

Data File : VV009609.D  
Acq On : 12 Mar 2019 17:30  
Operator : SY/MD  
Sample : K1789-02ME  
Misc : 5.59g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFON8ME

Quant Time: Mar 13 02:22:42 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Mar 13 02:20:07 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.66  | 114  | 163408   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 158407   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 72058    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 39288    | 40.62    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 81.24%  |
| 7) Chloroethane-d5             | 1.55    | 69    | 23162    | 23.01    | ug/L | -0.03   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 46.02%# |
| 11) 1,1-Dichloroethene-d2      | 2.10    | 63    | 90704    | 35.55    | ug/L | -0.03   |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 71.10%  |
| 21) 2-Butanone-d5              | 3.95    | 46    | 59237    | 82.88    | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 82.88%  |
| 24) Chloroform-d               | 4.40    | 84    | 90345    | 42.76    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 85.52%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 65761    | 47.04    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.08%  |
| 32) Benzene-d6                 | 5.09    | 84    | 196995   | 47.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 95.66%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 60897    | 49.44    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 98.88%  |
| 41) Toluene-d8                 | 7.36    | 98    | 193712   | 48.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.54%  |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 29322    | 46.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.18%  |
| 47) 2-Hexanone-d5              | 8.14    | 63    | 54065    | 100.36   | ug/L | 0.02    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 100.36% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27   | 84    | 93778    | 47.40    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 94.80%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 69645    | 45.82    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 91.64%  |

#### Target Compounds

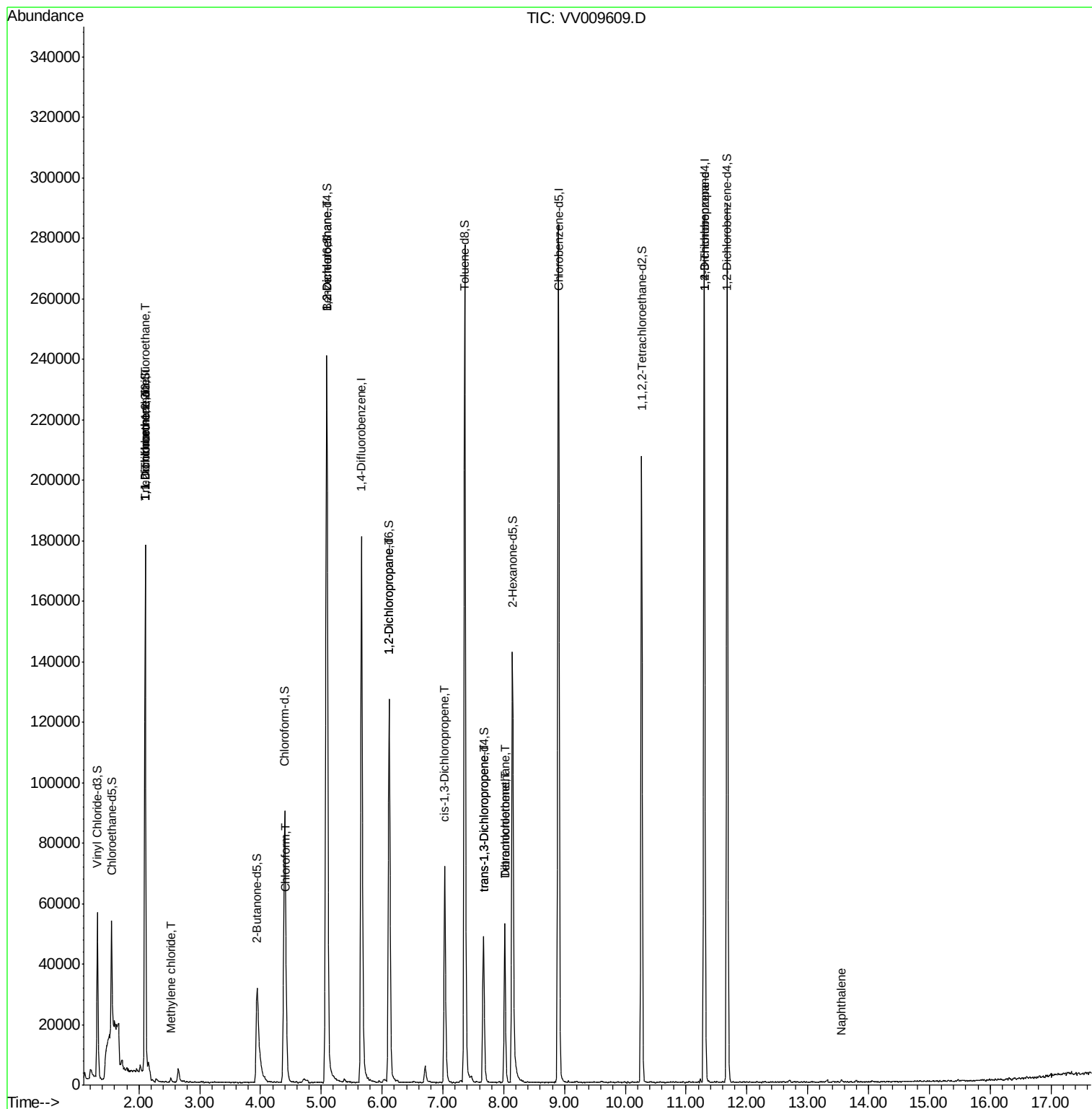
|                                |       |     |       |        |        | Qvalue |
|--------------------------------|-------|-----|-------|--------|--------|--------|
| 9) Trichlorofluoromethane      | 2.10  | 101 | 844   | 0.378  | ug/L # | 40     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.10  | 101 | 844   | 0.682  | ug/L # | 19     |
| 12) 1,1-Dichloroethene         | 2.10  | 96  | 598   | 0.565  | ug/L # | 1      |
| 16) Methylene chloride         | 2.53  | 84  | 493   | 0.479  | ug/L   | 80     |
| 25) Chloroform                 | 4.43  | 83  | 5788  | 2.893  | ug/L   | 93     |
| 27) 1,2-Dichloroethane         | 5.09  | 62  | 1174  | 0.749  | ug/L # | 78     |
| 37) 1,2-Dichloropropane        | 6.12  | 63  | 6821  | 6.731  | ug/L # | 87     |
| 39) cis-1,3-Dichloropropene    | 7.03  | 75  | 2345  | 1.452  | ug/L   | 89     |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75  | 1984  | 1.308  | ug/L   | 90     |
| 46) Tetrachloroethene          | 8.02  | 164 | 10615 | 12.724 | ug/L   | 98     |
| 49) Dibromochloromethane       | 8.02  | 129 | 9482  | 8.151  | ug/L # | 11     |
| 59) 1,2,3-Trichloropropane     | 11.30 | 75  | 9756  | 7.101  | ug/L   | 90     |
| 69) Naphthalene                | 13.55 | 128 | 1273  | 0.460  | ug/L # | 69     |

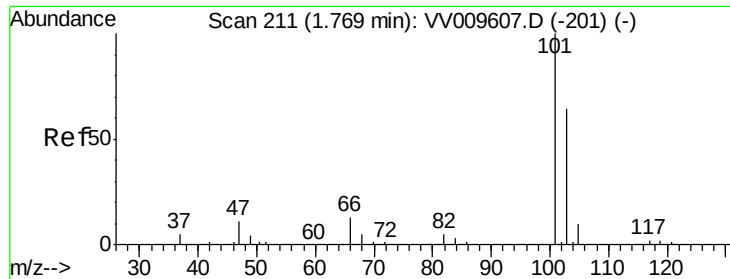
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : VV009609.D  
Acq On : 12 Mar 2019 17:30  
Operator : SY/MD  
Sample : K1789-02ME  
Misc : 5.59g/5.0mL/100uL/5.0mL/MSVOA\_V/MEOH  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BF0N8ME

Quant Time: Mar 13 02:22:42 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM031219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Wed Mar 13 02:20:07 2019  
Response via : Initial Calibration





#9

Trichlorofluoromethane

Concen: 0.378 ug/L

RT: 2.10 min Scan# 314

Delta R.T. 0.33 min

Lab File: VV009609.D

Acq: 12 Mar 2019 17:30

Instrument :

MSVOA\_V

ClientSampleId :

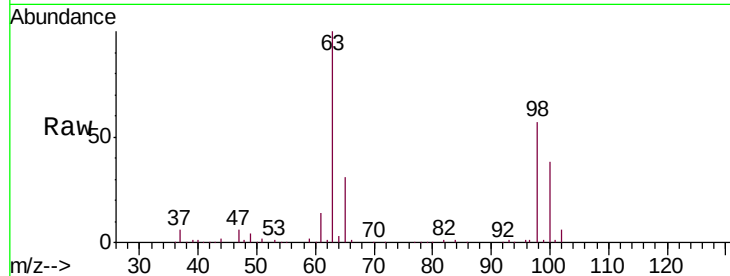
BFON8ME

Tgt Ion:101 Resp: 844

Ion Ratio Lower Upper

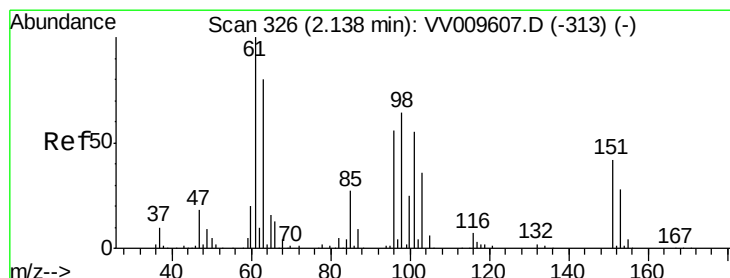
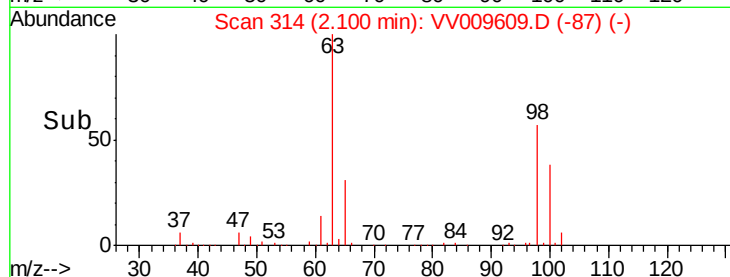
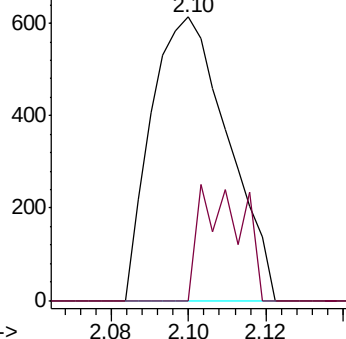
101 100

103 17.4 51.8 77.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.682 ug/L

RT: 2.10 min Scan# 314

Delta R.T. -0.04 min

Lab File: VV009609.D

Acq: 12 Mar 2019 17:30

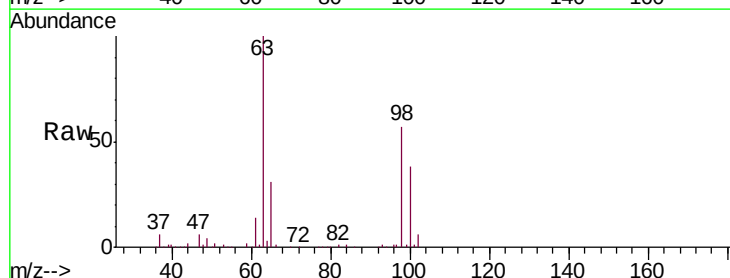
Tgt Ion:101 Resp: 844

Ion Ratio Lower Upper

101 100

85 0.0 37.8 56.6#

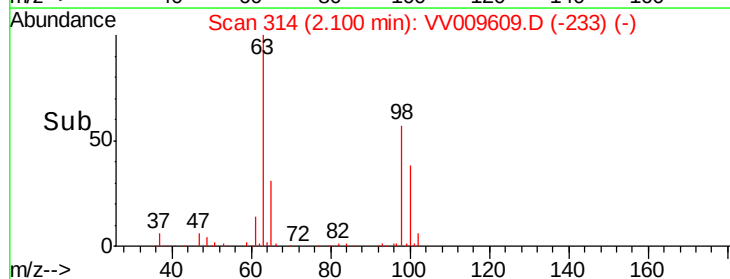
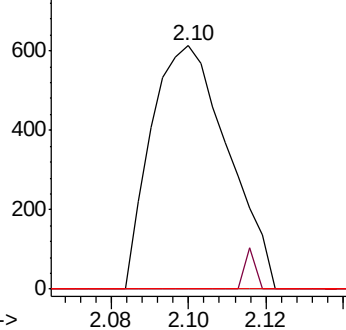
151 0.0 59.6 89.4#

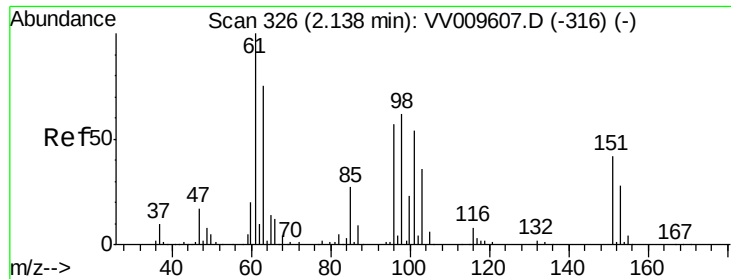


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V

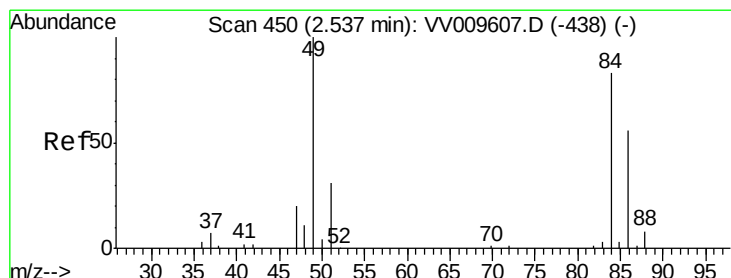
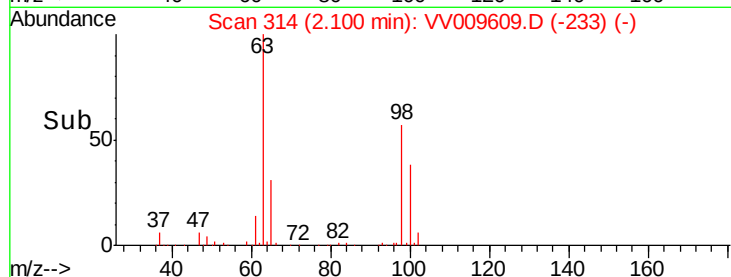
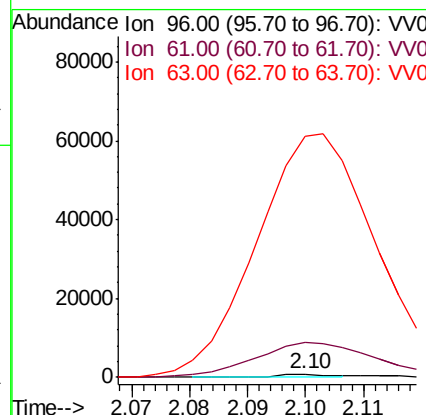
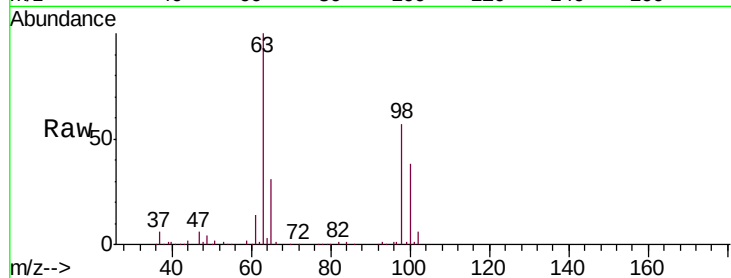




#12  
 1,1-Dichloroethene  
 Concen: 0.565 ug/L  
 RT: 2.10 min Scan# 314  
 Delta R.T. -0.04 min  
 Lab File: VV009609.D  
 Acq: 12 Mar 2019 17:30

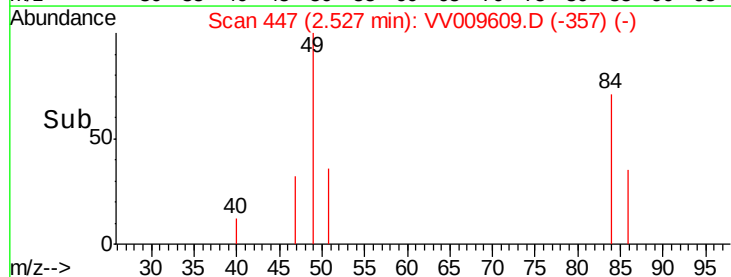
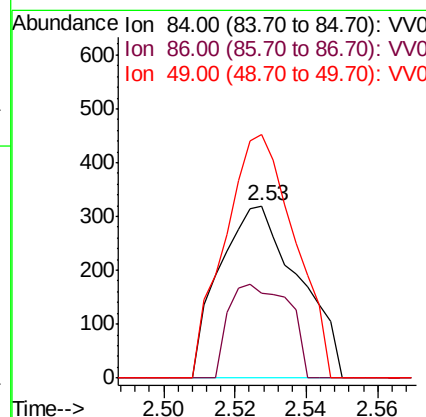
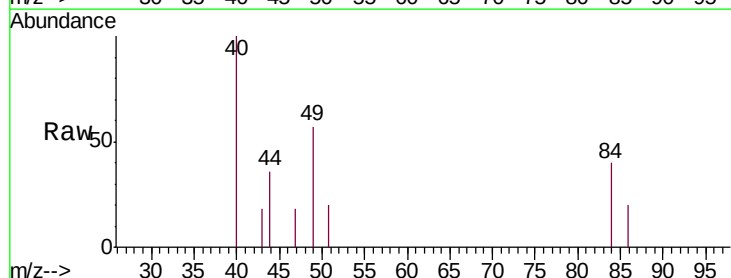
Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFON8ME

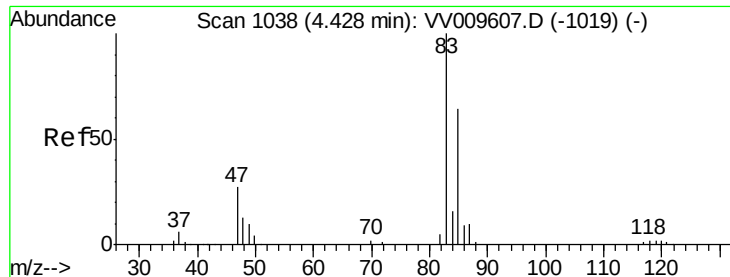
Tgt Ion: 96 Resp: 598  
 Ion Ratio Lower Upper  
 96 100  
 61 1095.5 122.1 226.7#  
 63 7659.1 107.6 199.8#



#16  
 Methylene chloride  
 Concen: 0.479 ug/L  
 RT: 2.53 min Scan# 447  
 Delta R.T. -0.01 min  
 Lab File: VV009609.D  
 Acq: 12 Mar 2019 17:30

Tgt Ion: 84 Resp: 493  
 Ion Ratio Lower Upper  
 84 100  
 86 49.4 44.0 81.6  
 49 141.3 82.0 152.4

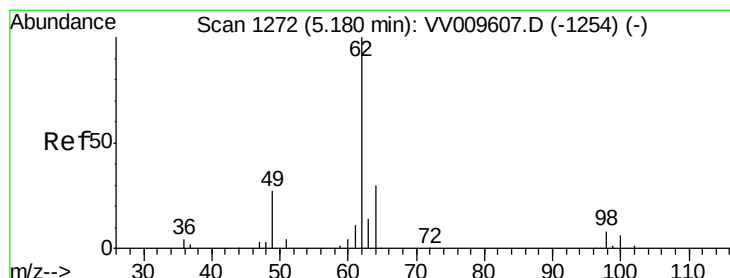
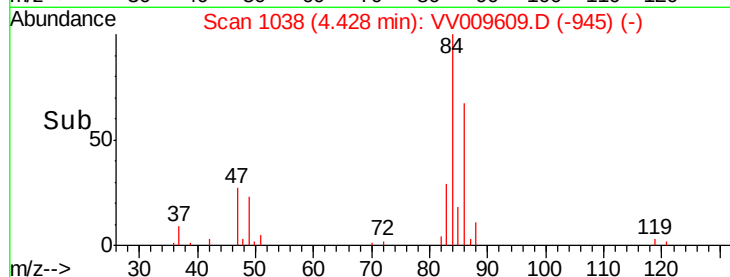
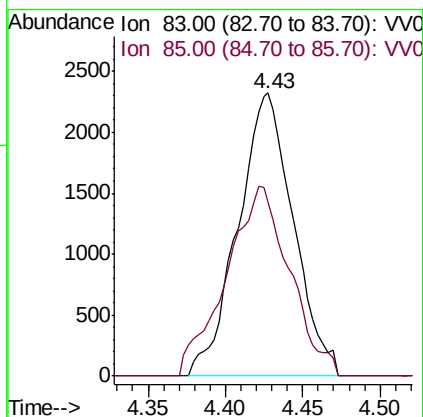
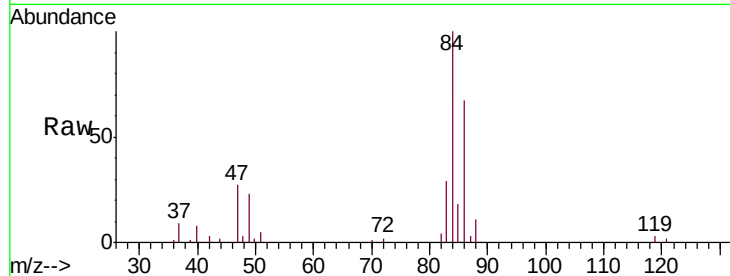




#25  
Chloroform  
Concen: 2.893 ug/L  
RT: 4.43 min Scan# 1038  
Delta R.T. 0.00 min  
Lab File: VV009609.D  
Acq: 12 Mar 2019 17:30

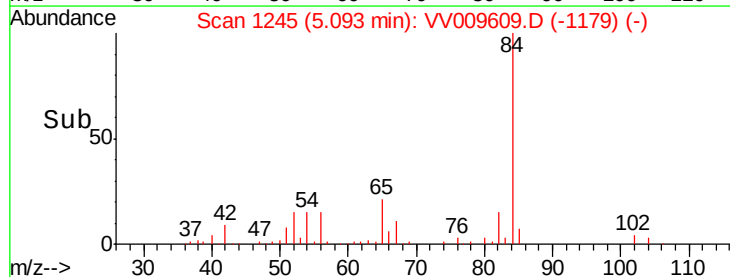
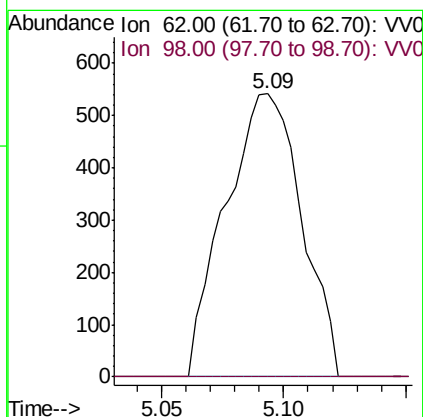
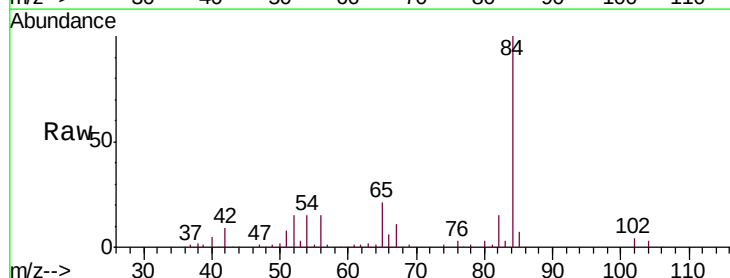
Instrument :  
MSVOA\_V  
ClientSampleId :  
BFON8ME

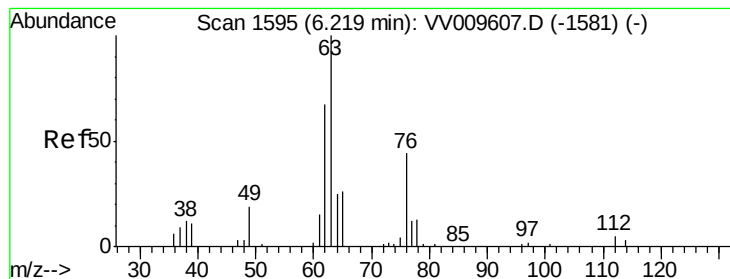
Tgt Ion: 83 Resp: 5788  
Ion Ratio Lower Upper  
83 100  
85 61.6 47.0 87.4



#27  
1,2-Dichloroethane  
Concen: 0.749 ug/L  
RT: 5.09 min Scan# 1245  
Delta R.T. -0.09 min  
Lab File: VV009609.D  
Acq: 12 Mar 2019 17:30

Tgt Ion: 62 Resp: 1174  
Ion Ratio Lower Upper  
62 100  
98 0.0 6.2 9.4#





#37

1,2-Dichloropropane

Concen: 6.731 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.10 min

Lab File: VV009609.D

Acq: 12 Mar 2019 17:30

Instrument :

MSVOA\_V

ClientSampleId :

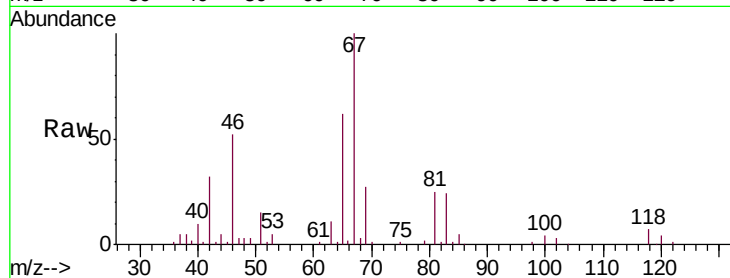
BFON8ME

Tgt Ion: 63 Resp: 6821

Ion Ratio Lower Upper

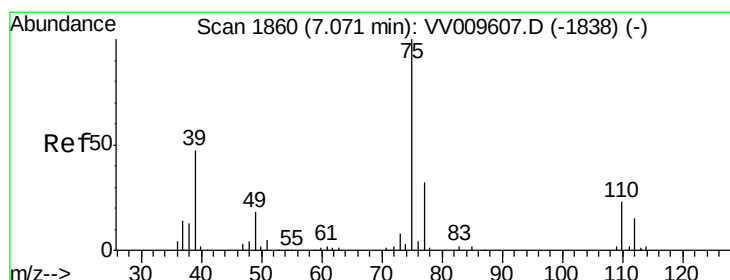
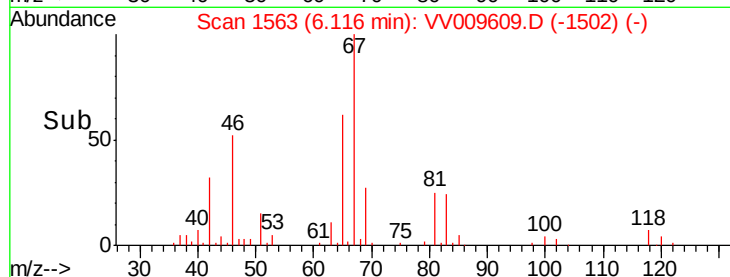
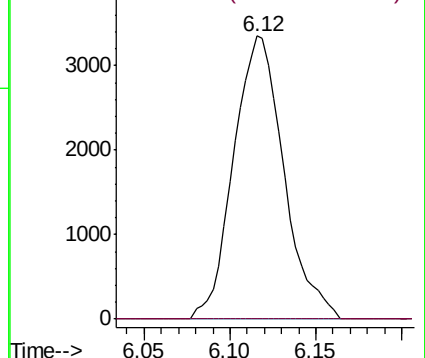
63 100

112 0.0 3.4 5.0#



Abundance Ion 63.00 (62.70 to 63.70): VV009607.D (-1581) (-)

Ion 112.00 (111.70 to 112.70): VV009607.D (-1581) (-)



#39

cis-1,3-Dichloropropene

Concen: 1.452 ug/L

RT: 7.03 min Scan# 1848

Delta R.T. -0.04 min

Lab File: VV009609.D

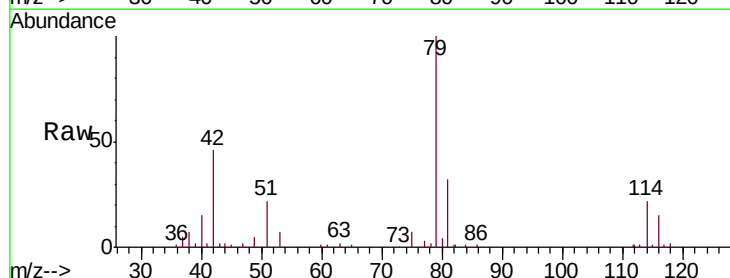
Acq: 12 Mar 2019 17:30

Tgt Ion: 75 Resp: 2345

Ion Ratio Lower Upper

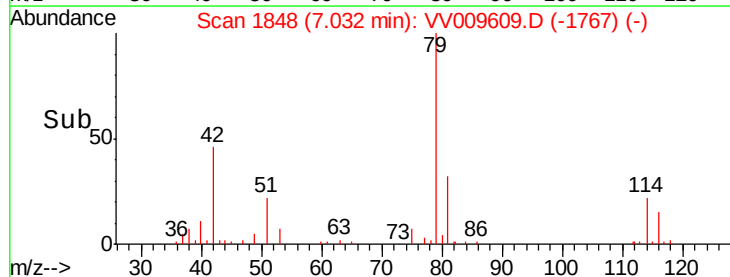
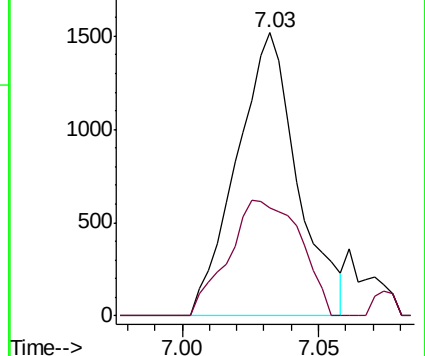
75 100

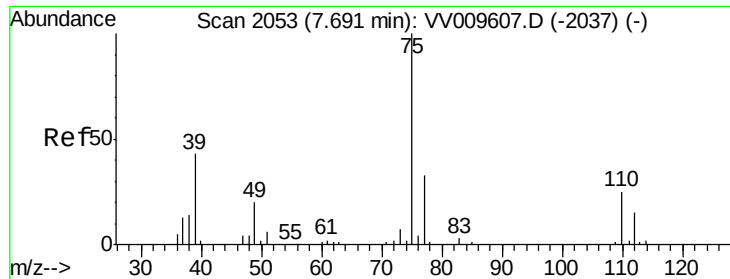
77 38.1 22.3 41.5



Abundance Ion 75.00 (74.70 to 75.70): VV009607.D (-1838) (-)

Ion 77.00 (76.70 to 77.70): VV009607.D (-1838) (-)





#44

trans-1,3-Dichloropropene

Concen: 1.308 ug/L

RT: 7.67 min Scan# 2046

Delta R.T. -0.02 min

Lab File: VV009609.D

Acq: 12 Mar 2019 17:30

Instrument :

MSVOA\_V

ClientSampled :

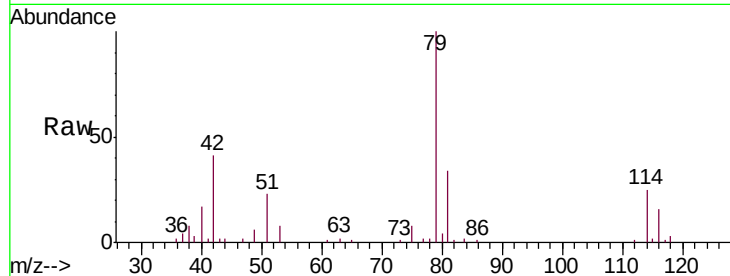
BFON8ME

Tgt Ion: 75 Resp: 1984

Ion Ratio Lower Upper

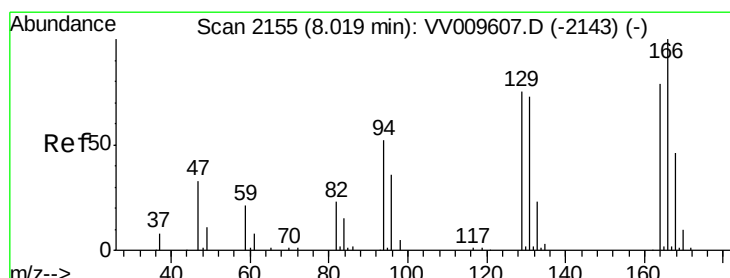
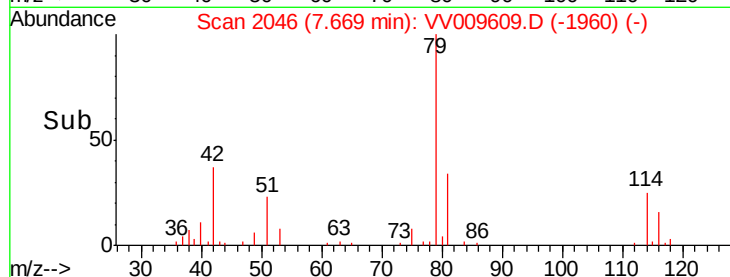
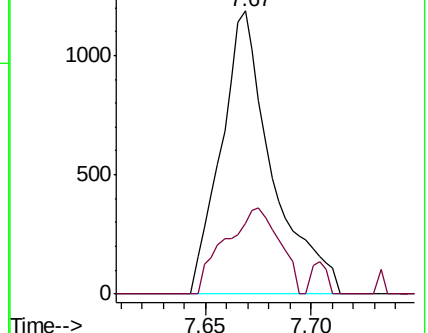
75 100

77 25.2 21.6 40.2



Abundance Ion 75.00 (74.70 to 75.70): VV009609.D (-1960) (-)

Ion 77.00 (76.70 to 77.70): VV009609.D (-1960) (-)



#46

Tetrachloroethene

Concen: 12.724 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV009609.D

Acq: 12 Mar 2019 17:30

Tgt Ion:164 Resp: 10615

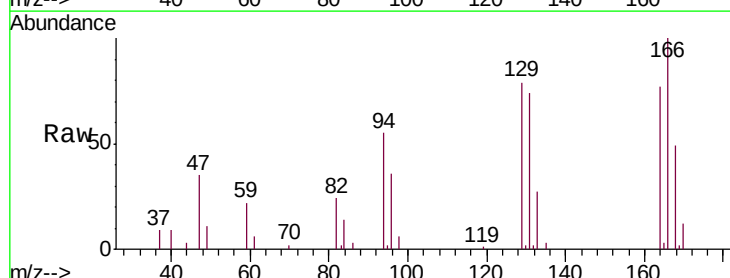
Ion Ratio Lower Upper

164 100

129 102.1 70.8 131.6

131 95.6 68.3 126.9

166 129.9 89.5 166.3

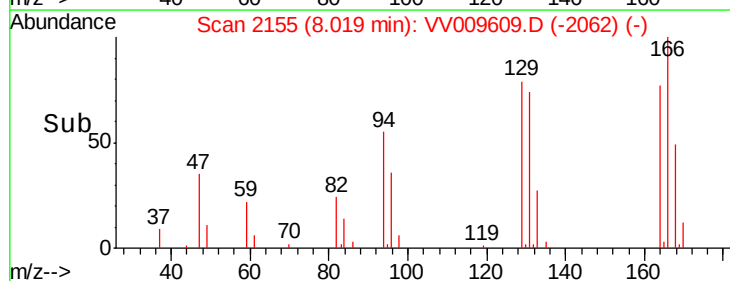
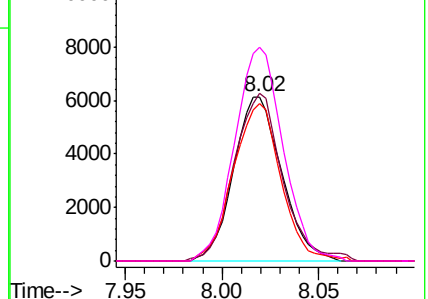


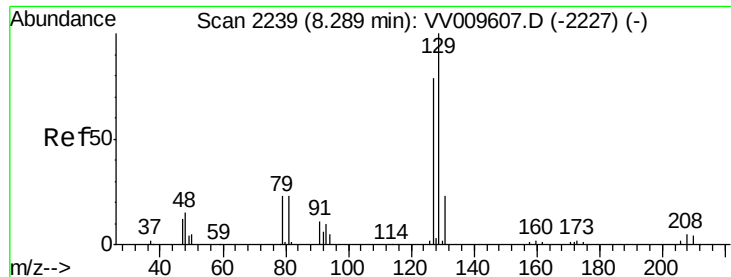
Abundance Ion 164.00 (163.70 to 164.70): VV009609.D (-2062) (-)

Ion 129.00 (128.70 to 129.70): VV009609.D (-2062) (-)

Ion 131.00 (130.70 to 131.70): VV009609.D (-2062) (-)

Ion 166.00 (165.70 to 166.70): VV009609.D (-2062) (-)





#49

Dibromochloromethane

Concen: 8.151 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.27 min

Lab File: VV009609.D

Acq: 12 Mar 2019 17:30

Instrument :

MSVOA\_V

ClientSampleId :

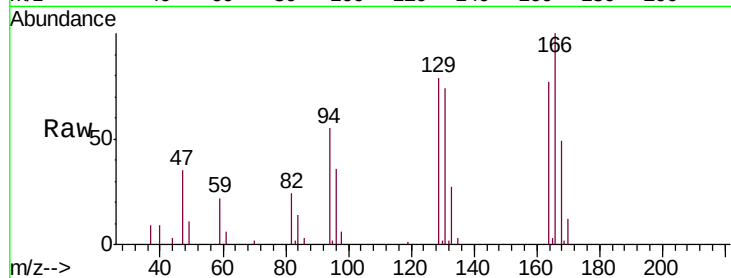
BFON8ME

Tgt Ion:129 Resp: 9482

Ion Ratio Lower Upper

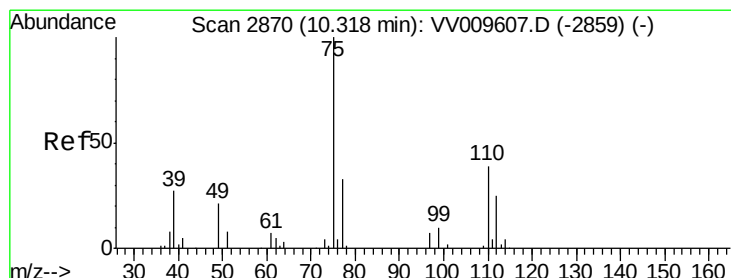
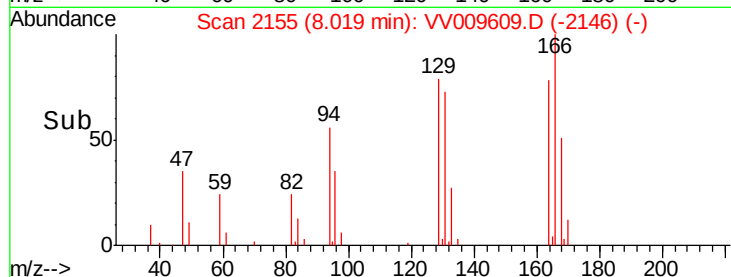
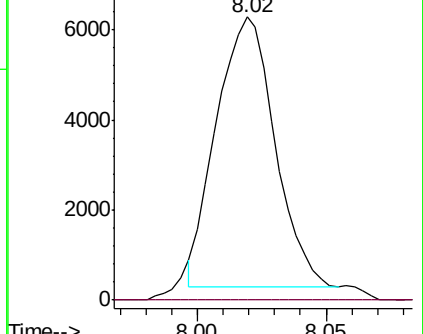
129 100

127 0.0 53.3 99.1#



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#59

1,2,3-Trichloropropane

Concen: 7.101 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.98 min

Lab File: VV009609.D

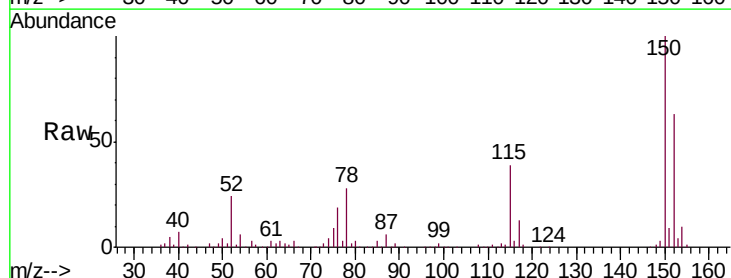
Acq: 12 Mar 2019 17:30

Tgt Ion: 75 Resp: 9756

Ion Ratio Lower Upper

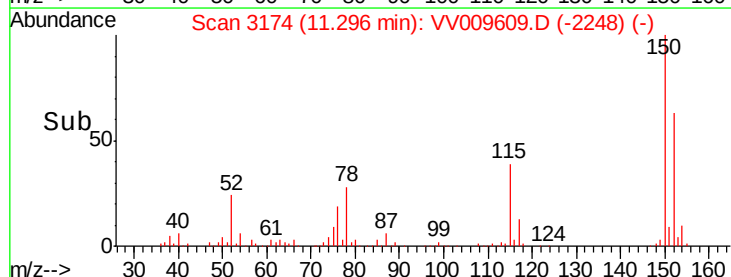
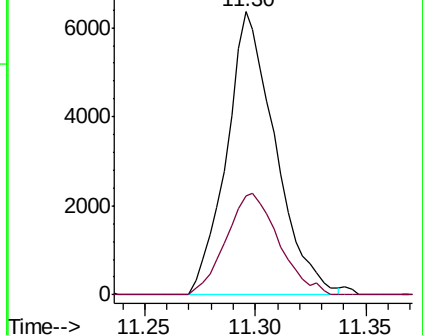
75 100

77 38.8 26.6 40.0

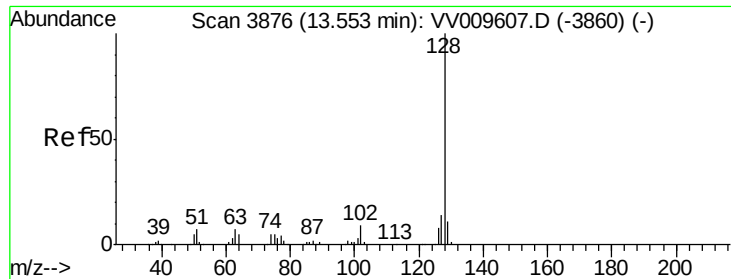


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0







#69

Naphthalene

Concen: 0.460 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009609.D

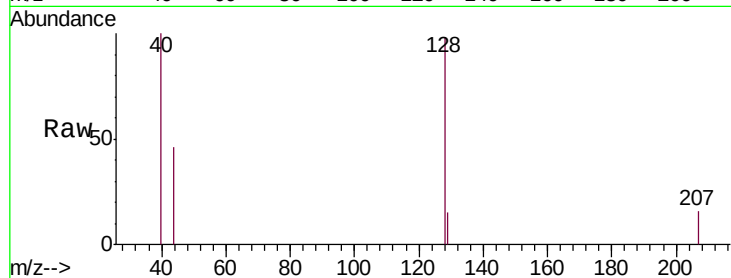
Acq: 12 Mar 2019 17:30

Instrument :

MSVOA\_V

ClientSampleId :

BFON8ME



Tgt Ion:128 Resp: 1273

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.8 13.2#

