

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092018\
 Data File : VF060304.D
 Acq On : 20 Sep 2018 18:25
 Operator : VA/AP
 Sample : J5021-13
 Misc : 7.12/5mL/MSVOA F/SOIL
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-D

Quant Time: Sep 21 05:23:00 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	289095	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.75	114	476293	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.90	117	380011	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	153265	50.00	ug/l	-0.01

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.00	65	151734	38.98	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	77.96%	
35) Dibromofluoromethane	4.27	113	163842	38.59	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	77.18%	
50) Toluene-d8	7.69	98	363734	32.90	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	65.80%	
62) 4-Bromofluorobenzene	11.49	95	136161	28.49	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	56.98%	

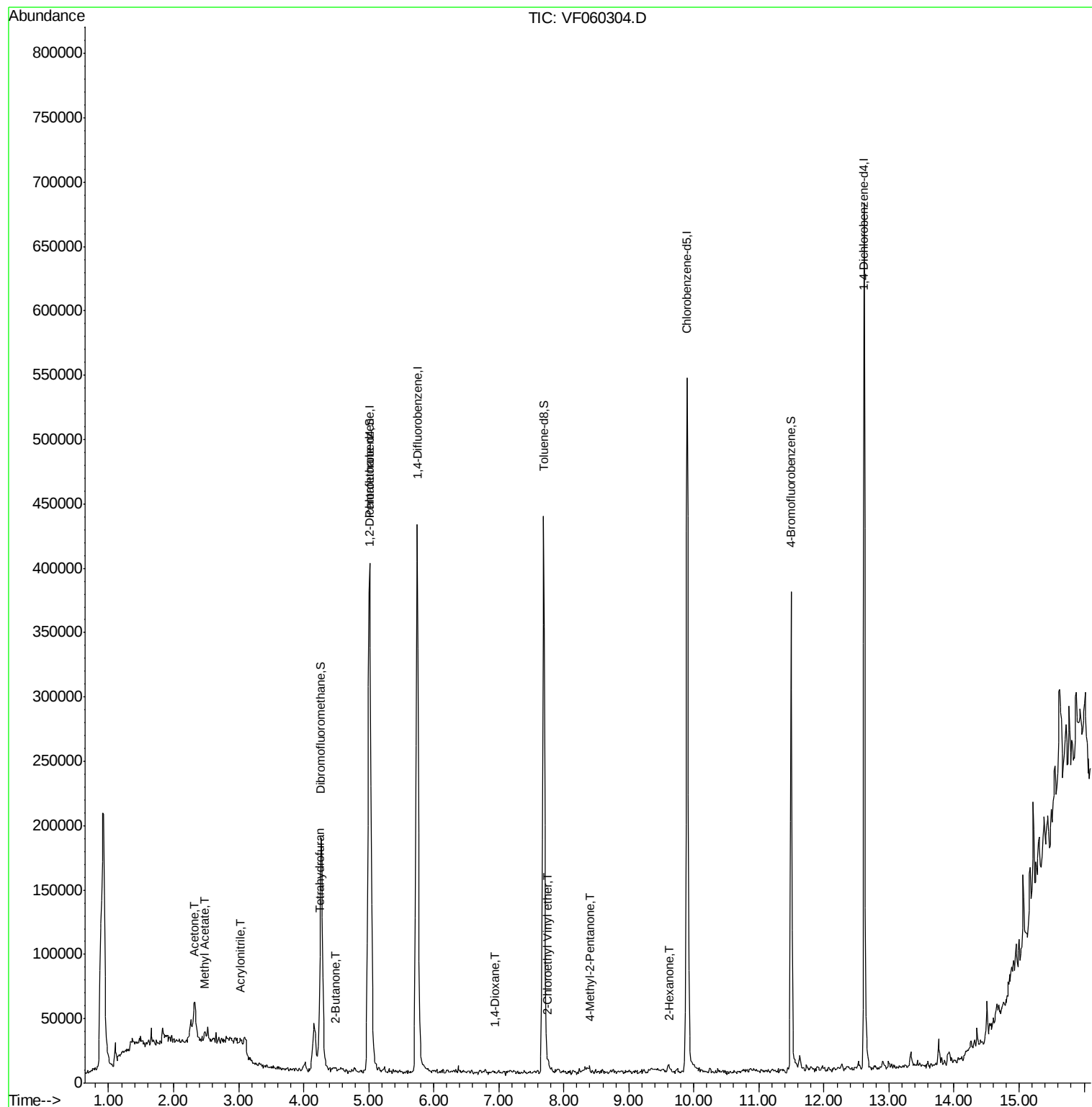
Target Compounds			Qvalue				
2) Dichlorodifluoromethane	0.99	85	355	Below Cal	#	40	
5) Bromomethane	1.47	94	463	Below Cal		90	
11) Tert butyl alcohol	2.69	59	838	Below Cal	#	1	
13) Acrolein	1.95	56	698	Below Cal		87	
15) Acrylonitrile	3.03	53	867	1.58	ug/l	#	53
16) Acetone	2.33	43	48850	44.56	ug/l		98
17) Carbon Disulfide	1.83	76	14455	Below Cal		99	
18) Methyl Acetate	2.46	43	4659	2.55	ug/l	#	76
20) Methylene Chloride	2.28	84	15874	Below Cal	#	85	
25) 2-Butanone	4.49	43	6667	4.52	ug/l		99
29) Tetrahydrofuran	4.24	42	956	1.77	ug/l	#	70
49) 1,4-Dioxane	6.95	88	64	3.37	ug/l	#	1
51) 4-Methyl-2-Pentanone	8.39	43	4117	1.77	ug/l		93
58) 2-Chloroethyl Vinyl ether	7.76	63	396	1.43	ug/l		100
59) 2-Hexanone	9.61	43	7238	4.36	ug/l		99
78) n-propylbenzene	11.67	91	2029	Below Cal		80	
85) sec-Butylbenzene	12.37	105	1755	Below Cal	#	58	
86) p-Isopropyltoluene	12.53	119	1826	Below Cal		85	
89) n-Butylbenzene	12.90	91	2914	Below Cal		80	

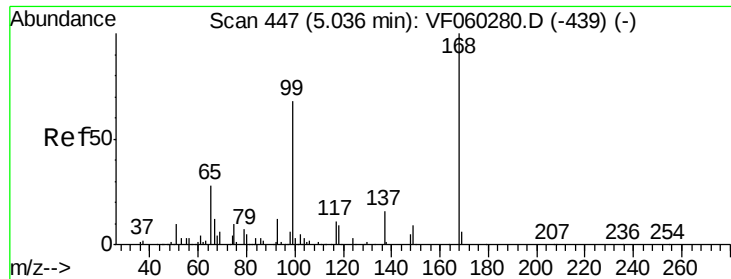
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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. -0.02 min

Lab File: VF060304.D

Acq: 20 Sep 2018 18:25

Instrument :

MSVOA_F

ClientSampleId :

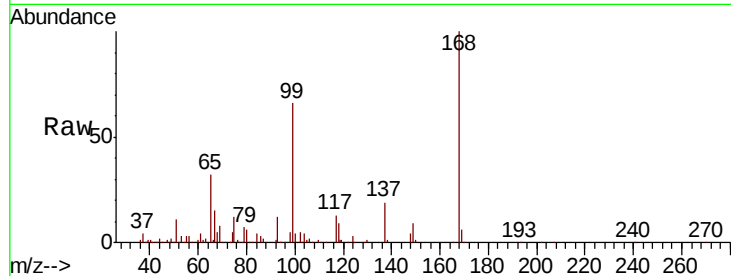
LS-SOIL-D

Tot Ion:168 Resp: 289095

Ion Ratio Lower Upper

168 100

99 66.4 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

100000

80000

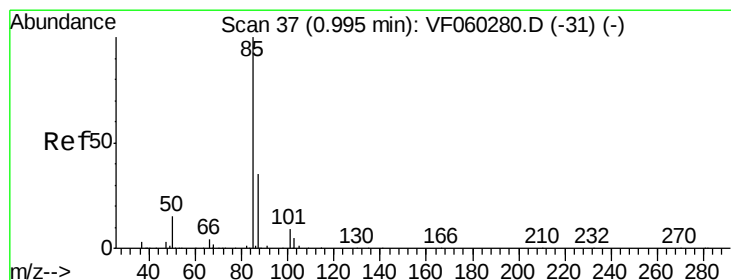
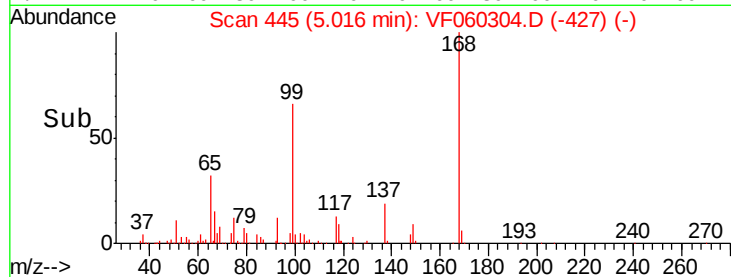
60000

40000

20000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.99 min Scan# 37

Delta R.T. 0.00 min

Lab File: VF060304.D

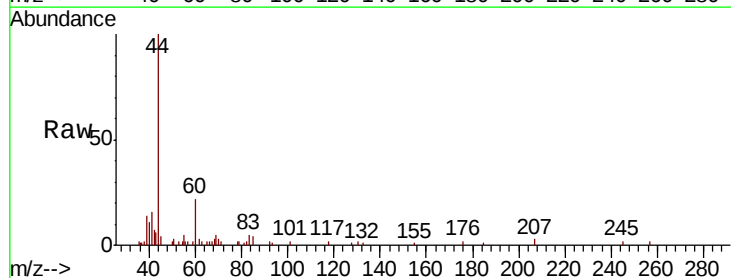
Acq: 20 Sep 2018 18:25

Tgt Ion: 85 Resp: 355

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

0.99

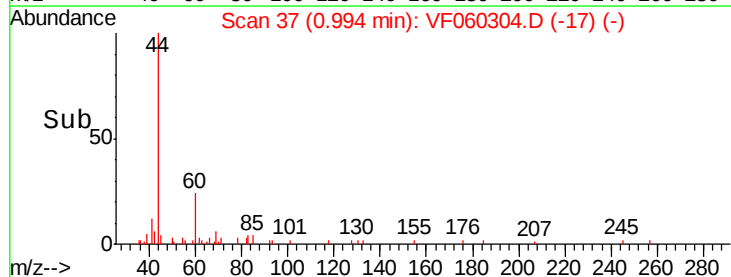
300

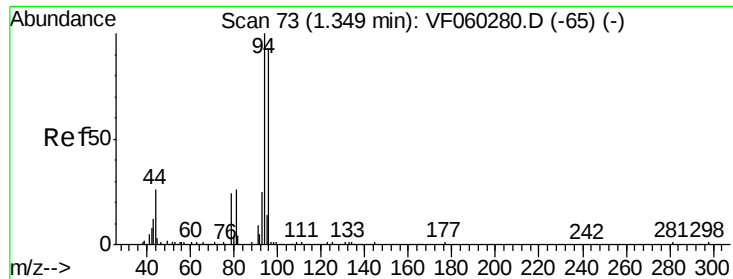
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.47 min Scan# 85

Delta R.T. 0.12 min

Lab File: VF060304.D

Acq: 20 Sep 2018 18:25

Instrument :

MSVOA_F

ClientSampleID :

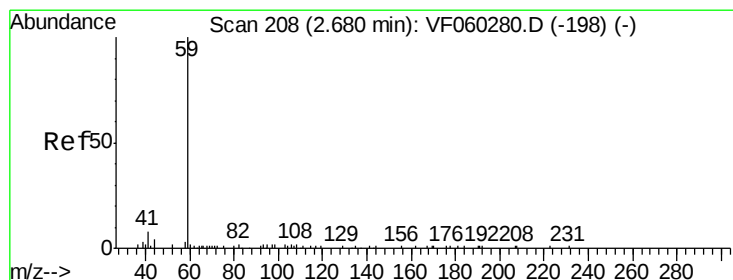
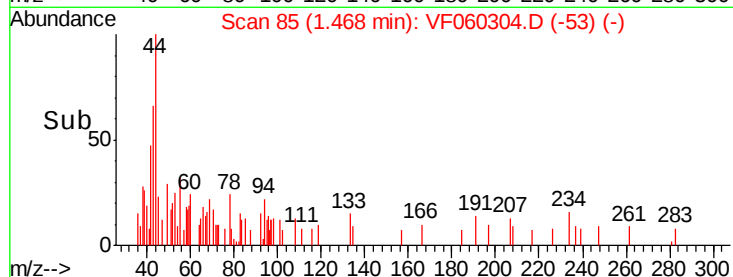
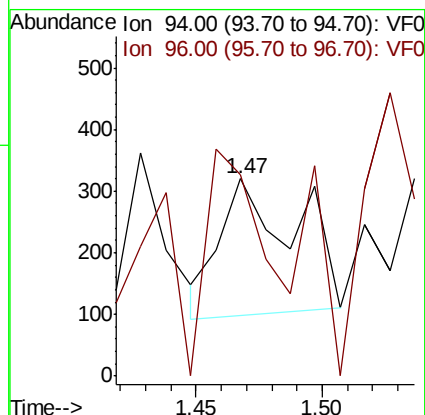
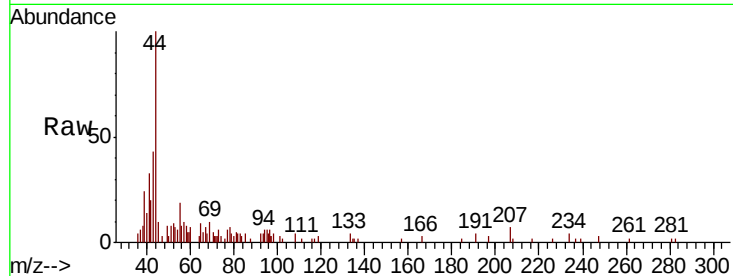
LS-SOIL-D

Tot Ion: 94 Resp: 463

Ion Ratio Lower Upper

94 100

96 102.2 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: VF060304.D

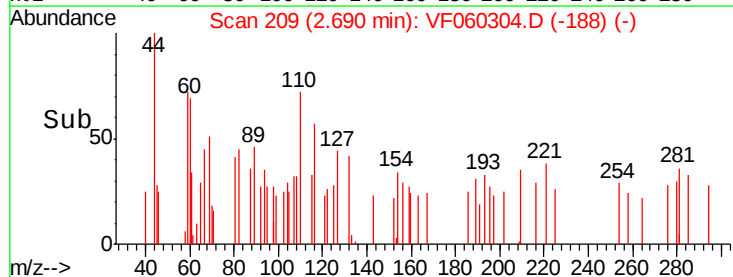
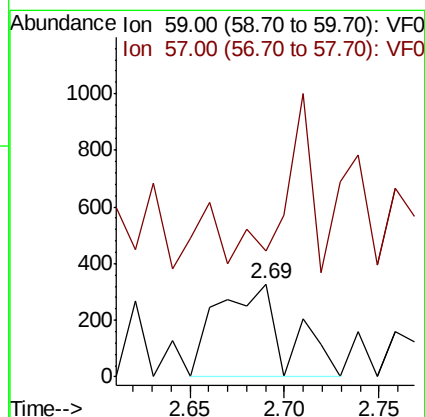
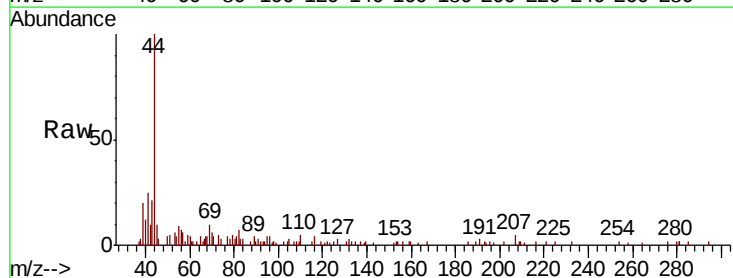
Acq: 20 Sep 2018 18:25

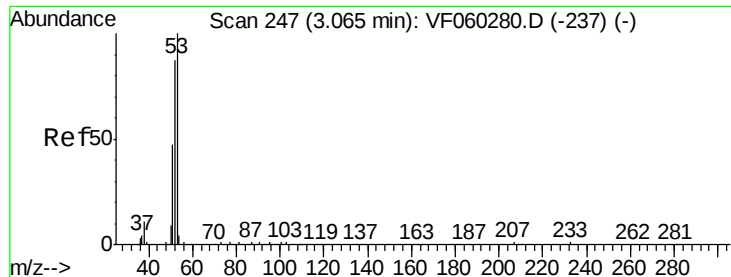
Tgt Ion: 59 Resp: 838

Ion Ratio Lower Upper

59 100

57 134.7 12.4 18.6#





#15

Acrylonitrile

Concen: 1.58 ug/l

RT: 3.03 min Scan# 243

Delta R.T. -0.04 min

Lab File: VF060304.D

Acq: 20 Sep 2018 18:25

Instrument :

MSVOA_F

ClientSampleId :

LS-SOIL-D

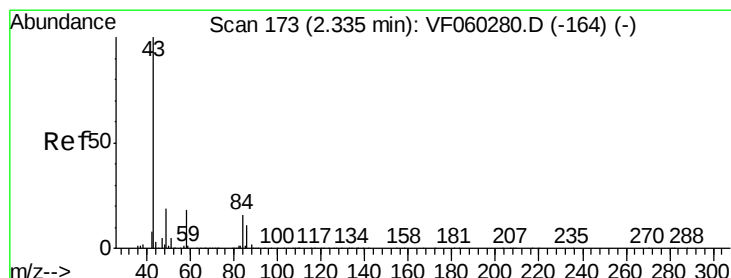
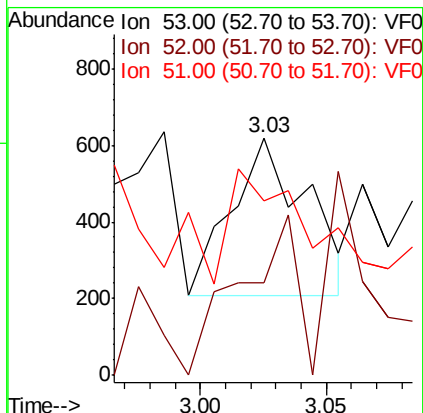
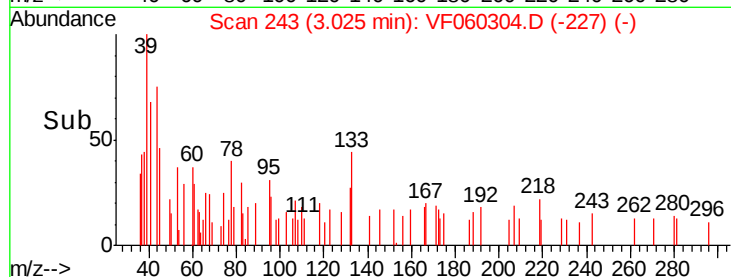
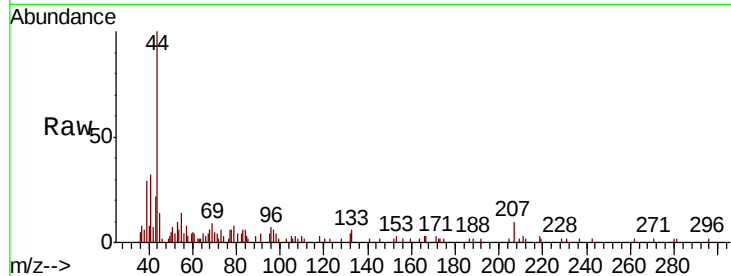
Tot Ion: 53 Resp: 867

Ion Ratio Lower Upper

53 100

52 39.1 69.5 104.3#

51 73.3 38.1 57.1#



#16

Acetone

Concen: 44.56 ug/l

RT: 2.33 min Scan# 172

Delta R.T. -0.01 min

Lab File: VF060304.D

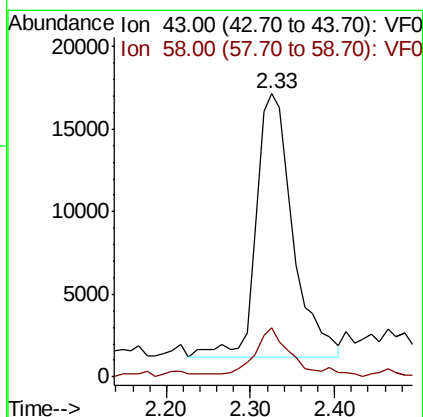
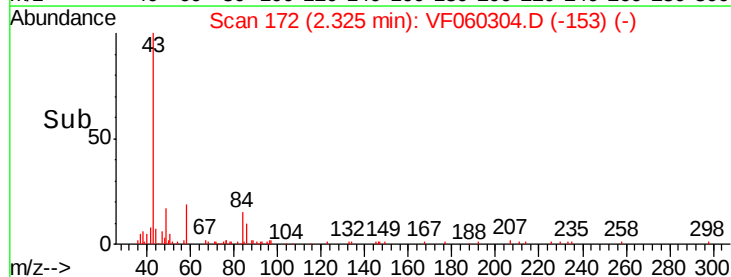
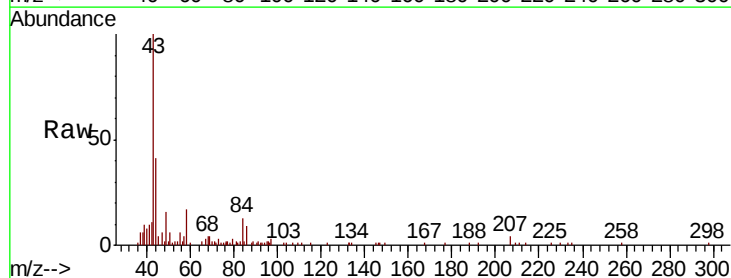
Acq: 20 Sep 2018 18:25

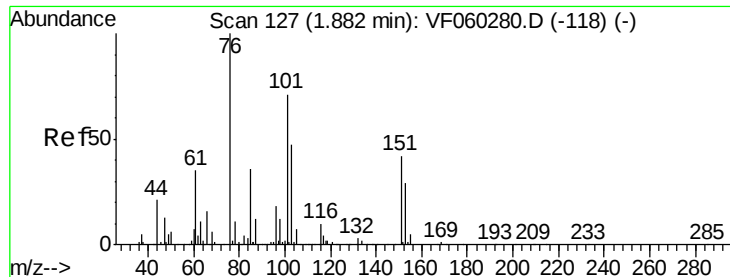
Tgt Ion: 43 Resp: 48850

Ion Ratio Lower Upper

43 100

58 17.2 14.5 21.7





#17

Carbon Disulfide

Concen: Below Cal

RT: 1.83 min Scan# 122

Delta R.T. -0.05 min

Lab File: VF060304.D

Acq: 20 Sep 2018 18:25

Instrument :

MSVOA_F

ClientSampleId :

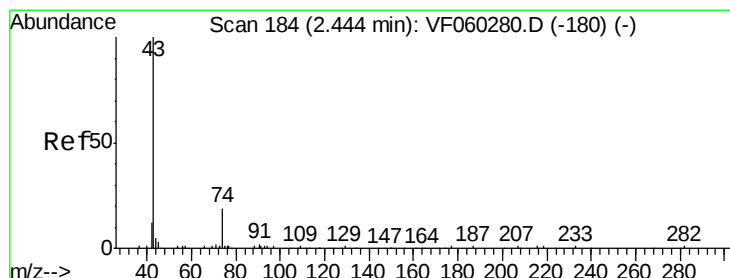
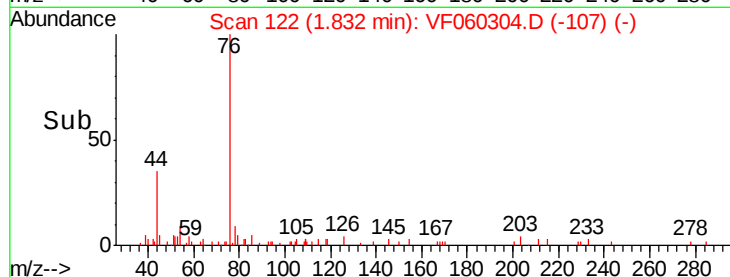
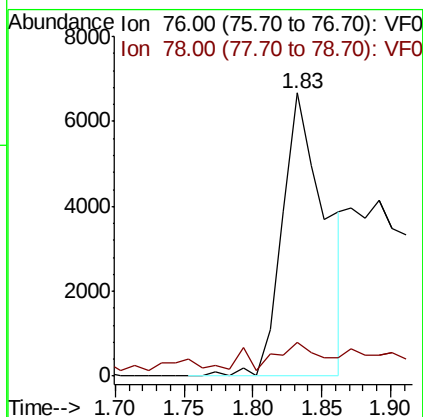
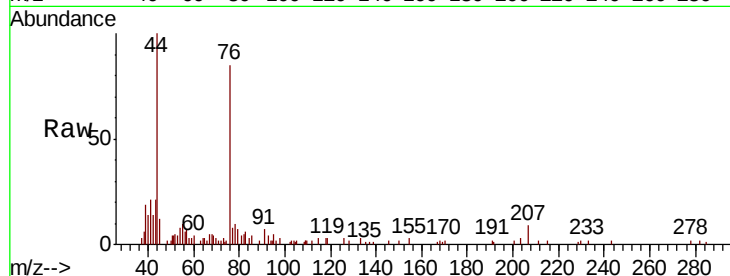
LS-SOIL-D

Tot Ion: 76 Resp: 14455

Ion Ratio Lower Upper

76 100

78 11.9 9.4 14.0



#18

Methyl Acetate

Concen: 2.55 ug/l

RT: 2.46 min Scan# 186

Delta R.T. 0.02 min

Lab File: VF060304.D

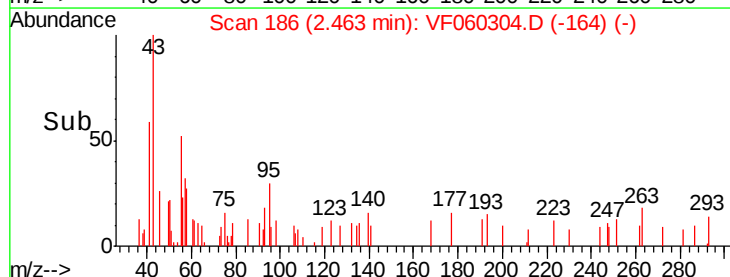
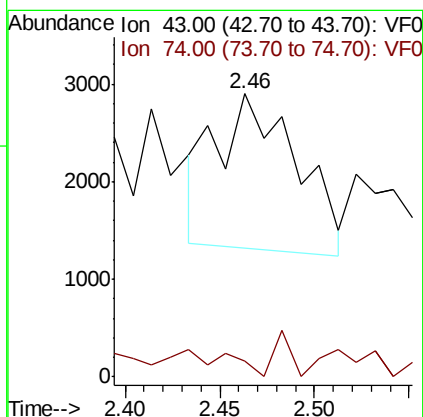
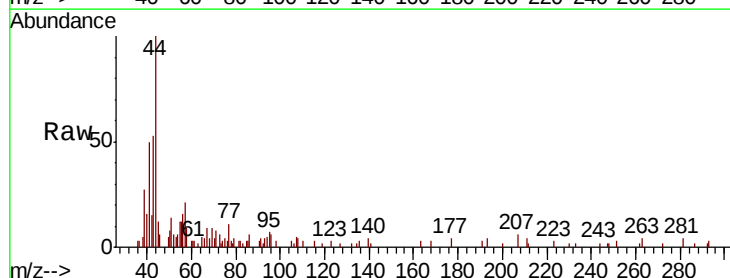
Acq: 20 Sep 2018 18:25

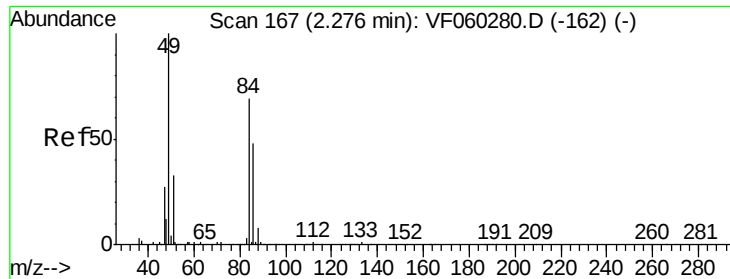
Tgt Ion: 43 Resp: 4659

Ion Ratio Lower Upper

43 100

74 5.6 12.7 19.1#

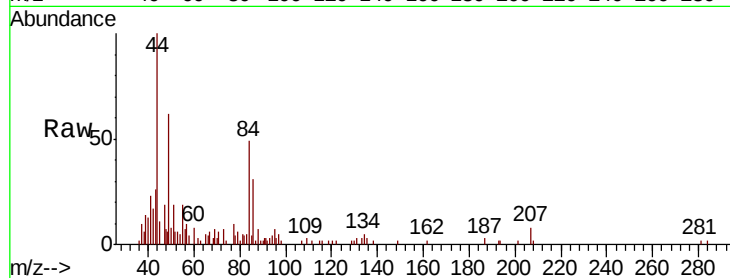




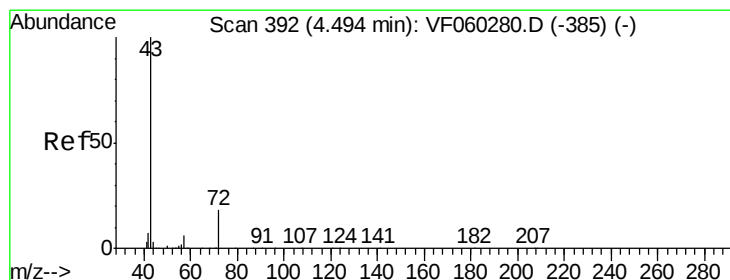
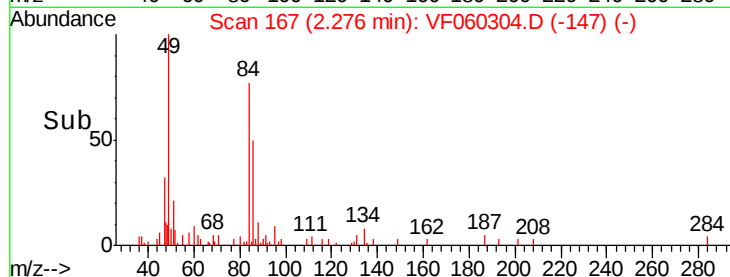
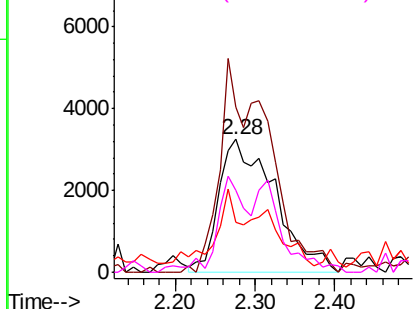
#20
Methvlene Chloride
Concen: Below Cal
RT: 2.28 min Scan# 167
Delta R.T. -0.00 min
Lab File: VF060304.D
Acq: 20 Sep 2018 18:25

Instrument :
MSVOA_F
ClientSampleId :
LS-SOIL-D

Tot Ion: 84 Resp: 15874
Ion Ratio Lower Upper
84 100
49 124.6 118.3 177.5
51 38.1 38.7 58.1#
86 62.2 55.8 83.6

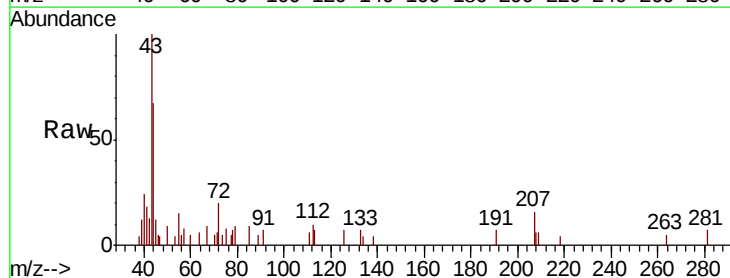


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

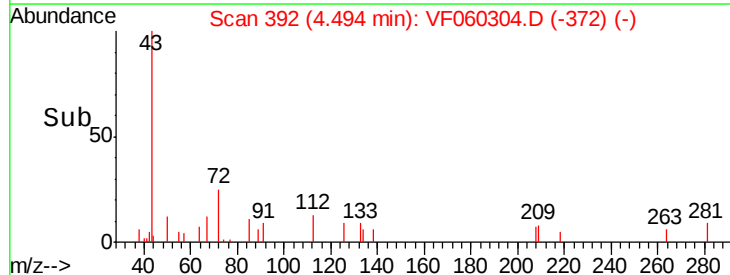
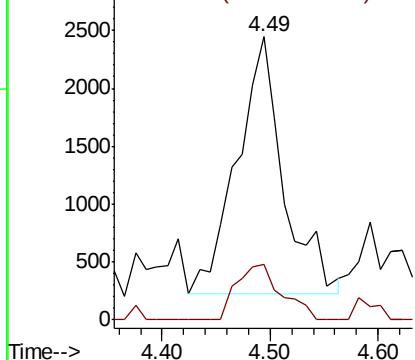


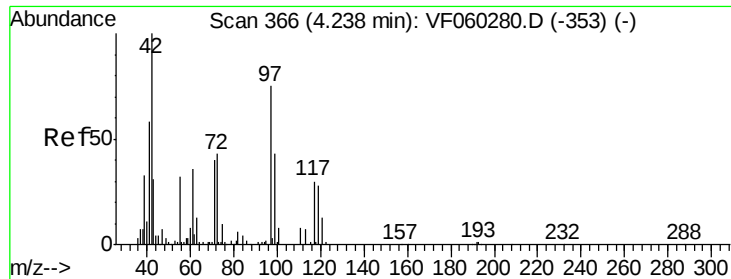
#25
2-Butanone
Concen: 4.52 ug/l
RT: 4.49 min Scan# 392
Delta R.T. -0.00 min
Lab File: VF060304.D
Acq: 20 Sep 2018 18:25

Tgt Ion: 43 Resp: 6667
Ion Ratio Lower Upper
43 100
72 19.6 16.2 24.2



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 1.77 ug/l

RT: 4.24 min Scan# 366

Delta R.T. -0.00 min

Lab File: VF060304.D

Acq: 20 Sep 2018 18:25

Instrument :

MSVOA_F

ClientSampleId :

LS-SOIL-D

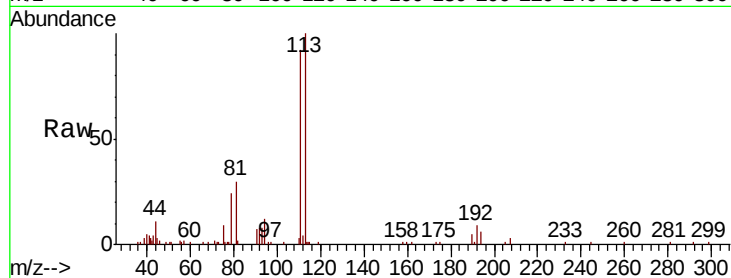
Tot Ion: 42 Resp: 956

Ion Ratio Lower Upper

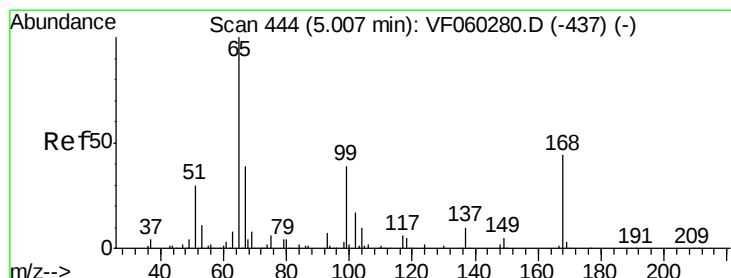
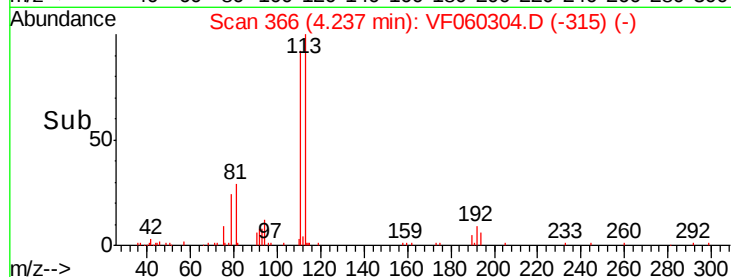
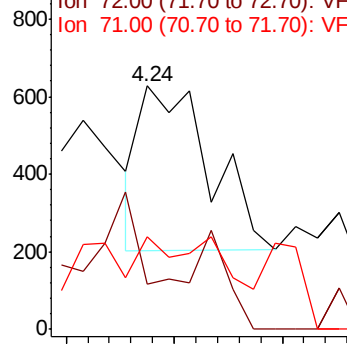
42 100

72 77.8 32.6 49.0#

71 41.8 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



#33

1,2-Dichloroethane-d4

Concen: 38.98 ug/l

RT: 5.00 min Scan# 443

Delta R.T. -0.01 min

Lab File: VF060304.D

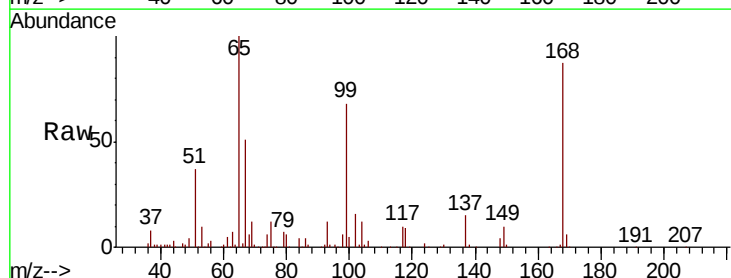
Acq: 20 Sep 2018 18:25

Tgt Ion: 65 Resp: 151734

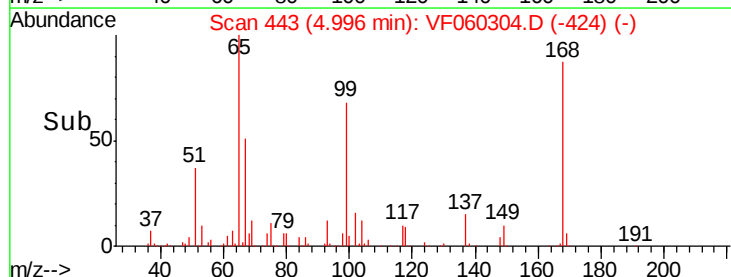
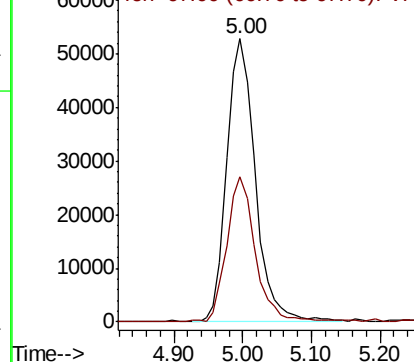
Ion Ratio Lower Upper

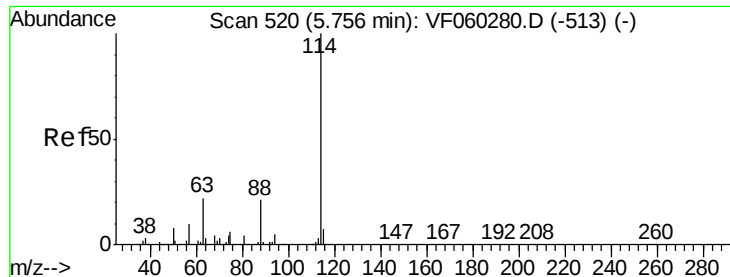
65 100

67 51.4 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: 5.75 min Scan# 519

Delta R.T. -0.01 min

Lab File: VF060304.D

Acq: 20 Sep 2018 18:25

Instrument :

MSVOA_F

ClientSampleId :

LS-SOIL-D

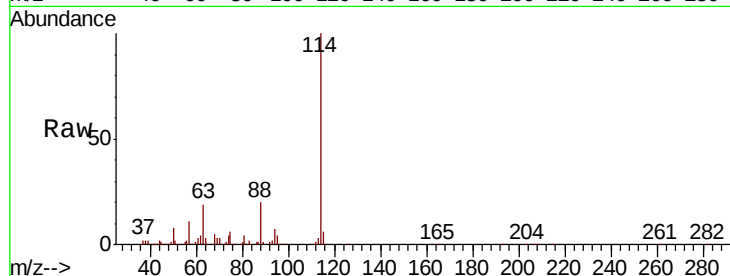
Tot Ion:114 Resp: 476293

Ion Ratio Lower Upper

114 100

63 18.7 0.0 43.8

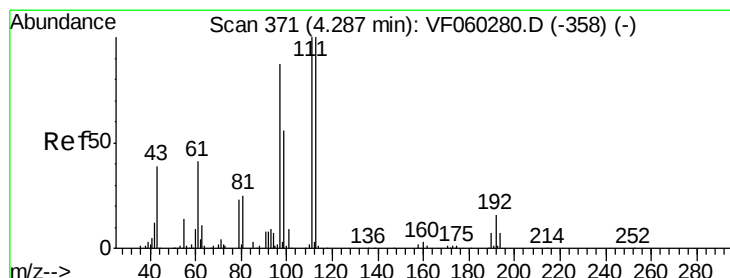
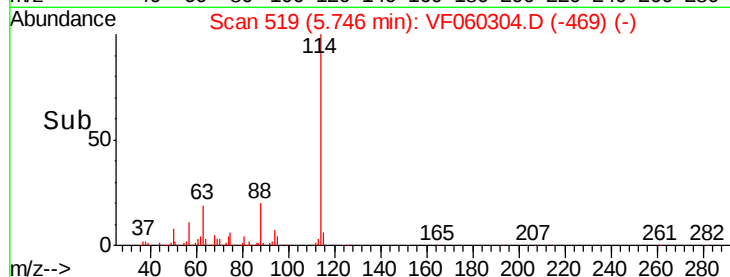
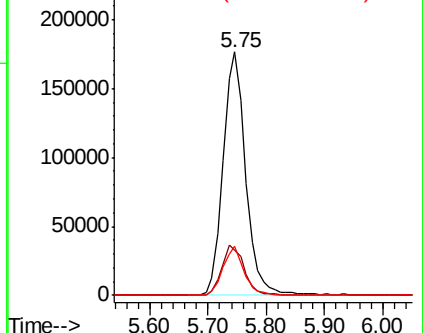
88 20.2 0.0 41.2



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: 38.59 ug/l

RT: 4.27 min Scan# 369

Delta R.T. -0.02 min

Lab File: VF060304.D

Acq: 20 Sep 2018 18:25

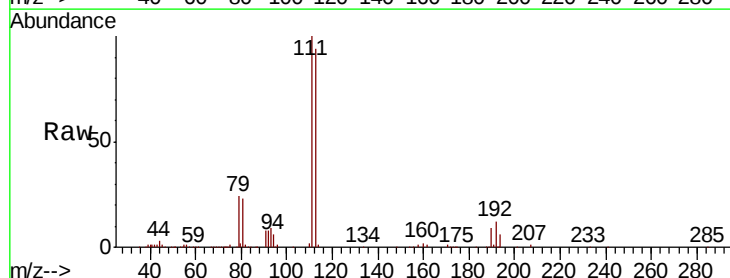
Tgt Ion:113 Resp: 163842

Ion Ratio Lower Upper

113 100

111 106.5 79.6 119.4

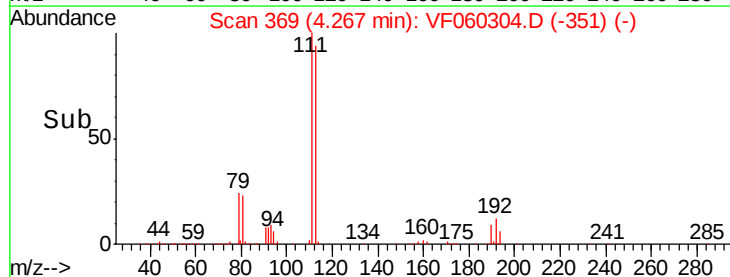
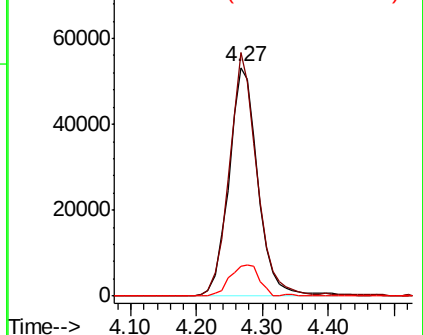
192 13.2 13.0 19.6

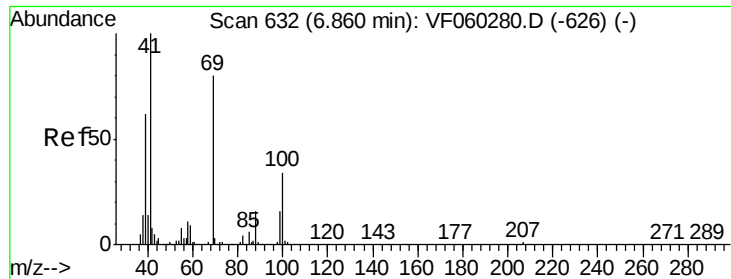


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

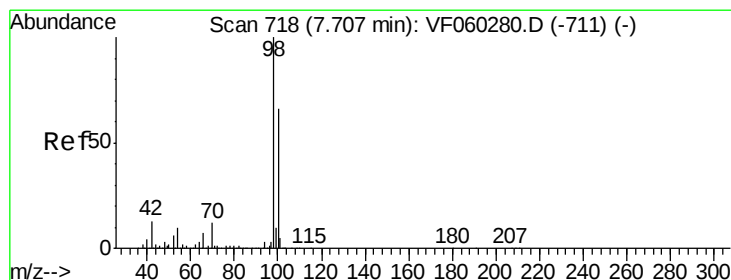
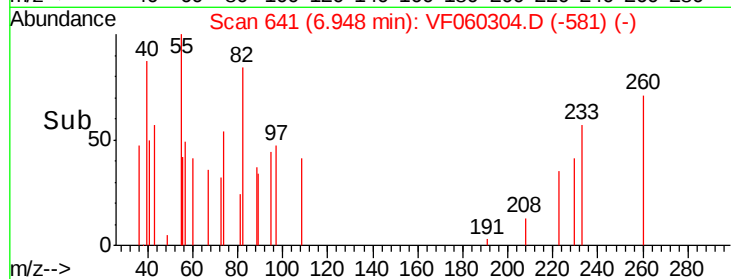
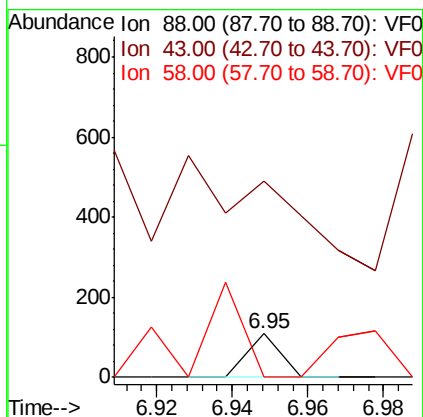
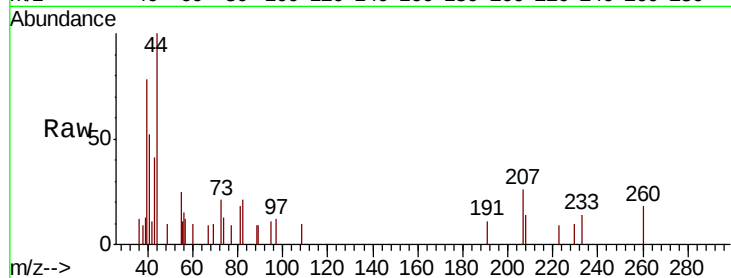




#49
1,4-Dioxane
Concen: 3.37 ug/l
RT: 6.95 min Scan# 641
Delta R.T. 0.09 min
Lab File: VF060304.D
Acq: 20 Sep 2018 18:25

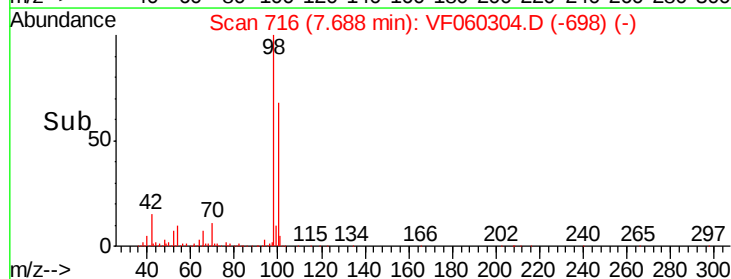
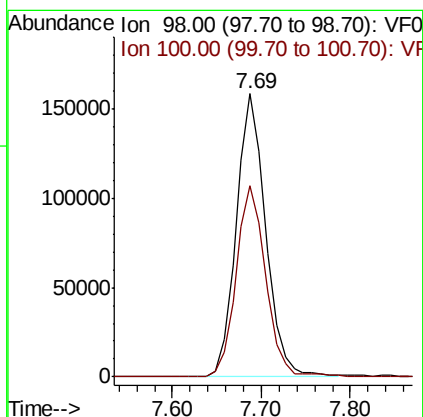
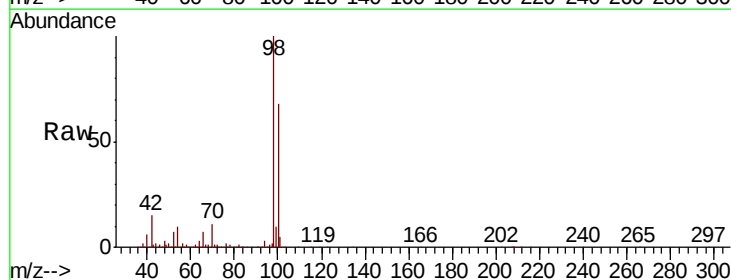
Instrument :
MSVOA_F
ClientSampled :
LS-SOIL-D

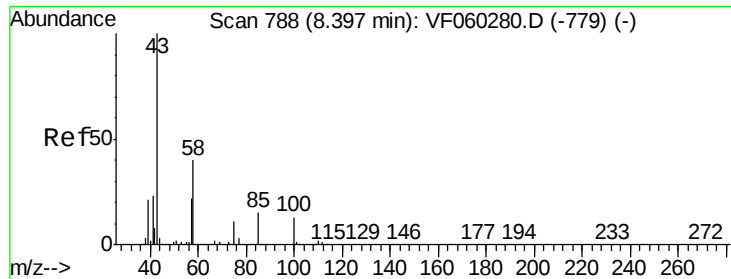
Tot Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 450.5 40.2 60.4#
58 0.0 56.7 85.1#



#50
Toluene-d8
Concen: 32.90 ug/l
RT: 7.69 min Scan# 716
Delta R.T. -0.02 min
Lab File: VF060304.D
Acq: 20 Sep 2018 18:25

Tgt Ion: 98 Resp: 363734
Ion Ratio Lower Upper
98 100
100 67.5 53.0 79.6





#51

4-Methyl-2-Pentanone

Concen: 1.77 ug/l

RT: 8.39 min Scan# 787

Delta R.T. -0.01 min

Lab File: VF060304.D

Acq: 20 Sep 2018 18:25

Instrument :

MSVOA_F

ClientSampleID :

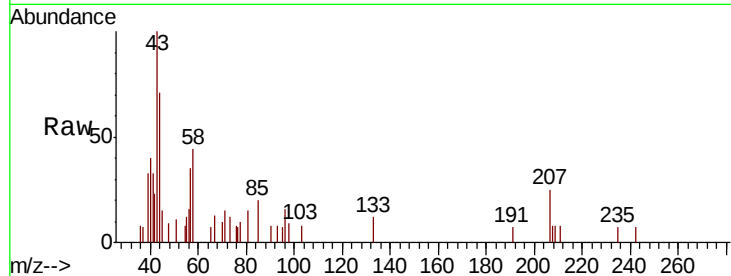
LS-SOIL-D

Tot Ion: 43 Resp: 4117

Ion Ratio Lower Upper

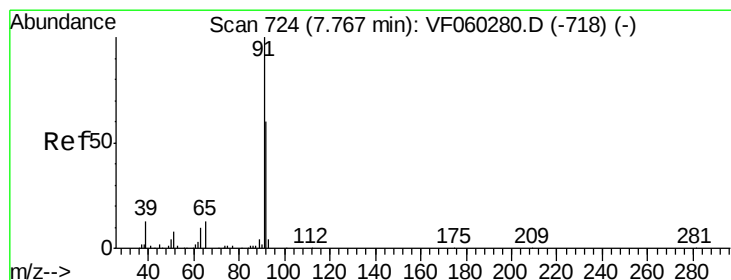
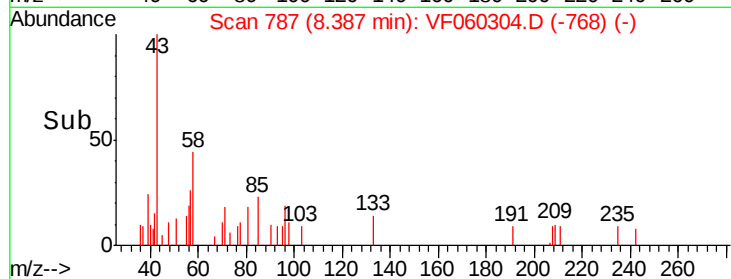
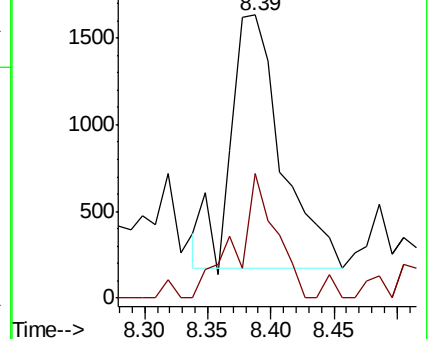
43 100

58 43.9 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: 1.43 ug/l

RT: 7.76 min Scan# 723

Delta R.T. -0.01 min

Lab File: VF060304.D

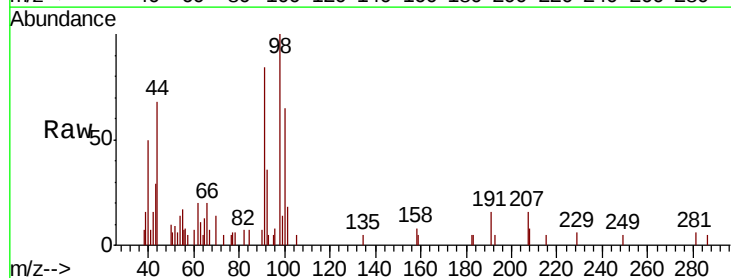
Acq: 20 Sep 2018 18:25

Tgt Ion: 63 Resp: 396

Ion Ratio Lower Upper

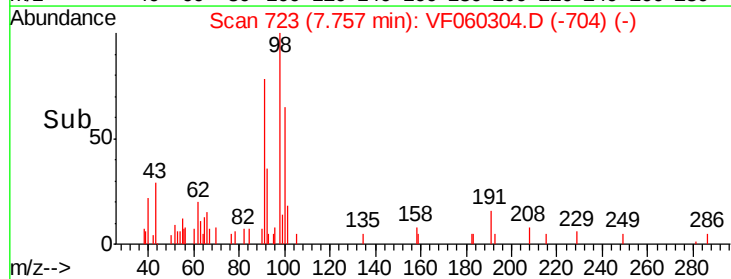
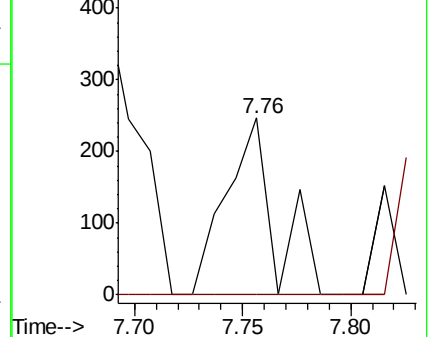
63 100

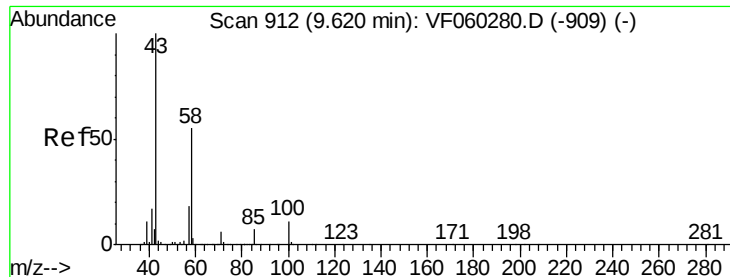
106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

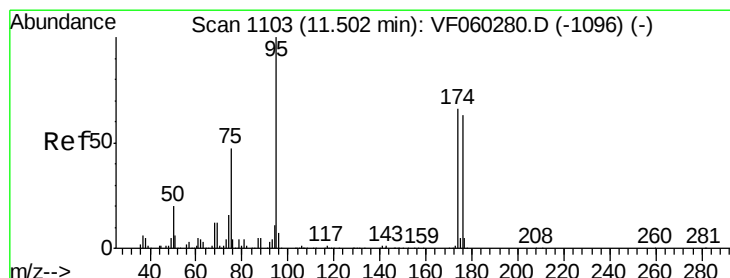
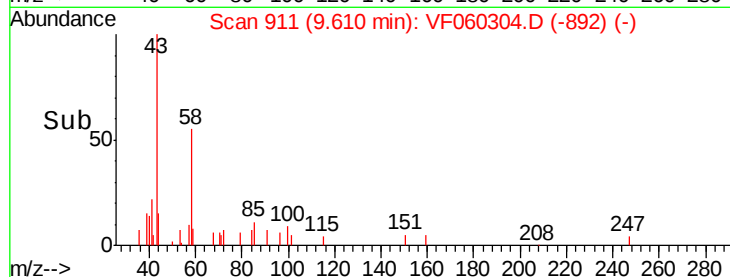
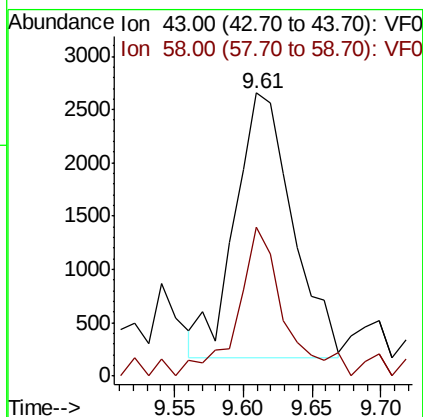
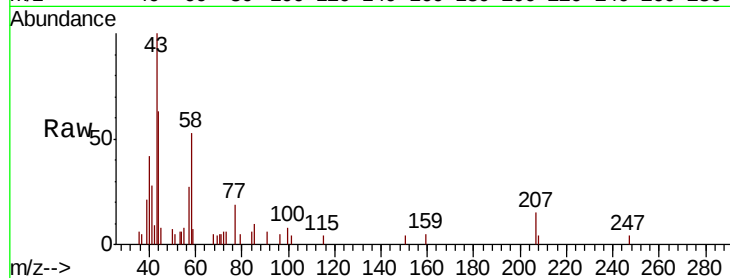




#59
2-Hexanone
Concen: 4.36 ug/l
RT: 9.61 min Scan# 911
Delta R.T. -0.01 min
Lab File: VF060304.D
Acq: 20 Sep 2018 18:25

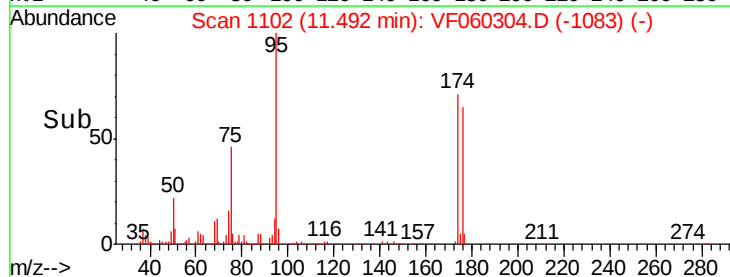
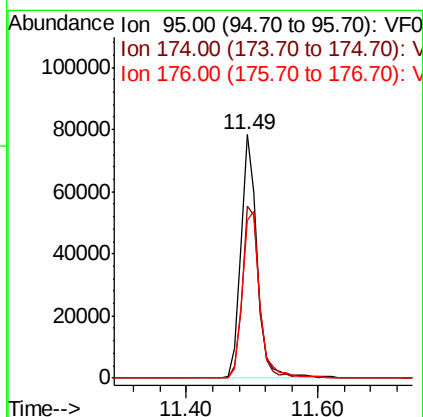
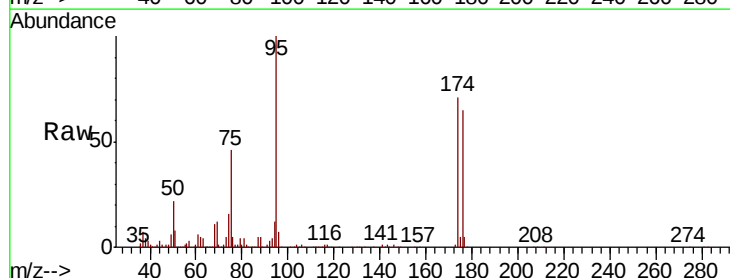
Instrument :
MSVOA_F
ClientSampleId :
LS-SOIL-D

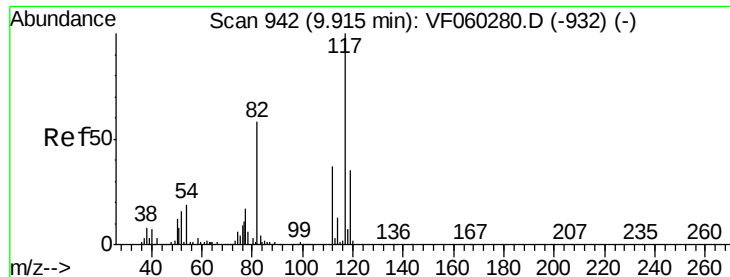
Tot Ion: 43 Resp: 7238
Ion Ratio Lower Upper
43 100
58 52.6 25.9 77.6



#62
4-Bromofluorobenzene
Concen: 28.49 ug/l
RT: 11.49 min Scan# 1102
Delta R.T. -0.01 min
Lab File: VF060304.D
Acq: 20 Sep 2018 18:25

Tgt Ion: 95 Resp: 136161
Ion Ratio Lower Upper
95 100
174 70.6 0.0 131.2
176 65.1 0.0 126.6

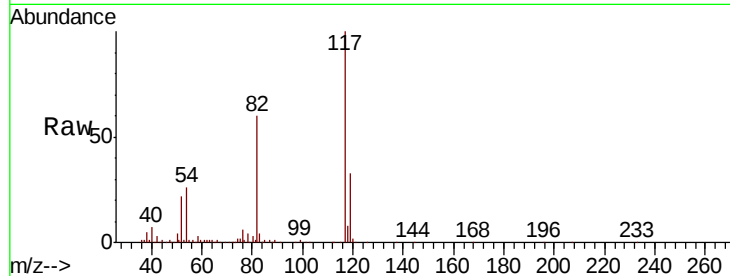




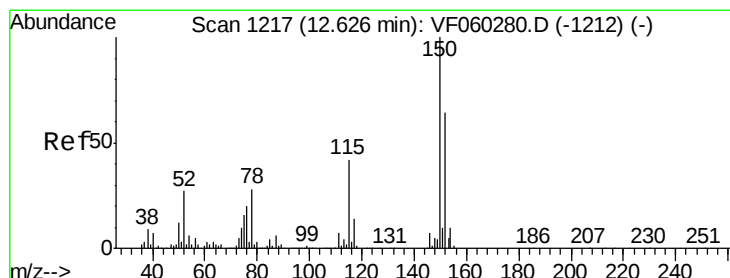
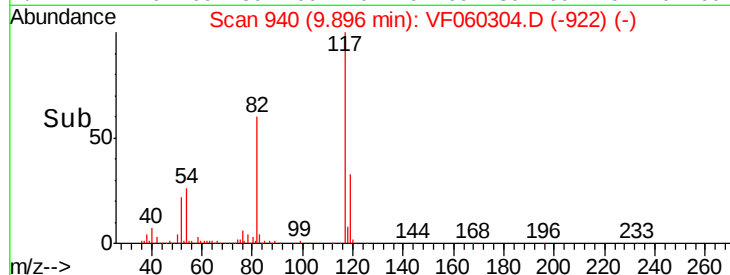
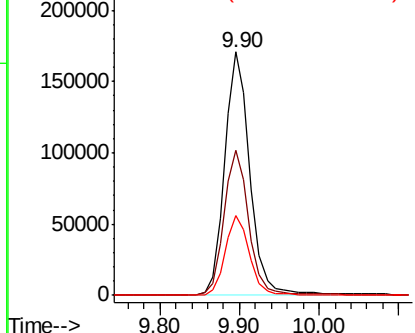
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.90 min Scan# 940
Delta R.T. -0.02 min
Lab File: VF060304.D
Acq: 20 Sep 2018 18:25

Instrument :
MSVOA_F
ClientSampleId :
LS-SOIL-D

Tot Ion:117 Resp: 380011
Ion Ratio Lower Upper
117 100
82 59.6 46.2 69.2
119 32.7 27.8 41.6

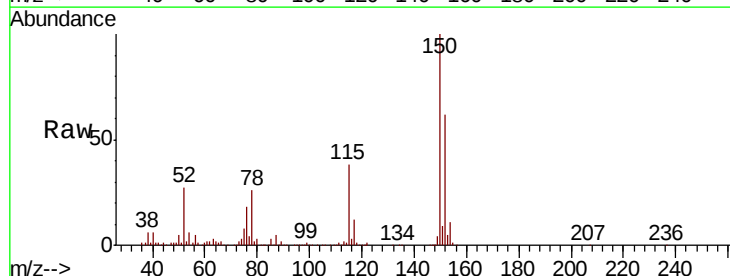


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

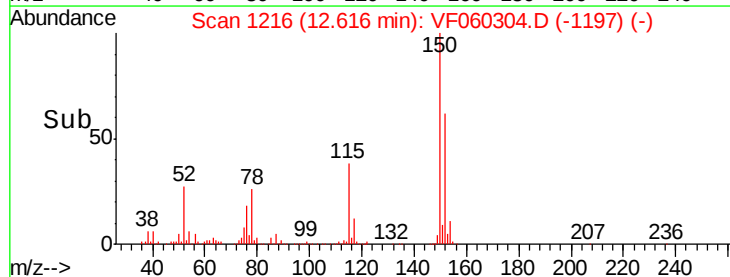
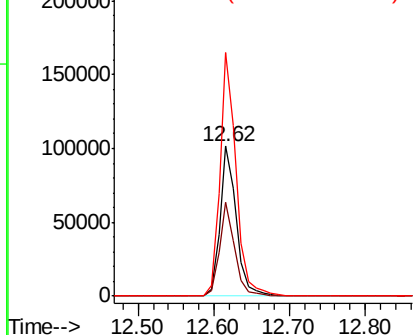


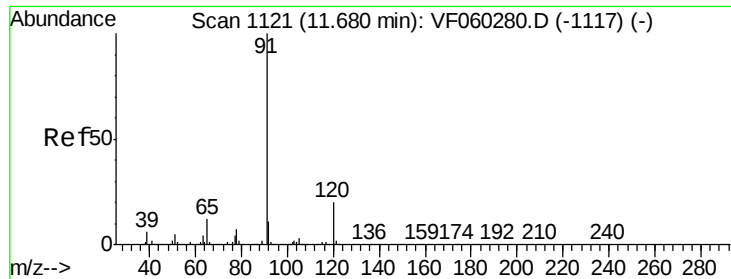
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.62 min Scan# 1216
Delta R.T. -0.01 min
Lab File: VF060304.D
Acq: 20 Sep 2018 18:25

Tgt Ion:152 Resp: 153265
Ion Ratio Lower Upper
152 100
115 62.4 32.6 97.8
150 162.2 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





#78

n-propylbenzene

Concen: Below Cal

RT: 11.67 min Scan# 1120

Delta R.T. -0.01 min

Lab File: VF060304.D

Acq: 20 Sep 2018 18:25

Instrument :

MSVOA_F

ClientSampleId :

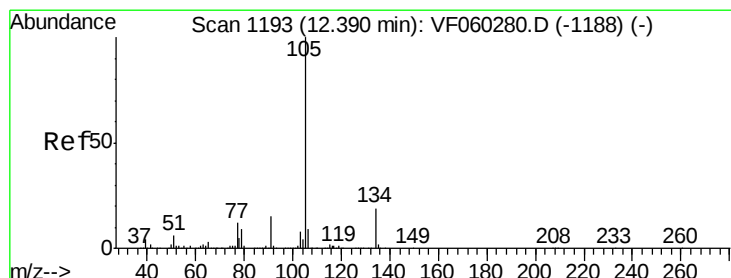
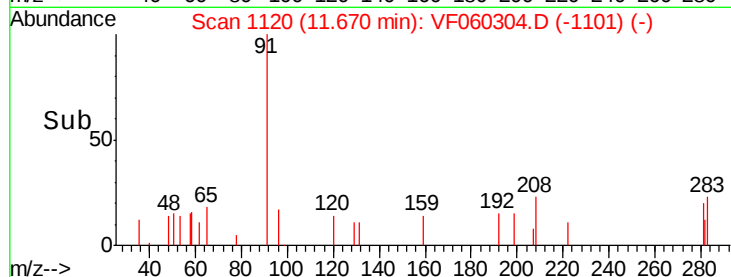
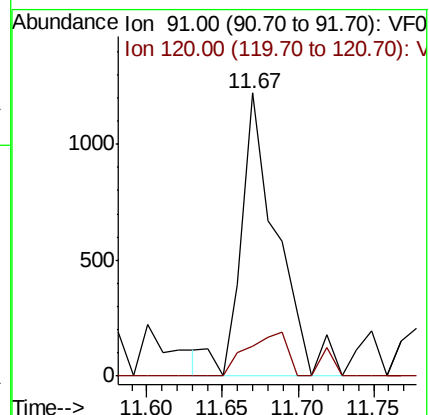
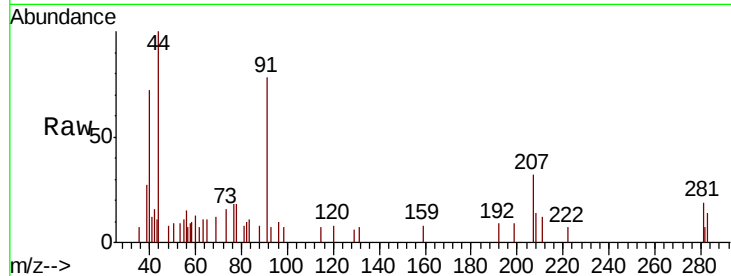
LS-SOIL-D

Tot Ion: 91 Resp: 2029

Ion Ratio Lower Upper

91 100

120 10.7 10.0 29.8



#85

sec-Butylbenzene

Concen: Below Cal

RT: 12.37 min Scan# 1191

Delta R.T. -0.02 min

Lab File: VF060304.D

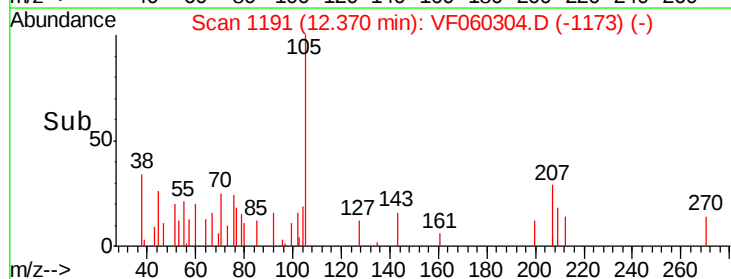
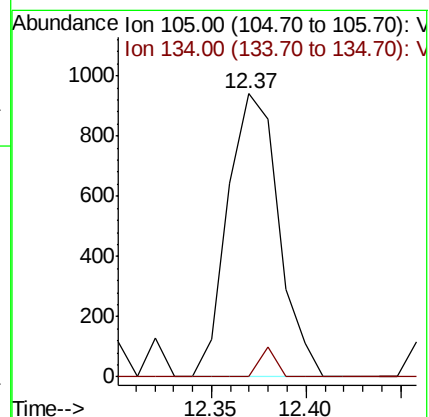
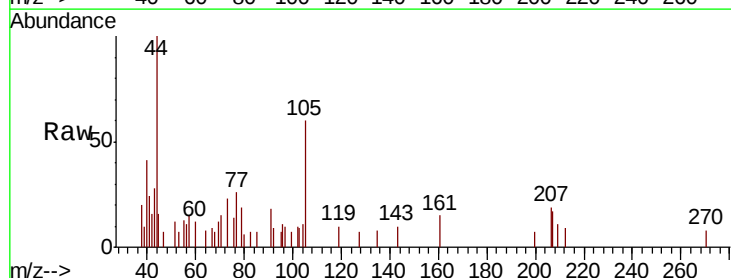
Acq: 20 Sep 2018 18:25

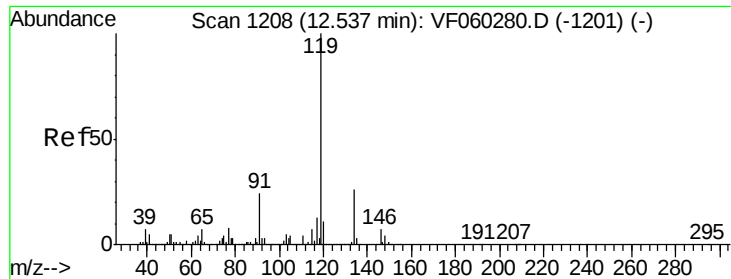
Tgt Ion: 105 Resp: 1755

Ion Ratio Lower Upper

105 100

134 0.0 9.6 28.6#





#86
 p-Isopropyltoluene
 Concen: Below Cal
 RT: 12.53 min Scan# 1207
 Delta R.T. -0.01 min
 Lab File: VF060304.D
 Acq: 20 Sep 2018 18:25

Instrument :
 MSVOA_F
 ClientSampleId :
 LS-SOIL-D

Tot Ion:	119	Resp:	1826
Ion	Ratio	Lower	Upper
119	100		
134	37.5	12.9	38.7
91	26.9	11.9	35.7

