

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_N\DATA\VN121818\  
 Data File : VN052992.D  
 Acq On : 19 Dec 2018 5:59  
 Operator : MD\SY  
 Sample : J6453-03  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 45 Sample Multiplier: 28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SS-SOIL

Quant Time: Dec 19 07:53:59 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 18 13:03:37 2018  
 Response via : Initial Calibration

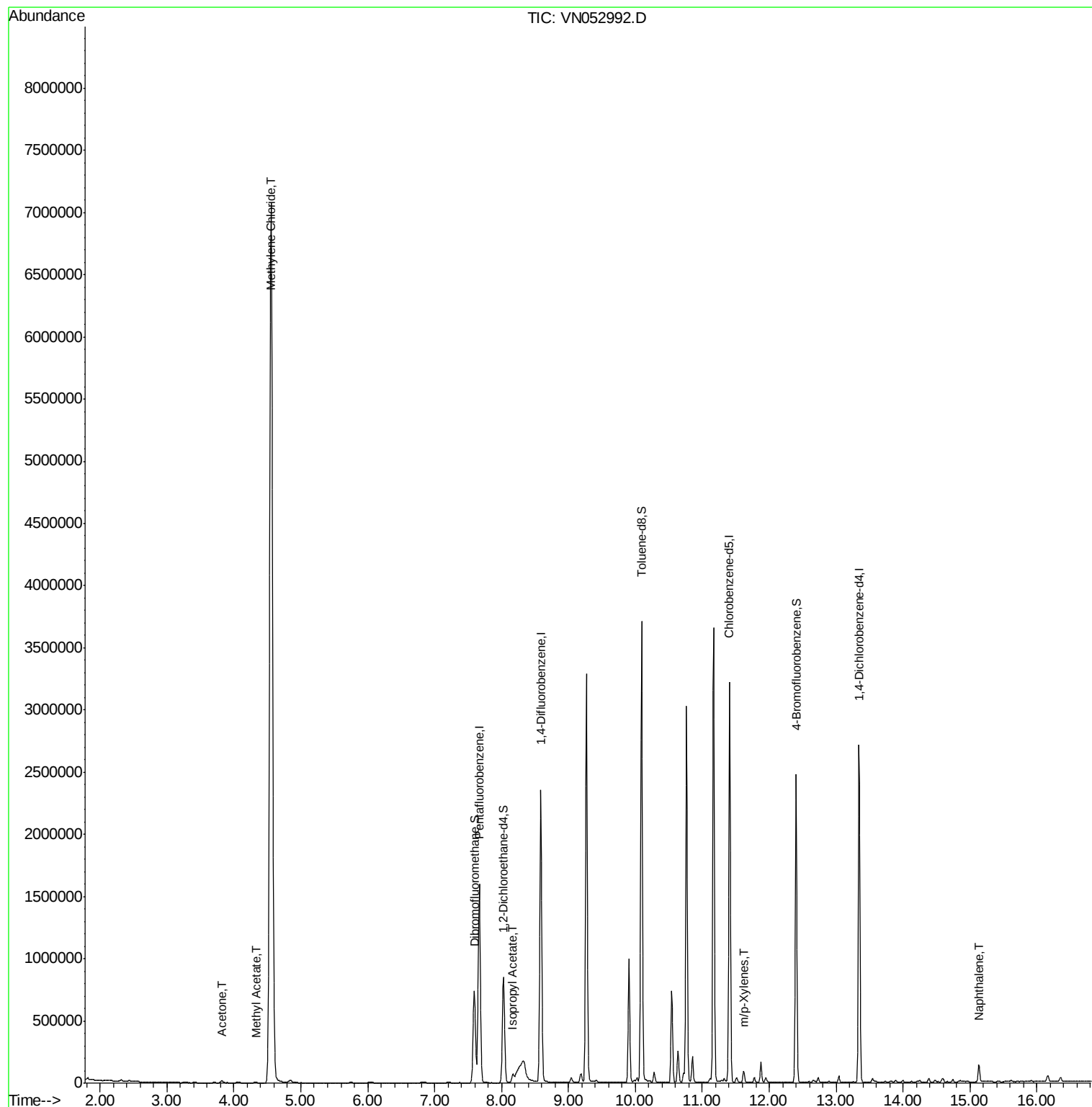
| Internal Standards          | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 7.67  | 168  | 1421473  | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.59  | 114  | 2193421  | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.41 | 117  | 1934185  | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.34 | 152  | 777170   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 706776   | 49.00   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 98.00%  |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 569899   | 56.88   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 113.76% |          |
| 50) Toluene-d8              | 10.09 | 98   | 2659840  | 49.45   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 98.90%  |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 865930   | 45.86   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 91.72%  |          |
| Target Compounds            |       |      |          |         |         |          |
| 16) Acetone                 | 3.82  | 43   | 26537    | 9.383   | ug/l    | 94       |
| 18) Methyl Acetate          | 4.33  | 43   | 7927     | 1.597   | ug/l #  | 69       |
| 20) Methylene Chloride      | 4.55  | 84   | 5557038  | 360.186 | ug/l    | 98       |
| 43) Isopropyl Acetate       | 8.17  | 43   | 81487    | 2.592   | ug/l #  | 83       |
| 68) m/p-Xylenes             | 11.62 | 106  | 29566    | 1.055   | ug/l    | 96       |
| 95) Naphthalene             | 15.13 | 128  | 125367   | 5.155   | ug/l    | 99       |

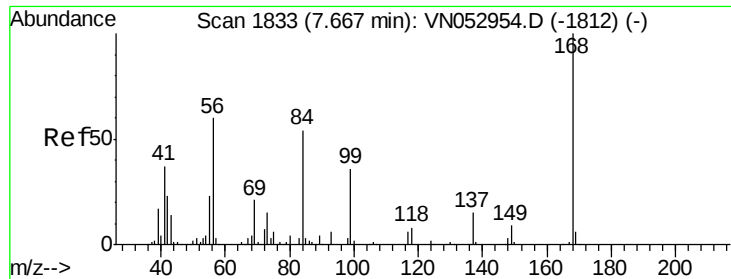
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_N\DATA\VN121818\  
Data File : VN052992.D  
Acq On : 19 Dec 2018 5:59  
Operator : MD\SY  
Sample : J6453-03  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 45 Sample Multiplier: 28

Instrument :  
MSVOA\_N  
ClientSampleId :  
SS-SOIL

Quant Time: Dec 19 07:53:59 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N121818W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 18 13:03:37 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052992.D

Acq: 19 Dec 2018 5:59

Instrument :

MSVOA\_N

ClientSampled :

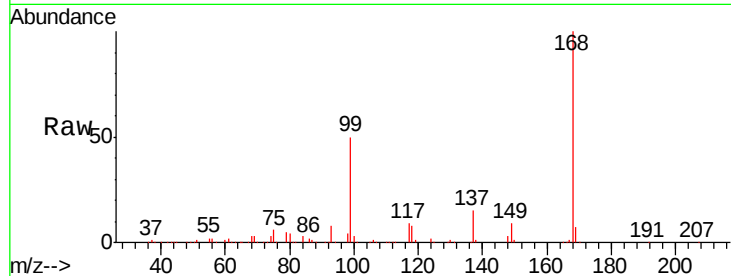
SS-SOIL

Tgt Ion:168 Resp: 1421473

Ion Ratio Lower Upper

168 100

99 50.0 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

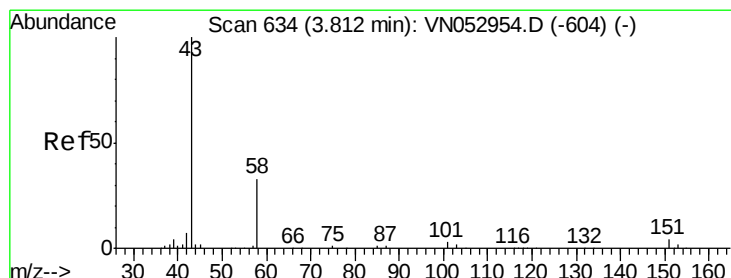
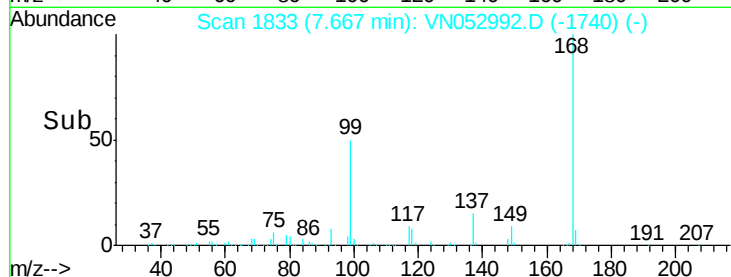
600000

400000

200000

0

Time-->



#16

Acetone

Concen: 9.383 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN052992.D

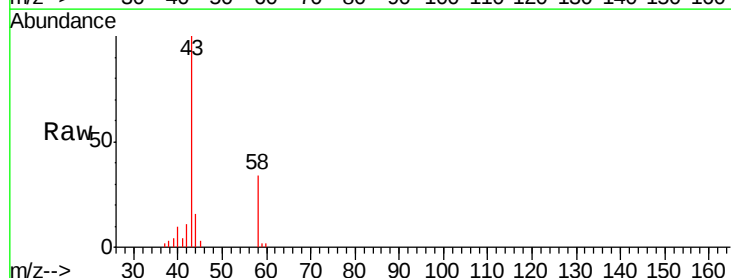
Acq: 19 Dec 2018 5:59

Tgt Ion: 43 Resp: 26537

Ion Ratio Lower Upper

43 100

58 34.8 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

10000

8000

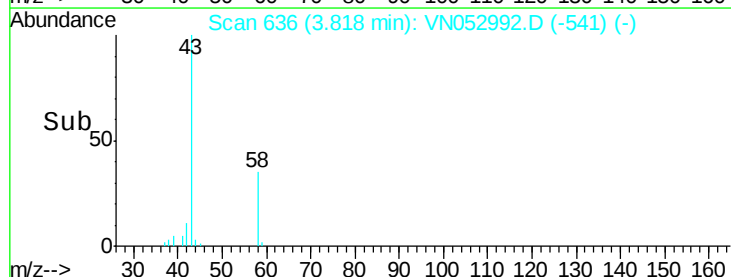
6000

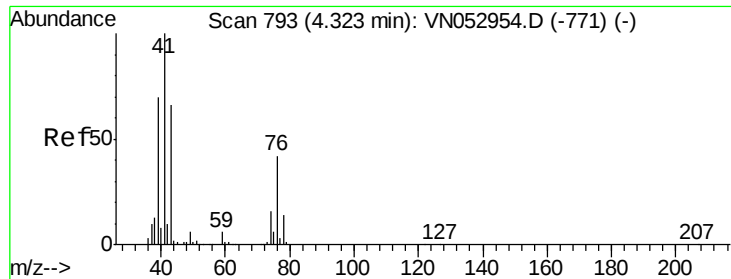
4000

2000

0

Time-->

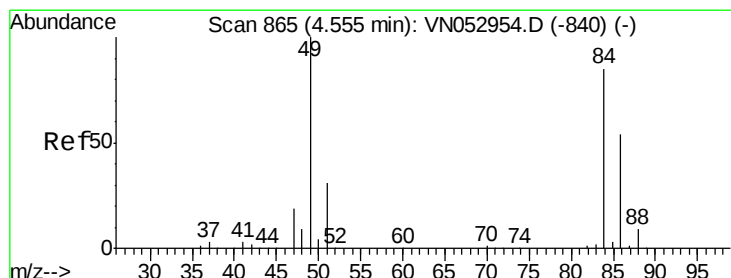
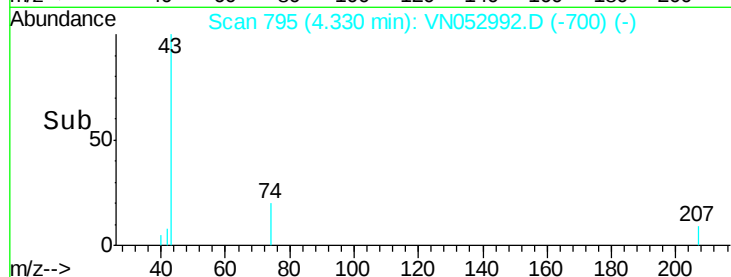
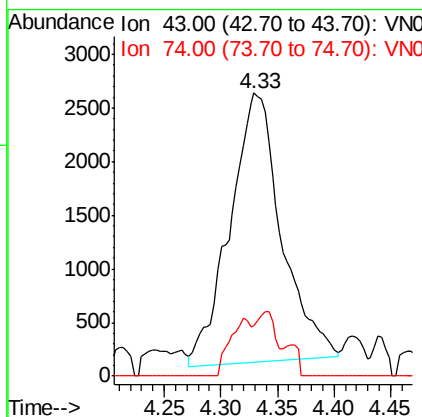
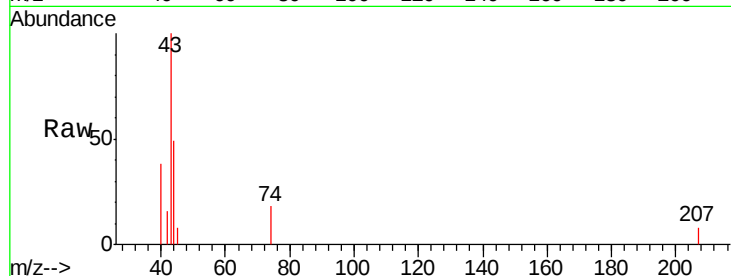




#18  
Methyl Acetate  
Concen: 1.597 ug/l  
RT: 4.33 min Scan# 795  
Delta R.T. 0.01 min  
Lab File: VN052992.D  
Acq: 19 Dec 2018 5:59

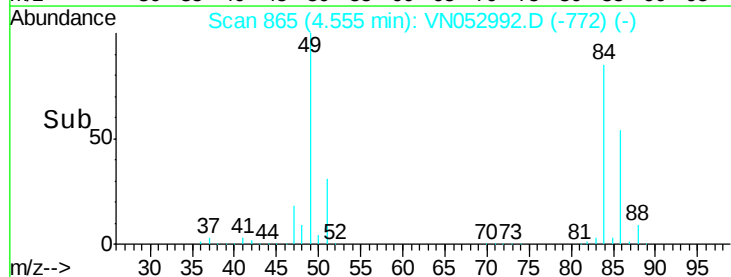
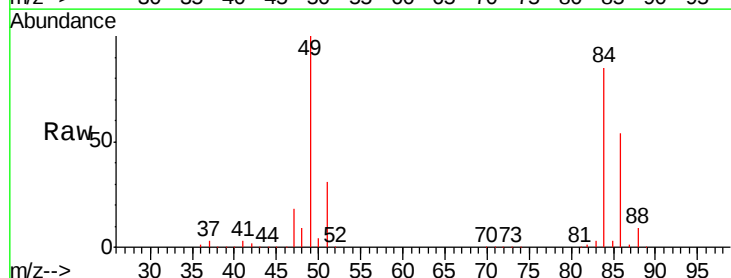
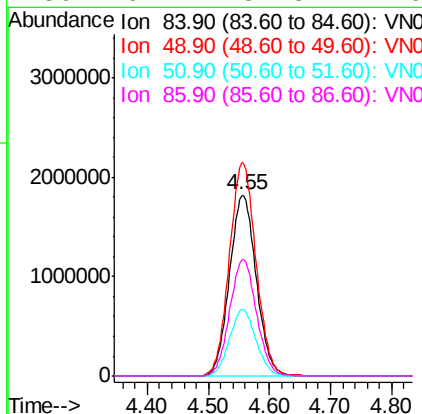
Instrument :  
MSVOA\_N  
ClientSampleId :  
SS-SOIL

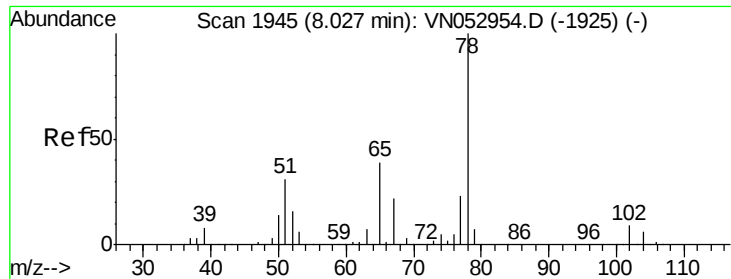
Tgt Ion: 43 Resp: 7927  
Ion Ratio Lower Upper  
43 100  
74 8.7 19.2 28.8#



#20  
Methylene Chloride  
Concen: 360.186 ug/l  
RT: 4.55 min Scan# 865  
Delta R.T. -0.00 min  
Lab File: VN052992.D  
Acq: 19 Dec 2018 5:59

Tgt Ion: 84 Resp: 5557038  
Ion Ratio Lower Upper  
84 100  
49 118.0 96.8 145.2  
51 36.7 29.9 44.9  
86 64.1 51.8 77.6





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN052992.D

Acq: 19 Dec 2018 5:59

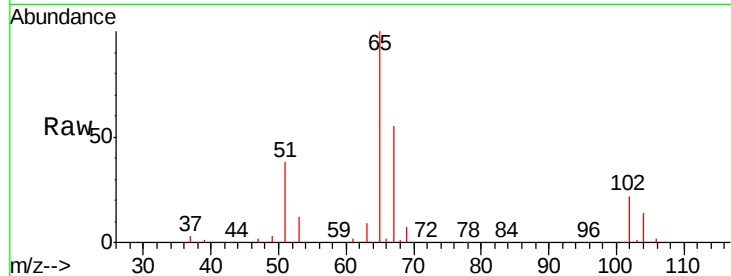
Instrument :  
MSVOA\_N  
ClientSampleId :  
SS-SOIL

Tgt Ion: 65 Resp: 706776

Ion Ratio Lower Upper

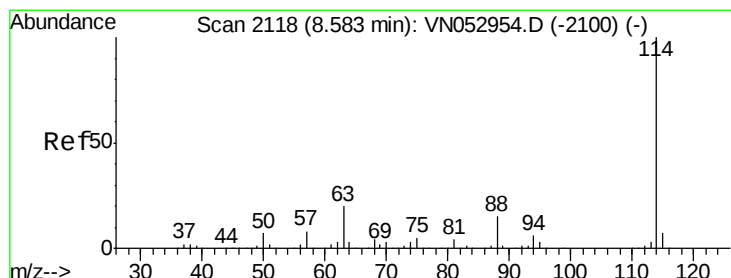
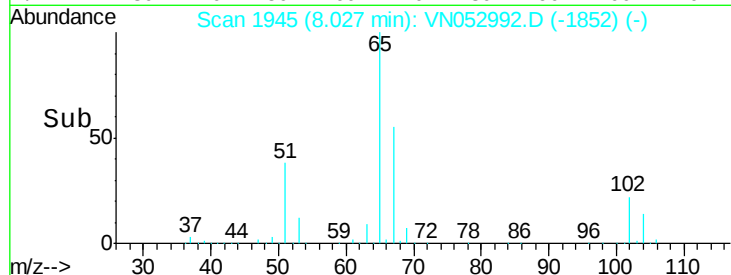
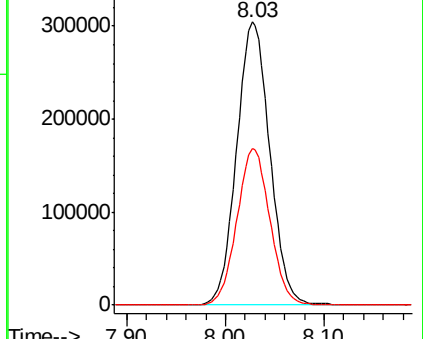
65 100

67 54.9 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN052992.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN052992.D (-1852) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052992.D

Acq: 19 Dec 2018 5:59

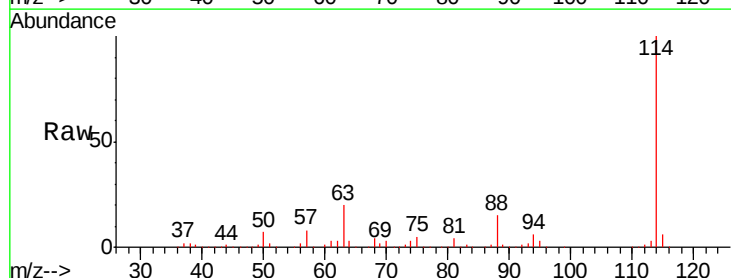
Tgt Ion: 114 Resp: 2193421

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.8

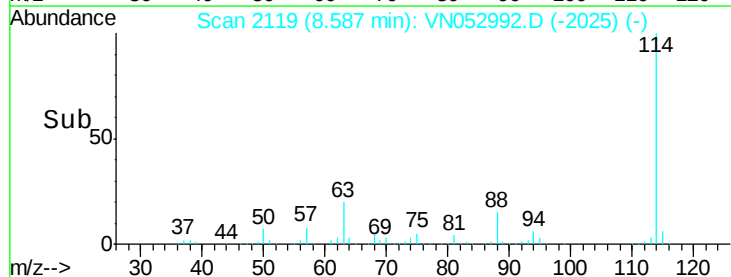
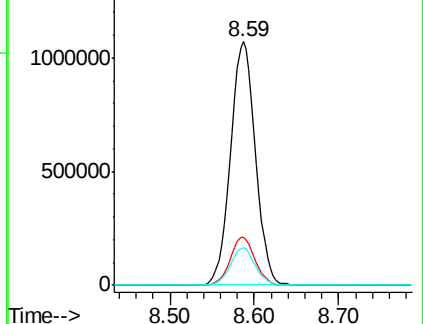
88 15.3 0.0 31.0

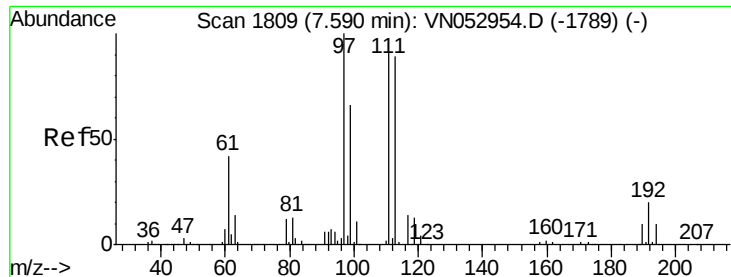


Abundance Ion 113.90 (113.60 to 114.60): VN052992.D (-2025) (-)

Ion 63.00 (62.70 to 63.70): VN052992.D (-2025) (-)

Ion 87.90 (87.60 to 88.60): VN052992.D (-2025) (-)

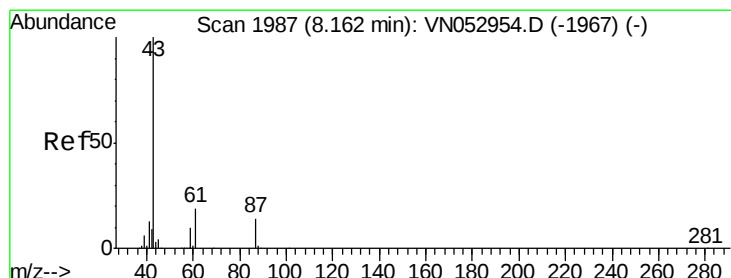
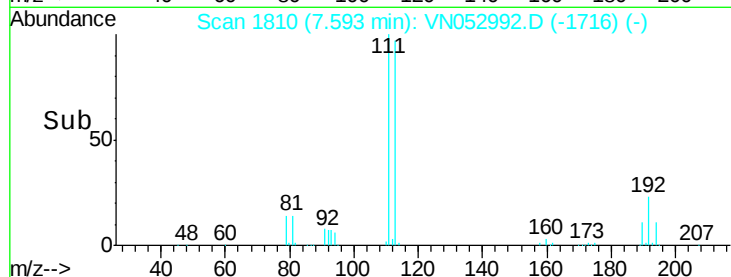
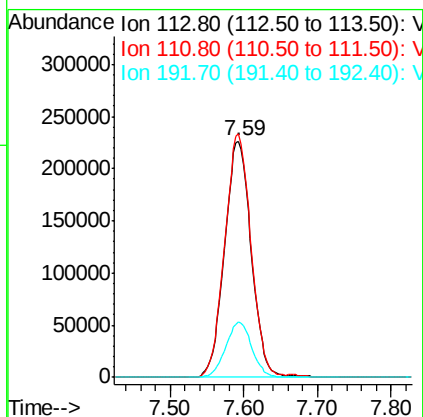
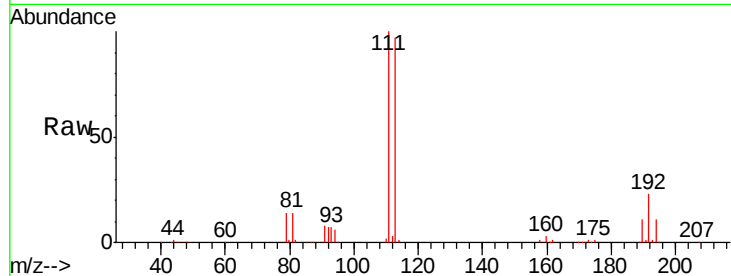




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN052992.D  
 Acq: 19 Dec 2018 5:59

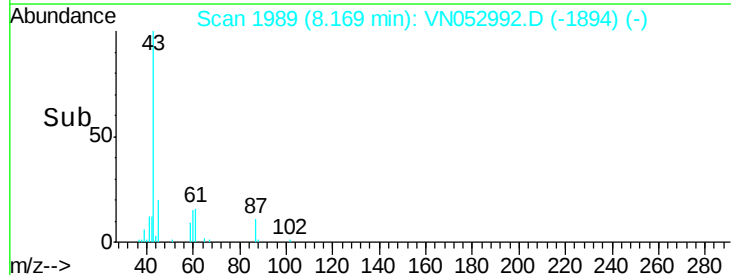
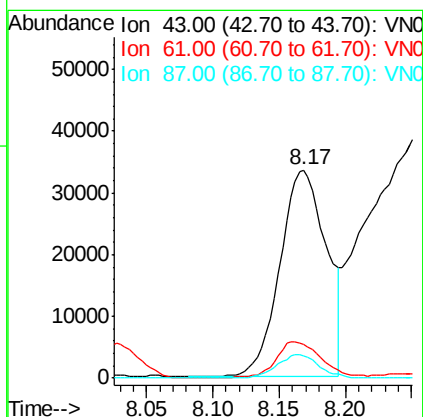
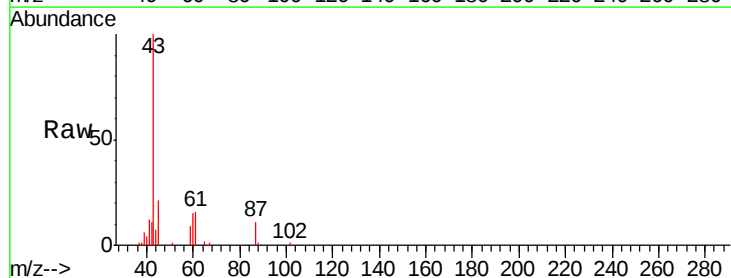
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SS-SOIL

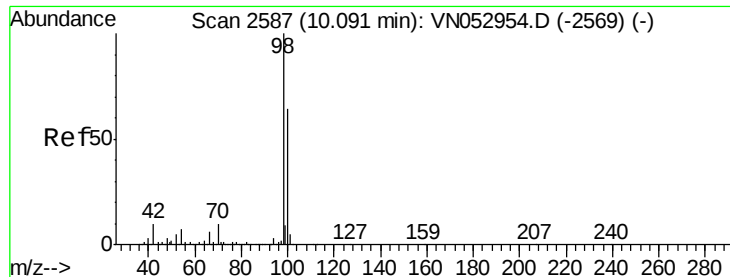
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.1 | 83.0  | 124.4 |
| 192     | 22.8  | 17.5  | 26.3  |



#43  
 Isopropyl Acetate  
 Concen: 2.592 ug/l  
 RT: 8.17 min Scan# 1989  
 Delta R.T. 0.01 min  
 Lab File: VN052992.D  
 Acq: 19 Dec 2018 5:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 17.4  | 22.9  | 34.3# |
| 87      | 10.1  | 10.6  | 15.8# |





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052992.D

Acq: 19 Dec 2018 5:59

Instrument :

MSVOA\_N

ClientSampleId :

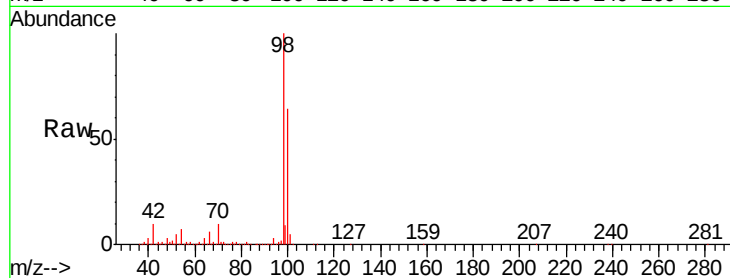
SS-SOIL

Tgt Ion: 98 Resp: 2659840

Ion Ratio Lower Upper

98 100

100 63.7 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN052992.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN052992.D (-2494) (-)

10.09

1500000

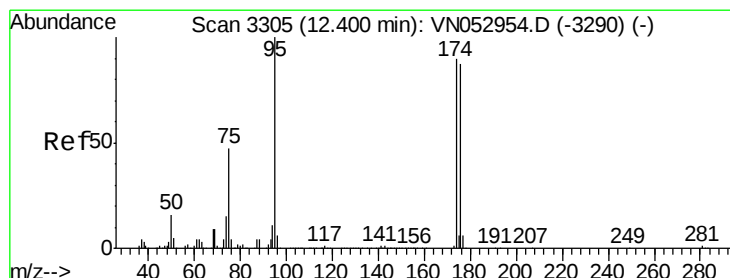
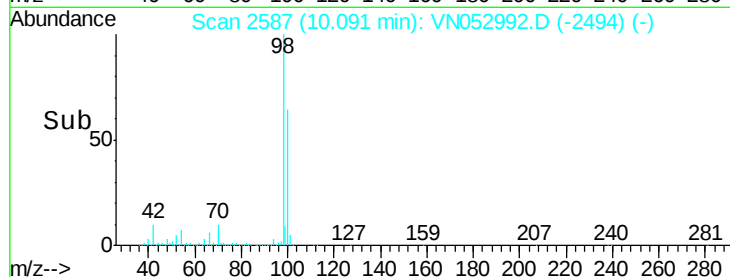
1000000

500000

0

Time-->

10.00 10.10 10.20



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052992.D

Acq: 19 Dec 2018 5:59

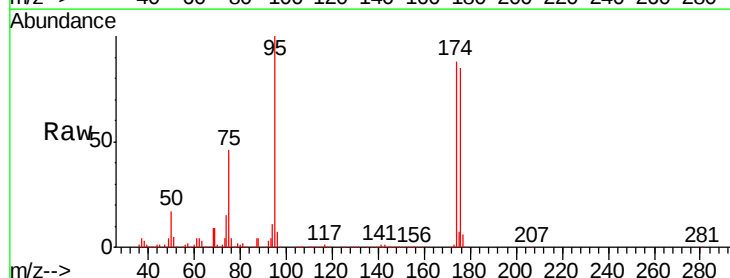
Tgt Ion: 95 Resp: 865930

Ion Ratio Lower Upper

95 100

174 89.4 0.0 178.8

176 87.0 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN052992.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN052992.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN052992.D (-3212) (-)

12.40

600000

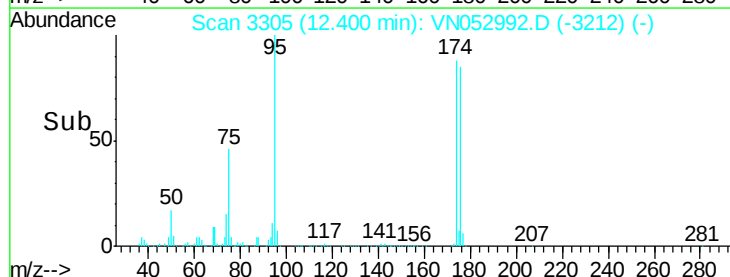
400000

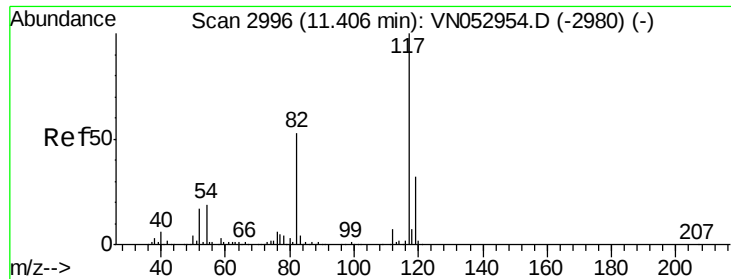
200000

0

Time-->

12.30 12.35 12.40 12.45

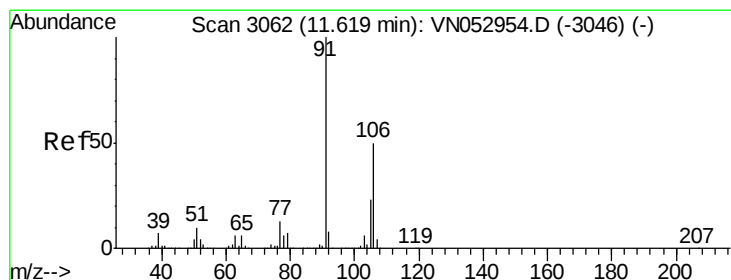
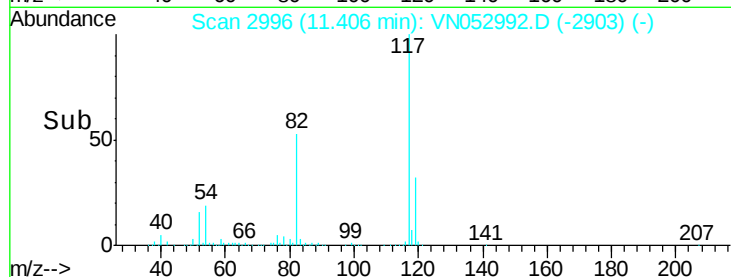
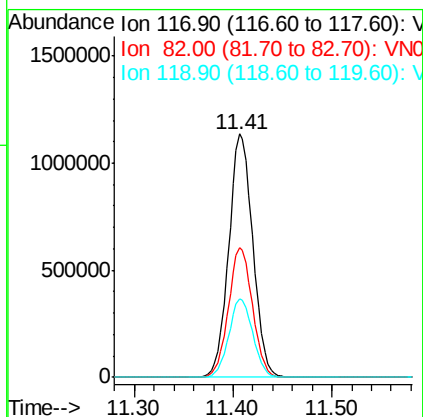
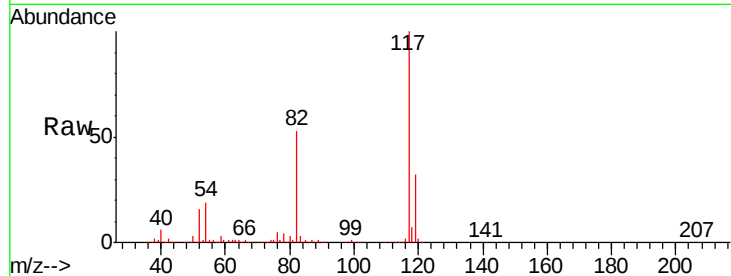




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN052992.D  
Acq: 19 Dec 2018 5:59

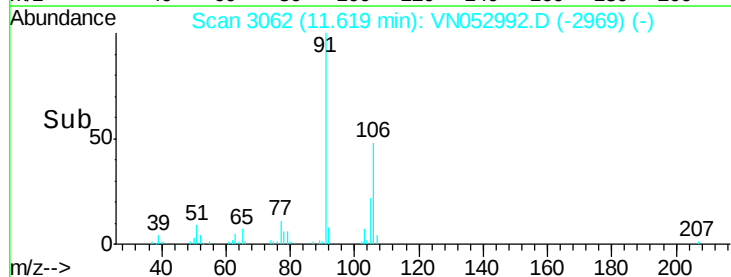
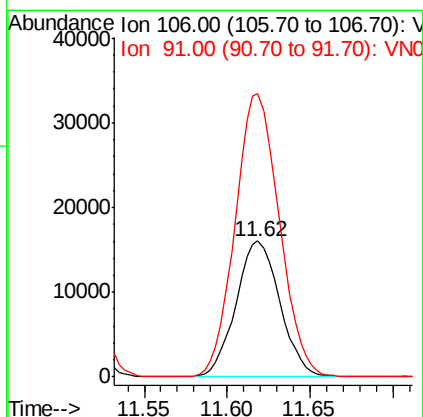
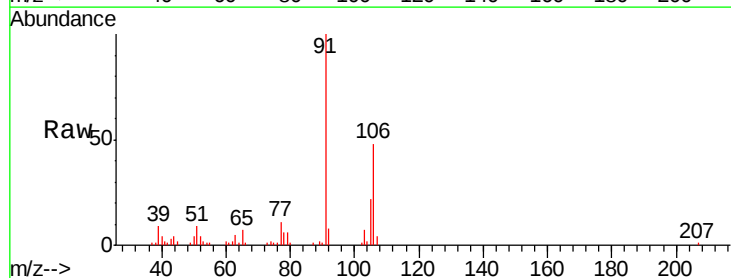
Instrument :  
MSVOA\_N  
ClientSampled :  
SS-SOIL

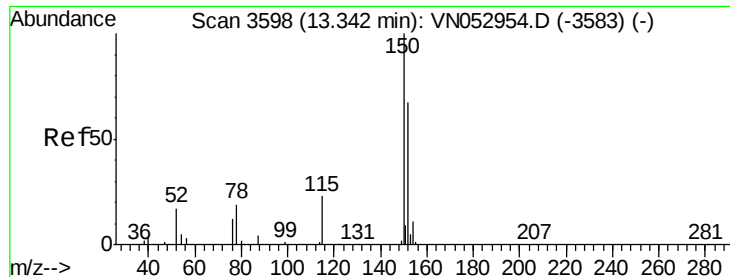
Tgt Ion:117 Resp: 1934185  
Ion Ratio Lower Upper  
117 100  
82 53.4 42.8 64.2  
119 32.2 25.5 38.3



#68  
m/p-Xylenes  
Concen: 1.055 ug/l  
RT: 11.62 min Scan# 3062  
Delta R.T. -0.00 min  
Lab File: VN052992.D  
Acq: 19 Dec 2018 5:59

Tgt Ion:106 Resp: 29566  
Ion Ratio Lower Upper  
106 100  
91 209.4 162.2 243.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052992.D

Acq: 19 Dec 2018 5:59

Instrument :

MSVOA\_N

ClientSampleId :

SS-SOIL

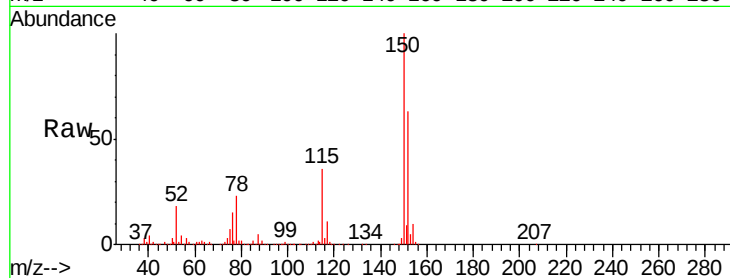
Tgt Ion:152 Resp: 777170

Ion Ratio Lower Upper

152 100

115 56.7 28.3 85.0

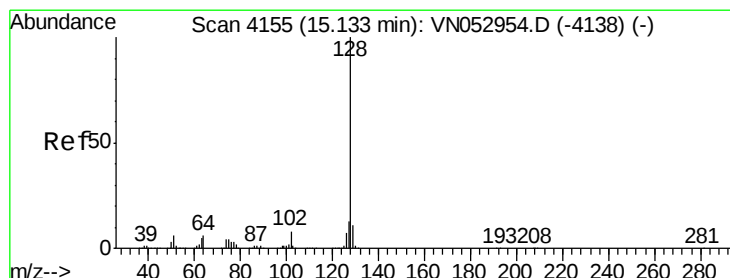
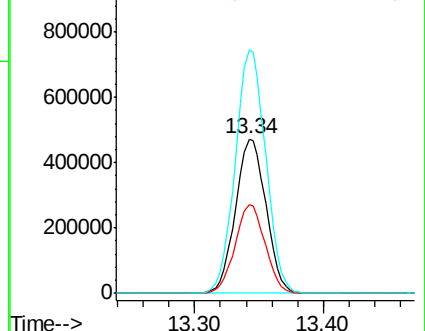
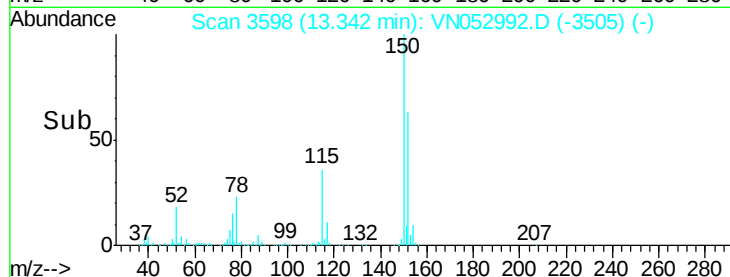
150 157.1 0.0 347.8



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



#95

Naphthalene

Concen: 5.155 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052992.D

Acq: 19 Dec 2018 5:59

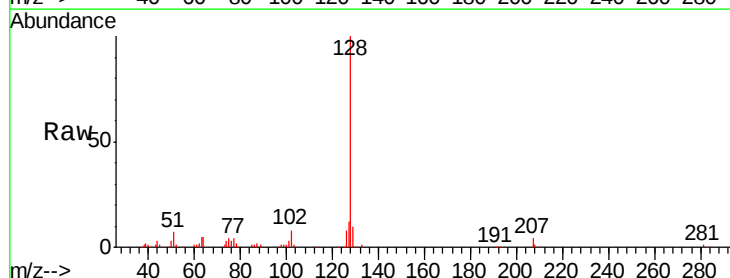
Tgt Ion:128 Resp: 125367

Ion Ratio Lower Upper

128 100

127 12.3 10.2 15.4

129 10.2 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

