

Data Path : Z:\HPCHEM1\BNA M\DATA\BM122115\  
 Data File : BM003693.D  
 Acq On : 22 Dec 2015 01:17  
 Operator : UM/SJ  
 Sample : G4867-11DL 30X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 G9DA6DL

Quant Time: Dec 22 04:33:31 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM121915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 22 02:40:18 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 30035    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.48 | 136  | 122052   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.34 | 164  | 66671    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.09 | 188  | 143515   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.29 | 240  | 155331   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.54 | 264  | 154016   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds    | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96   | 0        | 0.00 | ng/uL |          |
| 5) Phenol-d5                   | 0.00  | 99   | 0        | 0.00 | ng/ul |          |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.03  | 67   | 1216     | 0.90 | ng/ul | 0.00     |
| 9) 2-Chlorophenol-d4           | 7.23  | 132  | 1387     | 0.67 | ng/ul | 0.00     |
| 13) 4-Methylphenol-d8          | 8.41  | 113  | 601      | 0.27 | ng/ul | 0.00     |
| 19) Nitrobenzene-d5            | 8.86  | 128  | 541      | 0.61 | ng/ul | 0.00     |
| 22) 2-Nitrophenol-d4           | 9.57  | 143  | 612      | 0.61 | ng/ul | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.11 | 165  | 1154     | 0.63 | ng/ul | 0.00     |
| 29) 4-Chloroaniline-d4         | 0.00  | 131  | 0        | 0.00 | ng/ul |          |
| 44) Dimethylphthalate-d6       | 13.76 | 166  | 5893     | 1.07 | ng/ul | 0.00     |
| 47) Acenaphthylene-d8          | 14.04 | 160  | 6973     | 1.11 | ng/ul | 0.00     |
| 52) 4-Nitrophenol-d4           | 0.00  | 143  | 0        | 0.00 | ng/ul |          |
| 58) Fluorene-d10               | 15.34 | 176  | 6083     | 1.33 | ng/ul | 0.00     |
| 63) 4,6-Dinitro-2-methylphenol | 0.00  | 200  | 0        | 0.00 | ng/ul |          |
| 71) Anthracene-d10             | 17.19 | 188  | 8209     | 1.26 | ng/ul | 0.00     |
| 79) Pyrene-d10                 | 19.49 | 212  | 9040     | 1.33 | ng/ul | 0.00     |
| 90) Benzo(a)pyrene-d12         | 23.39 | 264  | 9370     | 1.22 | ng/ul | 0.00     |

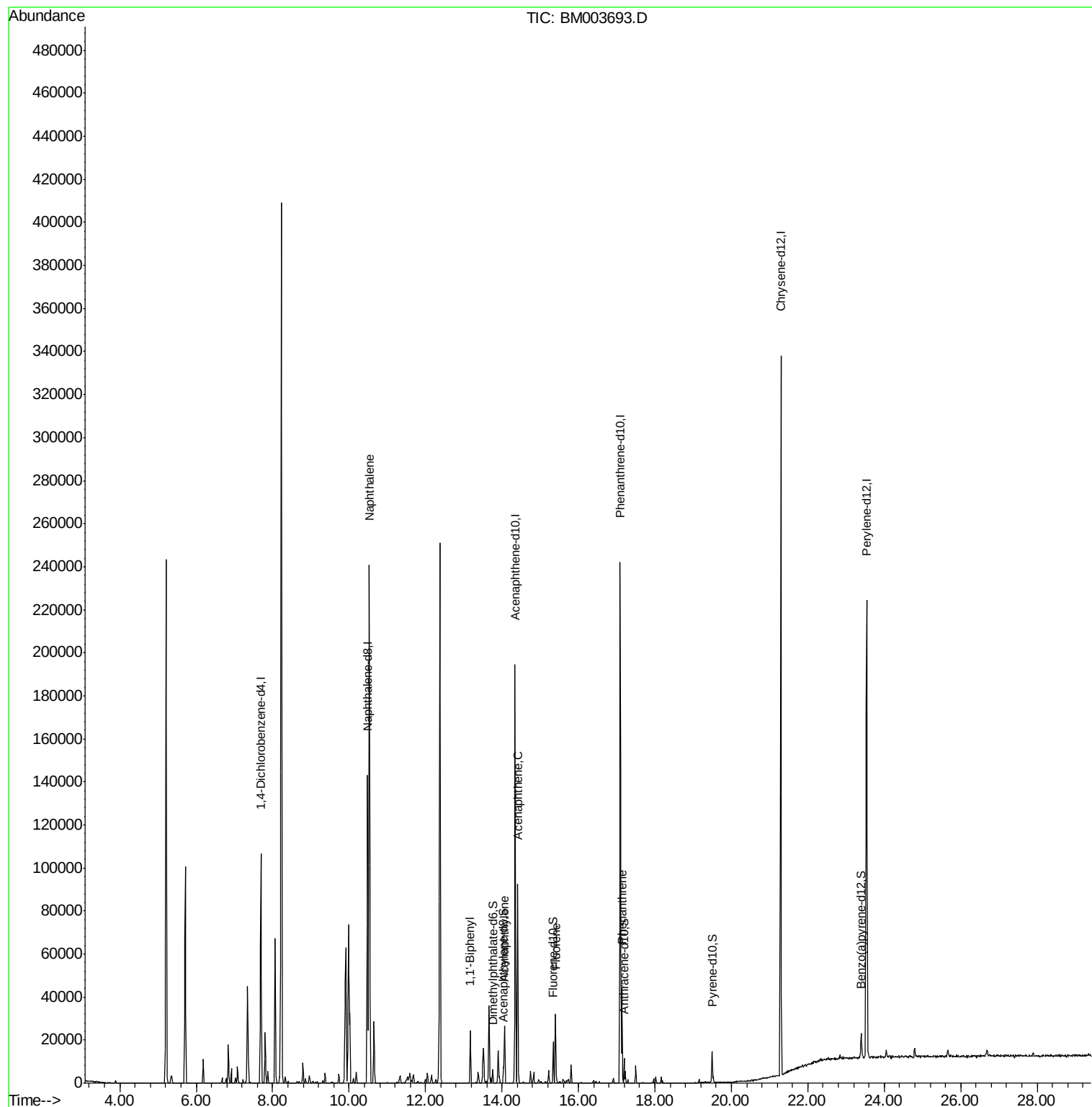
| Target Compounds   | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|--------------------|-------|------|----------|-------|--------|--------|
| 28) Naphthalene    | 10.53 | 128  | 207409   | 32.98 | ng/ul  | 100    |
| 41) 1,1'-Biphenyl  | 13.17 | 154  | 14958    | 2.76  | ng/ul  | 100    |
| 48) Acenaphthylene | 14.07 | 152  | 15513    | 2.26  | ng/ul# | 94     |
| 50) Acenaphthene   | 14.41 | 153  | 38342    | 8.37  | ng/ul  | 99     |
| 59) Fluorene       | 15.40 | 166  | 17175    | 3.27  | ng/ul  | 98     |
| 70) Phenanthrene   | 17.14 | 178  | 29699    | 3.74  | ng/ul  | 100    |

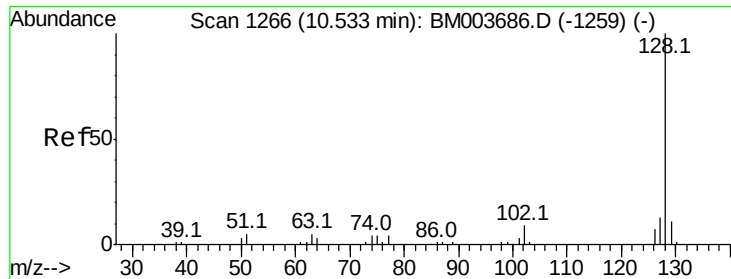
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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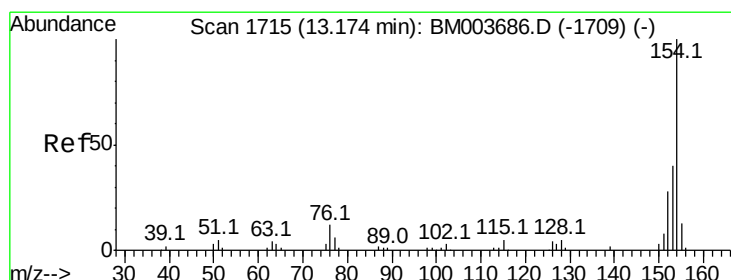
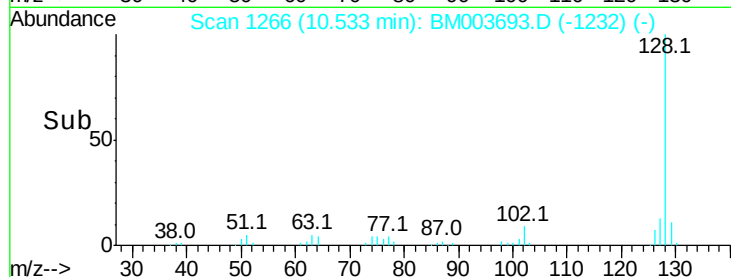
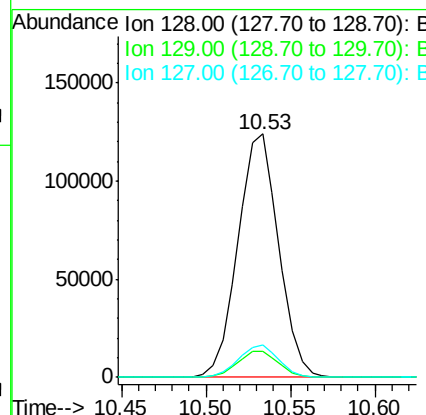
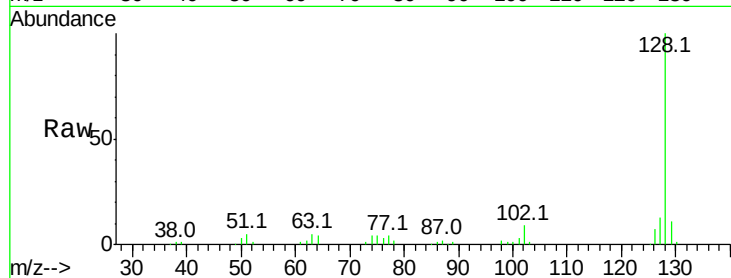




#28  
Naphthalene  
Concen: 32.98 ng/ul  
RT: 10.53 min Scan# 1266  
Delta R.T. 0.00 min  
Lab File: BM003693.D  
Acq: 22 Dec 2015 01:17

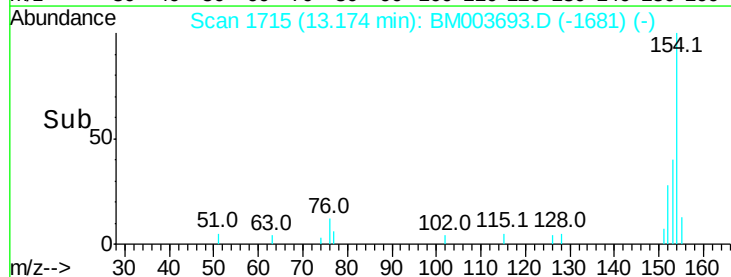
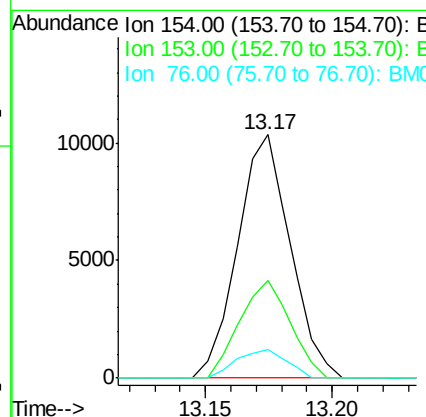
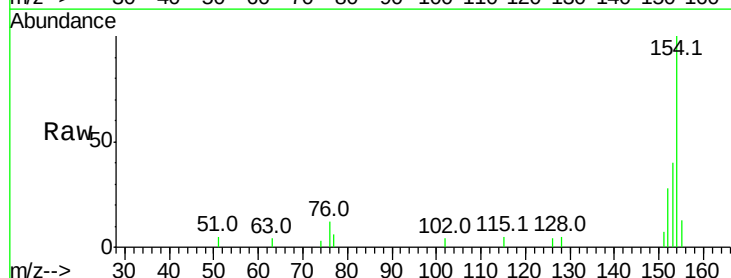
Instrument :  
BNA\_M  
ClientSampleId :  
G9DA6DL

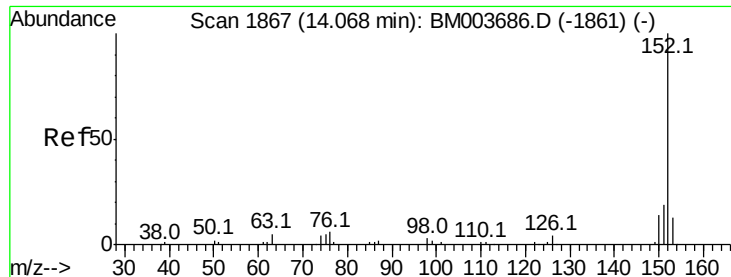
Tot Ion:128 Resp: 207409  
Ion Ratio Lower Upper  
128 100  
129 10.9 8.8 13.2  
127 13.4 10.5 15.7



#41  
1,1'-Biphenyl  
Concen: 2.76 ng/ul  
RT: 13.17 min Scan# 1715  
Delta R.T. 0.00 min  
Lab File: BM003693.D  
Acq: 22 Dec 2015 01:17

Tgt Ion:154 Resp: 14958  
Ion Ratio Lower Upper  
154 100  
153 40.0 32.1 48.1  
76 11.7 9.5 14.3





#48

Acenaphthylene

Concen: 2.26 ng/ul

RT: 14.07 min Scan# 1867

Delta R.T. 0.00 min

Lab File: BM003693.D

Acq: 22 Dec 2015 01:17

Instrument :

BNA\_M

ClientSampleId :

G9DA6DL

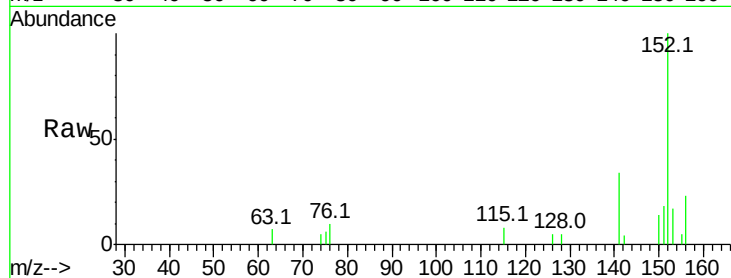
Tot Ion:152 Resp: 15513

Ion Ratio Lower Upper

152 100

151 18.4 15.7 23.5

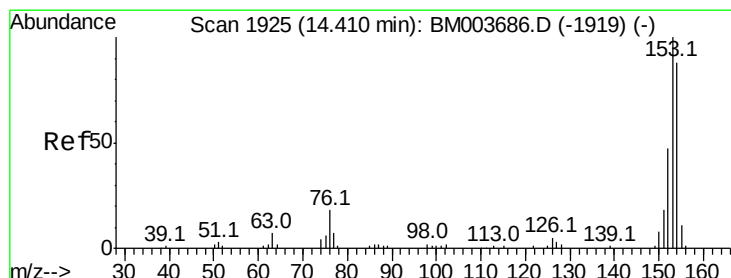
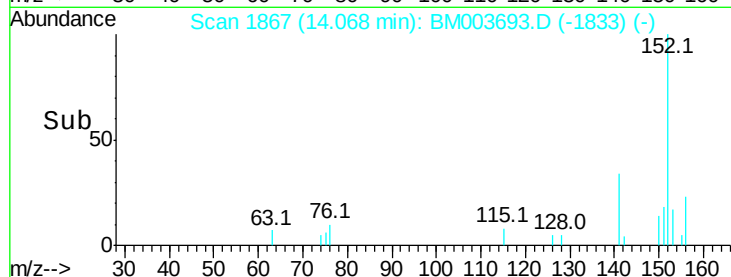
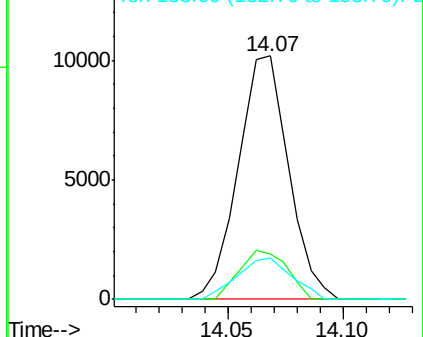
153 17.2 10.5 15.7#



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



#50

Acenaphthene

Concen: 8.37 ng/ul

RT: 14.41 min Scan# 1925

Delta R.T. 0.00 min

Lab File: BM003693.D

Acq: 22 Dec 2015 01:17

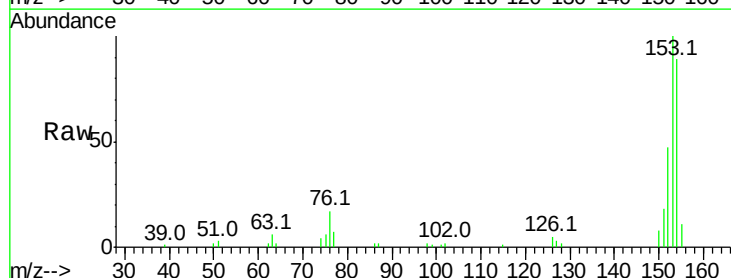
Tgt Ion:153 Resp: 38342

Ion Ratio Lower Upper

153 100

152 47.2 38.3 57.5

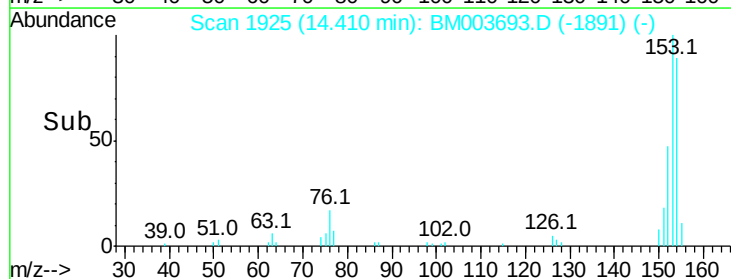
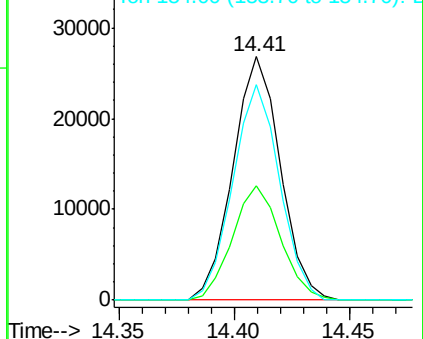
154 88.8 71.8 107.8

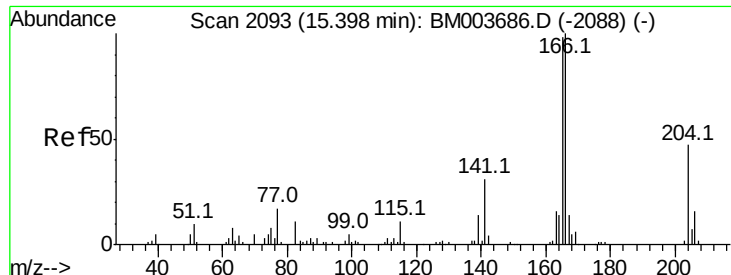


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#59

Fluorene

Concen: 3.27 ng/ul

RT: 15.40 min Scan# 2093

Delta R.T. 0.00 min

Lab File: BM003693.D

Acq: 22 Dec 2015 01:17

Instrument :

BNA\_M

ClientSampled :

G9DA6DL

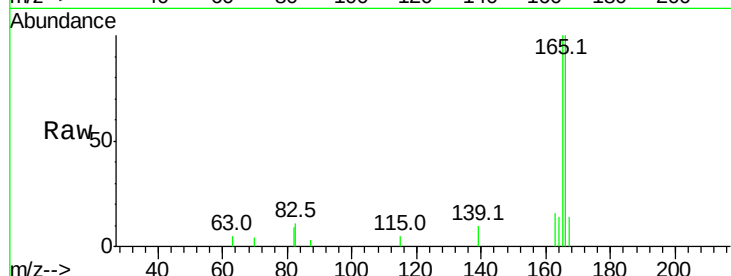
Tot Ion:166 Resp: 17175

Ion Ratio Lower Upper

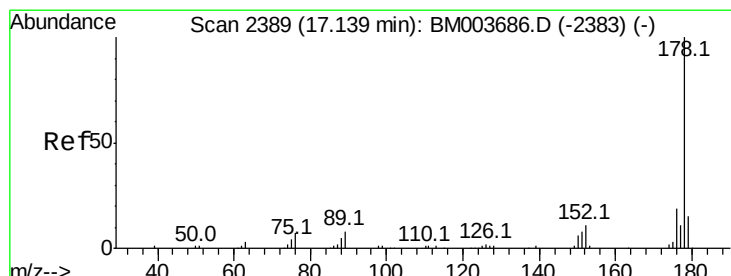
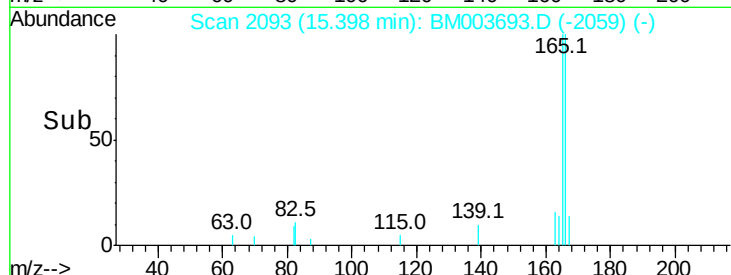
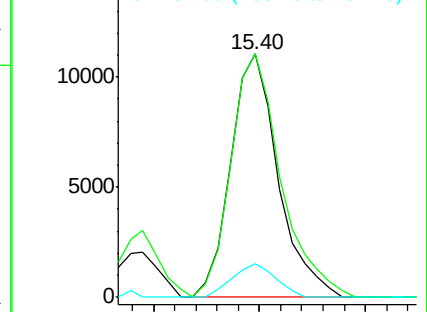
166 100

165 99.9 78.5 117.7

167 13.8 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



#70

Phenanthrene

Concen: 3.74 ng/ul

RT: 17.14 min Scan# 2389

Delta R.T. 0.00 min

Lab File: BM003693.D

Acq: 22 Dec 2015 01:17

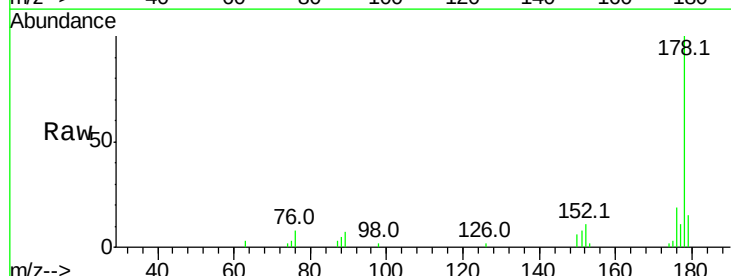
Tgt Ion:178 Resp: 29699

Ion Ratio Lower Upper

178 100

179 15.4 12.2 18.4

176 19.2 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

