

Data Path : Z:\HPCHEM1\BNA G\DATA\BG092515\  
 Data File : BG018928.D  
 Acq On : 27 Sep 2015 00:45  
 Operator : UM/NP  
 Sample : G3798-19  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9G73

Quant Time: Sep 28 04:37:01 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG091015.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Sep 28 04:33:51 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.00  | 152  | 58757    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.79 | 136  | 261295   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.62 | 164  | 165084   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.36 | 188  | 379923   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.62 | 240  | 384793   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.80 | 264  | 401378   | 20.00 | ng/ul | 0.02     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.44  | 96  | 2307   | 1.89  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.17  | 99  | 64785  | 13.43 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.32  | 67  | 37184  | 13.30 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.53  | 132 | 53511  | 14.64 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.71  | 113 | 51733  | 13.21 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.15  | 128 | 29352  | 14.83 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.88  | 143 | 32493  | 16.32 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.42 | 165 | 59491  | 14.19 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.93 | 131 | 61615  | 12.63 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.02 | 166 | 202254 | 15.22 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.31 | 160 | 281186 | 17.86 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.83 | 143 | 22814  | 8.95  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.60 | 176 | 210886 | 18.15 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.73 | 200 | 13859  | 7.71  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.46 | 188 | 230672 | 13.79 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.74 | 212 | 325525 | 18.39 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.58 | 264 | 291401 | 14.92 | ng/ul | 0.02 |

## Target Compounds

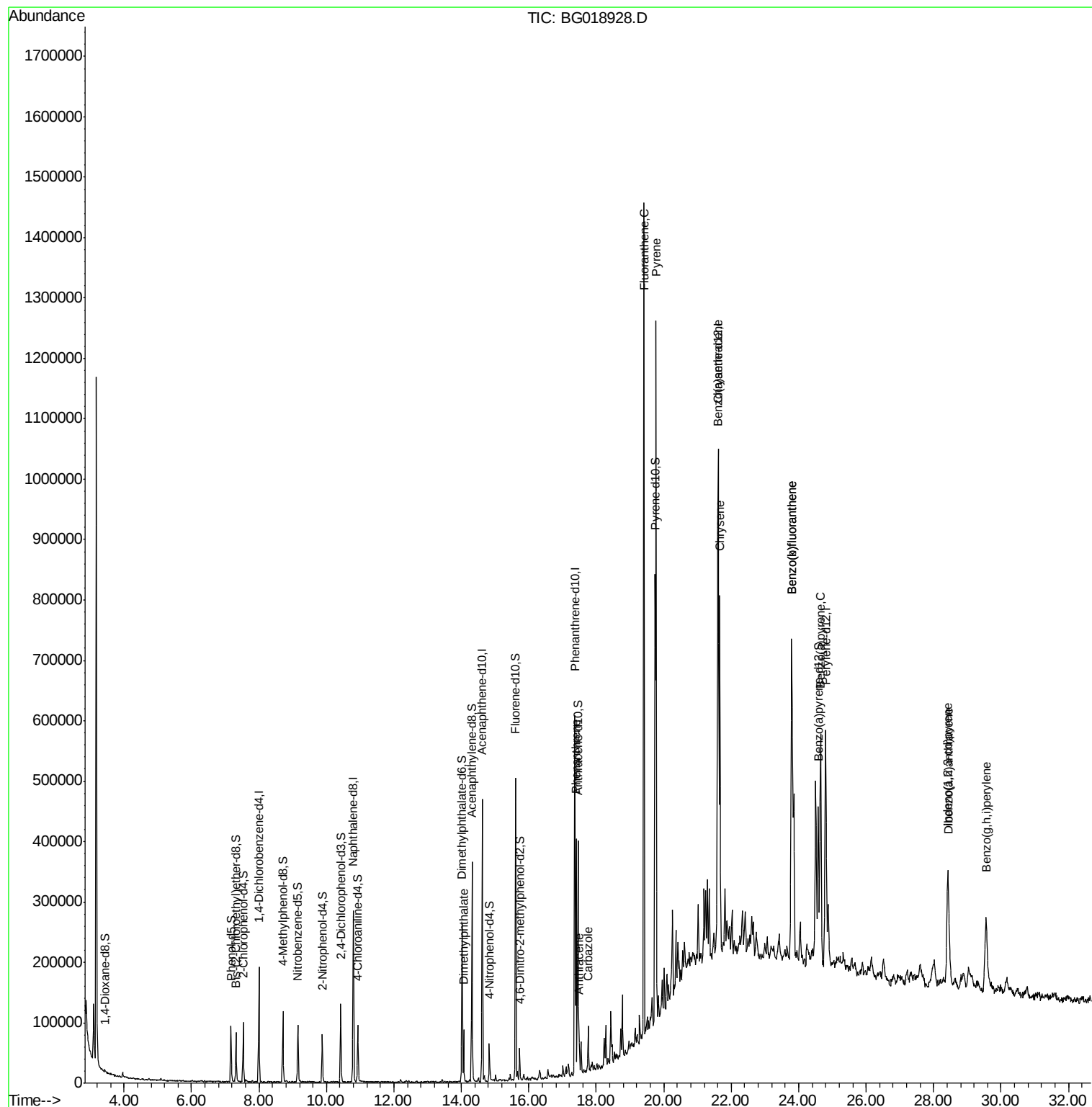
|                            |       |     |        |       |        | Ovalue |
|----------------------------|-------|-----|--------|-------|--------|--------|
| 45) Dimethylphthalate      | 14.07 | 163 | 66286  | 5.15  | ng/ul  | 96     |
| 70) Phenanthrene           | 17.40 | 178 | 256579 | 13.28 | ng/ul  | 99     |
| 72) Anthracene             | 17.49 | 178 | 35502  | 1.83  | ng/ul  | 97     |
| 75) Carbazole              | 17.76 | 167 | 47274  | 2.75  | ng/ul  | 98     |
| 77) Fluoranthene           | 19.41 | 202 | 868124 | 40.55 | ng/ul  | 98     |
| 80) Pyrene                 | 19.77 | 202 | 718316 | 31.75 | ng/ul  | 98     |
| 83) Benzo(a)anthracene     | 21.60 | 228 | 339080 | 15.89 | ng/ul  | 96     |
| 85) Chrysene               | 21.66 | 228 | 423465 | 21.52 | ng/ul  | 97     |
| 88) Benzo(b)fluoranthene   | 23.79 | 252 | 629297 | 27.73 | ng/ul  | 99     |
| 89) Benzo(k)fluoranthene   | 23.79 | 252 | 629297 | 28.95 | ng/ul  | 99     |
| 91) Benzo(a)pyrene         | 24.65 | 252 | 387777 | 17.98 | ng/ul  | 98     |
| 92) Indeno(1,2,3-cd)pyrene | 28.43 | 276 | 321582 | 12.86 | ng/ul  | 98     |
| 93) Dibenzo(a,h)anthracene | 28.44 | 278 | 23543  | 1.17  | ng/ul# | 89     |
| 94) Benzo(g,h,i)perylene   | 29.55 | 276 | 263732 | 12.63 | ng/ul  | 97     |

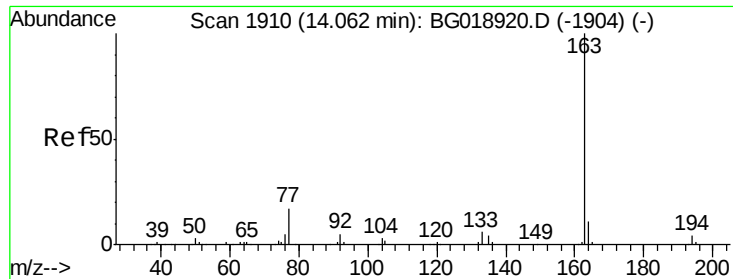
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 33 Sample Multiplier: 1

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BNA\_G  
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D9G73

Quant Time: Sep 28 04:37:01 2015  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG091015.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Sep 28 04:33:51 2015  
Response via : Initial Calibration





#45

Dimethylphthalate

Concen: 5.15 ng/ul

RT: 14.07 min Scan# 1911

Delta R.T. 0.00 min

Lab File: BG018928.D

Acq: 27 Sep 2015 00:45

Instrument :

BNA\_G

ClientSampleId :

D9G73

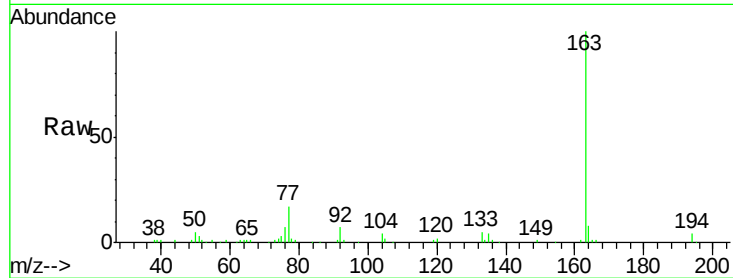
Tot Ion:163 Resp: 66286

Ion Ratio Lower Upper

163 100

194 4.3 2.9 4.3

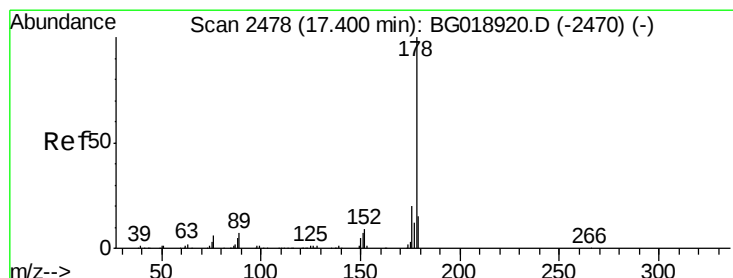
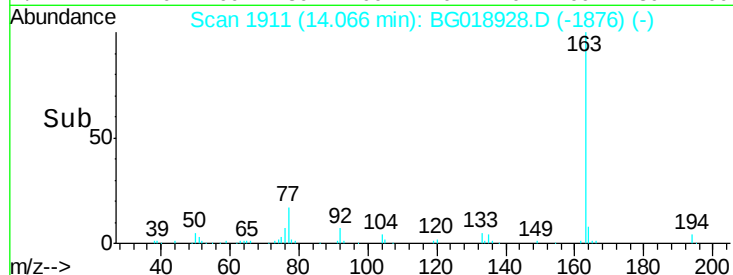
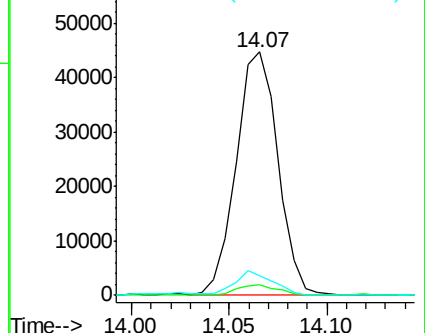
164 8.1 7.7 11.5



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: 13.28 ng/ul

RT: 17.40 min Scan# 2479

Delta R.T. 0.00 min

Lab File: BG018928.D

Acq: 27 Sep 2015 00:45

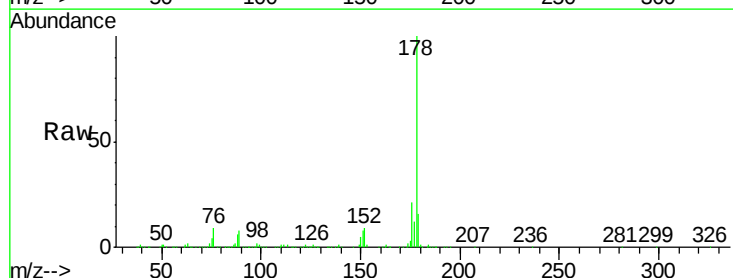
Tgt Ion:178 Resp: 256579

Ion Ratio Lower Upper

178 100

179 16.4 13.7 20.5

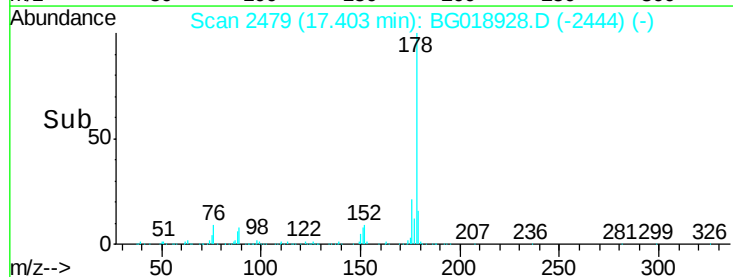
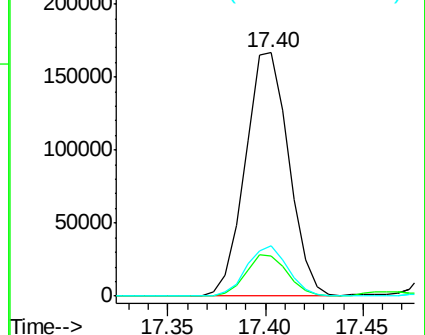
176 20.7 16.6 24.8

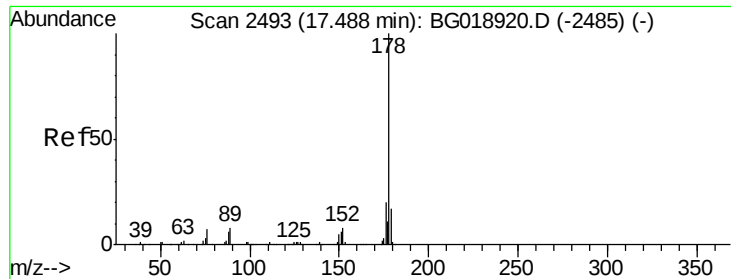


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Anthracene

Concen: 1.83 ng/ul

RT: 17.49 min Scan# 2494

Delta R.T. 0.00 min

Lab File: BG018928.D

Acq: 27 Sep 2015 00:45

Instrument :

BNA\_G

ClientSampleId :

D9G73

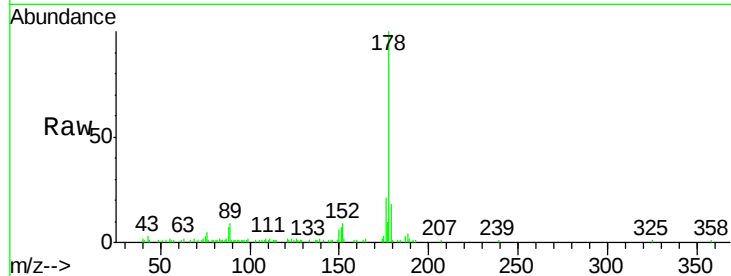
Tot Ion:178 Resp: 35502

Ion Ratio Lower Upper

178 100

179 17.7 13.0 19.4

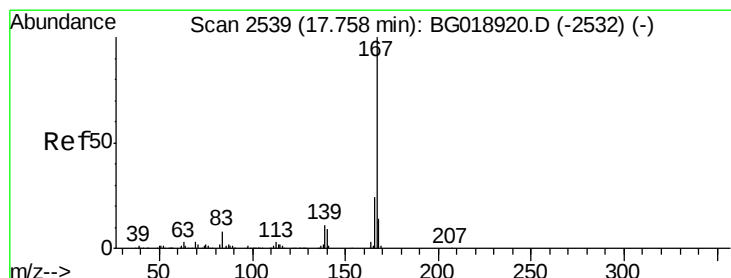
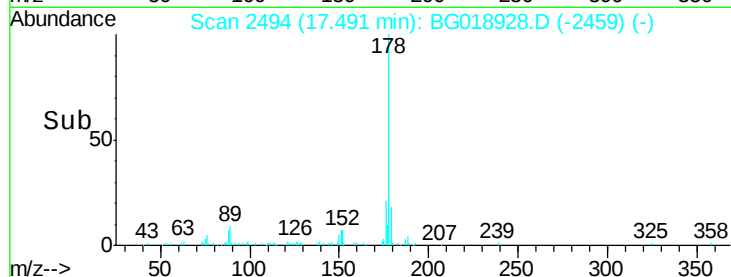
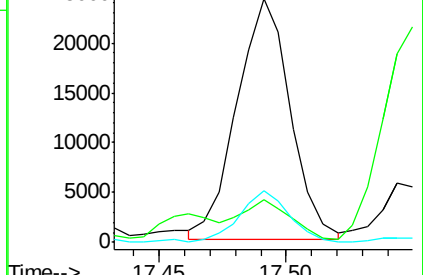
176 21.0 16.0 24.0



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



#75

Carbazole

Concen: 2.75 ng/ul

RT: 17.76 min Scan# 2540

Delta R.T. 0.00 min

Lab File: BG018928.D

Acq: 27 Sep 2015 00:45

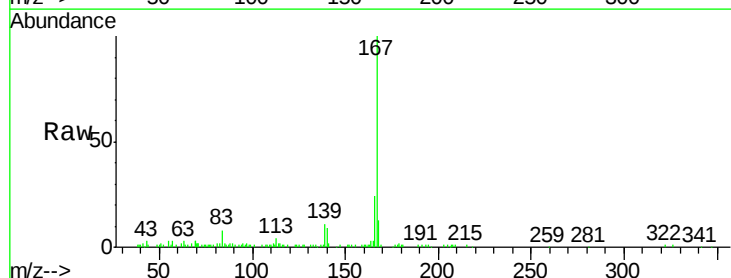
Tgt Ion:167 Resp: 47274

Ion Ratio Lower Upper

167 100

166 24.1 18.9 28.3

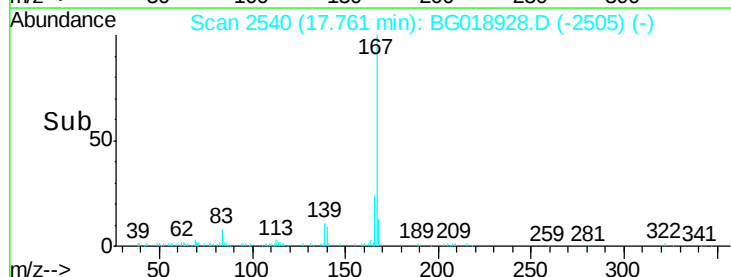
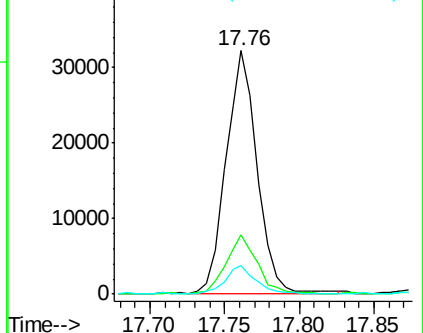
139 11.5 10.1 15.1

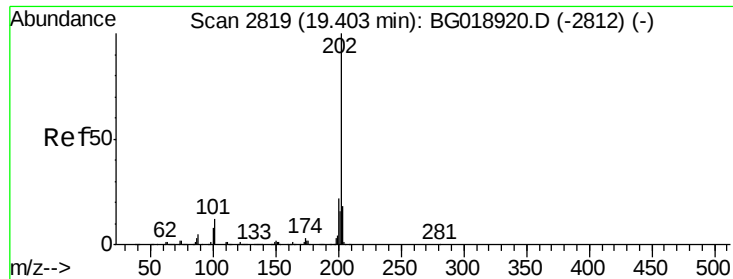


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

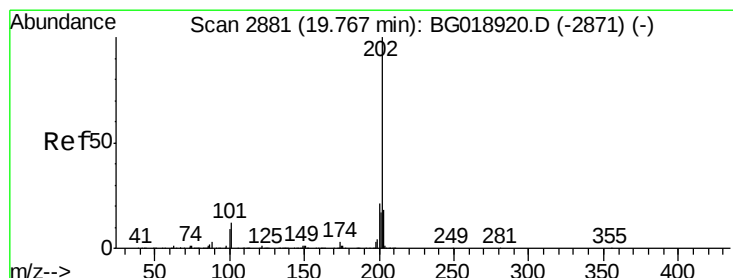
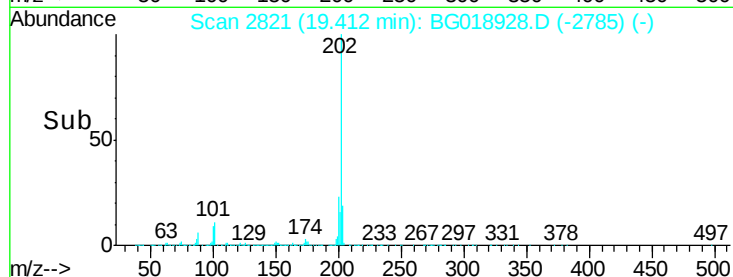
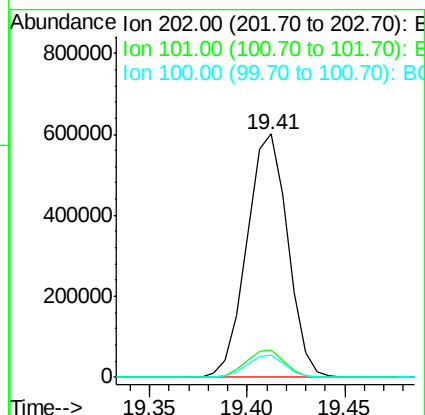
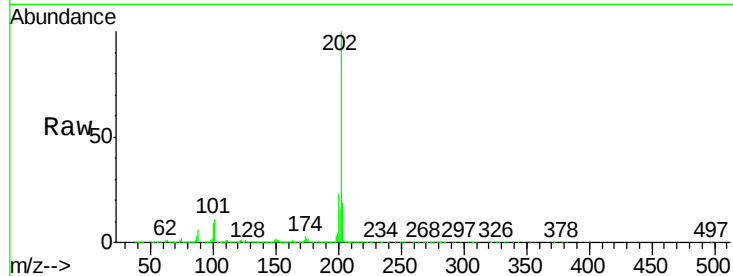




#77  
 Fluoranthene  
 Concen: 40.55 ng/ul  
 RT: 19.41 min Scan# 2821  
 Delta R.T. 0.01 min  
 Lab File: BG018928.D  
 Acq: 27 Sep 2015 00:45

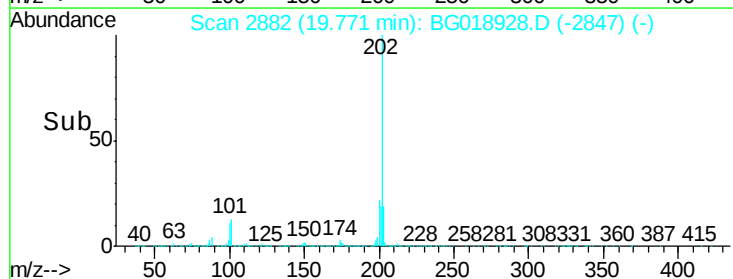
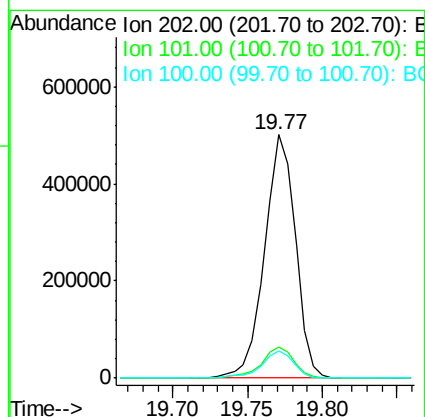
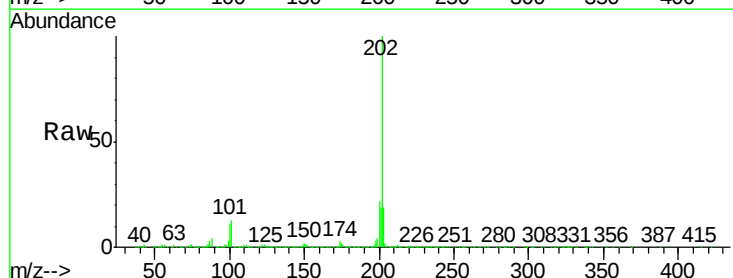
Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9G73

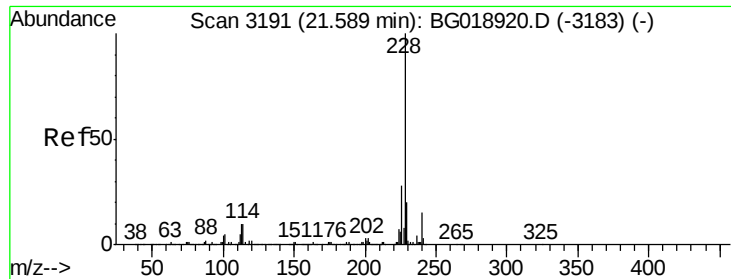
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.3  | 9.7   | 14.5  |
| 100     | 8.9   | 7.8   | 11.8  |



#80  
 Pyrene  
 Concen: 31.75 ng/ul  
 RT: 19.77 min Scan# 2882  
 Delta R.T. 0.00 min  
 Lab File: BG018928.D  
 Acq: 27 Sep 2015 00:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.7  | 11.0  | 16.4  |
| 100     | 11.4  | 9.8   | 14.6  |





#83

Benzo(a)anthracene

Concen: 15.89 ng/ul

RT: 21.60 min Scan# 3193

Delta R.T. 0.01 min

Lab File: BG018928.D

Acq: 27 Sep 2015 00:45

Instrument :

BNA\_G

ClientSampled :

D9G73

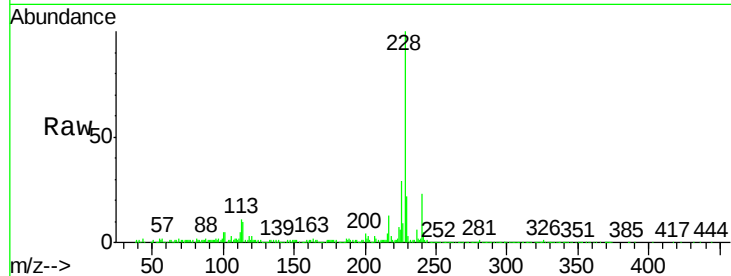
Tot Ion:228 Resp: 339080

Ion Ratio Lower Upper

228 100

229 21.8 15.5 23.3

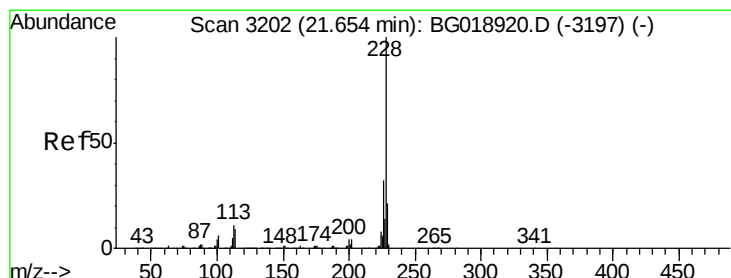
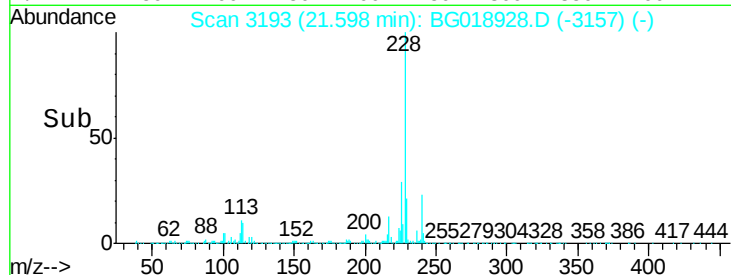
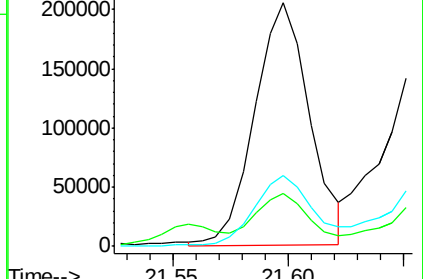
226 29.3 22.1 33.1



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



#85

Chrysene

Concen: 21.52 ng/ul

RT: 21.66 min Scan# 3204

Delta R.T. 0.01 min

Lab File: BG018928.D

Acq: 27 Sep 2015 00:45

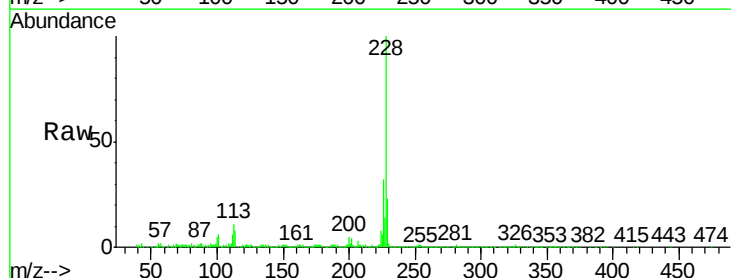
Tgt Ion:228 Resp: 423465

Ion Ratio Lower Upper

228 100

226 31.9 26.5 39.7

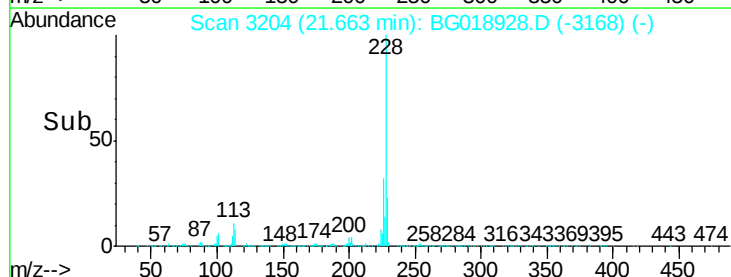
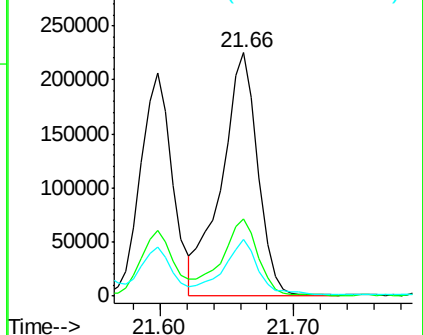
229 23.1 16.9 25.3

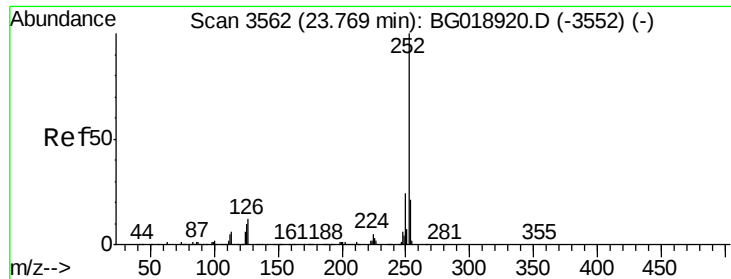


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#88

Benzo(b)fluoranthene

Concen: 27.73 ng/ul

RT: 23.79 min Scan# 3566

Delta R.T. 0.02 min

Lab File: BG018928.D

Acq: 27 Sep 2015 00:45

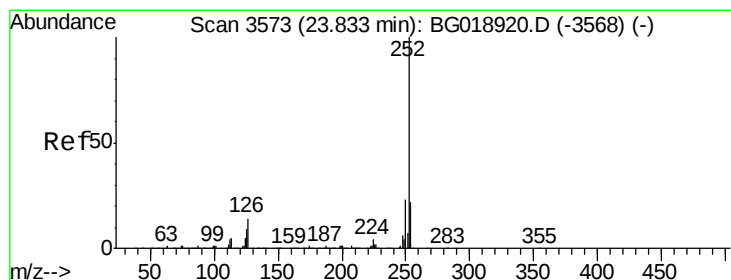
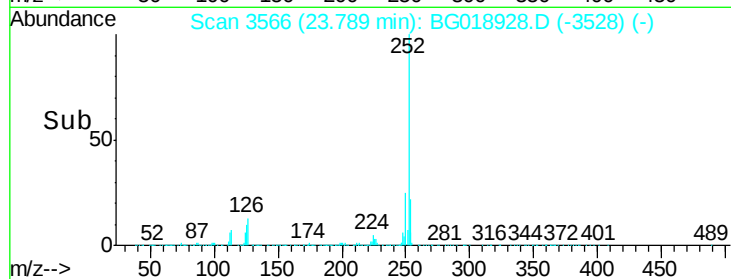
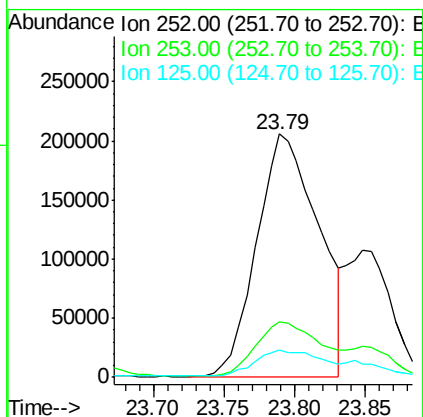
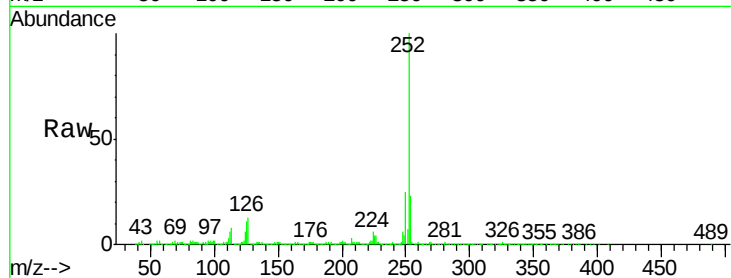
Instrument :

BNA\_G

ClientSampleId :

D9G73

|     |         |       |        |
|-----|---------|-------|--------|
| Tot | Ion:252 | Resp: | 629297 |
| Ion | Ratio   | Lower | Upper  |
| 252 | 100     |       |        |
| 253 | 22.7    | 18.1  | 27.1   |
| 125 | 11.2    | 8.3   | 12.5   |



#89

Benzo(k)fluoranthene

Concen: 28.95 ng/ul

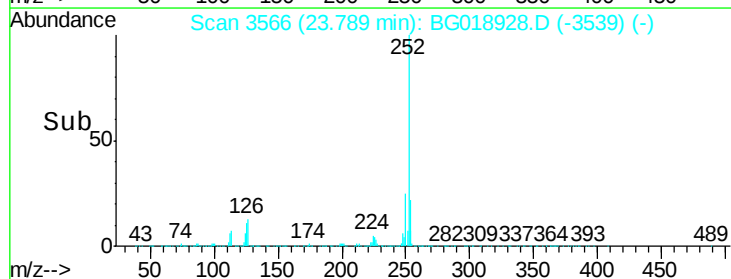
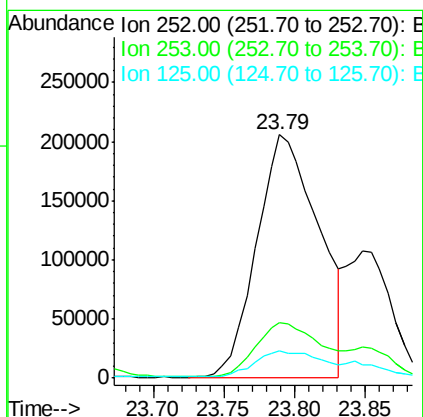
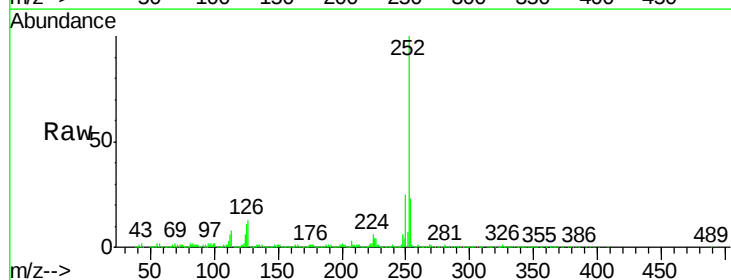
RT: 23.79 min Scan# 3566

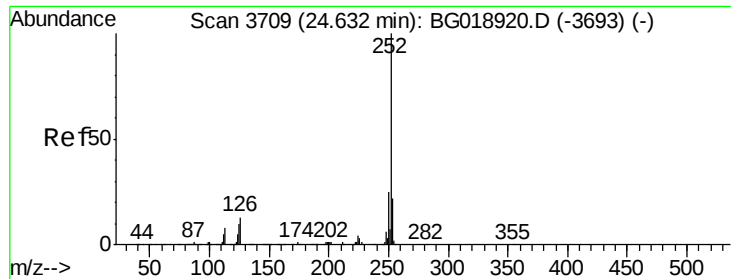
Delta R.T. -0.04 min

Lab File: BG018928.D

Acq: 27 Sep 2015 00:45

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:252 | Resp: | 629297 |
| Ion | Ratio   | Lower | Upper  |
| 252 | 100     |       |        |
| 253 | 22.7    | 17.8  | 26.6   |
| 125 | 11.2    | 9.0   | 13.4   |





#91

Benzo(a)pyrene

Concen: 17.98 ng/ul

RT: 24.65 min Scan# 3713

Delta R.T. 0.02 min

Lab File: BG018928.D

Acq: 27 Sep 2015 00:45

Instrument :

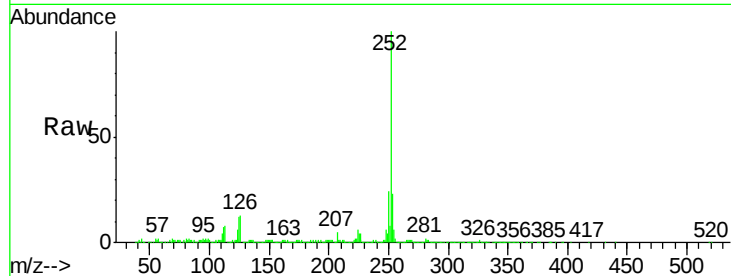
BNA\_G

ClientSampleId :

D9G73

Tot Ion:252 Resp: 387777

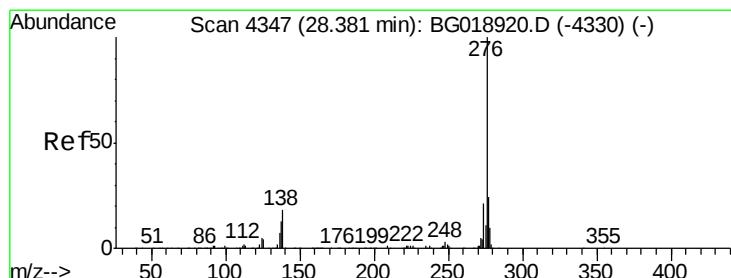
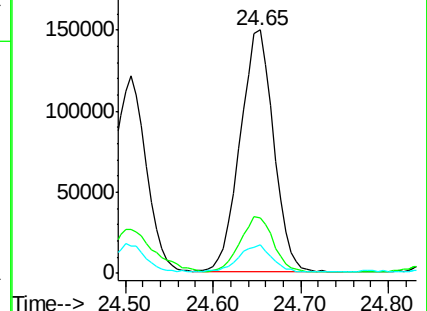
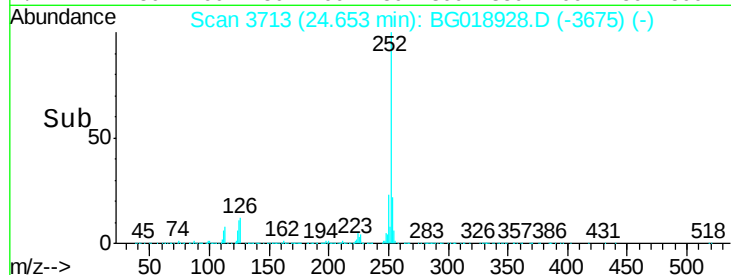
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.8  | 17.7  | 26.5  |
| 125 | 11.9  | 10.2  | 15.2  |



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



#92

Indeno(1,2,3-cd)pyrene

Concen: 12.86 ng/ul

RT: 28.43 min Scan# 4355

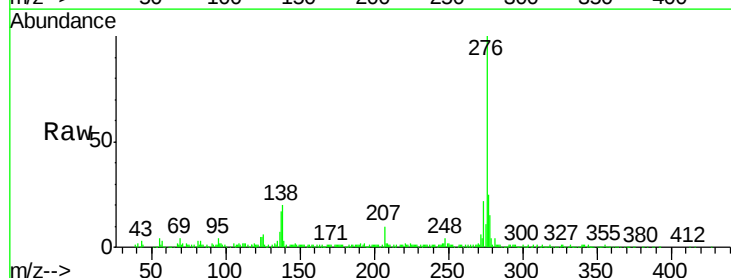
Delta R.T. 0.04 min

Lab File: BG018928.D

Acq: 27 Sep 2015 00:45

Tgt Ion:276 Resp: 321582

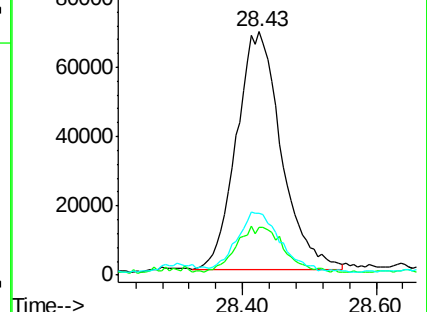
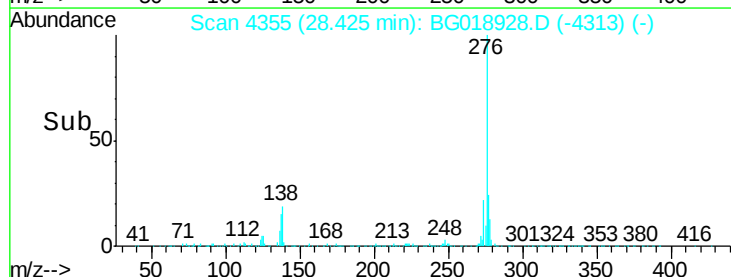
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 19.6  | 15.8  | 23.6  |
| 277 | 25.3  | 18.9  | 28.3  |

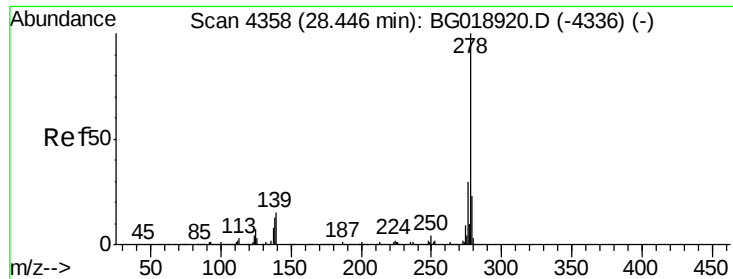


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Dibenzo(a,h)anthracene

Concen: 1.17 ng/ul

RT: 28.44 min Scan# 4357

Delta R.T. -0.01 min

Lab File: BG018928.D

Acq: 27 Sep 2015 00:45

Instrument :

BNA\_G

ClientSampleId :

D9G73

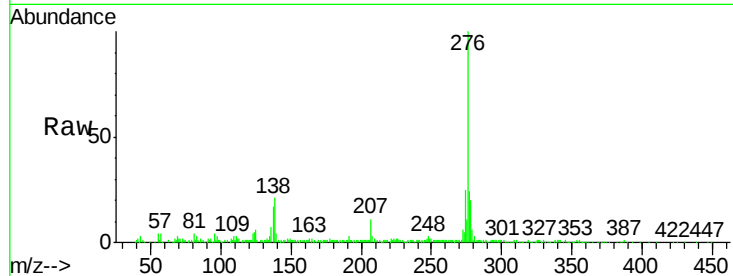
Tot Ion:278 Resp: 23543

Ion Ratio Lower Upper

278 100

139 20.9 13.8 20.6#

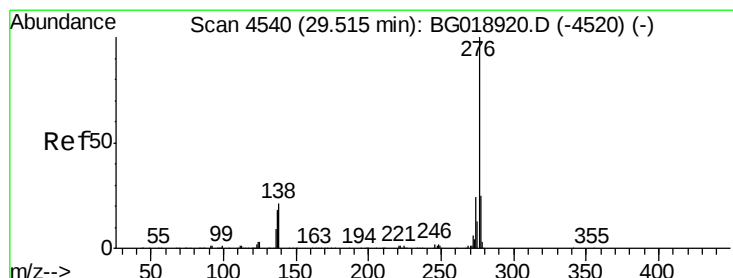
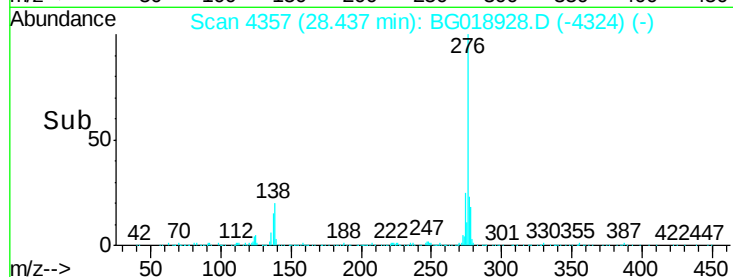
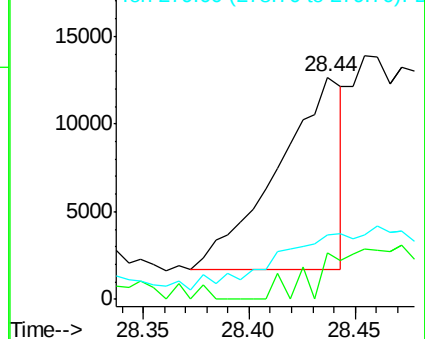
279 28.8 17.8 26.8#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#94

Benzo(g,h,i)perylene

Concen: 12.63 ng/ul

RT: 29.55 min Scan# 4547

Delta R.T. 0.04 min

Lab File: BG018928.D

Acq: 27 Sep 2015 00:45

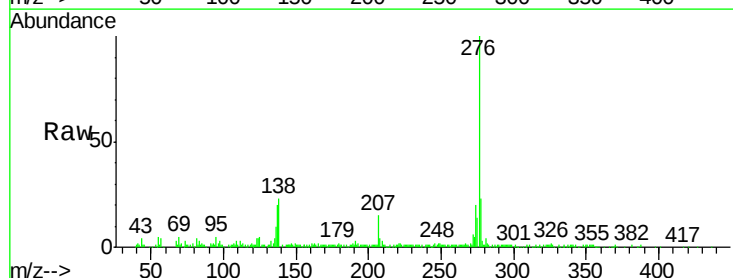
Tgt Ion:276 Resp: 263732

Ion Ratio Lower Upper

276 100

138 22.9 16.5 24.7

277 23.2 19.0 28.6



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

