

Data Path : Z:\HPCHEM1\BNA M\DATA\BM073016\  
 Data File : BM006768.D  
 Acq On : 30 Jul 2016 11:52  
 Operator : UM/SJ  
 Sample : H4192-06  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Aug 01 04:25:01 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM072016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sat Jul 30 01:37:26 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.60  | 152  | 192309   | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.38 | 136  | 830244   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.26 | 164  | 467567   | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.01 | 188  | 1059057  | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.21 | 240  | 1245723  | 20.00 | ng/ul | 0.00     |
| 34) Perylene-d12          | 23.41 | 264  | 1303074  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.13  | 96  | 5407   | 1.14  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 6.79  | 99  | 168810 | 10.32 | ng/ul | 0.00 |
| 4) Bis-(2-Chloroethyl)ether-d  | 6.95  | 67  | 140911 | 13.90 | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.14  | 132 | 153845 | 11.77 | ng/ul | 0.00 |
| 6) 4-Methylphenol-d8           | 8.32  | 113 | 69080  | 5.44  | ng/ul | 0.00 |
| 8) Nitrobenzene-d5             | 8.76  | 128 | 80797  | 12.86 | ng/ul | 0.00 |
| 9) 2-Nitrophenol-d4            | 9.47  | 143 | 79720  | 11.93 | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 10.02 | 165 | 144034 | 11.40 | ng/ul | 0.00 |
| 12) 4-Chloroaniline-d4         | 10.53 | 131 | 97557  | 7.01  | ng/ul | 0.00 |
| 16) Dimethylphthalate-d6       | 13.67 | 166 | 526092 | 14.35 | ng/ul | 0.00 |
| 17) Acenaphthylene-d8          | 13.94 | 160 | 664810 | 14.21 | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 14.50 | 143 | 30503  | 4.79  | ng/ul | 0.01 |
| 21) Fluorene-d10               | 15.26 | 176 | 477263 | 14.56 | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.40 | 200 | 23785  | 4.33  | ng/ul | 0.00 |
| 26) Anthracene-d10             | 17.11 | 188 | 716559 | 14.25 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.41 | 212 | 829609 | 14.62 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 23.27 | 264 | 804621 | 13.42 | ng/ul | 0.00 |

## Target Compounds

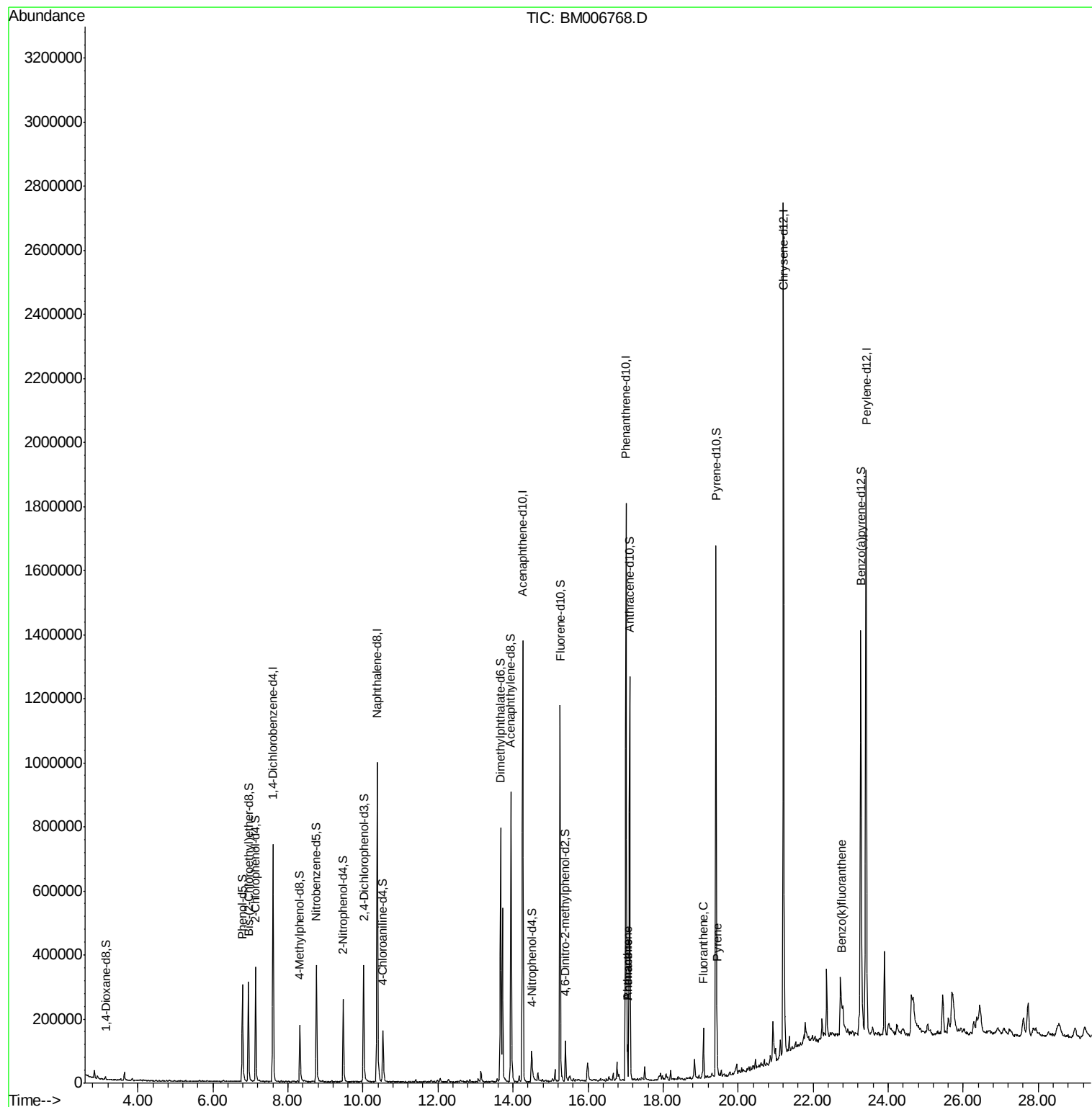
|                          |       |     |       |      |        | Ovalue |
|--------------------------|-------|-----|-------|------|--------|--------|
| 25) Phenanthrene         | 17.05 | 178 | 63784 | 1.07 | ng/ul  | 98     |
| 27) Anthracene           | 17.05 | 178 | 63784 | 1.04 | ng/ul  | 97     |
| 28) Fluoranthene         | 19.07 | 202 | 88669 | 1.27 | ng/ul  | 96     |
| 31) Pyrene               | 19.44 | 202 | 76166 | 1.01 | ng/ul# | 95     |
| 36) Benzo(k)fluoranthene | 22.76 | 252 | 75890 | 1.00 | ng/ul  | 97     |

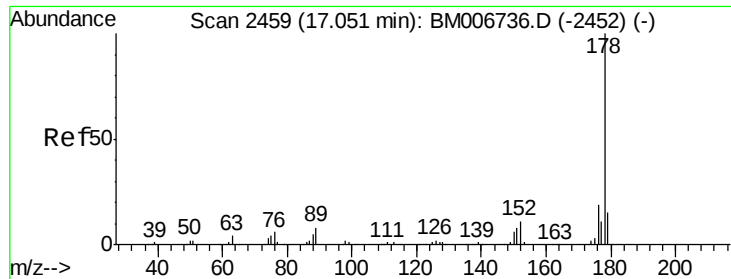
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#25

Phenanthrene

Concen: 1.07 ng/ul

RT: 17.05 min Scan# 2459

Delta R.T. -0.00 min

Lab File: BM006768.D

Acq: 30 Jul 2016 11:52

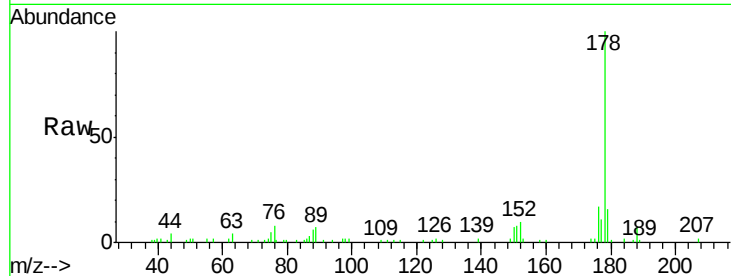
Instrument :

BNA\_M

ClientSampleId :

Tot Ion:178 Resp: 63784

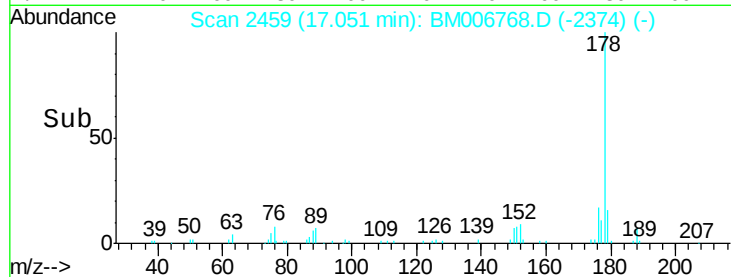
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.5  | 11.8  | 17.8  |
| 176 | 17.4  | 14.8  | 22.2  |



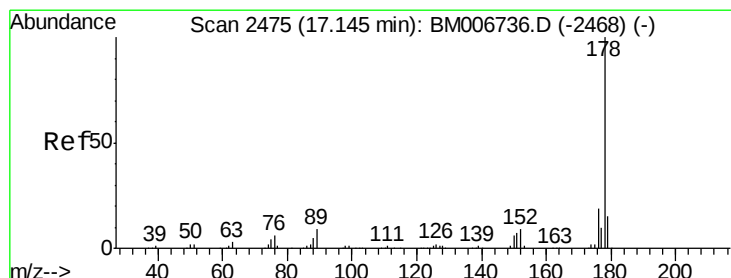
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



Time-->



#27

Anthracene

Concen: 1.04 ng/ul

RT: 17.05 min Scan# 2459

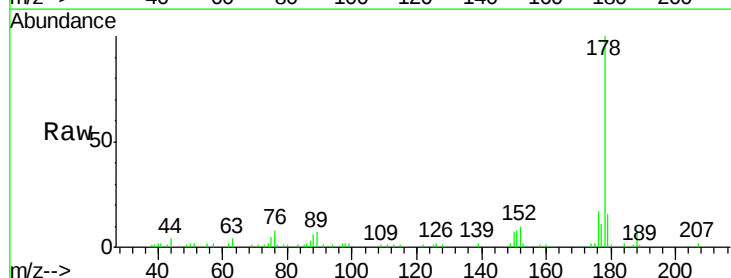
Delta R.T. -0.09 min

Lab File: BM006768.D

Acq: 30 Jul 2016 11:52

Tgt Ion:178 Resp: 63784

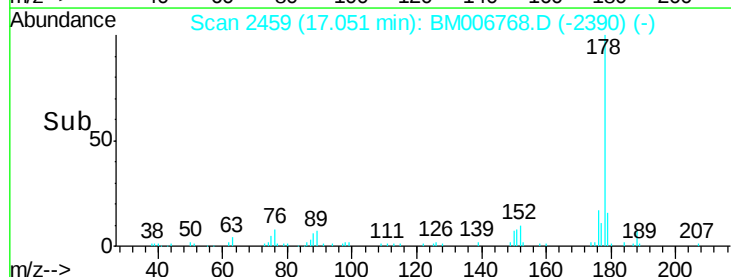
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.5  | 12.9  | 19.3  |
| 176 | 17.4  | 15.6  | 23.4  |



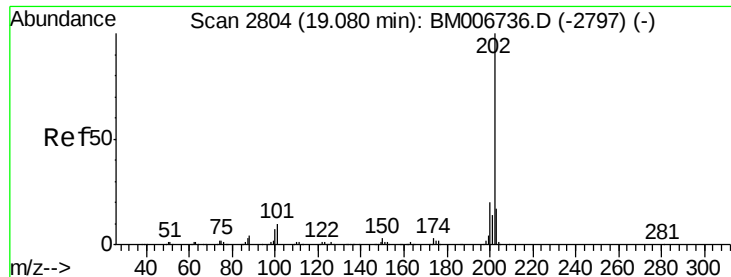
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



Time-->



#28

Fluoranthene

Concen: 1.27 ng/ul

RT: 19.07 min Scan# 2803

Delta R.T. -0.01 min

Lab File: BM006768.D

Acq: 30 Jul 2016 11:52

Instrument :

BNA\_M

ClientSampleId :

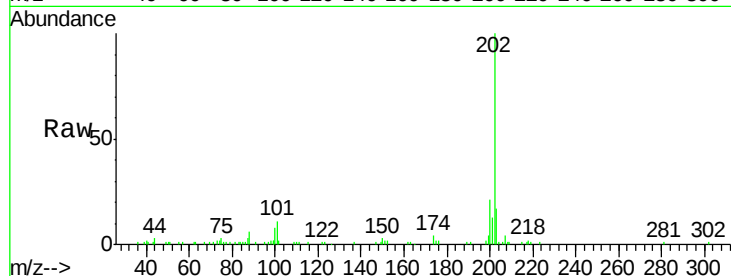
Tot Ion:202 Resp: 88669

Ion Ratio Lower Upper

202 100

101 13.0 8.9 13.3

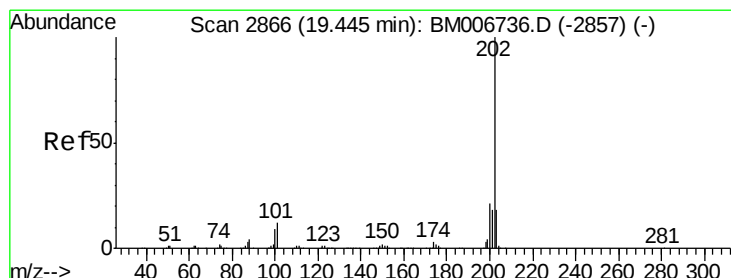
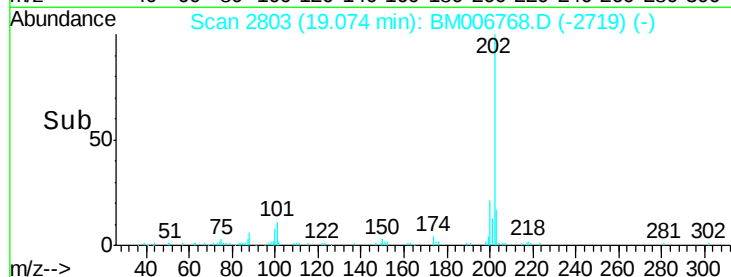
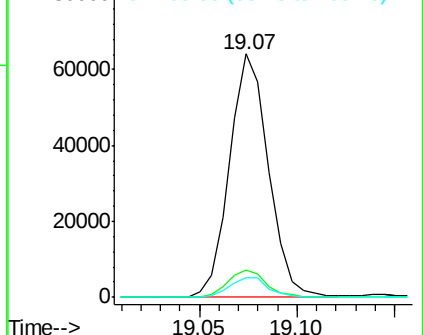
100 7.9 7.0 10.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#31

Pyrene

Concen: 1.01 ng/ul

RT: 19.44 min Scan# 2865

Delta R.T. -0.01 min

Lab File: BM006768.D

Acq: 30 Jul 2016 11:52

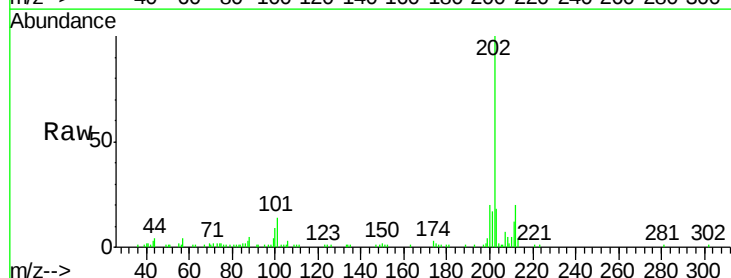
Tgt Ion:202 Resp: 76166

Ion Ratio Lower Upper

202 100

101 13.6 9.8 14.8

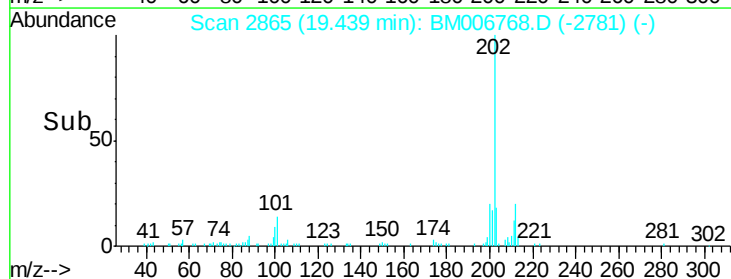
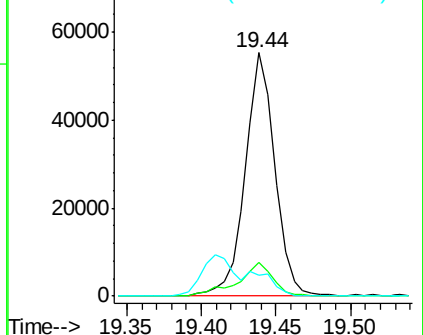
100 8.8 9.3 13.9#

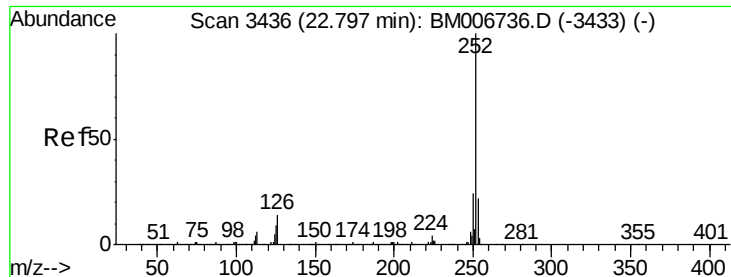


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#36  
 Benzo(k)fluoranthene  
 Concen: 1.00 ng/ul  
 RT: 22.76 min Scan# 3429  
 Delta R.T. -0.04 min  
 Lab File: BM006768.D  
 Acq: 30 Jul 2016 11:52

Instrument :  
 BNA\_M  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.9  | 17.8  | 26.8  |
| 125     | 9.2   | 7.7   | 11.5  |

