

Data File : VW009681.D  
Acq On : 04 Apr 2019 03:11  
Operator : SY/VA  
Sample : K2188-03  
Misc : 3.18G/10ML/MSVOA\_W/SOIL  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
BF650

Quant Time: Apr 04 03:51:36 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M  
Quant Title : VOC Analysis  
QLast Update : Thu Apr 04 02:03:18 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 488405   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 343788   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 93518    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 217913   | 34.10    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 136.40%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 174584   | 29.82    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 119.28%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 309703   | 22.53    | ug/L | -0.01    |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 90.12%   |
| 20) 2-Butanone-d5              | 7.07   | 46    | 92809    | 44.73    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 89.46%   |
| 24) Chloroform-d               | 7.65   | 84    | 354933   | 26.63    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 106.52%  |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 206547   | 25.24    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 100.96%  |
| 29) Benzene-d6                 | 8.27   | 84    | 682051   | 37.79    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 151.16%# |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 197436   | 35.42    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 141.68%# |
| 37) Toluene-d8                 | 10.32  | 98    | 551830   | 33.07    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 132.28%# |
| 38) trans-1,3-Dichloropropene- | 10.57  | 79    | 35776    | 13.46    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 53.84%   |
| 39) 2-Hexanone-d5              | 10.92  | 63    | 62192    | 59.19    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 118.38%  |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 96686    | 18.66    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 74.64%   |
| 61) 1,2-Dichlorobenzene-d4     | 13.86  | 152   | 77485    | 23.61    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 94.44%   |

#### Target Compounds

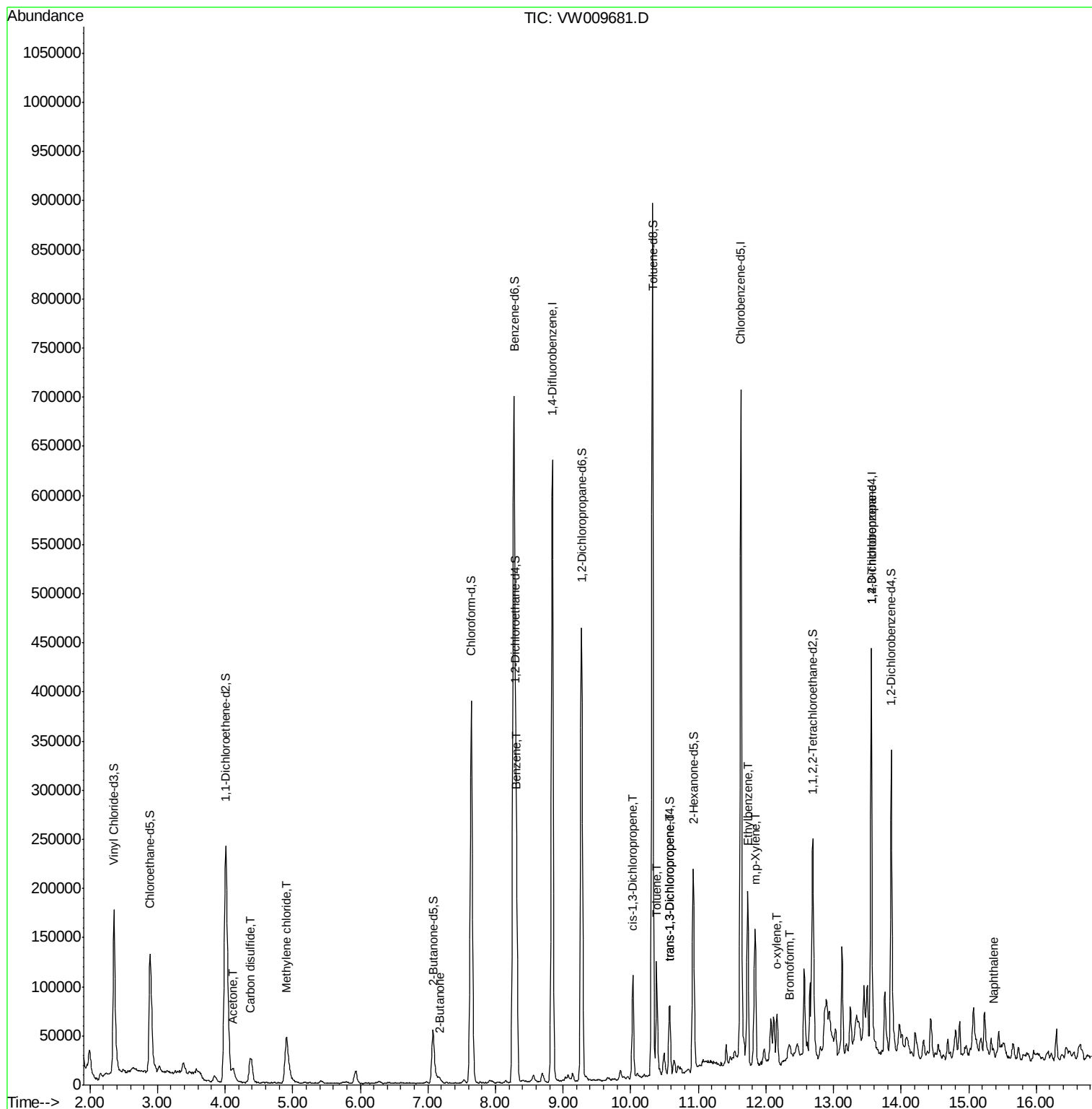
|                               |       |     |        |              | Qvalue |
|-------------------------------|-------|-----|--------|--------------|--------|
| 13) Acetone                   | 4.12  | 43  | 18017  | 8.103 ug/L   | 97     |
| 14) Carbon disulfide          | 4.37  | 76  | 50909  | 2.525 ug/L   | 95     |
| 16) Methylene chloride        | 4.91  | 84  | 20809  | 2.416 ug/L   | 96     |
| 21) 2-Butanone                | 7.18  | 43  | 3862   | 1.366 ug/L   | 82     |
| 34) Benzene                   | 8.32  | 78  | 22294  | 1.078 ug/L   | 100    |
| 42) cis-1,3-Dichloropropene   | 10.03 | 75  | 2889   | 0.352 ug/L # | 76     |
| 44) Toluene                   | 10.38 | 91  | 79848  | 3.644 ug/L   | 99     |
| 45) trans-1,3-Dichloropropene | 10.58 | 75  | 2352   | 0.333 ug/L   | 91     |
| 53) Ethylbenzene              | 11.73 | 91  | 111749 | 4.477 ug/L   | 99     |
| 54) m,p-Xylene                | 11.83 | 106 | 25697  | 2.783 ug/L   | 88     |
| 55) o-xylene                  | 12.16 | 106 | 13057  | 1.485 ug/L   | 97     |
| 59) 1,2,3-Trichloropropane    | 13.55 | 75  | 13118  | 3.298 ug/L   | 93     |
| 62) Bromoform                 | 12.34 | 173 | 406    | 0.247 ug/L # | 62     |
| 69) Naphthalene               | 15.36 | 128 | 6595   | 0.952 ug/L # | 89     |

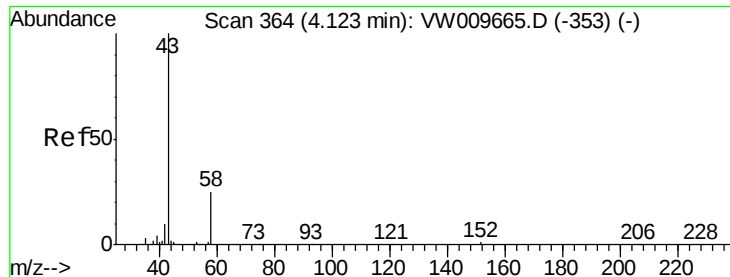
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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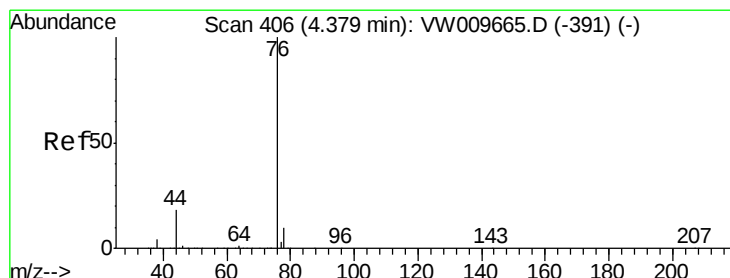
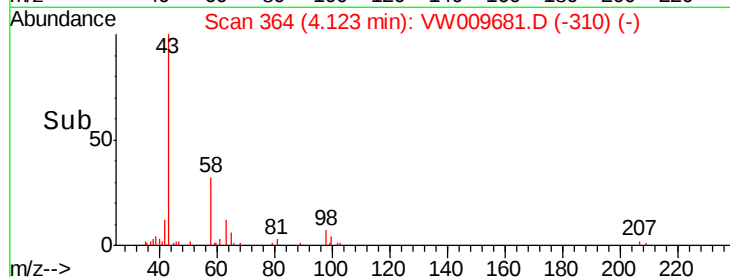
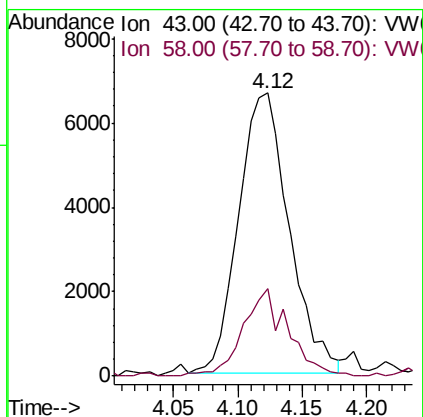
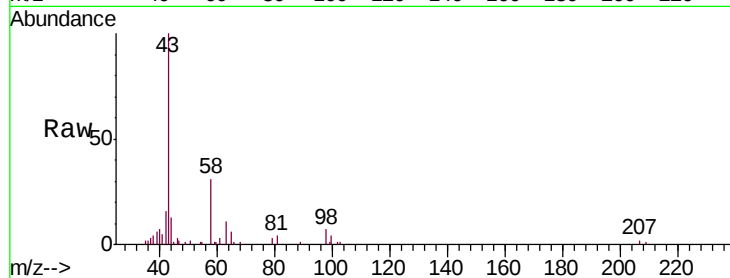




#13  
Acetone  
Concen: 8.103 ug/L  
RT: 4.12 min Scan# 364  
Delta R.T. 0.00 min  
Lab File: VW009681.D  
Acq: 04 Apr 2019 03:11

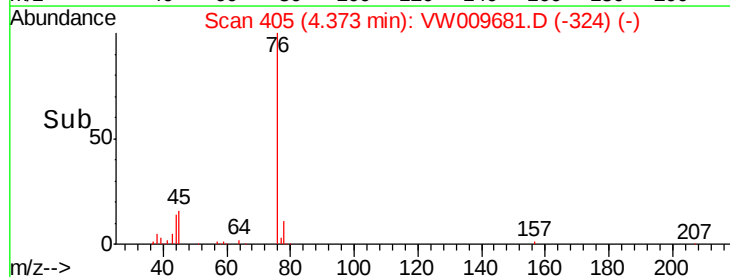
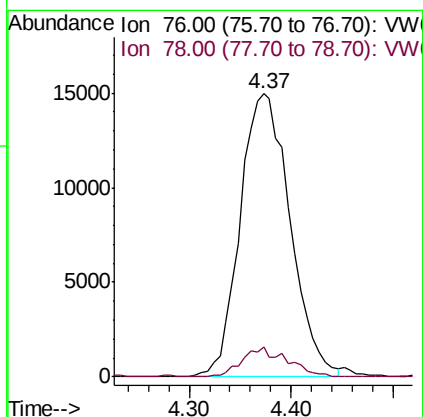
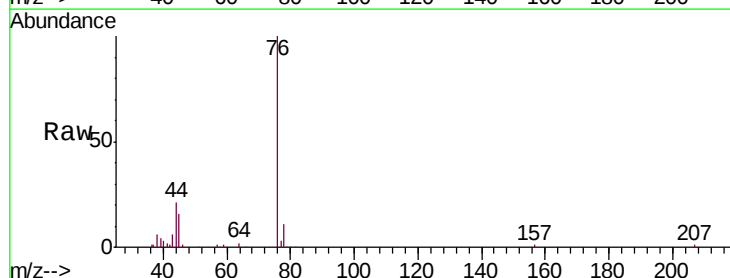
Instrument :  
MSVOA\_W  
ClientSampled :  
BF650

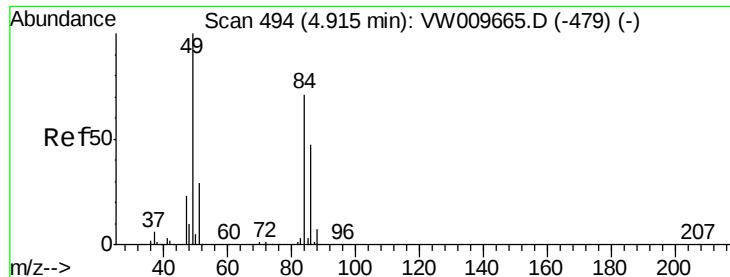
Tgt Ion: 43 Resp: 18017  
Ion Ratio Lower Upper  
43 100  
58 27.9 0.0 53.0



#14  
Carbon disulfide  
Concen: 2.525 ug/L  
RT: 4.37 min Scan# 405  
Delta R.T. -0.01 min  
Lab File: VW009681.D  
Acq: 04 Apr 2019 03:11

Tgt Ion: 76 Resp: 50909  
Ion Ratio Lower Upper  
76 100  
78 10.7 7.3 10.9

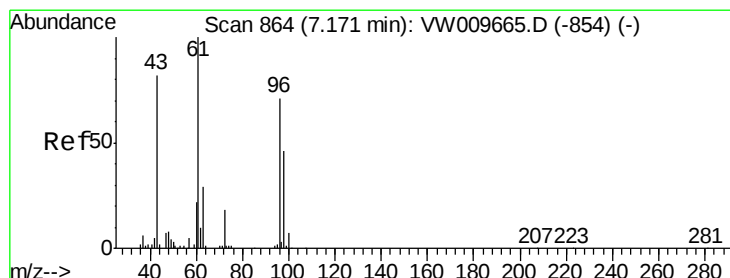
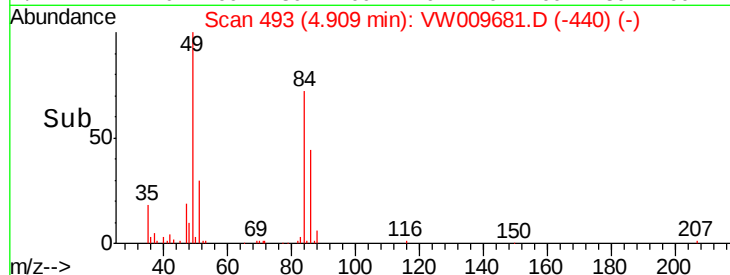
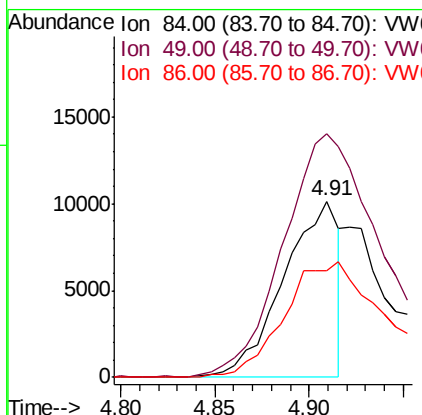
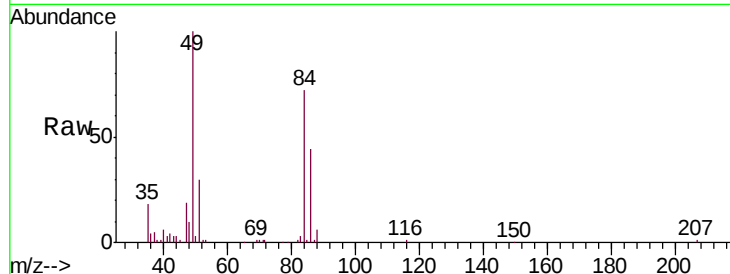




#16  
Methylene chloride  
Concen: 2.416 ug/L  
RT: 4.91 min Scan# 493  
Delta R.T. -0.01 min  
Lab File: VW009681.D  
Acq: 04 Apr 2019 03:11

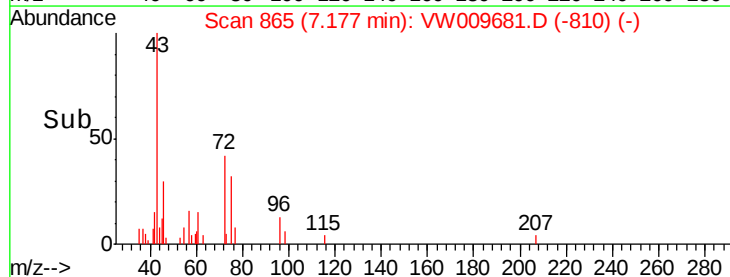
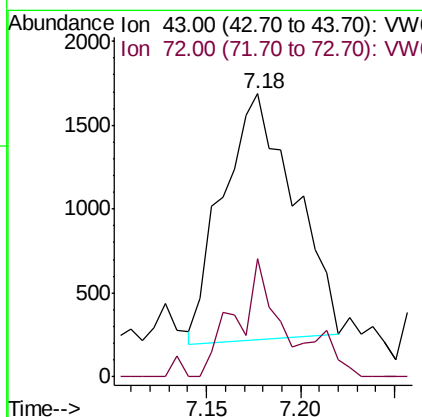
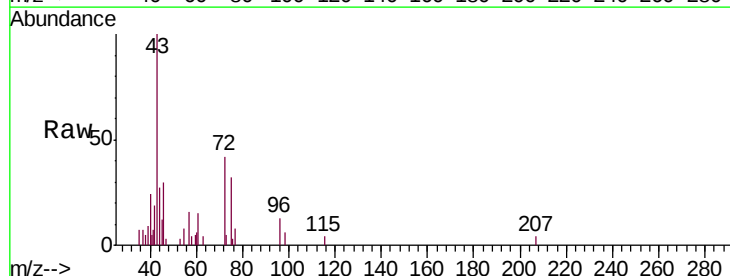
Instrument :  
MSVOA\_W  
ClientSampled :  
BF650

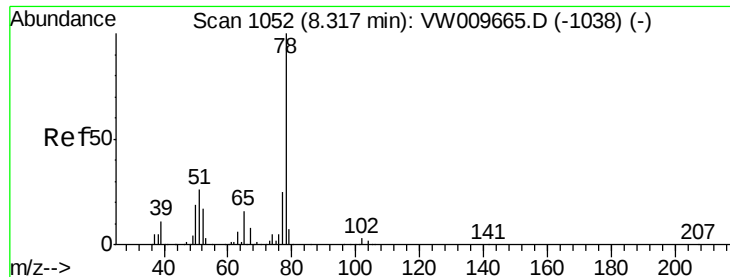
Tgt Ion: 84 Resp: 20809  
Ion Ratio Lower Upper  
84 100  
49 138.2 98.3 182.5  
86 60.4 46.4 86.2



#21  
2-Butanone  
Concen: 1.366 ug/L  
RT: 7.18 min Scan# 865  
Delta R.T. 0.01 min  
Lab File: VW009681.D  
Acq: 04 Apr 2019 03:11

Tgt Ion: 43 Resp: 3862  
Ion Ratio Lower Upper  
43 100  
72 15.4 12.0 36.1





#34

Benzene

Concen: 1.078 ug/L

RT: 8.32 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VW009681.D

Acq: 04 Apr 2019 03:11

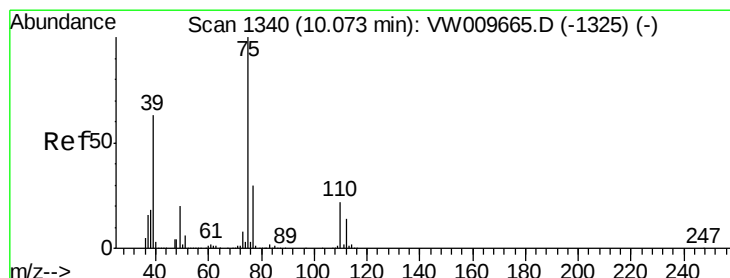
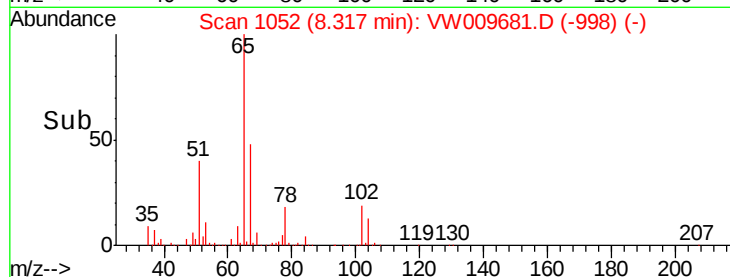
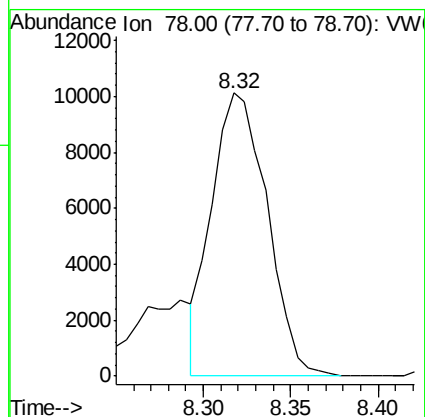
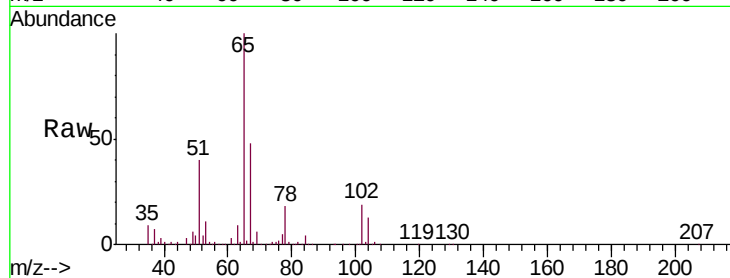
Instrument :

MSVOA\_W

ClientSampleId :

BF650

Tgt Ion: 78 Resp: 22294



#42

cis-1,3-Dichloropropene

Concen: 0.352 ug/L

RT: 10.03 min Scan# 1333

Delta R.T. -0.04 min

Lab File: VW009681.D

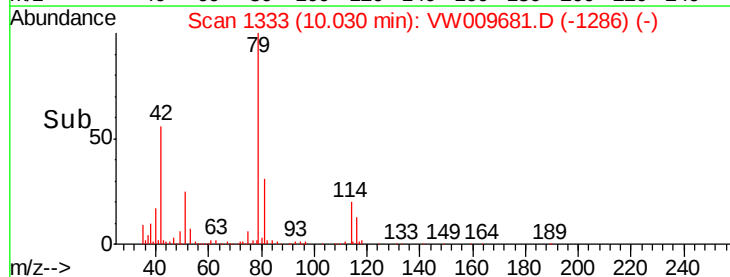
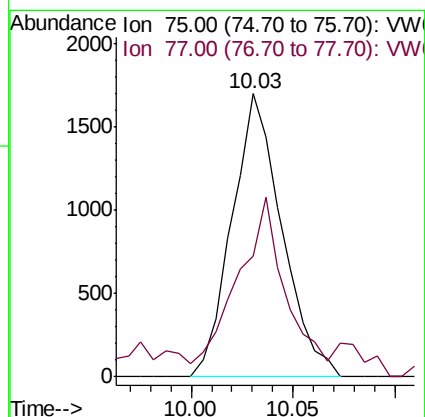
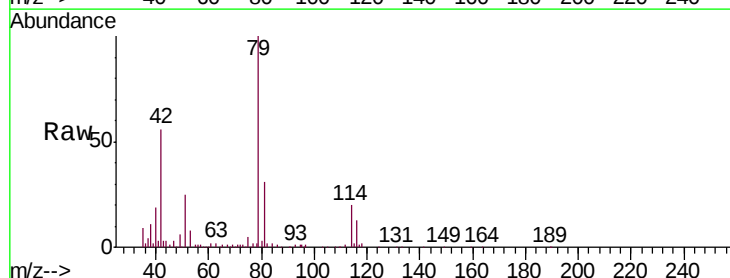
Acq: 04 Apr 2019 03:11

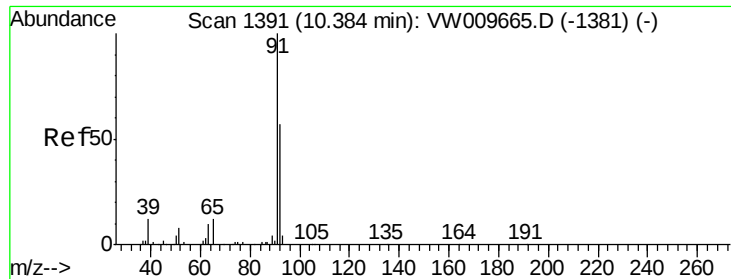
Tgt Ion: 75 Resp: 2889

Ion Ratio Lower Upper

75 100

77 42.7 21.0 39.0#





#44

Toluene

Concen: 3.644 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW009681.D

Acq: 04 Apr 2019 03:11

Instrument :

MSVOA\_W

ClientSampled :

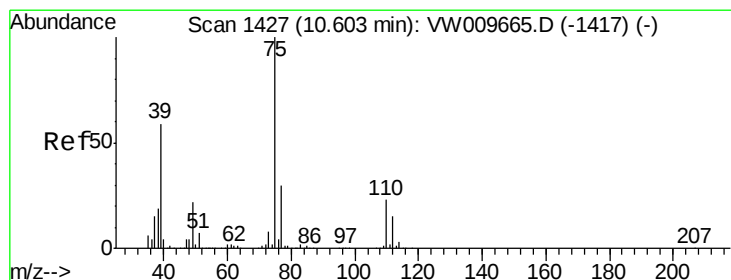
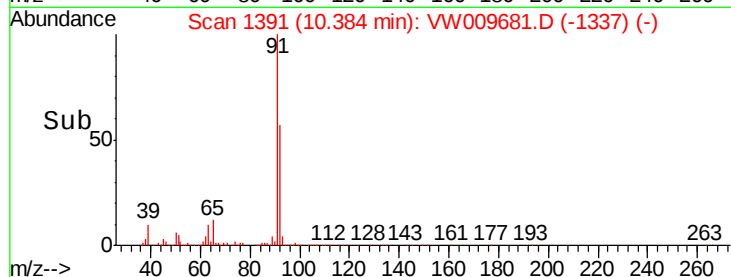
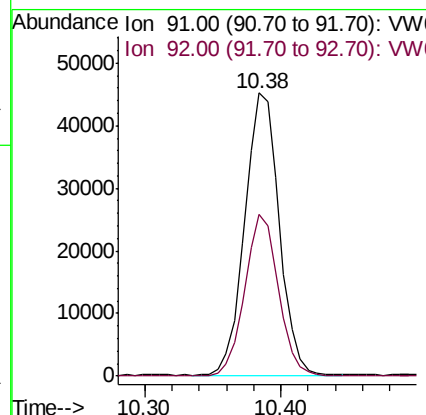
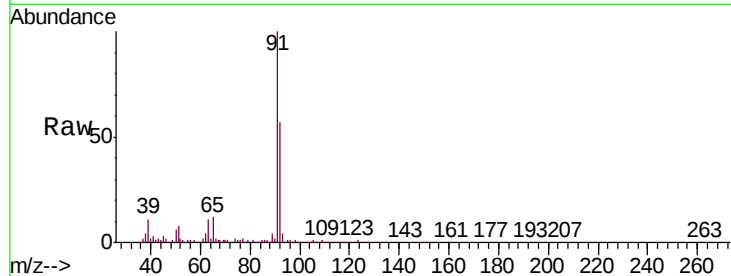
BF650

Tgt Ion: 91 Resp: 79848

Ion Ratio Lower Upper

91 100

92 57.0 40.5 75.1



#45

trans-1,3-Dichloropropene

Concen: 0.333 ug/L

RT: 10.58 min Scan# 1423

Delta R.T. -0.02 min

Lab File: VW009681.D

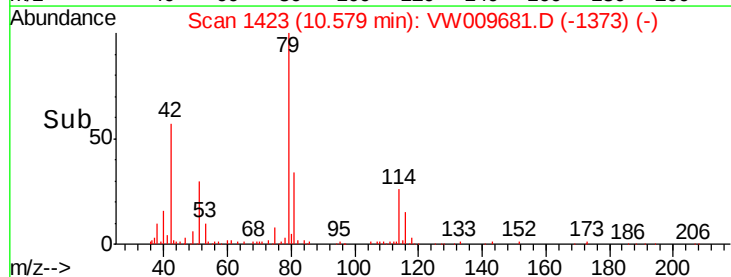
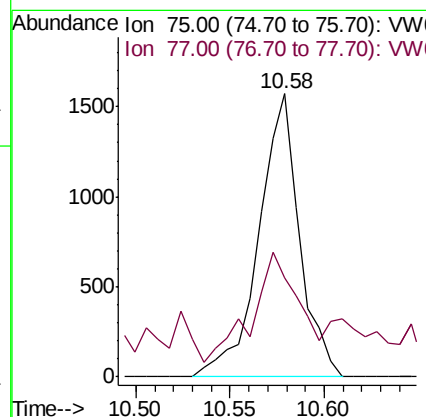
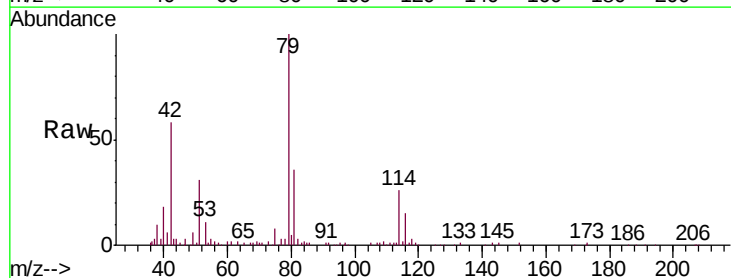
Acq: 04 Apr 2019 03:11

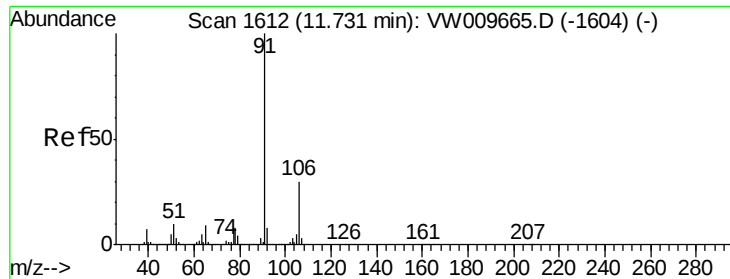
Tgt Ion: 75 Resp: 2352

Ion Ratio Lower Upper

75 100

77 34.9 21.1 39.3





#53

Ethylbenzene

Concen: 4.477 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW009681.D

Acq: 04 Apr 2019 03:11

Instrument :

MSVOA\_W

ClientSampleId :

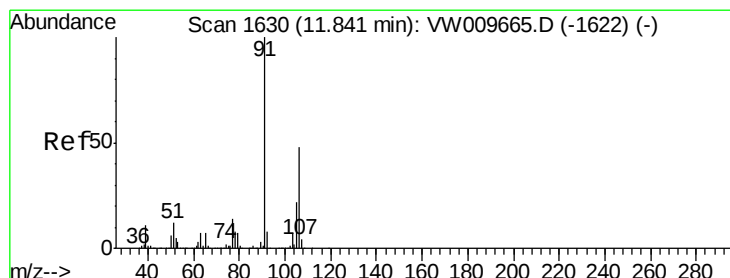
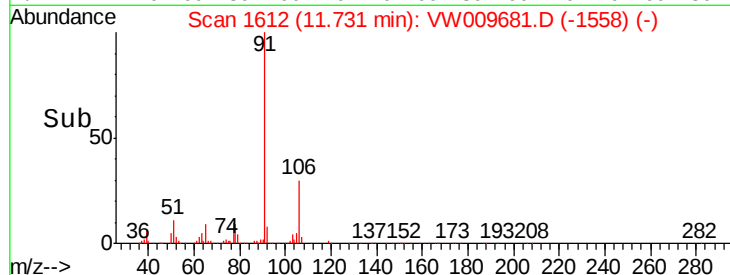
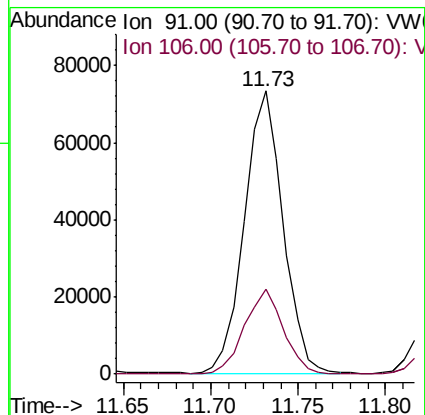
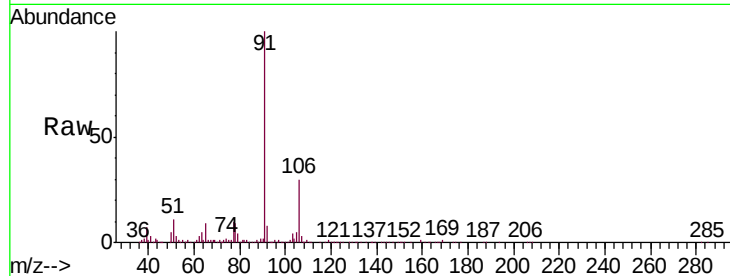
BF650

Tgt Ion: 91 Resp: 111749

Ion Ratio Lower Upper

91 100

106 30.2 21.5 39.9



#54

m,p-Xylene

Concen: 2.783 ug/L

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW009681.D

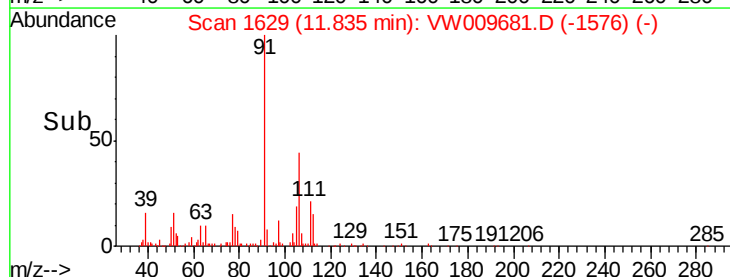
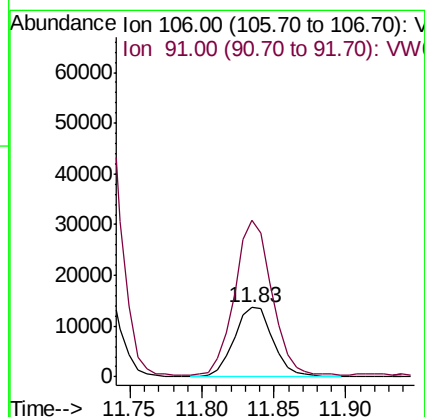
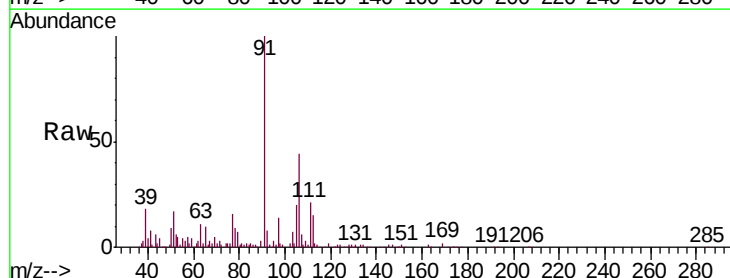
Acq: 04 Apr 2019 03:11

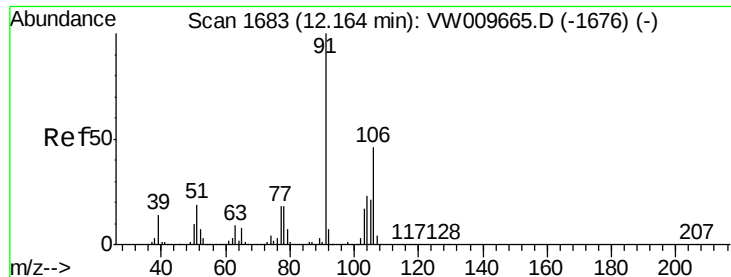
Tgt Ion: 106 Resp: 25697

Ion Ratio Lower Upper

106 100

91 226.1 145.3 269.9

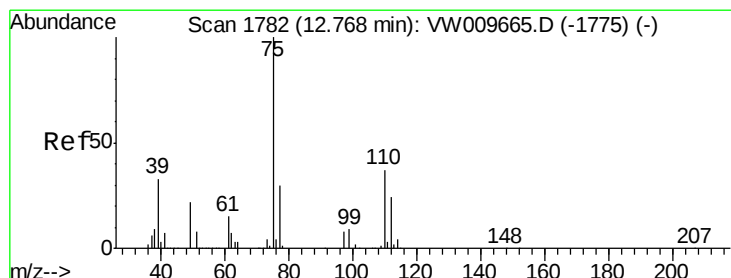
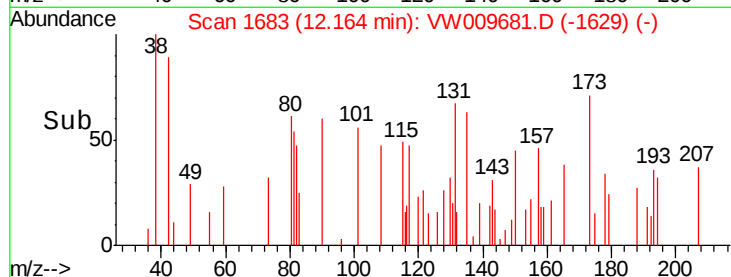
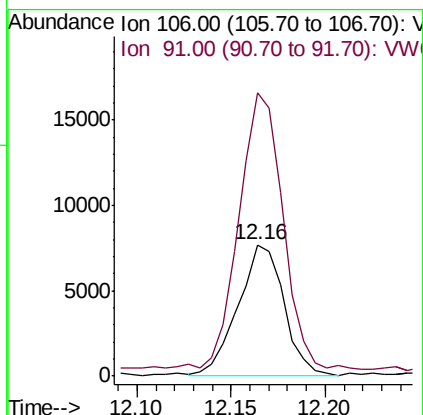
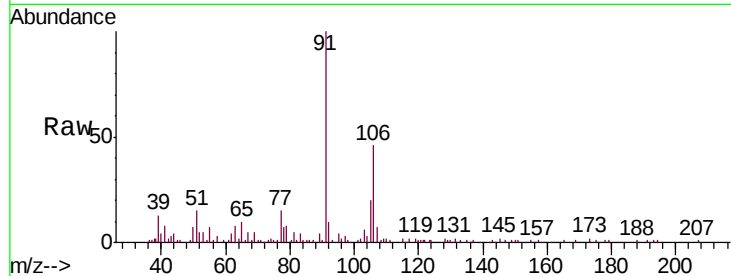




#55  
o-xylene  
Concen: 1.485 ug/L  
RT: 12.16 min Scan# 1683  
Delta R.T. 0.00 min  
Lab File: VW009681.D  
Acq: 04 Apr 2019 03:11

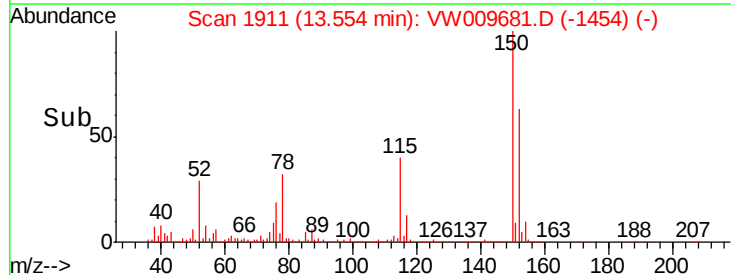
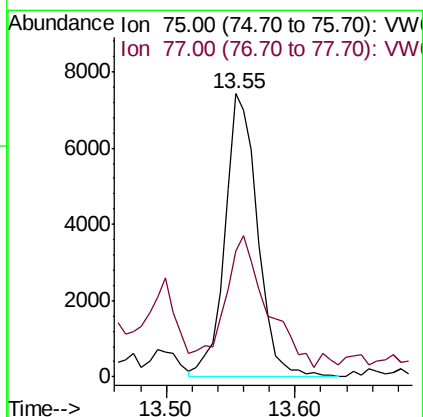
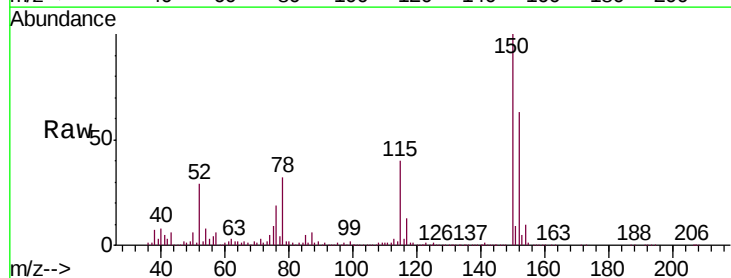
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MSVOA\_W  
ClientSampled :  
BF650

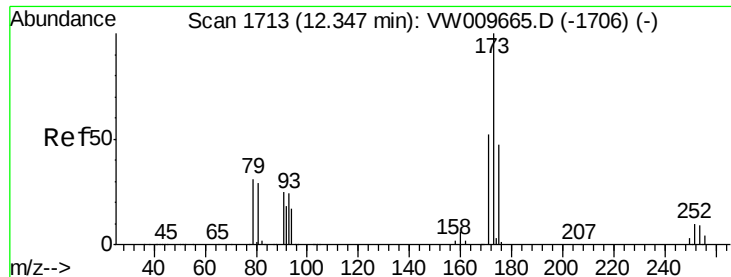
Tgt Ion: 106 Resp: 13057  
Ion Ratio Lower Upper  
106 100  
91 215.4 153.9 285.7



#59  
1,2,3-Trichloropropane  
Concen: 3.298 ug/L  
RT: 13.55 min Scan# 1911  
Delta R.T. 0.79 min  
Lab File: VW009681.D  
Acq: 04 Apr 2019 03:11

Tgt Ion: 75 Resp: 13118  
Ion Ratio Lower Upper  
75 100  
77 36.4 26.2 39.2





#62

Bromoform

Concen: 0.247 ug/L

RT: 12.34 min Scan# 1712

Delta R.T. -0.01 min

Lab File: VW009681.D

Acq: 04 Apr 2019 03:11

Instrument :

MSVOA\_W

ClientSampleId :

BF650

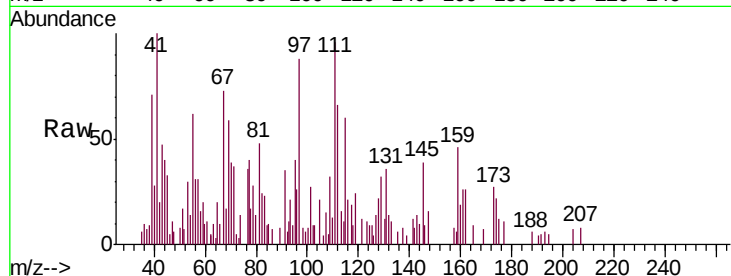
Tgt Ion:173 Resp: 406

Ion Ratio Lower Upper

173 100

175 21.9 39.4 59.2#

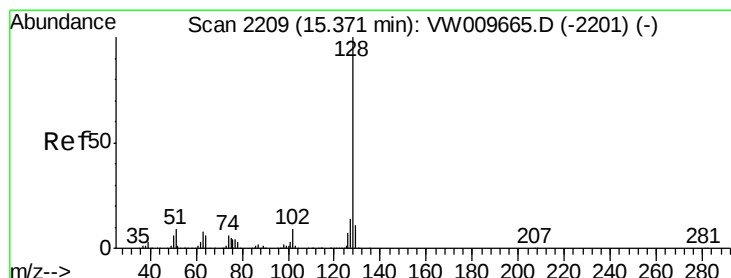
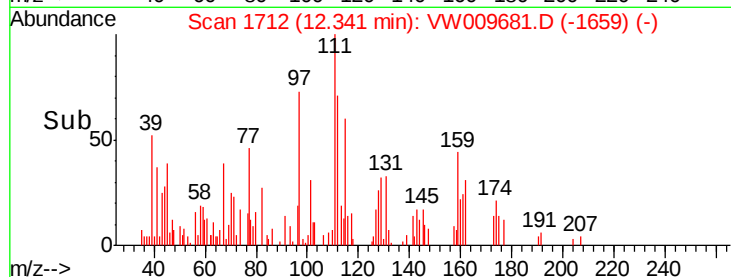
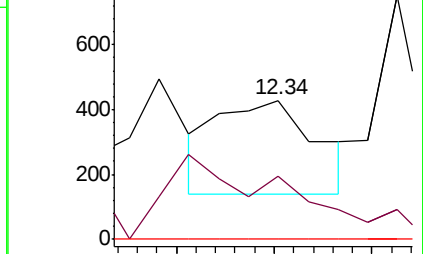
254 0.0 8.5 12.7#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#69

Naphthalene

Concen: 0.952 ug/L

RT: 15.36 min Scan# 2208

Delta R.T. -0.01 min

Lab File: VW009681.D

Acq: 04 Apr 2019 03:11

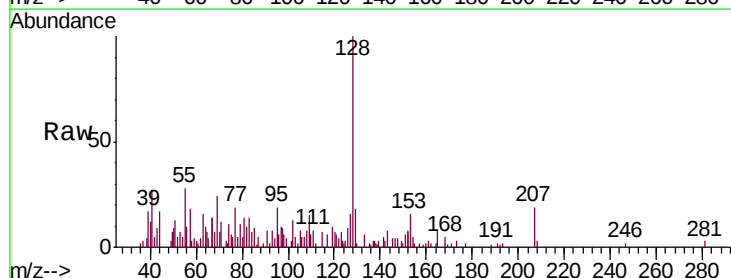
Tgt Ion:128 Resp: 6595

Ion Ratio Lower Upper

128 100

129 12.1 8.5 12.7

127 20.2 10.8 16.2#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

