

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG072715\  
 Data File : BG018156.D  
 Acq On : 28 Jul 2015 20:57  
 Operator : TP/UM  
 Sample : G3030-09  
 Misc :  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C01N2

Quant Time: Jul 29 02:03:09 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG072315.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jul 29 01:59:28 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.51  | 152  | 54319    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.30 | 136  | 242071   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.19 | 164  | 143353   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.03 | 188  | 185884   | 20.00 | ng/ul | 0.10     |
| 78) Chrysene-d12          | 21.15 | 240  | 302962   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.35 | 264  | 318359   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.02  | 96  | 2281   | 2.62  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.70  | 99  | 62610  | 14.94 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.85  | 67  | 30321  | 14.66 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.05  | 132 | 62206  | 16.74 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.23  | 113 | 49543  | 13.33 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.67  | 128 | 33844  | 17.69 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.38  | 143 | 36394  | 18.01 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.93  | 165 | 59707  | 16.98 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.44 | 131 | 31907  | 7.80  | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.60 | 166 | 171161 | 17.01 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.87 | 160 | 202206 | 16.35 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.41 | 143 | 22135  | 10.45 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.18 | 176 | 139195 | 14.96 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.32 | 200 | 9187   | 7.73  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.03 | 188 | 185884 | 23.09 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.35 | 212 | 184056 | 13.26 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.20 | 264 | 195082 | 12.84 | ng/ul | 0.00 |

## Target Compounds

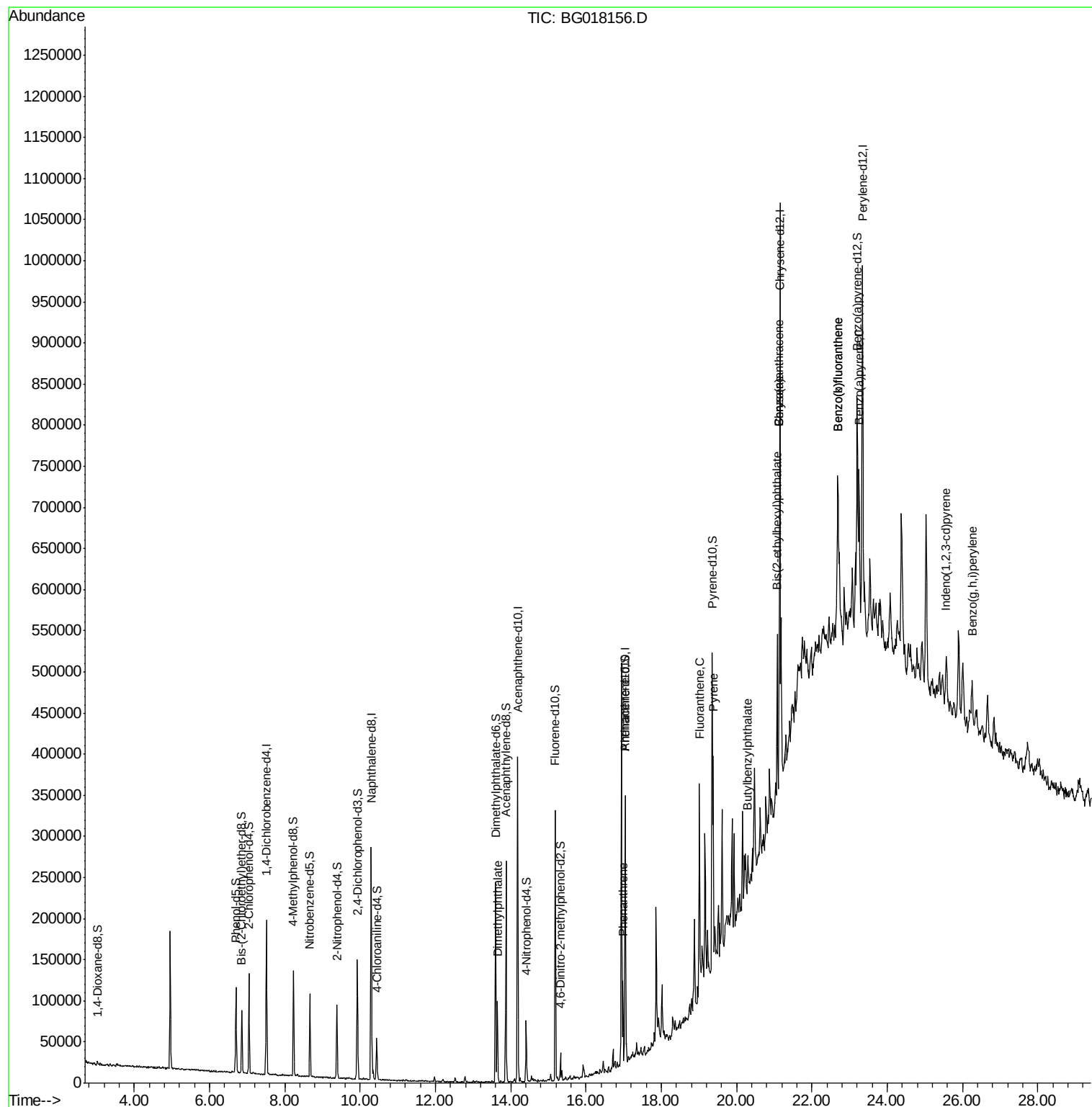
|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 45) Dimethylphthalate          | 13.64 | 163 | 66068  | 6.52  | ng/ul  | 97     |
| 70) Phenanthrene               | 16.98 | 178 | 58595  | 6.27  | ng/ul  | 97     |
| 77) Fluoranthene               | 19.01 | 202 | 151531 | 15.23 | ng/ul  | 95     |
| 80) Pyrene                     | 19.38 | 202 | 149821 | 8.64  | ng/ul  | 94     |
| 81) Butylbenzylphthalate       | 20.30 | 149 | 15117  | 2.13  | ng/ul  | 92     |
| 83) Benzo(a)anthracene         | 21.13 | 228 | 92289  | 5.76  | ng/ul  | 99     |
| 84) Bis(2-ethylhexyl)phthalate | 21.08 | 149 | 77344  | 7.60  | ng/ul# | 98     |
| 85) Chrysene                   | 21.13 | 228 | 93396  | 6.19  | ng/ul  | 95     |
| 88) Benzo(b)fluoranthene       | 22.69 | 252 | 148089 | 8.49  | ng/ul# | 92     |
| 89) Benzo(k)fluoranthene       | 22.69 | 252 | 148089 | 8.77  | ng/ul# | 91     |
| 91) Benzo(a)pyrene             | 23.25 | 252 | 89605  | 5.30  | ng/ul# | 94     |
| 92) Indeno(1,2,3-cd)pyrene     | 25.57 | 276 | 61351  | 3.15  | ng/ul  | 93     |
| 94) Benzo(g,h,i)perylene       | 26.25 | 276 | 56443  | 3.51  | ng/ul  | 95     |

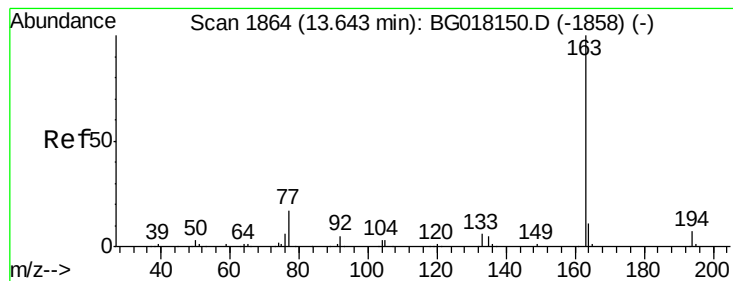
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG072715\  
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C01N2

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Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG072315.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jul 29 01:59:28 2015  
Response via : Initial Calibration





#45

Dimethylphthalate

Concen: 6.52 ng/ul

RT: 13.64 min Scan# 1865

Delta R.T. 0.00 min

Lab File: BG018156.D

Acq: 28 Jul 2015 20:57

Instrument :

BNA\_M

ClientSampleId :

C01N2

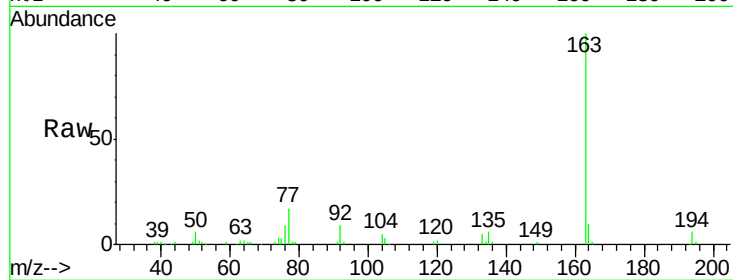
Tgt Ion:163 Resp: 66068

Ion Ratio Lower Upper

163 100

194 6.3 5.4 8.2

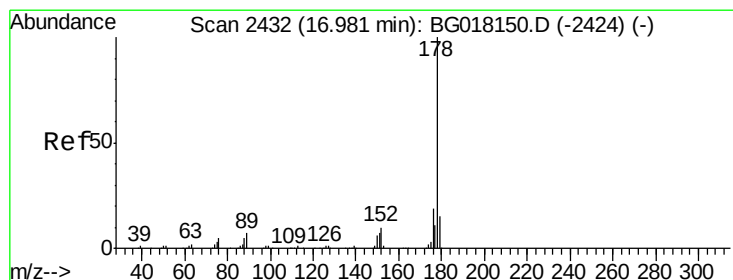
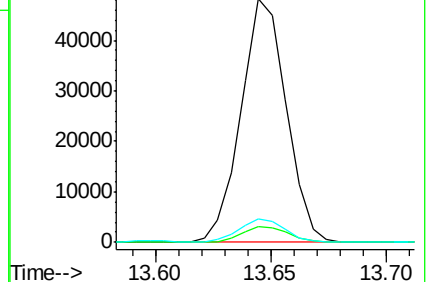
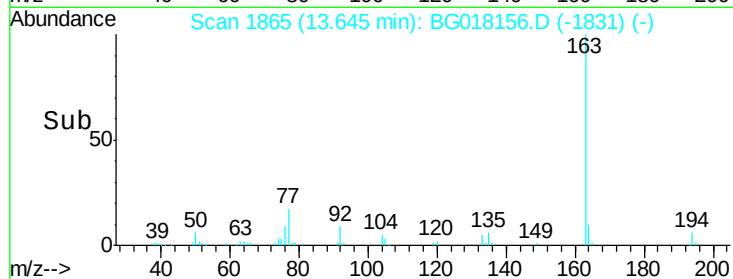
164 9.6 8.7 13.1



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: 6.27 ng/ul

RT: 16.98 min Scan# 2433

Delta R.T. 0.00 min

Lab File: BG018156.D

Acq: 28 Jul 2015 20:57

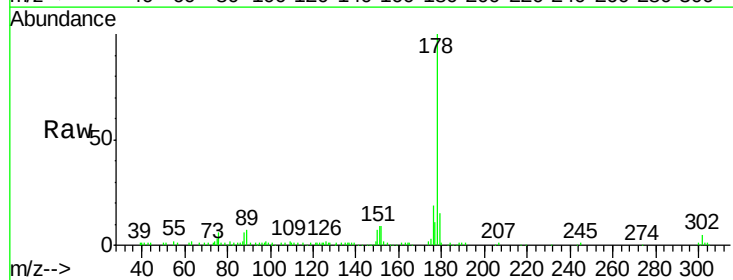
Tgt Ion:178 Resp: 58595

Ion Ratio Lower Upper

178 100

179 14.7 13.0 19.6

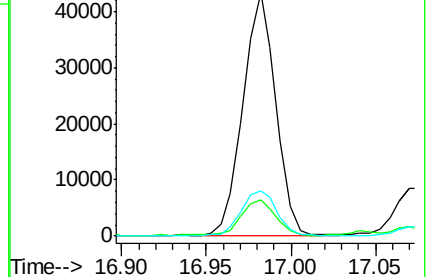
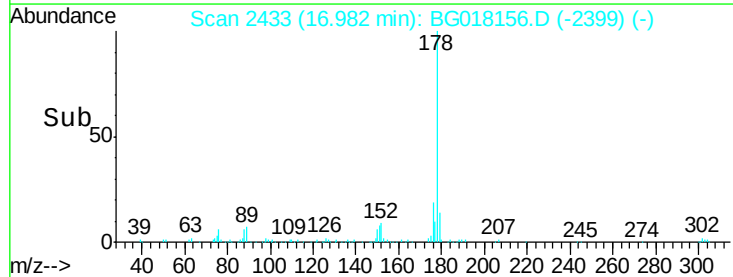
176 18.6 15.8 23.8

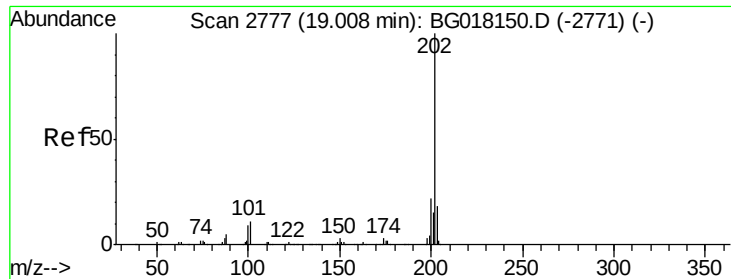


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

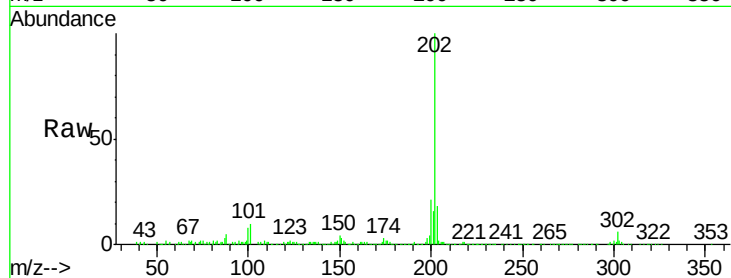




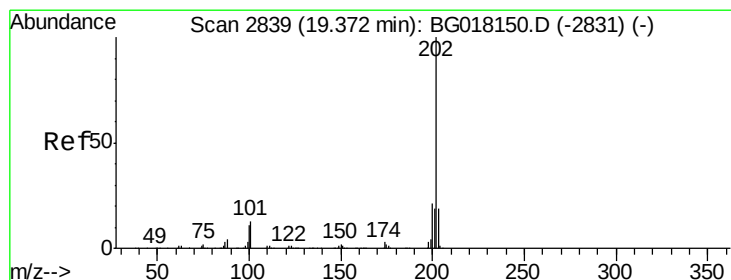
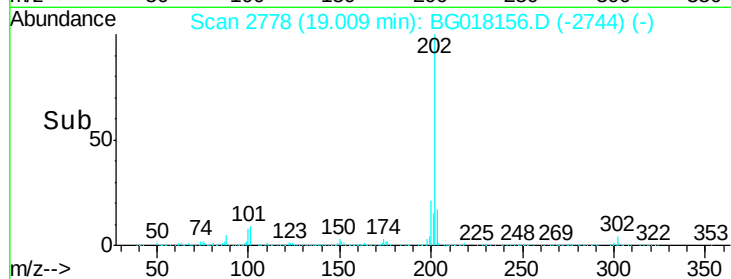
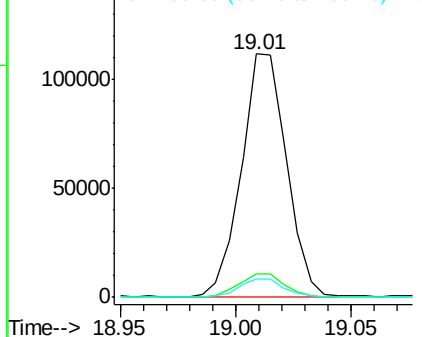
#77  
 Fluoranthene  
 Concen: 15.23 ng/ul  
 RT: 19.01 min Scan# 2778  
 Delta R.T. 0.00 min  
 Lab File: BG018156.D  
 Acq: 28 Jul 2015 20:57

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C01N2

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 151531 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 9.5   | 9.1   | 13.7   |
| 100      | 7.7   | 7.5   | 11.3   |

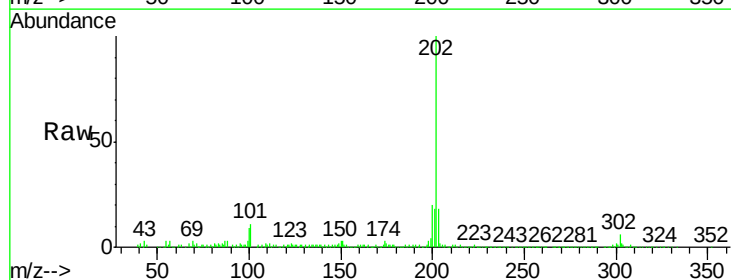


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B

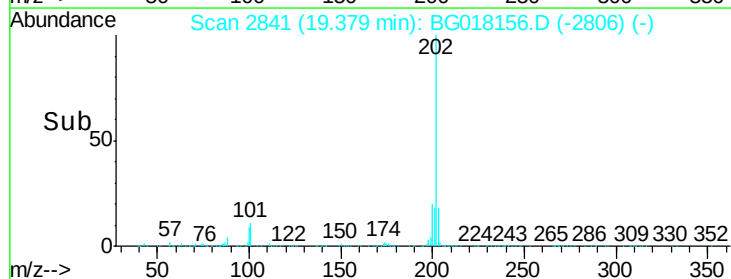
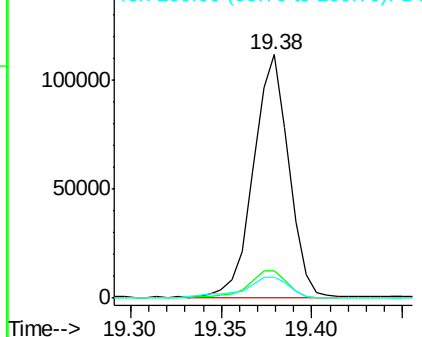


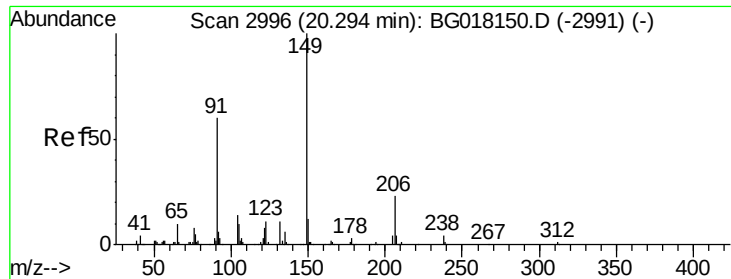
#80  
 Pyrene  
 Concen: 8.64 ng/ul  
 RT: 19.38 min Scan# 2841  
 Delta R.T. 0.01 min  
 Lab File: BG018156.D  
 Acq: 28 Jul 2015 20:57

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 149821 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 11.2  | 10.9  | 16.3   |
| 100      | 8.6   | 8.5   | 12.7   |



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

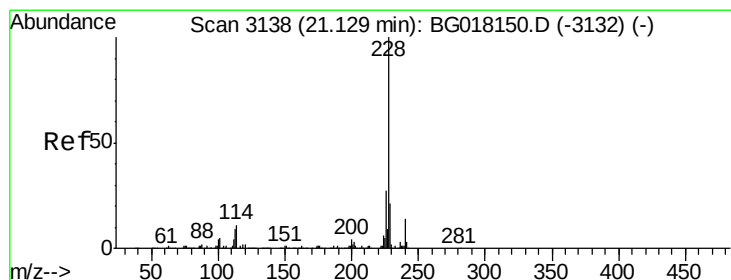
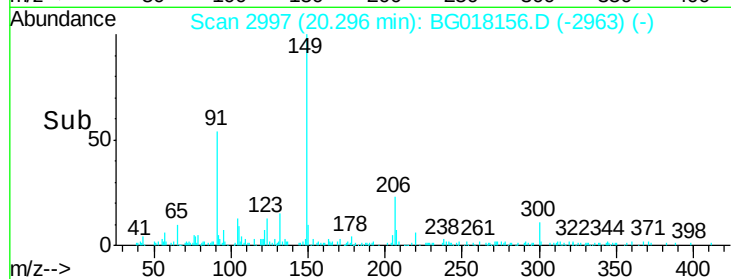
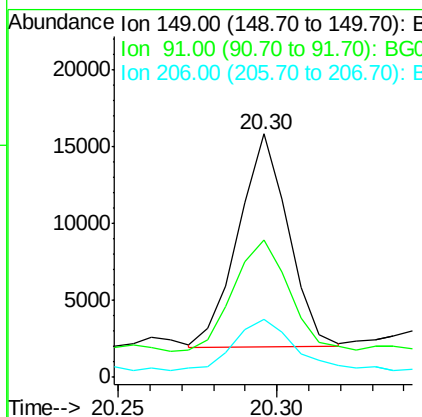
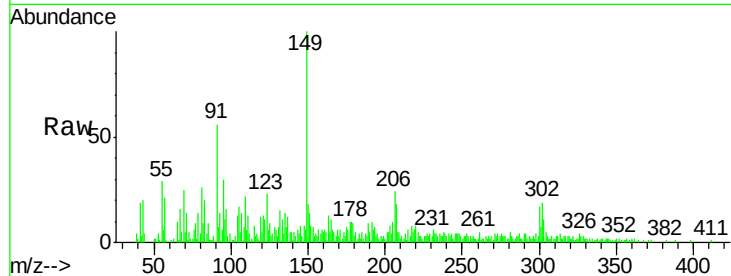




#81  
Butylbenzylphthalate  
Concen: 2.13 ng/ul  
RT: 20.30 min Scan# 2997  
Delta R.T. 0.00 min  
Lab File: BG018156.D  
Acq: 28 Jul 2015 20:57

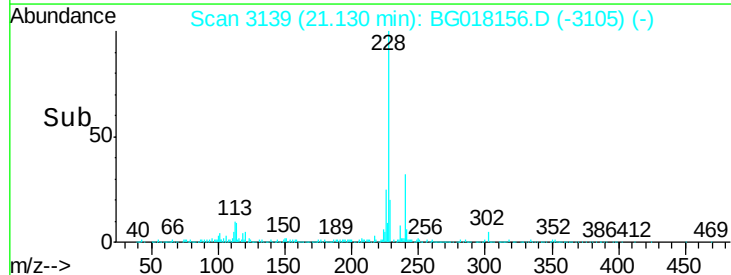
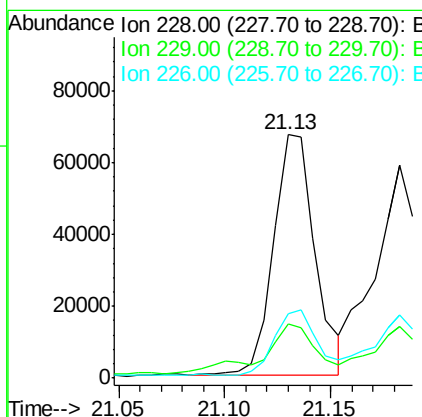
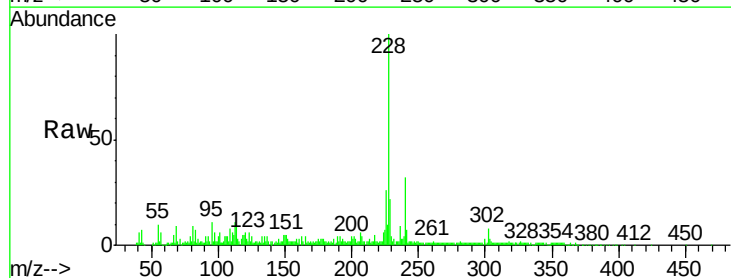
Instrument :  
BNA\_M  
ClientSampleId :  
C01N2

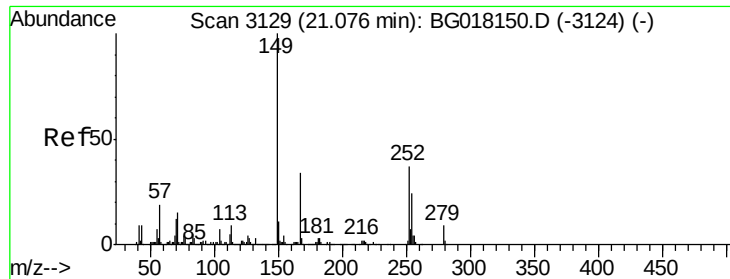
Tgt Ion:149 Resp: 15117  
Ion Ratio Lower Upper  
149 100  
91 56.2 51.1 76.7  
206 23.7 19.9 29.9



#83  
Benzo(a)anthracene  
Concen: 5.76 ng/ul  
RT: 21.13 min Scan# 3139  
Delta R.T. 0.00 min  
Lab File: BG018156.D  
Acq: 28 Jul 2015 20:57

Tgt Ion:228 Resp: 92289  
Ion Ratio Lower Upper  
228 100  
229 22.1 16.6 24.8  
226 26.4 21.1 31.7





#84

Bis(2-ethylhexyl)phthalate

Concen: 7.60 ng/ul

RT: 21.08 min Scan# 3130

Delta R.T. 0.00 min

Lab File: BG018156.D

Acq: 28 Jul 2015 20:57

Instrument :

BNA\_M

ClientSampleId :

C01N2

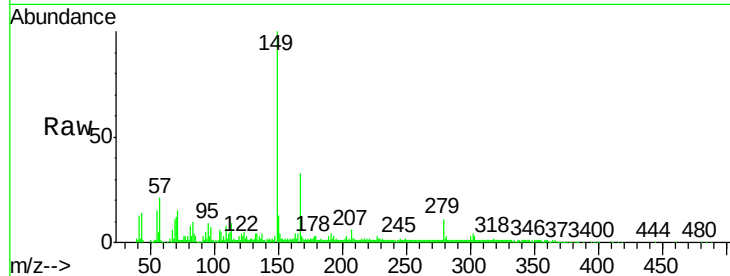
Tgt Ion:149 Resp: 77344

Ion Ratio Lower Upper

149 100

167 33.3 26.2 39.4

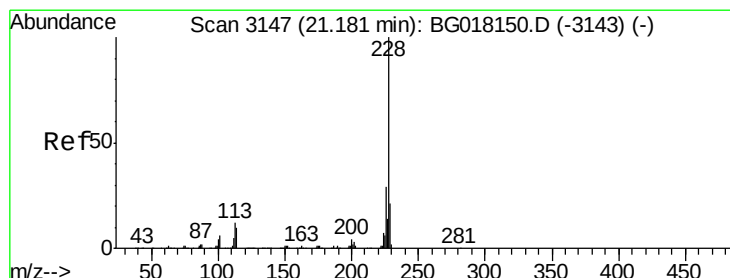
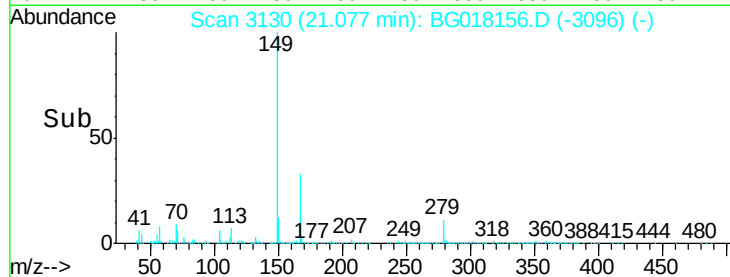
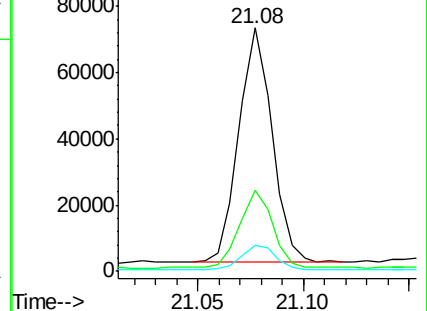
279 10.8 7.2 10.8#



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



#85

Chrysene

Concen: 6.19 ng/ul

RT: 21.13 min Scan# 3139

Delta R.T. -0.05 min

Lab File: BG018156.D

Acq: 28 Jul 2015 20:57

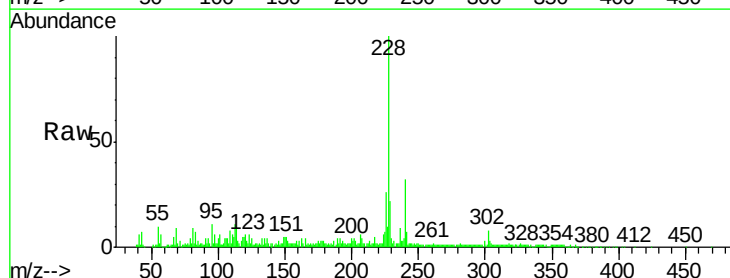
Tgt Ion:228 Resp: 93396

Ion Ratio Lower Upper

228 100

226 26.4 22.9 34.3

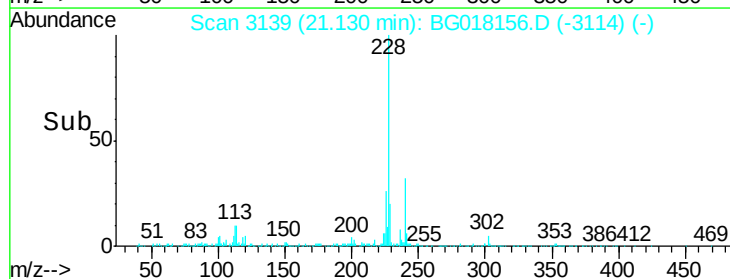
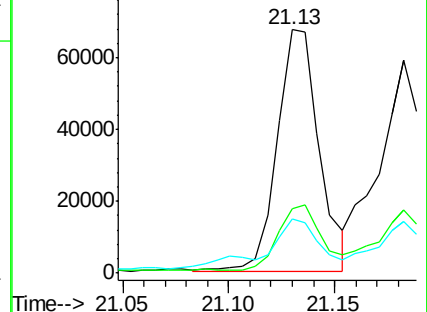
229 22.1 15.6 23.4

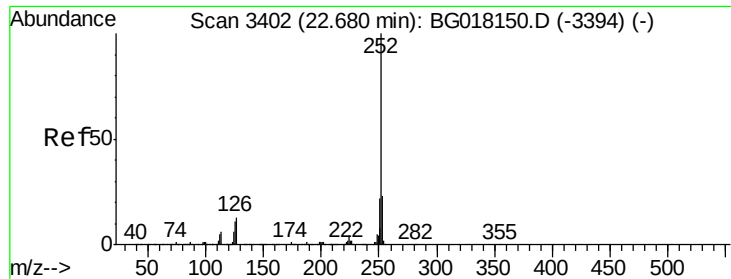


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#88

Benzo(b)fluoranthene

Concen: 8.49 ng/ul

RT: 22.69 min Scan# 3404

Delta R.T. 0.01 min

Lab File: BG018156.D

Acq: 28 Jul 2015 20:57

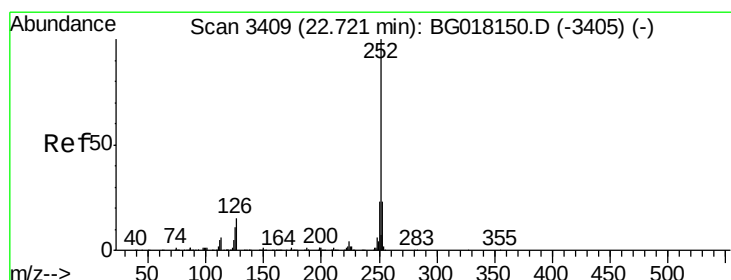
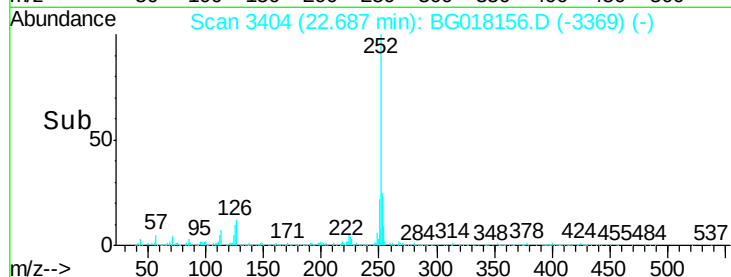
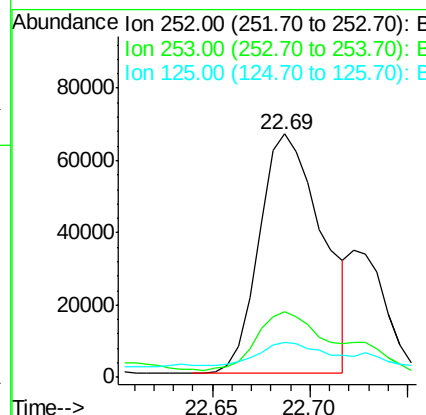
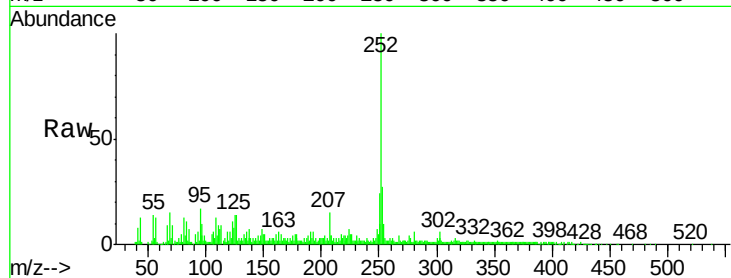
Instrument :

BNA\_M

ClientSampleId :

C01N2

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 148089 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 27.1  | 18.5  | 27.7   |
| 125      | 14.4  | 9.1   | 13.7#  |



#89

Benzo(k)fluoranthene

Concen: 8.77 ng/ul

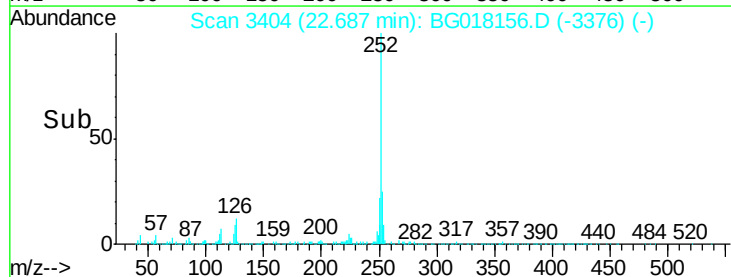
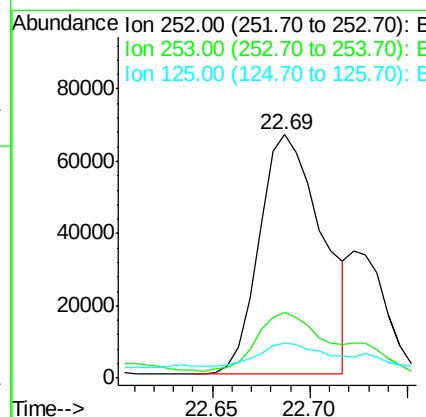
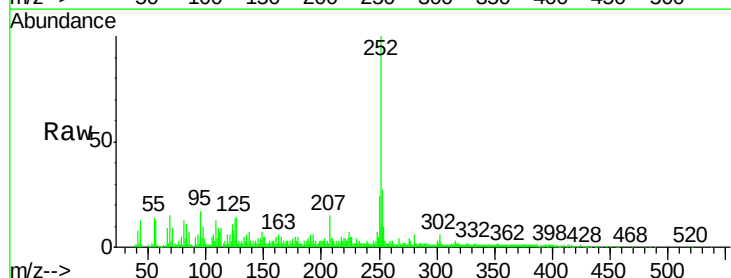
RT: 22.69 min Scan# 3404

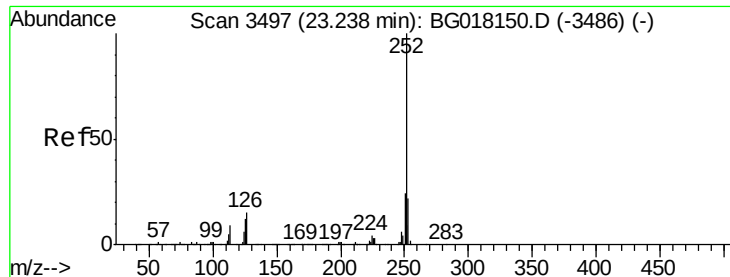
Delta R.T. -0.03 min

Lab File: BG018156.D

Acq: 28 Jul 2015 20:57

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 148089 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 27.1  | 17.8  | 26.8#  |
| 125      | 14.4  | 9.3   | 13.9#  |





#91

Benzo(a)pyrene

Concen: 5.30 ng/ul

RT: 23.25 min Scan# 3500

Delta R.T. 0.01 min

Lab File: BG018156.D

Acq: 28 Jul 2015 20:57

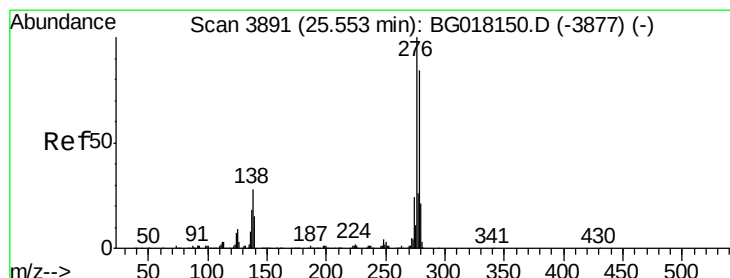
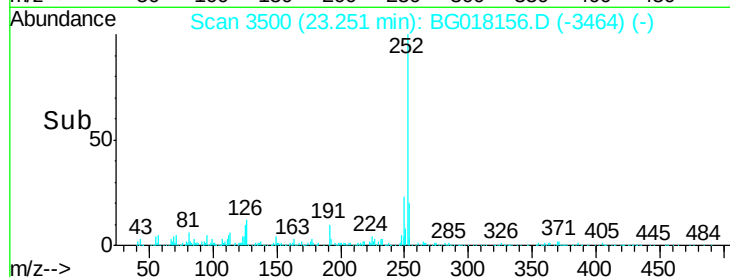
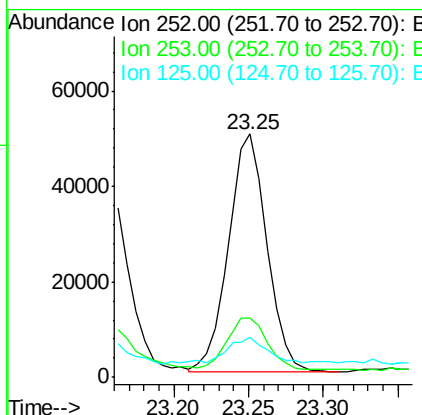
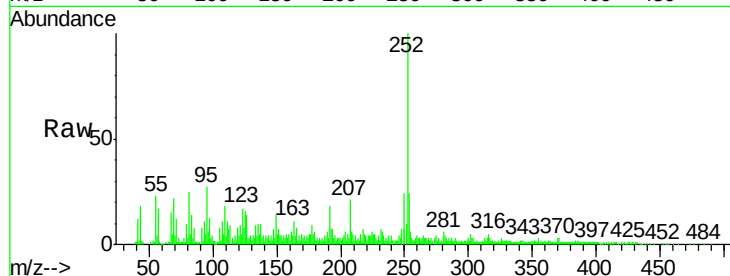
Instrument :

BNA\_M

ClientSampleId :

C01N2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 89605 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.4  | 18.0  | 27.0  |
| 125       | 16.2  | 10.2  | 15.2# |



#92

Indeno(1,2,3-cd)pyrene

Concen: 3.15 ng/ul

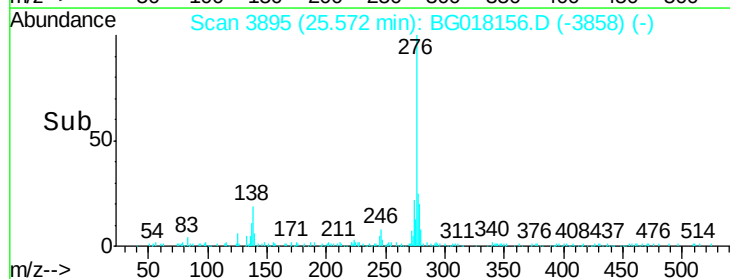
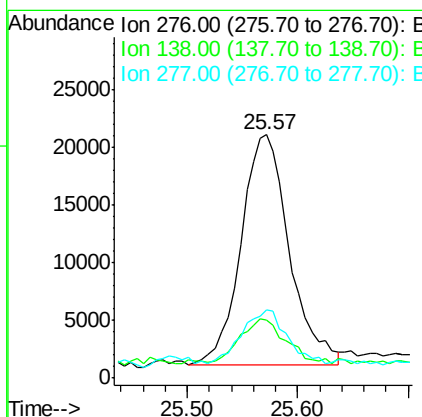
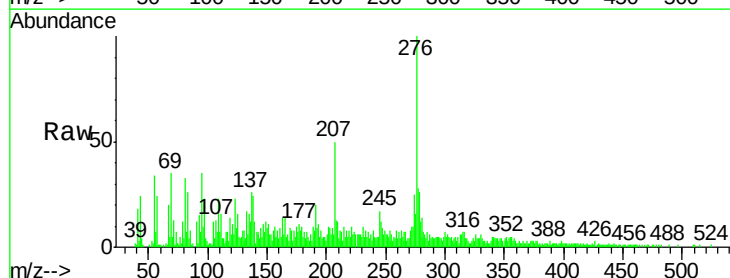
RT: 25.57 min Scan# 3895

Delta R.T. 0.02 min

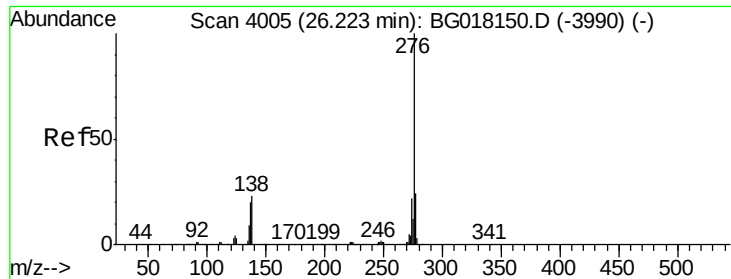
Lab File: BG018156.D

Acq: 28 Jul 2015 20:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 61351 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 23.9  | 22.6  | 33.8  |
| 277       | 28.1  | 19.8  | 29.8  |







#94

Benzo(g,h,i)perylene

Concen: 3.51 ng/ul

RT: 26.25 min Scan# 4011

Delta R.T. 0.03 min

Lab File: BG018156.D

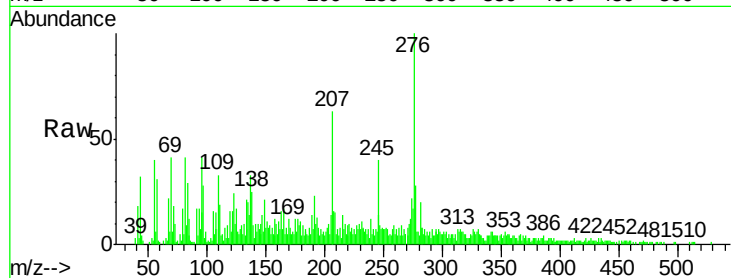
Acq: 28 Jul 2015 20:57

Instrument :

BNA\_M

ClientSampleId :

C01N2



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 56443 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 138      | 24.8  | 18.8  | 28.2  |
| 277      | 27.9  | 19.3  | 28.9  |

