

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092018\
 Data File : VF060302.D
 Acq On : 20 Sep 2018 17:31
 Operator : VA/AP
 Sample : J5021-05
 Misc : 6.01/5mL/MSVOA F/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-B

Quant Time: Sep 21 05:22:13 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	230184	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.75	114	390382	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.90	117	342534	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	157531	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.01	65	135900	43.85	ug/l	0.00
Spiked Amount			Recovery	=	87.70%	
35) Dibromofluoromethane	4.28	113	149923	43.08	ug/l	-0.01
Spiked Amount			Recovery	=	86.16%	
50) Toluene-d8	7.69	98	336644	37.15	ug/l	-0.02
Spiked Amount			Recovery	=	74.30%	
62) 4-Bromofluorobenzene	11.49	95	142934	36.49	ug/l	-0.01
Spiked Amount			Recovery	=	72.98%	

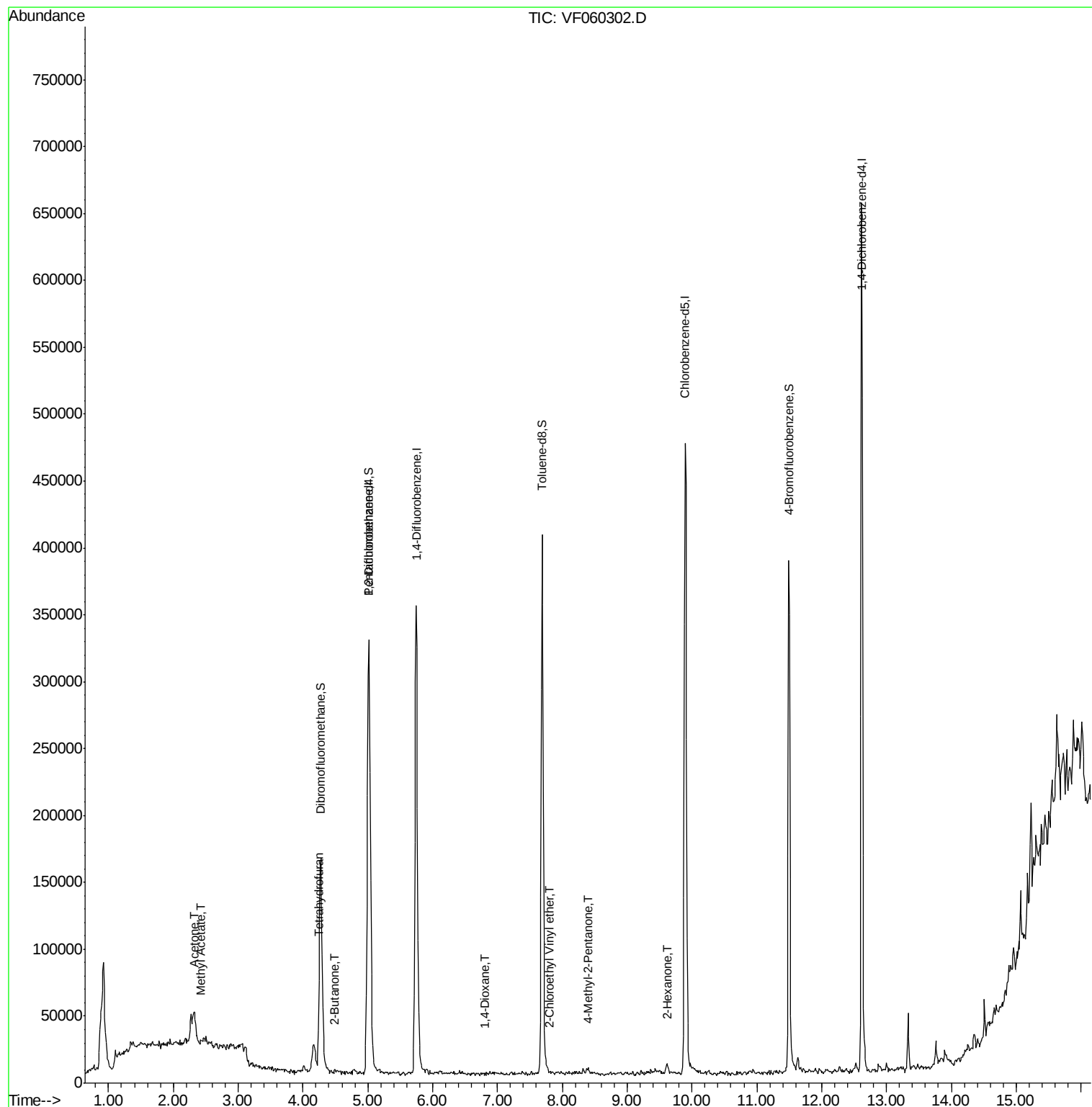
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.99	85	795	Below Cal	#	40
5) Bromomethane	1.39	94	677	Below Cal		99
11) Tert butyl alcohol	2.69	59	623	Below Cal	#	1
13) Acrolein	1.94	56	825	Below Cal		90
16) Acetone	2.32	43	21752	24.92	ug/l	92
17) Carbon Disulfide	1.88	76	572	Below Cal	#	1
18) Methyl Acetate	2.43	43	1493	1.03	ug/l	# 82
25) 2-Butanone	4.50	43	4348	3.70	ug/l	# 85
29) Tetrahydrofuran	4.24	42	2833	6.58	ug/l	# 47
49) 1,4-Dioxane	6.81	88	193	12.41	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.39	43	4566	2.39	ug/l	# 86
58) 2-Chloroethyl Vinyl ether	7.80	63	442	1.95	ug/l	100
59) 2-Hexanone	9.61	43	6288	4.62	ug/l	82
78) n-propylbenzene	11.67	91	1989	Below Cal		82
85) sec-Butylbenzene	12.38	105	1847	Below Cal		97
86) p-Isopropyltoluene	12.53	119	1710	Below Cal	#	61
89) n-Butylbenzene	12.91	91	2138	Below Cal		94

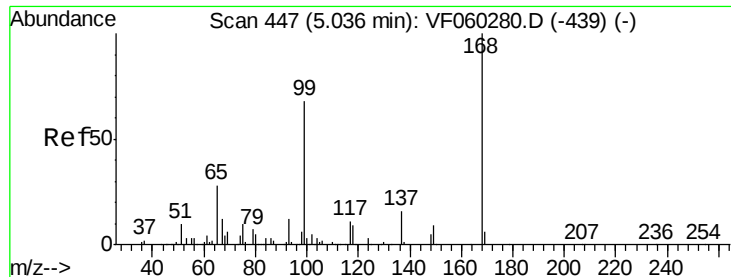
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
Quant Title : SW846 8260
QLast Update : Thu Sep 20 02:58:42 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.03 min Scan# 446

Delta R.T. -0.01 min

Lab File: VF060302.D

Acq: 20 Sep 2018 17:31

Instrument :

MSVOA_F

ClientSampleId :

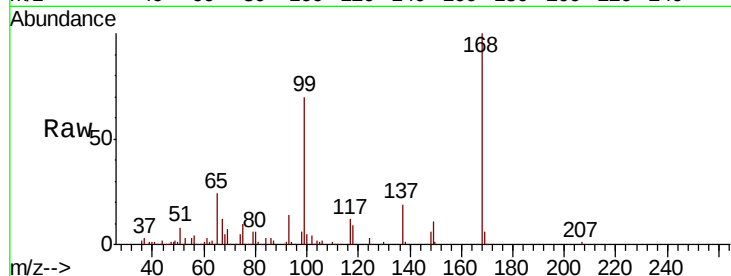
LS-SOIL-B

Tot Ion:168 Resp: 230184

Ion Ratio Lower Upper

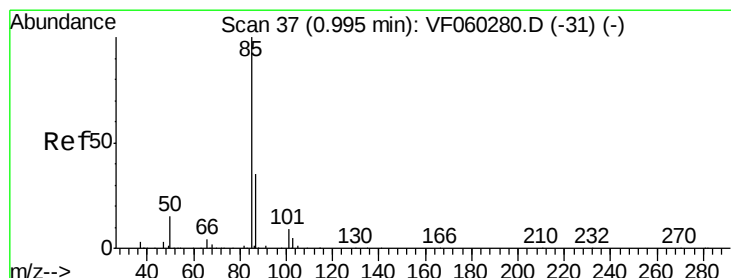
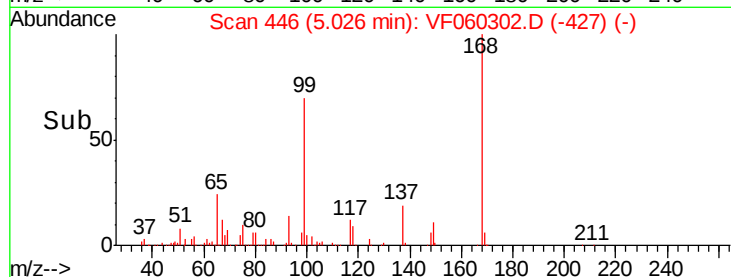
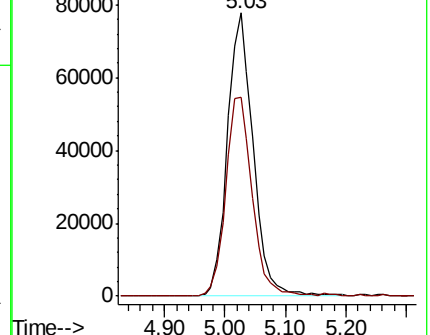
168 100

99 70.2 54.8 82.2



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 37

Delta R.T. -0.00 min

Lab File: VF060302.D

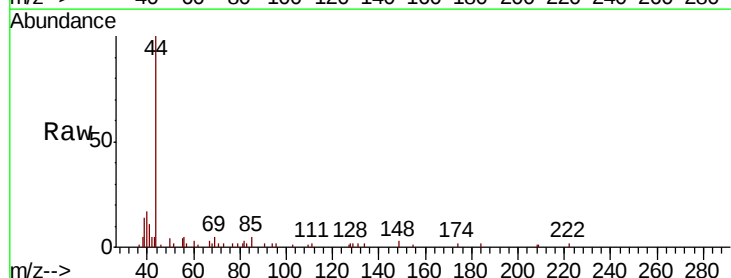
Acq: 20 Sep 2018 17:31

Tgt Ion: 85 Resp: 795

Ion Ratio Lower Upper

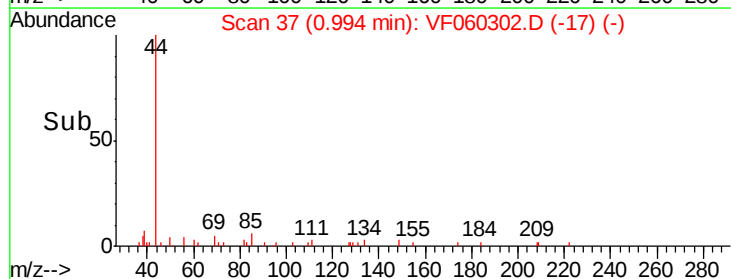
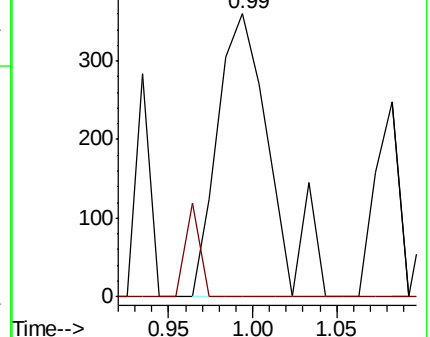
85 100

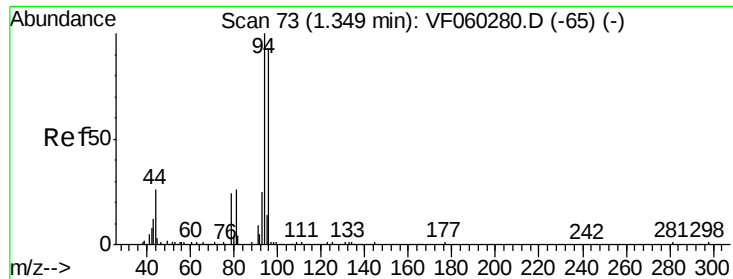
87 0.0 17.3 52.0#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#5

Bromomethane

Concen: Below Cal

RT: 1.39 min Scan# 77

Delta R.T. 0.04 min

Lab File: VF060302.D

Acq: 20 Sep 2018 17:31

Instrument :

MSVOA_F

ClientSampleID :

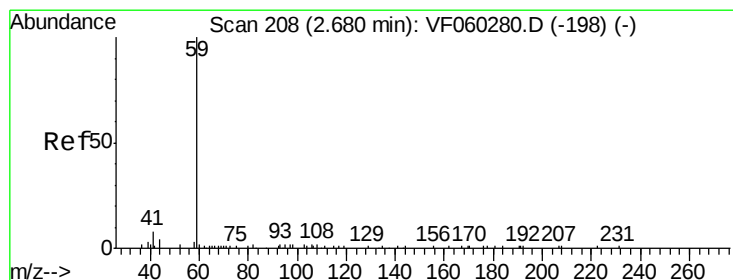
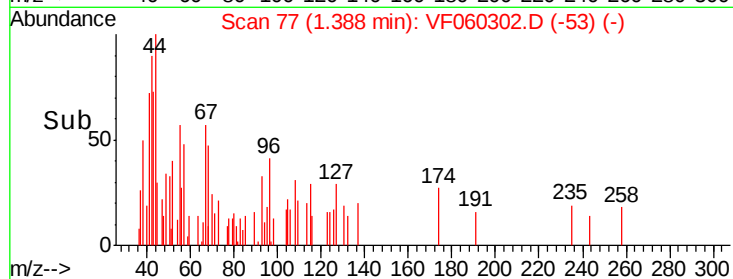
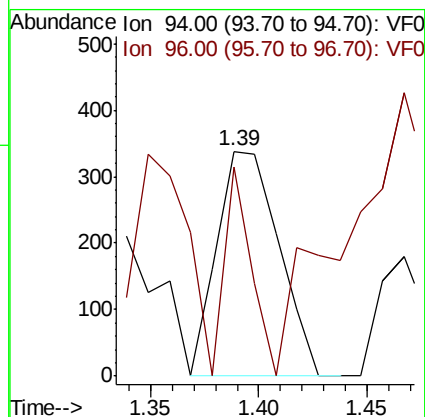
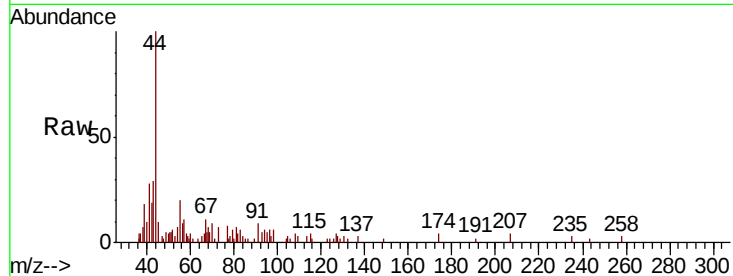
LS-SOIL-B

Tot Ion: 94 Resp: 677

Ion Ratio Lower Upper

94 100

96 93.2 73.9 110.9



#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.69 min Scan# 209

Delta R.T. 0.01 min

Lab File: VF060302.D

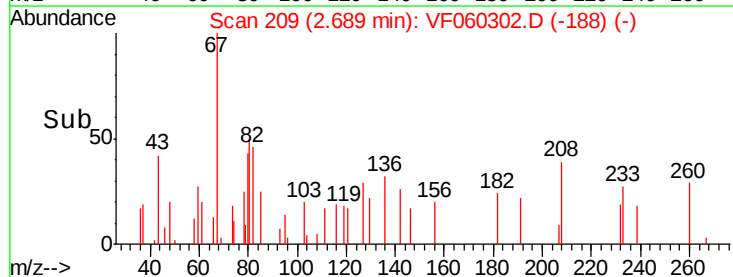
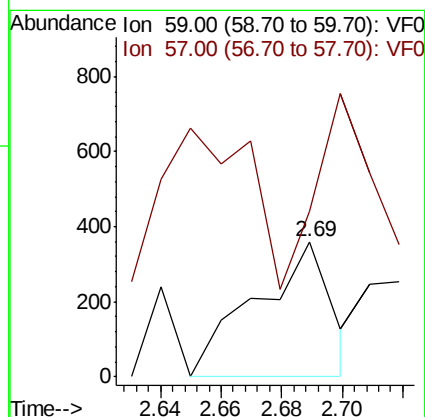
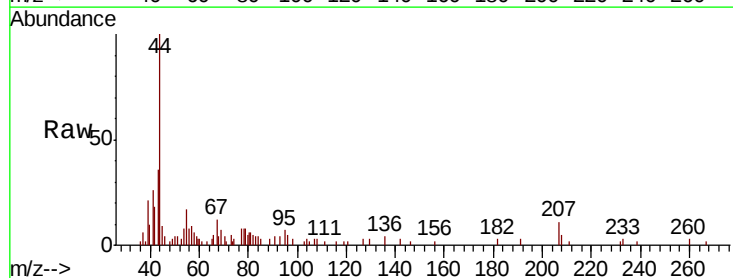
Acq: 20 Sep 2018 17:31

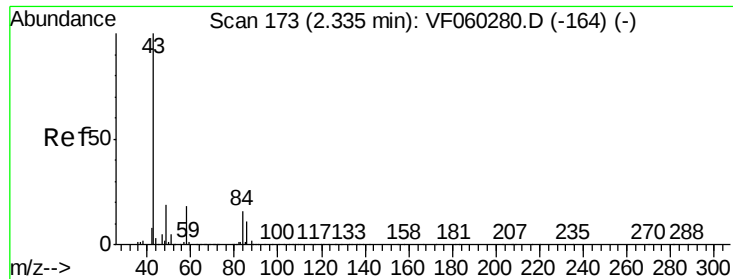
Tgt Ion: 59 Resp: 623

Ion Ratio Lower Upper

59 100

57 122.2 12.4 18.6#





#16

Acetone

Concen: 24.92 ug/l

RT: 2.32 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF060302.D

Acq: 20 Sep 2018 17:31

Instrument :

MSVOA_F

ClientSampleId :

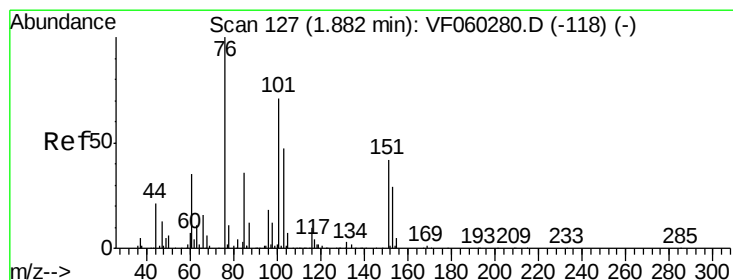
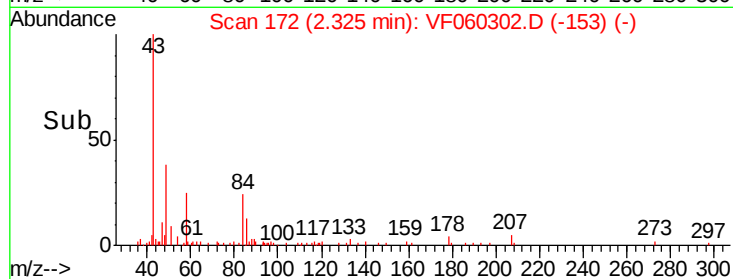
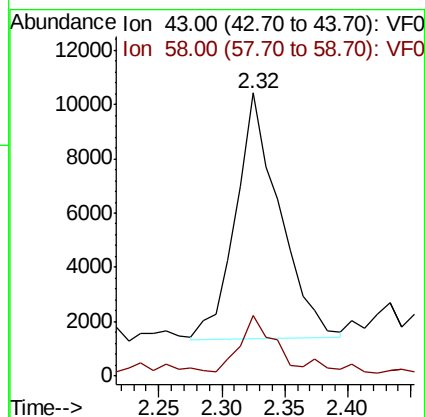
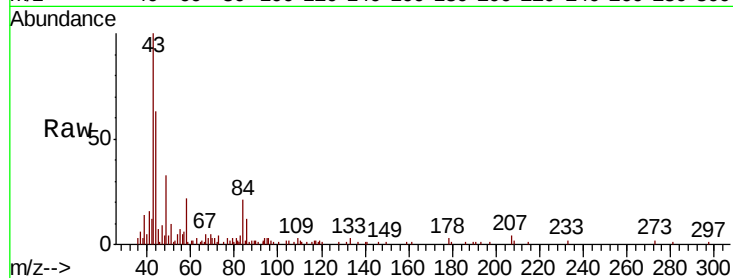
LS-SOIL-B

Tot Ion: 43 Resp: 21752

Ion Ratio Lower Upper

43 100

58 21.6 14.5 21.7



#17

Carbon Disulfide

Concen: Below Cal

RT: 1.88 min Scan# 127

Delta R.T. 0.00 min

Lab File: VF060302.D

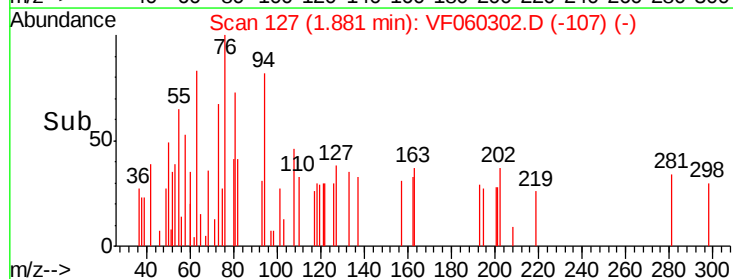
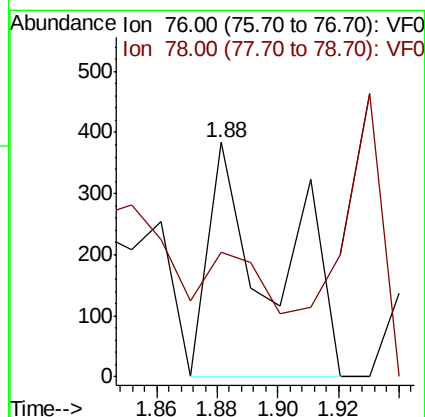
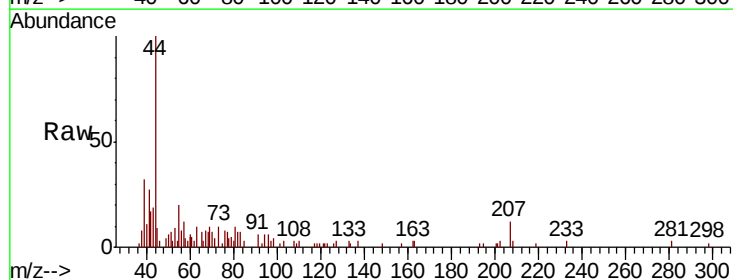
Acq: 20 Sep 2018 17:31

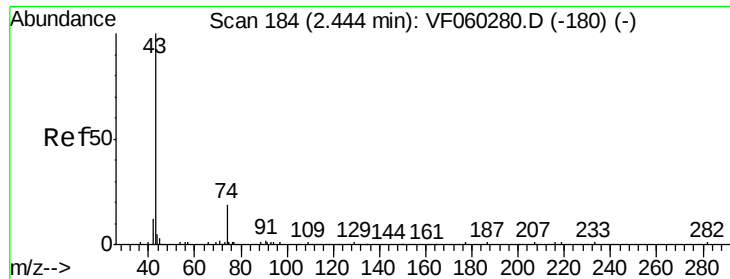
Tgt Ion: 76 Resp: 572

Ion Ratio Lower Upper

76 100

78 53.4 9.4 14.0#

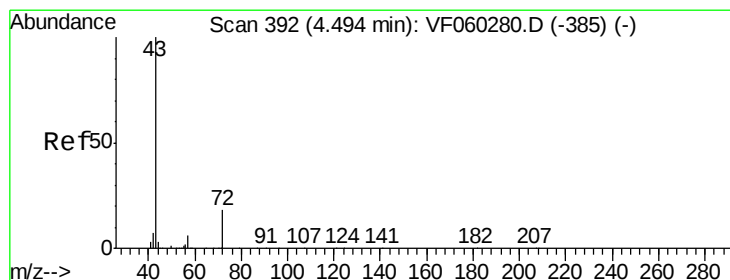
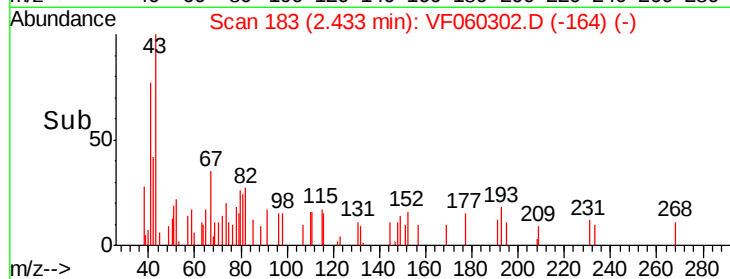
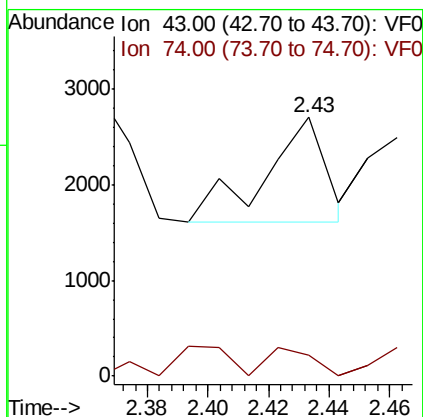
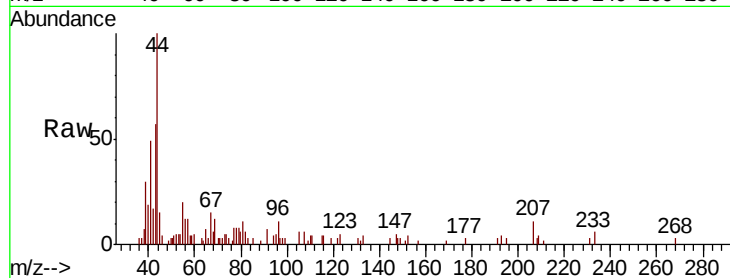




#18
Methyl Acetate
Concen: 1.03 ug/l
RT: 2.43 min Scan# 183
Delta R.T. -0.01 min
Lab File: VF060302.D
Acq: 20 Sep 2018 17:31

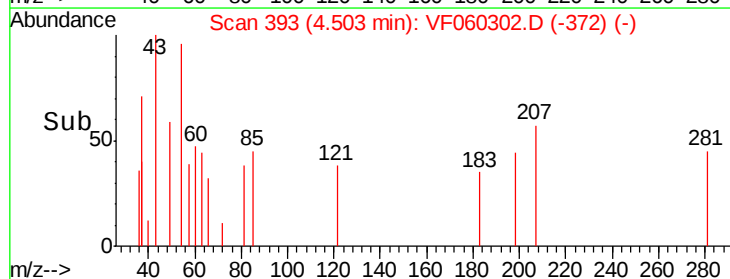
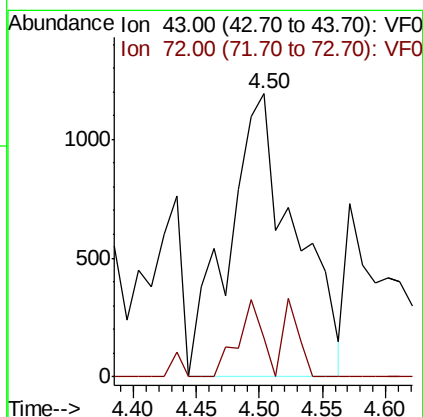
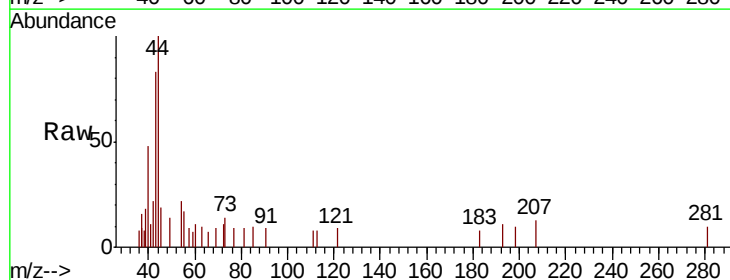
Instrument :
MSVOA_F
ClientSampled :
LS-SOIL-B

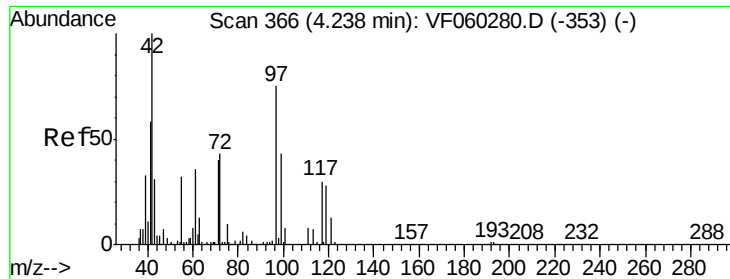
Tot Ion: 43 Resp: 1493
Ion Ratio Lower Upper
43 100
74 8.2 12.7 19.1#



#25
2-Butanone
Concen: 3.70 ug/l
RT: 4.50 min Scan# 393
Delta R.T. 0.01 min
Lab File: VF060302.D
Acq: 20 Sep 2018 17:31

Tgt Ion: 43 Resp: 4348
Ion Ratio Lower Upper
43 100
72 13.5 16.2 24.2#

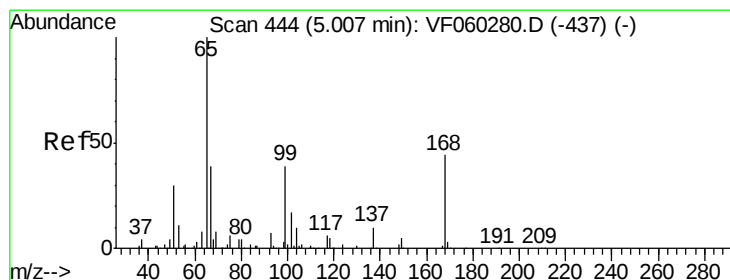
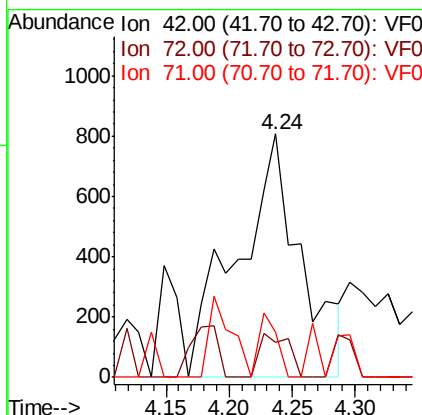
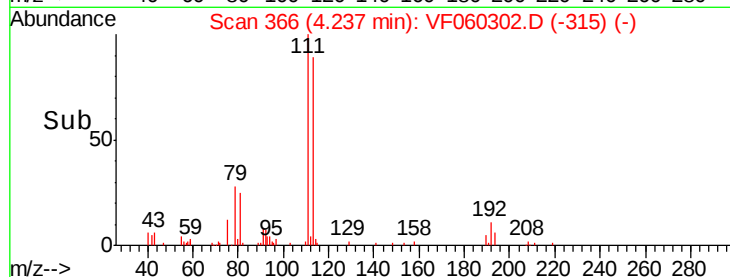
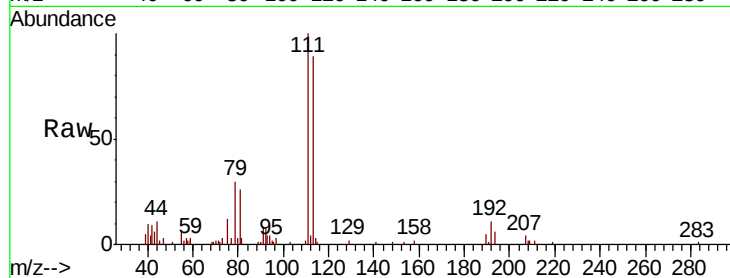




#29
Tetrahydrofuran
Concen: 6.58 ug/l
RT: 4.24 min Scan# 366
Delta R.T. -0.00 min
Lab File: VF060302.D
Acq: 20 Sep 2018 17:31

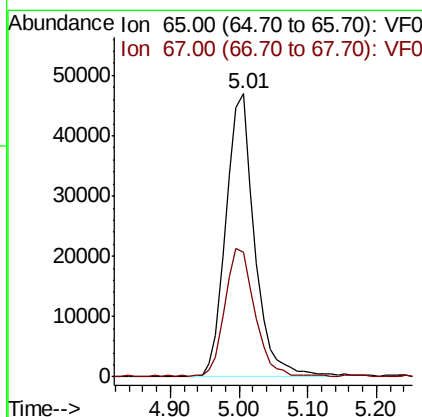
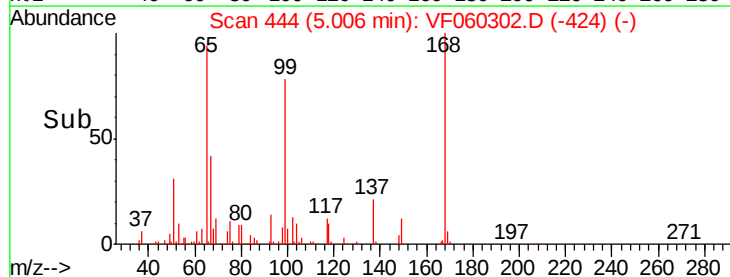
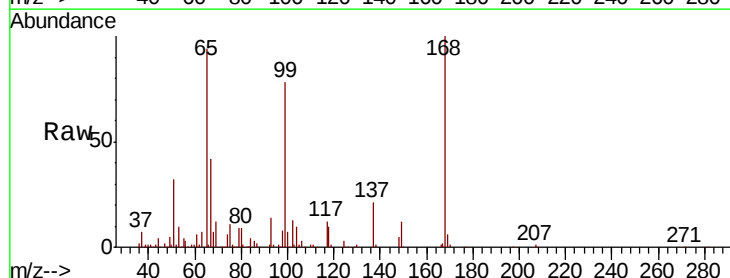
Instrument :
MSVOA_F
ClientSampled :
LS-SOIL-B

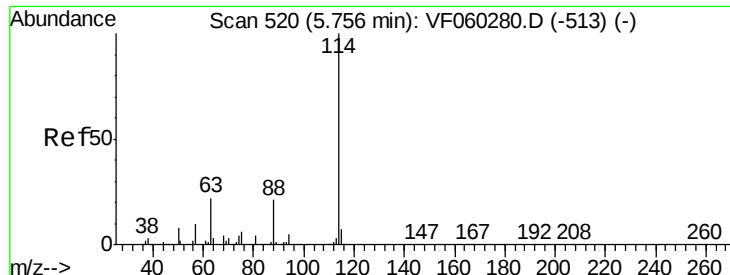
Tot Ion	Ratio	Lower	Upper
42	100		
72	8.2	32.6	49.0#
71	7.6	32.7	49.1#



#33
1,2-Dichloroethane-d4
Concen: 43.85 ug/l
RT: 5.01 min Scan# 444
Delta R.T. -0.00 min
Lab File: VF060302.D
Acq: 20 Sep 2018 17:31

Tgt Ion	Ratio	Lower	Upper
65	100		
67	44.2	0.0	94.4

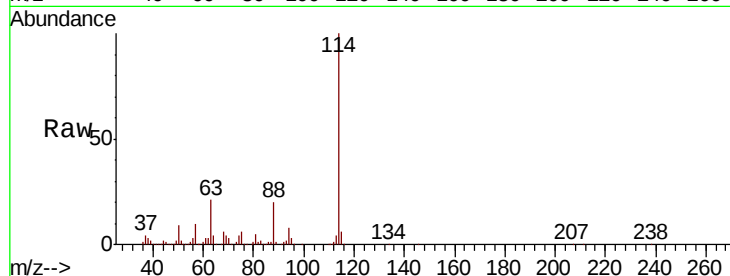




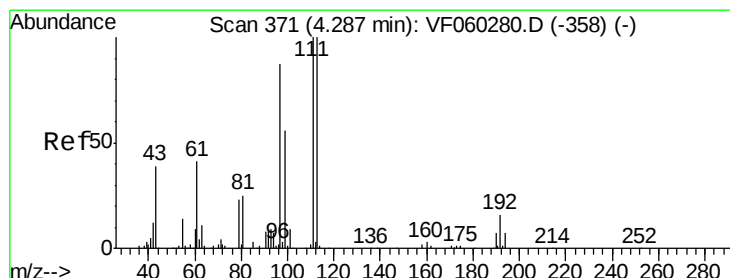
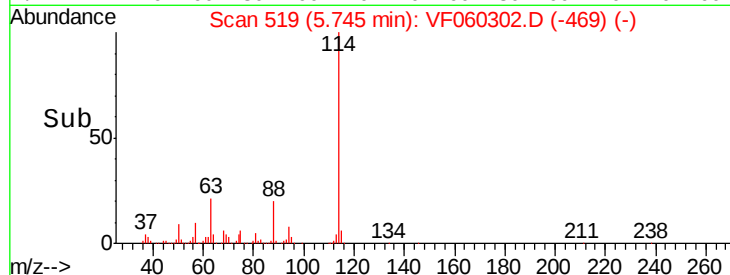
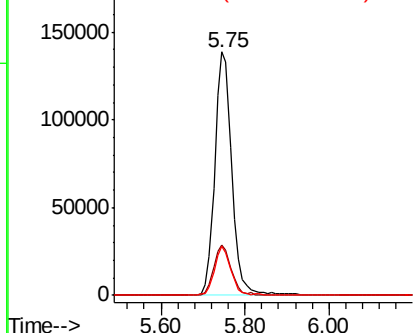
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.75 min Scan# 519
 Delta R.T. -0.01 min
 Lab File: VF060302.D
 Acq: 20 Sep 2018 17:31

Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-B

Tot Ion:114 Resp: 390382
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 43.8
 88 20.2 0.0 41.2

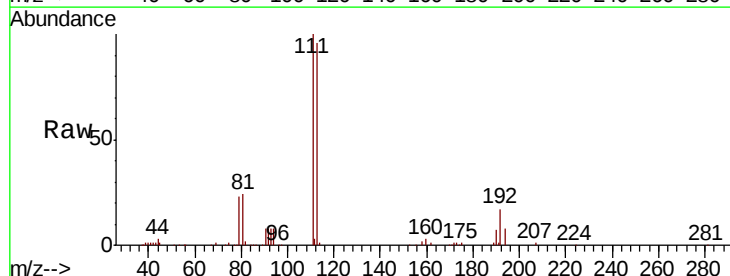


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

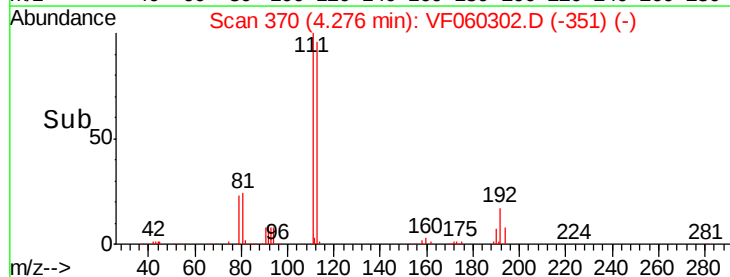
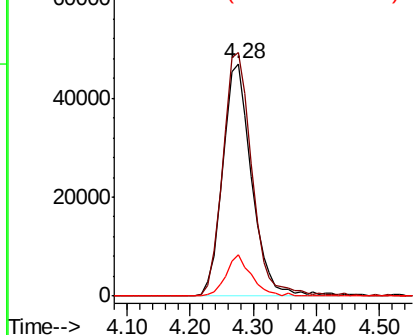


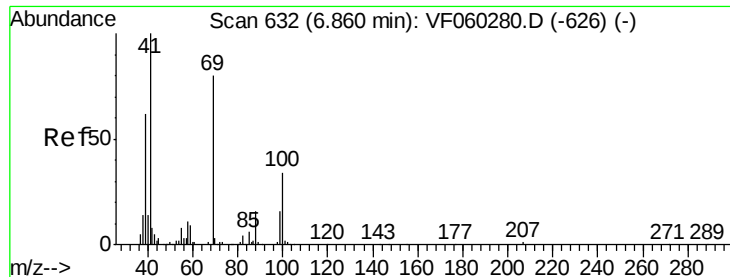
#35
 Dibromofluoromethane
 Concen: 43.08 ug/l
 RT: 4.28 min Scan# 370
 Delta R.T. -0.01 min
 Lab File: VF060302.D
 Acq: 20 Sep 2018 17:31

Tgt Ion:113 Resp: 149923
 Ion Ratio Lower Upper
 113 100
 111 104.7 79.6 119.4
 192 18.0 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





#49

1,4-Dioxane

Concen: 12.41 ug/l

RT: 6.81 min Scan# 627

Delta R.T. -0.05 min

Lab File: VF060302.D

Acq: 20 Sep 2018 17:31

Instrument :

MSVOA_F

ClientSampleId :

LS-SOIL-B

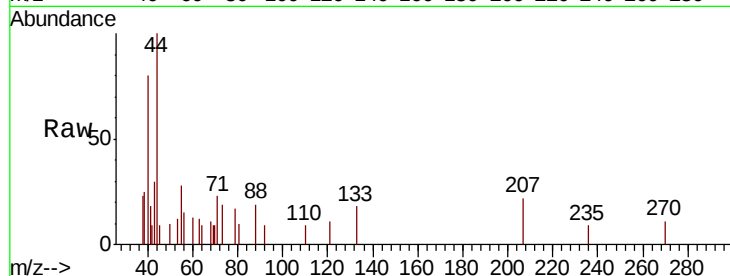
Tot Ion: 88 Resp: 193

Ion Ratio Lower Upper

88 100

43 162.8 40.2 60.4#

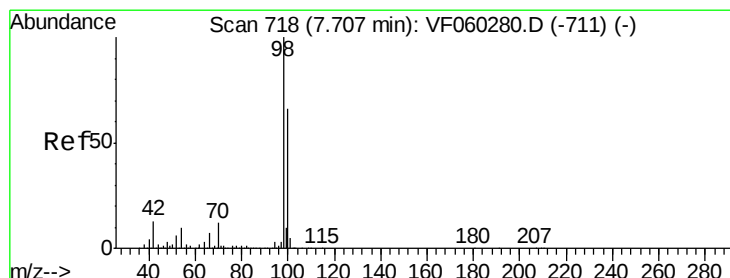
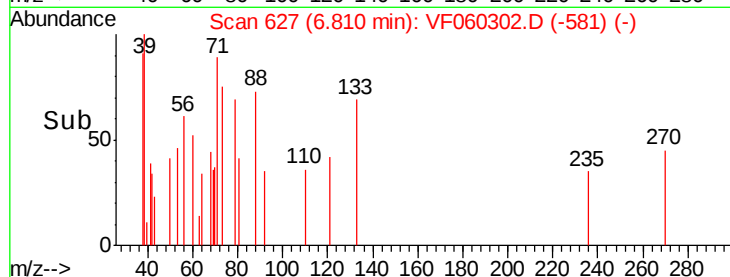
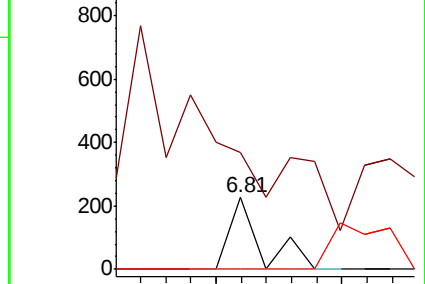
58 0.0 56.7 85.1#



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: 37.15 ug/l

RT: 7.69 min Scan# 716

Delta R.T. -0.02 min

Lab File: VF060302.D

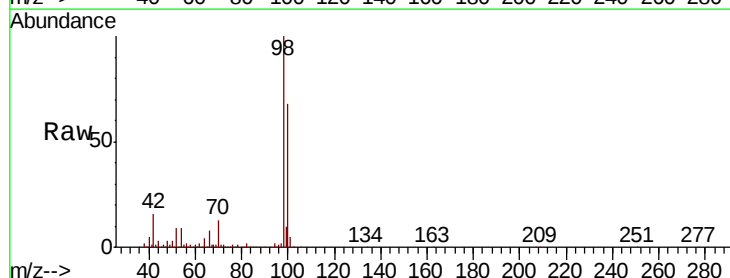
Acq: 20 Sep 2018 17:31

Tgt Ion: 98 Resp: 336644

Ion Ratio Lower Upper

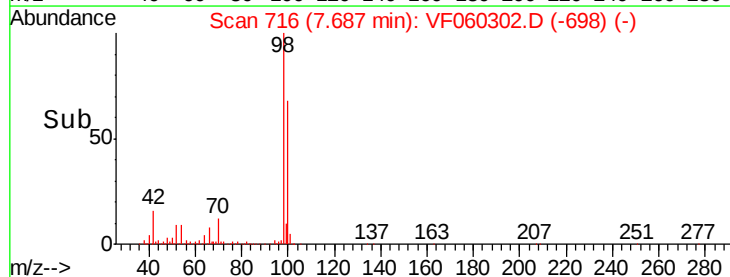
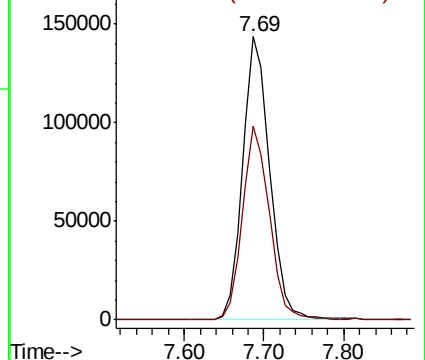
98 100

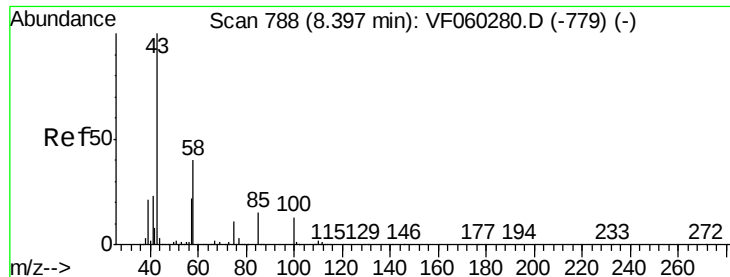
100 68.4 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.39 ug/l

RT: 8.39 min Scan# 787

Delta R.T. -0.01 min

Lab File: VF060302.D

Acq: 20 Sep 2018 17:31

Instrument :

MSVOA_F

ClientSampled :

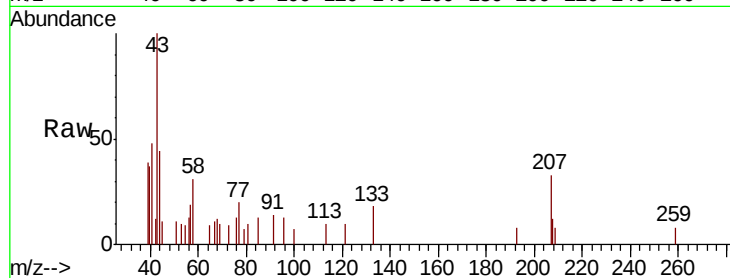
LS-SOIL-B

Tot Ion: 43 Resp: 4566

Ion Ratio Lower Upper

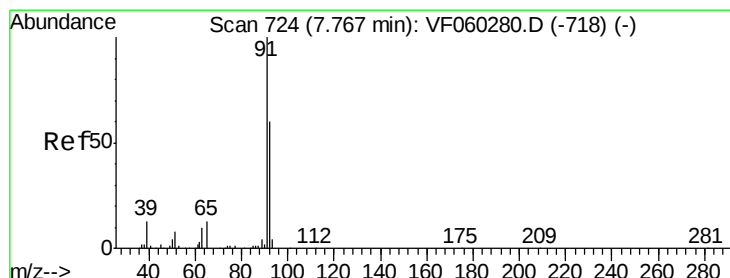
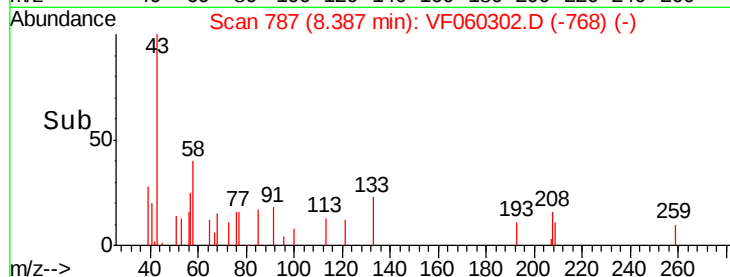
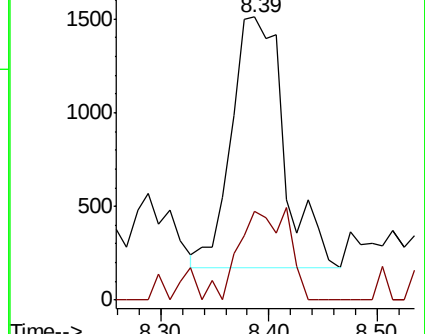
43 100

58 31.4 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#58

2-Chloroethyl Vinyl ether

Concen: 1.95 ug/l

RT: 7.80 min Scan# 727

Delta R.T. 0.03 min

Lab File: VF060302.D

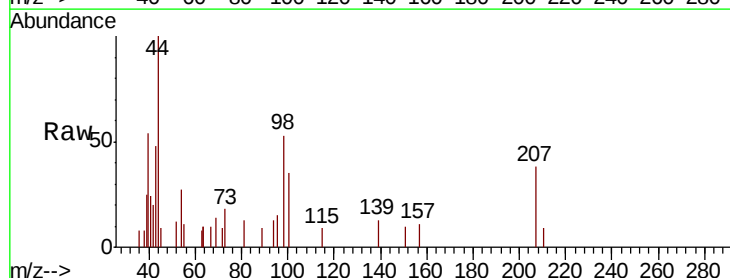
Acq: 20 Sep 2018 17:31

Tgt Ion: 63 Resp: 442

Ion Ratio Lower Upper

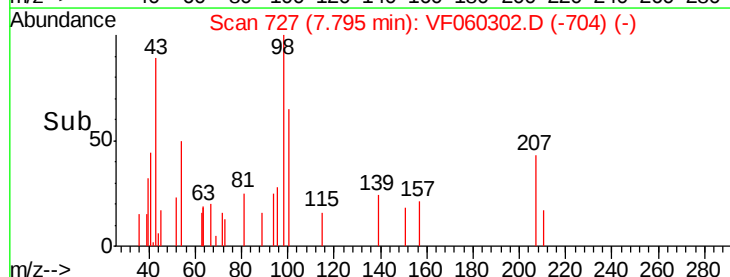
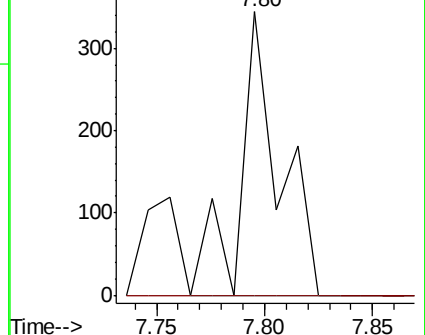
63 100

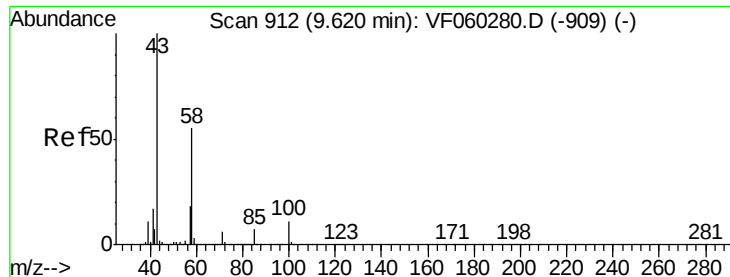
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

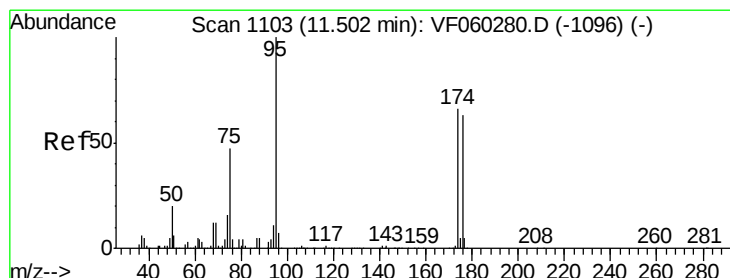
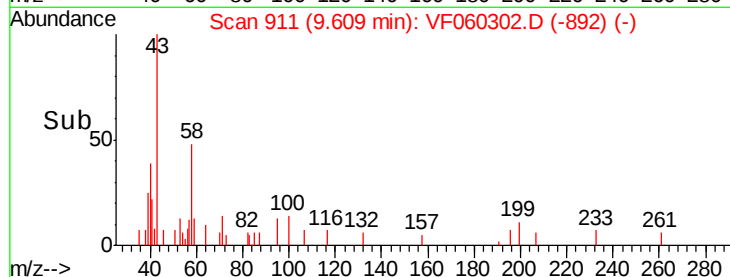
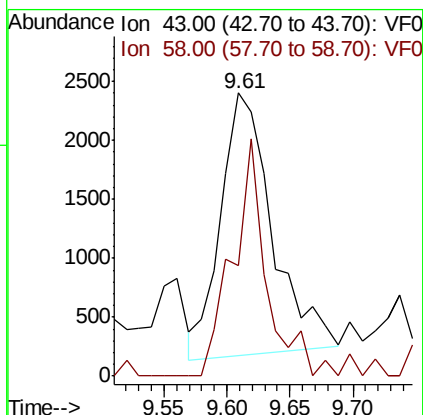
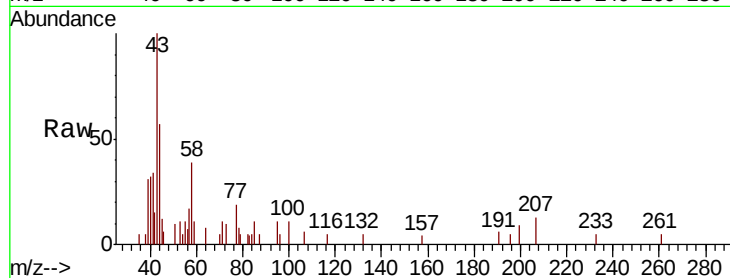




#59
2-Hexanone
Concen: 4.62 ug/l
RT: 9.61 min Scan# 911
Delta R.T. -0.01 min
Lab File: VF060302.D
Acq: 20 Sep 2018 17:31

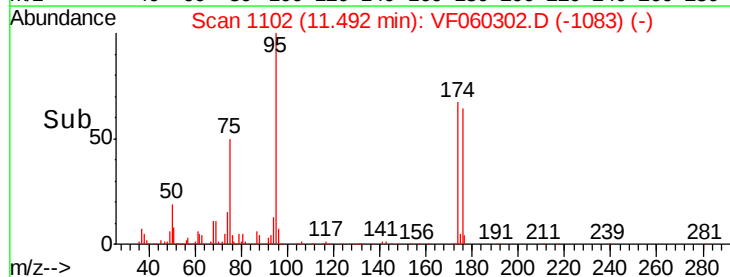
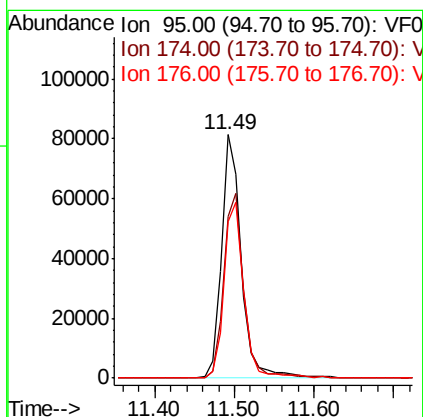
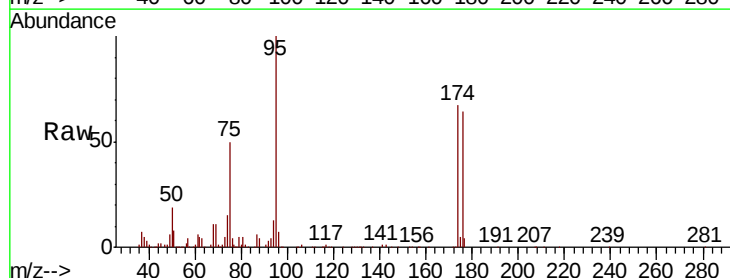
Instrument :
MSVOA_F
ClientSampleId :
LS-SOIL-B

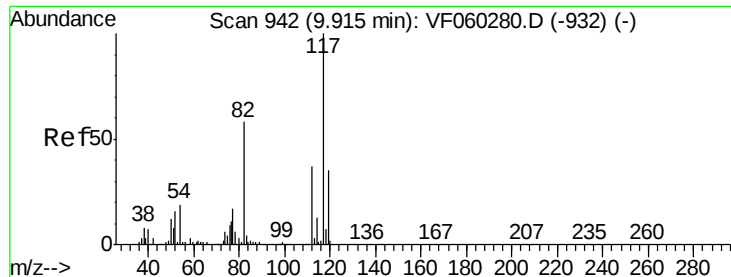
Tot Ion: 43 Resp: 6288
Ion Ratio Lower Upper
43 100
58 39.2 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 36.49 ug/l
RT: 11.49 min Scan# 1102
Delta R.T. -0.01 min
Lab File: VF060302.D
Acq: 20 Sep 2018 17:31

Tgt Ion: 95 Resp: 142934
Ion Ratio Lower Upper
95 100
174 66.6 0.0 131.2
176 64.2 0.0 126.6

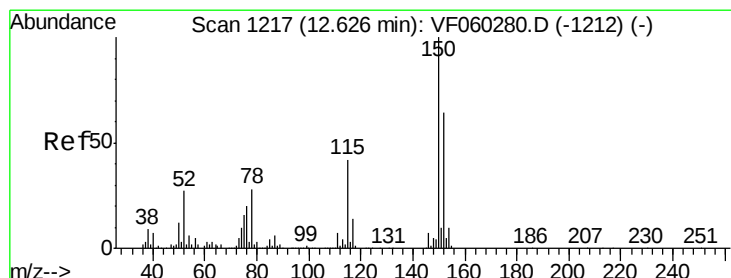
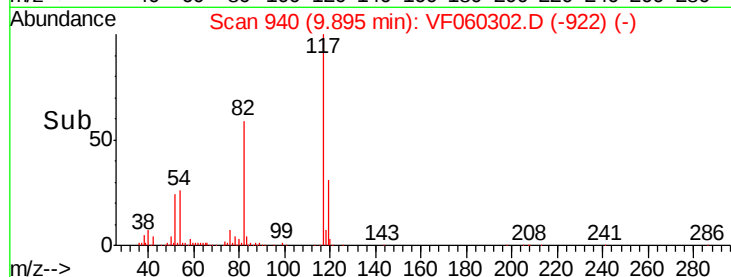
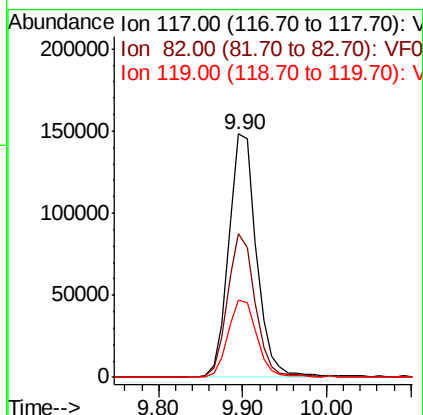
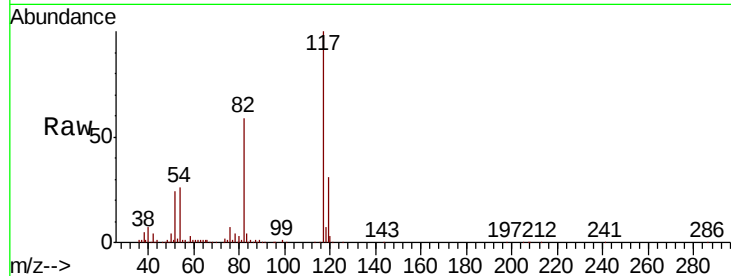




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.02 min
Lab File: VF060302.D
Acq: 20 Sep 2018 17:31

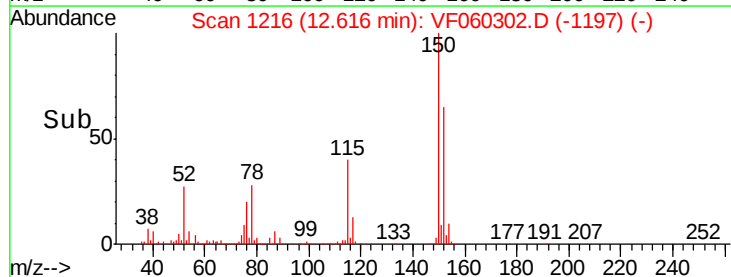
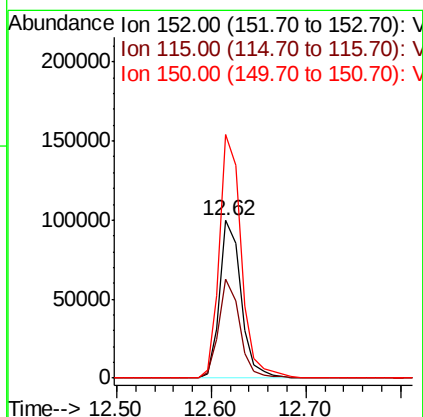
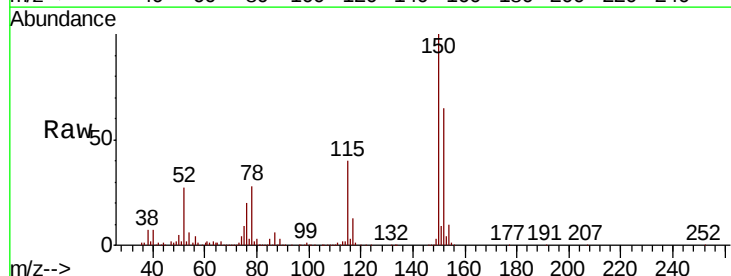
Instrument :
MSVOA_F
ClientSampleId :
LS-SOIL-B

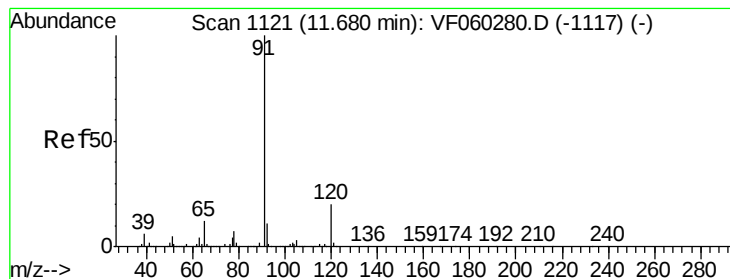
Tot Ion:117 Resp: 342534
Ion Ratio Lower Upper
117 100
82 59.0 46.2 69.2
119 31.5 27.8 41.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.62 min Scan# 1216
Delta R.T. -0.01 min
Lab File: VF060302.D
Acq: 20 Sep 2018 17:31

Tgt Ion:152 Resp: 157531
Ion Ratio Lower Upper
152 100
115 62.5 32.6 97.8
150 154.7 0.0 314.2





#78

n-propylbenzene

Concen: Below Cal

RT: 11.67 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VF060302.D

Acq: 20 Sep 2018 17:31

Instrument :

MSVOA_F

ClientSampleId :

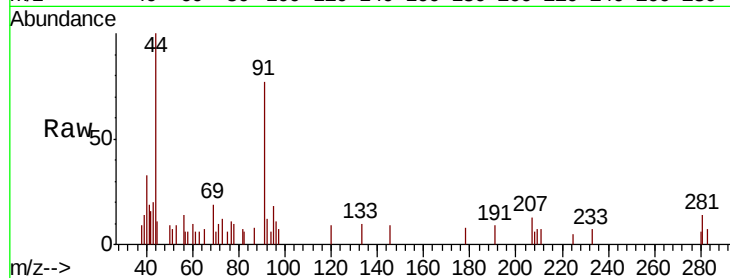
LS-SOIL-B

Tot Ion: 91 Resp: 1989

Ion Ratio Lower Upper

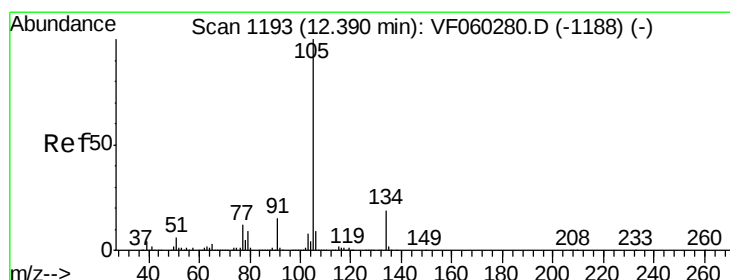
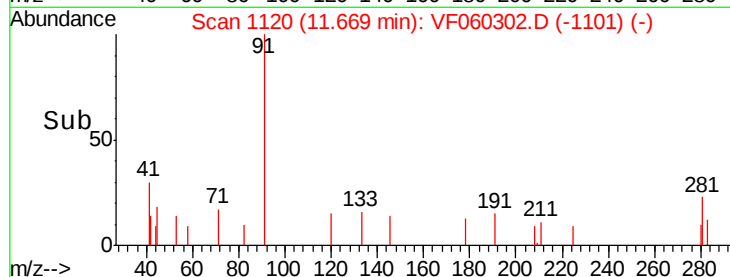
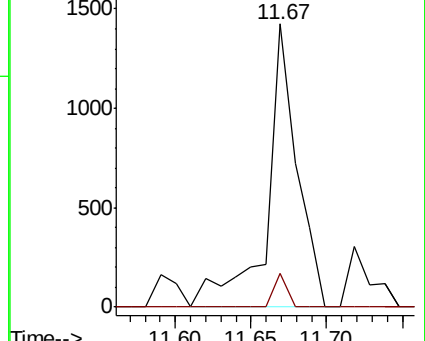
91 100

120 11.9 10.0 29.8



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.38 min Scan# 1192

Delta R.T. -0.01 min

Lab File: VF060302.D

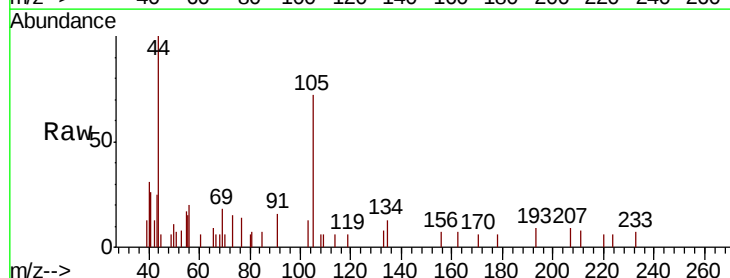
Acq: 20 Sep 2018 17:31

Tgt Ion: 105 Resp: 1847

Ion Ratio Lower Upper

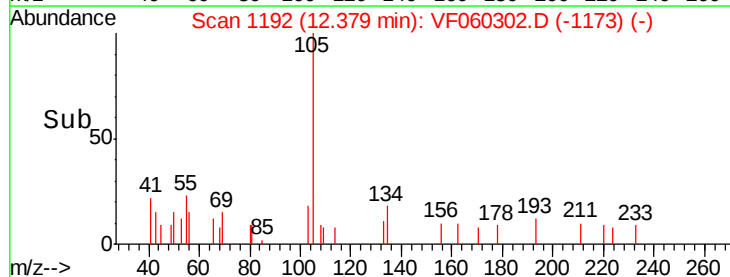
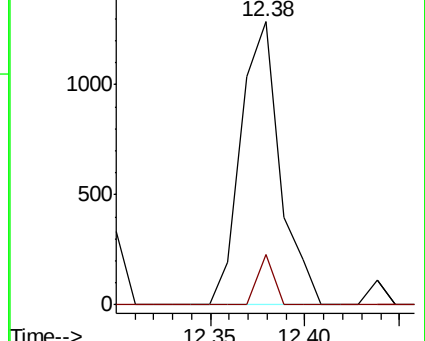
105 100

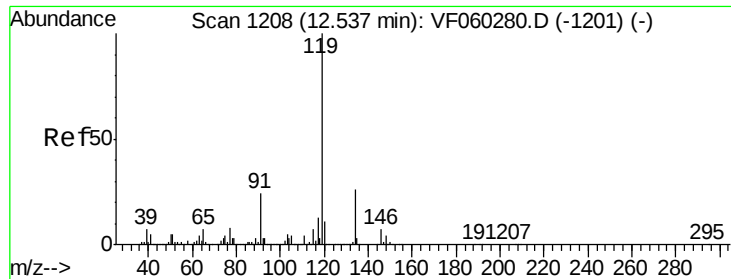
134 17.7 9.6 28.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.53 min Scan# 1207
 Delta R.T. -0.01 min
 Lab File: VF060302.D
 Acq: 20 Sep 2018 17:31

Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-B

Tot Ion	Ratio	Lower	Upper
119	100		
134	33.2	12.9	38.7
91	55.9	11.9	35.7

