

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092318\
 Data File : VN051418.D
 Acq On : 23 Sep 2018 17:15
 Operator : MD\SY
 Sample : J5021-12
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LS-SOIL-C

Quant Time: Sep 24 06:47:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

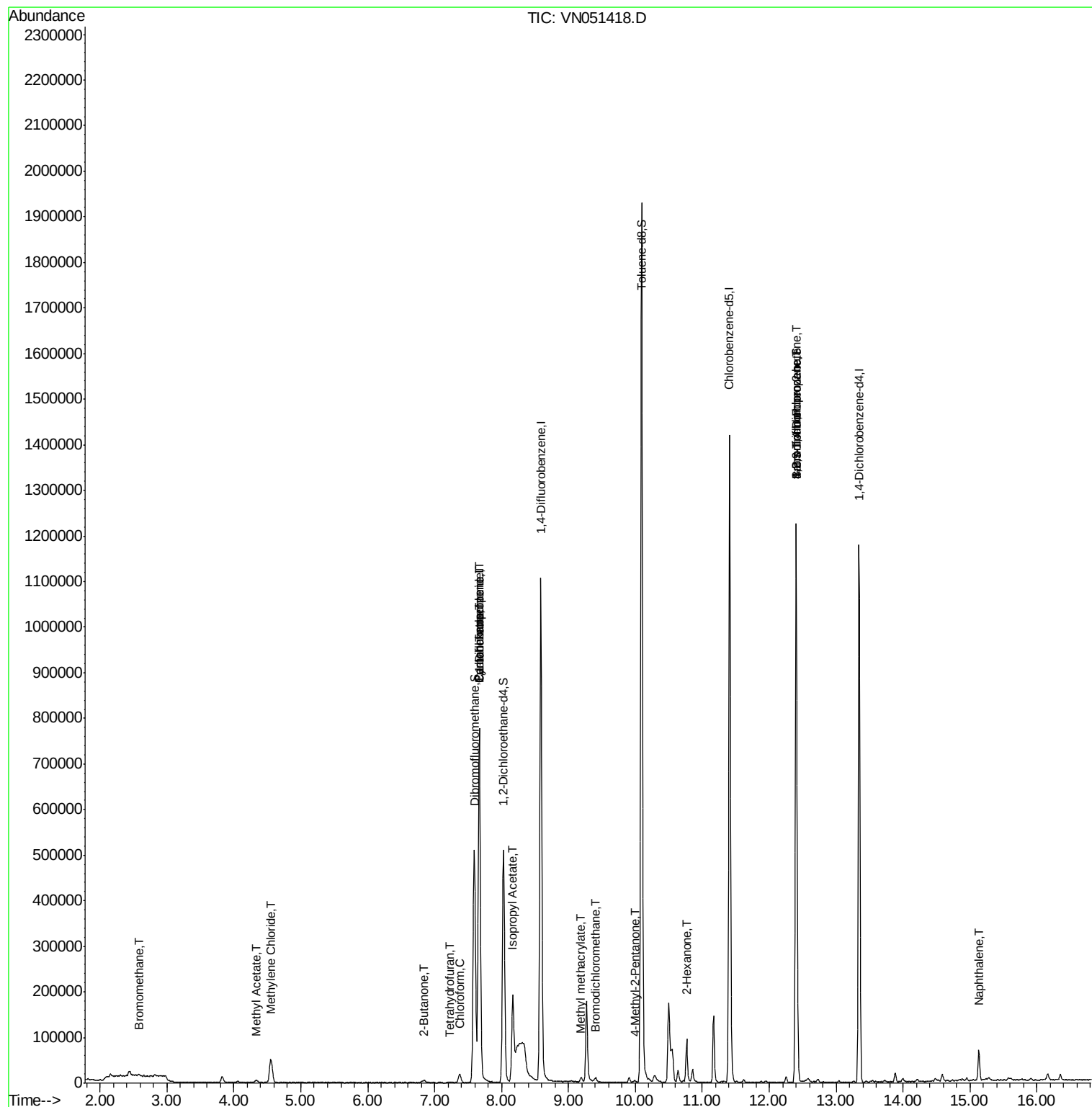
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	657793	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1012756	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	863704	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	338891	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	445228	54.03	ug/l	0.00
Spiked Amount 50.000			Recovery	=	108.06%	
35) Dibromofluoromethane	7.59	113	393641	48.61	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.22%	
50) Toluene-d8	10.09	98	1420279	46.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.14%	
62) 4-Bromofluorobenzene	12.40	95	399807	40.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	81.06%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.58	94	1370	0.271	ug/l	87
16) Acetone	3.83	43	22890	Below Cal		90
18) Methyl Acetate	4.33	43	11259	1.794	ug/l	99
20) Methylene Chloride	4.55	84	39679	4.866	ug/l	98
25) 2-Butanone	6.83	43	1717	0.609	ug/l	100
29) Tetrahydrofuran	7.22	42	1027	0.575	ug/l #	78
30) Chloroform	7.37	83	21557	1.536	ug/l	88
31) Cyclohexane	7.66	56	12183	0.939	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45981	3.921	ug/l #	49
38) Carbon Tetrachloride	7.67	117	60893	4.964	ug/l #	16
43) Isopropyl Acetate	8.17	43	247339	20.285	ug/l	94
47) Bromodichloromethane	9.40	83	5569	0.476	ug/l	98
48) Methyl methacrylate	9.18	41	6303	1.037	ug/l #	18
51) 4-Methyl-2-Pentanone	9.99	43	2412	0.360	ug/l #	84
59) 2-Hexanone	10.76	43	14387	3.309	ug/l #	55
71) Bromoform	12.40	173	3243	0.566	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	201464	35.811	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	201464	110.115	ug/l #	12
95) Naphthalene	15.13	128	56552	11.810	ug/l	98

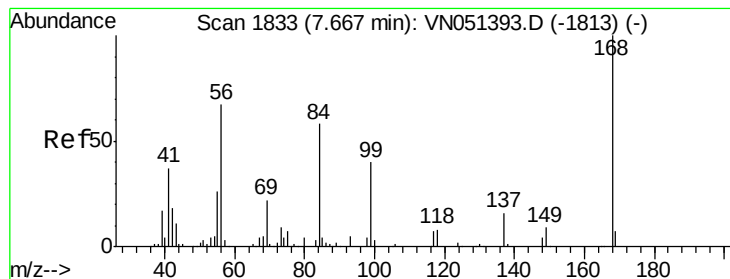
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051418.D

Acq: 23 Sep 2018 17:15

Instrument :

MSVOA_N

ClientSampled :

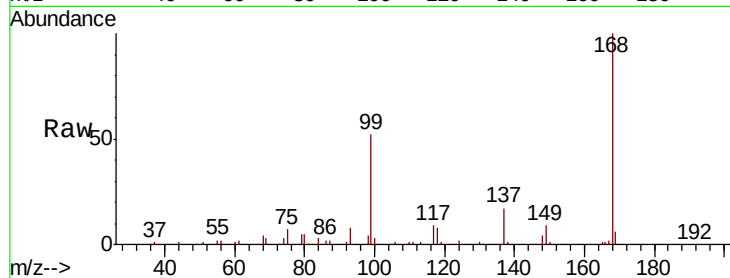
LS-SOIL-C

Tgt Ion:168 Resp: 657793

Ion Ratio Lower Upper

168 100

99 51.8 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

300000

250000

200000

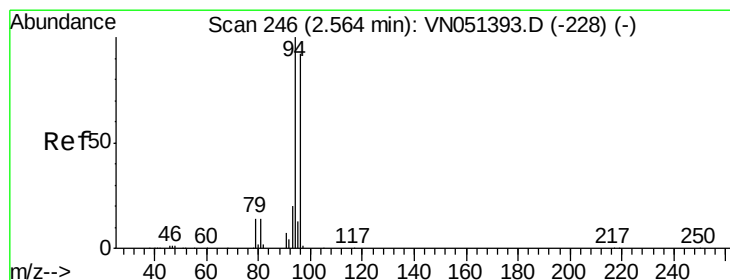
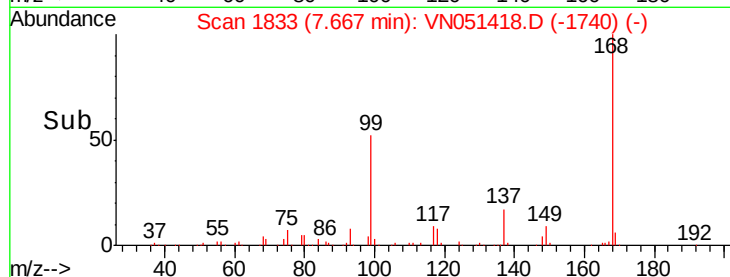
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: 0.271 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN051418.D

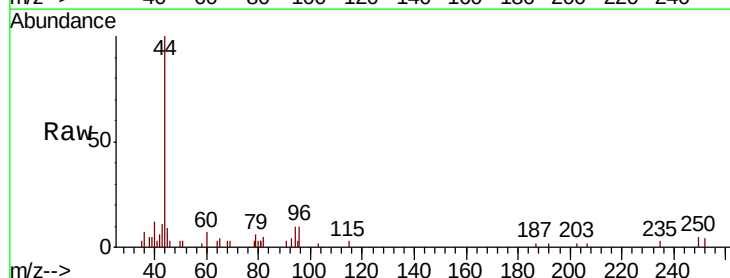
Acq: 23 Sep 2018 17:15

Tgt Ion: 94 Resp: 1370

Ion Ratio Lower Upper

94 100

96 79.8 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN051393.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051393.D (-228) (-)

2.58

800

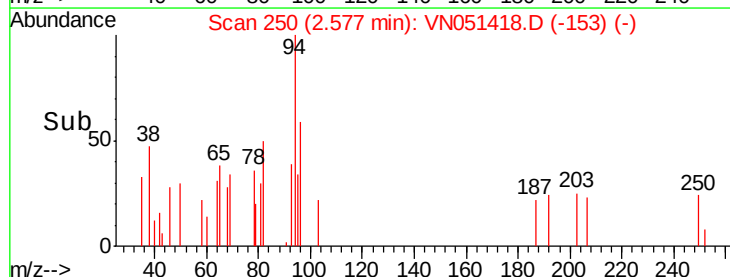
600

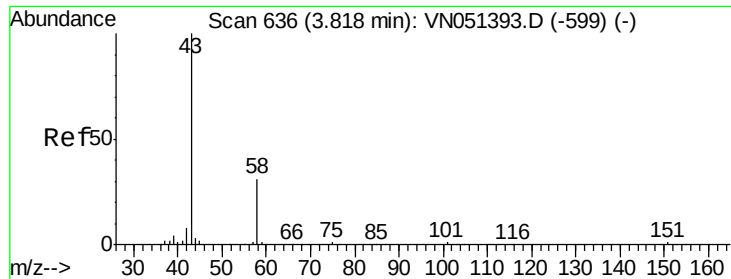
400

200

0

Time--> 2.55 2.60





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051418.D

Acq: 23 Sep 2018 17:15

Instrument :

MSVOA_N

ClientSampled :

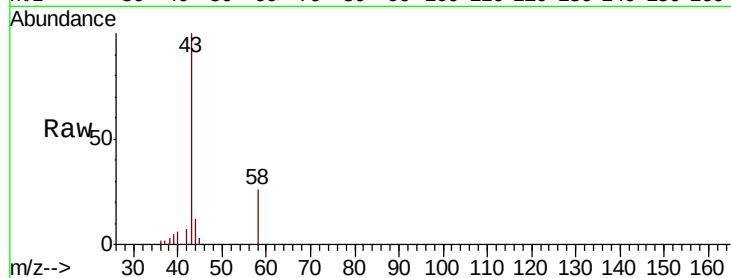
LS-SOIL-C

Tgt Ion: 43 Resp: 22890

Ion Ratio Lower Upper

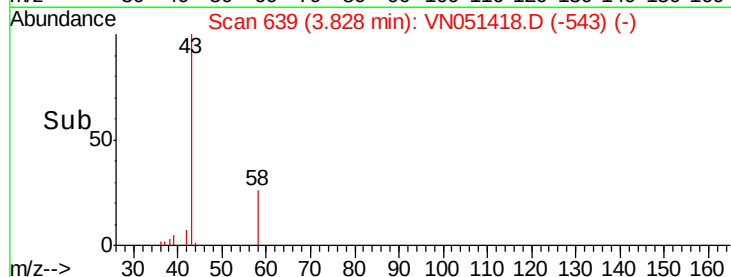
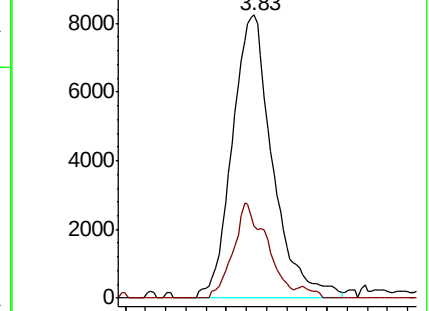
43 100

58 25.6 25.0 37.4

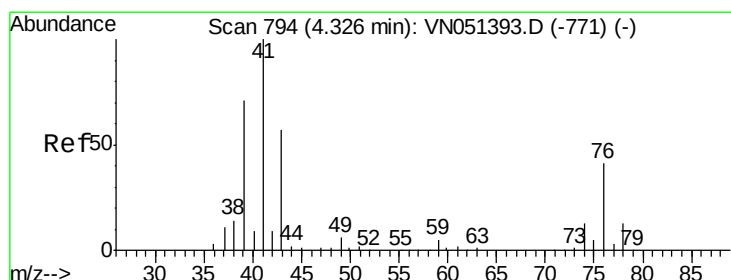


Abundance Ion 43.00 (42.70 to 43.70): VN051418.D (-543) (-)

Ion 58.00 (57.70 to 58.70): VN051418.D (-543) (-)



Time-->



#18

Methyl Acetate

Concen: 1.794 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN051418.D

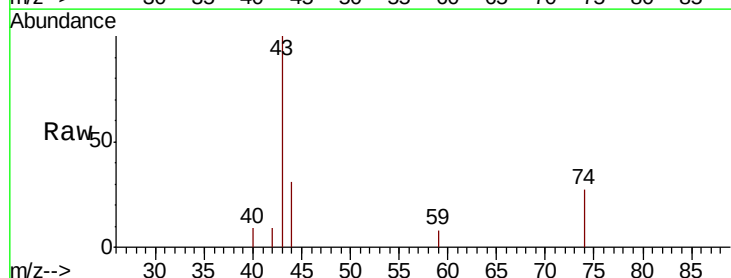
Acq: 23 Sep 2018 17:15

Tgt Ion: 43 Resp: 11259

Ion Ratio Lower Upper

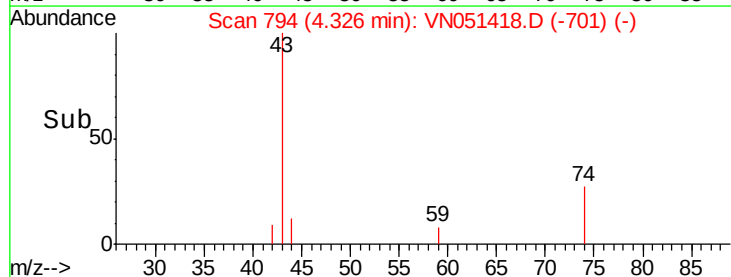
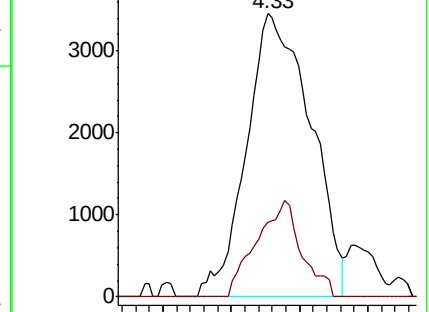
43 100

74 23.8 18.8 28.2

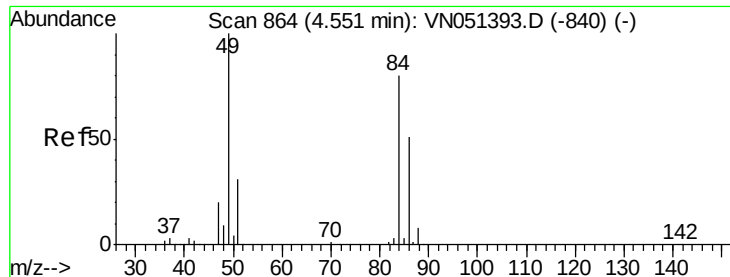


Abundance Ion 43.00 (42.70 to 43.70): VN051418.D (-701) (-)

Ion 74.00 (73.70 to 74.70): VN051418.D (-701) (-)



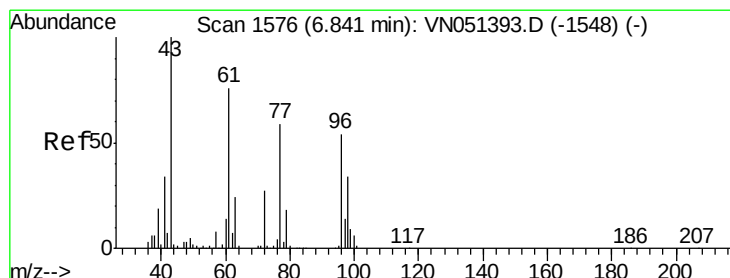
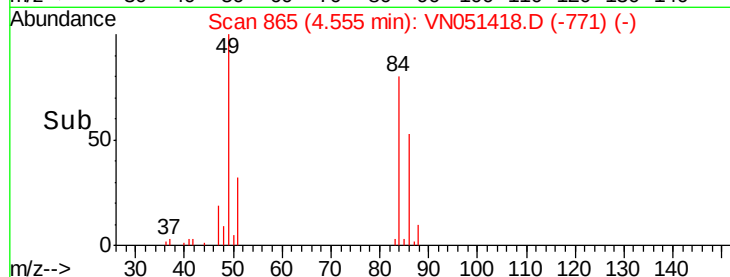
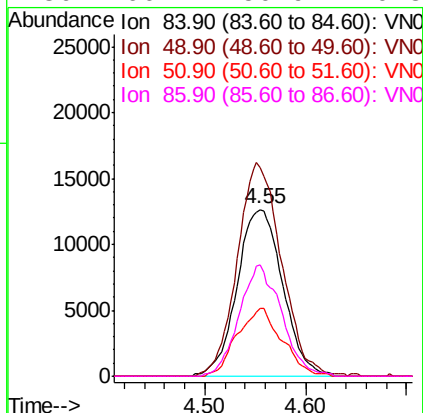
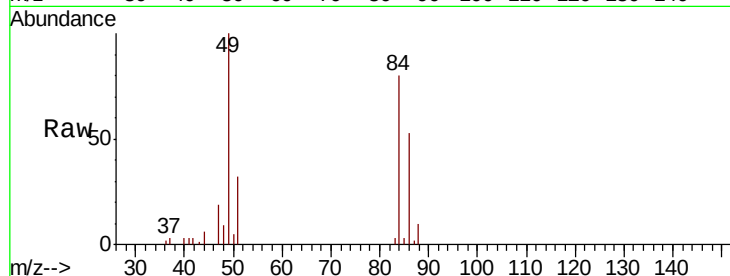
Time-->



#20
Methylene Chloride
Concen: 4.866 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051418.D
Acq: 23 Sep 2018 17:15

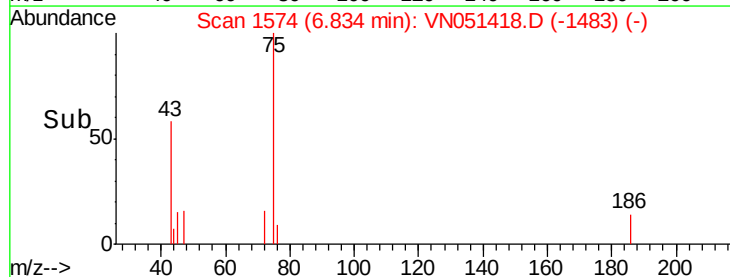
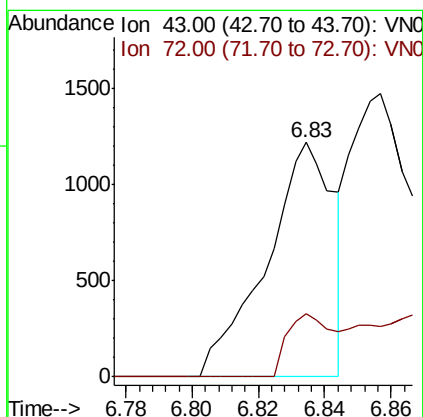
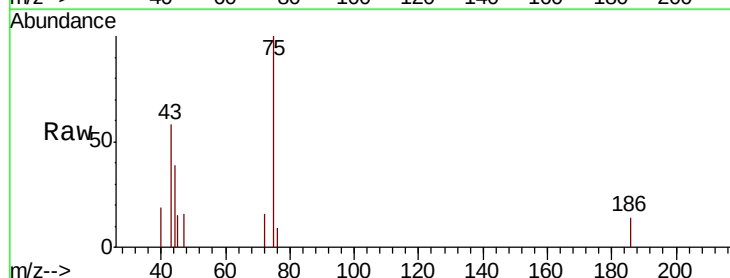
Instrument :
MSVOA_N
ClientSampleId :
LS-SOIL-C

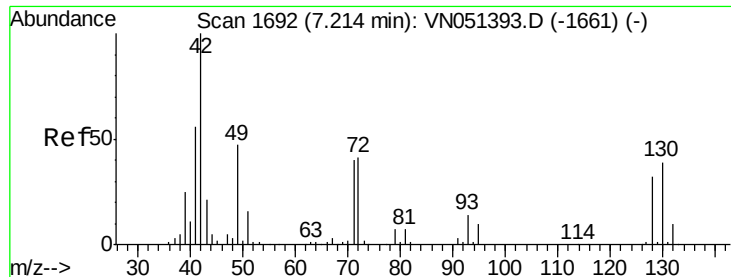
Tgt Ion:	84	Resp:	39679
Ion	Ratio	Lower	Upper
84	100		
49	125.4	99.9	149.9
51	40.5	31.4	47.2
86	66.4	50.9	76.3



#25
2-Butanone
Concen: 0.609 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. -0.01 min
Lab File: VN051418.D
Acq: 23 Sep 2018 17:15

Tgt Ion:	43	Resp:	1717
Ion	Ratio	Lower	Upper
43	100		
72	27.2	21.8	32.6

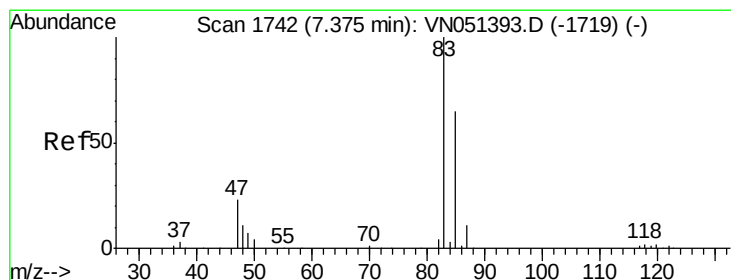
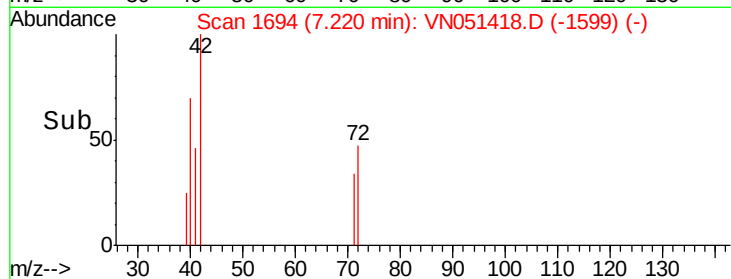
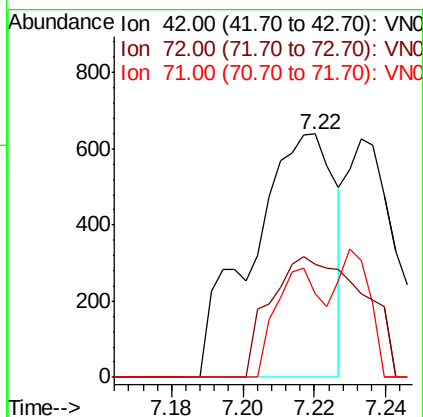
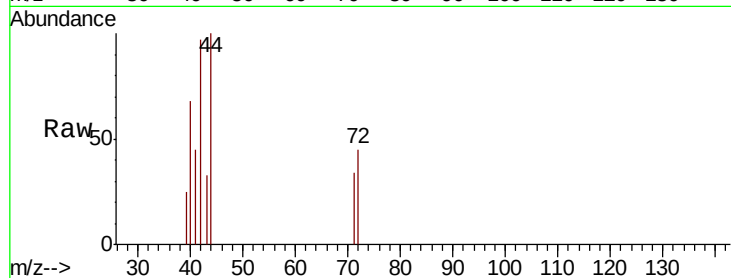




#29
Tetrahydrofuran
Concen: 0.575 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN051418.D
Acq: 23 Sep 2018 17:15

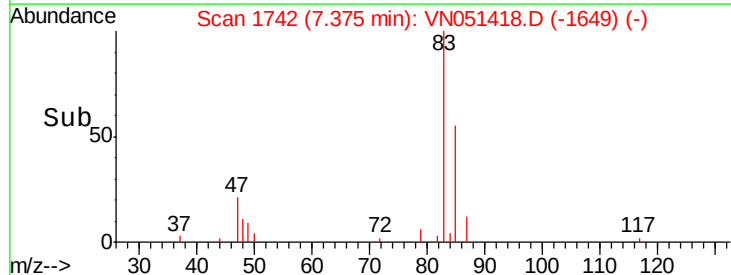
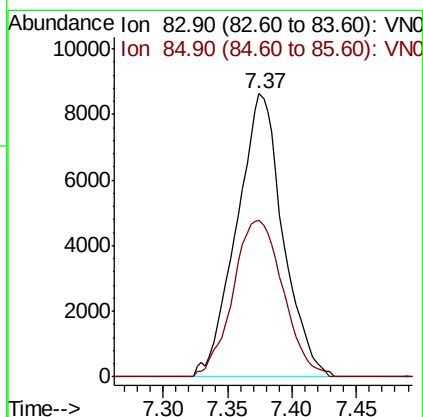
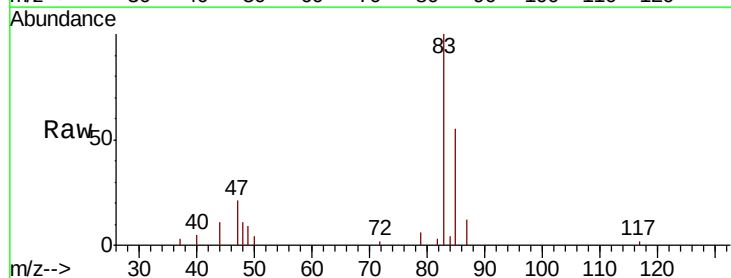
Instrument :
MSVOA_N
ClientSampled :
LS-SOIL-C

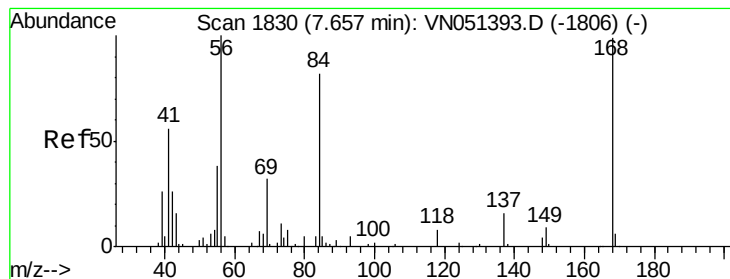
Tgt Ion: 42 Resp: 1027
Ion Ratio Lower Upper
42 100
72 55.5 34.3 51.5#
71 25.0 32.2 48.4#



#30
Chloroform
Concen: 1.536 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. -0.00 min
Lab File: VN051418.D
Acq: 23 Sep 2018 17:15

Tgt Ion: 83 Resp: 21557
Ion Ratio Lower Upper
83 100
85 55.2 51.8 77.6





#31

Cyclohexane

Concen: 0.939 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051418.D

Acq: 23 Sep 2018 17:15

Instrument :

MSVOA_N

ClientSampled :

LS-SOIL-C

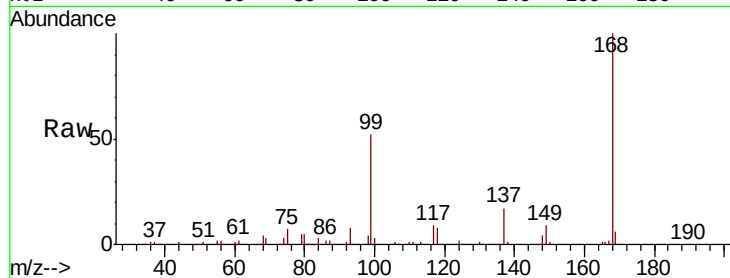
Tgt Ion: 56 Resp: 12183

Ion Ratio Lower Upper

56 100

69 170.2 25.8 38.6#

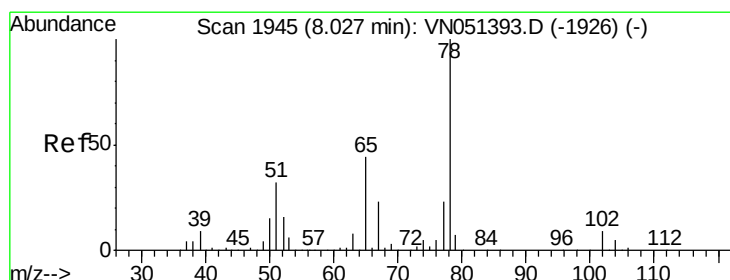
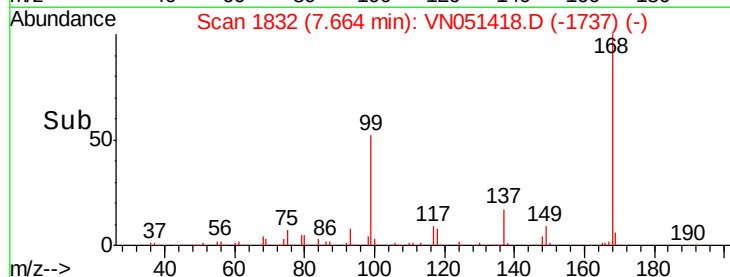
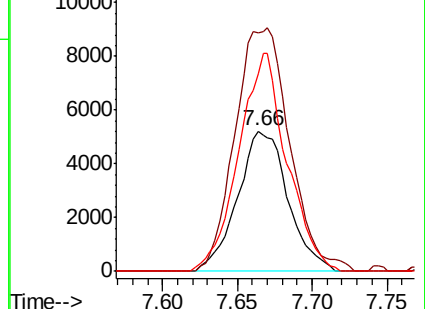
84 141.0 66.0 99.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 54.032 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN051418.D

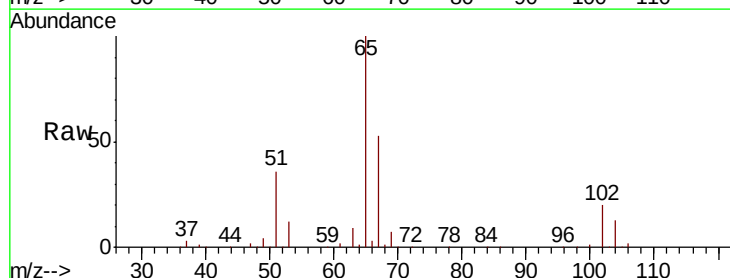
Acq: 23 Sep 2018 17:15

Tgt Ion: 65 Resp: 445228

Ion Ratio Lower Upper

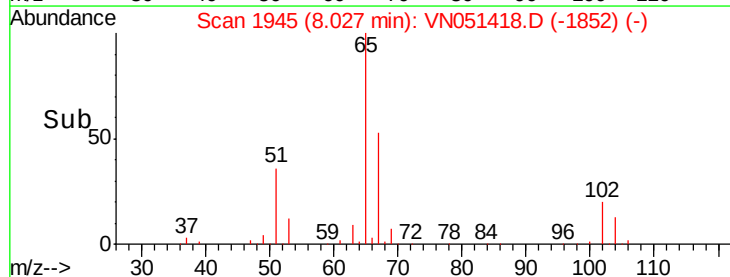
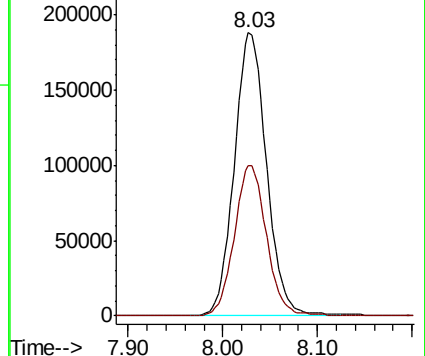
65 100

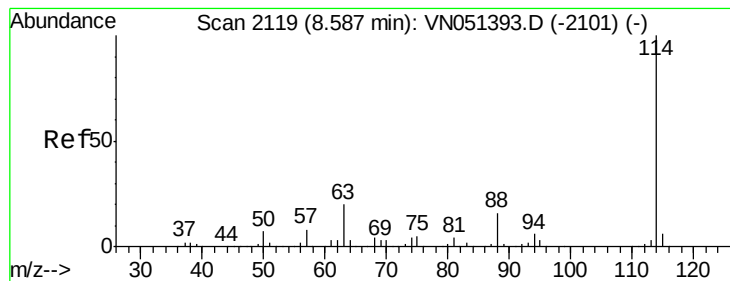
67 52.7 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051418.D

Acq: 23 Sep 2018 17:15

Instrument :

MSVOA_N

ClientSampleId :

LS-SOIL-C

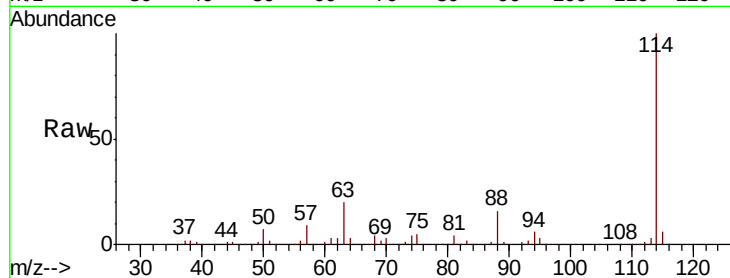
Tgt Ion:114 Resp: 1012756

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.2

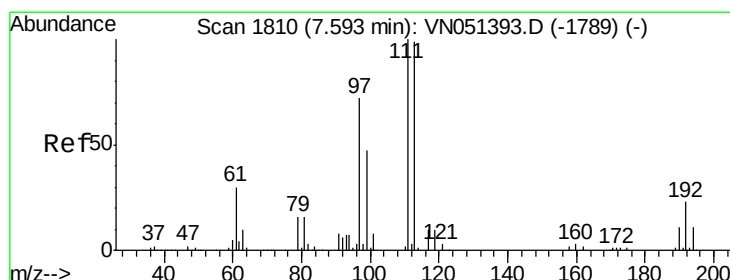
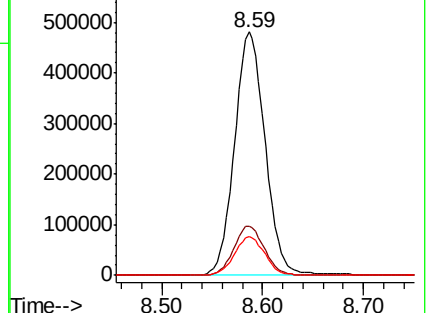
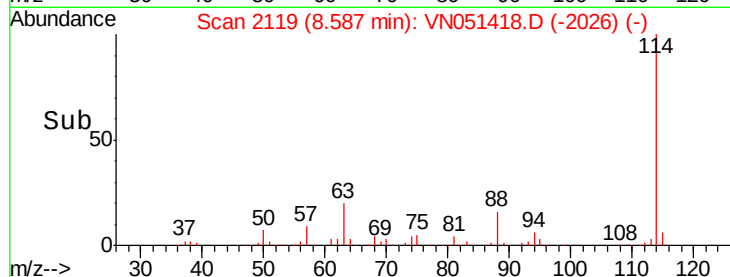
88 15.8 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 48.606 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051418.D

Acq: 23 Sep 2018 17:15

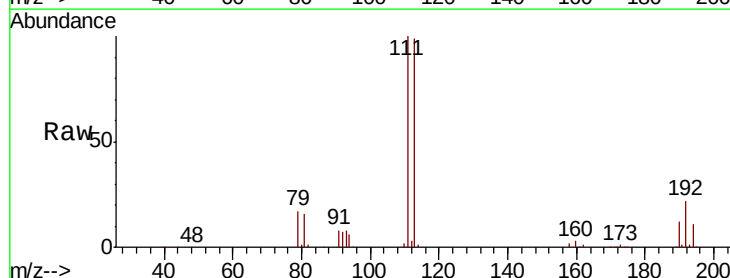
Tgt Ion:113 Resp: 393641

Ion Ratio Lower Upper

113 100

111 101.9 82.6 123.8

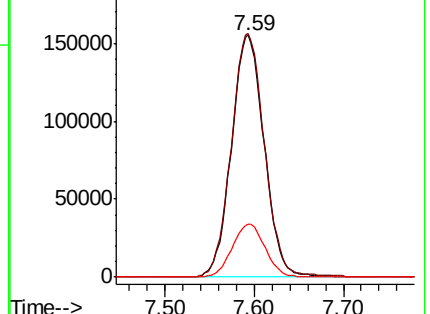
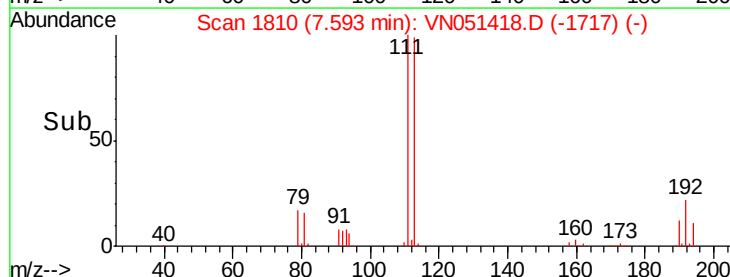
192 22.1 18.0 27.0

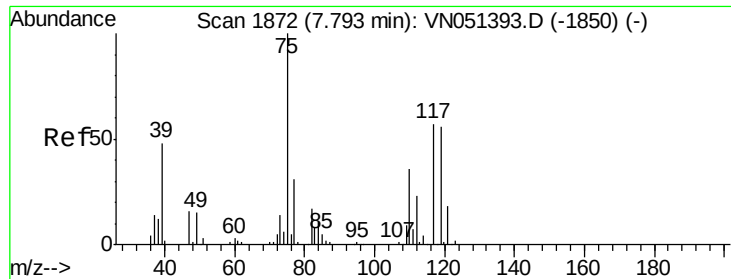


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

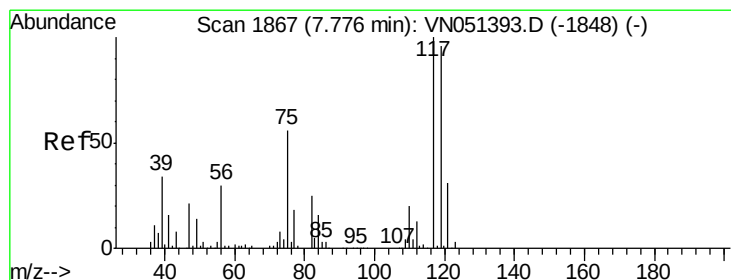
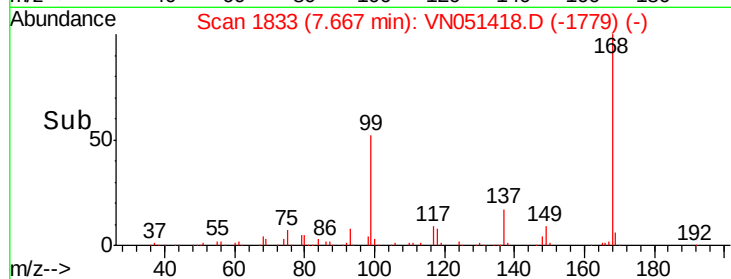
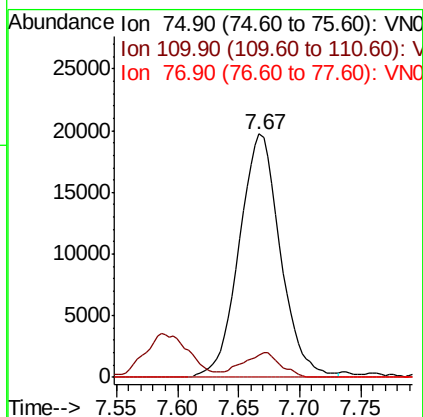
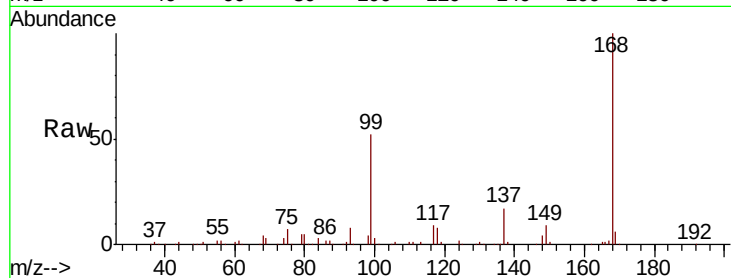




#36
 1,1-Dichloropropene
 Concen: 3.921 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051418.D
 Acq: 23 Sep 2018 17:15

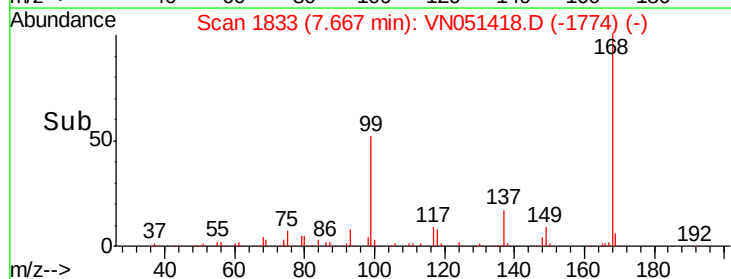
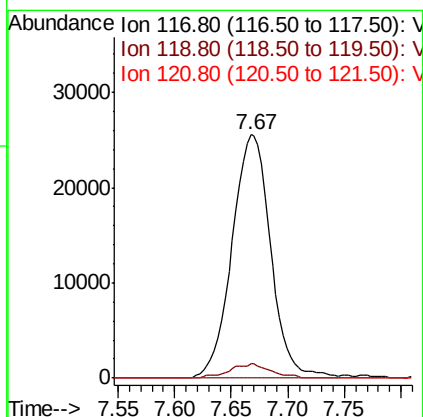
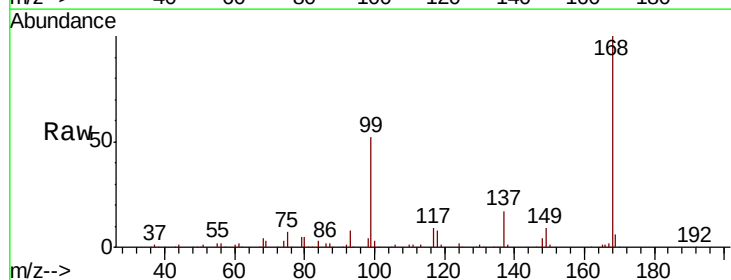
Instrument :
 MSVOA_N
 ClientSampled :
 LS-SOIL-C

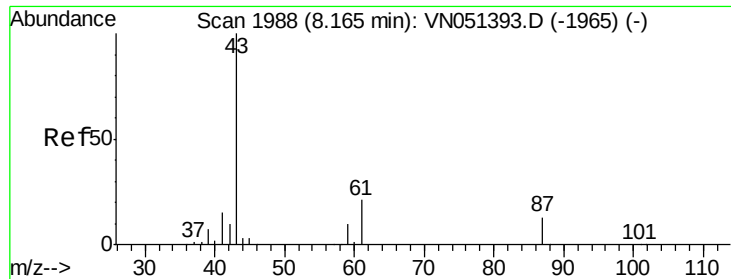
Tgt Ion: 75 Resp: 45981
 Ion Ratio Lower Upper
 75 100
 110 9.2 18.1 54.3#
 77 0.0 25.6 38.4#



#38
 Carbon Tetrachloride
 Concen: 4.964 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051418.D
 Acq: 23 Sep 2018 17:15

Tgt Ion: 117 Resp: 60893
 Ion Ratio Lower Upper
 117 100
 119 5.8 76.9 115.3#
 121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 20.285 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051418.D

Acq: 23 Sep 2018 17:15

Instrument :

MSVOA_N

ClientSampled :

LS-SOIL-C

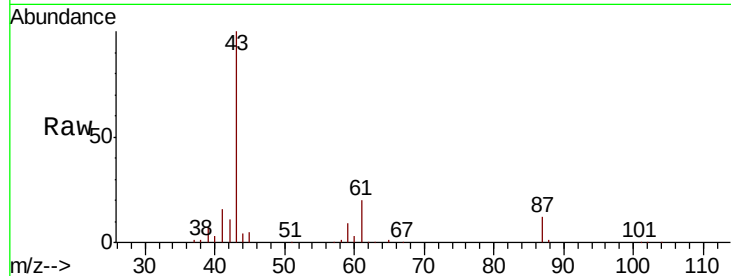
Tgt Ion: 43 Resp: 247339

Ion Ratio Lower Upper

43 100

61 18.1 16.8 25.2

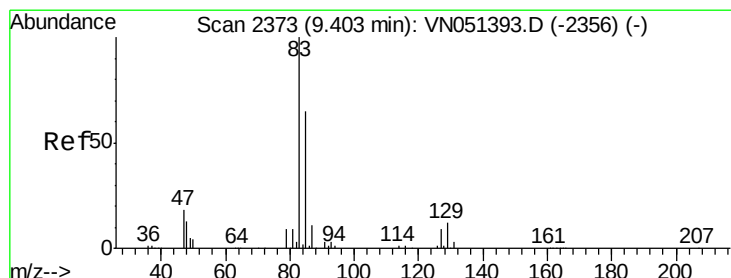
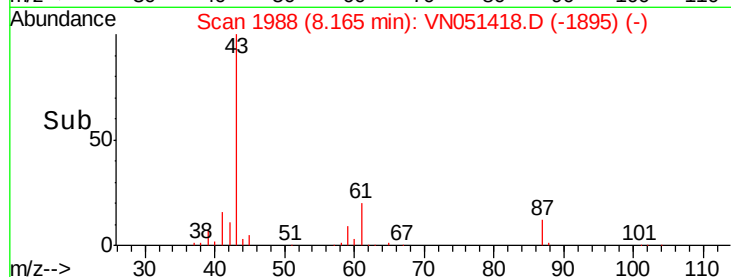
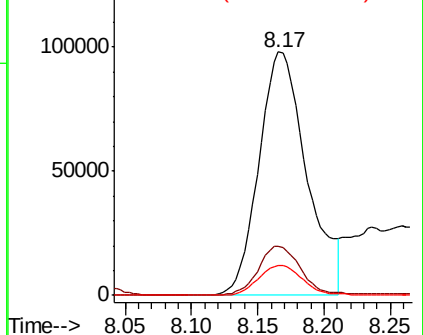
87 11.4 10.7 16.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#47

Bromodichloromethane

Concen: 0.476 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN051418.D

Acq: 23 Sep 2018 17:15

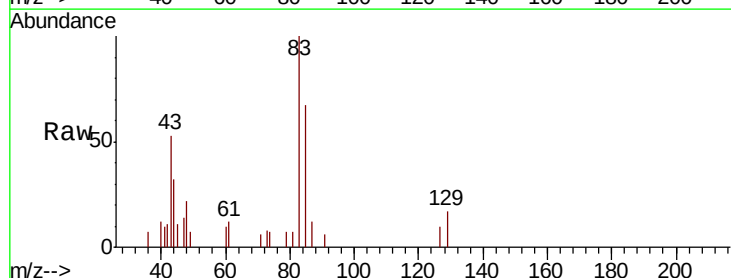
Tgt Ion: 83 Resp: 5569

Ion Ratio Lower Upper

83 100

85 66.6 51.8 77.6

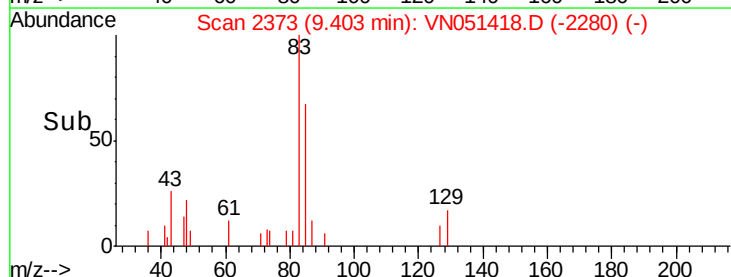
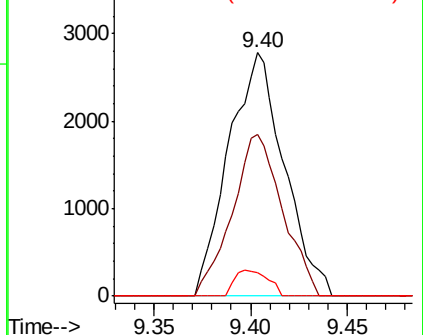
127 9.6 7.4 11.2

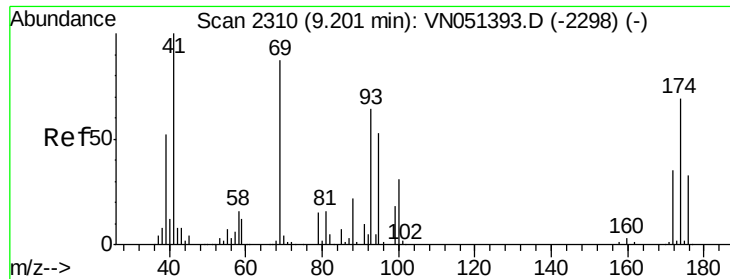


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): V

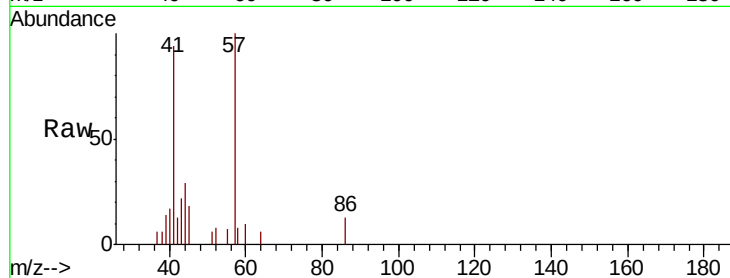




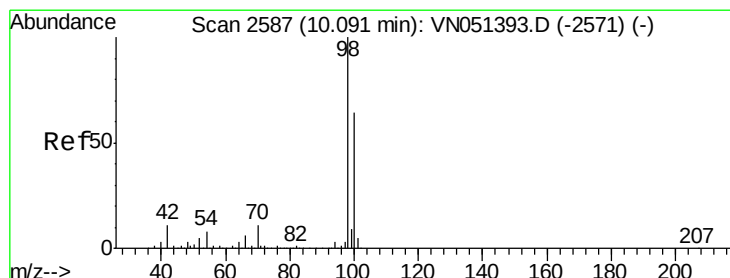
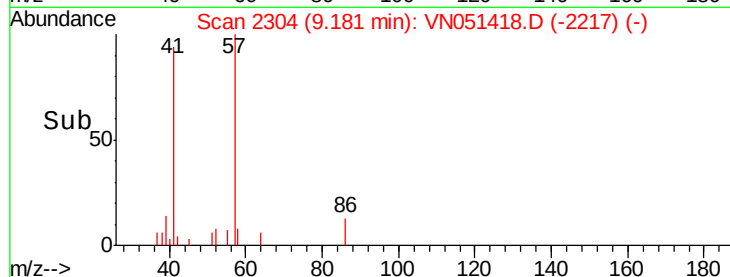
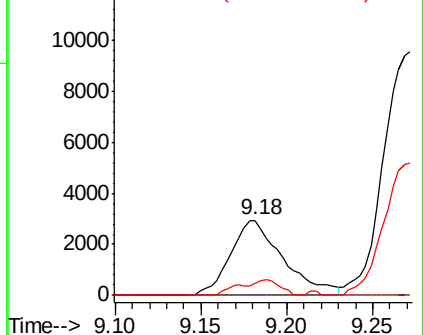
#48
Methyl methacrylate
Concen: 1.037 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051418.D
Acq: 23 Sep 2018 17:15

Instrument :
MSVOA_N
ClientSampled :
LS-SOIL-C

Tgt Ion: 41 Resp: 6303
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 9.5 43.8 65.8#

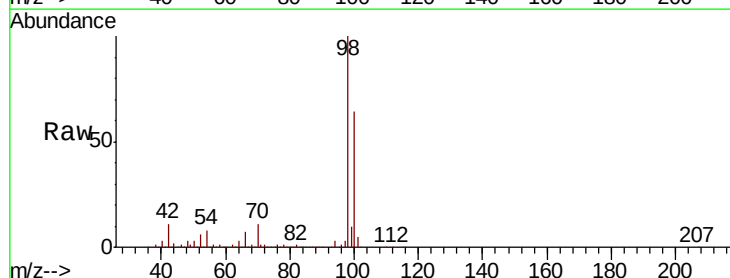


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

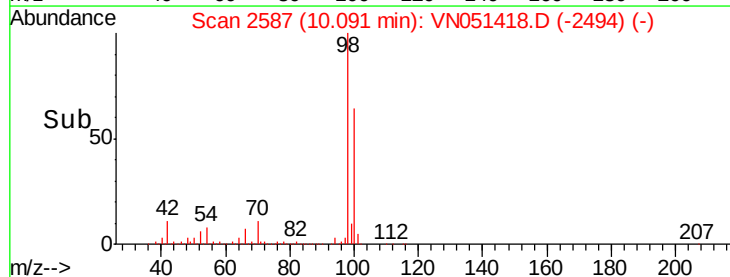
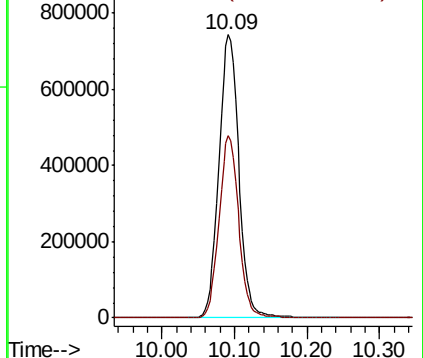


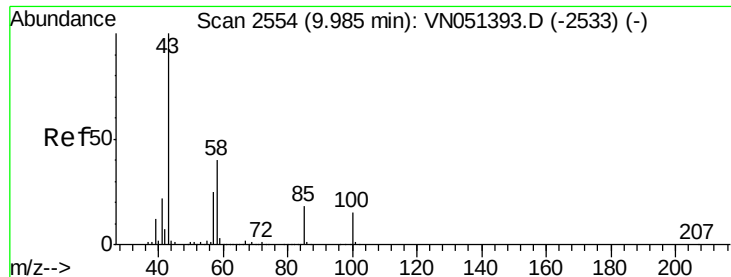
#50
Toluene-d8
Concen: 46.572 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051418.D
Acq: 23 Sep 2018 17:15

Tgt Ion: 98 Resp: 1420279
Ion Ratio Lower Upper
98 100
100 63.3 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VNO
Ion 100.00 (99.70 to 100.70): VNO

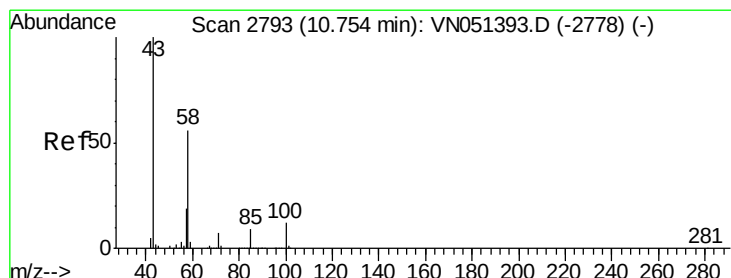
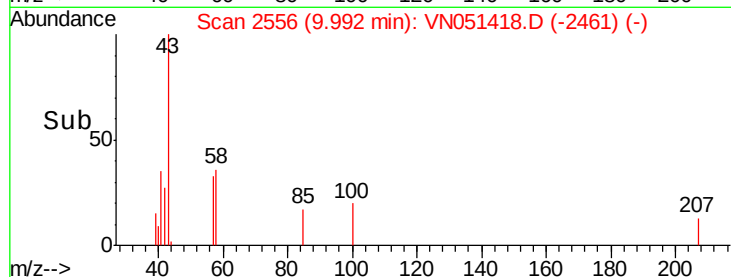
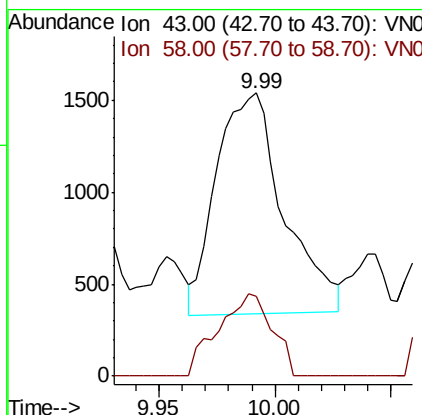
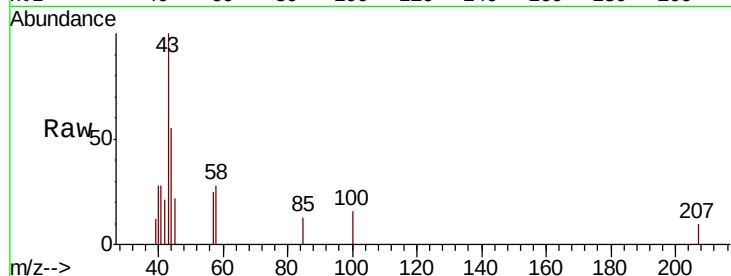




#51
 4-Methyl-2-Pentanone
 Concen: 0.360 ug/l
 RT: 9.99 min Scan# 2556
 Delta R.T. 0.01 min
 Lab File: VN051418.D
 Acq: 23 Sep 2018 17:15

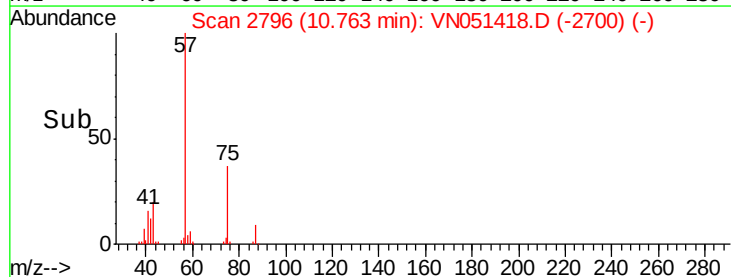
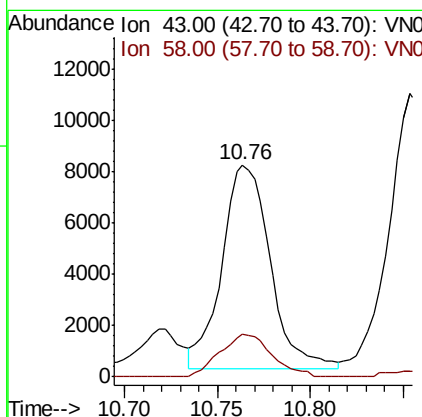
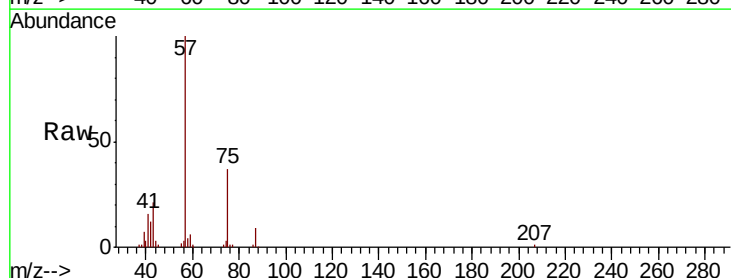
Instrument :
 MSVOA_N
 ClientSampled :
 LS-SOIL-C

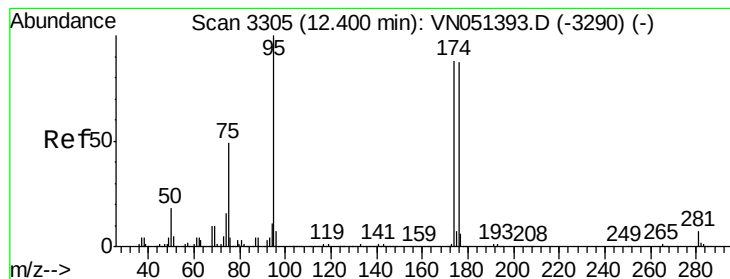
Tgt Ion: 43 Resp: 2412
 Ion Ratio Lower Upper
 43 100
 58 29.8 31.5 47.3#



#59
 2-Hexanone
 Concen: 3.309 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN051418.D
 Acq: 23 Sep 2018 17:15

Tgt Ion: 43 Resp: 14387
 Ion Ratio Lower Upper
 43 100
 58 22.6 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 40.526 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN051418.D

Acq: 23 Sep 2018 17:15

Instrument :

MSVOA_N

ClientSampleId :

LS-SOIL-C

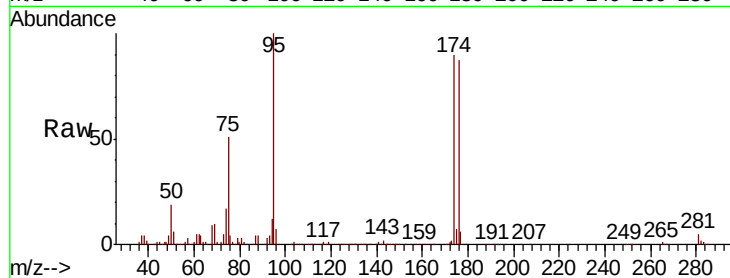
Tgt Ion: 95 Resp: 399807

Ion Ratio Lower Upper

95 100

174 92.3 0.0 181.6

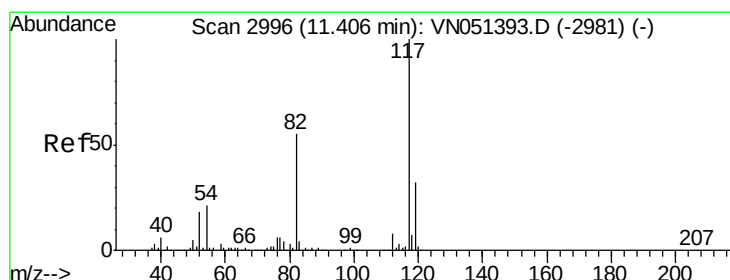
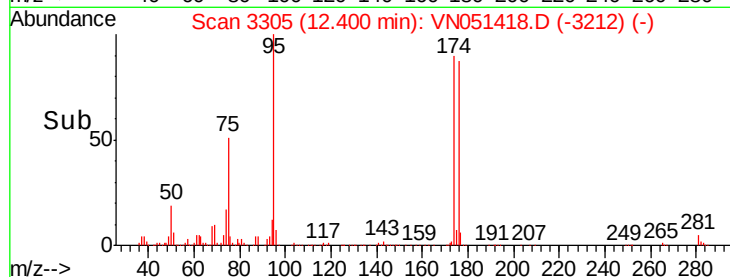
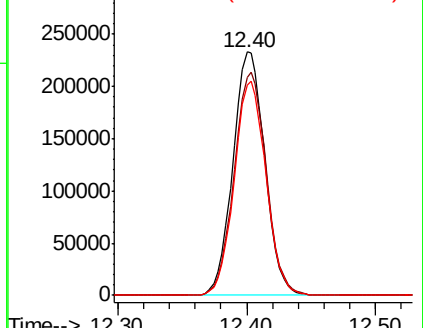
176 87.7 0.0 176.4



Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN051418.D

Acq: 23 Sep 2018 17:15

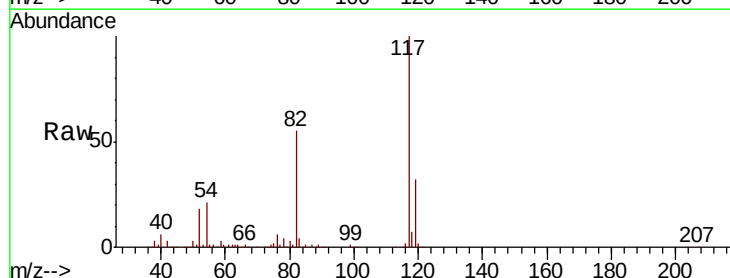
Tgt Ion: 117 Resp: 863704

Ion Ratio Lower Upper

117 100

82 55.0 44.2 66.2

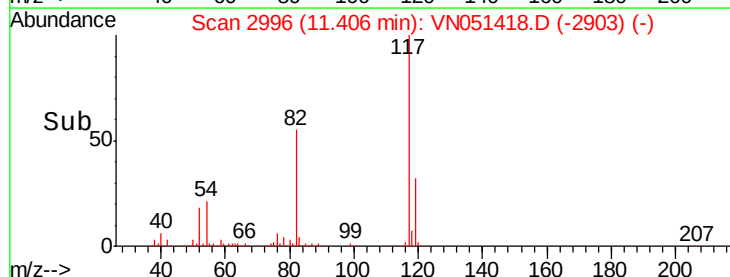
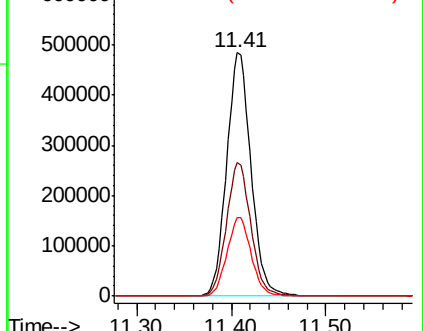
119 32.1 25.9 38.9

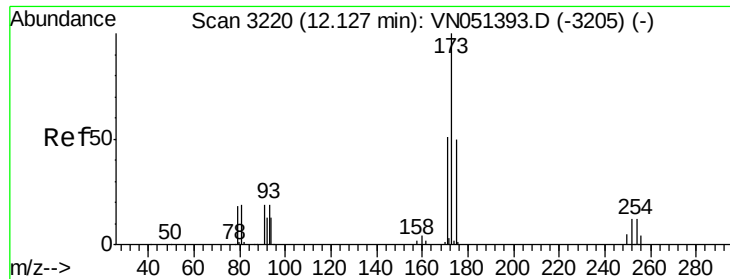


Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)





#71

Bromoform

Concen: 0.566 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051418.D

Acq: 23 Sep 2018 17:15

Instrument :

MSVOA_N

ClientSampleId :

LS-SOIL-C

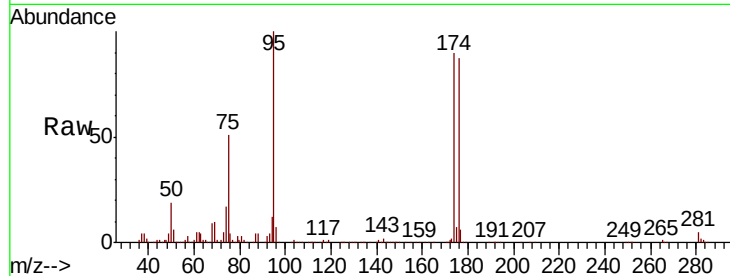
Tgt Ion:173 Resp: 3243

Ion Ratio Lower Upper

173 100

175 747.2 24.8 74.3#

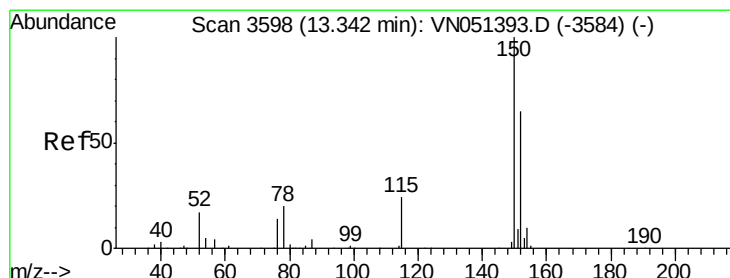
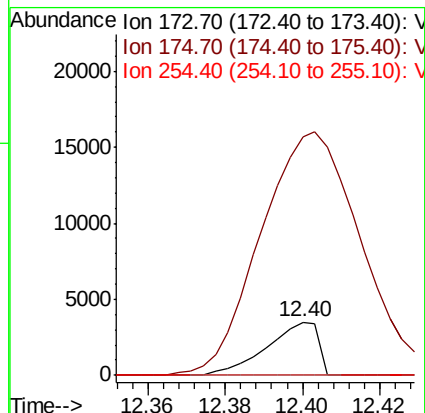
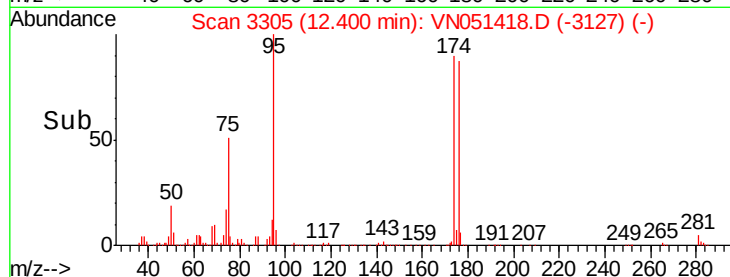
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN051418.D

Acq: 23 Sep 2018 17:15

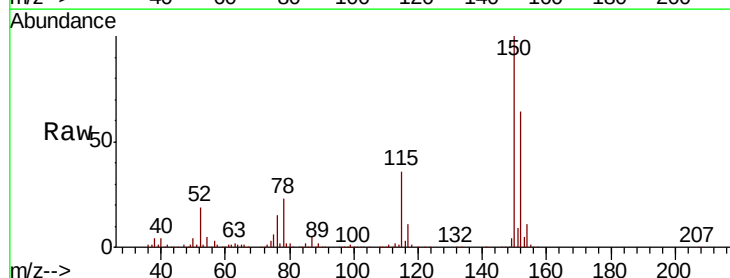
Tgt Ion:152 Resp: 338891

Ion Ratio Lower Upper

152 100

115 55.7 28.3 84.9

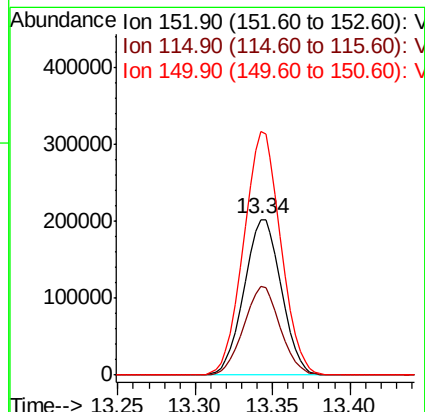
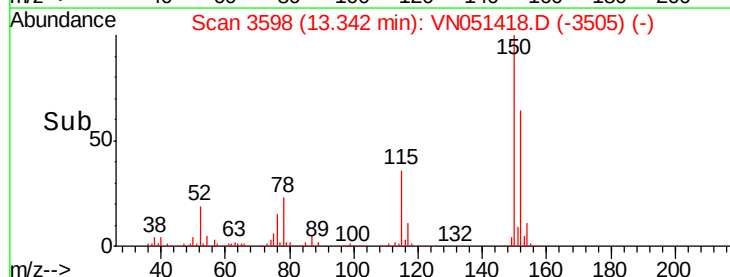
150 155.3 0.0 353.6

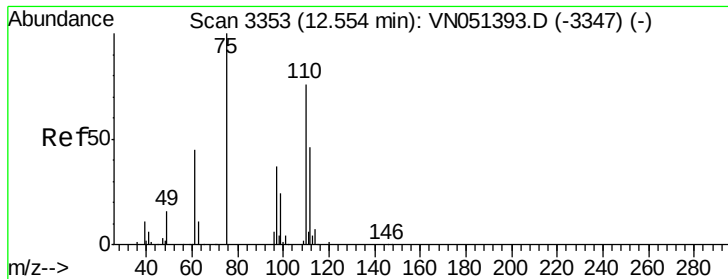


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 35.811 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051418.D

Acq: 23 Sep 2018 17:15

Instrument :

MSVOA_N

ClientSampled :

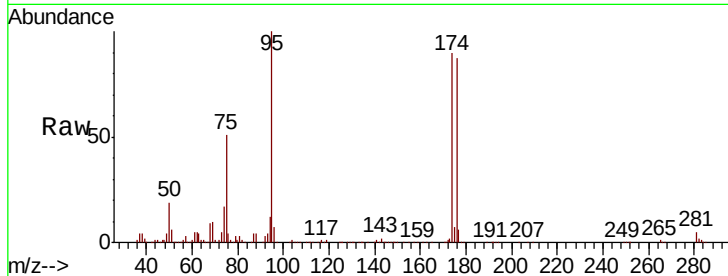
LS-SOIL-C

Tgt Ion: 75 Resp: 201464

Ion Ratio Lower Upper

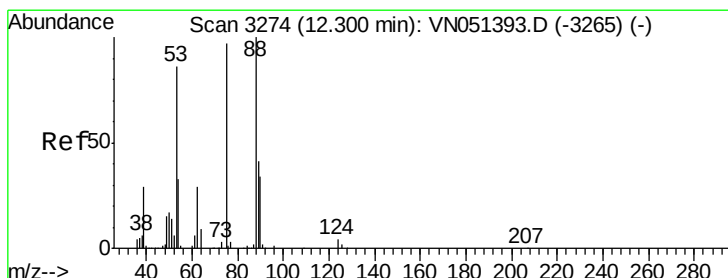
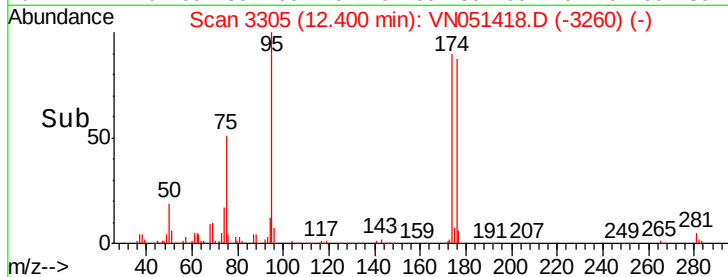
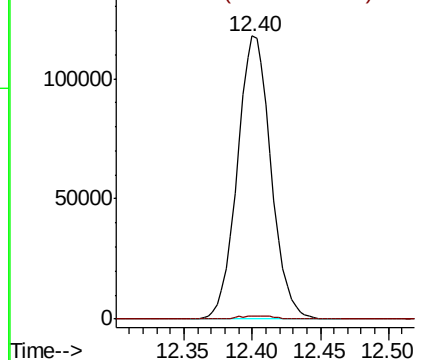
75 100

77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 110.115 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051418.D

Acq: 23 Sep 2018 17:15

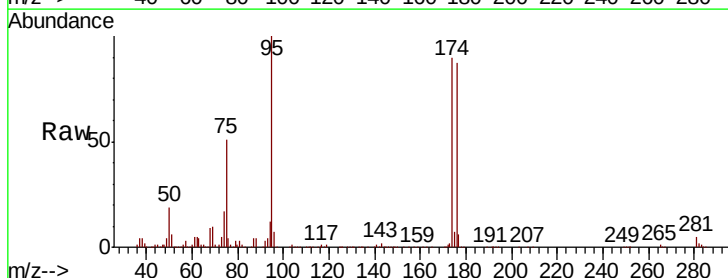
Tgt Ion: 75 Resp: 201464

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

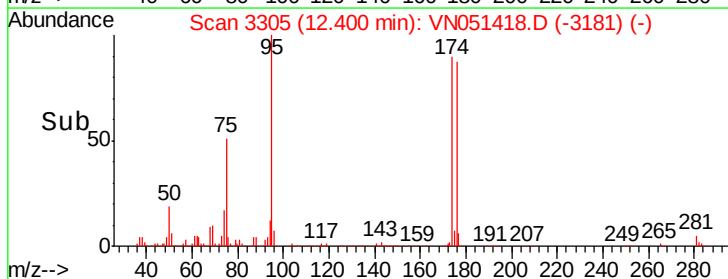
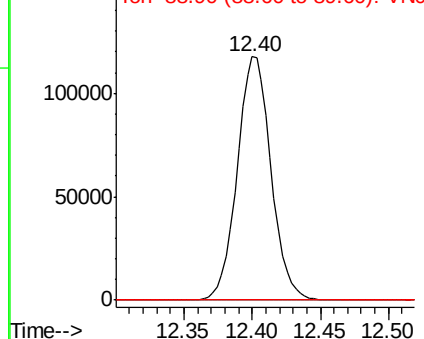
89 0.0 36.7 55.1#

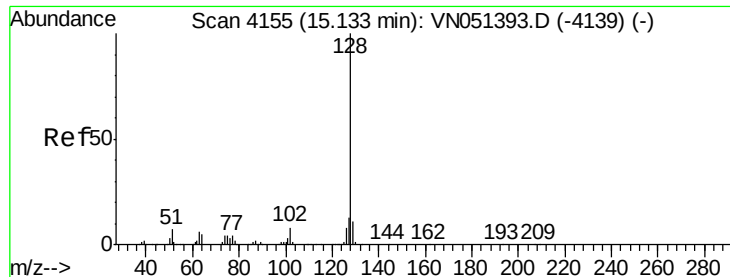


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 11.810 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051418.D

Acq: 23 Sep 2018 17:15

Instrument :

MSVOA_N

ClientSampleId :

LS-SOIL-C

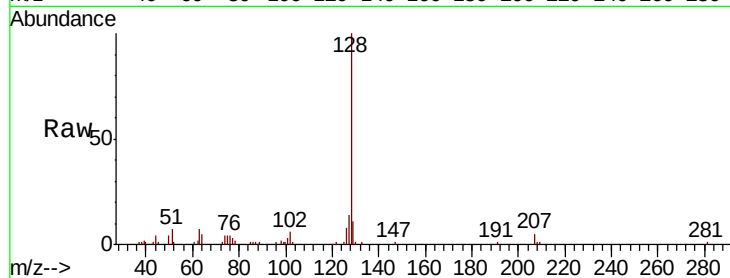
Tgt Ion:128 Resp: 56552

Ion Ratio Lower Upper

128 100

127 13.7 10.5 15.7

129 11.4 8.6 12.8



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

