

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072018\
 Data File : VN049979.D
 Acq On : 20 Jul 2018 22:25
 Operator : MD\SY
 Sample : J4057-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LS-SOIL-3

Quant Time: Jul 20 23:51:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 19 01:58:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	528909	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	929321	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	773154	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	284972	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	393424	54.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.24%	
35) Dibromofluoromethane	7.59	113	343168	43.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.98%	
50) Toluene-d8	10.09	98	1230927	43.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.60%	
62) 4-Bromofluorobenzene	12.40	95	339818	34.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	69.42%	

Target Compounds

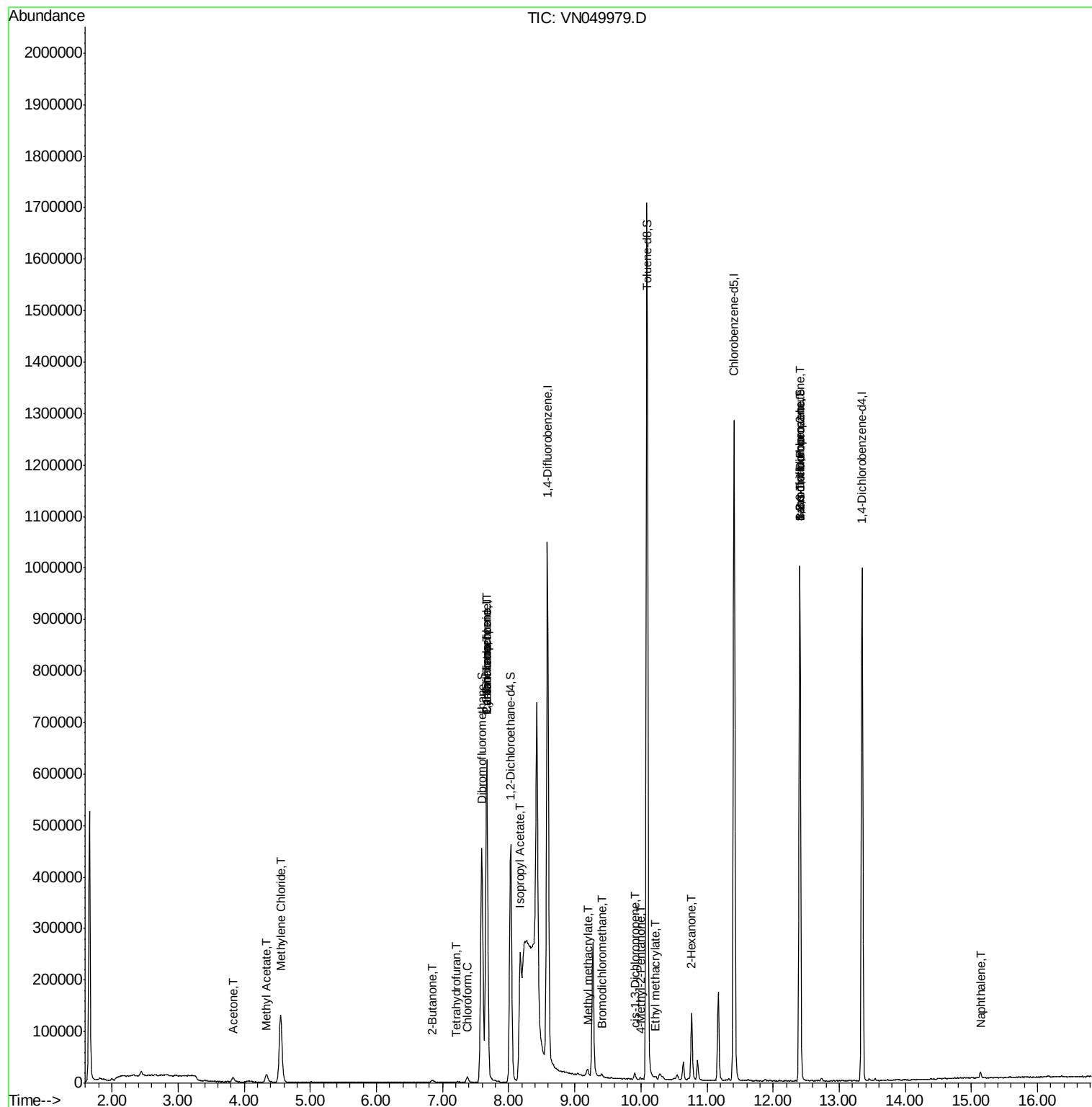
						Qvalue
5) Bromomethane	2.56	94	130	Below Cal		97
16) Acetone	3.83	43	13232	7.03 ug/l	#	88
18) Methyl Acetate	4.34	43	28302	4.03 ug/l		95
20) Methylene Chloride	4.55	84	99031	13.84 ug/l		97
25) 2-Butanone	6.85	43	4013	1.49 ug/l		93
29) Tetrahydrofuran	7.21	42	496	0.29 ug/l	#	42
30) Chloroform	7.37	83	10797	0.89 ug/l		99
31) Cyclohexane	7.66	56	10155	1.05 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	39025	3.78 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	48691	4.40 ug/l	#	17
43) Isopropyl Acetate	8.17	43	289584	23.36 ug/l	#	93
47) Bromodichloromethane	9.40	83	3846	0.35 ug/l	#	98
48) Methyl methacrylate	9.18	41	7639	1.23 ug/l	#	21
51) 4-Methyl-2-Pentanone	9.99	43	1920	0.28 ug/l		87
54) cis-1,3-Dichloropropene	9.90	75	2547	0.21 ug/l	#	67
56) Ethyl methacrylate	10.23	69	2509	2.39 ug/l	#	33
59) 2-Hexanone	10.77	43	17687	3.80 ug/l	#	57
71) Bromoform	12.41	173	2156	0.40 ug/l	#	1
76) 1,2,3-Trichloropropane	12.40	75	166499	31.15 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166499	97.39 ug/l	#	13
95) Naphthalene	15.14	128	9105	5.11 ug/l		98

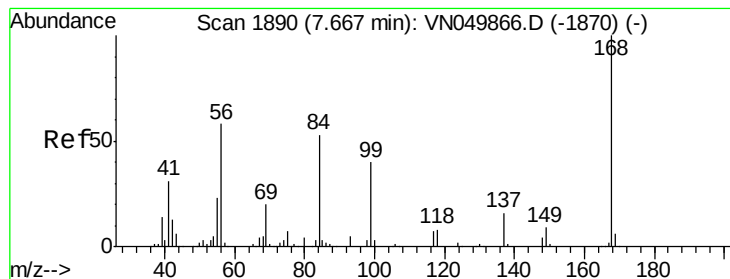
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Jul 19 01:58:39 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049979.D

Acq: 20 Jul 2018 22:25

Instrument :

MSVOA_N

ClientSampled :

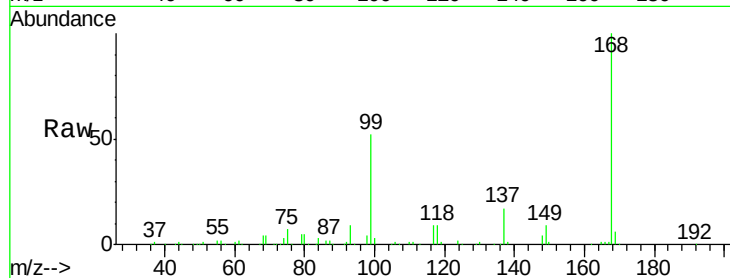
LS-SOIL-3

Tot Ion:168 Resp: 528909

Ion Ratio Lower Upper

168 100

99 52.4 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

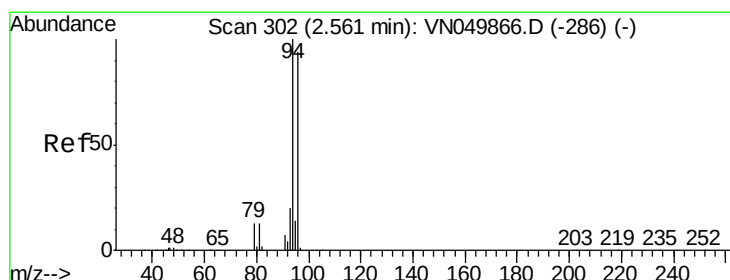
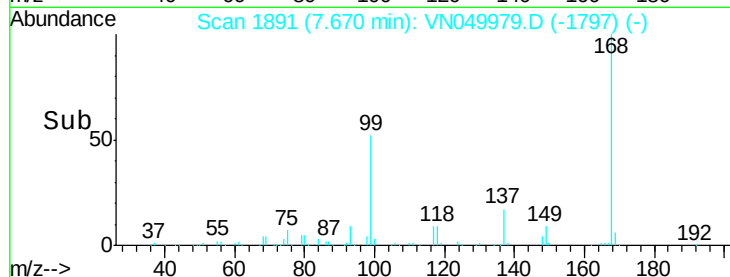
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 302

Delta R.T. 0.00 min

Lab File: VN049979.D

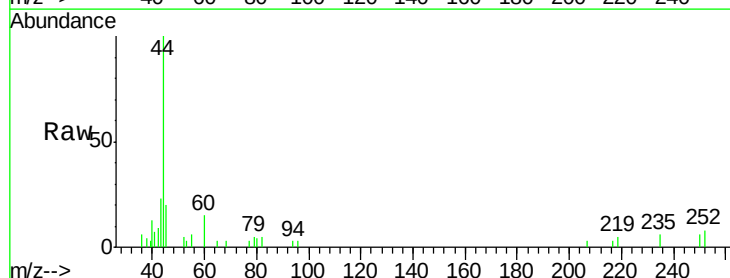
Acq: 20 Jul 2018 22:25

Tgt Ion: 94 Resp: 130

Ion Ratio Lower Upper

94 100

96 97.8 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

300

250

200

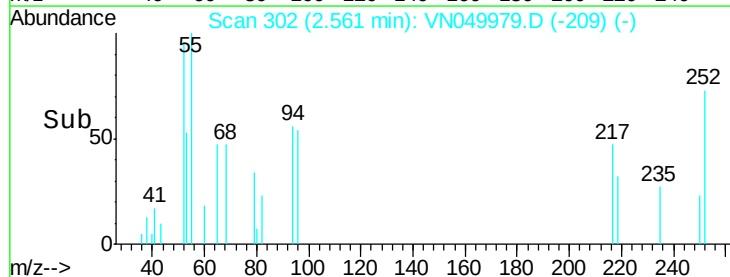
150

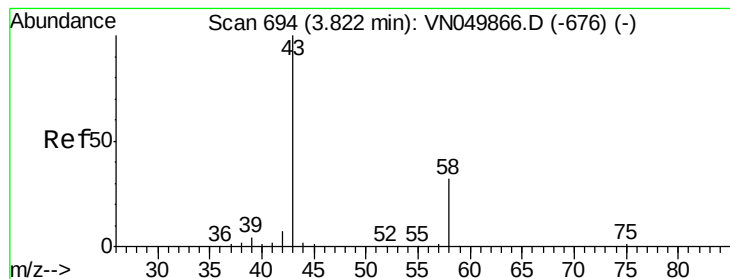
100

50

0

Time--> 2.55 2.56 2.57





#16

Acetone

Concen: 7.03 ug/l

RT: 3.83 min Scan# 698

Delta R.T. 0.01 min

Lab File: VN049979.D

Acq: 20 Jul 2018 22:25

Instrument :

MSVOA_N

ClientSampled :

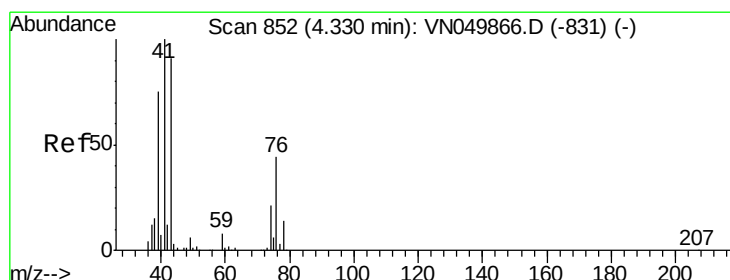
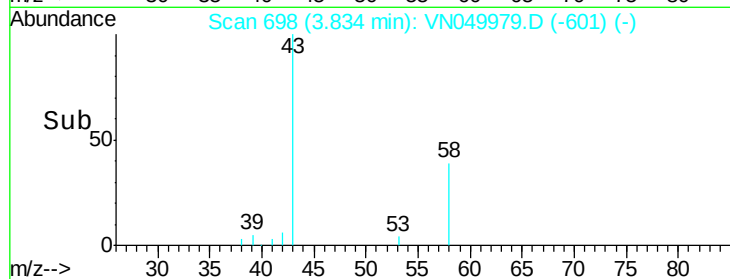
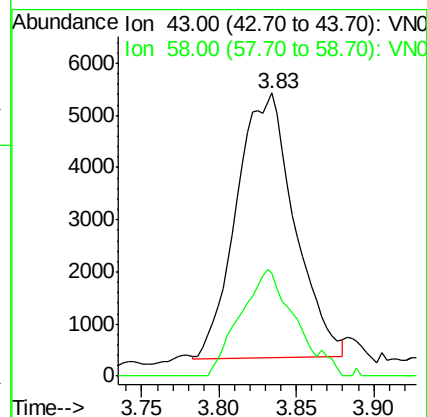
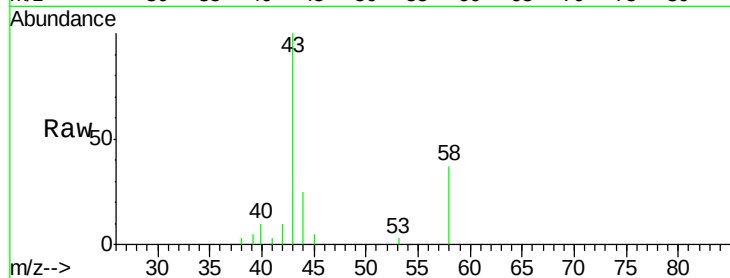
LS-SOIL-3

Tot Ion: 43 Resp: 13232

Ion Ratio Lower Upper

43 100

58 39.2 25.9 38.9#



#18

Methyl Acetate

Concen: 4.03 ug/l

RT: 4.34 min Scan# 855

Delta R.T. 0.01 min

Lab File: VN049979.D

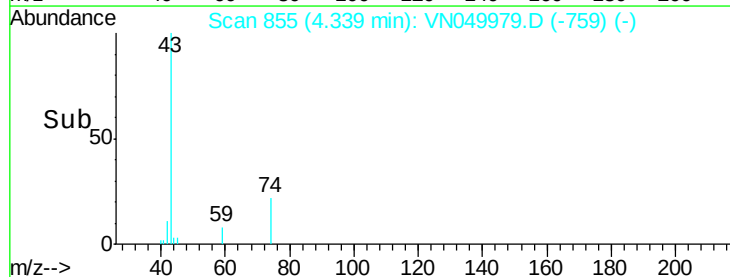
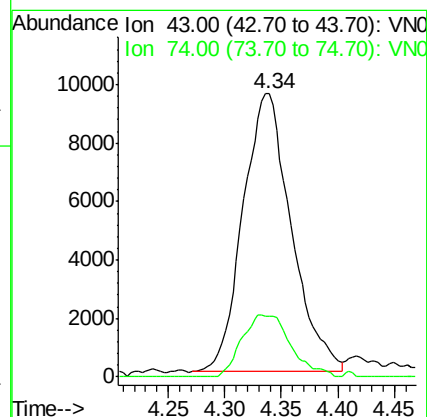
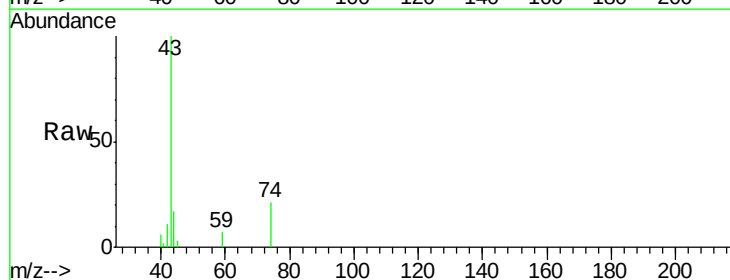
Acq: 20 Jul 2018 22:25

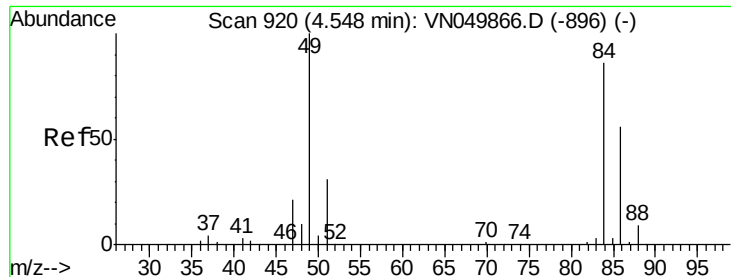
Tgt Ion: 43 Resp: 28302

Ion Ratio Lower Upper

43 100

74 22.5 19.8 29.8

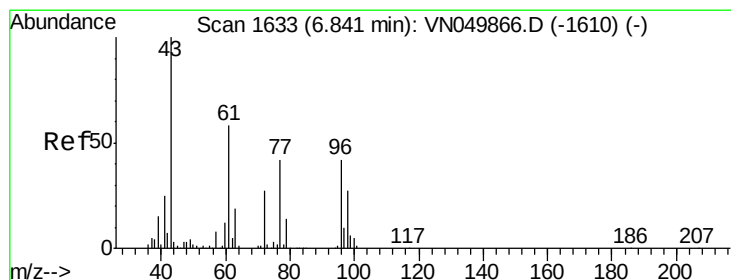
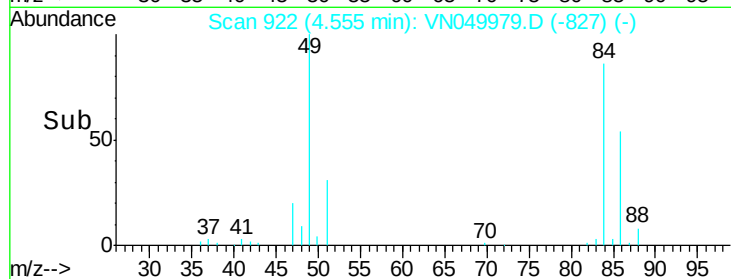
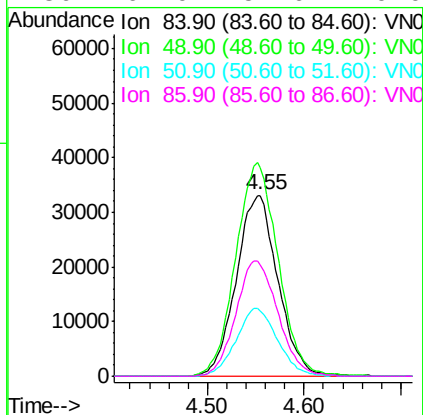
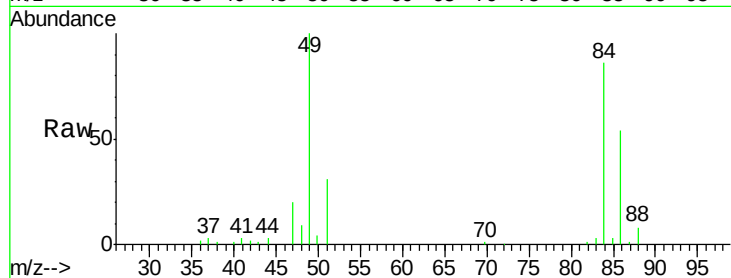




#20
Methvlene Chloride
Concen: 13.84 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.01 min
Lab File: VN049979.D
Acq: 20 Jul 2018 22:25

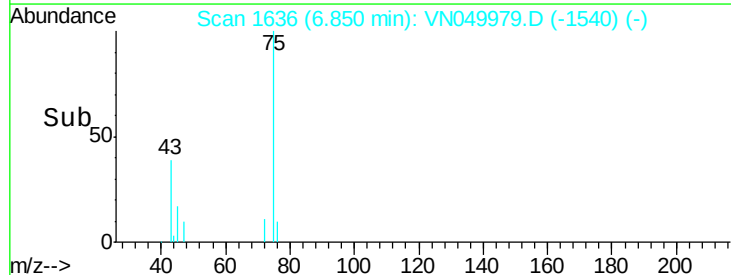
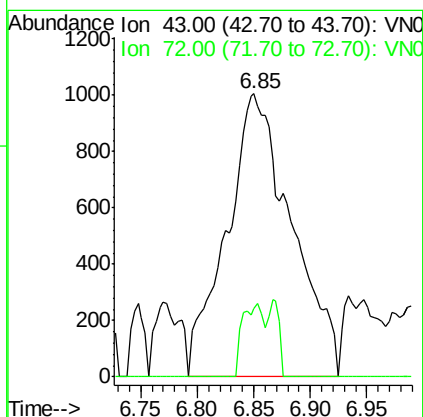
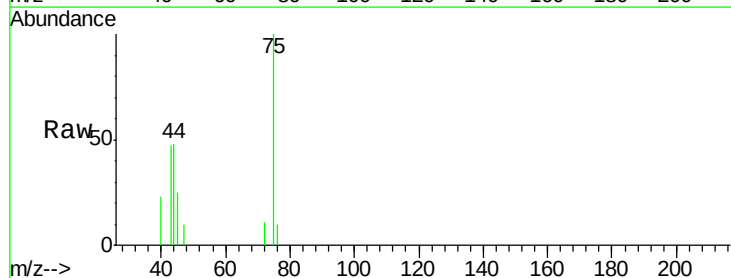
Instrument :
MSVOA_N
ClientSampled :
LS-SOIL-3

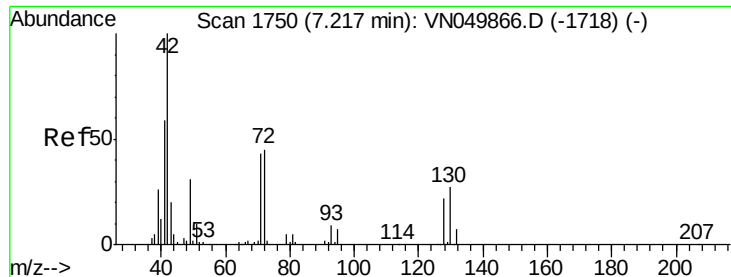
Tot Ion: 84 Resp: 99031
Ion Ratio Lower Upper
84 100
49 115.8 95.4 143.2
51 36.2 28.4 42.6
86 62.0 52.6 79.0



#25
2-Butanone
Concen: 1.49 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN049979.D
Acq: 20 Jul 2018 22:25

Tgt Ion: 43 Resp: 4013
Ion Ratio Lower Upper
43 100
72 24.0 22.1 33.1





#29

Tetrahydrofuran

Concen: 0.29 ug/l

RT: 7.21 min Scan# 1748

Delta R.T. -0.01 min

Lab File: VN049979.D

Acq: 20 Jul 2018 22:25

Instrument :

MSVOA_N

ClientSampled :

LS-SOIL-3

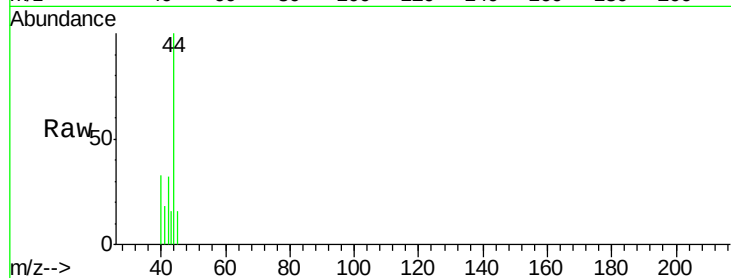
Tot Ion: 42 Resp: 496

Ion Ratio Lower Upper

42 100

72 0.0 35.6 53.4#

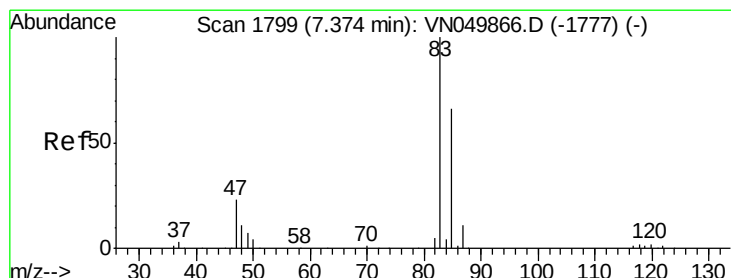
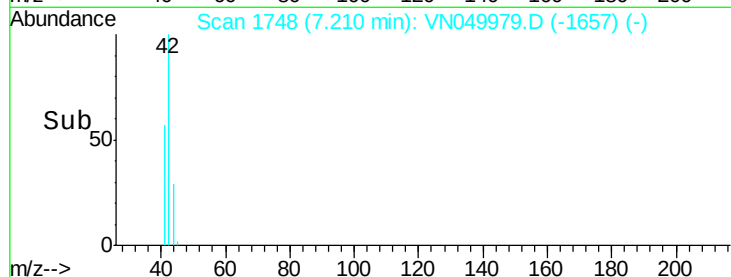
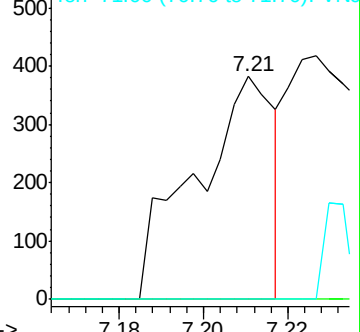
71 12.7 34.0 51.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#30

Chloroform

Concen: 0.89 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN049979.D

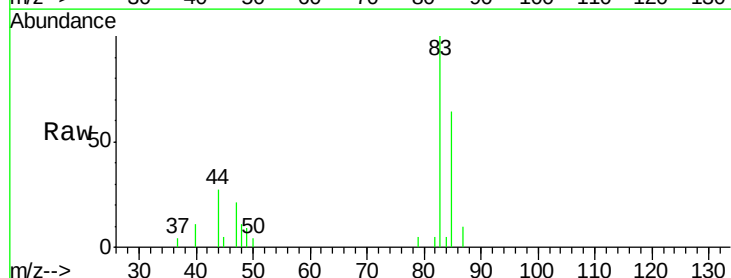
Acq: 20 Jul 2018 22:25

Tgt Ion: 83 Resp: 10797

Ion Ratio Lower Upper

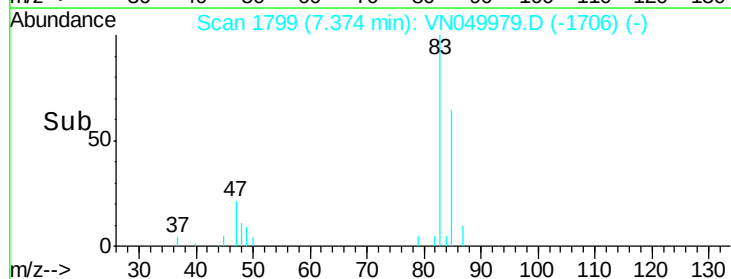
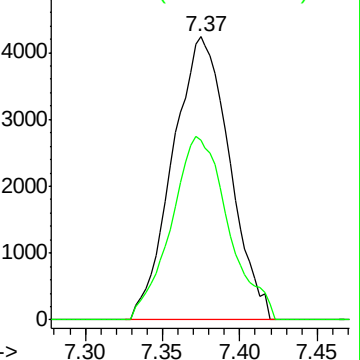
83 100

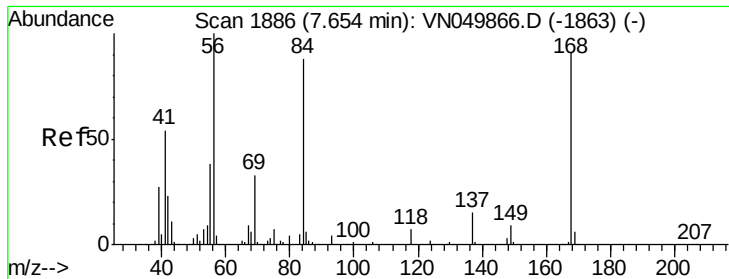
85 63.6 51.4 77.2



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 1.05 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN049979.D

Acq: 20 Jul 2018 22:25

Instrument :

MSVOA_N

ClientSampled :

LS-SOIL-3

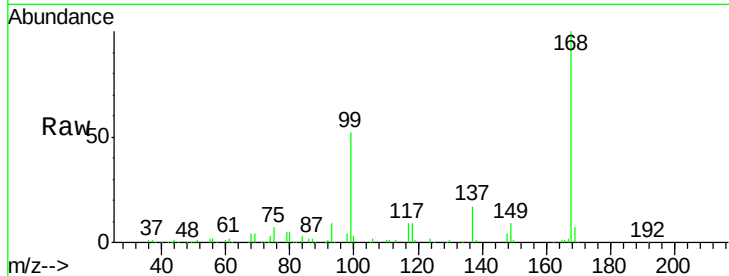
Tot Ion: 56 Resp: 10155

Ion Ratio Lower Upper

56 100

69 190.2 26.6 40.0#

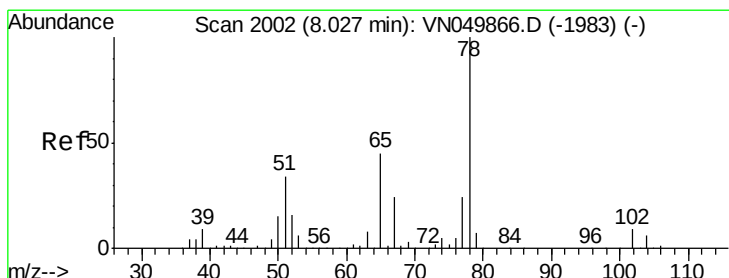
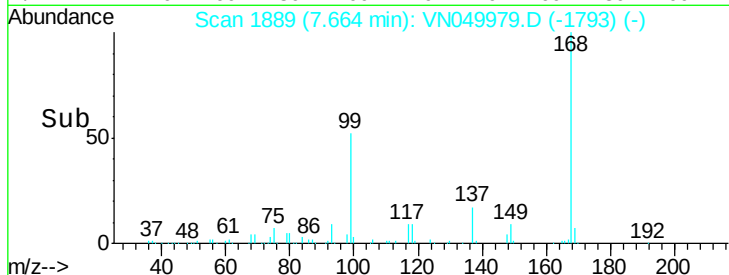
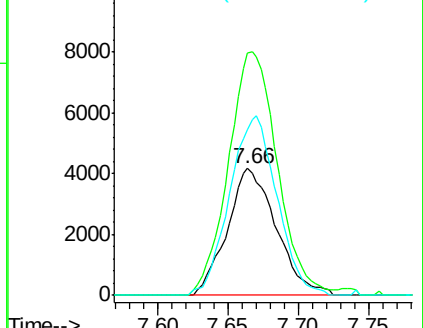
84 129.9 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VN049866.D (-1863) (-)

Ion 69.00 (68.70 to 69.70): VN049866.D (-1863) (-)

Ion 84.00 (83.70 to 84.70): VN049866.D (-1863) (-)



#33

1,2-Dichloroethane-d4

Concen: 54.12 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049979.D

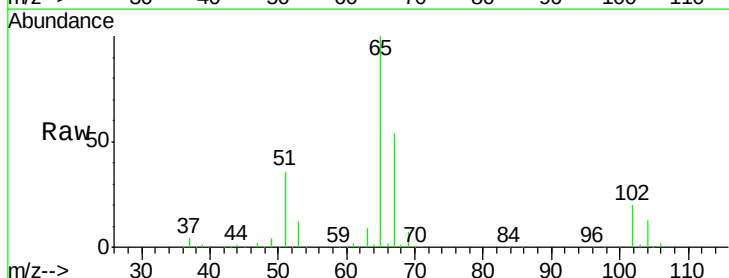
Acq: 20 Jul 2018 22:25

Tgt Ion: 65 Resp: 393424

Ion Ratio Lower Upper

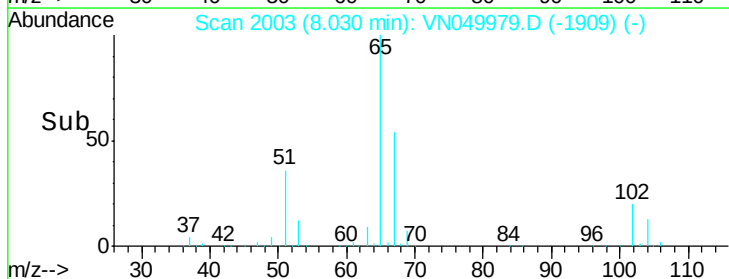
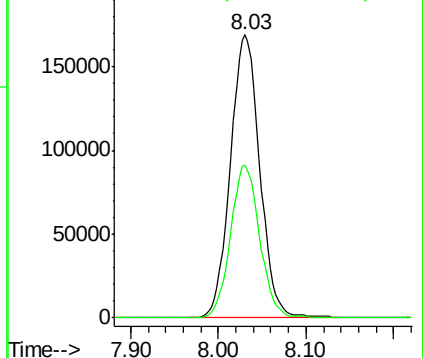
65 100

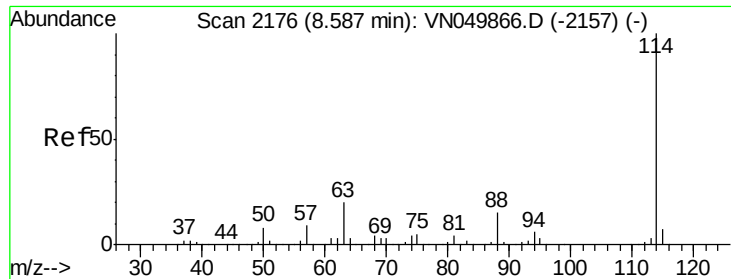
67 53.5 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049866.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN049866.D (-1983) (-)

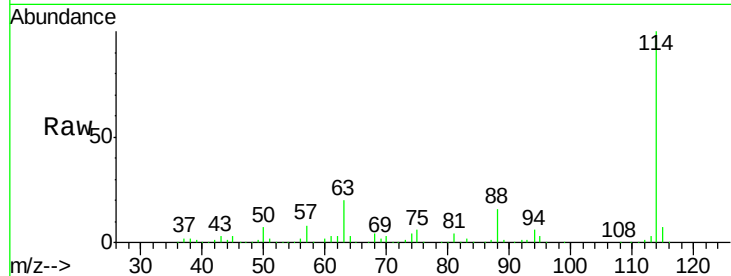




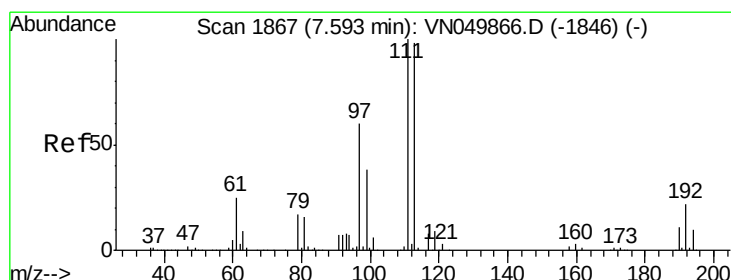
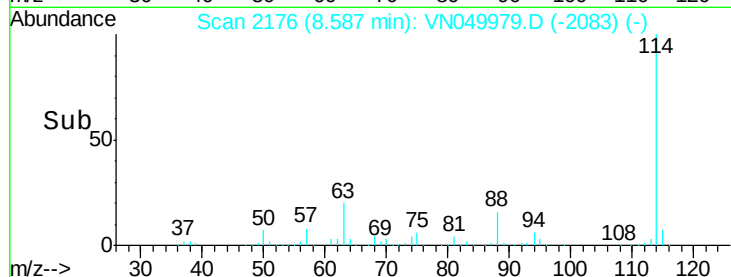
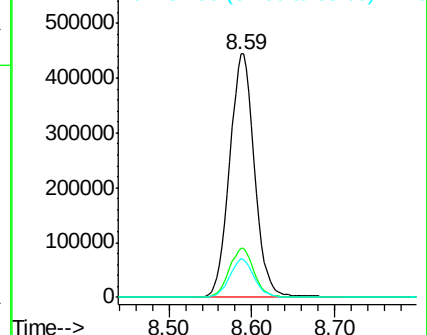
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049979.D
 Acq: 20 Jul 2018 22:25

Instrument :
 MSVOA_N
 ClientSampleId :
 LS-SOIL-3

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.0	0.0	39.8
88	15.7	0.0	30.6

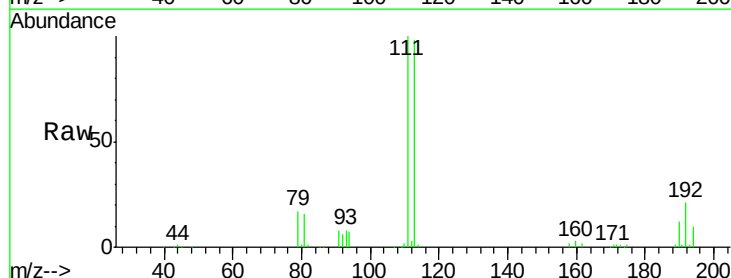


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

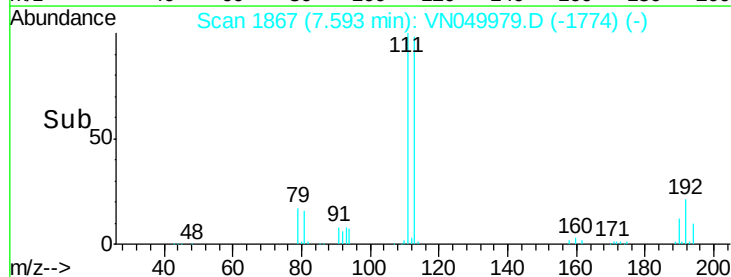
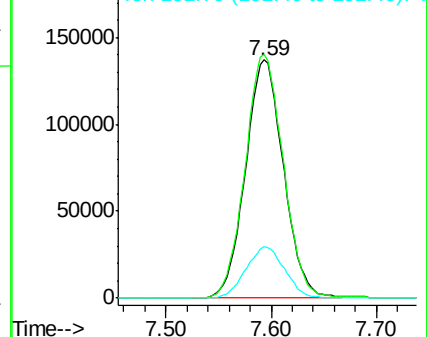


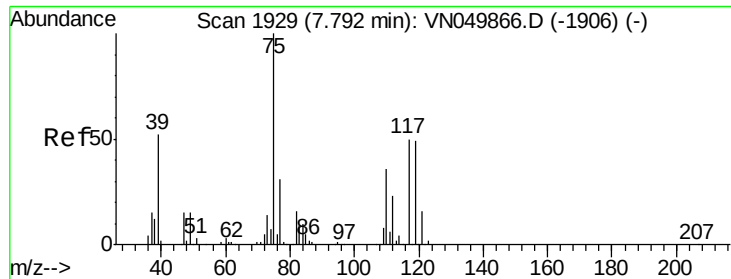
#35
 Dibromofluoromethane
 Concen: 43.99 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049979.D
 Acq: 20 Jul 2018 22:25

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.3	81.8	122.8
192	22.0	17.8	26.6



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

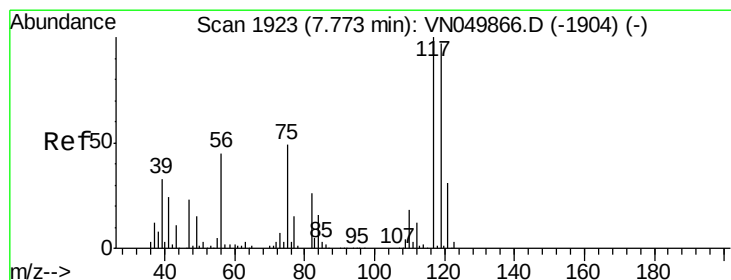
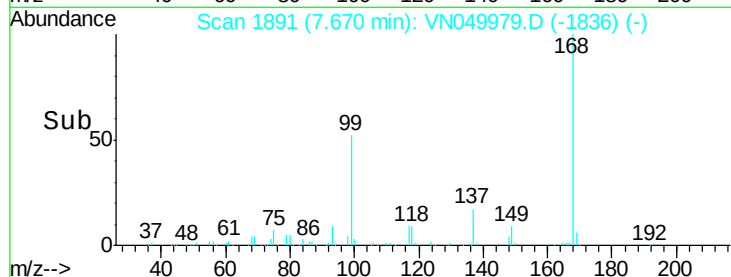
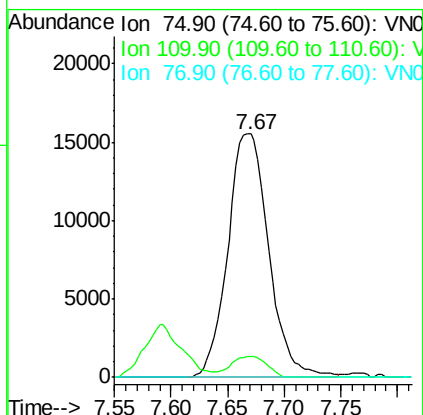
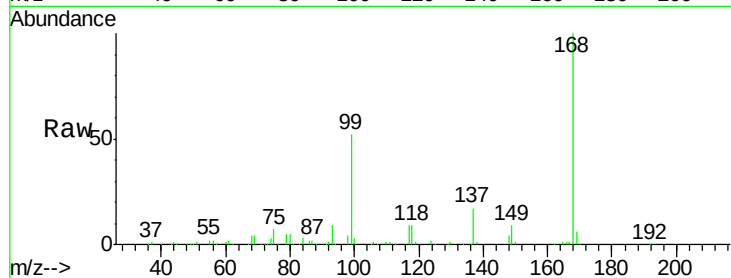




#36
 1,1-Dichloropropene
 Concen: 3.78 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN049979.D
 Acq: 20 Jul 2018 22:25

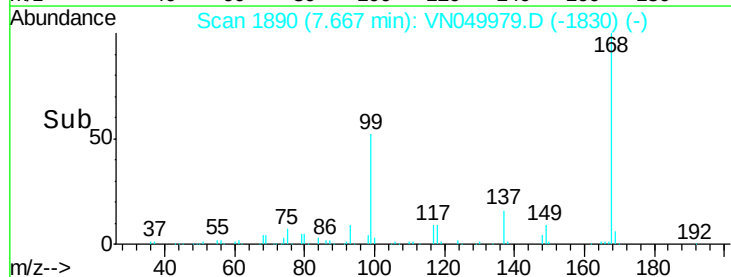
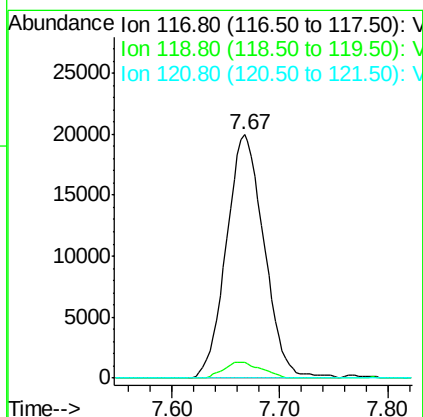
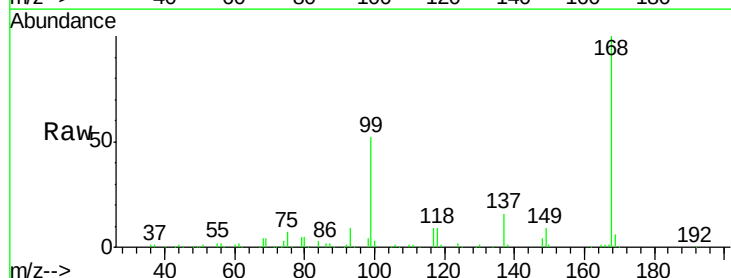
Instrument :
 MSVOA_N
 ClientSampled :
 LS-SOIL-3

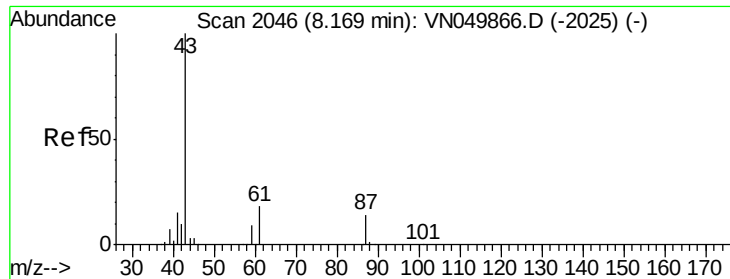
Tot Ion	75	Resp	39025
Ion Ratio	Lower	Upper	
75	100		
110	7.7	18.1	54.4#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 4.40 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN049979.D
 Acq: 20 Jul 2018 22:25

Tgt Ion	117	Resp	48691
Ion Ratio	Lower	Upper	
117	100		
119	6.5	77.2	115.8#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 23.36 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.00 min

Lab File: VN049979.D

Acq: 20 Jul 2018 22:25

Instrument :

MSVOA_N

ClientSampled :

LS-SOIL-3

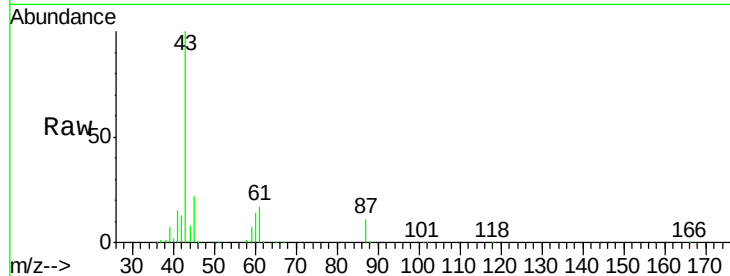
Tot Ion: 43 Resp: 289584

Ion Ratio Lower Upper

43 100

61 15.2 14.9 22.3

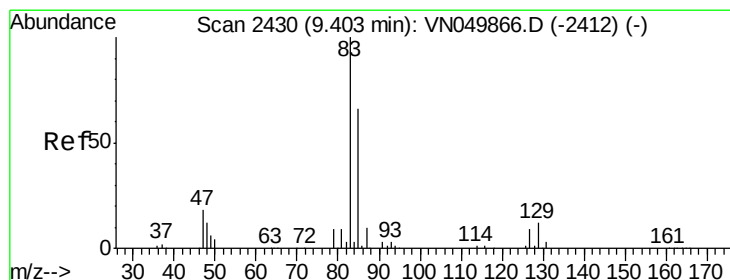
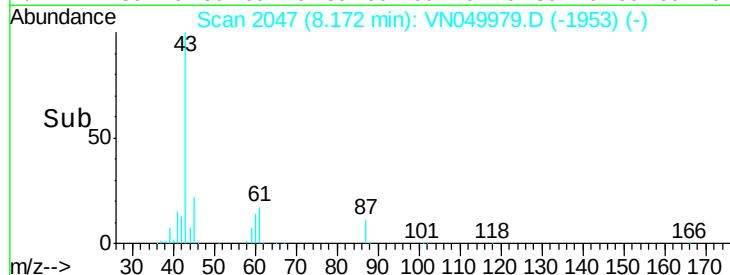
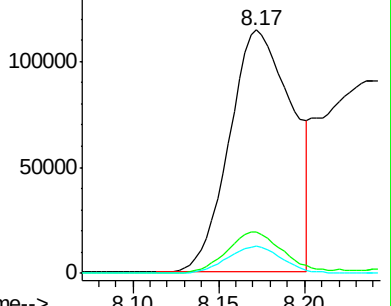
87 9.9 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): VN049979.D (-1953) (-)

Ion 61.00 (60.70 to 61.70): VN049979.D (-1953) (-)

Ion 87.00 (86.70 to 87.70): VN049979.D (-1953) (-)



#47

Bromodichloromethane

Concen: 0.35 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN049979.D

Acq: 20 Jul 2018 22:25

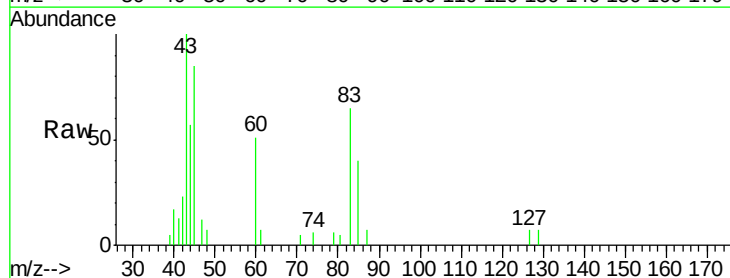
Tgt Ion: 83 Resp: 3846

Ion Ratio Lower Upper

83 100

85 61.7 50.5 75.7

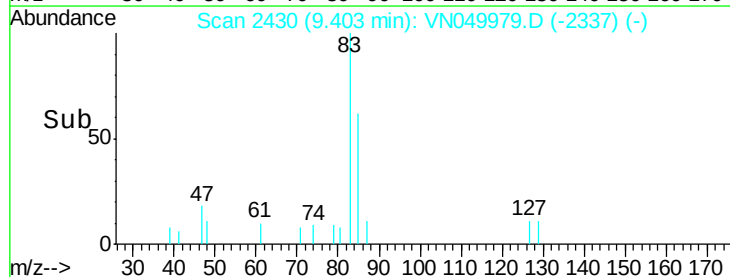
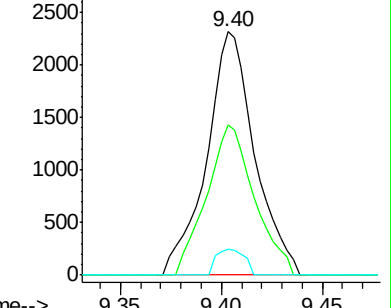
127 10.7 6.8 10.2#

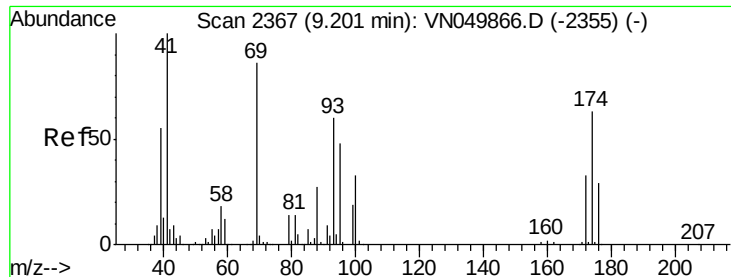


Abundance Ion 82.90 (82.60 to 83.60): VN049979.D (-2337) (-)

Ion 84.90 (84.60 to 85.60): VN049979.D (-2337) (-)

Ion 126.80 (126.50 to 127.50): VN049979.D (-2337) (-)





#48

Methvl methacrylate

Concen: 1.23 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN049979.D

Acq: 20 Jul 2018 22:25

Instrument :

MSVOA_N

ClientSampled :

LS-SOIL-3

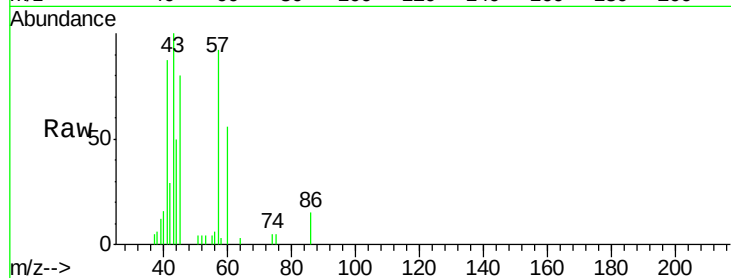
Tot Ion: 41 Resp: 7639

Ion Ratio Lower Upper

41 100

69 0.0 71.5 107.3#

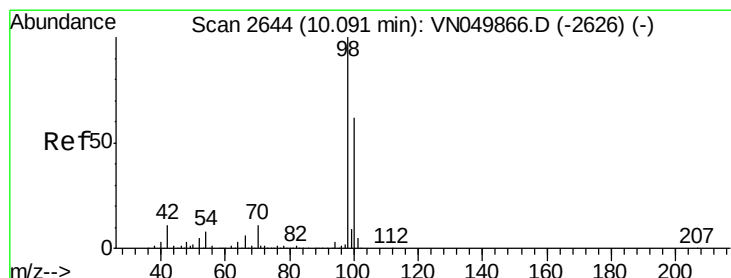
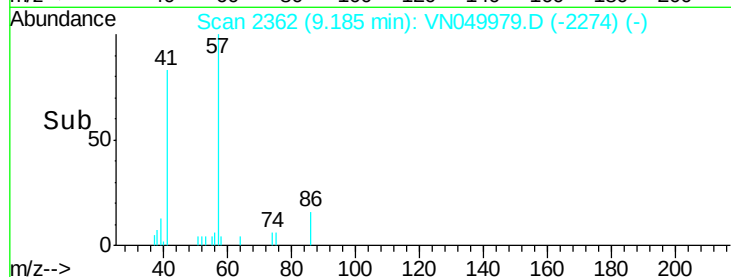
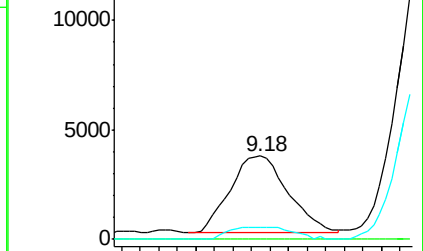
39 17.4 44.7 67.1#



Abundance Ion 41.00 (40.70 to 41.70): VN049866.D (-2355) (-)

Ion 69.00 (68.70 to 69.70): VN049866.D (-2355) (-)

Ion 39.00 (38.70 to 39.70): VN049866.D (-2355) (-)



#50

Toluene-d8

Concen: 43.30 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049979.D

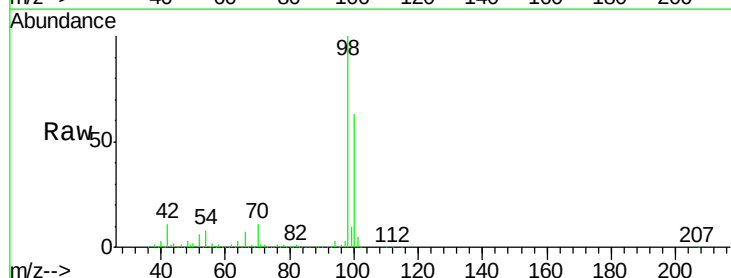
Acq: 20 Jul 2018 22:25

Tgt Ion: 98 Resp: 1230927

Ion Ratio Lower Upper

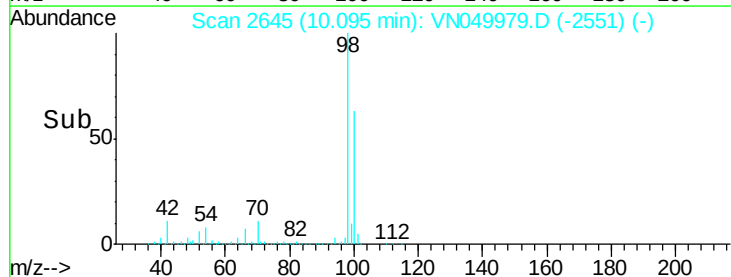
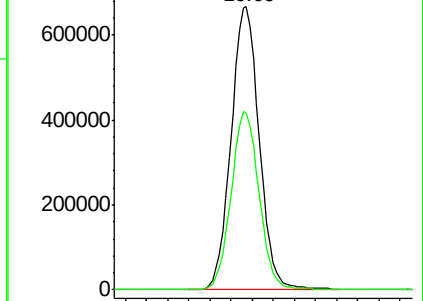
98 100

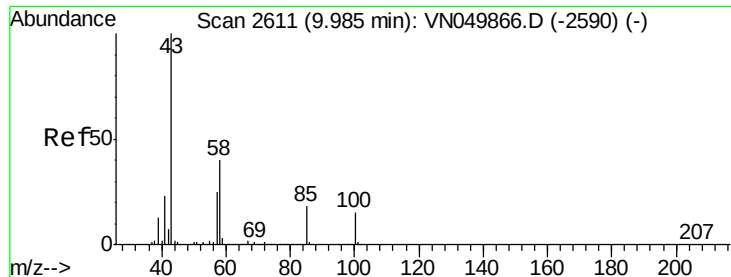
100 62.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN049866.D (-2626) (-)

Ion 100.00 (99.70 to 100.70): VN049866.D (-2626) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.28 ug/l

RT: 9.99 min Scan# 2614

Delta R.T. 0.01 min

Lab File: VN049979.D

Acq: 20 Jul 2018 22:25

Instrument :

MSVOA_N

ClientSampled :

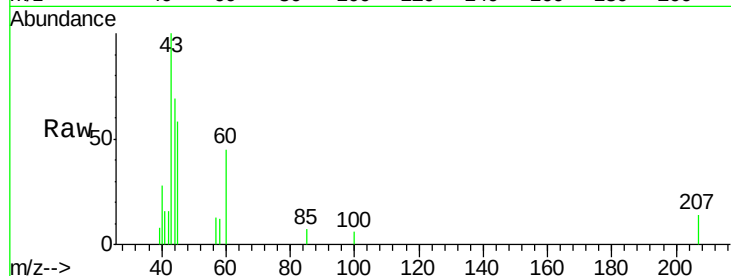
LS-SOIL-3

Tot Ion: 43 Resp: 1920

Ion Ratio Lower Upper

43 100

58 32.0 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

3000

2500

2000

1500

1000

500

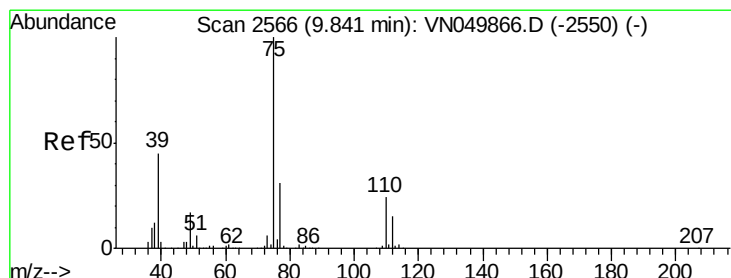
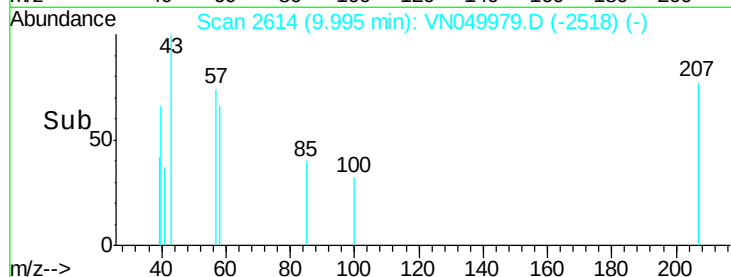
0

Time-->

9.95

10.00

9.95



#54

cis-1,3-Dichloropropene

Concen: 0.21 ug/l

RT: 9.90 min Scan# 2586

Delta R.T. 0.06 min

Lab File: VN049979.D

Acq: 20 Jul 2018 22:25

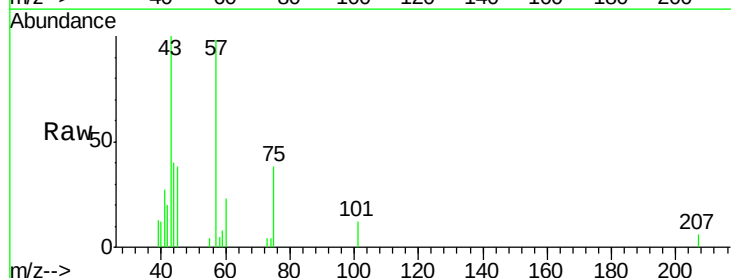
Tgt Ion: 75 Resp: 2547

Ion Ratio Lower Upper

75 100

77 0.0 25.3 37.9#

39 34.0 35.5 53.3#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.90

2000

1500

1000

500

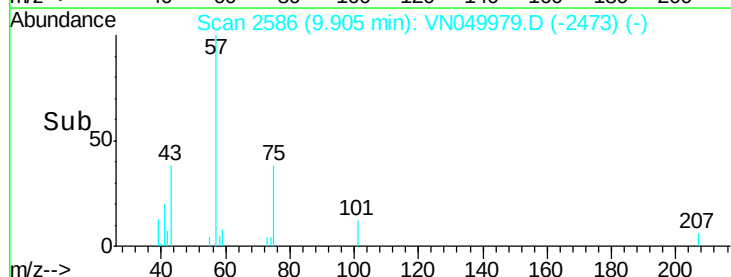
0

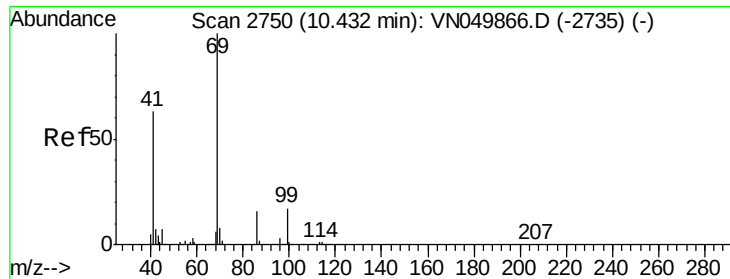
Time-->

9.85

9.90

9.95





#56

Ethyl methacrylate

Concen: 2.39 ug/l

RT: 10.23 min Scan# 2686

Delta R.T. -0.21 min

Lab File: VN049979.D

Acq: 20 Jul 2018 22:25

Instrument :

MSVOA_N

ClientSampled :

LS-SOIL-3

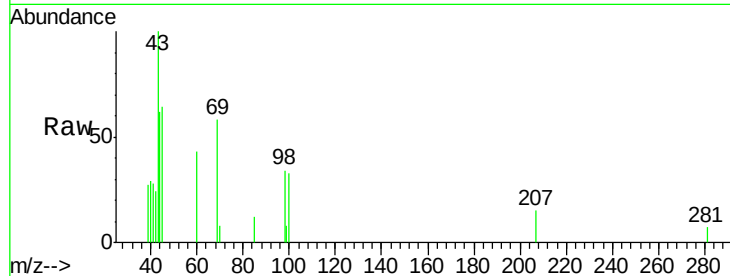
Tot Ion: 69 Resp: 2509

Ion Ratio Lower Upper

69 100

41 0.0 51.6 77.4#

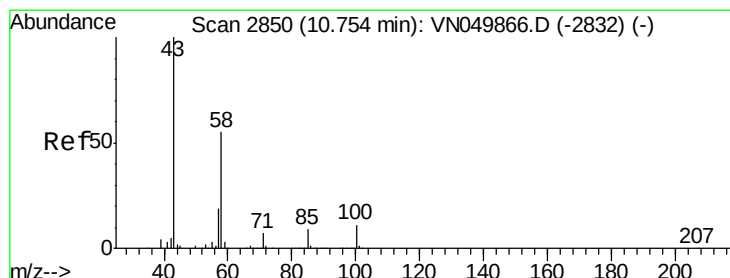
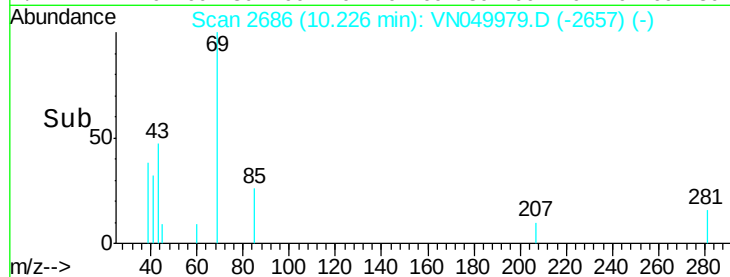
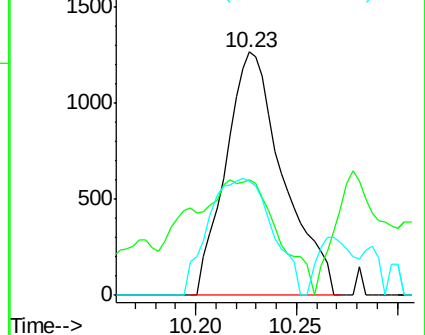
39 53.3 25.8 38.8#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 3.80 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049979.D

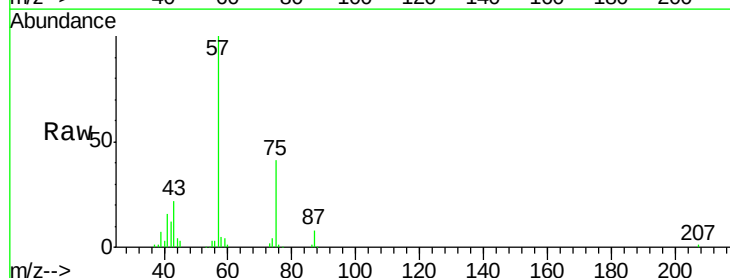
Acq: 20 Jul 2018 22:25

Tgt Ion: 43 Resp: 17687

Ion Ratio Lower Upper

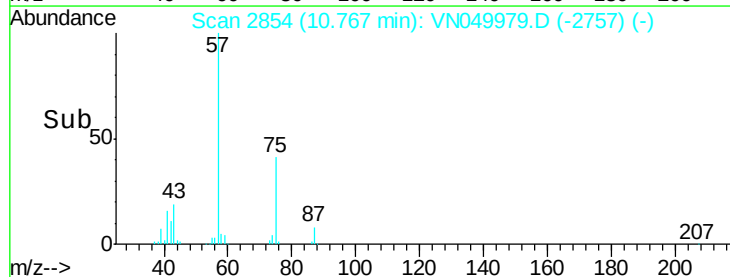
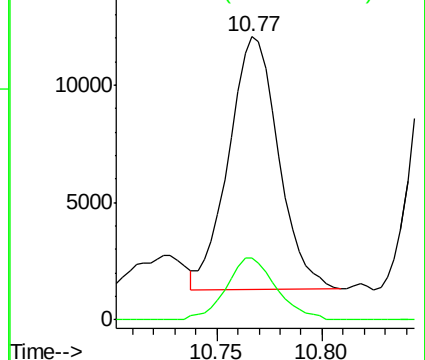
43 100

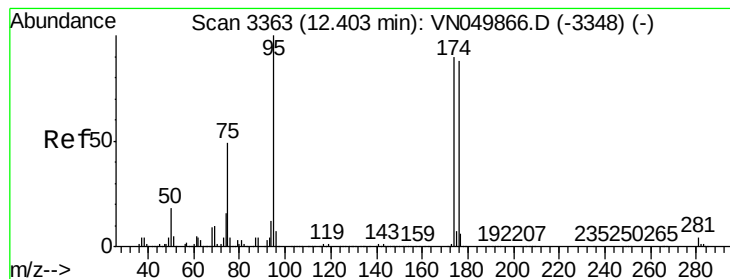
58 24.7 27.8 83.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 34.71 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049979.D

Acq: 20 Jul 2018 22:25

Instrument :

MSVOA_N

ClientSampleId :

LS-SOIL-3

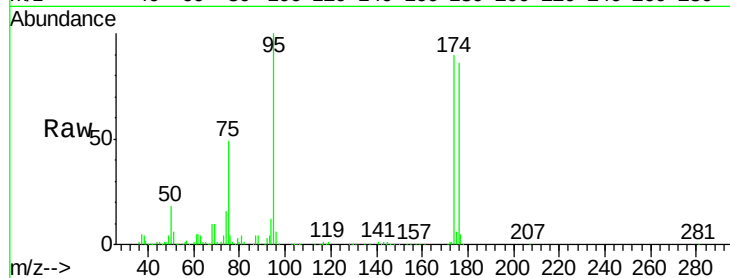
Tot Ion: 95 Resp: 339818

Ion Ratio Lower Upper

95 100

174 91.5 0.0 179.6

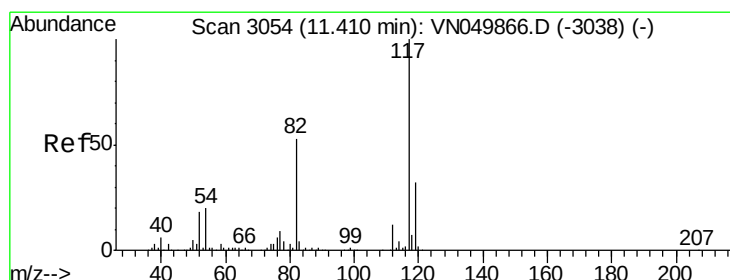
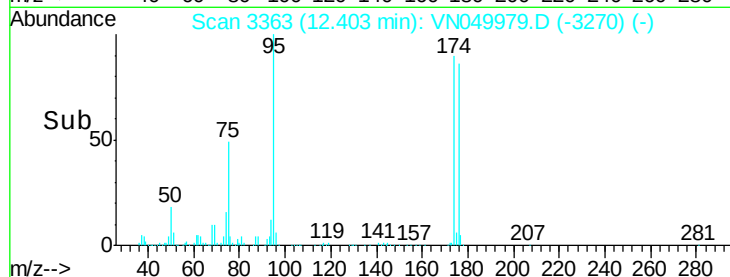
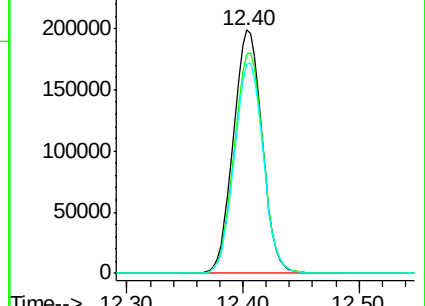
176 86.7 0.0 174.0



Abundance Ion 94.90 (94.60 to 95.60): VN049979.D (-3270) (-)

Ion 173.80 (173.50 to 174.50): VN049979.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN049979.D (-3270) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049979.D

Acq: 20 Jul 2018 22:25

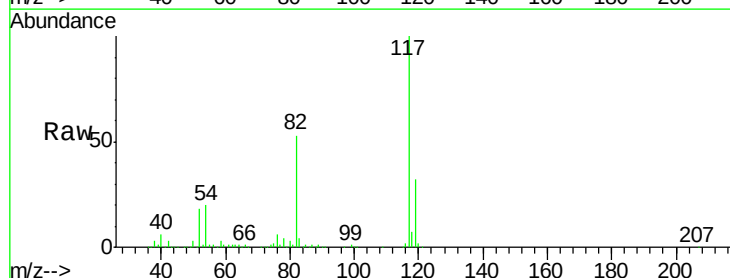
Tgt Ion: 117 Resp: 773154

Ion Ratio Lower Upper

117 100

82 53.5 41.9 62.9

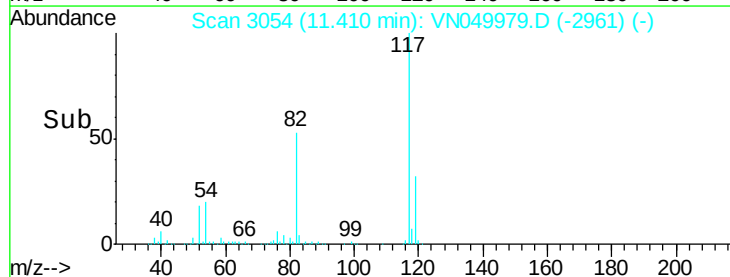
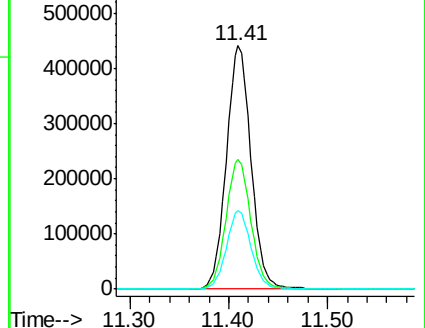
119 32.5 25.4 38.2

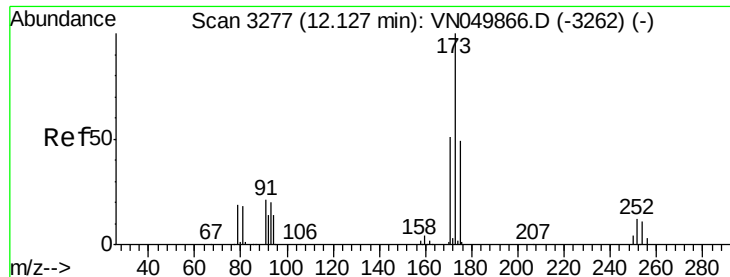


Abundance Ion 116.90 (116.60 to 117.60): VN049979.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN049979.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN049979.D (-2961) (-)





#71

Bromoform

Concen: 0.40 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN049979.D

Acq: 20 Jul 2018 22:25

Instrument :

MSVOA_N

ClientSampled :

LS-SOIL-3

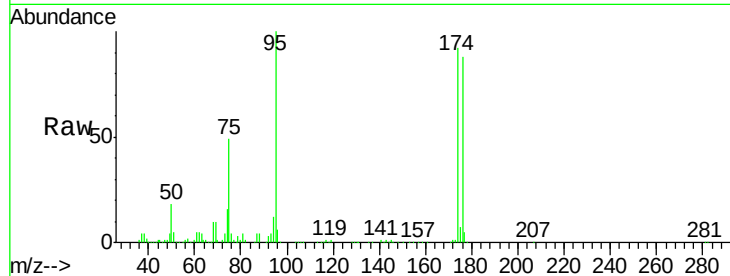
Tot Ion:173 Resp: 2156

Ion Ratio Lower Upper

173 100

175 831.8 24.6 73.8#

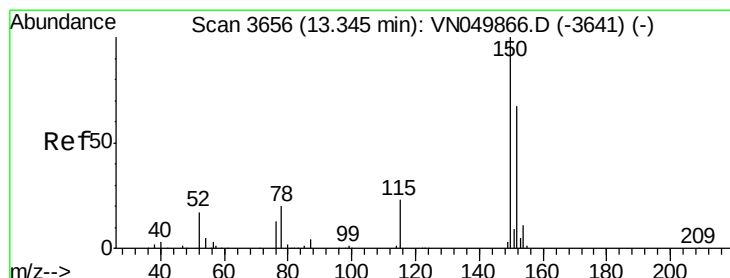
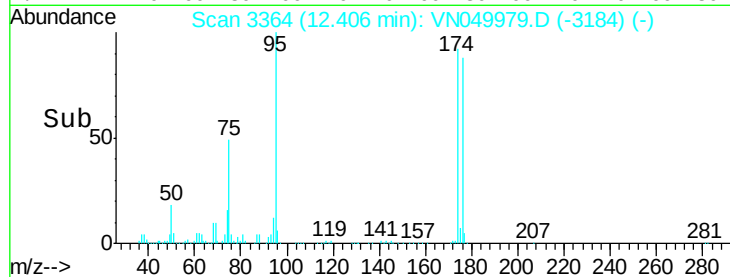
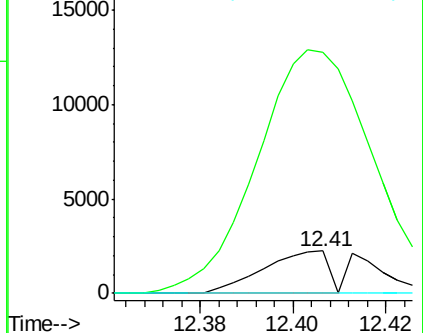
254 0.0 0.2 0.2#



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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN049979.D

Acq: 20 Jul 2018 22:25

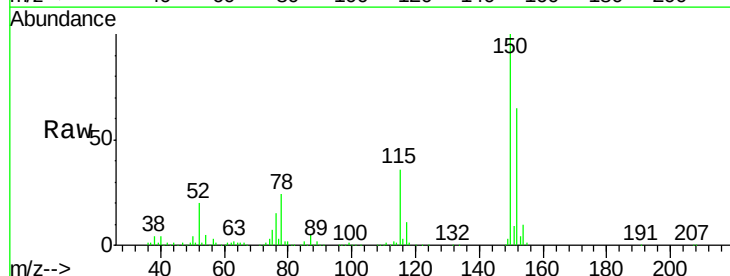
Tgt Ion:152 Resp: 284972

Ion Ratio Lower Upper

152 100

115 56.7 28.1 84.2

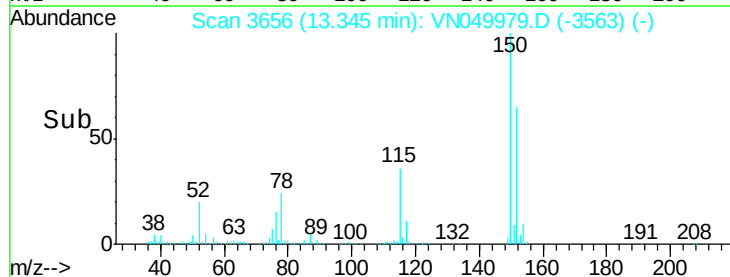
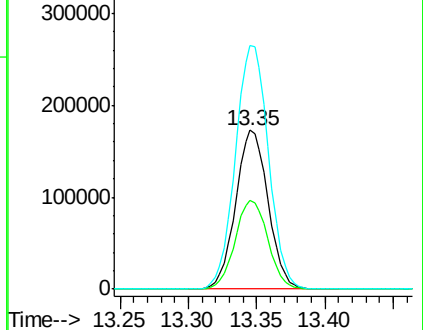
150 156.7 0.0 347.6

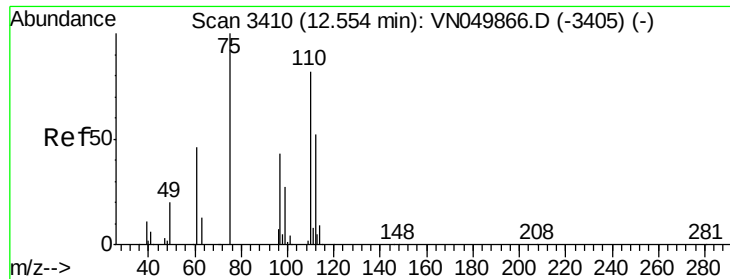


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

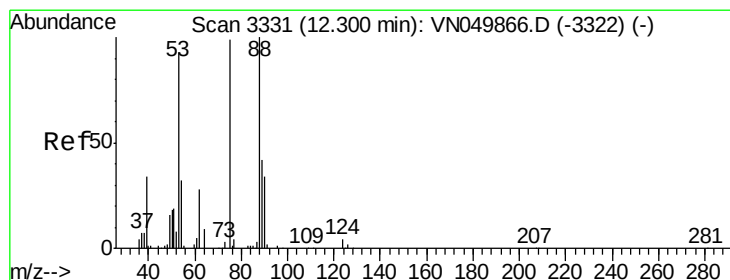
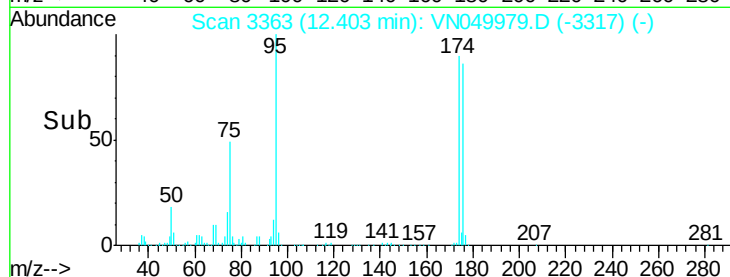
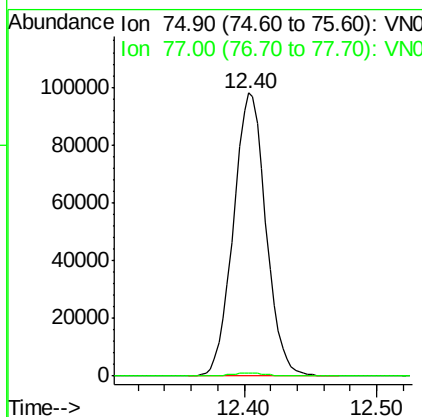
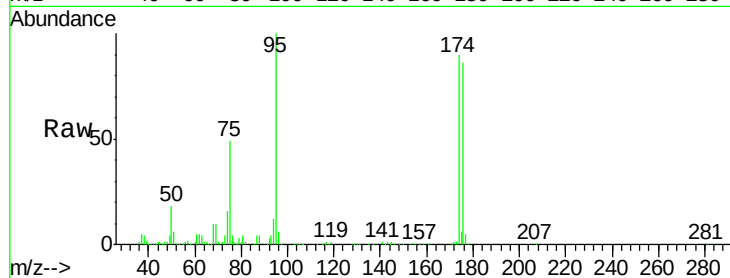




#76
 1,2,3-Trichloropropane
 Concen: 31.15 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN049979.D
 Acq: 20 Jul 2018 22:25

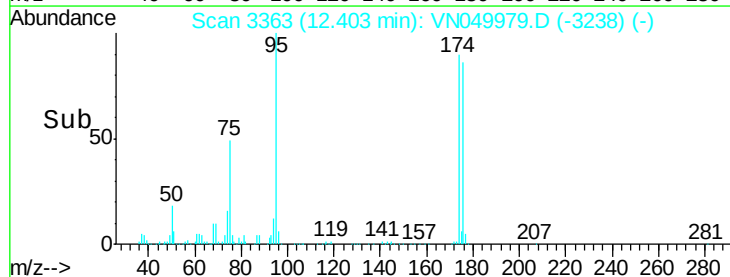
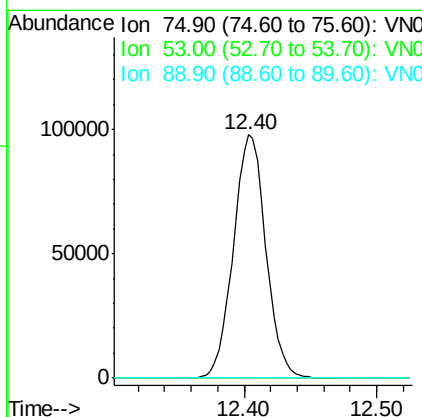
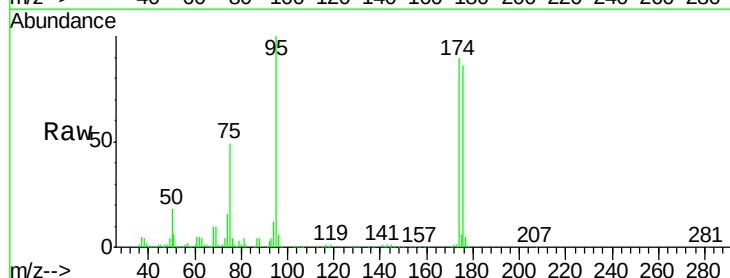
Instrument :
 MSVOA_N
 ClientSampled :
 LS-SOIL-3

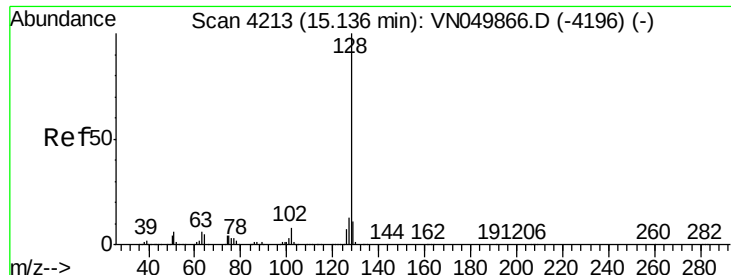
Tot Ion: 75 Resp: 166499
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 97.39 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN049979.D
 Acq: 20 Jul 2018 22:25

Tgt Ion: 75 Resp: 166499
 Ion Ratio Lower Upper
 75 100
 53 0.3 73.9 110.9#
 89 0.0 35.9 53.9#

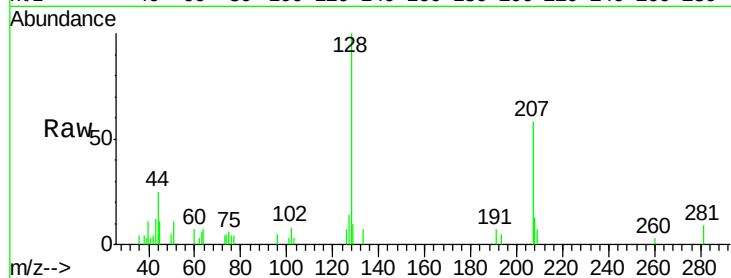




#95
Naphthalene
Concen: 5.11 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN049979.D
Acq: 20 Jul 2018 22:25

Instrument :
MSVOA_N
ClientSampleId :
LS-SOIL-3

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.9	10.4	15.6
129	10.1	8.6	13.0



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

