

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051016\  
 Data File : BG021832.D  
 Acq On : 11 May 2016 1:22  
 Operator : UM/SJ  
 Sample : H2937-05  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9X83

Quant Time: May 11 03:34:16 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed May 11 02:37:33 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.18  | 152  | 74576    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.00 | 136  | 392411   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.81 | 164  | 246214   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.55 | 188  | 543197   | 20.00 | ng/ul | 0.00     |
| 76) Chrysene-d12          | 21.83 | 240  | 569692   | 20.00 | ng/ul | 0.00     |
| 84) Perylene-d12          | 25.17 | 264  | 571919   | 20.00 | ng/ul | 0.02     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.58  | 96  | 4636   | 3.00  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.33  | 99  | 90595  | 16.37 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.50  | 67  | 43287  | 15.78 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.71  | 132 | 81146  | 18.89 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.88  | 113 | 77532  | 16.68 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.35  | 128 | 42806  | 16.59 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.08 | 143 | 42478  | 26.07 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.62 | 165 | 85298  | 18.51 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.43 | 131 | 175    | 0.04  | ng/ul | 0.30 |
| 44) Dimethylphthalate-d6       | 14.20 | 166 | 302642 | 17.50 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.50 | 160 | 416999 | 16.98 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 15.00 | 143 | 35107  | 11.84 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.79 | 176 | 287000 | 15.76 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.90 | 200 | 29946  | 19.90 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.64 | 188 | 419670 | 15.87 | ng/ul | 0.00 |
| 77) Pyrene-d10                 | 19.92 | 212 | 442027 | 16.58 | ng/ul | 0.00 |
| 88) Benzo(a)pyrene-d12         | 24.93 | 264 | 402654 | 14.82 | ng/ul | 0.01 |

## Target Compounds

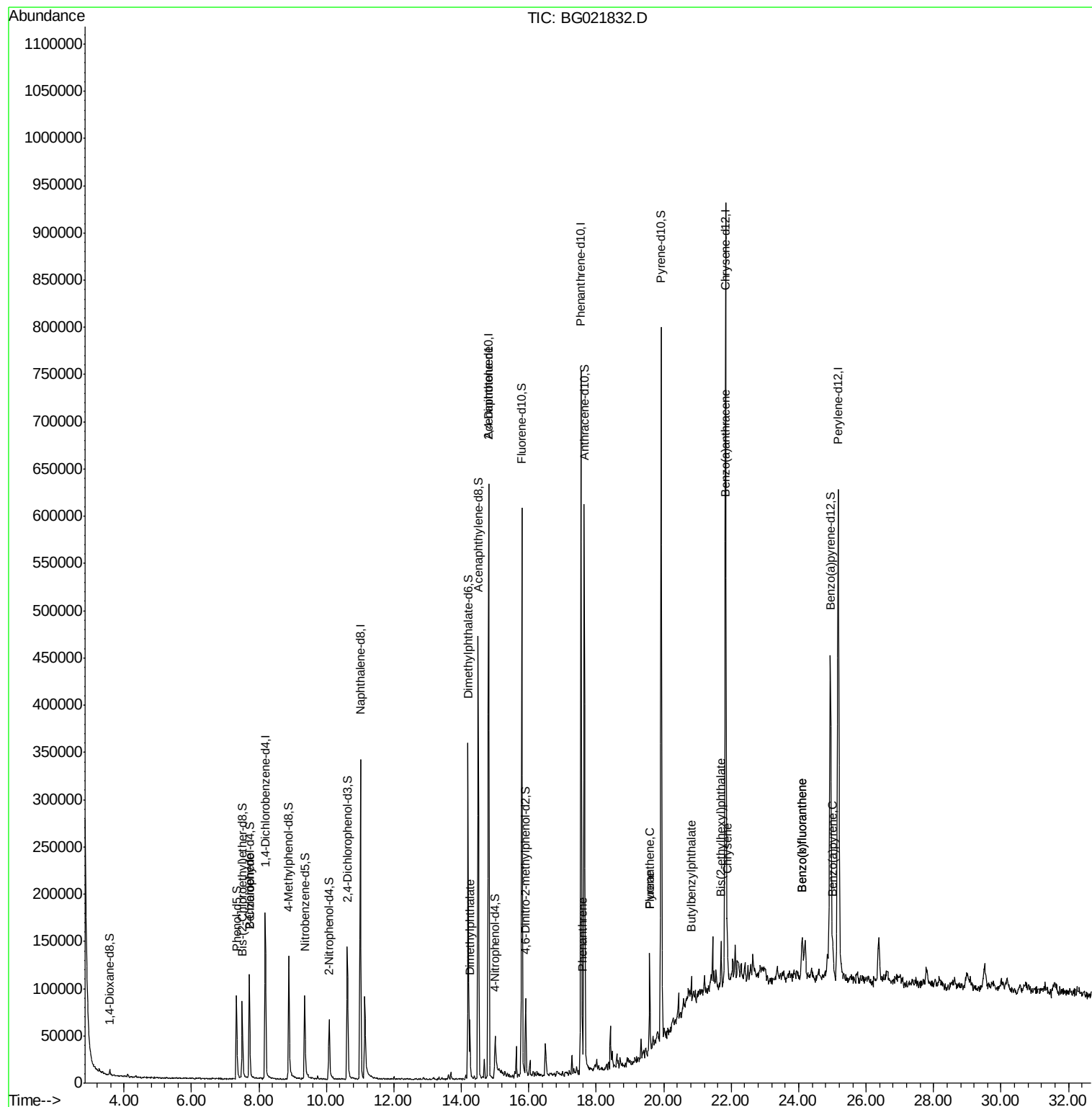
|                                |       |     |       |      |        | Qvalue |
|--------------------------------|-------|-----|-------|------|--------|--------|
| 4) Benzaldehyde                | 7.71  | 77  | 1245  | 2.07 | ng/ul  | 94     |
| 45) Dimethylphthalate          | 14.25 | 163 | 50536 | 2.87 | ng/ul  | 99     |
| 55) 2,4-Dinitrotoluene         | 14.81 | 165 | 32450 | 6.74 | ng/ul# | 25     |
| 70) Phenanthrene               | 17.58 | 178 | 33466 | 1.13 | ng/ul  | 95     |
| 75) Fluoranthene               | 19.59 | 202 | 73458 | 2.18 | ng/ul  | 96     |
| 78) Pyrene                     | 19.59 | 202 | 73458 | 2.23 | ng/ul  | 98     |
| 79) Butylbenzylphthalate       | 20.82 | 149 | 8365  | 1.15 | ng/ul# | 89     |
| 81) Benzo(a)anthracene         | 21.81 | 228 | 41341 | 1.30 | ng/ul  | 96     |
| 82) Bis(2-ethylhexyl)phthalate | 21.70 | 149 | 25664 | 2.16 | ng/ul  | 99     |
| 83) Chrysene                   | 21.87 | 228 | 37250 | 1.19 | ng/ul  | 96     |
| 86) Benzo(b)fluoranthene       | 24.11 | 252 | 64840 | 1.98 | ng/ul# | 93     |
| 87) Benzo(k)fluoranthene       | 24.11 | 252 | 64840 | 1.85 | ng/ul# | 93     |
| 89) Benzo(a)pyrene             | 25.01 | 252 | 38922 | 1.19 | ng/ul# | 87     |

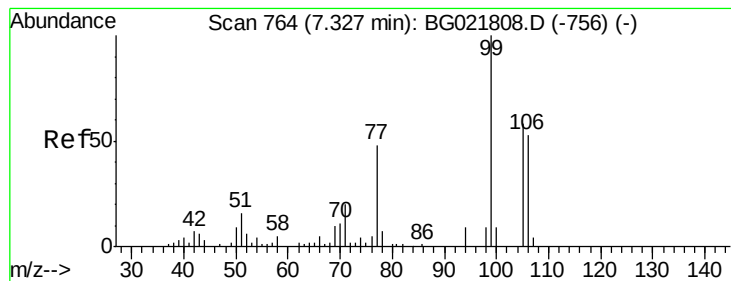
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 11 03:34:16 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed May 11 02:37:33 2016  
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 2.07 ng/ul

RT: 7.71 min Scan# 830

Delta R.T. 0.39 min

Lab File: BG021832.D

Acq: 11 May 2016 1:22

Instrument :

BNA\_G

ClientSampled :

D9X83

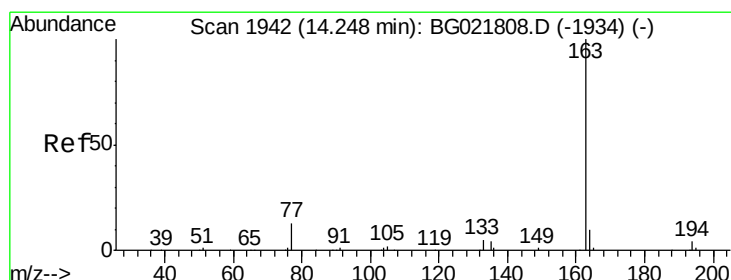
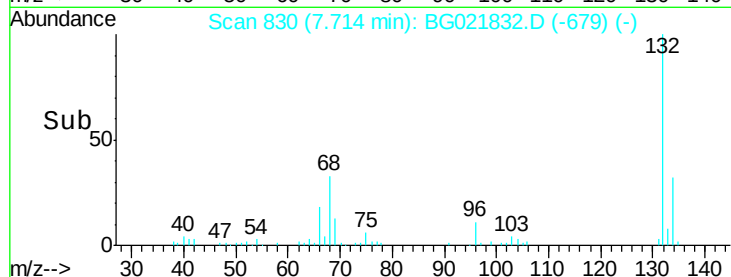
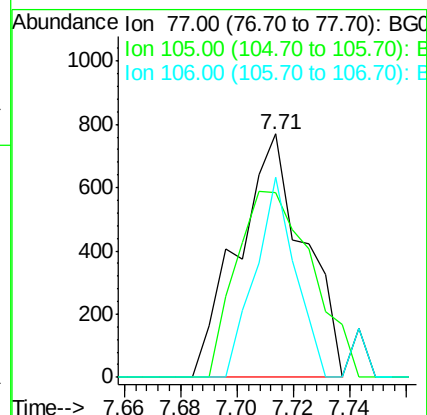
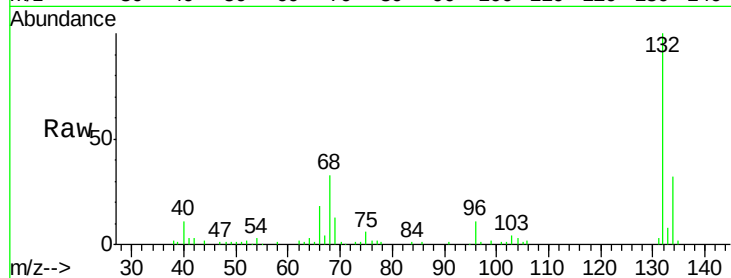
Tgt Ion: 77 Resp: 1245

Ion Ratio Lower Upper

77 100

105 75.7 68.5 102.7

106 82.3 65.0 97.4



#45

Dimethylphthalate

Concen: 2.87 ng/ul

RT: 14.25 min Scan# 1942

Delta R.T. -0.00 min

Lab File: BG021832.D

Acq: 11 May 2016 1:22

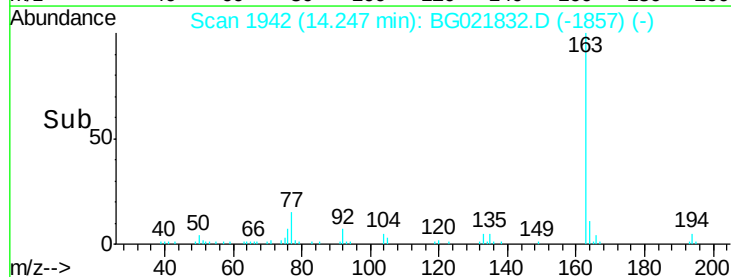
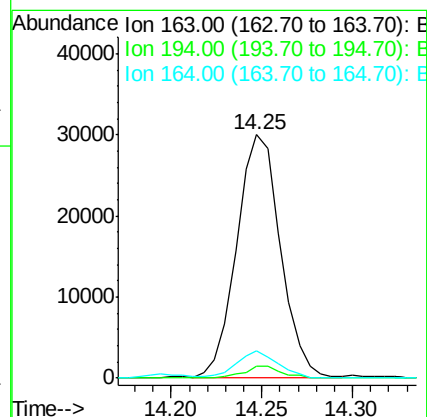
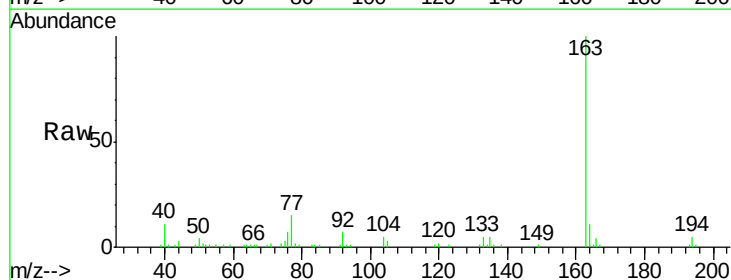
Tgt Ion: 163 Resp: 50536

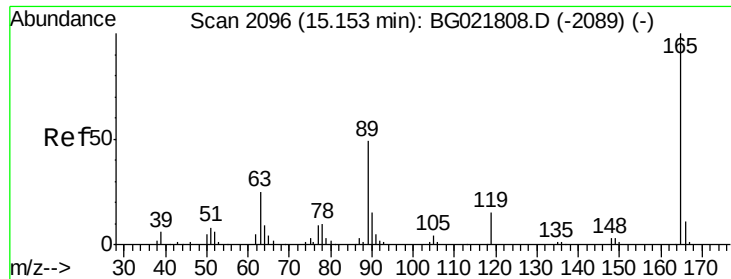
Ion Ratio Lower Upper

163 100

194 4.8 3.9 5.9

164 11.3 8.7 13.1

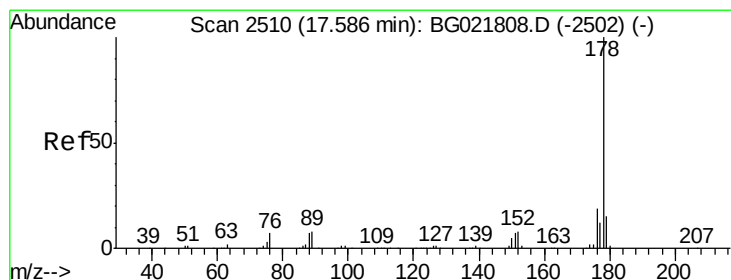
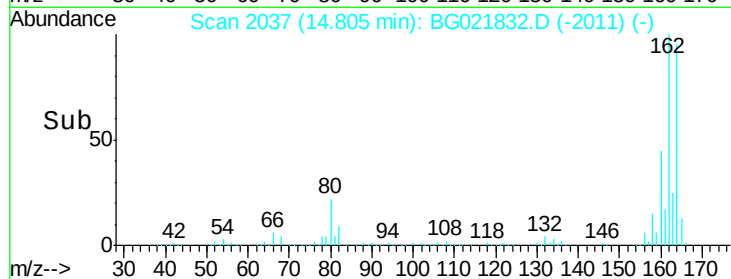
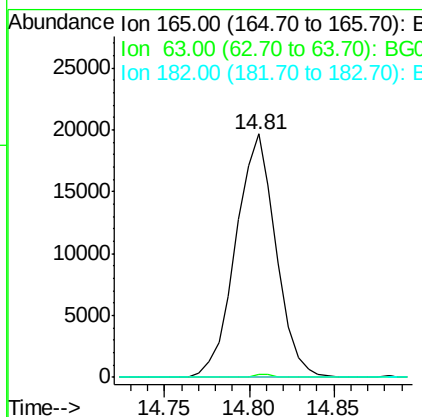
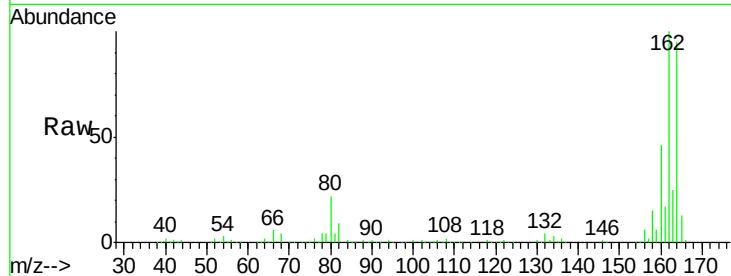




#55  
 2,4-Dinitrotoluene  
 Concen: 6.74 ng/ul  
 RT: 14.81 min Scan# 2037  
 Delta R.T. -0.35 min  
 Lab File: BG021832.D  
 Acq: 11 May 2016 1:22

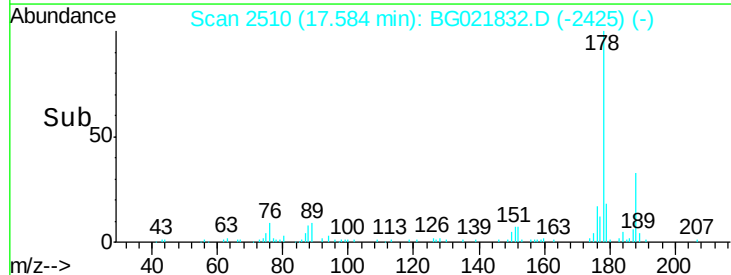
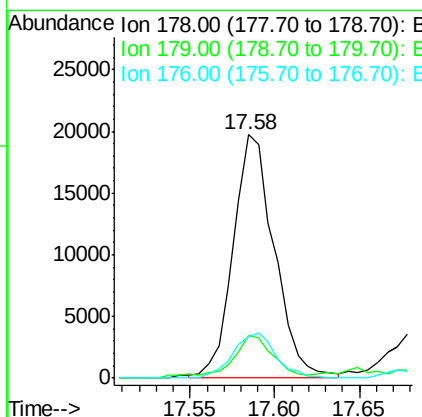
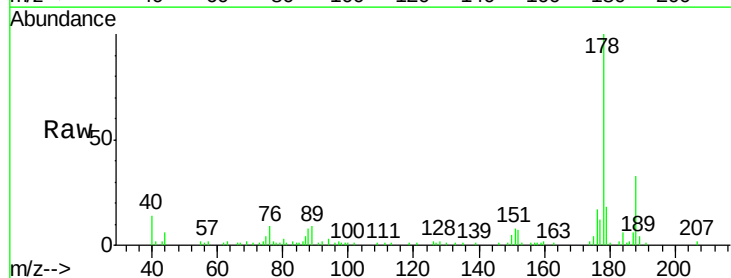
Instrument :  
 BNA\_G  
 ClientSampled :  
 D9X83

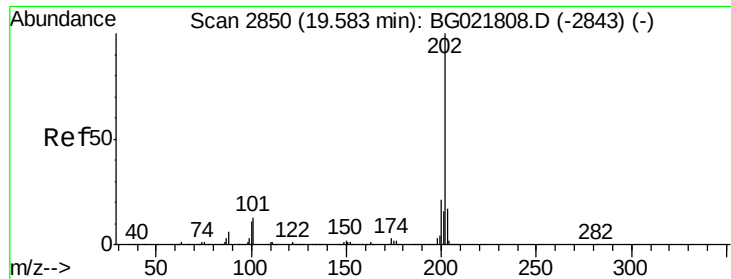
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 48.1  | 72.1# |
| 182     | 0.0   | 2.2   | 3.2#  |



#70  
 Phenanthrene  
 Concen: 1.13 ng/ul  
 RT: 17.58 min Scan# 2510  
 Delta R.T. -0.00 min  
 Lab File: BG021832.D  
 Acq: 11 May 2016 1:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.7  | 11.8  | 17.8  |
| 176     | 17.1  | 14.8  | 22.2  |





#75

Fluoranthene

Concen: 2.18 ng/ul

RT: 19.59 min Scan# 2851

Delta R.T. 0.00 min

Lab File: BG021832.D

Acq: 11 May 2016 1:22

Instrument :

BNA\_G

ClientSampleId :

D9X83

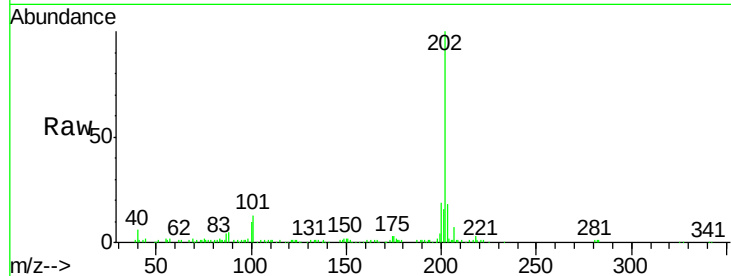
Tgt Ion:202 Resp: 73458

Ion Ratio Lower Upper

202 100

101 12.7 8.9 13.3

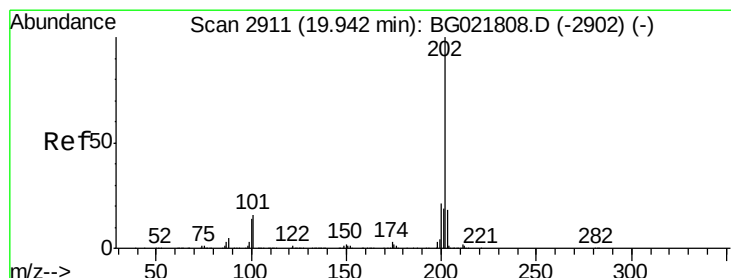
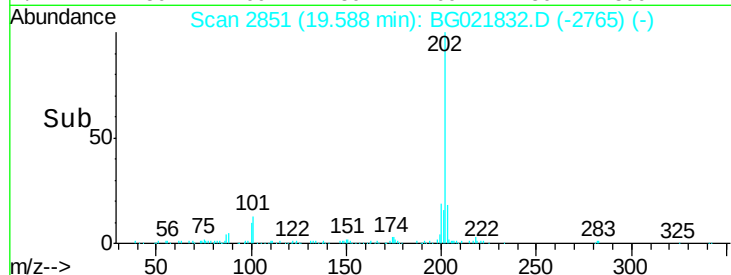
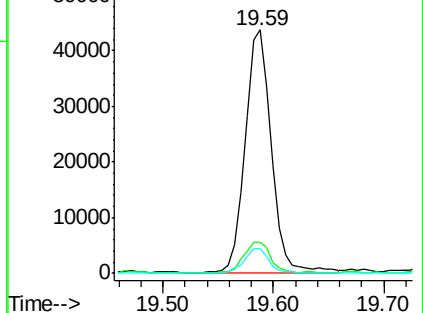
100 10.3 7.0 10.4



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



#78

Pyrene

Concen: 2.23 ng/ul

RT: 19.59 min Scan# 2851

Delta R.T. -0.35 min

Lab File: BG021832.D

Acq: 11 May 2016 1:22

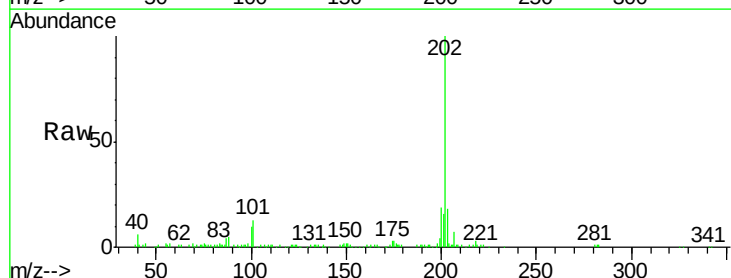
Tgt Ion:202 Resp: 73458

Ion Ratio Lower Upper

202 100

101 12.7 9.8 14.8

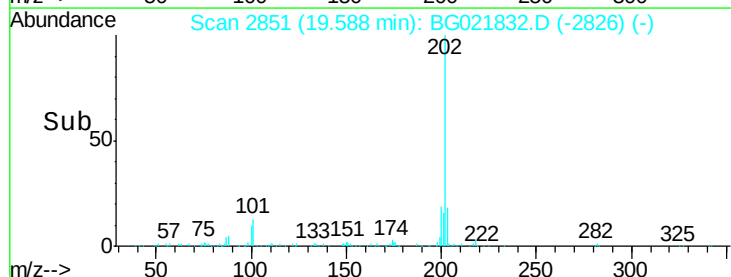
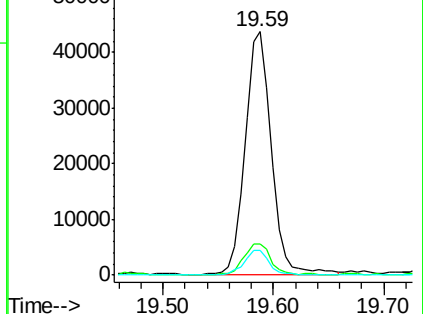
100 10.3 9.3 13.9

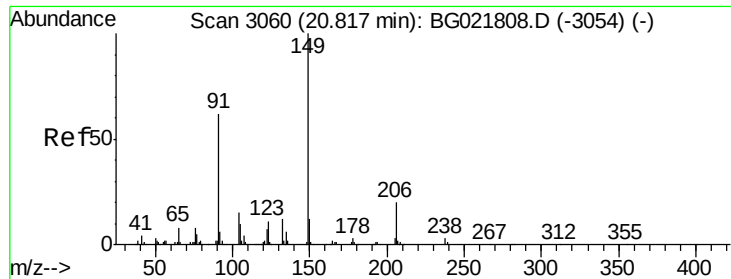


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

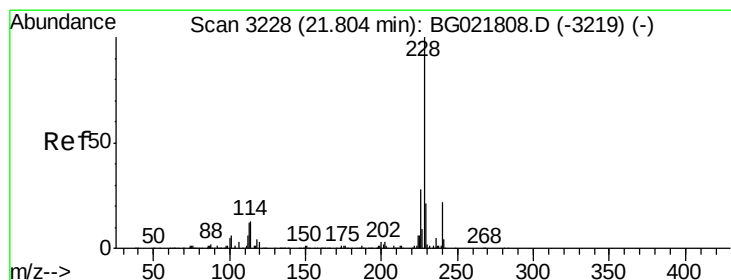
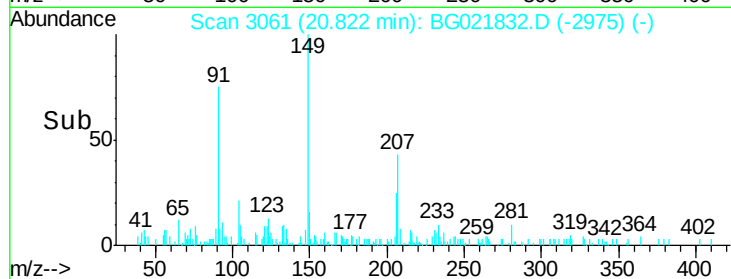
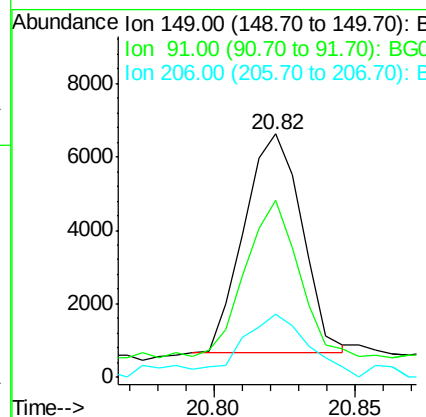
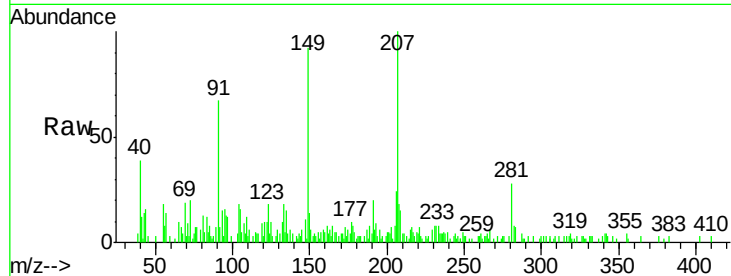




#79  
Butylbenzylphthalate  
Concen: 1.15 ng/ul  
RT: 20.82 min Scan# 3061  
Delta R.T. 0.00 min  
Lab File: BG021832.D  
Acq: 11 May 2016 1:22

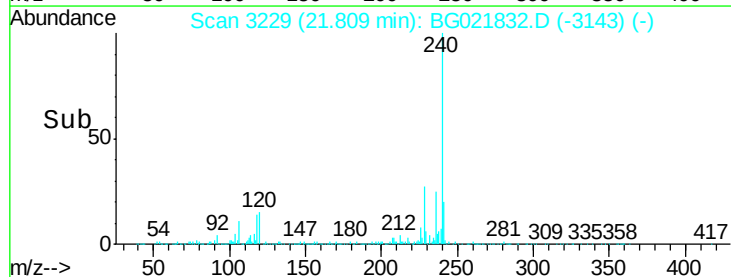
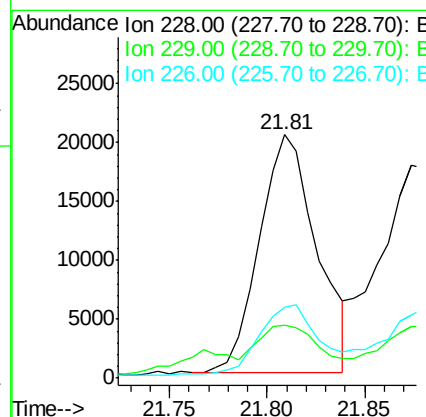
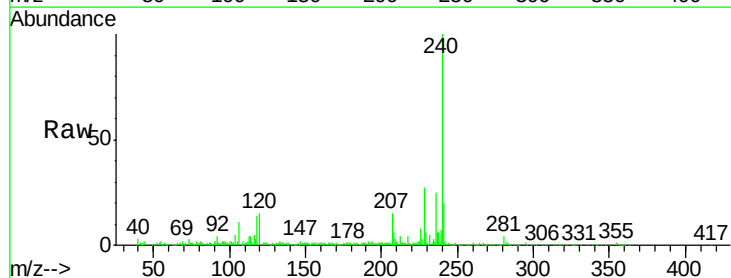
Instrument :  
BNA\_G  
ClientSampleId :  
D9X83

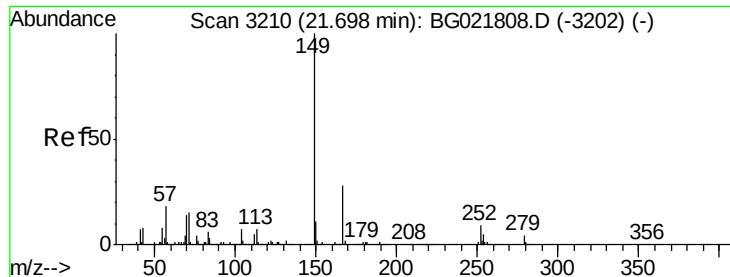
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 72.7  | 65.8  | 98.8  |
| 206     | 25.8  | 15.5  | 23.3  |



#81  
Benzo(a)anthracene  
Concen: 1.30 ng/ul  
RT: 21.81 min Scan# 3229  
Delta R.T. 0.00 min  
Lab File: BG021832.D  
Acq: 11 May 2016 1:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.9  | 16.6  | 25.0  |
| 226     | 29.0  | 21.0  | 31.4  |





#82

Bis(2-ethylhexyl)phthalate

Concen: 2.16 ng/ul

RT: 21.70 min Scan# 3210

Delta R.T. -0.00 min

Lab File: BG021832.D

Acq: 11 May 2016 1:22

Instrument :

BNA\_G

ClientSampleId :

D9X83

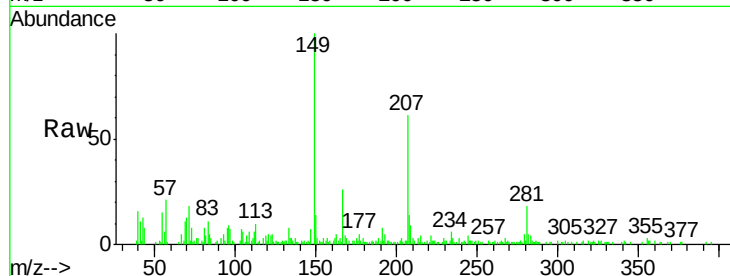
Tgt Ion:149 Resp: 25664

Ion Ratio Lower Upper

149 100

167 25.9 20.5 30.7

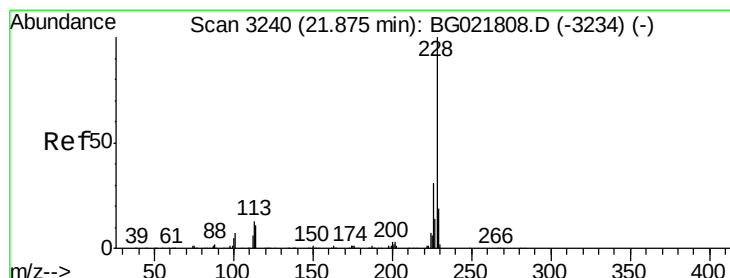
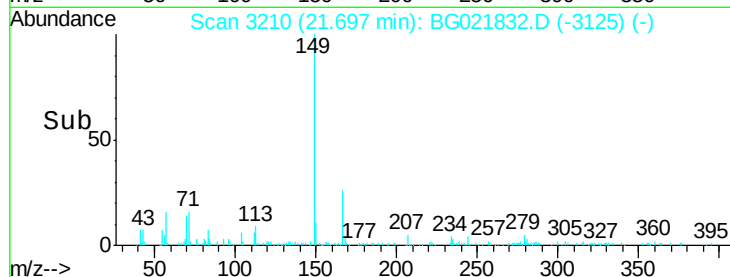
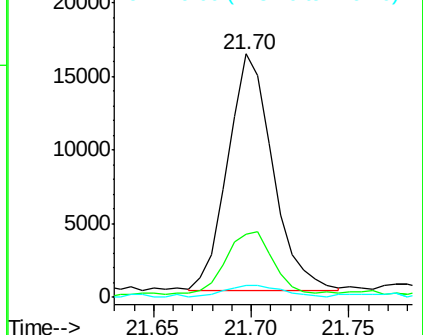
279 5.1 3.7 5.5



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



#83

Chrysene

Concen: 1.19 ng/ul

RT: 21.87 min Scan# 3240

Delta R.T. -0.00 min

Lab File: BG021832.D

Acq: 11 May 2016 1:22

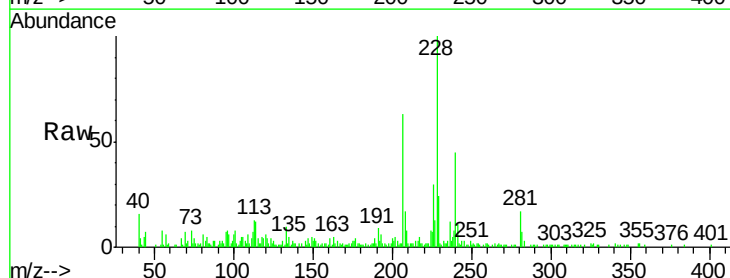
Tgt Ion:228 Resp: 37250

Ion Ratio Lower Upper

228 100

226 30.0 23.4 35.2

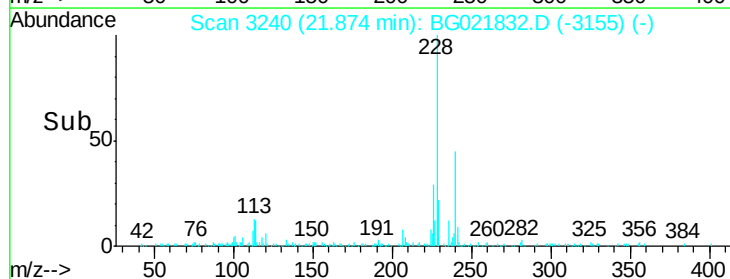
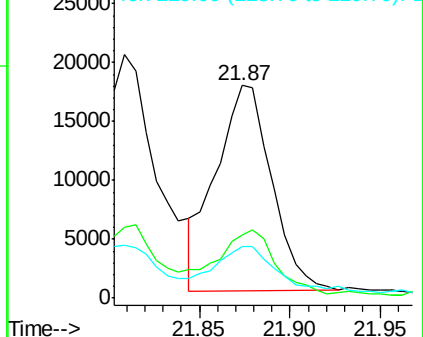
229 24.1 16.2 24.2

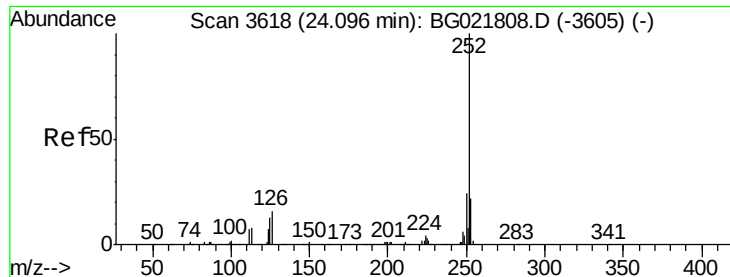


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86

Benzo(b)fluoranthene

Concen: 1.98 ng/ul

RT: 24.11 min Scan# 3620

Delta R.T. 0.01 min

Lab File: BG021832.D

Acq: 11 May 2016 1:22

Instrument :

BNA\_G

ClientSampleId :

D9X83

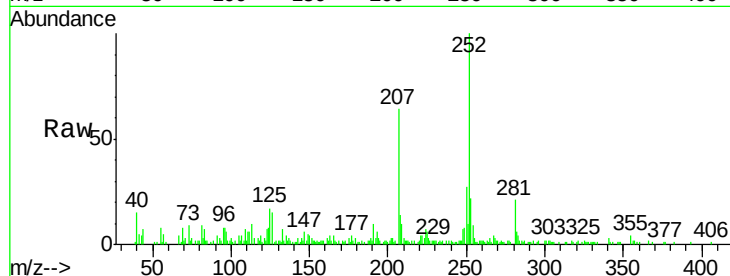
Tgt Ion:252 Resp: 64840

Ion Ratio Lower Upper

252 100

253 21.7 18.1 27.1

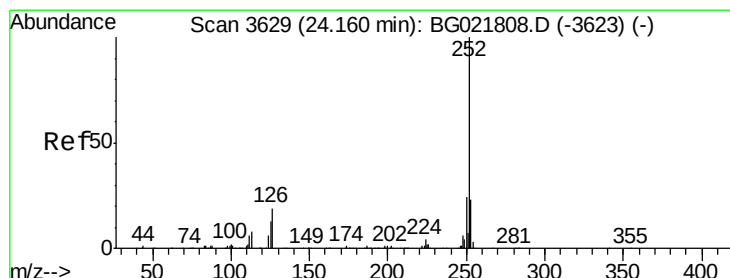
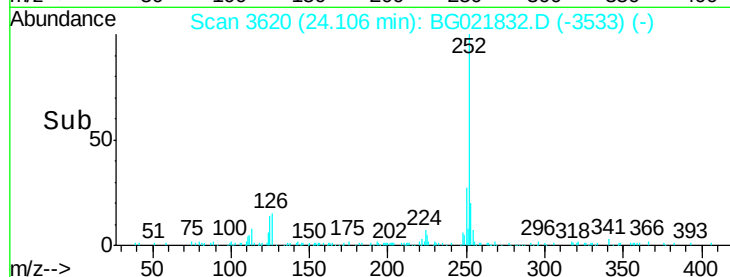
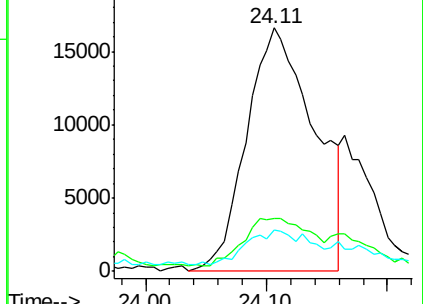
125 16.8 7.6 11.4#



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



#87

Benzo(k)fluoranthene

Concen: 1.85 ng/ul

RT: 24.11 min Scan# 3620

Delta R.T. -0.05 min

Lab File: BG021832.D

Acq: 11 May 2016 1:22

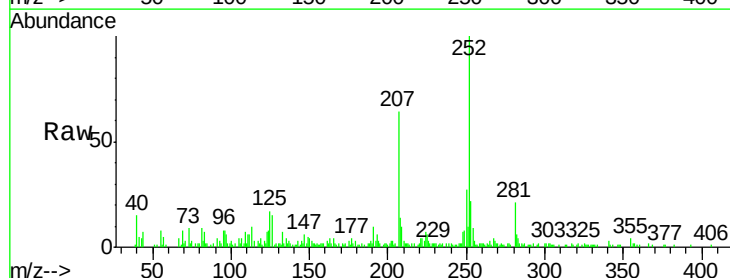
Tgt Ion:252 Resp: 64840

Ion Ratio Lower Upper

252 100

253 21.7 17.8 26.8

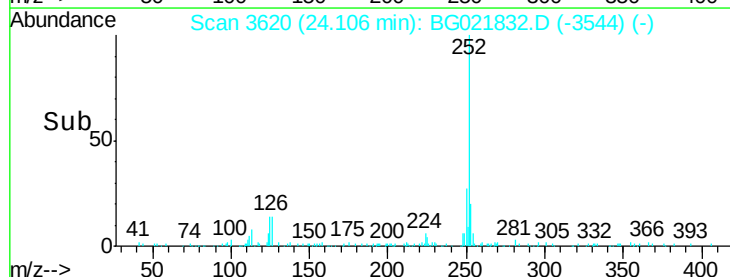
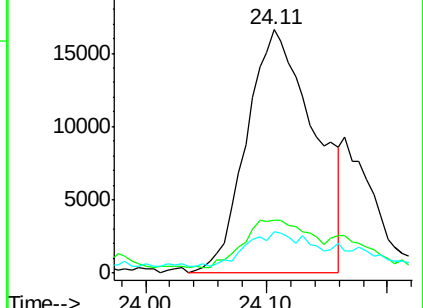
125 16.8 7.7 11.5#



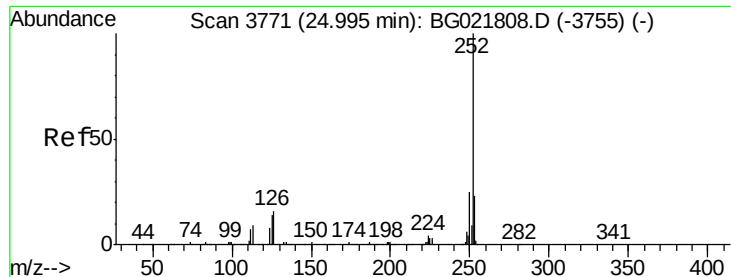
Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E







#89

Benzo(a)pyrene

Concen: 1.19 ng/ul

RT: 25.01 min Scan# 3774

Delta R.T. 0.02 min

Lab File: BG021832.D

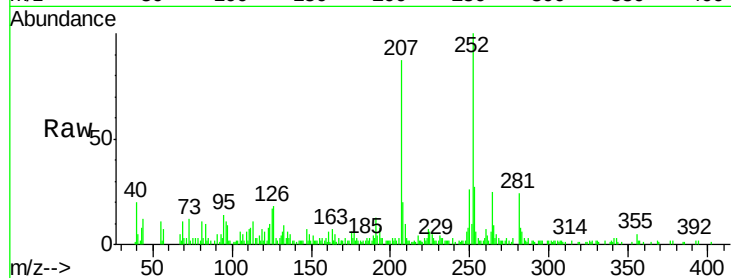
Acq: 11 May 2016 1:22

Instrument :

BNA\_G

ClientSampleId :

D9X83



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 38922 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.2  | 17.4  | 26.0# |
| 125       | 16.7  | 8.2   | 12.2# |

