

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081318\
 Data File : VN050581.D
 Acq On : 13 Aug 2018 20:29
 Operator : MD\SY
 Sample : J4417-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-CUTTINGS

Quant Time: Aug 14 01:03:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	613539	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1016317	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	862774	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	311090	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	423634	51.68	ug/l	0.00
Spiked Amount			Recovery	=	103.36%	
35) Dibromofluoromethane	7.59	113	397517	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	
50) Toluene-d8	10.09	98	1396209	45.54	ug/l	0.00
Spiked Amount			Recovery	=	91.08%	
62) 4-Bromofluorobenzene	12.40	95	373150	35.71	ug/l	0.00
Spiked Amount			Recovery	=	71.42%	

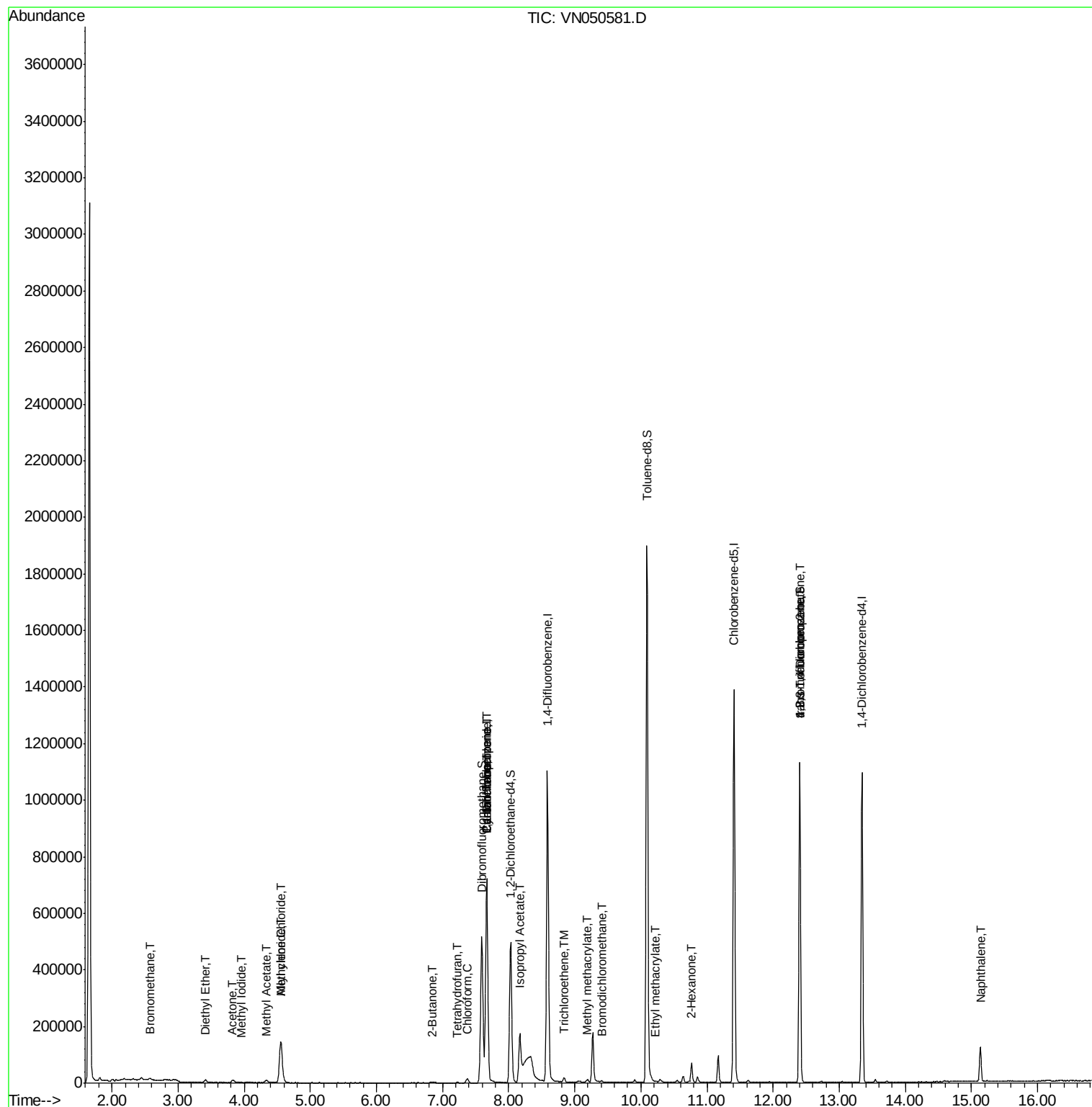
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3114	Below Cal		92
5) Bromomethane	2.57	94	3500	0.99 ug/l		87
8) Diethyl Ether	3.41	74	5012	1.20 ug/l		83
10) Methyl Iodide	3.95	142	914	0.29 ug/l #		65
14) Allyl chloride	4.56	41	4575	0.43 ug/l #		24
16) Acetone	3.82	43	17226	6.70 ug/l		99
18) Methyl Acetate	4.33	43	17207	2.53 ug/l		98
20) Methylene Chloride	4.55	84	117521	14.62 ug/l		98
25) 2-Butanone	6.84	43	3356	0.83 ug/l		91
29) Tetrahydrofuran	7.22	42	819	0.38 ug/l #		32
30) Chloroform	7.37	83	15363	1.15 ug/l		84
31) Cyclohexane	7.66	56	11274	0.33 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	41314	3.70 ug/l #		48
38) Carbon Tetrachloride	7.67	117	55578	4.77 ug/l #		17
43) Isopropyl Acetate	8.17	43	212291	15.29 ug/l		96
44) Trichloroethene	8.84	130	6134	0.66 ug/l		91
47) Bromodichloromethane	9.41	83	3666	0.32 ug/l #		82
48) Methyl methacrylate	9.19	41	6082	0.87 ug/l #		12
56) Ethyl methacrylate	10.23	69	1379	1.83 ug/l #		76
59) 2-Hexanone	10.77	43	9304	1.33 ug/l		64
76) 1,2,3-Trichloropropane	12.40	75	178707	31.74 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	178707	111.51 ug/l #		13
95) Naphthalene	15.14	128	106555	10.18 ug/l		99

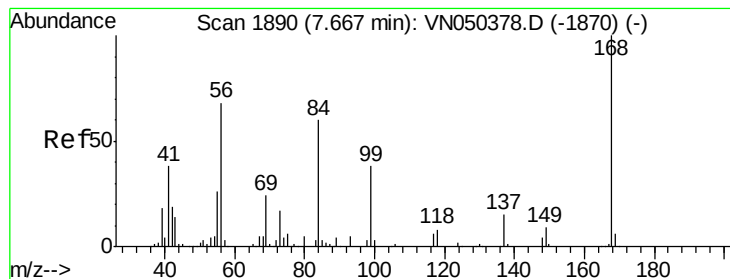
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050581.D

Acq: 13 Aug 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

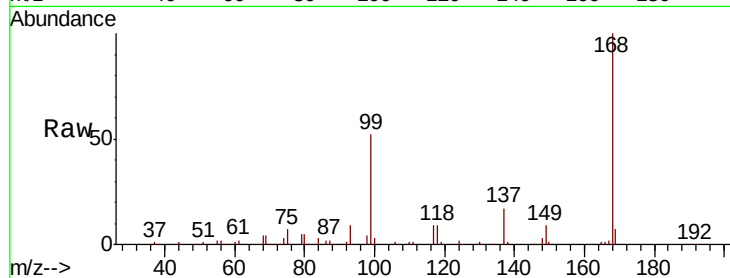
SOIL-CUTTINGS

Tot Ion:168 Resp: 613539

Ion Ratio Lower Upper

168 100

99 51.8 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

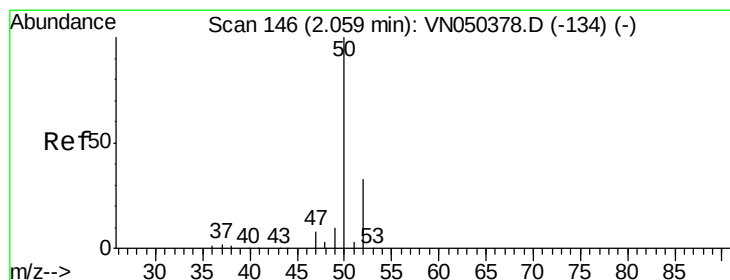
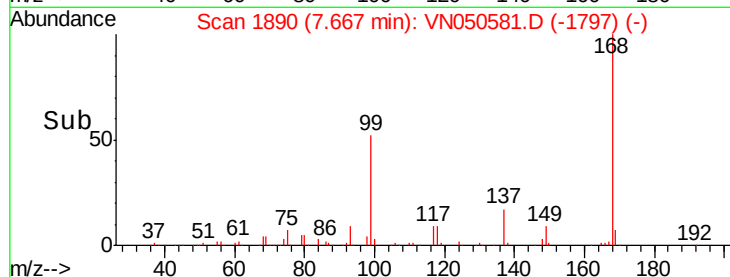
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050581.D

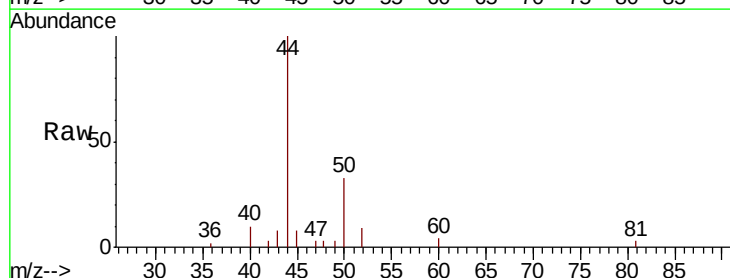
Acq: 13 Aug 2018 20:29

Tgt Ion: 50 Resp: 3114

Ion Ratio Lower Upper

50 100

52 27.9 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2500

2000

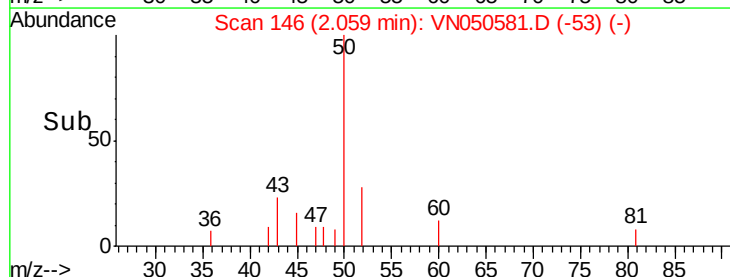
1500

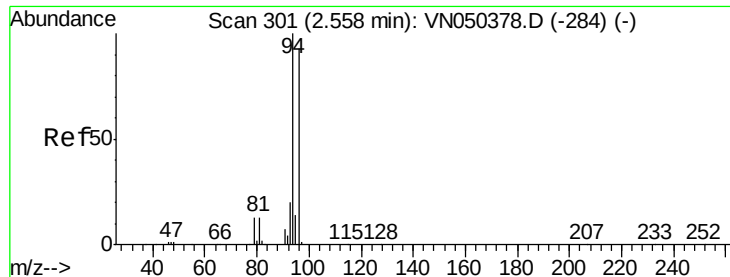
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.99 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050581.D

Acq: 13 Aug 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

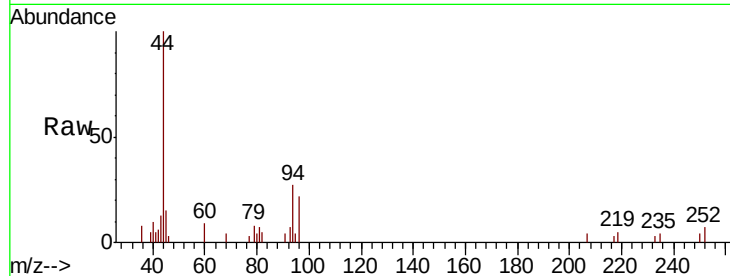
SOIL-CUTTINGS

Tot Ion: 94 Resp: 3500

Ion Ratio Lower Upper

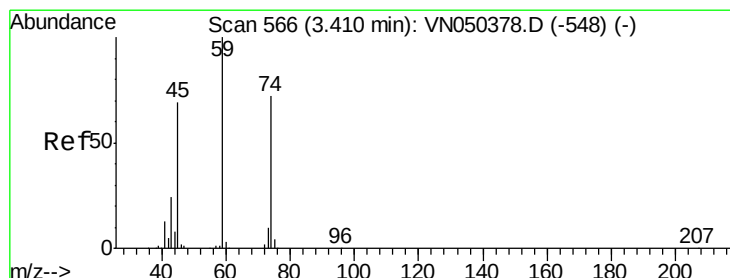
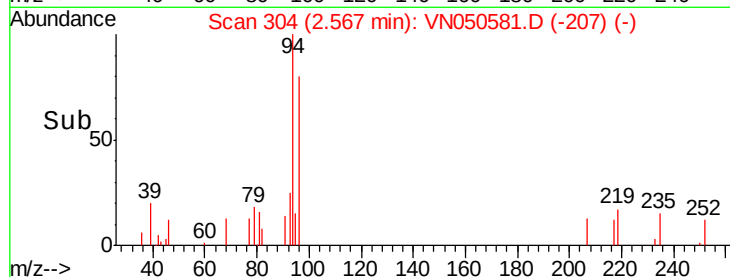
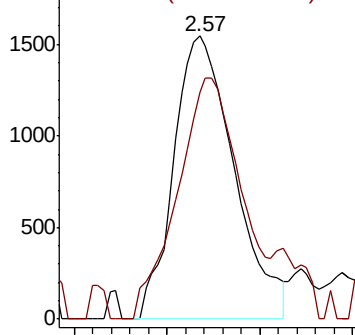
94 100

96 80.4 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#8

Diethyl Ether

Concen: 1.20 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN050581.D

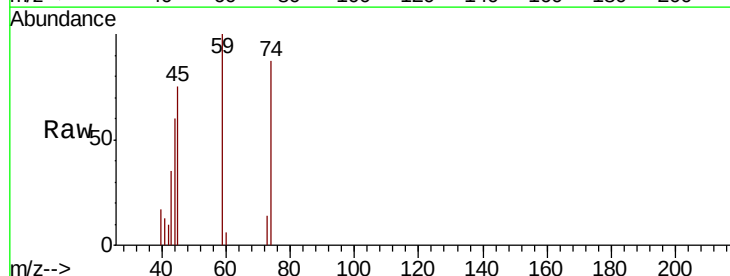
Acq: 13 Aug 2018 20:29

Tgt Ion: 74 Resp: 5012

Ion Ratio Lower Upper

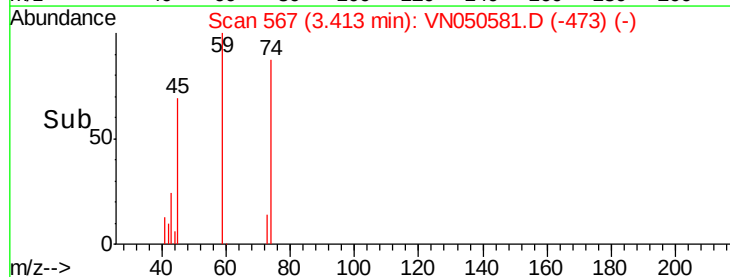
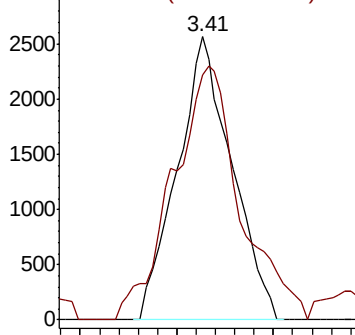
74 100

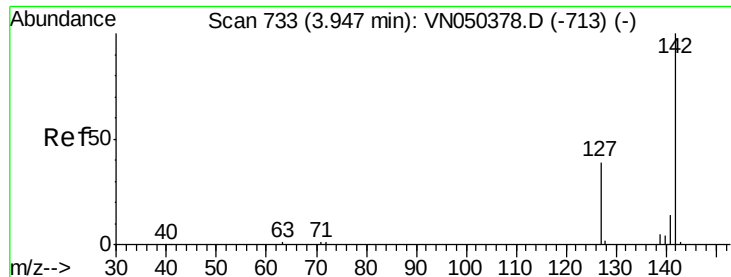
45 111.5 47.6 142.8



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

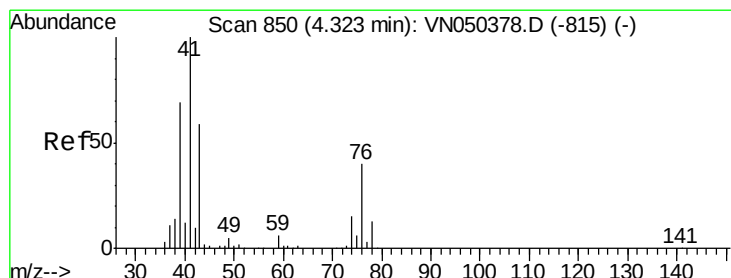
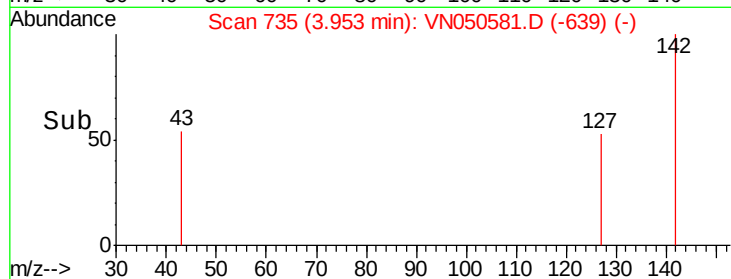
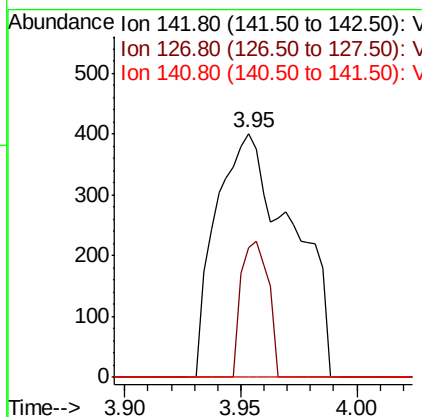
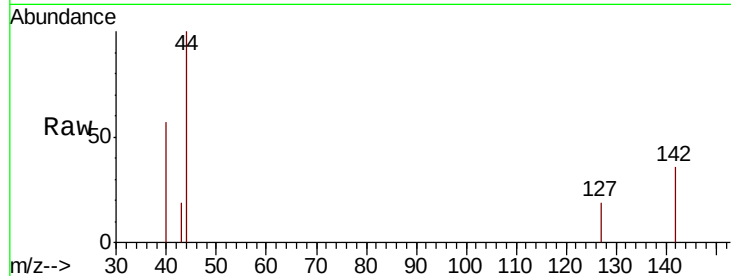




#10
Methvl Iodide
Concen: 0.29 ug/l
RT: 3.95 min Scan# 735
Delta R.T. 0.01 min
Lab File: VN050581.D
Acq: 13 Aug 2018 20:29

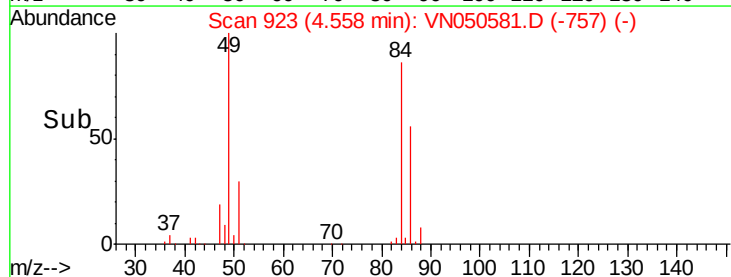
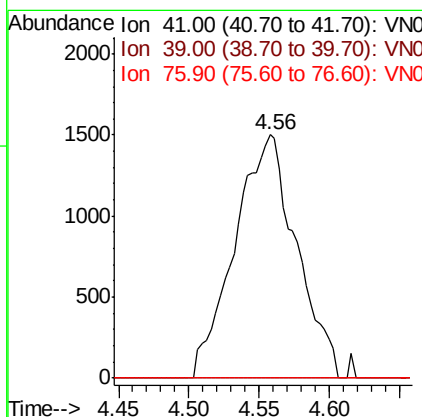
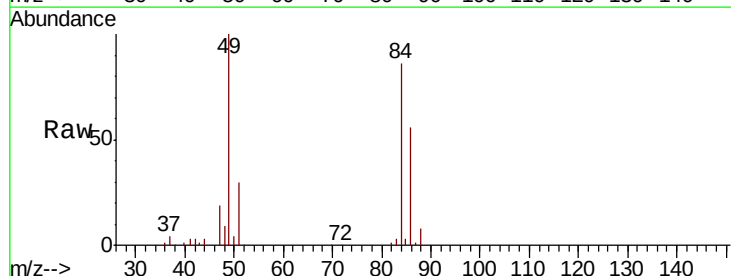
Instrument :
MSVOA_N
ClientSampleId :
SOIL-CUTTINGS

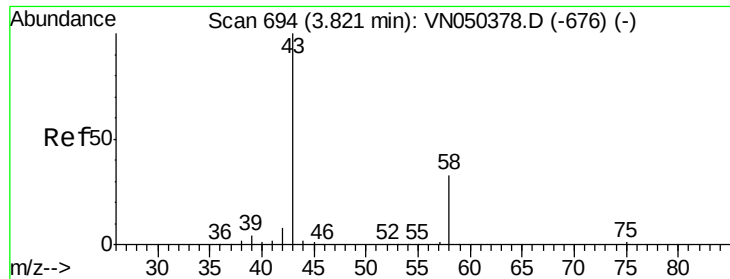
Tot Ion:142 Resp: 914
Ion Ratio Lower Upper
142 100
127 19.9 33.4 50.2#
141 0.0 11.6 17.4#



#14
Allyl chloride
Concen: 0.43 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.23 min
Lab File: VN050581.D
Acq: 13 Aug 2018 20:29

Tgt Ion: 41 Resp: 4575
Ion Ratio Lower Upper
41 100
39 0.0 54.2 81.4#
76 0.0 29.0 43.6#





#16

Acetone

Concen: 6.70 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN050581.D

Acq: 13 Aug 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

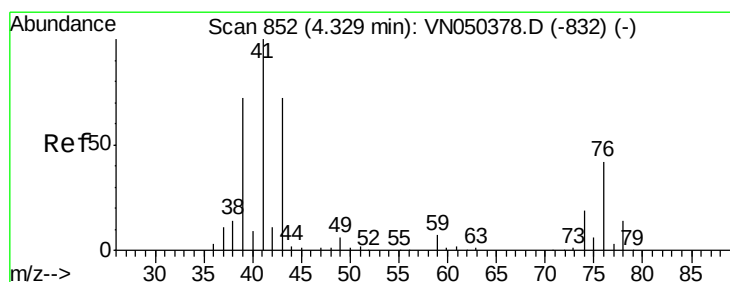
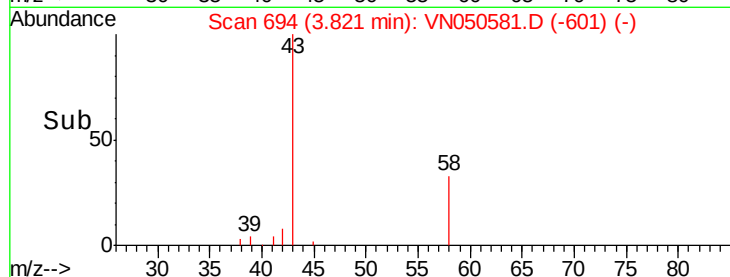
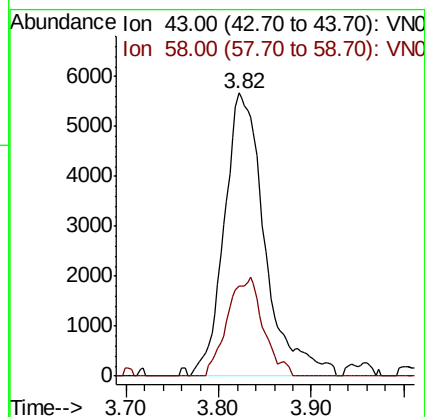
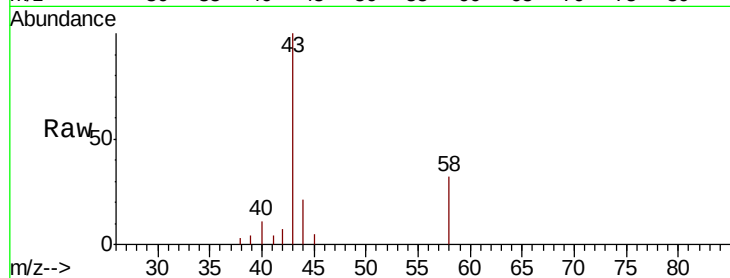
SOIL-CUTTINGS

Tot Ion: 43 Resp: 17226

Ion Ratio Lower Upper

43 100

58 31.8 25.8 38.8



#18

Methyl Acetate

Concen: 2.53 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.00 min

Lab File: VN050581.D

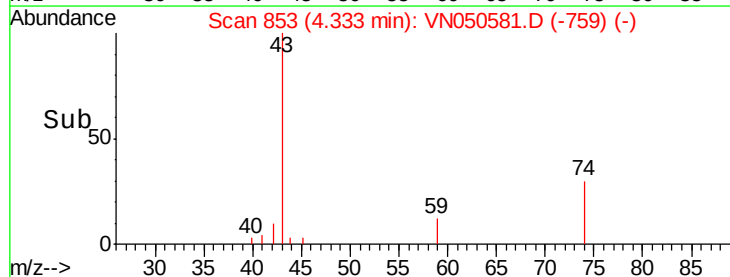
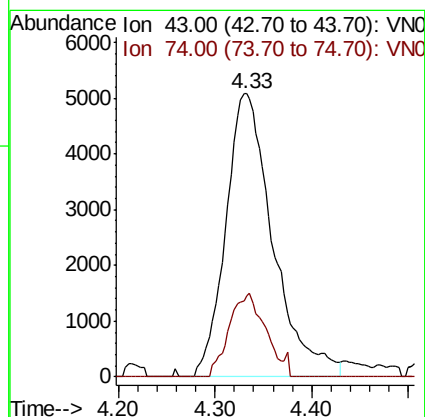
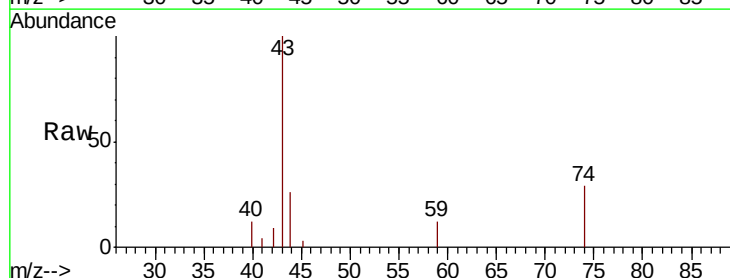
Acq: 13 Aug 2018 20:29

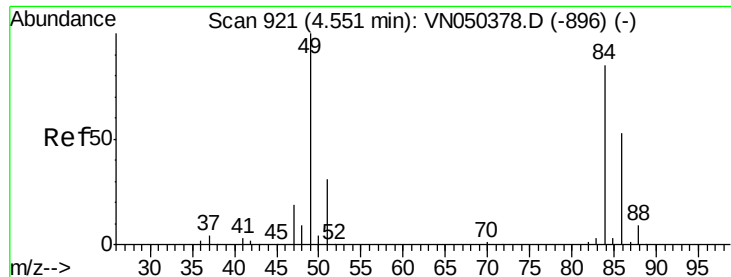
Tgt Ion: 43 Resp: 17207

Ion Ratio Lower Upper

43 100

74 23.0 19.2 28.8

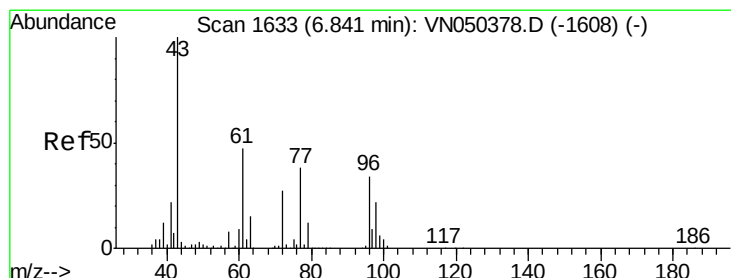
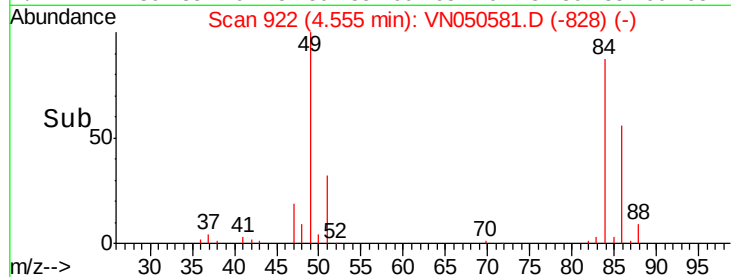
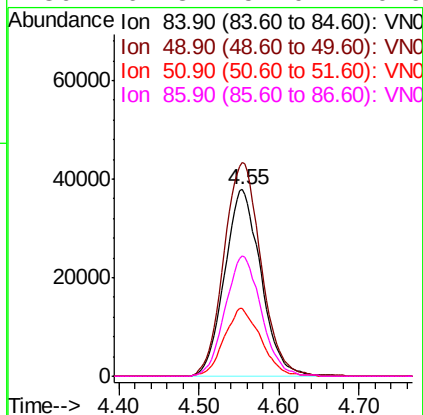
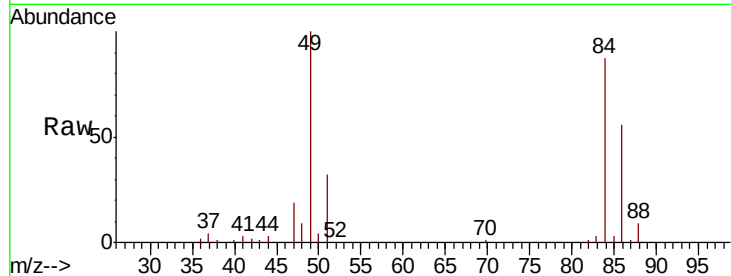




#20
Methvlene Chloride
Concen: 14.62 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050581.D
Acq: 13 Aug 2018 20:29

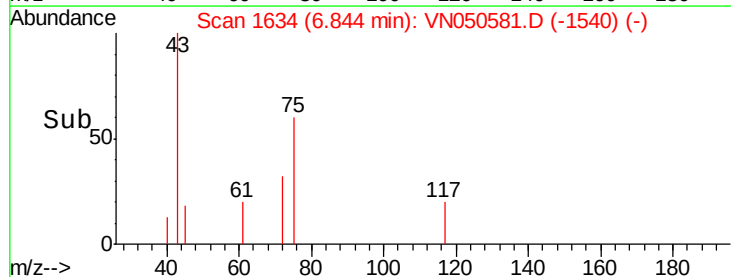
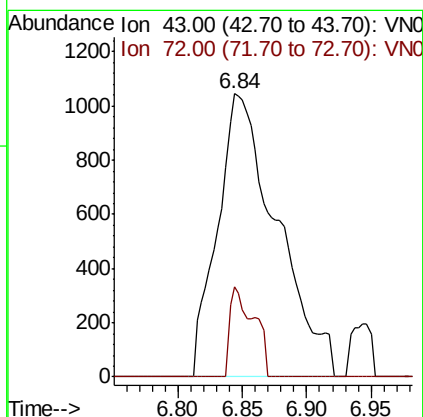
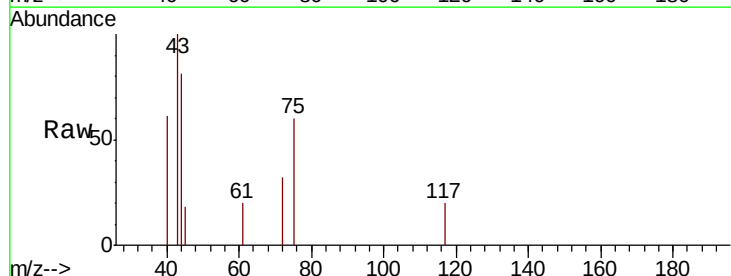
Instrument :
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SOIL-CUTTINGS

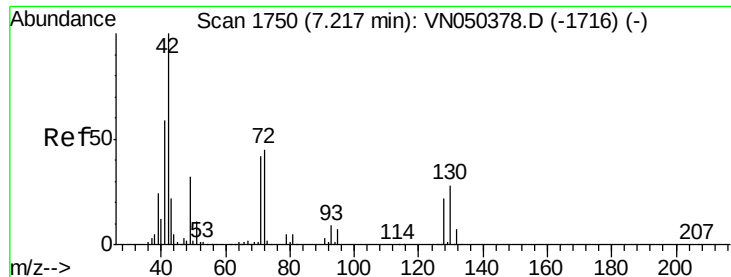
Tot Ion:	84	Resp:	117521
Ion	Ratio	Lower	Upper
84	100		
49	114.3	94.8	142.2
51	36.1	28.3	42.5
86	64.3	51.0	76.6



#25
2-Butanone
Concen: 0.83 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN050581.D
Acq: 13 Aug 2018 20:29

Tgt Ion:	43	Resp:	3356
Ion	Ratio	Lower	Upper
43	100		
72	31.8	21.5	32.3





#29

Tetrahydrofuran

Concen: 0.38 ug/l

RT: 7.22 min Scan# 1750

Delta R.T. -0.00 min

Lab File: VN050581.D

Acq: 13 Aug 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

SOIL-CUTTINGS

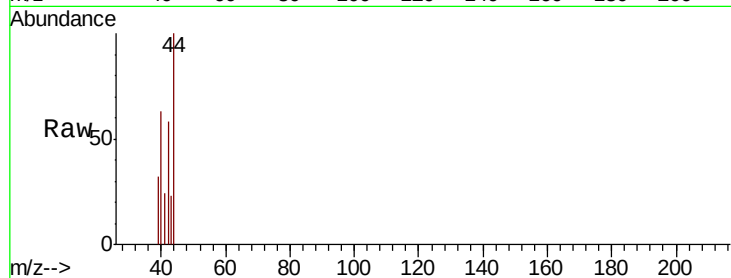
Tot Ion: 42 Resp: 819

Ion Ratio Lower Upper

42 100

72 0.0 35.9 53.9#

71 0.0 33.7 50.5#



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

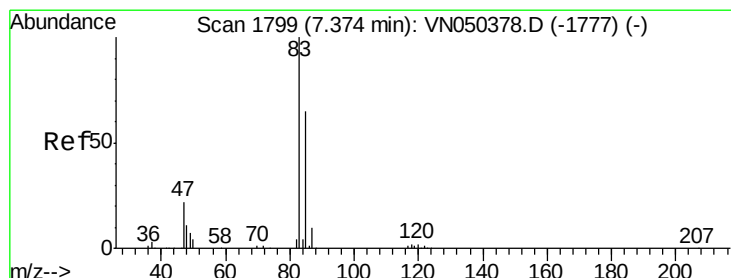
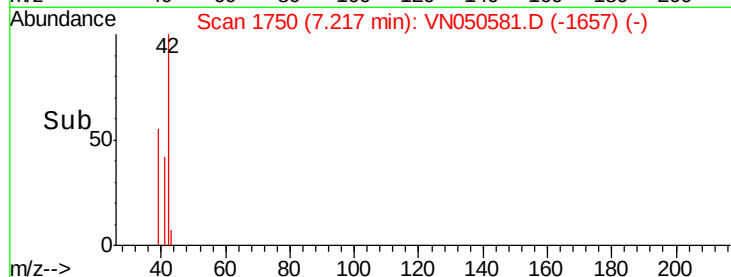
7.22

400

200

0

Time--> 7.18 7.20 7.22 7.24 7.26



#30

Chloroform

Concen: 1.15 ug/l

RT: 7.37 min Scan# 1798

Delta R.T. -0.00 min

Lab File: VN050581.D

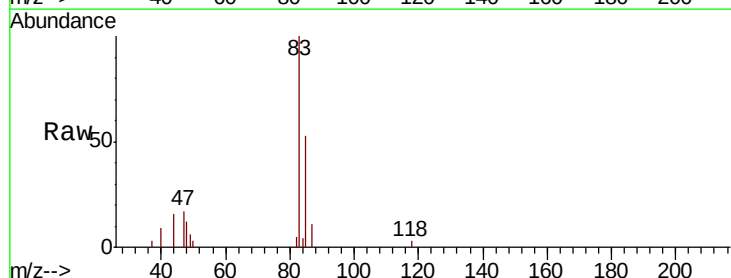
Acq: 13 Aug 2018 20:29

Tgt Ion: 83 Resp: 15363

Ion Ratio Lower Upper

83 100

85 53.3 52.5 78.7



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

7.37

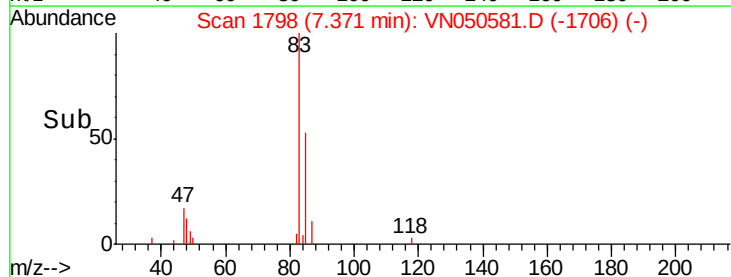
6000

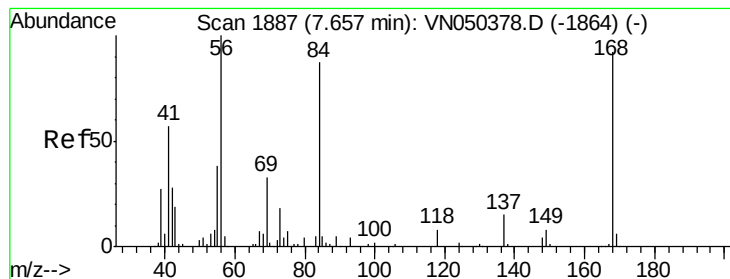
4000

2000

0

Time--> 7.30 7.35 7.40 7.45





#31

Cyclohexane

Concen: 0.33 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

Lab File: VN050581.D

Acq: 13 Aug 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

SOIL-CUTTINGS

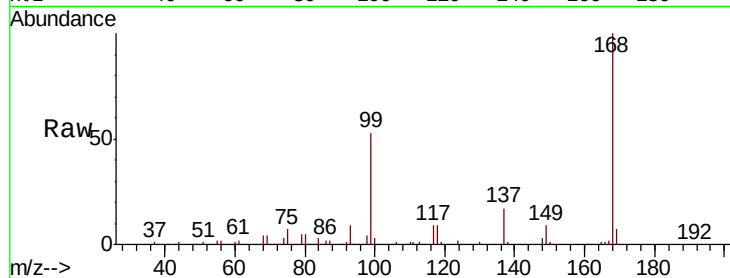
Tot Ion: 56 Resp: 11274

Ion Ratio Lower Upper

56 100

69 196.5 26.2 39.4#

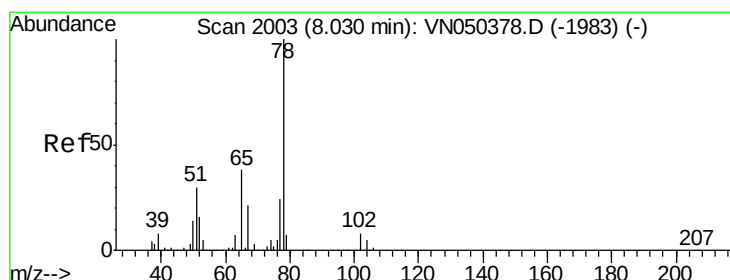
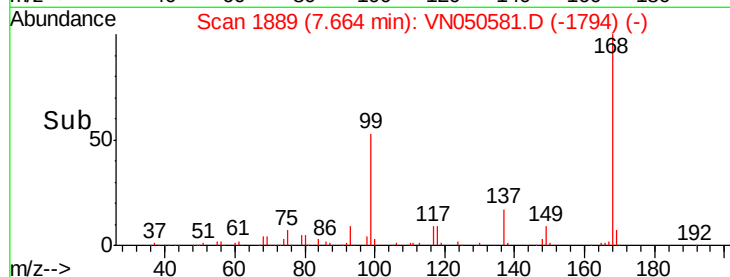
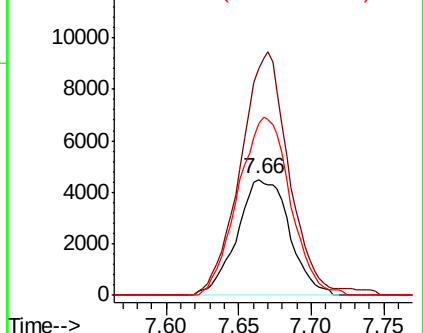
84 148.5 67.4 101.0#



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: 51.68 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050581.D

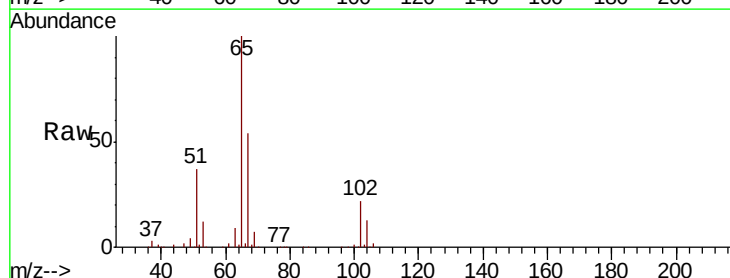
Acq: 13 Aug 2018 20:29

Tgt Ion: 65 Resp: 423634

Ion Ratio Lower Upper

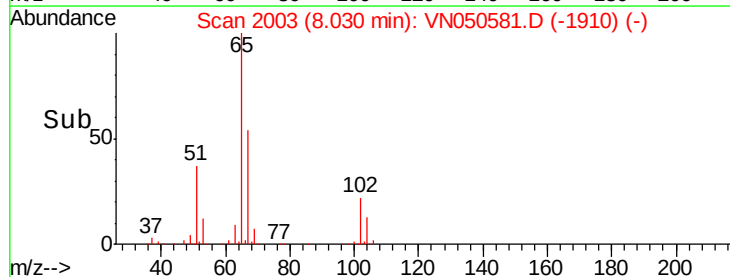
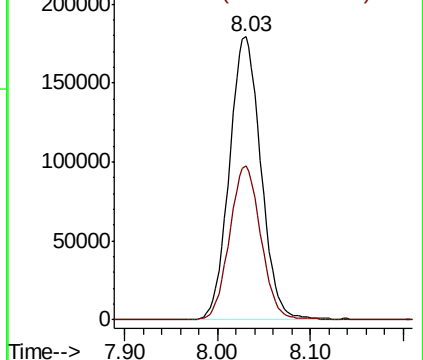
65 100

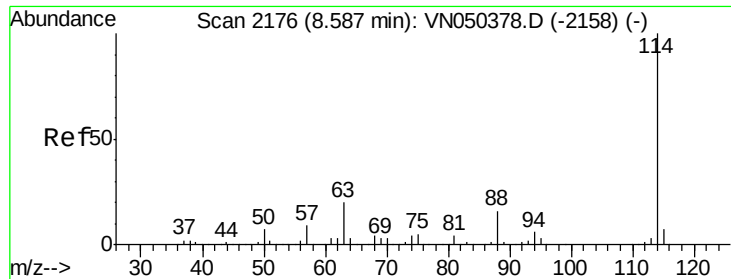
67 54.2 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



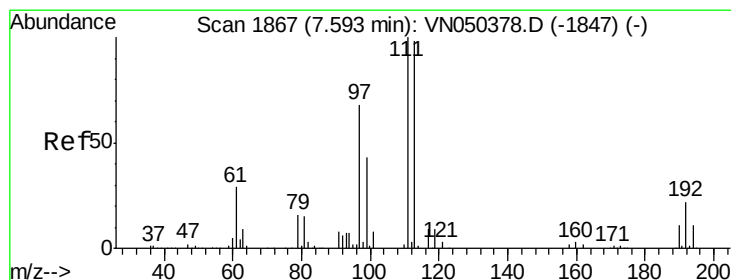
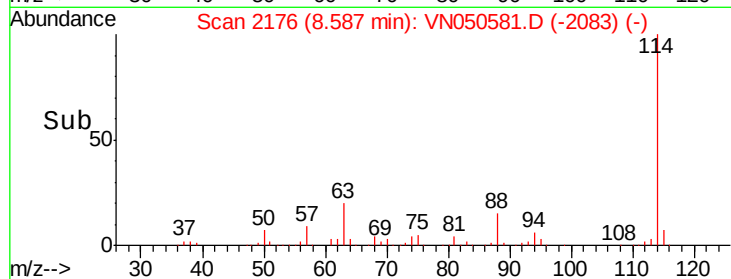
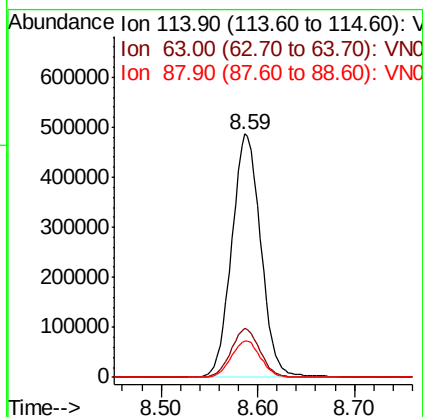
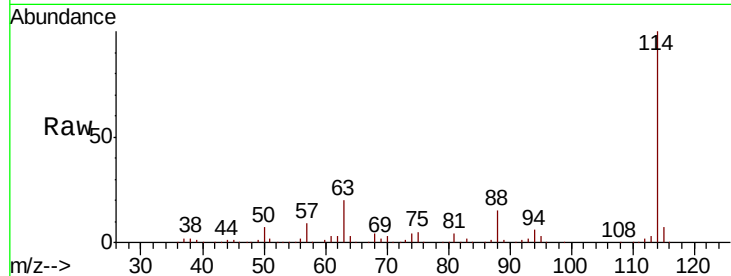


#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050581.D
 Acq: 13 Aug 2018 20:29

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-CUTTINGS

Tot Ion:114 Resp: 1016317

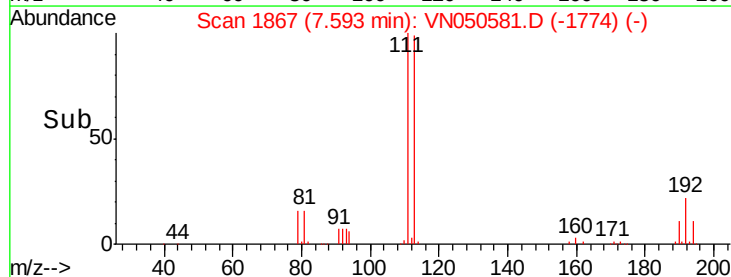
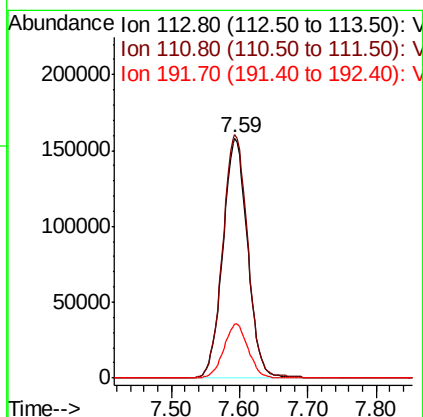
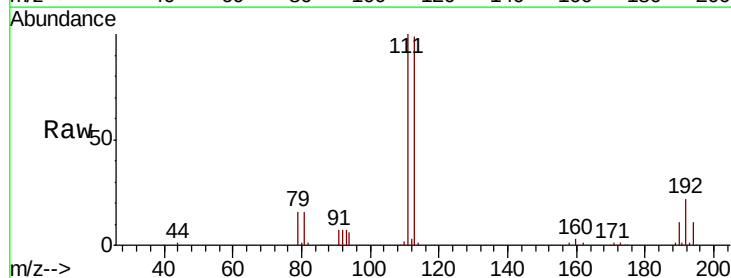
Ion	Ratio	Lower	Upper
114	100		
63	19.9	0.0	40.0
88	15.1	0.0	31.2

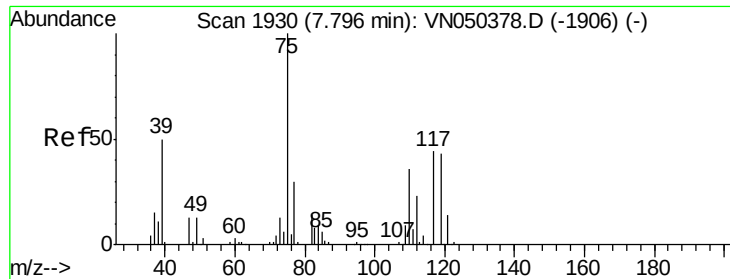


#35
 Dibromofluoromethane
 Concen: 48.75 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050581.D
 Acq: 13 Aug 2018 20:29

Tgt Ion:113 Resp: 397517

Ion	Ratio	Lower	Upper
113	100		
111	102.7	80.7	121.1
192	22.3	17.8	26.6

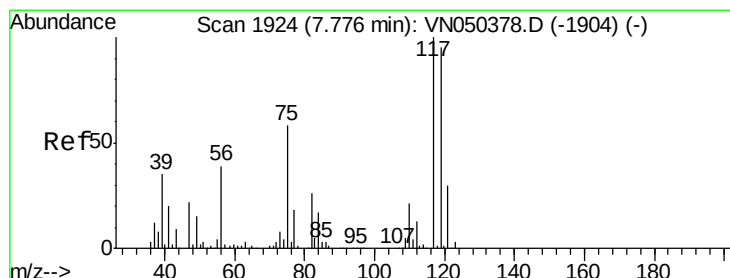
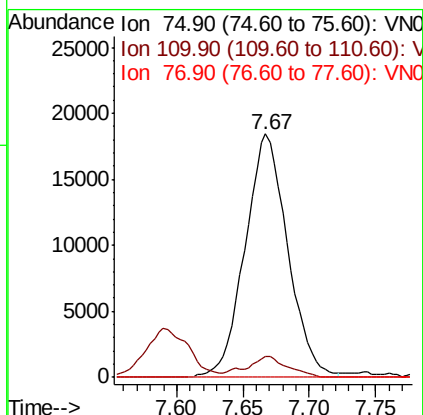
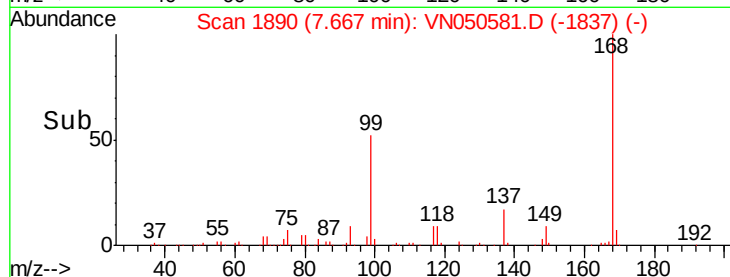
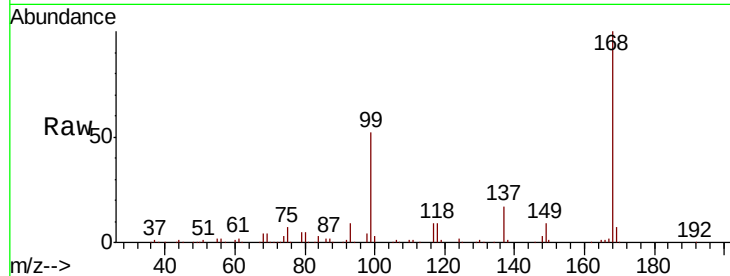




#36
 1,1-Dichloropropene
 Concen: 3.70 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050581.D
 Acq: 13 Aug 2018 20:29

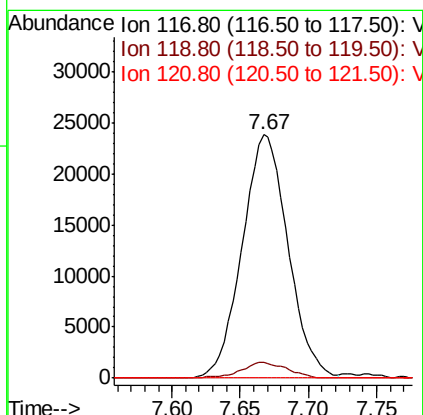
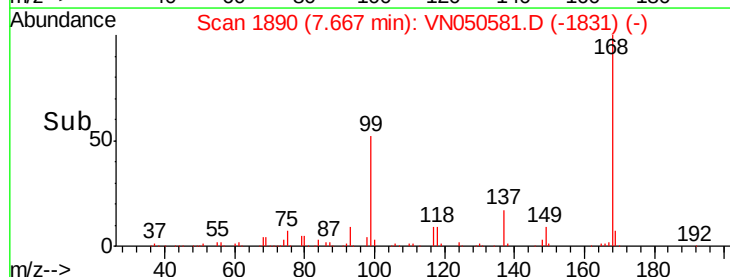
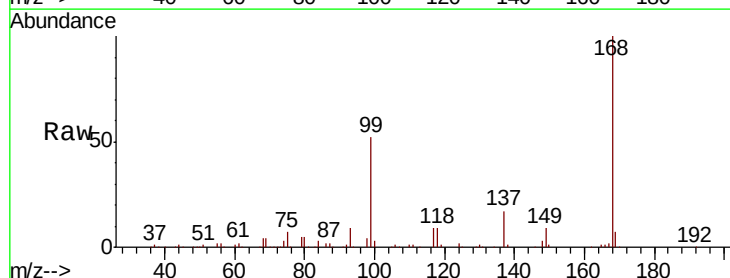
Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-CUTTINGS

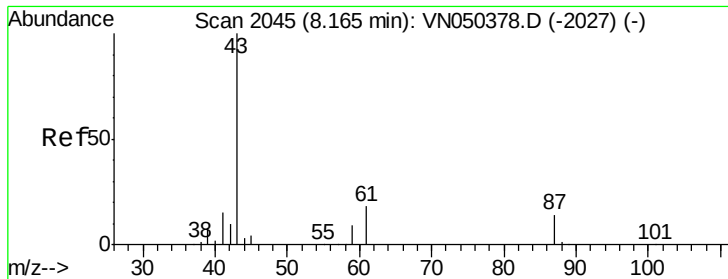
Tot Ion: 75 Resp: 41314
 Ion Ratio Lower Upper
 75 100
 110 8.2 18.4 55.2#
 77 0.0 25.3 37.9#



#38
 Carbon Tetrachloride
 Concen: 4.77 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN050581.D
 Acq: 13 Aug 2018 20:29

Tgt Ion: 117 Resp: 55578
 Ion Ratio Lower Upper
 117 100
 119 6.4 77.4 116.0#
 121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 15.29 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050581.D

Acq: 13 Aug 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

SOIL-CUTTINGS

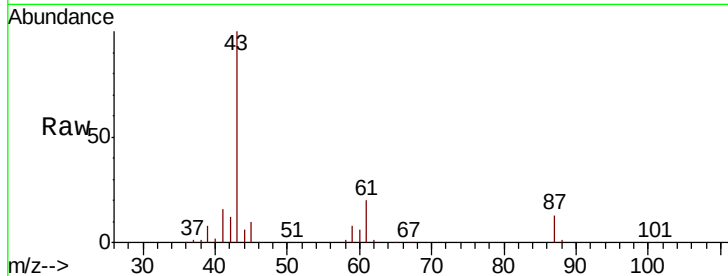
Tot Ion: 43 Resp: 212291

Ion Ratio Lower Upper

43 100

61 17.7 15.8 23.6

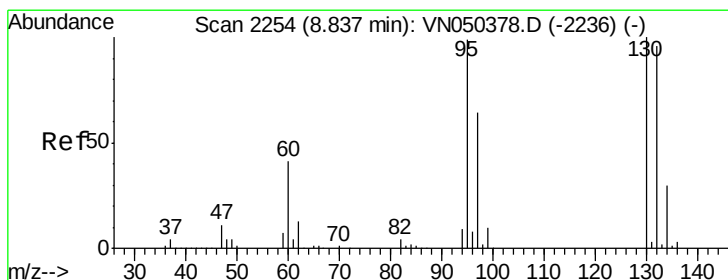
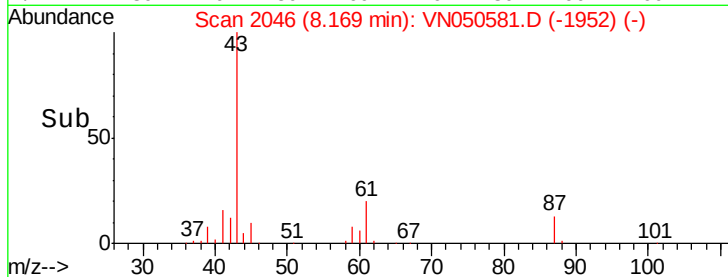
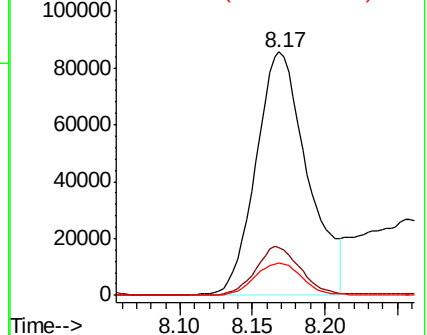
87 12.1 10.3 15.5



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



#44

Trichloroethene

Concen: 0.66 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. -0.00 min

Lab File: VN050581.D

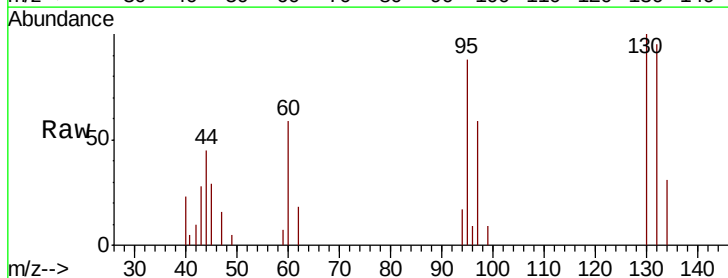
Acq: 13 Aug 2018 20:29

Tgt Ion:130 Resp: 6134

Ion Ratio Lower Upper

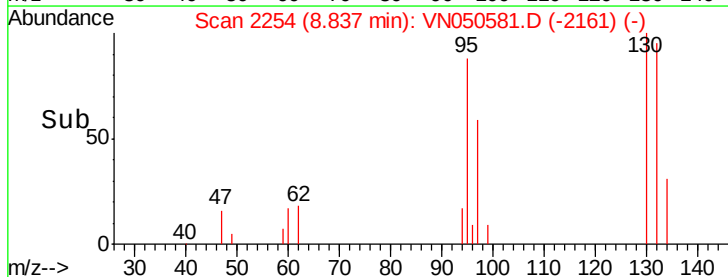
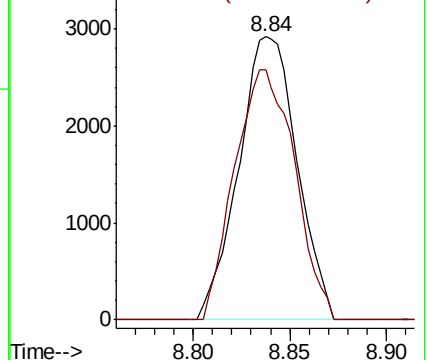
130 100

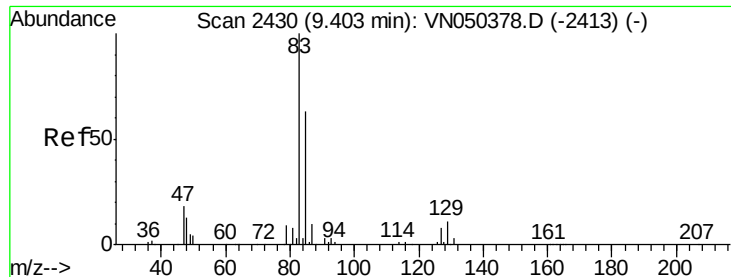
95 88.2 0.0 194.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

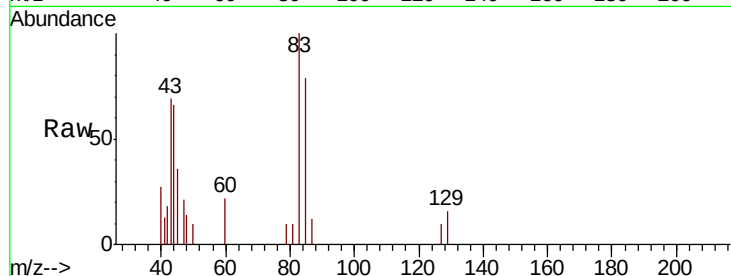




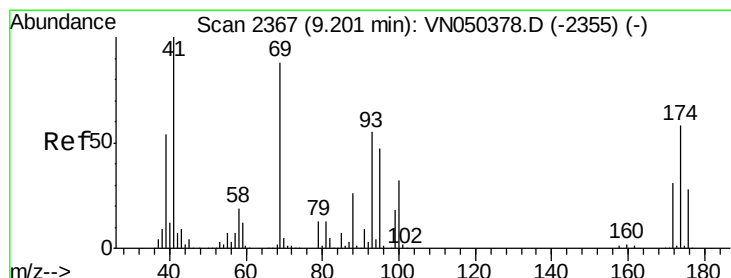
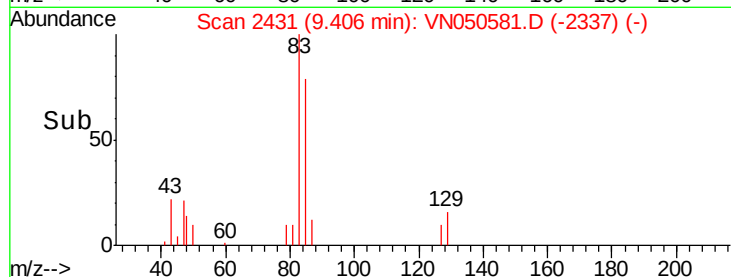
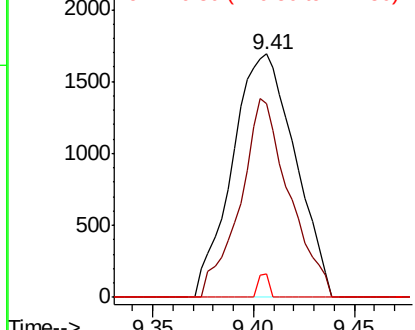
#47
 Bromodichloromethane
 Concen: 0.32 ug/l
 RT: 9.41 min Scan# 2431
 Delta R.T. 0.00 min
 Lab File: VN050581.D
 Acq: 13 Aug 2018 20:29

Instrument :
 MSVOA_N
 ClientSampleId :
 SOIL-CUTTINGS

Tot Ion: 83 Resp: 3666
 Ion Ratio Lower Upper
 83 100
 85 79.4 51.1 76.7#
 127 9.8 7.0 10.4

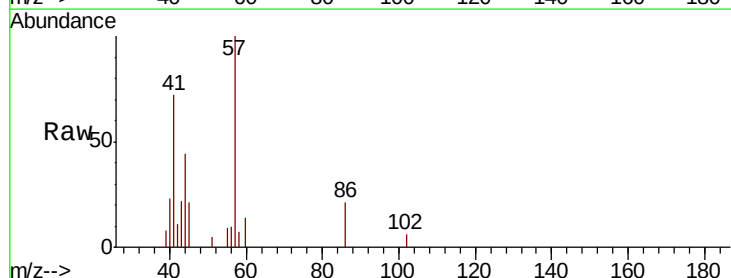


Abundance Ion 82.90 (82.60 to 83.60): VNO
 Ion 84.90 (84.60 to 85.60): VNO
 Ion 126.80 (126.50 to 127.50): VNO

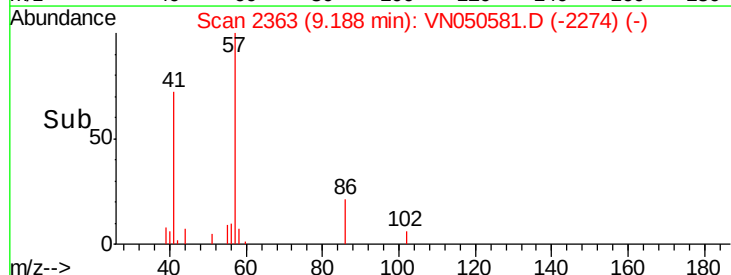
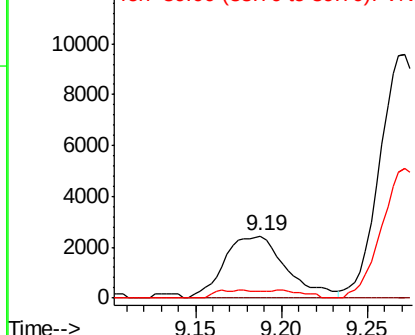


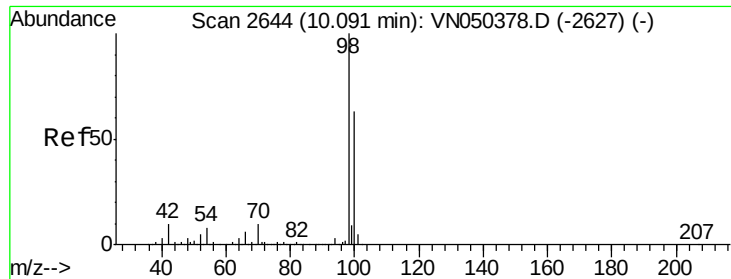
#48
 Methyl methacrylate
 Concen: 0.87 ug/l
 RT: 9.19 min Scan# 2363
 Delta R.T. -0.01 min
 Lab File: VN050581.D
 Acq: 13 Aug 2018 20:29

Tgt Ion: 41 Resp: 6082
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.6 105.8#
 39 0.0 43.9 65.9#



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

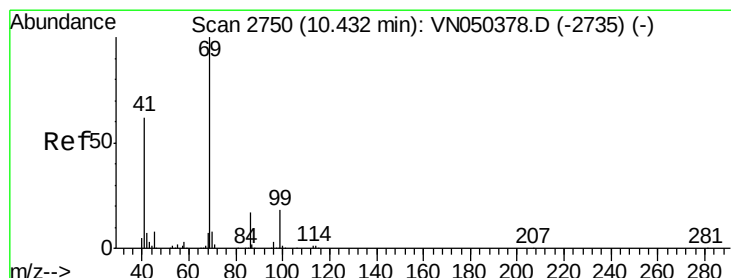
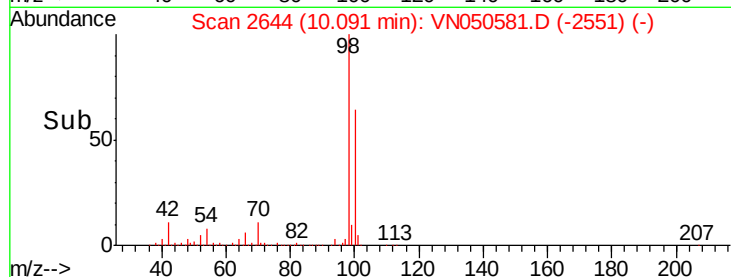
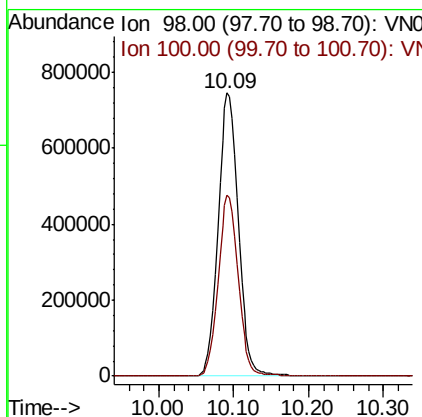
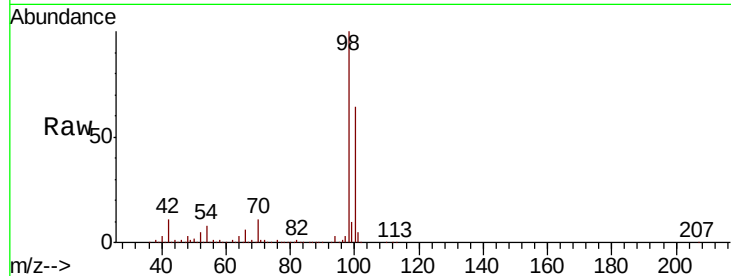




#50
Toluene-d8
Concen: 45.54 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050581.D
Acq: 13 Aug 2018 20:29

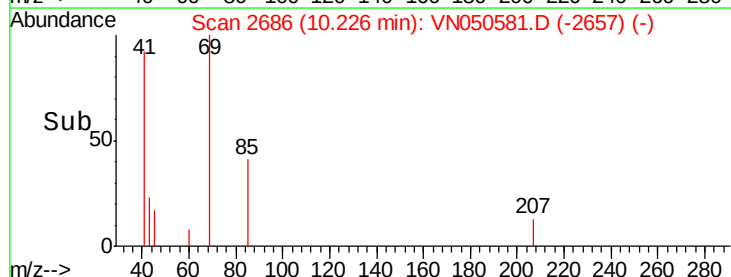
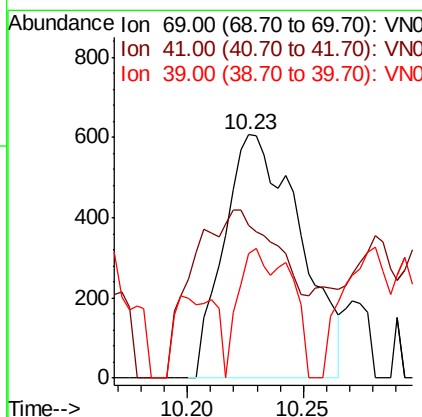
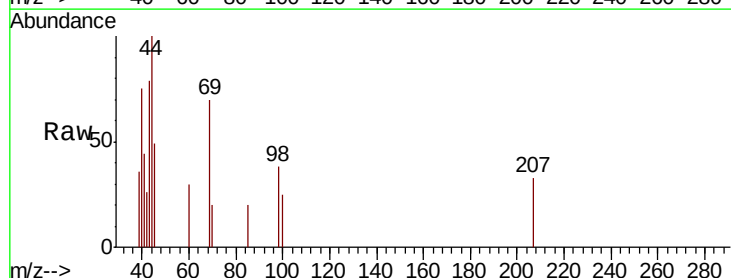
Instrument :
MSVOA_N
ClientSampleId :
SOIL-CUTTINGS

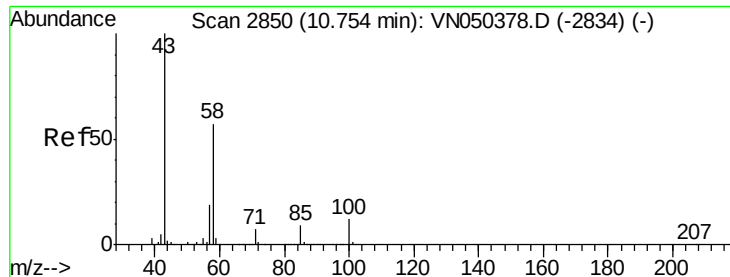
Tot Ion: 98 Resp: 1396209
Ion Ratio Lower Upper
98 100
100 63.4 50.7 76.1



#56
Ethyl methacrylate
Concen: 1.83 ug/l
RT: 10.23 min Scan# 2686
Delta R.T. -0.21 min
Lab File: VN050581.D
Acq: 13 Aug 2018 20:29

Tgt Ion: 69 Resp: 1379
Ion Ratio Lower Upper
69 100
41 83.9 51.0 76.4#
39 22.0 26.6 40.0#





#59

2-Hexanone

Concen: 1.33 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050581.D

Acq: 13 Aug 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

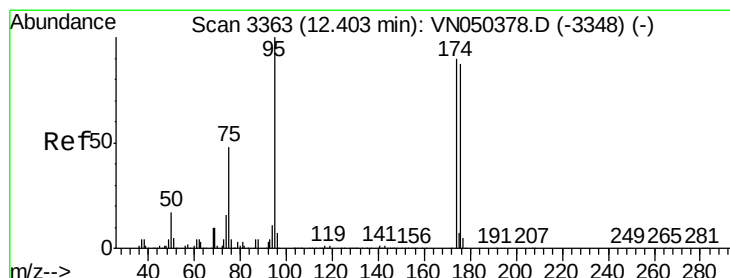
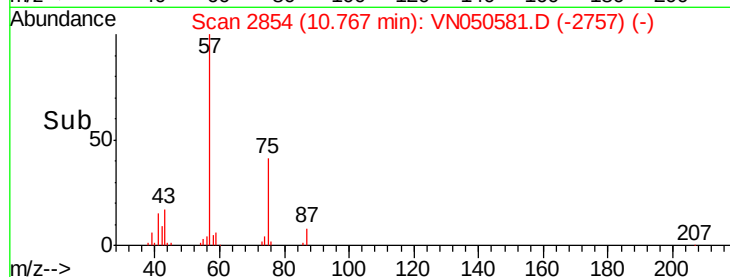
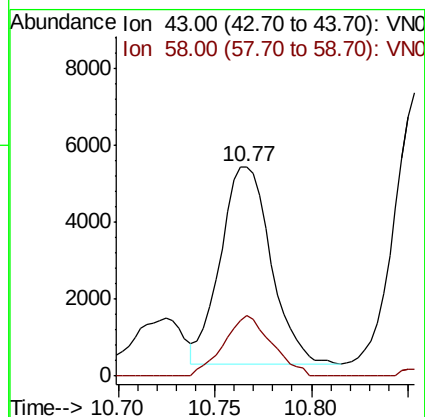
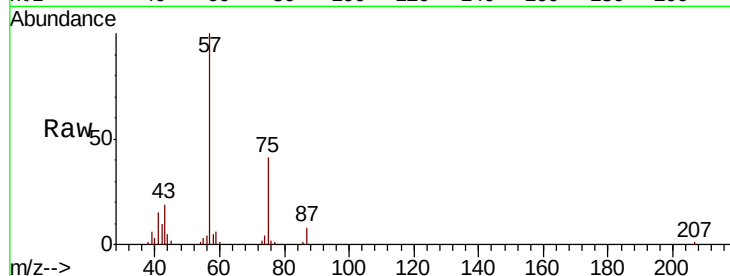
SOIL-CUTTINGS

Tot Ion: 43 Resp: 9304

Ion Ratio Lower Upper

43 100

58 29.2 27.6 82.7



#62

4-Bromofluorobenzene

Concen: 35.71 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050581.D

Acq: 13 Aug 2018 20:29

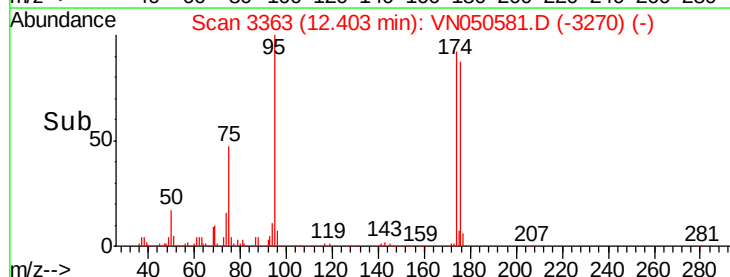
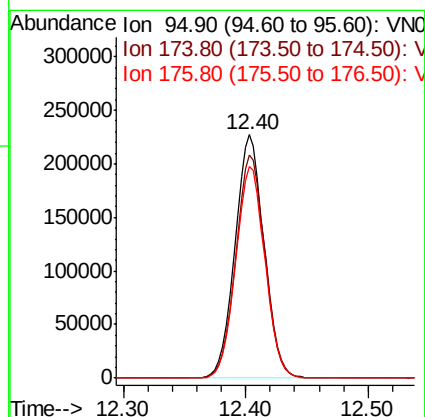
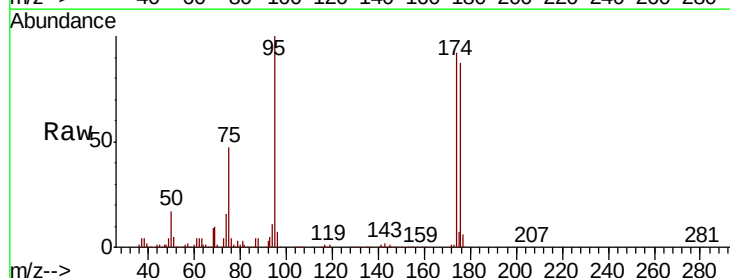
Tgt Ion: 95 Resp: 373150

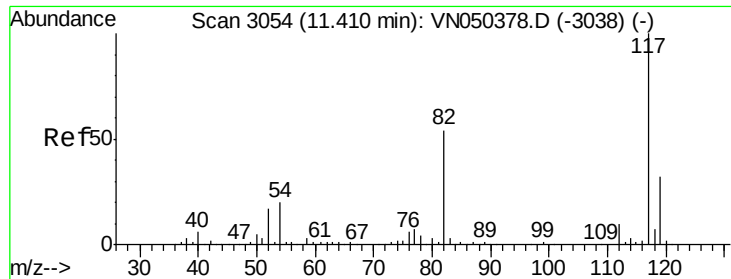
Ion Ratio Lower Upper

95 100

174 92.9 0.0 178.2

176 87.8 0.0 173.4

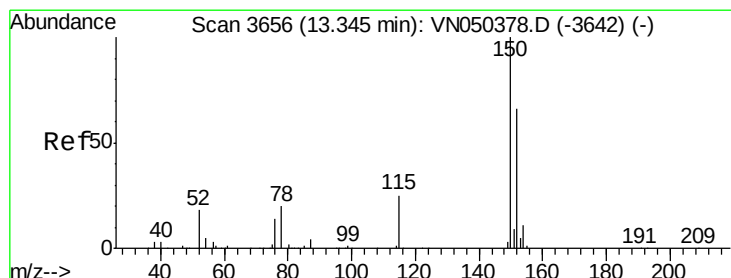
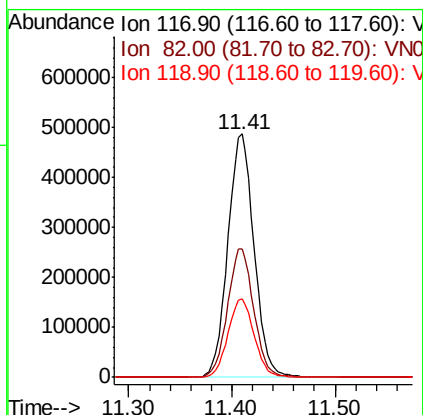
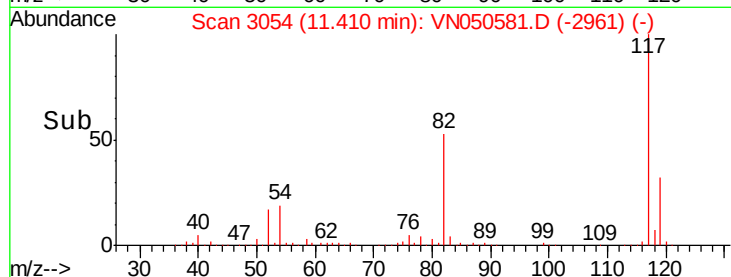
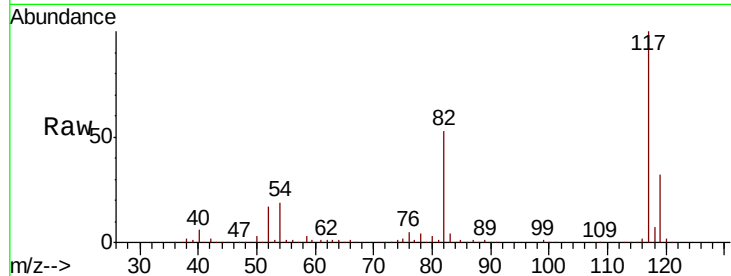




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050581.D
Acq: 13 Aug 2018 20:29

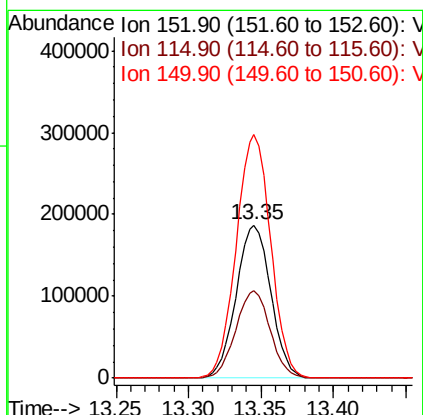
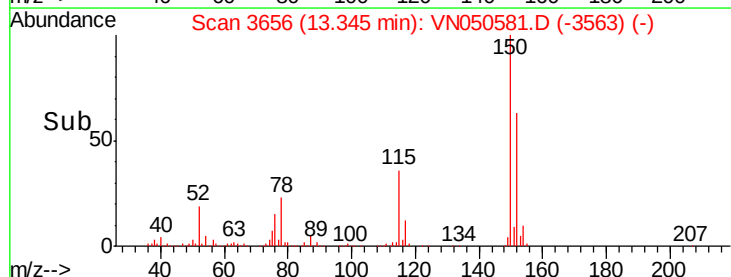
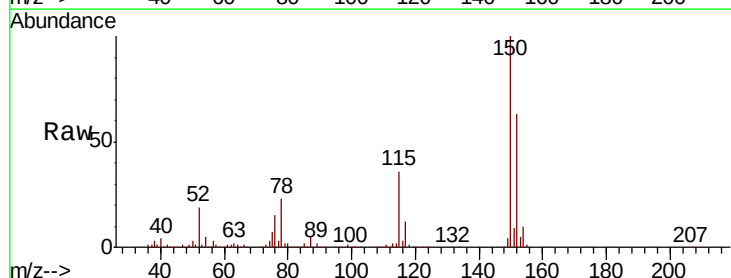
Instrument :
MSVOA_N
ClientSampleId :
SOIL-CUTTINGS

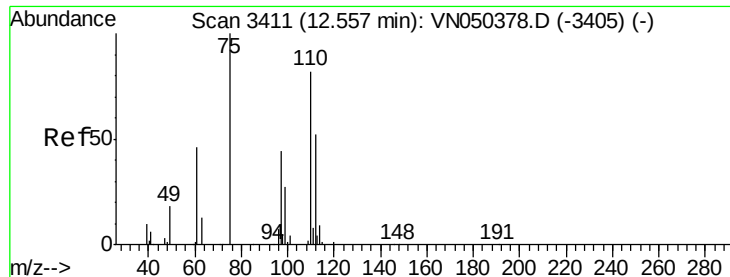
Tot Ion:117 Resp: 862774
Ion Ratio Lower Upper
117 100
82 53.0 43.7 65.5
119 32.0 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. -0.00 min
Lab File: VN050581.D
Acq: 13 Aug 2018 20:29

Tgt Ion:152 Resp: 311090
Ion Ratio Lower Upper
152 100
115 56.3 27.8 83.3
150 158.1 0.0 348.6





#76

1,2,3-Trichloropropane

Concen: 31.74 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050581.D

Acq: 13 Aug 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

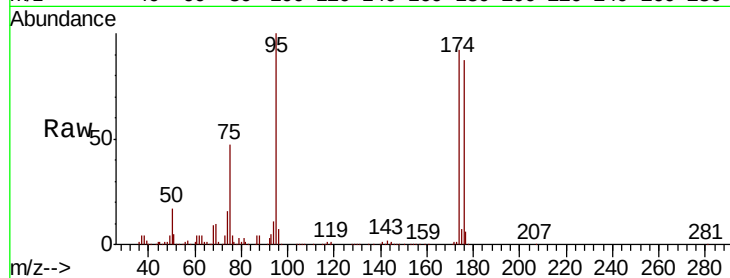
SOIL-CUTTINGS

Tot Ion: 75 Resp: 178707

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

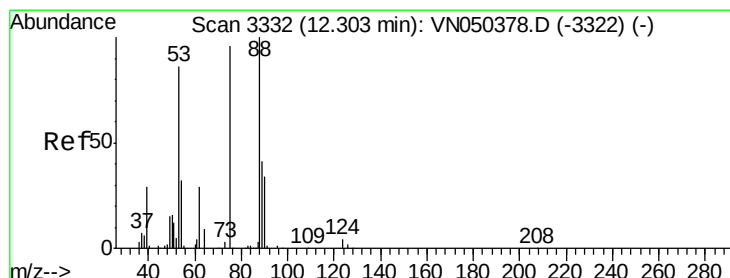
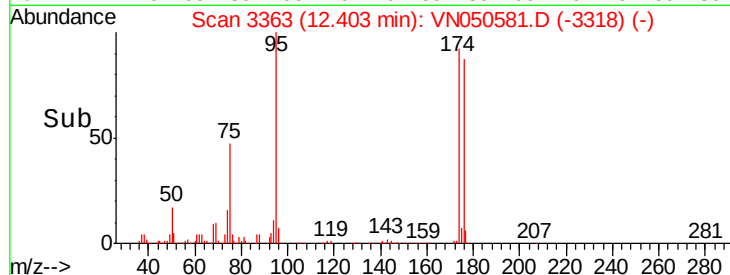
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 111.51 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050581.D

Acq: 13 Aug 2018 20:29

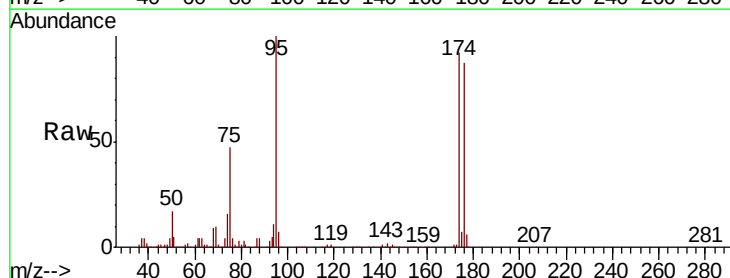
Tgt Ion: 75 Resp: 178707

Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

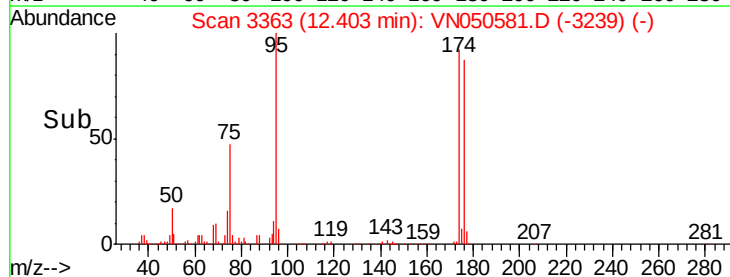
Ion 88.90 (88.60 to 89.60): VN0

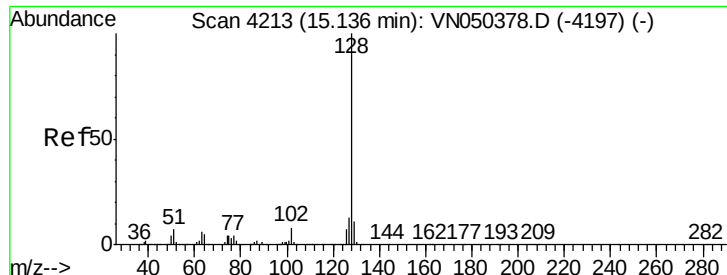
100000

50000

0

Time-->





#95

Naphthalene

Concen: 10.18 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050581.D

Acq: 13 Aug 2018 20:29

Instrument :

MSVOA_N

ClientSampleId :

SOIL-CUTTINGS

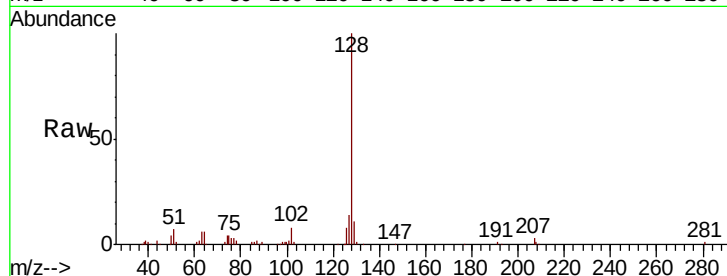
Tot Ion:128 Resp: 106555

Ion Ratio Lower Upper

128 100

127 13.7 10.4 15.6

129 11.3 8.8 13.2



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

