

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM111115\  
 Data File : BM003094.D  
 Acq On : 11 Nov 2015 20:36  
 Operator : UM/IZ  
 Sample : G4322-08  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4HR9

Quant Time: Nov 13 11:30:09 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM103015.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Nov 13 11:02:42 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.75  | 152  | 121445   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.55 | 136  | 571792   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.40 | 164  | 337865   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.14 | 188  | 724470   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.33 | 240  | 593485   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.60 | 264  | 555157   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.22  | 96  | 5348   | 2.08  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.91  | 99  | 105057 | 10.94 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.09  | 67  | 67046  | 11.94 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.28  | 132 | 94891  | 11.66 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.45  | 113 | 90233  | 11.66 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.90  | 128 | 46361  | 13.30 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.63  | 143 | 45355  | 12.84 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.16 | 165 | 87603  | 11.06 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.67 | 131 | 128687 | 12.55 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.80 | 166 | 323484 | 12.73 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.09 | 160 | 262749 | 8.16  | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.58 | 143 | 21386  | 4.99  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.39 | 176 | 166436 | 7.57  | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.50 | 200 | 12686  | 3.78  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.24 | 188 | 226470 | 7.05  | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.54 | 212 | 185967 | 6.37  | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.45 | 264 | 131337 | 4.98  | ng/ul | 0.00 |

## Target Compounds

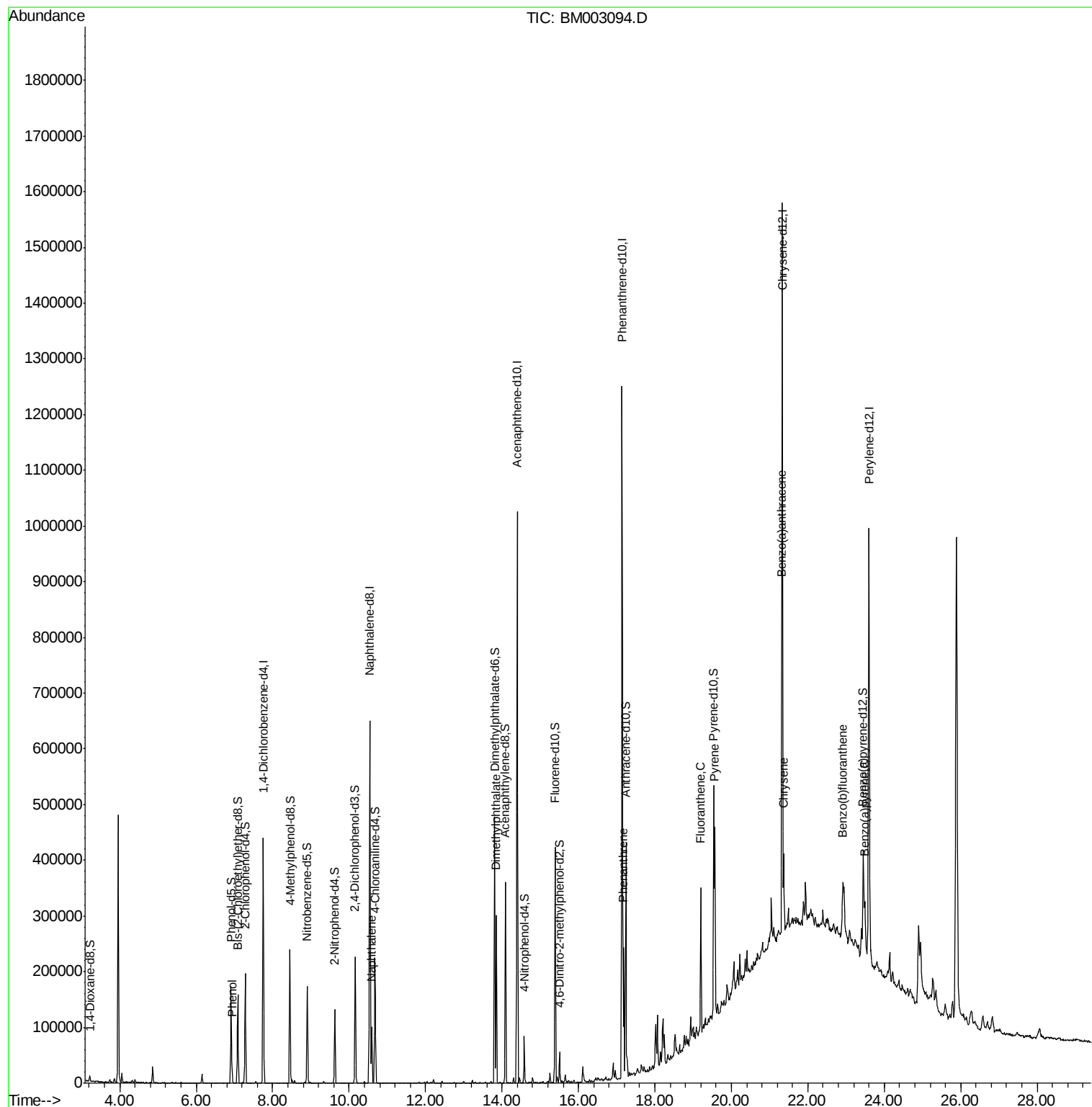
|                          |       |     |        |      |        | Qvalue |
|--------------------------|-------|-----|--------|------|--------|--------|
| 6) Phenol                | 6.94  | 94  | 15074  | 1.53 | ng/ul  | 98     |
| 28) Naphthalene          | 10.59 | 128 | 86789  | 3.02 | ng/ul  | 98     |
| 45) Dimethylphthalate    | 13.85 | 163 | 193002 | 7.45 | ng/ul  | 100    |
| 70) Phenanthrene         | 17.18 | 178 | 142667 | 3.48 | ng/ul  | 99     |
| 77) Fluoranthene         | 19.20 | 202 | 150862 | 3.64 | ng/ul  | 95     |
| 80) Pyrene               | 19.57 | 202 | 212413 | 5.47 | ng/ul# | 93     |
| 83) Benzo(a)anthracene   | 21.32 | 228 | 74431  | 2.28 | ng/ul  | 94     |
| 85) Chrysene             | 21.37 | 228 | 73142  | 2.27 | ng/ul  | 95     |
| 88) Benzo(b)fluoranthene | 22.91 | 252 | 67031  | 2.10 | ng/ul# | 92     |
| 91) Benzo(a)pyrene       | 23.50 | 252 | 55923  | 1.85 | ng/ul  | 97     |

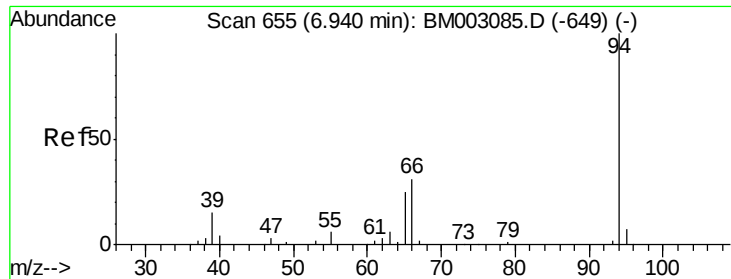
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM111115\  
Data File : BM003094.D  
Acq On : 11 Nov 2015 20:36  
Operator : UM/IZ  
Sample : G4322-08  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4HR9

Quant Time: Nov 13 11:30:09 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM103015.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Nov 13 11:02:42 2015  
Response via : Initial Calibration





#6

Phenol

Concen: 1.53 ng/ul

RT: 6.94 min Scan# 655

Delta R.T. -0.00 min

Lab File: BM003094.D

Acq: 11 Nov 2015 20:36

Instrument :

BNA\_M

ClientSampleId :

A4HR9

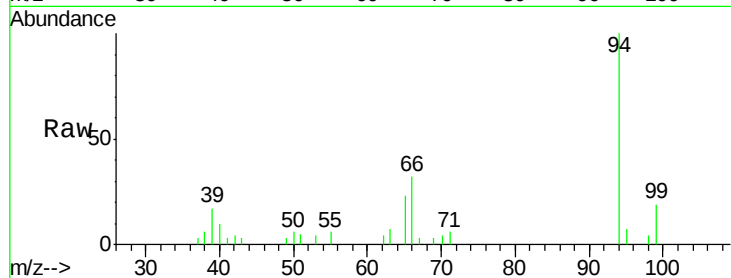
Tgt Ion: 94 Resp: 15074

Ion Ratio Lower Upper

94 100

65 22.7 18.7 28.1

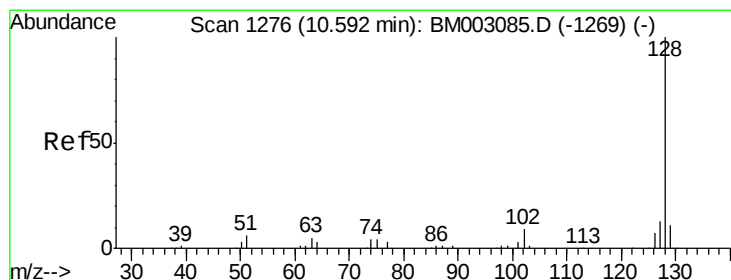
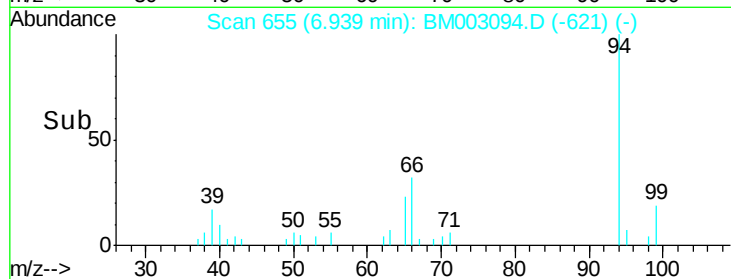
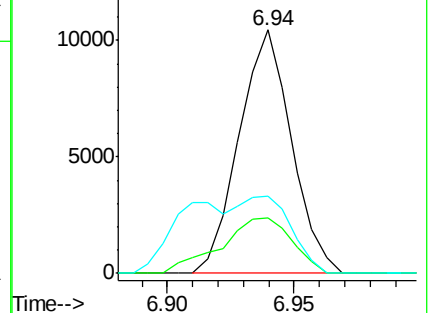
66 31.9 24.2 36.2



Abundance Ion 94.00 (93.70 to 94.70): BM003085.D (-649) (-)

Ion 65.00 (64.70 to 65.70): BM003085.D (-649) (-)

Ion 66.00 (65.70 to 66.70): BM003085.D (-649) (-)



#28

Naphthalene

Concen: 3.02 ng/ul

RT: 10.59 min Scan# 1276

Delta R.T. -0.00 min

Lab File: BM003094.D

Acq: 11 Nov 2015 20:36

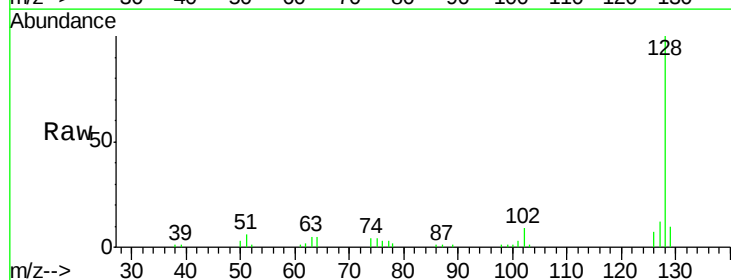
Tgt Ion: 128 Resp: 86789

Ion Ratio Lower Upper

128 100

129 10.1 8.8 13.2

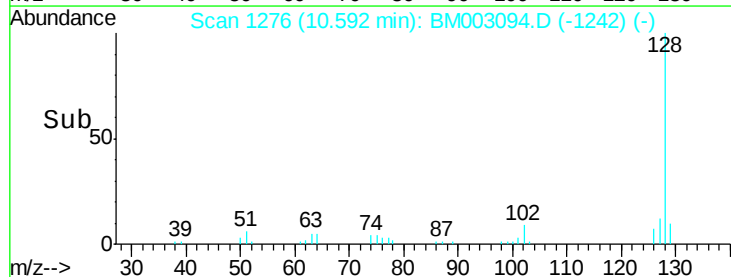
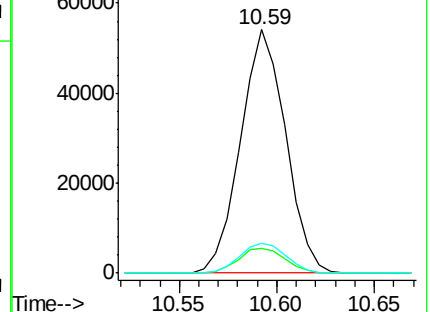
127 12.4 10.5 15.7

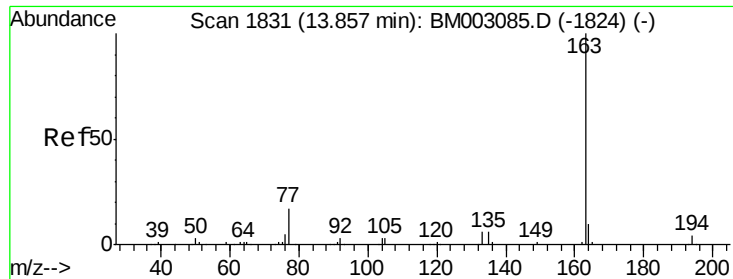


Abundance Ion 128.00 (127.70 to 128.70): BM003085.D (-1269) (-)

Ion 129.00 (128.70 to 129.70): BM003085.D (-1269) (-)

Ion 127.00 (126.70 to 127.70): BM003085.D (-1269) (-)

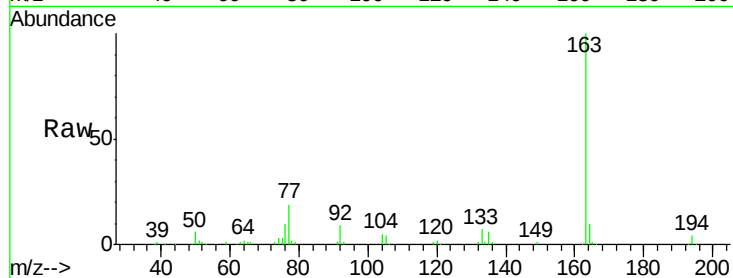




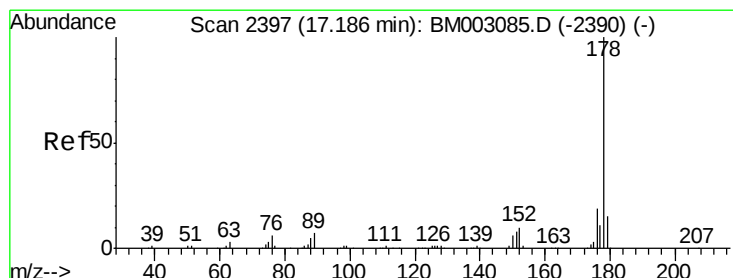
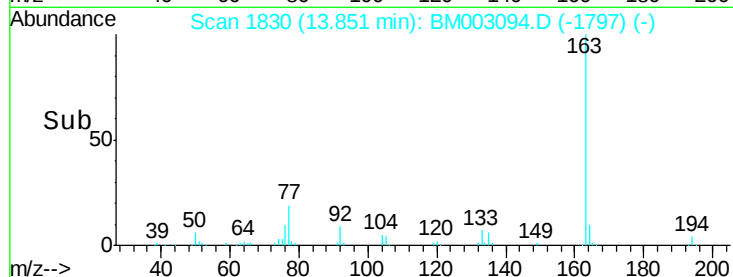
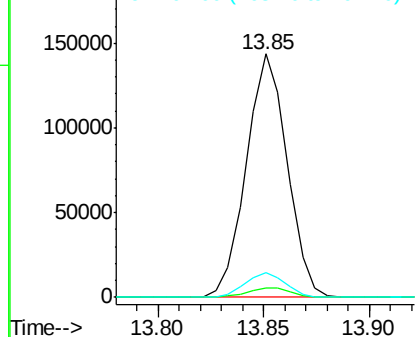
#45  
Dimethylphthalate  
Concen: 7.45 ng/ul  
RT: 13.85 min Scan# 1830  
Delta R.T. -0.01 min  
Lab File: BM003094.D  
Acq: 11 Nov 2015 20:36

Instrument :  
BNA\_M  
ClientSampleId :  
A4HR9

Tgt Ion:163 Resp: 193002  
Ion Ratio Lower Upper  
163 100  
194 4.0 3.2 4.8  
164 9.9 7.8 11.8

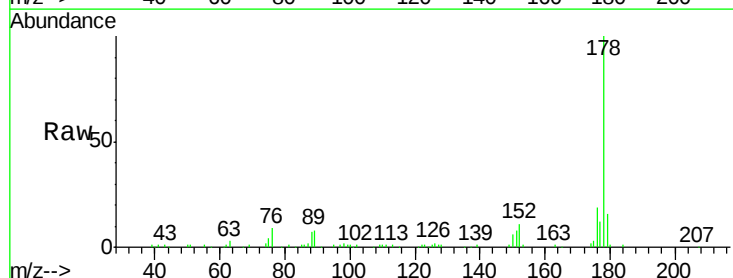


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

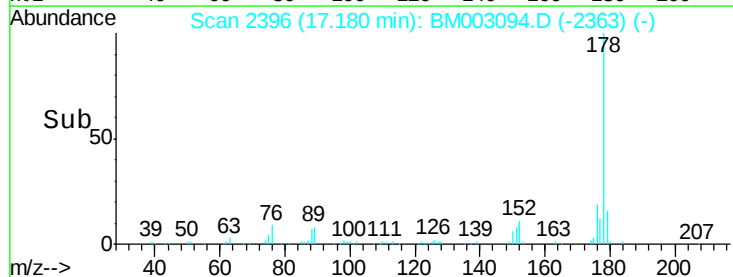
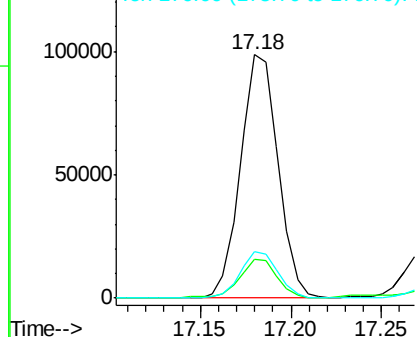


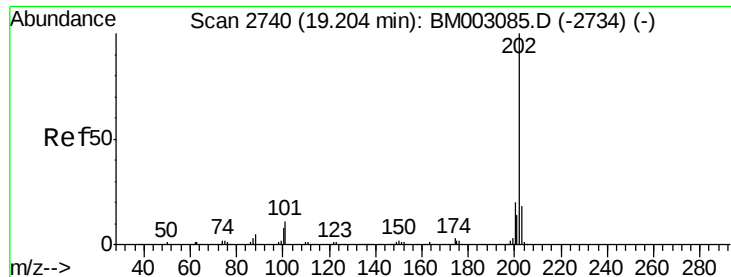
#70  
Phenanthrene  
Concen: 3.48 ng/ul  
RT: 17.18 min Scan# 2396  
Delta R.T. -0.01 min  
Lab File: BM003094.D  
Acq: 11 Nov 2015 20:36

Tgt Ion:178 Resp: 142667  
Ion Ratio Lower Upper  
178 100  
179 15.7 12.2 18.4  
176 19.0 14.7 22.1



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

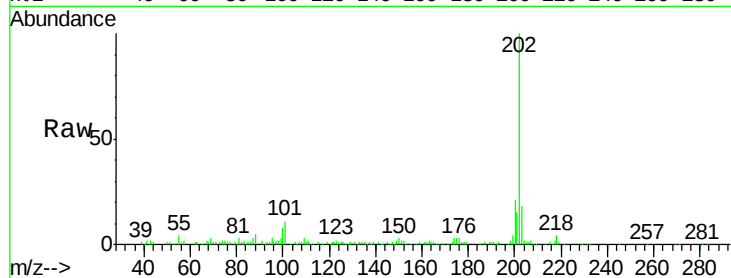




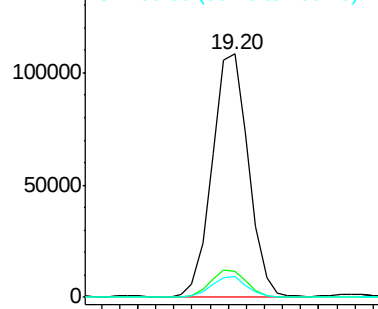
#77  
**Fluoranthene**  
 Concen: 3.64 ng/ul  
 RT: 19.20 min Scan# 2740  
 Delta R.T. -0.00 min  
 Lab File: BM003094.D  
 Acq: 11 Nov 2015 20:36

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4HR9

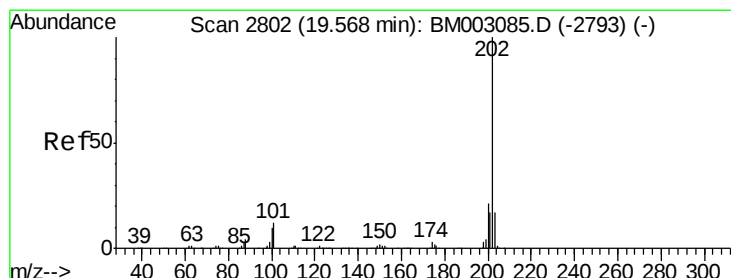
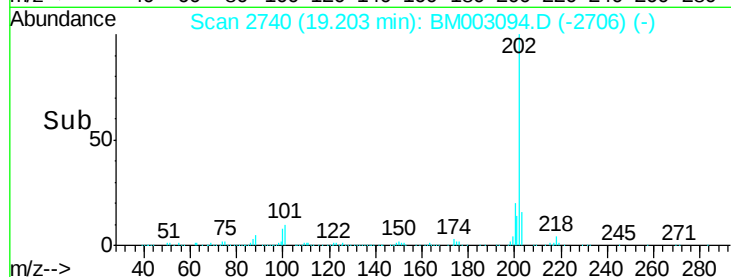
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.7  | 10.4  | 15.6  |
| 100     | 8.4   | 7.8   | 11.6  |



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

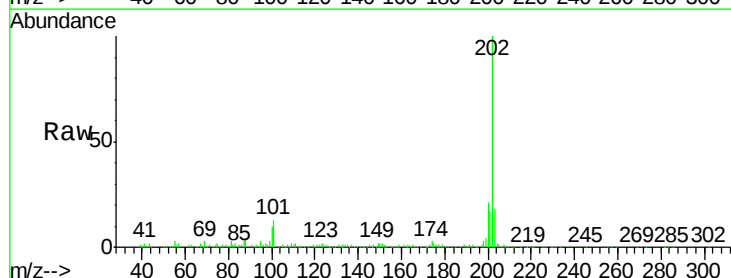


Time-->

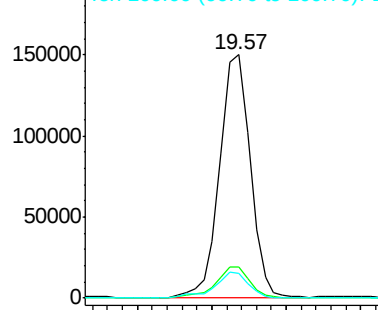


#80  
**Pyrene**  
 Concen: 5.47 ng/ul  
 RT: 19.57 min Scan# 2802  
 Delta R.T. -0.00 min  
 Lab File: BM003094.D  
 Acq: 11 Nov 2015 20:36

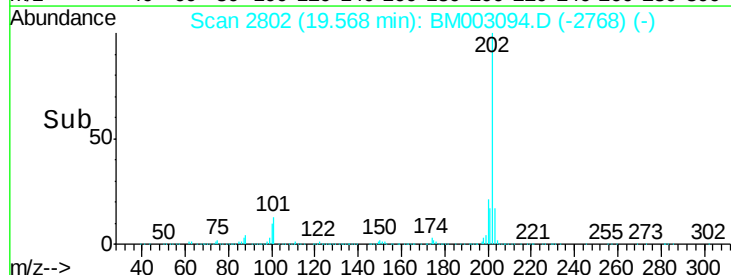
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.9  | 12.6  | 18.8  |
| 100     | 10.0  | 10.6  | 15.8# |

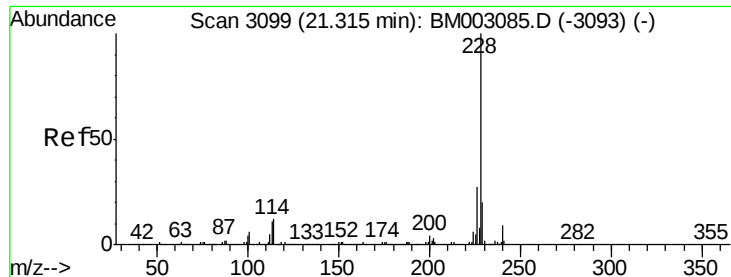


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B



Time-->

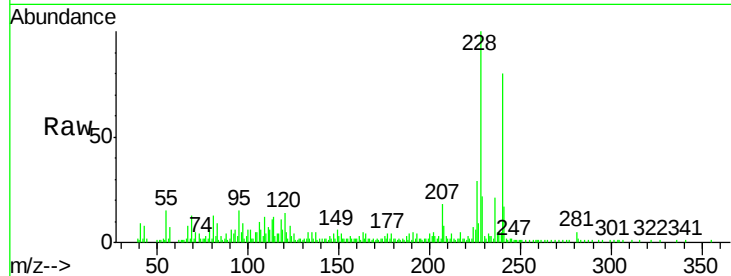




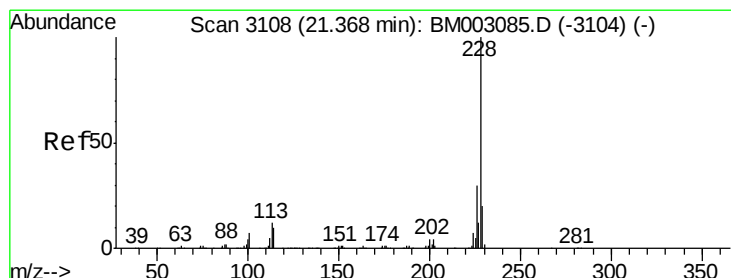
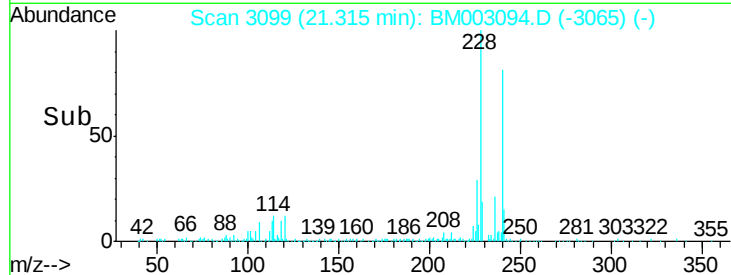
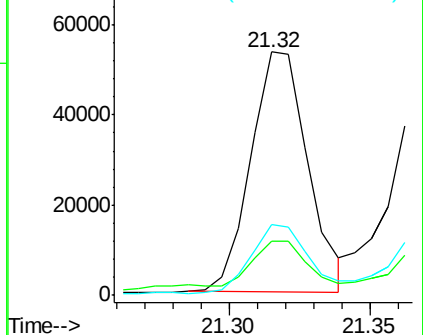
#83  
Benzo(a)anthracene  
Concen: 2.28 ng/ul  
RT: 21.32 min Scan# 3099  
Delta R.T. -0.00 min  
Lab File: BM003094.D  
Acq: 11 Nov 2015 20:36

Instrument :  
BNA\_M  
ClientSampleId :  
A4HR9

Tgt Ion:228 Resp: 74431  
Ion Ratio Lower Upper  
228 100  
229 22.0 15.6 23.4  
226 29.2 21.0 31.6

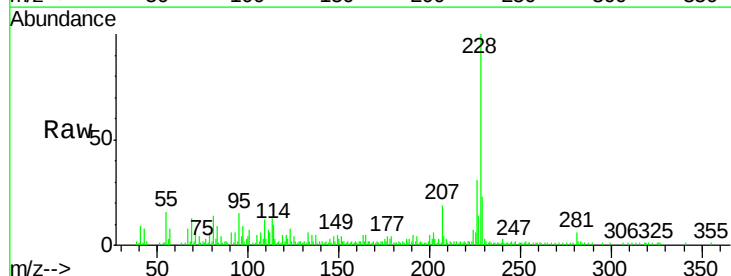


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E

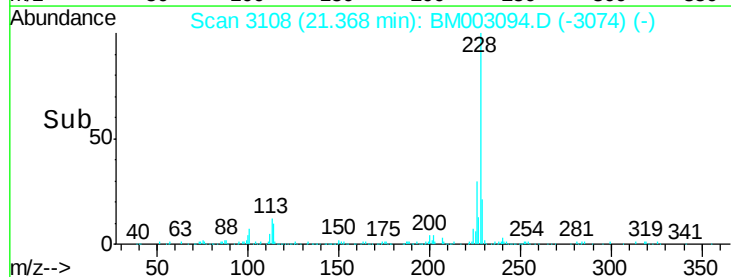
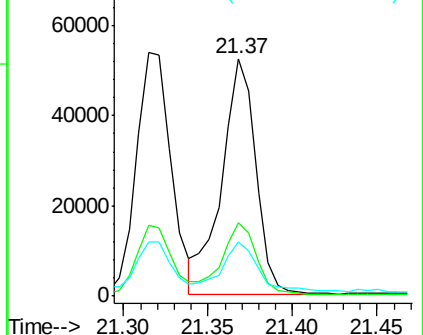


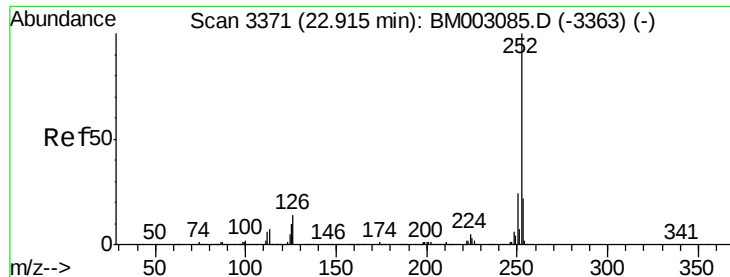
#85  
Chrysene  
Concen: 2.27 ng/ul  
RT: 21.37 min Scan# 3108  
Delta R.T. -0.00 min  
Lab File: BM003094.D  
Acq: 11 Nov 2015 20:36

Tgt Ion:228 Resp: 73142  
Ion Ratio Lower Upper  
228 100  
226 30.7 23.3 34.9  
229 23.0 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





#88

Benzo(b)fluoranthene

Concen: 2.10 ng/ul

RT: 22.91 min Scan# 3371

Delta R.T. -0.00 min

Lab File: BM003094.D

Acq: 11 Nov 2015 20:36

Instrument :

BNA\_M

ClientSampleId :

A4HR9

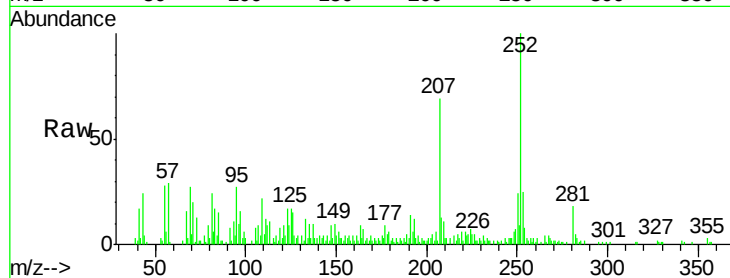
Tgt Ion:252 Resp: 67031

Ion Ratio Lower Upper

252 100

253 25.4 17.4 26.2

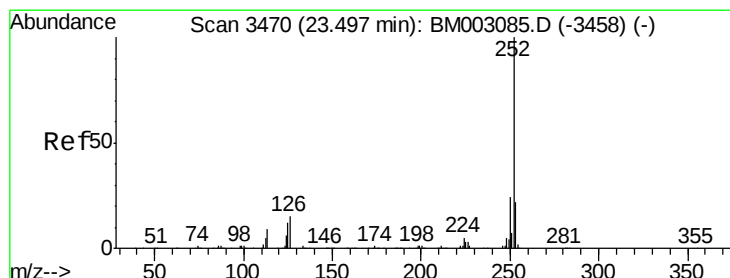
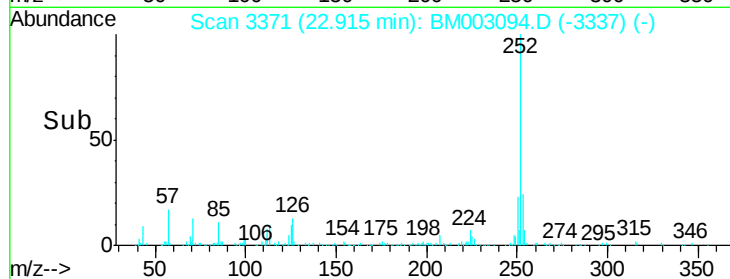
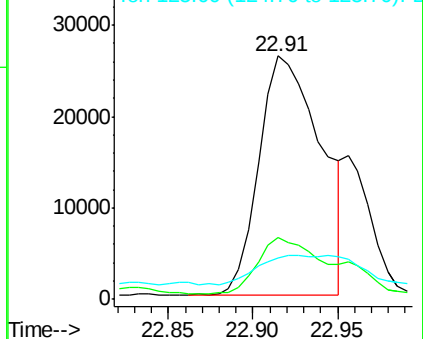
125 16.8 10.7 16.1#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(a)pyrene

Concen: 1.85 ng/ul

RT: 23.50 min Scan# 3470

Delta R.T. -0.00 min

Lab File: BM003094.D

Acq: 11 Nov 2015 20:36

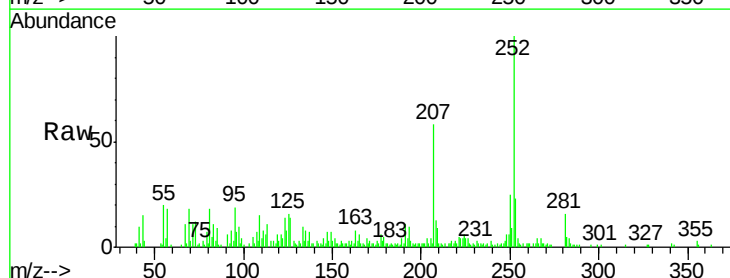
Tgt Ion:252 Resp: 55923

Ion Ratio Lower Upper

252 100

253 23.2 17.1 25.7

125 15.7 11.9 17.9



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

