

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072018\
 Data File : VN049978.D
 Acq On : 20 Jul 2018 21:59
 Operator : MD\SY
 Sample : J4057-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LS-SOIL-1

Quant Time: Jul 20 23:51:28 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	541656	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	940418	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	779445	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	283881	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	403958	54.26	ug/l	0.00
Spiked Amount			Recovery	=	108.52%	
35) Dibromofluoromethane	7.59	113	357169	45.24	ug/l	0.00
Spiked Amount			Recovery	=	90.48%	
50) Toluene-d8	10.09	98	1260255	43.81	ug/l	0.00
Spiked Amount			Recovery	=	87.62%	
62) 4-Bromofluorobenzene	12.40	95	338014	34.12	ug/l	0.00
Spiked Amount			Recovery	=	68.24%	

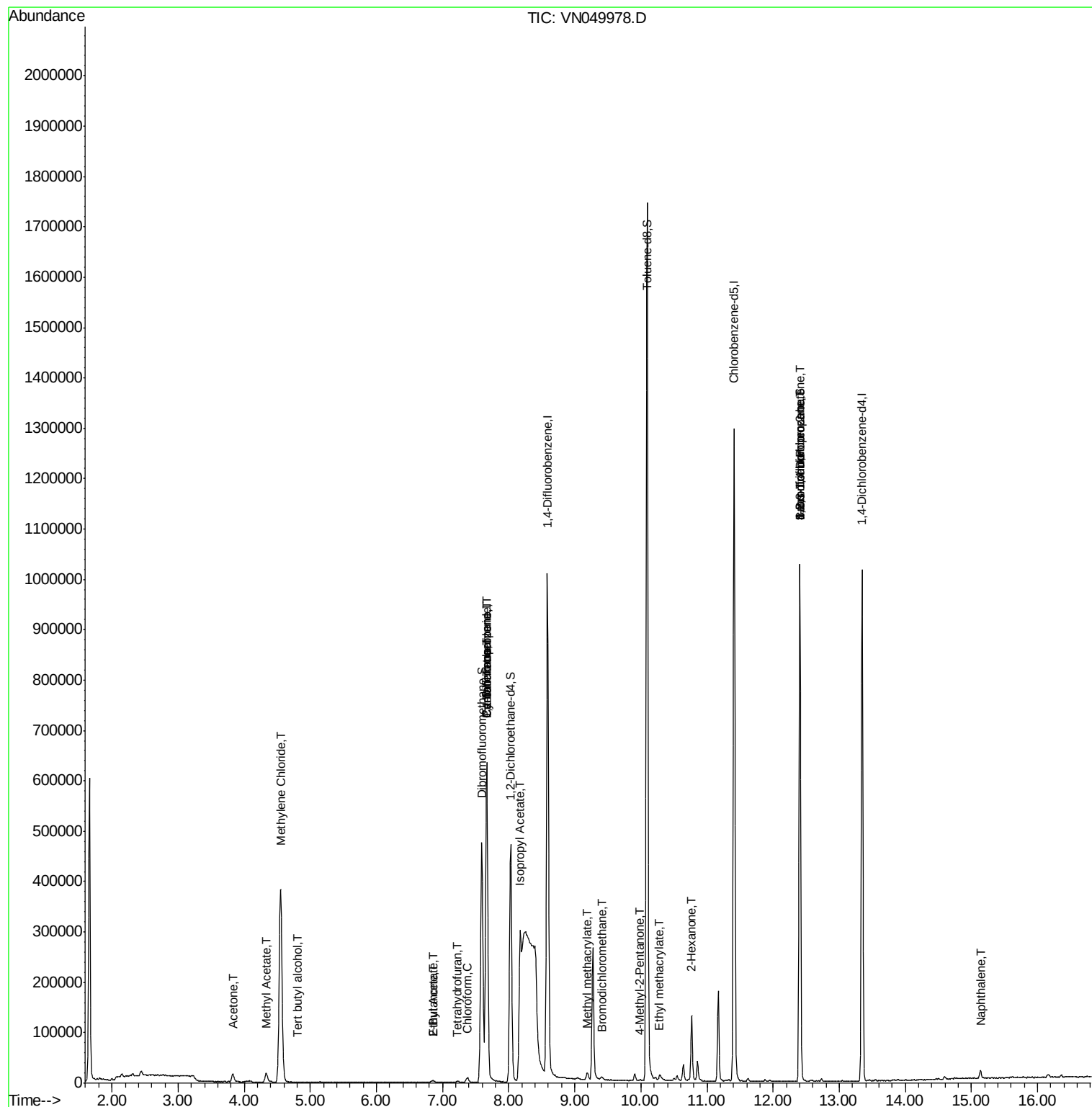
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	276	Below Cal	#	4
11) Tert butyl alcohol	4.80	59	149	0.28	ug/l #	72
16) Acetone	3.82	43	27877	14.46	ug/l	98
18) Methyl Acetate	4.33	43	35118	5.06	ug/l	95
20) Methylene Chloride	4.55	84	298044	40.66	ug/l	98
25) 2-Butanone	6.85	43	3594	1.30	ug/l #	77
29) Tetrahydrofuran	7.21	42	583	0.34	ug/l #	48
30) Chloroform	7.37	83	10030	0.81	ug/l	92
31) Cyclohexane	7.66	56	11167	1.13	ug/l #	5
36) 1,1-Dichloropropene	7.67	75	38634	3.69	ug/l #	48
37) Ethyl Acetate	6.85	43	3594	0.50	ug/l #	68
38) Carbon Tetrachloride	7.67	117	49153	4.39	ug/l #	17
43) Isopropyl Acetate	8.17	43	355721	28.36	ug/l #	88
47) Bromodichloromethane	9.41	83	3215	0.29	ug/l #	97
48) Methyl methacrylate	9.18	41	7411	1.18	ug/l #	23
51) 4-Methyl-2-Pentanone	9.99	43	1819	0.26	ug/l	91
56) Ethyl methacrylate	10.28	69	97	2.17	ug/l #	1
59) 2-Hexanone	10.77	43	18689	3.97	ug/l #	57
71) Bromoform	12.40	173	1513	0.28	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	166562	31.28	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166562	97.80	ug/l #	13
95) Naphthalene	15.14	128	14484	5.47	ug/l	99

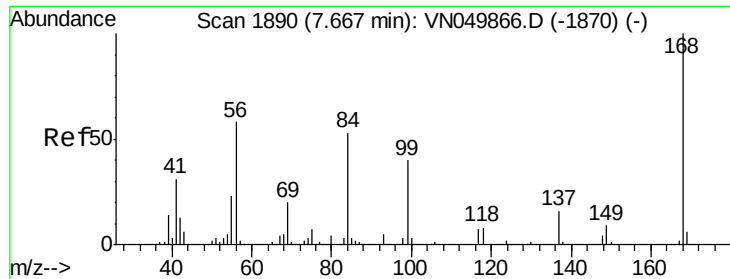
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN072018\
Data File : VN049978.D
Acq On : 20 Jul 2018 21:59
Operator : MD\SY
Sample : J4057-04
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
LS-SOIL-1

Quant Time: Jul 20 23:51:28 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 19 01:58:39 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049978.D

Acq: 20 Jul 2018 21:59

Instrument :

MSVOA_N

ClientSampled :

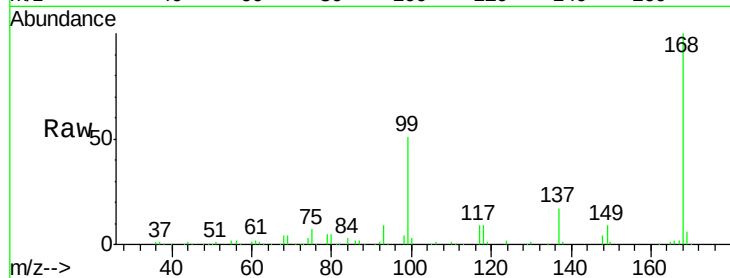
LS-SOIL-1

Tot Ion:168 Resp: 541656

Ion Ratio Lower Upper

168 100

99 51.4 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VN049978.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN049978.D (-1797) (-)

7.67

250000

200000

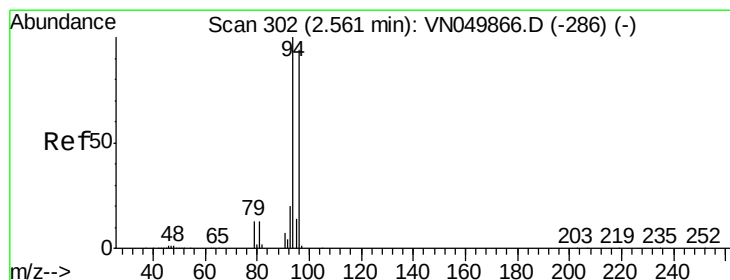
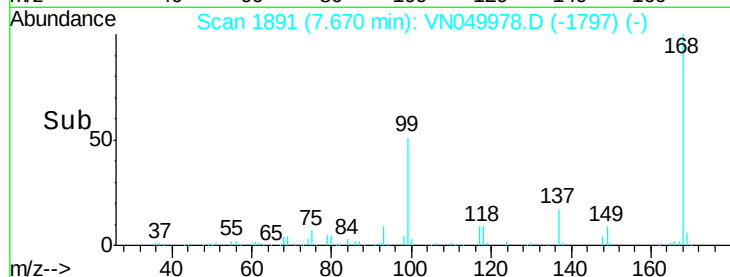
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 300

Delta R.T. -0.01 min

Lab File: VN049978.D

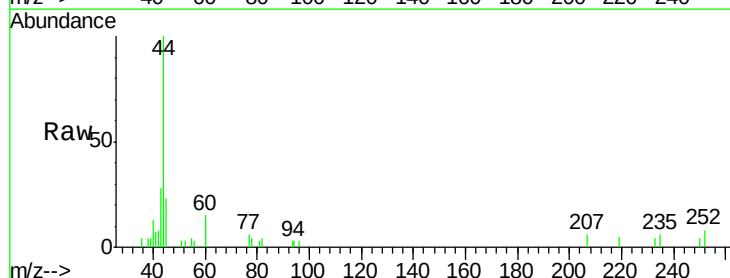
Acq: 20 Jul 2018 21:59

Tgt Ion: 94 Resp: 276

Ion Ratio Lower Upper

94 100

96 1.8 75.7 113.5#



Abundance Ion 93.90 (93.60 to 94.60): VN049978.D (-209) (-)

Ion 95.90 (95.60 to 96.60): VN049978.D (-209) (-)

2.55

400

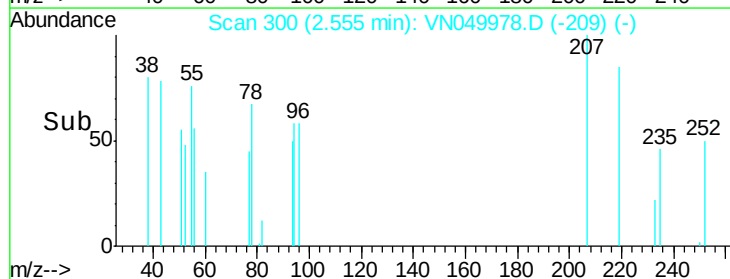
300

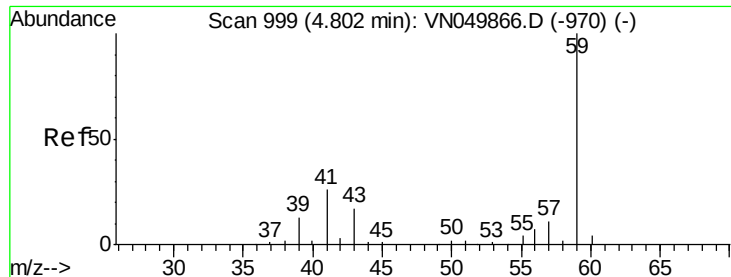
200

100

0

Time-->

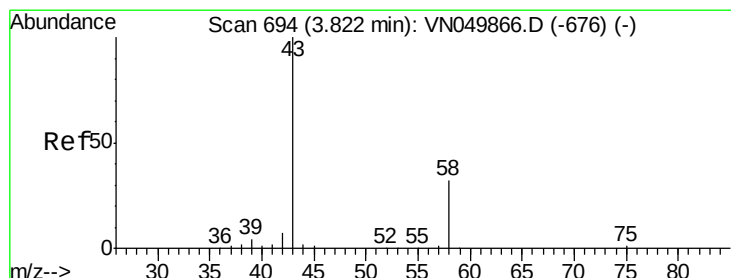
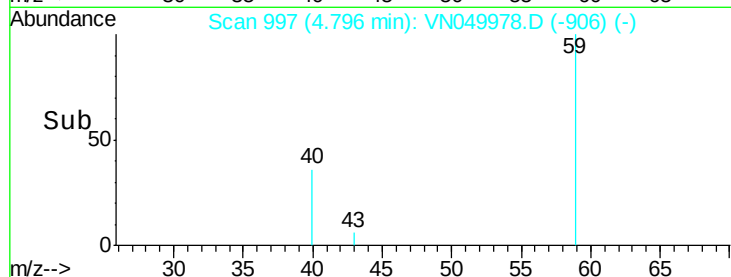
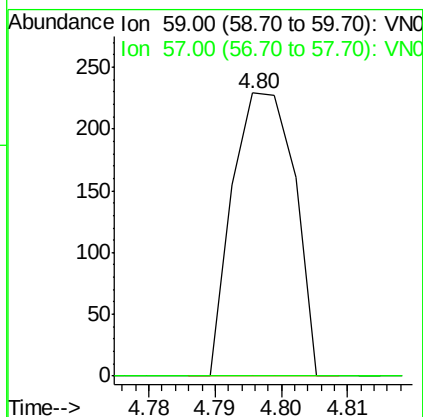
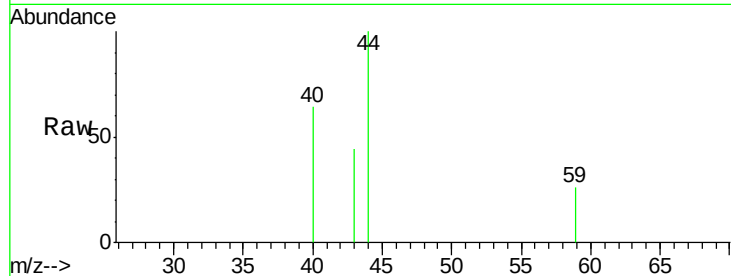




#11
Tert butyl alcohol
Concen: 0.28 ug/l
RT: 4.80 min Scan# 997
Delta R.T. -0.01 min
Lab File: VN049978.D
Acq: 20 Jul 2018 21:59

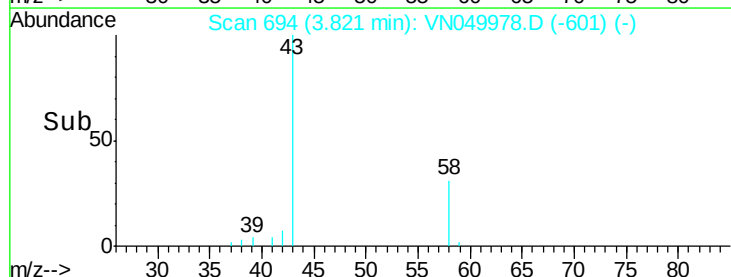
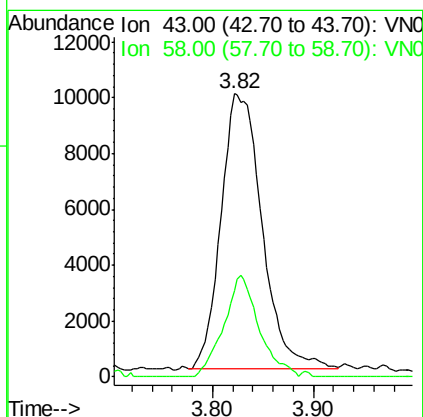
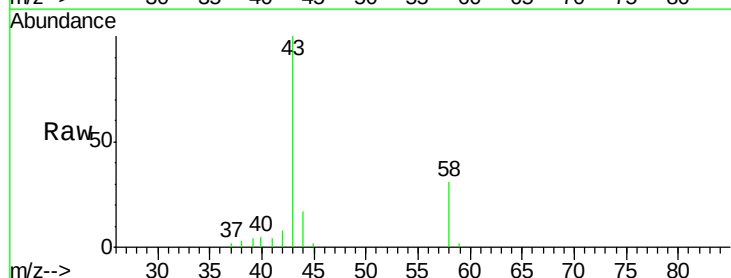
Instrument :
MSVOA_N
ClientSampled :
LS-SOIL-1

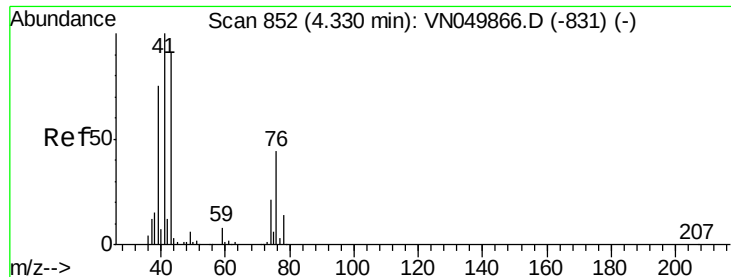
Tot Ion: 59 Resp: 149
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 14.46 ug/l
RT: 3.82 min Scan# 694
Delta R.T. -0.00 min
Lab File: VN049978.D
Acq: 20 Jul 2018 21:59

Tgt Ion: 43 Resp: 27877
Ion Ratio Lower Upper
43 100
58 31.5 25.9 38.9

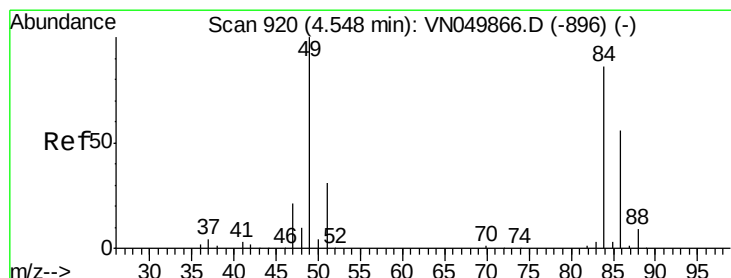
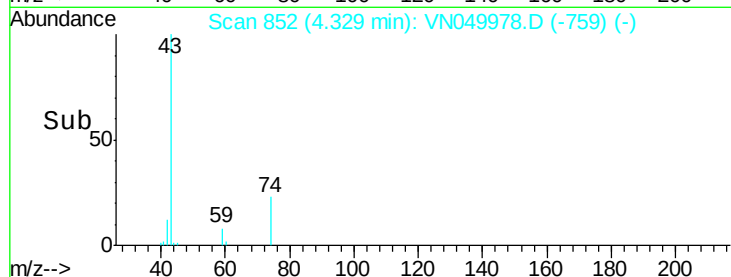
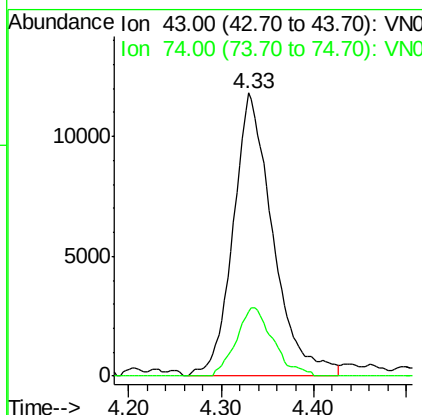
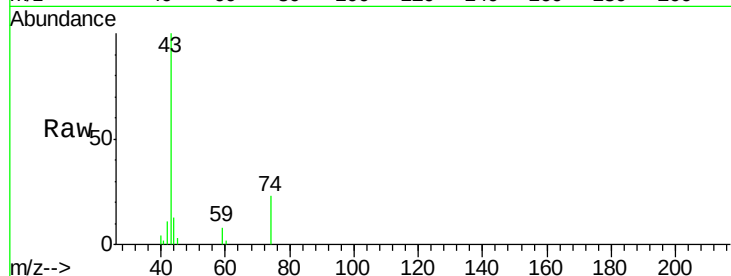




#18
Methvl Acetate
Concen: 5.06 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049978.D
Acq: 20 Jul 2018 21:59

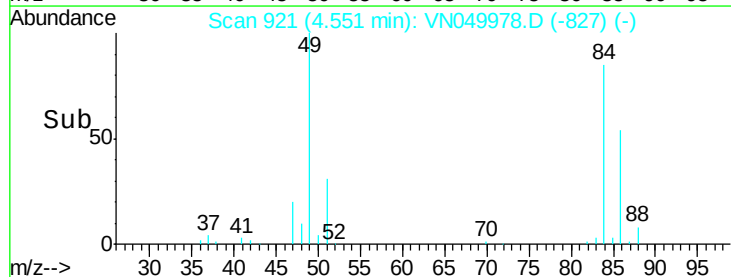
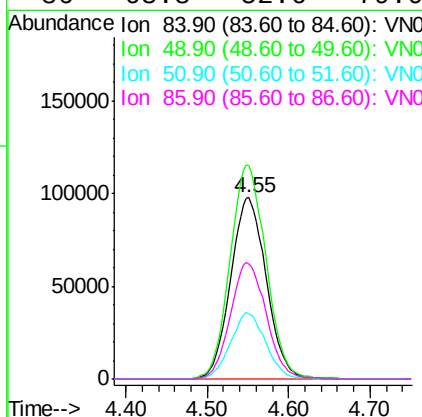
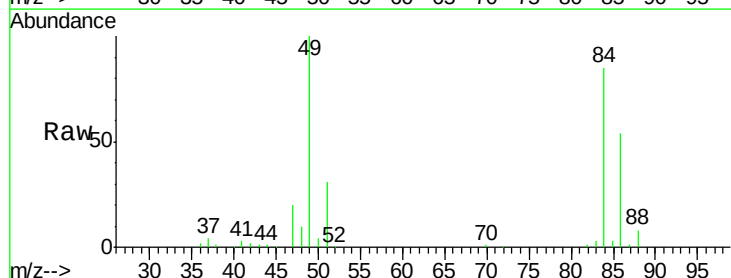
Instrument :
MSVOA_N
ClientSampled :
LS-SOIL-1

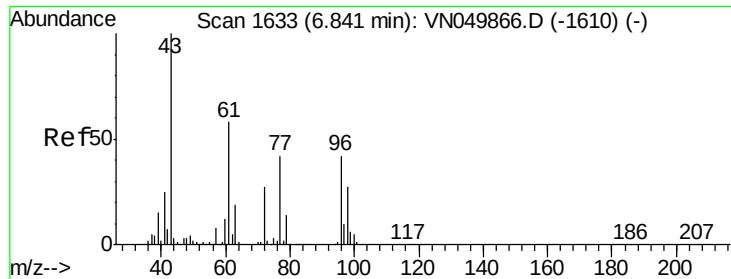
Tot Ion: 43 Resp: 35118
Ion Ratio Lower Upper
43 100
74 22.5 19.8 29.8



#20
Methylene Chloride
Concen: 40.66 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049978.D
Acq: 20 Jul 2018 21:59

Tgt Ion: 84 Resp: 298044
Ion Ratio Lower Upper
84 100
49 117.7 95.4 143.2
51 36.2 28.4 42.6
86 63.8 52.6 79.0





#25

2-Butanone

Concen: 1.30 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. 0.01 min

Lab File: VN049978.D

Acq: 20 Jul 2018 21:59

Instrument :

MSVOA_N

ClientSampled :

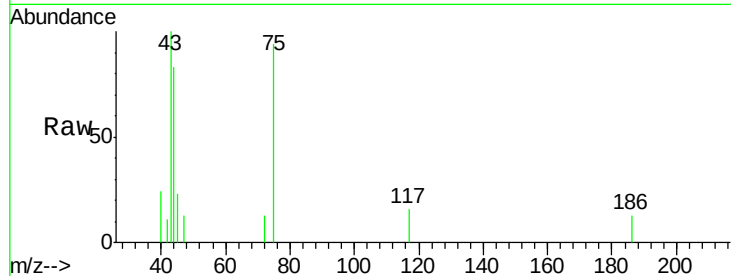
LS-SOIL-1

Tot Ion: 43 Resp: 3594

Ion Ratio Lower Upper

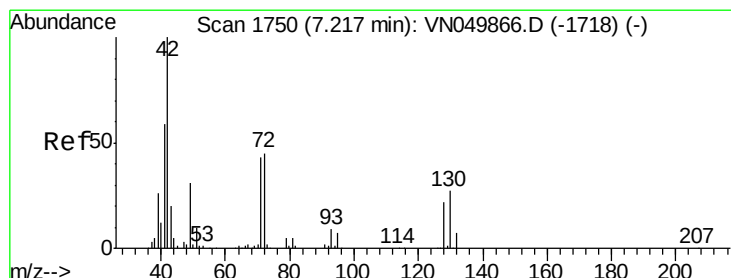
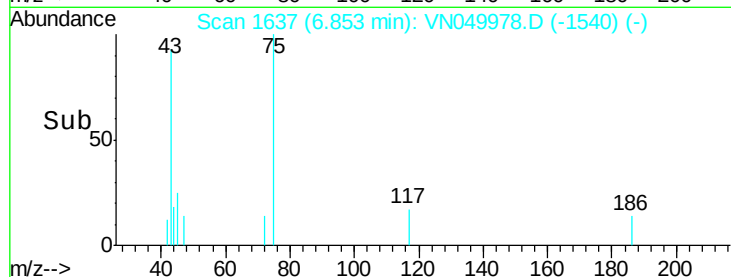
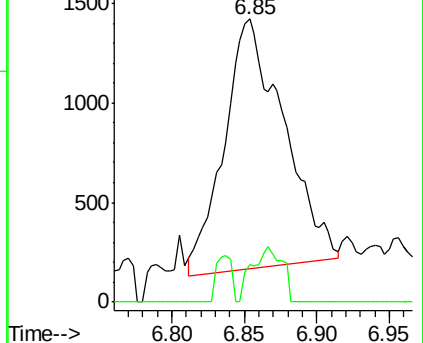
43 100

72 15.5 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.34 ug/l

RT: 7.21 min Scan# 1749

Delta R.T. -0.00 min

Lab File: VN049978.D

Acq: 20 Jul 2018 21:59

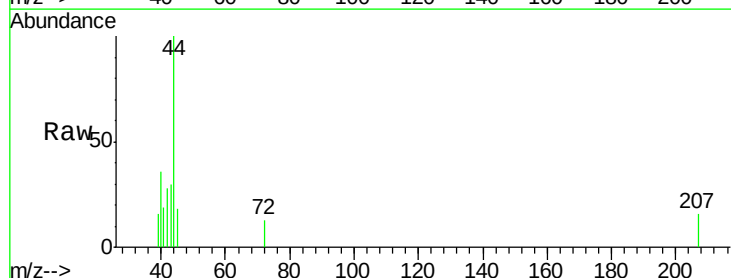
Tgt Ion: 42 Resp: 583

Ion Ratio Lower Upper

42 100

72 20.4 35.6 53.4#

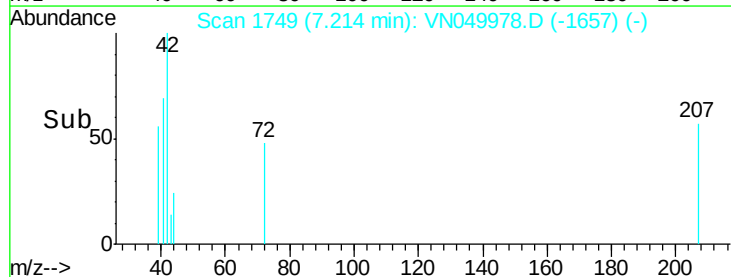
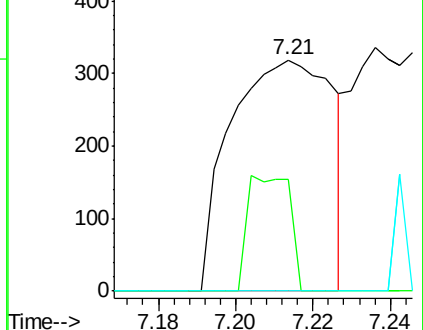
71 0.0 34.0 51.0#

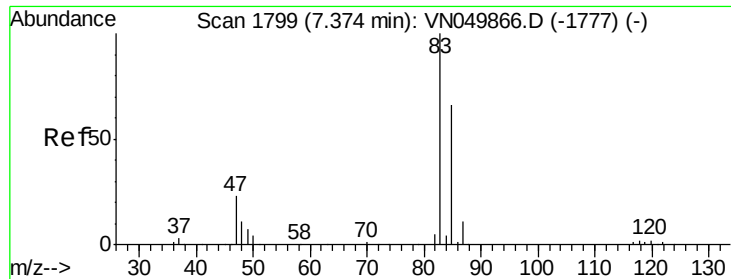


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

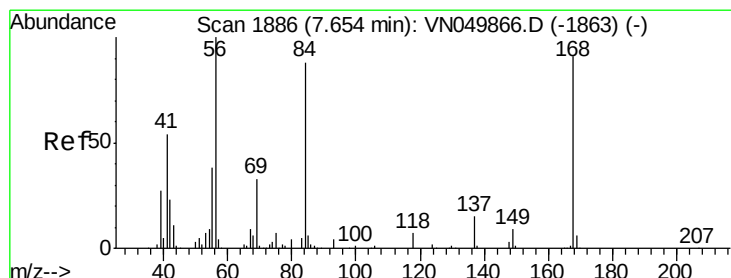
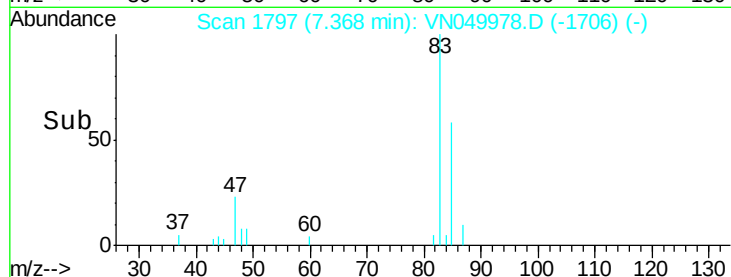
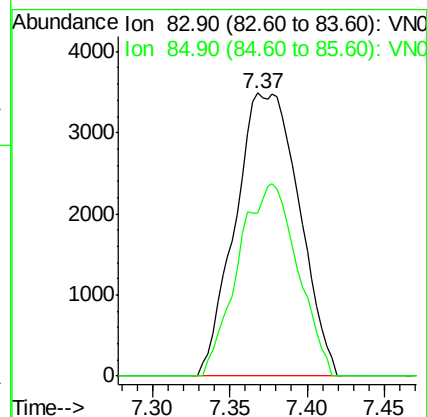
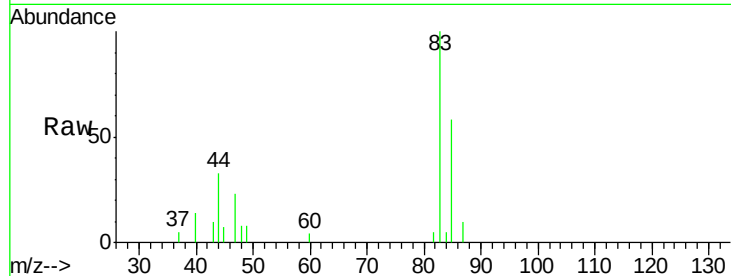




#30
Chloroform
Concen: 0.81 ug/l
RT: 7.37 min Scan# 1797
Delta R.T. -0.01 min
Lab File: VN049978.D
Acq: 20 Jul 2018 21:59

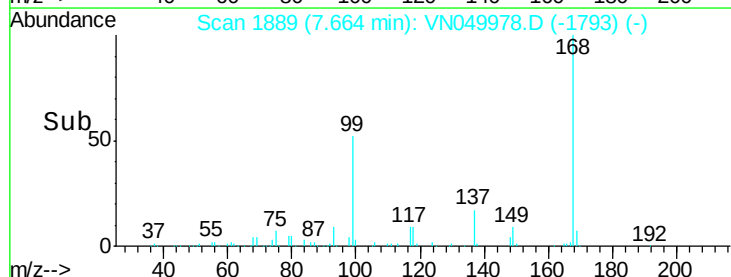
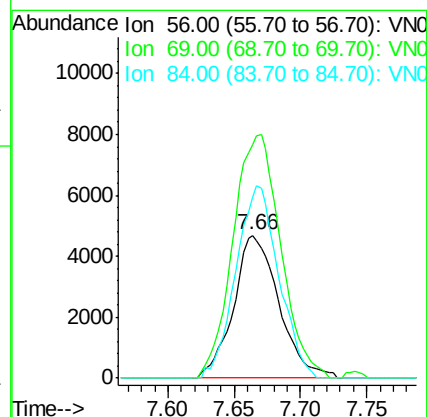
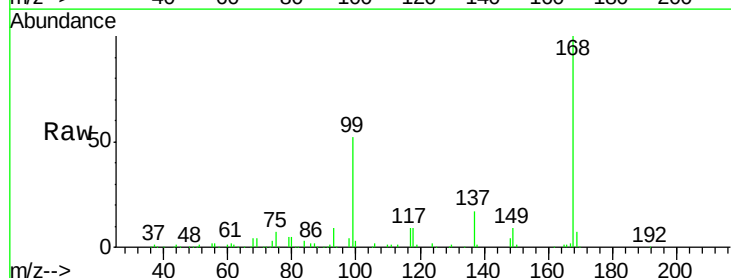
Instrument :
MSVOA_N
ClientSampleId :
LS-SOIL-1

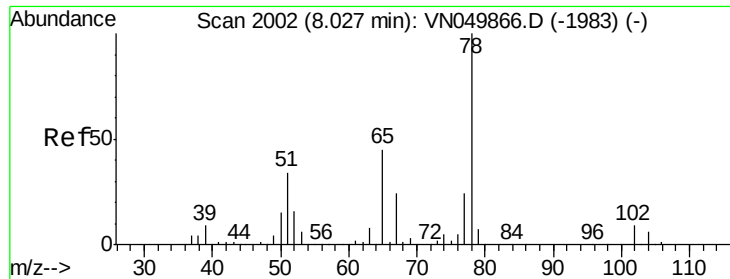
Tot Ion: 83 Resp: 10030
Ion Ratio Lower Upper
83 100
85 57.7 51.4 77.2



#31
Cyclohexane
Concen: 1.13 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN049978.D
Acq: 20 Jul 2018 21:59

Tgt Ion: 56 Resp: 11167
Ion Ratio Lower Upper
56 100
69 163.5 26.6 40.0#
84 126.4 69.0 103.6#





#33

1,2-Dichloroethane-d4

Concen: 54.26 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049978.D

Acq: 20 Jul 2018 21:59

Instrument :

MSVOA_N

ClientSampleId :

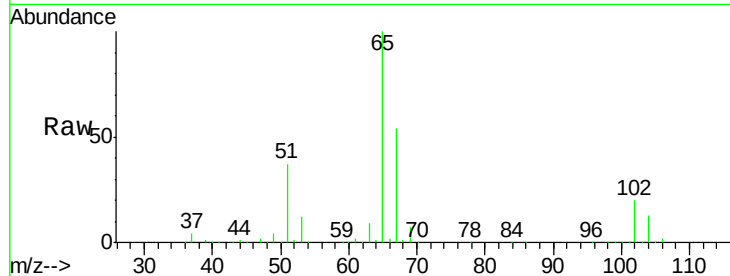
LS-SOIL-1

Tot Ion: 65 Resp: 403958

Ion Ratio Lower Upper

65 100

67 53.6 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049978.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049978.D (-1909) (-)

8.03

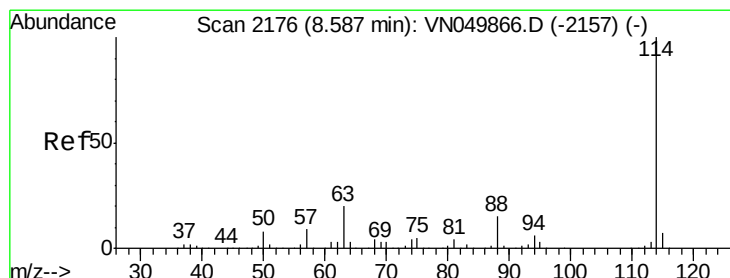
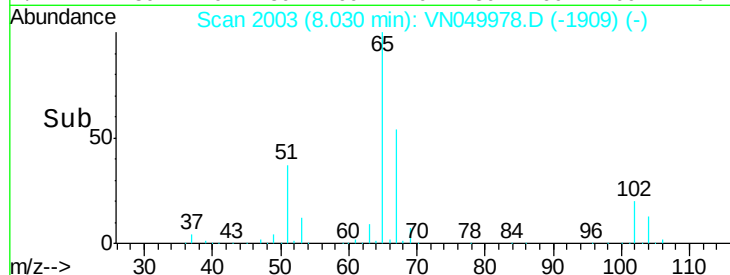
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049978.D

Acq: 20 Jul 2018 21:59

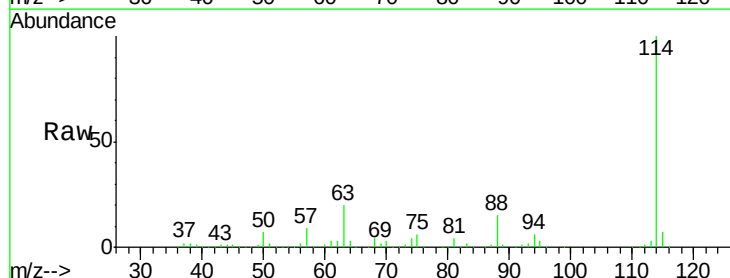
Tgt Ion: 114 Resp: 940418

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.8

88 15.4 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): VN049978.D (-2083) (-)

Ion 63.00 (62.70 to 63.70): VN049978.D (-2083) (-)

Ion 87.90 (87.60 to 88.60): VN049978.D (-2083) (-)

8.59

600000

500000

400000

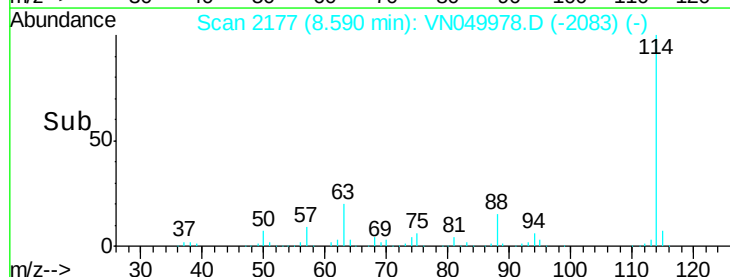
300000

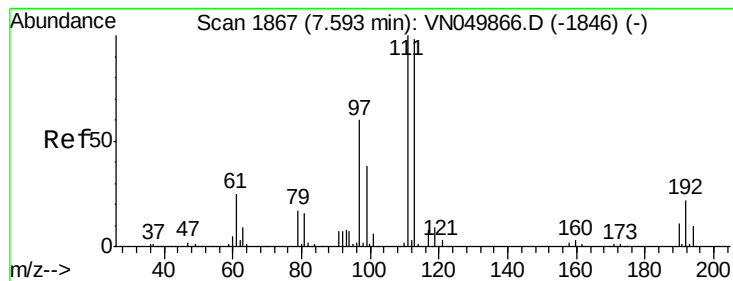
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 45.24 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN049978.D

Acq: 20 Jul 2018 21:59

Instrument :

MSVOA_N

ClientSampleId :

LS-SOIL-1

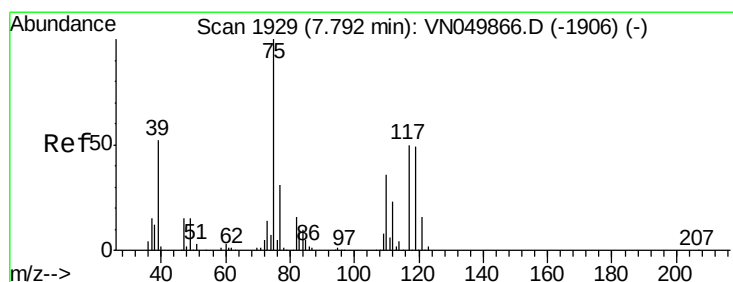
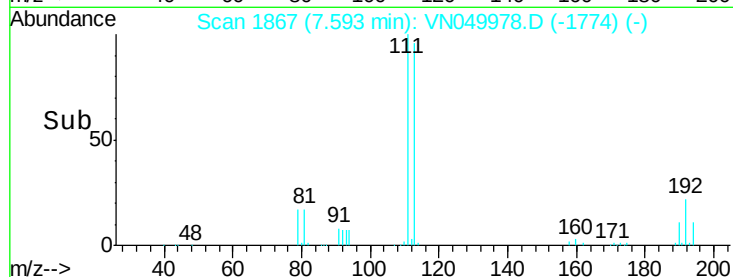
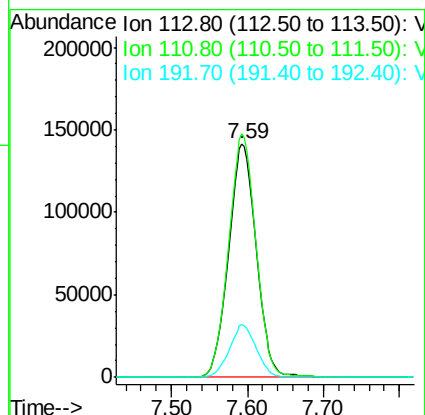
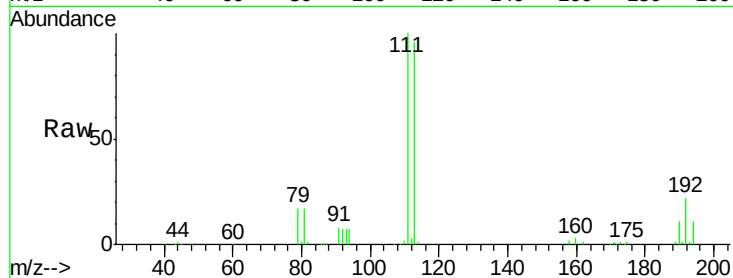
Tot Ion:113 Resp: 357169

Ion Ratio Lower Upper

113 100

111 103.3 81.8 122.8

192 22.0 17.8 26.6



#36

1,1-Dichloropropene

Concen: 3.69 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049978.D

Acq: 20 Jul 2018 21:59

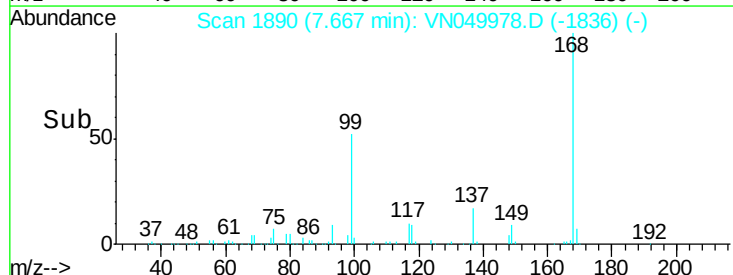
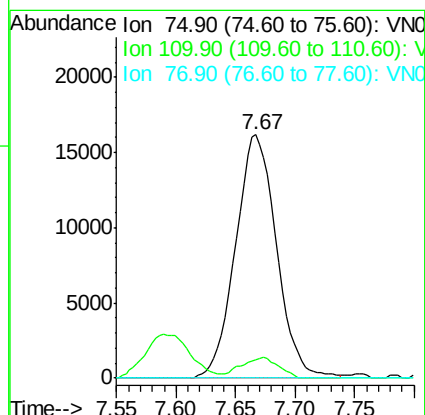
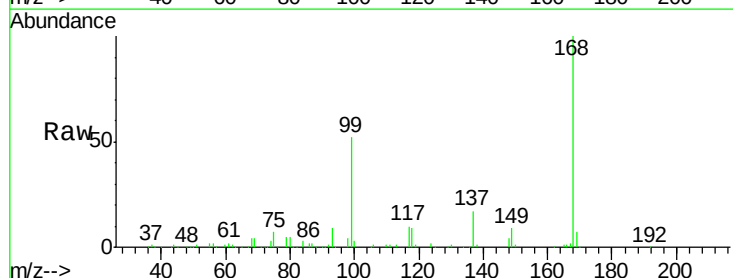
Tgt Ion: 75 Resp: 38634

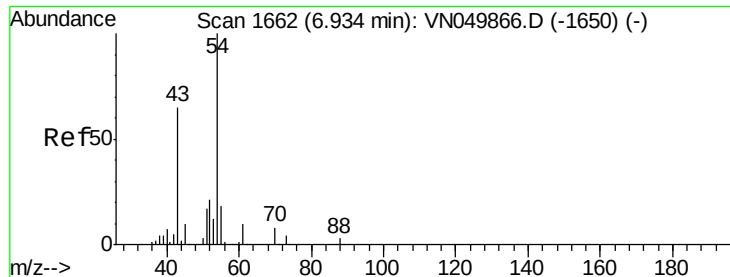
Ion Ratio Lower Upper

75 100

110 7.8 18.1 54.4#

77 0.0 24.9 37.3#





#37

Ethyl Acetate

Concen: 0.50 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. -0.08 min

Lab File: VN049978.D

Acq: 20 Jul 2018 21:59

Instrument :

MSVOA_N

ClientSampleId :

LS-SOIL-1

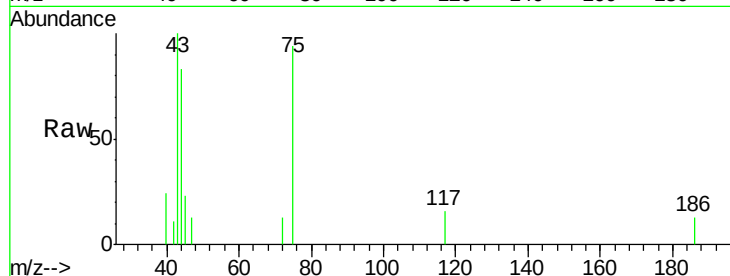
Tot Ion: 43 Resp: 3594

Ion Ratio Lower Upper

43 100

61 0.0 11.7 17.5#

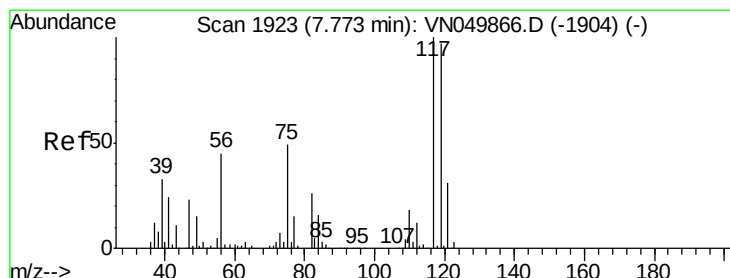
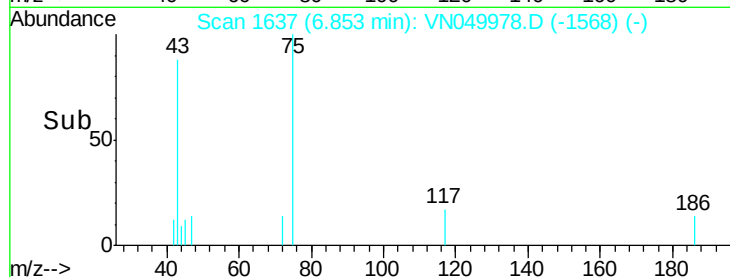
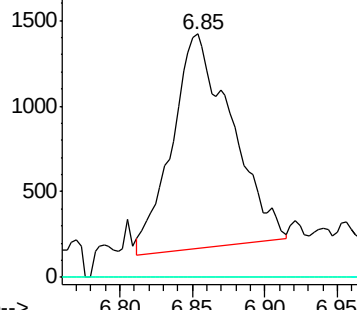
70 0.0 8.4 12.6#



Abundance Ion 43.00 (42.70 to 43.70): VN049978.D (-1637) (-)

Ion 60.90 (60.60 to 61.60): VN049978.D (-1637) (-)

Ion 70.00 (69.70 to 70.70): VN049978.D (-1637) (-)



#38

Carbon Tetrachloride

Concen: 4.39 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049978.D

Acq: 20 Jul 2018 21:59

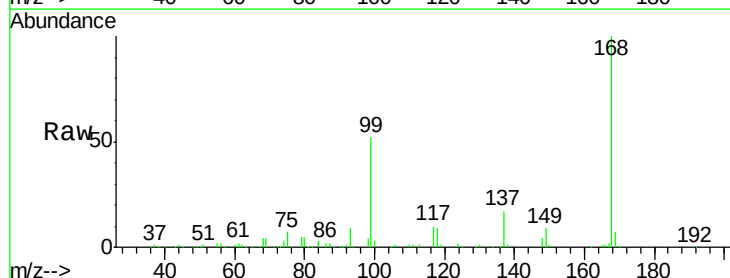
Tgt Ion: 117 Resp: 49153

Ion Ratio Lower Upper

117 100

119 6.3 77.2 115.8#

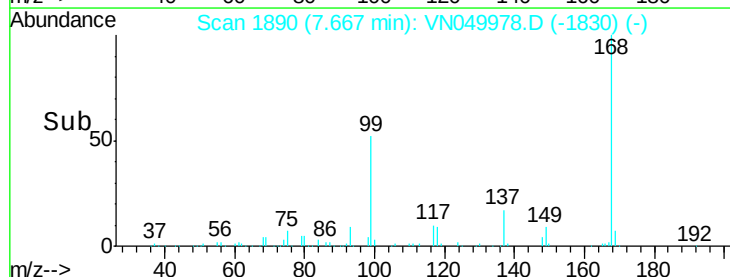
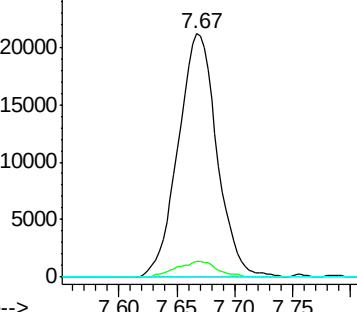
121 0.0 25.0 37.6#

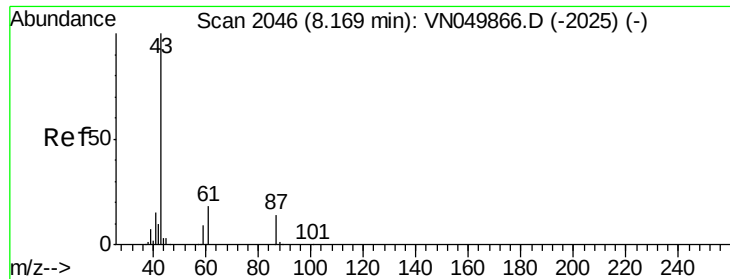


Abundance Ion 116.80 (116.50 to 117.50): VN049978.D (-1830) (-)

Ion 118.80 (118.50 to 119.50): VN049978.D (-1830) (-)

Ion 120.80 (120.50 to 121.50): VN049978.D (-1830) (-)



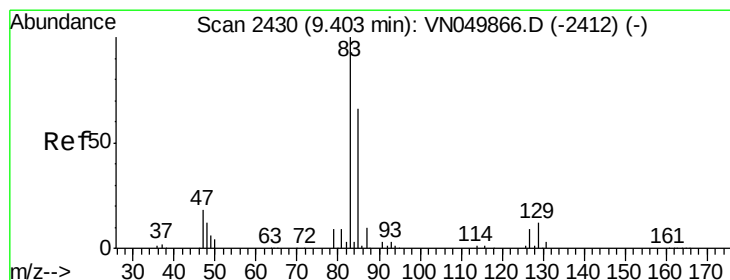
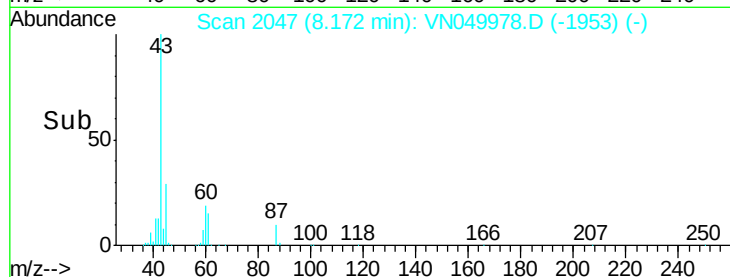
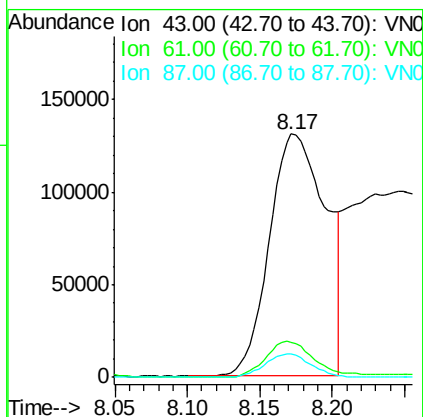
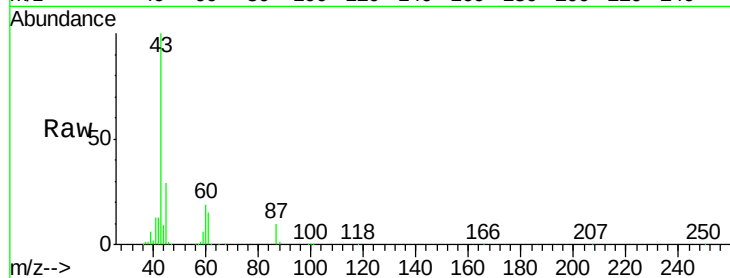


#43

Isopropyl Acetate
 Concen: 28.36 ug/l
 RT: 8.17 min Scan# 2047
 Delta R.T. 0.00 min
 Lab File: VN049978.D
 Acq: 20 Jul 2018 21:59

Instrument :
 MSVOA_N
 ClientSampled :
 LS-SOIL-1

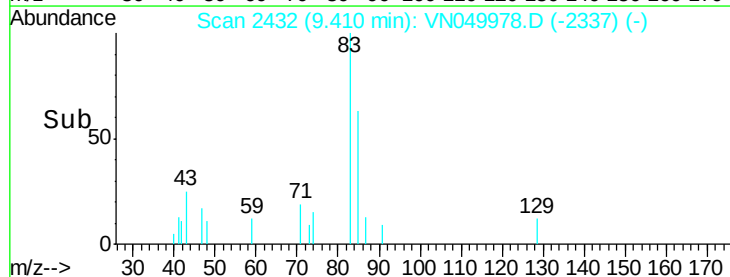
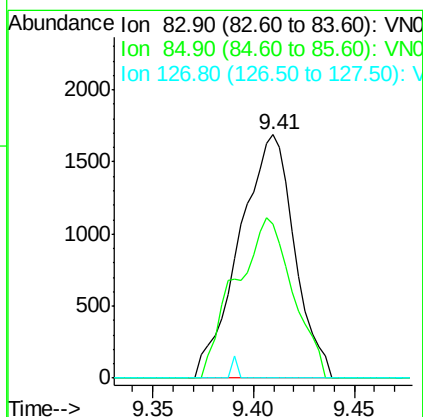
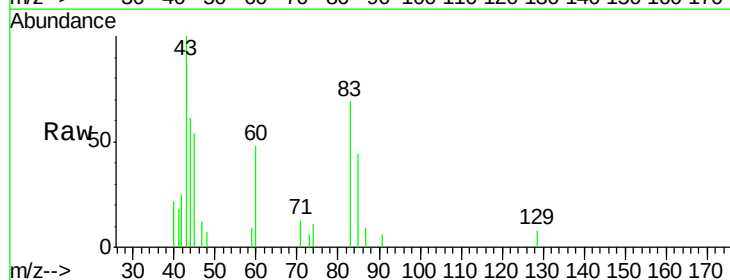
Tot Ion: 43 Resp: 355721
 Ion Ratio Lower Upper
 43 100
 61 13.1 14.9 22.3#
 87 8.1 10.0 15.0#

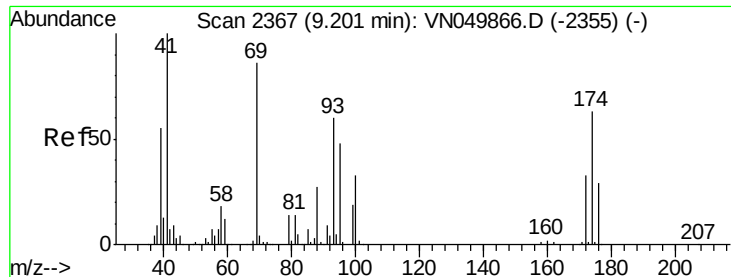


#47

Bromodichloromethane
 Concen: 0.29 ug/l
 RT: 9.41 min Scan# 2432
 Delta R.T. 0.01 min
 Lab File: VN049978.D
 Acq: 20 Jul 2018 21:59

Tgt Ion: 83 Resp: 3215
 Ion Ratio Lower Upper
 83 100
 85 63.0 50.5 75.7
 127 0.0 6.8 10.2#

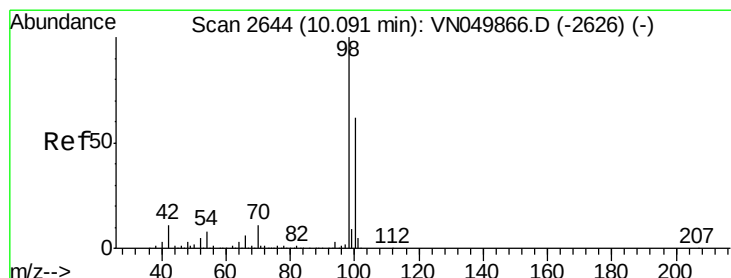
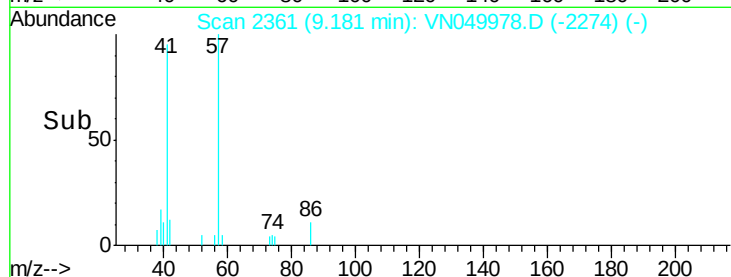
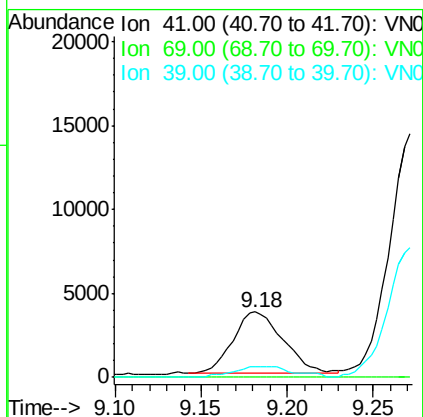
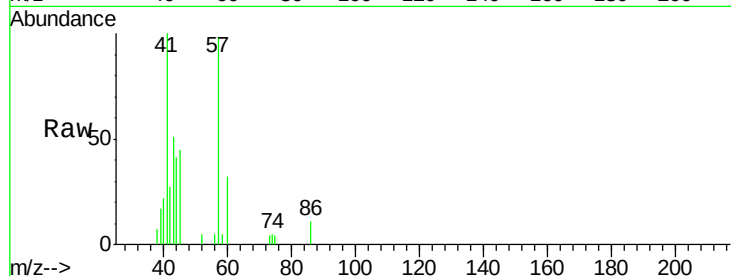




#48
Methvl methacrylate
Concen: 1.18 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN049978.D
Acq: 20 Jul 2018 21:59

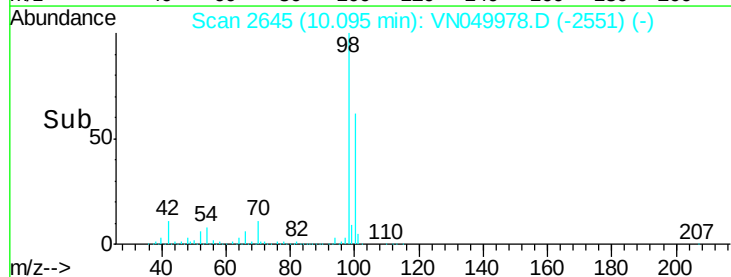
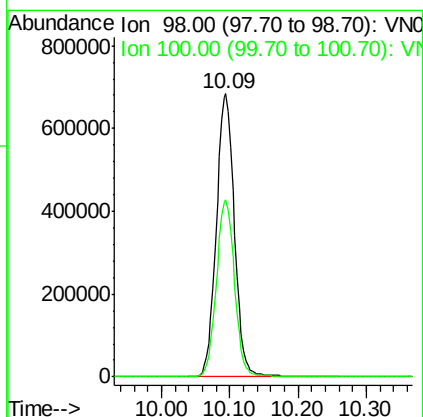
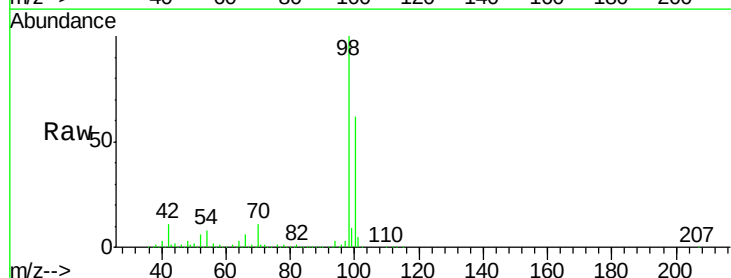
Instrument :
MSVOA_N
ClientSampleId :
LS-SOIL-1

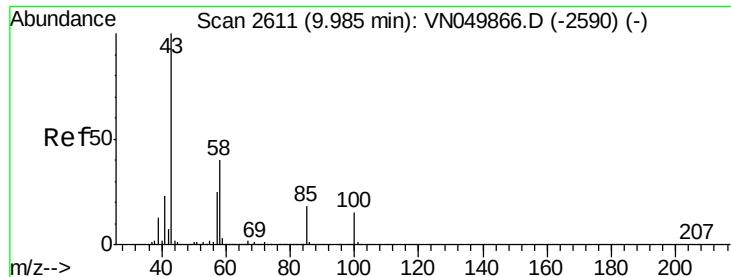
Tot Ion: 41 Resp: 7411
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 21.0 44.7 67.1#



#50
Toluene-d8
Concen: 43.81 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049978.D
Acq: 20 Jul 2018 21:59

Tgt Ion: 98 Resp: 1260255
Ion Ratio Lower Upper
98 100
100 62.7 51.7 77.5

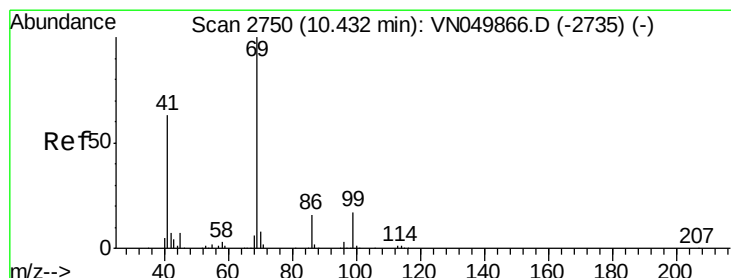
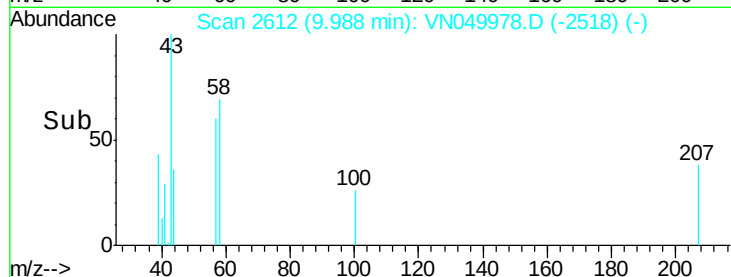
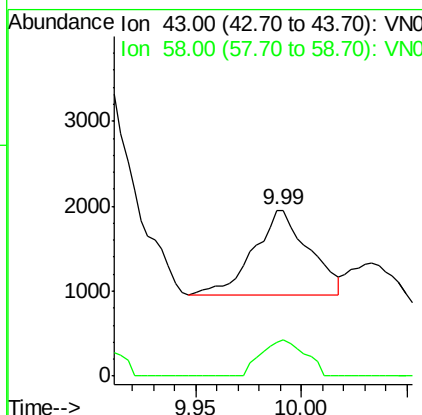
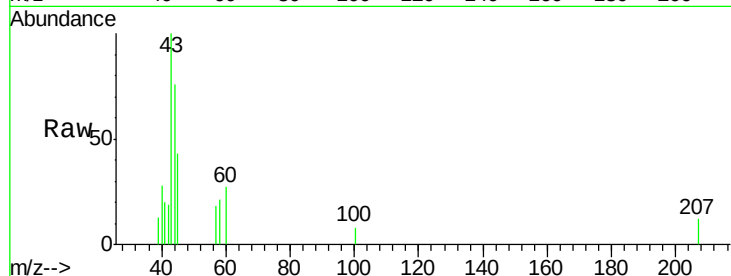




#51
 4-Methyl-2-Pentanone
 Concen: 0.26 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. 0.00 min
 Lab File: VN049978.D
 Acq: 20 Jul 2018 21:59

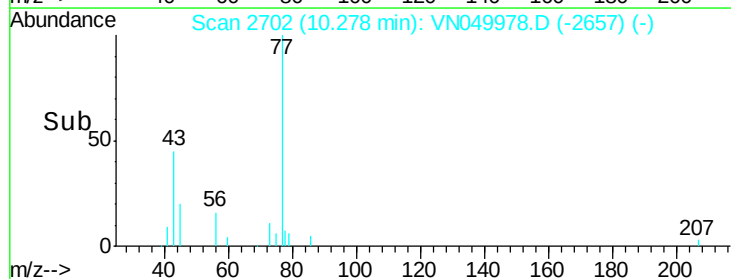
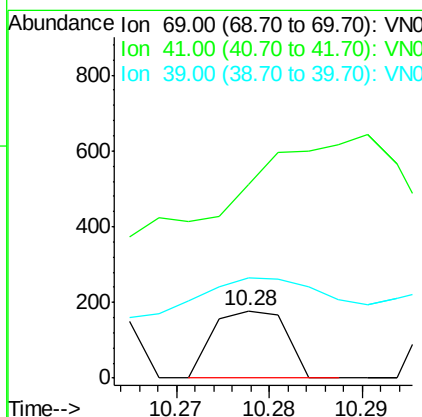
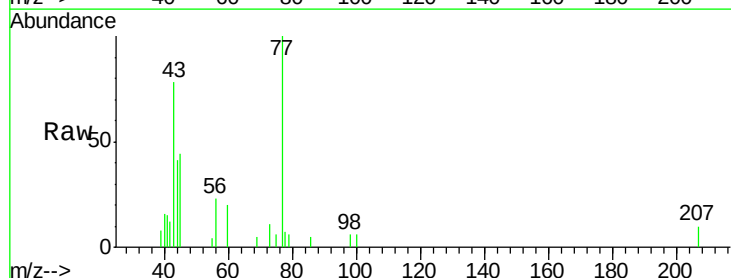
Instrument :
 MSVOA_N
 ClientSampled :
 LS-SOIL-1

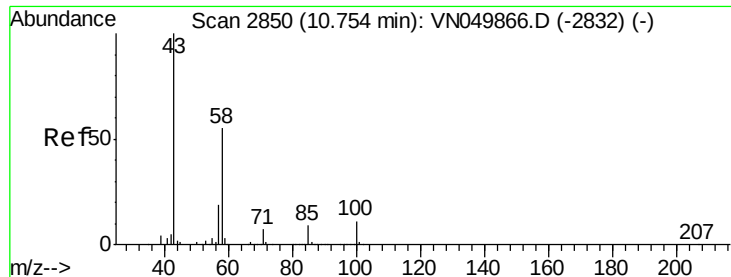
Tot Ion: 43 Resp: 1819
 Ion Ratio Lower Upper
 43 100
 58 34.2 31.8 47.8



#56
 Ethyl methacrylate
 Concen: 2.17 ug/l
 RT: 10.28 min Scan# 2702
 Delta R.T. -0.15 min
 Lab File: VN049978.D
 Acq: 20 Jul 2018 21:59

Tgt Ion: 69 Resp: 97
 Ion Ratio Lower Upper
 69 100
 41 0.0 51.6 77.4#
 39 385.6 25.8 38.8#





#59

2-Hexanone

Concen: 3.97 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049978.D

Acq: 20 Jul 2018 21:59

Instrument :

MSVOA_N

ClientSampled :

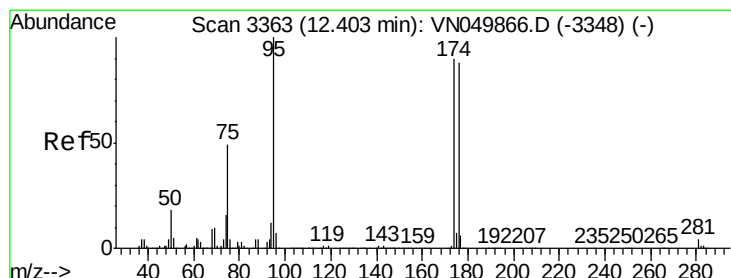
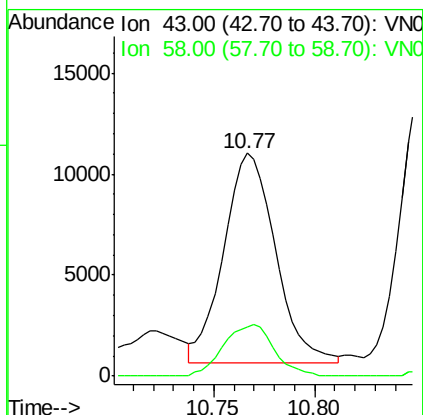
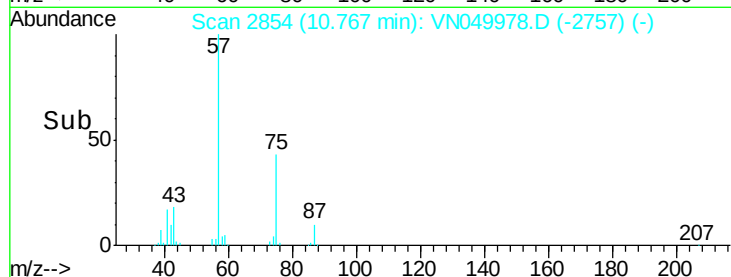
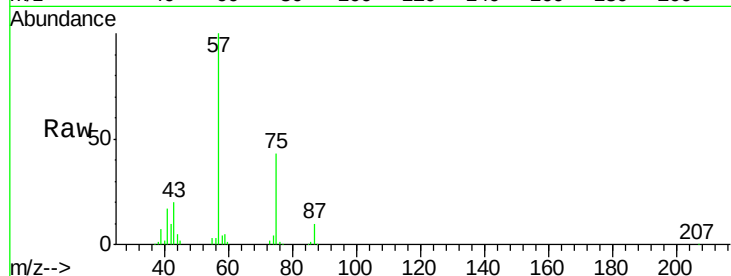
LS-SOIL-1

Tot Ion: 43 Resp: 18689

Ion Ratio Lower Upper

43 100

58 24.2 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 34.12 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049978.D

Acq: 20 Jul 2018 21:59

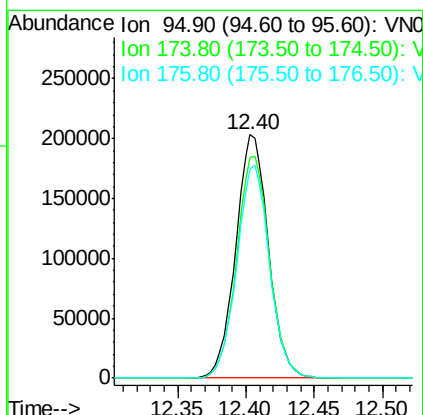
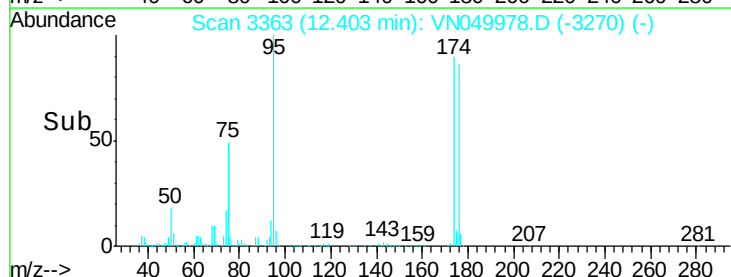
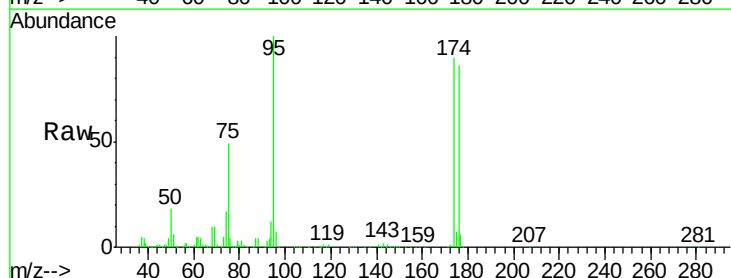
Tgt Ion: 95 Resp: 338014

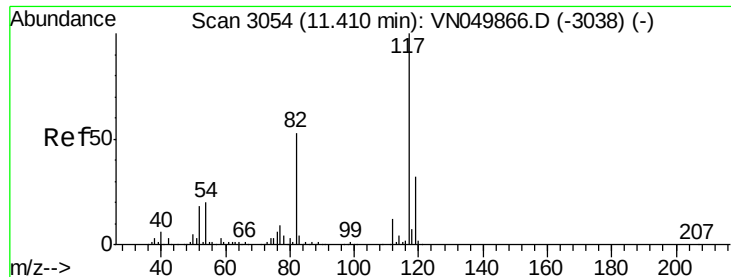
Ion Ratio Lower Upper

95 100

174 92.1 0.0 179.6

176 87.3 0.0 174.0

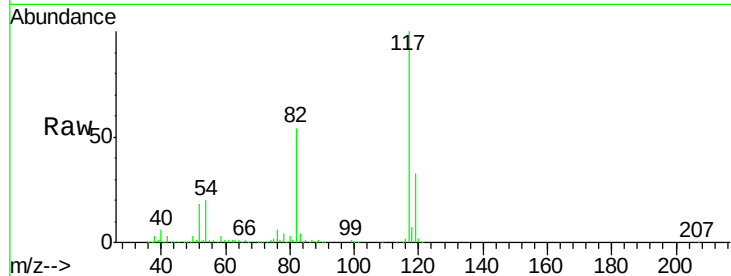




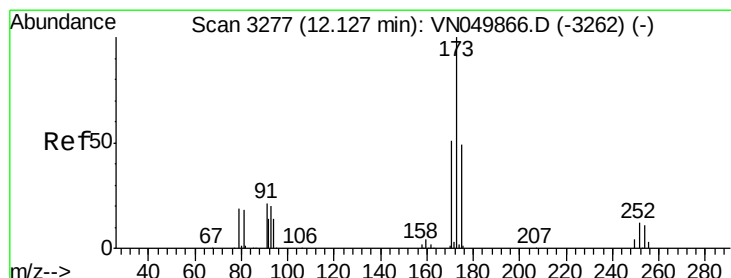
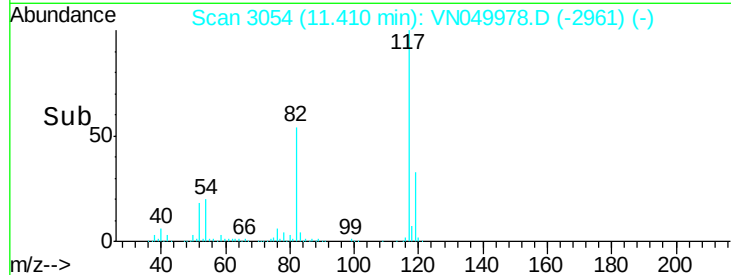
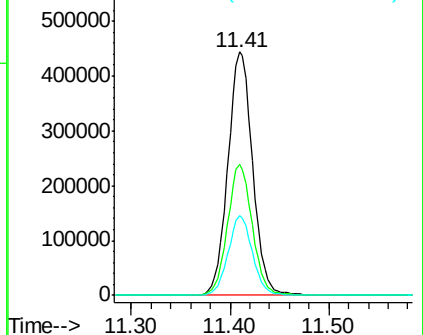
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049978.D
Acq: 20 Jul 2018 21:59

Instrument :
MSVOA_N
ClientSampled :
LS-SOIL-1

Tot Ion:117 Resp: 779445
Ion Ratio Lower Upper
117 100
82 53.8 41.9 62.9
119 32.7 25.4 38.2

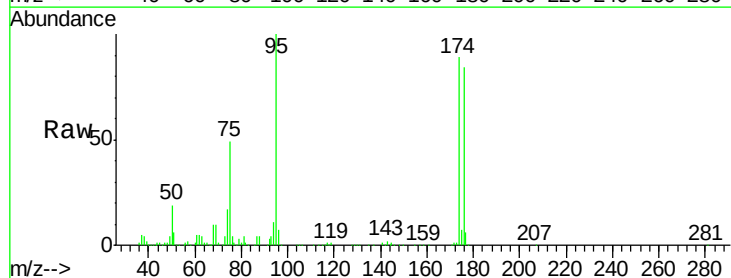


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

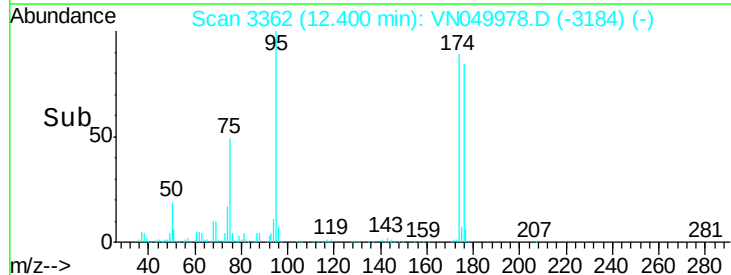
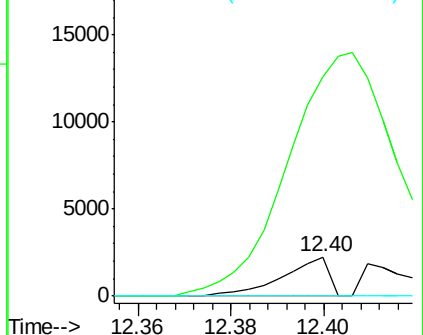


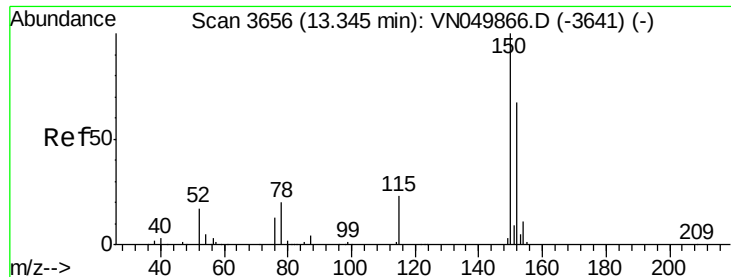
#71
Bromoform
Concen: 0.28 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. 0.27 min
Lab File: VN049978.D
Acq: 20 Jul 2018 21:59

Tgt Ion:173 Resp: 1513
Ion Ratio Lower Upper
173 100
175 1243.8 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# 3657

Delta R.T. 0.00 min

Lab File: VN049978.D

Acq: 20 Jul 2018 21:59

Instrument :

MSVOA_N

ClientSampled :

LS-SOIL-1

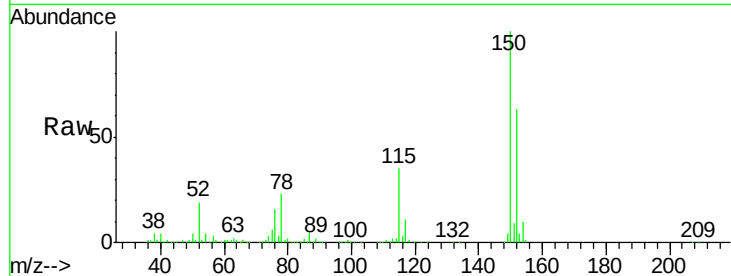
Tot Ion:152 Resp: 283881

Ion Ratio Lower Upper

152 100

115 56.3 28.1 84.2

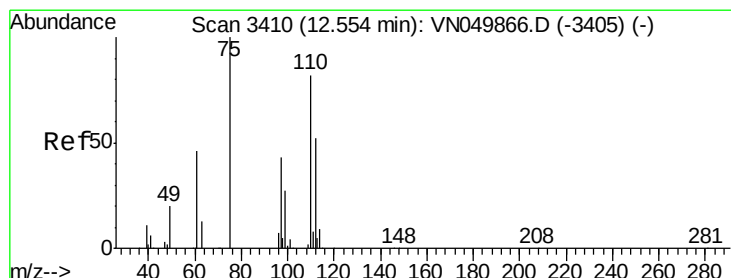
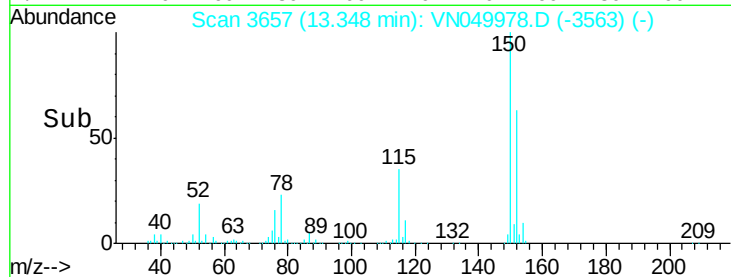
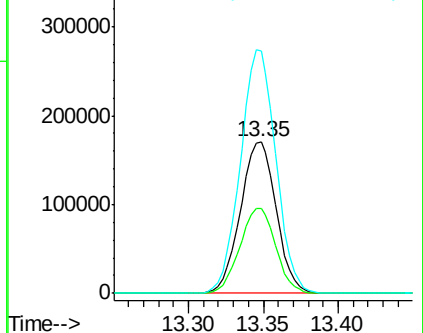
150 159.4 0.0 347.6



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: 31.28 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049978.D

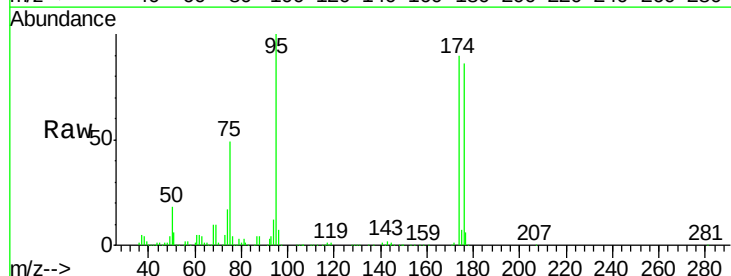
Acq: 20 Jul 2018 21:59

Tgt Ion: 75 Resp: 166562

Ion Ratio Lower Upper

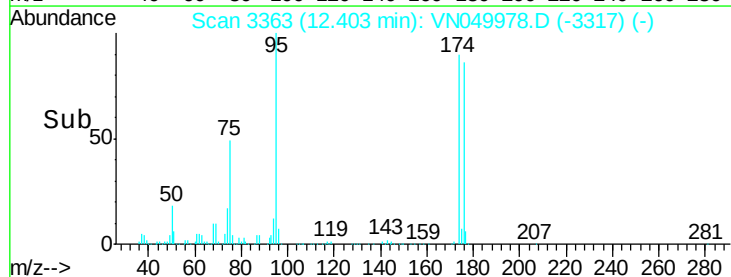
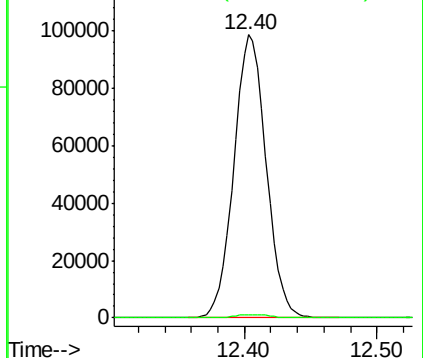
75 100

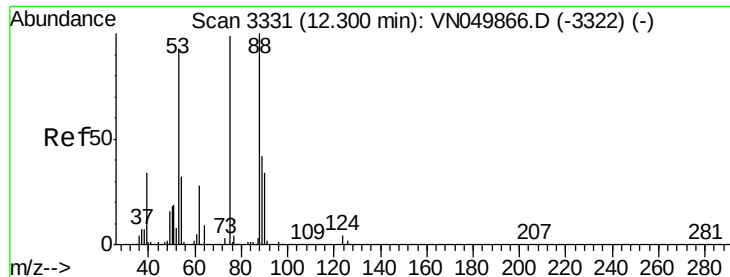
77 0.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 97.80 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049978.D

Acq: 20 Jul 2018 21:59

Instrument :

MSVOA_N

ClientSampled :

LS-SOIL-1

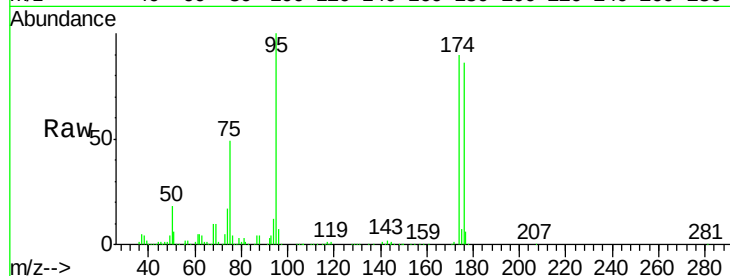
Tot Ion: 75 Resp: 166562

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

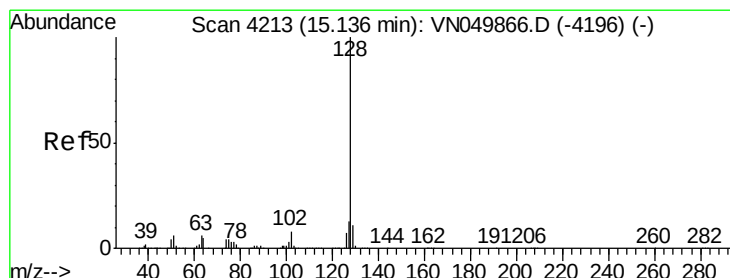
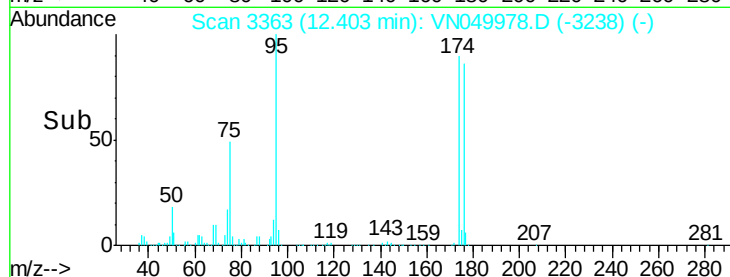
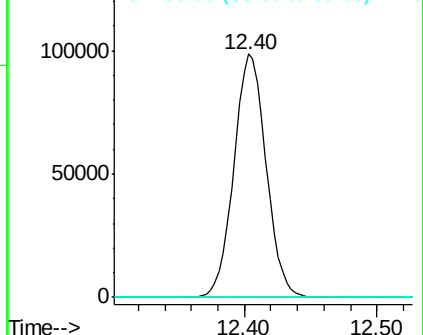
89 0.0 35.9 53.9#



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: 5.47 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049978.D

Acq: 20 Jul 2018 21:59

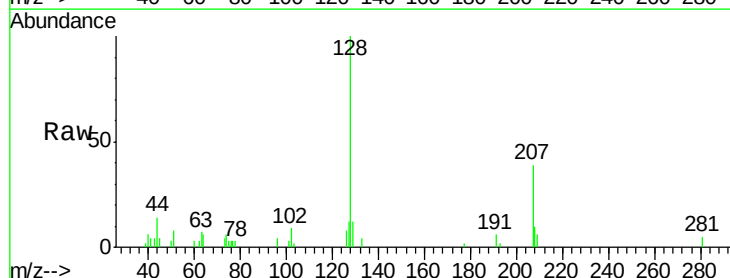
Tgt Ion: 128 Resp: 14484

Ion Ratio Lower Upper

128 100

127 13.9 10.4 15.6

129 11.0 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

