

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\  
 Data File : BM002446.D  
 Acq On : 17 Aug 2015 11:04  
 Operator : UM/IZ  
 Sample : G3194-01  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Aug 18 02:06:00 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Aug 18 01:54:16 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.87  | 152  | 100557   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.75 | 136  | 464423   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.45 | 164  | 244206   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.16 | 188  | 487431   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 22.24 | 240  | 351499   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.91 | 264  | 306424   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 15.16 | 160  | 847393   | 33.94 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 16.42 | 176  | 570670   | 32.54 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 18.26 | 188  | 818614   | 34.82 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 20.47 | 212  | 734895   | 47.17 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.74 | 264  | 574156   | 35.67 | ng/ul | 0.00     |

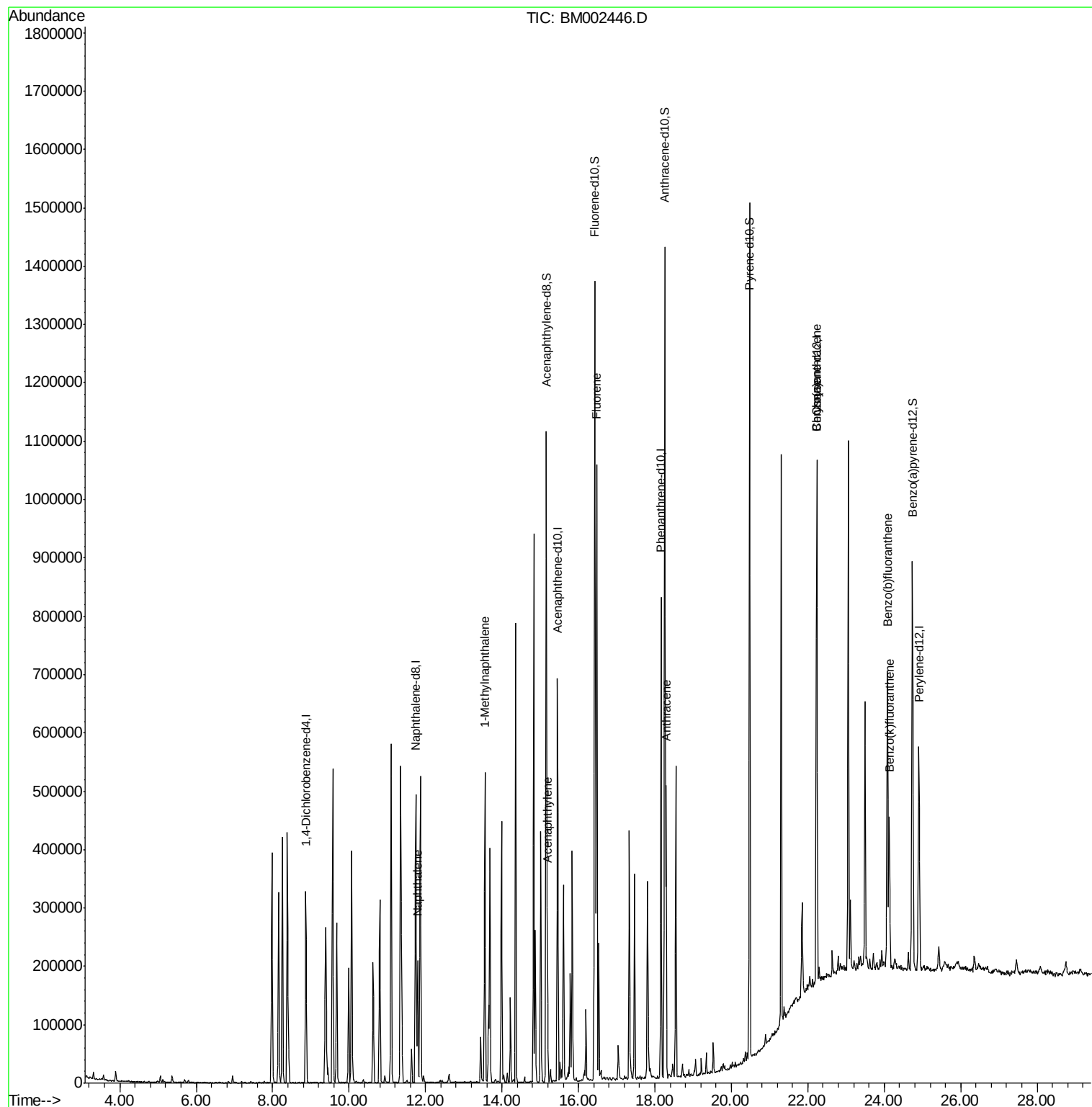
| Target Compounds         | R.T.  | QIon | Response | Conc  | Units | Ovalue |
|--------------------------|-------|------|----------|-------|-------|--------|
| 3) Naphthalene           | 11.79 | 128  | 192071   | 8.10  | ng/ul | 100    |
| 5) 1-Methylnaphthalene   | 13.55 | 142  | 257022   | 14.63 | ng/ul | 100    |
| 8) Acenaphthylene        | 15.19 | 152  | 189777   | 7.26  | ng/ul | 100    |
| 11) Fluorene             | 16.48 | 166  | 486900   | 24.69 | ng/ul | 99     |
| 15) Anthracene           | 18.29 | 178  | 306811   | 10.76 | ng/ul | 100    |
| 20) Benzo(a)anthracene   | 22.22 | 228  | 410750   | 19.54 | ng/ul | 100    |
| 21) Chrysene             | 22.22 | 228  | 410750   | 20.89 | ng/ul | 97     |
| 23) Benzo(b)fluoranthene | 24.09 | 252  | 428997   | 23.16 | ng/ul | 100    |
| 24) Benzo(k)fluoranthene | 24.13 | 252  | 186872   | 10.64 | ng/ul | 99     |

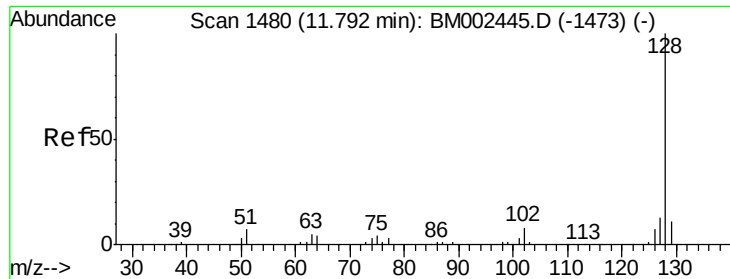
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081715\  
Data File : BM002446.D  
Acq On : 17 Aug 2015 11:04  
Operator : UM/IZ  
Sample : G3194-01  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampled :

Quant Time: Aug 18 02:06:00 2015  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM081415MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Aug 18 01:54:16 2015  
Response via : Initial Calibration





#3

Naphthalene

Concen: 8.10 ng/ul

RT: 11.79 min Scan# 1480

Delta R.T. 0.00 min

Lab File: BM002446.D

Acq: 17 Aug 2015 11:04

Instrument :

BNA\_M

ClientSampleId :

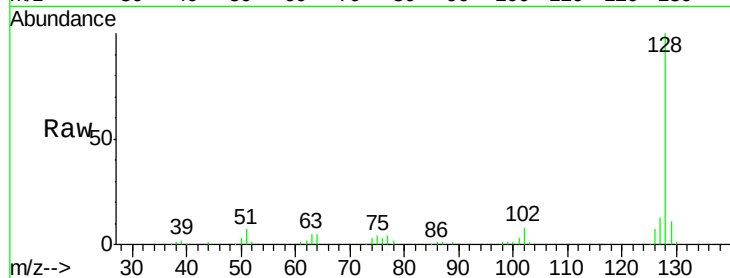
Tot Ion:128 Resp: 192071

Ion Ratio Lower Upper

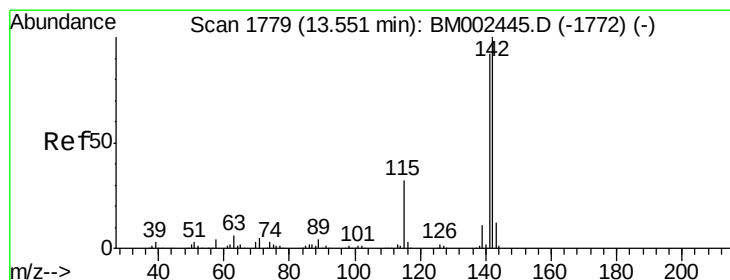
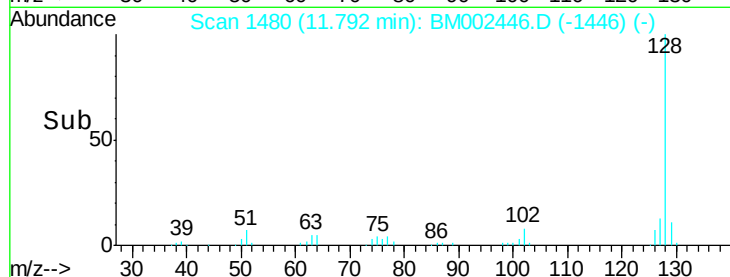
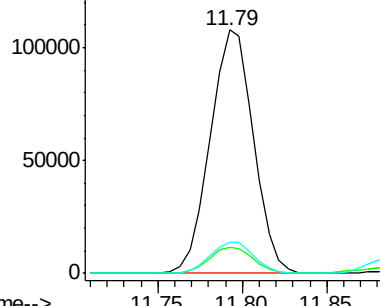
128 100

129 10.7 8.6 12.8

127 13.0 10.4 15.6



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



#5

1-Methylnaphthalene

Concen: 14.63 ng/ul

RT: 13.55 min Scan# 1779

Delta R.T. 0.00 min

Lab File: BM002446.D

Acq: 17 Aug 2015 11:04

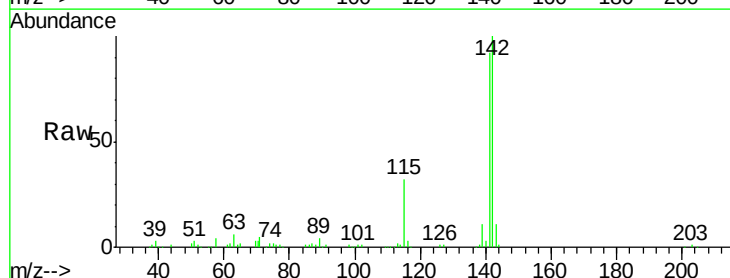
Tgt Ion:142 Resp: 257022

Ion Ratio Lower Upper

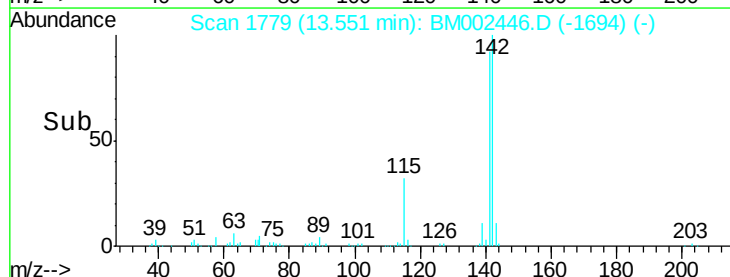
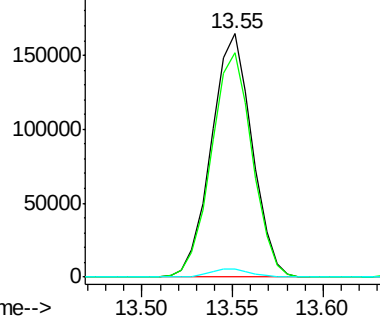
142 100

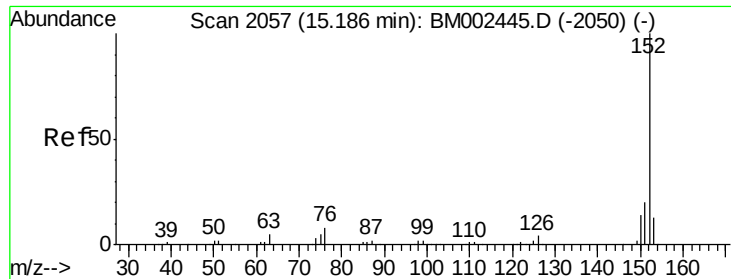
141 92.1 73.9 110.9

116 3.4 3.0 4.4



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E  
Ion 116.00 (115.70 to 116.70): E





#8

Acenaphthylene

Concen: 7.26 ng/ul

RT: 15.19 min Scan# 2057

Delta R.T. 0.00 min

Lab File: BM002446.D

Acq: 17 Aug 2015 11:04

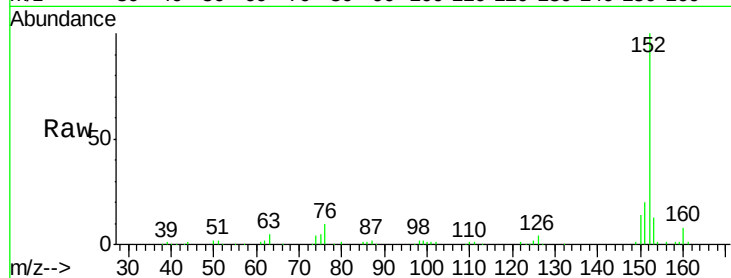
Instrument :

BNA\_M

ClientSampleId :

Tot Ion:152 Resp: 189777

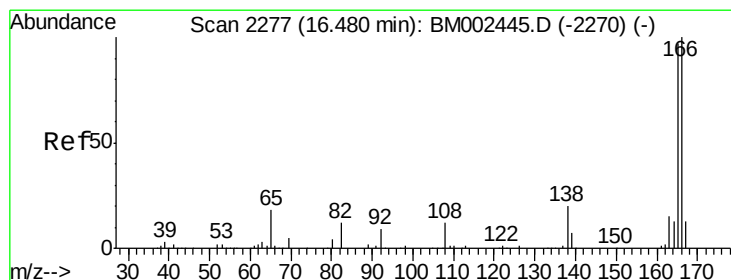
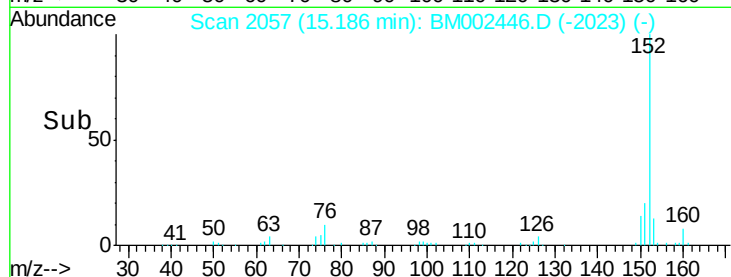
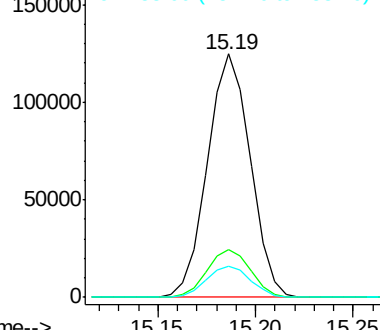
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 151 | 19.6  | 15.7  | 23.5  |
| 153 | 12.7  | 10.2  | 15.4  |



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#11

Fluorene

Concen: 24.69 ng/ul

RT: 16.48 min Scan# 2277

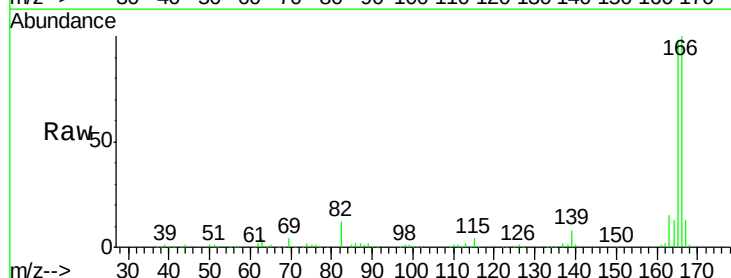
Delta R.T. 0.00 min

Lab File: BM002446.D

Acq: 17 Aug 2015 11:04

Tgt Ion:166 Resp: 486900

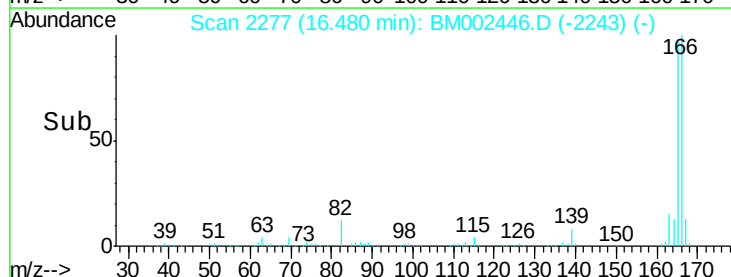
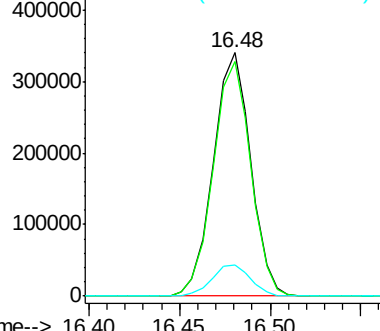
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100   |       |       |
| 165 | 96.6  | 77.6  | 116.4 |
| 167 | 12.9  | 10.7  | 16.1  |

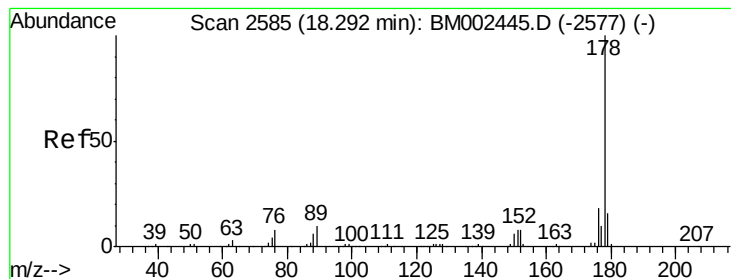


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#15

Anthracene

Concen: 10.76 ng/ul

RT: 18.29 min Scan# 2585

Delta R.T. 0.00 min

Lab File: BM002446.D

Acq: 17 Aug 2015 11:04

Instrument :

BNA\_M

ClientSampled :

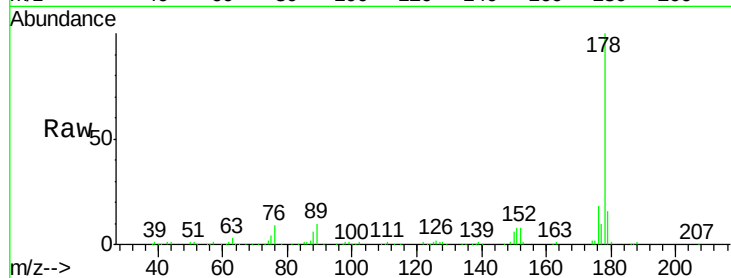
Tot Ion:178 Resp: 306811

Ion Ratio Lower Upper

178 100

179 15.5 12.6 18.8

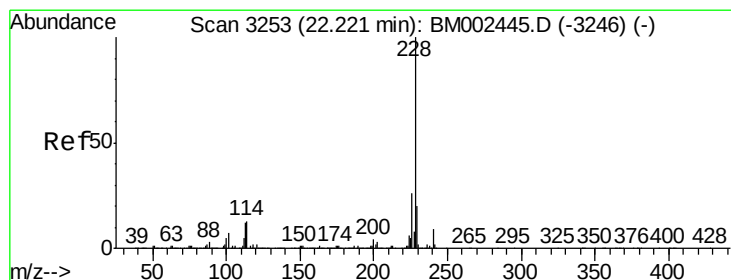
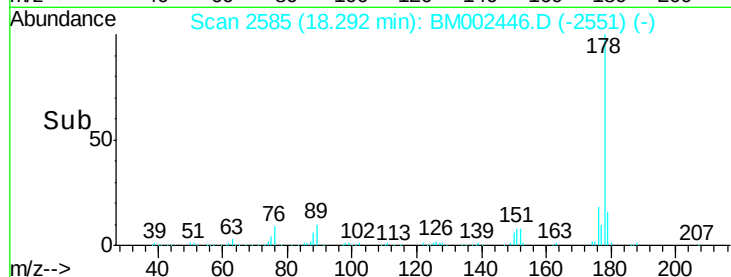
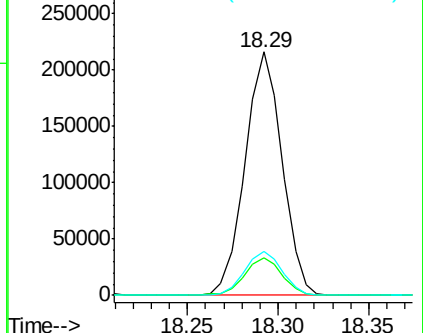
176 18.2 14.5 21.7



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



#20

Benzo(a)anthracene

Concen: 19.54 ng/ul

RT: 22.22 min Scan# 3253

Delta R.T. 0.00 min

Lab File: BM002446.D

Acq: 17 Aug 2015 11:04

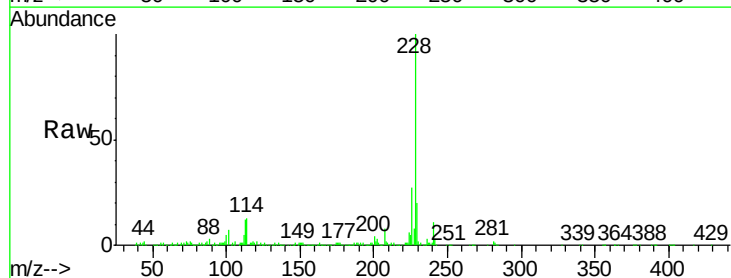
Tgt Ion:228 Resp: 410750

Ion Ratio Lower Upper

228 100

229 19.6 15.8 23.6

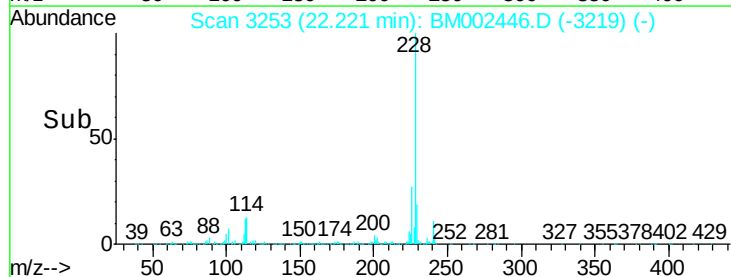
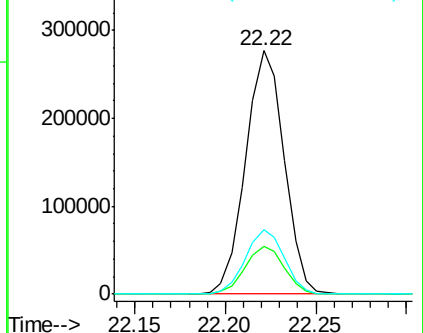
226 26.7 21.1 31.7

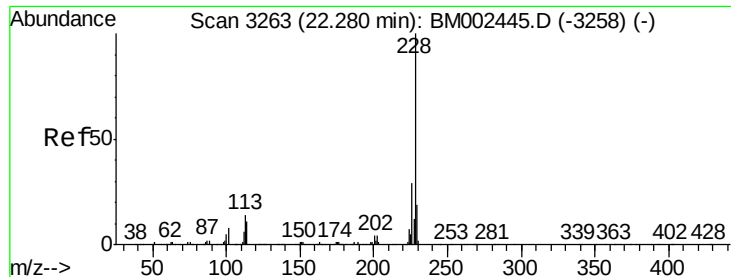


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#21

Chrysene

Concen: 20.89 ng/ul

RT: 22.22 min Scan# 3253

Delta R.T. -0.06 min

Lab File: BM002446.D

Acq: 17 Aug 2015 11:04

Instrument :

BNA\_M

ClientSampleId :

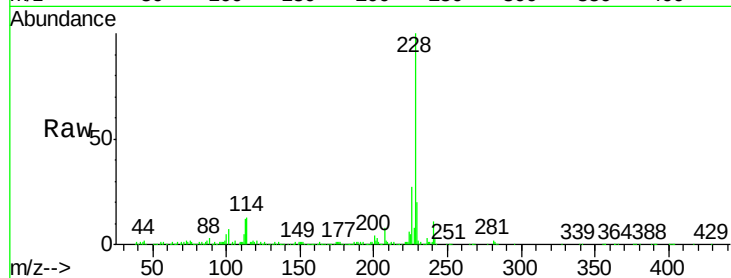
Tot Ion:228 Resp: 410750

Ion Ratio Lower Upper

228 100

226 26.7 23.4 35.2

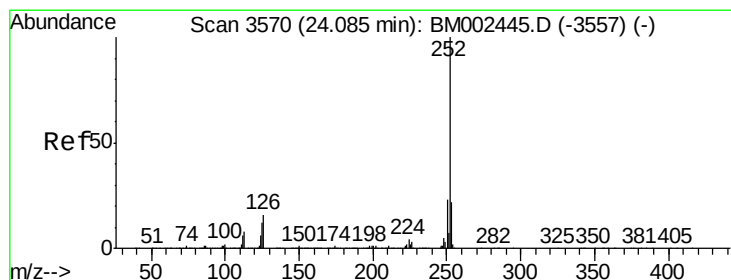
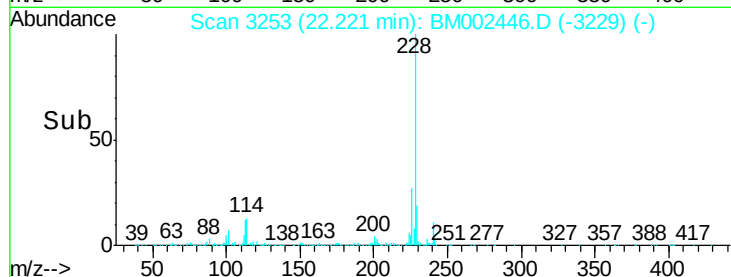
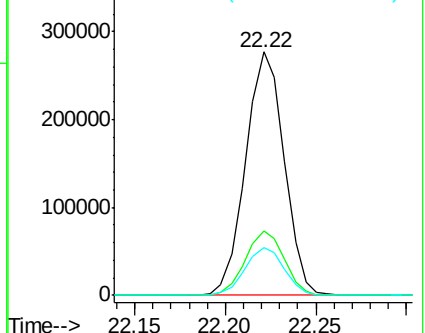
229 19.6 15.7 23.5



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



#23

Benzo(b)fluoranthene

Concen: 23.16 ng/ul

RT: 24.09 min Scan# 3570

Delta R.T. 0.00 min

Lab File: BM002446.D

Acq: 17 Aug 2015 11:04

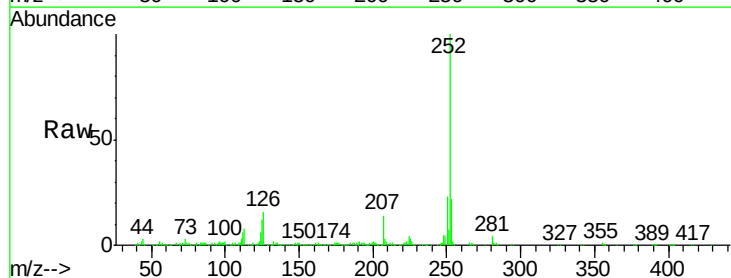
Tgt Ion:252 Resp: 428997

Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.0

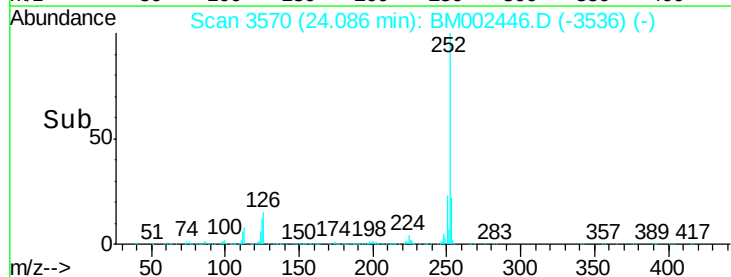
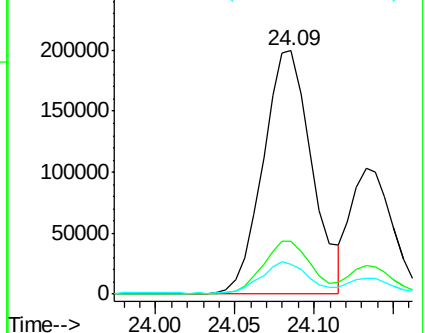
125 12.4 10.0 15.0

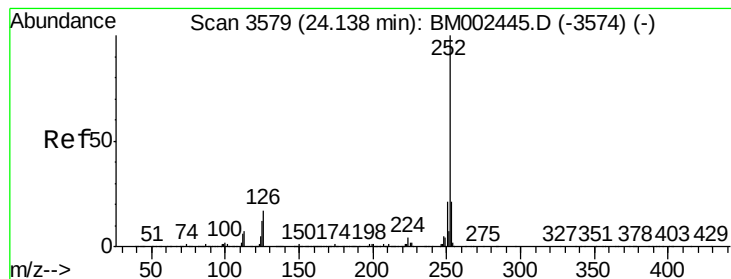


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 10.64 ng/ul

RT: 24.13 min Scan# 3578

Delta R.T. -0.01 min

Lab File: BM002446.D

Acq: 17 Aug 2015 11:04

Instrument :

BNA\_M

ClientSampleId :

Tot Ion:252 Resp: 186872

Ion Ratio Lower Upper

252 100

253 22.6 17.8 26.6

125 13.0 9.8 14.8

