

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF100218\
 Data File : VF060405.D
 Acq On : 2 Oct 2018 16:36
 Operator : VA/AP
 Sample : J5170-01RE
 Misc : 7.81/5mL/MSVOA F/SOIL
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-1RE

Quant Time: Oct 03 02:33:20 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	4.84	168	70	50.00	ug/l	-0.17
34) 1,4-Difluorobenzene	5.27	114	98	50.00	ug/l	-0.47
63) Chlorobenzene-d5	9.22	117	72	50.00	ug/l	-0.68
72) 1,4-Dichlorobenzene-d4	12.56	152	208	50.00	ug/l	-0.06

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.77	65	88	80.34	ug/l	-0.22
Spiked Amount	50.000		Recovery	=	160.68%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount	50.000		Recovery	=	0.00%	
50) Toluene-d8	7.11	98	98	43.22	ug/l	-0.58
Spiked Amount	50.000		Recovery	=	86.44%	
62) 4-Bromofluorobenzene	10.57	95	302	291.71	ug/l	-0.92
Spiked Amount	50.000		Recovery	=	583.42%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.99	85	80	53.583	ug/l #	43
3) Chloromethane	1.04	50	186	195.679	ug/l	99
4) Vinyl Chloride	1.14	62	116	117.313	ug/l #	42
5) Bromomethane	1.26	94	202	263.739	ug/l #	54
6) Chloroethane	1.40	64	85	172.259	ug/l #	1
7) Trichlorofluoromethane	1.52	101	60	26.153	ug/l #	18
8) Diethyl Ether	1.61	74	88	279.895	ug/l	71
9) 1,1,2-Trichlorotrifluoroet	1.80	101	60	54.600	ug/l #	22
10) Methyl Iodide	1.79	142	62	36.997	ug/l #	21
11) Tert butyl alcohol	2.54	59	170	2565.884	ug/l #	77
12) 1,1-Dichloroethene	1.80	96	108	127.195	ug/l #	1
13) Acrolein	1.99	56	363	6812.806	ug/l	84
14) Allyl chloride	2.17	41	1585	1164.987	ug/l #	1
15) Acrylonitrile	2.92	53	198	1744.095	ug/l #	39
16) Acetone	2.23	43	81	370.435	ug/l #	1
17) Carbon Disulfide	1.84	76	92	35.782	ug/l #	68
18) Methyl Acetate	2.36	43	189	474.194	ug/l #	57
19) Methyl tert-butyl Ether	2.45	73	517	249.989	ug/l #	57
20) Methylene Chloride	2.21	84	131	178.135	ug/l #	1
21) trans-1,2-Dichloroethene	2.31	96	79	93.159	ug/l #	1
22) Diisopropyl ether	2.80	45	211	85.441	ug/l #	28
23) Vinyl Acetate	3.17	43	646	658.524	ug/l #	81
24) 1,1-Dichloroethane	2.86	63	143	85.629	ug/l #	90
25) 2-Butanone	4.30	43	234	825.050	ug/l #	60
26) 2,2-Dichloropropane	3.60	77	417	440.875	ug/l #	61
27) cis-1,2-Dichloroethene	3.49	96	238	251.017	ug/l	1
28) Bromochloromethane	3.75	49	83	134.854	ug/l #	10
29) Tetrahydrofuran	4.07	42	180	1711.567	ug/l #	34
30) Chloroform	3.83	83	90	43.675	ug/l #	15
31) Cyclohexane	3.68	56	66	55.038	ug/l #	17
32) 1,1,1-Trichloroethane	4.04	97	64	37.323	ug/l #	6
36) 1,1-Dichloropropene	4.12	75	67	55.452	ug/l #	45
37) Ethyl Acetate	3.94	43	1169	2526.518	ug/l #	1
38) Carbon Tetrachloride	3.68	117	76	51.675	ug/l #	13

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	5.14	83	166	140.142	ug/l #	56
40) Benzene	4.38	78	161	67.121	ug/l #	1
41) Methacrylonitrile	4.50	41	647	2637.273	ug/l #	69
42) 1,2-Dichloroethane	4.57	62	70	61.171	ug/l	83
43) Isopropyl Acetate	6.51	43	558	997.938	ug/l #	44
44) Trichloroethene	5.22	130	89	115.640	ug/l	1
45) 1,2-Dichloropropane	5.88	63	177	277.091	ug/l #	46
46) Dibromomethane	5.74	93	74	144.086	ug/l #	9
47) Bromodichloromethane	5.85	83	79	62.109	ug/l #	23
48) Methyl methacrylate	6.31	41	340	847.082	ug/l #	7
49) 1,4-Dioxane	6.24	88	113	32651.702	ug/l #	25
51) 4-Methyl-2-Pentanone	7.70	43	354	889.381	ug/l #	39
52) Toluene	7.19	92	60	36.828	ug/l #	1
53) t-1,3-Dichloropropene	7.72	75	73	73.232	ug/l #	1
54) cis-1,3-Dichloropropene	6.80	75	78	66.952	ug/l #	1
55) 1,1,2-Trichloroethane	7.91	97	73	141.360	ug/l #	18
56) Ethyl methacrylate	8.02	69	59	100.543	ug/l #	1
58) 2-Chloroethyl Vinyl ether	7.17	63	301	5021.689	ug/l	100
59) 2-Hexanone	8.80	43	610	2089.404	ug/l #	27
60) Dibromochloromethane	8.17	129	77	99.031	ug/l #	11
61) 1,2-Dibromoethane	8.40	107	68	120.340	ug/l #	4
64) Tetrachloroethene	8.38	164	69	120.554	ug/l #	1
65) Chlorobenzene	9.93	112	67	45.300	ug/l #	40
66) 1,1,1,2-Tetrachloroethane	9.91	131	62	96.006	ug/l #	9
67) Ethyl Benzene	10.01	91	88	31.292	ug/l #	47
68) m/p-Xylenes	10.28	106	73	75.512	ug/l #	1
69) o-Xylene	10.83	106	67	63.582	ug/l #	1
70) Stvrene	10.96	104	79	52.707	ug/l #	29
73) Isopropylbenzene	11.16	105	78	4.763	ug/l #	51
74) N-amyl acetate	11.44	43	322	85.668	ug/l #	37
75) 1,1,2,2-Tetrachloroethane	11.77	83	73	24.449	ug/l #	22
76) 1,2,3-Trichloropropane	11.83	75	101	45.947	ug/l #	39
77) Bromobenzene	11.53	156	66	18.028	ug/l #	1
78) n-propylbenzene	11.69	91	102	5.137	ug/l #	55
79) 2-Chlorotoluene	11.80	91	59	5.080	ug/l #	46
80) 1,3,5-Trimethylbenzene	11.92	105	74	5.318	ug/l #	31
81) trans-1,4-Dichloro-2-buten	11.97	75	69	70.813	ug/l #	70
82) 4-Chlorotoluene	12.02	91	70	5.891	ug/l #	43
83) tert-Butylbenzene	12.20	119	74	5.392	ug/l #	71
84) 1,2,4-Trimethylbenzene	12.29	105	84	6.087	ug/l #	30
85) sec-Butylbenzene	12.32	105	73	3.854	ug/l #	58
86) p-Isopropyltoluene	12.58	119	90	5.815	ug/l #	49
87) 1,3-Dichlorobenzene	12.60	146	82	11.903	ug/l #	23
88) 1,4-Dichlorobenzene	12.64	146	78	11.482	ug/l #	24
89) n-Butylbenzene	12.92	91	89	5.435	ug/l #	28
90) Hexachloroethane	12.93	117	140	35.000	ug/l #	27
91) 1,2-Dichlorobenzene	12.99	146	92	13.938	ug/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.71	75	85	146.845	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.15	180	63	12.770	ug/l #	10
95) Naphthalene	14.51	128	354	40.132	ug/l #	70

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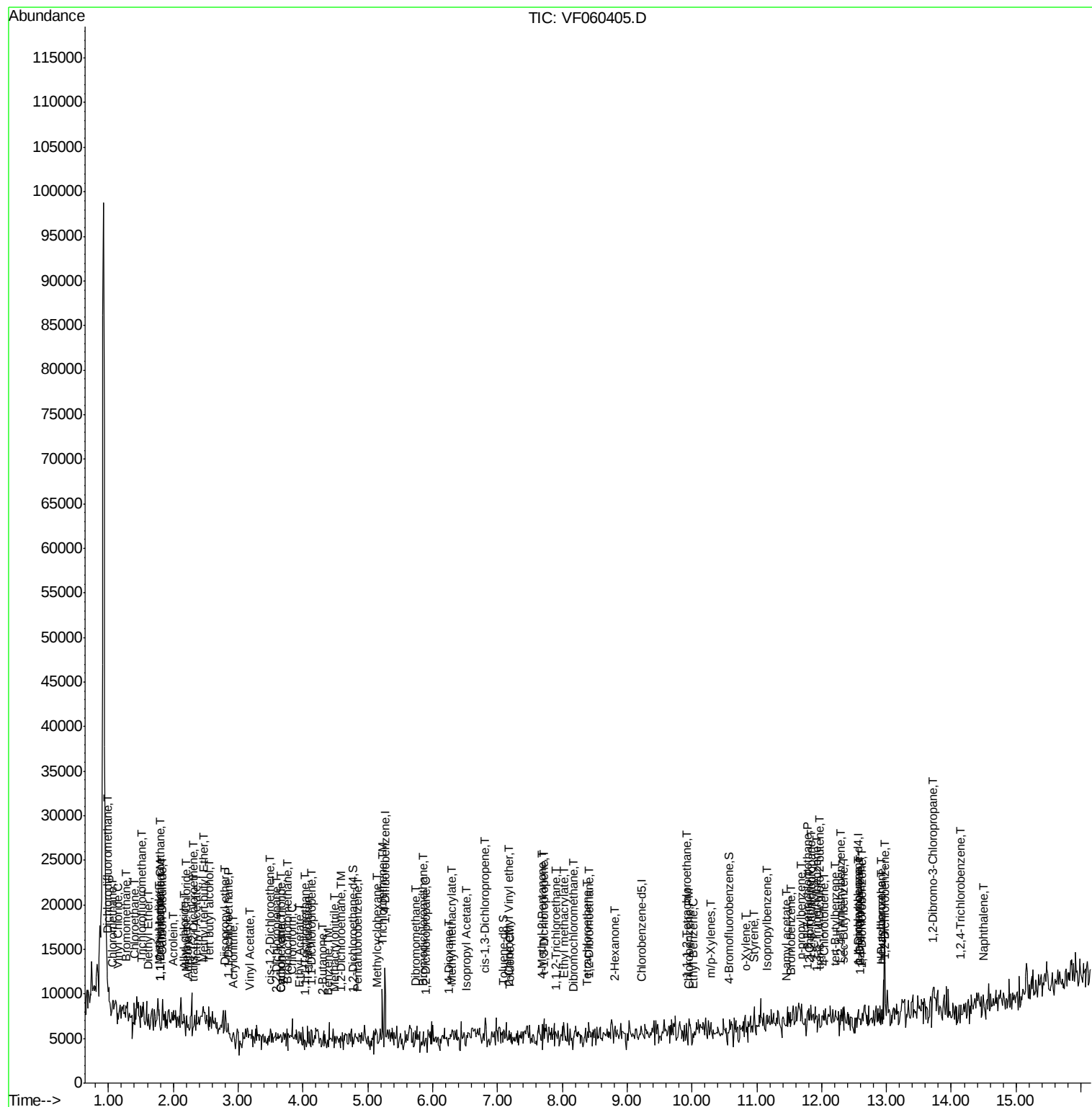
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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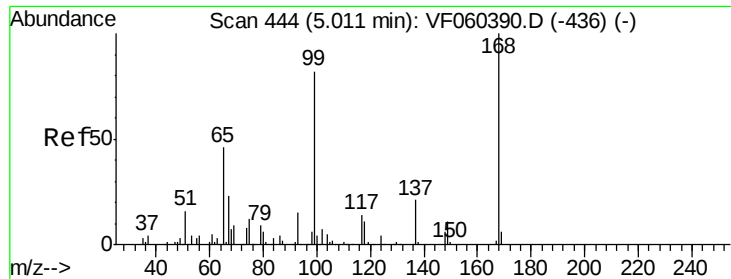
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.17 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

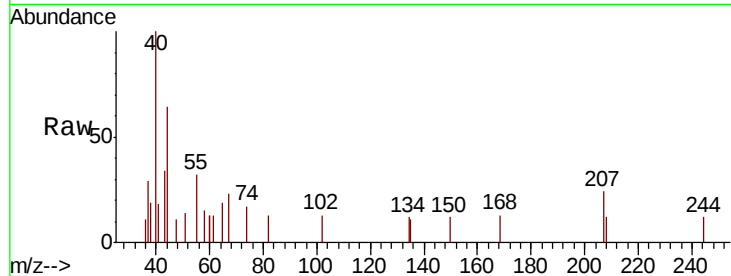
HC-SOIL-1RE

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

150

100

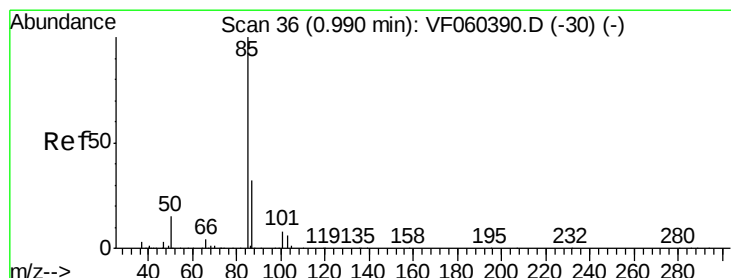
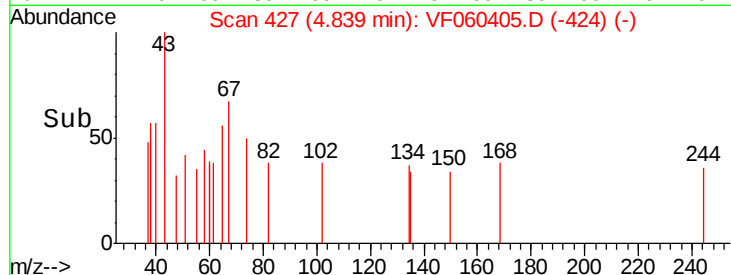
50

0

4.82 4.84 4.86

4.84

Time-->



#2

Dichlorodifluoromethane

Concen: 53.583 ug/l

RT: 0.99 min Scan# 37

Delta R.T. 0.01 min

Lab File: VF060405.D

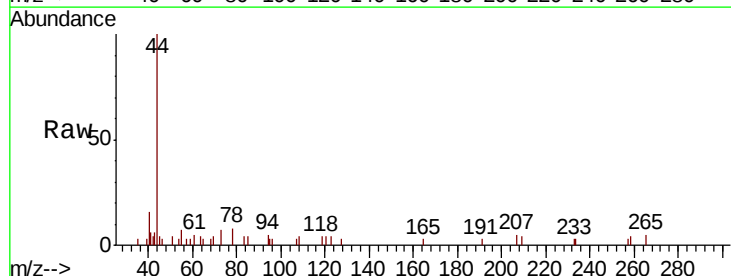
Acq: 2 Oct 2018 16:36

Tgt Ion: 85 Resp: 80

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

200

150

100

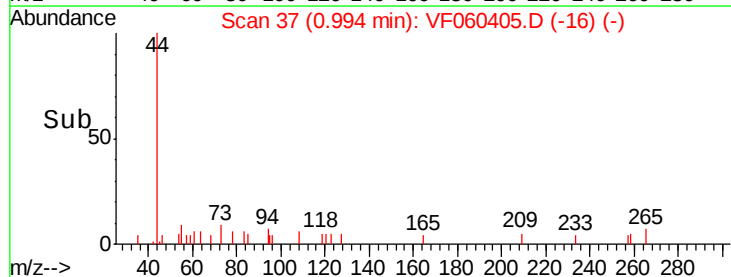
50

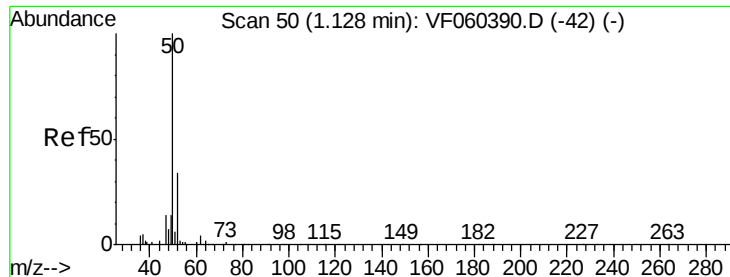
0

0.96 0.98 1.00 1.02

0.99

Time-->





#3

Chloromethane

Concen: 195.679 ug/l

RT: 1.04 min Scan# 42

Delta R.T. -0.08 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

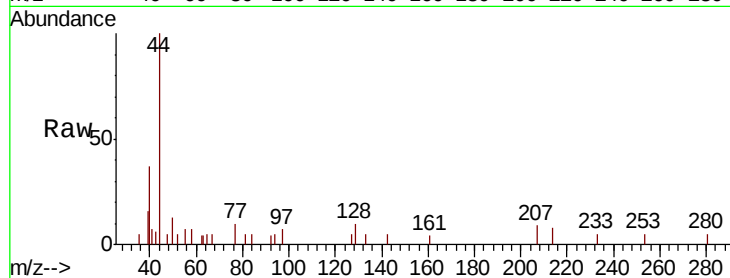
HC-SOIL-1RE

Tot Ion: 50 Resp: 186

Ion Ratio Lower Upper

50 100

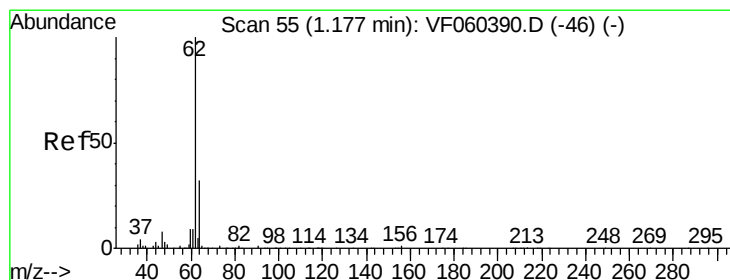
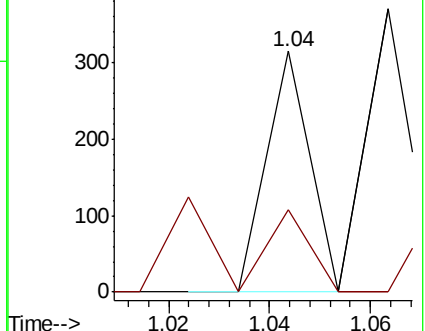
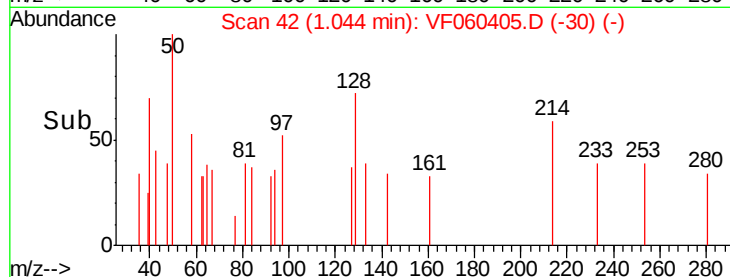
52 34.0 26.9 40.3



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Time-->



#4

Vinyl Chloride

Concen: 117.313 ug/l

RT: 1.14 min Scan# 52

Delta R.T. -0.03 min

Lab File: VF060405.D

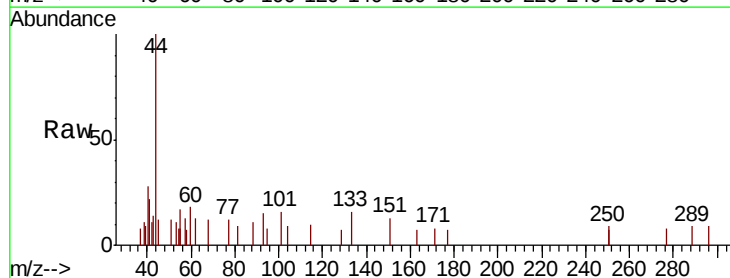
Acq: 2 Oct 2018 16:36

Tgt Ion: 62 Resp: 116

Ion Ratio Lower Upper

62 100

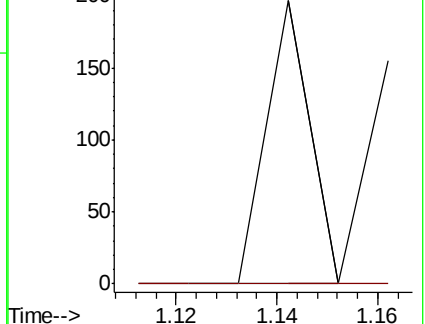
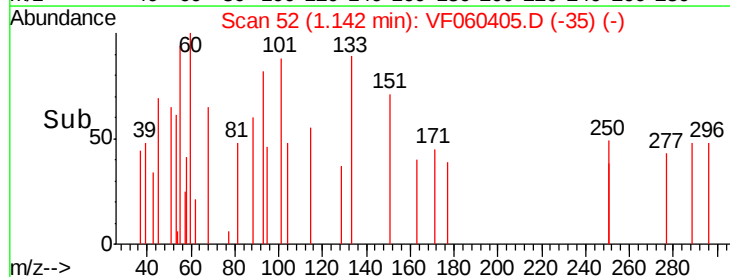
64 0.0 25.8 38.6#

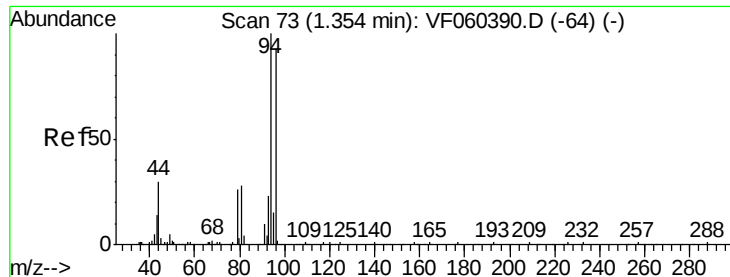


Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0

Time-->





#5

Bromomethane

Concen: 263.739 ug/l

RT: 1.26 min Scan# 64

Delta R.T. -0.09 min

Lab File: VF060405.D

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Instrument :

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ClientSampleId :

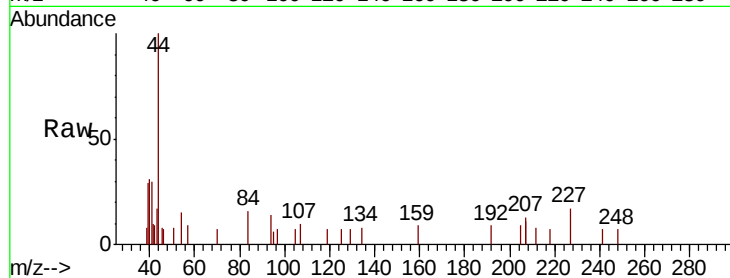
HC-SOIL-1RE

Tot Ion: 94 Resp: 202

Ion Ratio Lower Upper

94 100

96 48.8 74.3 111.5#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

250

200

150

100

50

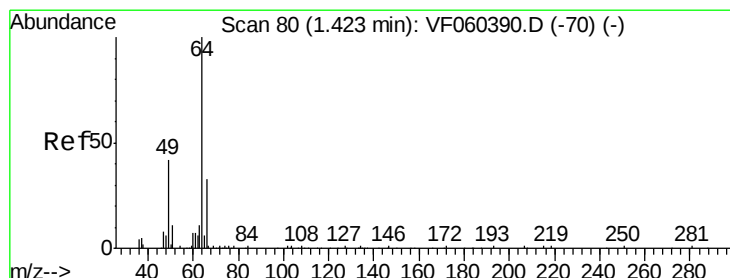
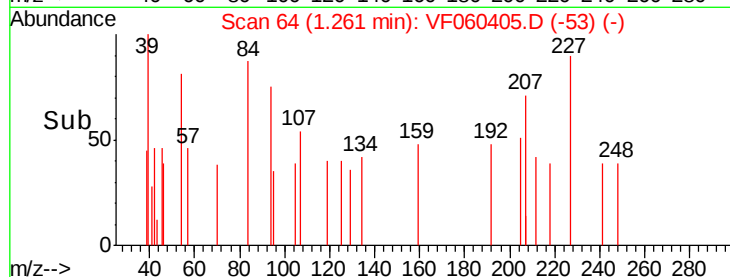
0

1.24

1.26

1.28

Time-->



#6

Chloroethane

Concen: 172.259 ug/l

RT: 1.40 min Scan# 78

Delta R.T. -0.02 min

Lab File: VF060405.D

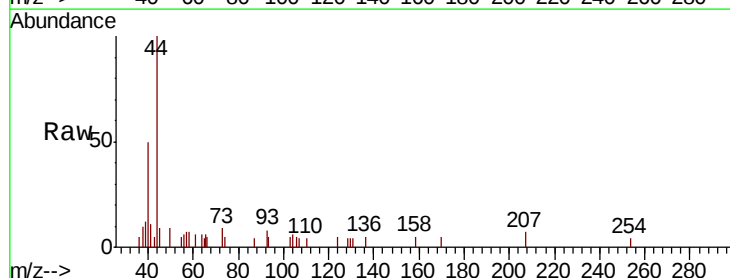
Acq: 2 Oct 2018 16:36

Tgt Ion: 64 Resp: 85

Ion Ratio Lower Upper

64 100

66 88.8 26.3 39.5#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0

200

150

100

50

0

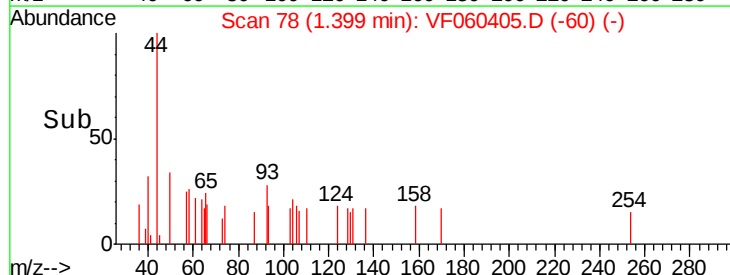
1.36

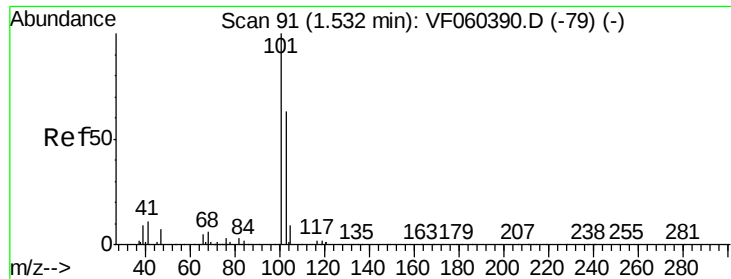
1.38

1.40

1.42

Time-->



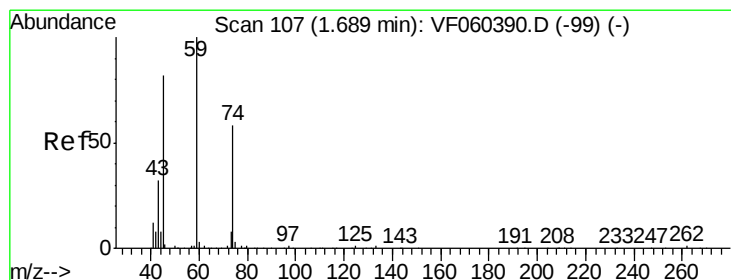
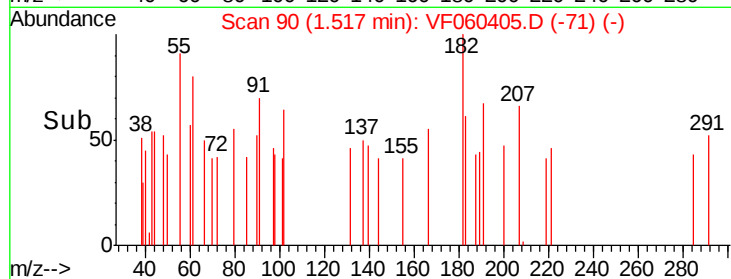
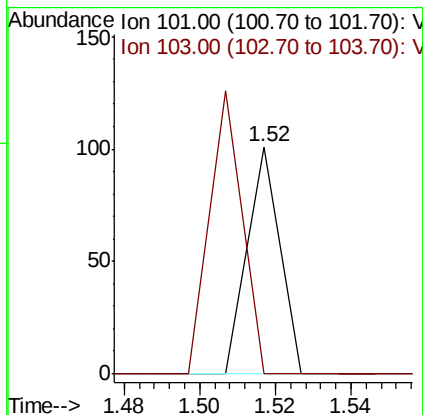
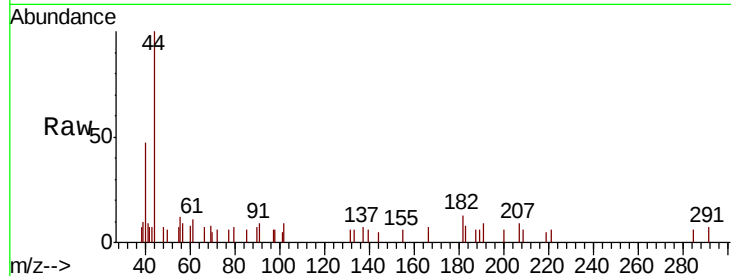


#7

Trichlorofluoromethane
 Concen: 26.153 ug/l
 RT: 1.52 min Scan# 90
 Delta R.T. -0.01 min
 Lab File: VF060405.D
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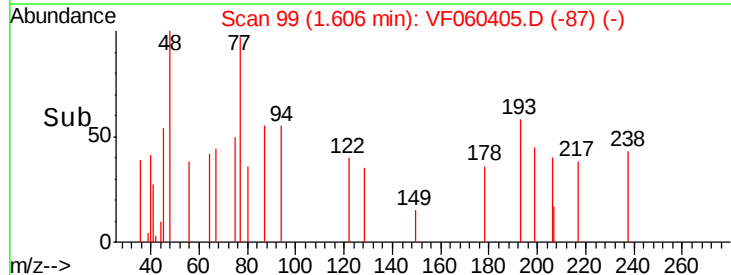
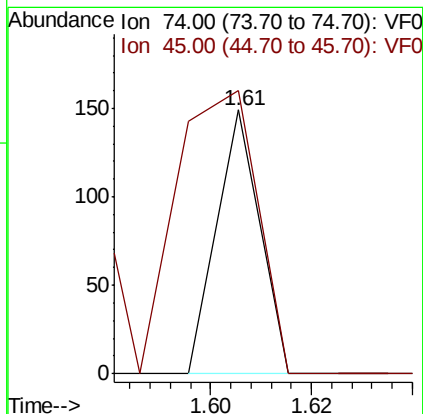
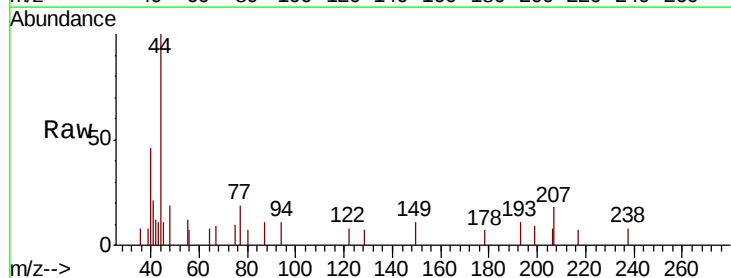
Tot Ion:101 Resp: 60
 Ion Ratio Lower Upper
 101 100
 103 0.0 51.0 76.4#

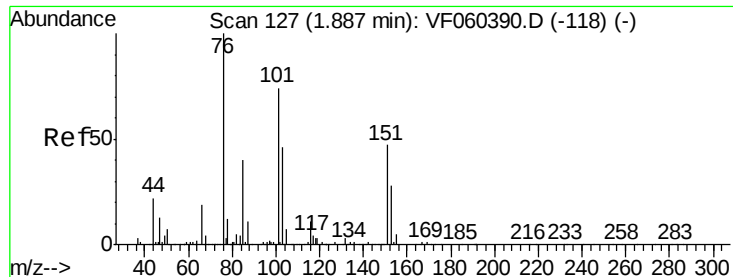


#8

Diethyl Ether
 Concen: 279.895 ug/l
 RT: 1.61 min Scan# 99
 Delta R.T. -0.08 min
 Lab File: VF060405.D
 Acq: 2 Oct 2018 16:36

Tgt Ion: 74 Resp: 88
 Ion Ratio Lower Upper
 74 100
 45 107.4 71.3 213.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 54.600 ug/l

RT: 1.80 min Scan# 119

Delta R.T. -0.08 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

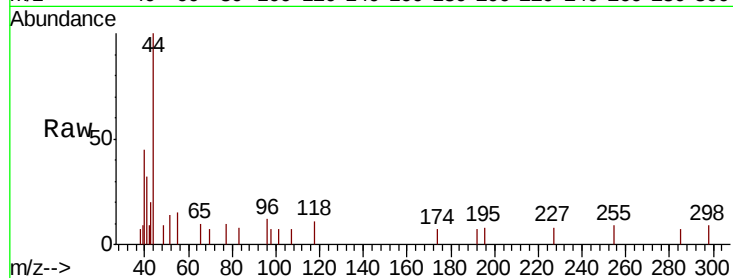
Tot Ion:101 Resp: 60

Ion Ratio Lower Upper

101 100

85 0.0 42.5 63.7#

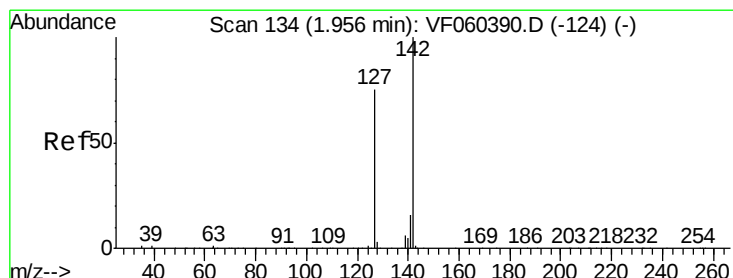
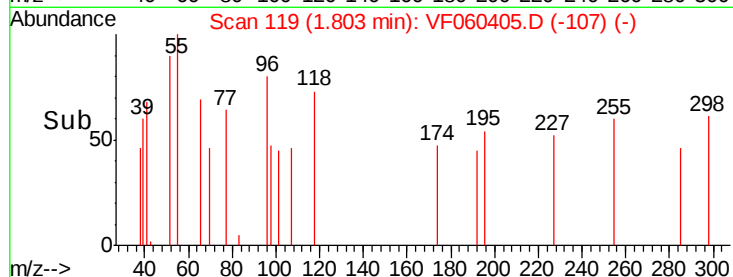
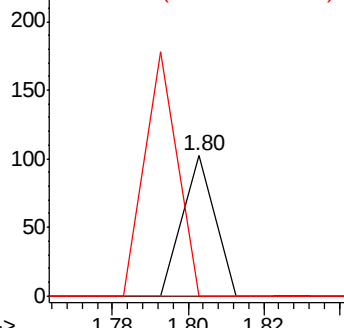
151 0.0 49.8 74.8#



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: 36.997 ug/l

RT: 1.79 min Scan# 118

Delta R.T. -0.16 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

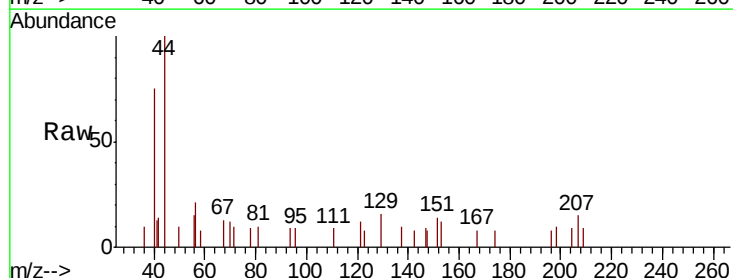
Tgt Ion:142 Resp: 62

Ion Ratio Lower Upper

142 100

127 0.0 60.2 90.2#

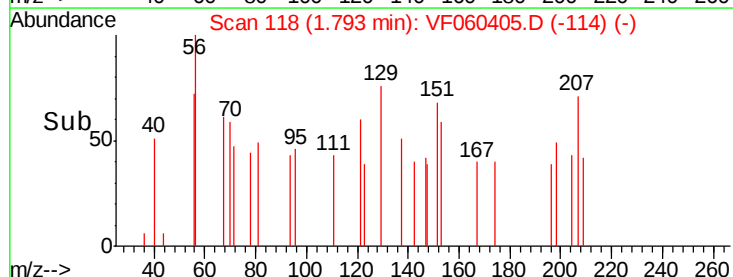
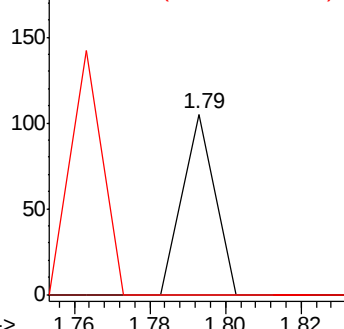
141 0.0 13.1 19.7#

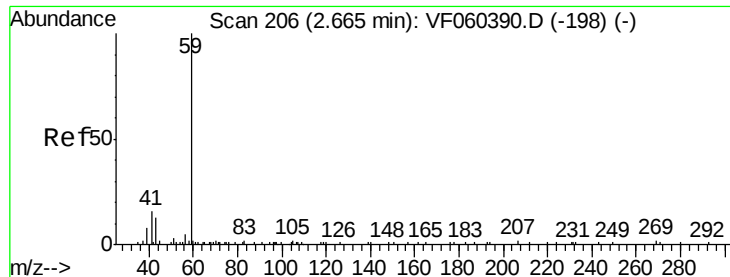


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



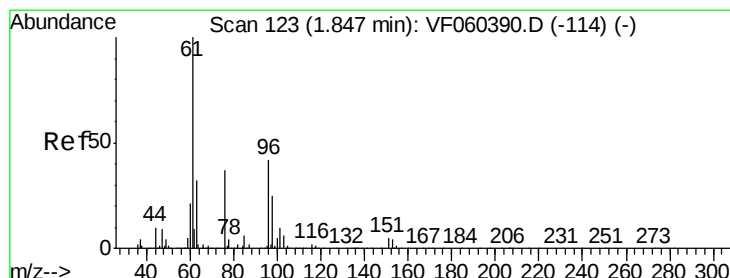
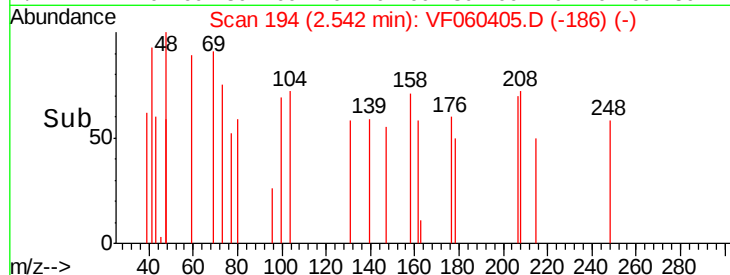
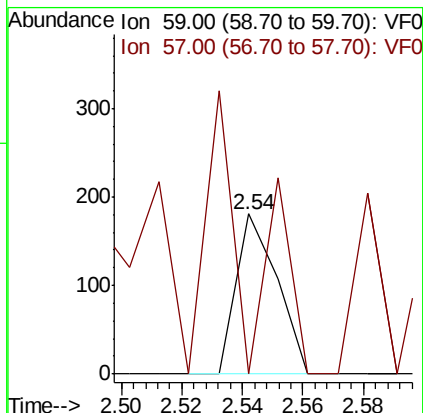
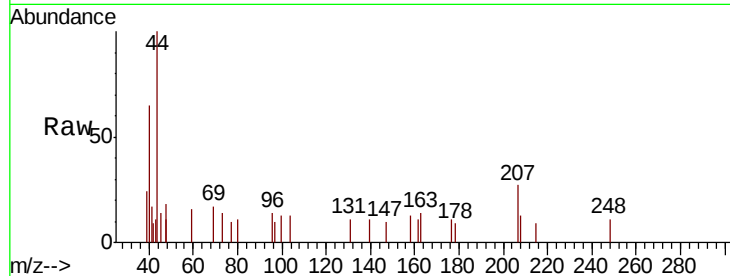


#11

Tert butyl alcohol
Concen: 2565.884 ug/l
RT: 2.54 min Scan# 194
Delta R.T. -0.12 min
Lab File: VF060405.D
Acq: 2 Oct 2018 16:36

Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-1RE

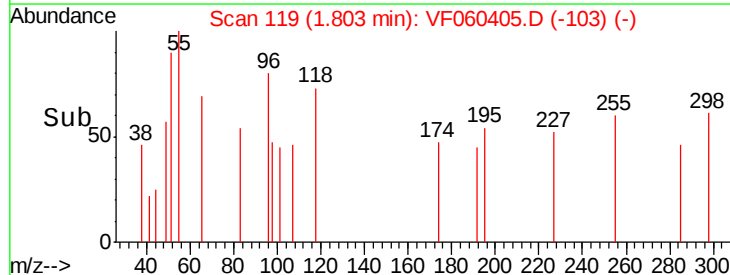
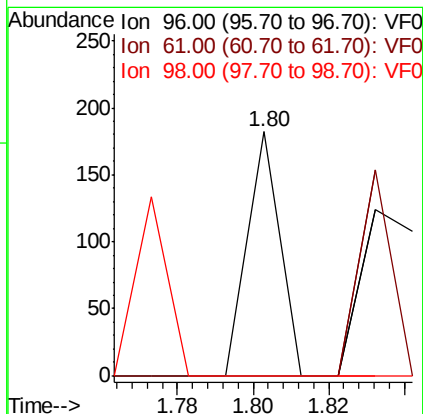
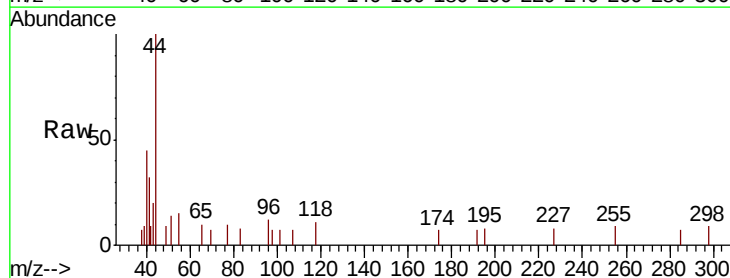
Tot Ion: 59 Resp: 170
Ion Ratio Lower Upper
59 100
57 0.0 6.5 9.7#

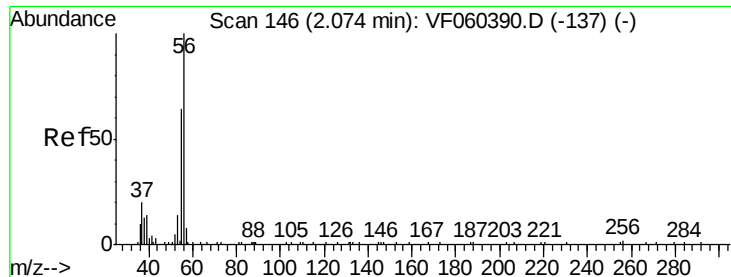


#12

1,1-Dichloroethene
Concen: 127.195 ug/l
RT: 1.80 min Scan# 119
Delta R.T. -0.04 min
Lab File: VF060405.D
Acq: 2 Oct 2018 16:36

Tgt Ion: 96 Resp: 108
Ion Ratio Lower Upper
96 100
61 0.0 189.4 284.0#
98 0.0 47.8 71.6#





#13

Acrolein

Concen: 6812.806 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.08 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

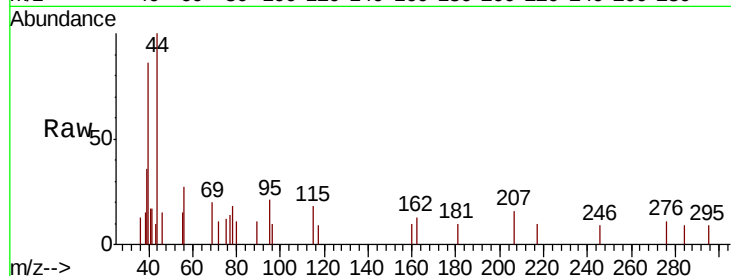
HC-SOIL-1RE

Tot Ion: 56 Resp: 363

Ion Ratio Lower Upper

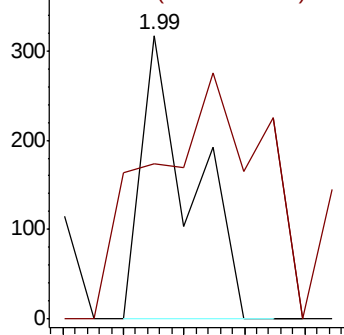
56 100

55 54.6 53.9 80.9

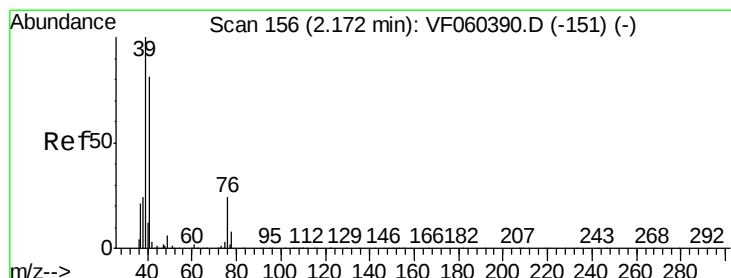
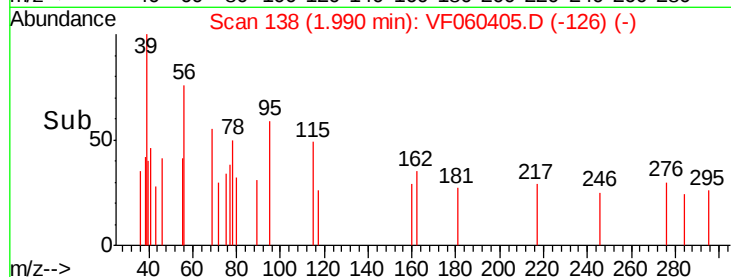


Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0



Time-->



#14

Allyl chloride

Concen: 1164.987 ug/l

RT: 2.17 min Scan# 156

Delta R.T. -0.01 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

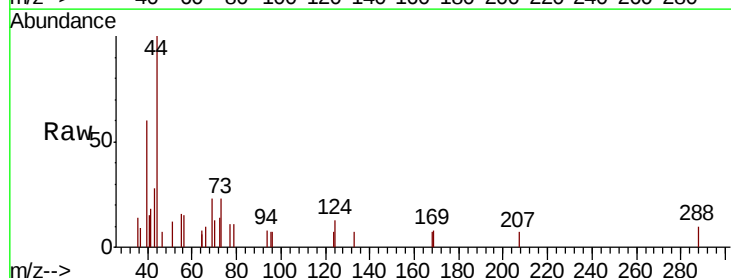
Tgt Ion: 41 Resp: 1585

Ion Ratio Lower Upper

41 100

39 0.0 98.3 147.5#

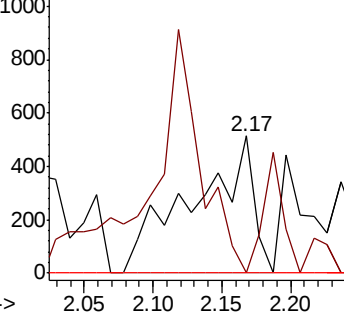
76 0.0 23.9 35.9#



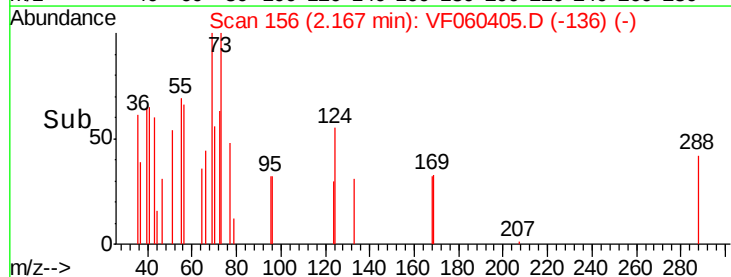
Abundance Ion 41.00 (40.70 to 41.70): VF0

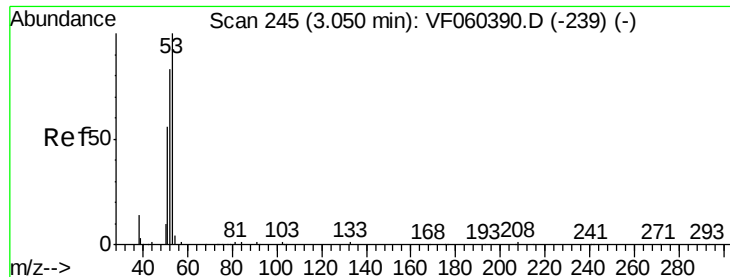
Ion 39.00 (38.70 to 39.70): VF0

Ion 76.00 (75.70 to 76.70): VF0



Time-->





#15

Acrylonitrile

Concen: 1744.095 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.13 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

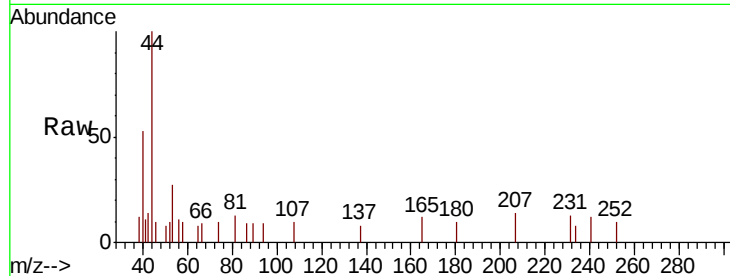
Tot Ion: 53 Resp: 198

Ion Ratio Lower Upper

53 100

52 38.2 66.0 99.0#

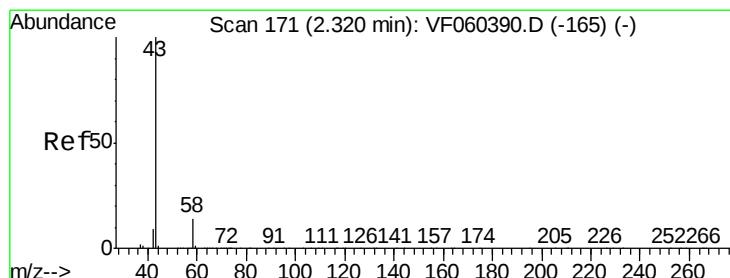
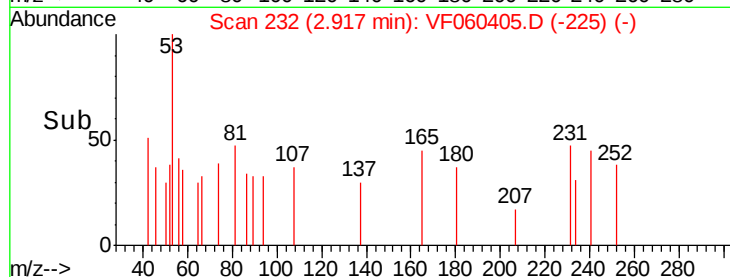
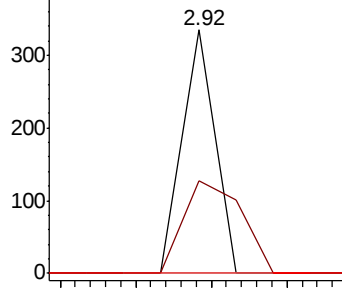
51 0.0 45.6 68.4#



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: 370.435 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.09 min

Lab File: VF060405.D

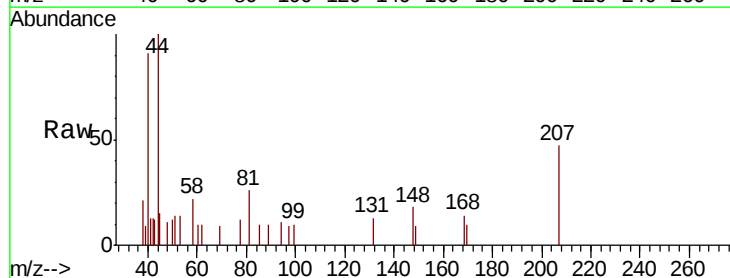
Acq: 2 Oct 2018 16:36

Tgt Ion: 43 Resp: 81

Ion Ratio Lower Upper

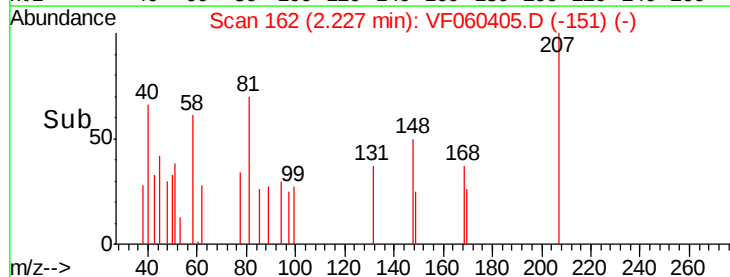
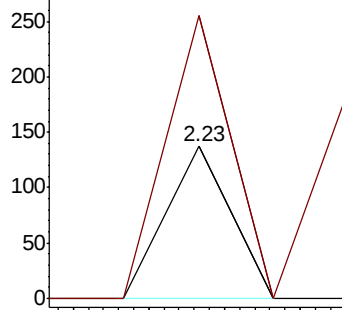
43 100

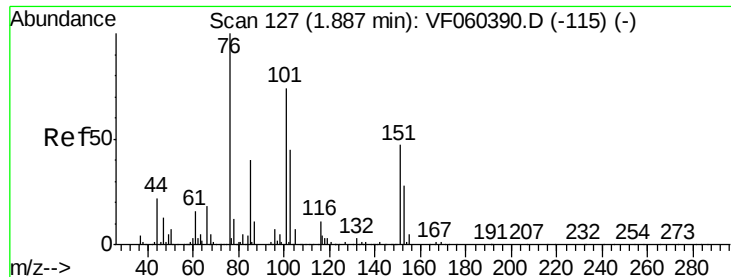
58 186.1 11.2 16.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#17

Carbon Disulfide

Concen: 35.782 ug/l

RT: 1.84 min Scan# 123

Delta R.T. -0.04 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

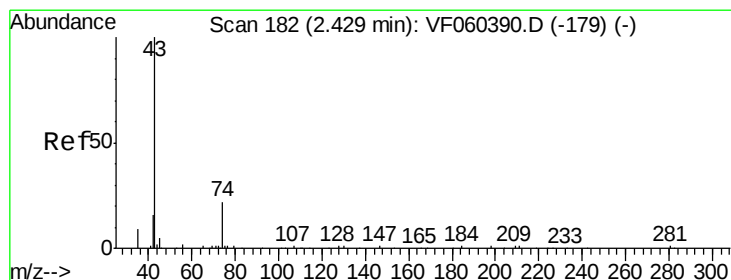
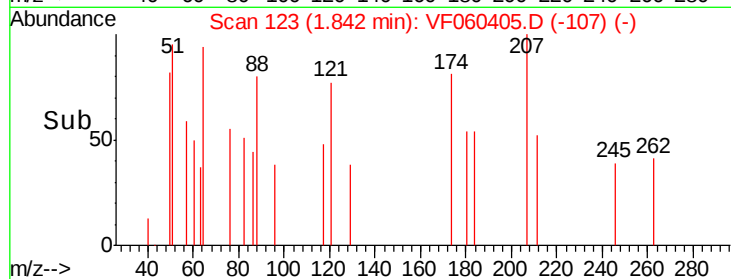
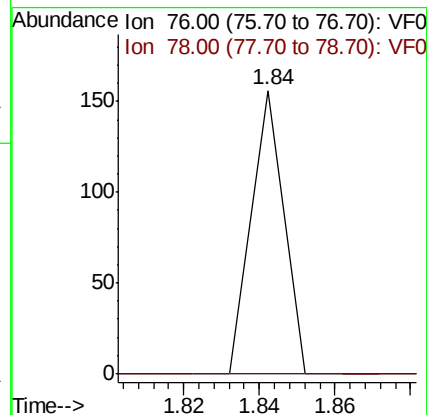
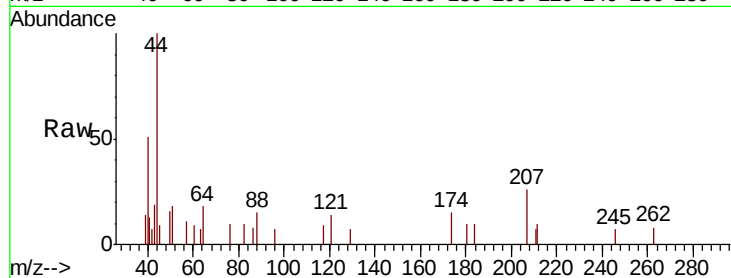
HC-SOIL-1RE

Tot Ion: 76 Resp: 92

Ion Ratio Lower Upper

76 100

78 0.0 10.1 15.1#



#18

Methyl Acetate

Concen: 474.194 ug/l

RT: 2.36 min Scan# 176

Delta R.T. -0.06 min

Lab File: VF060405.D

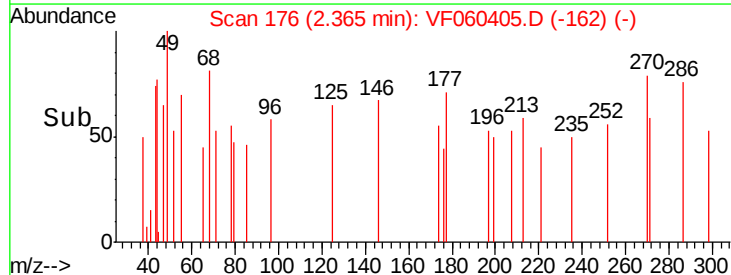
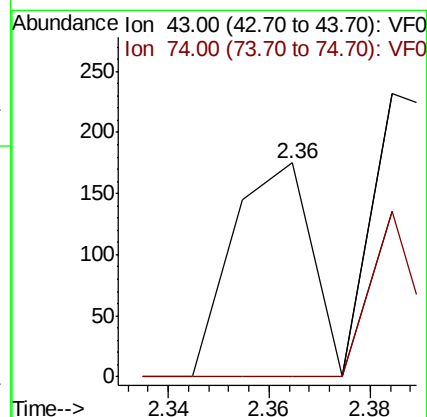
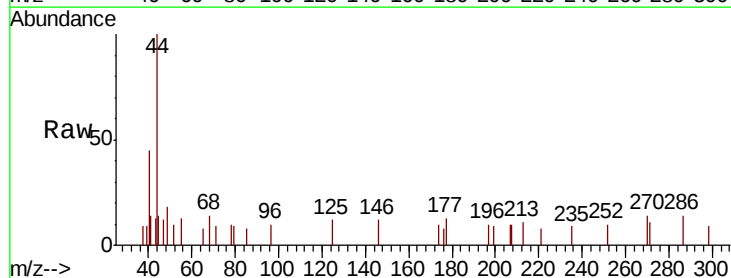
Acq: 2 Oct 2018 16:36

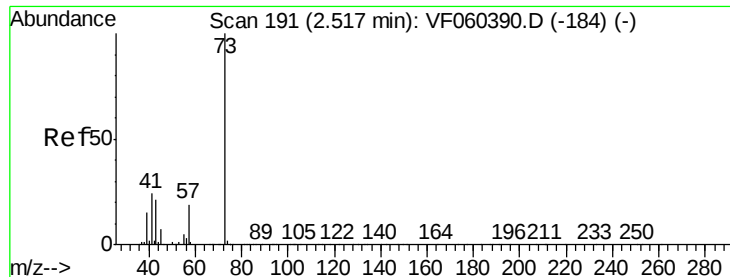
Tgt Ion: 43 Resp: 189

Ion Ratio Lower Upper

43 100

74 0.0 15.8 23.8#



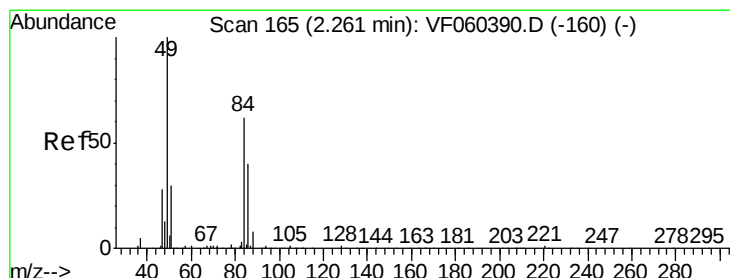
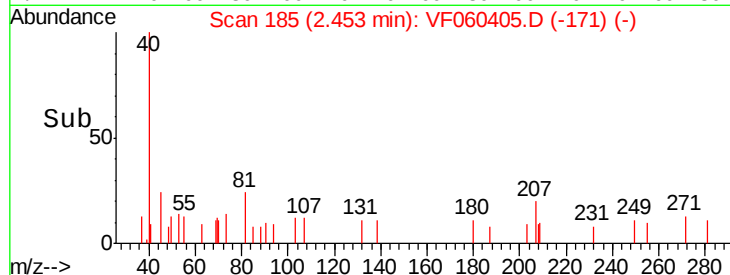
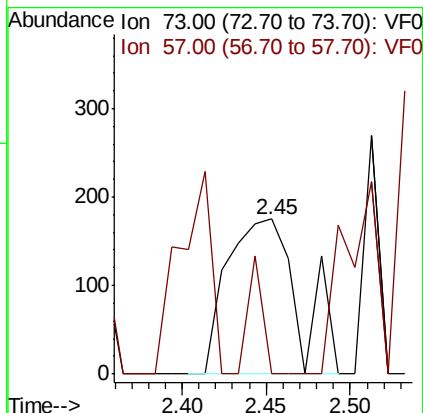
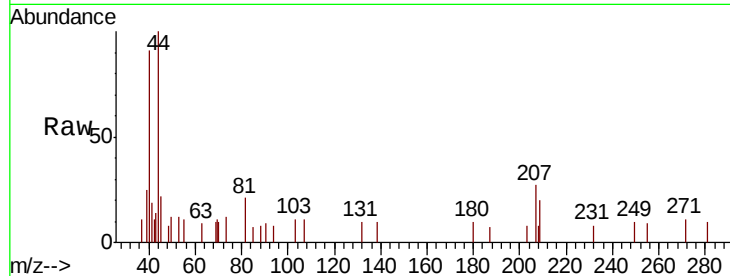


#19

Methyl tert-butyl Ether
 Concen: 249.989 ug/l
 RT: 2.45 min Scan# 185
 Delta R.T. -0.06 min
 Lab File: VF060405.D
 Acq: 2 Oct 2018 16:36

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-1RE

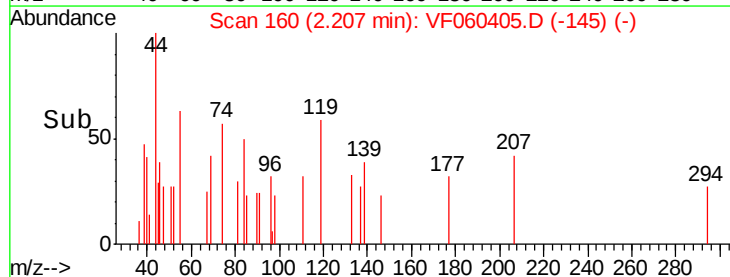
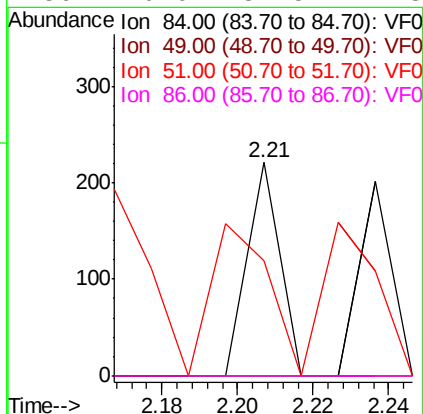
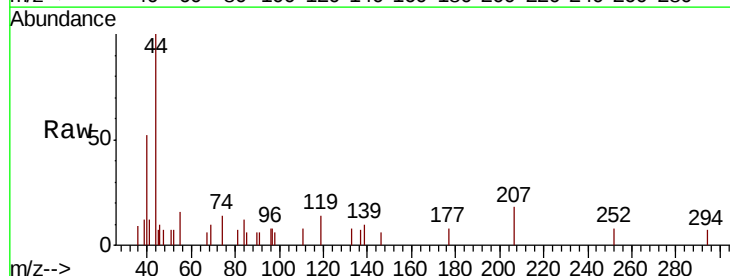
Tot Ion: 73 Resp: 517
 Ion Ratio Lower Upper
 73 100
 57 0.0 15.9 23.9#

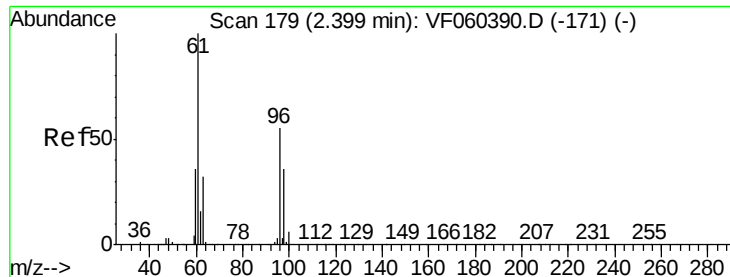


#20

Methylene Chloride
 Concen: 178.135 ug/l
 RT: 2.21 min Scan# 160
 Delta R.T. -0.05 min
 Lab File: VF060405.D
 Acq: 2 Oct 2018 16:36

Tgt Ion: 84 Resp: 131
 Ion Ratio Lower Upper
 84 100
 49 0.0 130.2 195.2#
 51 107.7 41.0 61.6#
 86 0.0 51.5 77.3#





#21

trans-1,2-Dichloroethene

Concen: 93.159 ug/l

RT: 2.31 min Scan# 170

Delta R.T. -0.09 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

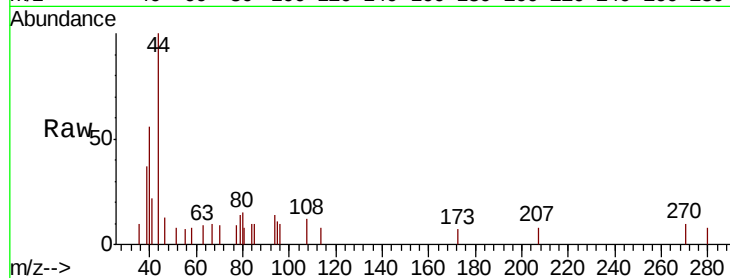
Tot Ion: 96 Resp: 79

Ion Ratio Lower Upper

96 100

61 0.0 146.2 219.2#

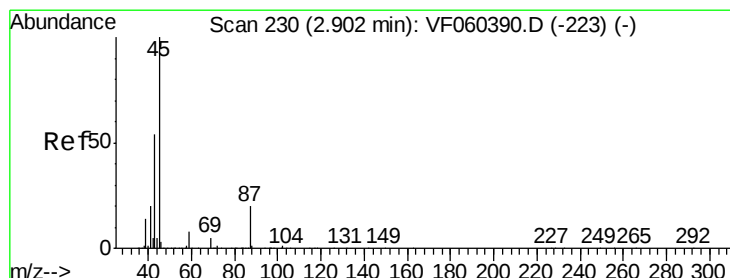
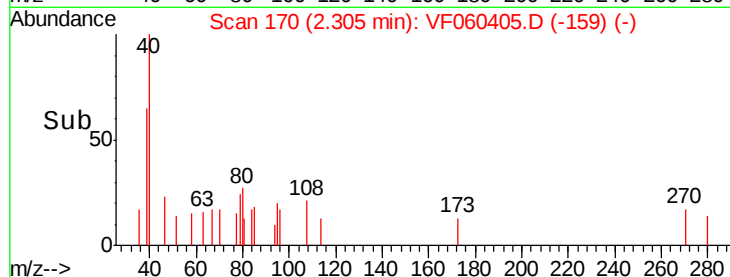
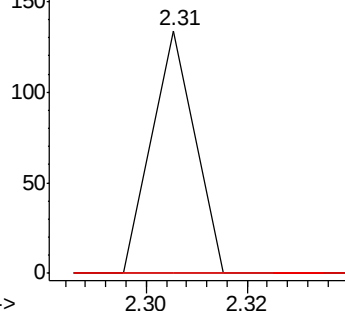
98 0.0 52.6 78.8#



Abundance Ion 96.00 (95.70 to 96.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 98.00 (97.70 to 98.70): VF0



#22

Diisopropyl ether

Concen: 85.441 ug/l

RT: 2.80 min Scan# 220

Delta R.T. -0.10 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Tgt Ion: 45 Resp: 211

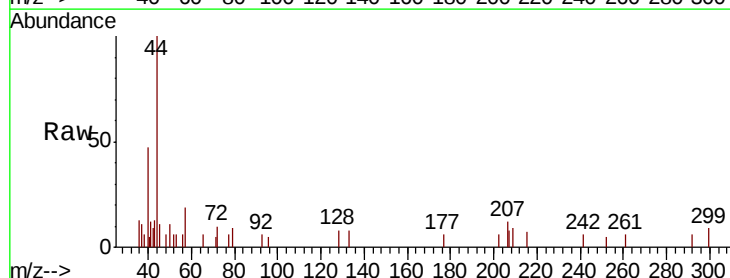
Ion Ratio Lower Upper

45 100

43 119.7 43.8 65.8#

87 0.0 16.3 24.5#

59 0.0 6.6 10.0#

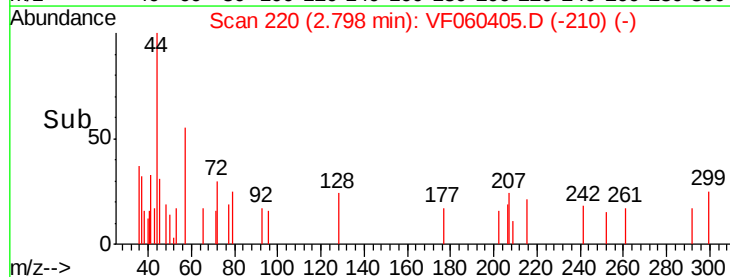
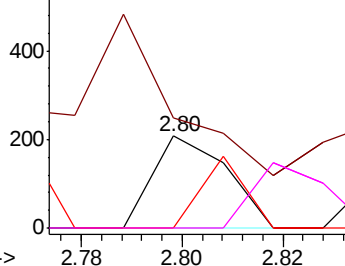


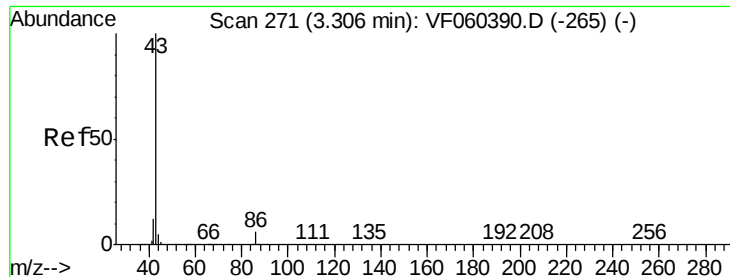
Abundance Ion 45.00 (44.70 to 45.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

Ion 59.00 (58.70 to 59.70): VF0





#23

Vinyl Acetate

Concen: 658.524 ug/l

RT: 3.17 min Scan# 258

Delta R.T. -0.13 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

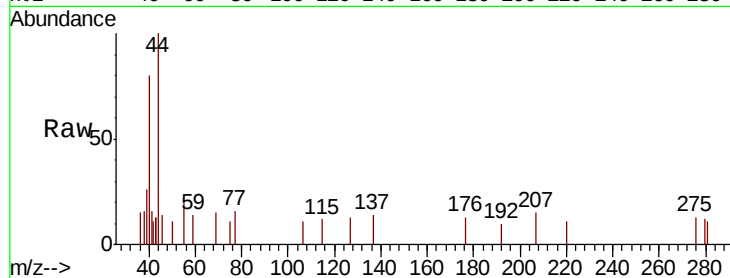
HC-SOIL-1RE

Tot Ion: 43 Resp: 646

Ion Ratio Lower Upper

43 100

86 0.0 5.1 7.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

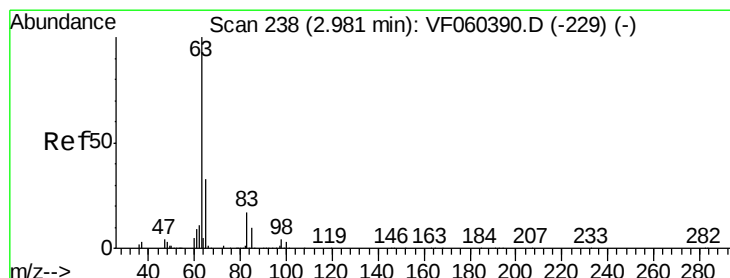
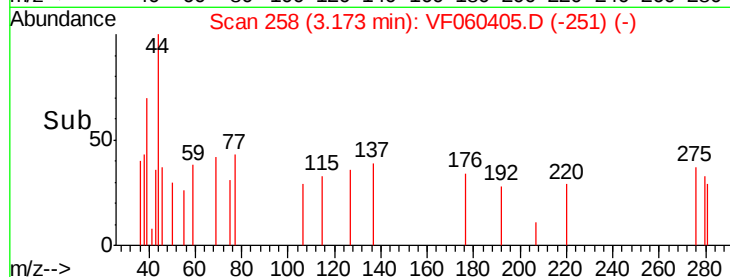
Ion 86.00 (85.70 to 86.70): VF0

3.17

3.20

3.25

Time-->



#24

1,1-Dichloroethane

Concen: 85.629 ug/l

RT: 2.86 min Scan# 226

Delta R.T. -0.12 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

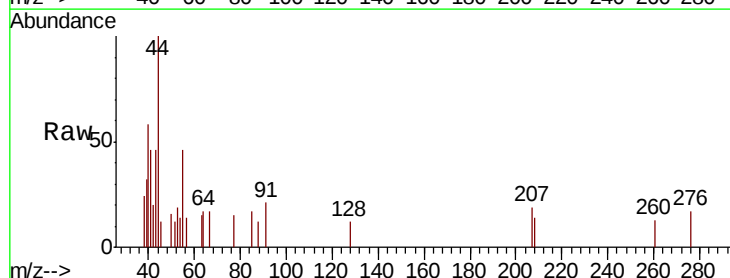
Tgt Ion: 63 Resp: 143

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

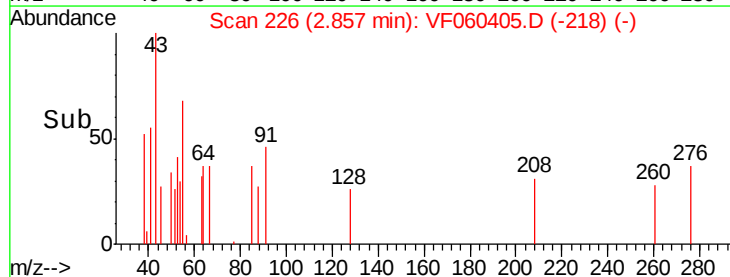
Ion 98.00 (97.70 to 98.70): VF0

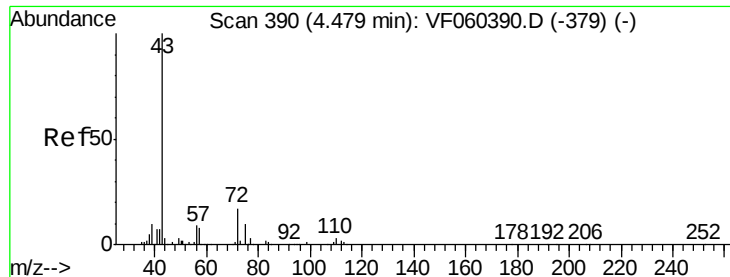
Ion 100.00 (99.70 to 100.70): VF0

2.86

2.90

Time-->





#25

2-Butanone

Concen: 825.050 ug/l

RT: 4.30 min Scan# 372

Delta R.T. -0.18 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

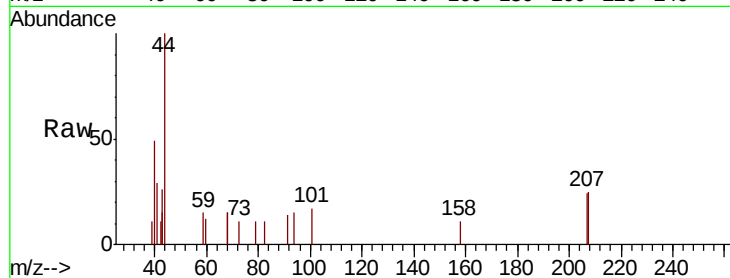
HC-SOIL-1RE

Tot Ion: 43 Resp: 234

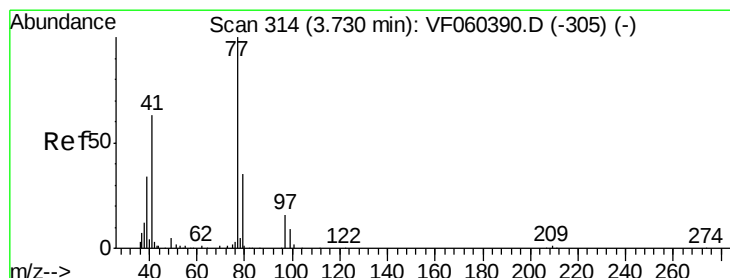
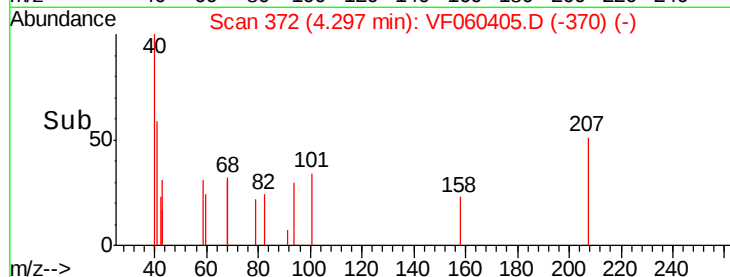
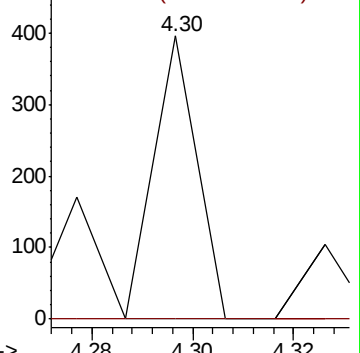
Ion Ratio Lower Upper

43 100

72 0.0 14.1 21.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0



#26

2,2-Dichloropropane

Concen: 440.875 ug/l

RT: 3.60 min Scan# 301

Delta R.T. -0.13 min

Lab File: VF060405.D

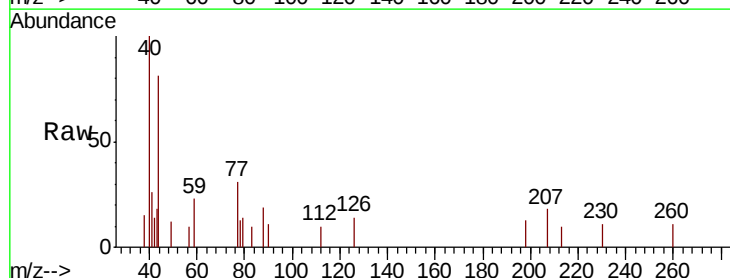
Acq: 2 Oct 2018 16:36

Tgt Ion: 77 Resp: 417

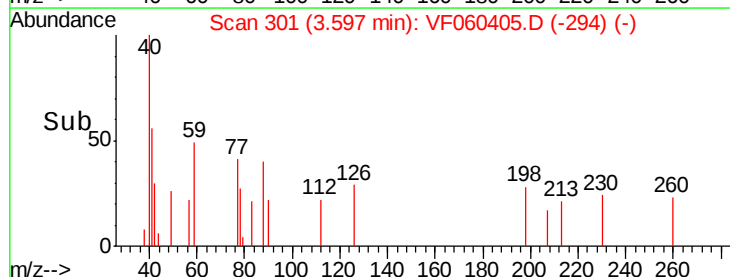
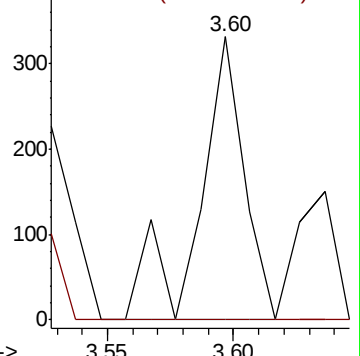
Ion Ratio Lower Upper

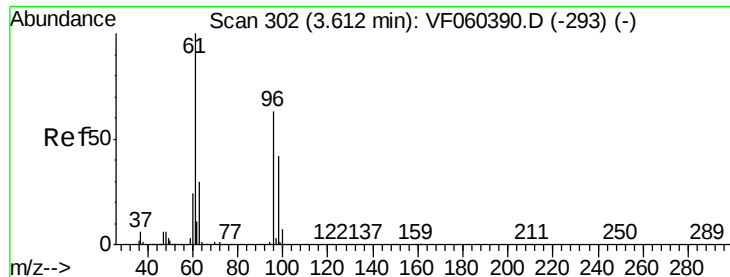
77 100

97 0.0 8.3 25.1#



Abundance Ion 77.00 (76.70 to 77.70): VF0



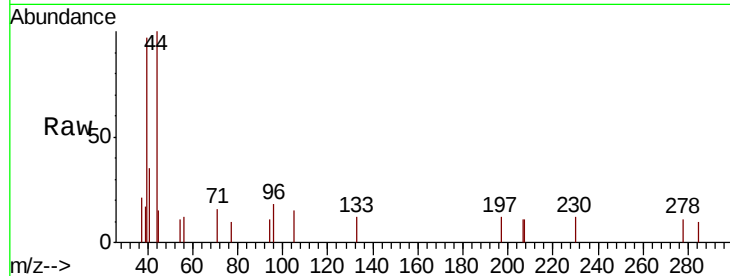


#27

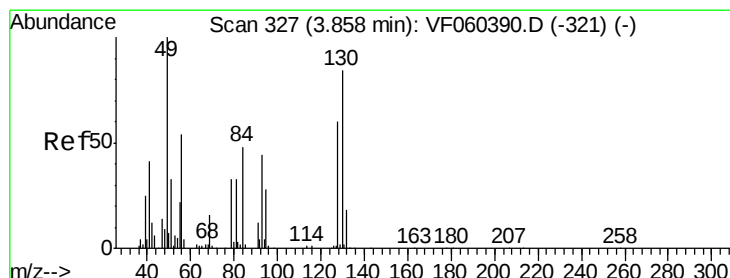
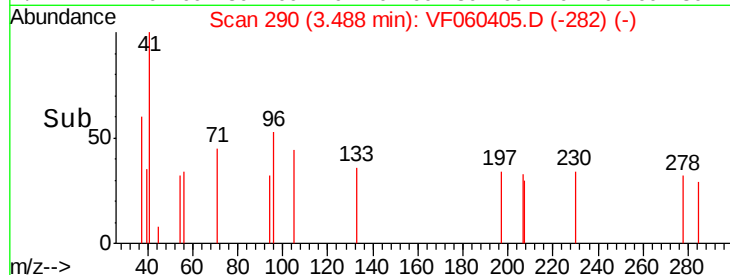
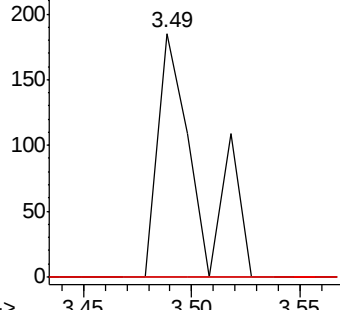
cis-1,2-Dichloroethene
 Concen: 251.017 ug/l
 RT: 3.49 min Scan# 290
 Delta R.T. -0.12 min
 Lab File: VF060405.D
 Acq: 2 Oct 2018 16:36

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-1RE

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



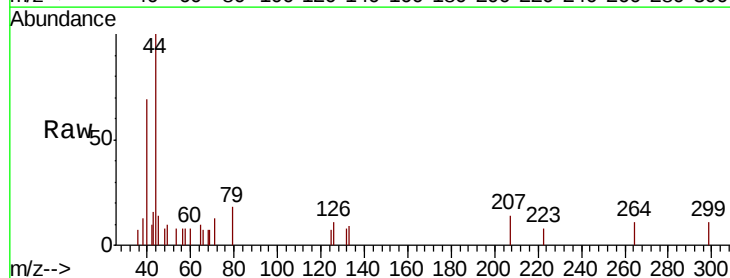
Abundance Ion 96.00 (95.70 to 96.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 98.00 (97.70 to 98.70): VF0



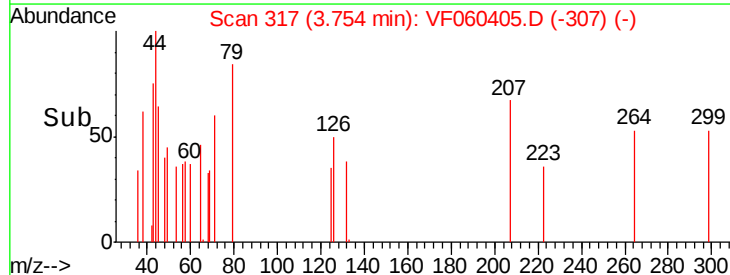
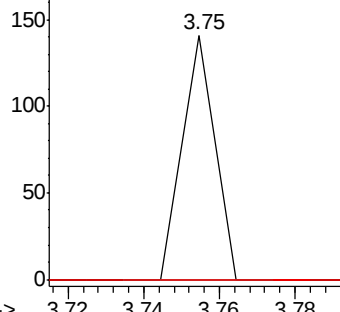
#28

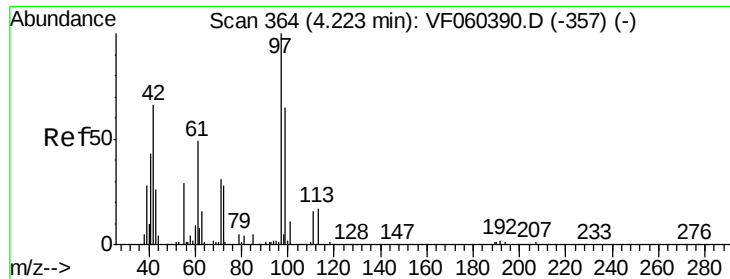
Bromochloromethane
 Concen: 134.854 ug/l
 RT: 3.75 min Scan# 317
 Delta R.T. -0.10 min
 Lab File: VF060405.D
 Acq: 2 Oct 2018 16:36

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



Abundance Ion 49.00 (48.70 to 49.70): VF0
 Ion 129.00 (128.70 to 129.70): V
 Ion 130.00 (129.70 to 130.70): V





#29

Tetrahydrofuran

Concen: 1711.567 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.15 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

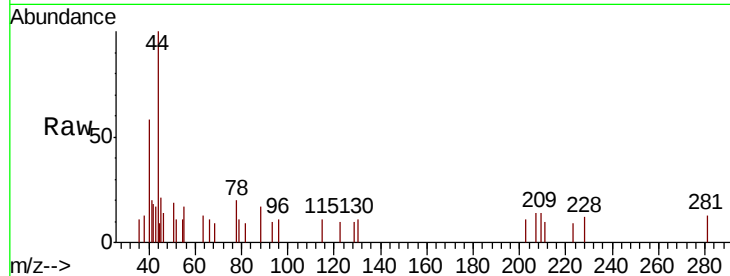
Tot Ion: 42 Resp: 180

Ion Ratio Lower Upper

42 100

72 0.0 33.6 50.4#

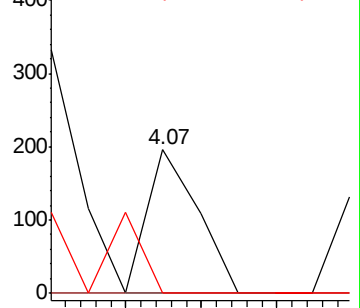
71 0.0 32.7 49.1#



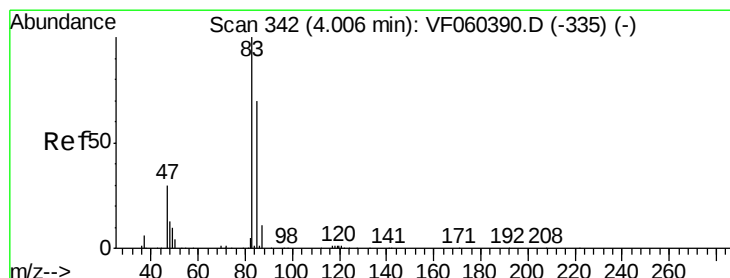
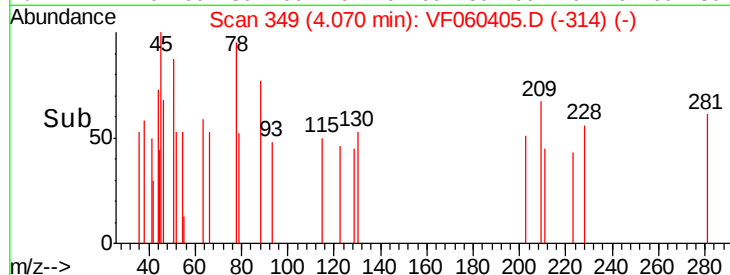
Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



Time-->



#30

Chloroform

Concen: 43.675 ug/l

RT: 3.83 min Scan# 325

Delta R.T. -0.17 min

Lab File: VF060405.D

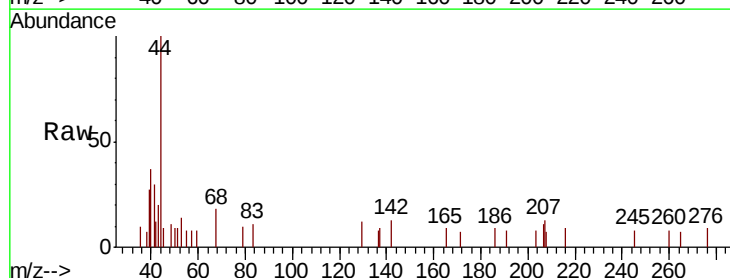
Acq: 2 Oct 2018 16:36

Tgt Ion: 83 Resp: 90

Ion Ratio Lower Upper

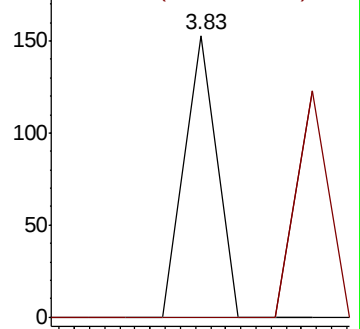
83 100

85 0.0 55.9 83.9#

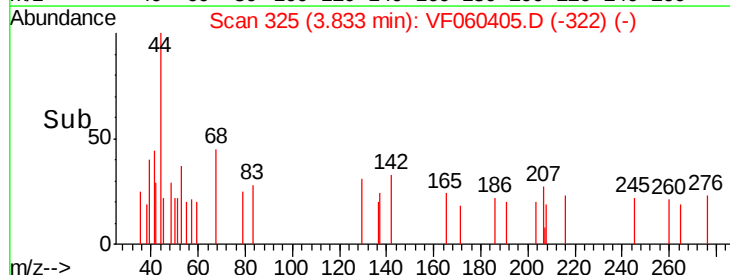


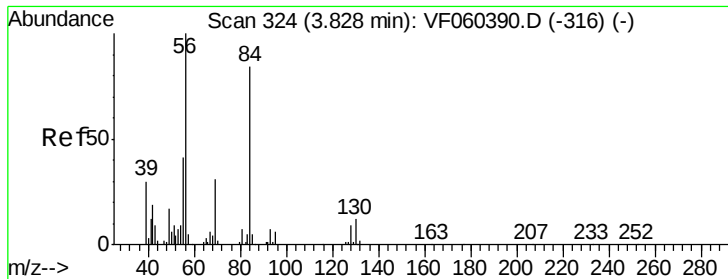
Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0



Time-->





#31

Cyclohexane

Concen: 55.038 ug/l

RT: 3.68 min Scan# 309

Delta R.T. -0.15 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

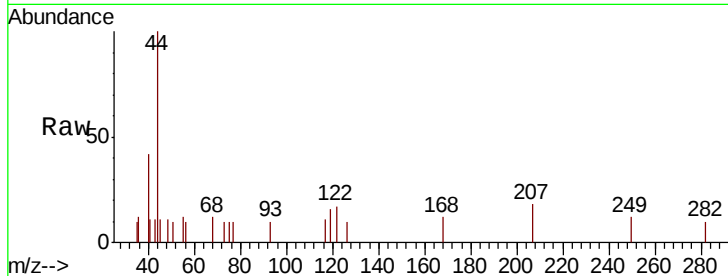
Tot Ion: 56 Resp: 66

Ion Ratio Lower Upper

56 100

69 0.0 25.5 38.3#

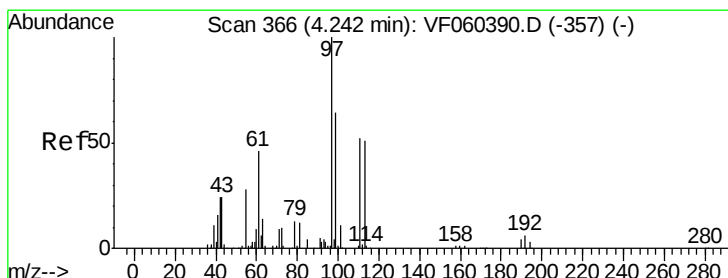
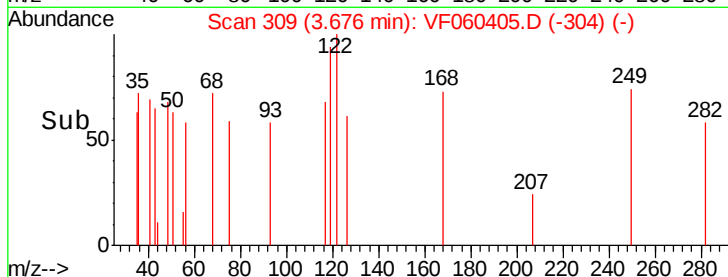
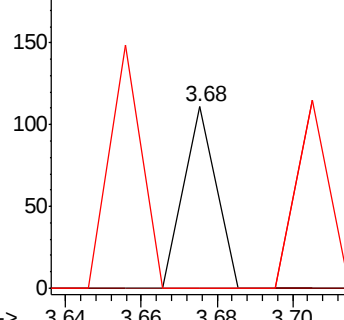
84 0.0 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 84.00 (83.70 to 84.70): VF0



#32

1,1,1-Trichloroethane

Concen: 37.323 ug/l

RT: 4.04 min Scan# 346

Delta R.T. -0.20 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

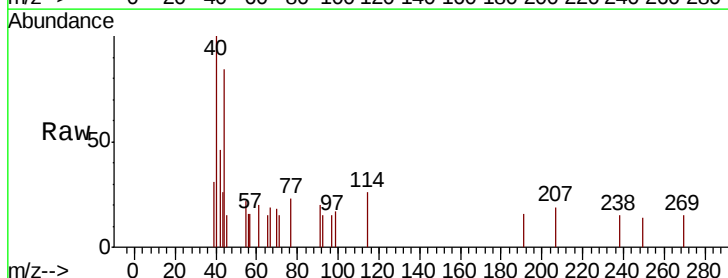
Tgt Ion: 97 Resp: 64

Ion Ratio Lower Upper

97 100

99 114.8 51.0 76.4#

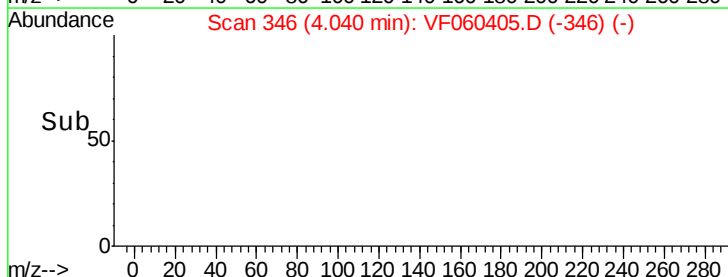
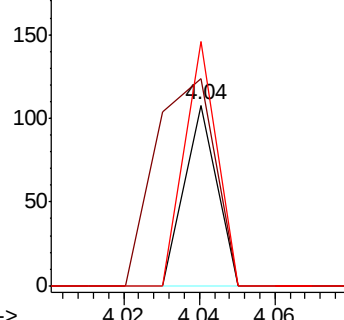
61 135.2 37.5 56.3#

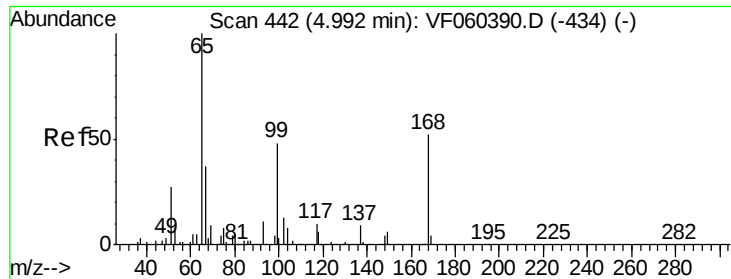


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 80.341 ug/l

RT: 4.77 min Scan# 420

Delta R.T. -0.22 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

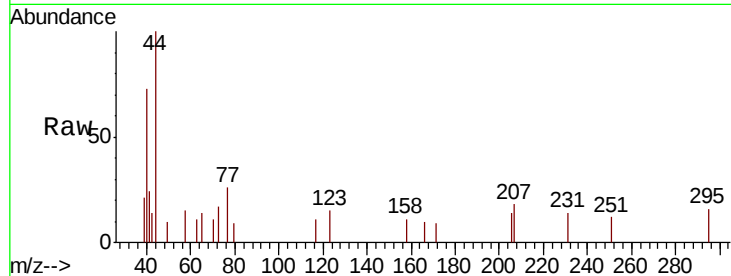
HC-SOIL-1RE

Tot Ion: 65 Resp: 88

Ion Ratio Lower Upper

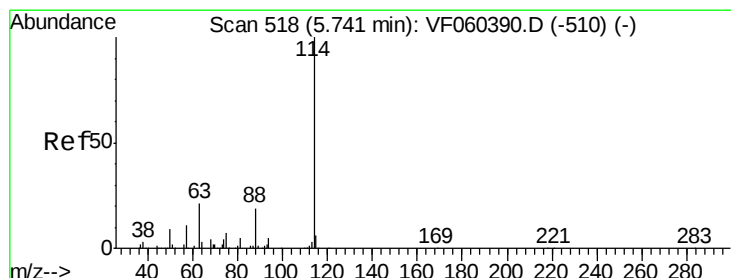
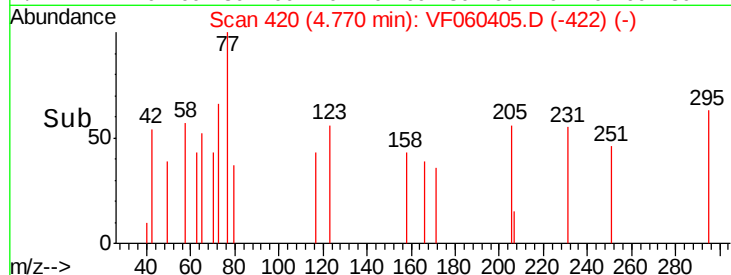
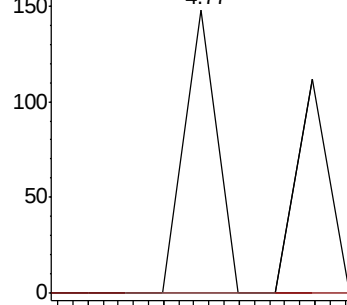
65 100

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



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.27 min Scan# 471

Delta R.T. -0.47 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

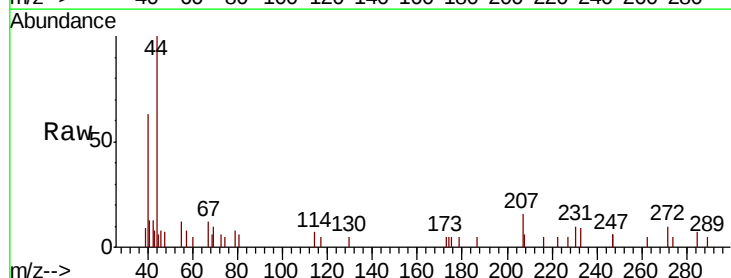
Tgt Ion: 114 Resp: 98

Ion Ratio Lower Upper

114 100

63 0.0 0.0 42.2

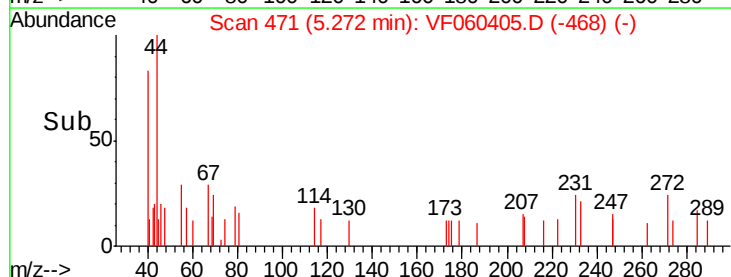
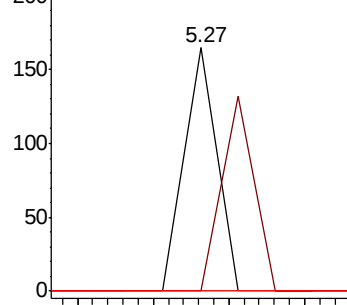
88 0.0 0.0 38.8

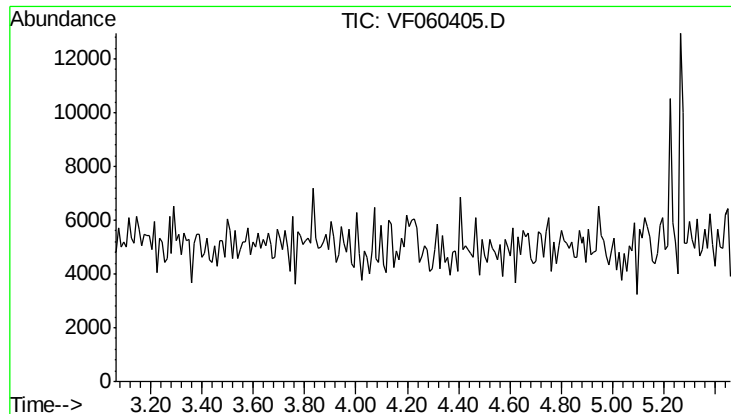


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

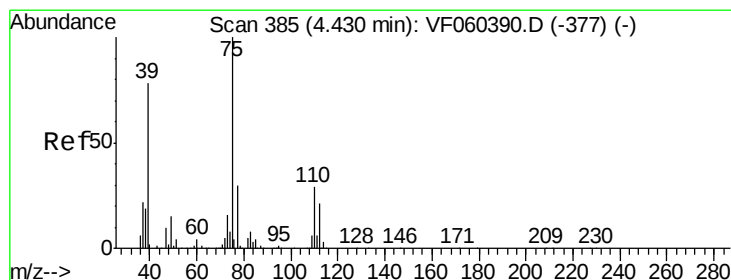
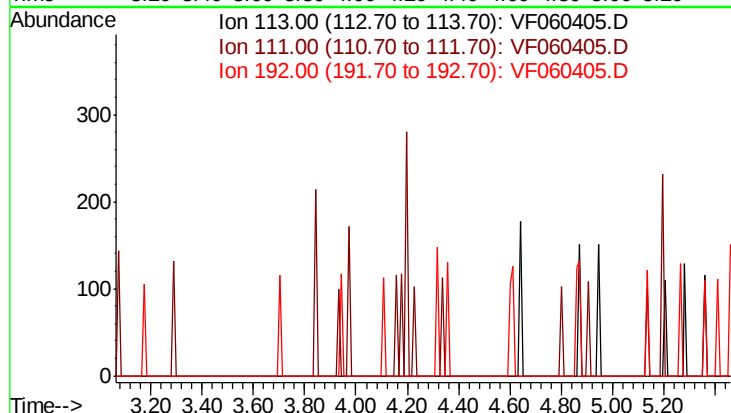




#35
 Dibromofluoromethane
 Concen: 0.000 ug/l
 Expected RT: 4.26 min
 Lab File: VF060405.D
 Acq: 2 Oct 2018 16:36

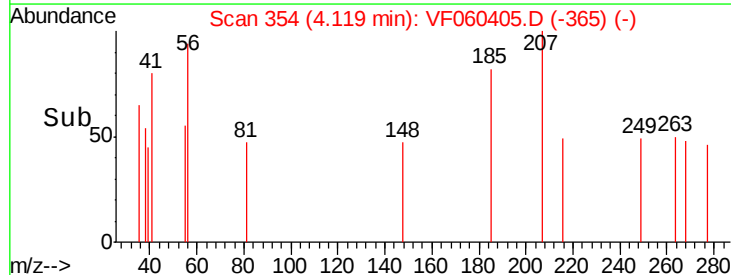
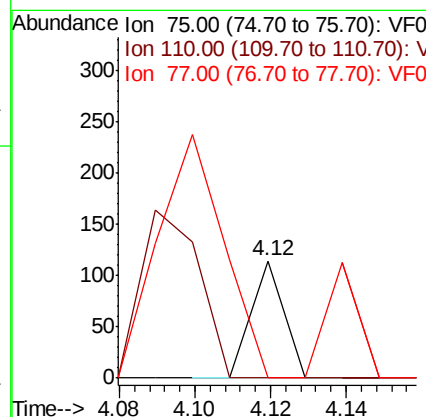
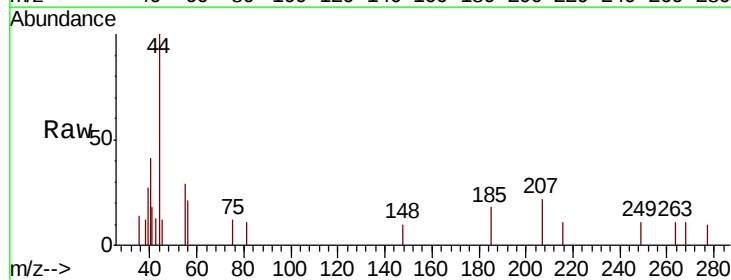
Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-1RE

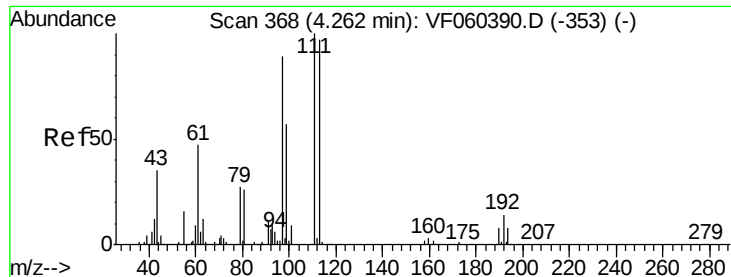
Tot Ion: 113
 Sig Exp Ratio
 113 100
 111 102.9
 192 14.7



#36
 1,1-Dichloropropene
 Concen: 55.452 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. -0.31 min
 Lab File: VF060405.D
 Acq: 2 Oct 2018 16:36

Tgt Ion: 75 Resp: 67
 Ion Ratio Lower Upper
 75 100
 110 0.0 14.5 43.6#
 77 0.0 24.3 36.5#

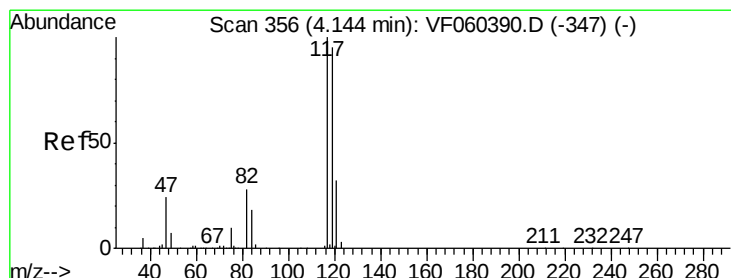
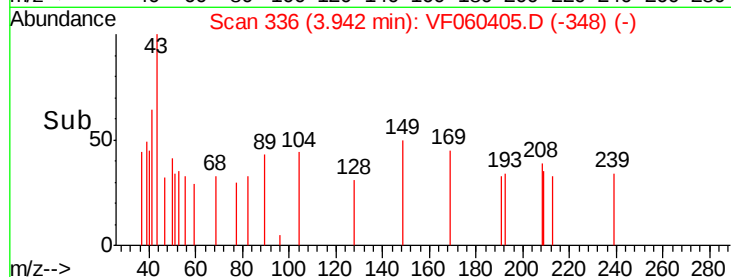
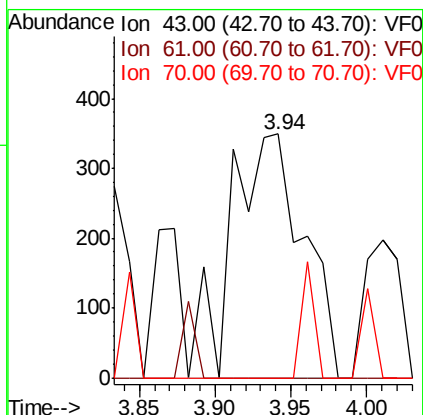
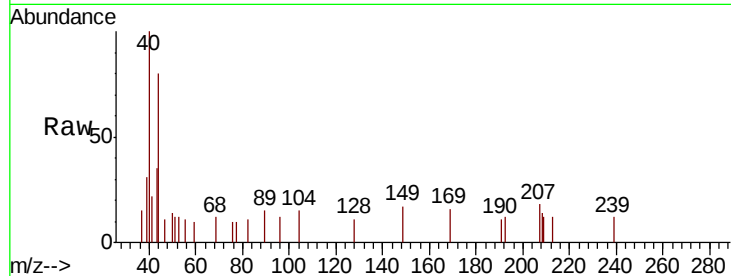




#37
Ethyl Acetate
Concen: 2526.518 ug/l
RT: 3.94 min Scan# 336
Delta R.T. -0.32 min
Lab File: VF060405.D
Acq: 2 Oct 2018 16:36

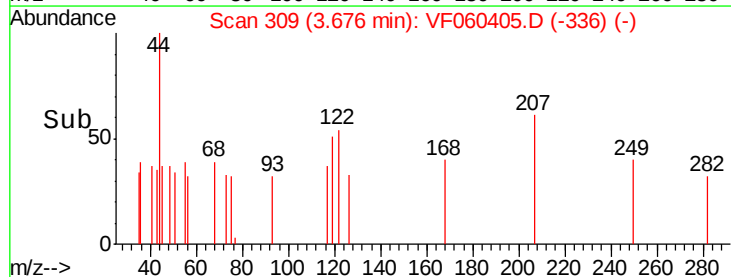
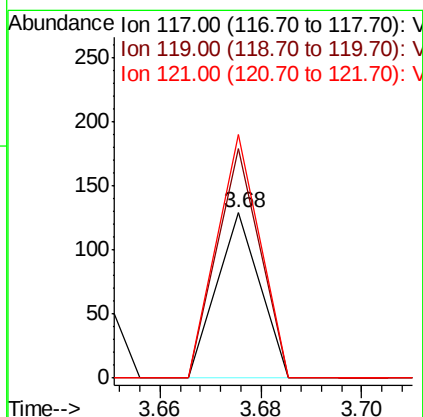
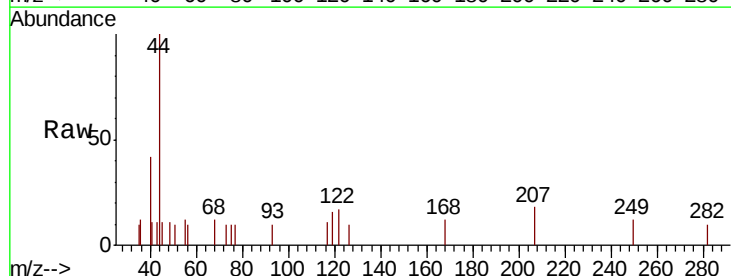
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-1RE

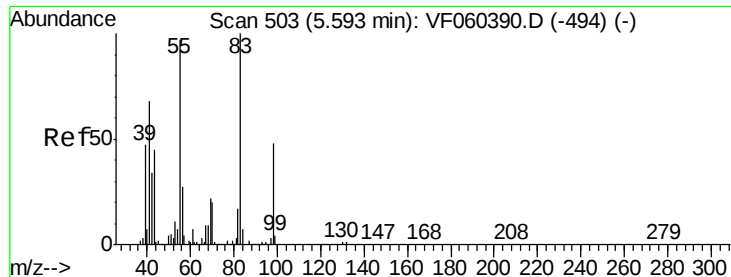
Tot Ion: 43 Resp: 1169
Ion Ratio Lower Upper
43 100
61 0.0 105.1 157.7#
70 0.0 8.0 12.0#



#38
Carbon Tetrachloride
Concen: 51.675 ug/l
RT: 3.68 min Scan# 309
Delta R.T. -0.47 min
Lab File: VF060405.D
Acq: 2 Oct 2018 16:36

Tgt Ion: 117 Resp: 76
Ion Ratio Lower Upper
117 100
119 138.8 75.5 113.3#
121 147.3 25.4 38.0#

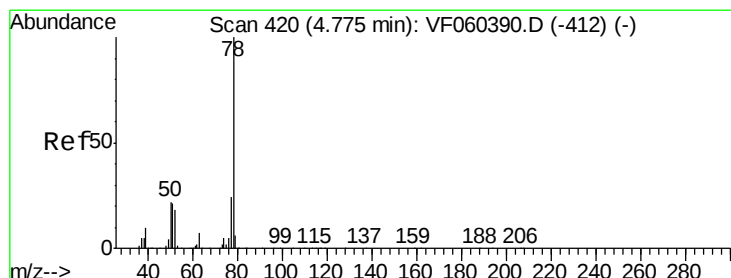
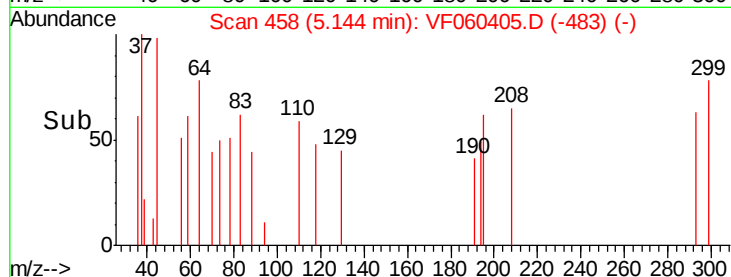
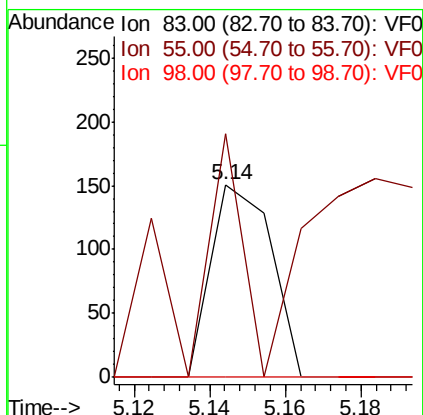
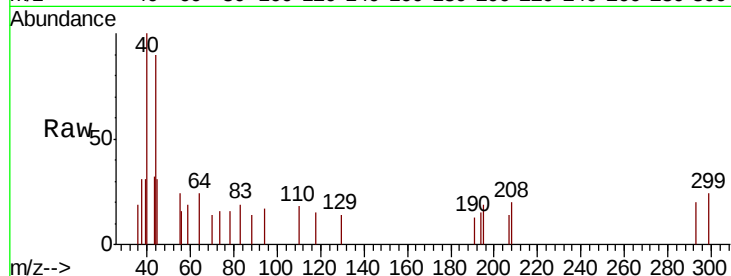




#39
Methvlcvclohexane
Concen: 140.142 ug/l
RT: 5.14 min Scan# 458
Delta R.T. -0.45 min
Lab File: VF060405.D
Acq: 2 Oct 2018 16:36

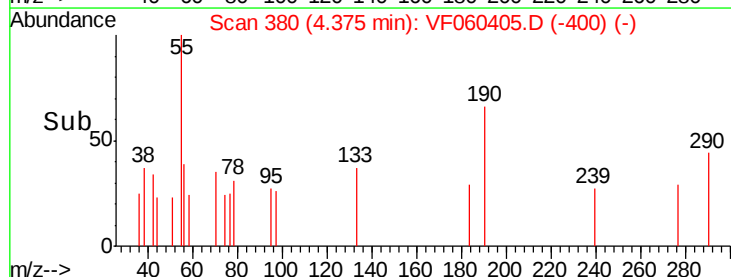
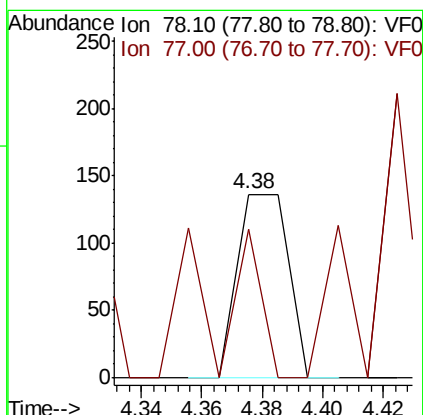
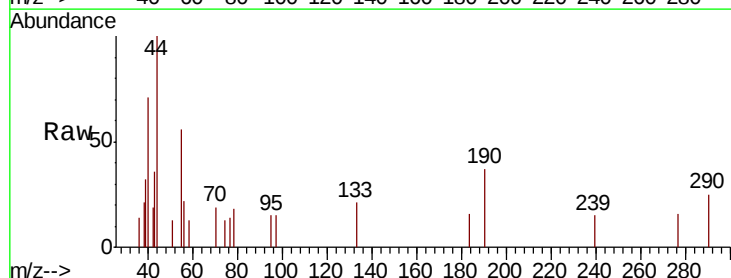
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-1RE

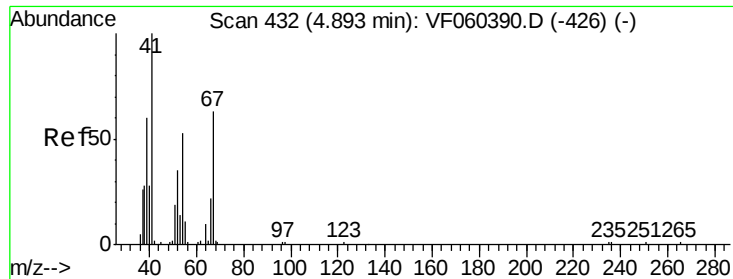
Tot Ion: 83 Resp: 166
Ion Ratio Lower Upper
83 100
55 126.5 77.5 116.3#
98 0.0 38.7 58.1#



#40
Benzene
Concen: 67.121 ug/l
RT: 4.38 min Scan# 380
Delta R.T. -0.40 min
Lab File: VF060405.D
Acq: 2 Oct 2018 16:36

Tgt Ion: 78 Resp: 161
Ion Ratio Lower Upper
78 100
77 80.9 19.2 28.8#

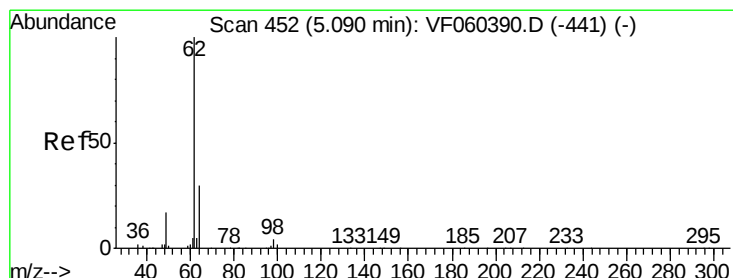
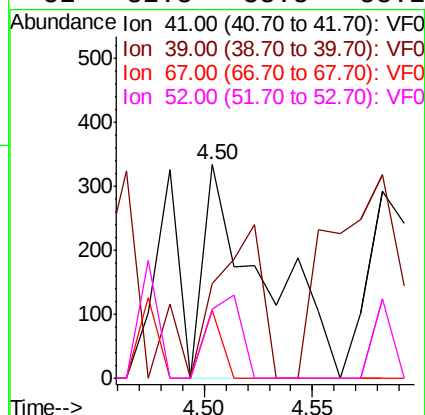
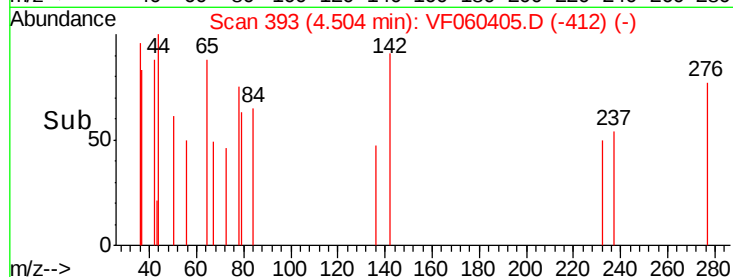
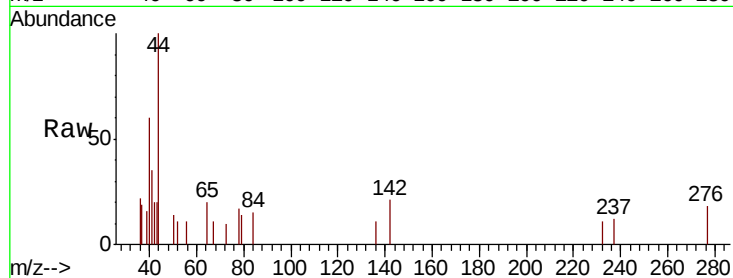




#41
Methacrylonitrile
Concen: 2637.273 ug/l
RT: 4.50 min Scan# 393
Delta R.T. -0.39 min
Lab File: VF060405.D
Acq: 2 Oct 2018 16:36

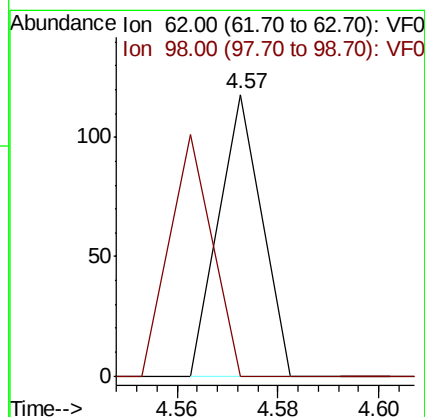
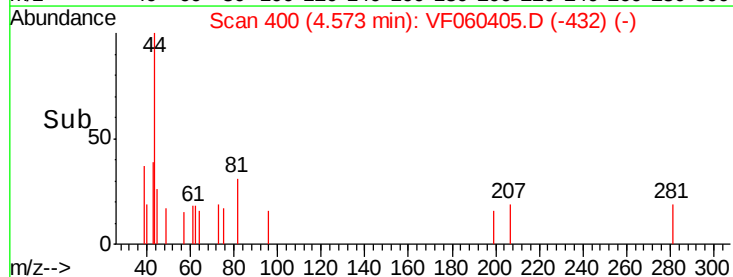
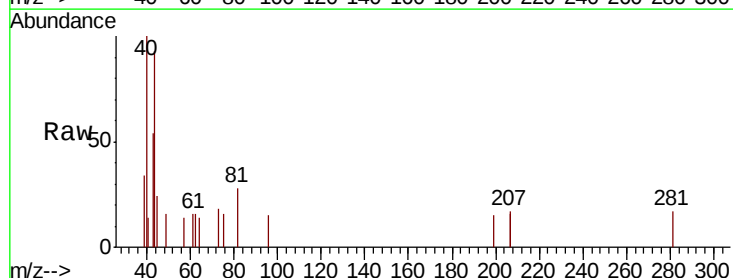
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-1RE

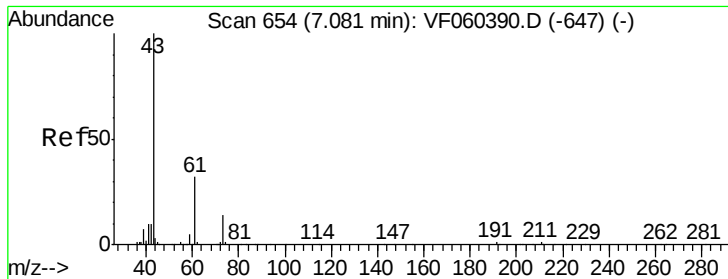
Tot Ion: 41 Resp: 647
Ion Ratio Lower Upper
41 100
39 44.6 55.0 82.4#
67 32.0 49.6 74.4#
52 32.3 38.8 58.2#



#42
1,2-Dichloroethane
Concen: 61.171 ug/l
RT: 4.57 min Scan# 400
Delta R.T. -0.52 min
Lab File: VF060405.D
Acq: 2 Oct 2018 16:36

Tgt Ion: 62 Resp: 70
Ion Ratio Lower Upper
62 100
98 0.0 0.0 11.2



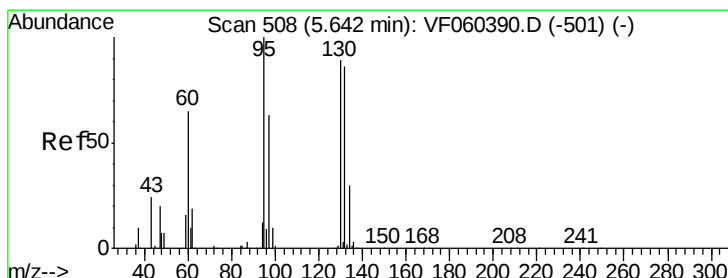
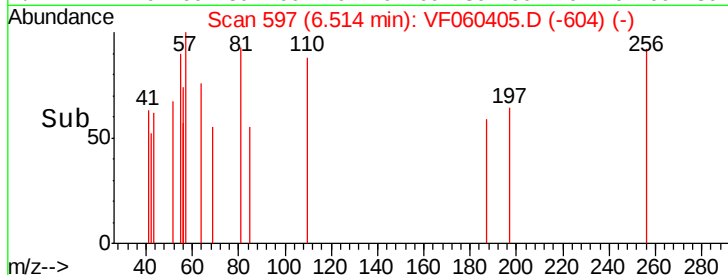
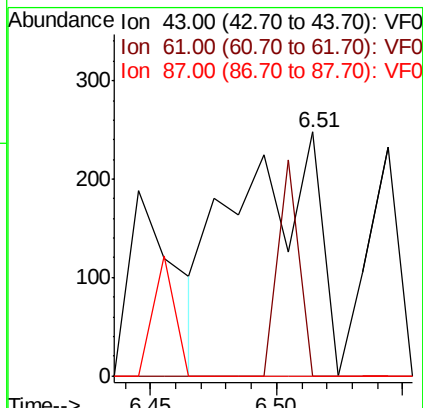
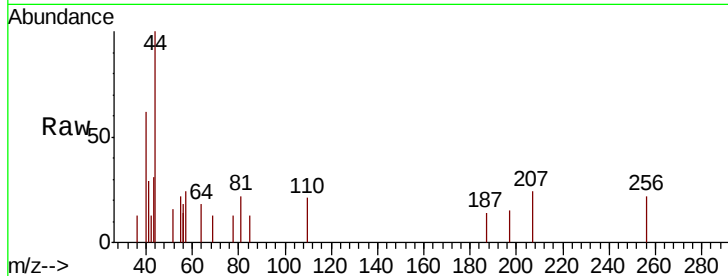


#43

Isopropyl Acetate
 Concen: 997.938 ug/l
 RT: 6.51 min Scan# 597
 Delta R.T. -0.57 min
 Lab File: VF060405.D
 Acq: 2 Oct 2018 16:36

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-1RE

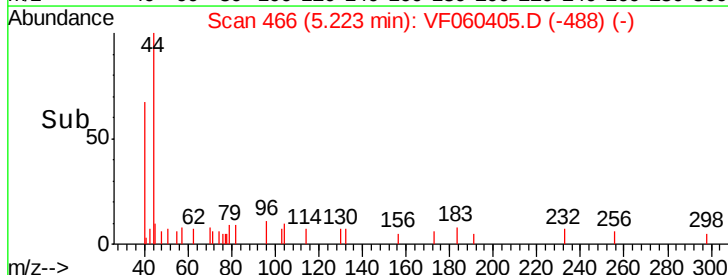
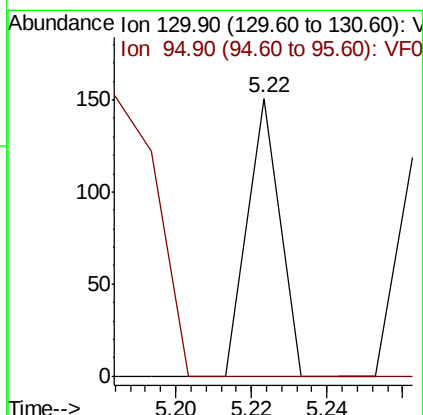
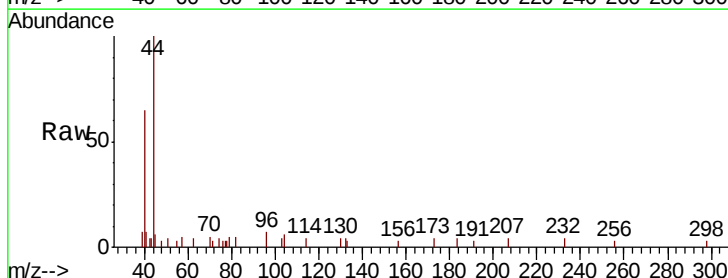
Tot Ion: 43 Resp: 558
 Ion Ratio Lower Upper
 43 100
 61 0.0 25.4 38.2#
 87 0.0 0.3 0.5#

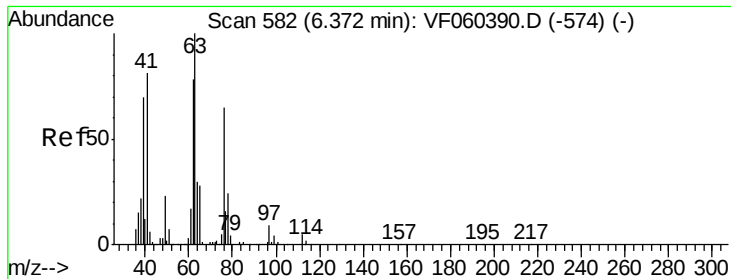


#44

Trichloroethene
 Concen: 115.640 ug/l
 RT: 5.22 min Scan# 466
 Delta R.T. -0.42 min
 Lab File: VF060405.D
 Acq: 2 Oct 2018 16:36

Tgt Ion:130 Resp: 89
 Ion Ratio Lower Upper
 130 100
 95 0.0 0.0 224.4





#45

1,2-Dichloropropane

Concen: 277.091 ug/l

RT: 5.88 min Scan# 533

Delta R.T. -0.49 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

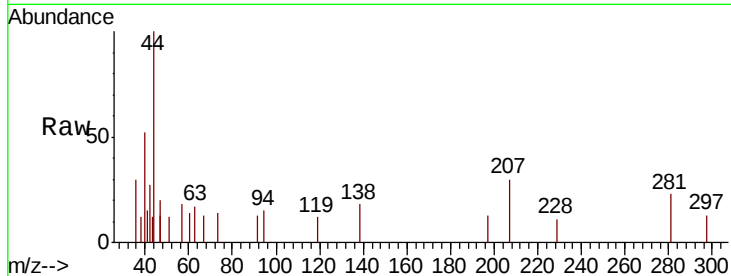
HC-SOIL-1RE

Tot Ion: 63 Resp: 177

Ion Ratio Lower Upper

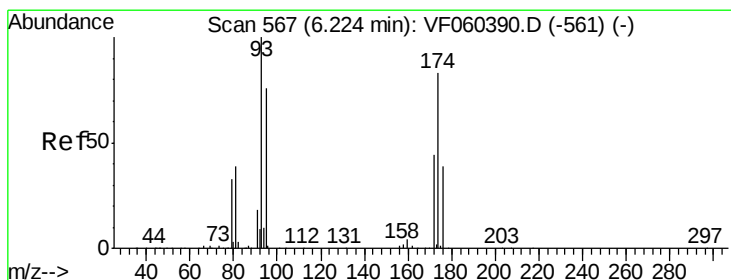
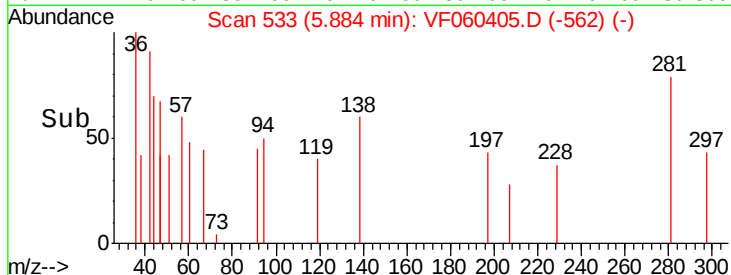
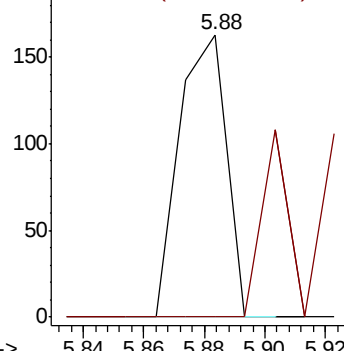
63 100

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



#46

Dibromomethane

Concen: 144.086 ug/l

RT: 5.74 min Scan# 518

Delta R.T. -0.49 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

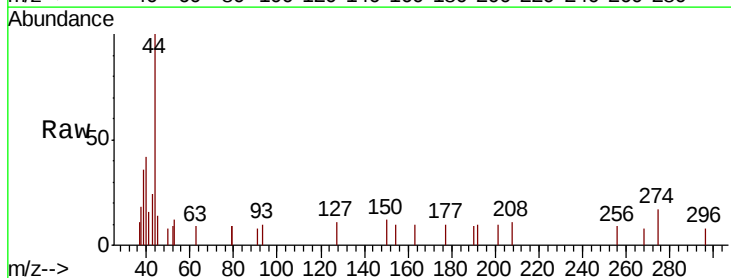
Tgt Ion: 93 Resp: 74

Ion Ratio Lower Upper

93 100

95 0.0 61.1 91.7#

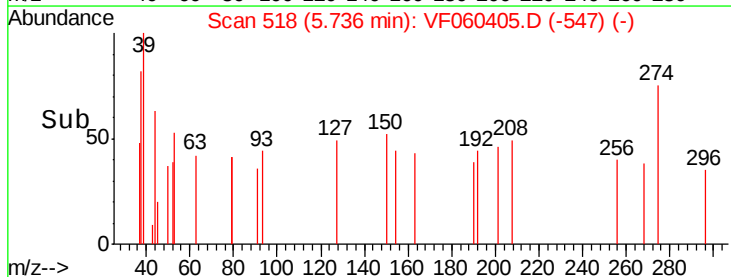
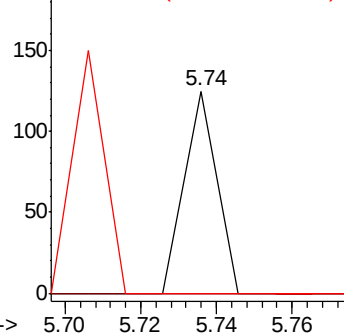
174 0.0 66.7 100.1#

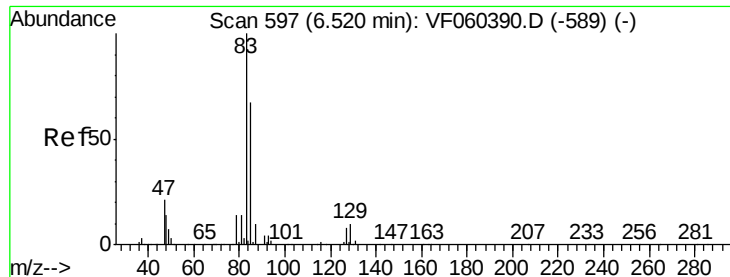


Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V





#47

Bromodichloromethane

Concen: 62.109 ug/l

RT: 5.85 min Scan# 530

Delta R.T. -0.67 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

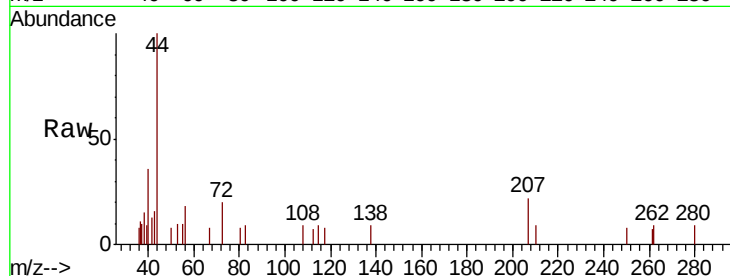
Tot Ion: 83 Resp: 79

Ion Ratio Lower Upper

83 100

85 0.0 53.2 79.8#

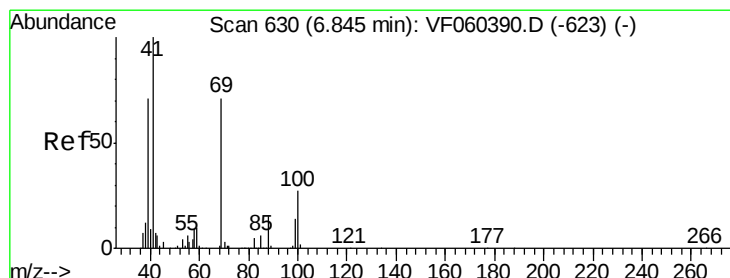
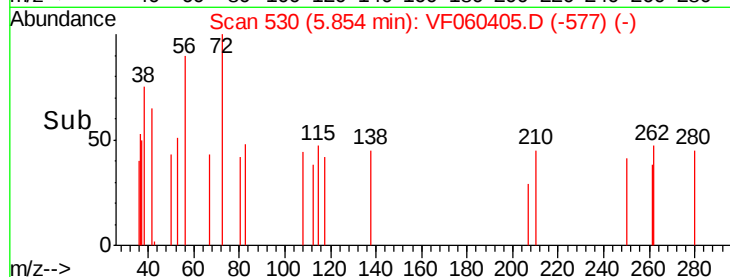
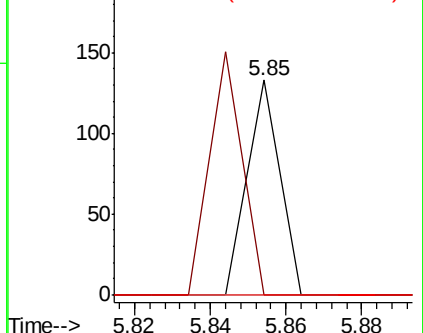
127 0.0 6.6 9.8#



Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V



#48

Methyl methacrylate

Concen: 847.082 ug/l

RT: 6.31 min Scan# 576

Delta R.T. -0.54 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

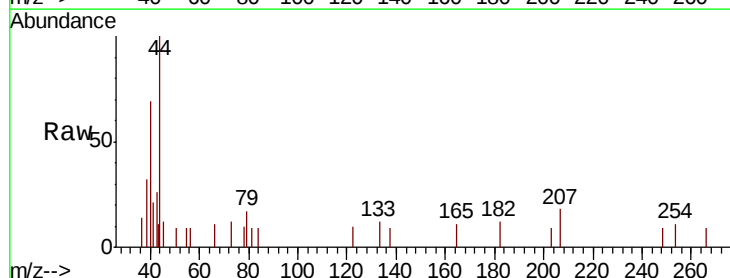
Tgt Ion: 41 Resp: 340

Ion Ratio Lower Upper

41 100

69 0.0 56.3 84.5#

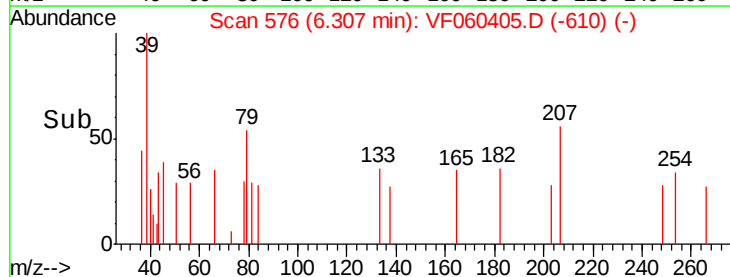
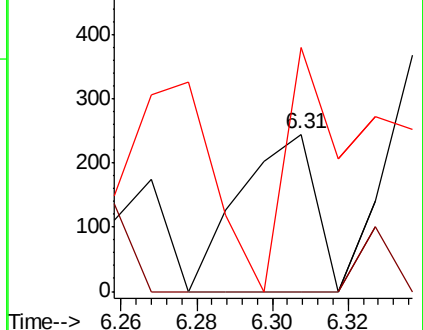
39 154.7 56.9 85.3#

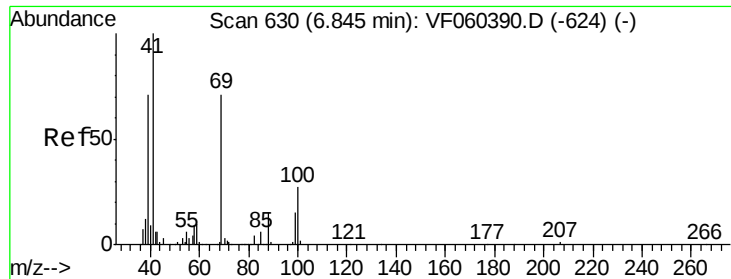


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#49

1,4-Dioxane

Concen: 32651.702 ug/l

RT: 6.24 min Scan# 569

Delta R.T. -0.61 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

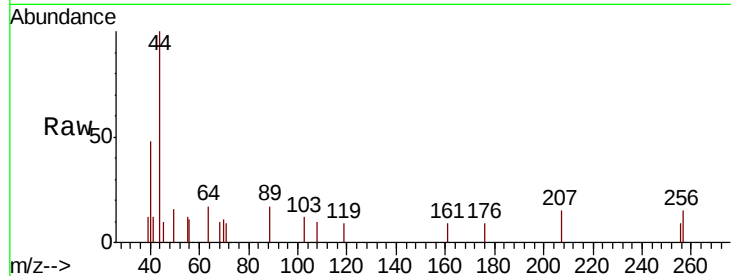
Tot Ion: 88 Resp: 113

Ion Ratio Lower Upper

88 100

43 0.0 38.3 57.5#

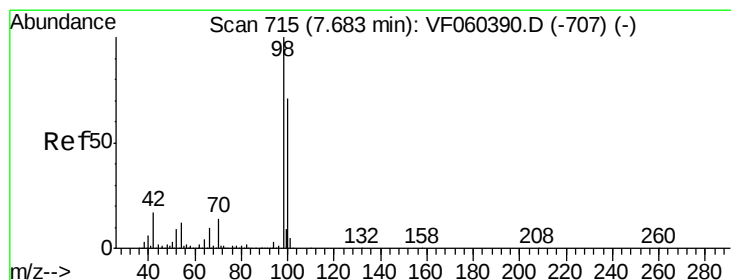
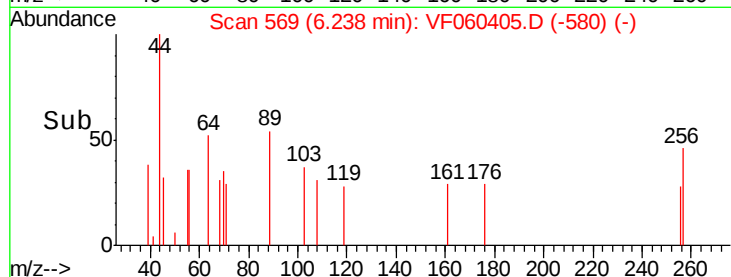
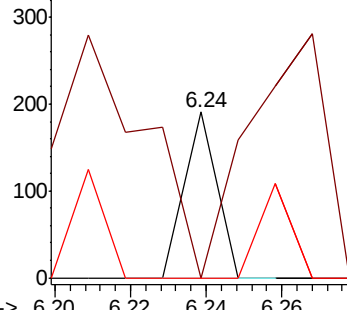
58 0.0 47.4 71.2#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 43.222 ug/l

RT: 7.11 min Scan# 657

Delta R.T. -0.58 min

Lab File: VF060405.D

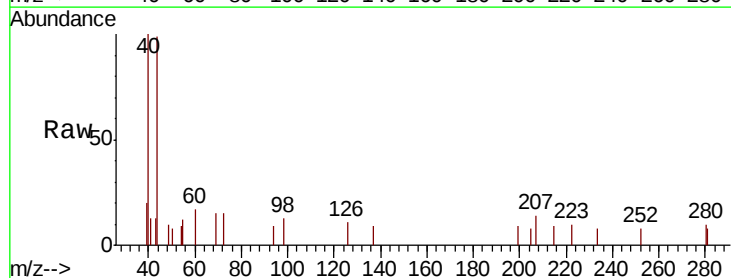
Acq: 2 Oct 2018 16:36

Tgt Ion: 98 Resp: 98

Ion Ratio Lower Upper

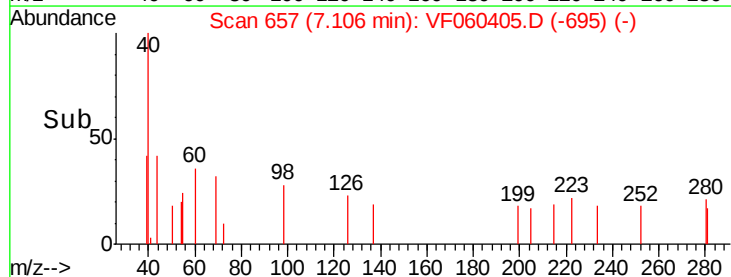
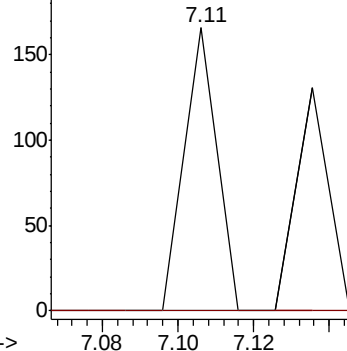
98 100

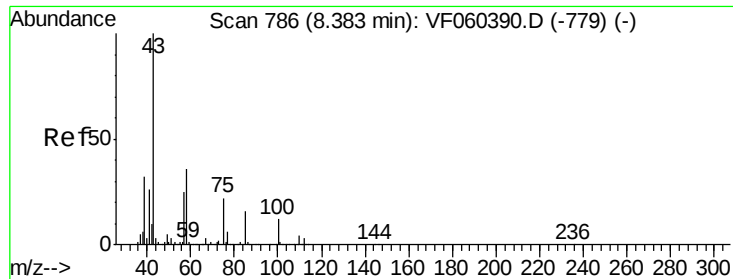
100 0.0 56.5 84.7#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 889.381 ug/l

RT: 7.70 min Scan# 717

Delta R.T. -0.69 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleID :

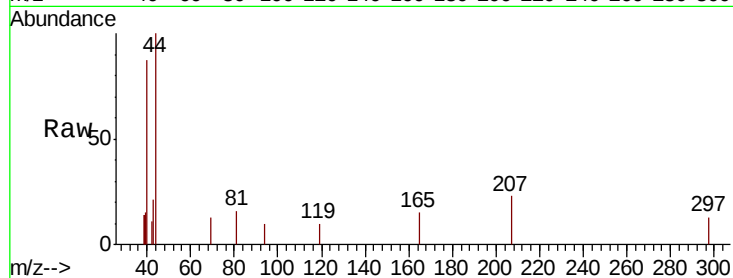
HC-SOIL-1RE

Tot Ion: 43 Resp: 354

Ion Ratio Lower Upper

43 100

58 0.0 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

7.70

200

150

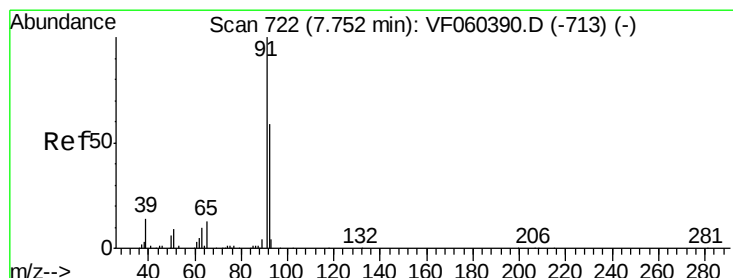
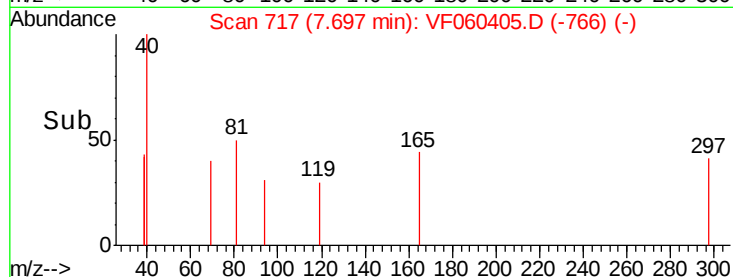
100

50

0

7.66 7.68 7.70 7.72

Time-->



#52

Toluene

Concen: 36.828 ug/l

RT: 7.19 min Scan# 666

Delta R.T. -0.56 min

Lab File: VF060405.D

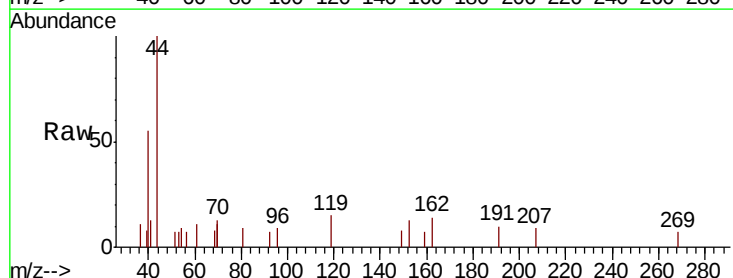
Acq: 2 Oct 2018 16:36

Tgt Ion: 92 Resp: 60

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

150

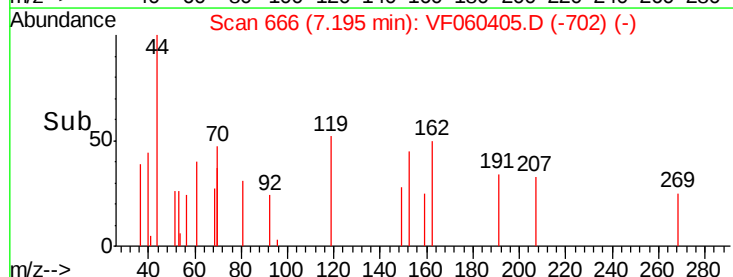
100

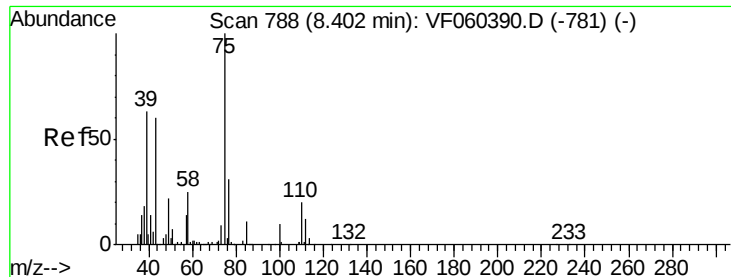
50

0

7.16 7.18 7.20 7.22

Time-->





#53

t-1,3-Dichloropropene

Concen: 73.232 ug/l

RT: 7.72 min Scan# 719

Delta R.T. -0.69 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

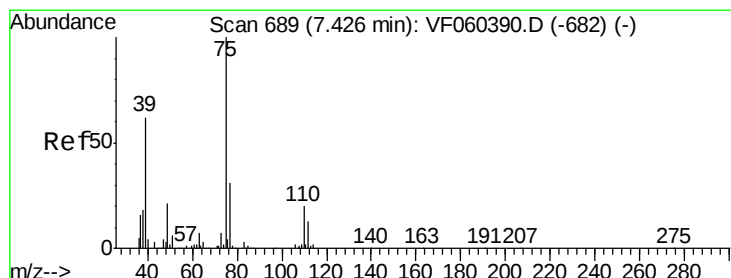
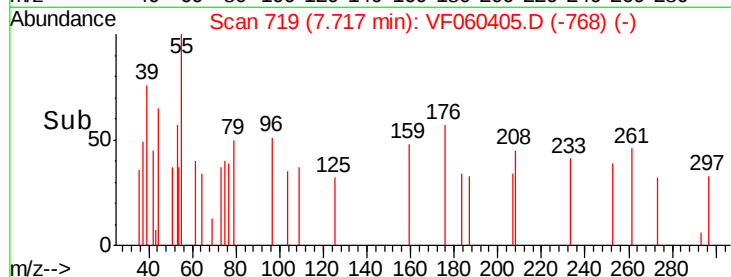
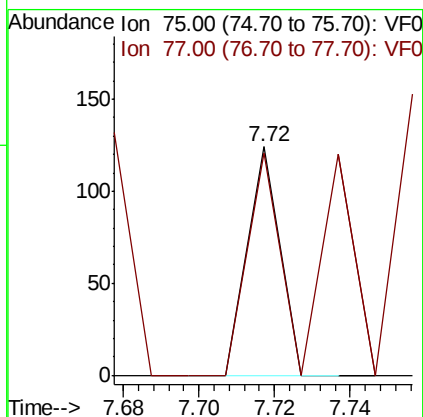
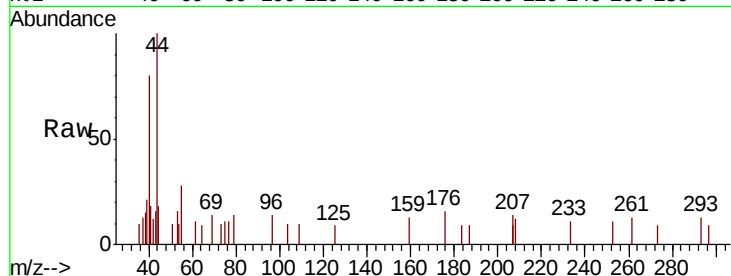
HC-SOIL-1RE

Tot Ion: 75 Resp: 73

Ion Ratio Lower Upper

75 100

77 97.6 24.6 36.8#



#54

cis-1,3-Dichloropropene

Concen: 66.952 ug/l

RT: 6.80 min Scan# 626

Delta R.T. -0.63 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

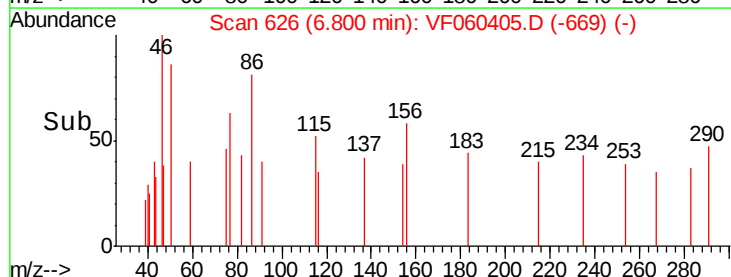
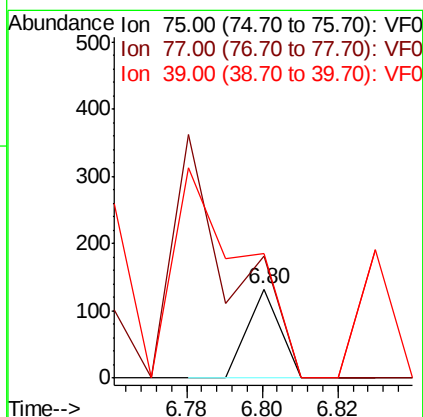
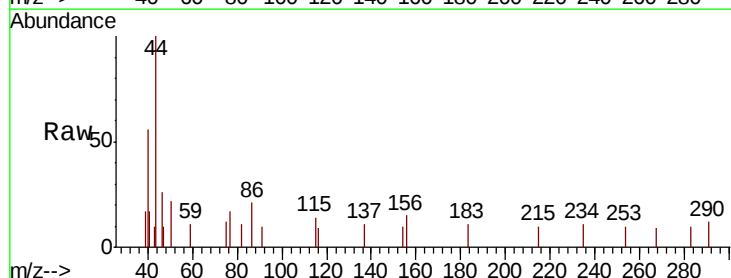
Tgt Ion: 75 Resp: 78

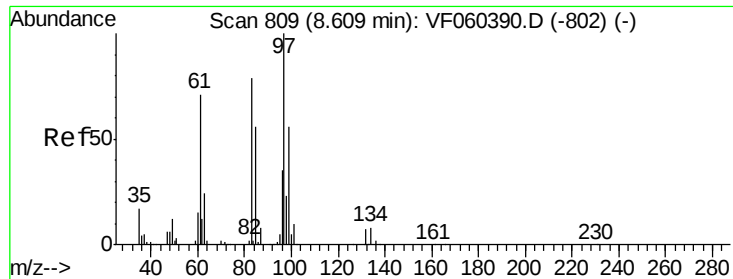
Ion Ratio Lower Upper

75 100

77 137.1 25.2 37.8#

39 140.9 49.7 74.5#





#55

1,1,2-Trichloroethane

Concen: 141.360 ug/l

RT: 7.91 min Scan# 739

Delta R.T. -0.70 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

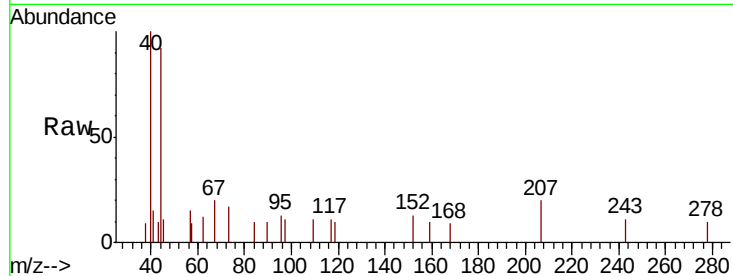
MSVOA_F

ClientSampleId :

HC-SOIL-1RE

Tot Ion: 97 Resp: 73

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#

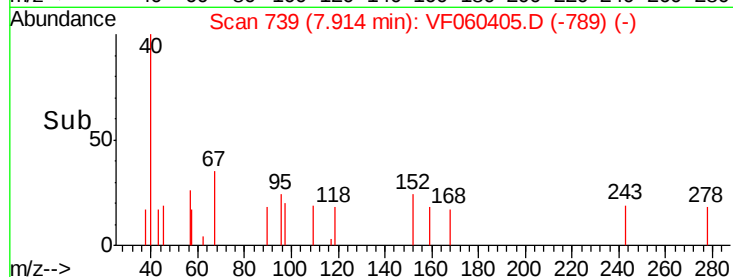
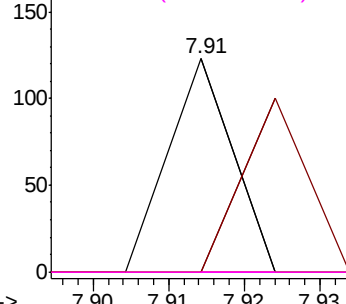


Abundance Ion 97.00 (96.70 to 97.70): VF0

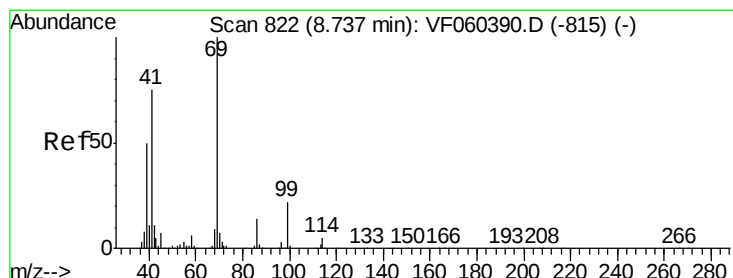
Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



Time-->



#56

Ethyl methacrylate

Concen: 100.543 ug/l

RT: 8.02 min Scan# 750

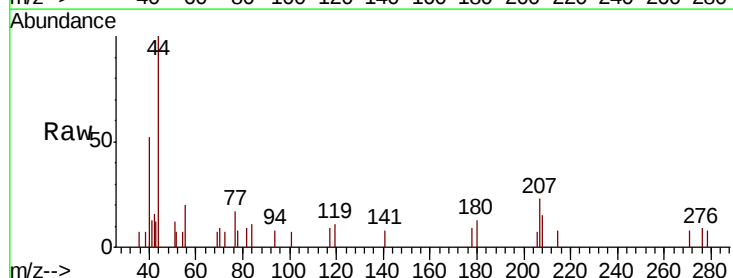
Delta R.T. -0.71 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Tgt Ion: 69 Resp: 59

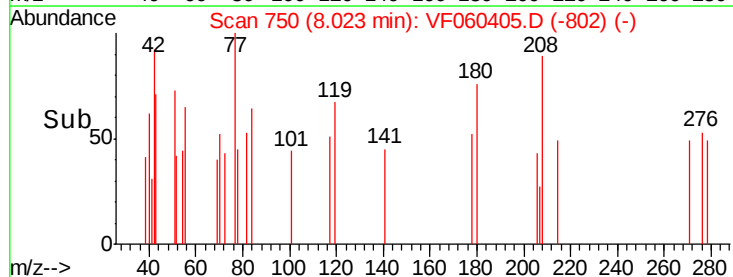
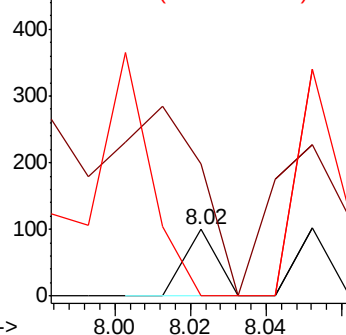
Ion	Ratio	Lower	Upper
69	100		
41	198.0	60.2	90.4#
39	0.0	40.2	60.2#



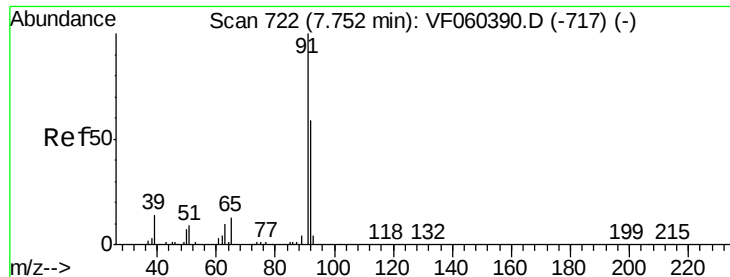
Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 5021.689 ug/l

RT: 7.17 min Scan# 663

Delta R.T. -0.59 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampled :

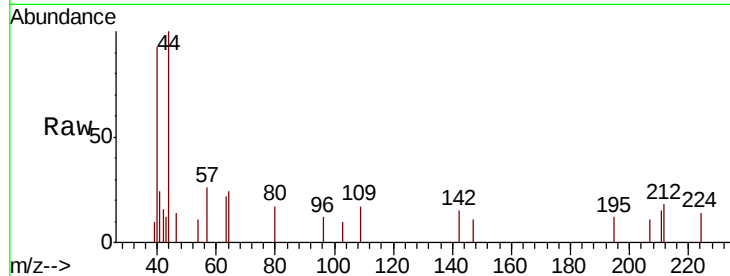
HC-SOIL-1RE

Tot Ion: 63 Resp: 301

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

7.17

200

150

100

50

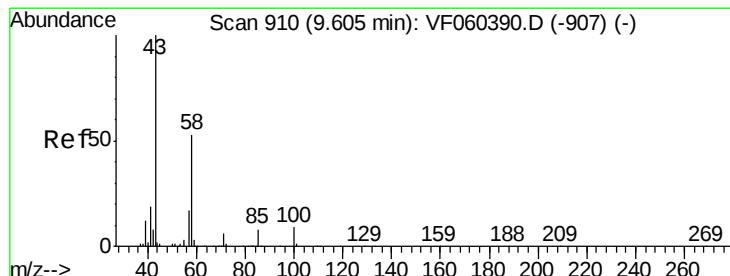
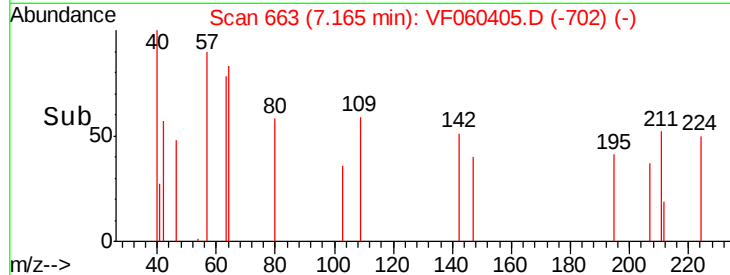
0

7.10

7.15

7.20

Time-->



#59

2-Hexanone

Concen: 2089.404 ug/l

RT: 8.80 min Scan# 829

Delta R.T. -0.80 min

Lab File: VF060405.D

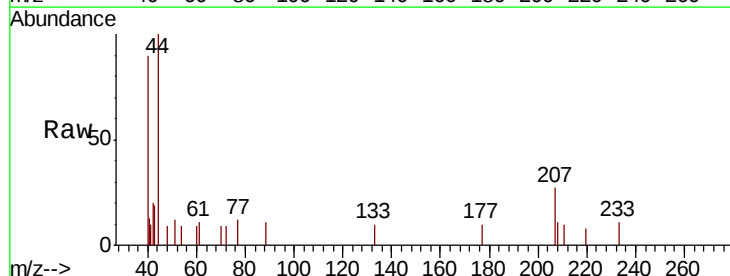
Acq: 2 Oct 2018 16:36

Tgt Ion: 43 Resp: 610

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

600

500

400

300

200

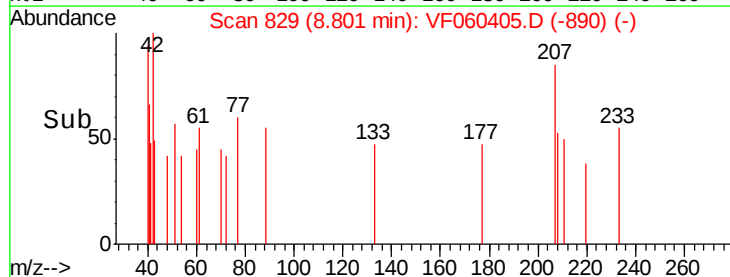
100

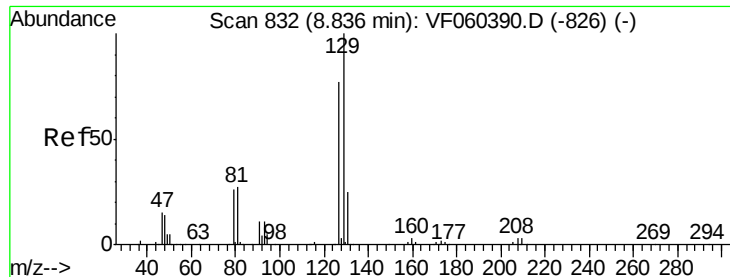
0

8.80

8.85

Time-->





#60

Dibromochloromethane

Concen: 99.031 ug/l

RT: 8.17 min Scan# 765

Delta R.T. -0.67 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampled :

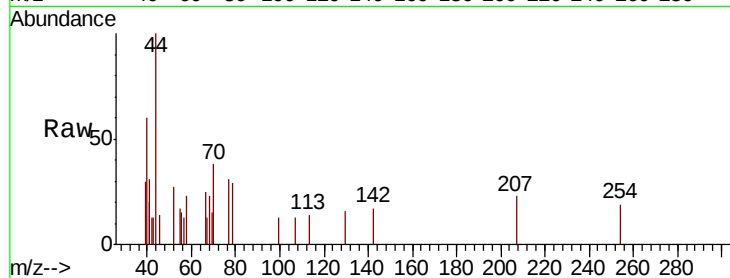
HC-SOIL-1RE

Tot Ion:129 Resp: 77

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

8.17

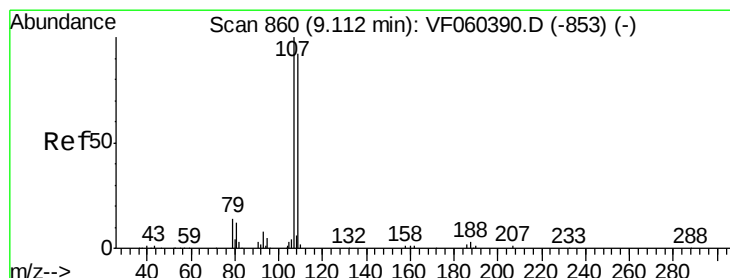
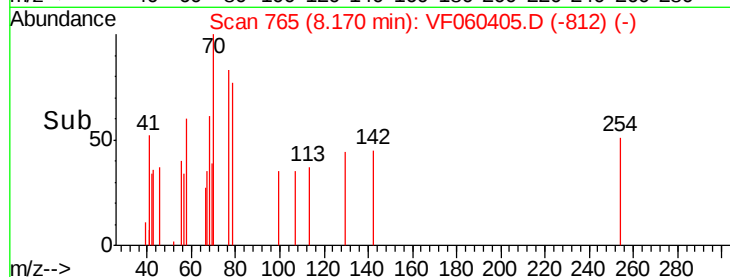
100

50

0

8.14 8.16 8.18 8.20

Time-->



#61

1,2-Dibromoethane

Concen: 120.340 ug/l

RT: 8.40 min Scan# 788

Delta R.T. -0.71 min

Lab File: VF060405.D

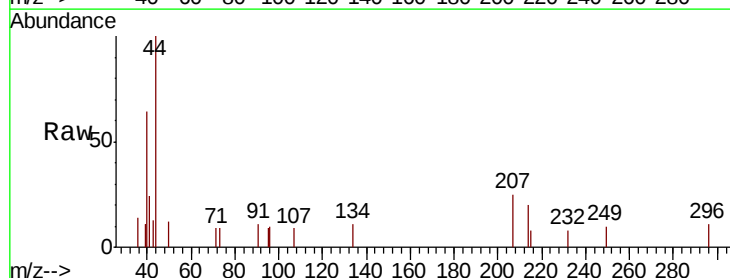
Acq: 2 Oct 2018 16:36

Tgt Ion:107 Resp: 68

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

8.40

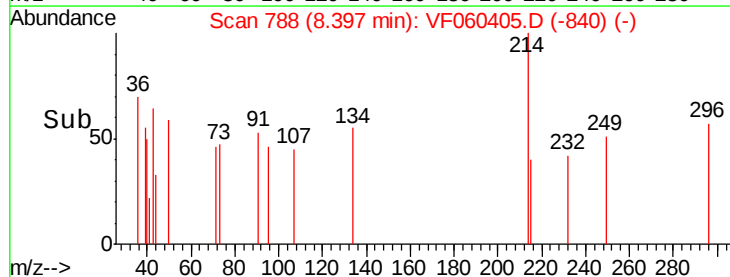
100

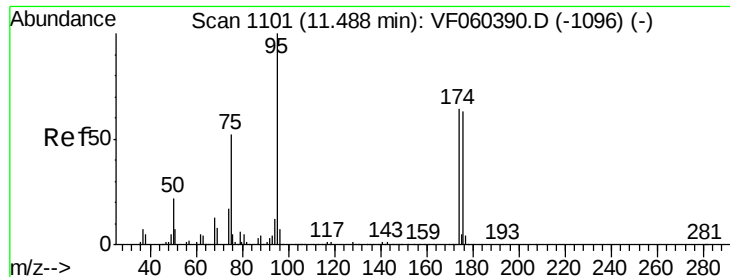
50

0

8.36 8.38 8.40 8.42

Time-->





#62

4-Bromofluorobenzene

Concen: 291.710 ug/l

RT: 10.57 min Scan# 1008

Delta R.T. -0.92 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

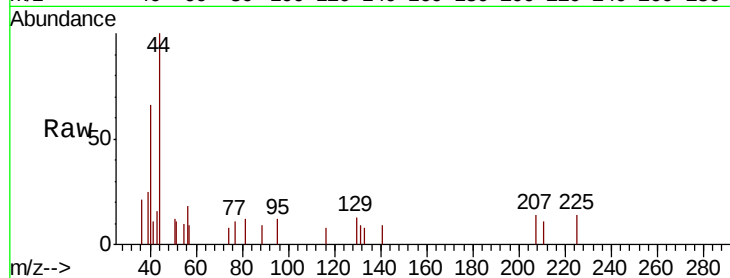
Tot Ion: 95 Resp: 302

Ion Ratio Lower Upper

95 100

174 0.0 0.0 129.0

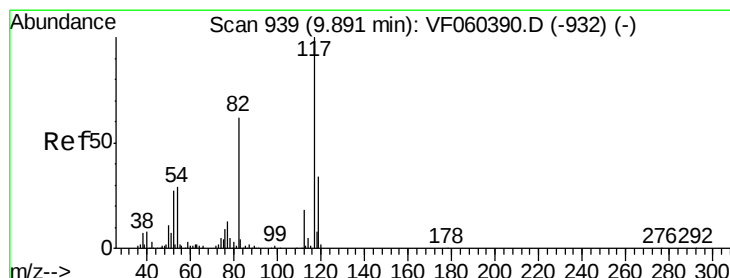
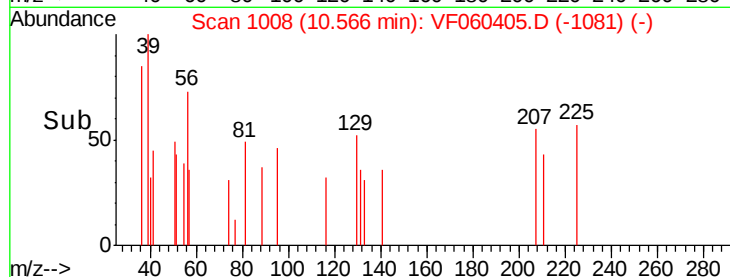
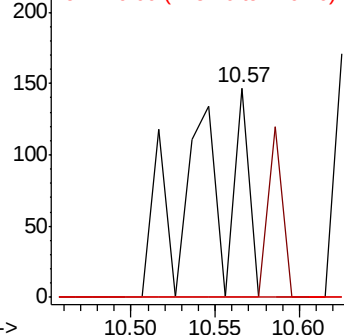
176 0.0 0.0 125.6



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: 9.22 min Scan# 871

Delta R.T. -0.68 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

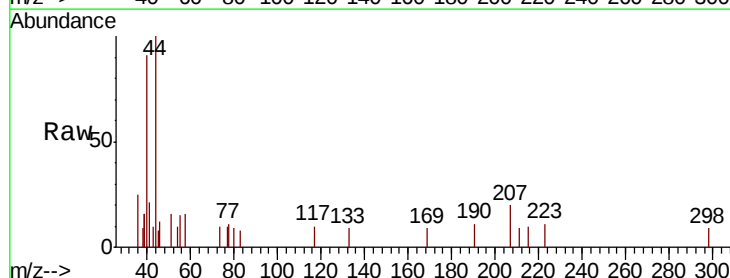
Tgt Ion: 117 Resp: 72

Ion Ratio Lower Upper

117 100

82 0.0 49.5 74.3#

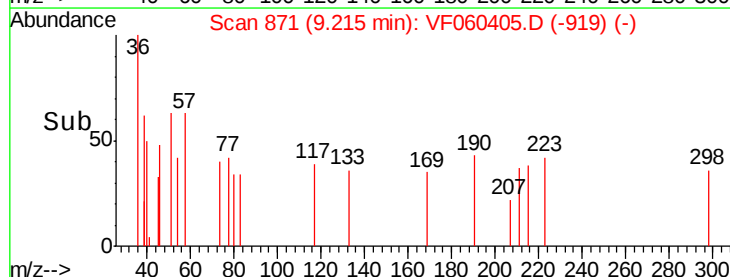
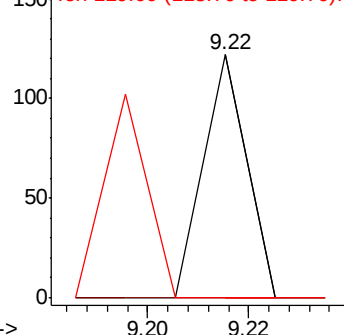
119 0.0 27.0 40.6#

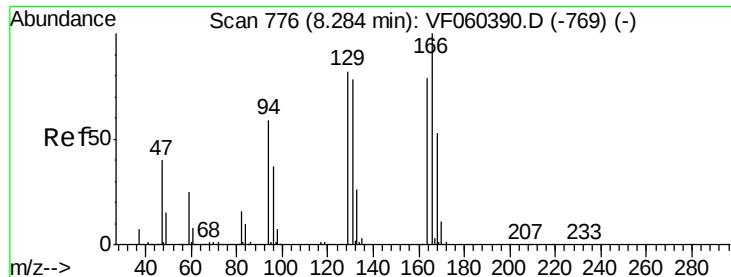


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#64

Tetrachloroethene

Concen: 120.554 ug/l

RT: 8.38 min Scan# 786

Delta R.T. 0.09 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

Tot Ion:164 Resp: 69

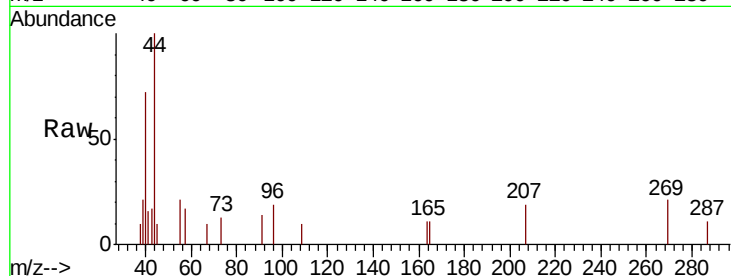
Ion Ratio Lower Upper

164 100

166 0.0 101.0 151.6#

129 0.0 82.5 123.7#

131 0.0 79.2 118.8#

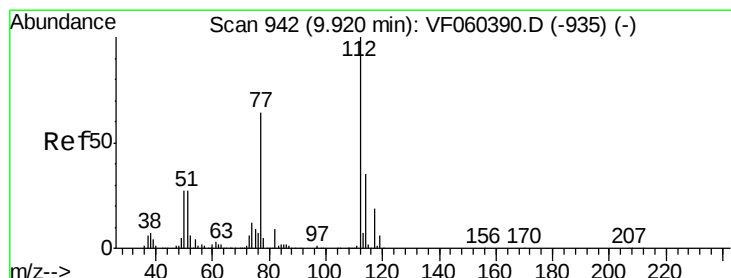
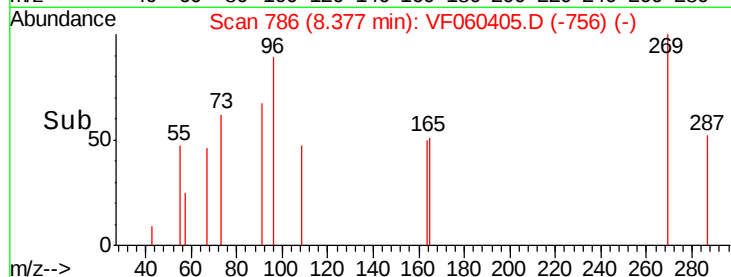
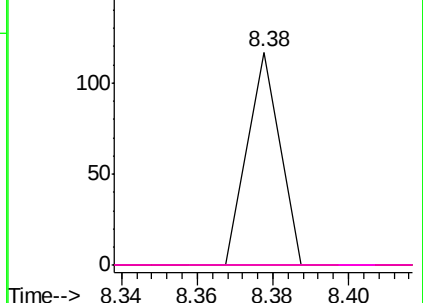


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#65

Chlorobenzene

Concen: 45.300 ug/l

RT: 9.93 min Scan# 944

Delta R.T. 0.01 min

Lab File: VF060405.D

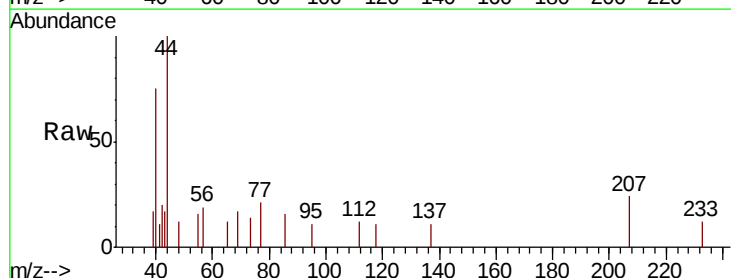
Acq: 2 Oct 2018 16:36

Tgt Ion:112 Resp: 67

Ion Ratio Lower Upper

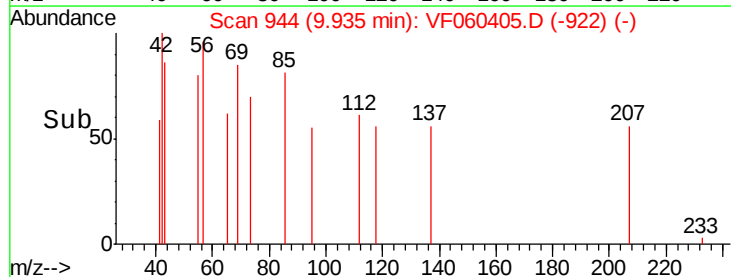
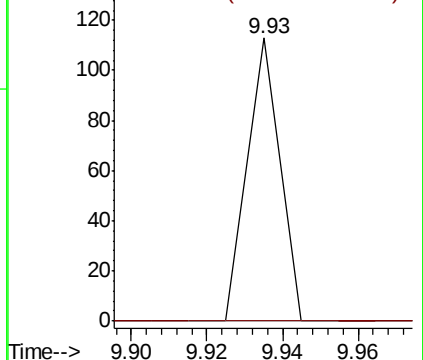
112 100

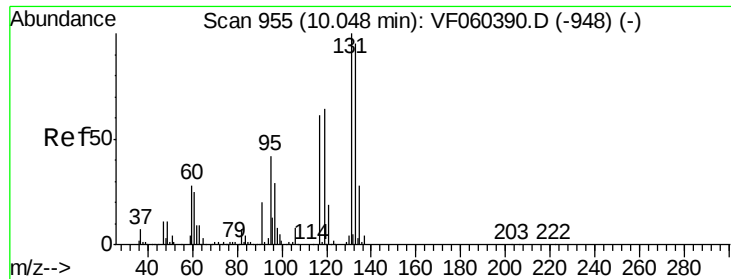
114 0.0 27.7 41.5#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V





#66

1,1,1,2-Tetrachloroethane

Concen: 96.006 ug/l

RT: 9.91 min Scan# 941

Delta R.T. -0.14 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

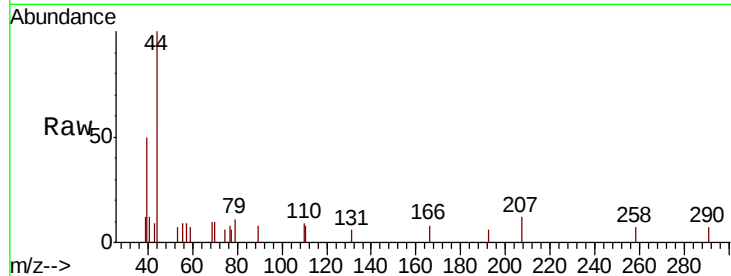
Tot Ion:131 Resp: 62

Ion Ratio Lower Upper

131 100

133 0.0 47.3 141.8#

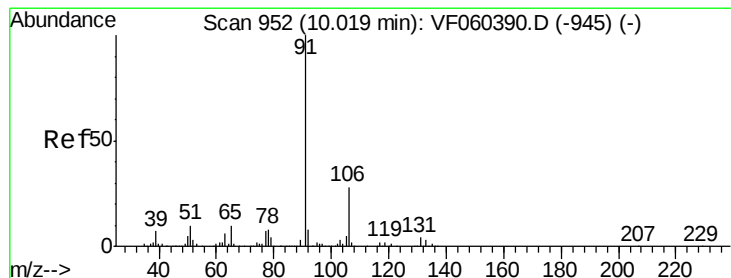
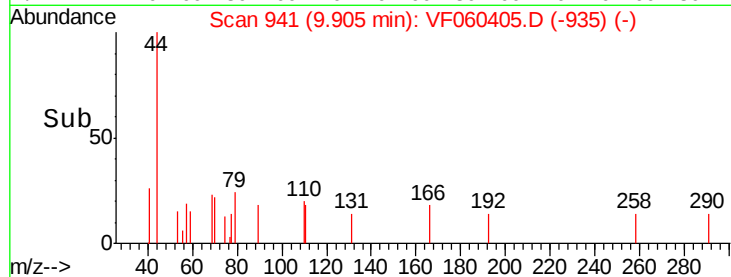
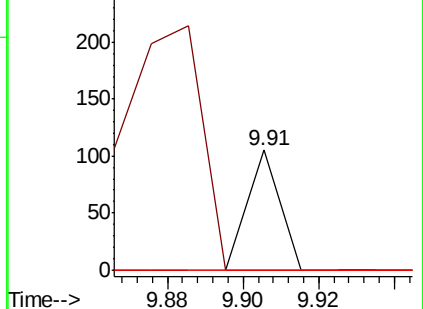
119 0.0 32.3 96.9#



Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V



#67

Ethyl Benzene

Concen: 31.292 ug/l

RT: 10.01 min Scan# 952

Delta R.T. -0.01 min

Lab File: VF060405.D

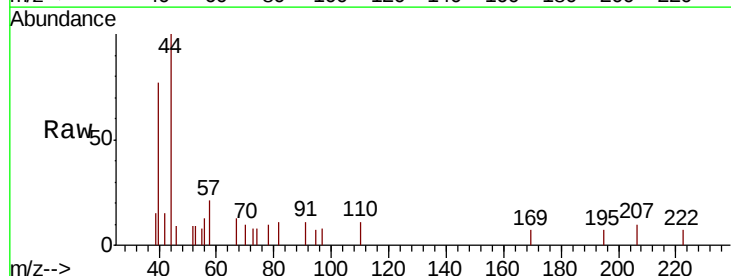
Acq: 2 Oct 2018 16:36

Tgt Ion: 91 Resp: 88

Ion Ratio Lower Upper

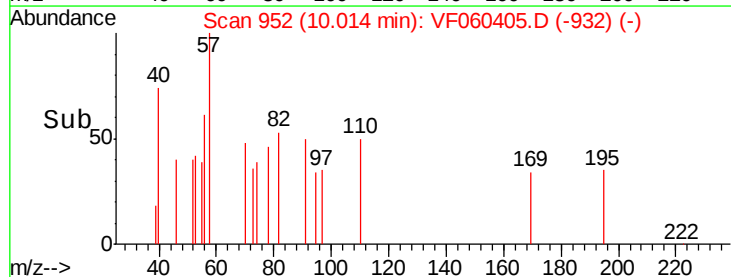
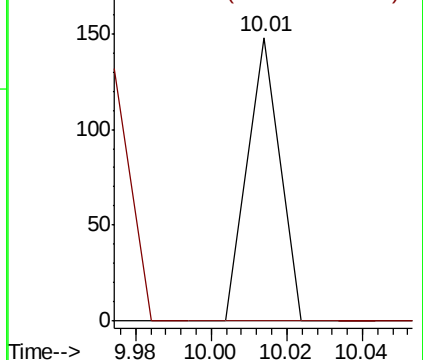
91 100

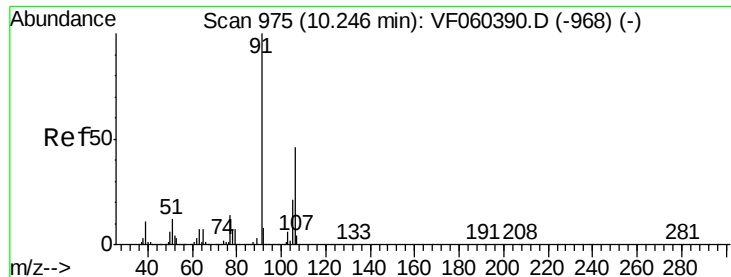
106 0.0 22.5 33.7#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xylenes

Concen: 75.512 ug/l

RT: 10.28 min Scan# 979

Delta R.T. 0.03 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

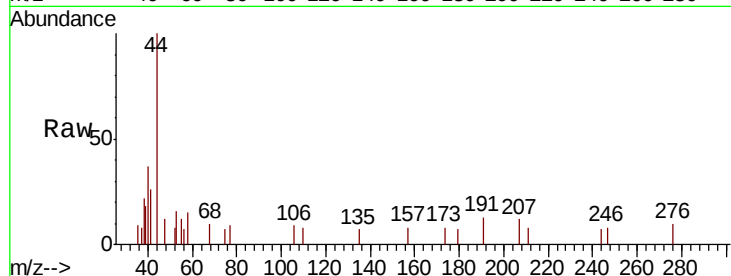
HC-SOIL-1RE

Tot Ion:106 Resp: 73

Ion Ratio Lower Upper

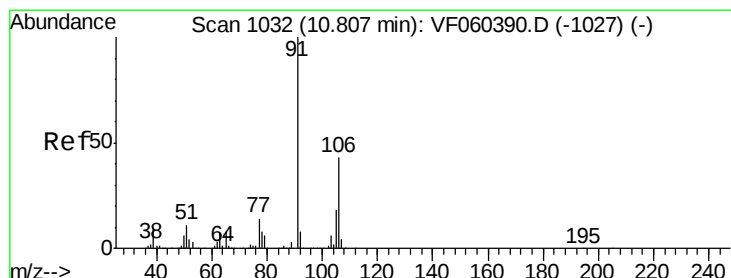
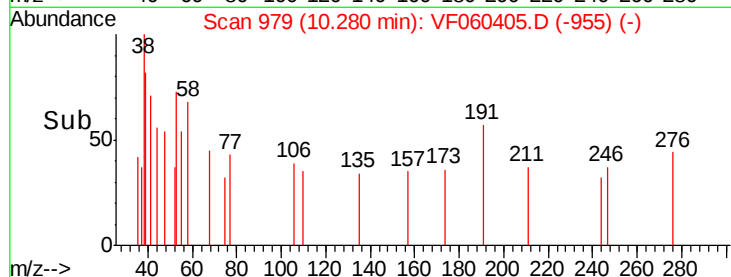
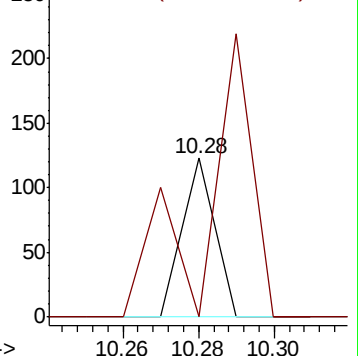
106 100

91 0.0 175.0 262.6#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 63.582 ug/l

RT: 10.83 min Scan# 1035

Delta R.T. 0.02 min

Lab File: VF060405.D

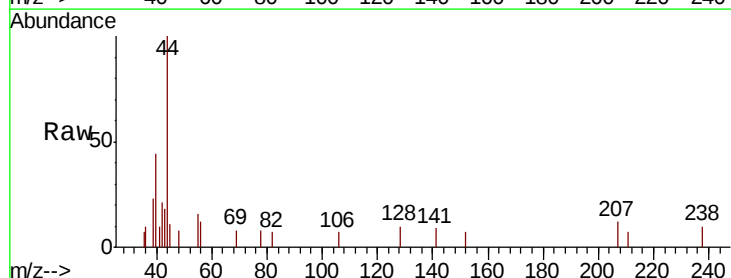
Acq: 2 Oct 2018 16:36

Tgt Ion:106 Resp: 67

Ion Ratio Lower Upper

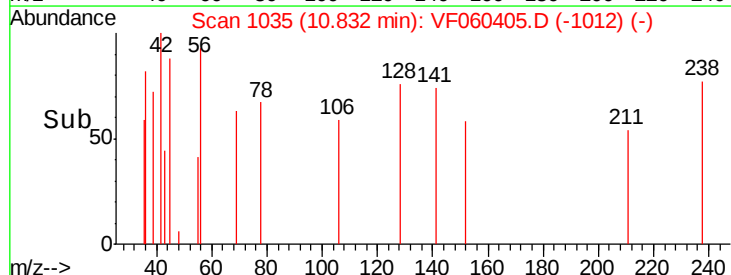
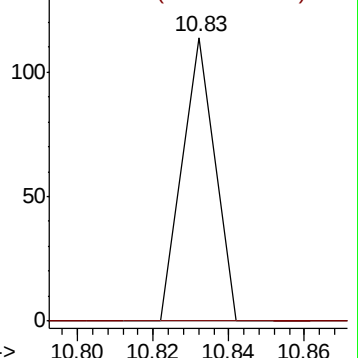
106 100

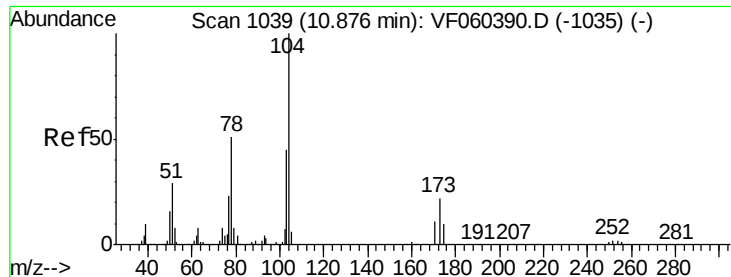
91 0.0 115.1 345.2#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

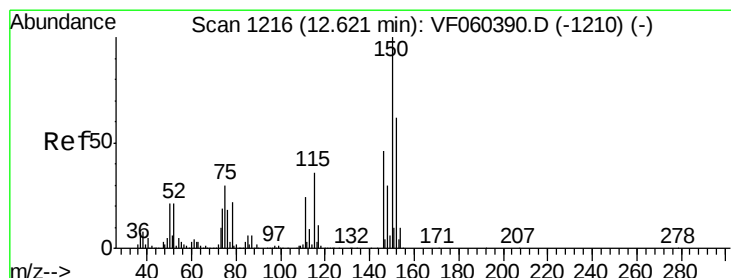
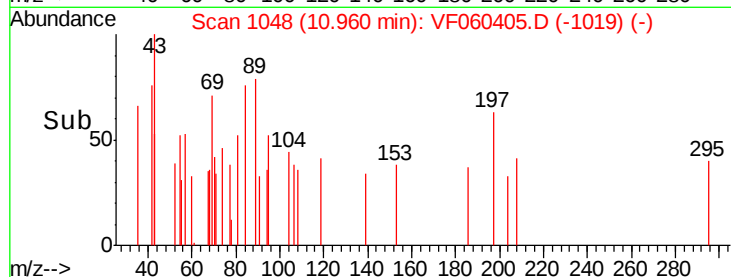
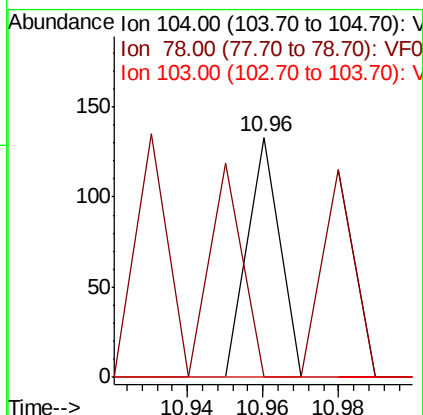
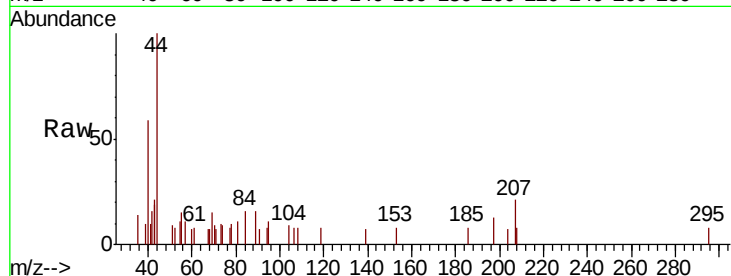




#70
Stvrene
Concen: 52.707 ug/l
RT: 10.96 min Scan# 1048
Delta R.T. 0.08 min
Lab File: VF060405.D
Acq: 2 Oct 2018 16:36

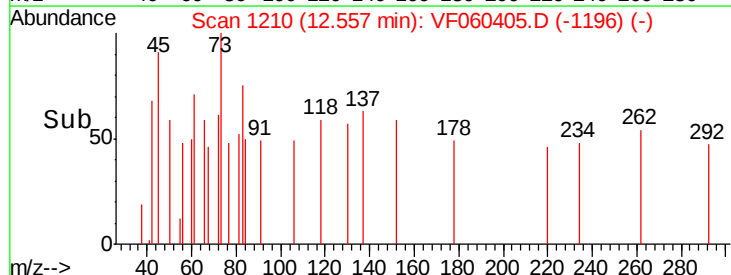
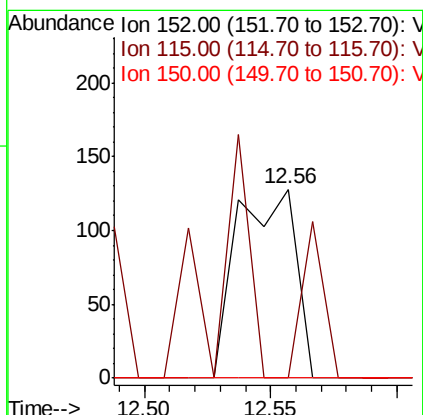
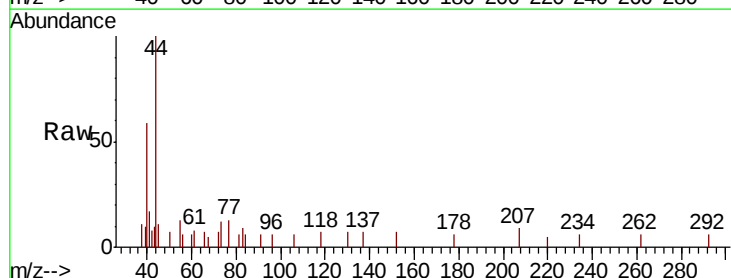
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-1RE

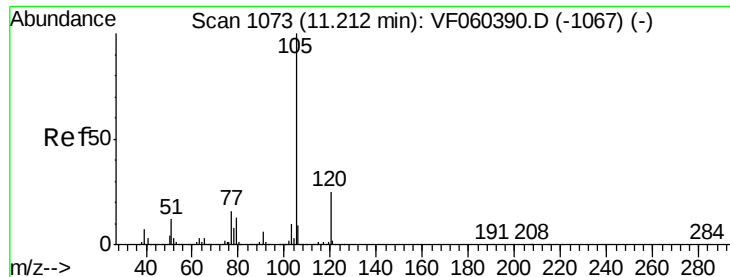
Tot Ion:104 Resp: 79
Ion Ratio Lower Upper
104 100
78 0.0 41.0 61.4#
103 0.0 36.4 54.6#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1210
Delta R.T. -0.06 min
Lab File: VF060405.D
Acq: 2 Oct 2018 16:36

Tgt Ion:152 Resp: 208
Ion Ratio Lower Upper
152 100
115 0.0 28.6 85.8#
150 0.0 0.0 324.6





#73

Isopropylbenzene

Concen: 4.763 ug/l

RT: 11.16 min Scan# 1068

Delta R.T. -0.05 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

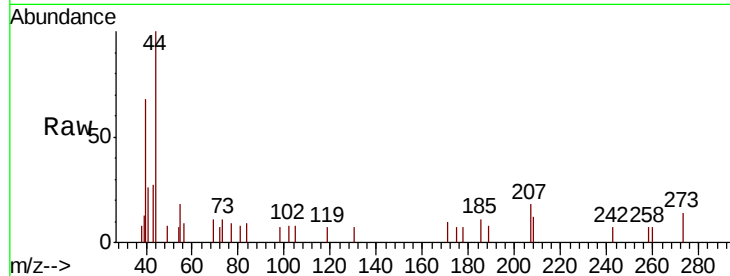
HC-SOIL-1RE

Tot Ion:105 Resp: 78

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

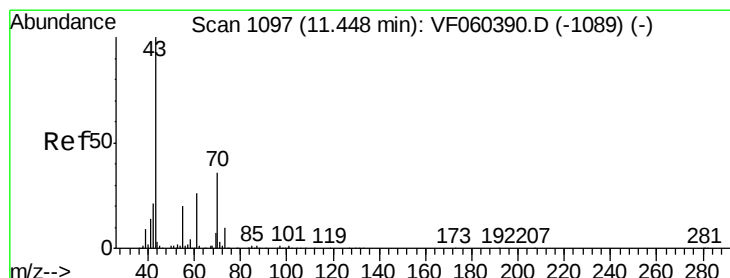
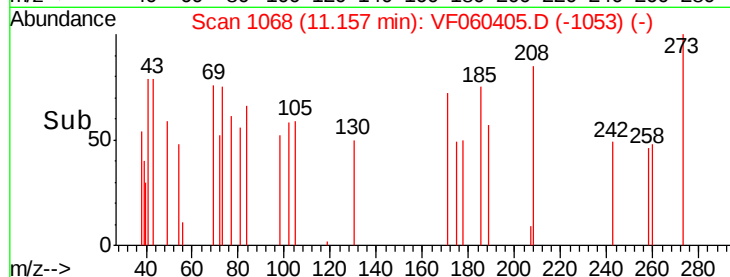
11.16

100

50

0

Time--> 11.12 11.14 11.16 11.18



#74

N-ethyl acetate

Concen: 85.668 ug/l

RT: 11.44 min Scan# 1097

Delta R.T. -0.01 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Tgt Ion: 43 Resp: 322

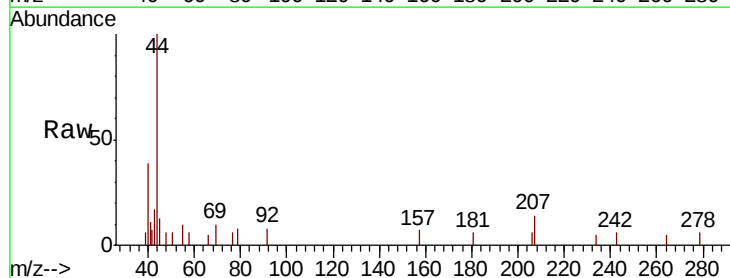
Ion Ratio Lower Upper

43 100

70 0.0 29.1 43.7#

55 57.2 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

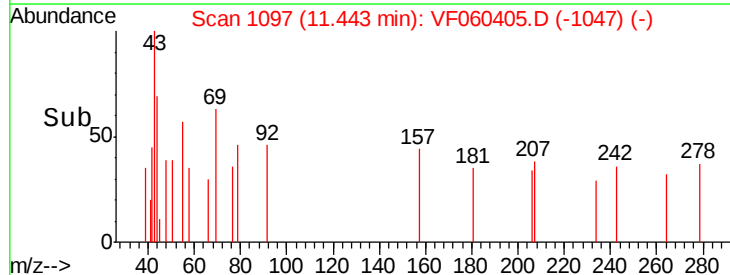
600

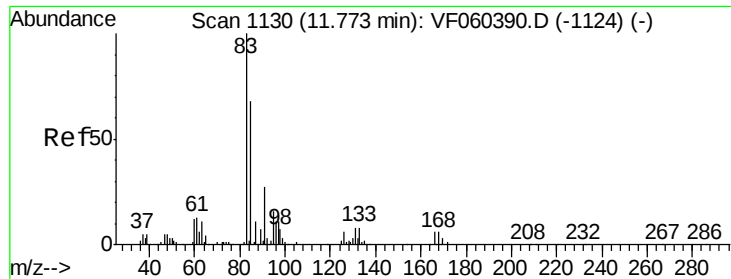
400

200

0

Time--> 11.42 11.44 11.46





#75

1,1,2,2-Tetrachloroethane

Concen: 24.449 ug/l

RT: 11.77 min Scan# 1130

Delta R.T. -0.01 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

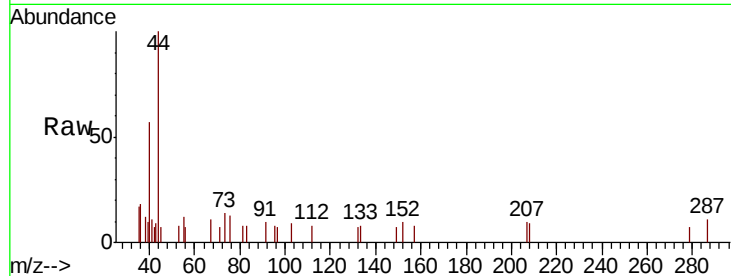
Tot Ion: 83 Resp: 73

Ion Ratio Lower Upper

83 100

131 0.0 4.0 12.0#

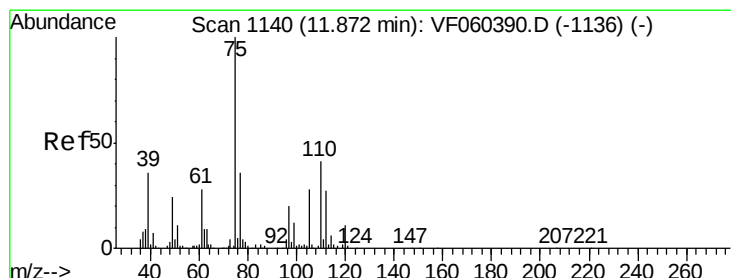
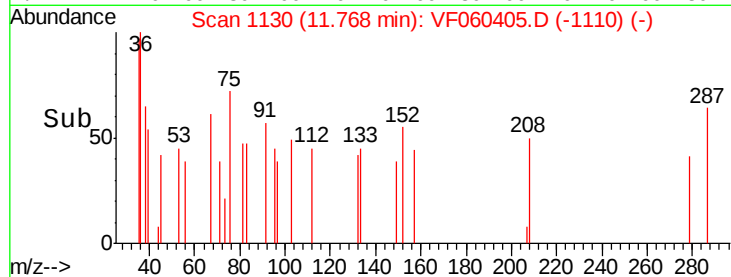
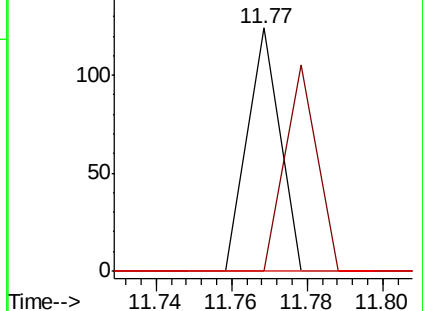
85 0.0 34.0 102.0#



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: 45.947 ug/l

RT: 11.83 min Scan# 1136

Delta R.T. -0.04 min

Lab File: VF060405.D

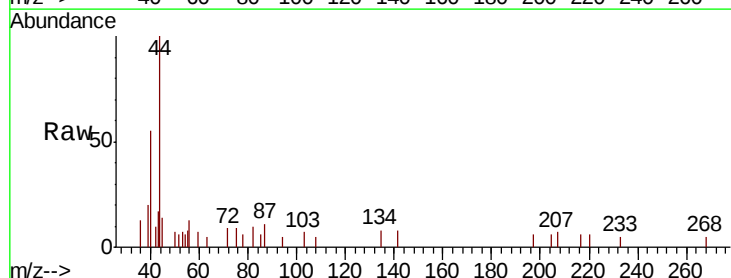
Acq: 2 Oct 2018 16:36

Tgt Ion: 75 Resp: 101

Ion Ratio Lower Upper

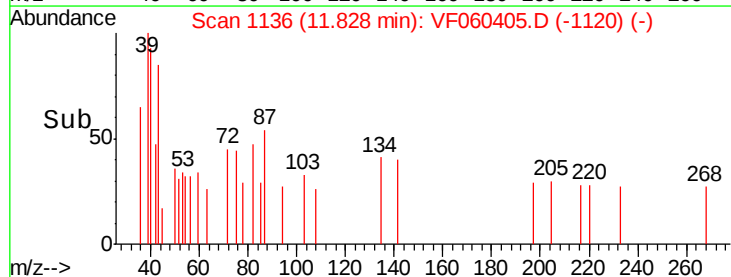
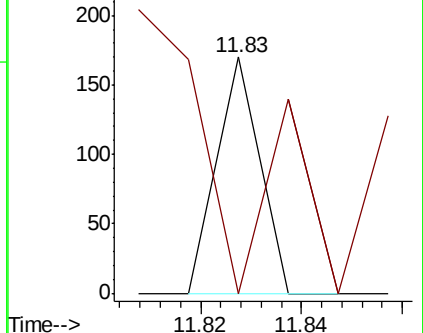
75 100

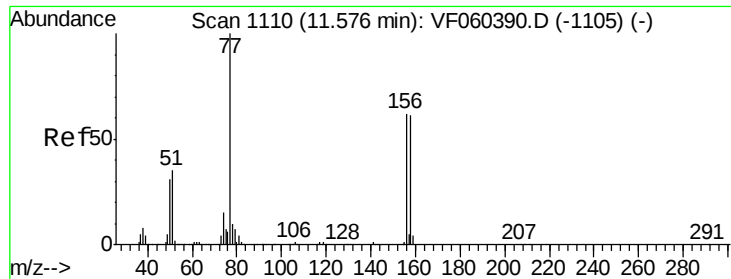
77 0.0 18.1 54.4#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0





#77

Bromobenzene

Concen: 18.028 ug/l

RT: 11.53 min Scan# 1106

Delta R.T. -0.04 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

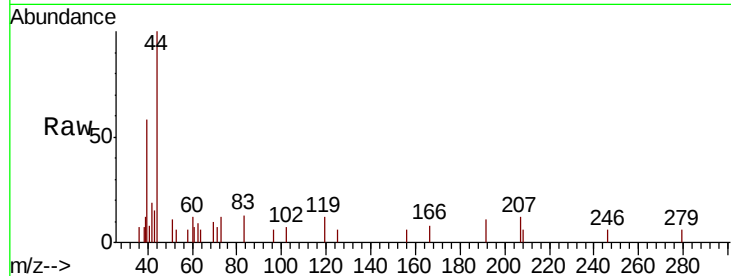
Tot Ion:156 Resp: 66

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

200

150

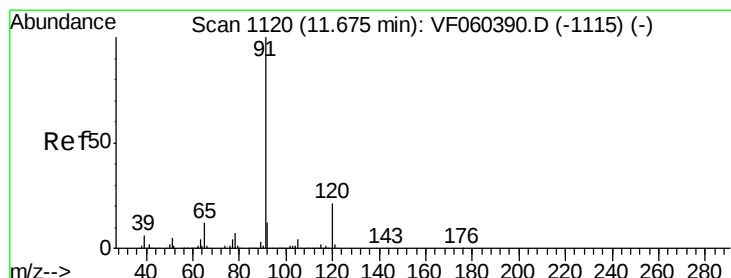
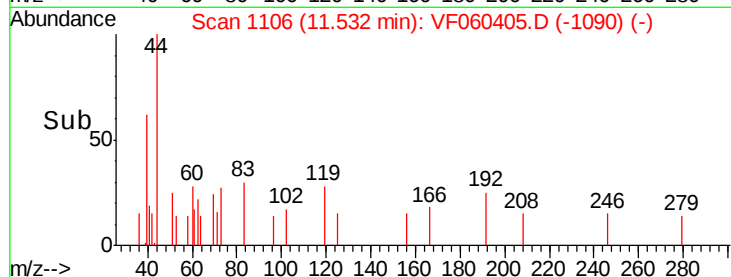
100

50

0

11.50 11.52 11.54 11.56

Time-->



#78

n-propylbenzene

Concen: 5.137 ug/l

RT: 11.69 min Scan# 1122

Delta R.T. 0.01 min

Lab File: VF060405.D

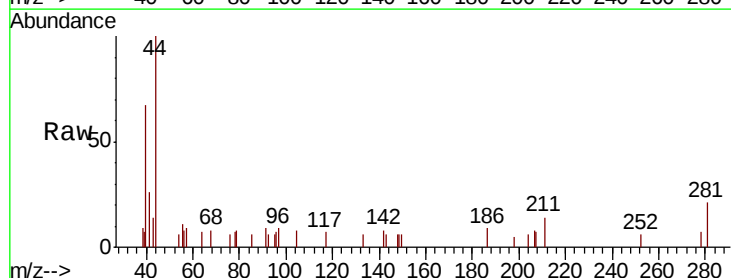
Acq: 2 Oct 2018 16:36

Tgt Ion: 91 Resp: 102

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

200

150

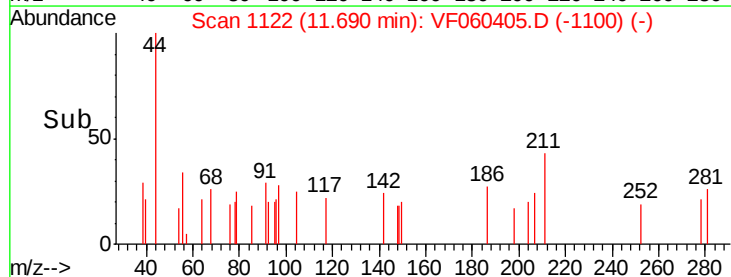
100

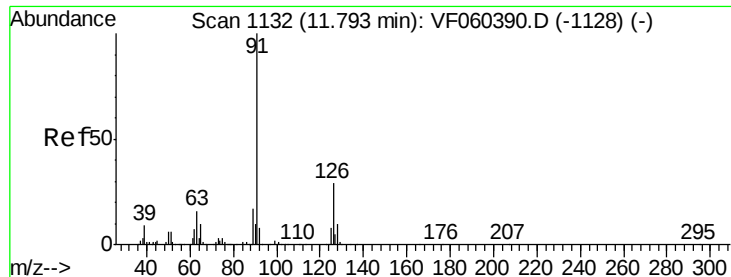
50

0

11.66 11.68 11.70 11.72

Time-->





#79

2-Chlorotoluene

Concen: 5.080 ug/l

RT: 11.80 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampled :

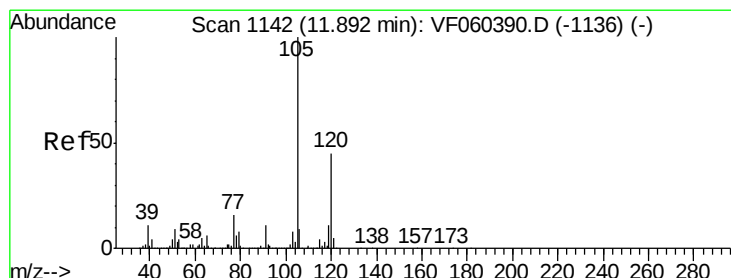
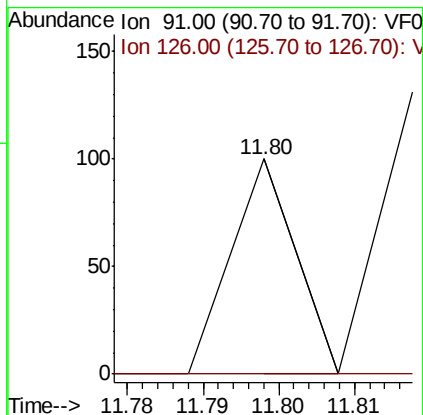
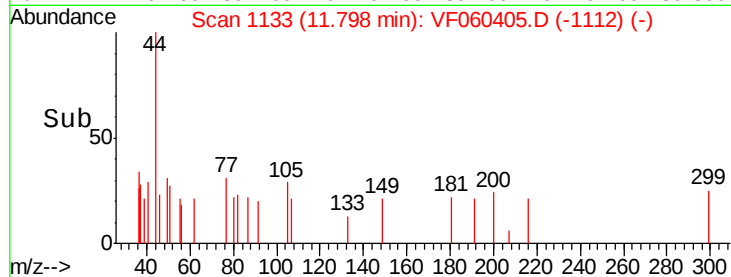
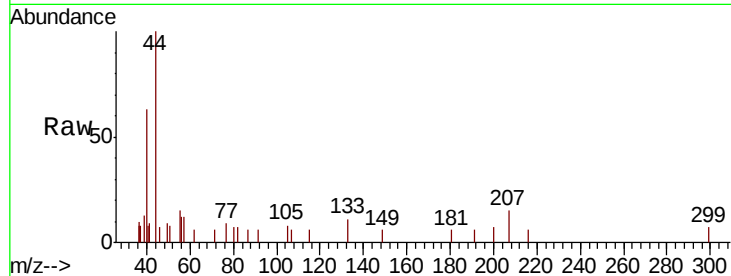
HC-SOIL-1RE

Tot Ion: 91 Resp: 59

Ion Ratio Lower Upper

91 100

126 0.0 14.4 43.4#



#80

1,3,5-Trimethylbenzene

Concen: 5.318 ug/l

RT: 11.92 min Scan# 1145

Delta R.T. 0.02 min

Lab File: VF060405.D

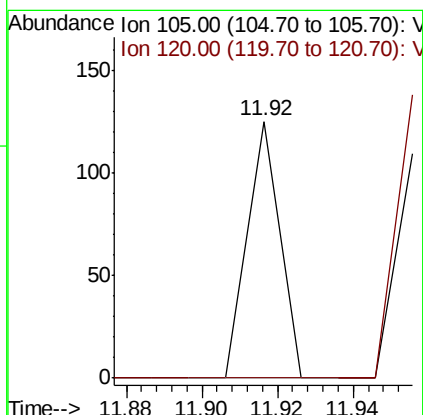
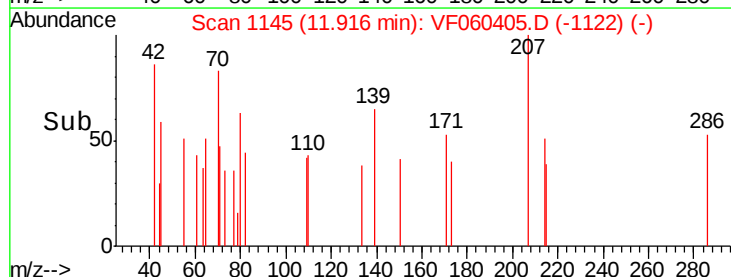
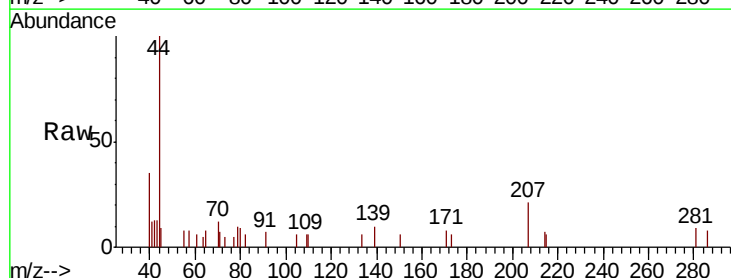
Acq: 2 Oct 2018 16:36

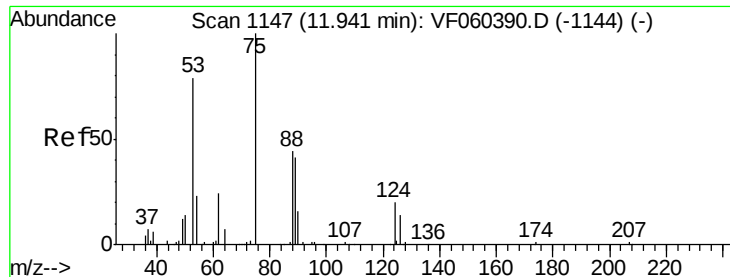
Tgt Ion: 105 Resp: 74

Ion Ratio Lower Upper

105 100

120 0.0 22.3 66.9#





#81

trans-1,4-Dichloro-2-butene

Concen: 70.813 ug/l

RT: 11.97 min Scan# 1150

Delta R.T. 0.02 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-1RE

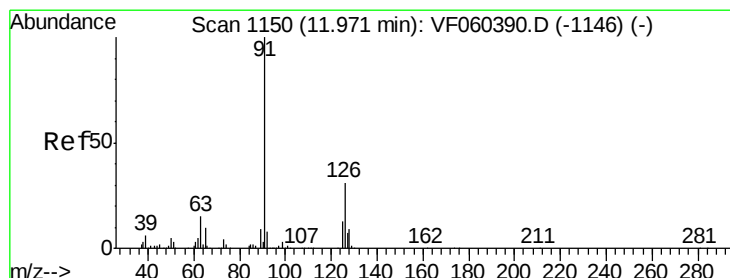
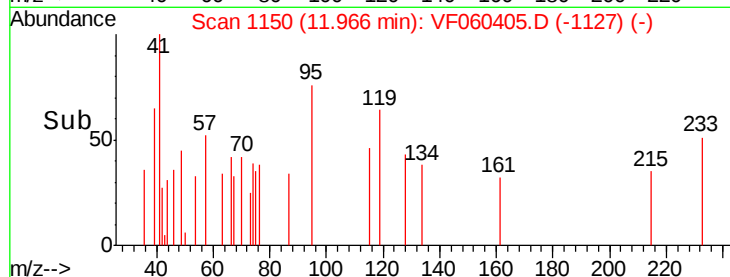
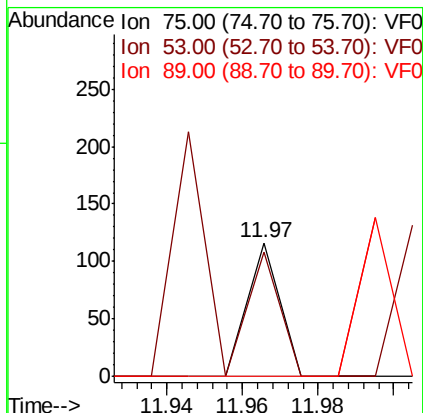
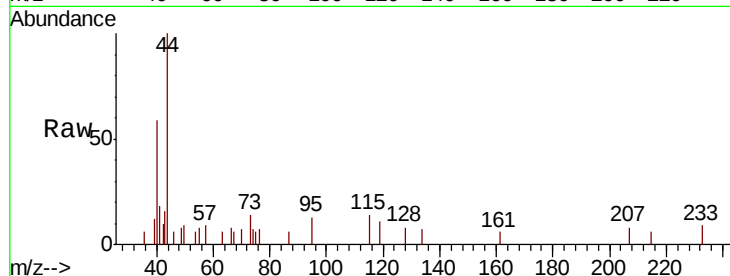
Tot Ion: 75 Resp: 69

Ion Ratio Lower Upper

75 100

53 93.1 67.8 101.8

89 0.0 36.7 55.1#



#82

4-Chlorotoluene

Concen: 5.891 ug/l

RT: 12.02 min Scan# 1156

Delta R.T. 0.05 min

Lab File: VF060405.D

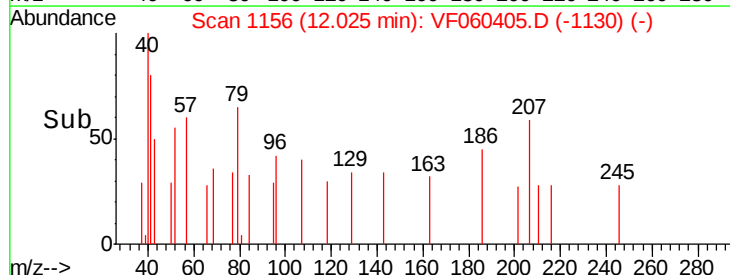
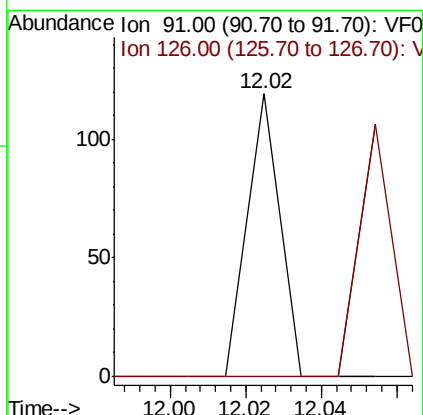
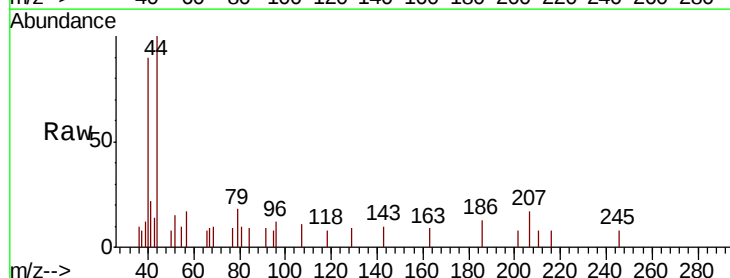
Acq: 2 Oct 2018 16:36

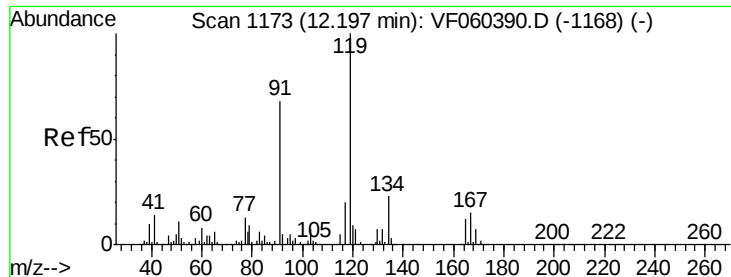
Tgt Ion: 91 Resp: 70

Ion Ratio Lower Upper

91 100

126 0.0 15.7 47.0#





#83

tert-Butylbenzene

Concen: 5.392 ug/l

RT: 12.20 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

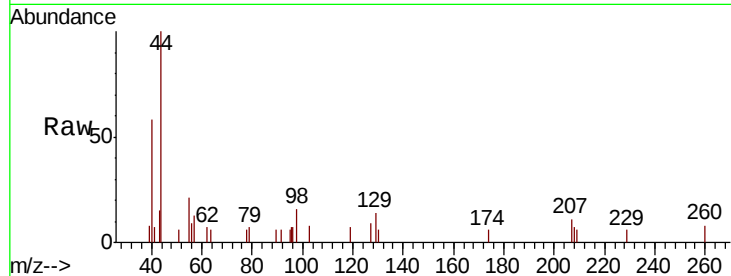
Tot Ion:119 Resp: 74

Ion Ratio Lower Upper

119 100

91 86.4 34.0 102.0

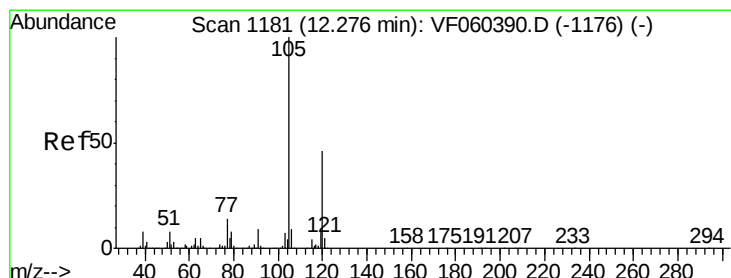
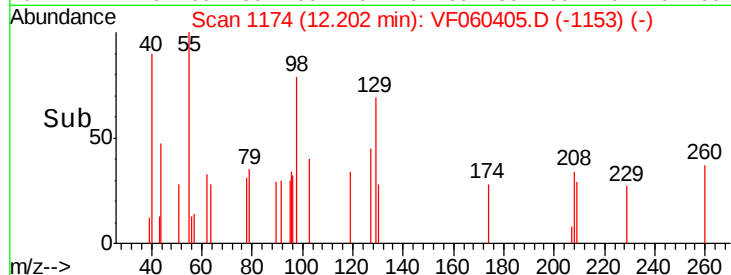
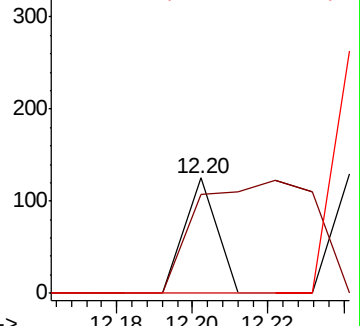
134 0.0 11.7 35.0#



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: 6.087 ug/l

RT: 12.29 min Scan# 1183

Delta R.T. 0.01 min

Lab File: VF060405.D

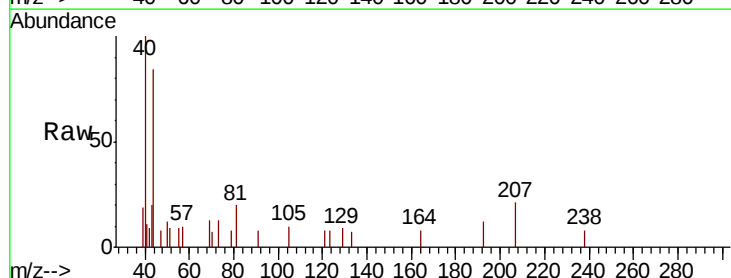
Acq: 2 Oct 2018 16:36

Tgt Ion:105 Resp: 84

Ion Ratio Lower Upper

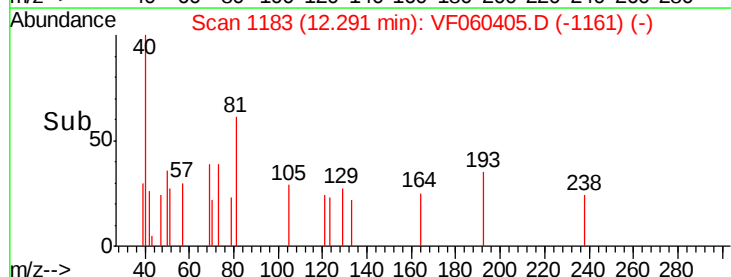
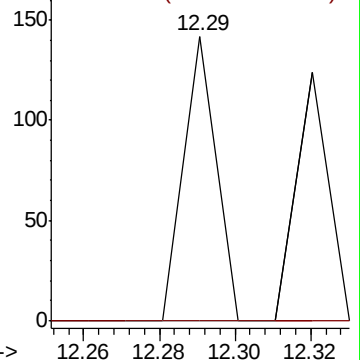
105 100

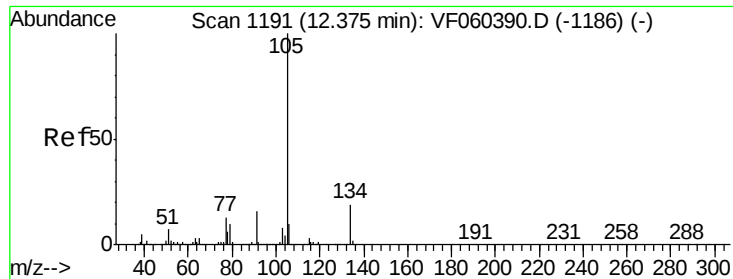
120 0.0 23.1 69.2#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 3.854 ug/l

RT: 12.32 min Scan# 1186

Delta R.T. -0.05 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampled :

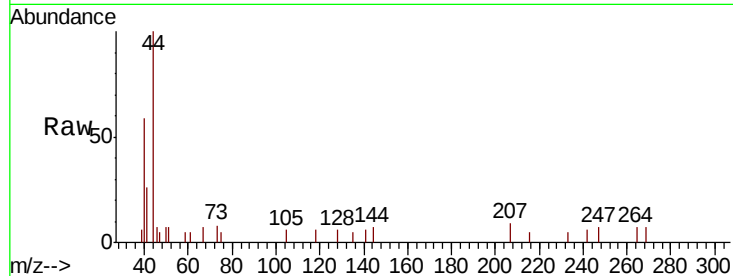
HC-SOIL-1RE

Tot Ion:105 Resp: 73

Ion Ratio Lower Upper

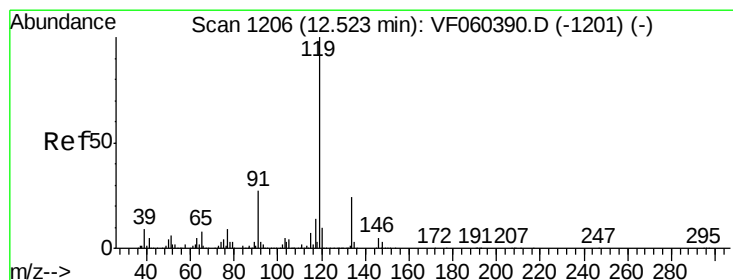
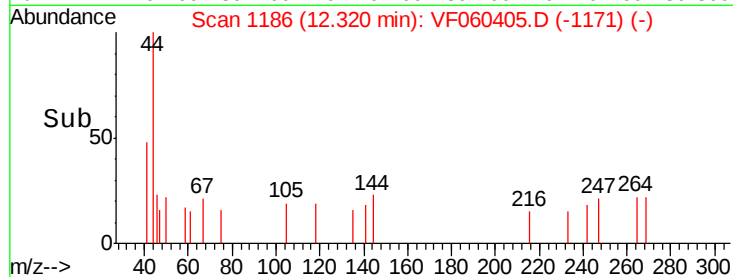
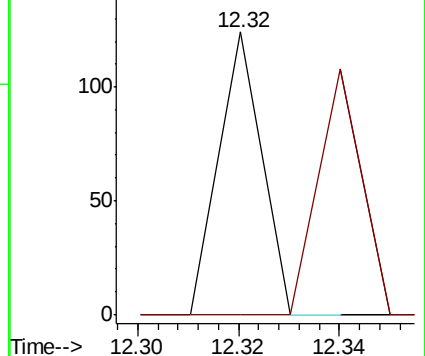
105 100

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



#86

p-Isopropyltoluene

Concen: 5.815 ug/l

RT: 12.58 min Scan# 1212

Delta R.T. 0.05 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

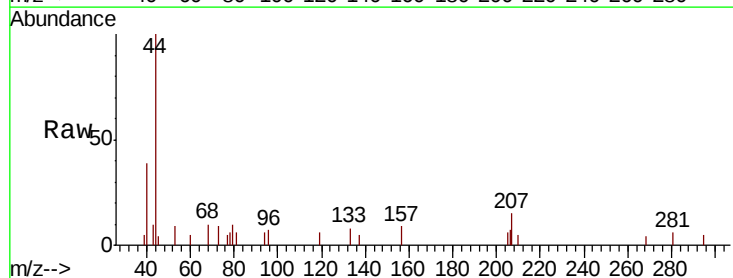
Tgt Ion:119 Resp: 90

Ion Ratio Lower Upper

119 100

134 0.0 12.3 36.8#

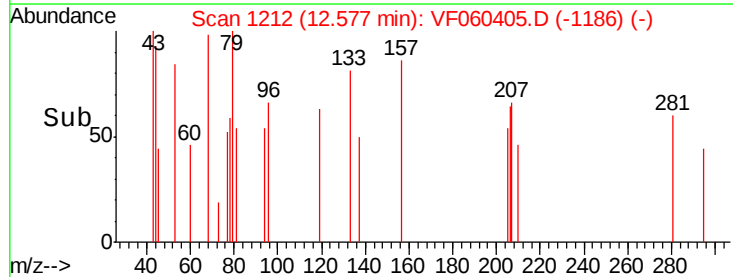
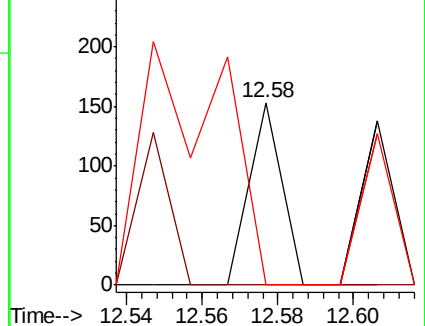
91 0.0 13.5 40.4#

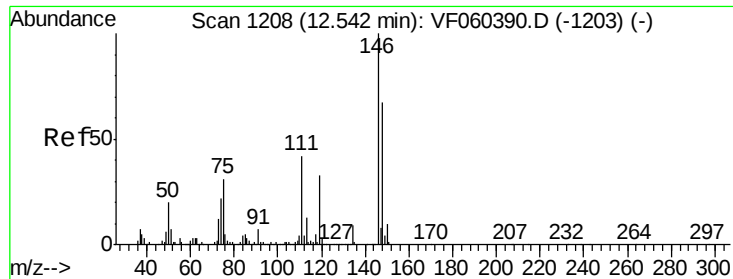


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0





#87

1,3-Dichlorobenzene

Concen: 11.903 ug/l

RT: 12.60 min Scan# 1214

Delta R.T. 0.05 min

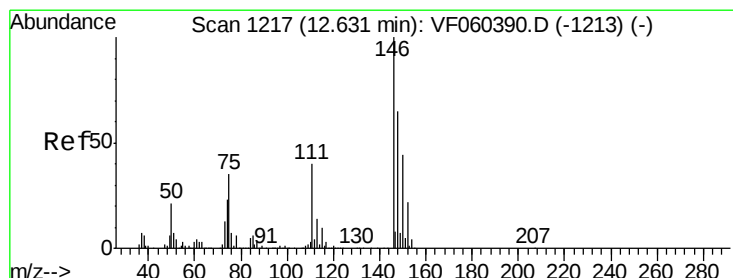
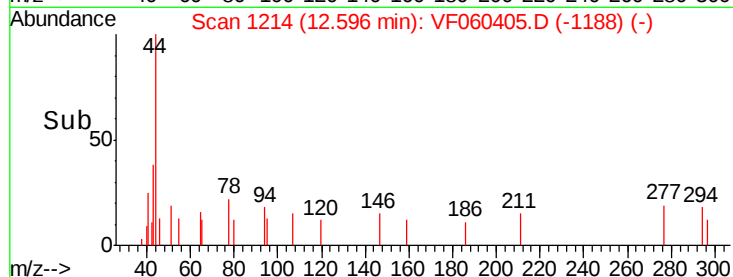
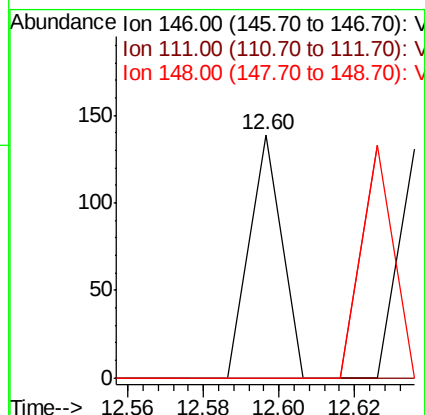
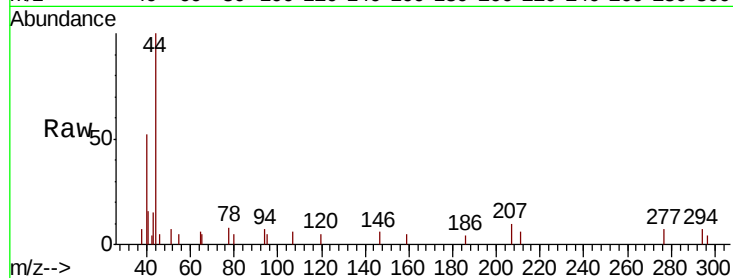
Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-1RE

Tot Ion:146 Resp: 82

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: 11.482 ug/l

RT: 12.64 min Scan# 1218

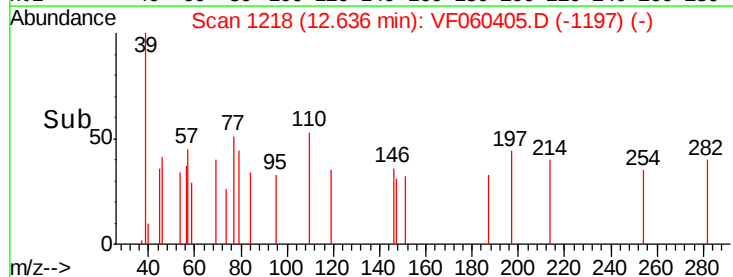
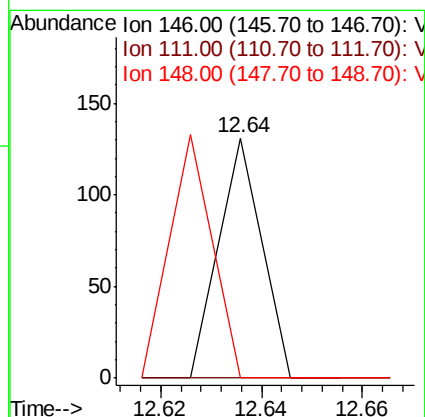
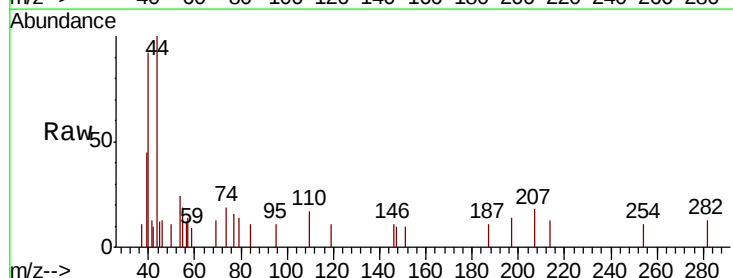
Delta R.T. 0.00 min

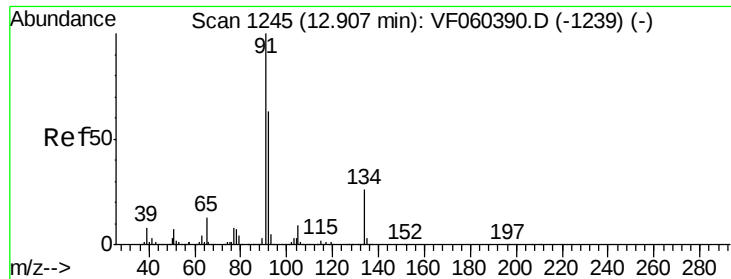
Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Tgt Ion:146 Resp: 78

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





#89

n-Butylbenzene

Concen: 5.435 ug/l

RT: 12.92 min Scan# 1247

Delta R.T. 0.01 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

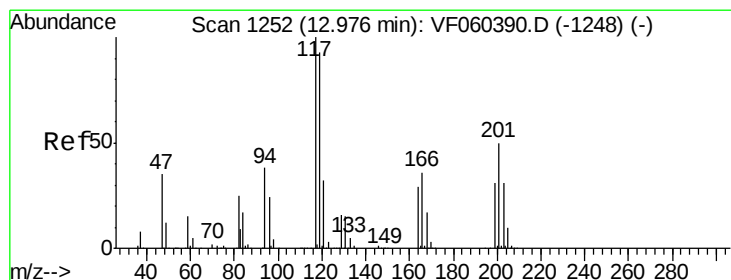
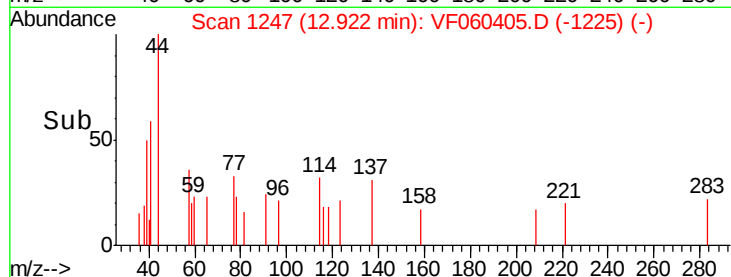
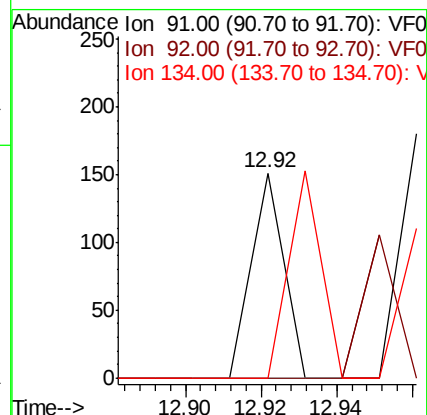
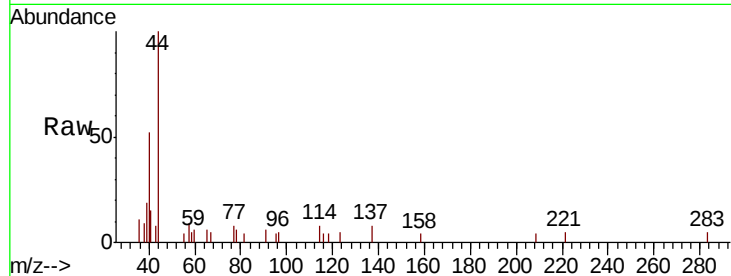
Tot Ion: 91 Resp: 89

Ion Ratio Lower Upper

91 100

92 0.0 31.3 93.9#

134 0.0 13.0 38.9#



#90

Hexachloroethane

Concen: 35.000 ug/l

RT: 12.93 min Scan# 1248

Delta R.T. -0.04 min

Lab File: VF060405.D

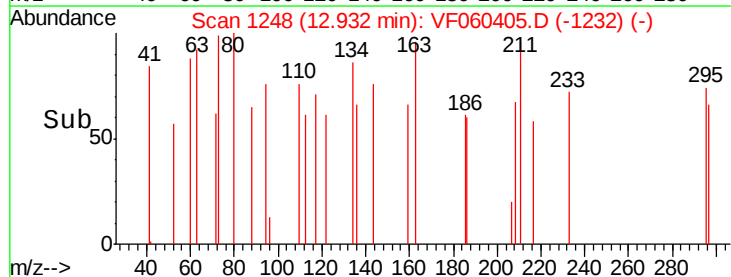
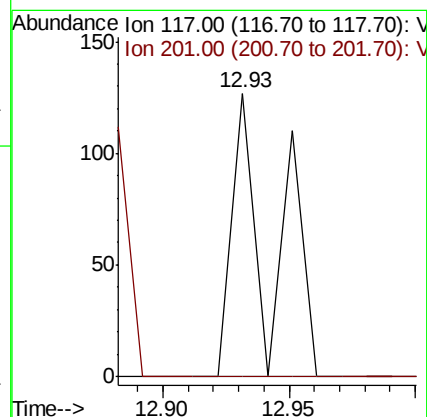
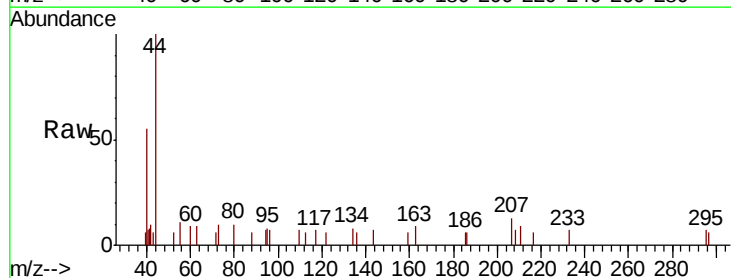
Acq: 2 Oct 2018 16:36

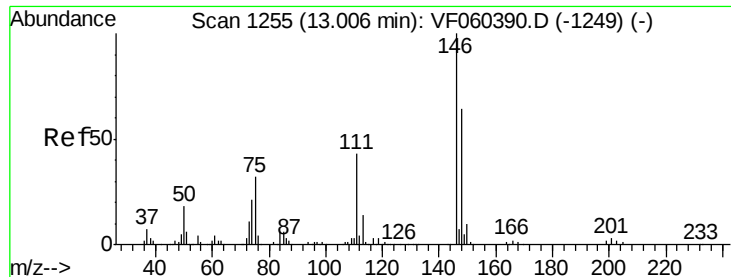
Tgt Ion: 117 Resp: 140

Ion Ratio Lower Upper

117 100

201 0.0 25.5 76.5#





#91

1,2-Dichlorobenzene

Concen: 13.938 ug/l

RT: 12.99 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-1RE

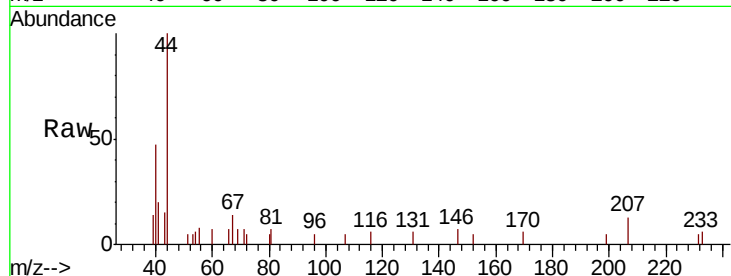
Tot Ion:146 Resp: 92

Ion Ratio Lower Upper

146 100

111 0.0 21.3 64.0#

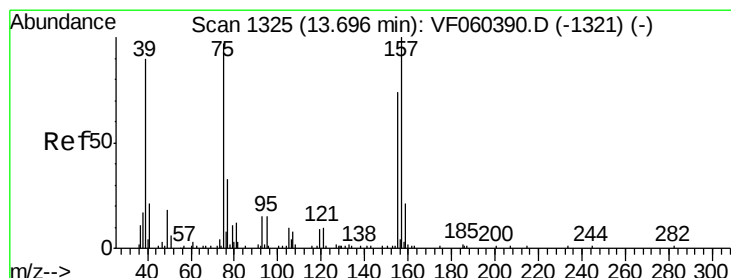
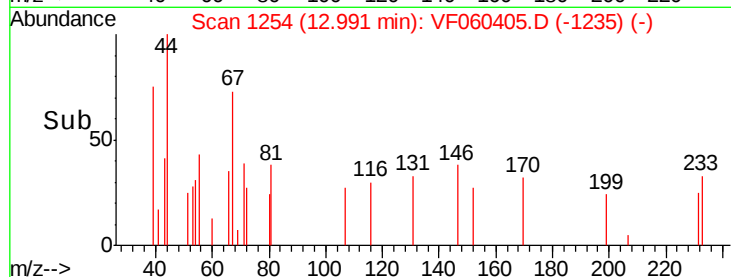
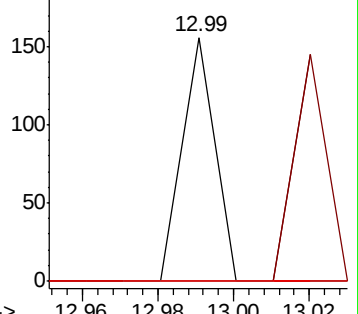
148 0.0 32.2 96.6#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 146.845 ug/l

RT: 13.71 min Scan# 1327

Delta R.T. 0.01 min

Lab File: VF060405.D

Acq: 2 Oct 2018 16:36

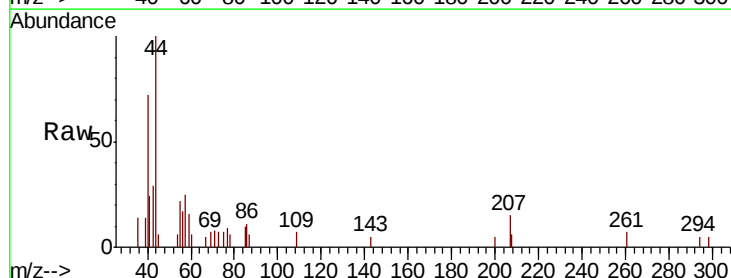
Tgt Ion: 75 Resp: 85

Ion Ratio Lower Upper

75 100

155 0.0 37.9 113.6#

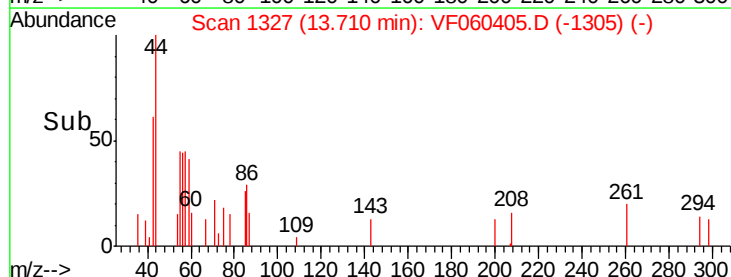
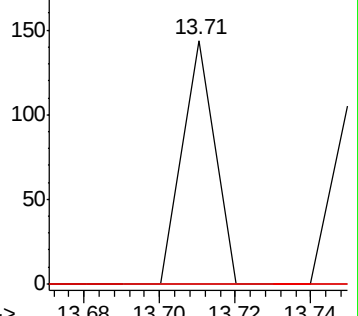
157 0.0 51.3 154.0#

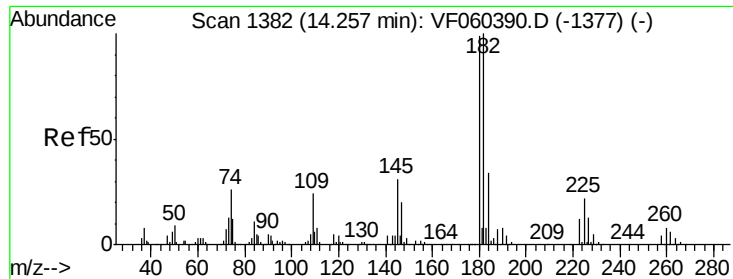


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

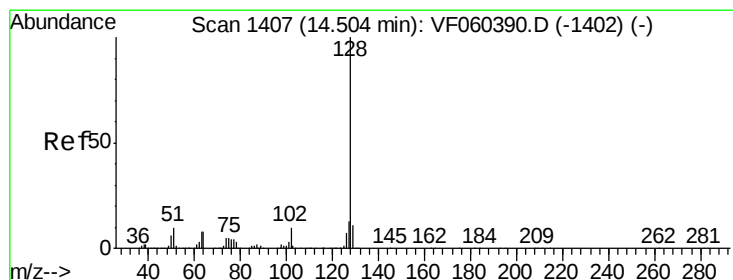
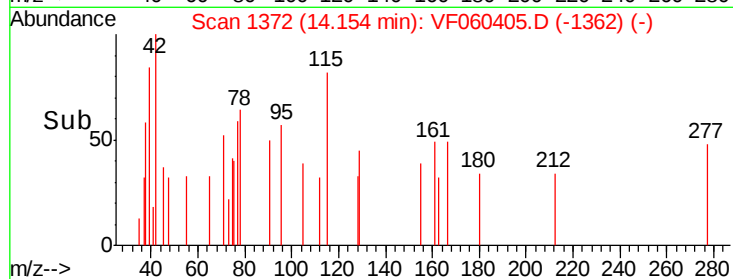
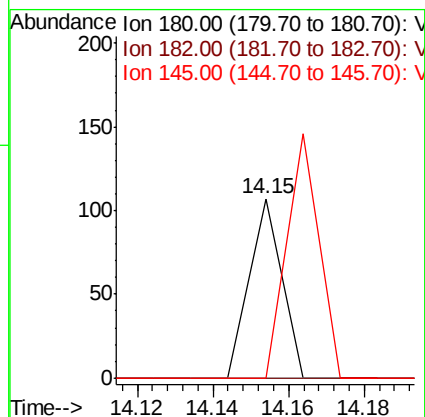
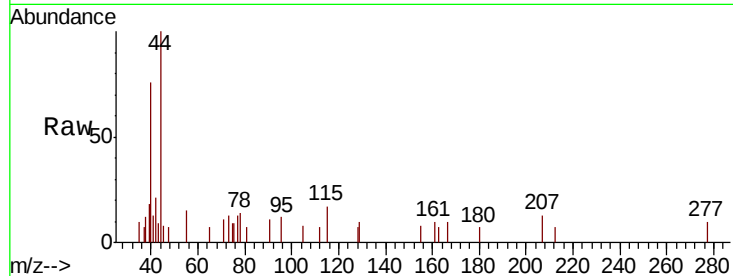




#93
 1,2,4-Trichlorobenzene
 Concen: 12.770 ug/l
 RT: 14.15 min Scan# 1372
 Delta R.T. -0.10 min
 Lab File: VF060405.D
 Acq: 2 Oct 2018 16:36

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-1RE

Tot Ion:180 Resp: 63
 Ion Ratio Lower Upper
 180 100
 182 0.0 50.3 150.9#
 145 0.0 15.5 46.5#



#95
 Naphthalene
 Concen: 40.132 ug/l
 RT: 14.51 min Scan# 1408
 Delta R.T. 0.00 min
 Lab File: VF060405.D
 Acq: 2 Oct 2018 16:36

Tgt Ion:128 Resp: 354
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.0 15.0#
 129 0.0 8.7 13.1#

