

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092818\
 Data File : VF060380.D
 Acq On : 28 Sep 2018 21:17
 Operator : VA/AP
 Sample : J5170-07
 Misc : 6.46/5mL/MSVOA F/SOIL
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-2

Quant Time: Sep 29 00:20:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.03	168	2757	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.76	114	3019	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.92	117	713	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.65	152	129	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.98	65	512	13.79	ug/l	-0.03
Spiked Amount				50.000		
			Recovery	=	27.58%	
35) Dibromofluoromethane	4.27	113	1192	44.29	ug/l	-0.02
Spiked Amount				50.000		
			Recovery	=	88.58%	
50) Toluene-d8	7.72	98	2993	42.71	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	85.42%	
62) 4-Bromofluorobenzene	11.50	95	1500	49.51	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.02%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	63	Below Cal	#	40
3) Chloromethane	1.12	50	201	5.350	ug/l #	28
4) Vinyl Chloride	1.31	62	94	2.455	ug/l #	43
5) Bromomethane	1.31	94	308	8.432	ug/l	97
6) Chloroethane	1.44	64	114	6.252	ug/l #	42
7) Trichlorofluoromethane	1.44	101	72	1.009	ug/l #	18
8) Diethyl Ether	1.79	74	140	11.796	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	1.94	101	64	1.687	ug/l #	23
10) Methyl Iodide	1.99	142	79	1.291	ug/l #	24
11) Tert butyl alcohol	2.61	59	72	19.330	ug/l #	1
12) 1,1-Dichloroethene	1.78	96	292	9.307	ug/l #	1
13) Acrolein	2.19	56	179	269.365	ug/l	93
14) Allyl chloride	2.21	41	684	12.493	ug/l #	48
15) Acrylonitrile	3.03	53	103	19.645	ug/l #	65
16) Acetone	2.35	43	738	70.589	ug/l #	59
17) Carbon Disulfide	1.79	76	121	Below Cal	#	70
18) Methyl Acetate	2.43	43	948	54.430	ug/l #	62
20) Methylene Chloride	2.26	84	177	Below Cal	#	8
21) trans-1,2-Dichloroethene	2.39	96	199	6.141	ug/l #	1
22) Diisopropyl ether	2.91	45	229	2.217	ug/l #	42
23) Vinyl Acetate	3.30	43	671	16.539	ug/l #	79
24) 1,1-Dichloroethane	2.99	63	104	1.552	ug/l #	89
25) 2-Butanone	4.47	43	277	19.684	ug/l #	56
26) 2,2-Dichloropropane	3.73	77	102	2.668	ug/l #	58
27) cis-1,2-Dichloroethene	3.66	96	187	4.393	ug/l	1
28) Bromochloromethane	3.84	49	63	2.415	ug/l #	8
29) Tetrahydrofuran	4.25	42	219	42.497	ug/l #	88
31) Cyclohexane	3.81	56	112	1.979	ug/l #	15
32) 1,1,1-Trichloroethane	4.24	97	70	1.097	ug/l #	21
36) 1,1-Dichloropropene	4.46	75	136	3.611	ug/l #	1
37) Ethyl Acetate	4.32	43	632	39.663	ug/l #	1
39) Methylcyclohexane	5.65	83	67	1.642	ug/l #	16
40) Benzene	4.86	78	144	1.686	ug/l #	1
41) Methacrylonitrile	4.89	41	807	93.336	ug/l #	45

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42) 1,2-Dichloroethane	5.09	62	75	2.386	ug/l	79
43) Isopropyl Acetate	7.11	43	730	38.056	ug/l #	48
44) Trichloroethene	5.79	130	64	2.518	ug/l	1
45) 1,2-Dichloropropane	6.39	63	79	3.575	ug/l #	42
46) Dibromomethane	6.25	93	89	5.634	ug/l #	5
47) Bromodichloromethane	6.56	83	61	1.607	ug/l #	26
48) Methyl methacrylate	6.82	41	956	70.996	ug/l #	14
49) 1,4-Dioxane	6.52	88	70	581.878	ug/l #	1
51) 4-Methyl-2-Pentanone	8.39	43	793	53.637	ug/l #	35
53) t-1,3-Dichloropropene	8.37	75	136	4.441	ug/l #	42
54) cis-1,3-Dichloropropene	7.45	75	63	1.633	ug/l #	1
55) 1,1,2-Trichloroethane	8.51	97	189	11.528	ug/l #	17
56) Ethyl methacrylate	8.75	69	204	10.302	ug/l #	1
57) 1,3-Dichloropropane	8.97	76	62	2.284	ug/l #	1
58) 2-Chloroethyl Vinyl ether	7.77	63	137	78.265	ug/l	100
59) 2-Hexanone	9.63	43	168	15.959	ug/l #	26
60) Dibromochloromethane	8.95	129	75	3.069	ug/l #	13
61) 1,2-Dibromoethane	9.15	107	78	4.272	ug/l #	4
64) Tetrachloroethene	8.27	164	62	9.592	ug/l #	1
65) Chlorobenzene	9.94	112	77	4.765	ug/l #	41
66) 1,1,1,2-Tetrachloroethane	10.04	131	62	9.245	ug/l #	6
67) Ethyl Benzene	10.08	91	326	10.911	ug/l #	46
68) m/p-Xylenes	10.36	106	67	6.491	ug/l #	1
69) o-Xylene	10.93	106	153	13.214	ug/l #	1
70) Styrene	11.03	104	67	4.103	ug/l #	31
71) Bromoform	10.91	173	80	21.721	ug/l #	31
73) Isopropylbenzene	11.21	105	131	11.312	ug/l #	51
74) N-amyl acetate	11.44	43	272	110.143	ug/l #	61
75) 1,1,2,2-Tetrachloroethane	11.78	83	380	185.153	ug/l #	15
76) 1,2,3-Trichloropropane	11.86	75	155	105.477	ug/l #	52
77) Bromobenzene	11.59	156	1250	500.848	ug/l #	6
78) n-propylbenzene	11.71	91	216	12.699	ug/l #	57
79) 2-Chlorotoluene	11.83	91	163	20.866	ug/l #	42
80) 1,3,5-Trimethylbenzene	11.93	105	250	26.818	ug/l #	10
81) trans-1,4-Dichloro-2-buten	11.95	75	68	87.561	ug/l #	20
82) 4-Chlorotoluene	12.12	91	406	51.709	ug/l	92
83) tert-Butylbenzene	12.21	119	146	15.450	ug/l #	82
84) 1,2,4-Trimethylbenzene	12.13	105	170	17.959	ug/l	92
85) sec-Butylbenzene	12.32	105	1436	146.665	ug/l #	58
86) p-Isopropyltoluene	12.54	119	289	29.646	ug/l #	1
87) 1,3-Dichlorobenzene	12.49	146	74	15.867	ug/l #	1
88) 1,4-Dichlorobenzene	12.75	146	71	15.403	ug/l #	25
89) n-Butylbenzene	12.92	91	502	51.286	ug/l #	72
90) Hexachloroethane	13.01	117	228	86.222	ug/l #	22
91) 1,2-Dichlorobenzene	13.05	146	222	49.900	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	13.78	75	267	692.907	ug/l	65
93) 1,2,4-Trichlorobenzene	14.29	180	167	51.645	ug/l #	10
95) Naphthalene	14.49	128	229	40.392	ug/l #	1
96) 1,2,3-Trichlorobenzene	14.63	180	69	23.093	ug/l #	1

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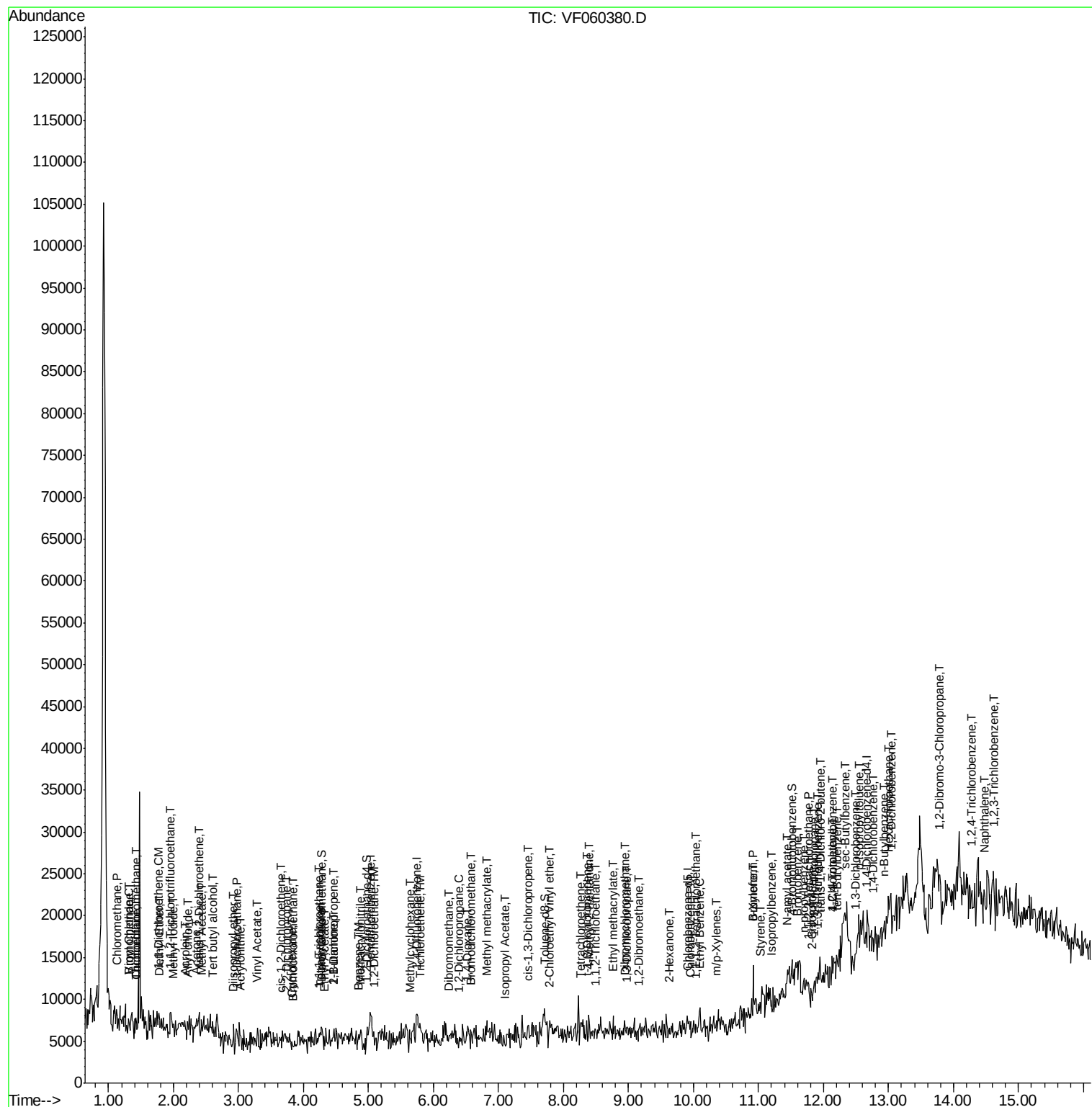
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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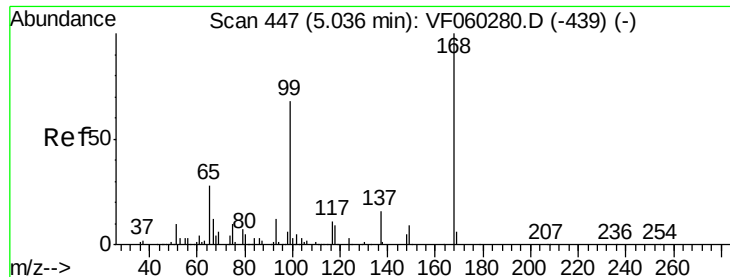
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

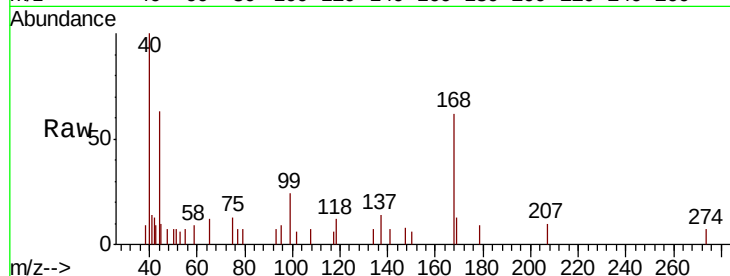
HC-SOIL-2

Tot Ion:168 Resp: 2757

Ion Ratio Lower Upper

168 100

99 39.5 54.8 82.2#



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.03

1200

1000

800

600

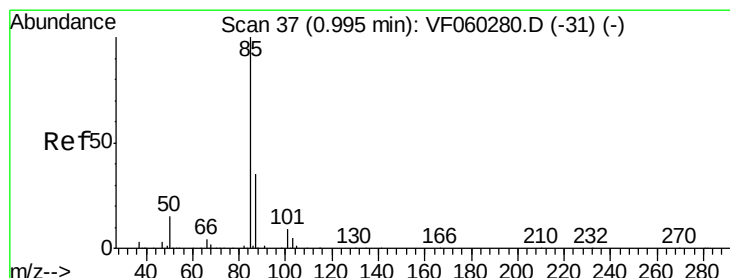
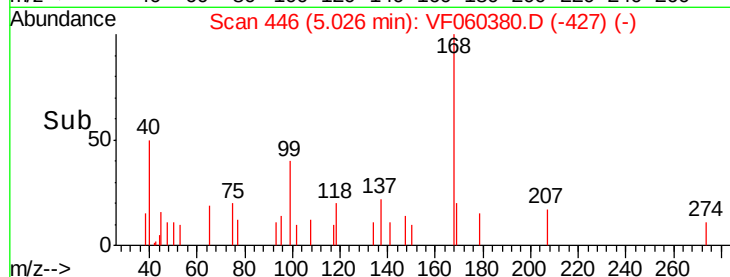
400

200

0

4.95 5.00 5.05 5.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 38

Delta R.T. 0.01 min

Lab File: VF060380.D

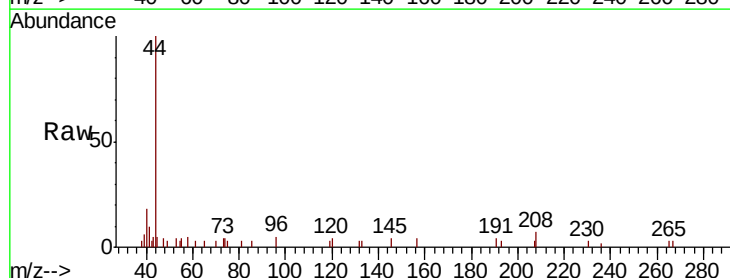
Acq: 28 Sep 2018 21:17

Tgt Ion: 85 Resp: 63

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1.00

120

100

80

60

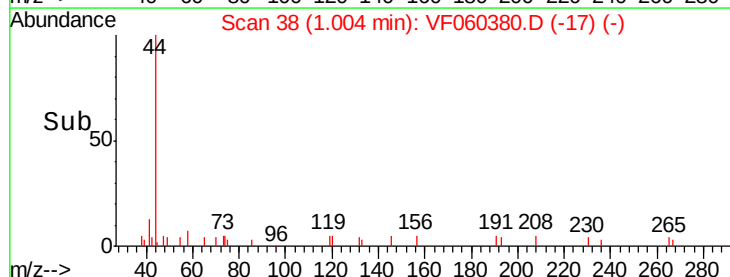
40

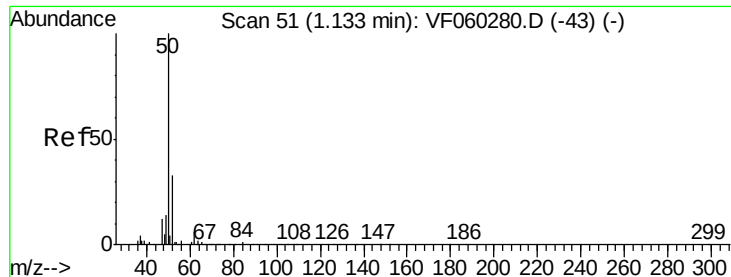
20

0

0.98 1.00 1.02

Time-->





#3

Chloromethane

Concen: 5.350 ug/l

RT: 1.12 min Scan# 50

Delta R.T. -0.01 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampled :

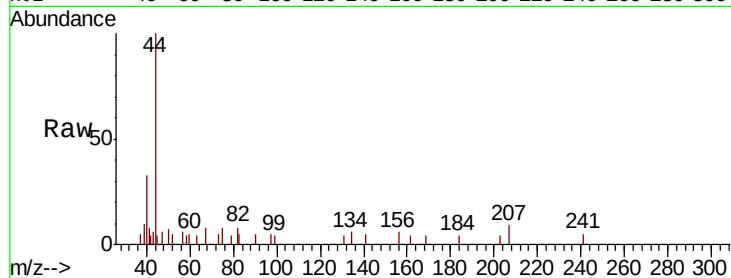
HC-SOIL-2

Tot Ion: 50 Resp: 201

Ion Ratio Lower Upper

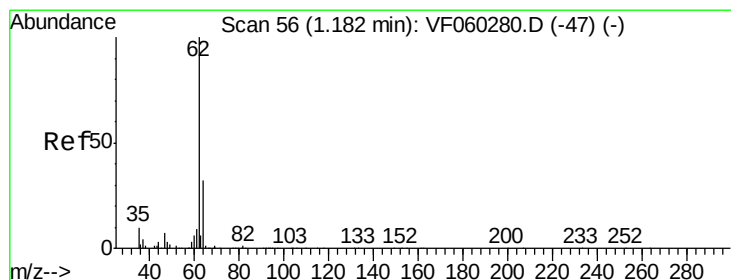
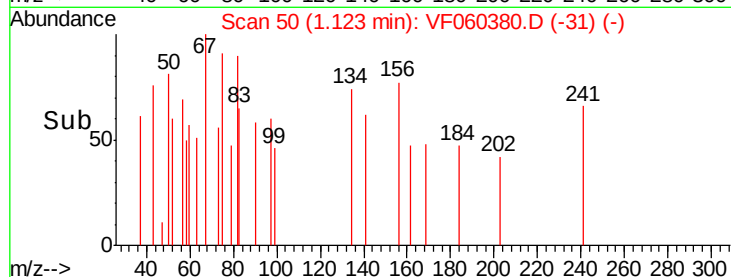
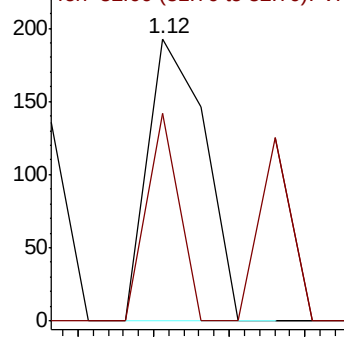
50 100

52 73.6 26.5 39.7#



Abundance Ion 50.00 (49.70 to 50.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#4

Vinyl Chloride

Concen: 2.455 ug/l

RT: 1.31 min Scan# 69

Delta R.T. 0.13 min

Lab File: VF060380.D

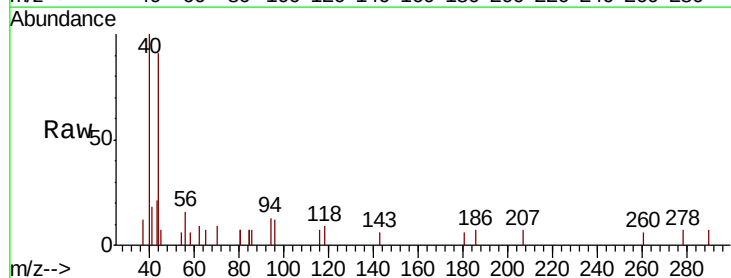
Acq: 28 Sep 2018 21:17

Tgt Ion: 62 Resp: 94

Ion Ratio Lower Upper

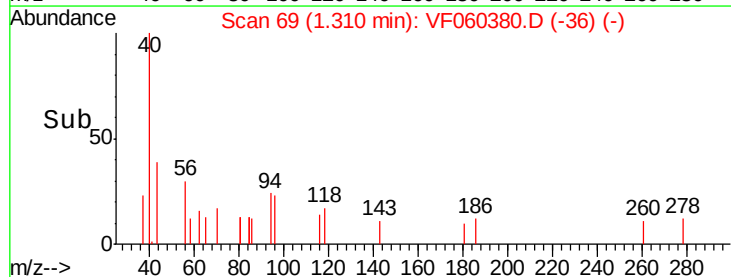
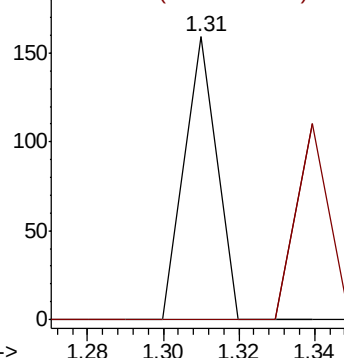
62 100

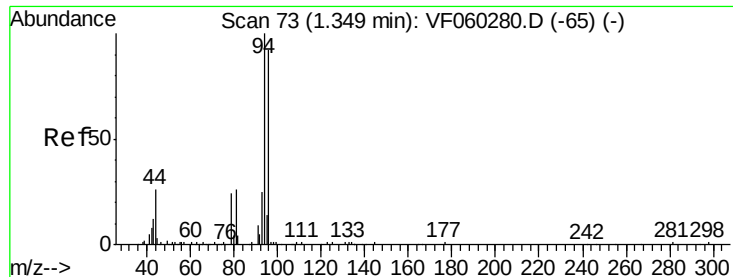
64 0.0 25.2 37.8#



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 64.00 (63.70 to 64.70): VF0





#5

Bromomethane

Concen: 8.432 ug/l

RT: 1.31 min Scan# 69

Delta R.T. -0.04 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampled :

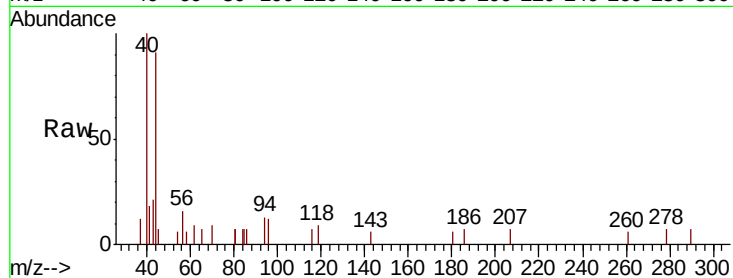
HC-SOIL-2

Tot Ion: 94 Resp: 308

Ion Ratio Lower Upper

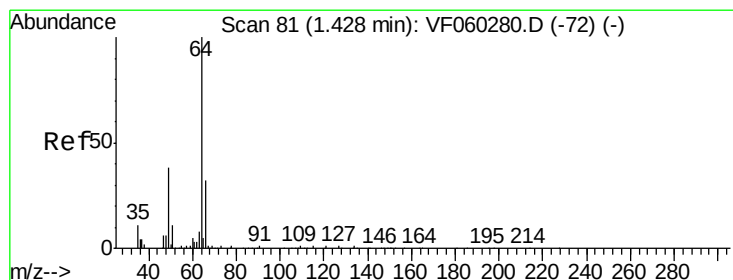
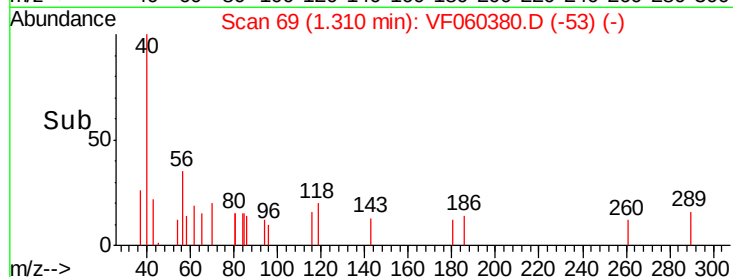
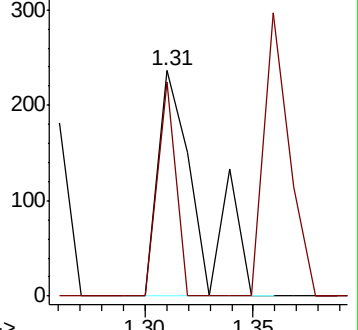
94 100

96 94.9 73.9 110.9



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0



#6

Chloroethane

Concen: 6.252 ug/l

RT: 1.44 min Scan# 82

Delta R.T. 0.01 min

Lab File: VF060380.D

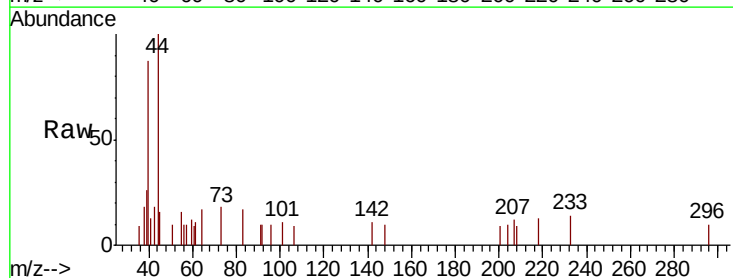
Acq: 28 Sep 2018 21:17

Tgt Ion: 64 Resp: 114

Ion Ratio Lower Upper

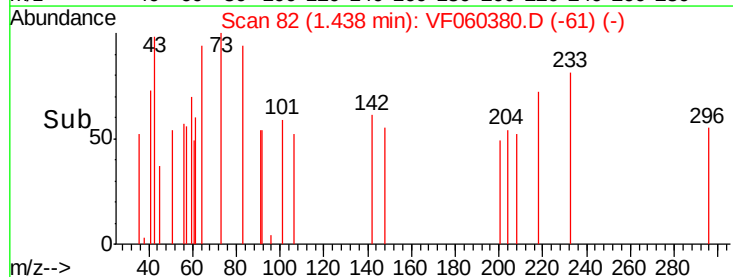
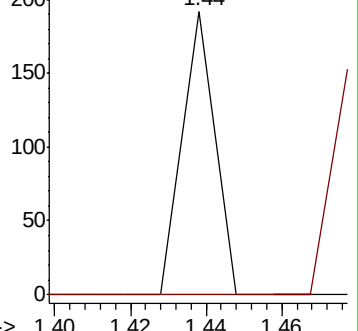
64 100

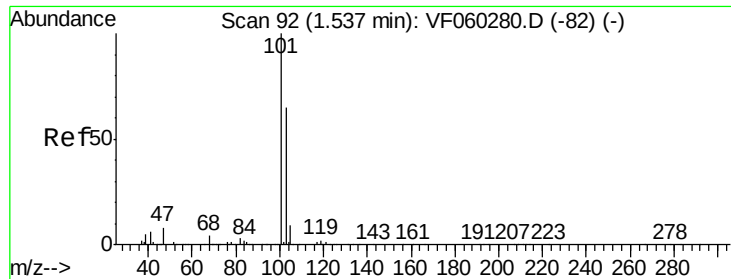
66 0.0 26.2 39.2#



Abundance Ion 64.00 (63.70 to 64.70): VF0

Ion 66.00 (65.70 to 66.70): VF0





#7

Trichlorofluoromethane

Concen: 1.009 ug/l

RT: 1.44 min Scan# 82

Delta R.T. -0.10 min

Lab File: VF060380.D

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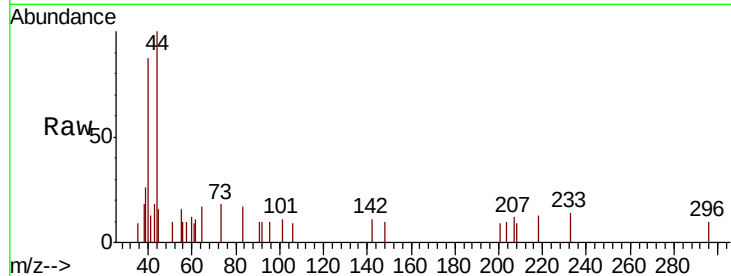
HC-SOIL-2

Tot Ion:101 Resp: 72

Ion Ratio Lower Upper

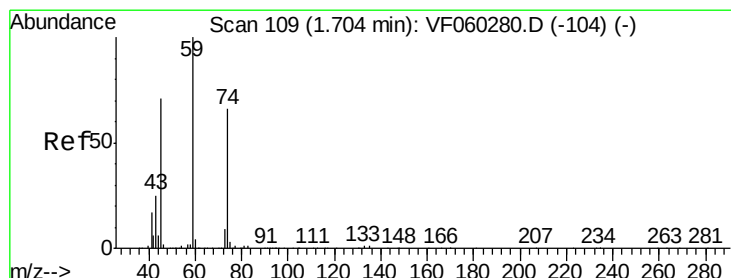
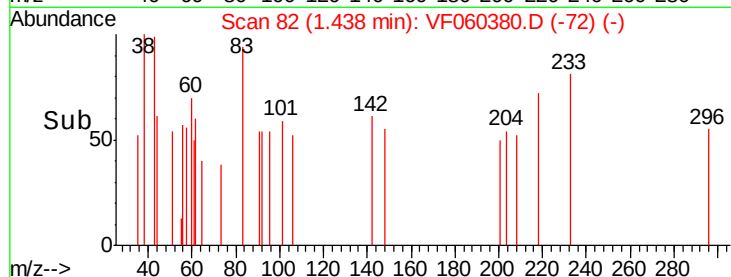
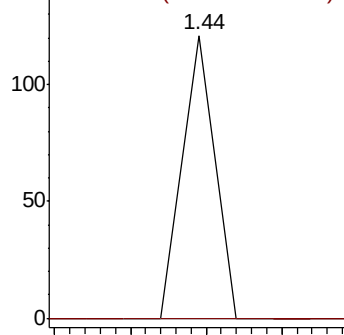
101 100

103 0.0 52.0 78.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#8

Diethyl Ether

Concen: 11.796 ug/l

RT: 1.79 min Scan# 118

Delta R.T. 0.09 min

Lab File: VF060380.D

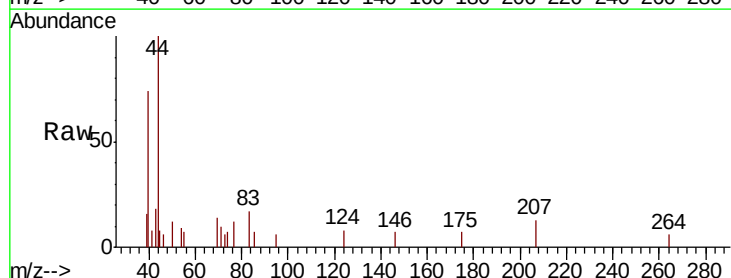
Acq: 28 Sep 2018 21:17

Tgt Ion: 74 Resp: 140

Ion Ratio Lower Upper

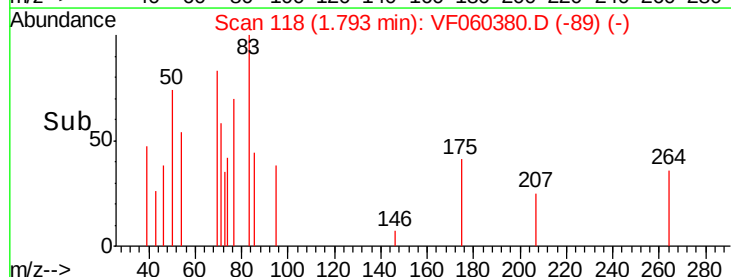
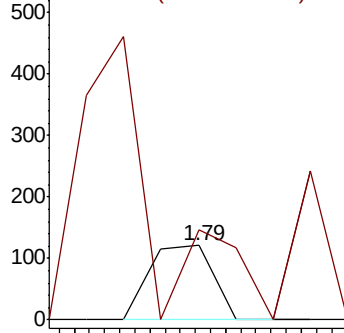
74 100

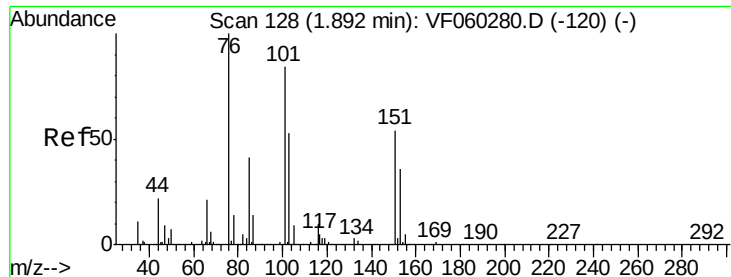
45 120.7 53.9 161.7



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.687 ug/l

RT: 1.94 min Scan# 133

Delta R.T. 0.05 min

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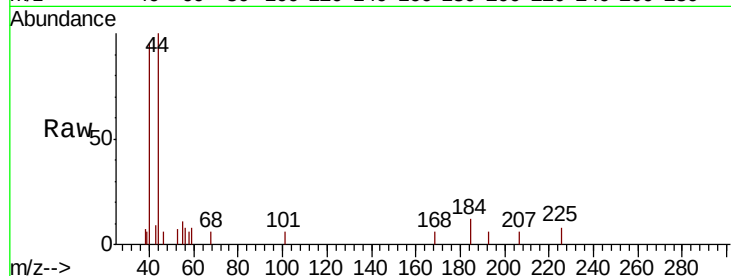
Tot Ion:101 Resp: 64

Ion Ratio Lower Upper

101 100

85 0.0 38.7 58.1#

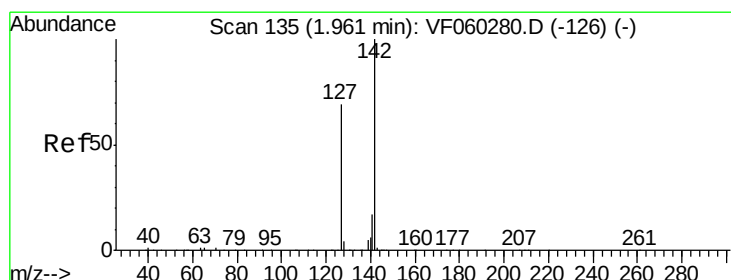
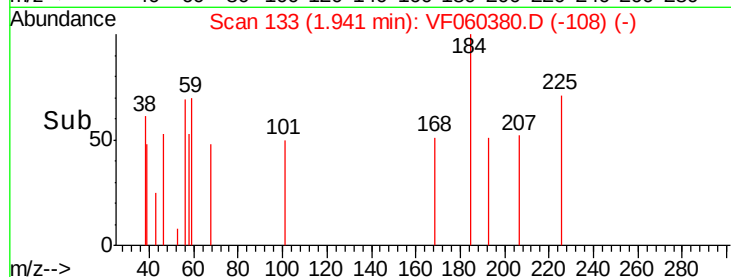
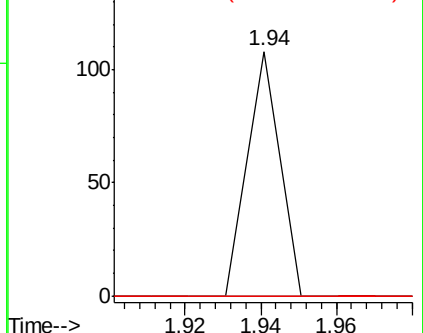
151 0.0 50.8 76.2#



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: 1.291 ug/l

RT: 1.99 min Scan# 138

Delta R.T. 0.03 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

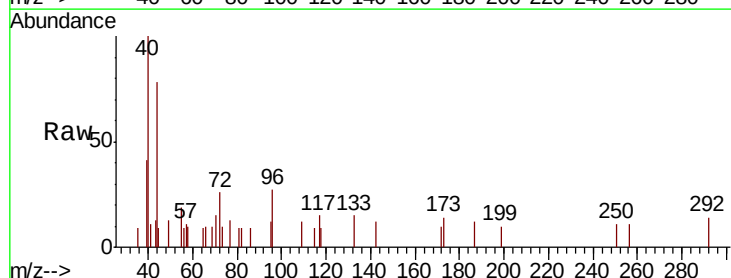
Tgt Ion:142 Resp: 79

Ion Ratio Lower Upper

142 100

127 0.0 55.4 83.0#

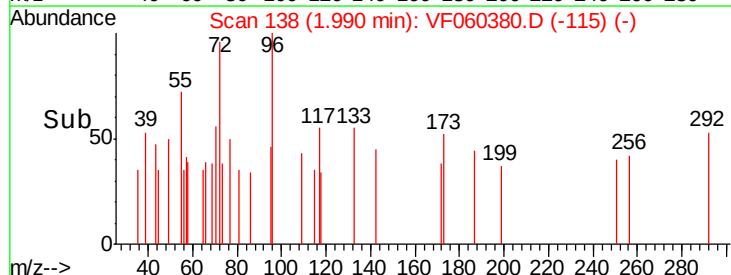
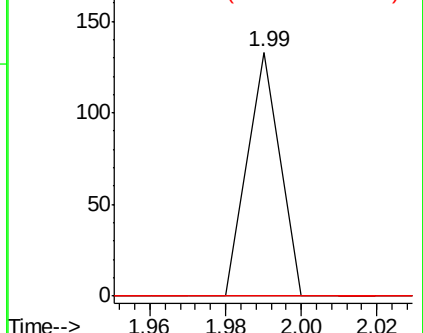
141 0.0 13.3 19.9#

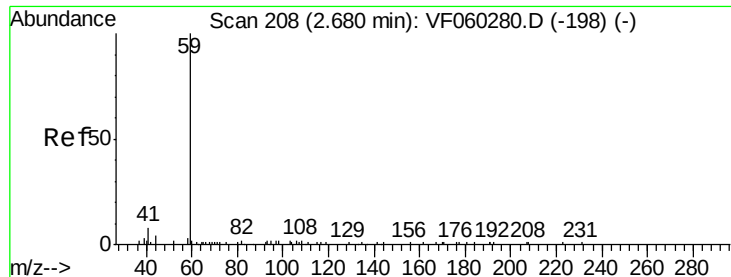


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 141.00 (140.70 to 141.70): V



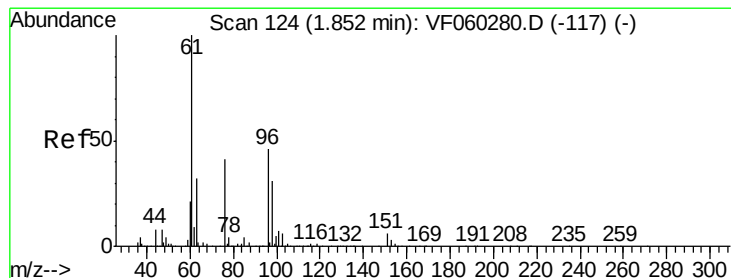
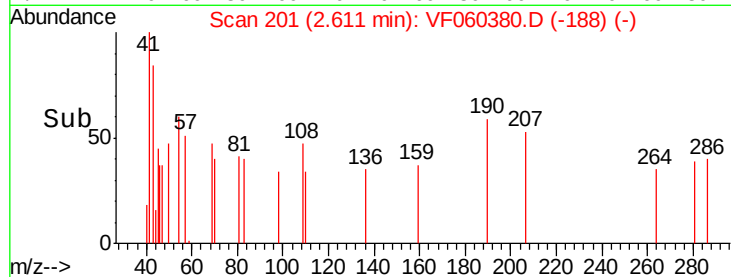
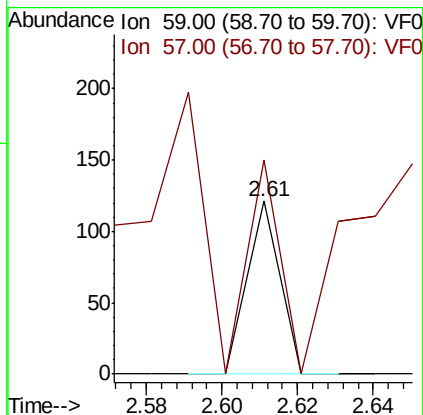
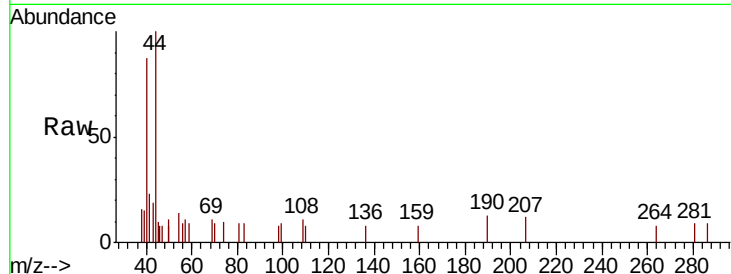


#11

Tert butyl alcohol
Concen: 19.330 ug/l
RT: 2.61 min Scan# 201
Delta R.T. -0.07 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

Instrument :
MSVOA_F
ClientSampled :
HC-SOIL-2

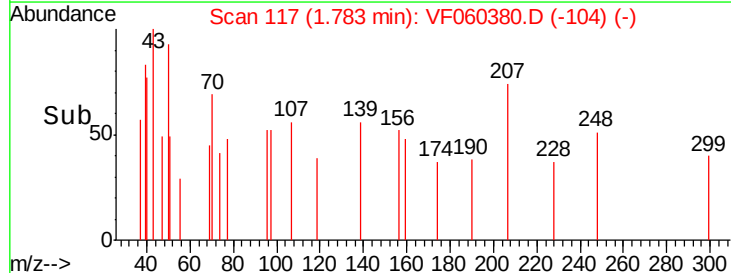
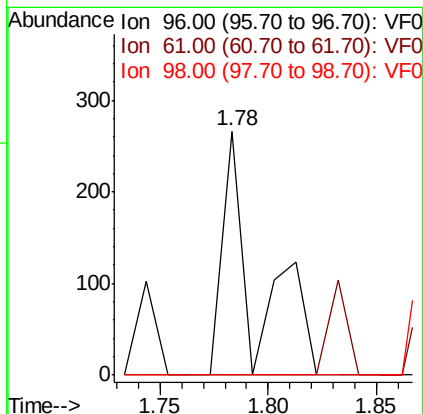
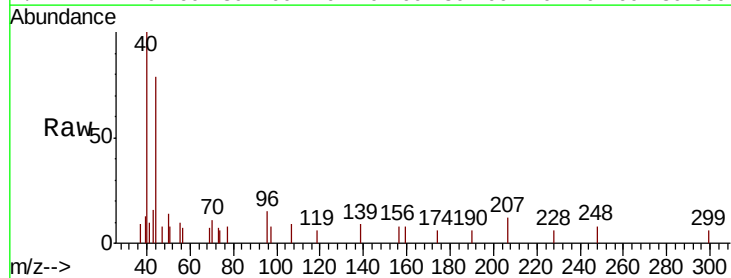
Tot Ion: 59 Resp: 72
Ion Ratio Lower Upper
59 100
57 124.0 12.4 18.6#

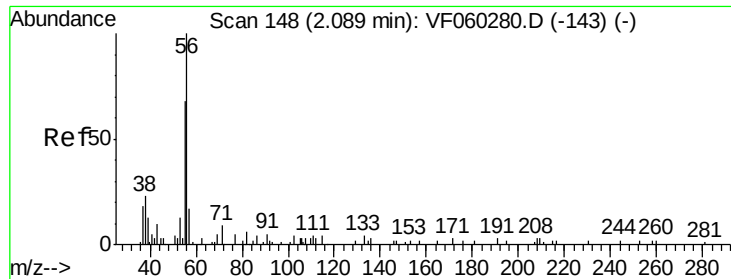


#12

1,1-Dichloroethene
Concen: 9.307 ug/l
RT: 1.78 min Scan# 117
Delta R.T. -0.07 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

Tgt Ion: 96 Resp: 292
Ion Ratio Lower Upper
96 100
61 0.0 172.2 258.2#
98 0.0 54.1 81.1#





#13

Acrolein

Concen: 269.365 ug/l

RT: 2.19 min Scan# 158

Delta R.T. 0.10 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

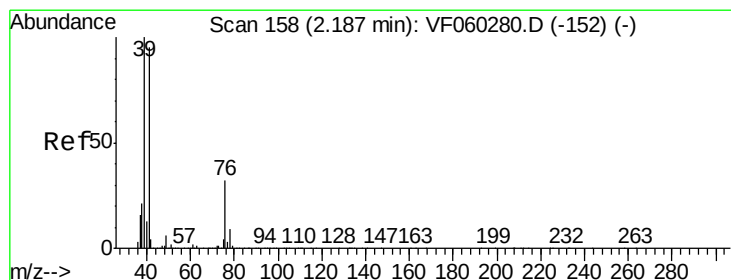
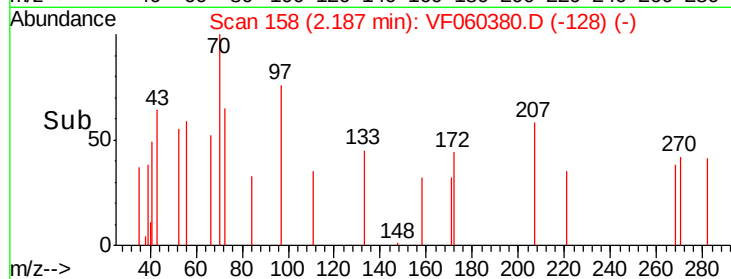
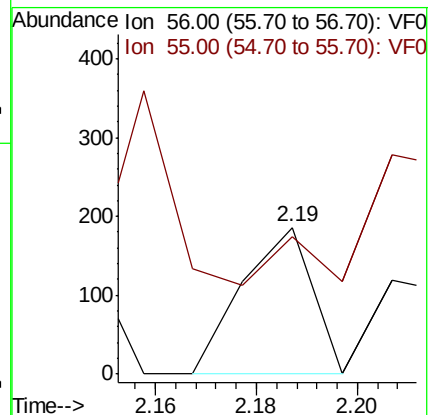
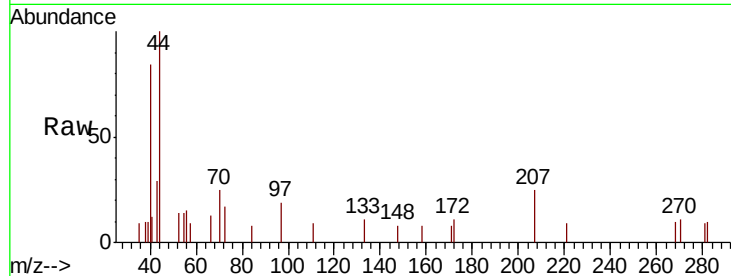
HC-SOIL-2

Tot Ion: 56 Resp: 179

Ion Ratio Lower Upper

56 100

55 94.1 69.9 104.9



#14

Allyl chloride

Concen: 12.493 ug/l

RT: 2.21 min Scan# 160

Delta R.T. 0.02 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

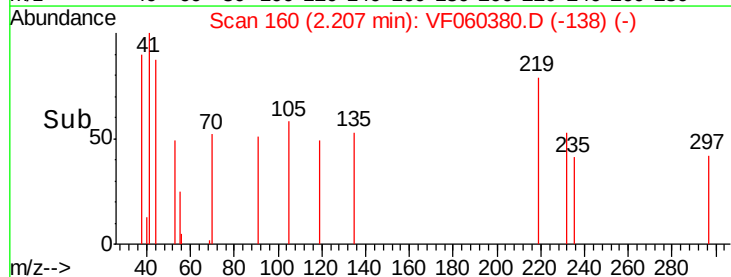
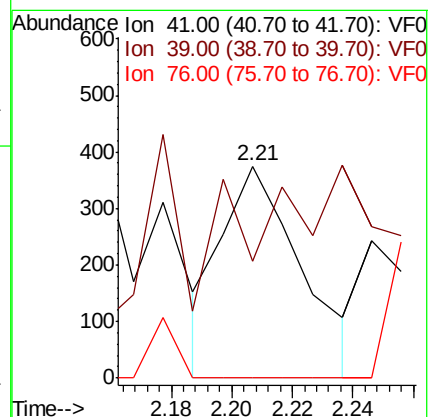
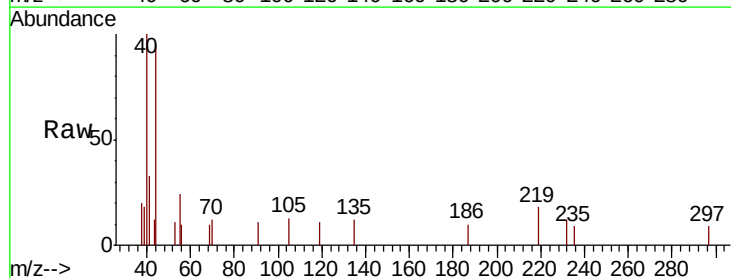
Tgt Ion: 41 Resp: 684

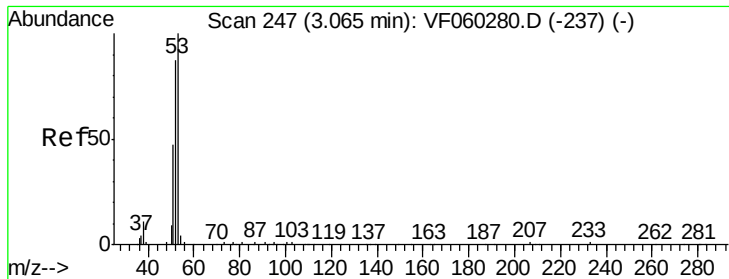
Ion Ratio Lower Upper

41 100

39 54.9 84.8 127.2#

76 0.0 27.4 41.2#





#15

Acrylonitrile

Concen: 19.645 ug/l

RT: 3.03 min Scan# 244

Delta R.T. -0.03 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

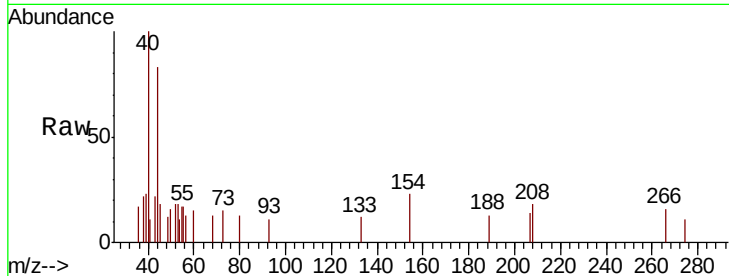
Tot Ion: 53 Resp: 103

Ion Ratio Lower Upper

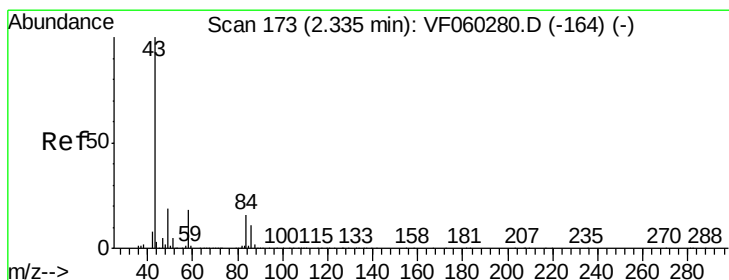
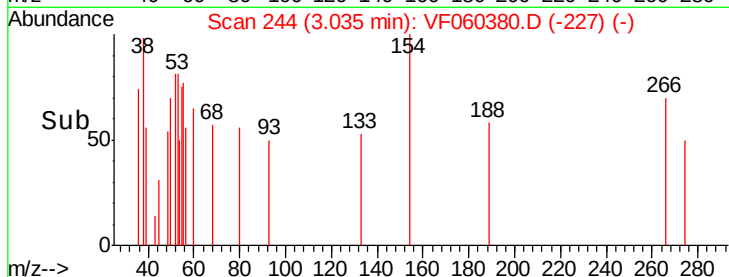
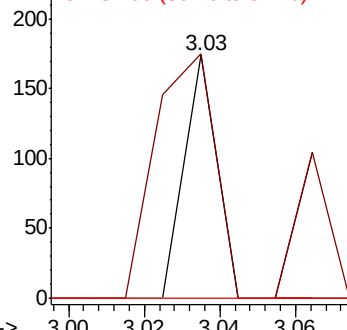
53 100

52 100.6 69.5 104.3

51 0.0 38.1 57.1#



Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 70.589 ug/l

RT: 2.35 min Scan# 175

Delta R.T. 0.02 min

Lab File: VF060380.D

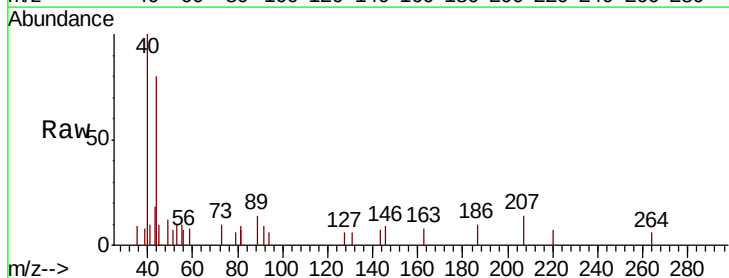
Acq: 28 Sep 2018 21:17

Tgt Ion: 43 Resp: 738

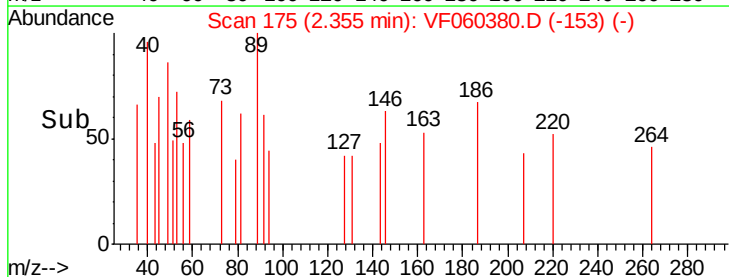
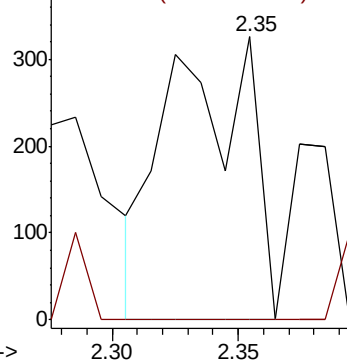
Ion Ratio Lower Upper

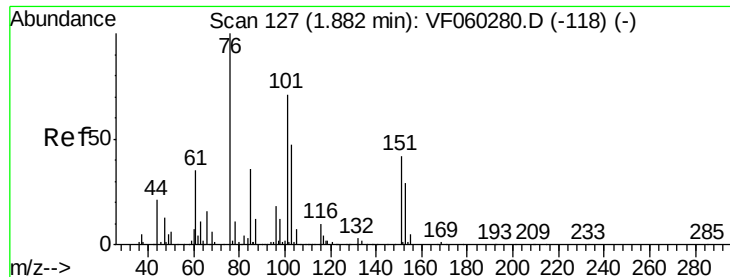
43 100

58 0.0 14.5 21.7#



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





#17

Carbon Disulfide

Concen: Below Cal

RT: 1.79 min Scan# 118

Delta R.T. -0.09 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

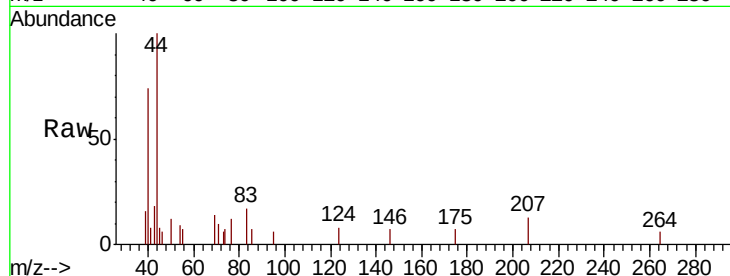
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-2

Tot Ion: 76 Resp: 121

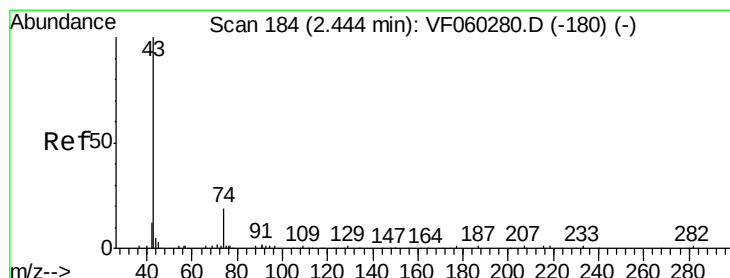
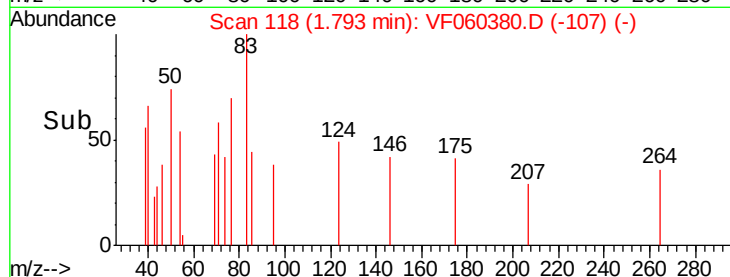
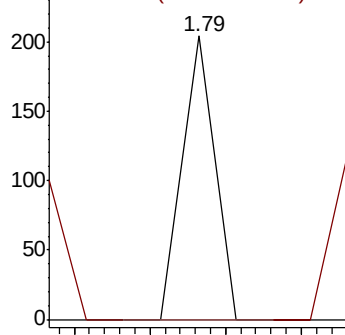
Ion Ratio Lower Upper

76 100

78 0.0 9.4 14.0#



Abundance Ion 76.00 (75.70 to 76.70): VF0
Ion 78.00 (77.70 to 78.70): VF0



#18

Methyl Acetate

Concen: 54.430 ug/l

RT: 2.43 min Scan# 183

Delta R.T. -0.01 min

Lab File: VF060380.D

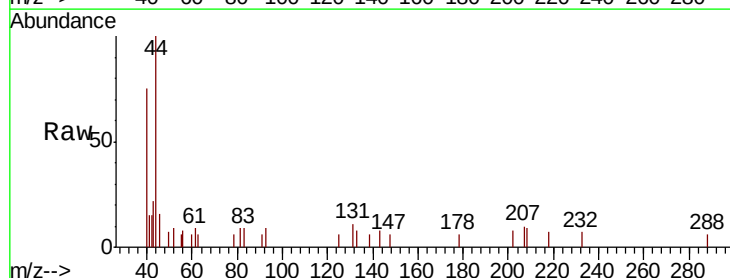
Acq: 28 Sep 2018 21:17

Tgt Ion: 43 Resp: 948

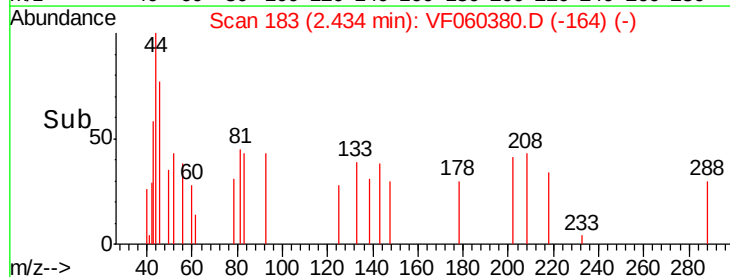
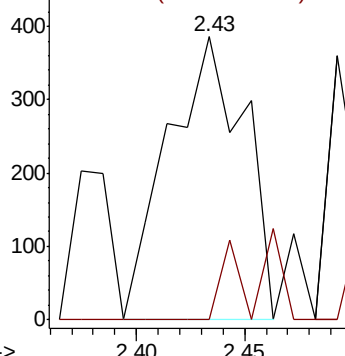
Ion Ratio Lower Upper

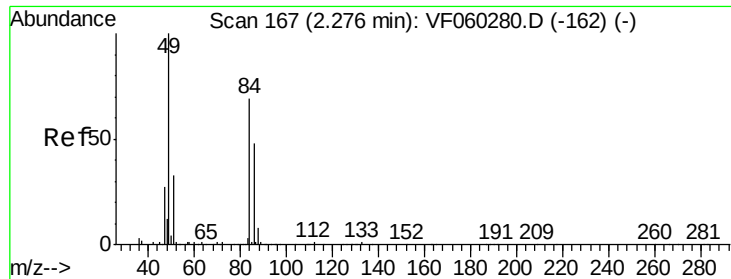
43 100

74 0.0 12.7 19.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 74.00 (73.70 to 74.70): VF0

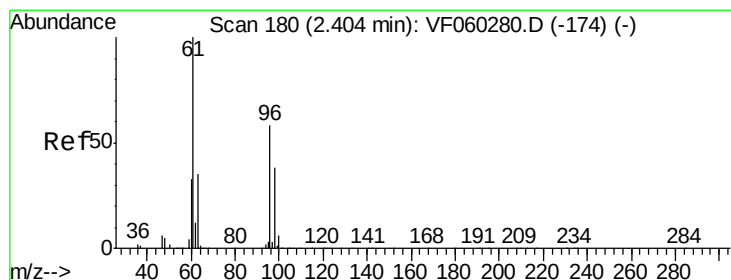
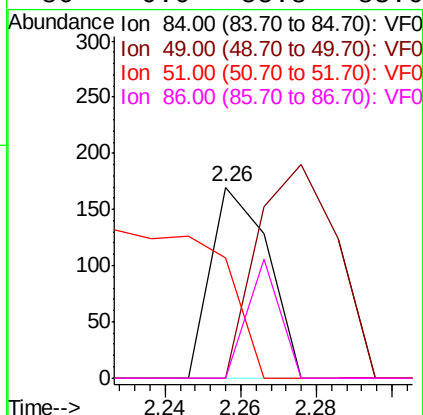
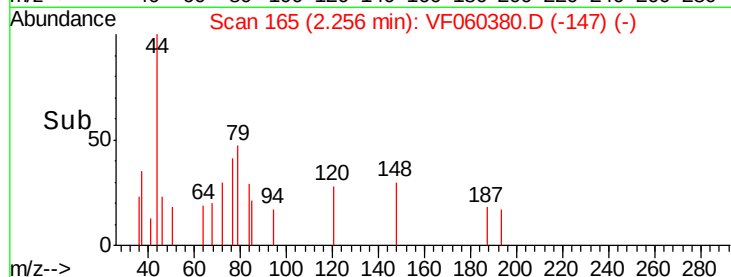
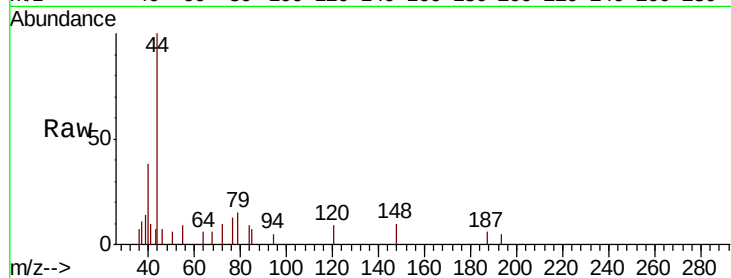




#20
Methylene Chloride
Concen: Below Cal
RT: 2.26 min Scan# 165
Delta R.T. -0.02 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

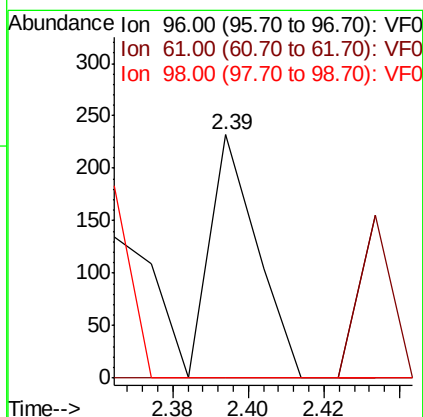
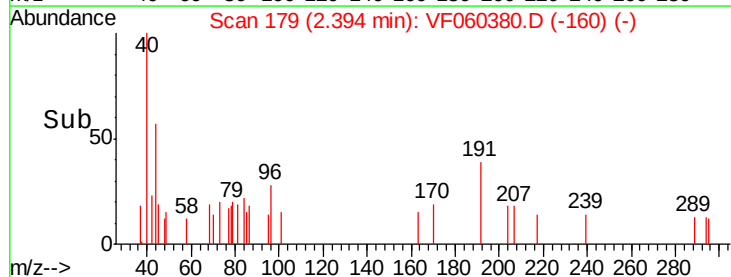
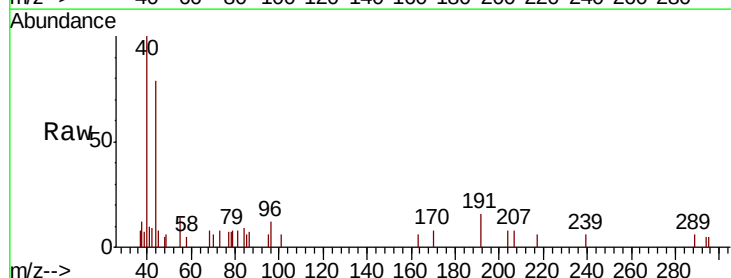
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-2

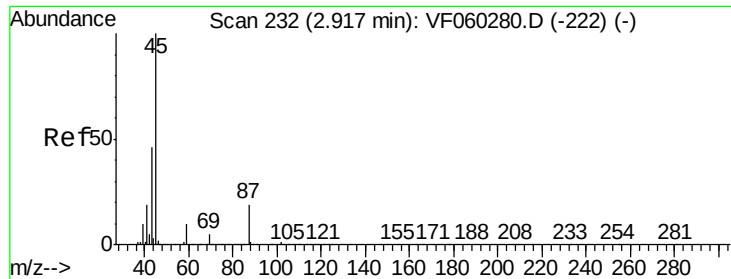
Tot Ion: 84 Resp: 177
Ion Ratio Lower Upper
84 100
49 0.0 118.3 177.5#
51 62.9 38.7 58.1#
86 0.0 55.8 83.6#



#21
trans-1,2-Dichloroethene
Concen: 6.141 ug/l
RT: 2.39 min Scan# 179
Delta R.T. -0.01 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

Tgt Ion: 96 Resp: 199
Ion Ratio Lower Upper
96 100
61 0.0 136.4 204.6#
98 0.0 51.8 77.6#





#22

Diisopropyl ether

Concen: 2.217 ug/l

RT: 2.91 min Scan# 231

Delta R.T. -0.01 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

Tot Ion: 45 Resp: 229

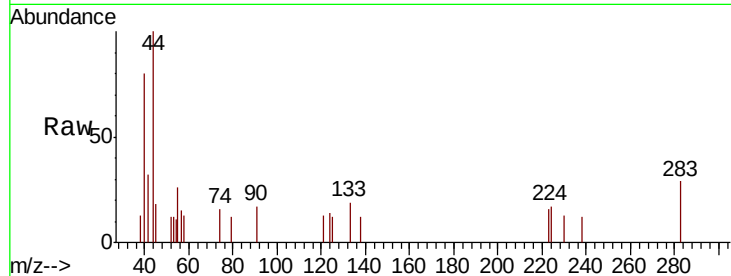
Ion Ratio Lower Upper

45 100

43 0.0 38.2 57.2#

87 0.0 15.5 23.3#

59 0.0 7.7 11.5#

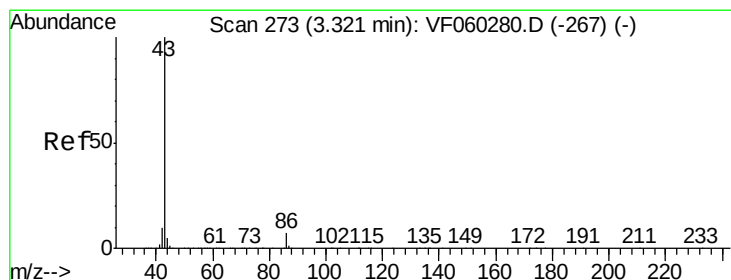
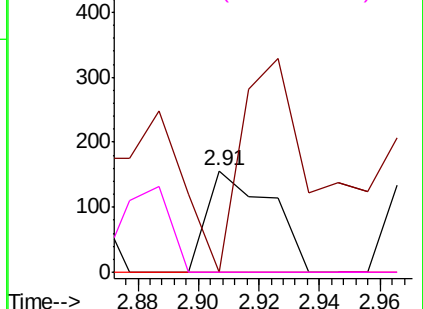
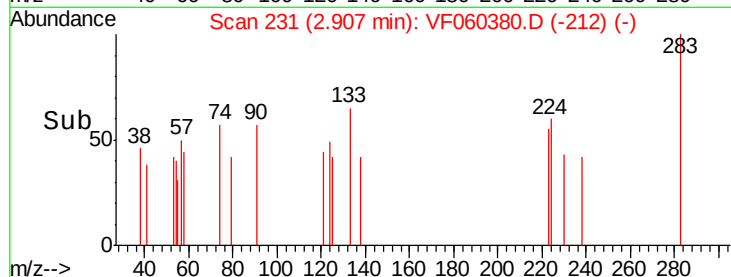


Abundance Ion 45.00 (44.70 to 45.70): VF0

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: 16.539 ug/l

RT: 3.30 min Scan# 271

Delta R.T. -0.02 min

Lab File: VF060380.D

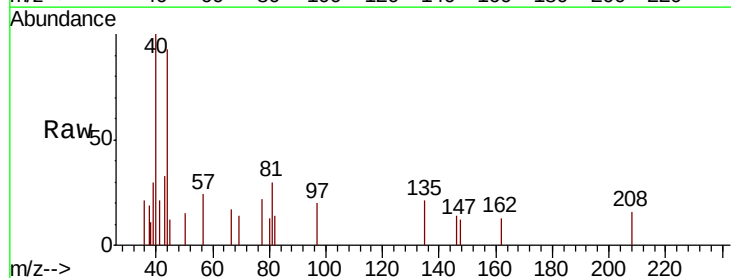
Acq: 28 Sep 2018 21:17

Tgt Ion: 43 Resp: 671

Ion Ratio Lower Upper

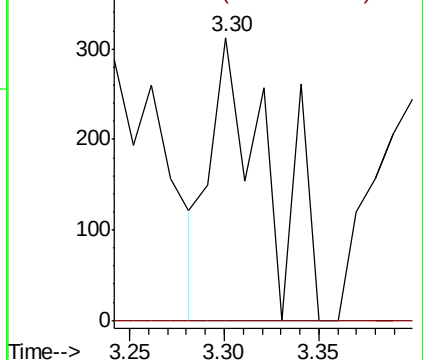
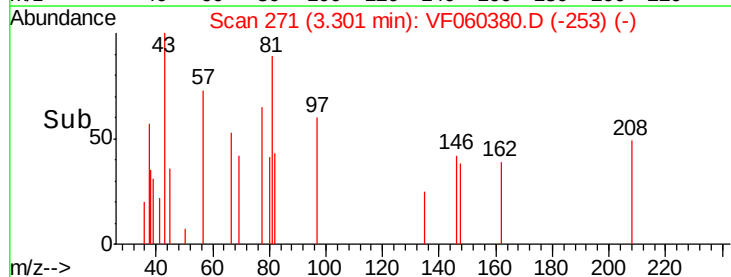
43 100

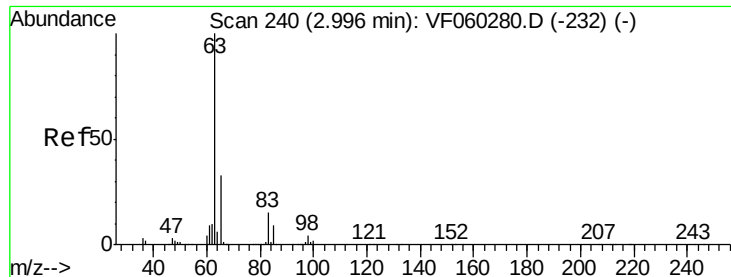
86 0.0 5.9 8.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0

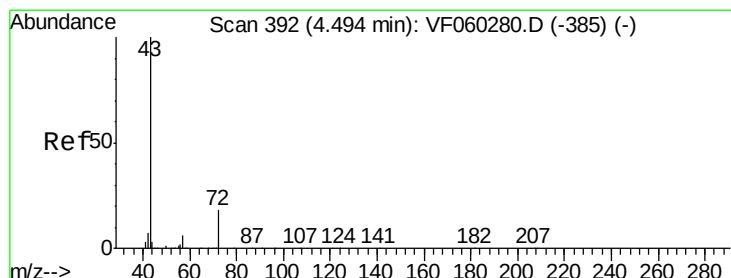
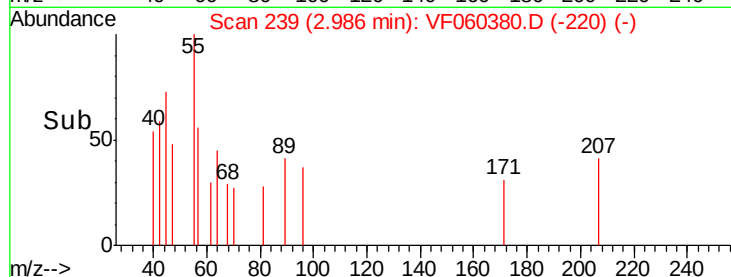
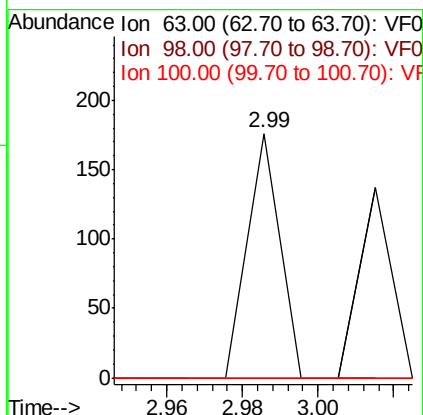
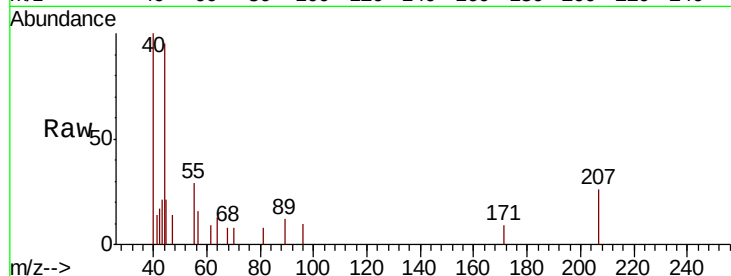




#24
 1,1-Dichloroethane
 Concen: 1.552 ug/l
 RT: 2.99 min Scan# 239
 Delta R.T. -0.01 min
 Lab File: VF060380.D
 Acq: 28 Sep 2018 21:17

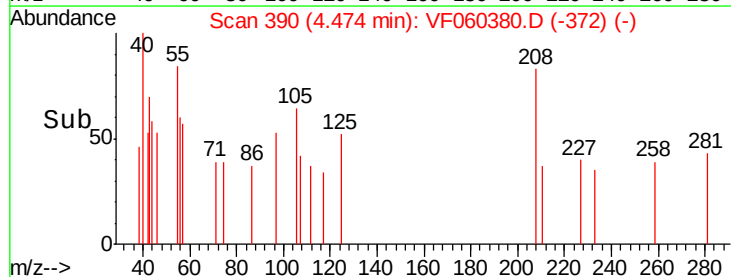
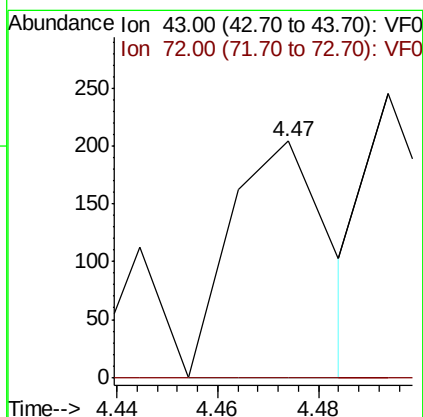
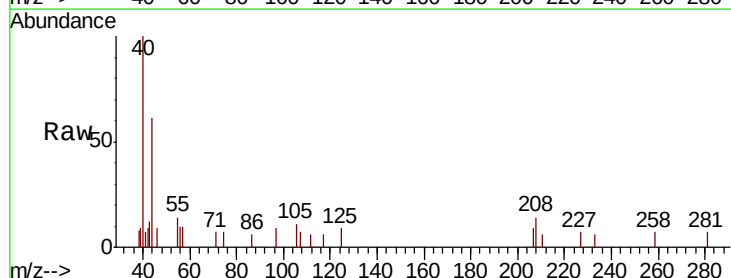
Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-2

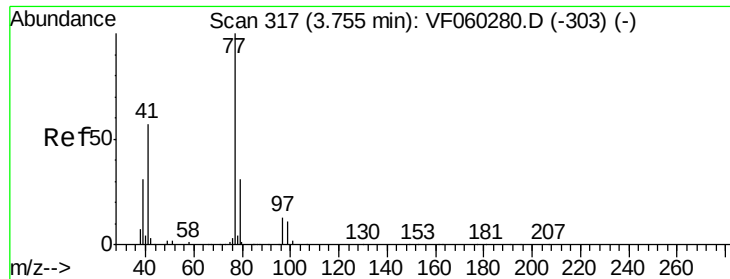
Tot Ion: 63 Resp: 104
 Ion Ratio Lower Upper
 63 100
 98 0.0 2.1 6.5#
 100 0.0 1.1 3.3#



#25
 2-Butanone
 Concen: 19.684 ug/l
 RT: 4.47 min Scan# 390
 Delta R.T. -0.02 min
 Lab File: VF060380.D
 Acq: 28 Sep 2018 21:17

Tgt Ion: 43 Resp: 277
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.2 24.2#





#26

2,2-Dichloropropane

Concen: 2.668 ug/l

RT: 3.73 min Scan# 315

Delta R.T. -0.02 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampled :

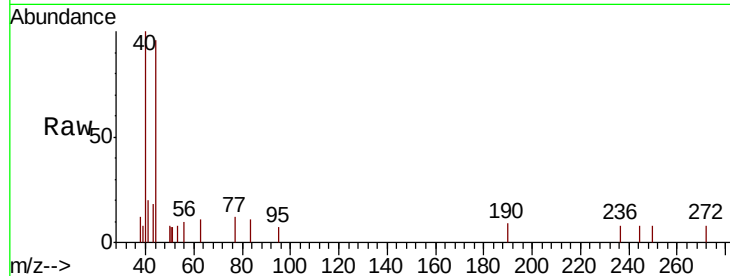
HC-SOIL-2

Tot Ion: 77 Resp: 102

Ion Ratio Lower Upper

77 100

97 0.0 9.3 27.9#



Abundance Ion 77.00 (76.70 to 77.70): VF0

Ion 97.00 (96.70 to 97.70): VF0

3.73

150

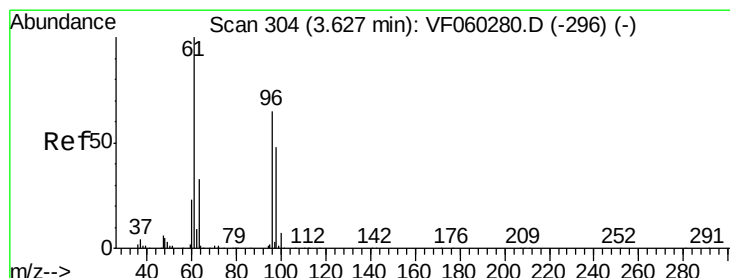
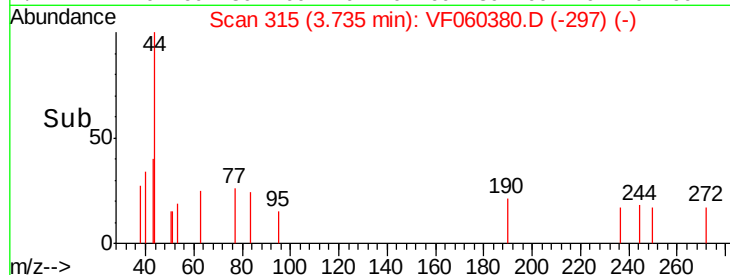
100

50

0

3.70 3.72 3.74 3.76

Time-->



#27

cis-1,2-Dichloroethene

Concen: 4.393 ug/l

RT: 3.66 min Scan# 307

Delta R.T. 0.03 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

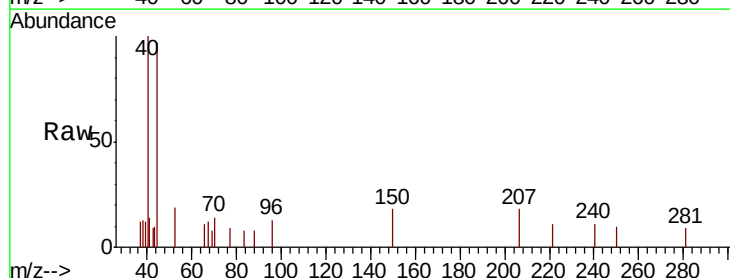
Tgt Ion: 96 Resp: 187

Ion Ratio Lower Upper

96 100

61 0.0 0.0 304.8

98 0.0 0.0 146.4



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

3.66

150

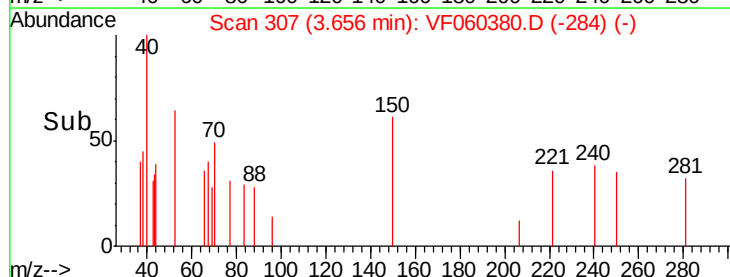
100

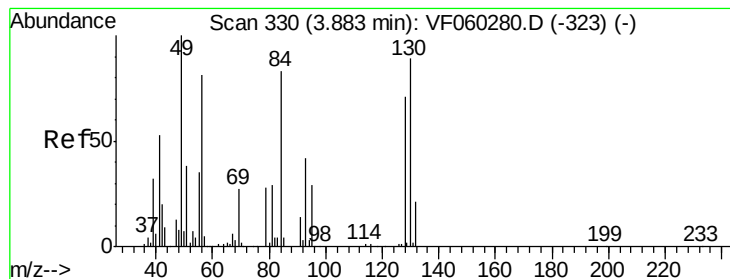
50

0

3.60 3.65

Time-->





#28

Bromochloromethane

Concen: 2.415 ug/l

RT: 3.84 min Scan# 326

Delta R.T. -0.04 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

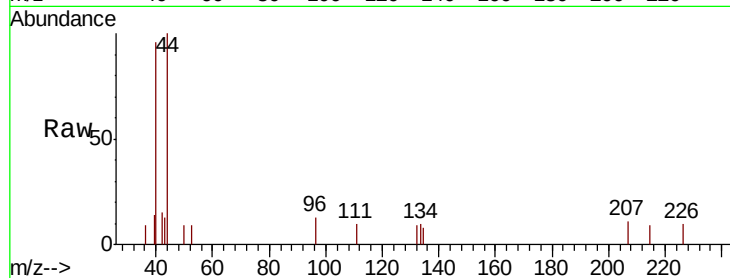
Tot Ion: 49 Resp: 63

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

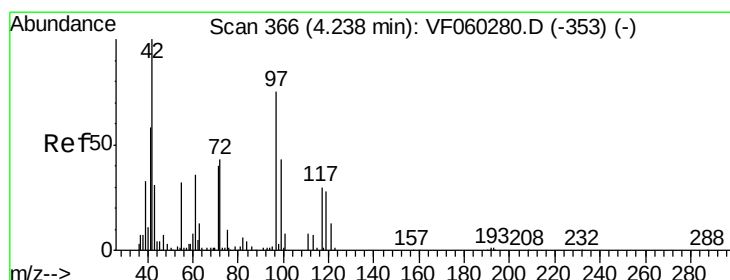
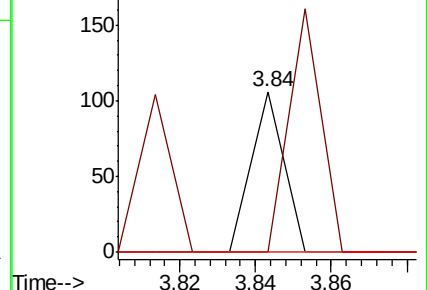
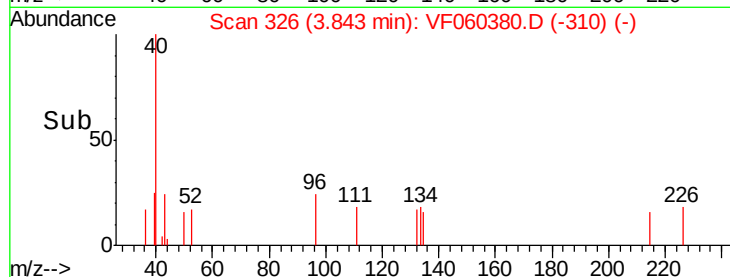
130 0.0 70.3 105.5#



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: 42.497 ug/l

RT: 4.25 min Scan# 367

Delta R.T. 0.01 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

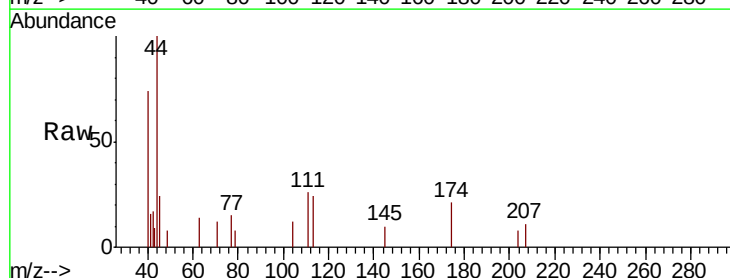
Tgt Ion: 42 Resp: 219

Ion Ratio Lower Upper

42 100

72 27.9 32.6 49.0#

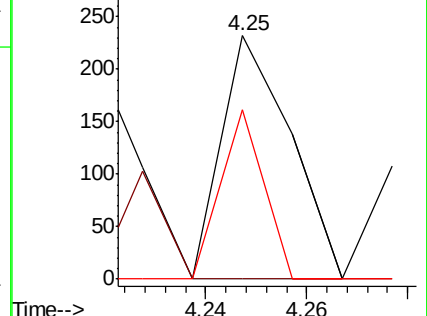
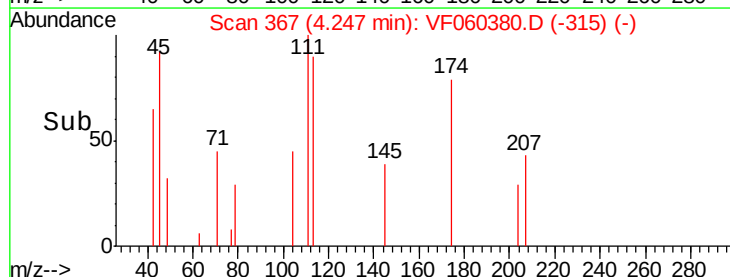
71 43.4 32.7 49.1

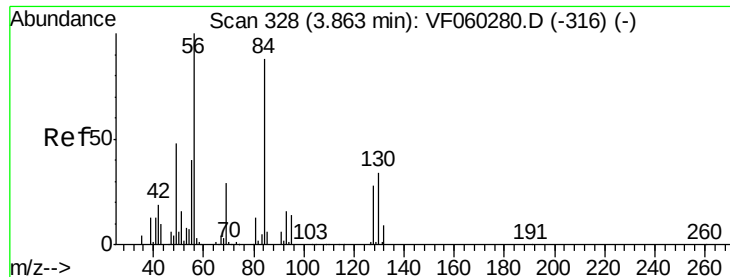


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0

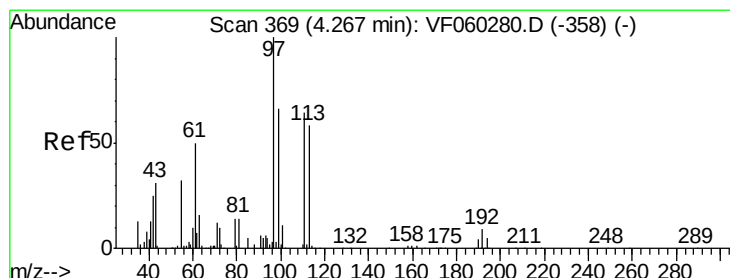
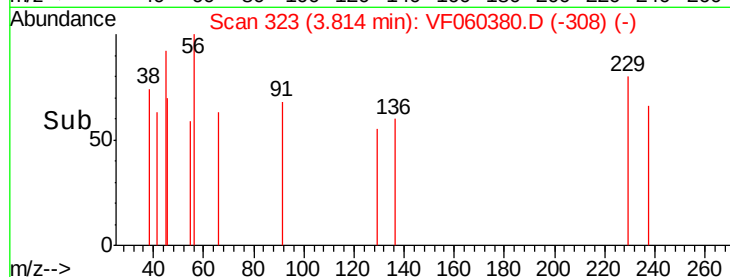
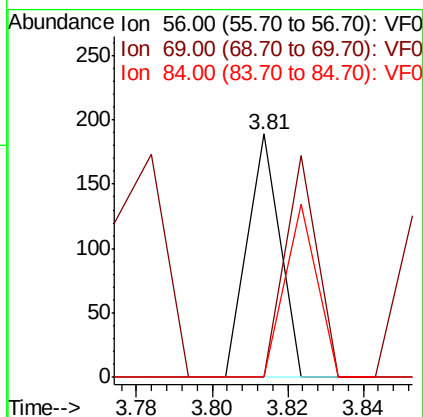
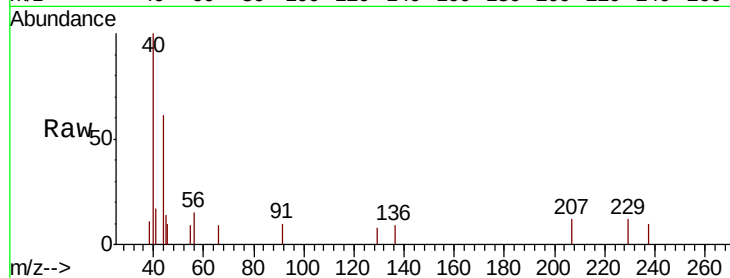




#31
Cyclohexane
Concen: 1.979 ug/l
RT: 3.81 min Scan# 323
Delta R.T. -0.05 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

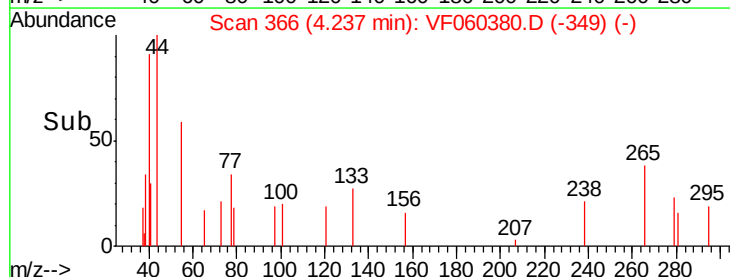
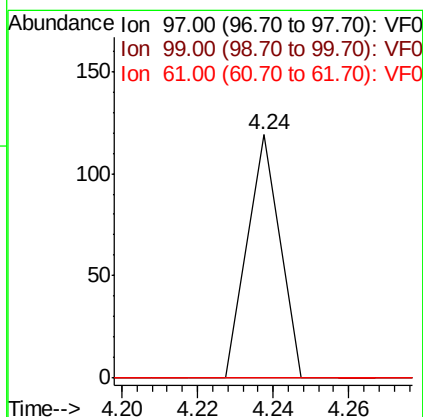
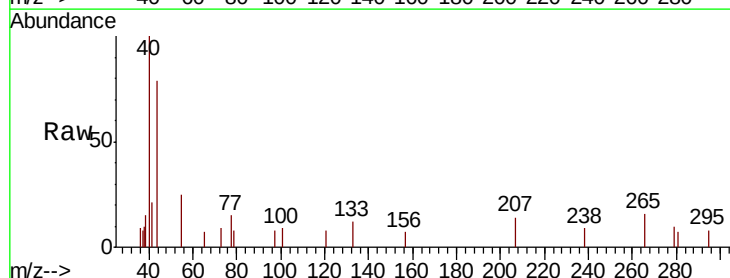
Instrument :
MSVOA_F
ClientSampled :
HC-SOIL-2

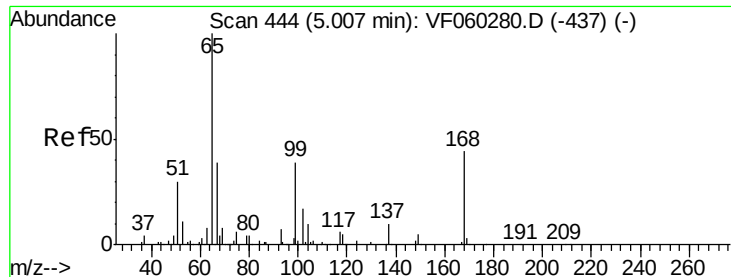
Tot Ion: 56 Resp: 112
Ion Ratio Lower Upper
56 100
69 0.0 23.8 35.6#
84 0.0 70.2 105.4#



#32
1,1,1-Trichloroethane
Concen: 1.097 ug/l
RT: 4.24 min Scan# 366
Delta R.T. -0.03 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

Tgt Ion: 97 Resp: 70
Ion Ratio Lower Upper
97 100
99 0.0 53.0 79.4#
61 0.0 40.6 61.0#





#33

1,2-Dichloroethane-d4

Concen: 13.792 ug/l

RT: 4.98 min Scan# 441

Delta R.T. -0.03 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampled :

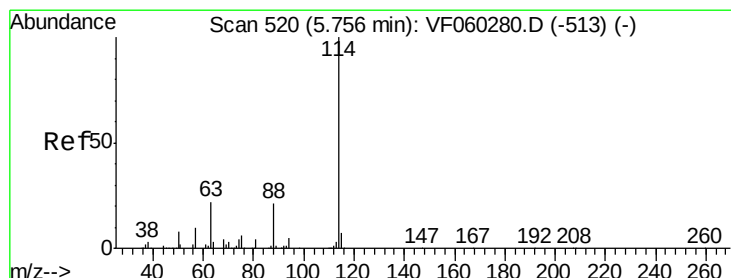
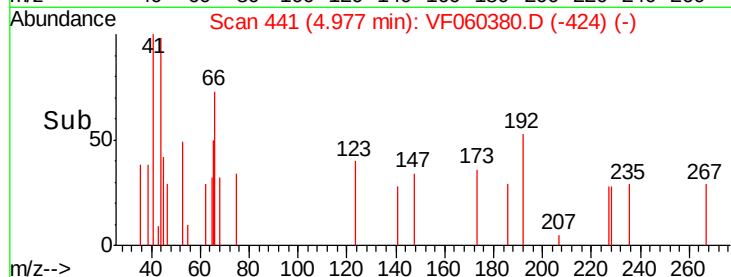
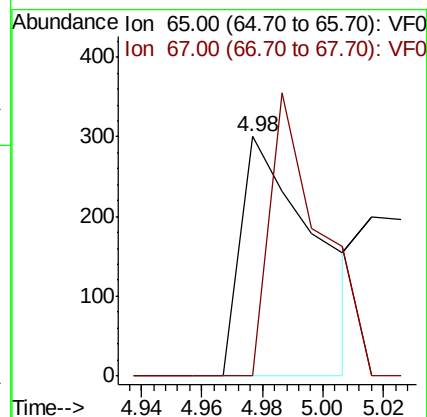
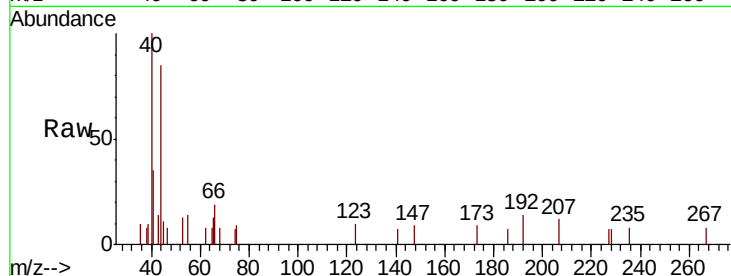
HC-SOIL-2

Tot Ion: 65 Resp: 512

Ion Ratio Lower Upper

65 100

67 0.0 0.0 94.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.76 min Scan# 520

Delta R.T. -0.00 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

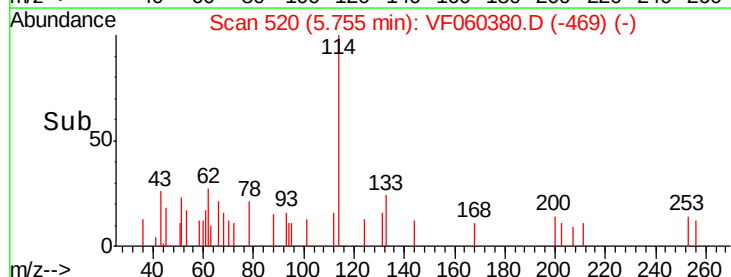
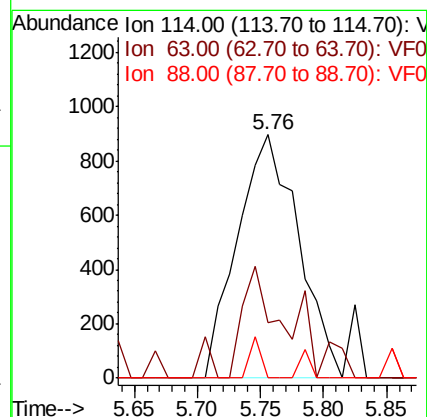
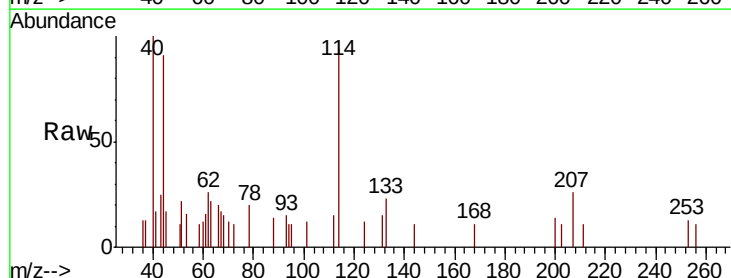
Tgt Ion:114 Resp: 3019

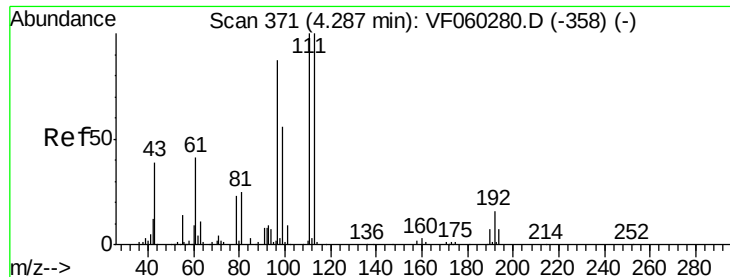
Ion Ratio Lower Upper

114 100

63 23.0 0.0 43.8

88 0.0 0.0 41.2





#35

Dibromofluoromethane

Concen: 44.292 ug/l

RT: 4.27 min Scan# 369

Delta R.T. -0.02 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

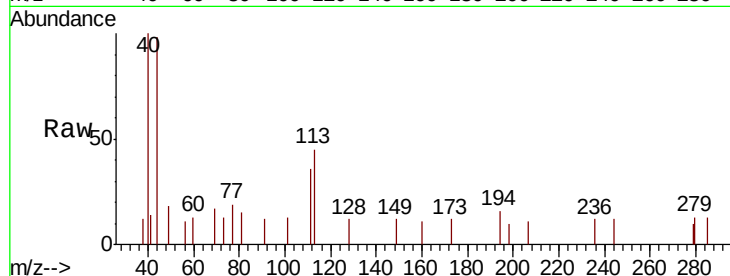
Tot Ion:113 Resp: 1192

Ion Ratio Lower Upper

113 100

111 79.2 79.6 119.4#

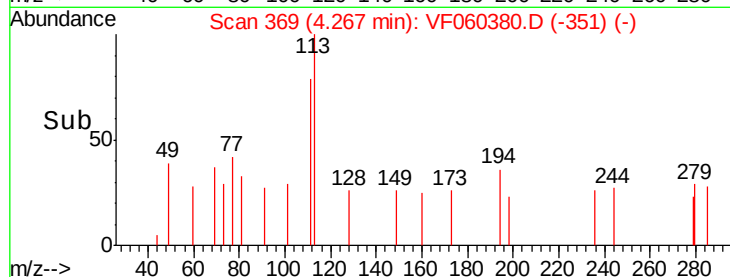
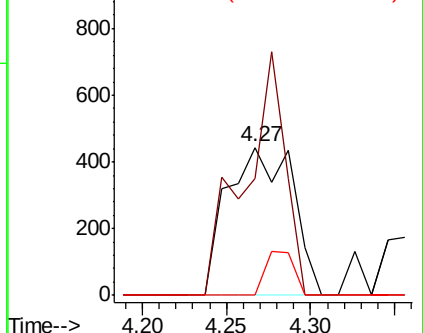
192 0.0 13.0 19.6#



Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V



#36

1,1-Dichloropropene

Concen: 3.611 ug/l

RT: 4.46 min Scan# 389

Delta R.T. 0.01 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

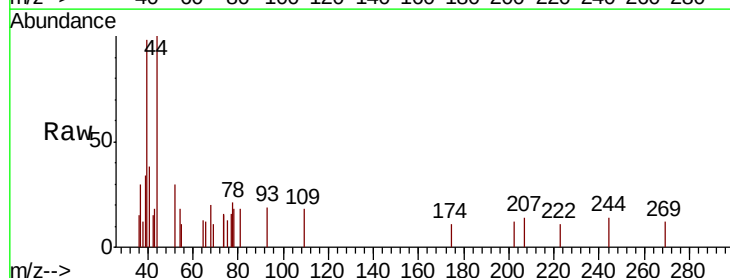
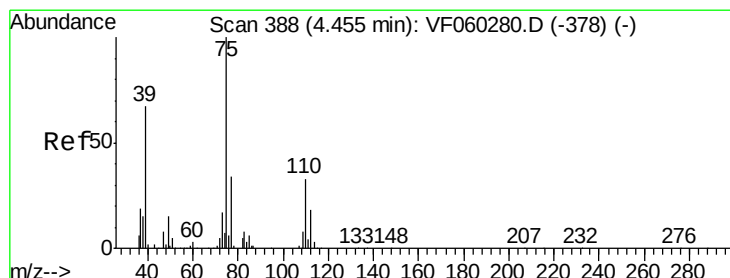
Tgt Ion: 75 Resp: 136

Ion Ratio Lower Upper

75 100

110 0.0 16.4 49.2#

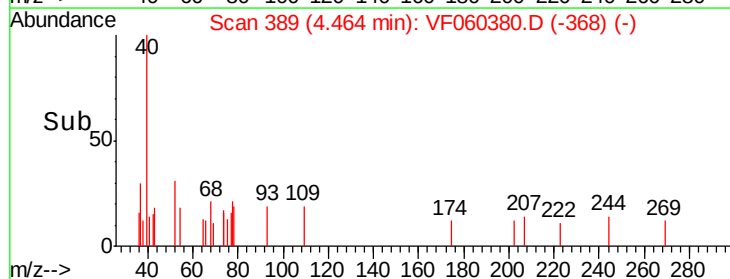
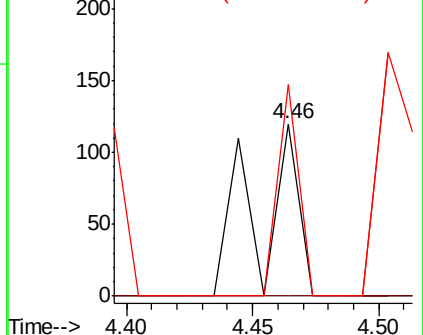
77 122.5 27.3 40.9#

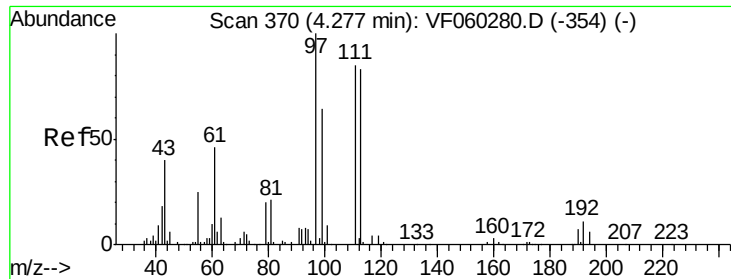


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0

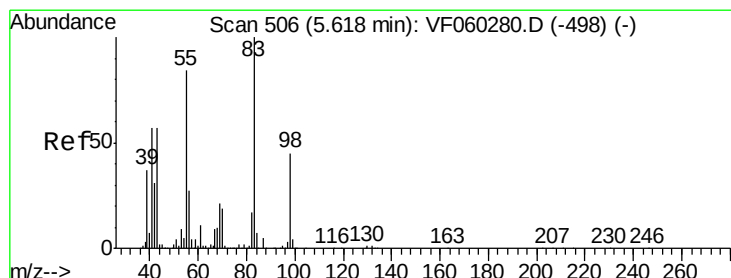
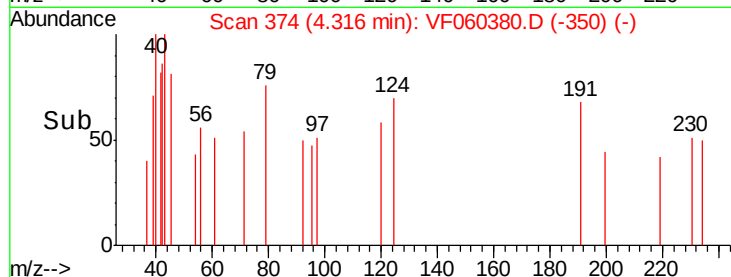
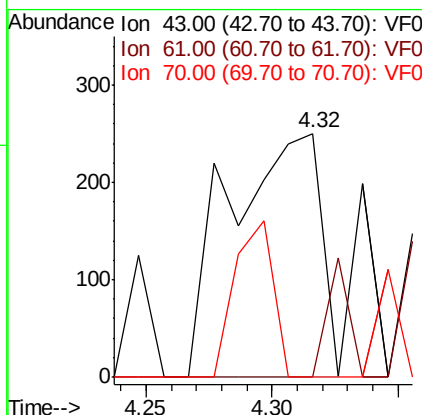
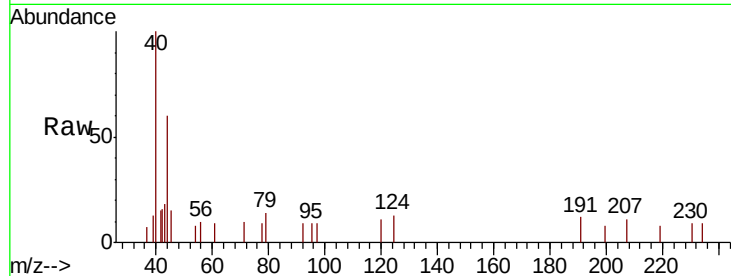




#37
Ethyl Acetate
Concen: 39.663 ug/l
RT: 4.32 min Scan# 374
Delta R.T. 0.04 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

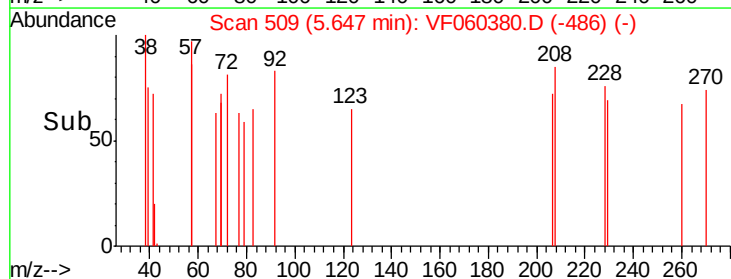
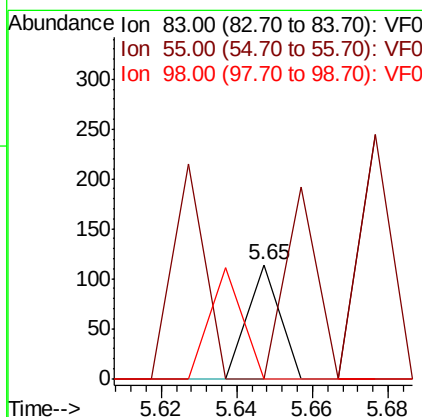
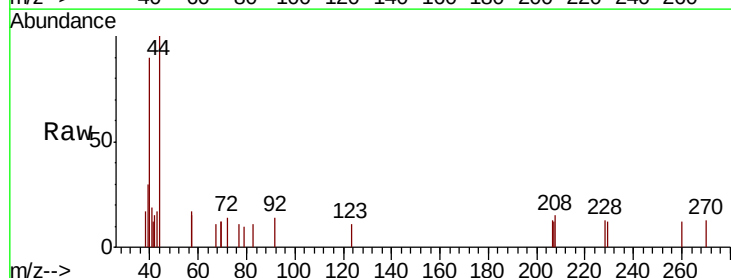
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-2

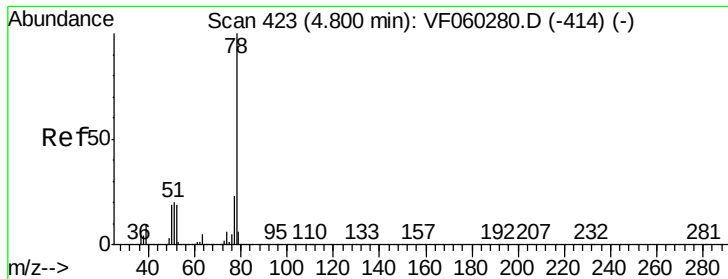
Tot Ion: 43 Resp: 632
Ion Ratio Lower Upper
43 100
61 0.0 91.1 136.7#
70 0.0 6.9 10.3#



#39
Methylcyclohexane
Concen: 1.642 ug/l
RT: 5.65 min Scan# 509
Delta R.T. 0.03 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

Tgt Ion: 83 Resp: 67
Ion Ratio Lower Upper
83 100
55 0.0 67.3 100.9#
98 0.0 36.1 54.1#





#40

Benzene

Concen: 1.686 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.06 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampled :

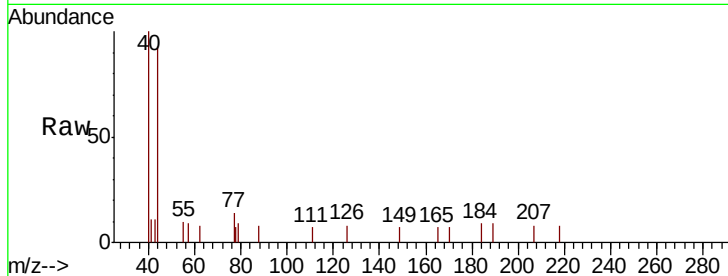
HC-SOIL-2

Tot Ion: 78 Resp: 144

Ion Ratio Lower Upper

78 100

77 82.4 18.4 27.6#



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0

4.86

250

200

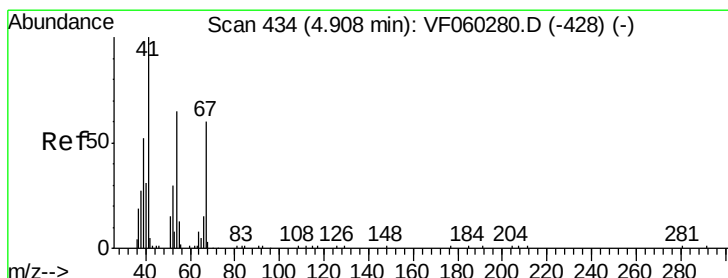
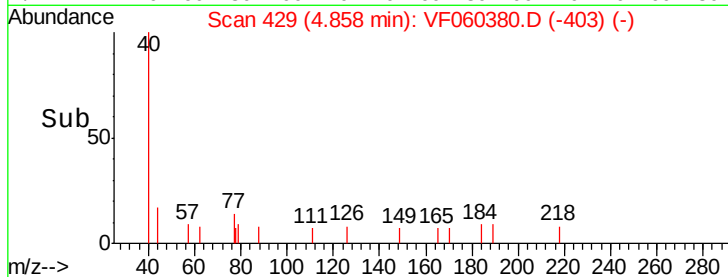
150

100

50

0

Time-->



#41

Methacrylonitrile

Concen: 93.336 ug/l

RT: 4.89 min Scan# 432

Delta R.T. -0.02 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Tgt Ion: 41 Resp: 807

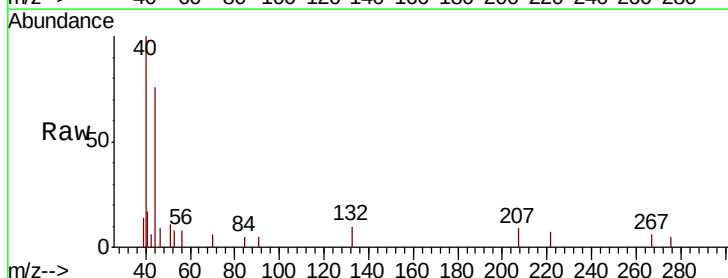
Ion Ratio Lower Upper

41 100

39 78.3 49.1 73.7#

67 0.0 48.2 72.4#

52 0.0 35.8 53.8#



Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

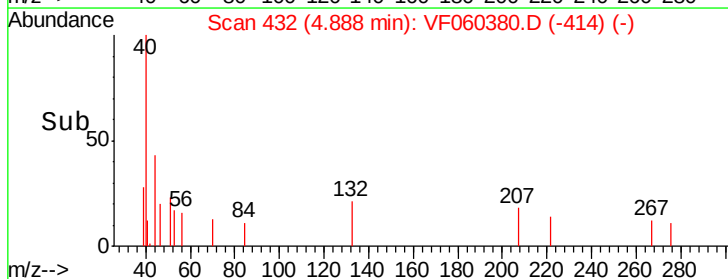
600

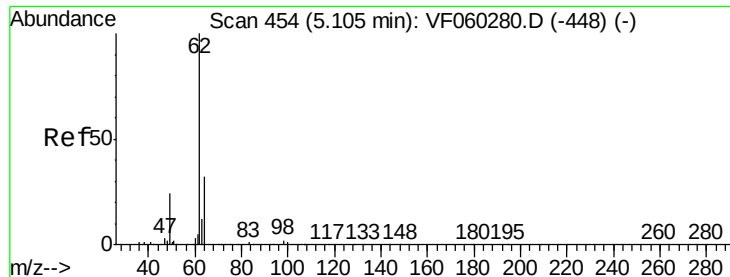
400

200

0

Time-->





#42

1,2-Dichloroethane

Concen: 2.386 ug/l

RT: 5.09 min Scan# 453

Delta R.T. -0.01 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

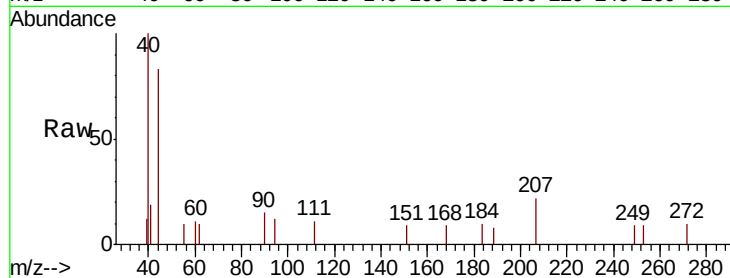
HC-SOIL-2

Tot Ion: 62 Resp: 75

Ion Ratio Lower Upper

62 100

98 0.0 0.0 14.4



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

5.09

150

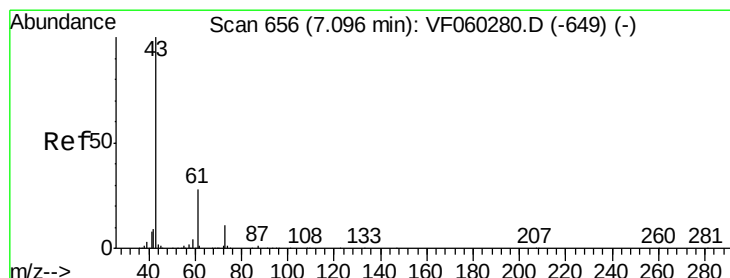
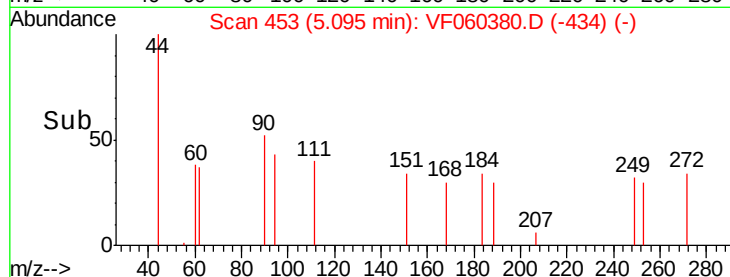
100

50

0

5.08 5.10 5.12

Time-->



#43

Isopropyl Acetate

Concen: 38.056 ug/l

RT: 7.11 min Scan# 657

Delta R.T. 0.01 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

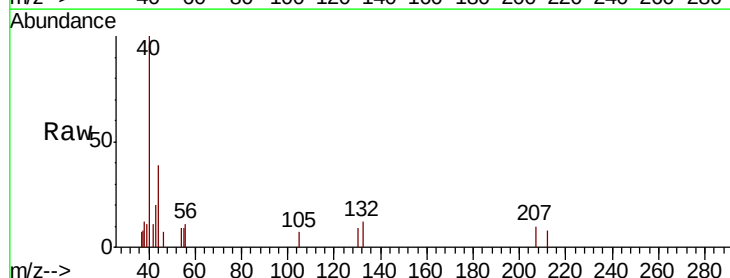
Tgt Ion: 43 Resp: 730

Ion Ratio Lower Upper

43 100

61 0.0 22.4 33.6#

87 0.0 0.6 0.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

1500

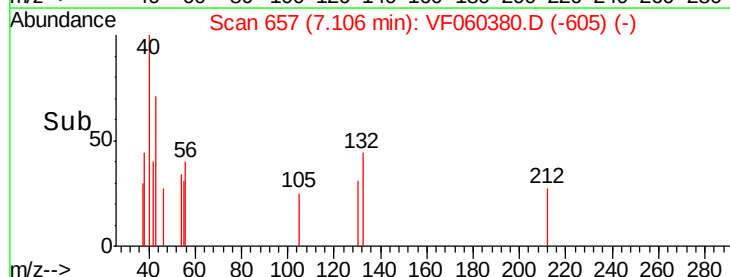
1000

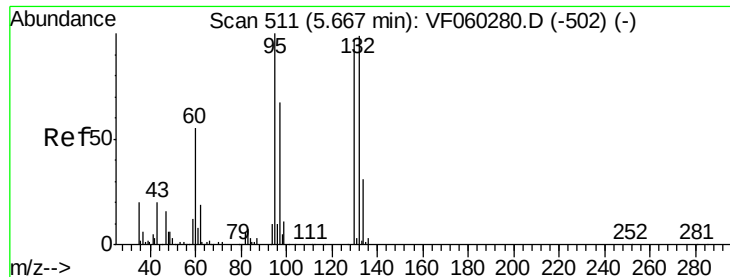
500

0

7.05 7.10

Time-->





#44

Trichloroethene

Concen: 2.518 ug/l

RT: 5.79 min Scan# 524

Delta R.T. 0.13 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampled :

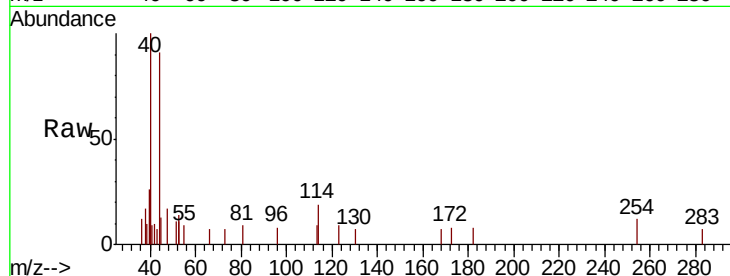
HC-SOIL-2

Tot Ion:130 Resp: 64

Ion Ratio Lower Upper

130 100

95 0.0 0.0 205.6



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VF0

5.79

100

80

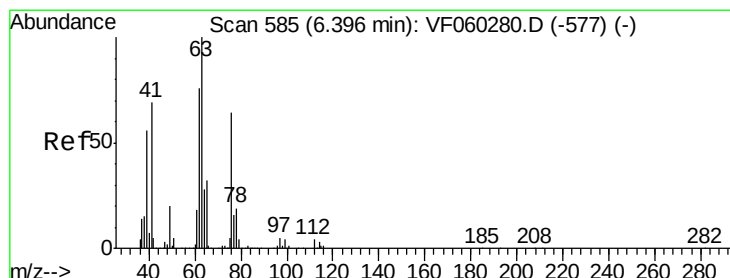
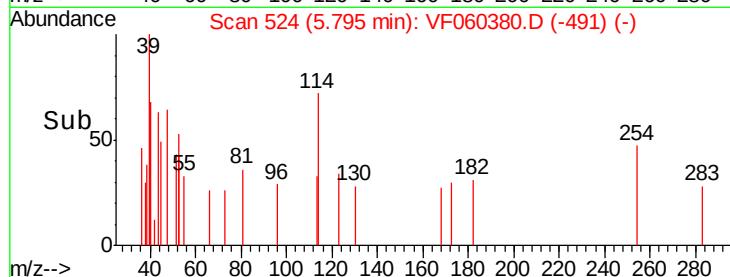
60

40

20

0

Time-->



#45

1,2-Dichloropropane

Concen: 3.575 ug/l

RT: 6.39 min Scan# 584

Delta R.T. -0.01 min

Lab File: VF060380.D

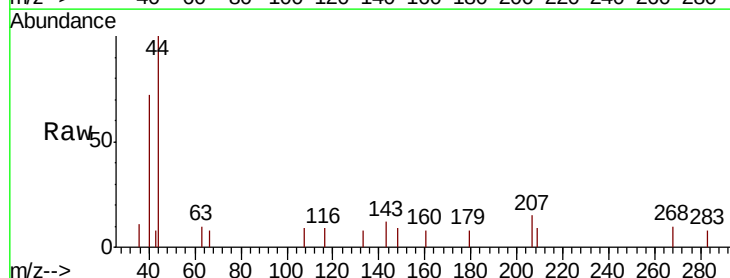
Acq: 28 Sep 2018 21:17

Tgt Ion: 63 Resp: 79

Ion Ratio Lower Upper

63 100

65 0.0 26.2 39.4#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

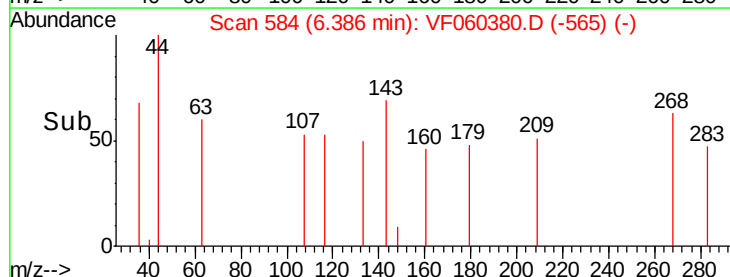
150

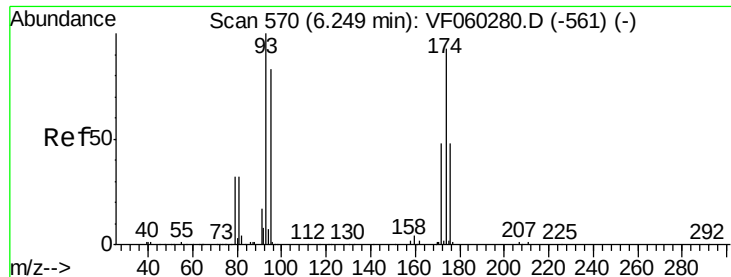
100

50

0

Time-->





#46

Dibromomethane

Concen: 5.634 ug/l

RT: 6.25 min Scan# 570

Delta R.T. -0.00 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

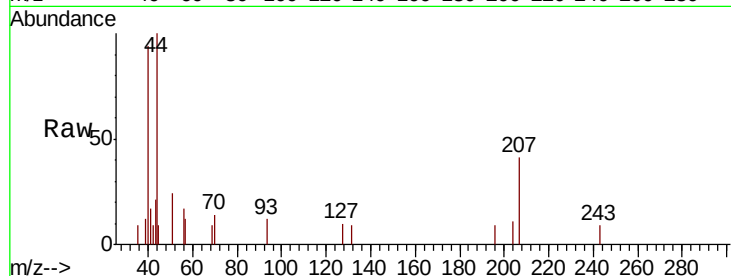
Tot Ion: 93 Resp: 89

Ion Ratio Lower Upper

93 100

95 0.0 67.0 100.6#

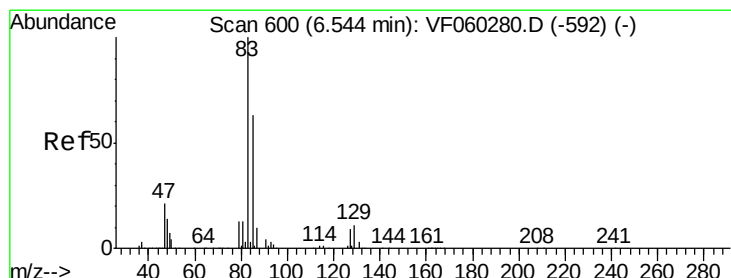
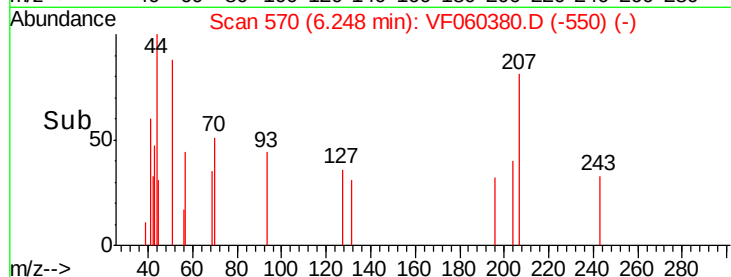
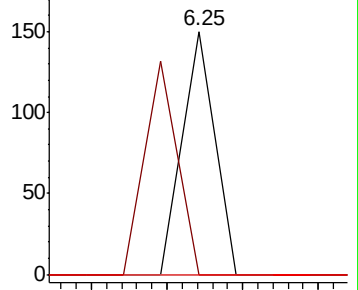
174 0.0 74.8 112.2#



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: 1.607 ug/l

RT: 6.56 min Scan# 602

Delta R.T. 0.02 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

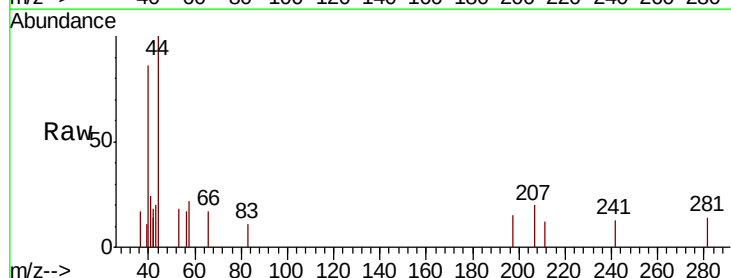
Tgt Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

85 0.0 50.6 76.0#

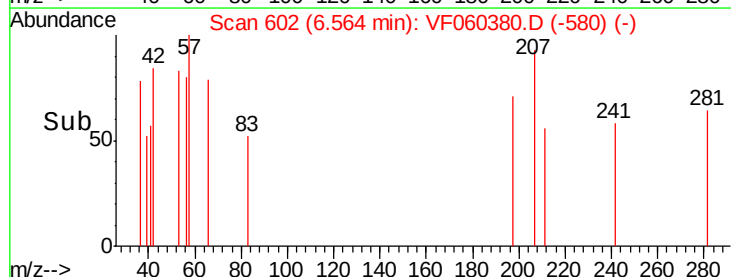
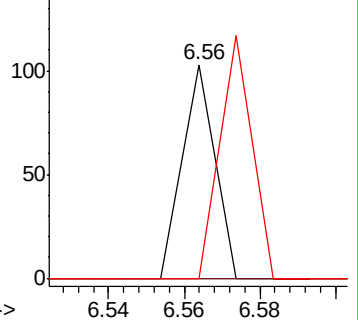
127 0.0 7.1 10.7#

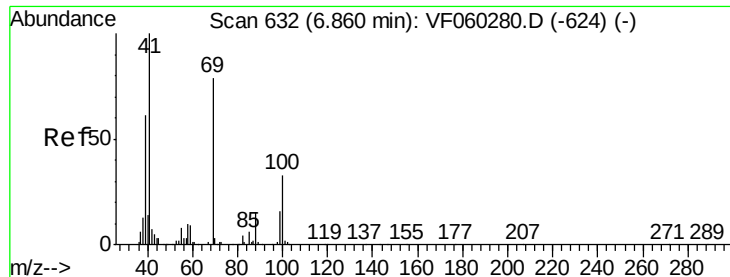


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V

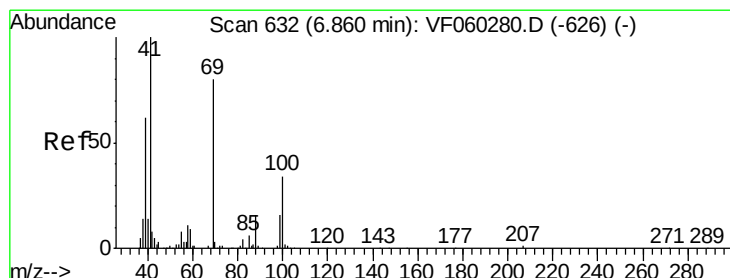
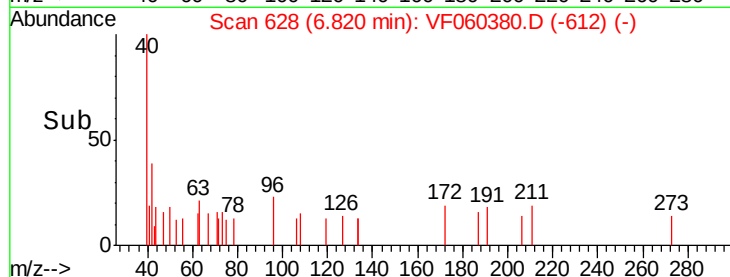
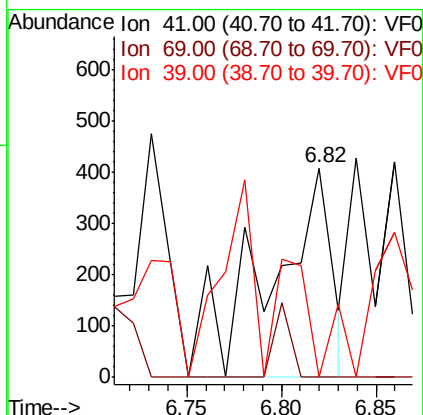
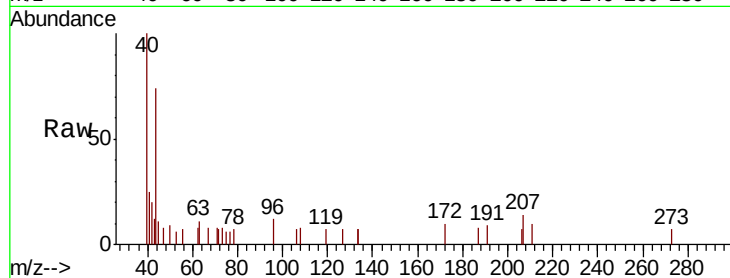




#48
Methvl methacrylate
Concen: 70.996 ug/l
RT: 6.82 min Scan# 628
Delta R.T. -0.04 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

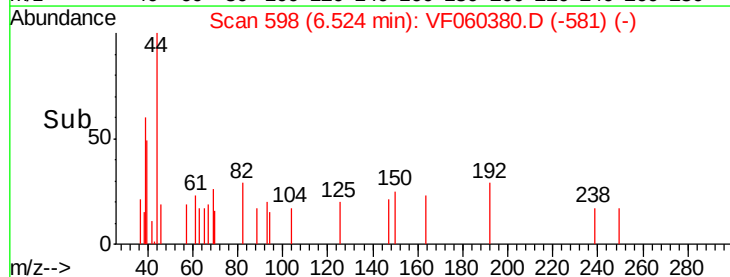
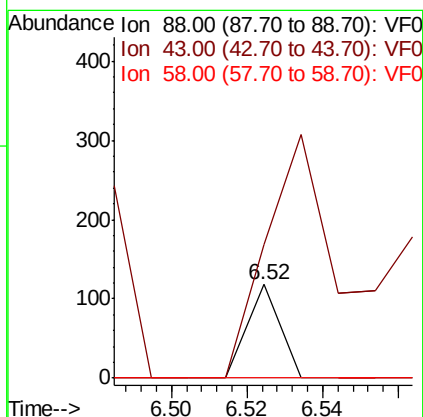
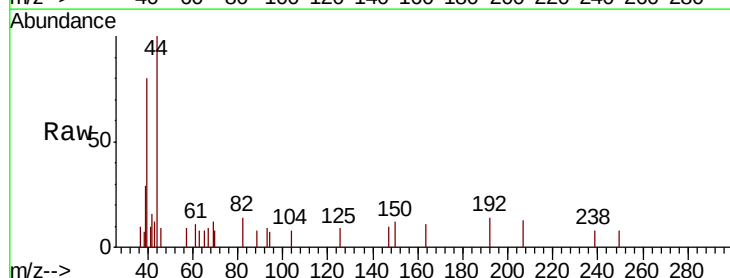
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-2

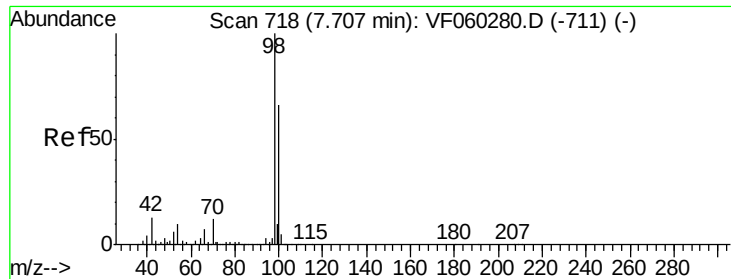
Tot Ion: 41 Resp: 956
Ion Ratio Lower Upper
41 100
69 0.0 62.6 94.0#
39 0.0 49.1 73.7#



#49
1,4-Dioxane
Concen: 581.878 ug/l
RT: 6.52 min Scan# 598
Delta R.T. -0.34 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

Tgt Ion: 88 Resp: 70
Ion Ratio Lower Upper
88 100
43 142.4 40.2 60.4#
58 0.0 56.7 85.1#





#50

Toluene-d8

Concen: 42.705 ug/l

RT: 7.72 min Scan# 719

Delta R.T. 0.01 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampled :

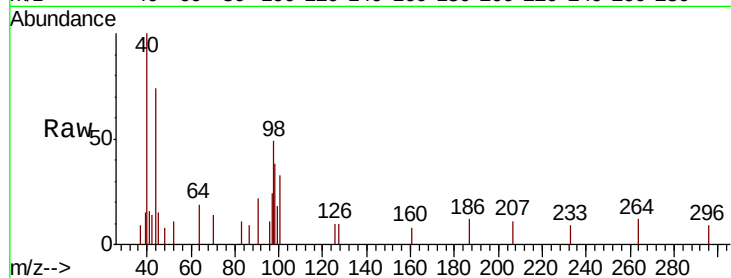
HC-SOIL-2

Tot Ion: 98 Resp: 2993

Ion Ratio Lower Upper

98 100

100 38.4 53.0 79.6#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.72

1200

1000

800

600

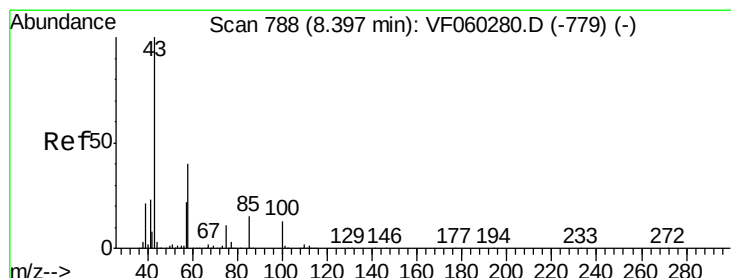
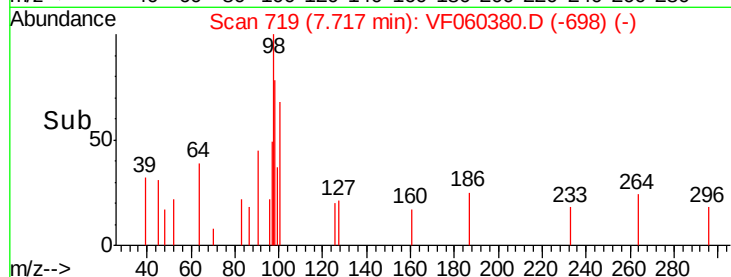
400

200

0

Time-->

7.60 7.65 7.70 7.75 7.80



#51

4-Methyl-2-Pentanone

Concen: 53.637 ug/l

RT: 8.39 min Scan# 787

Delta R.T. -0.01 min

Lab File: VF060380.D

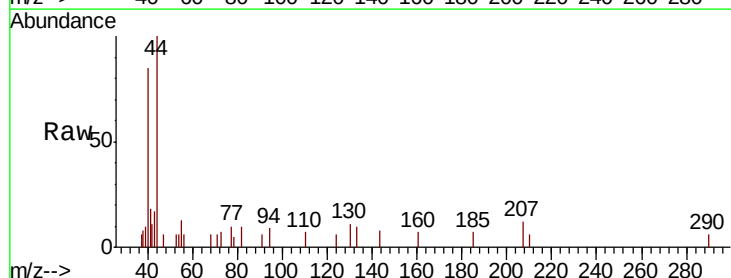
Acq: 28 Sep 2018 21:17

Tgt Ion: 43 Resp: 793

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

500

400

300

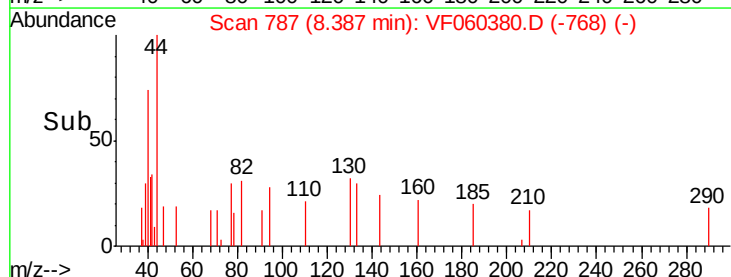
200

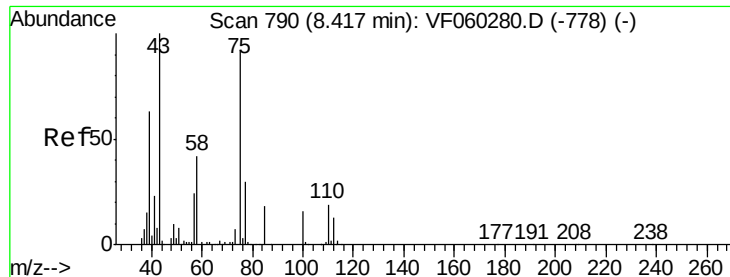
100

0

Time-->

8.35 8.40 8.45





#53

t-1,3-Dichloropropene

Concen: 4.441 ug/l

RT: 8.37 min Scan# 785

Delta R.T. -0.05 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

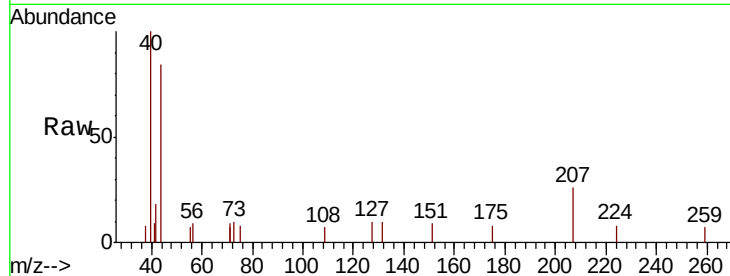
HC-SOIL-2

Tot Ion: 75 Resp: 136

Ion Ratio Lower Upper

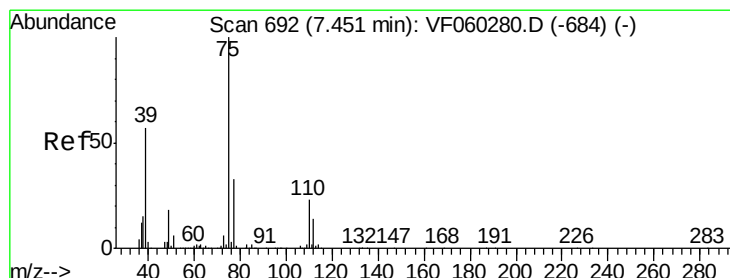
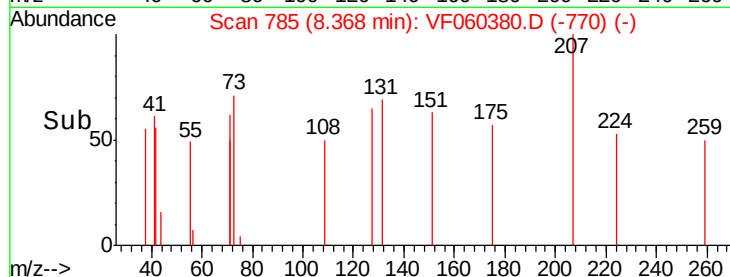
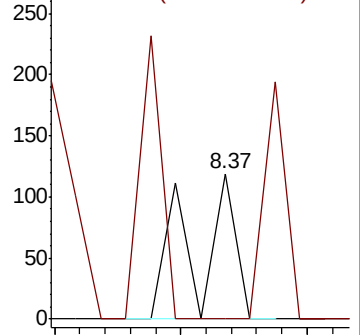
75 100

77 0.0 25.9 38.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0



#54

cis-1,3-Dichloropropene

Concen: 1.633 ug/l

RT: 7.45 min Scan# 692

Delta R.T. -0.00 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

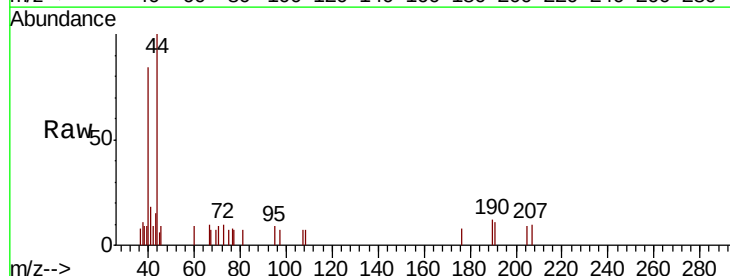
Tgt Ion: 75 Resp: 63

Ion Ratio Lower Upper

75 100

77 102.8 26.3 39.5#

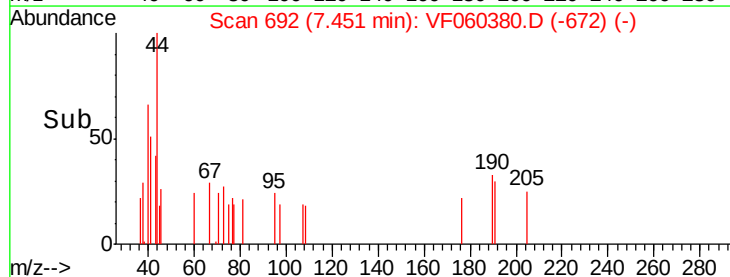
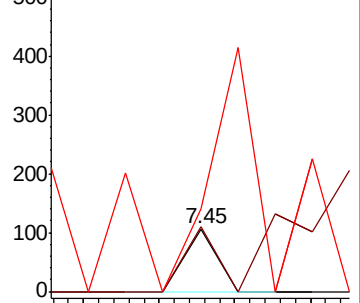
39 133.0 46.1 69.1#

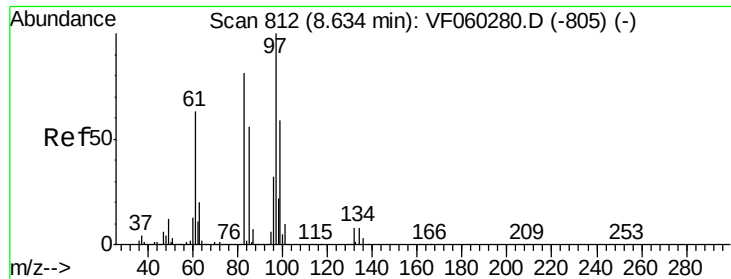


Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#55

1,1,2-Trichloroethane

Concen: 11.528 ug/l

RT: 8.51 min Scan# 799

Delta R.T. -0.13 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

Tot Ion: 97 Resp: 189

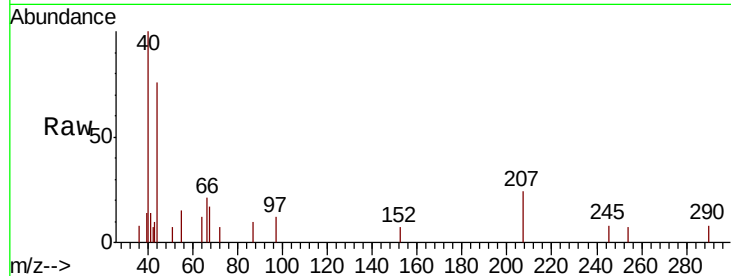
Ion Ratio Lower Upper

97 100

83 0.0 65.3 97.9#

85 0.0 44.7 67.1#

99 0.0 47.0 70.4#

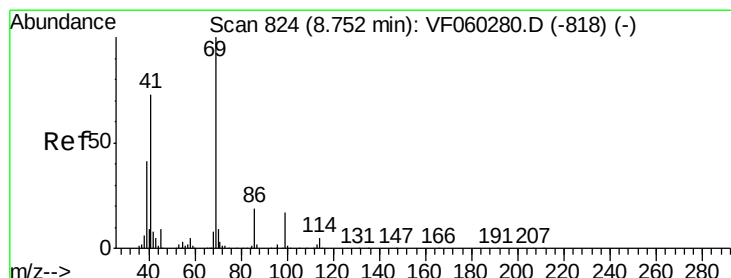
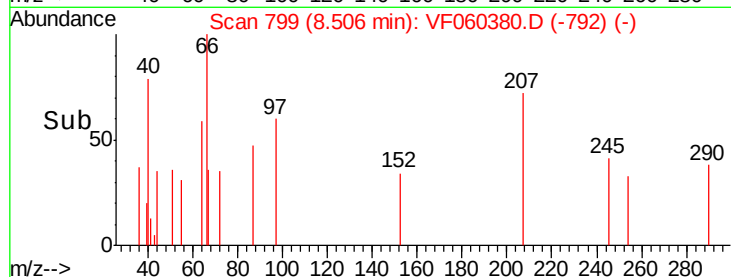
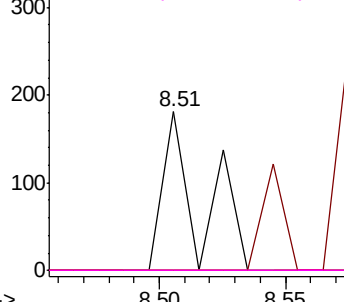


Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0



#56

Ethyl methacrylate

Concen: 10.302 ug/l

RT: 8.75 min Scan# 824

Delta R.T. -0.00 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

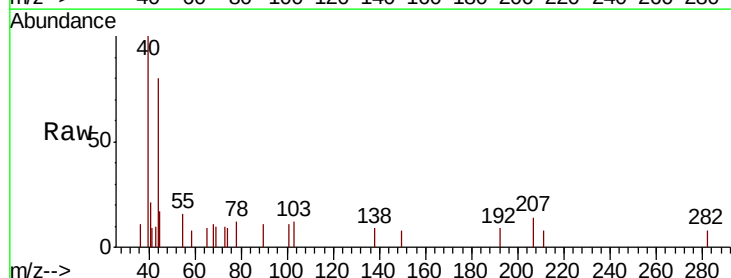
Tgt Ion: 69 Resp: 204

Ion Ratio Lower Upper

69 100

41 309.1 59.4 89.2#

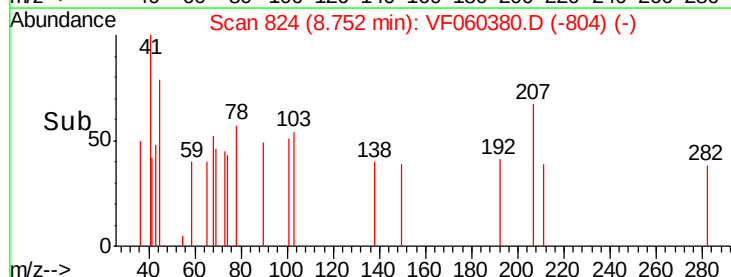
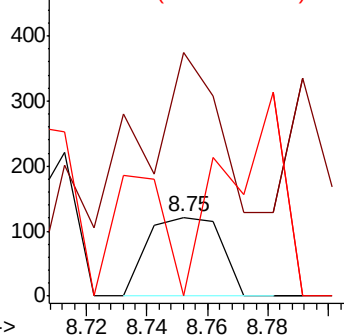
39 0.0 33.5 50.3#

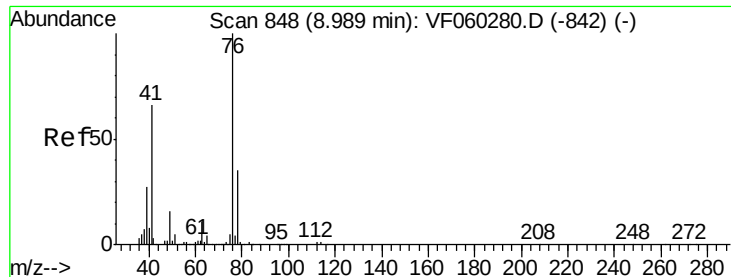


Abundance Ion 69.00 (68.70 to 69.70): VF0

Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#57

1,3-Dichloropropane

Concen: 2.284 ug/l

RT: 8.97 min Scan# 846

Delta R.T. -0.02 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

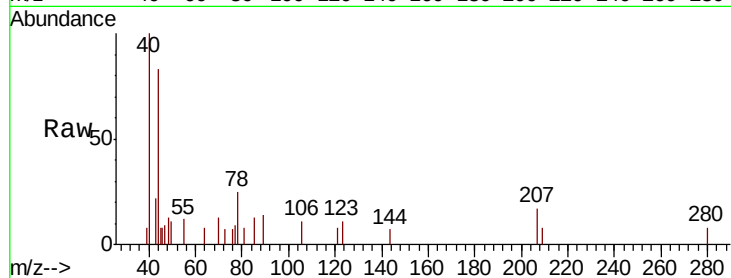
HC-SOIL-2

Tot Ion: 76 Resp: 62

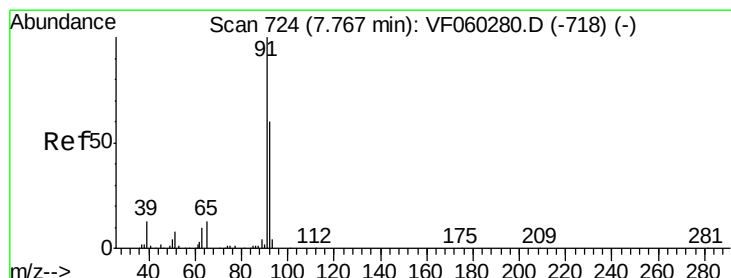
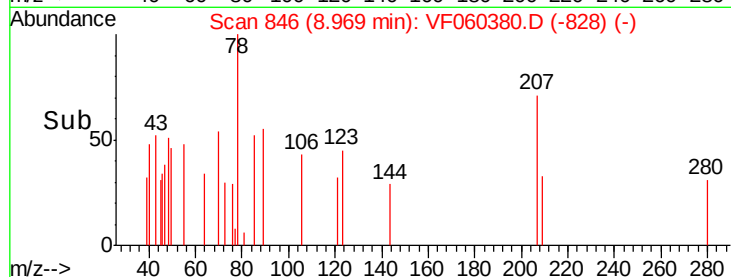
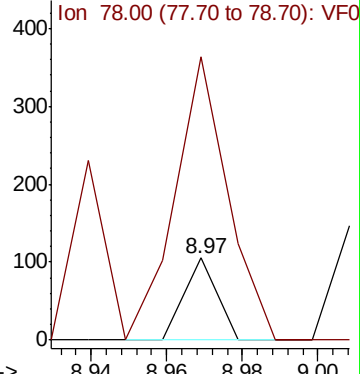
Ion Ratio Lower Upper

76 100

78 345.7 28.2 42.2#



Abundance Ion 76.00 (75.70 to 76.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 78.265 ug/l

RT: 7.77 min Scan# 724

Delta R.T. -0.00 min

Lab File: VF060380.D

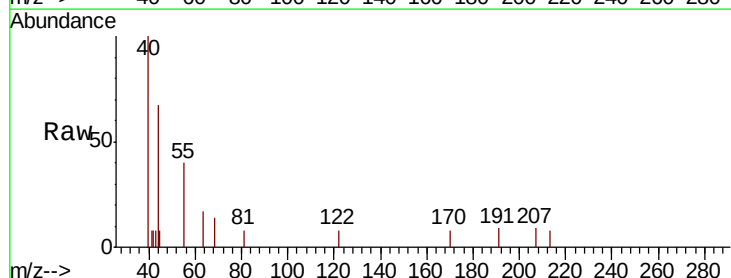
Acq: 28 Sep 2018 21:17

Tgt Ion: 63 Resp: 137

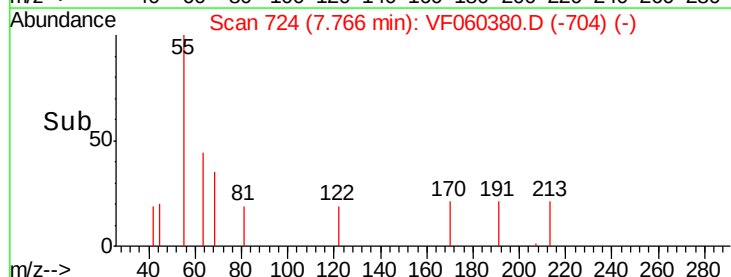
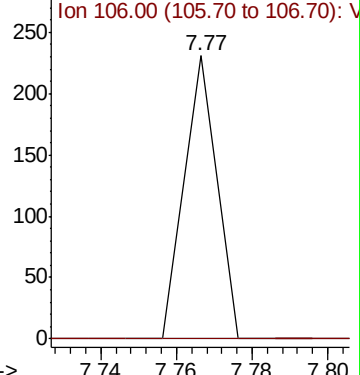
Ion Ratio Lower Upper

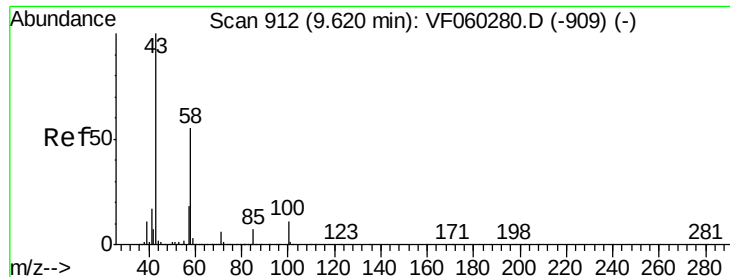
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

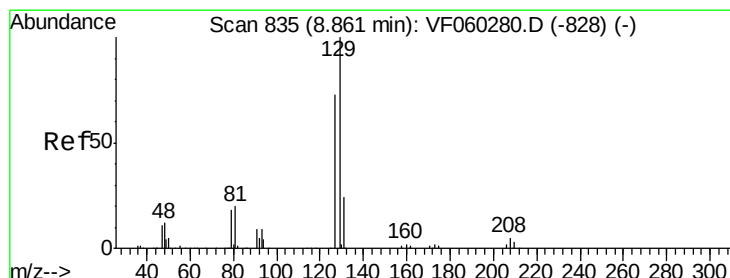
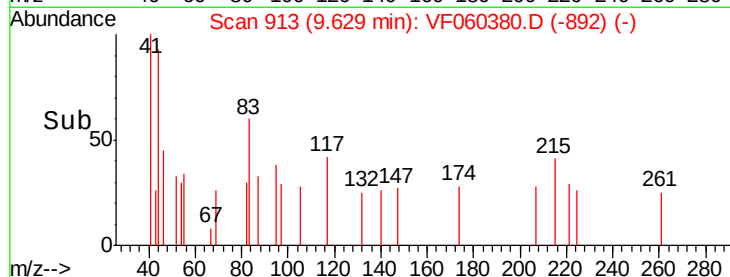
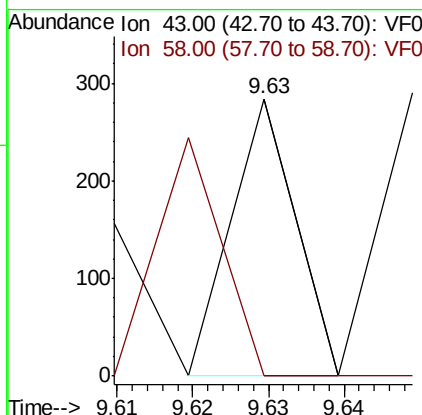
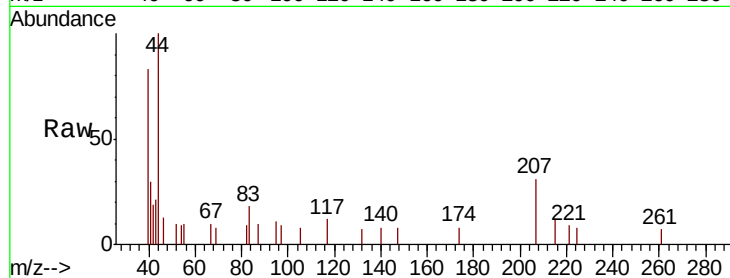




#59
2-Hexanone
Concen: 15.959 ug/l
RT: 9.63 min Scan# 913
Delta R.T. 0.01 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

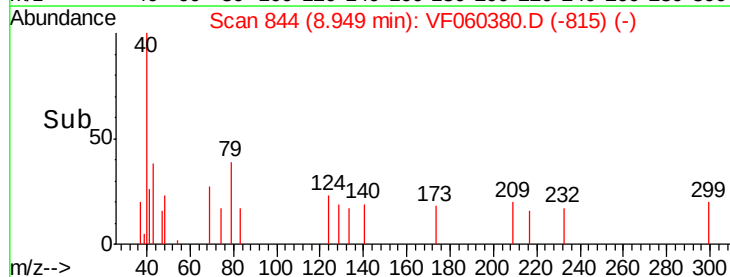
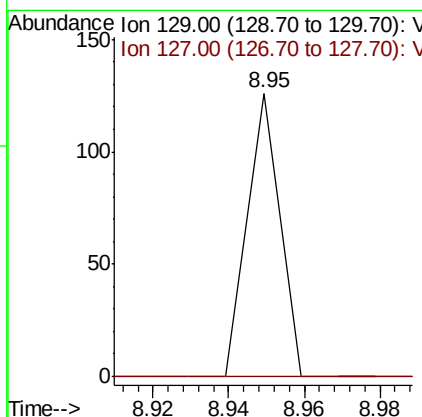
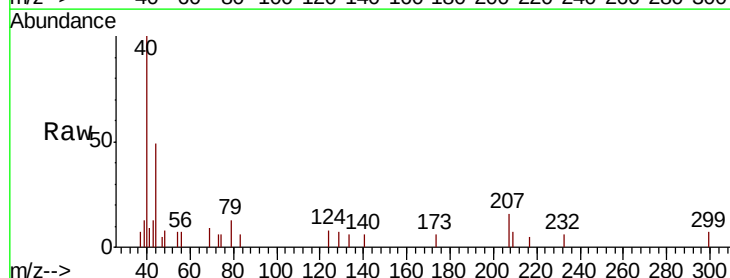
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-2

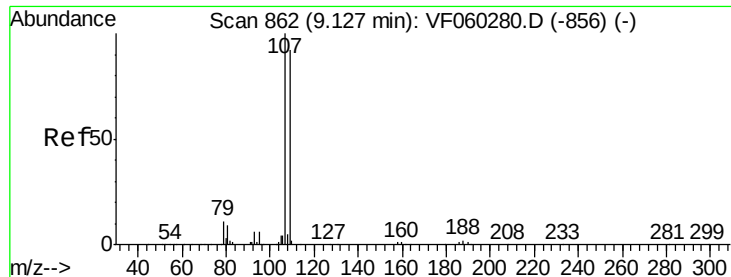
Tot Ion: 43 Resp: 168
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.6#



#60
Dibromochloromethane
Concen: 3.069 ug/l
RT: 8.95 min Scan# 844
Delta R.T. 0.09 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

Tgt Ion: 129 Resp: 75
Ion Ratio Lower Upper
129 100
127 0.0 36.6 109.8#





#61

1,2-Dibromoethane

Concen: 4.272 ug/l

RT: 9.15 min Scan# 864

Delta R.T. 0.02 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampled :

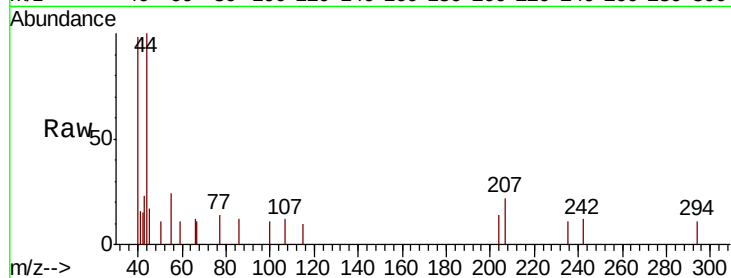
HC-SOIL-2

Tot Ion:107 Resp: 78

Ion Ratio Lower Upper

107 100

109 0.0 73.2 109.8#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

9.15

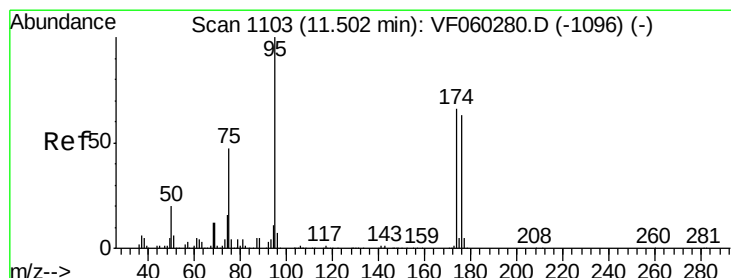
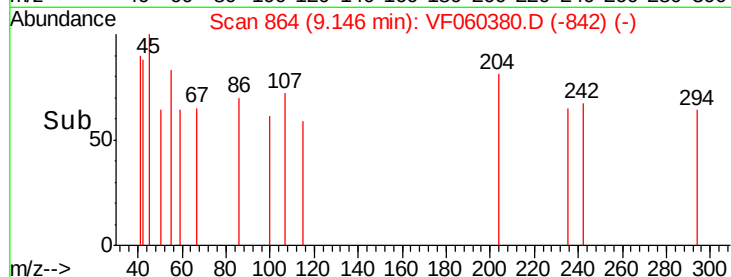
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 49.512 ug/l

RT: 11.50 min Scan# 1103

Delta R.T. -0.00 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

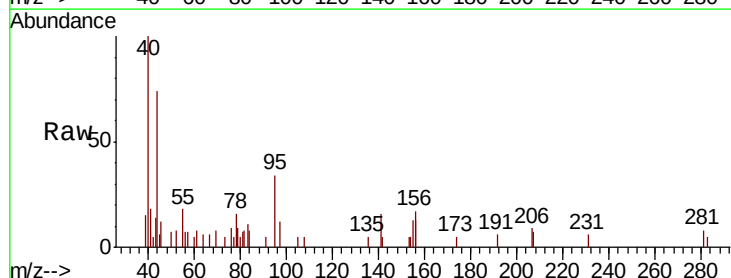
Tgt Ion: 95 Resp: 1500

Ion Ratio Lower Upper

95 100

174 0.0 0.0 131.2

176 0.0 0.0 126.6



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

1000

800

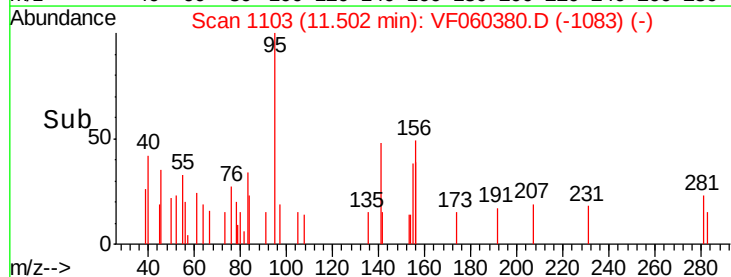
600

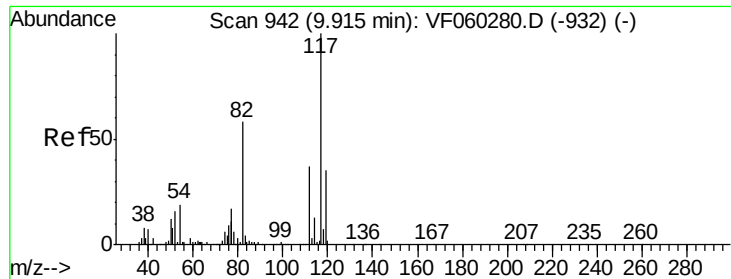
400

200

0

Time-->

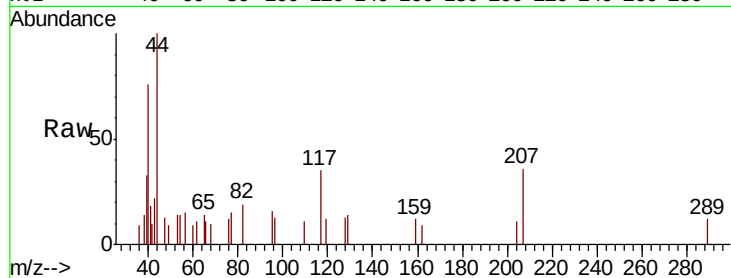




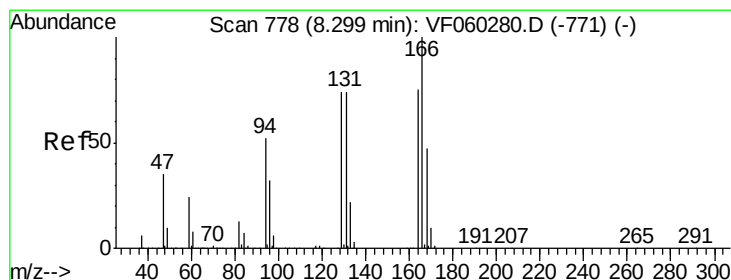
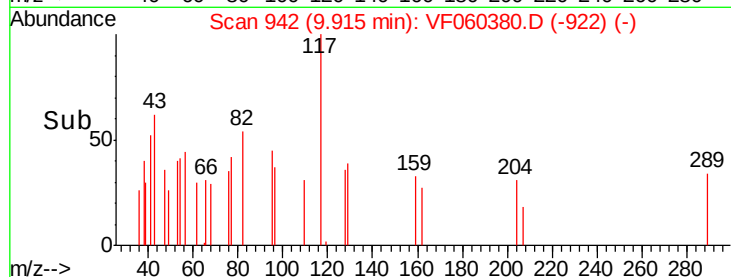
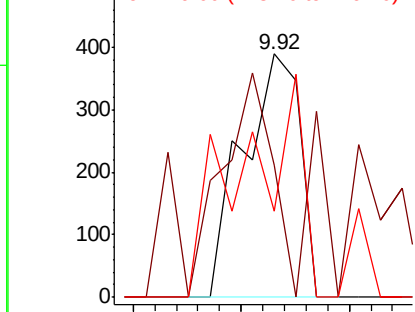
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.92 min Scan# 942
Delta R.T. -0.00 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

Instrument :
MSVOA_F
ClientSampled :
HC-SOIL-2

Tot Ion:117 Resp: 713
Ion Ratio Lower Upper
117 100
82 54.2 46.2 69.2
119 35.5 27.8 41.6

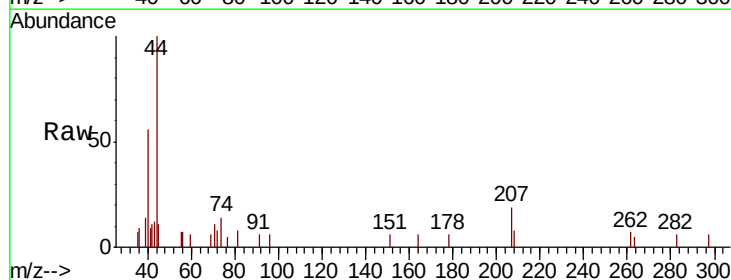


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

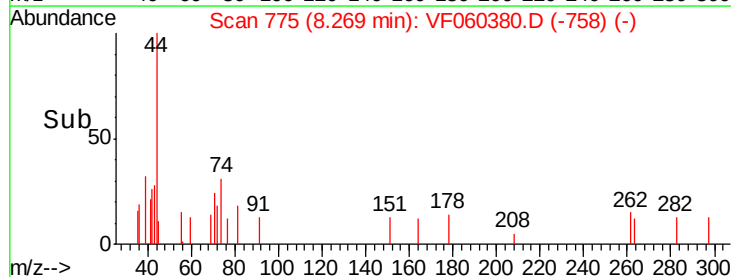
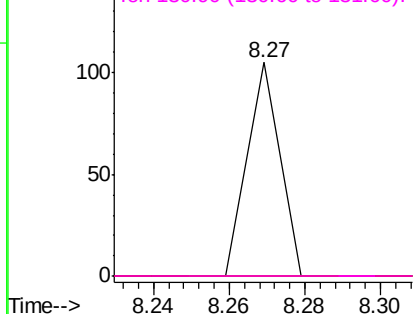


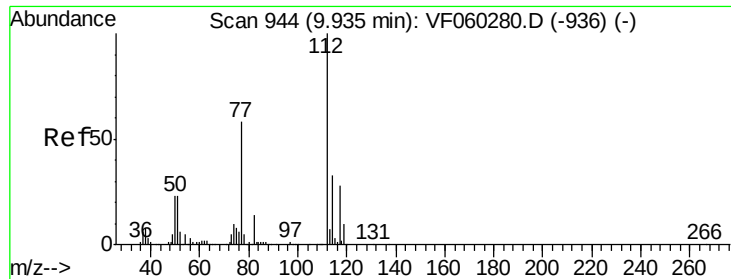
#64
Tetrachloroethene
Concen: 9.592 ug/l
RT: 8.27 min Scan# 775
Delta R.T. -0.03 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

Tgt Ion:164 Resp: 62
Ion Ratio Lower Upper
164 100
166 0.0 106.8 160.2#
129 0.0 78.8 118.2#
131 0.0 78.7 118.1#



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: 4.765 ug/l

RT: 9.94 min Scan# 945

Delta R.T. 0.01 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampled :

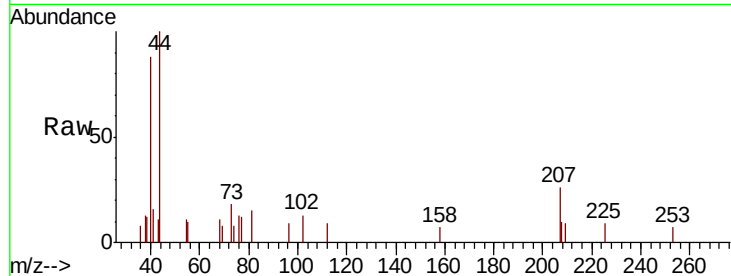
HC-SOIL-2

Tot Ion:112 Resp: 77

Ion Ratio Lower Upper

112 100

114 0.0 26.6 40.0#



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

9.94

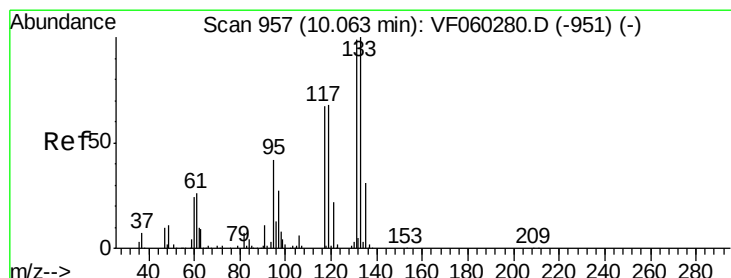
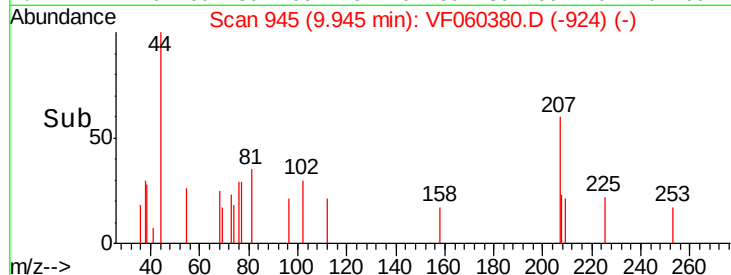
100

50

0

9.92 9.94 9.96

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 9.245 ug/l

RT: 10.04 min Scan# 955

Delta R.T. -0.02 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

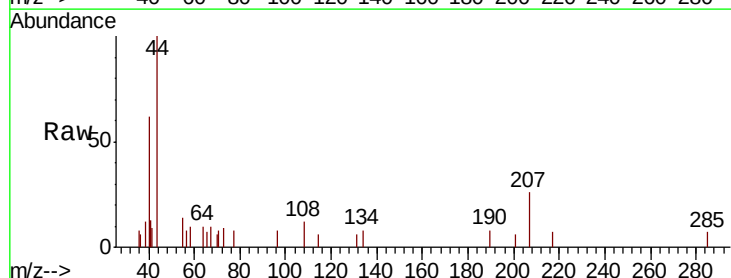
Tgt Ion:131 Resp: 62

Ion Ratio Lower Upper

131 100

133 0.0 50.4 151.2#

119 0.0 34.8 104.3#



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

200

150

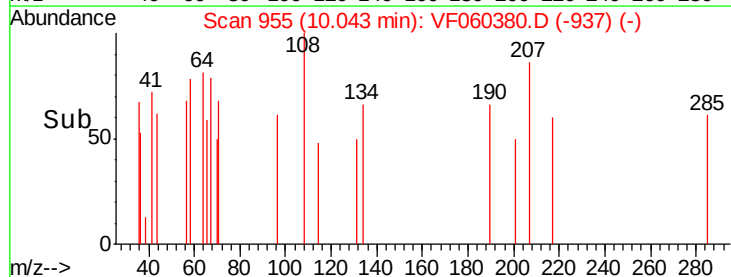
100

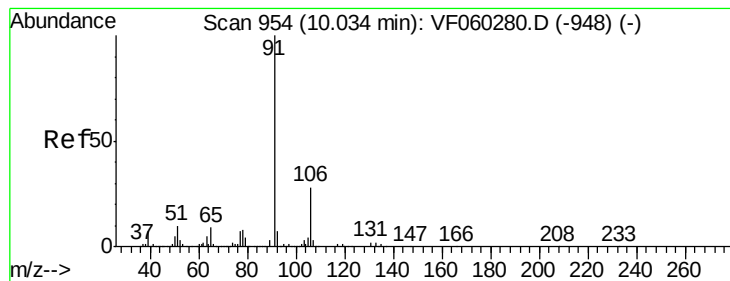
50

0

10.02 10.04 10.06

Time-->





#67

Ethyl Benzene

Concen: 10.911 ug/l

RT: 10.08 min Scan# 959

Delta R.T. 0.05 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

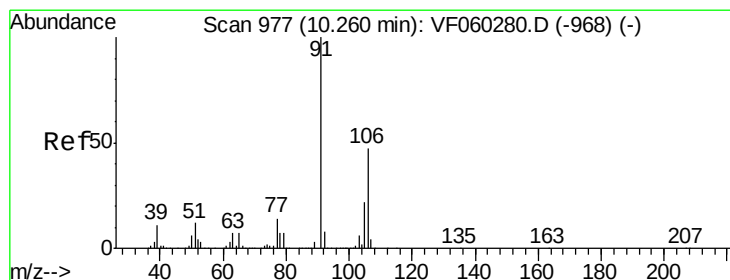
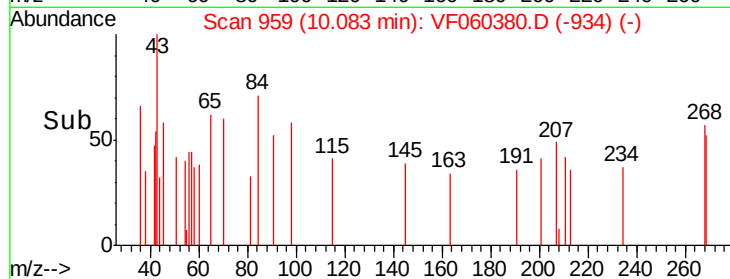
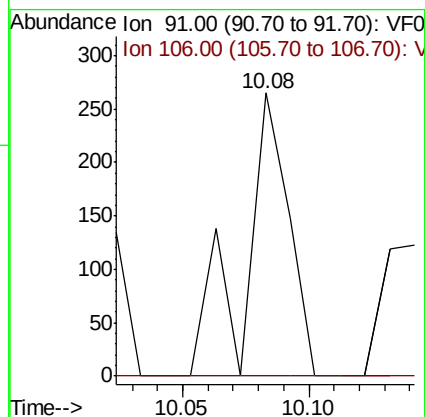
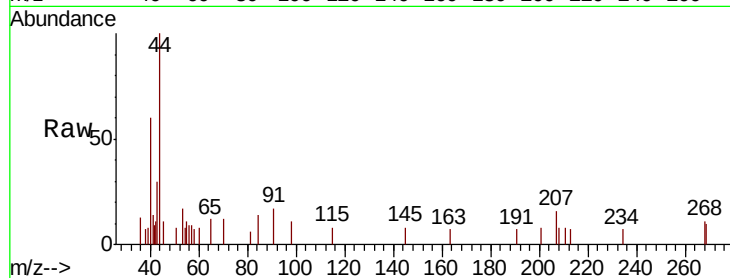
HC-SOIL-2

Tot Ion: 91 Resp: 326

Ion Ratio Lower Upper

91 100

106 0.0 22.7 34.1#



#68

m/p-Xylenes

Concen: 6.491 ug/l

RT: 10.36 min Scan# 987

Delta R.T. 0.10 min

Lab File: VF060380.D

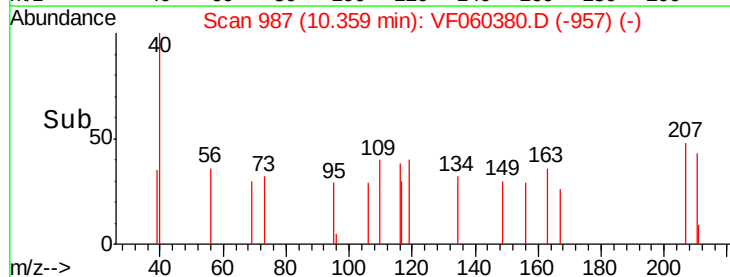
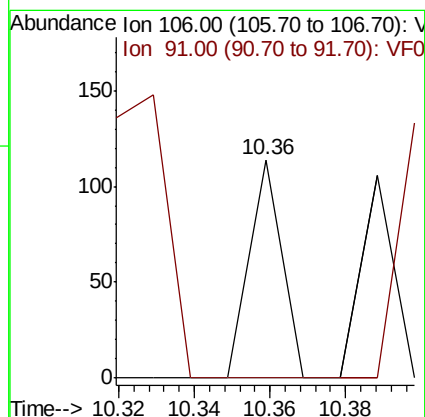
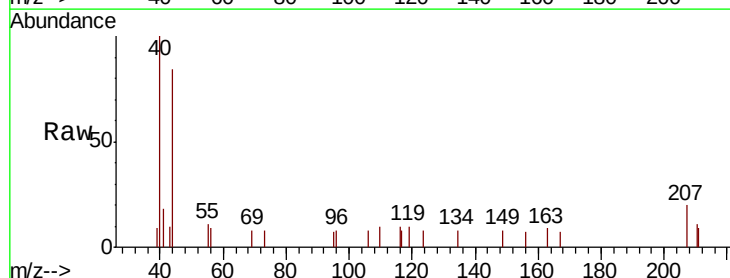
Acq: 28 Sep 2018 21:17

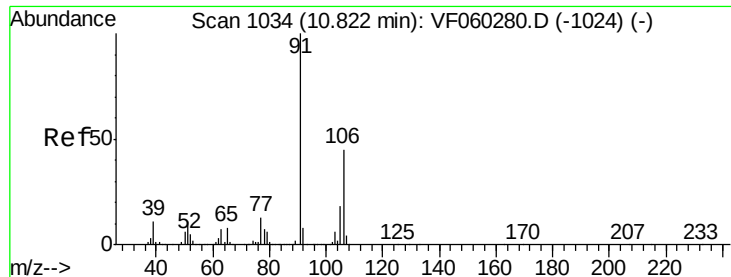
Tgt Ion: 106 Resp: 67

Ion Ratio Lower Upper

106 100

91 0.0 172.3 258.5#

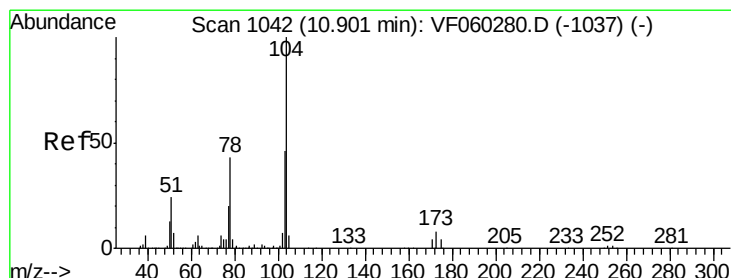
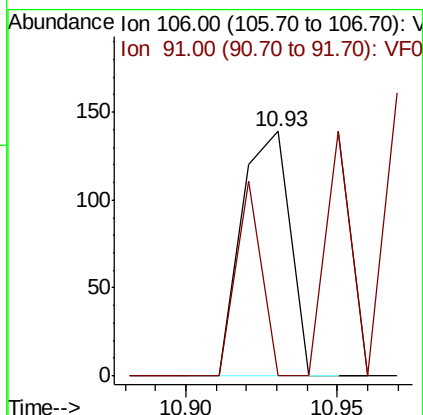
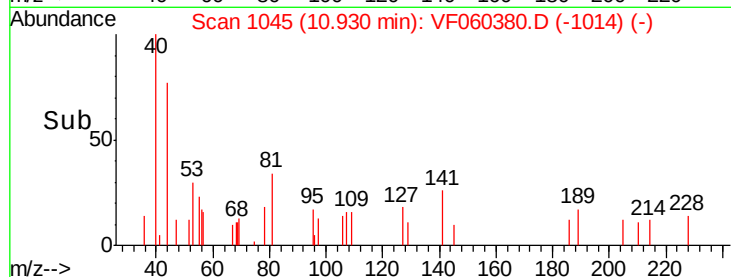
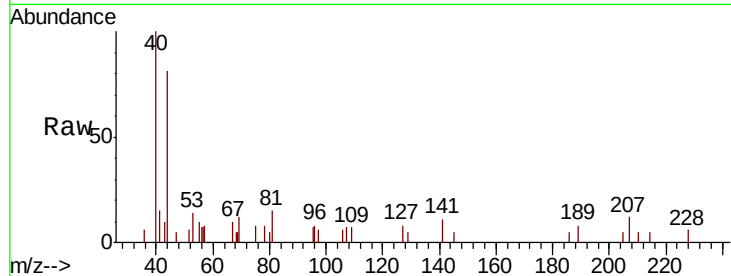




#69
o-Xylene
Concen: 13.214 ug/l
RT: 10.93 min Scan# 1045
Delta R.T. 0.11 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

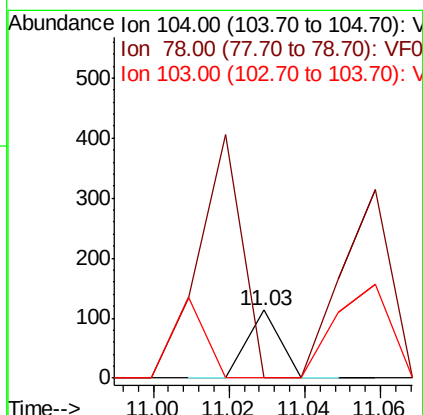
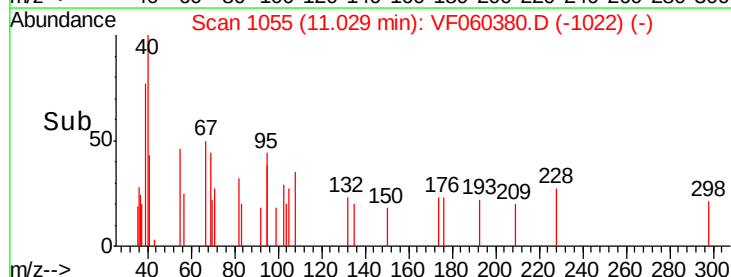
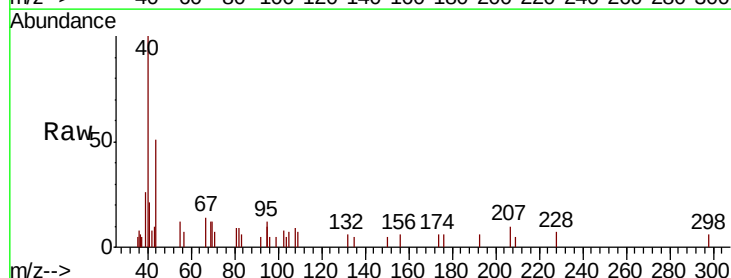
Instrument :
MSVOA_F
ClientSampled :
HC-SOIL-2

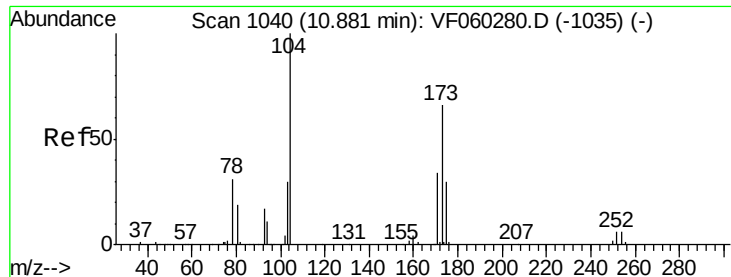
Tot Ion:106 Resp: 153
Ion Ratio Lower Upper
106 100
91 0.0 110.9 332.6#



#70
Styrene
Concen: 4.103 ug/l
RT: 11.03 min Scan# 1055
Delta R.T. 0.13 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

Tgt Ion:104 Resp: 67
Ion Ratio Lower Upper
104 100
78 0.0 35.0 52.6#
103 0.0 37.4 56.0#





#71

Bromoform

Concen: 21.721 ug/l

RT: 10.91 min Scan# 1043

Delta R.T. 0.03 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

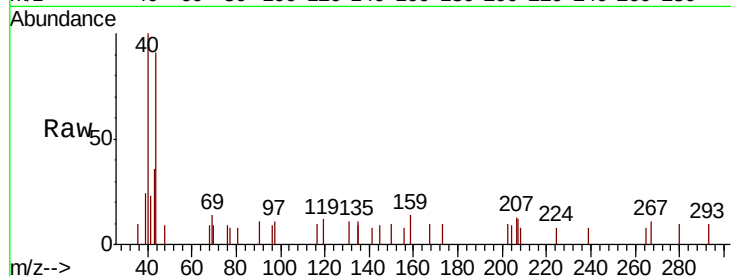
Tot Ion:173 Resp: 80

Ion Ratio Lower Upper

173 100

175 0.0 22.3 66.9#

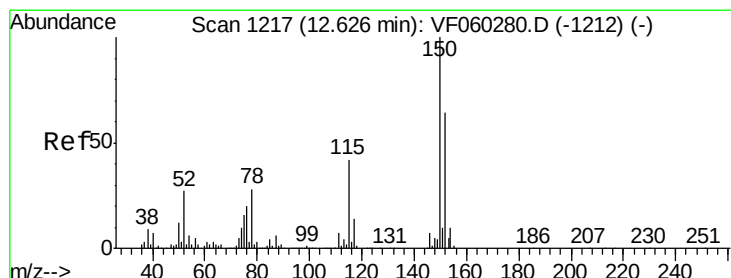
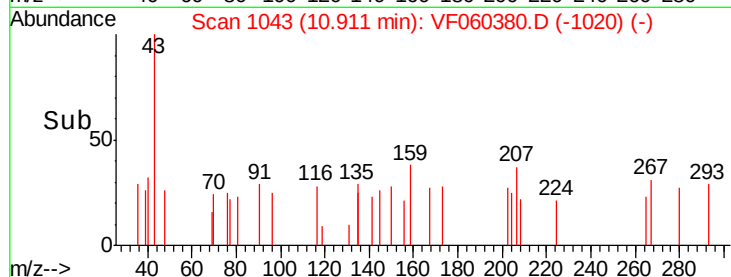
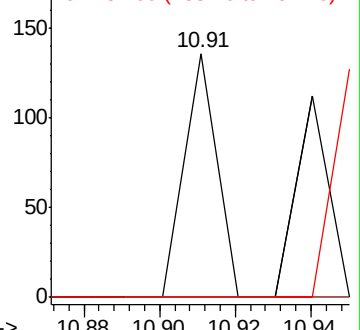
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.65 min Scan# 1219

Delta R.T. 0.02 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

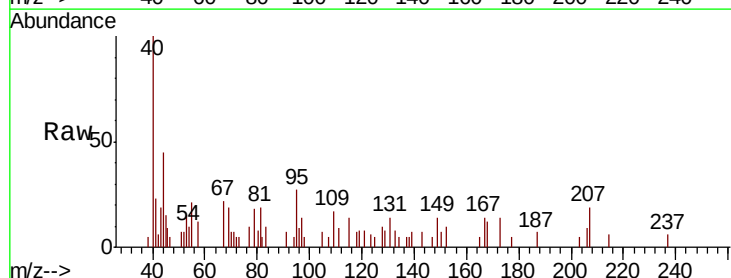
Tgt Ion:152 Resp: 129

Ion Ratio Lower Upper

152 100

115 139.4 32.6 97.8#

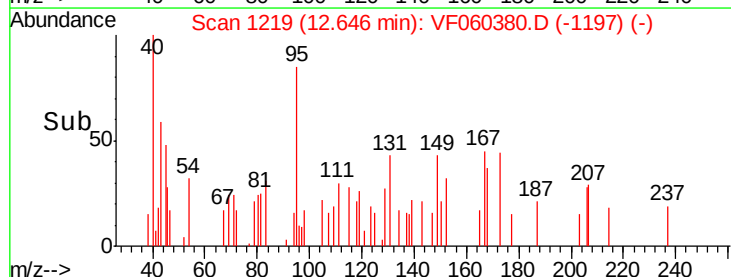
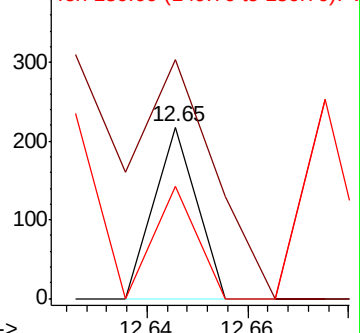
150 65.6 0.0 314.2

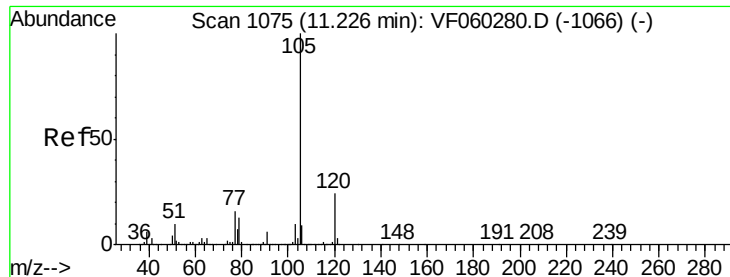


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#73

Isopropylbenzene

Concen: 11.312 ug/l

RT: 11.21 min Scan# 1073

Delta R.T. -0.02 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

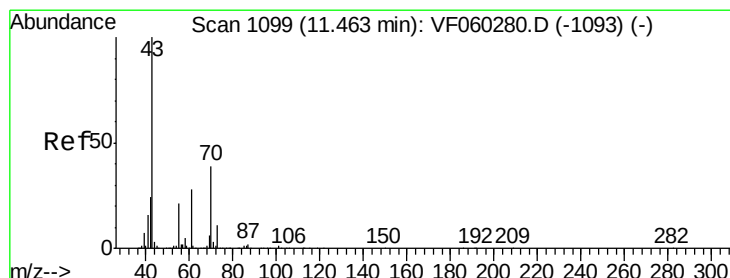
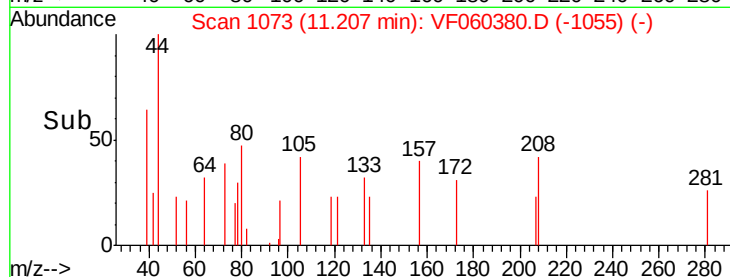
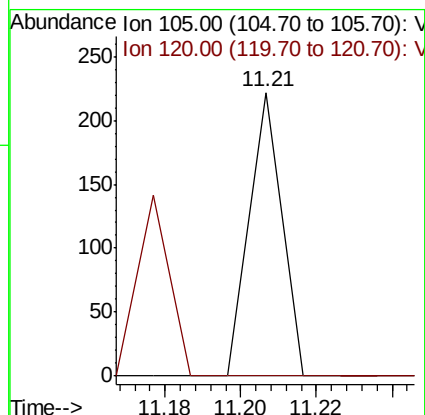
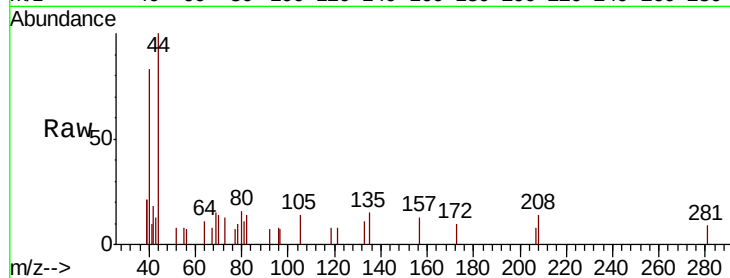
HC-SOIL-2

Tot Ion:105 Resp: 131

Ion Ratio Lower Upper

105 100

120 0.0 12.2 36.6#



#74

N-ethyl acetate

Concen: 110.143 ug/l

RT: 11.44 min Scan# 1097

Delta R.T. -0.02 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Tgt Ion: 43 Resp: 272

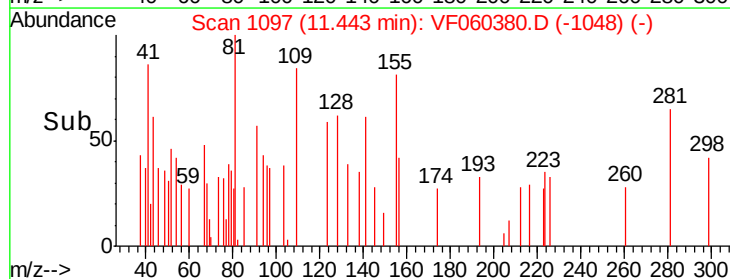
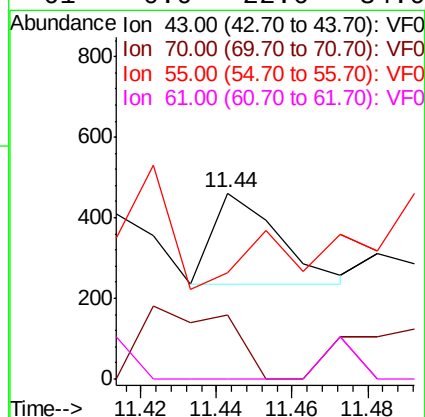
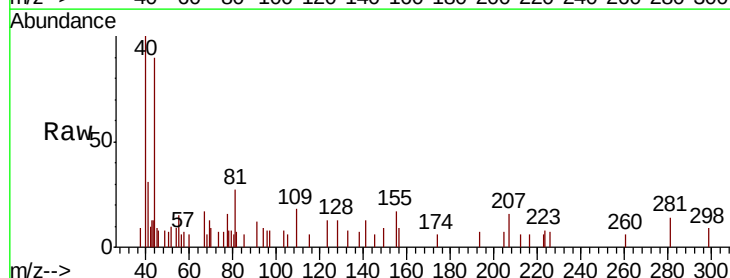
Ion Ratio Lower Upper

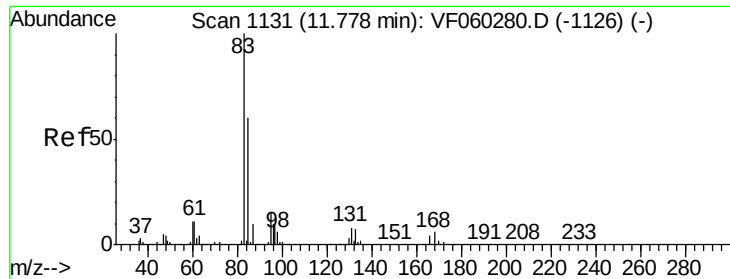
43 100

70 34.5 31.4 47.2

55 57.3 16.8 25.2#

61 0.0 22.6 34.0#





#75

1,1,2,2-Tetrachloroethane

Concen: 185.153 ug/l

RT: 11.78 min Scan# 1131

Delta R.T. -0.00 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

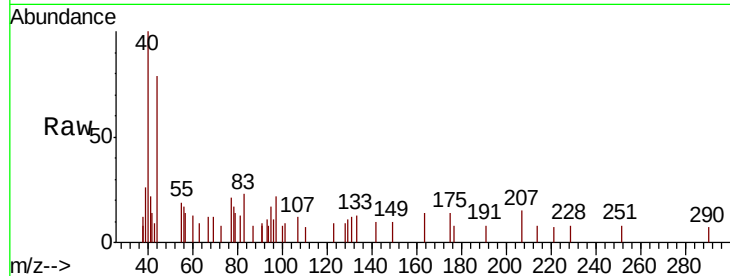
Tot Ion: 83 Resp: 380

Ion Ratio Lower Upper

83 100

131 52.5 4.2 12.4#

85 0.0 30.1 90.5#



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

11.78

300

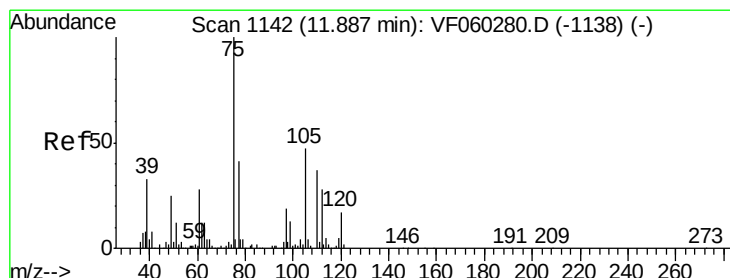
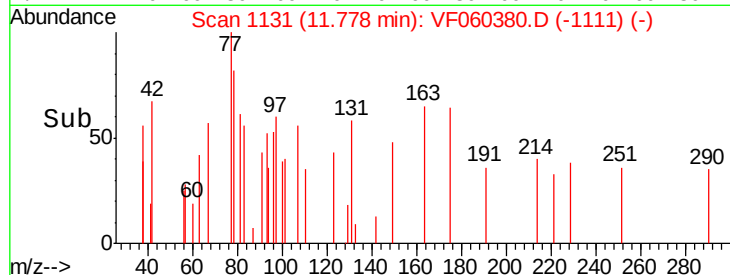
200

100

0

11.74 11.76 11.78 11.80

Time-->



#76

1,2,3-Trichloropropane

Concen: 105.477 ug/l

RT: 11.86 min Scan# 1139

Delta R.T. -0.03 min

Lab File: VF060380.D

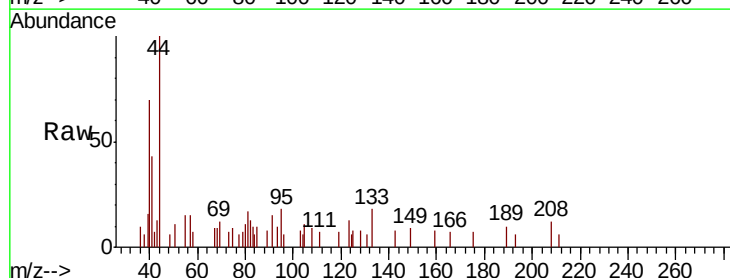
Acq: 28 Sep 2018 21:17

Tgt Ion: 75 Resp: 155

Ion Ratio Lower Upper

75 100

77 71.1 20.5 61.5#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

300

250

200

150

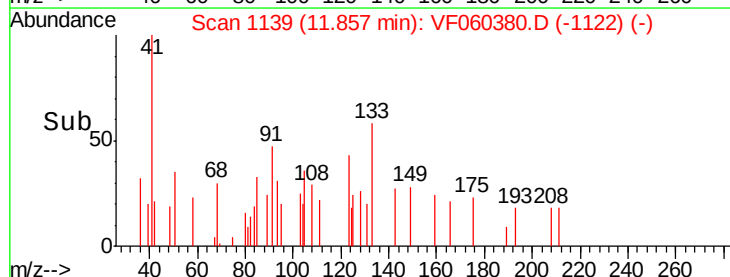
100

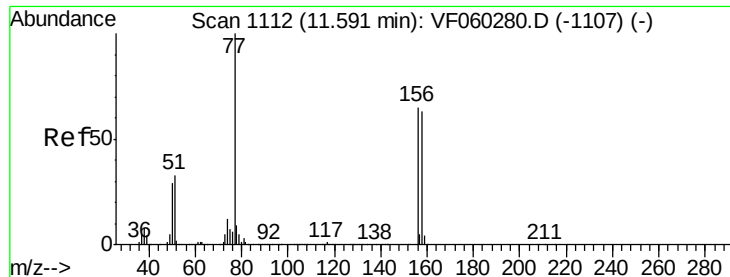
50

0

11.80 11.85

Time-->





#77

Bromobenzene

Concen: 500.848 ug/l

RT: 11.59 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

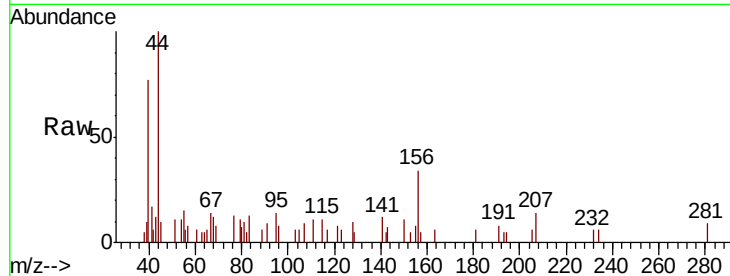
Tot Ion:156 Resp: 1250

Ion Ratio Lower Upper

156 100

77 37.2 77.3 232.1#

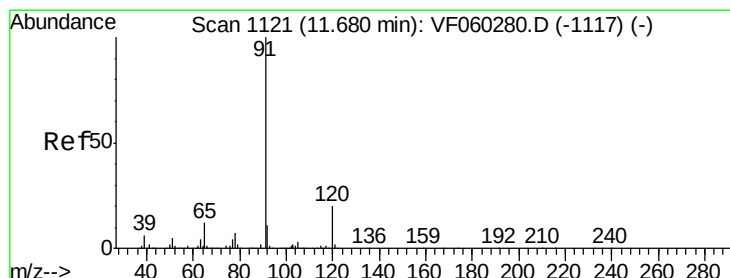
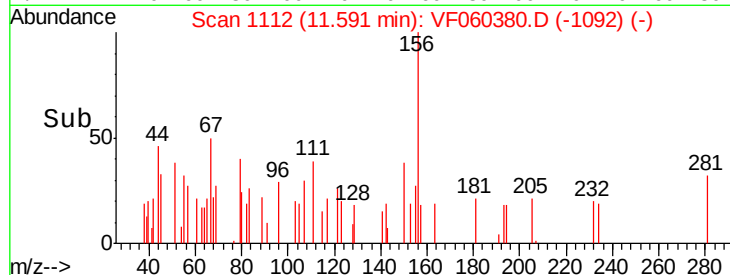
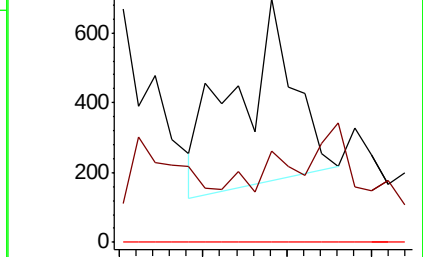
158 0.0 48.4 145.2#



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VF0

Ion 158.00 (157.70 to 158.70): V



#78

n-propylbenzene

Concen: 12.699 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. 0.03 min

Lab File: VF060380.D

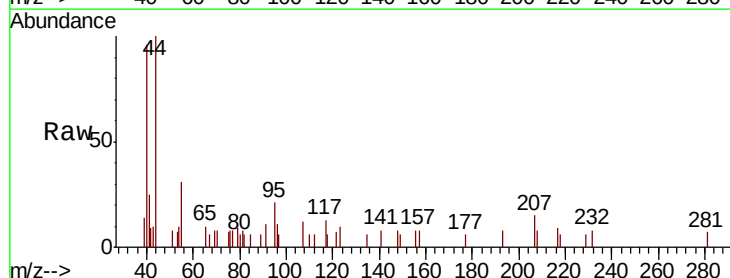
Acq: 28 Sep 2018 21:17

Tgt Ion: 91 Resp: 216

Ion Ratio Lower Upper

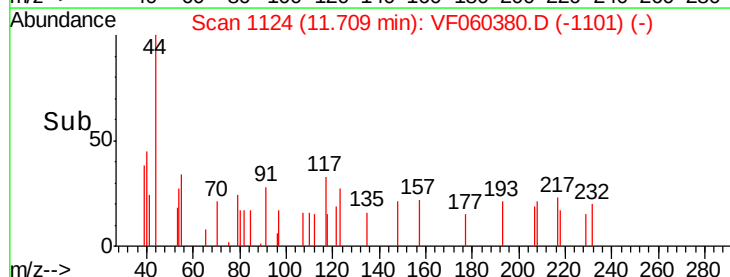
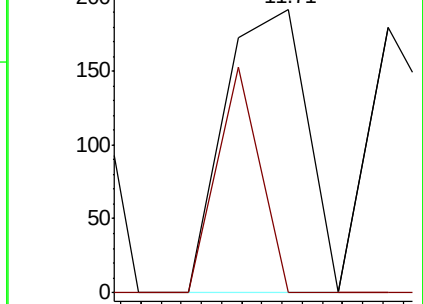
91 100

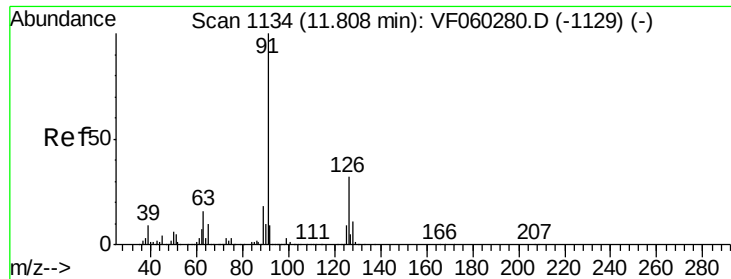
120 0.0 10.0 29.8#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V

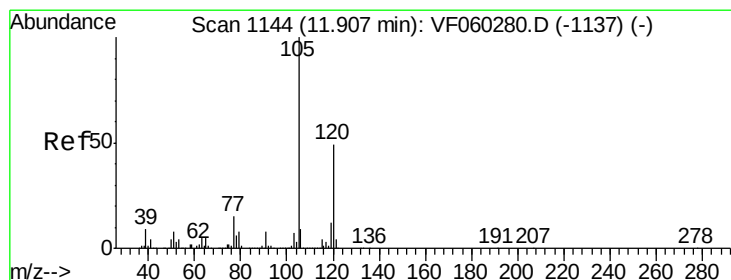
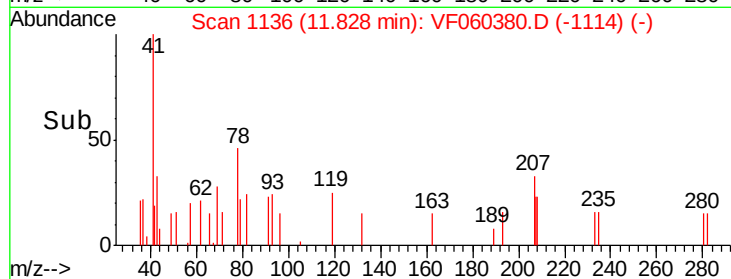
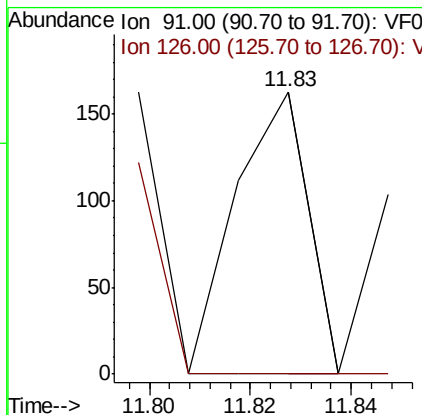
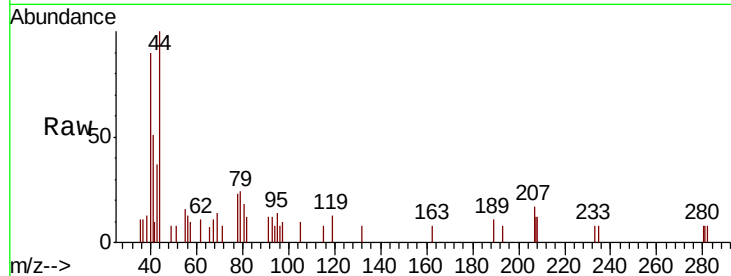




#79
2-Chlorotoluene
Concen: 20.866 ug/l
RT: 11.83 min Scan# 1136
Delta R.T. 0.02 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

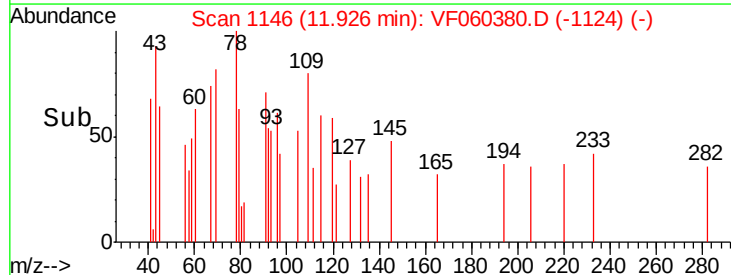
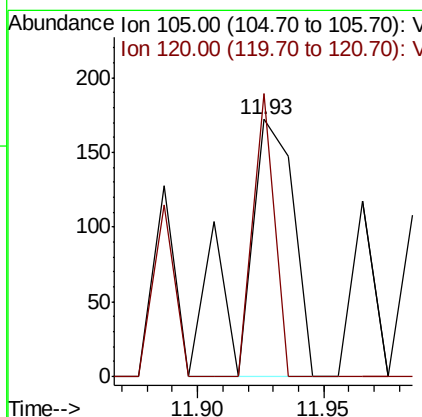
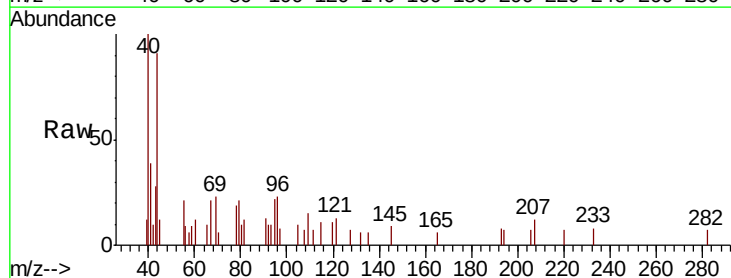
Instrument :
MSVOA_F
ClientSampled :
HC-SOIL-2

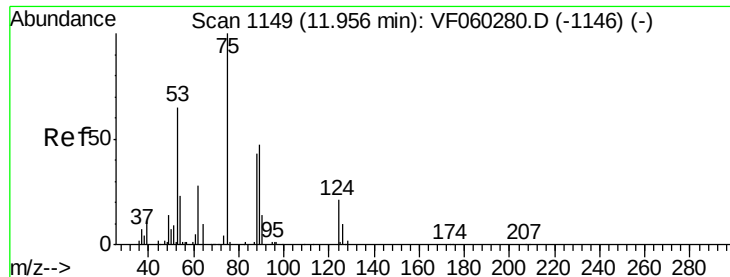
Tot Ion: 91 Resp: 163
Ion Ratio Lower Upper
91 100
126 0.0 16.1 48.3#



#80
1,3,5-Trimethylbenzene
Concen: 26.818 ug/l
RT: 11.93 min Scan# 1146
Delta R.T. 0.02 min
Lab File: VF060380.D
Acq: 28 Sep 2018 21:17

Tgt Ion:105 Resp: 250
Ion Ratio Lower Upper
105 100
120 109.9 24.4 73.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 87.561 ug/l

RT: 11.95 min Scan# 1148

Delta R.T. -0.01 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

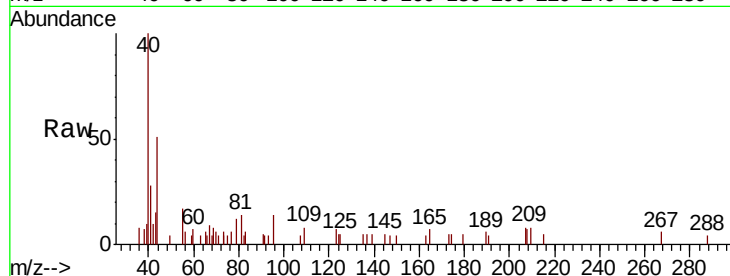
Tot Ion: 75 Resp: 68

Ion Ratio Lower Upper

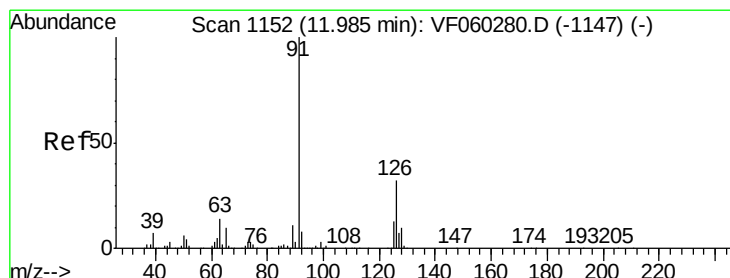
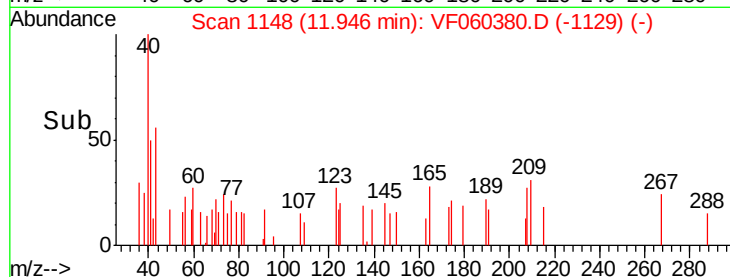
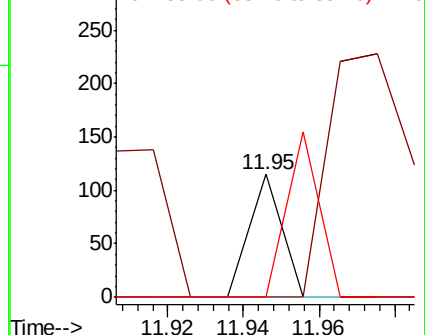
75 100

53 0.0 56.5 84.7#

89 0.0 40.6 60.8#



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 53.00 (52.70 to 53.70): VF0
Ion 89.00 (88.70 to 89.70): VF0



#82

4-Chlorotoluene

Concen: 51.709 ug/l

RT: 12.12 min Scan# 1166

Delta R.T. 0.14 min

Lab File: VF060380.D

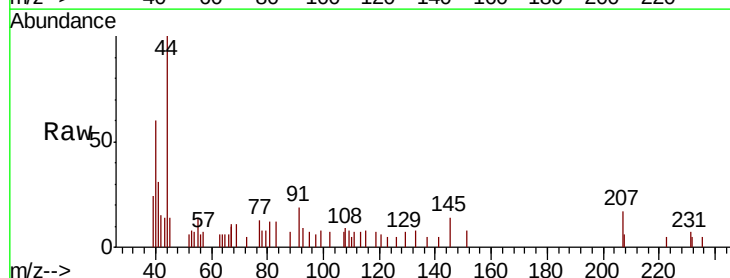
Acq: 28 Sep 2018 21:17

Tgt Ion: 91 Resp: 406

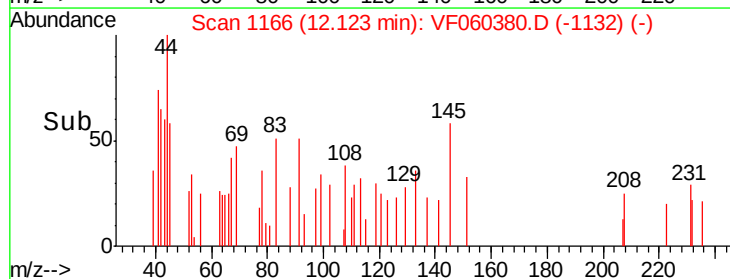
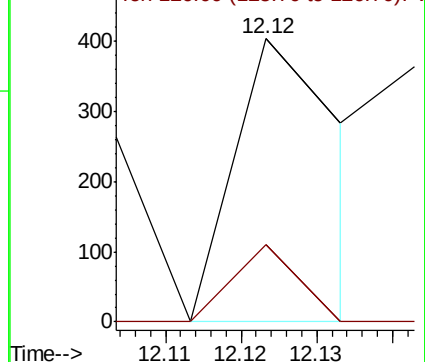
Ion Ratio Lower Upper

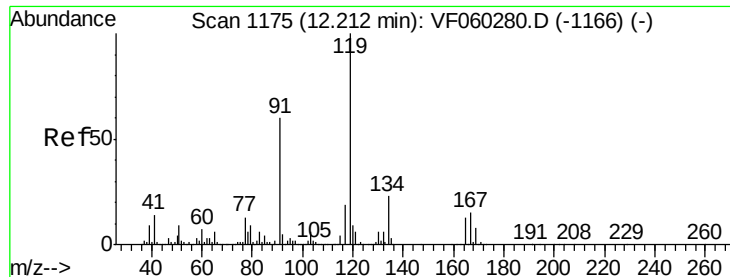
91 100

126 27.5 16.1 48.2



Abundance Ion 91.00 (90.70 to 91.70): VF0
Ion 126.00 (125.70 to 126.70): V

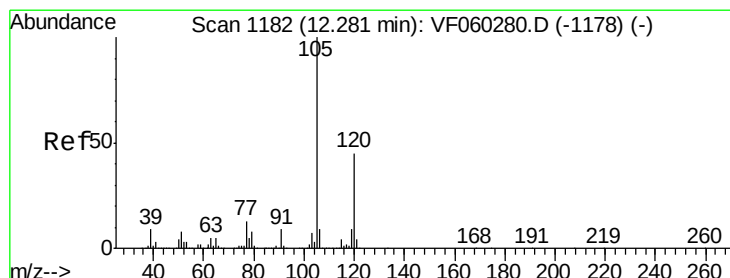
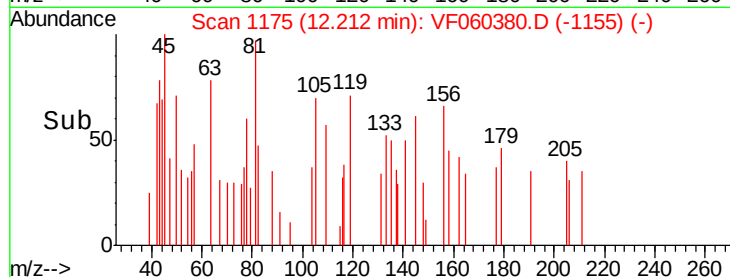
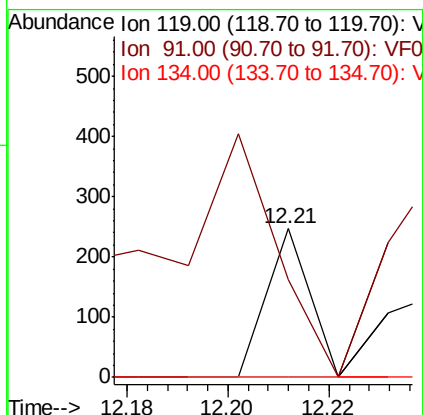
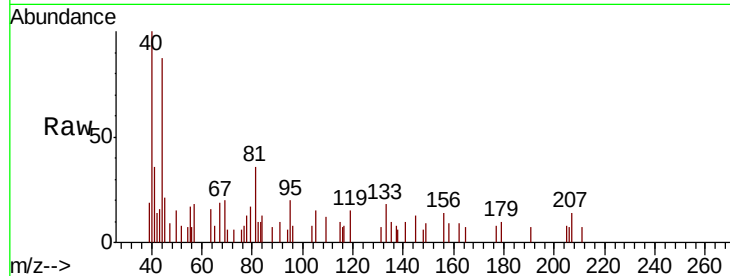




#83
 tert-Butylbenzene
 Concen: 15.450 ug/l
 RT: 12.21 min Scan# 1175
 Delta R.T. -0.00 min
 Lab File: VF060380.D
 Acq: 28 Sep 2018 21:17

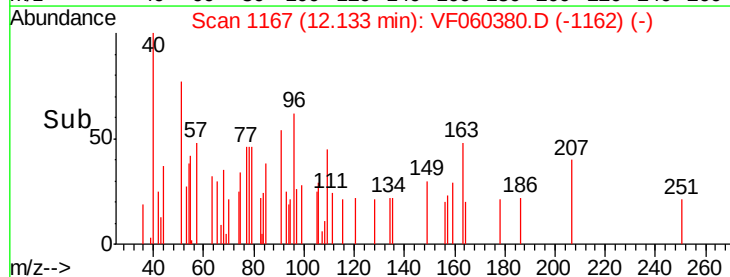
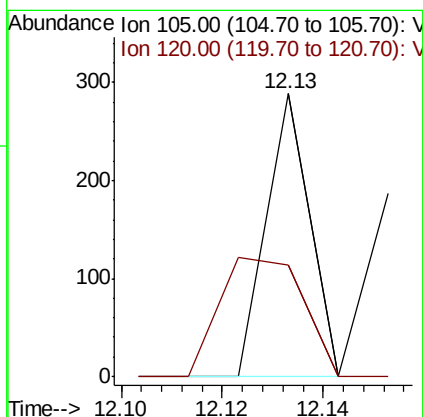
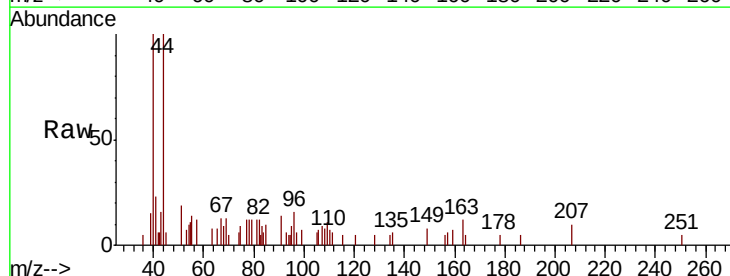
Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-2

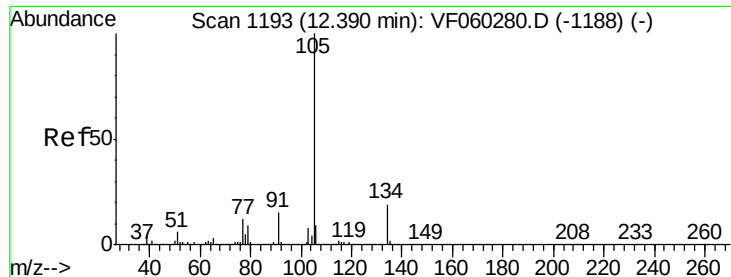
Tot Ion:119 Resp: 146
 Ion Ratio Lower Upper
 119 100
 91 66.0 30.3 91.0
 134 0.0 11.6 34.8#



#84
 1,2,4-Trimethylbenzene
 Concen: 17.959 ug/l
 RT: 12.13 min Scan# 1167
 Delta R.T. -0.15 min
 Lab File: VF060380.D
 Acq: 28 Sep 2018 21:17

Tgt Ion:105 Resp: 170
 Ion Ratio Lower Upper
 105 100
 120 39.6 22.4 67.0





#85

sec-Butylbenzene

Concen: 146.665 ug/l

RT: 12.32 min Scan# 1186

Delta R.T. -0.07 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampled :

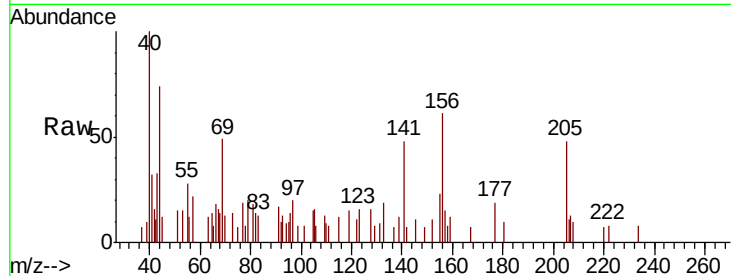
HC-SOIL-2

Tot Ion:105 Resp: 1436

Ion Ratio Lower Upper

105 100

134 0.0 9.6 28.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

12.32

500

400

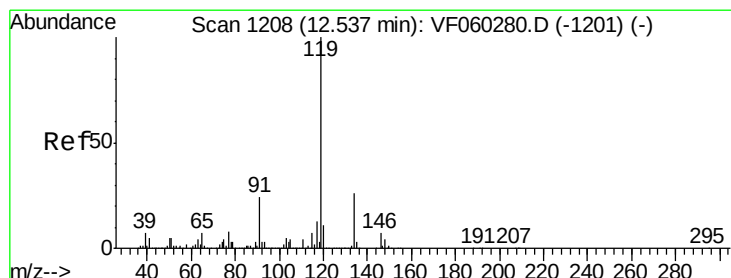
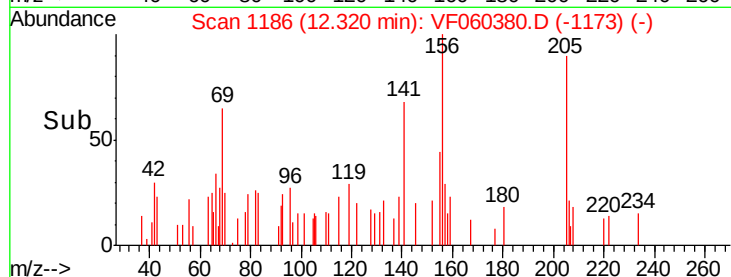
300

200

100

0

Time-->



#86

p-Isopropyltoluene

Concen: 29.646 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

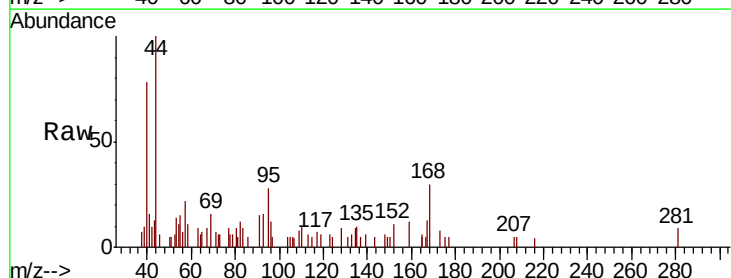
Tgt Ion:119 Resp: 289

Ion Ratio Lower Upper

119 100

134 0.0 12.9 38.7#

91 255.6 11.9 35.7#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VF0

500

400

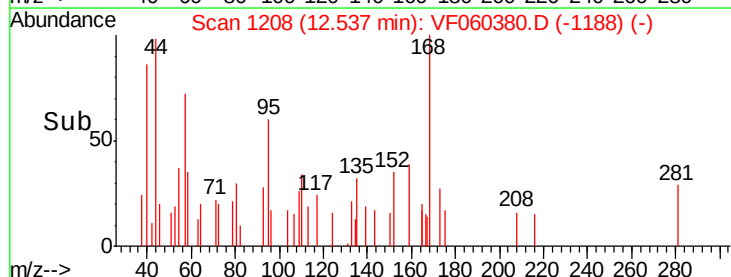
300

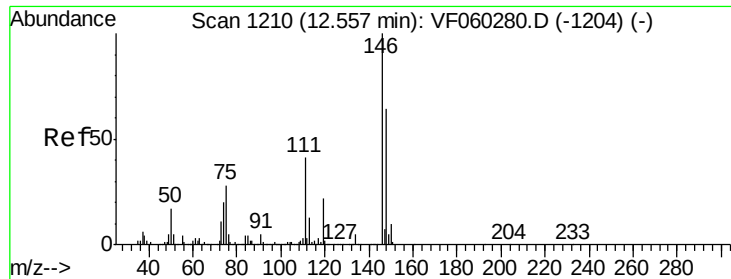
200

100

0

Time-->

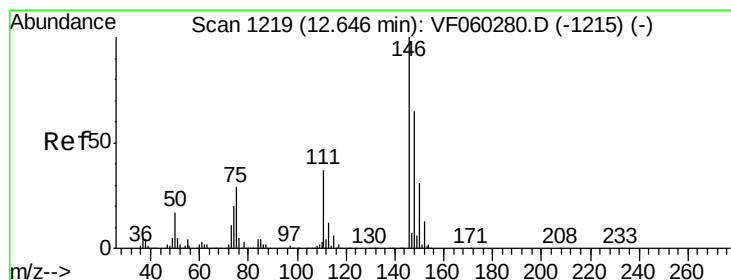
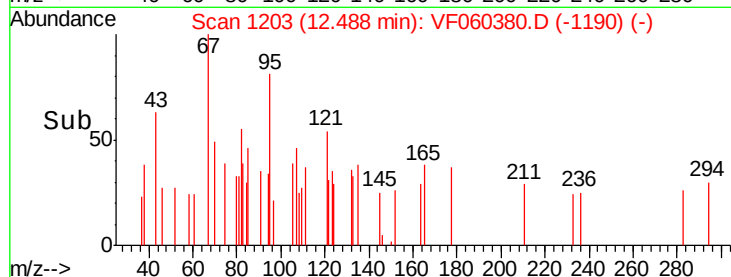
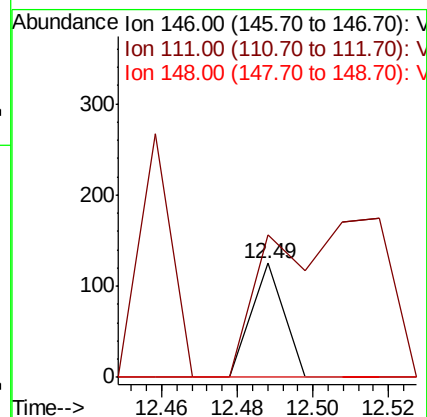
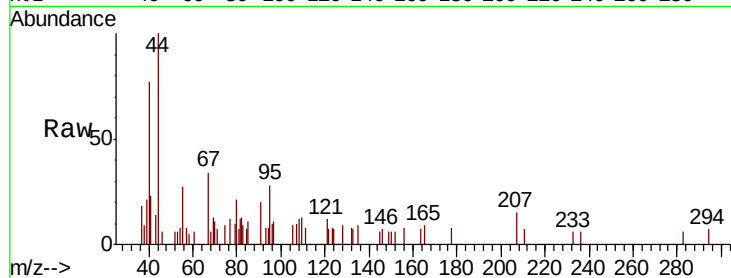




#87
 1,3-Dichlorobenzene
 Concen: 15.867 ug/l
 RT: 12.49 min Scan# 1203
 Delta R.T. -0.07 min
 Lab File: VF060380.D
 Acq: 28 Sep 2018 21:17

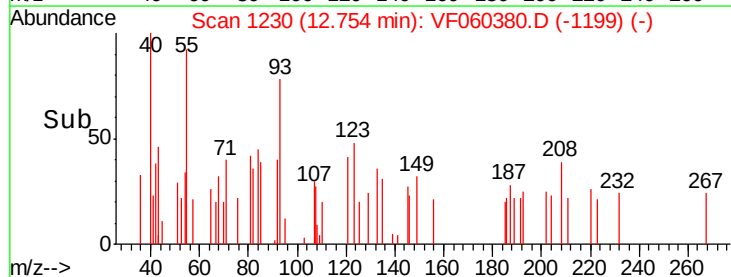
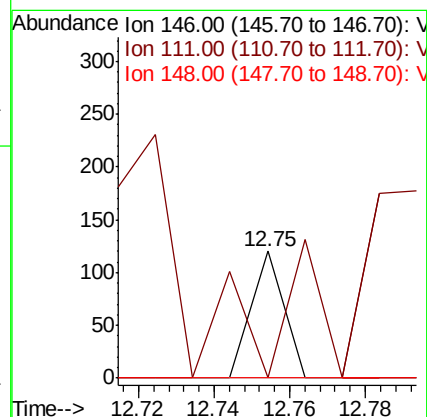
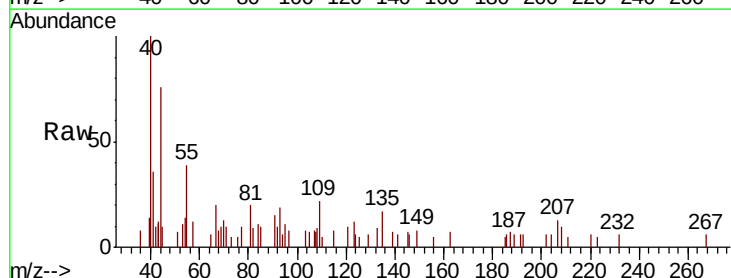
Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-2

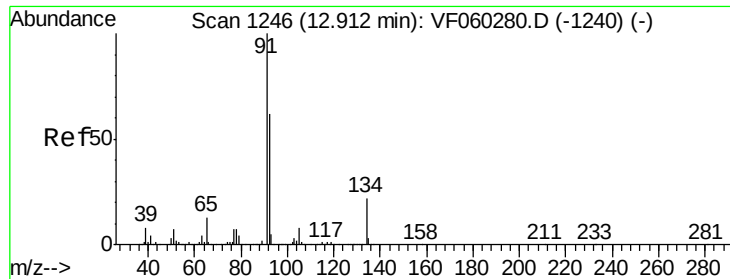
Tot Ion:146 Resp: 74
 Ion Ratio Lower Upper
 146 100
 111 125.6 20.5 61.6#
 148 0.0 32.2 96.6#



#88
 1,4-Dichlorobenzene
 Concen: 15.403 ug/l
 RT: 12.75 min Scan# 1230
 Delta R.T. 0.11 min
 Lab File: VF060380.D
 Acq: 28 Sep 2018 21:17

Tgt Ion:146 Resp: 71
 Ion Ratio Lower Upper
 146 100
 111 0.0 18.7 56.1#
 148 0.0 32.4 97.0#





#89

n-Butylbenzene

Concen: 51.286 ug/l

RT: 12.92 min Scan# 1247

Delta R.T. 0.01 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleID :

HC-SOIL-2

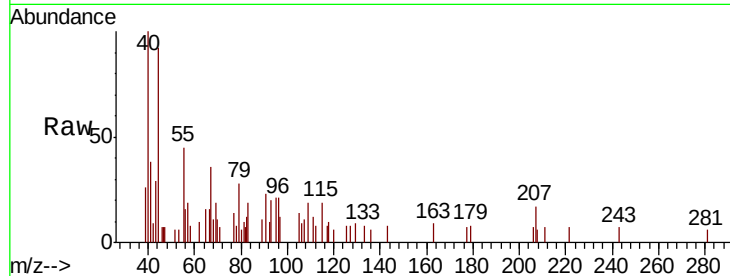
Tot Ion: 91 Resp: 502

Ion Ratio Lower Upper

91 100

92 45.5 31.1 93.5

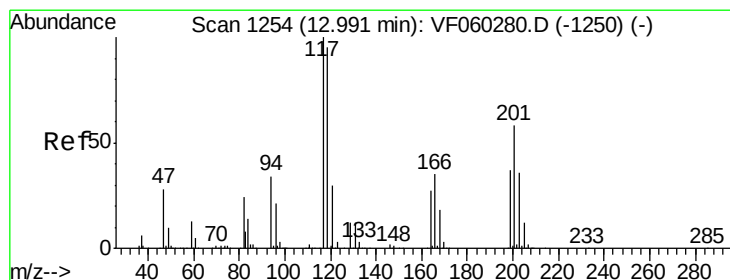
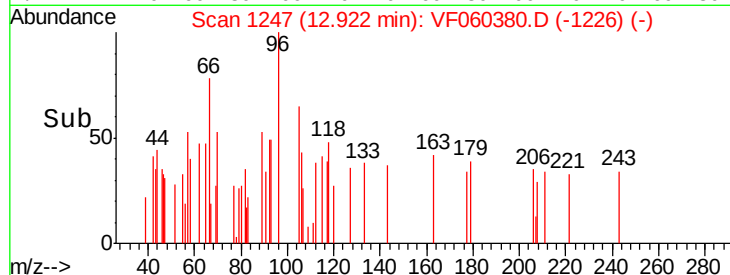
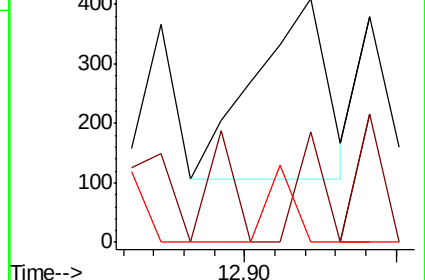
134 0.0 11.0 33.0#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 92.00 (91.70 to 92.70): VF0

Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 86.222 ug/l

RT: 13.01 min Scan# 1256

Delta R.T. 0.02 min

Lab File: VF060380.D

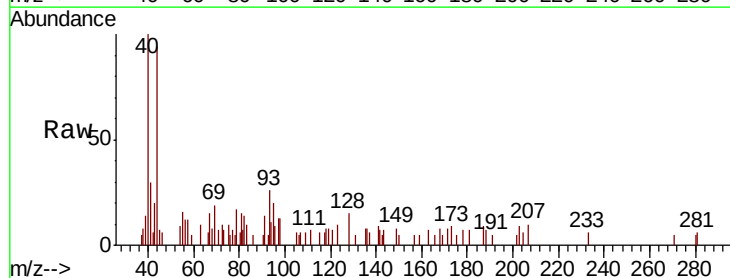
Acq: 28 Sep 2018 21:17

Tgt Ion: 117 Resp: 228

Ion Ratio Lower Upper

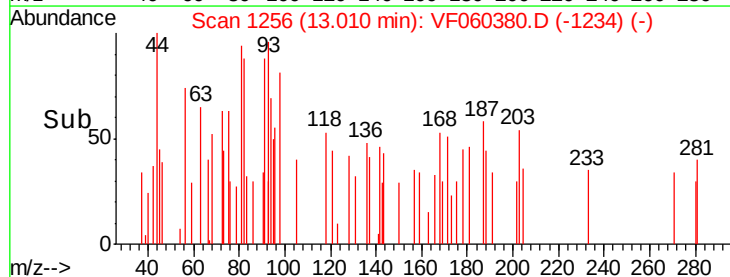
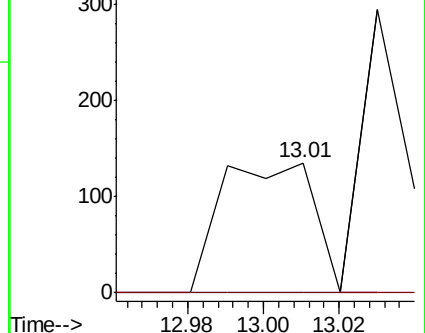
117 100

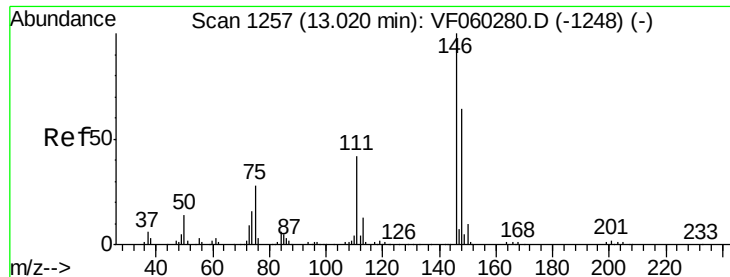
201 0.0 29.0 87.0#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V





#91

1,2-Dichlorobenzene

Concen: 49.900 ug/l

RT: 13.05 min Scan# 1260

Delta R.T. 0.03 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-2

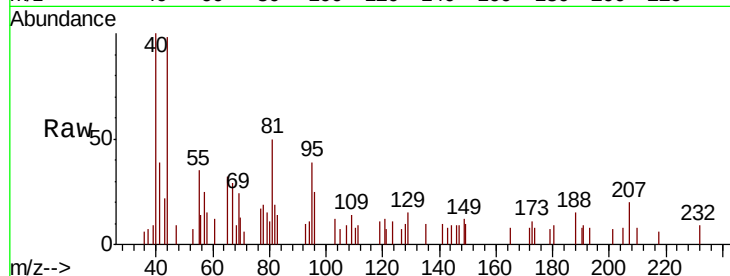
Tot Ion:146 Resp: 222

Ion Ratio Lower Upper

146 100

111 104.1 20.9 62.8#

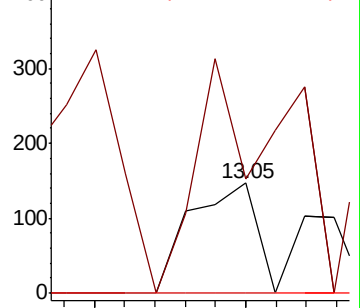
148 0.0 31.9 95.9#



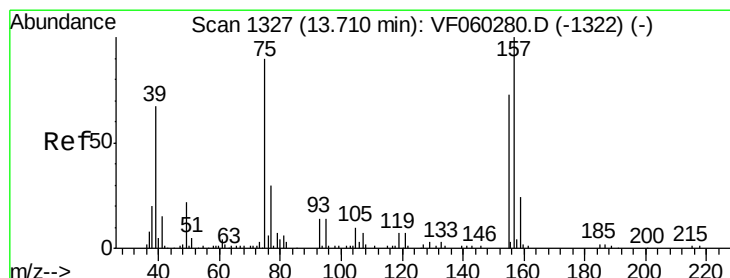
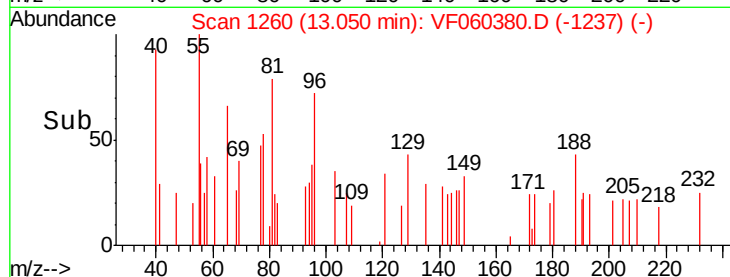
Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 692.907 ug/l

RT: 13.78 min Scan# 1334

Delta R.T. 0.07 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

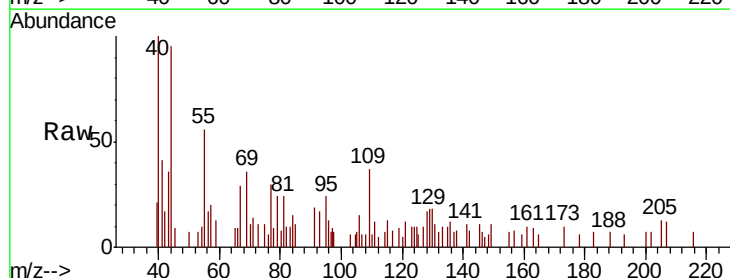
Tgt Ion: 75 Resp: 267

Ion Ratio Lower Upper

75 100

155 61.9 41.9 125.7

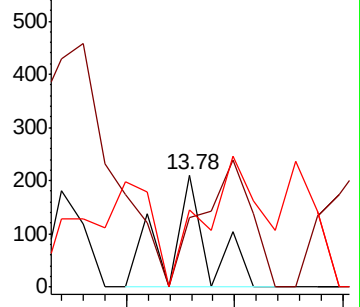
157 68.6 57.4 172.0



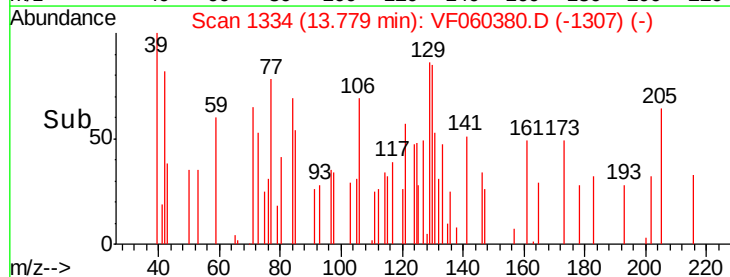
Abundance Ion 75.00 (74.70 to 75.70): VF0

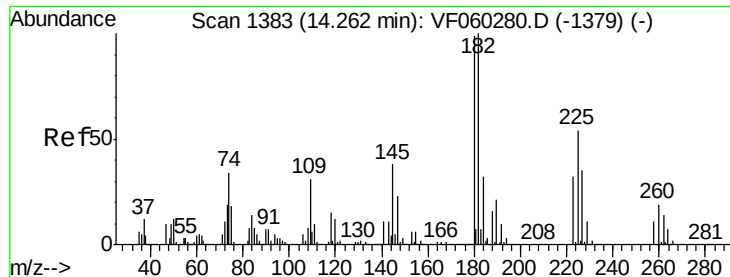
Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



Time-->





#93

1,2,4-Trichlorobenzene

Concen: 51.645 ug/l

RT: 14.29 min Scan# 1386

Delta R.T. 0.03 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-2

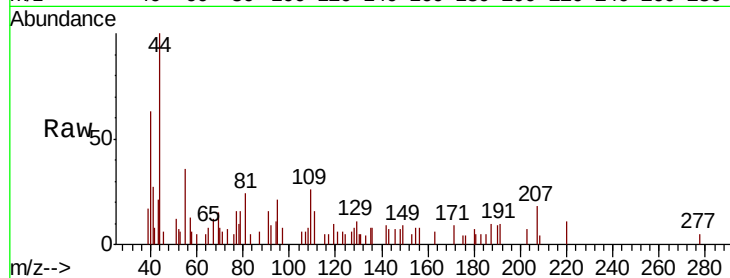
Tot Ion:180 Resp: 167

Ion Ratio Lower Upper

180 100

182 0.0 50.3 151.0#

145 0.0 18.9 56.9#

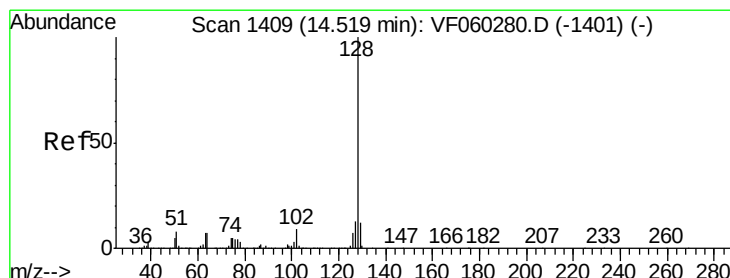
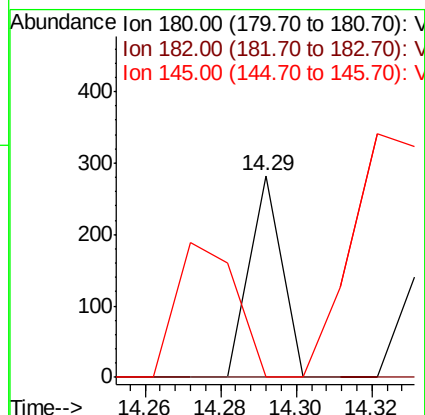
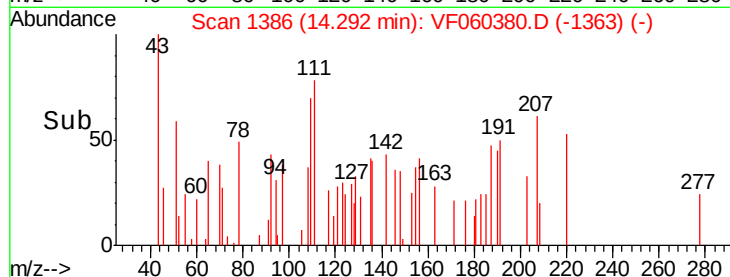


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

Time-->



#95

Naphthalene

Concen: 40.392 ug/l

RT: 14.49 min Scan# 1406

Delta R.T. -0.03 min

Lab File: VF060380.D

Acq: 28 Sep 2018 21:17

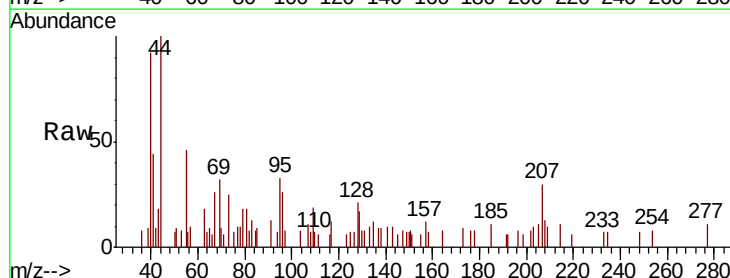
Tgt Ion:128 Resp: 229

Ion Ratio Lower Upper

128 100

127 33.3 10.1 15.1#

129 81.8 9.8 14.8#

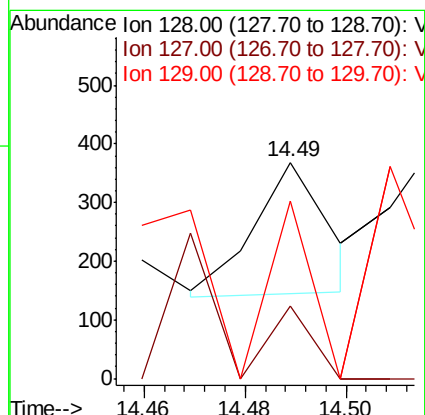
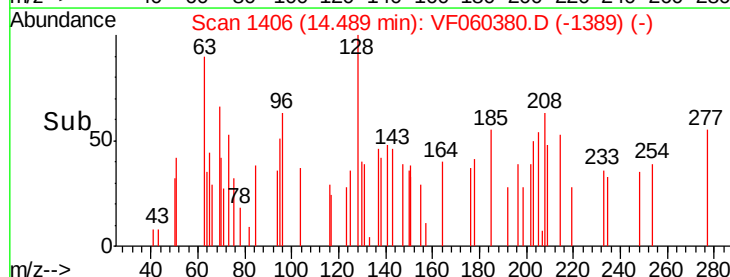


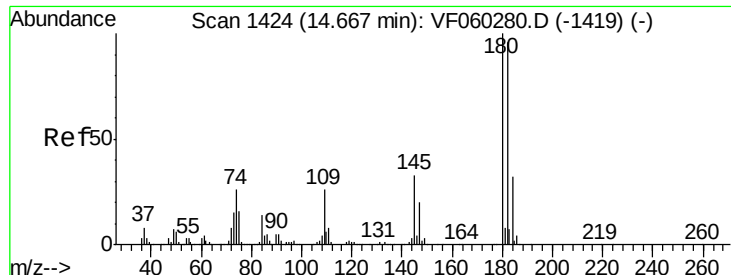
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

Time-->

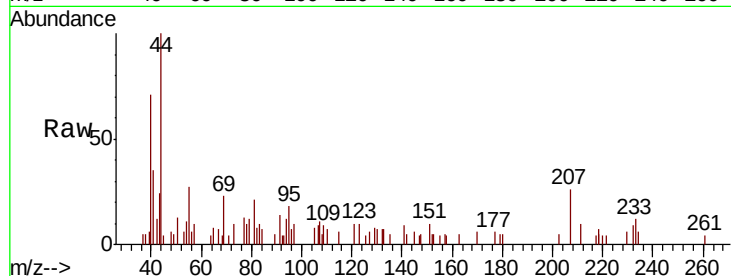




#96
 1,2,3-Trichlorobenzene
 Concen: 23.093 ug/l
 RT: 14.63 min Scan# 1420
 Delta R.T. -0.04 min
 Lab File: VF060380.D
 Acq: 28 Sep 2018 21:17

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-2

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.8	143.4#
145	133.3	16.4	49.1#



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

