

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092018\
 Data File : VF060301.D
 Acq On : 20 Sep 2018 17:03
 Operator : VA/AP
 Sample : J5021-01
 Misc : 4.68/5mL/MSVOA F/SOIL
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-A

Quant Time: Sep 21 05:21:56 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	5.02	168	167643	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.74	114	250573	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.90	117	204001	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.62	152	93349	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.99	65	66860	29.62	ug/l	-0.01
Spiked Amount				50.000		
Recovery						59.24%
35) Dibromofluoromethane	4.27	113	89942	40.27	ug/l	-0.01
Spiked Amount				50.000		
Recovery						80.54%
50) Toluene-d8	7.68	98	229032	39.37	ug/l	-0.02
Spiked Amount				50.000		
Recovery						78.74%
62) 4-Bromofluorobenzene	11.50	95	85270	33.91	ug/l	0.00
Spiked Amount				50.000		
Recovery						67.82%

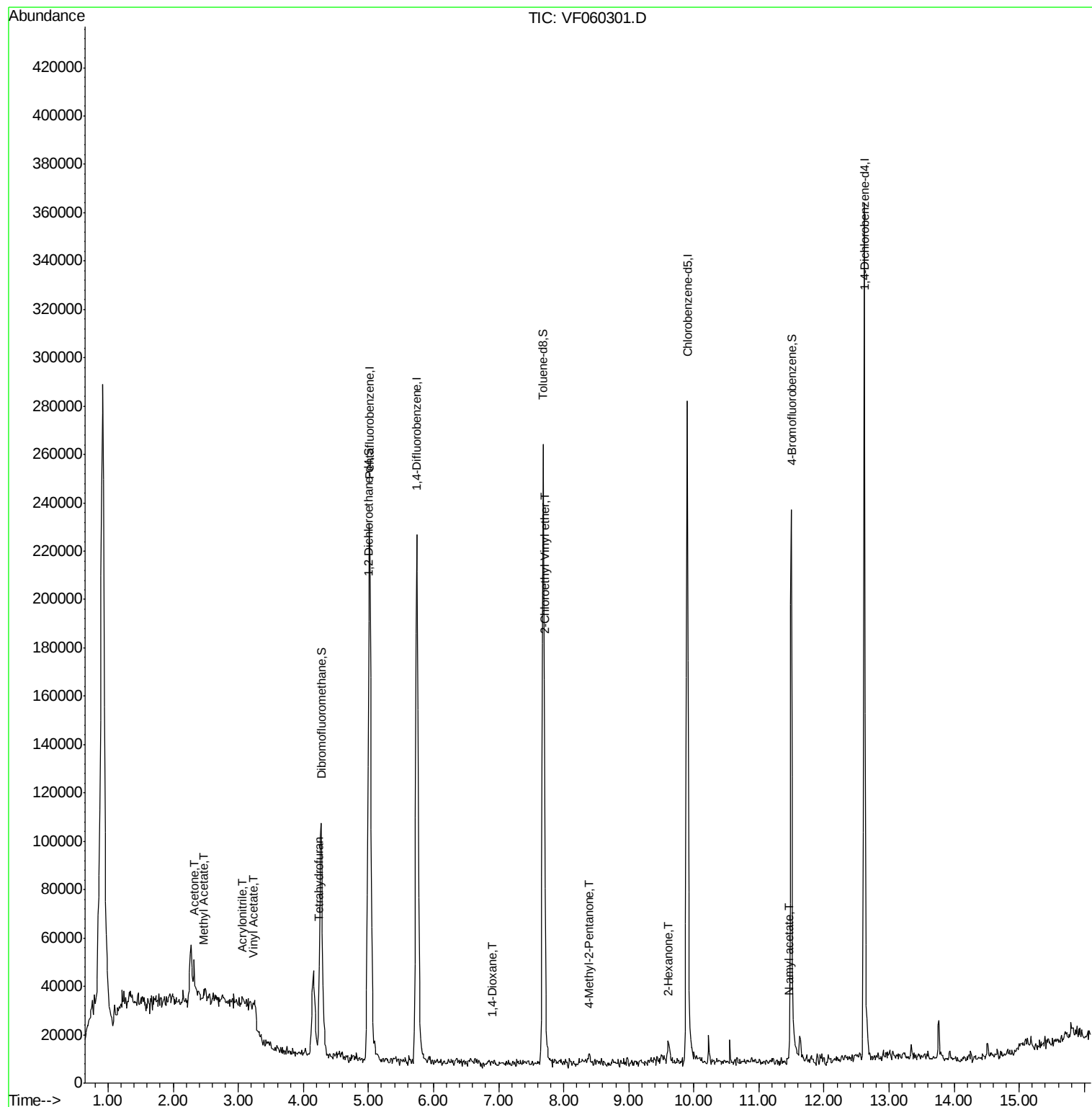
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.00	85	744	Below Cal		88
5) Bromomethane	1.34	94	294	Below Cal		94
11) Tert butyl alcohol	2.65	59	843	Below Cal	#	1
13) Acrolein	2.08	56	114	Below Cal	#	1
15) Acrylonitrile	3.06	53	569	1.78	ug/l	# 65
16) Acetone	2.32	43	19834	31.20	ug/l	93
17) Carbon Disulfide	1.90	76	287	Below Cal	#	1
18) Methyl Acetate	2.47	43	6258	5.91	ug/l	# 62
23) Vinyl Acetate	3.22	43	4305	1.75	ug/l	99
29) Tetrahydrofuran	4.23	42	905	2.89	ug/l	# 76
49) 1,4-Dioxane	6.90	88	63	6.31	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.38	43	4116	3.35	ug/l	89
58) 2-Chloroethyl Vinyl ether	7.71	63	325	2.24	ug/l	100
59) 2-Hexanone	9.61	43	8521	9.75	ug/l	99
74) N-amyl acetate	11.46	43	3590	2.01	ug/l	# 78
78) n-propylbenzene	11.68	91	1599	Below Cal		96
85) sec-Butylbenzene	12.38	105	934	Below Cal		84
86) p-Isopropyltoluene	12.52	119	1382	Below Cal	#	78
89) n-Butylbenzene	12.91	91	1688	Below Cal		75

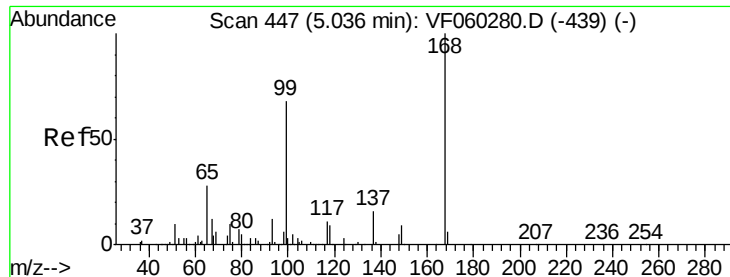
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.02 min Scan# 445

Delta R.T. -0.01 min

Lab File: VF060301.D

Acq: 20 Sep 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

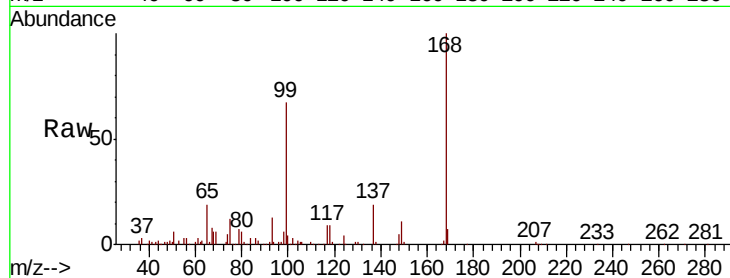
LS-SOIL-A

Tot Ion:168 Resp: 167643

Ion Ratio Lower Upper

168 100

99 67.3 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

5.02

60000

50000

40000

30000

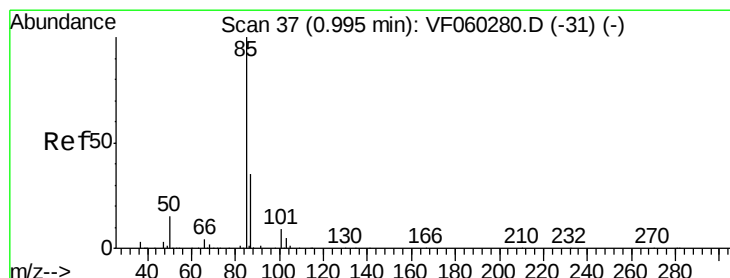
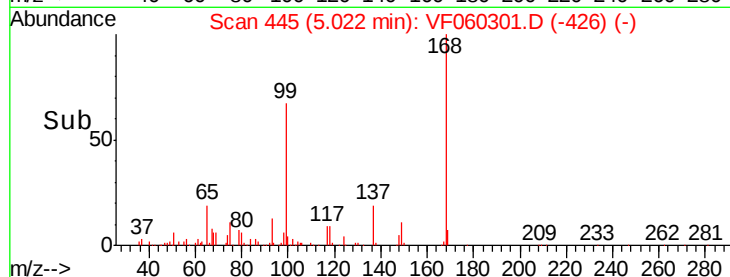
20000

10000

0

4.90 5.00 5.10 5.20

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.00 min Scan# 37

Delta R.T. 0.01 min

Lab File: VF060301.D

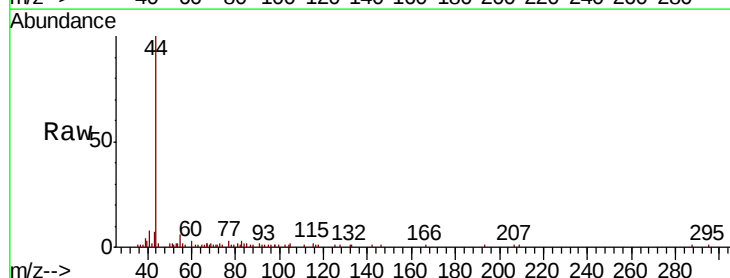
Acq: 20 Sep 2018 17:03

Tgt Ion: 85 Resp: 744

Ion Ratio Lower Upper

85 100

87 41.8 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

300

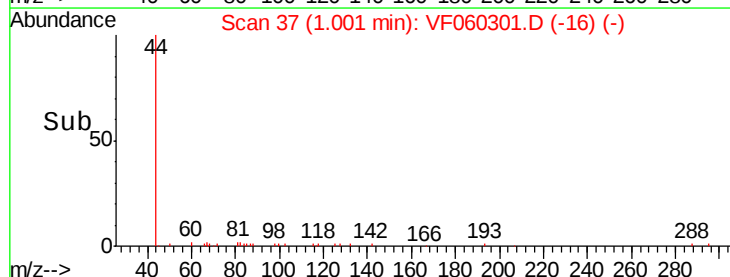
200

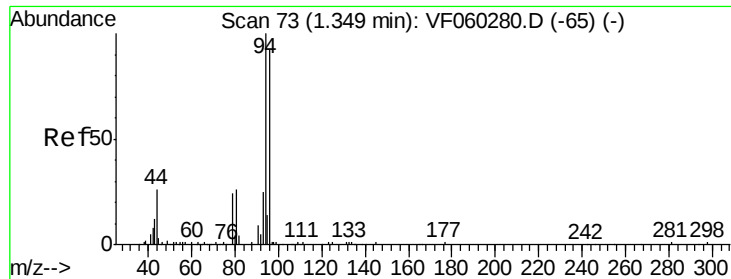
100

0

0.95 1.00 1.05

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.34 min Scan# 71

Delta R.T. -0.01 min

Lab File: VF060301.D

Acq: 20 Sep 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

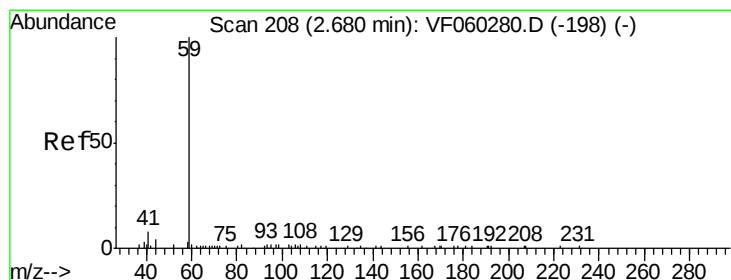
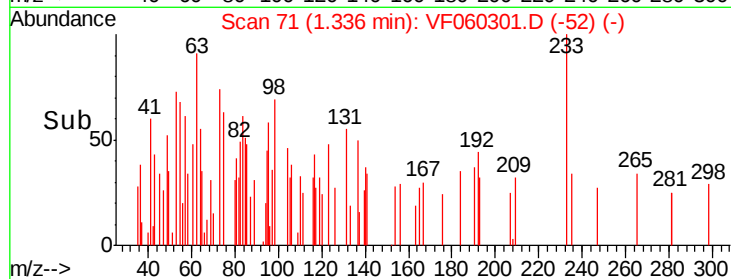
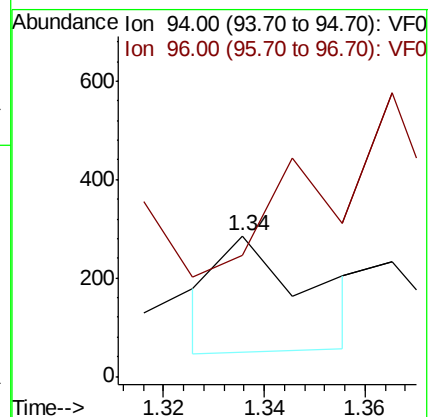
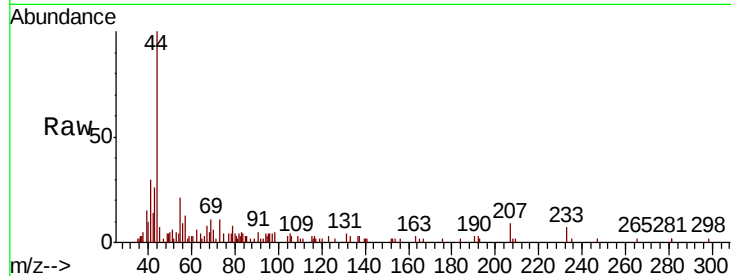
LS-SOIL-A

Tot Ion: 94 Resp: 294

Ion Ratio Lower Upper

94 100

96 86.7 73.9 110.9



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.65 min Scan# 204

Delta R.T. -0.03 min

Lab File: VF060301.D

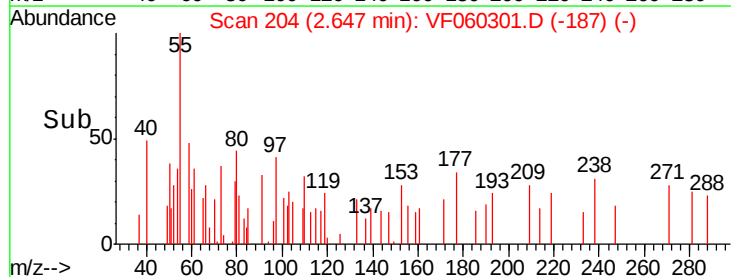
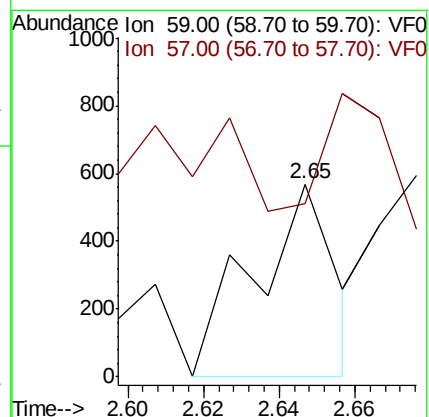
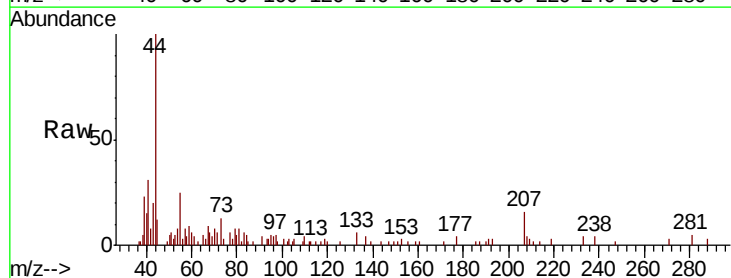
Acq: 20 Sep 2018 17:03

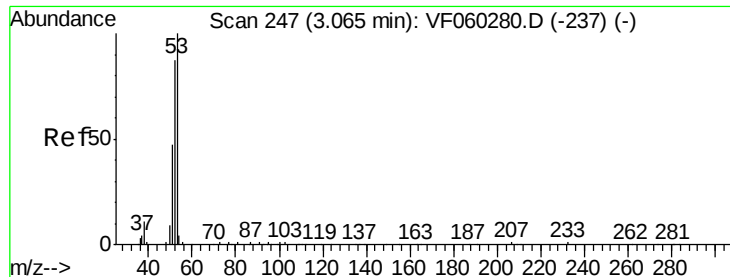
Tgt Ion: 59 Resp: 843

Ion Ratio Lower Upper

59 100

57 90.0 12.4 18.6#





#15

Acrylonitrile

Concen: 1.78 ug/l

RT: 3.06 min Scan# 246

Delta R.T. -0.00 min

Lab File: VF060301.D

Acq: 20 Sep 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

LS-SOIL-A

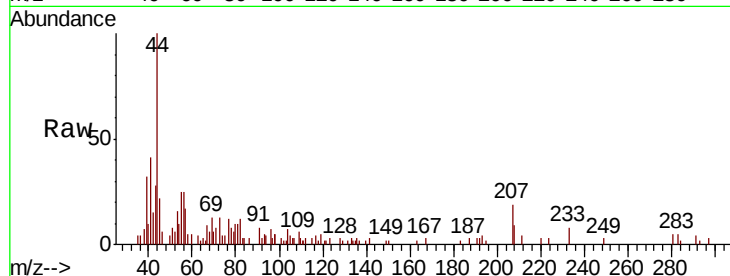
Tot Ion: 53 Resp: 569

Ion Ratio Lower Upper

53 100

52 37.5 69.5 104.3#

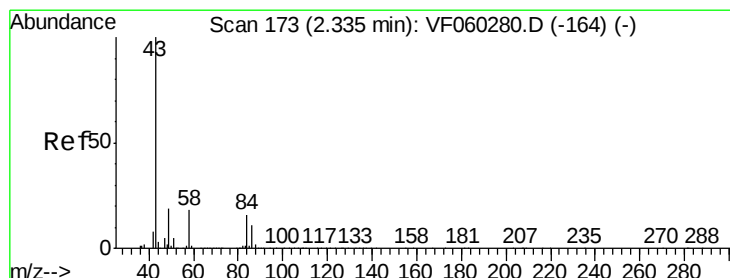
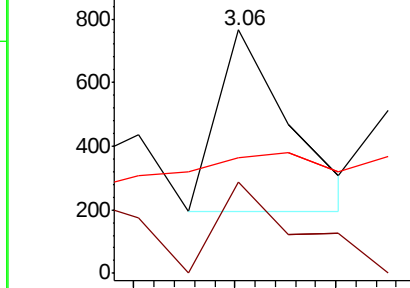
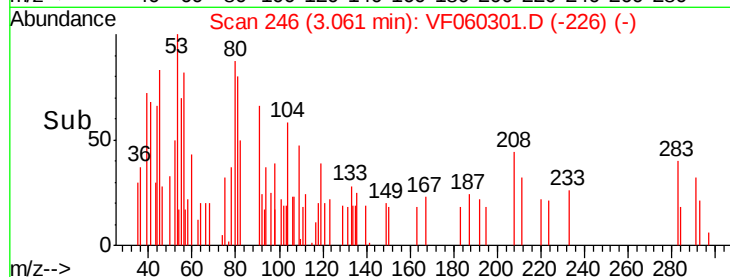
51 47.3 38.1 57.1



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: 31.20 ug/l

RT: 2.32 min Scan# 171

Delta R.T. -0.01 min

Lab File: VF060301.D

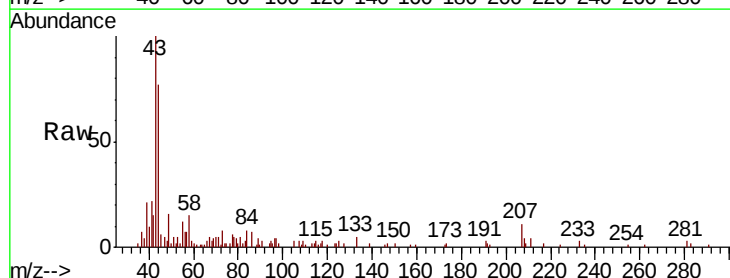
Acq: 20 Sep 2018 17:03

Tgt Ion: 43 Resp: 19834

Ion Ratio Lower Upper

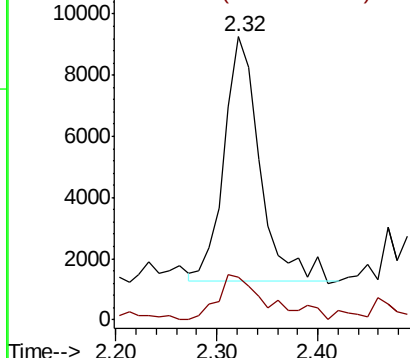
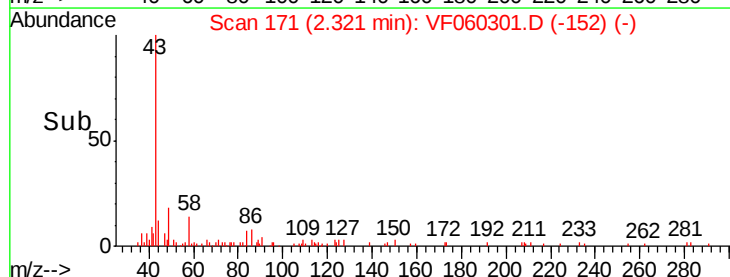
43 100

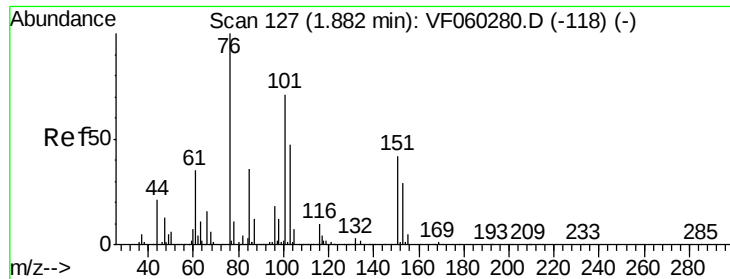
58 15.0 14.5 21.7



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

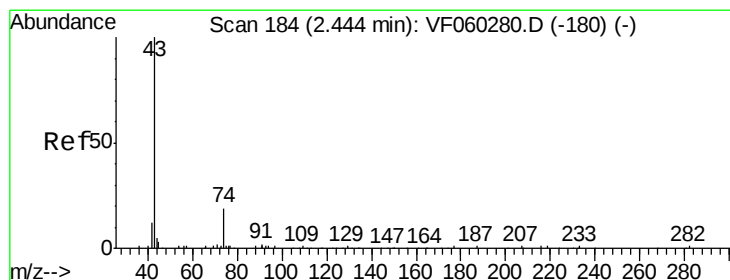
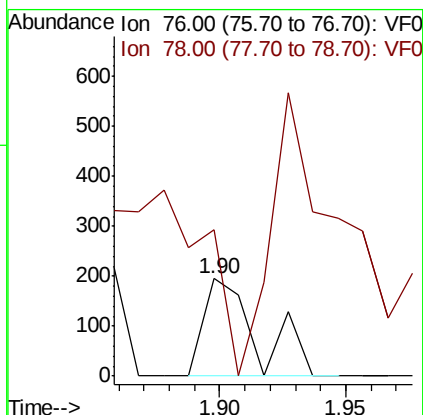
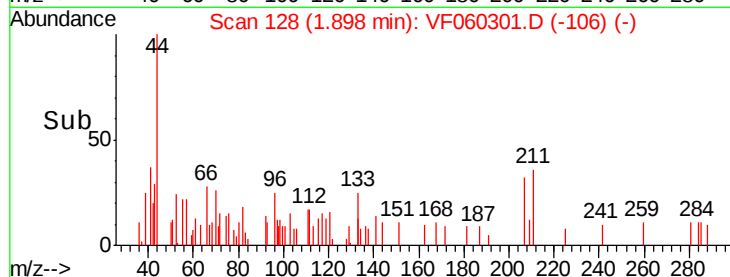
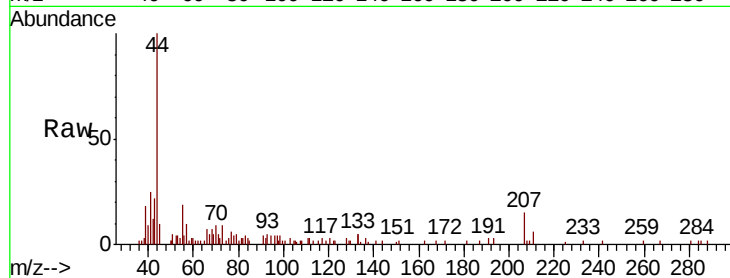




#17
Carbon Disulfide
Concen: Below Cal
RT: 1.90 min Scan# 128
Delta R.T. 0.02 min
Lab File: VF060301.D
Acq: 20 Sep 2018 17:03

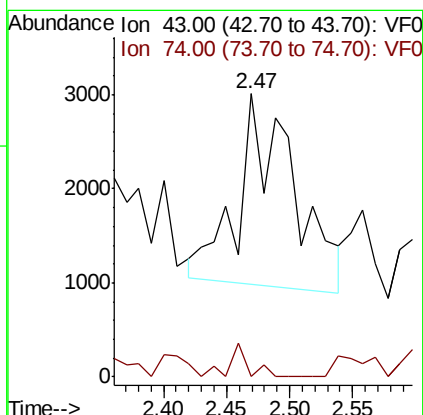
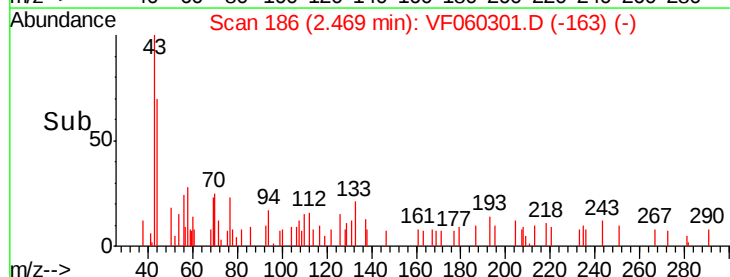
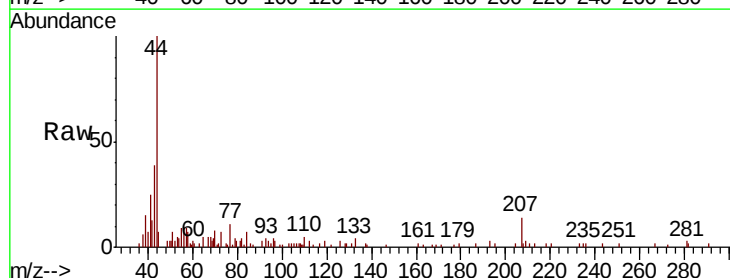
Instrument :
MSVOA_F
ClientSampleId :
LS-SOIL-A

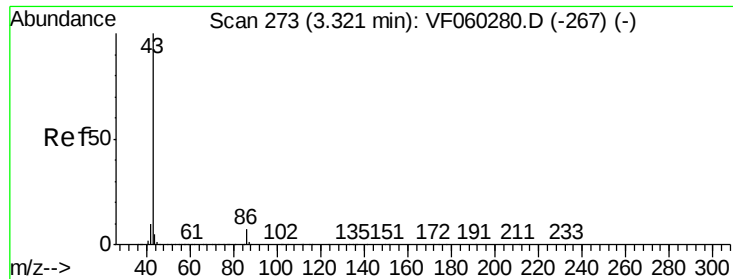
Tot Ion: 76 Resp: 287
Ion Ratio Lower Upper
76 100
78 150.3 9.4 14.0#



#18
Methyl Acetate
Concen: 5.91 ug/l
RT: 2.47 min Scan# 186
Delta R.T. 0.03 min
Lab File: VF060301.D
Acq: 20 Sep 2018 17:03

Tgt Ion: 43 Resp: 6258
Ion Ratio Lower Upper
43 100
74 0.0 12.7 19.1#





#23

Vinyl Acetate

Concen: 1.75 ug/l

RT: 3.22 min Scan# 262

Delta R.T. -0.10 min

Lab File: VF060301.D

Acq: 20 Sep 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

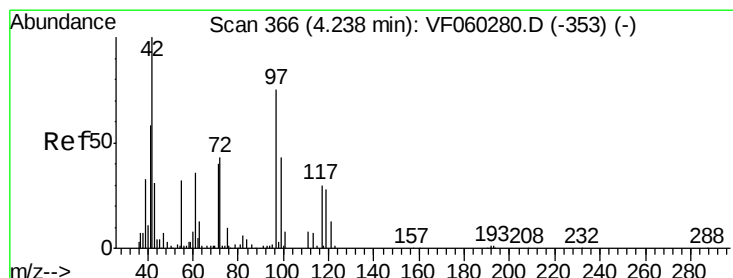
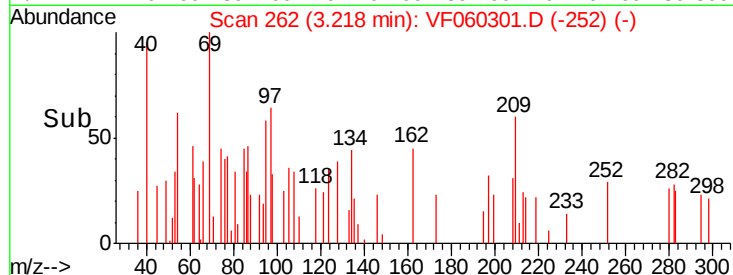
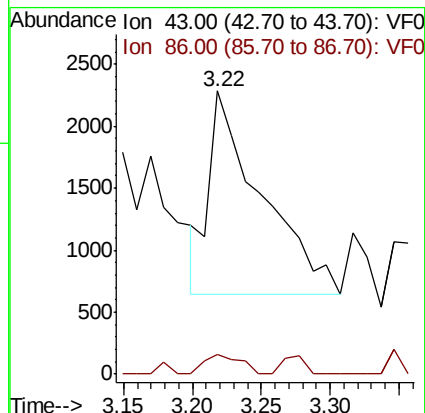
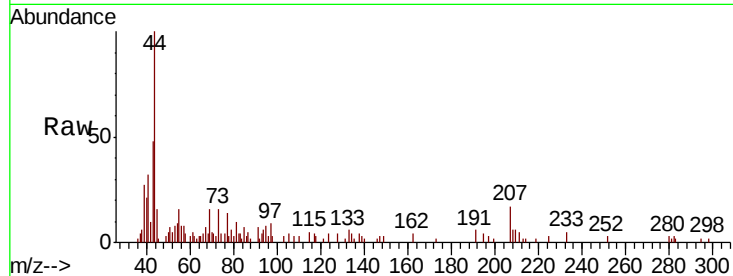
LS-SOIL-A

Tot Ion: 43 Resp: 4305

Ion Ratio Lower Upper

43 100

86 7.1 5.9 8.9



#29

Tetrahydrofuran

Concen: 2.89 ug/l

RT: 4.23 min Scan# 365

Delta R.T. -0.00 min

Lab File: VF060301.D

Acq: 20 Sep 2018 17:03

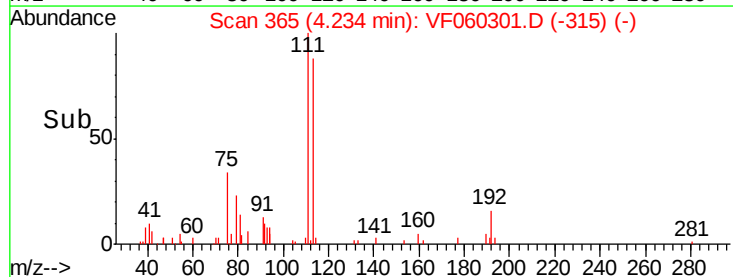
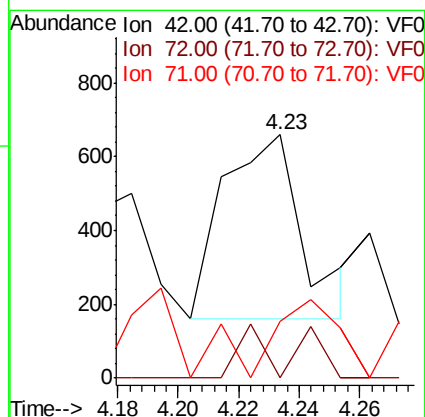
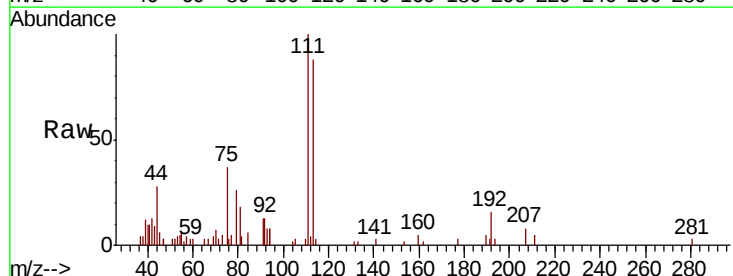
Tgt Ion: 42 Resp: 905

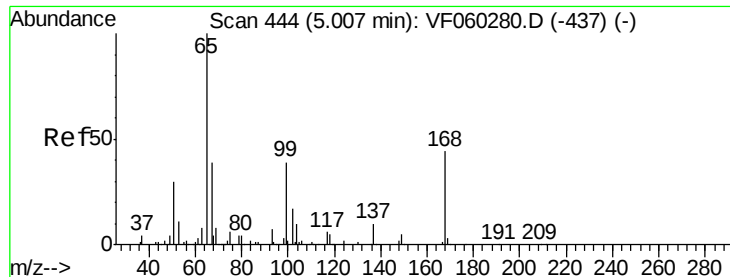
Ion Ratio Lower Upper

42 100

72 18.7 32.6 49.0#

71 32.9 32.7 49.1





#33

1,2-Dichloroethane-d4

Concen: 29.62 ug/l

RT: 4.99 min Scan# 442

Delta R.T. -0.01 min

Lab File: VF060301.D

Acq: 20 Sep 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

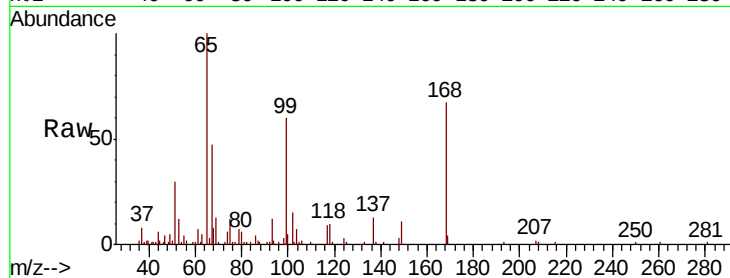
LS-SOIL-A

Tot Ion: 65 Resp: 66860

Ion Ratio Lower Upper

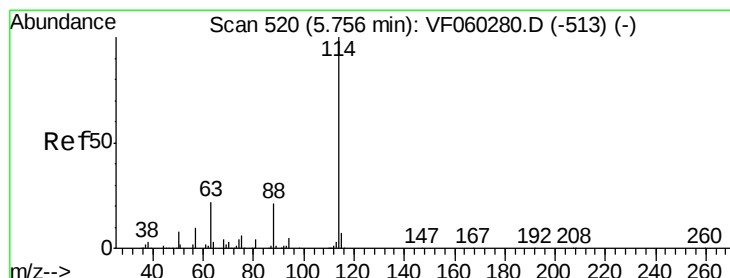
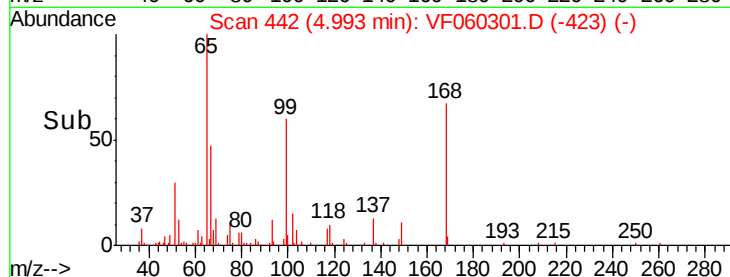
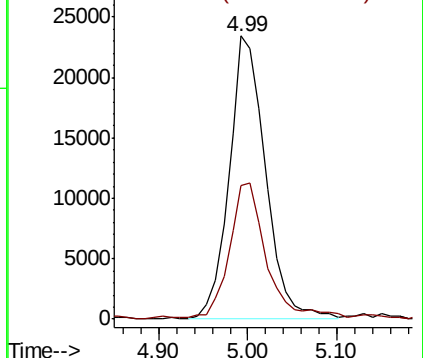
65 100

67 47.3 0.0 94.4



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.74 min Scan# 518

Delta R.T. -0.01 min

Lab File: VF060301.D

Acq: 20 Sep 2018 17:03

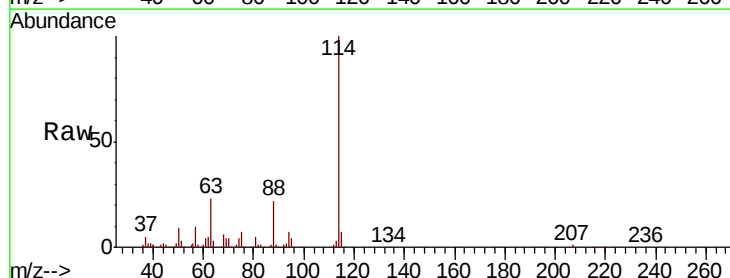
Tgt Ion: 114 Resp: 250573

Ion Ratio Lower Upper

114 100

63 22.5 0.0 43.8

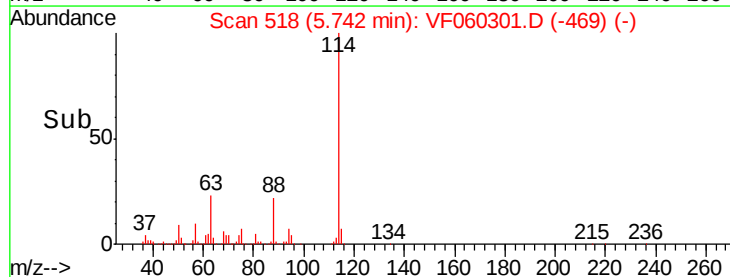
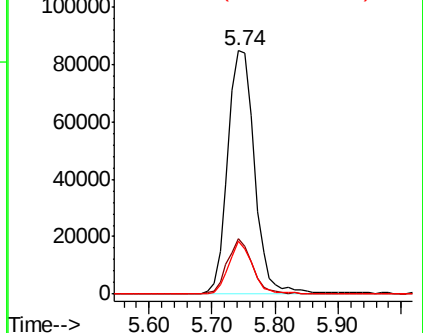
88 21.9 0.0 41.2

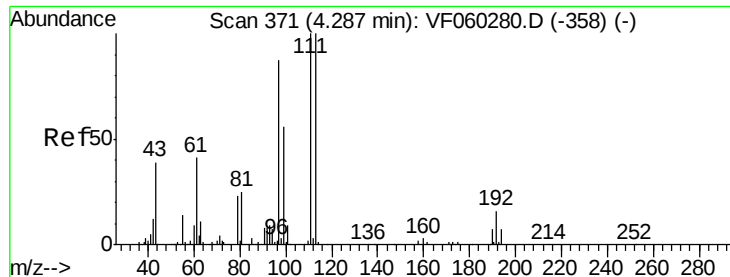


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 40.27 ug/l

RT: 4.27 min Scan# 369

Delta R.T. -0.01 min

Lab File: VF060301.D

Acq: 20 Sep 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

LS-SOIL-A

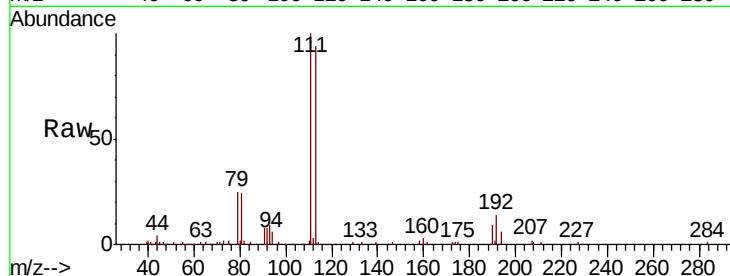
Tot Ion:113 Resp: 89942

Ion Ratio Lower Upper

113 100

111 106.2 79.6 119.4

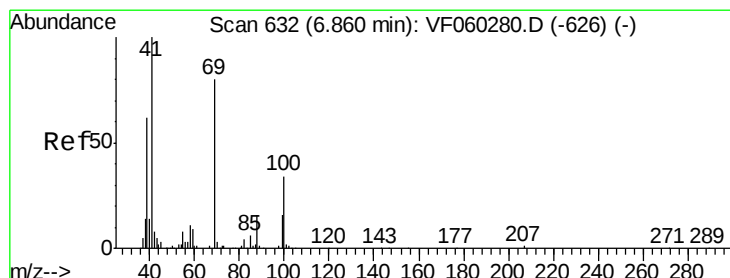
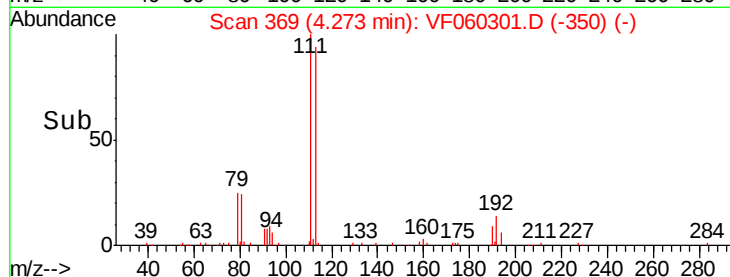
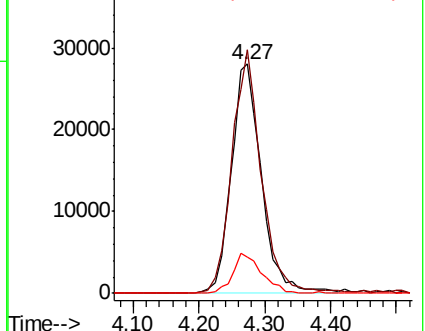
192 15.7 13.0 19.6



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



#49

1,4-Dioxane

Concen: 6.31 ug/l

RT: 6.90 min Scan# 635

Delta R.T. 0.04 min

Lab File: VF060301.D

Acq: 20 Sep 2018 17:03

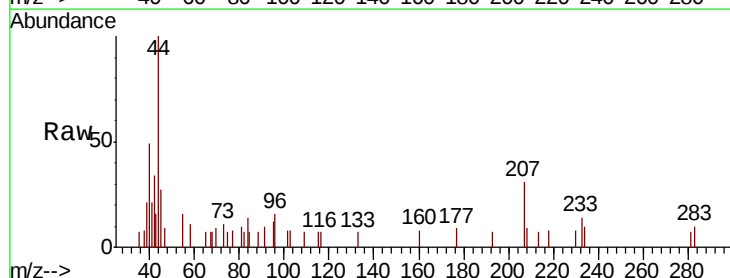
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 222.6 40.2 60.4#

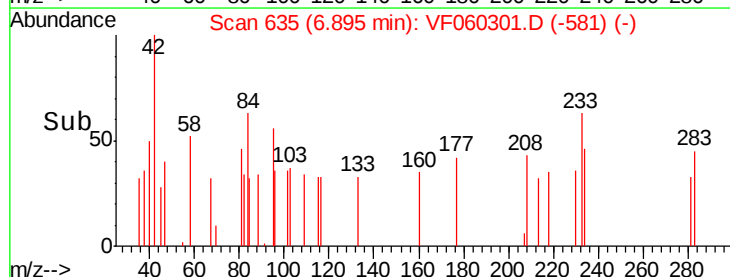
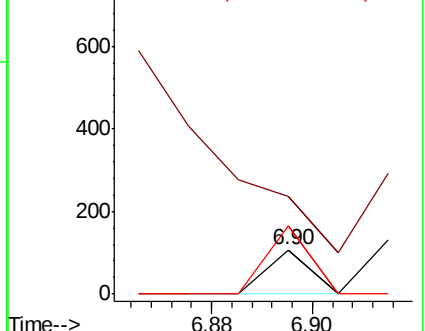
58 154.7 56.7 85.1#

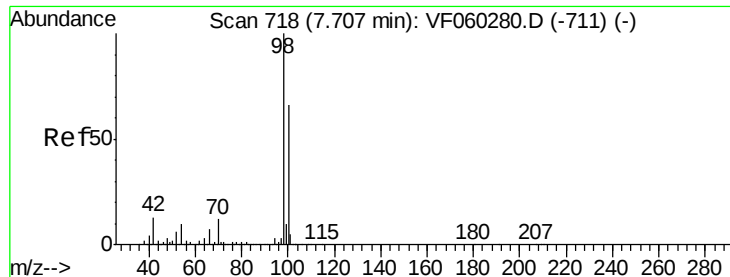


Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 39.37 ug/l

RT: 7.68 min Scan# 715

Delta R.T. -0.02 min

Lab File: VF060301.D

Acq: 20 Sep 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

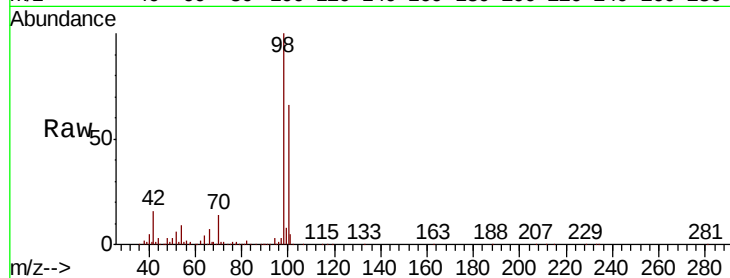
LS-SOIL-A

Tot Ion: 98 Resp: 229032

Ion Ratio Lower Upper

98 100

100 66.5 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.68

100000

80000

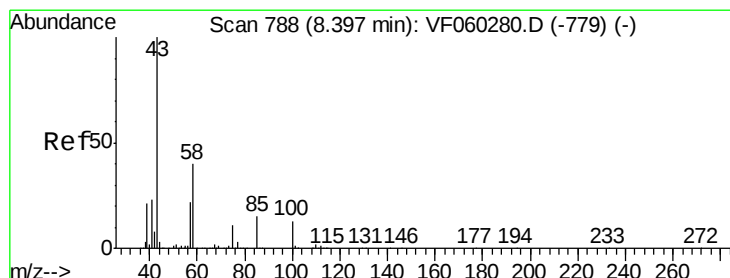
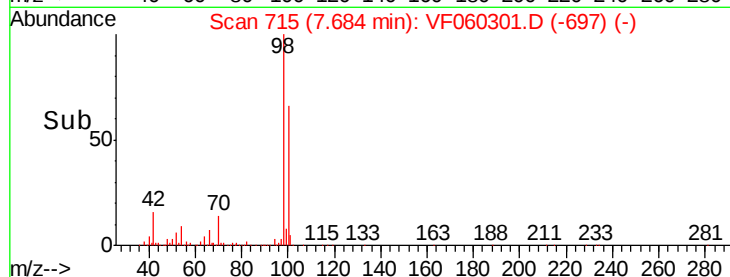
60000

40000

20000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 3.35 ug/l

RT: 8.38 min Scan# 786

Delta R.T. -0.01 min

Lab File: VF060301.D

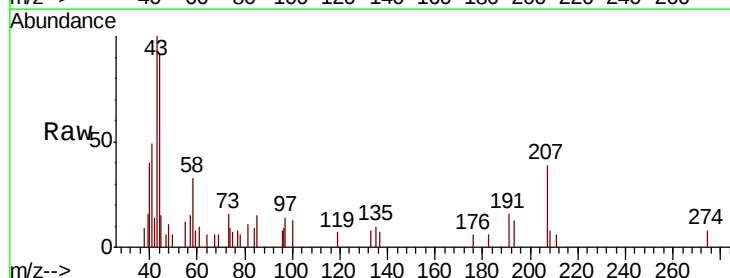
Acq: 20 Sep 2018 17:03

Tgt Ion: 43 Resp: 4116

Ion Ratio Lower Upper

43 100

58 32.9 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.38

2000

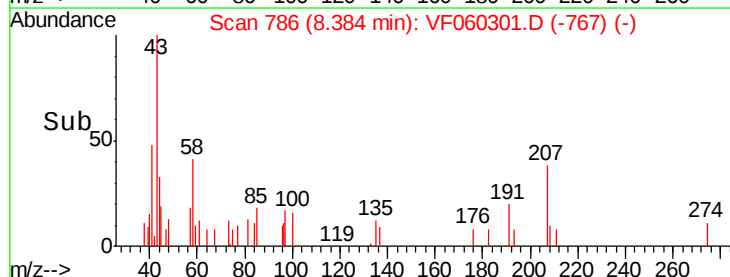
1500

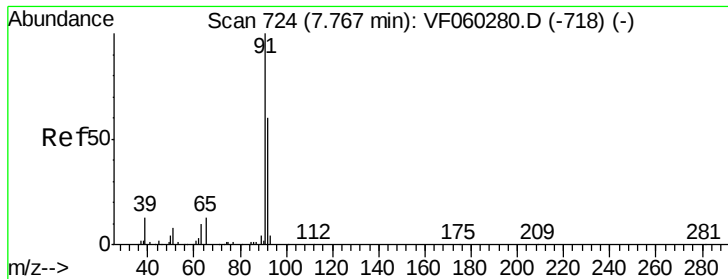
1000

500

0

Time-->





#58

2-Chloroethyl Vinyl ether

Concen: 2.24 ug/l

RT: 7.71 min Scan# 718

Delta R.T. -0.05 min

Lab File: VF060301.D

Acq: 20 Sep 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

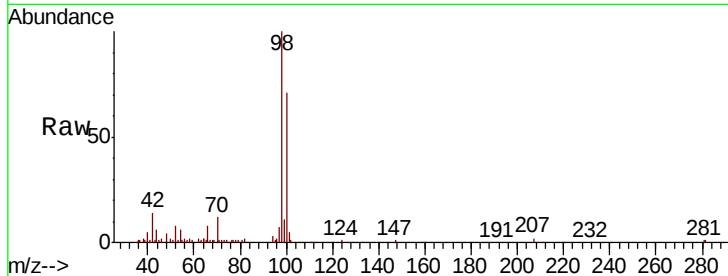
LS-SOIL-A

Tot Ion: 63 Resp: 325

Ion Ratio Lower Upper

63 100

106 0.0 0.0 0.0

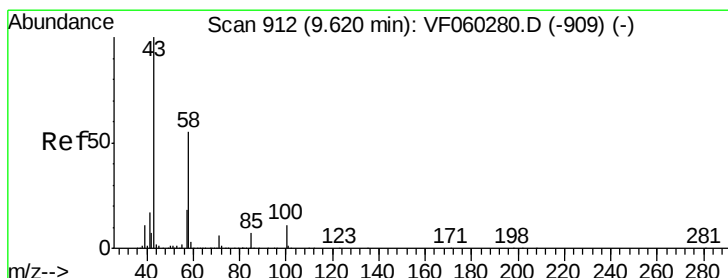
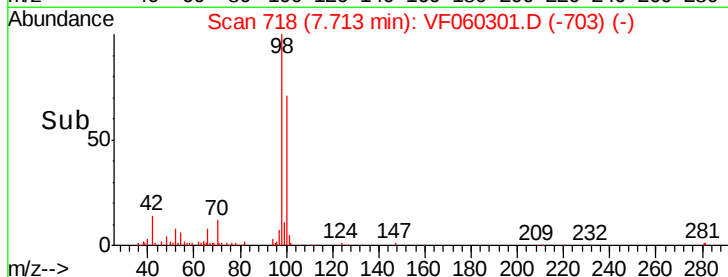


Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.71

Time-->



#59

2-Hexanone

Concen: 9.75 ug/l

RT: 9.61 min Scan# 910

Delta R.T. -0.01 min

Lab File: VF060301.D

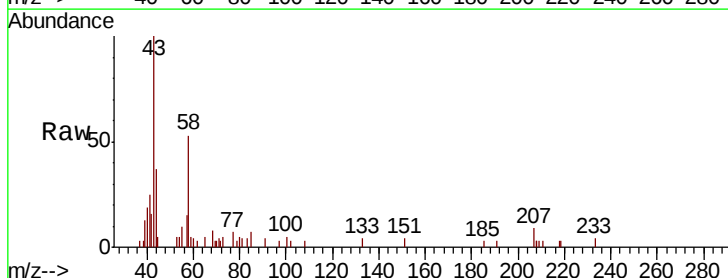
Acq: 20 Sep 2018 17:03

Tgt Ion: 43 Resp: 8521

Ion Ratio Lower Upper

43 100

58 52.7 25.9 77.6

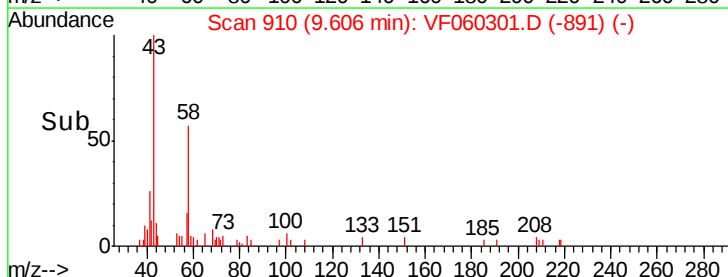


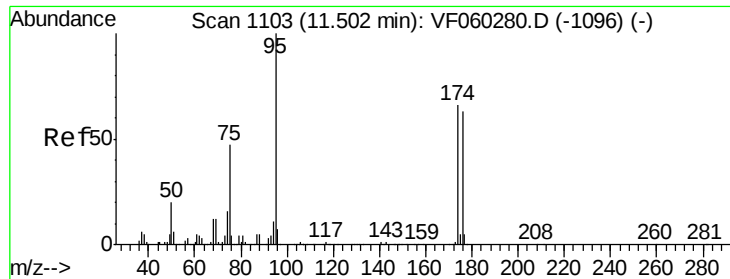
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.61

Time-->





#62

4-Bromofluorobenzene

Concen: 33.91 ug/l

RT: 11.50 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VF060301.D

Acq: 20 Sep 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

LS-SOIL-A

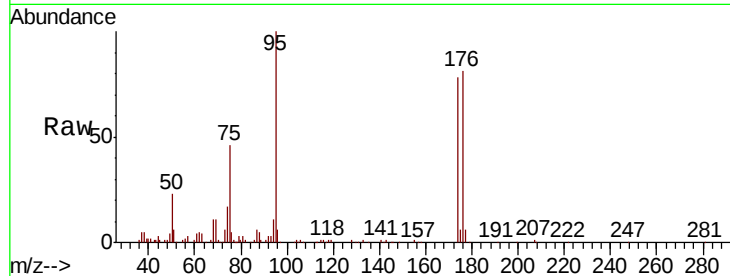
Tot Ion: 95 Resp: 85270

Ion Ratio Lower Upper

95 100

174 77.9 0.0 131.2

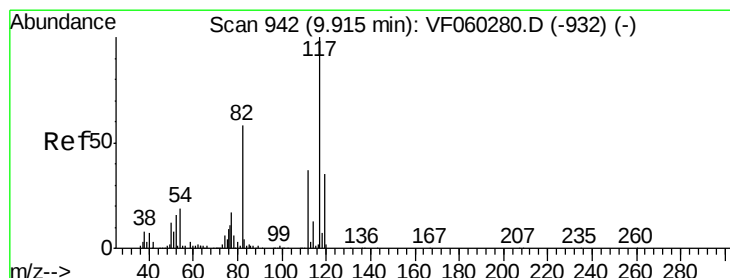
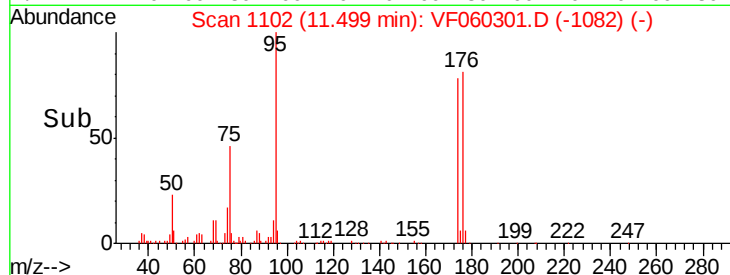
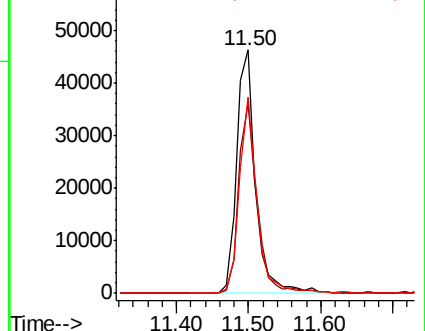
176 80.7 0.0 126.6



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



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.90 min Scan# 940

Delta R.T. -0.01 min

Lab File: VF060301.D

Acq: 20 Sep 2018 17:03

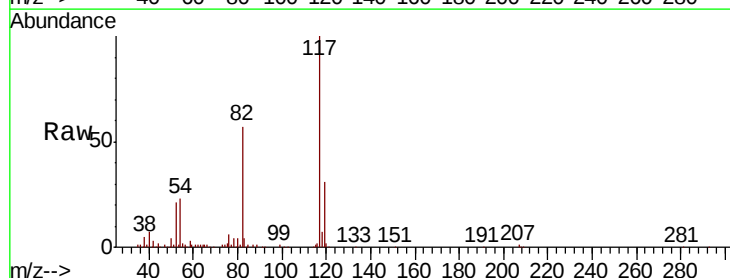
Tgt Ion: 117 Resp: 204001

Ion Ratio Lower Upper

117 100

82 57.4 46.2 69.2

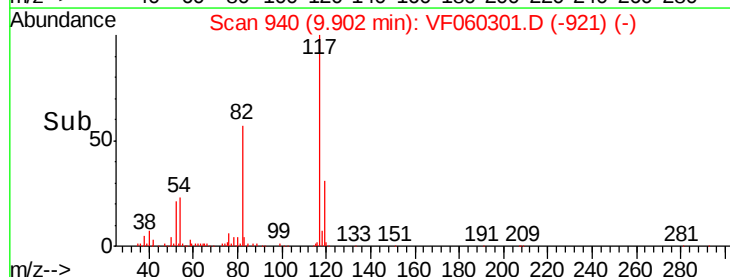
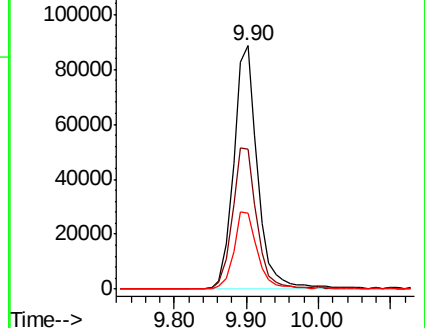
119 31.4 27.8 41.6

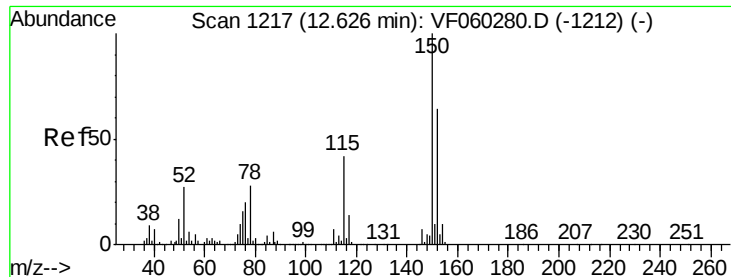


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V



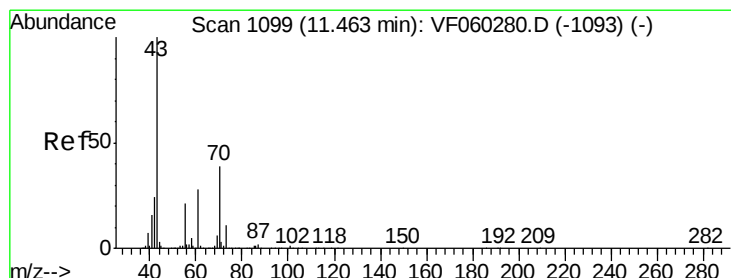
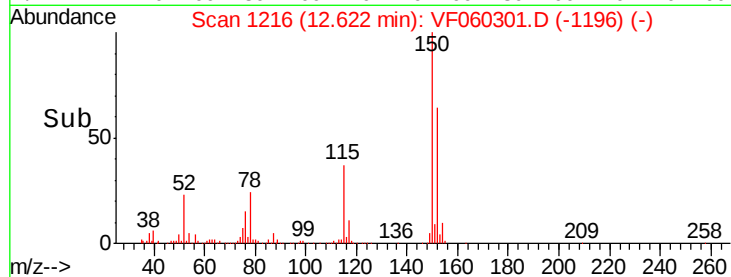
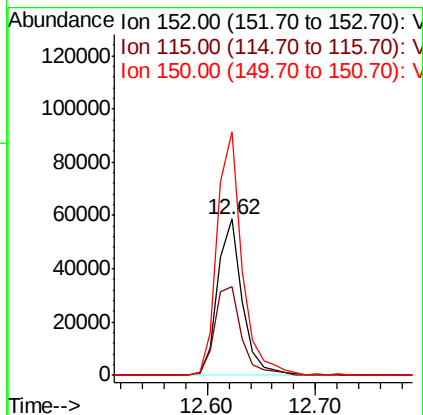
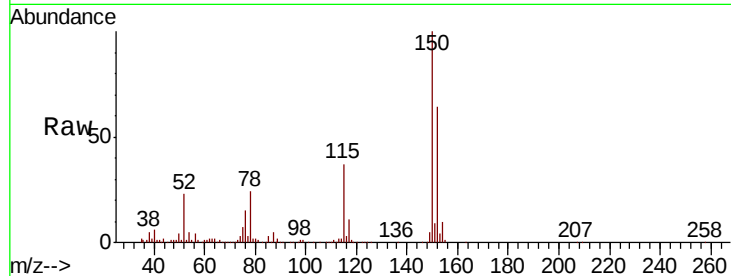


#72

1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.62 min Scan# 1216
Delta R.T. -0.00 min
Lab File: VF060301.D
Acq: 20 Sep 2018 17:03

Instrument :
MSVOA_F
ClientSampleId :
LS-SOIL-A

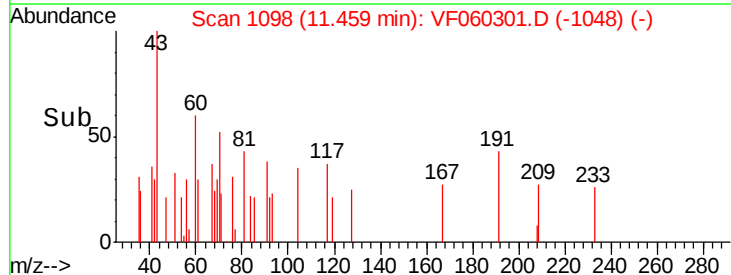
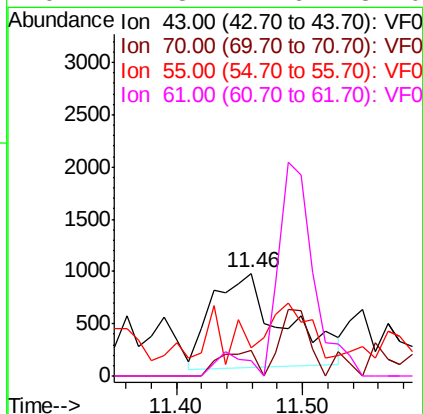
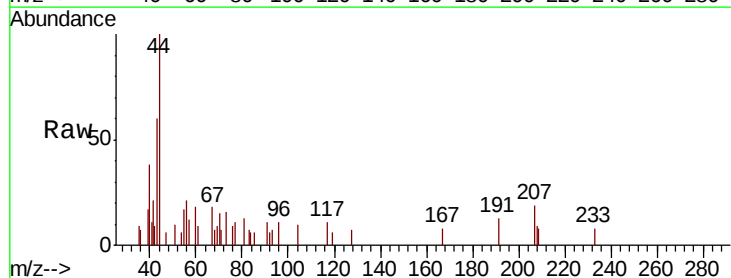
Tot Ion:152 Resp: 93349
Ion Ratio Lower Upper
152 100
115 57.0 32.6 97.8
150 156.1 0.0 314.2

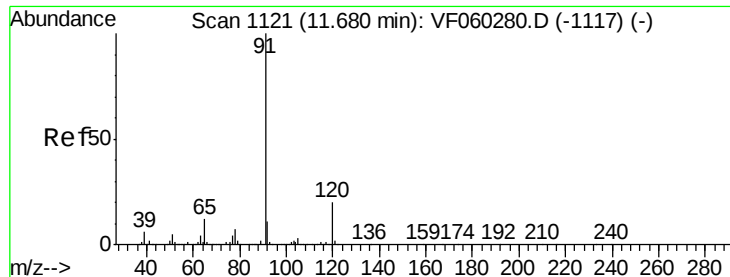


#74

N-ethyl acetate
Concen: 2.01 ug/l
RT: 11.46 min Scan# 1098
Delta R.T. -0.00 min
Lab File: VF060301.D
Acq: 20 Sep 2018 17:03

Tgt Ion: 43 Resp: 3590
Ion Ratio Lower Upper
43 100
70 25.4 31.4 47.2#
55 27.7 16.8 25.2#
61 14.8 22.6 34.0#





#78

n-propylbenzene

Concen: Below Cal

RT: 11.68 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VF060301.D

Acq: 20 Sep 2018 17:03

Instrument :

MSVOA_F

ClientSampleId :

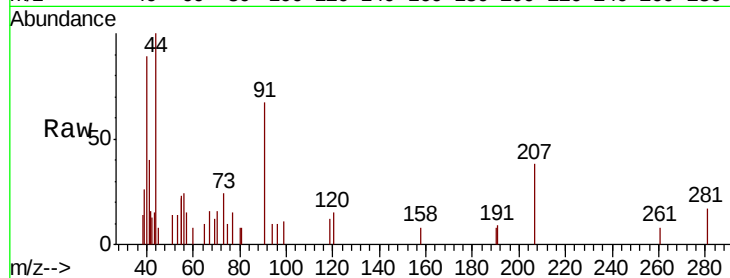
LS-SOIL-A

Tot Ion: 91 Resp: 1599

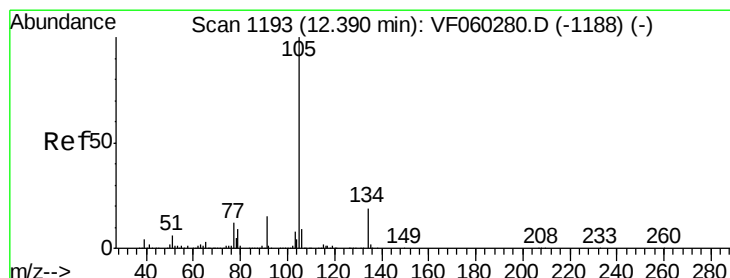
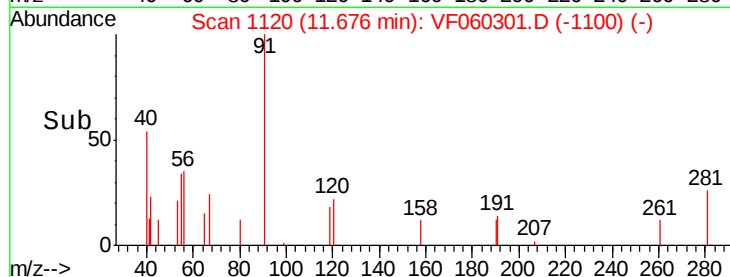
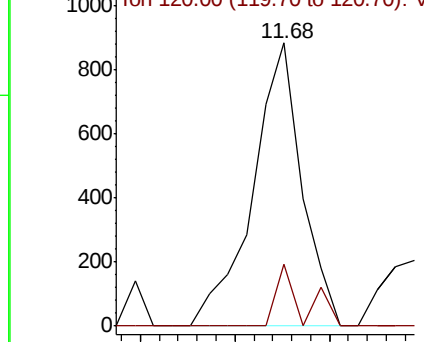
Ion Ratio Lower Upper

91 100

120 21.7 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): VF060280.D (-1117) (-)



#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1191

Delta R.T. -0.01 min

Lab File: VF060301.D

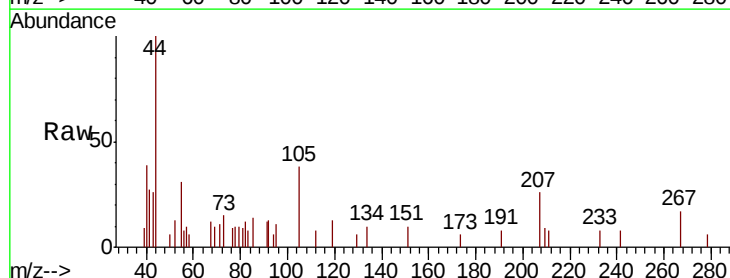
Acq: 20 Sep 2018 17:03

Tgt Ion: 105 Resp: 934

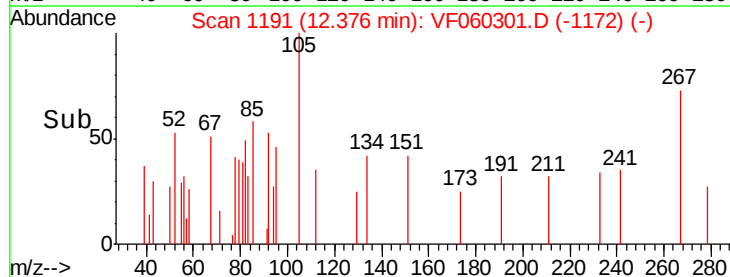
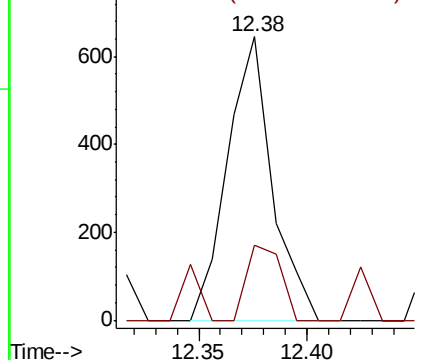
Ion Ratio Lower Upper

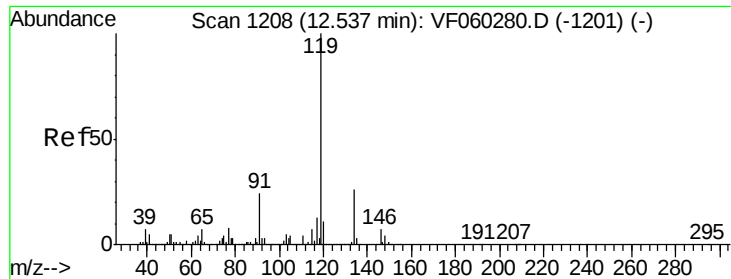
105 100

134 26.5 9.6 28.6



Abundance Ion 105.00 (104.70 to 105.70): VF060280.D (-1188) (-)





#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.52 min Scan# 1206
 Delta R.T. -0.01 min
 Lab File: VF060301.D
 Acq: 20 Sep 2018 17:03

Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-A

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.8	12.9	38.7
91	45.2	11.9	35.7

