5 66.7#

99 0.0 45.1 67.7#

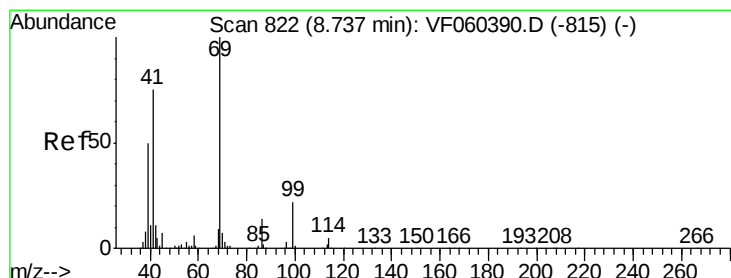
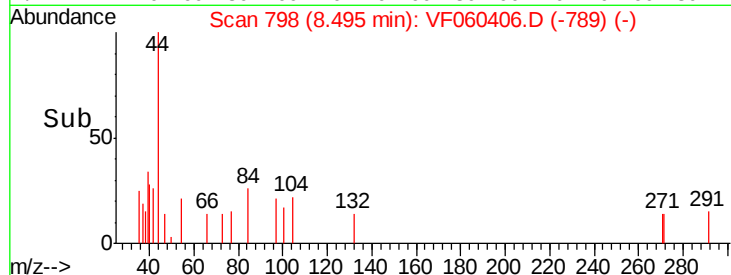
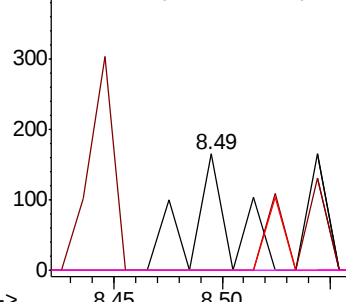


Abundance Ion 97.00 (96.70 to 97.70): VF0

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: 531.166 ug/l

RT: 8.69 min Scan# 818

Delta R.T. -0.05 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

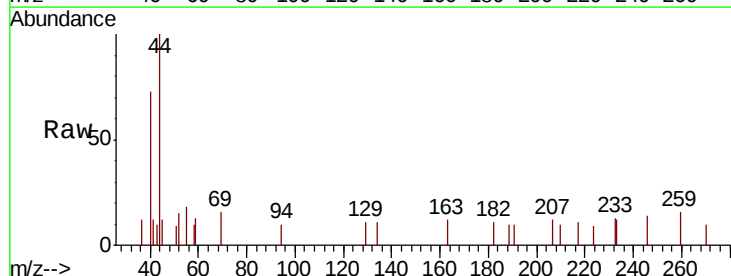
Tgt Ion: 69 Resp: 229

Ion Ratio Lower Upper

69 100

41 75.3 60.2 90.4

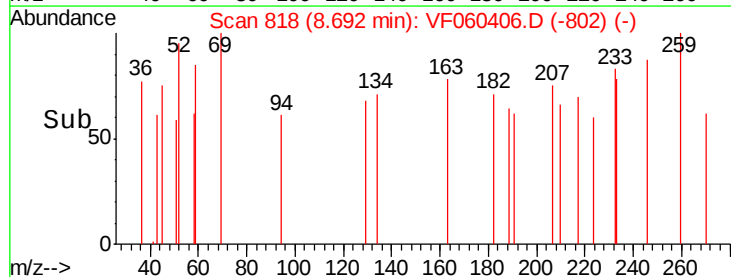
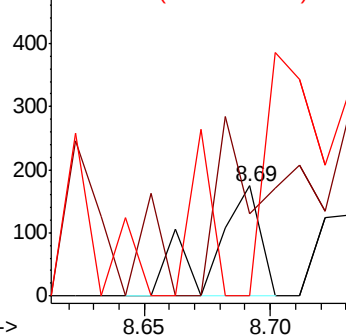
39 0.0 40.2 60.2#

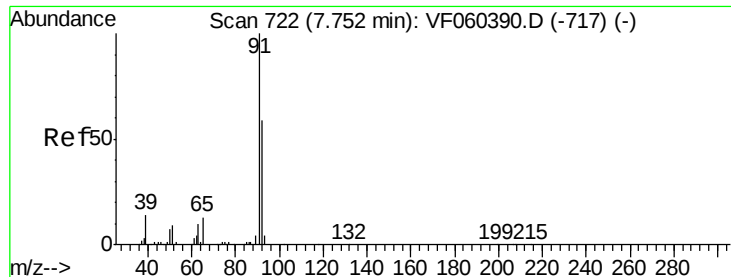


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#58

2-Chloroethyl Vinyl ether

Concen: 2111.835 ug/l

RT: 7.67 min Scan# 714

Delta R.T. -0.08 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampled :

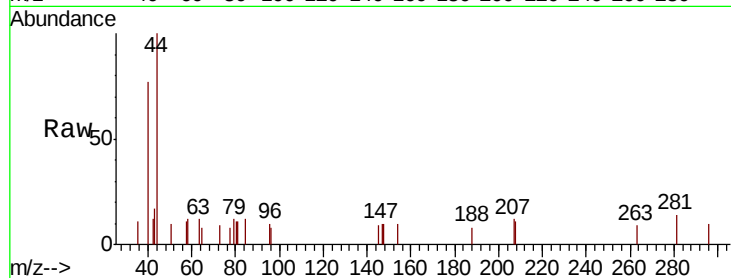
HC-SOIL-2

Tot Ion: 63 Resp: 93

Ion Ratio Lower Upper

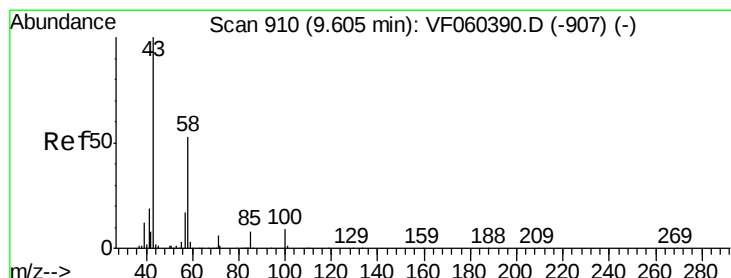
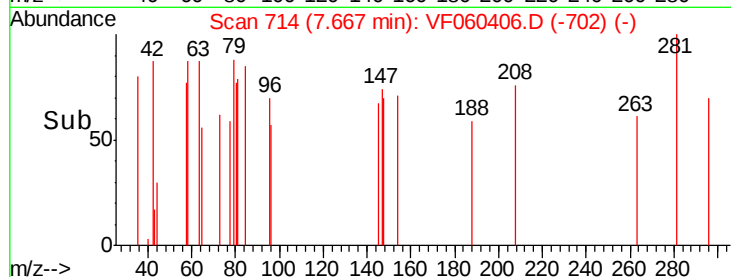
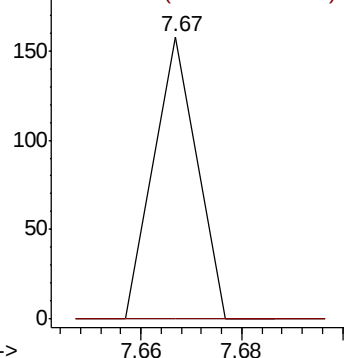
63 100

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



#59

2-Hexanone

Concen: 2387.021 ug/l

RT: 9.51 min Scan# 901

Delta R.T. -0.09 min

Lab File: VF060406.D

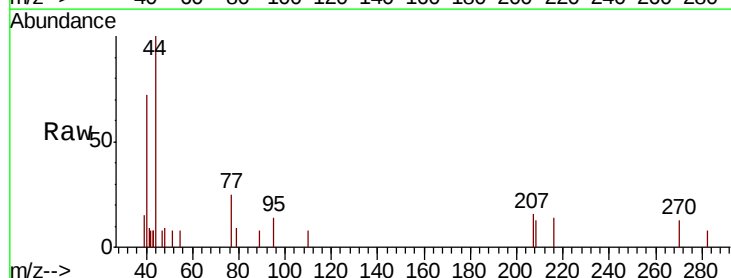
Acq: 2 Oct 2018 17:04

Tgt Ion: 43 Resp: 512

Ion Ratio Lower Upper

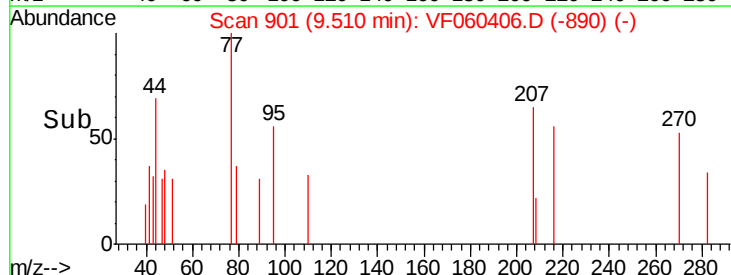
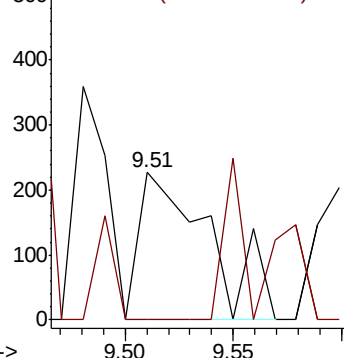
43 100

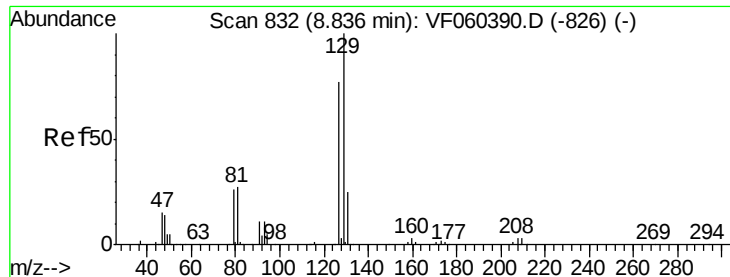
58 0.0 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#60

Dibromochloromethane

Concen: 110.284 ug/l

RT: 8.73 min Scan# 822

Delta R.T. -0.10 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

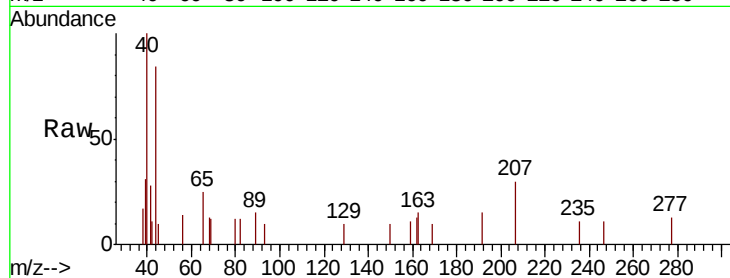
HC-SOIL-2

Tot Ion:129 Resp: 63

Ion Ratio Lower Upper

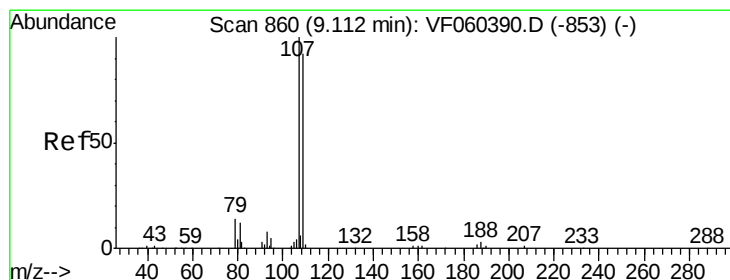
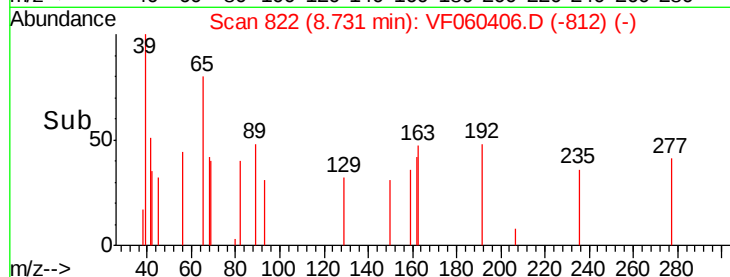
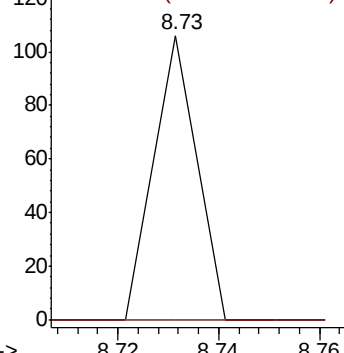
129 100

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



#61

1,2-Dibromoethane

Concen: 185.475 ug/l

RT: 9.08 min Scan# 857

Delta R.T. -0.04 min

Lab File: VF060406.D

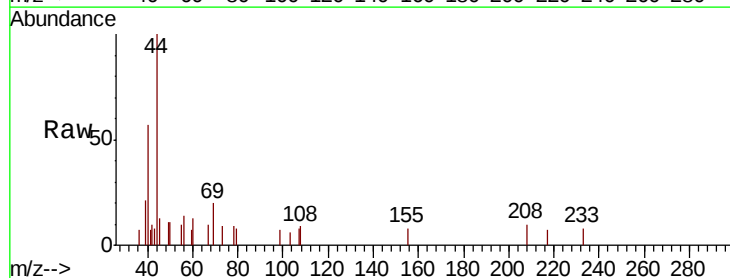
Acq: 2 Oct 2018 17:04

Tgt Ion:107 Resp: 77

Ion Ratio Lower Upper

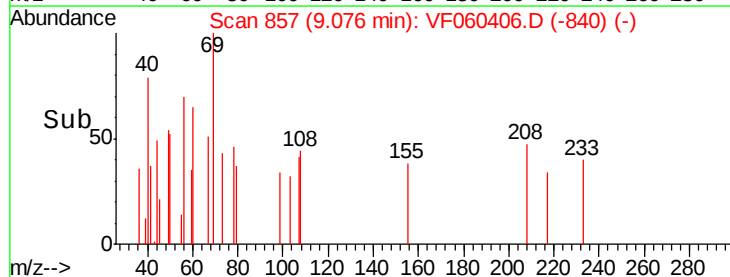
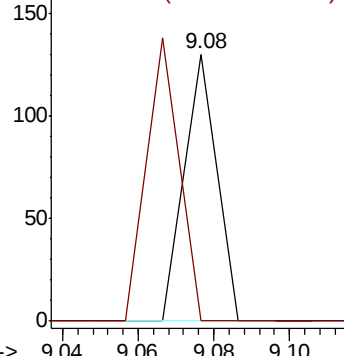
107 100

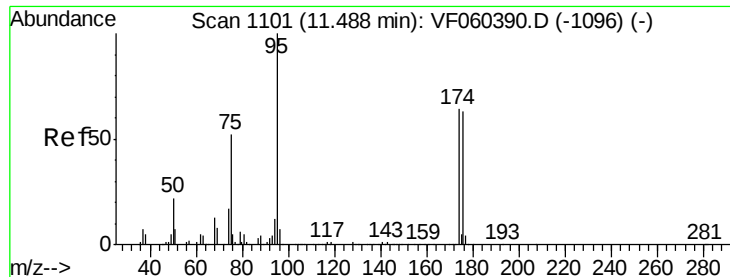
109 0.0 73.7 110.5#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#62

4-Bromofluorobenzene

Concen: 107.808 ug/l

RT: 11.35 min Scan# 1088

Delta R.T. -0.13 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-2

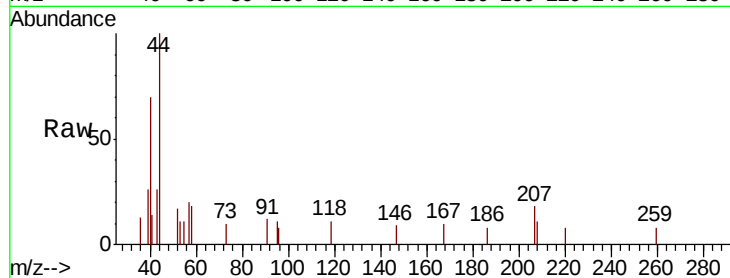
Tot Ion: 95 Resp: 82

Ion Ratio Lower Upper

95 100

174 0.0 0.0 129.0

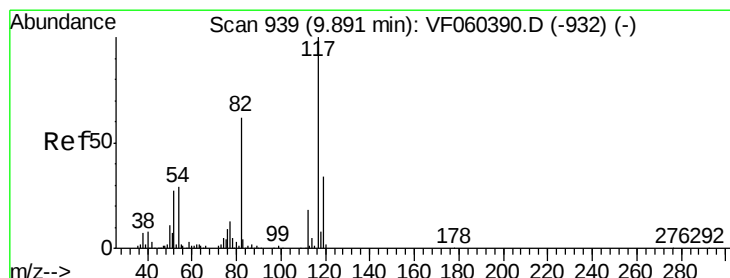
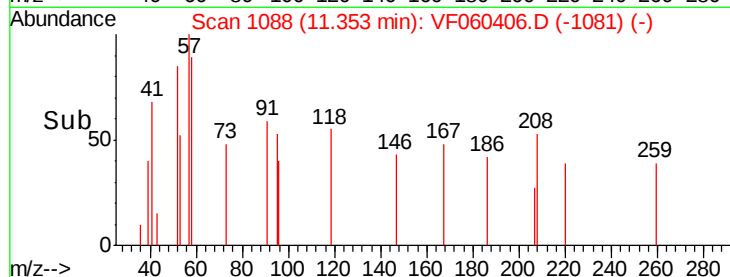
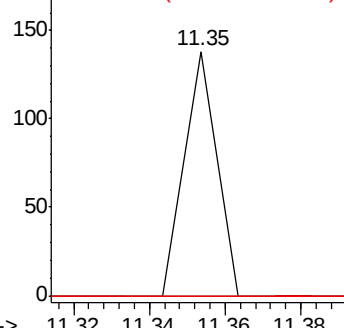
176 0.0 0.0 125.6



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: 9.89 min Scan# 940

Delta R.T. 0.00 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

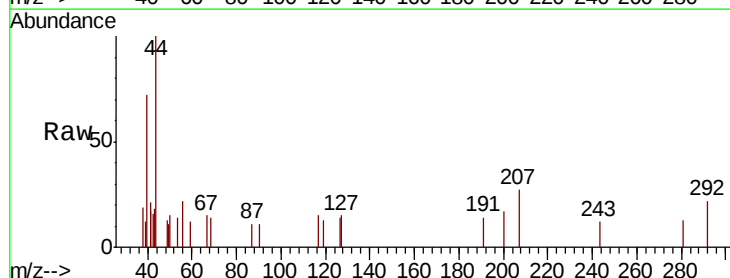
Tgt Ion: 117 Resp: 88

Ion Ratio Lower Upper

117 100

82 0.0 49.5 74.3#

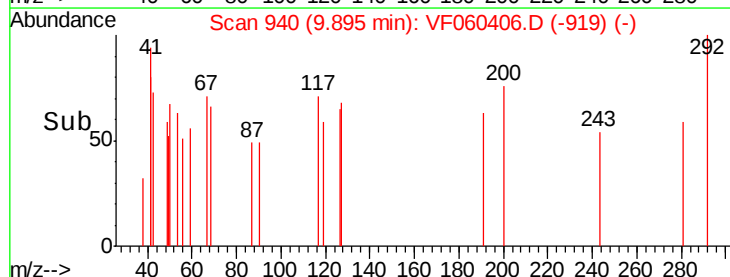
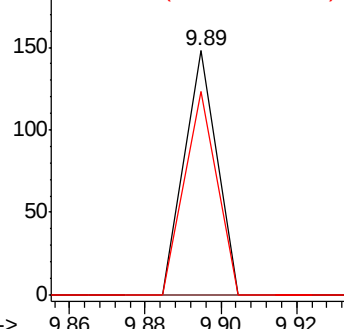
119 83.1 27.0 40.6#

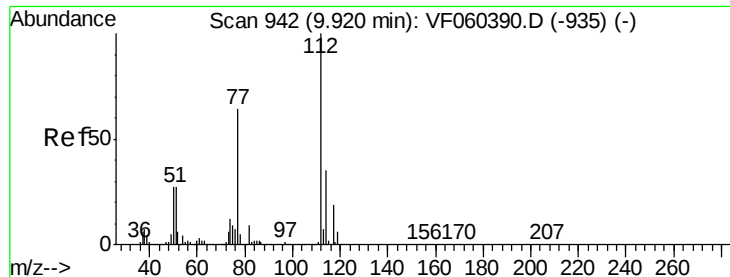


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

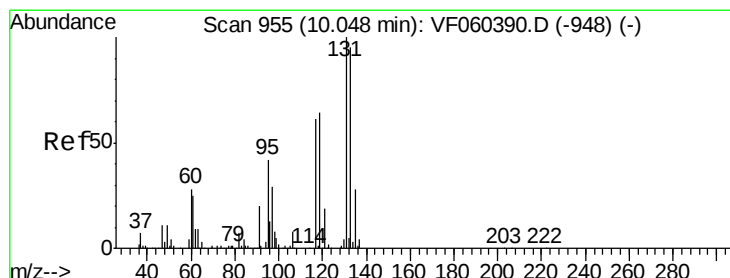
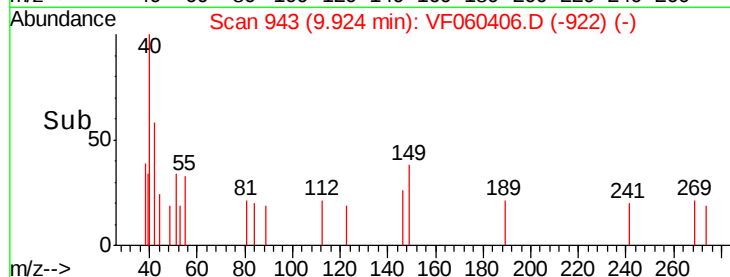
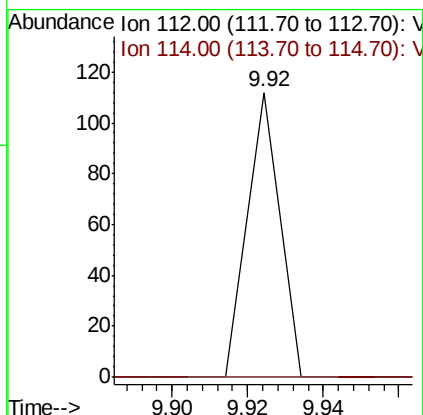
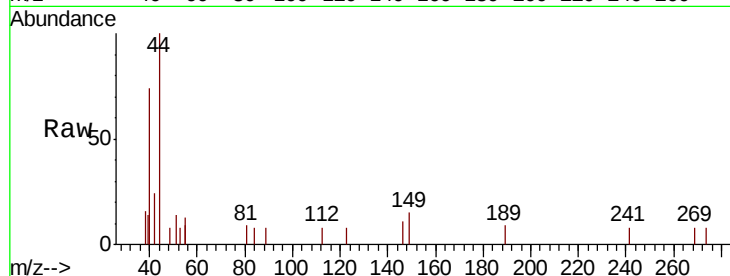




#65
Chlorobenzene
Concen: 36.511 ug/l
RT: 9.92 min Scan# 943
Delta R.T. 0.00 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

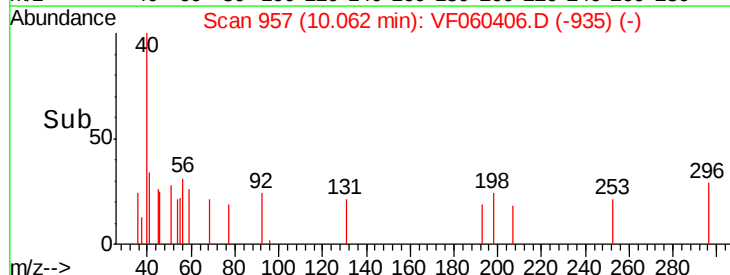
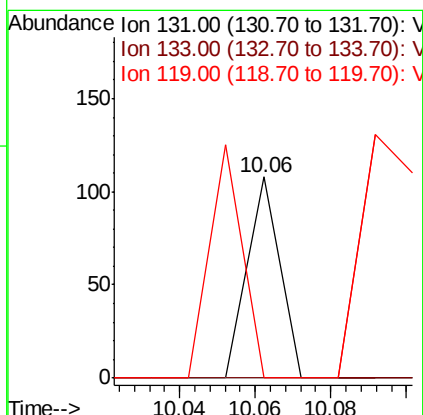
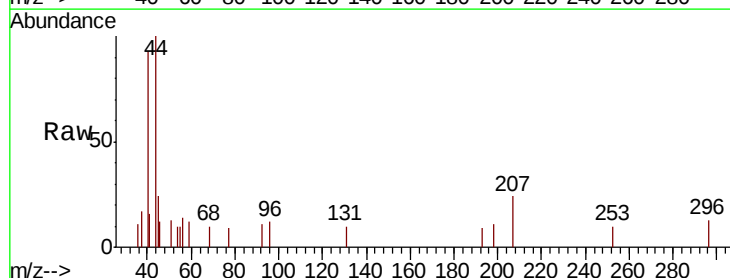
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-2

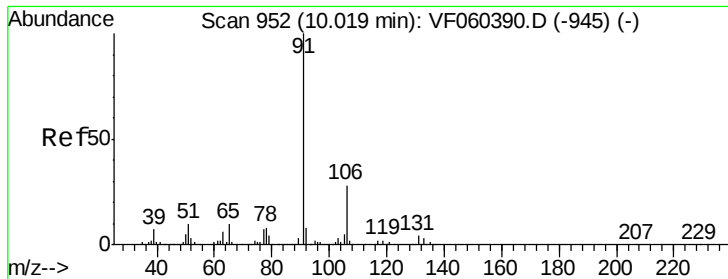
Tot Ion:112 Resp: 66
Ion Ratio Lower Upper
112 100
114 0.0 27.7 41.5#



#66
1,1,1,2-Tetrachloroethane
Concen: 81.085 ug/l
RT: 10.06 min Scan# 957
Delta R.T. 0.01 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

Tgt Ion:131 Resp: 64
Ion Ratio Lower Upper
131 100
133 0.0 47.3 141.8#
119 0.0 32.3 96.9#





#67

Ethyl Benzene

Concen: 44.223 ug/l

RT: 9.96 min Scan# 947

Delta R.T. -0.06 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleID :

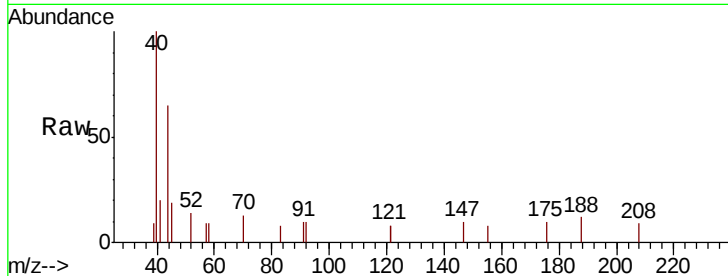
HC-SOIL-2

Tot Ion: 91 Resp: 152

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

9.96

150

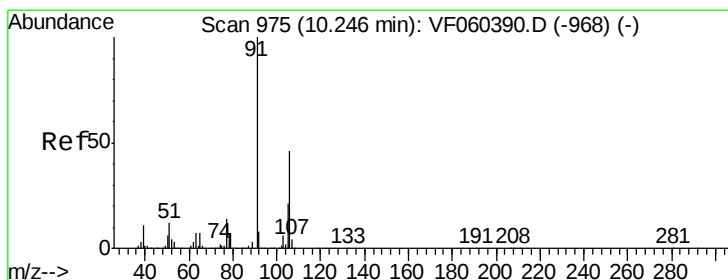
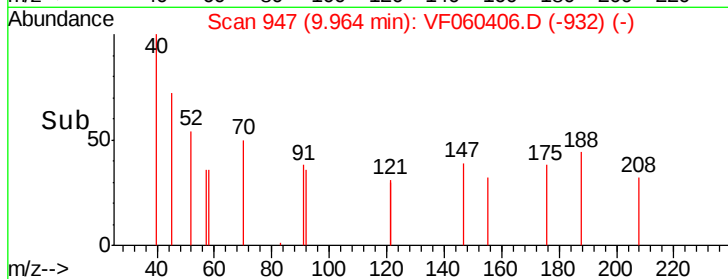
100

50

0

9.95 9.96 10.00

Time-->



#68

m/p-Xylenes

Concen: 55.858 ug/l

RT: 10.29 min Scan# 980

Delta R.T. 0.04 min

Lab File: VF060406.D

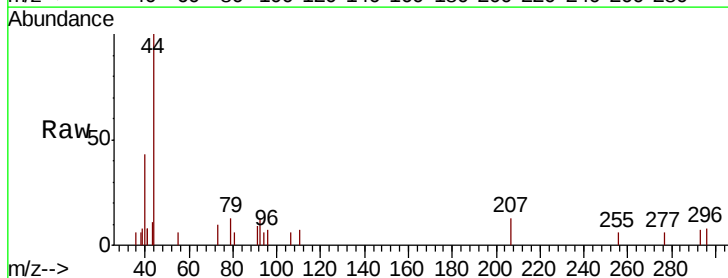
Acq: 2 Oct 2018 17:04

Tgt Ion:106 Resp: 66

Ion Ratio Lower Upper

106 100

91 152.3 175.0 262.6#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

200

150

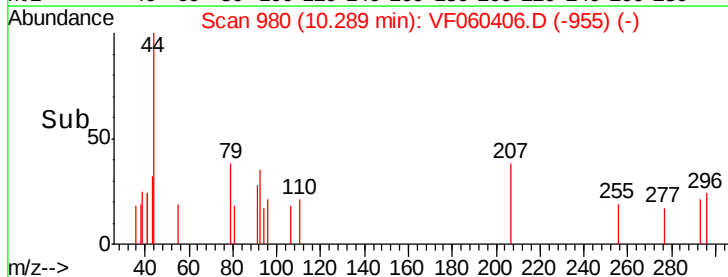
100

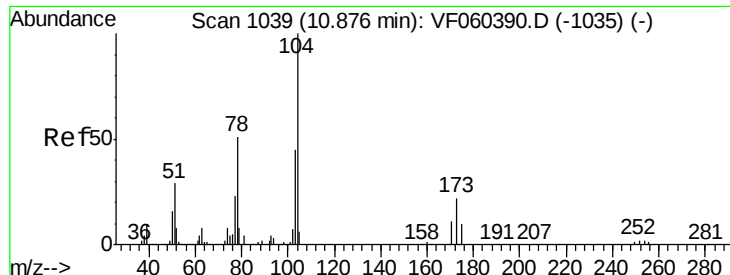
50

0

10.26 10.28 10.29 10.30 10.32

Time-->





#70

Stvrene

Concen: 33.844 ug/l

RT: 10.99 min Scan# 1051

Delta R.T. 0.11 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-2

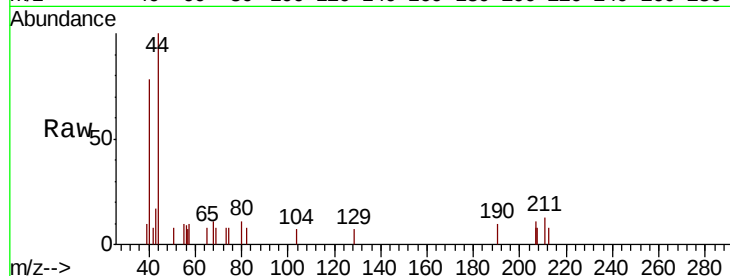
Tot Ion:104 Resp: 62

Ion Ratio Lower Upper

104 100

78 0.0 41.0 61.4#

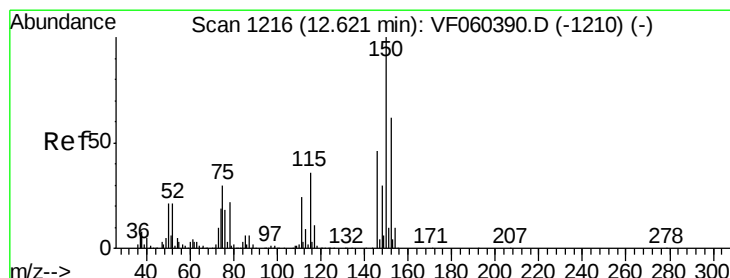
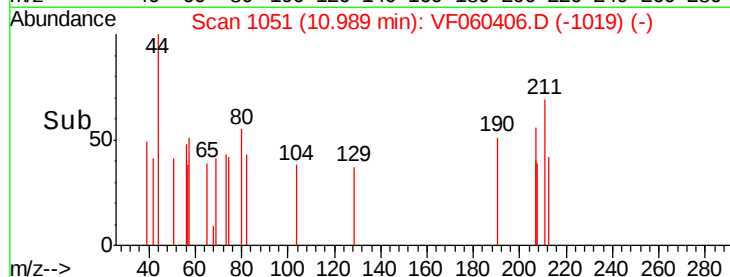
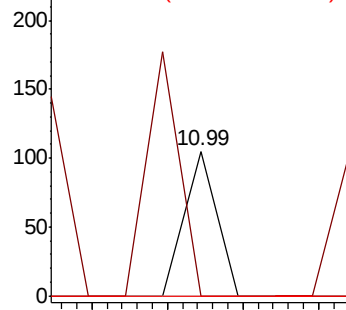
103 0.0 36.4 54.6#



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: 12.52 min Scan# 1206

Delta R.T. -0.10 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

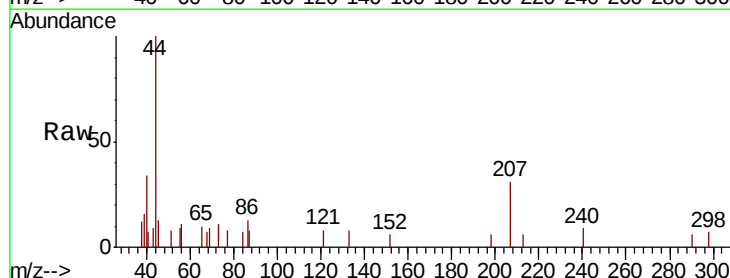
Tgt Ion:152 Resp: 64

Ion Ratio Lower Upper

152 100

115 0.0 28.6 85.8#

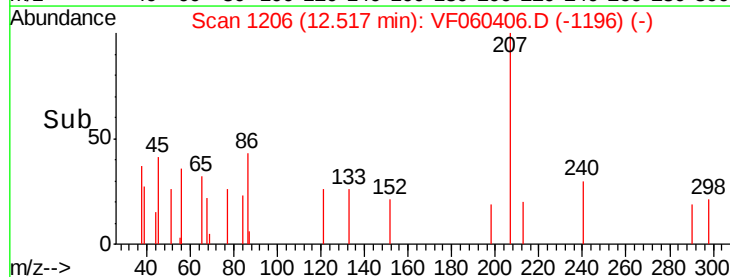
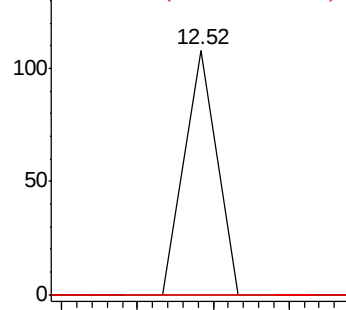
150 0.0 0.0 324.6

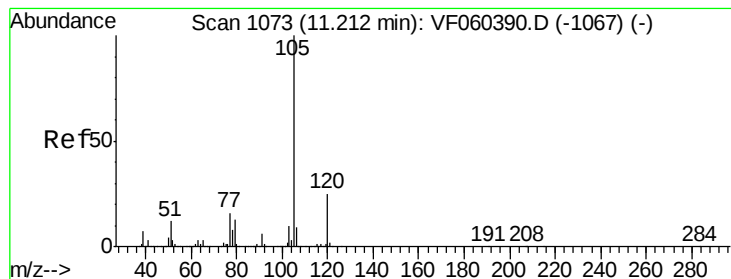


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 17.265 ug/l

RT: 11.14 min Scan# 1066

Delta R.T. -0.07 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

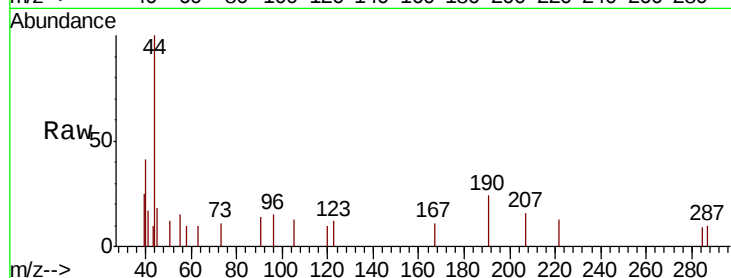
HC-SOIL-2

Tot Ion: 105 Resp: 87

Ion Ratio Lower Upper

105 100

120 0.0 12.3 36.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.14

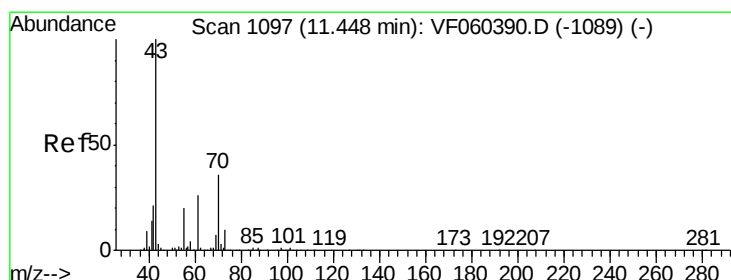
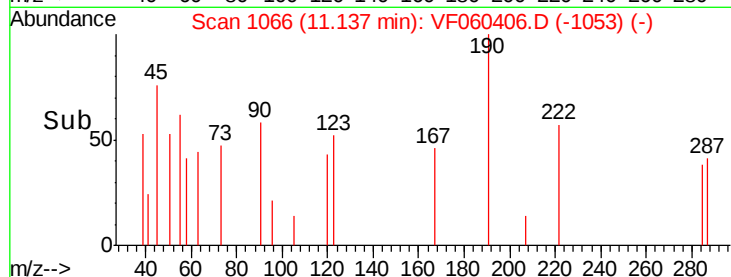
150

100

50

0

Time--> 11.10 11.12 11.14 11.16



#74

N-ethyl acetate

Concen: 445.300 ug/l

RT: 11.44 min Scan# 1097

Delta R.T. -0.01 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Tgt Ion: 43 Resp: 515

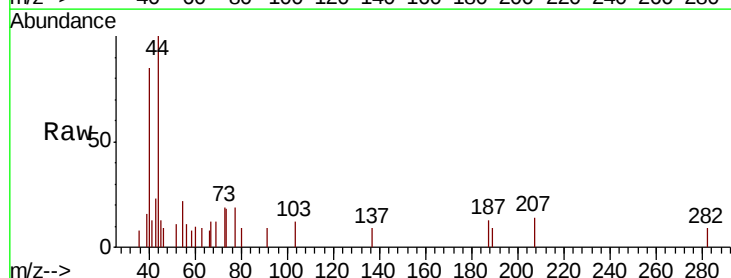
Ion Ratio Lower Upper

43 100

70 0.0 29.1 43.7#

55 95.5 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

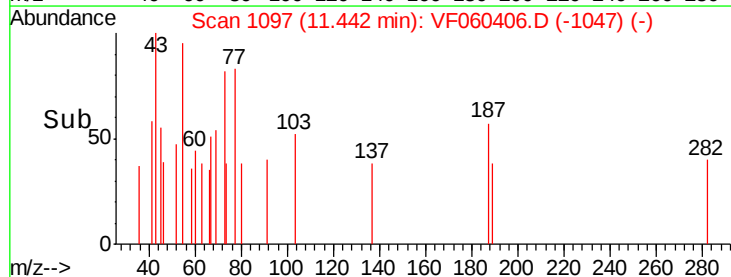
300

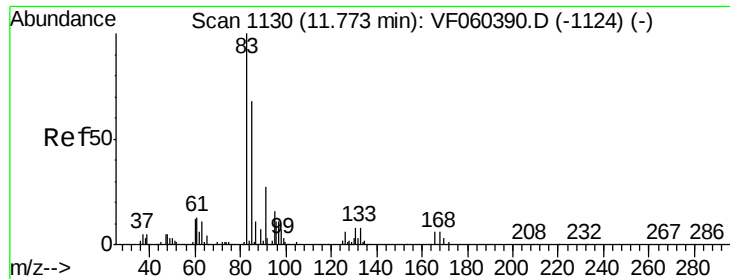
200

100

0

Time--> 11.42 11.44 11.46 11.48





#75

1,1,2,2-Tetrachloroethane

Concen: 65.308 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. 0.02 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

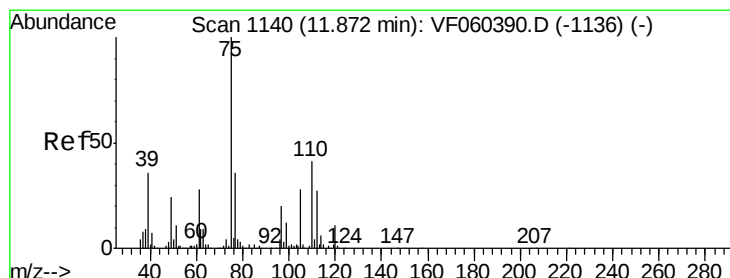
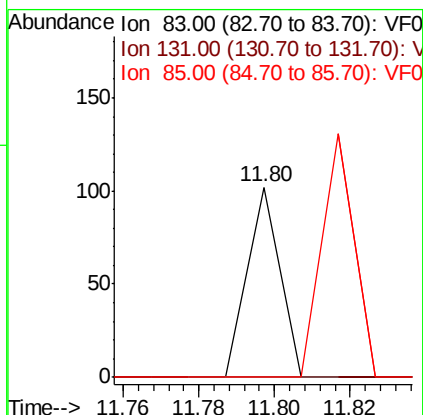
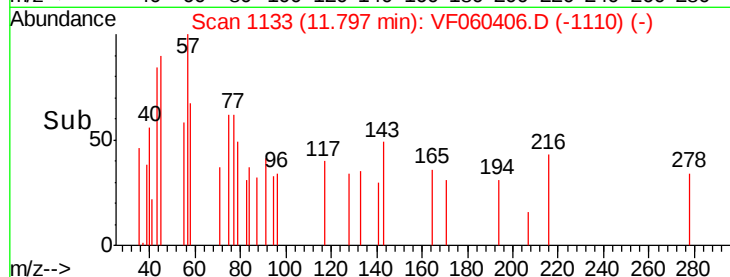
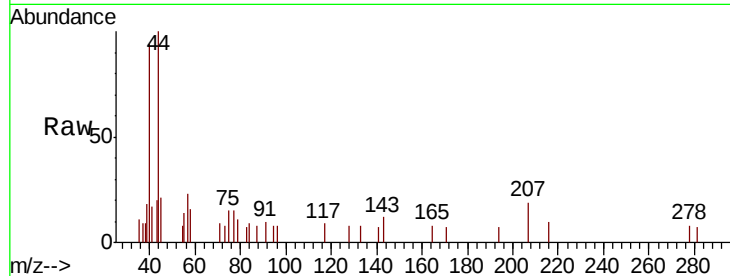
Tot Ion: 83 Resp: 60

Ion Ratio Lower Upper

83 100

131 0.0 4.0 12.0#

85 0.0 34.0 102.0#



#76

1,2,3-Trichloropropane

Concen: 181.856 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. -0.07 min

Lab File: VF060406.D

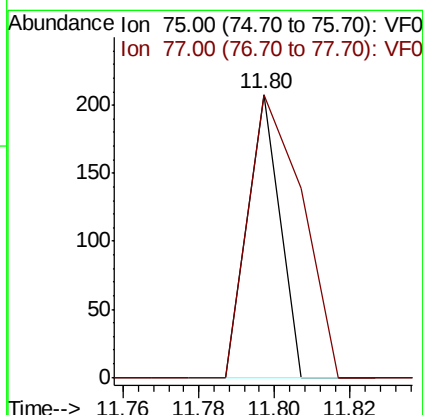
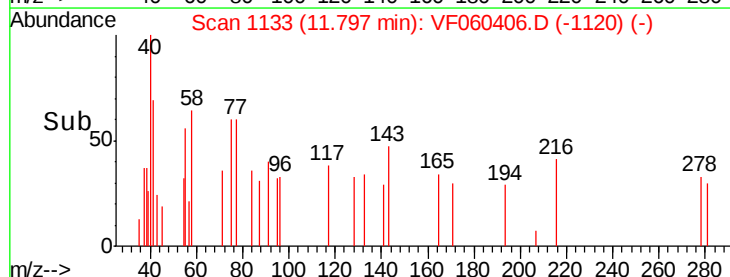
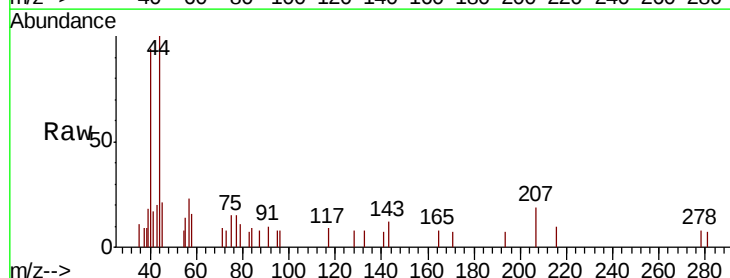
Acq: 2 Oct 2018 17:04

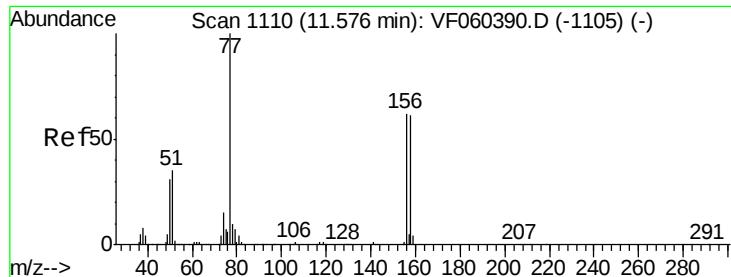
Tgt Ion: 75 Resp: 123

Ion Ratio Lower Upper

75 100

77 100.0 18.1 54.4#





#77

Bromobenzene

Concen: 86.112 ug/l

RT: 11.55 min Scan# 1108

Delta R.T. -0.03 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

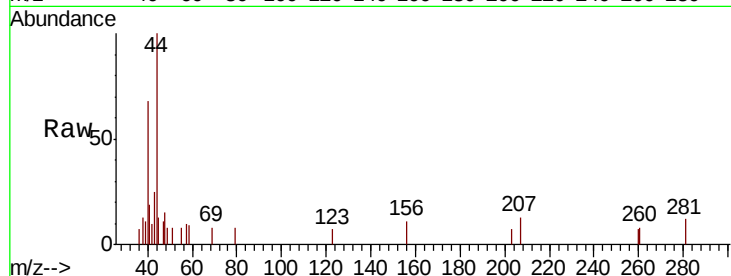
Tot Ion:156 Resp: 97

Ion Ratio Lower Upper

156 100

77 0.0 81.3 243.9#

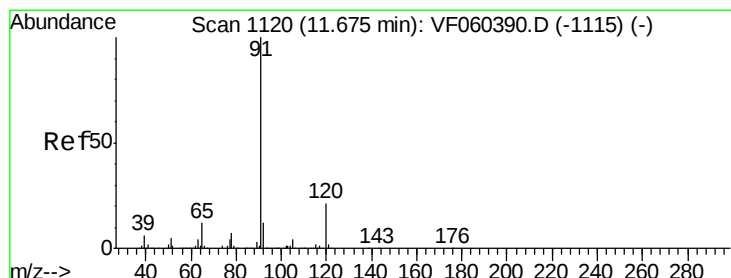
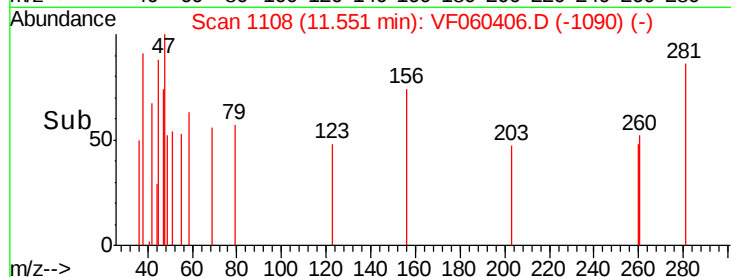
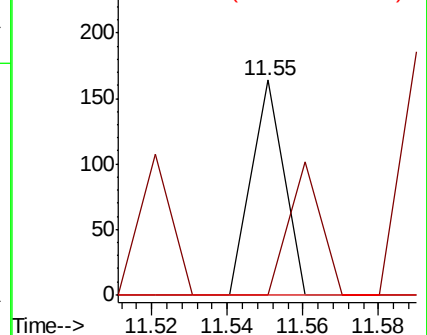
158 0.0 49.6 149.0#



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: 50.090 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. 0.11 min

Lab File: VF060406.D

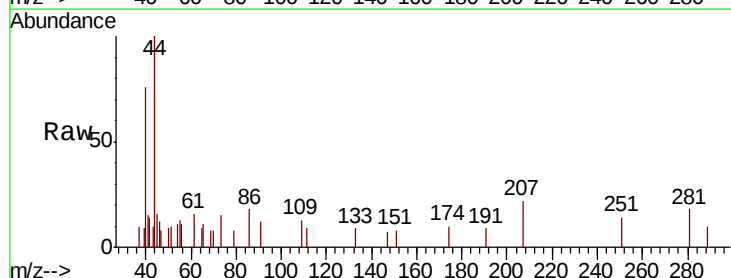
Acq: 2 Oct 2018 17:04

Tgt Ion: 91 Resp: 306

Ion Ratio Lower Upper

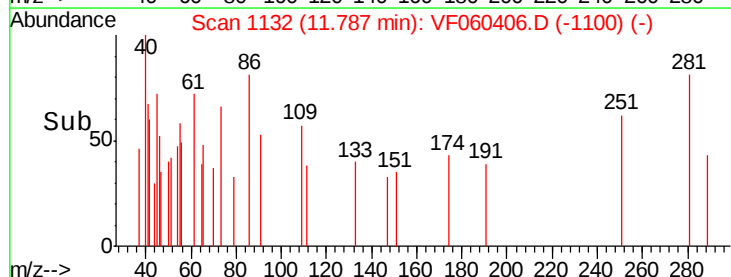
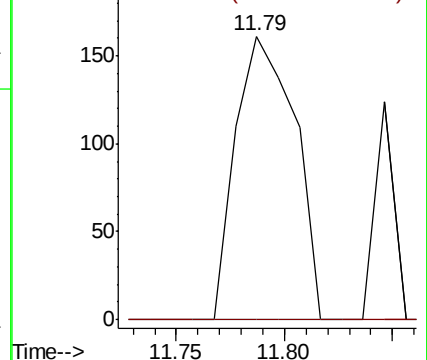
91 100

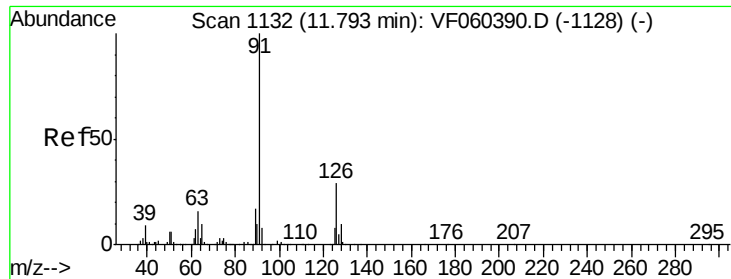
120 0.0 10.5 31.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 85.630 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. -0.01 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampled :

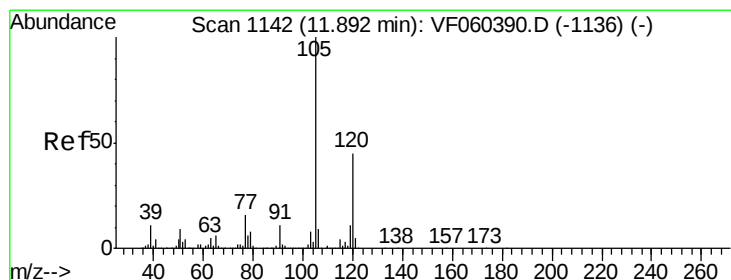
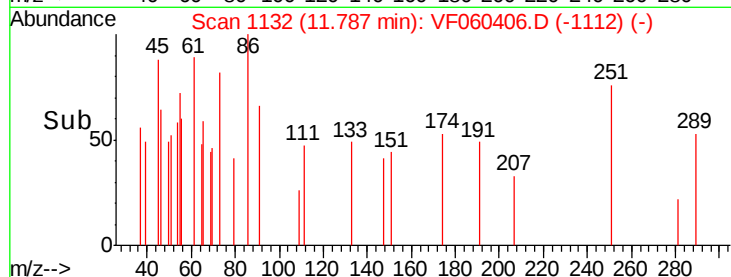
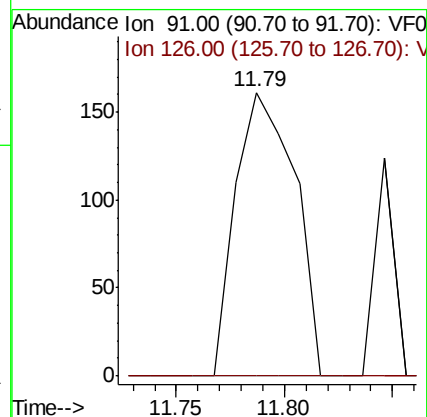
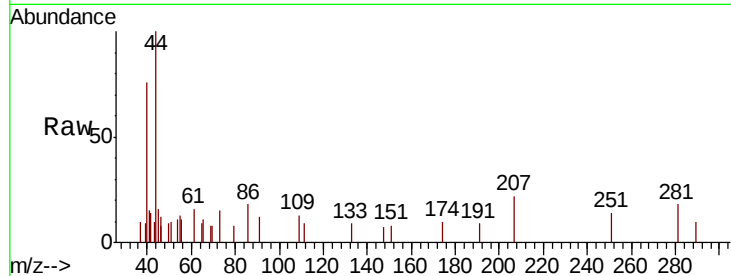
HC-SOIL-2

Tot Ion: 91 Resp: 306

Ion Ratio Lower Upper

91 100

126 0.0 14.4 43.4#



#80

1,3,5-Trimethylbenzene

Concen: 14.248 ug/l

RT: 11.92 min Scan# 1145

Delta R.T. 0.02 min

Lab File: VF060406.D

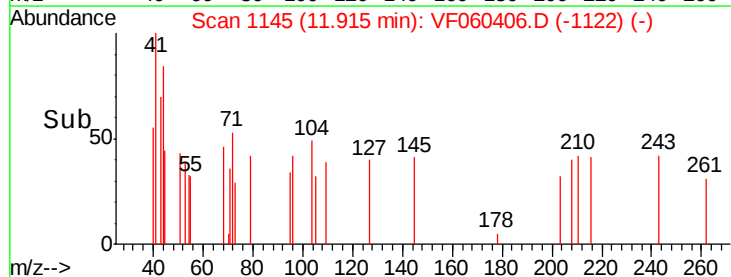
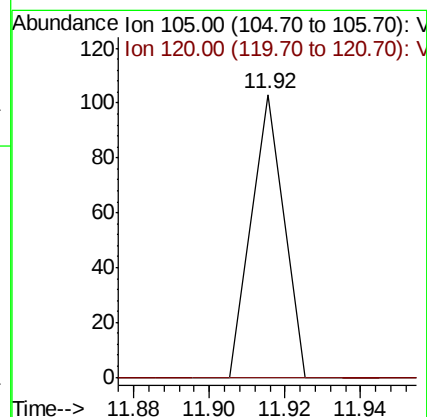
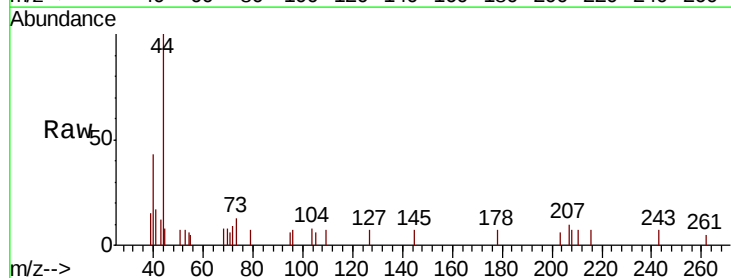
Acq: 2 Oct 2018 17:04

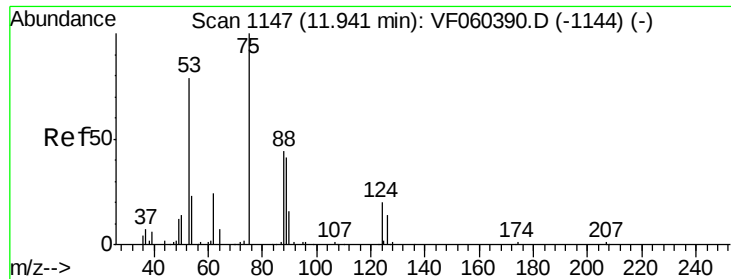
Tgt Ion: 105 Resp: 61

Ion Ratio Lower Upper

105 100

120 0.0 22.3 66.9#





#81

trans-1,4-Dichloro-2-butene

Concen: 233.476 ug/l

RT: 12.03 min Scan# 1157

Delta R.T. 0.09 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-2

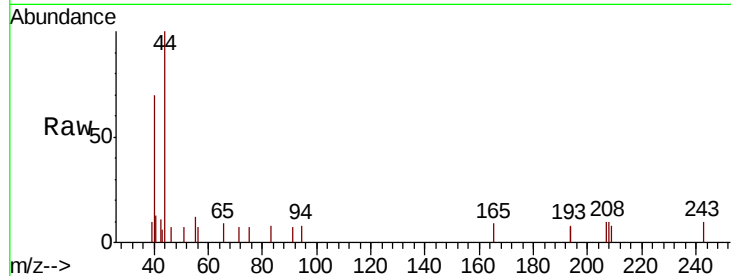
Tot Ion: 75 Resp: 70

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

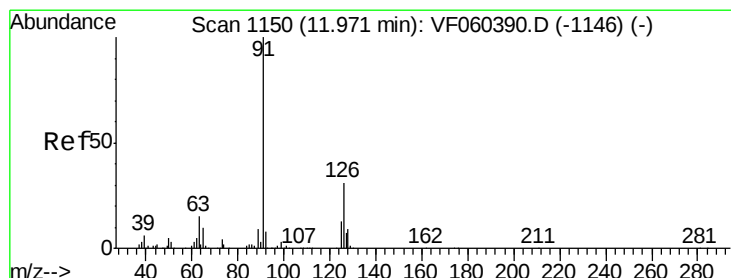
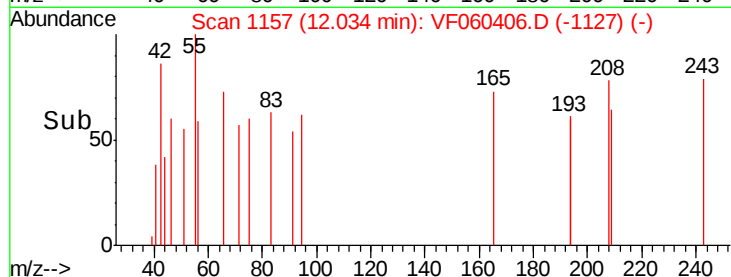
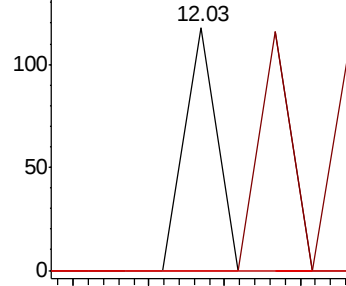
89 0.0 36.7 55.1#



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



#82

4-Chlorotoluene

Concen: 21.059 ug/l

RT: 11.99 min Scan# 1153

Delta R.T. 0.02 min

Lab File: VF060406.D

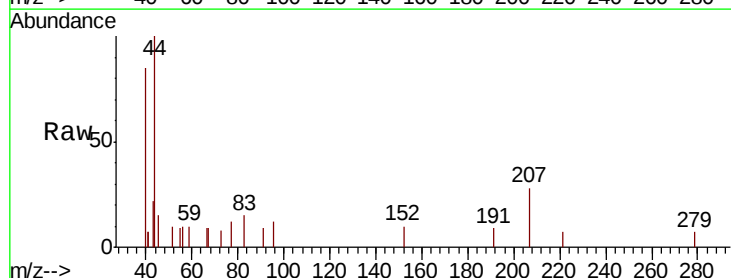
Acq: 2 Oct 2018 17:04

Tgt Ion: 91 Resp: 77

Ion Ratio Lower Upper

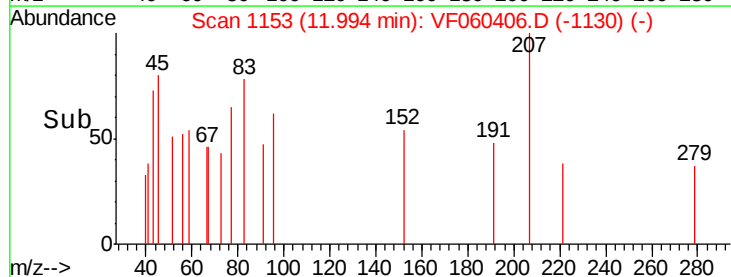
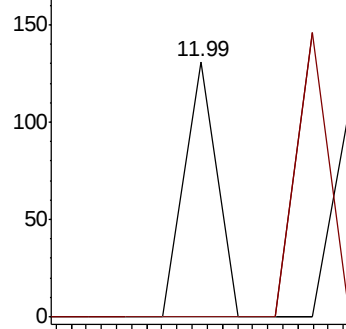
91 100

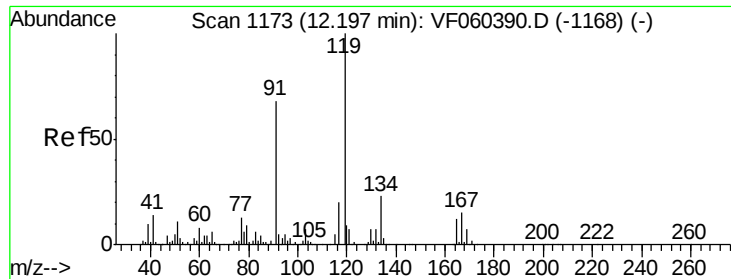
126 0.0 15.7 47.0#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#83

tert-Butylbenzene

Concen: 14.209 ug/l

RT: 12.30 min Scan# 1184

Delta R.T. 0.10 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-2

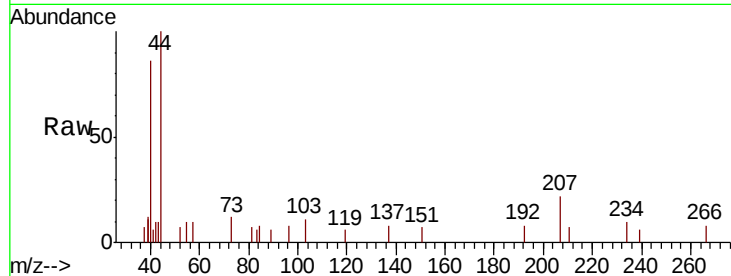
Tot Ion:119 Resp: 60

Ion Ratio Lower Upper

119 100

91 0.0 34.0 102.0#

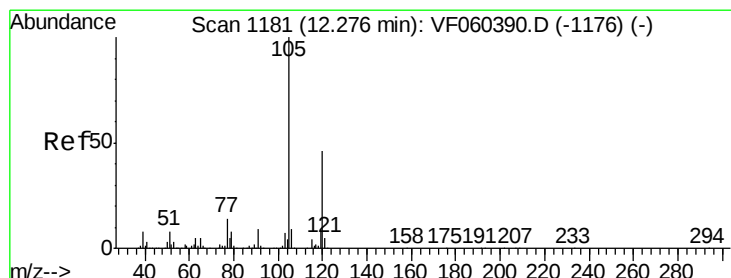
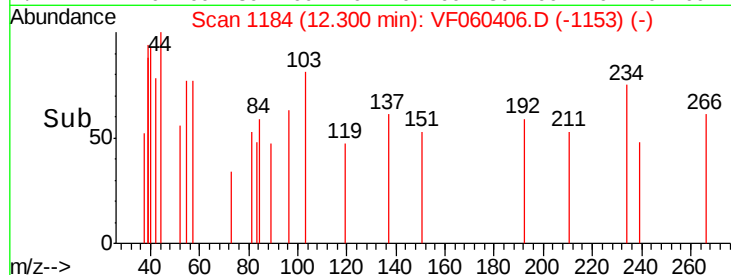
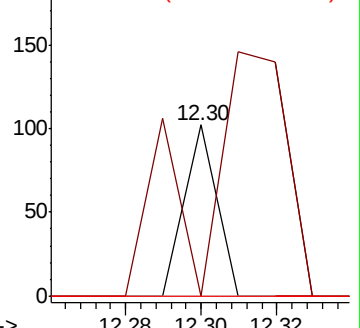
134 0.0 11.7 35.0#



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



#84

1,2,4-Trimethylbenzene

Concen: 13.896 ug/l

RT: 12.27 min Scan# 1181

Delta R.T. -0.01 min

Lab File: VF060406.D

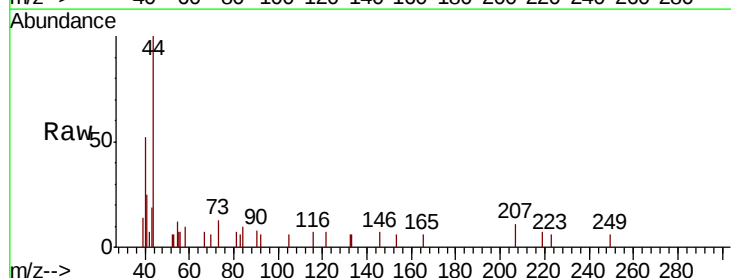
Acq: 2 Oct 2018 17:04

Tgt Ion:105 Resp: 59

Ion Ratio Lower Upper

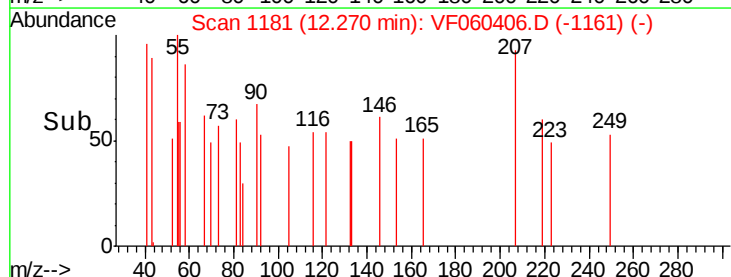
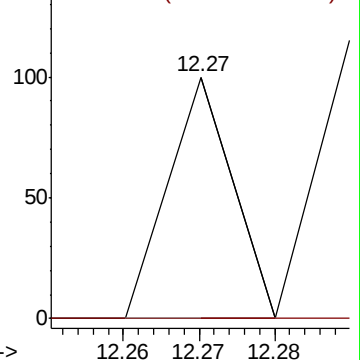
105 100

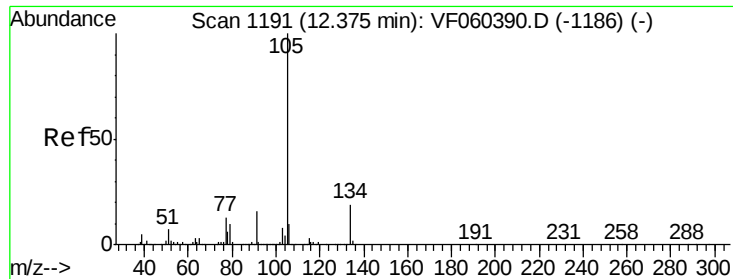
120 0.0 23.1 69.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

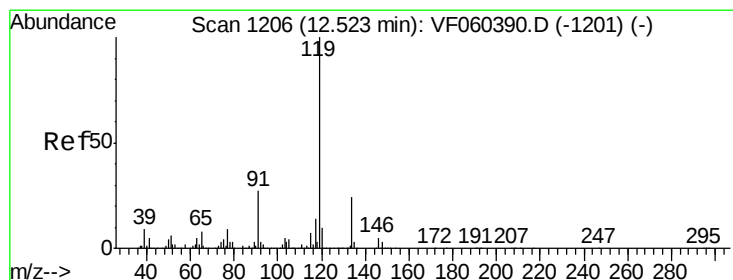
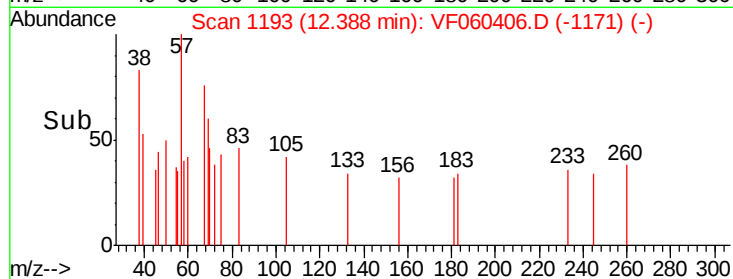
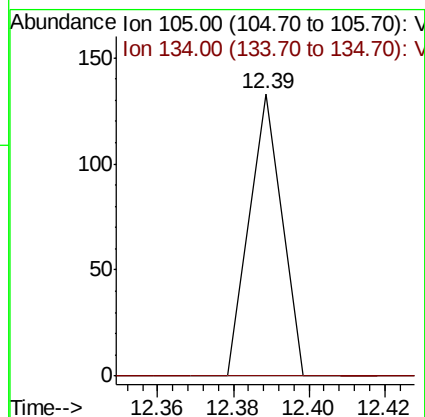
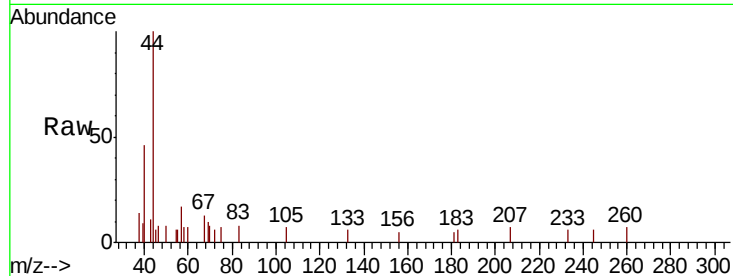




#85
 sec-Butylbenzene
 Concen: 13.553 ug/l
 RT: 12.39 min Scan# 1193
 Delta R.T. 0.01 min
 Lab File: VF060406.D
 Acq: 2 Oct 2018 17:04

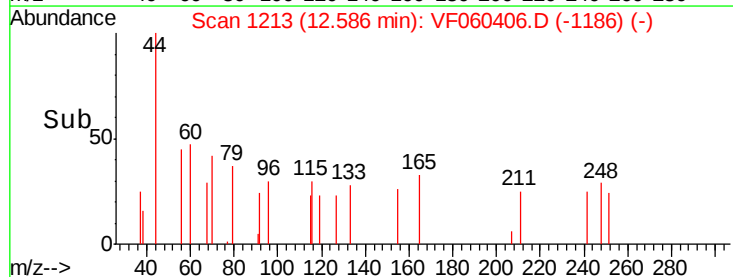
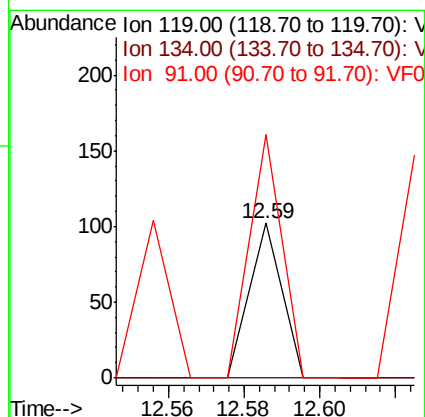
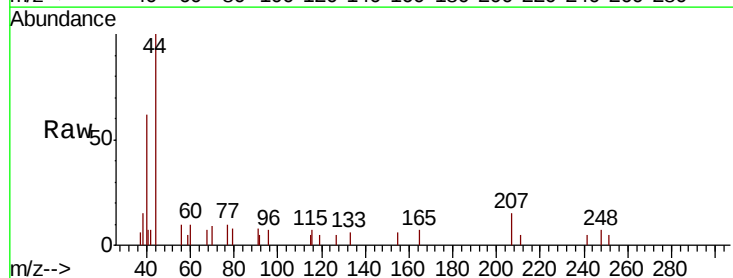
Instrument :
 MSVOA_F
 ClientSampled :
 HC-SOIL-2

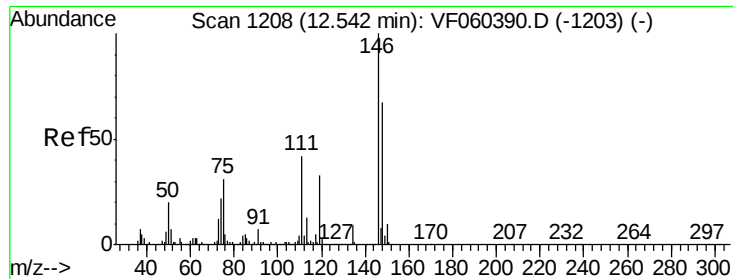
Tot Ion:105 Resp: 79
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.4 28.3#



#86
 p-Isopropyltoluene
 Concen: 12.600 ug/l
 RT: 12.59 min Scan# 1213
 Delta R.T. 0.06 min
 Lab File: VF060406.D
 Acq: 2 Oct 2018 17:04

Tgt Ion:119 Resp: 60
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.3 36.8#
 91 157.8 13.5 40.4#

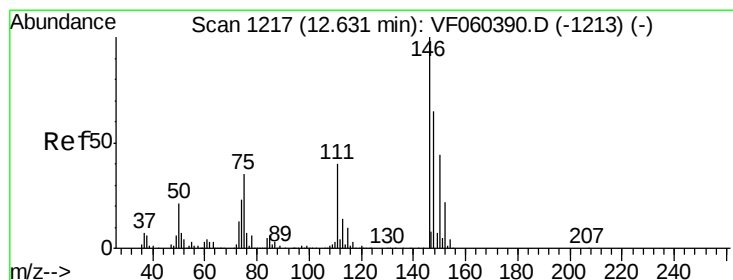
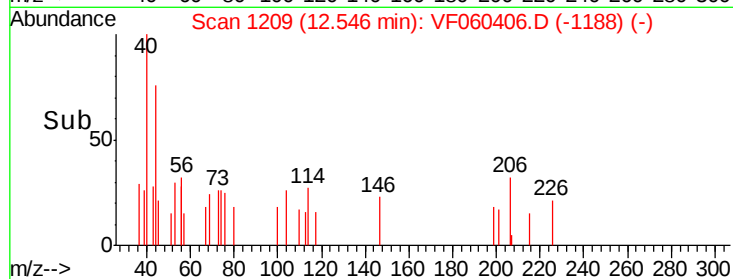
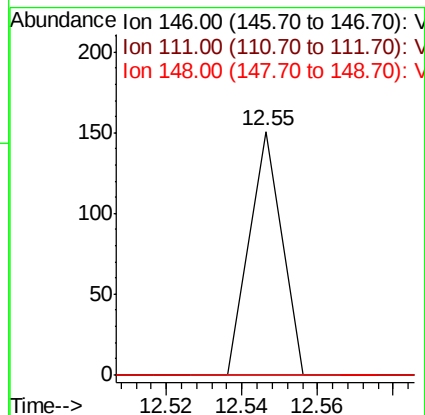
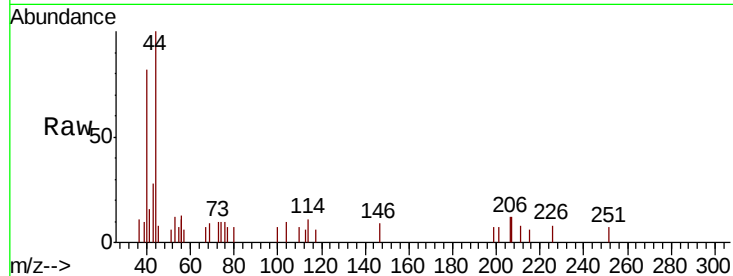




#87
 1,3-Dichlorobenzene
 Concen: 41.987 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. 0.00 min
 Lab File: VF060406.D
 Acq: 2 Oct 2018 17:04

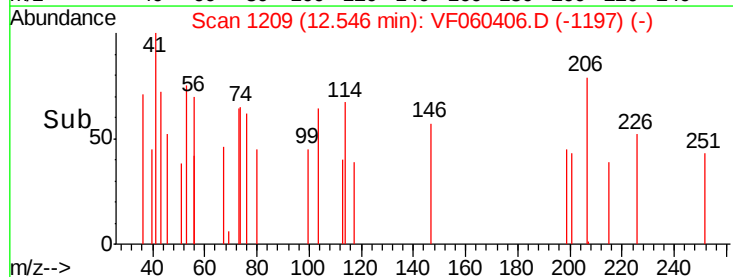
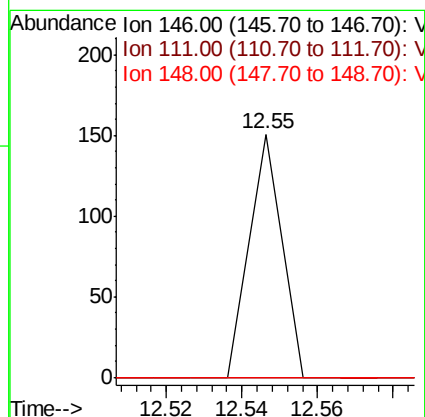
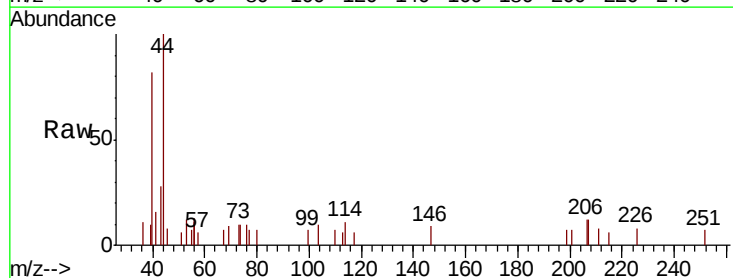
Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-2

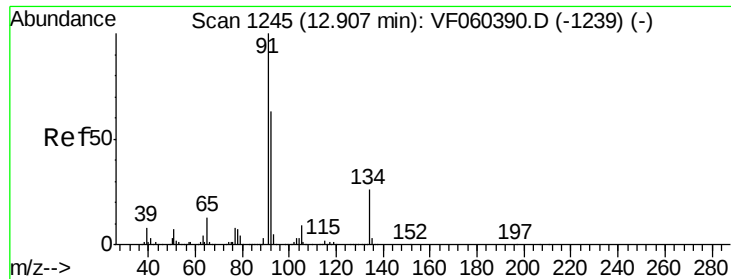
Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.9	62.7#
148	0.0	33.6	100.8#



#88
 1,4-Dichlorobenzene
 Concen: 42.581 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.08 min
 Lab File: VF060406.D
 Acq: 2 Oct 2018 17:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.2	60.6#
148	0.0	32.6	97.8#





#89

n-Butylbenzene

Concen: 74.618 ug/l

RT: 12.93 min Scan# 1248

Delta R.T. 0.02 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-2

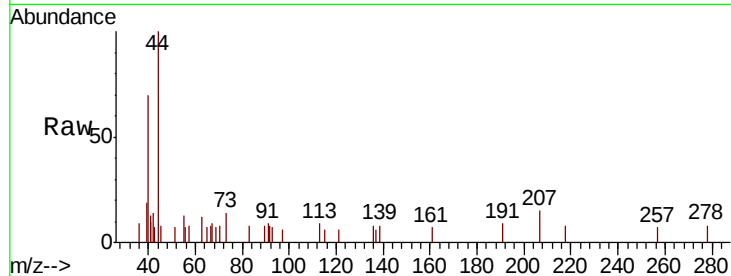
Tot Ion: 91 Resp: 376

Ion Ratio Lower Upper

91 100

92 0.0 31.3 93.9#

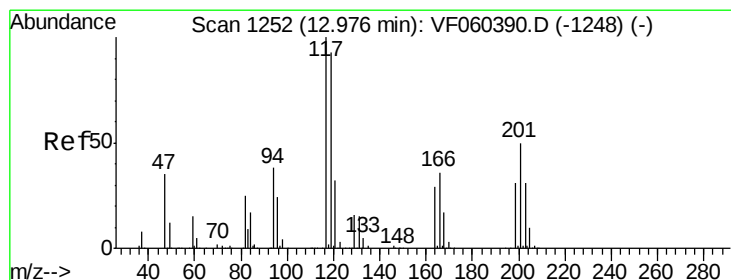
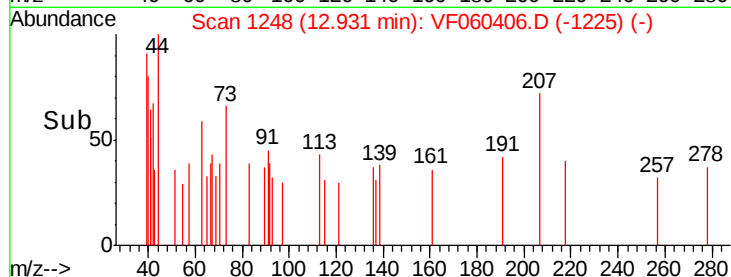
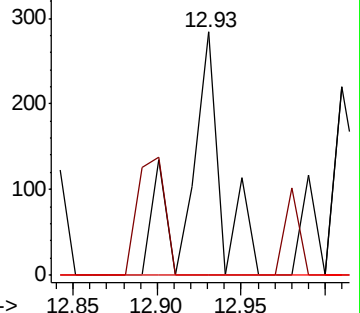
134 0.0 13.0 38.9#



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: 100.750 ug/l

RT: 13.05 min Scan# 1260

Delta R.T. 0.07 min

Lab File: VF060406.D

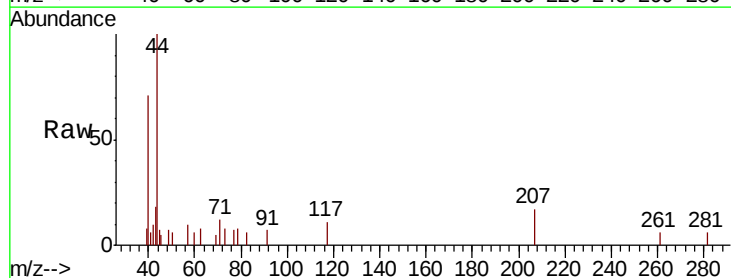
Acq: 2 Oct 2018 17:04

Tgt Ion: 117 Resp: 124

Ion Ratio Lower Upper

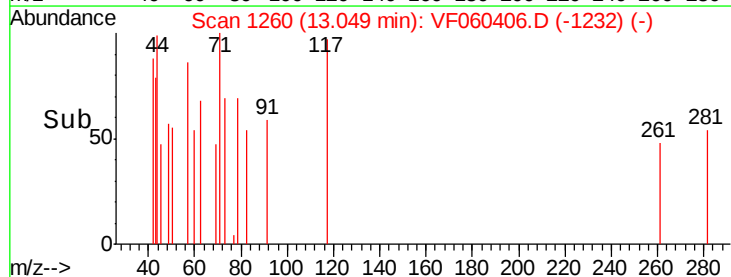
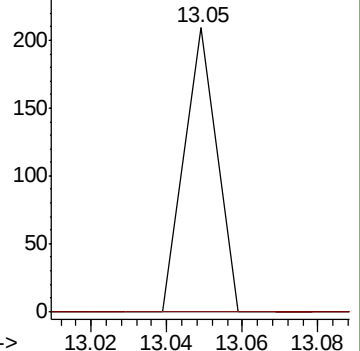
117 100

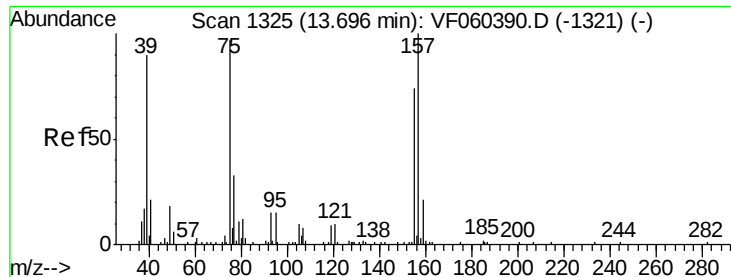
201 0.0 25.5 76.5#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 729.907 ug/l

RT: 13.74 min Scan# 1330

Delta R.T. 0.04 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-2

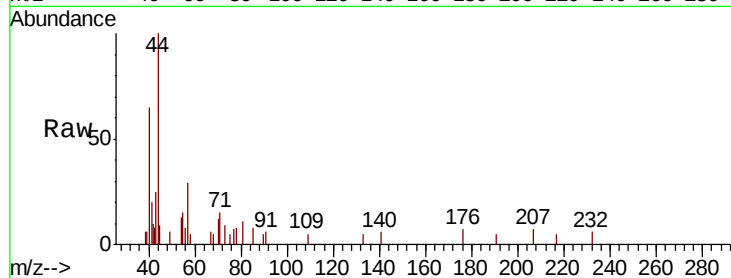
Tot Ion: 75 Resp: 130

Ion Ratio Lower Upper

75 100

155 0.0 37.9 113.6#

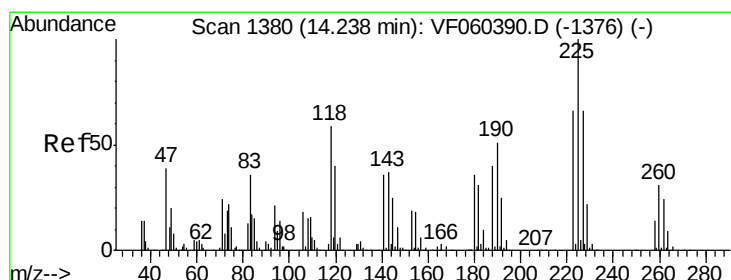
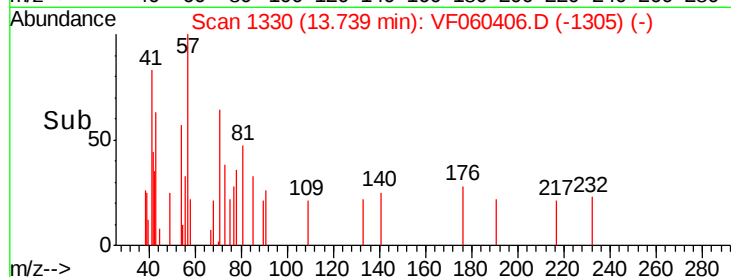
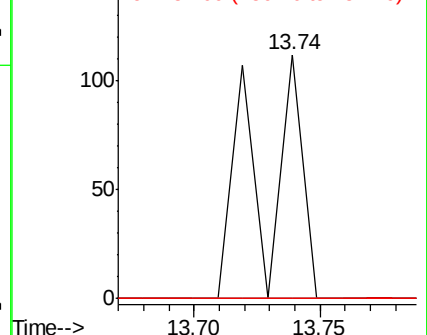
157 0.0 51.3 154.0#



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



#94

Hexachlorobutadiene

Concen: 63.239 ug/l

RT: 14.19 min Scan# 1376

Delta R.T. -0.05 min

Lab File: VF060406.D

Acq: 2 Oct 2018 17:04

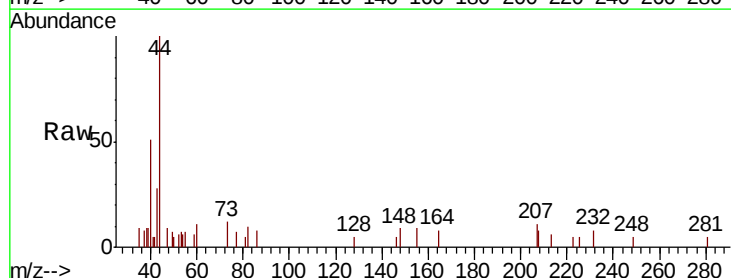
Tgt Ion: 225 Resp: 67

Ion Ratio Lower Upper

225 100

223 0.0 32.8 98.4#

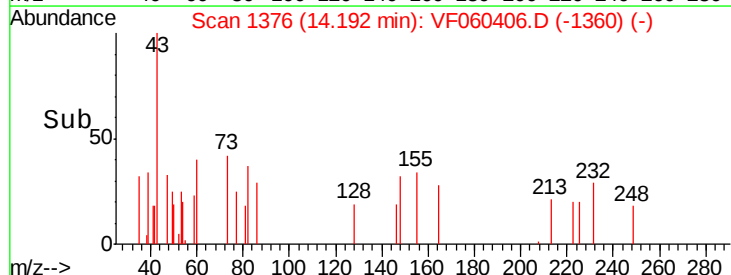
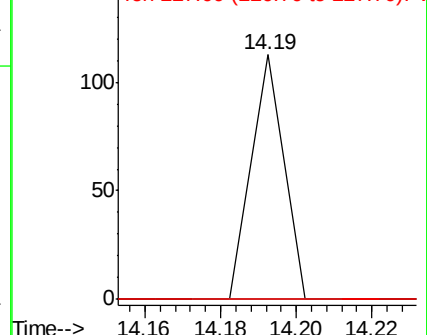
227 0.0 33.0 99.0#

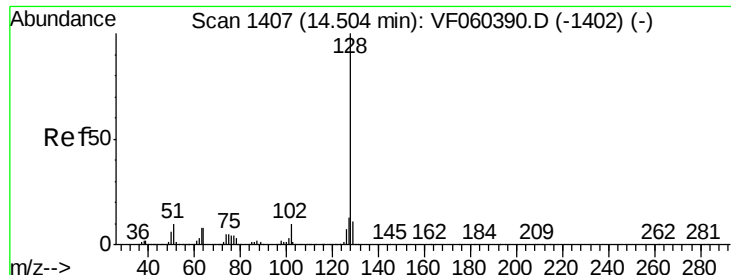


Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





#95
Naphthalene
Concen: 44.950 ug/l
RT: 14.50 min Scan# 1407
Delta R.T. -0.01 min
Lab File: VF060406.D
Acq: 2 Oct 2018 17:04

Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-2

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.0	15.0
129	0.0	8.7	13.1

