

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM090316\  
 Data File : BM007404.D  
 Acq On : 03 Sep 2016 13:10  
 Operator : UM/SJ  
 Sample : H4655-09  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0007

Quant Time: Sep 05 01:46:18 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM082316.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Sep 05 01:45:04 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.79  | 152  | 213505   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.58 | 136  | 1000991  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.43 | 164  | 680254   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.17 | 188  | 1744053  | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.35 | 240  | 2260848  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.62 | 264  | 2085428  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.30  | 96  | 16229   | 3.89  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.96  | 99  | 376053  | 18.65 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.13  | 67  | 217887  | 20.56 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.33  | 132 | 305063  | 20.46 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.49  | 113 | 281740  | 16.02 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.95  | 128 | 164202  | 22.34 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.67  | 143 | 193649  | 22.56 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.20 | 165 | 349852  | 20.48 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.72 | 131 | 270082  | 12.67 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.83 | 166 | 1239868 | 21.13 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.12 | 160 | 1503390 | 22.10 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.63 | 143 | 203541  | 18.37 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.42 | 176 | 1119614 | 22.06 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.54 | 200 | 184768  | 16.85 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.27 | 188 | 1872669 | 22.99 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.56 | 212 | 2331177 | 24.66 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.47 | 264 | 2204502 | 22.95 | ng/ul | 0.00 |

## Target Compounds

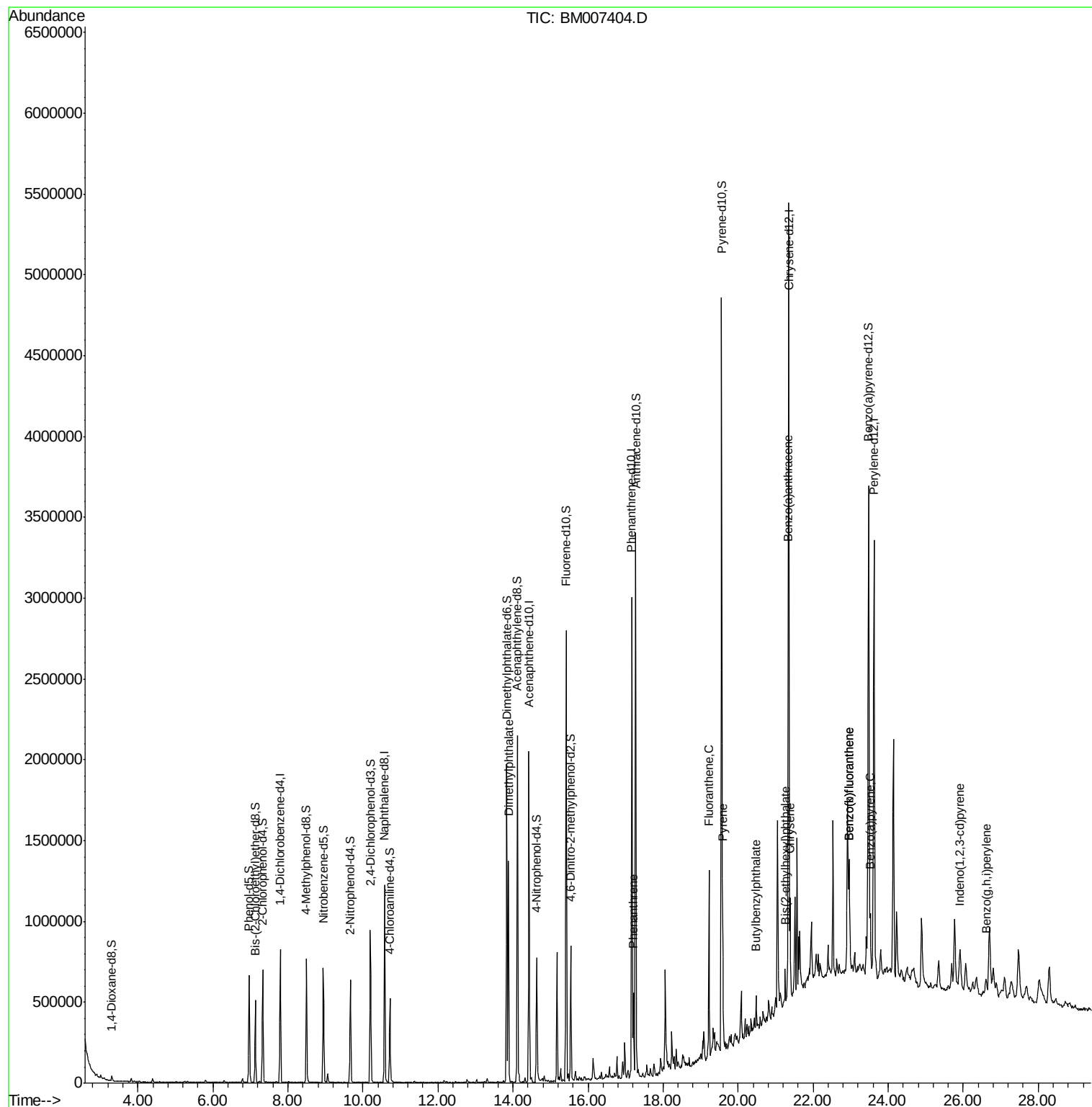
|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 44) Dimethylphthalate          | 13.88 | 163 | 817539 | 13.99 | ng/ul  | 99     |
| 69) Phenanthrene               | 17.21 | 178 | 299869 | 3.20  | ng/ul  | 97     |
| 74) Fluoranthene               | 19.23 | 202 | 698854 | 5.95  | ng/ul  | 97     |
| 77) Pyrene                     | 19.59 | 202 | 584226 | 4.82  | ng/ul  | 97     |
| 78) Butylbenzylphthalate       | 20.49 | 149 | 58667  | 1.16  | ng/ul  | 97     |
| 80) Benzo(a)anthracene         | 21.33 | 228 | 357426 | 2.68  | ng/ul  | 99     |
| 81) Bis(2-ethylhexyl)phthalate | 21.26 | 149 | 76078  | 1.04  | ng/ul# | 99     |
| 82) Chrysene                   | 21.39 | 228 | 321401 | 2.66  | ng/ul  | 97     |
| 85) Benzo(b)fluoranthene       | 22.94 | 252 | 416269 | 3.38  | ng/ul# | 94     |
| 86) Benzo(k)fluoranthene       | 22.94 | 252 | 416269 | 3.65  | ng/ul# | 95     |
| 88) Benzo(a)pyrene             | 23.52 | 252 | 278869 | 2.36  | ng/ul  | 99     |
| 89) Indeno(1,2,3-cd)pyrene     | 25.90 | 276 | 152175 | 1.05  | ng/ul  | 98     |
| 91) Benzo(g,h,i)perylene       | 26.61 | 276 | 130455 | 1.06  | ng/ul  | 96     |

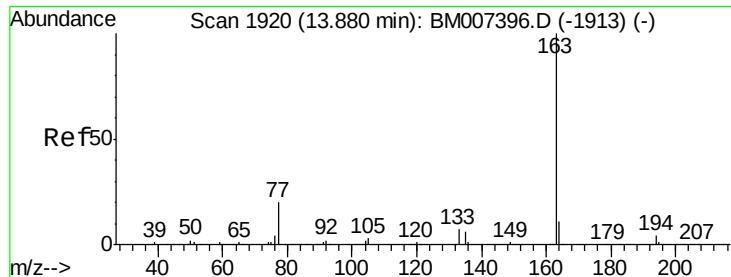
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Sep 05 01:45:04 2016  
Response via : Initial Calibration





#44

Dimethylphthalate

Concen: 13.99 ng/ul

RT: 13.88 min Scan# 1920

Delta R.T. 0.00 min

Lab File: BM007404.D

Acq: 03 Sep 2016 13:10

Instrument :

BNA\_M

ClientSampleId :

C0007

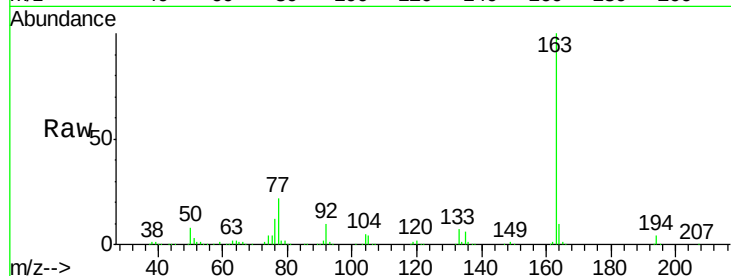
Tgt Ion:163 Resp: 817539

Ion Ratio Lower Upper

163 100

194 4.1 3.4 5.2

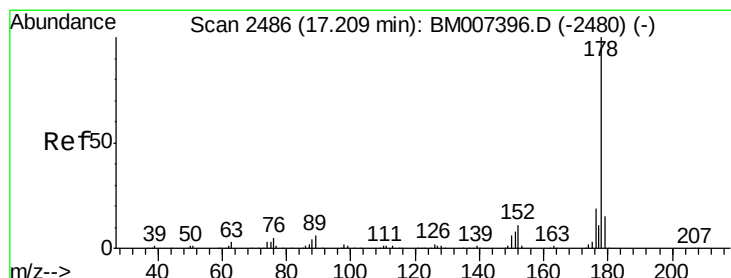
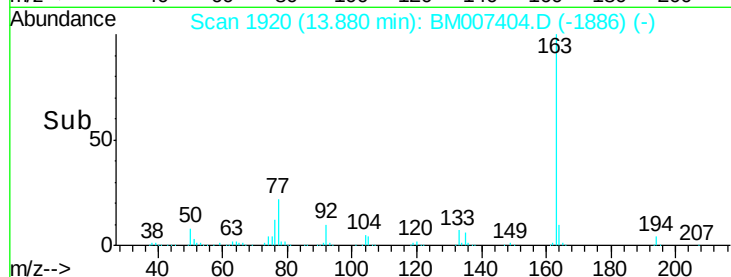
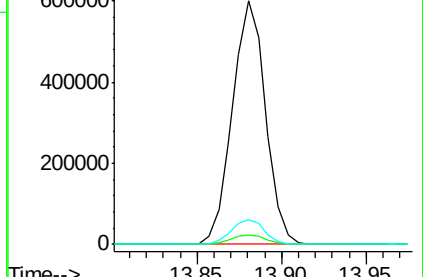
164 10.4 7.8 11.8



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



#69

Phenanthrene

Concen: 3.20 ng/ul

RT: 17.21 min Scan# 2486

Delta R.T. 0.00 min

Lab File: BM007404.D

Acq: 03 Sep 2016 13:10

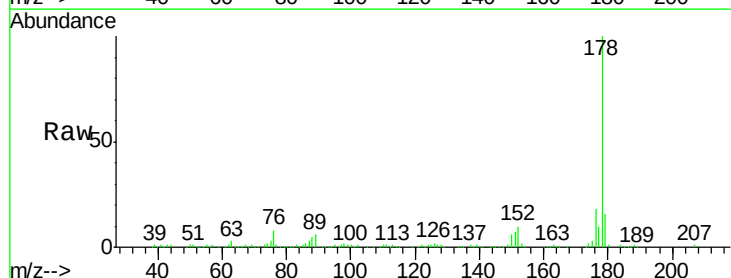
Tgt Ion:178 Resp: 299869

Ion Ratio Lower Upper

178 100

179 16.1 12.2 18.2

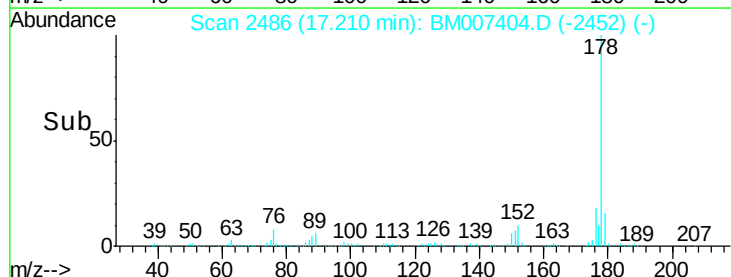
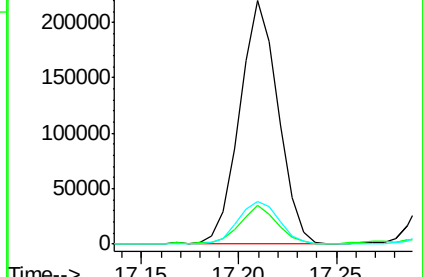
176 17.6 15.1 22.7

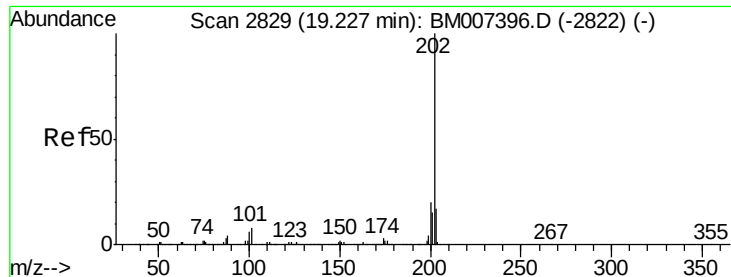


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Fluoranthene

Concen: 5.95 ng/ul

RT: 19.23 min Scan# 2829

Delta R.T. 0.00 min

Lab File: BM007404.D

Acq: 03 Sep 2016 13:10

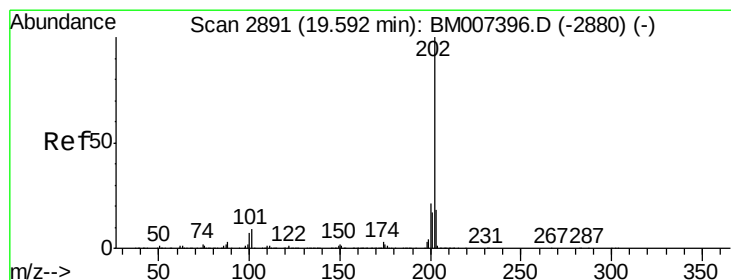
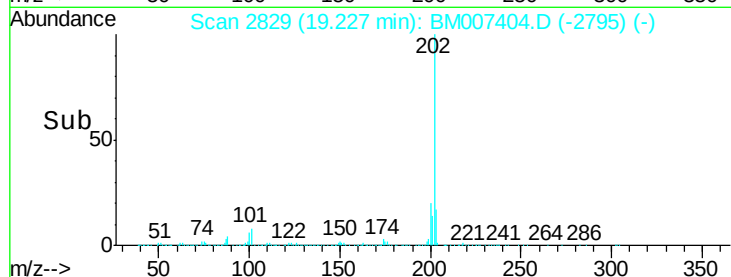
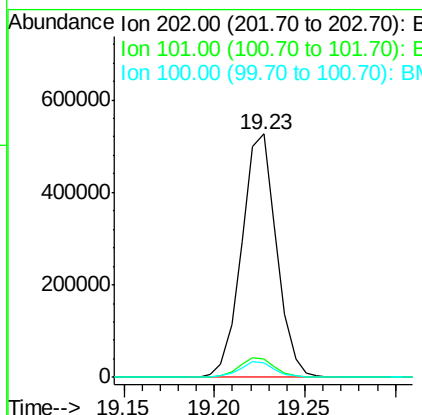
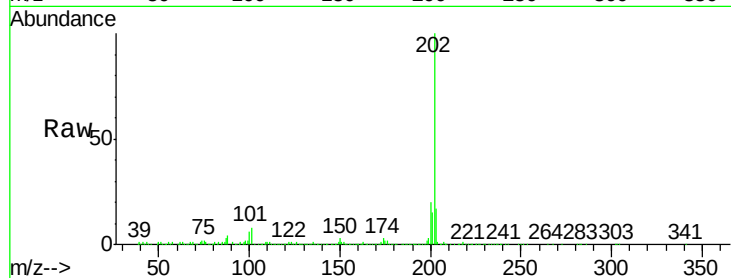
Instrument :

BNA\_M

ClientSampleId :

C0007

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 698854 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 7.7   | 6.9   | 10.3   |
| 100      | 5.8   | 5.4   | 8.0    |



#77

Pyrene

Concen: 4.82 ng/ul

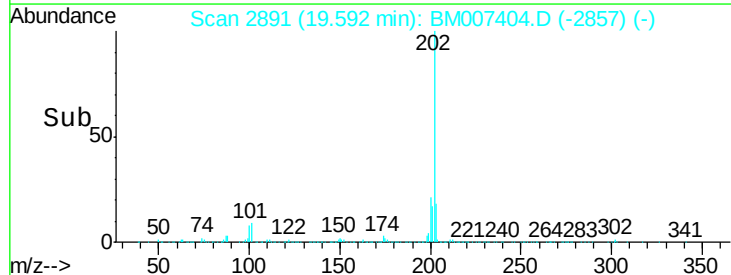
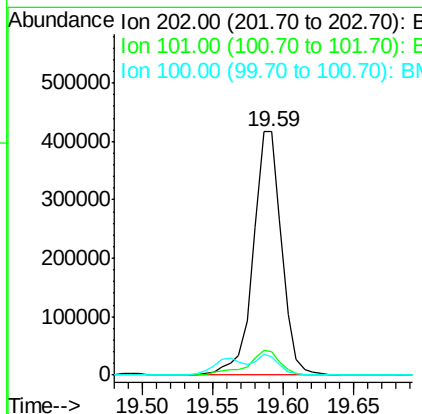
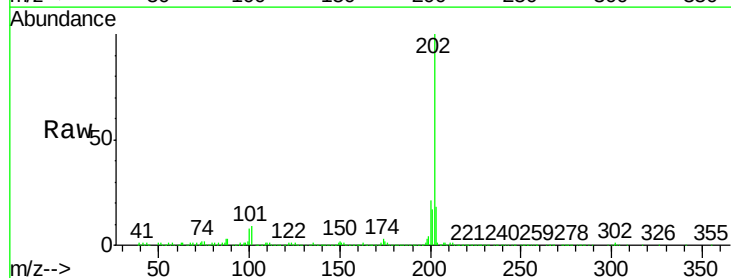
RT: 19.59 min Scan# 2891

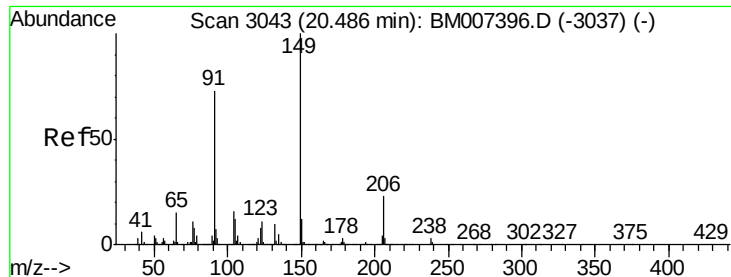
Delta R.T. 0.00 min

Lab File: BM007404.D

Acq: 03 Sep 2016 13:10

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 584226 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 9.4   | 8.4   | 12.6   |
| 100      | 7.8   | 6.9   | 10.3   |





#78

Butylbenzylphthalate

Concen: 1.16 ng/ul

RT: 20.49 min Scan# 3043

Delta R.T. 0.00 min

Lab File: BM007404.D

Acq: 03 Sep 2016 13:10

Instrument :

BNA\_M

ClientSampleId :

C0007

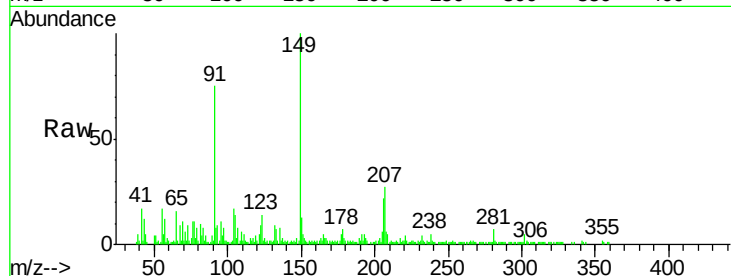
Tgt Ion:149 Resp: 58667

Ion Ratio Lower Upper

149 100

91 74.9 57.3 85.9

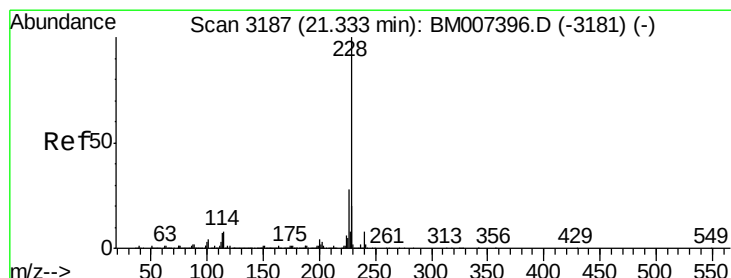
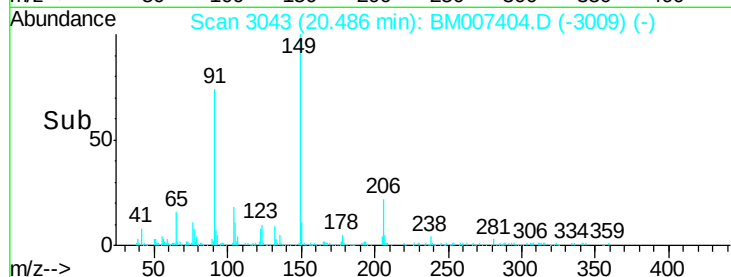
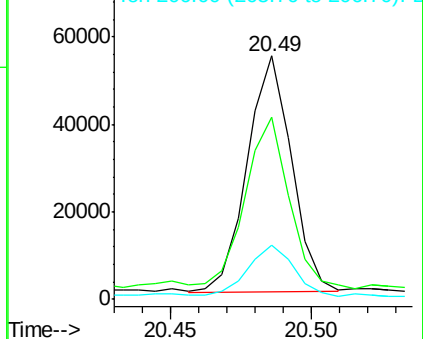
206 22.3 18.6 27.8



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BM0

Ion 206.00 (205.70 to 206.70): E



#80

Benzo(a)anthracene

Concen: 2.68 ng/ul

RT: 21.33 min Scan# 3187

Delta R.T. 0.00 min

Lab File: BM007404.D

Acq: 03 Sep 2016 13:10

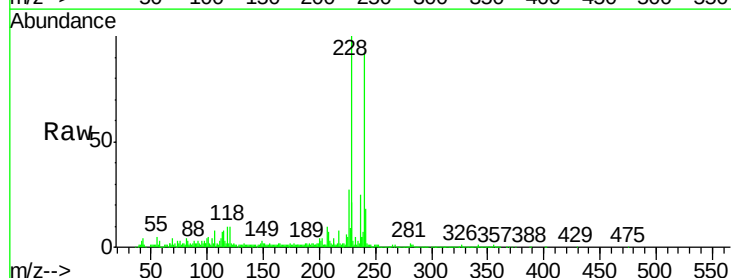
Tgt Ion:228 Resp: 357426

Ion Ratio Lower Upper

228 100

229 20.7 15.6 23.4

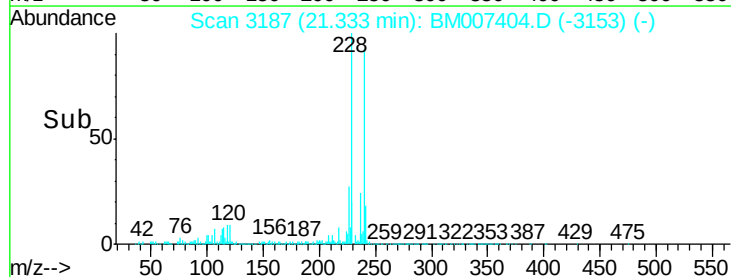
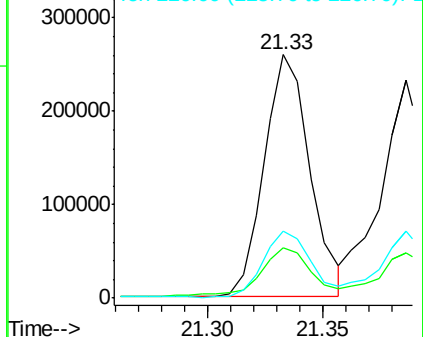
226 27.4 21.8 32.8

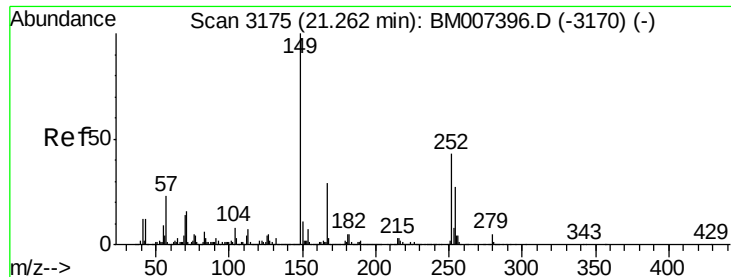


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E

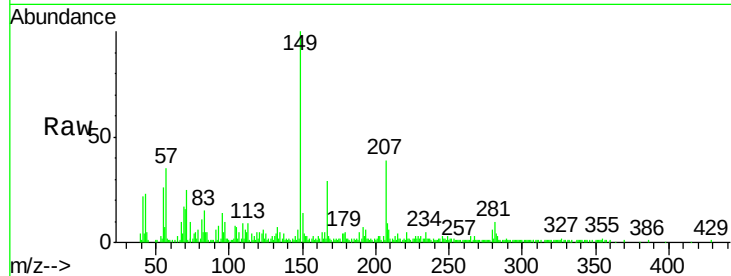




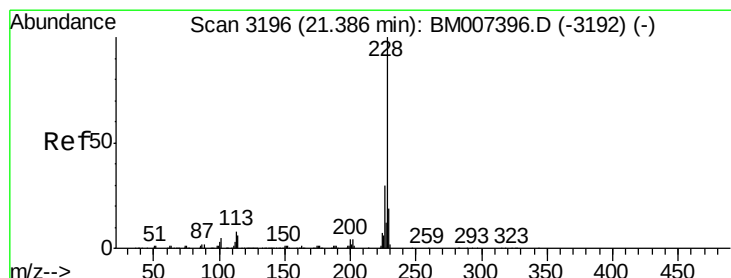
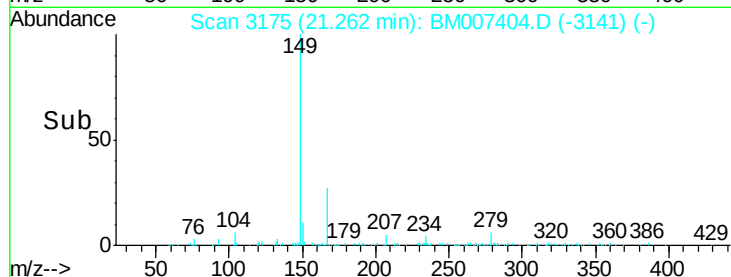
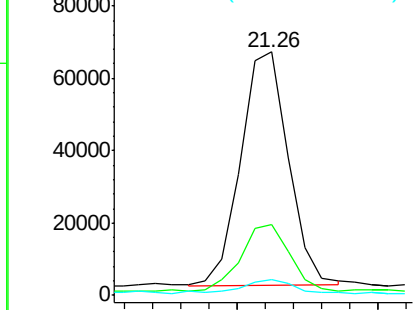
#81  
 Bis(2-ethylhexyl)phthalate  
 Concen: 1.04 ng/ul  
 RT: 21.26 min Scan# 3175  
 Delta R.T. 0.00 min  
 Lab File: BM007404.D  
 Acq: 03 Sep 2016 13:10

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0007

Tgt Ion:149 Resp: 76078  
 Ion Ratio Lower Upper  
 149 100  
 167 28.9 23.2 34.8  
 279 6.3 4.1 6.1#

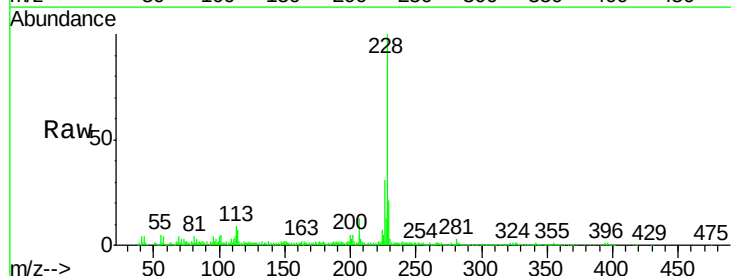


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

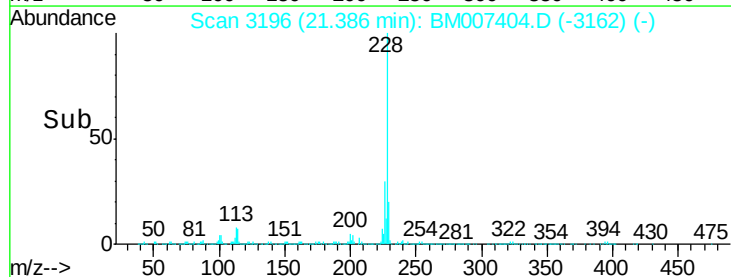
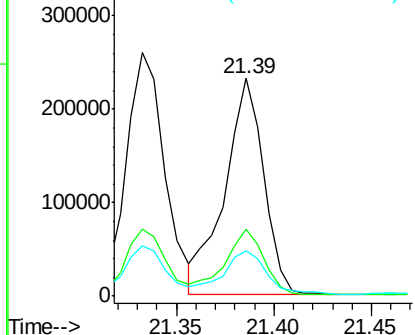


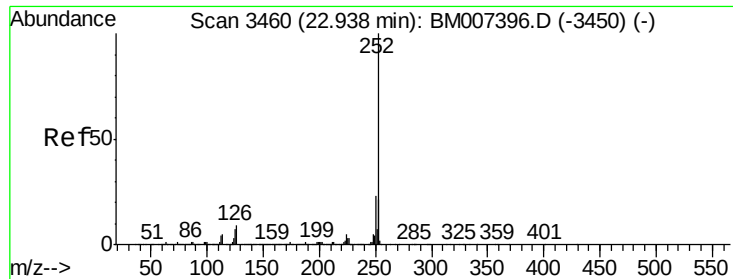
#82  
 Chrysene  
 Concen: 2.66 ng/ul  
 RT: 21.39 min Scan# 3196  
 Delta R.T. 0.00 min  
 Lab File: BM007404.D  
 Acq: 03 Sep 2016 13:10

Tgt Ion:228 Resp: 321401  
 Ion Ratio Lower Upper  
 228 100  
 226 30.6 23.4 35.2  
 229 21.0 15.5 23.3



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





#85

Benzo(b)fluoranthene

Concen: 3.38 ng/ul

RT: 22.94 min Scan# 3460

Delta R.T. 0.00 min

Lab File: BM007404.D

Acq: 03 Sep 2016 13:10

Instrument :

BNA\_M

ClientSampleId :

C0007

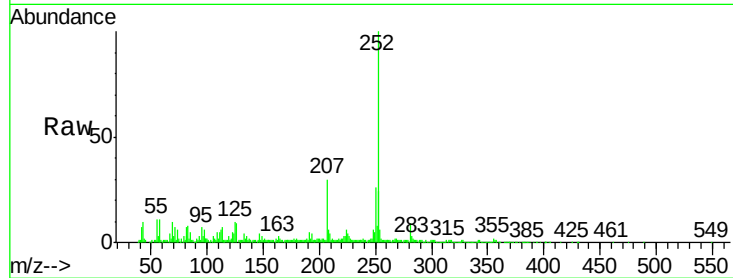
Tgt Ion:252 Resp: 416269

Ion Ratio Lower Upper

252 100

253 24.2 17.1 25.7

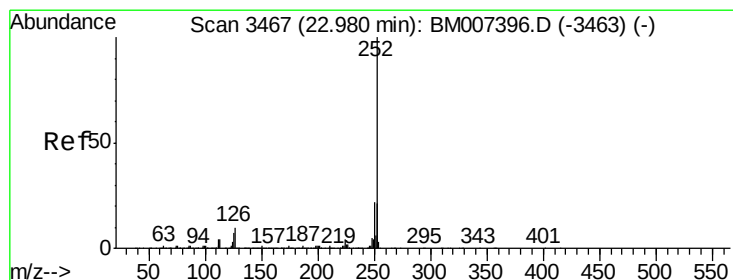
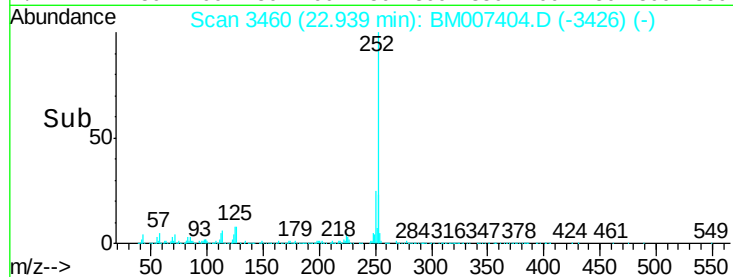
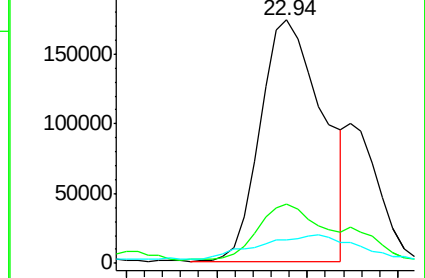
125 9.8 5.8 8.8#



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



#86

Benzo(k)fluoranthene

Concen: 3.65 ng/ul

RT: 22.94 min Scan# 3460

Delta R.T. -0.04 min

Lab File: BM007404.D

Acq: 03 Sep 2016 13:10

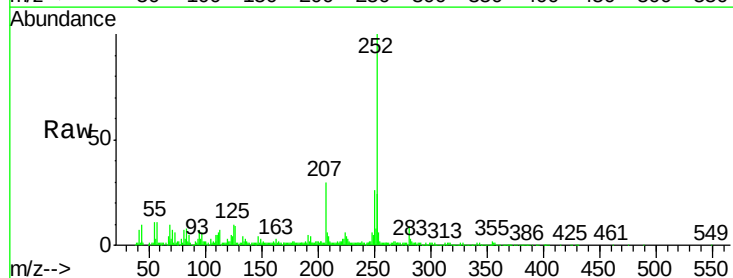
Tgt Ion:252 Resp: 416269

Ion Ratio Lower Upper

252 100

253 24.2 17.6 26.4

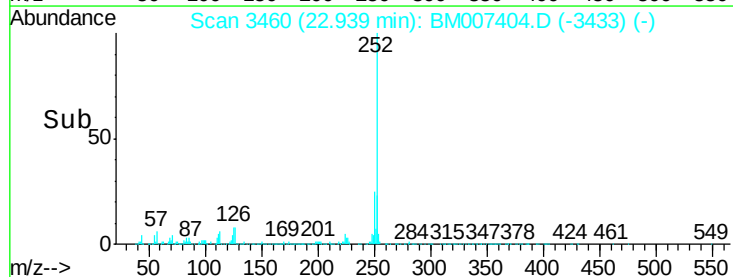
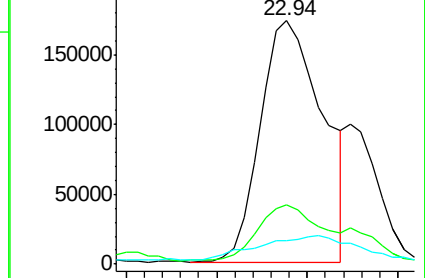
125 9.8 5.7 8.5#

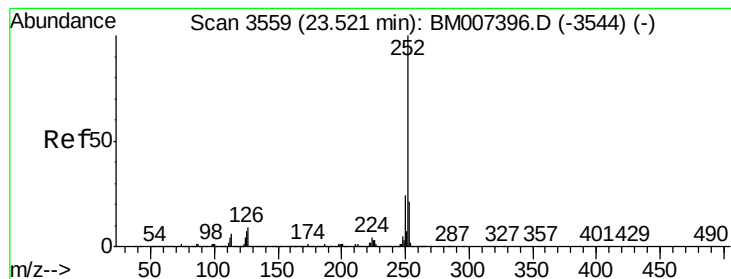


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 2.36 ng/ul

RT: 23.52 min Scan# 3559

Delta R.T. 0.00 min

Lab File: BM007404.D

Acq: 03 Sep 2016 13:10

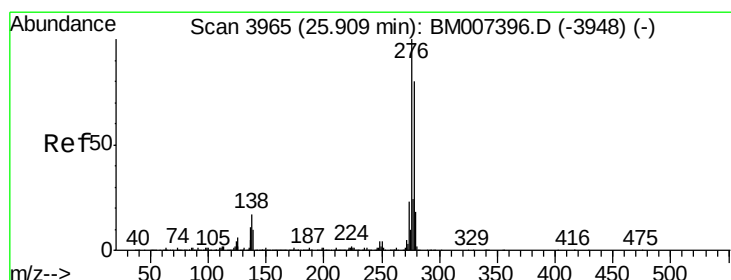
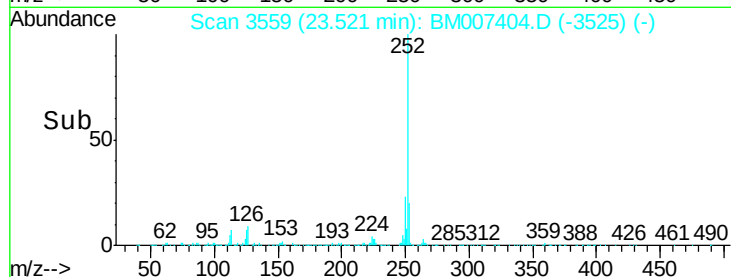
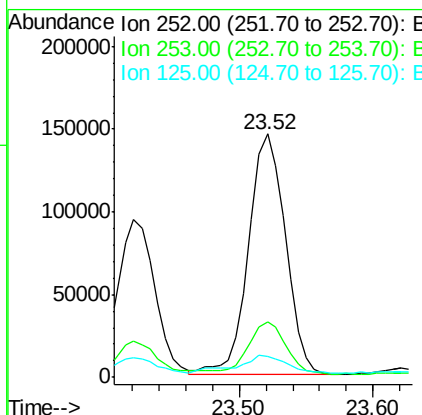
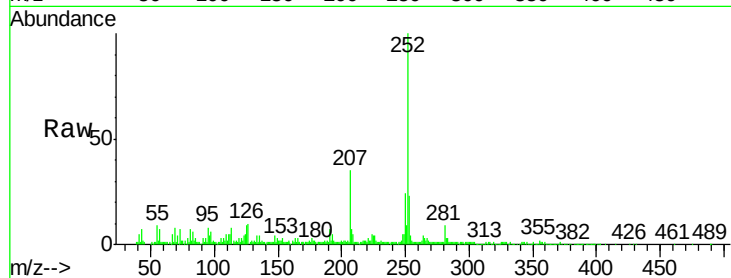
Instrument :

BNA\_M

ClientSampleId :

C0007

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 278869 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.7  | 17.7  | 26.5   |
| 125       | 8.6   | 6.6   | 9.8    |



#89

Indeno(1,2,3-cd)pyrene

Concen: 1.05 ng/ul

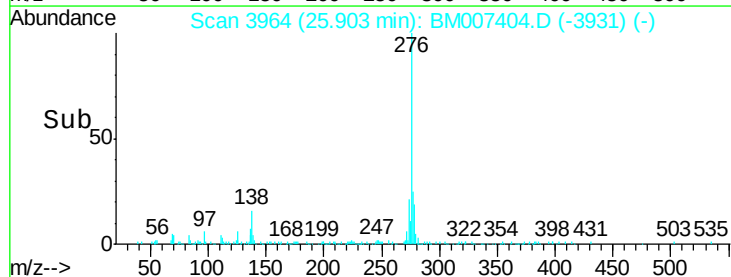
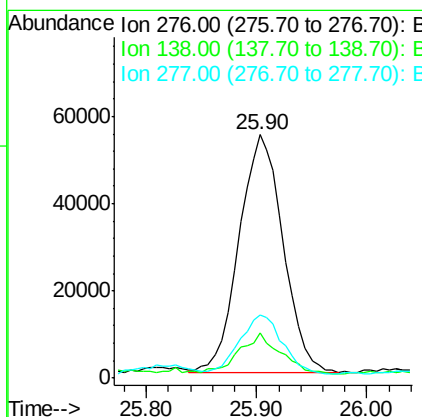
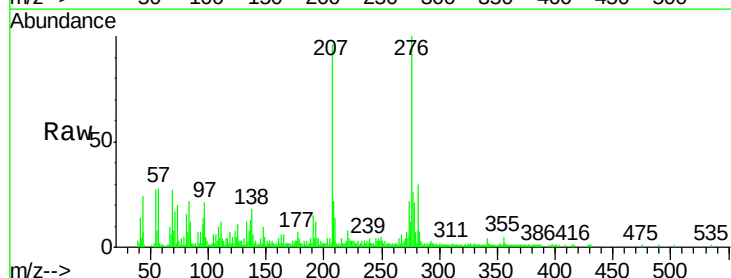
RT: 25.90 min Scan# 3964

Delta R.T. -0.01 min

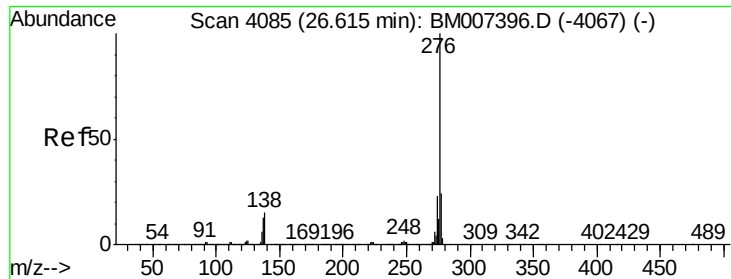
Lab File: BM007404.D

Acq: 03 Sep 2016 13:10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 152175 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 18.3  | 13.9  | 20.9   |
| 277       | 26.1  | 20.1  | 30.1   |







#91

Benzo(g,h,i)perylene

Concen: 1.06 ng/ul

RT: 26.61 min Scan# 4084

Delta R.T. -0.01 min

Lab File: BM007404.D

Acq: 03 Sep 2016 13:10

Instrument :

BNA\_M

ClientSampleId :

C0007

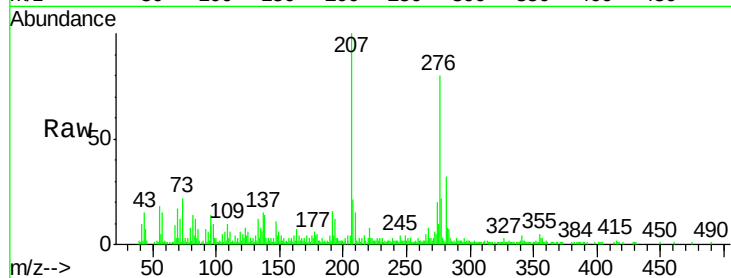
Tgt Ion: 276 Resp: 130455

Ion Ratio Lower Upper

276 100

138 17.4 13.5 20.3

277 27.2 19.3 28.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

