

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG081115\  
 Data File : BG018386.D  
 Acq On : 11 Aug 2015 18:03  
 Operator : UM/MA  
 Sample : G3136-21RE  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C02K8

Quant Time: Aug 12 01:01:38 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG080915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 12 00:54:17 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.04  | 152  | 93583    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.85 | 136  | 401604   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.67 | 164  | 216103   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.41 | 188  | 440354   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.68 | 240  | 389006   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.92 | 264  | 397222   | 20.00 | ng/ul | 0.03     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.48  | 96  | 5131   | 2.42  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.20  | 99  | 86065  | 10.13 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.36  | 67  | 59825  | 11.37 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.58  | 132 | 73483  | 11.30 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.74  | 113 | 33629  | 4.71  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.20  | 128 | 38238  | 12.21 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.92  | 143 | 40437  | 12.68 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.47 | 165 | 69720  | 10.30 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.98 | 131 | 54984  | 7.19  | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.07 | 166 | 218805 | 12.03 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.36 | 160 | 244639 | 10.68 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.86 | 143 | 16234  | 4.96  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.65 | 176 | 158351 | 10.00 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.77 | 200 | 4123   | 1.90  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.51 | 188 | 214803 | 10.20 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.79 | 212 | 202305 | 10.02 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.70 | 264 | 183654 | 8.71  | ng/ul | 0.02 |

## Target Compounds

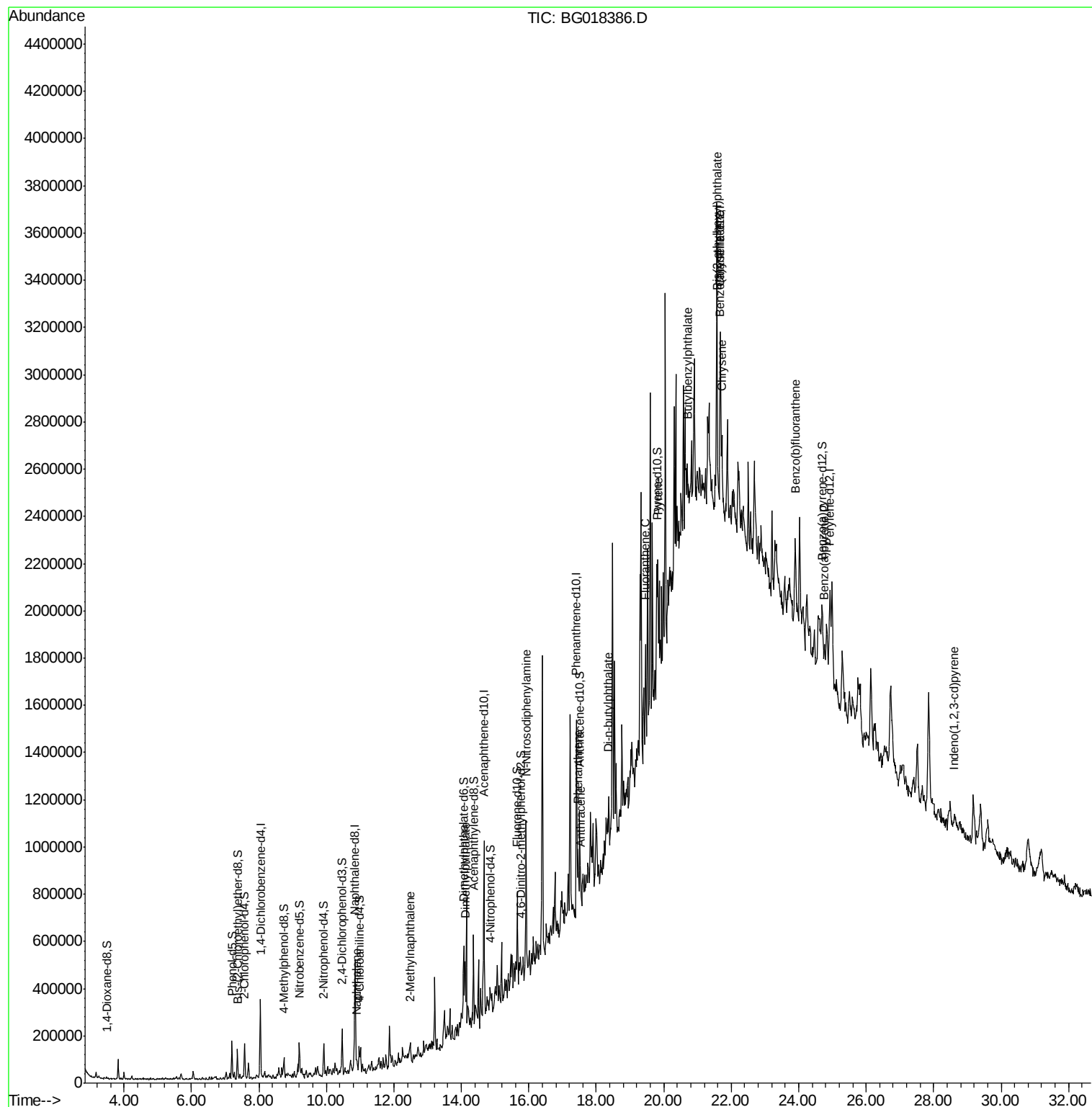
|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 28) Naphthalene                | 10.90 | 128 | 22844  | 1.08  | ng/ul# | 90     |
| 34) 2-Methylnaphthalene        | 12.50 | 142 | 22201  | 1.44  | ng/ul  | 85     |
| 45) Dimethylphthalate          | 14.12 | 163 | 132809 | 7.41  | ng/ul# | 98     |
| 65) N-Nitrosodiphenylamine     | 15.92 | 169 | 34782  | 2.63  | ng/ul# | 38     |
| 70) Phenanthrene               | 17.45 | 178 | 146617 | 6.14  | ng/ul  | 97     |
| 72) Anthracene                 | 17.55 | 178 | 37797  | 1.55  | ng/ul# | 84     |
| 76) Di-n-butylphthalate        | 18.37 | 149 | 164937 | 5.91  | ng/ul  | 96     |
| 77) Fluoranthene               | 19.46 | 202 | 246753 | 9.67  | ng/ul  | 97     |
| 80) Pyrene                     | 19.83 | 202 | 273323 | 10.39 | ng/ul  | 100    |
| 81) Butylbenzylphthalate       | 20.70 | 149 | 24136  | 2.17  | ng/ul# | 60     |
| 83) Benzo(a)anthracene         | 21.67 | 228 | 107539 | 4.46  | ng/ul# | 86     |
| 84) Bis(2-ethylhexyl)phthalate | 21.58 | 149 | 528844 | 33.64 | ng/ul  | 97     |
| 85) Chrysene                   | 21.72 | 228 | 131995 | 5.85  | ng/ul# | 91     |
| 88) Benzo(b)fluoranthene       | 23.90 | 252 | 170366 | 6.83  | ng/ul# | 60     |
| 91) Benzo(a)pyrene             | 24.77 | 252 | 112318 | 4.73  | ng/ul# | 63     |
| 92) Indeno(1,2,3-cd)pyrene     | 28.62 | 276 | 77681  | 2.83  | ng/ul# | 86     |

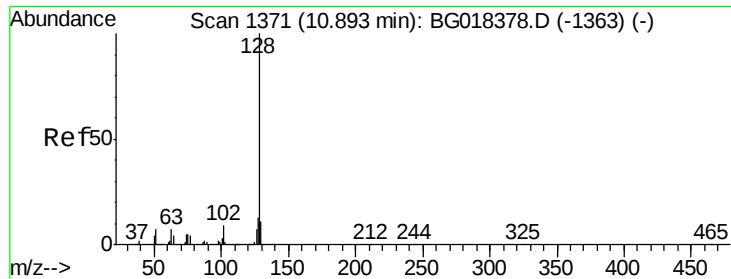
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

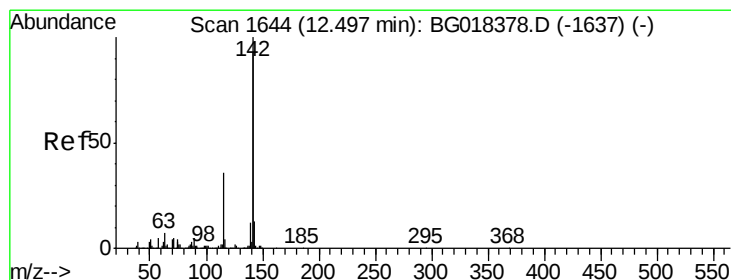
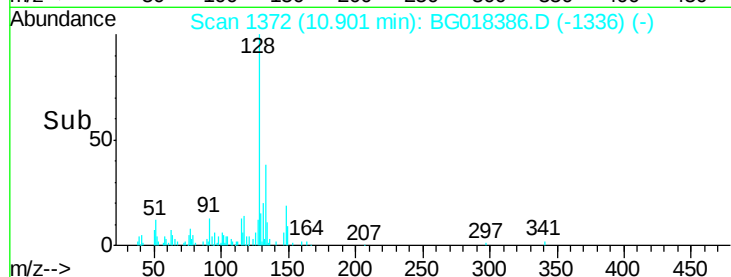
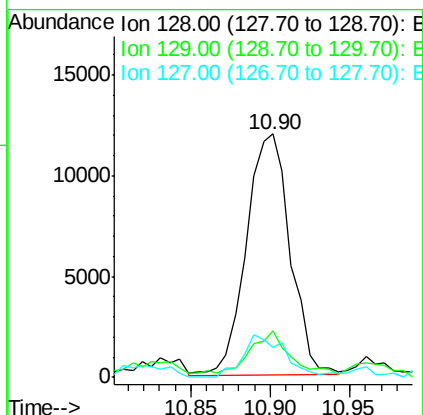
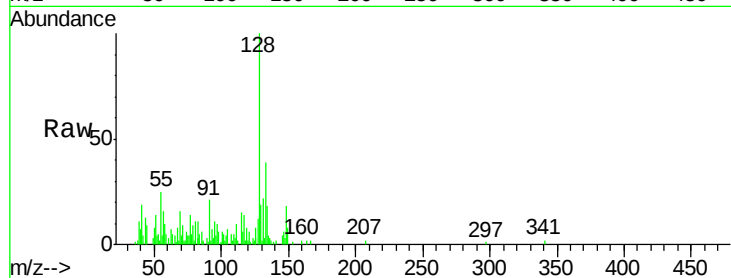




#28  
Naphthalene  
Concen: 1.08 ng/ul  
RT: 10.90 min Scan# 1372  
Delta R.T. 0.01 min  
Lab File: BG018386.D  
Acq: 11 Aug 2015 18:03

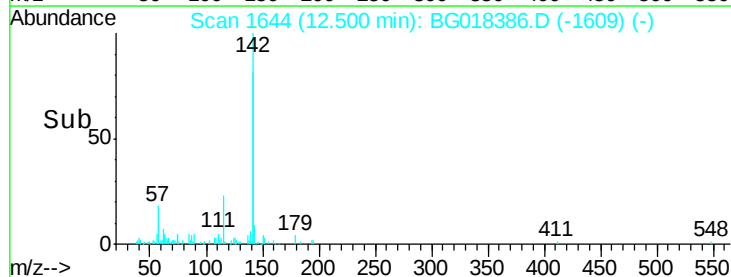
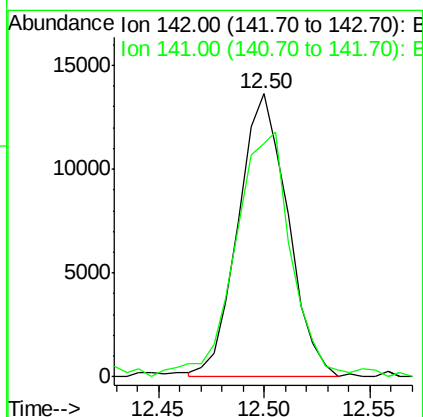
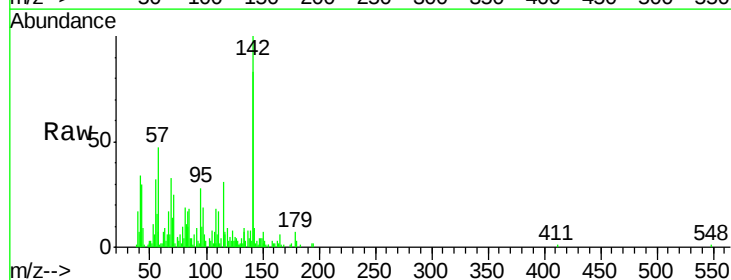
Instrument :  
BNA\_G  
ClientSampleId :  
C02K8

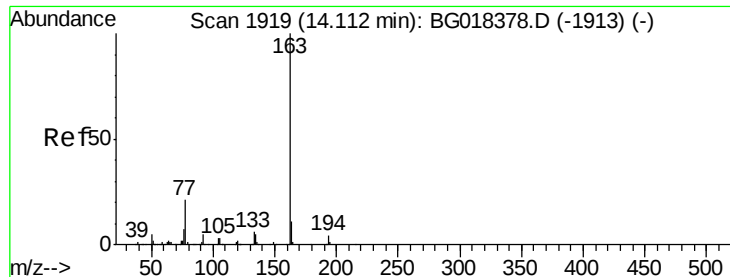
Tgt Ion:128 Resp: 22844  
Ion Ratio Lower Upper  
128 100  
129 19.3 9.6 14.4#  
127 12.0 10.5 15.7



#34  
2-Methylnaphthalene  
Concen: 1.44 ng/ul  
RT: 12.50 min Scan# 1644  
Delta R.T. 0.00 min  
Lab File: BG018386.D  
Acq: 11 Aug 2015 18:03

Tgt Ion:142 Resp: 22201  
Ion Ratio Lower Upper  
142 100  
141 82.7 78.0 117.0





#45

Dimethylphthalate

Concen: 7.41 ng/ul

RT: 14.12 min Scan# 1919

Delta R.T. 0.00 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

Instrument :

BNA\_G

ClientSampleId :

C02K8

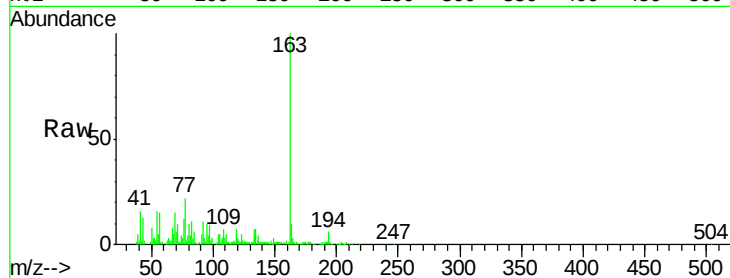
Tgt Ion:163 Resp: 132809

Ion Ratio Lower Upper

163 100

194 5.9 2.9 4.3#

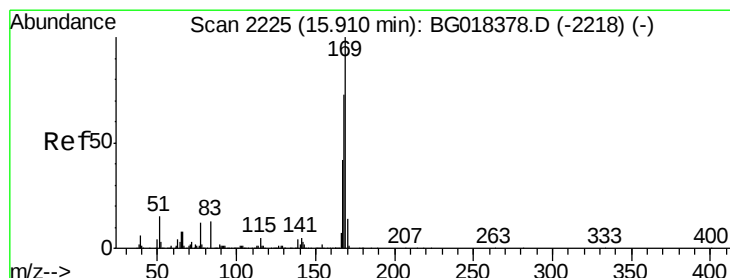
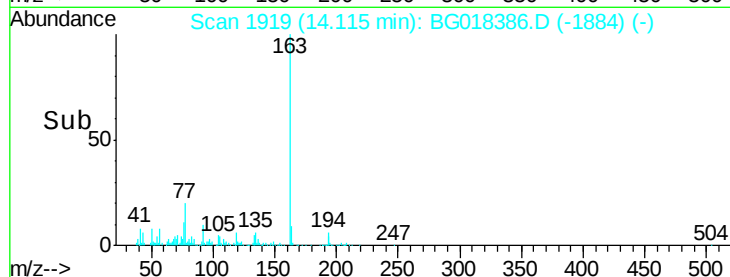
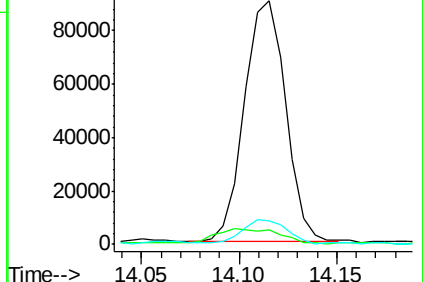
164 9.5 7.7 11.5



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



#65

N-Nitrosodiphenylamine

Concen: 2.63 ng/ul

RT: 15.92 min Scan# 2227

Delta R.T. 0.01 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

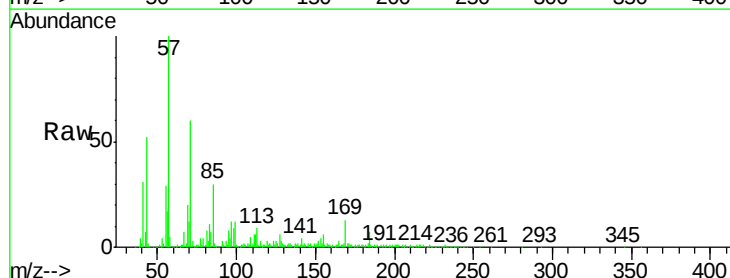
Tgt Ion:169 Resp: 34782

Ion Ratio Lower Upper

169 100

168 17.7 60.2 90.2#

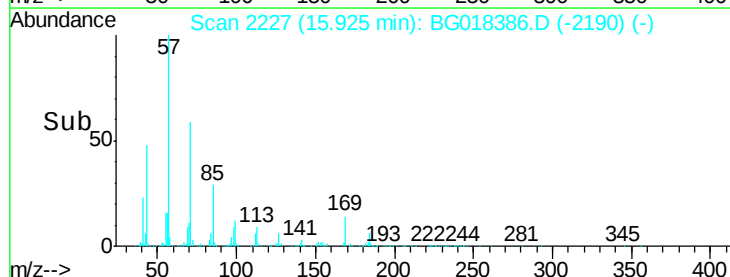
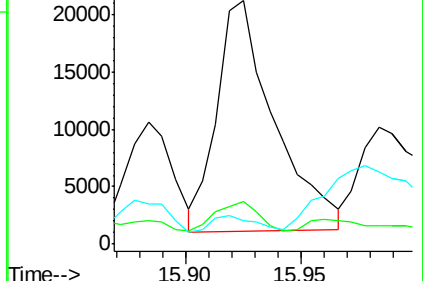
167 9.4 33.4 50.2#

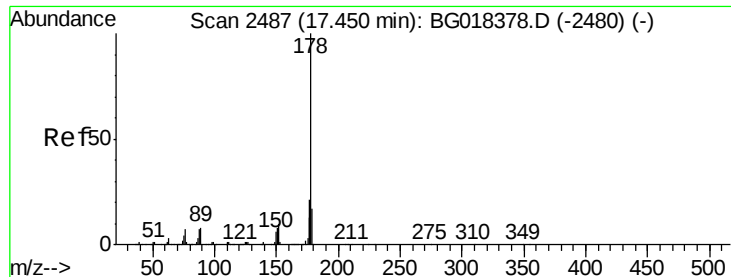


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 6.14 ng/ul

RT: 17.45 min Scan# 2487

Delta R.T. 0.00 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

Instrument :

BNA\_G

ClientSampled :

C02K8

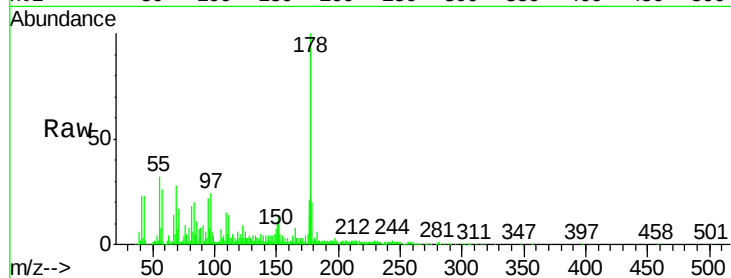
Tgt Ion:178 Resp: 146617

Ion Ratio Lower Upper

178 100

179 19.9 13.7 20.5

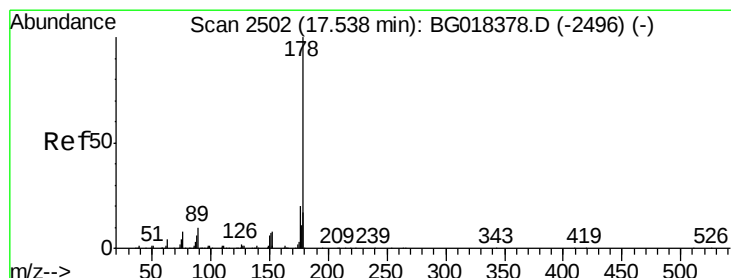
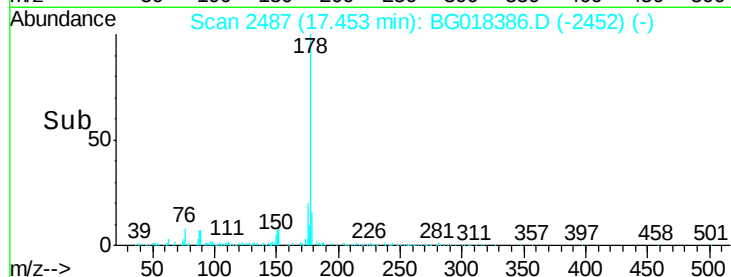
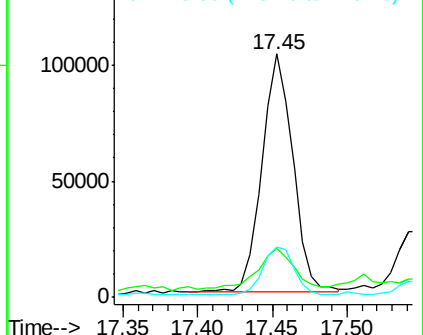
176 20.8 16.6 24.8



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: 1.55 ng/ul

RT: 17.55 min Scan# 2503

Delta R.T. 0.01 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

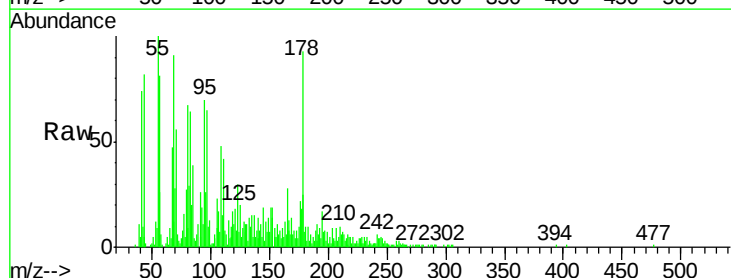
Tgt Ion:178 Resp: 37797

Ion Ratio Lower Upper

178 100

179 27.2 13.0 19.4#

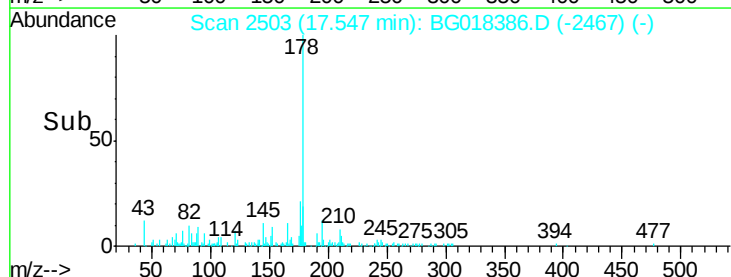
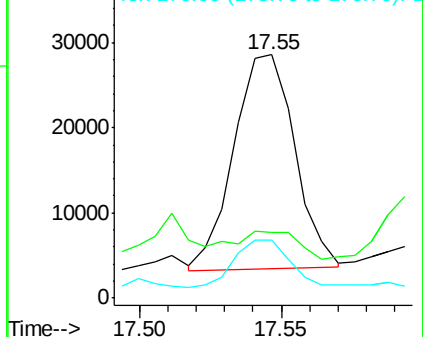
176 23.6 16.0 24.0

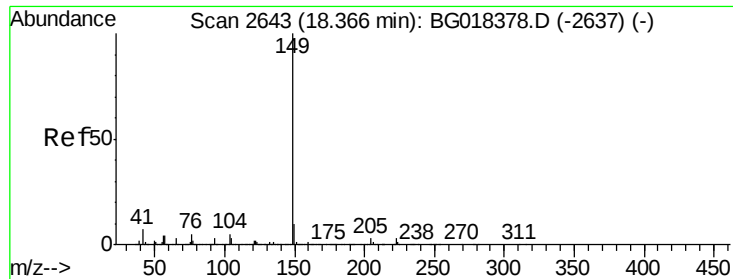


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#76

Di-n-butylphthalate

Concen: 5.91 ng/ul

RT: 18.37 min Scan# 2643

Delta R.T. 0.00 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

Instrument :

BNA\_G

ClientSampleId :

C02K8

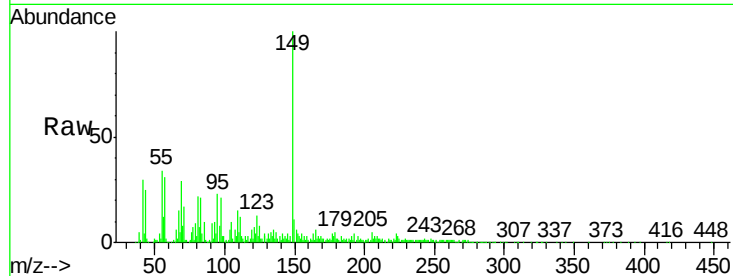
Tgt Ion:149 Resp: 164937

Ion Ratio Lower Upper

149 100

150 11.2 7.5 11.3

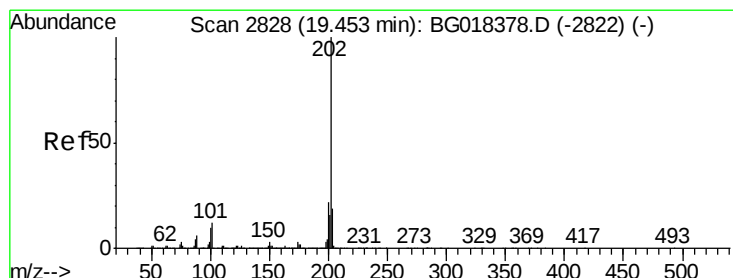
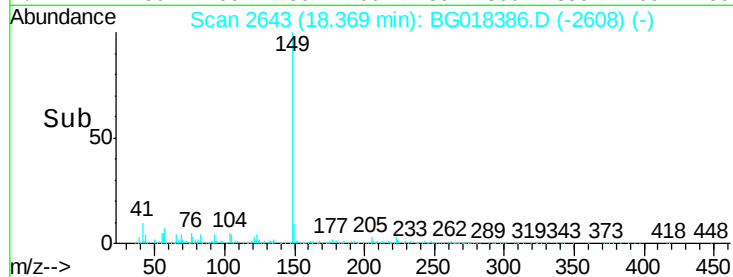
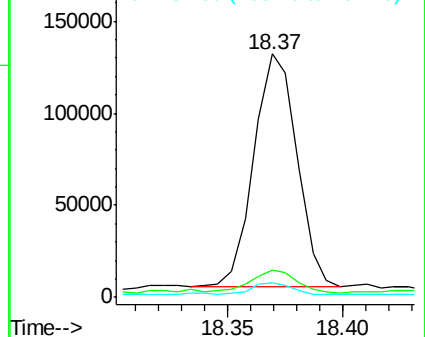
104 6.2 4.3 6.5



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E



#77

Fluoranthene

Concen: 9.67 ng/ul

RT: 19.46 min Scan# 2829

Delta R.T. 0.01 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

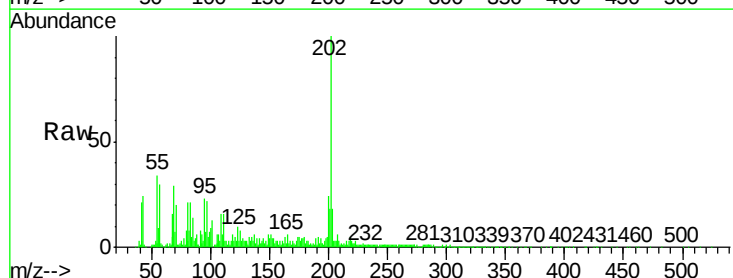
Tgt Ion:202 Resp: 246753

Ion Ratio Lower Upper

202 100

101 13.4 9.7 14.5

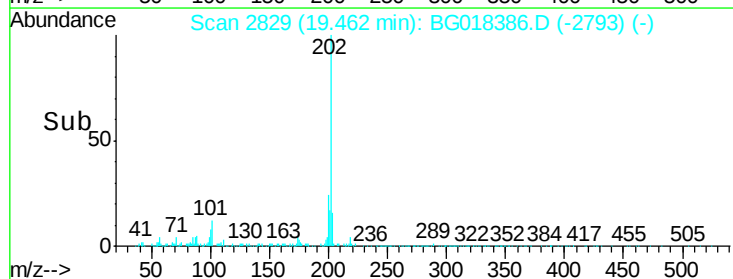
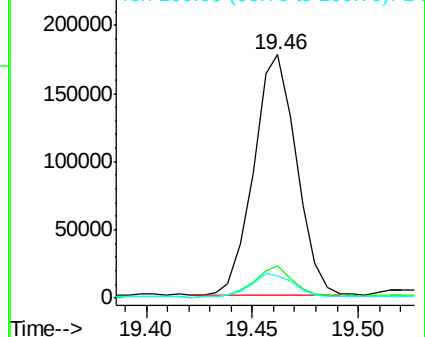
100 8.9 7.8 11.8

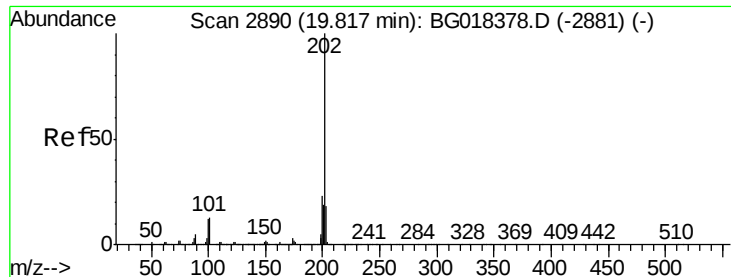


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E

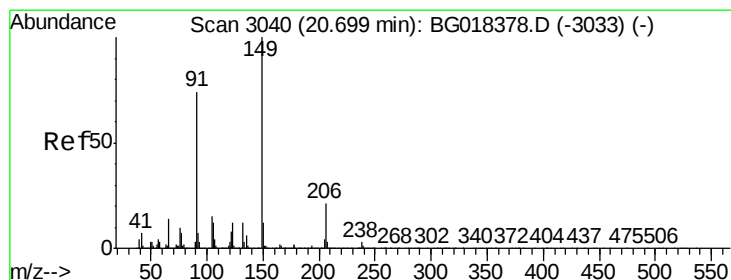
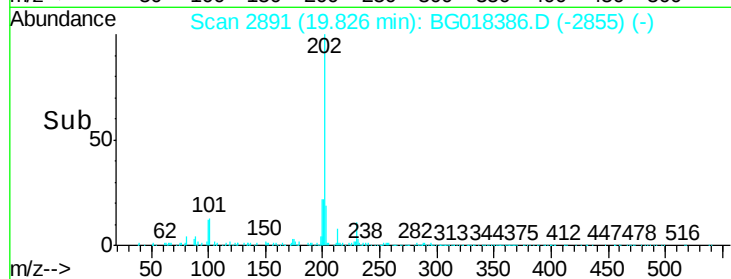
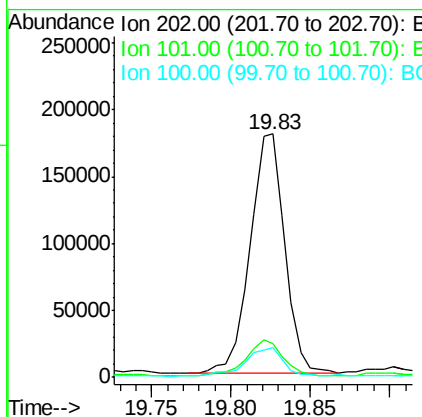
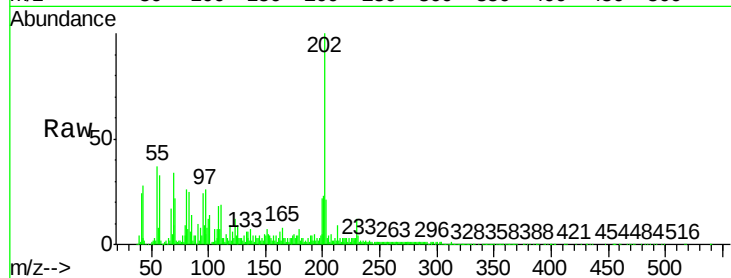




#80  
 Pyrene  
 Concen: 10.39 ng/ul  
 RT: 19.83 min Scan# 2891  
 Delta R.T. 0.01 min  
 Lab File: BG018386.D  
 Acq: 11 Aug 2015 18:03

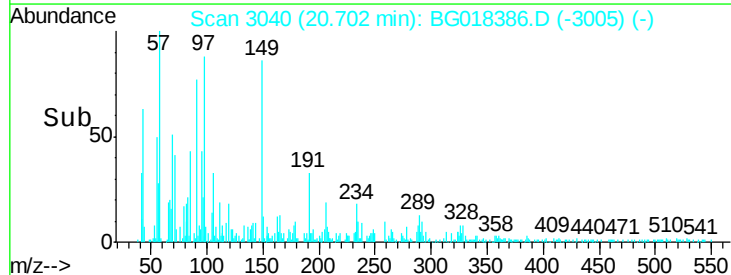
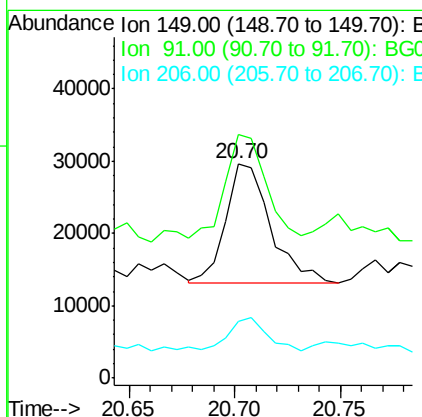
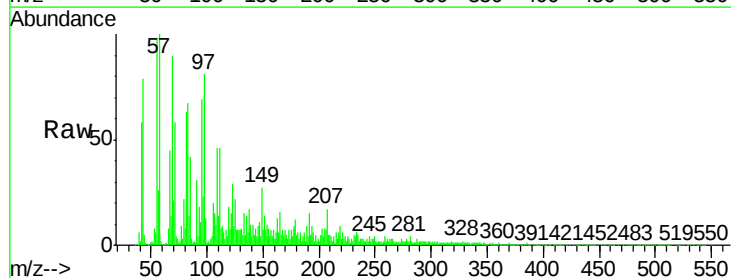
Instrument :  
 BNA\_G  
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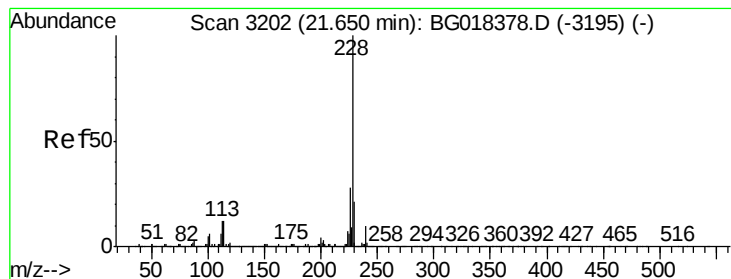
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 273323 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 13.9  | 11.0  | 16.4   |
| 100      | 12.3  | 9.8   | 14.6   |



#81  
 Butylbenzylphthalate  
 Concen: 2.17 ng/ul  
 RT: 20.70 min Scan# 3040  
 Delta R.T. 0.00 min  
 Lab File: BG018386.D  
 Acq: 11 Aug 2015 18:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 149   | Resp: | 24136 |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 91       | 113.7 | 57.9  | 86.9# |
| 206      | 26.3  | 17.9  | 26.9  |





#83

Benzo(a)anthracene

Concen: 4.46 ng/ul

RT: 21.67 min Scan# 3204

Delta R.T. 0.01 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

Instrument :

BNA\_G

ClientSampleId :

C02K8

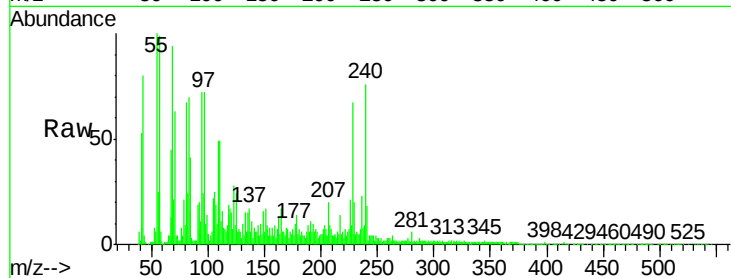
Tgt Ion:228 Resp: 107539

Ion Ratio Lower Upper

228 100

229 30.3 15.5 23.3#

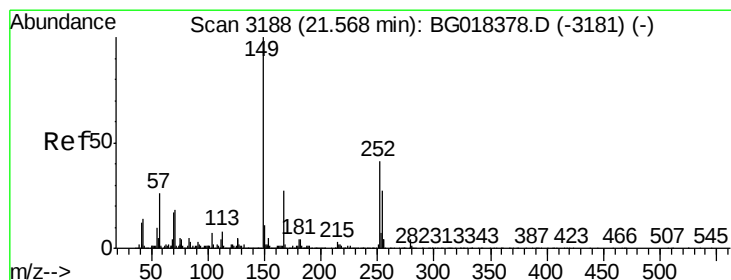
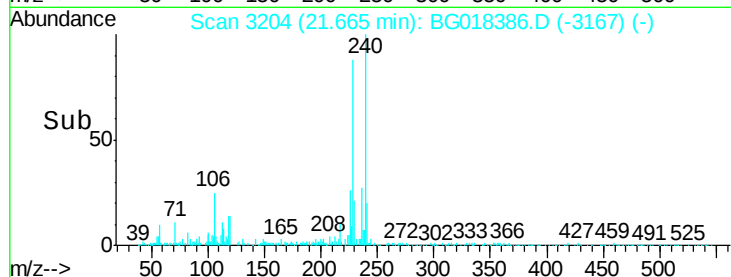
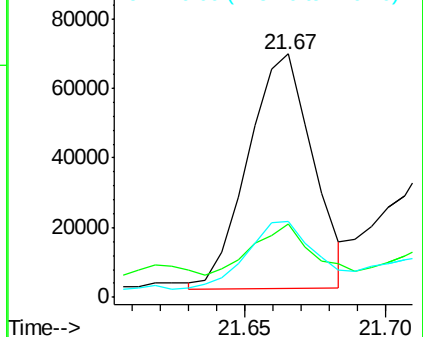
226 31.2 22.1 33.1



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 33.64 ng/ul

RT: 21.58 min Scan# 3189

Delta R.T. 0.01 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

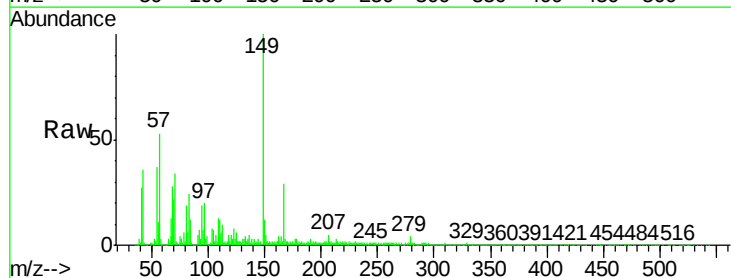
Tgt Ion:149 Resp: 528844

Ion Ratio Lower Upper

149 100

167 29.4 22.2 33.2

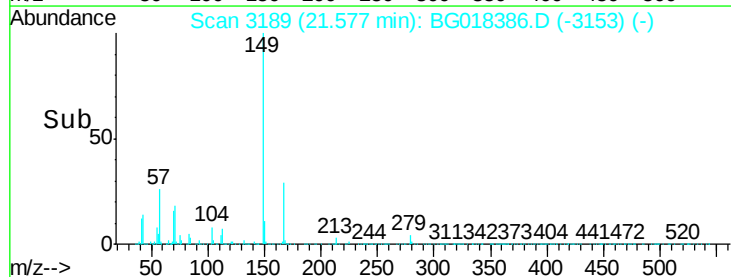
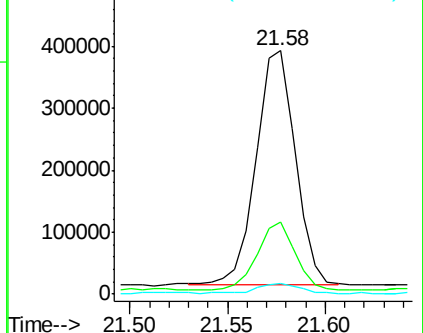
279 4.1 2.8 4.2

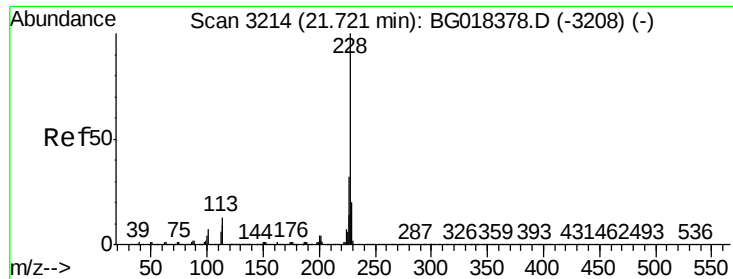


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Chrysene

Concen: 5.85 ng/ul

RT: 21.72 min Scan# 3214

Delta R.T. 0.00 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

Instrument :

BNA\_G

ClientSampleId :

C02K8

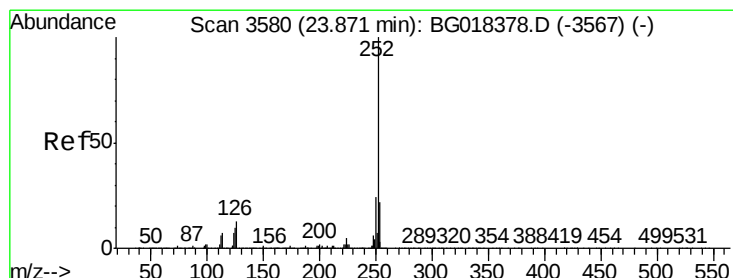
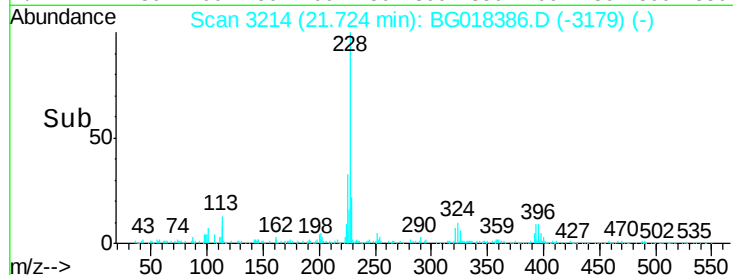
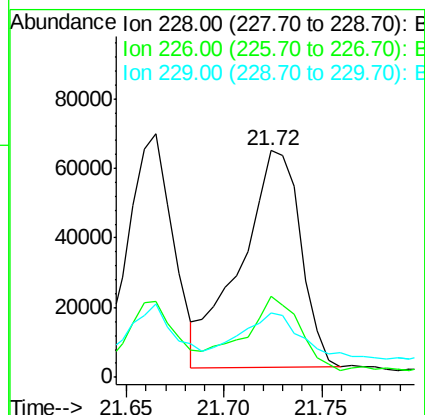
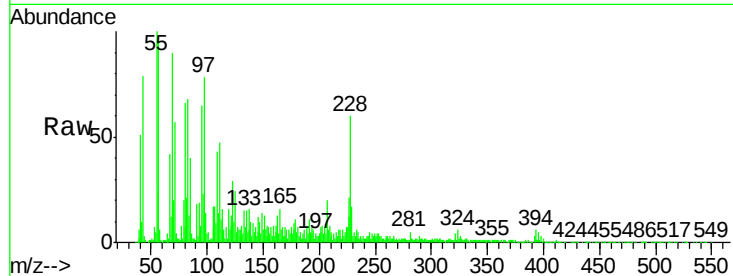
Tgt Ion:228 Resp: 131995

Ion Ratio Lower Upper

228 100

226 35.9 26.5 39.7

229 28.2 16.9 25.3#



#88

Benzo(b)fluoranthene

Concen: 6.83 ng/ul

RT: 23.90 min Scan# 3584

Delta R.T. 0.03 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

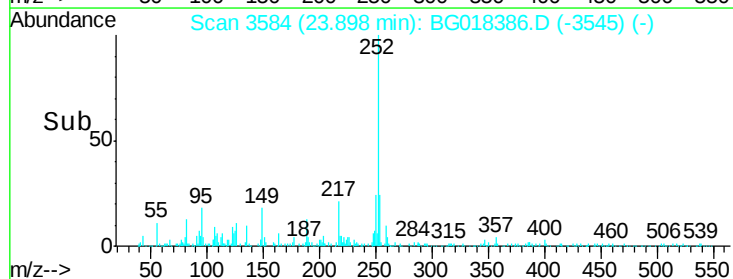
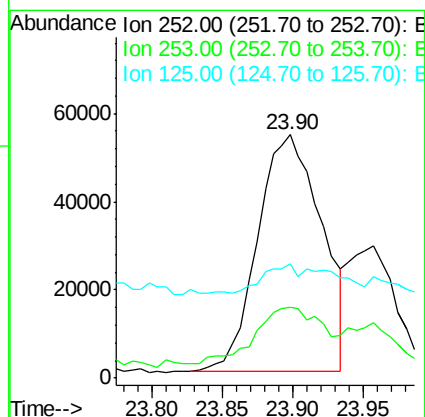
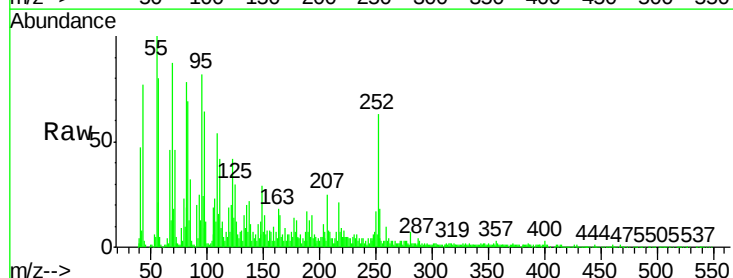
Tgt Ion:252 Resp: 170366

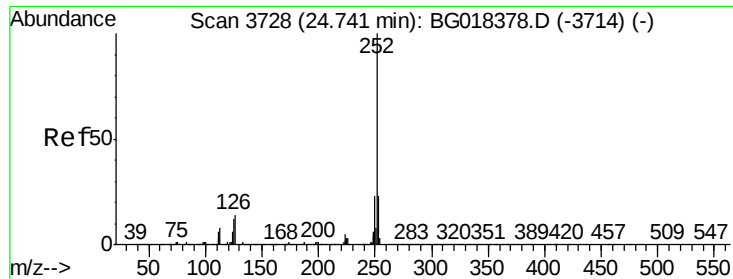
Ion Ratio Lower Upper

252 100

253 29.0 18.1 27.1#

125 47.2 8.3 12.5#





#91

Benzo(a)pyrene

Concen: 4.73 ng/ul

RT: 24.77 min Scan# 3732

Delta R.T. 0.03 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

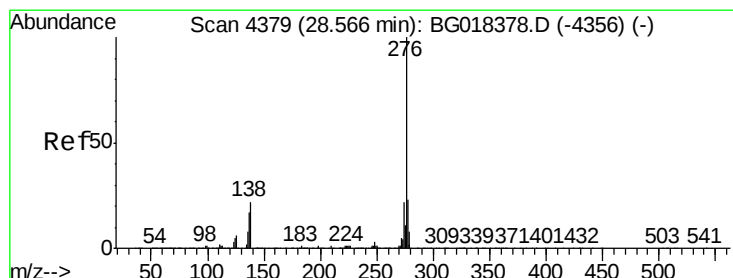
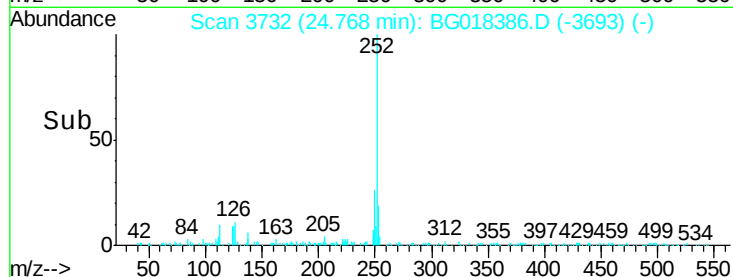
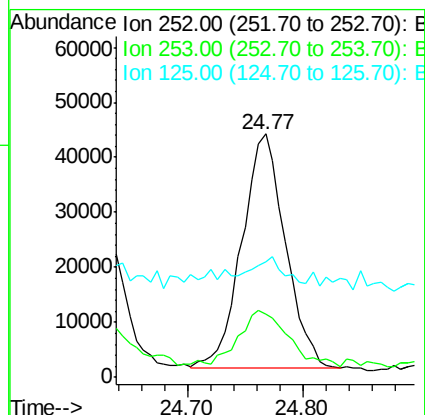
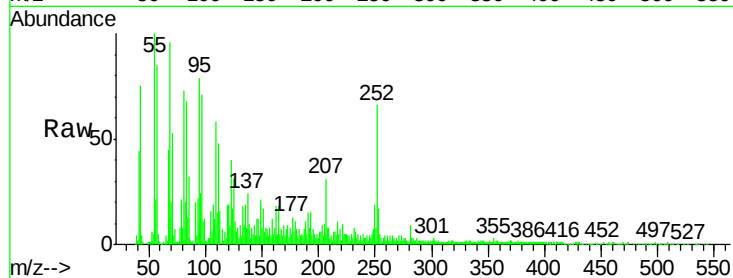
Instrument :

BNA\_G

ClientSampled :

C02K8

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 252  | Resp: | 112318 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 25.8 | 17.7  | 26.5   |
| 125       | 47.6 | 10.2  | 15.2#  |



#92

Indeno(1,2,3-cd)pyrene

Concen: 2.83 ng/ul

RT: 28.62 min Scan# 4387

Delta R.T. 0.05 min

Lab File: BG018386.D

Acq: 11 Aug 2015 18:03

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 276  | Resp: | 77681 |
| Ion Ratio |      | Lower | Upper |
| 276       | 100  |       |       |
| 138       | 29.8 | 15.8  | 23.6# |
| 277       | 27.0 | 18.9  | 28.3  |

