

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091218\  
 Data File : VN051152.D  
 Acq On : 12 Sep 2018 15:00  
 Operator : MD\SY  
 Sample : J4853-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CS-SOIL

Quant Time: Sep 13 07:20:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 11 02:27:09 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 594286   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 954964   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 816784   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 285546   | 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   | 378433   | 57.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.44% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 360285   | 50.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.42% |          |
| 50) Toluene-d8              | 10.09 | 98   | 1302101  | 47.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.64%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 351942   | 39.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 78.14%  |          |

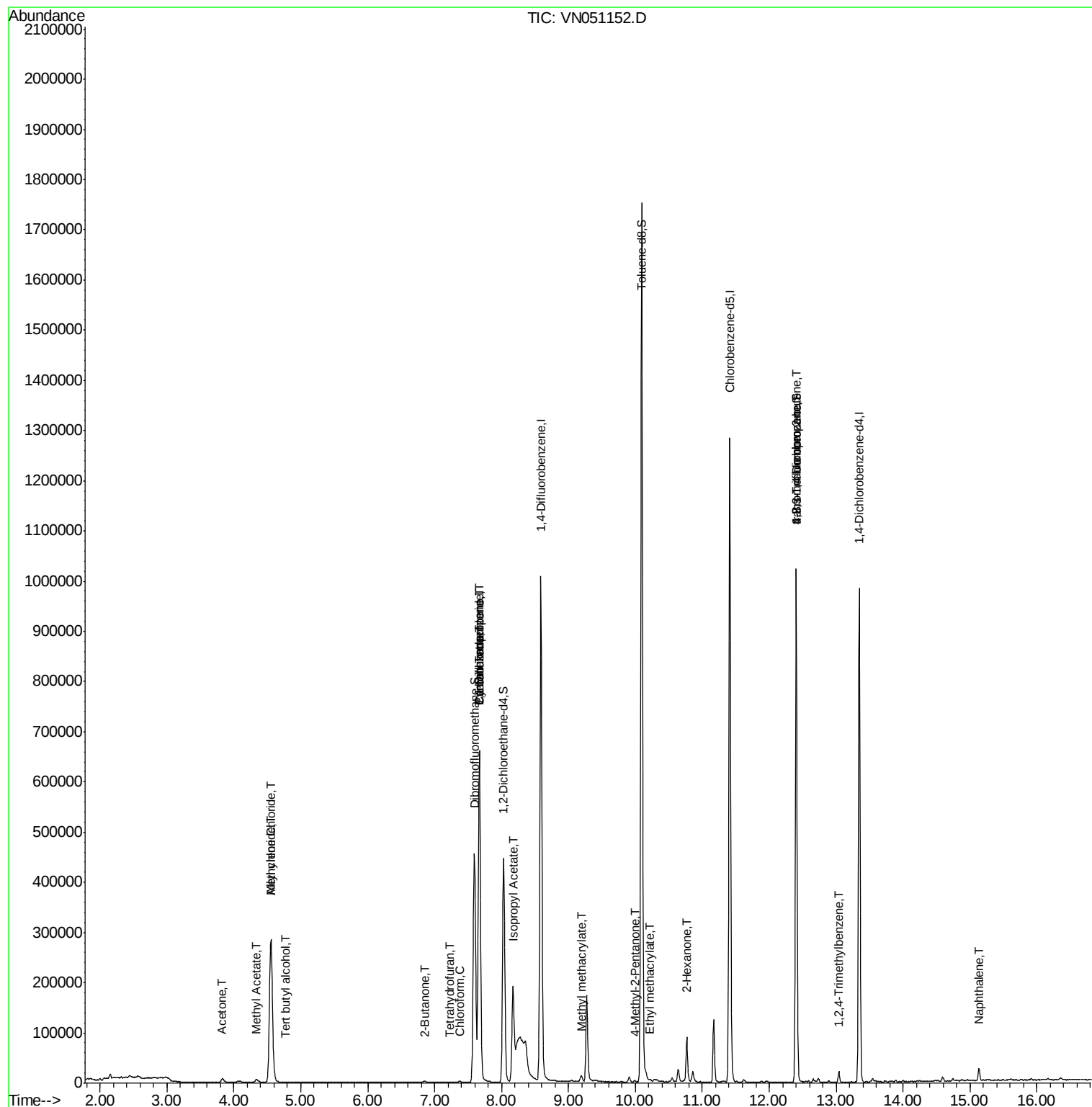
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.06  | 50   | 2076     | Below Cal |        | 89     |
| 5) Bromomethane                | 2.57  | 94   | 2121     | Below Cal |        | 92     |
| 11) Tert butyl alcohol         | 4.78  | 59   | 176      | 0.35      | ug/l # | 73     |
| 14) Allyl chloride             | 4.55  | 41   | 8488     | 0.88      | ug/l # | 26     |
| 16) Acetone                    | 3.83  | 43   | 14194    | 2.91      | ug/l   | 92     |
| 18) Methyl Acetate             | 4.33  | 43   | 13614    | 2.57      | ug/l   | 91     |
| 20) Methylene Chloride         | 4.55  | 84   | 238753   | 32.68     | ug/l   | 99     |
| 25) 2-Butanone                 | 6.85  | 43   | 2400     | 0.92      | ug/l # | 46     |
| 29) Tetrahydrofuran            | 7.22  | 42   | 965      | 0.59      | ug/l # | 71     |
| 30) Chloroform                 | 7.36  | 83   | 3520     | 0.29      | ug/l # | 82     |
| 31) Cyclohexane                | 7.67  | 56   | 9628     | 0.66      | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.67  | 75   | 36829    | 3.51      | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.67  | 117  | 50749    | 4.92      | ug/l # | 18     |
| 43) Isopropyl Acetate          | 8.17  | 43   | 239518   | 22.35     | ug/l # | 84     |
| 48) Methyl methacrylate        | 9.19  | 41   | 7215     | 1.38      | ug/l # | 14     |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 1845     | 0.31      | ug/l   | 92     |
| 56) Ethyl methacrylate         | 10.23 | 69   | 1166     | 2.57      | ug/l # | 68     |
| 59) 2-Hexanone                 | 10.77 | 43   | 12270    | 3.05      | ug/l # | 56     |
| 76) 1,2,3-Trichloropropane     | 12.40 | 75   | 162706   | 36.35     | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.40 | 75   | 162706   | 108.22    | ug/l # | 15     |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 12340    | 0.65      | ug/l   | 100    |
| 90) Hexachloroethane           | 13.89 | 117  | 164      | Below Cal | #      | 2      |
| 95) Naphthalene                | 15.13 | 128  | 21670    | 7.14      | ug/l   | 98     |

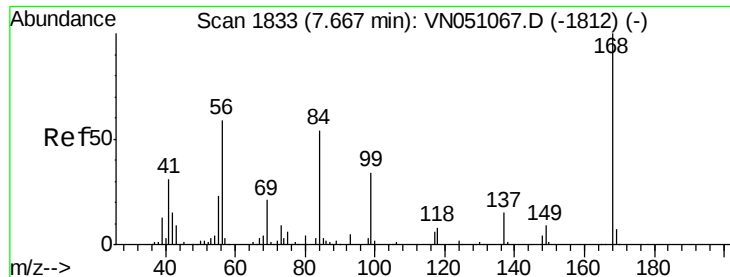
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091218\  
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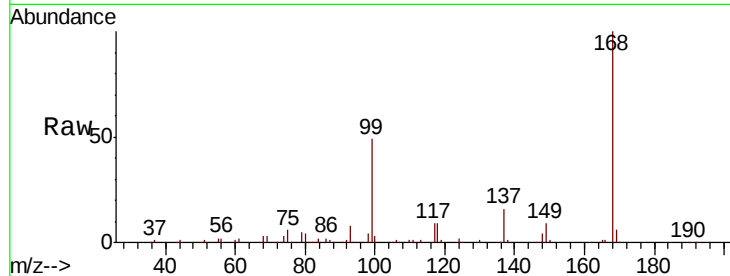


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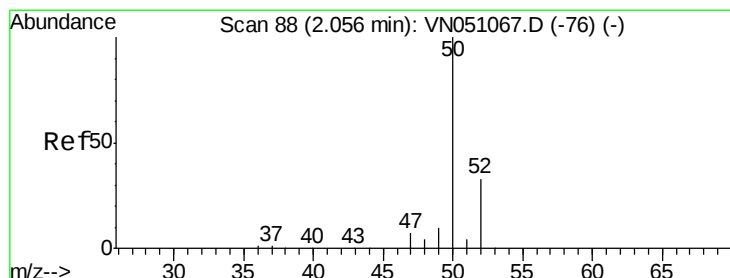
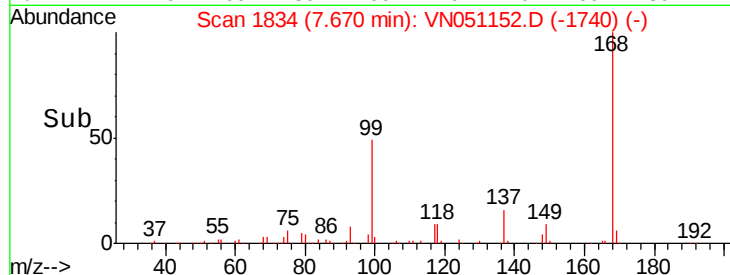
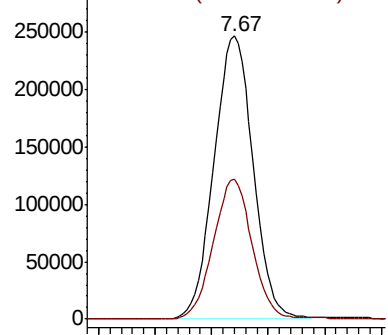
Pentafluorobenzene  
 Concen: 50.00 ug/l  
 RT: 7.67 min Scan# 1834  
 Delta R.T. 0.00 min  
 Lab File: VN051152.D  
 Acq: 12 Sep 2018 15:00

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 CS-SOIL

Tot Ion:168 Resp: 594286  
 Ion Ratio Lower Upper  
 168 100  
 99 49.3 38.3 57.5



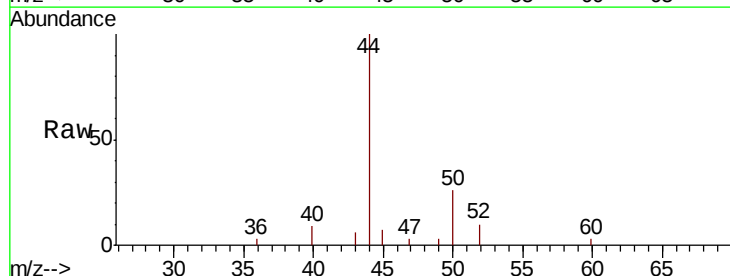
Abundance Ion 167.90 (167.60 to 168.60): V  
 Ion 98.90 (98.60 to 99.60): VNO



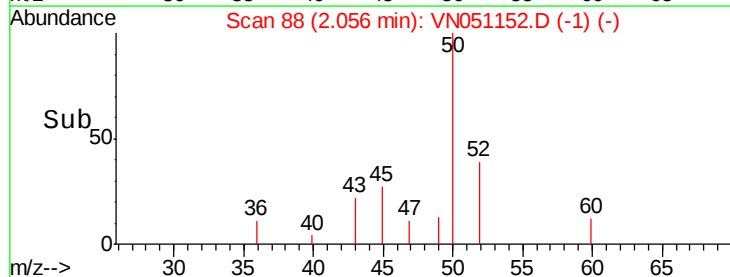
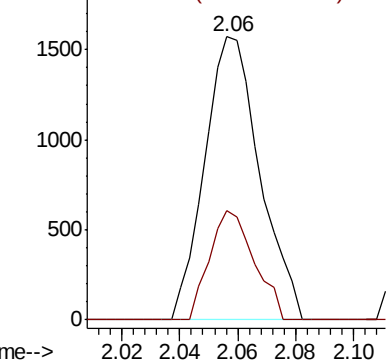
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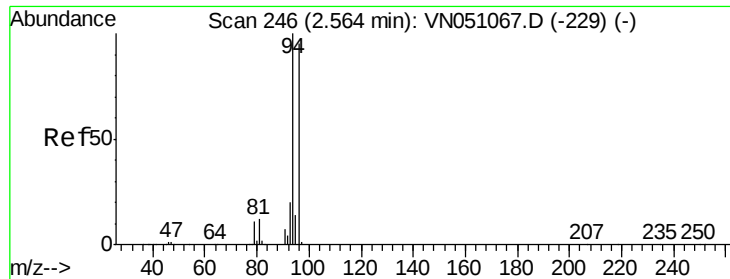
Chloromethane  
 Concen: Below Cal  
 RT: 2.06 min Scan# 88  
 Delta R.T. 0.00 min  
 Lab File: VN051152.D  
 Acq: 12 Sep 2018 15:00

Tgt Ion: 50 Resp: 2076  
 Ion Ratio Lower Upper  
 50 100  
 52 38.8 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VNO  
 Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051152.D

Acq: 12 Sep 2018 15:00

Instrument :

MSVOA\_N

ClientSampled :

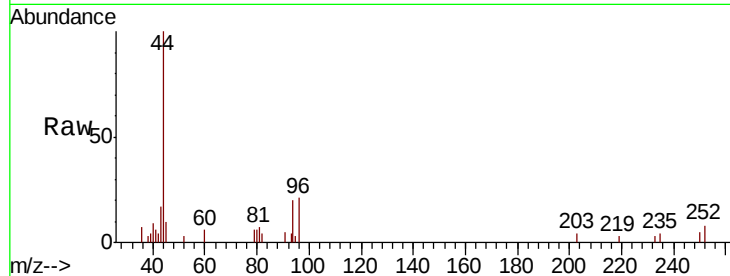
CS-SOIL

Tot Ion: 94 Resp: 2121

Ion Ratio Lower Upper

94 100

96 103.0 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

1200

1000

800

600

400

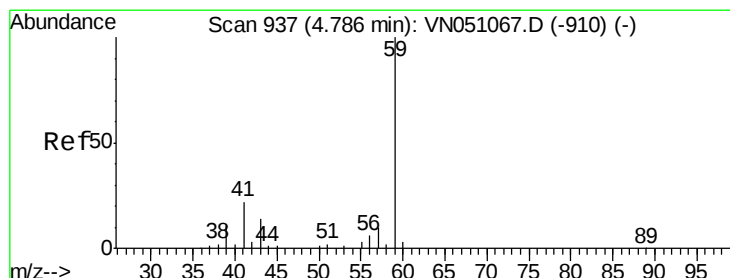
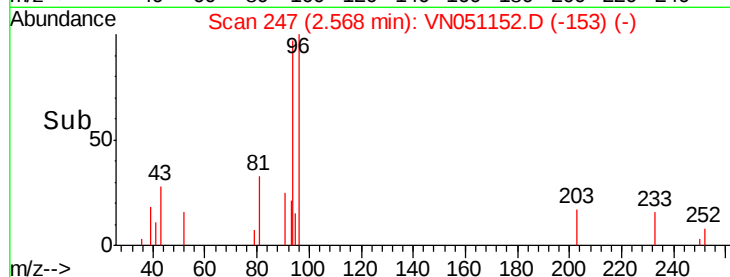
200

0

2.55

2.60

Time-->



#11

Tert butyl alcohol

Concen: 0.35 ug/l

RT: 4.78 min Scan# 936

Delta R.T. -0.00 min

Lab File: VN051152.D

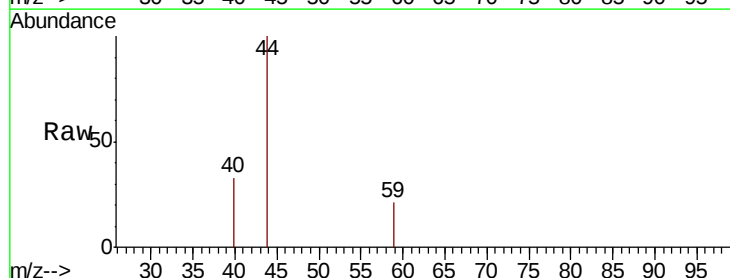
Acq: 12 Sep 2018 15:00

Tgt Ion: 59 Resp: 176

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

250

200

150

100

50

0

4.76

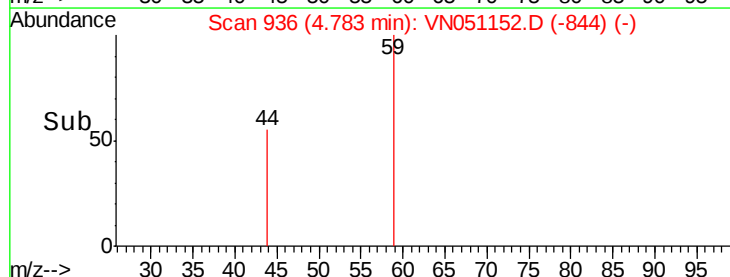
4.77

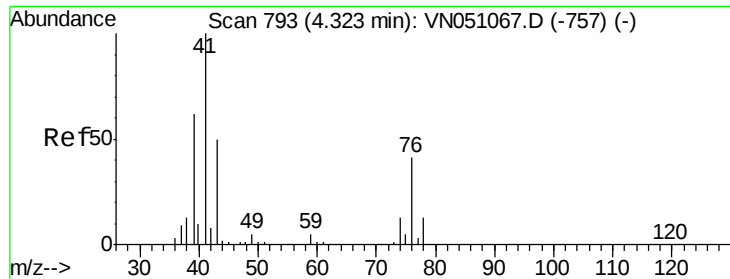
4.78

4.79

4.80

Time-->

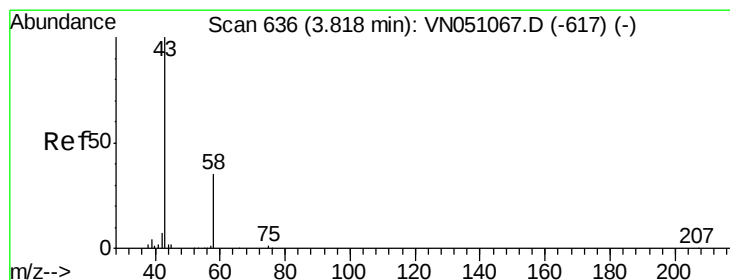
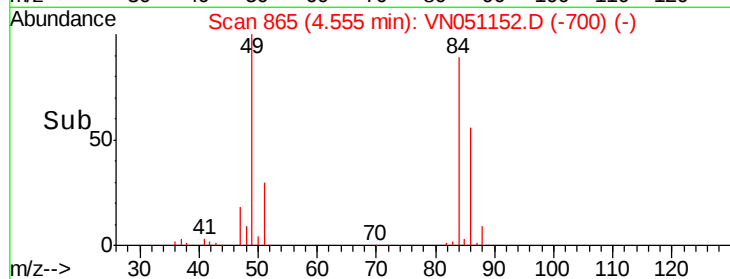
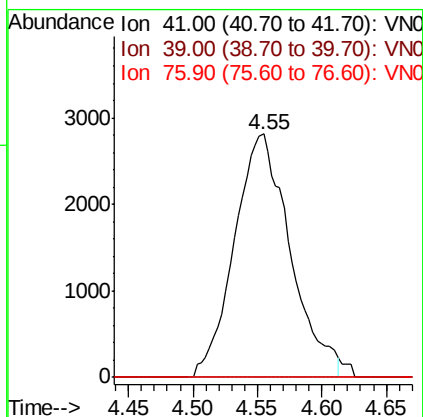
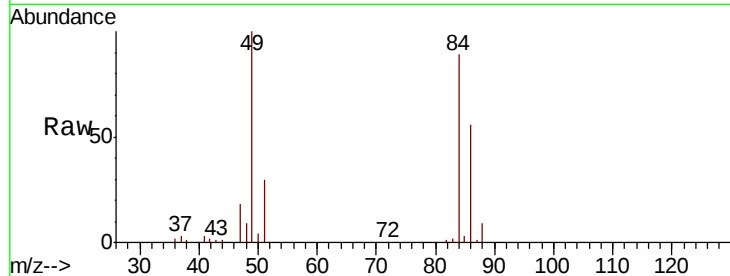




#14  
Allvl chloride  
Concen: 0.88 ug/l  
RT: 4.55 min Scan# 865  
Delta R.T. 0.23 min  
Lab File: VN051152.D  
Acq: 12 Sep 2018 15:00

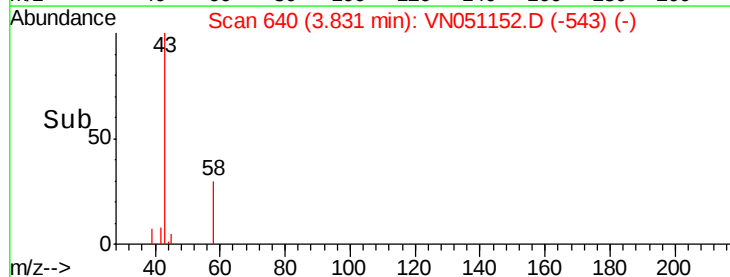
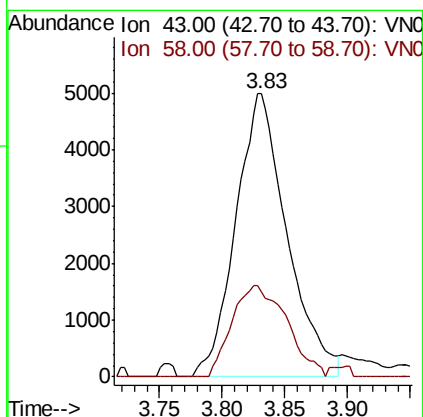
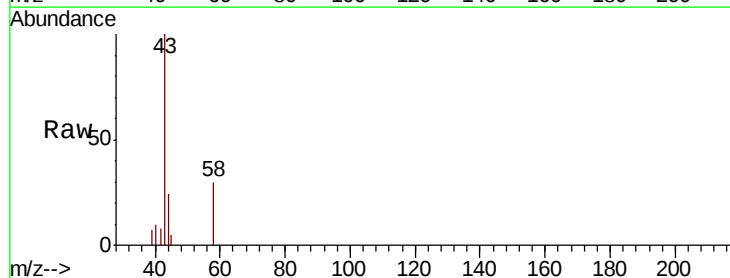
Instrument :  
MSVOA\_N  
ClientSampled :  
CS-SOIL

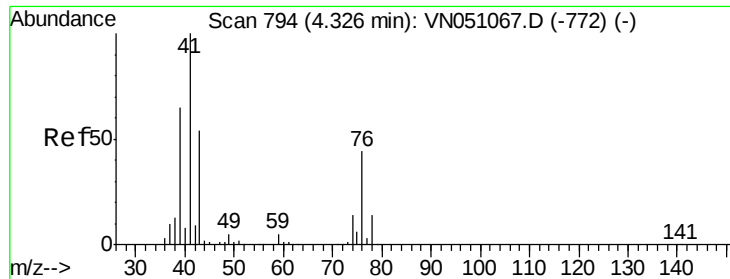
Tot Ion: 41 Resp: 8488  
Ion Ratio Lower Upper  
41 100  
39 0.0 48.8 73.2#  
76 0.0 30.6 45.8#



#16  
Acetone  
Concen: 2.91 ug/l  
RT: 3.83 min Scan# 640  
Delta R.T. 0.01 min  
Lab File: VN051152.D  
Acq: 12 Sep 2018 15:00

Tgt Ion: 43 Resp: 14194  
Ion Ratio Lower Upper  
43 100  
58 30.1 27.8 41.6

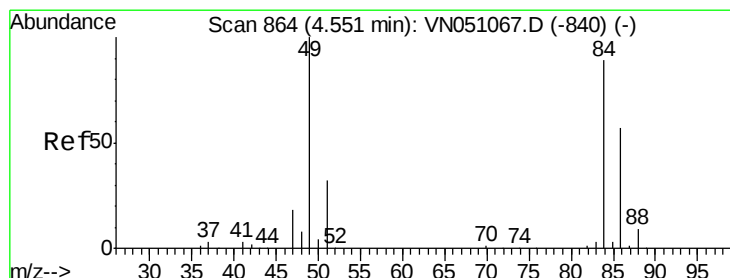
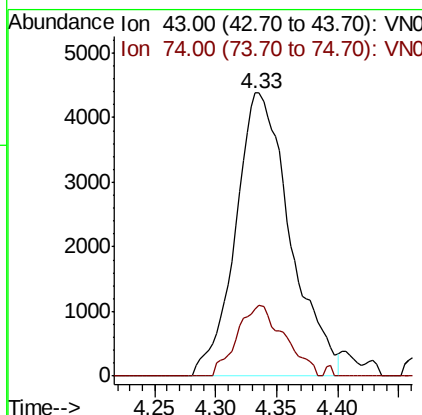
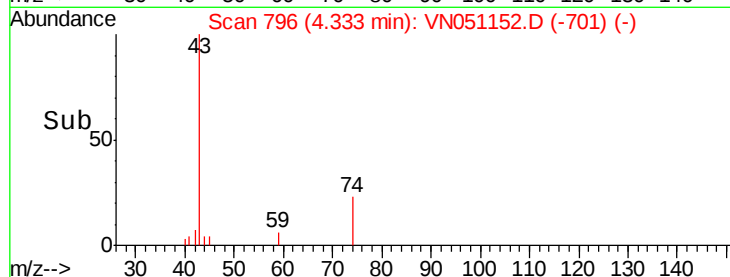
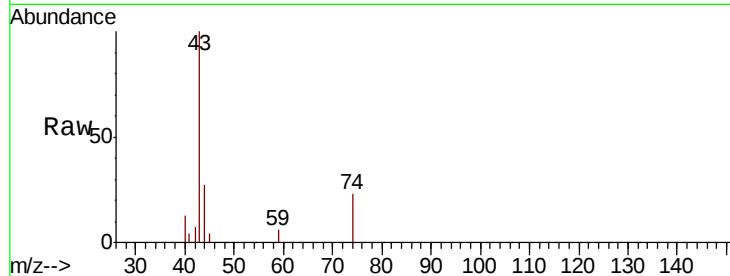




#18  
Methvl Acetate  
Concen: 2.57 ug/l  
RT: 4.33 min Scan# 796  
Delta R.T. 0.01 min  
Lab File: VN051152.D  
Acq: 12 Sep 2018 15:00

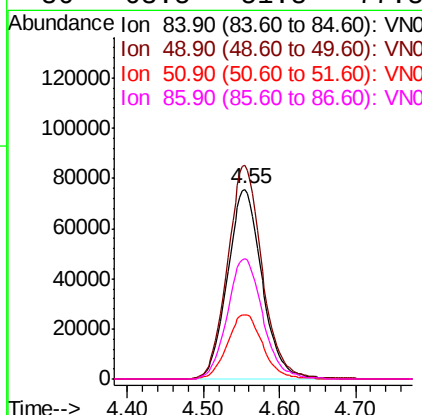
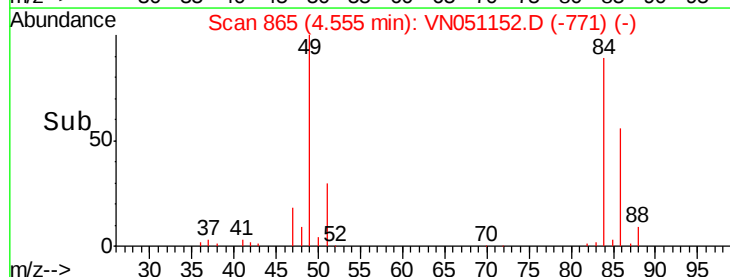
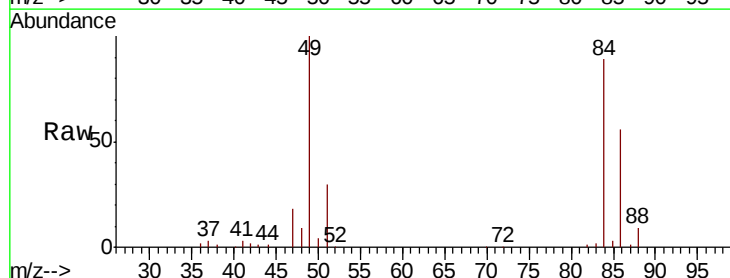
Instrument :  
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ClientSampleId :  
CS-SOIL

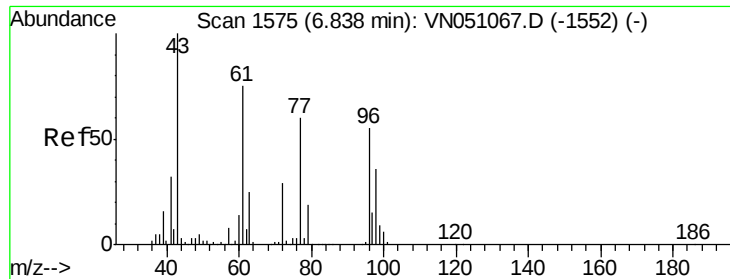
Tot Ion: 43 Resp: 13614  
Ion Ratio Lower Upper  
43 100  
74 21.6 20.7 31.1



#20  
Methylene Chloride  
Concen: 32.68 ug/l  
RT: 4.55 min Scan# 865  
Delta R.T. 0.00 min  
Lab File: VN051152.D  
Acq: 12 Sep 2018 15:00

Tgt Ion: 84 Resp: 238753  
Ion Ratio Lower Upper  
84 100  
49 112.5 90.2 135.2  
51 34.0 28.4 42.6  
86 63.5 51.8 77.8

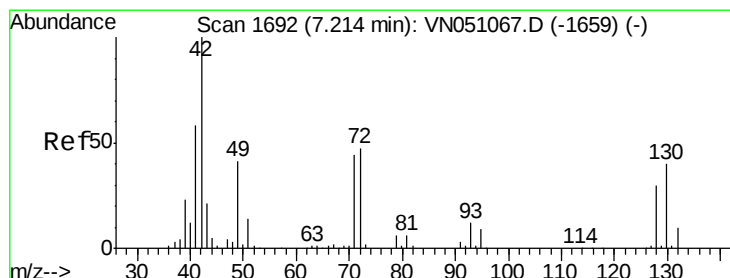
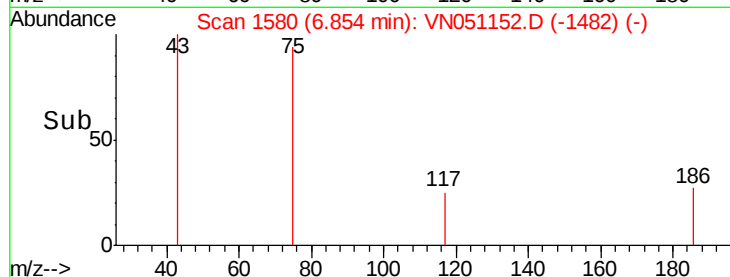
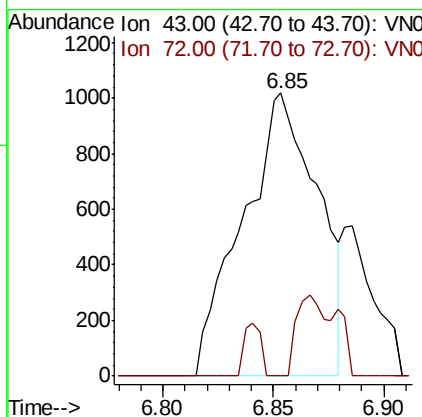
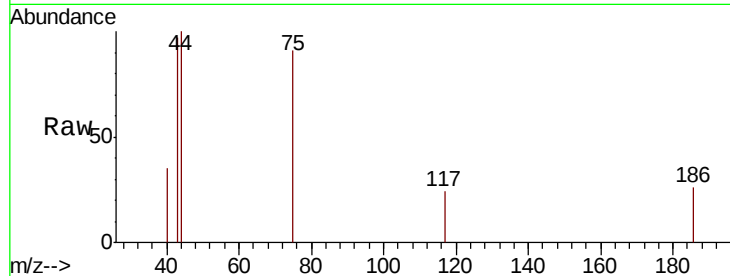




#25  
 2-Butanone  
 Concen: 0.92 ug/l  
 RT: 6.85 min Scan# 1580  
 Delta R.T. 0.02 min  
 Lab File: VN051152.D  
 Acq: 12 Sep 2018 15:00

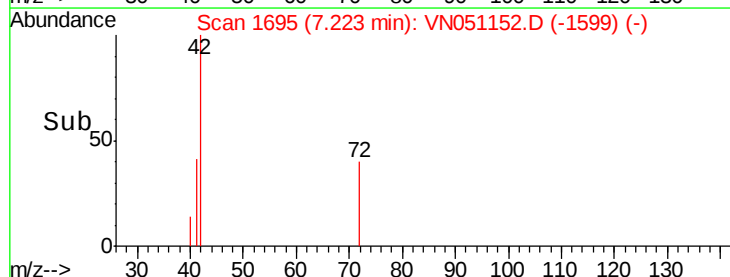
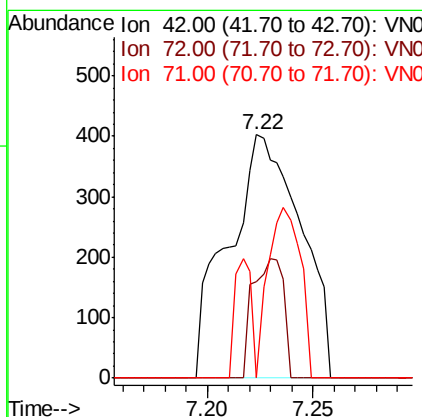
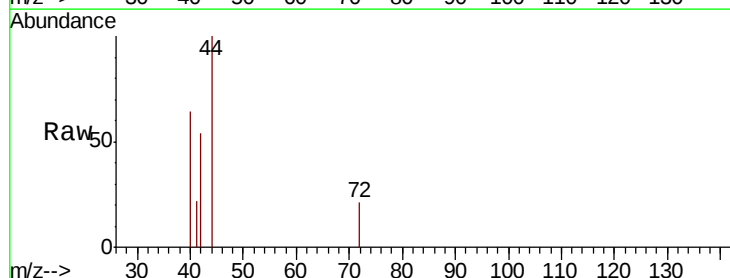
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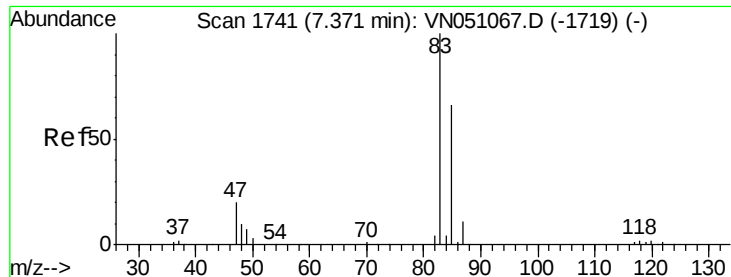
Tot Ion: 43 Resp: 2400  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 23.0 34.6#



#29  
 Tetrahydrofuran  
 Concen: 0.59 ug/l  
 RT: 7.22 min Scan# 1695  
 Delta R.T. 0.01 min  
 Lab File: VN051152.D  
 Acq: 12 Sep 2018 15:00

Tgt Ion: 42 Resp: 965  
 Ion Ratio Lower Upper  
 42 100  
 72 20.8 37.4 56.0#  
 71 31.2 34.7 52.1#

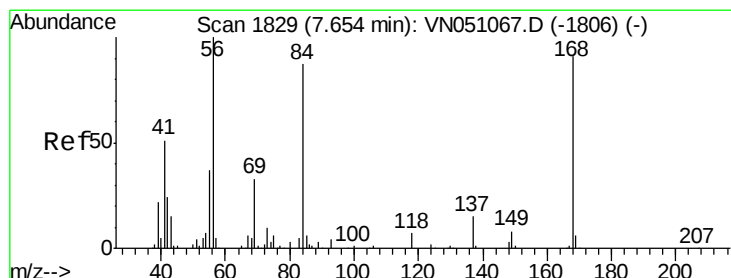
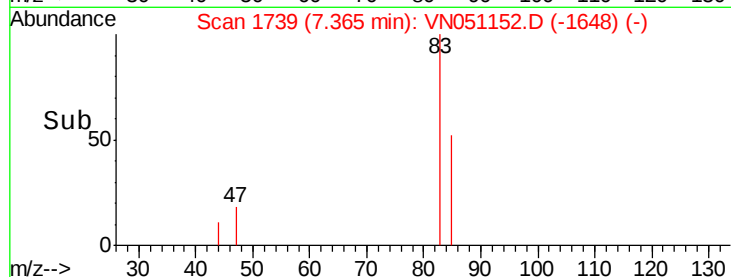
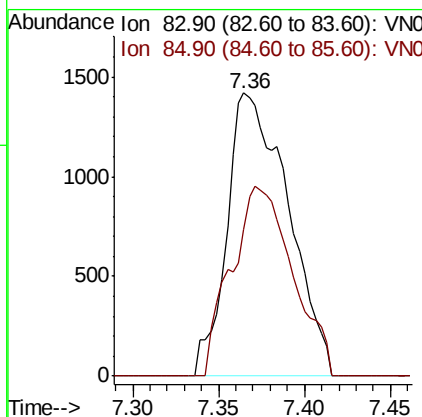
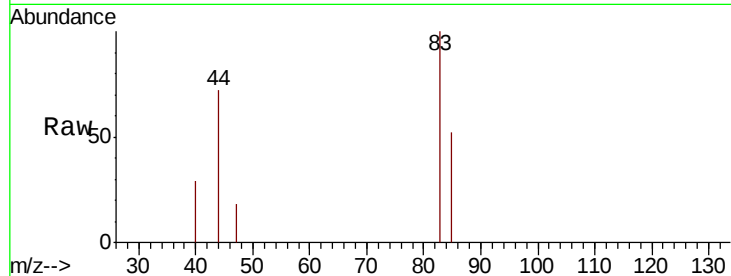




#30  
Chloroform  
Concen: 0.29 ug/l  
RT: 7.36 min Scan# 1739  
Delta R.T. -0.01 min  
Lab File: VN051152.D  
Acq: 12 Sep 2018 15:00

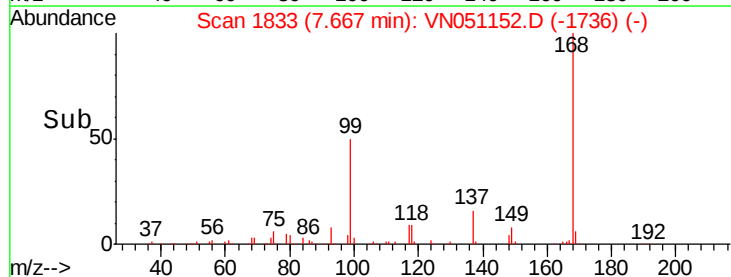
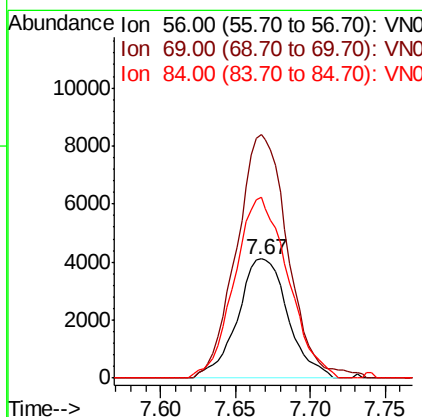
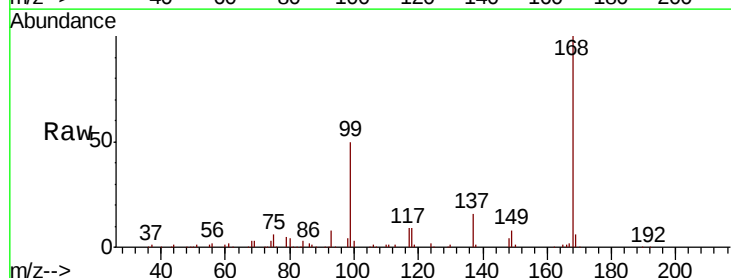
Instrument :  
MSVOA\_N  
ClientSampleId :  
CS-SOIL

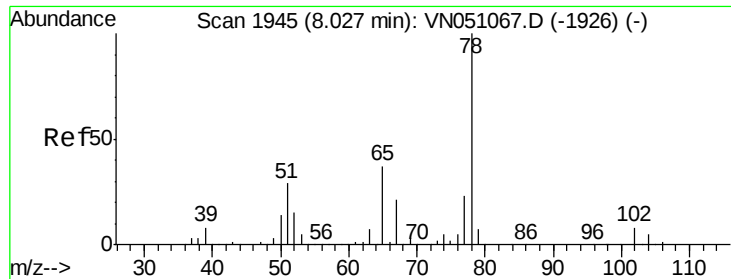
Tot Ion: 83 Resp: 3520  
Ion Ratio Lower Upper  
83 100  
85 51.7 52.6 79.0#



#31  
Cyclohexane  
Concen: 0.66 ug/l  
RT: 7.67 min Scan# 1833  
Delta R.T. 0.01 min  
Lab File: VN051152.D  
Acq: 12 Sep 2018 15:00

Tgt Ion: 56 Resp: 9628  
Ion Ratio Lower Upper  
56 100  
69 204.0 26.3 39.5#  
84 151.1 69.4 104.0#

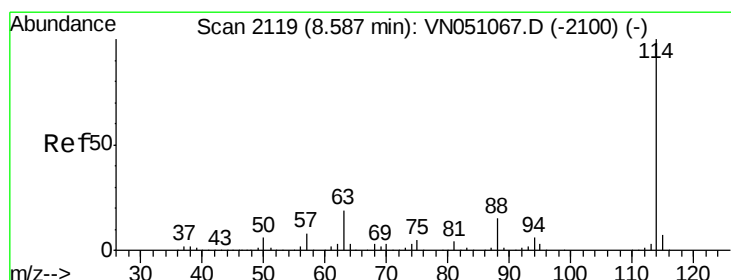
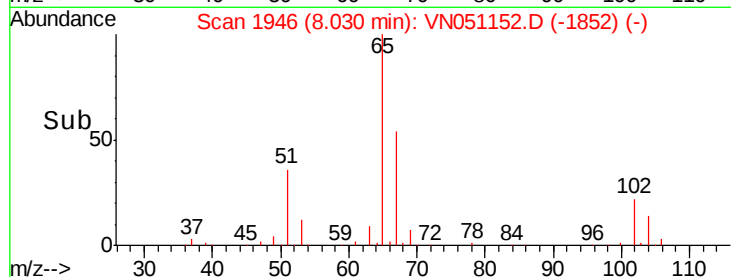
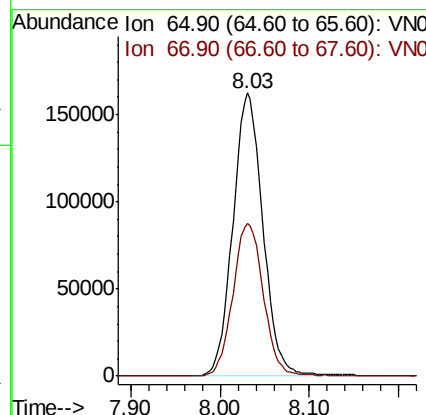
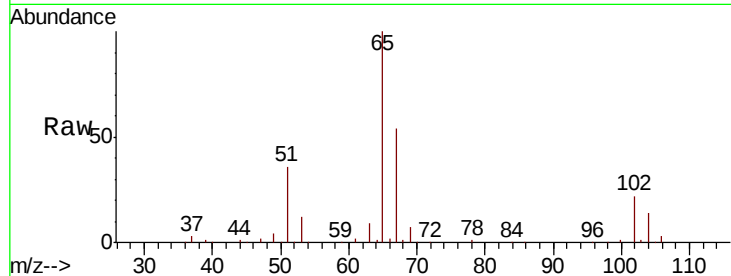




#33  
 1,2-Dichloroethane-d4  
 Concen: 57.22 ug/l  
 RT: 8.03 min Scan# 1946  
 Delta R.T. 0.00 min  
 Lab File: VN051152.D  
 Acq: 12 Sep 2018 15:00

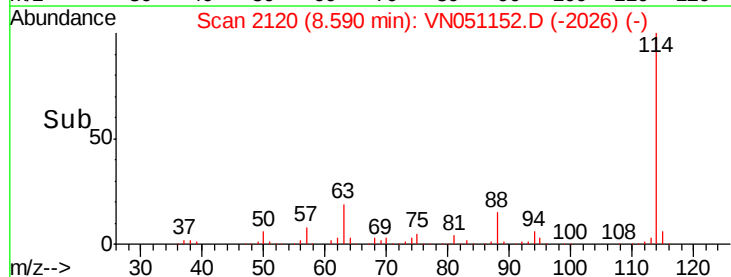
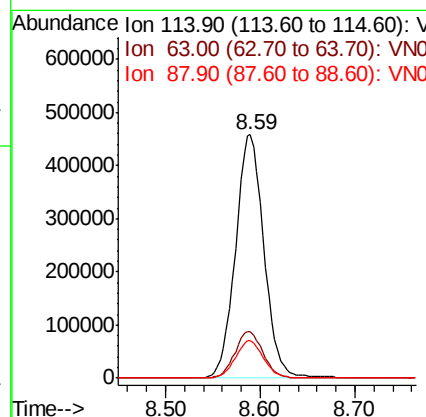
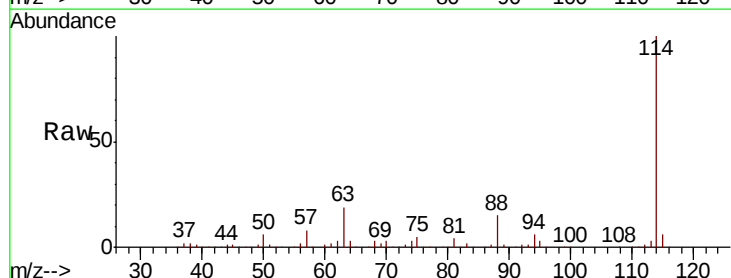
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 CS-SOIL

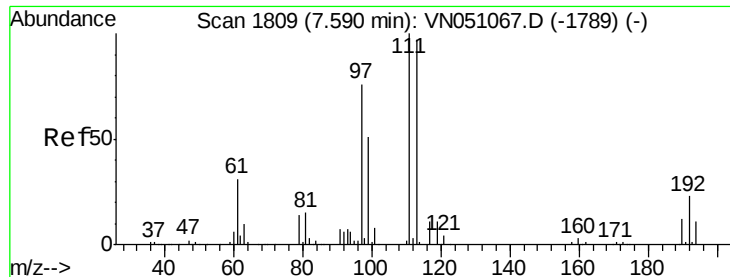
Tot Ion: 65 Resp: 378433  
 Ion Ratio Lower Upper  
 65 100  
 67 54.6 0.0 112.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2120  
 Delta R.T. 0.00 min  
 Lab File: VN051152.D  
 Acq: 12 Sep 2018 15:00

Tgt Ion: 114 Resp: 954964  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 37.8  
 88 15.2 0.0 30.8

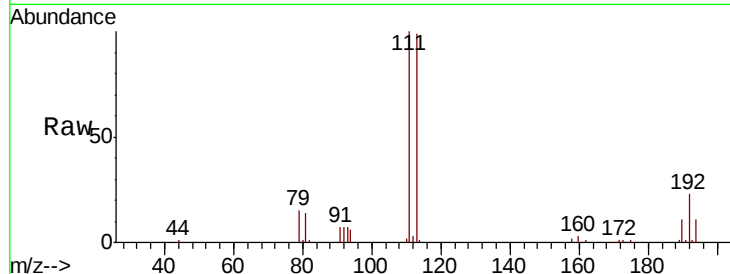




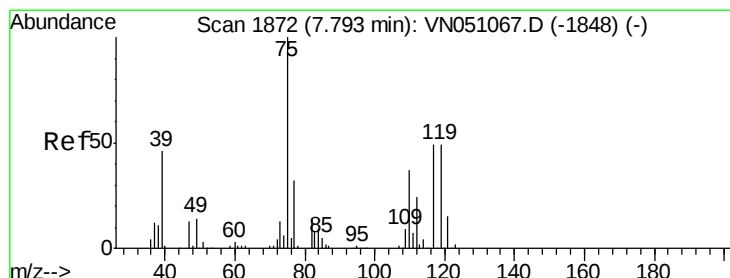
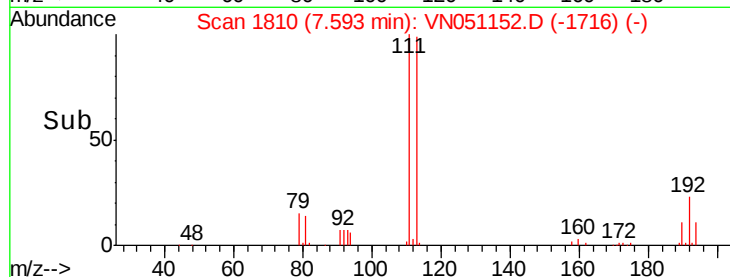
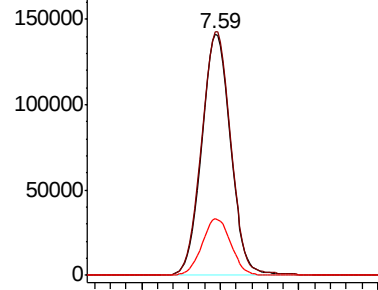
#35  
 Dibromofluoromethane  
 Concen: 50.21 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN051152.D  
 Acq: 12 Sep 2018 15:00

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CS-SOIL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.4 | 83.0  | 124.6 |
| 192     | 23.5  | 18.7  | 28.1  |

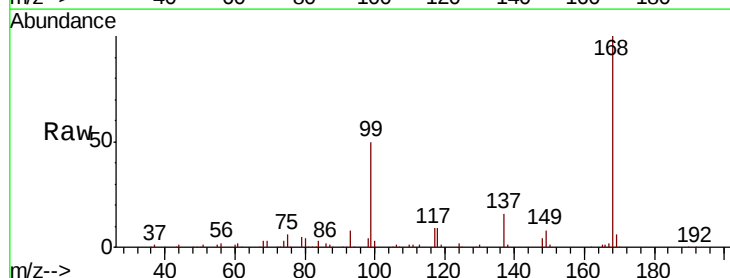


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

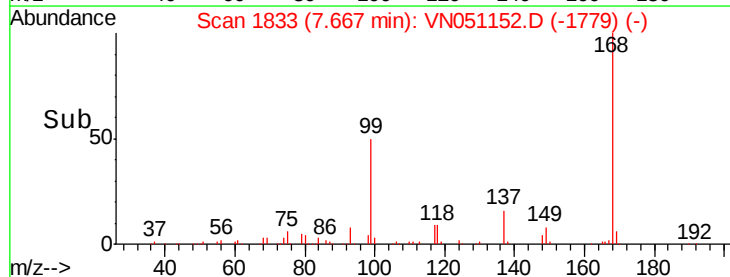
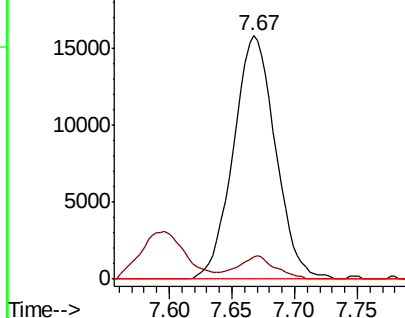


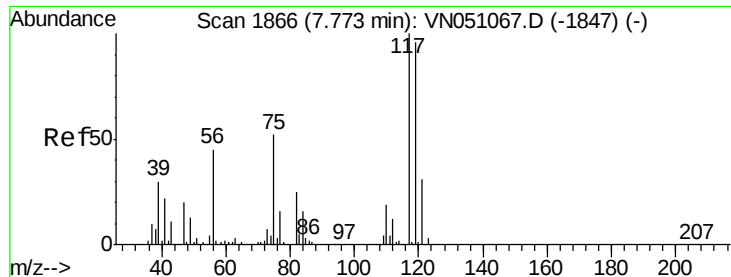
#36  
 1,1-Dichloropropene  
 Concen: 3.51 ug/l  
 RT: 7.67 min Scan# 1833  
 Delta R.T. -0.13 min  
 Lab File: VN051152.D  
 Acq: 12 Sep 2018 15:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.3   | 18.6  | 55.8# |
| 77      | 0.0   | 25.2  | 37.8# |



Abundance Ion 74.90 (74.60 to 75.60): VNO  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VNO

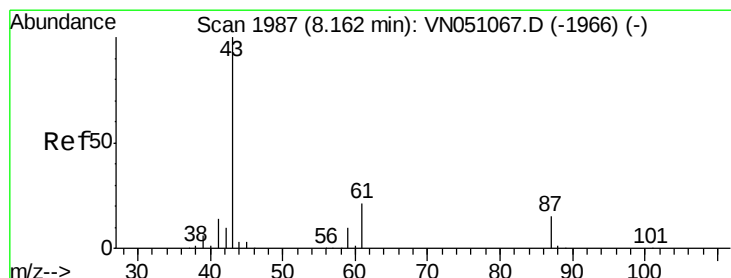
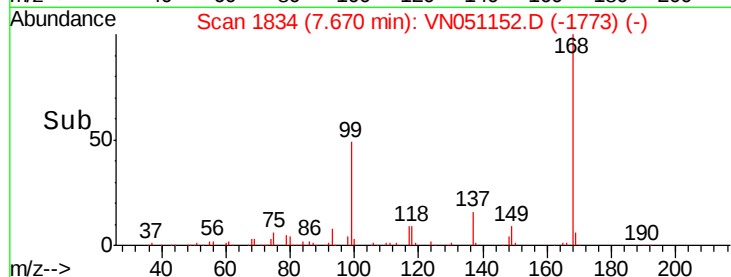
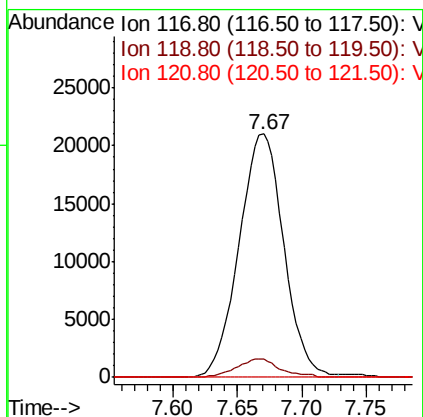
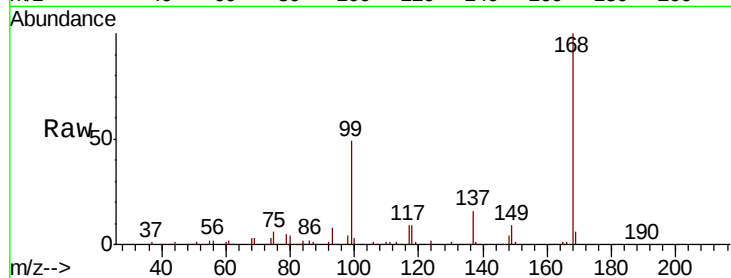




#38  
Carbon Tetrachloride  
Concen: 4.92 ug/l  
RT: 7.67 min Scan# 1834  
Delta R.T. -0.10 min  
Lab File: VN051152.D  
Acq: 12 Sep 2018 15:00

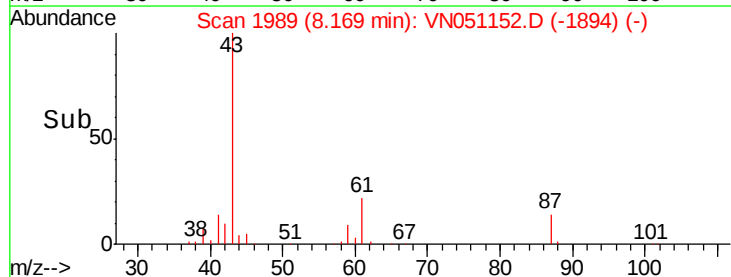
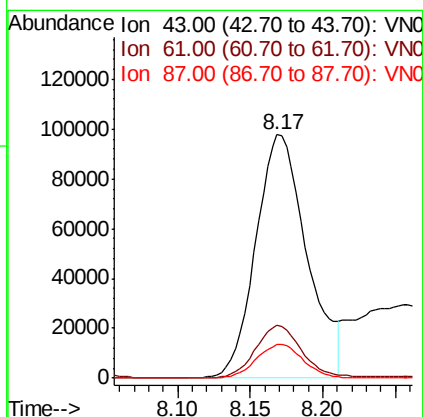
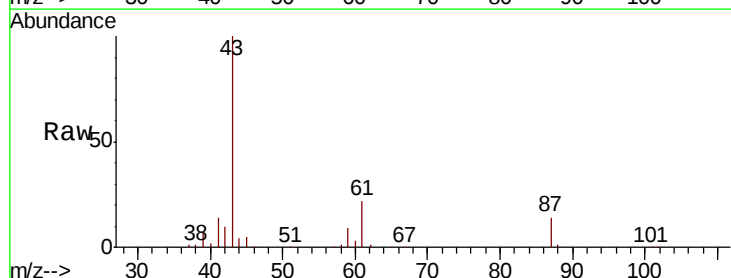
Instrument :  
MSVOA\_N  
ClientSampled :  
CS-SOIL

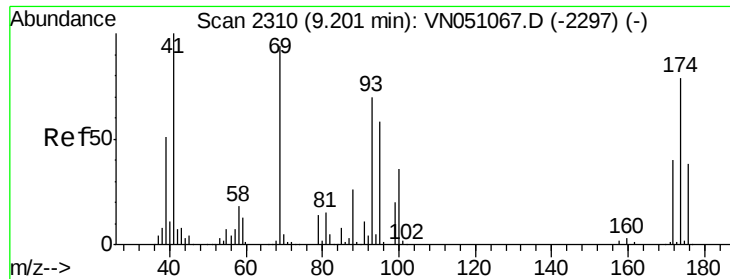
Tot Ion:117 Resp: 50749  
Ion Ratio Lower Upper  
117 100  
119 7.4 76.8 115.2#  
121 0.0 24.6 36.8#



#43  
Isopropyl Acetate  
Concen: 22.35 ug/l  
RT: 8.17 min Scan# 1989  
Delta R.T. 0.01 min  
Lab File: VN051152.D  
Acq: 12 Sep 2018 15:00

Tgt Ion: 43 Resp: 239518  
Ion Ratio Lower Upper  
43 100  
61 19.7 25.0 37.6#  
87 12.7 11.8 17.8

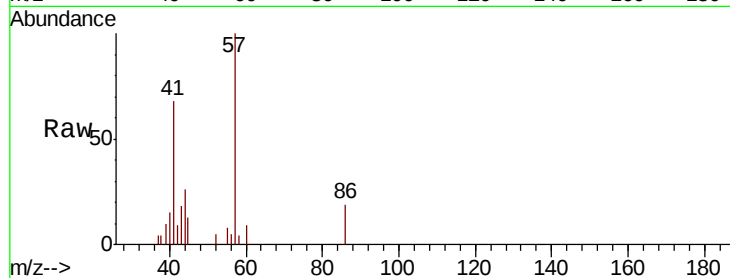




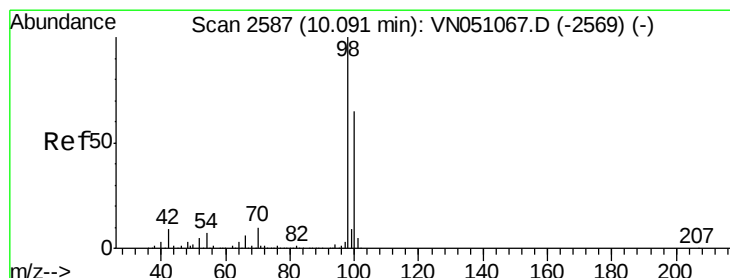
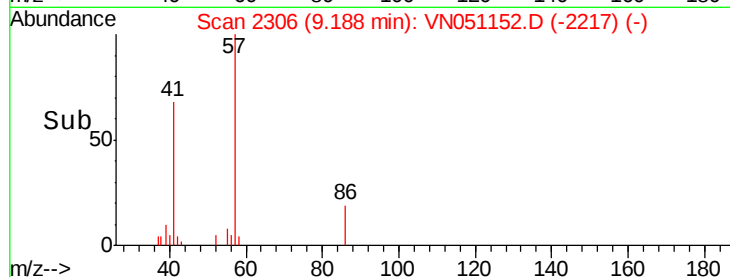
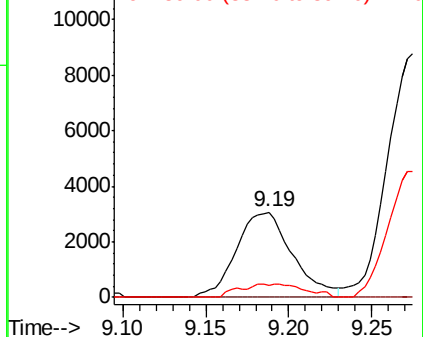
#48  
Methvl methacrylate  
Concen: 1.38 ug/l  
RT: 9.19 min Scan# 2306  
Delta R.T. -0.01 min  
Lab File: VN051152.D  
Acq: 12 Sep 2018 15:00

Instrument :  
MSVOA\_N  
ClientSampled :  
CS-SOIL

Tot Ion: 41 Resp: 7215  
Ion Ratio Lower Upper  
41 100  
69 0.0 77.7 116.5#  
39 8.5 41.6 62.4#

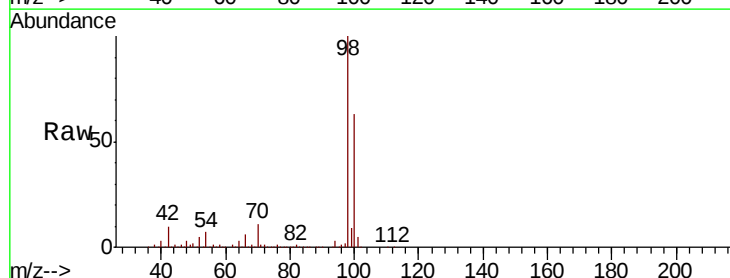


Abundance Ion 41.00 (40.70 to 41.70): VN0  
Ion 69.00 (68.70 to 69.70): VN0  
Ion 39.00 (38.70 to 39.70): VN0

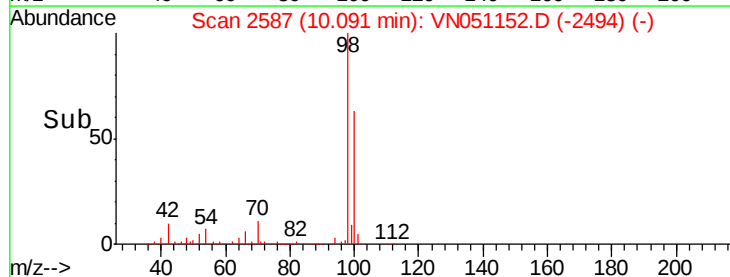
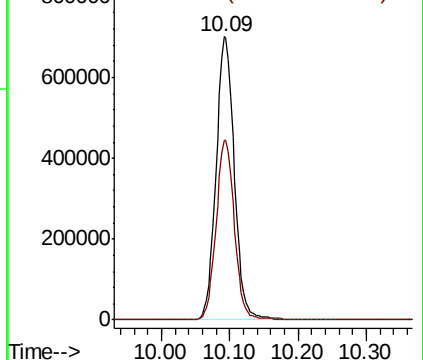


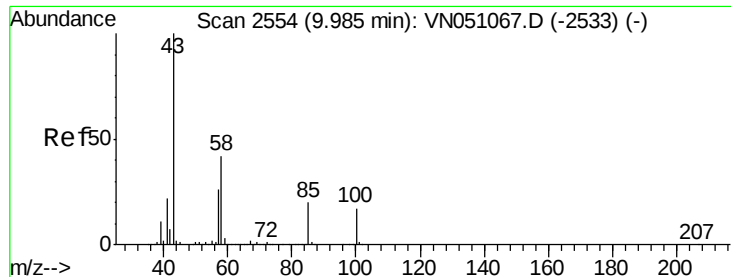
#50  
Toluene-d8  
Concen: 47.82 ug/l  
RT: 10.09 min Scan# 2587  
Delta R.T. -0.00 min  
Lab File: VN051152.D  
Acq: 12 Sep 2018 15:00

Tgt Ion: 98 Resp: 1302101  
Ion Ratio Lower Upper  
98 100  
100 63.8 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0  
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.31 ug/l

RT: 9.99 min Scan# 2556

Delta R.T. 0.01 min

Lab File: VN051152.D

Acq: 12 Sep 2018 15:00

Instrument :

MSVOA\_N

ClientSampleId :

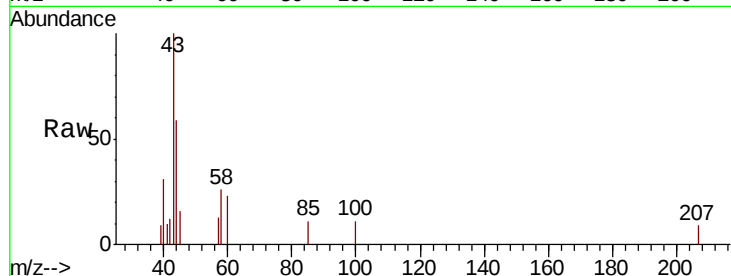
CS-SOIL

Tot Ion: 43 Resp: 1845

Ion Ratio Lower Upper

43 100

58 36.7 33.5 50.3



Abundance Ion 43.00 (42.70 to 43.70): VN051067.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN051067.D (-2533) (-)

9.99

1500

1000

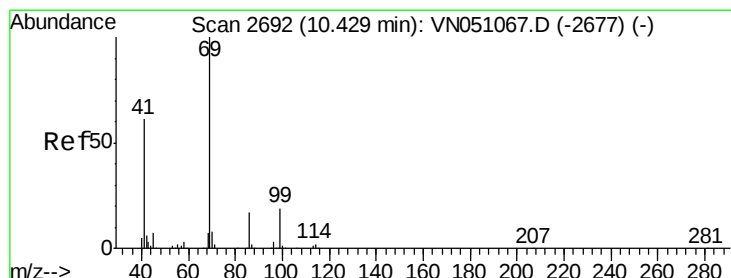
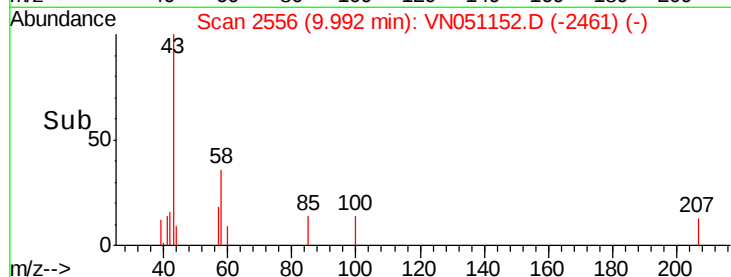
500

0

9.95

10.00

Time-->



#56

Ethyl methacrylate

Concen: 2.57 ug/l

RT: 10.23 min Scan# 2629

Delta R.T. -0.20 min

Lab File: VN051152.D

Acq: 12 Sep 2018 15:00

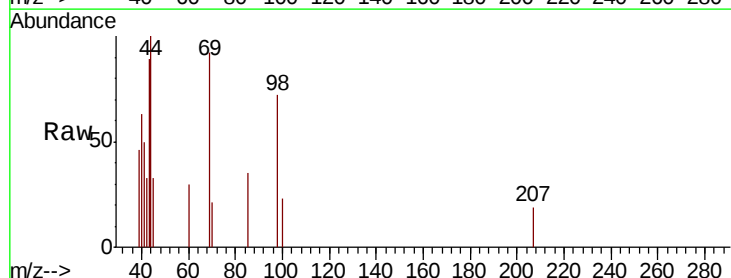
Tgt Ion: 69 Resp: 1166

Ion Ratio Lower Upper

69 100

41 84.6 47.8 71.8#

39 45.0 23.0 34.4#



Abundance Ion 69.00 (68.70 to 69.70): VN051067.D (-2677) (-)

Ion 41.00 (40.70 to 41.70): VN051067.D (-2677) (-)

Ion 39.00 (38.70 to 39.70): VN051067.D (-2677) (-)

10.23

1200

1000

800

600

400

200

0

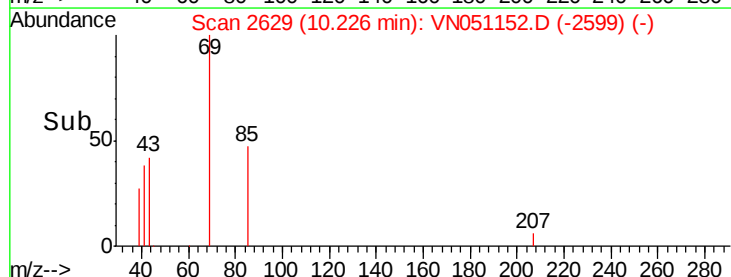
10.18

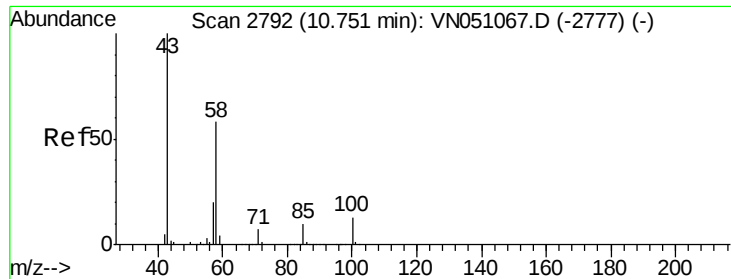
10.20

10.22

10.24

Time-->

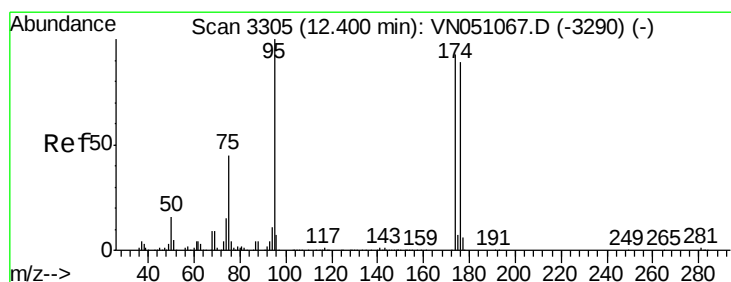
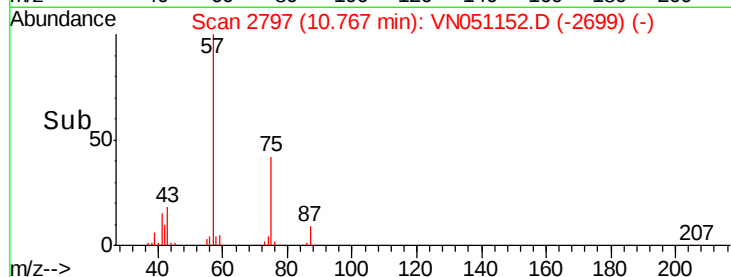
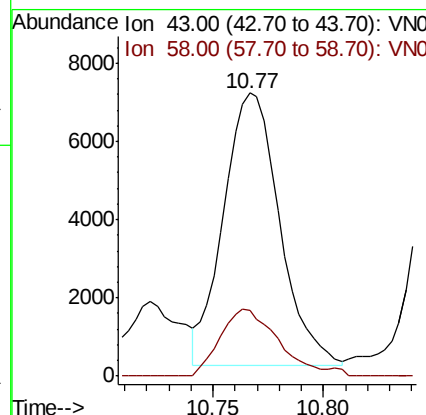
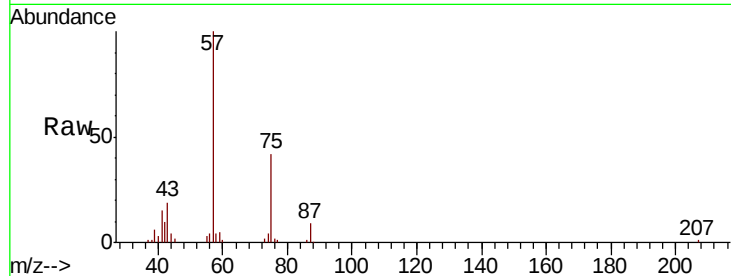




#59  
2-Hexanone  
Concen: 3.05 ug/l  
RT: 10.77 min Scan# 2797  
Delta R.T. 0.02 min  
Lab File: VN051152.D  
Acq: 12 Sep 2018 15:00

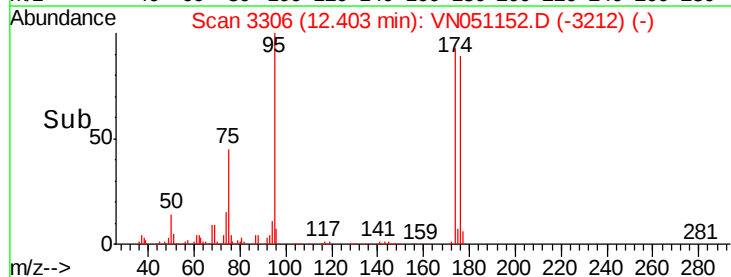
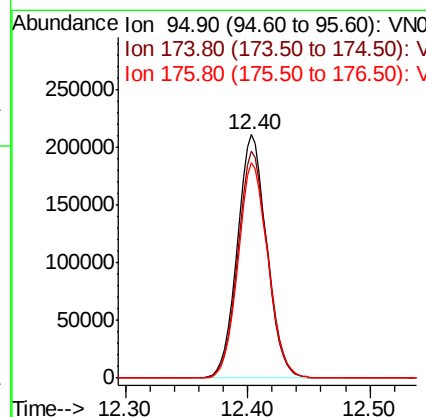
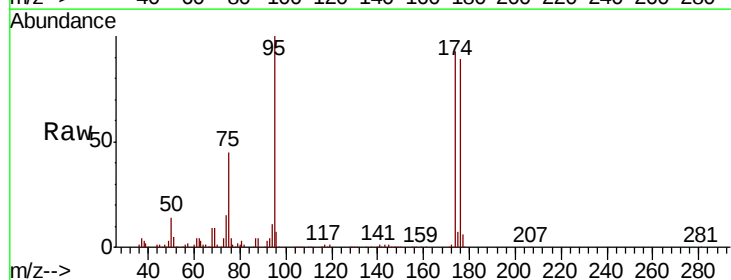
Instrument :  
MSVOA\_N  
ClientSampled :  
CS-SOIL

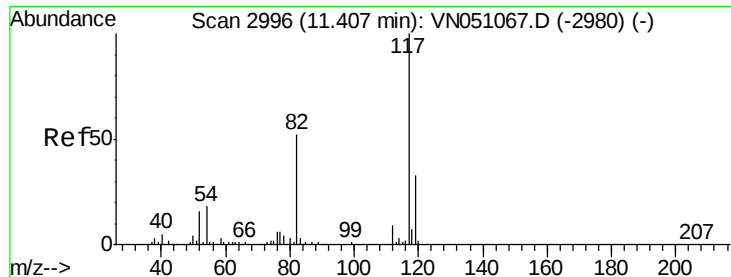
Tot Ion: 43 Resp: 12270  
Ion Ratio Lower Upper  
43 100  
58 25.9 29.3 88.0#



#62  
4-Bromofluorobenzene  
Concen: 39.07 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN051152.D  
Acq: 12 Sep 2018 15:00

Tgt Ion: 95 Resp: 351942  
Ion Ratio Lower Upper  
95 100  
174 94.8 0.0 184.8  
176 89.8 0.0 178.6

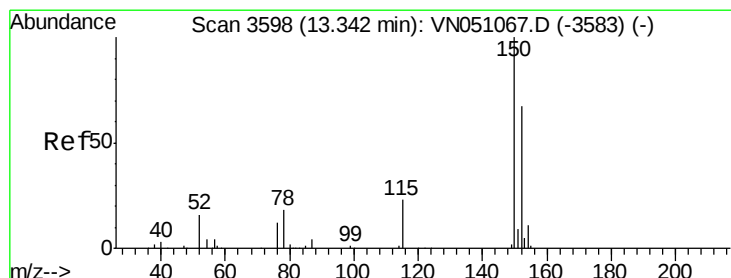
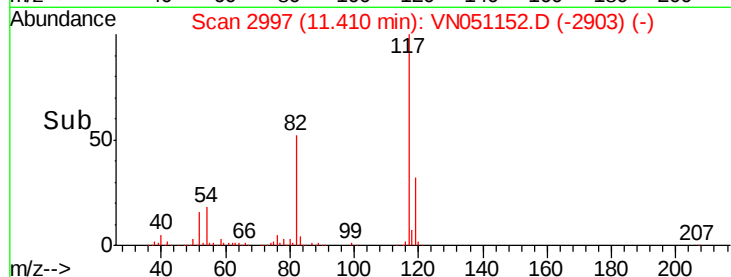
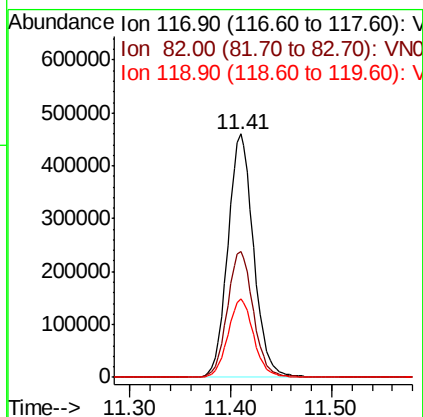
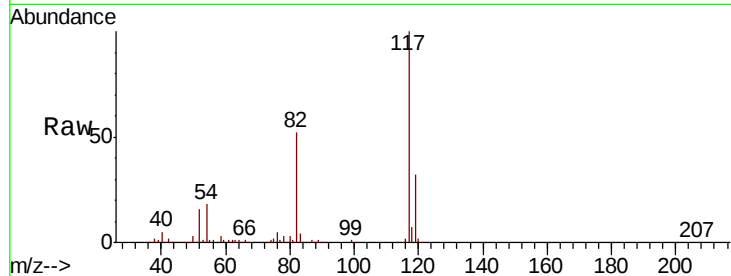




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.41 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: VN051152.D  
Acq: 12 Sep 2018 15:00

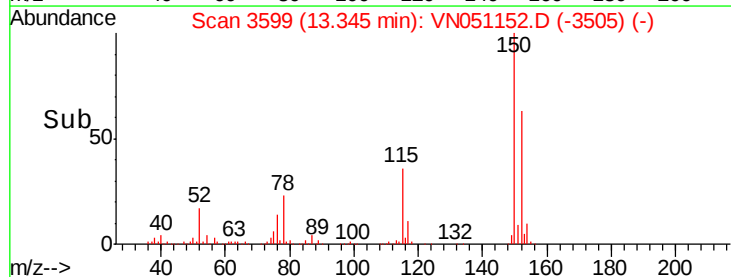
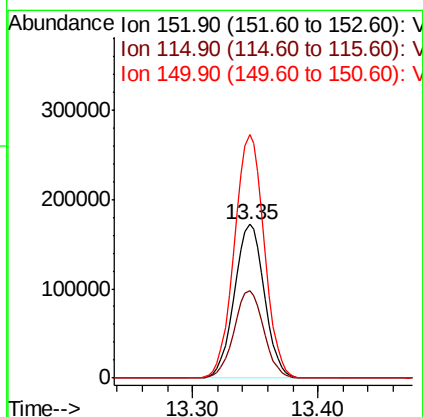
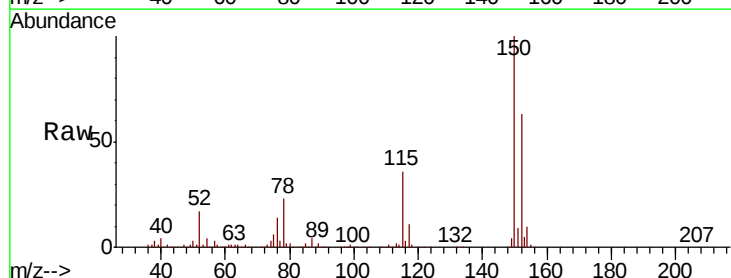
Instrument :  
MSVOA\_N  
ClientSampled :  
CS-SOIL

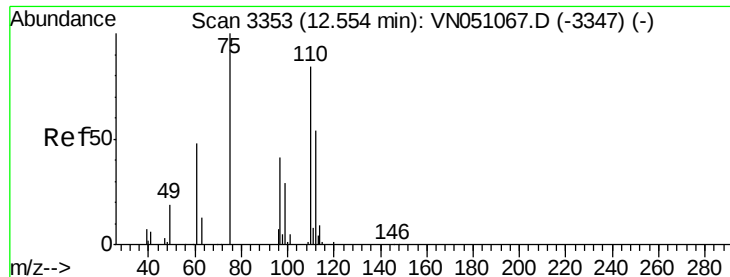
Tot Ion:117 Resp: 816784  
Ion Ratio Lower Upper  
117 100  
82 51.9 41.8 62.6  
119 32.1 26.2 39.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.35 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: VN051152.D  
Acq: 12 Sep 2018 15:00

Tgt Ion:152 Resp: 285546  
Ion Ratio Lower Upper  
152 100  
115 56.6 28.2 84.7  
150 157.7 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 36.35 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051152.D

Acq: 12 Sep 2018 15:00

Instrument :

MSVOA\_N

ClientSampled :

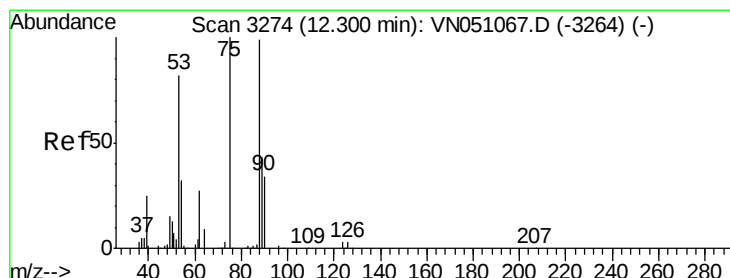
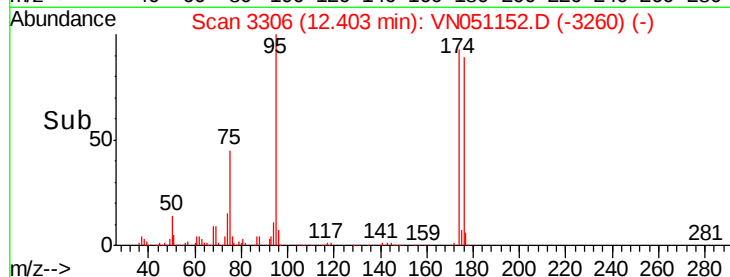
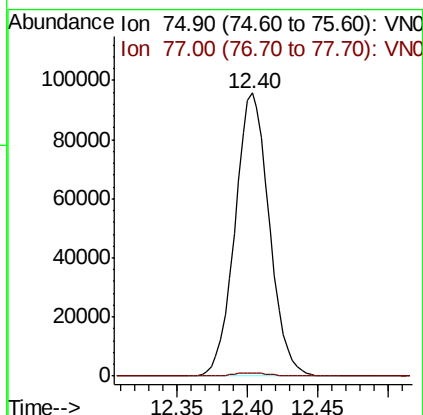
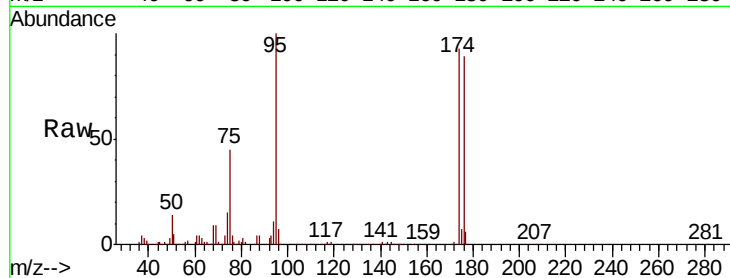
CS-SOIL

Tot Ion: 75 Resp: 162706

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 108.22 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051152.D

Acq: 12 Sep 2018 15:00

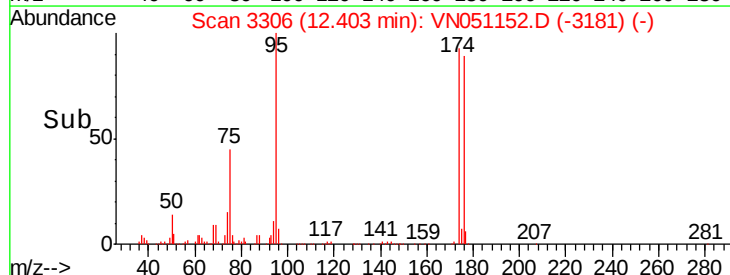
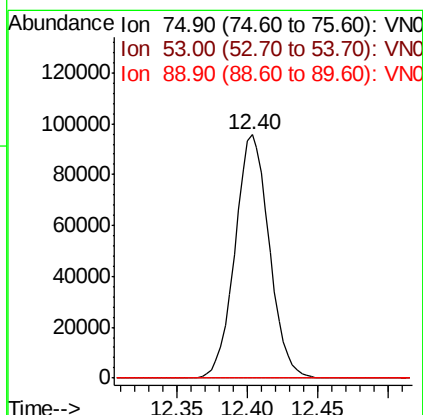
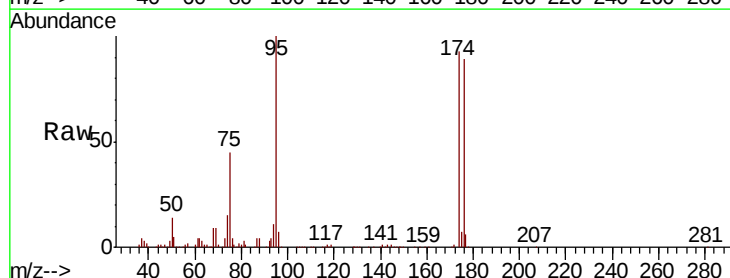
Tgt Ion: 75 Resp: 162706

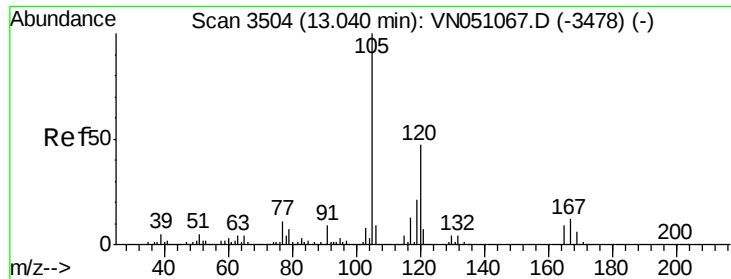
Ion Ratio Lower Upper

75 100

53 0.1 67.8 101.8#

89 0.0 36.0 54.0#

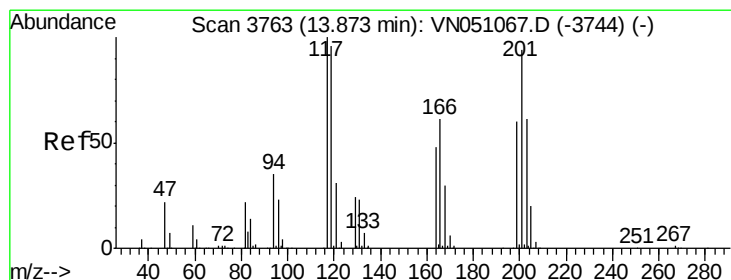
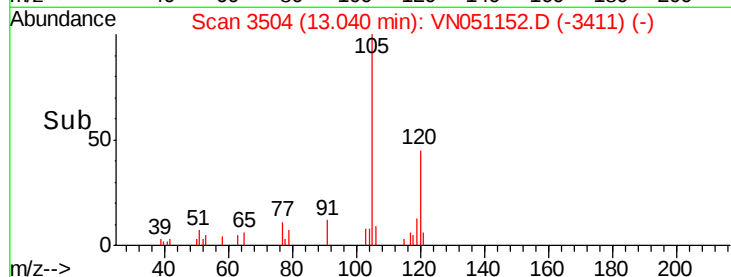
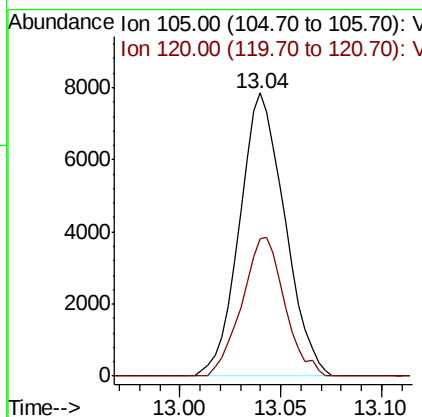
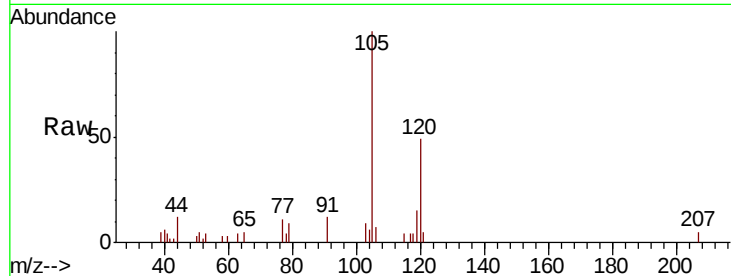




#84  
 1,2,4-Trimethylbenzene  
 Concen: 0.65 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. -0.00 min  
 Lab File: VN051152.D  
 Acq: 12 Sep 2018 15:00

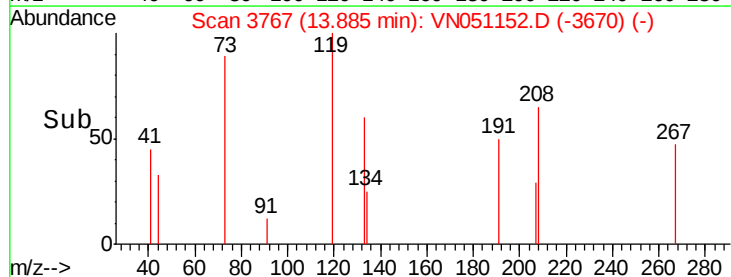
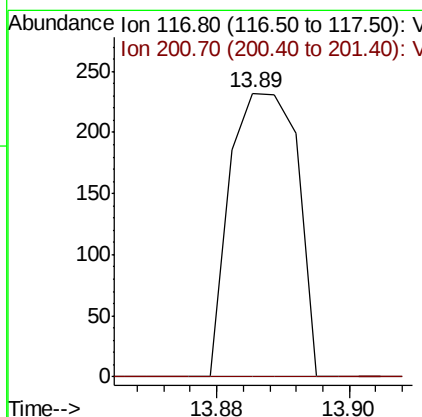
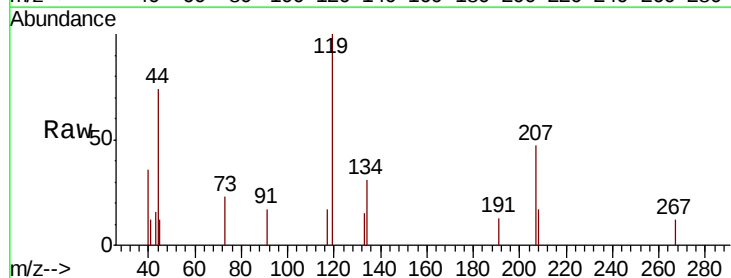
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 CS-SOIL

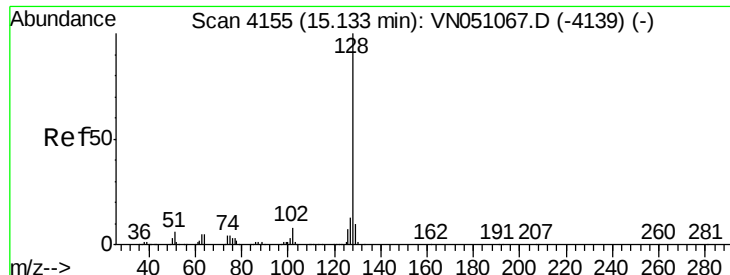
Tot Ion:105 Resp: 12340  
 Ion Ratio Lower Upper  
 105 100  
 120 46.2 23.3 69.8



#90  
 Hexachloroethane  
 Concen: Below Cal  
 RT: 13.89 min Scan# 3767  
 Delta R.T. 0.01 min  
 Lab File: VN051152.D  
 Acq: 12 Sep 2018 15:00

Tgt Ion:117 Resp: 164  
 Ion Ratio Lower Upper  
 117 100  
 201 0.0 47.3 142.0#





#95

Naphthalene

Concen: 7.14 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051152.D

Acq: 12 Sep 2018 15:00

Instrument :

MSVOA\_N

ClientSampleId :

CS-SOIL

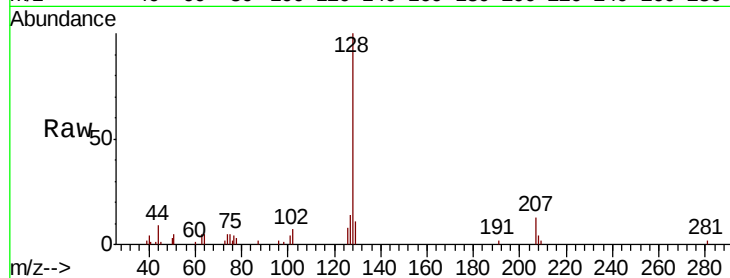
Tot Ion:128 Resp: 21670

Ion Ratio Lower Upper

128 100

127 14.0 10.6 15.8

129 11.2 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

