

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042715\  
 Data File : BG016748.D  
 Acq On : 28 Apr 2015 2:16  
 Operator : TP/IZ  
 Sample : G1942-02  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-2

Quant Time: Apr 28 03:30:32 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG042315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 28 01:49:03 2015  
 Response via : Initial Calibration

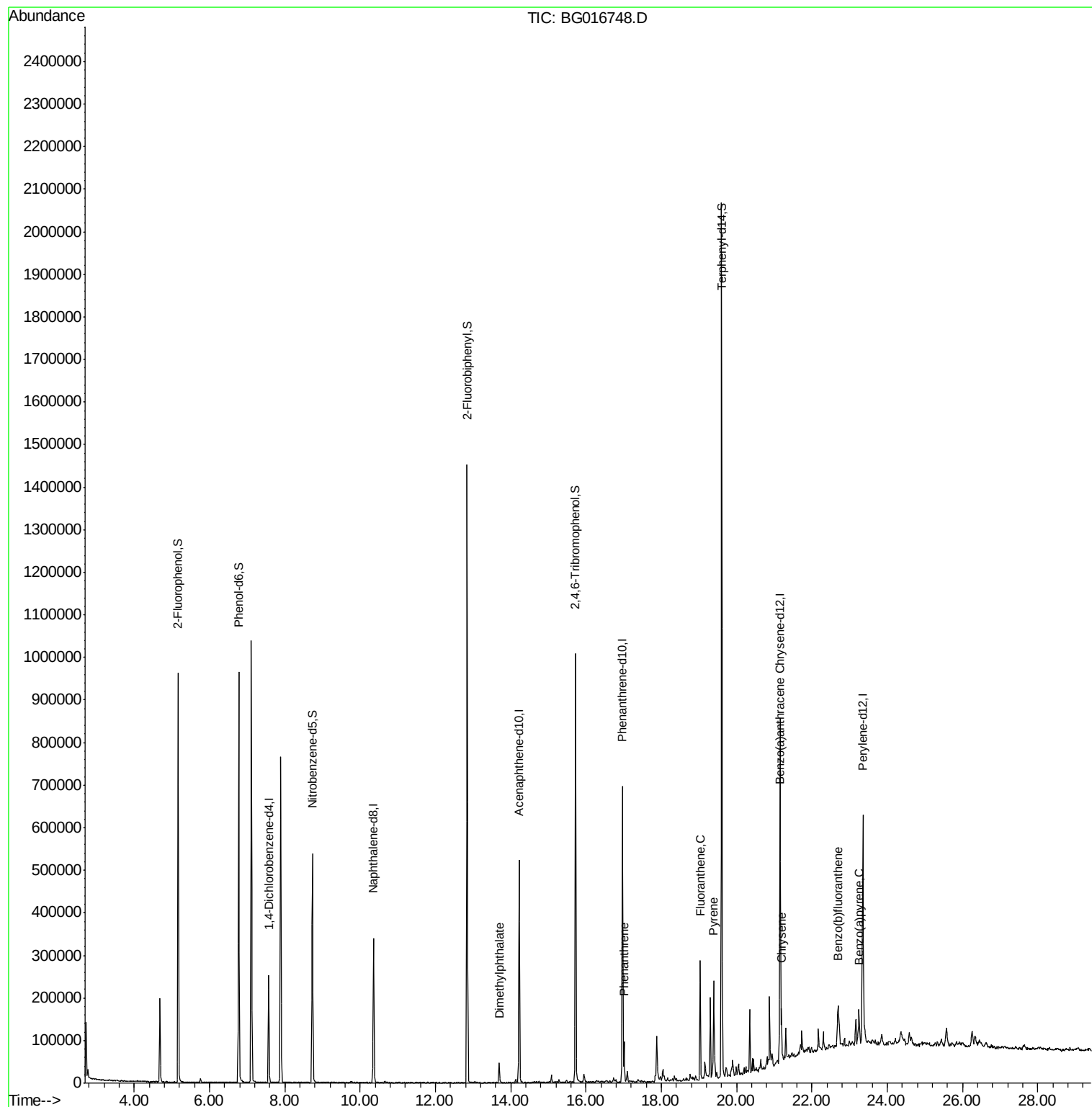
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.57  | 152  | 70717    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.36 | 136  | 304336   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.23 | 164  | 180746   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 16.97 | 188  | 374840   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 21.16 | 240  | 339937   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 23.36 | 264  | 322014   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.17  | 112  | 469305   | 107.69 | ng    | 0.00     |
| 7) Phenol-d6                | 6.78  | 99   | 644599   | 105.44 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.73  | 82   | 317852   | 65.99  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 15.72 | 330  | 147224   | 109.80 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 12.84 | 172  | 703033   | 62.49  | ng    | 0.00     |
| 78) Terphenyl-d14           | 19.61 | 244  | 820303   | 55.59  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 49) Dimethylphthalate       | 13.69 | 163  | 35593    | 2.63   | ng    | 98       |
| 70) Phenanthrene            | 17.01 | 178  | 52832    | 2.45   | ng    | 98       |
| 74) Fluoranthene            | 19.03 | 202  | 147012   | 6.44   | ng    | 96       |
| 77) Pyrene                  | 19.40 | 202  | 129750   | 5.43   | ng    | 97       |
| 80) Benzo(a)anthracene      | 21.14 | 228  | 63476m   | 3.08   | ng    |          |
| 82) Chrysene                | 21.20 | 228  | 62922m   | 3.18   | ng    |          |
| 87) Benzo(b)fluoranthene    | 22.69 | 252  | 85309m   | 4.36   | ng    |          |
| 89) Benzo(a)pyrene          | 23.26 | 252  | 48269    | 2.62   | ng    | 94       |

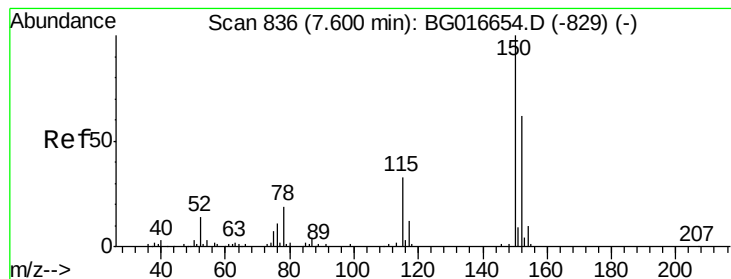
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.57 min Scan# 831

Delta R.T. 0.00 min

Lab File: BG016748.D

Acq: 28 Apr 2015 2:16

Instrument :

BNA\_G

ClientSampleId :

SB-2

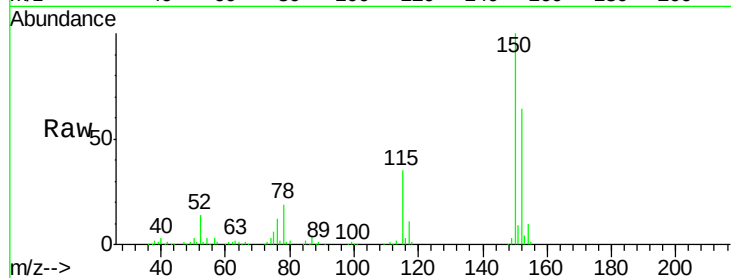
Tot Ion:152 Resp: 70717

Ion Ratio Lower Upper

152 100

150 155.3 129.6 194.4

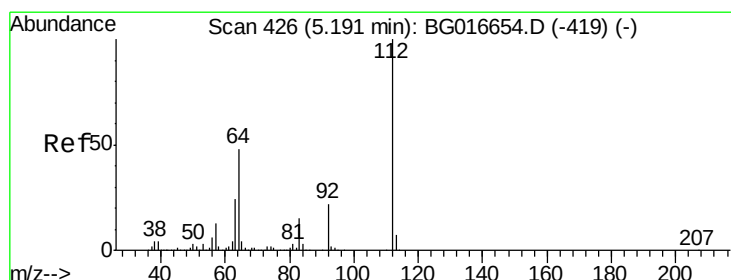
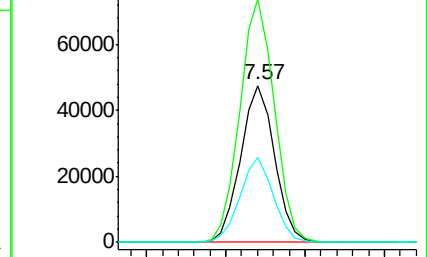
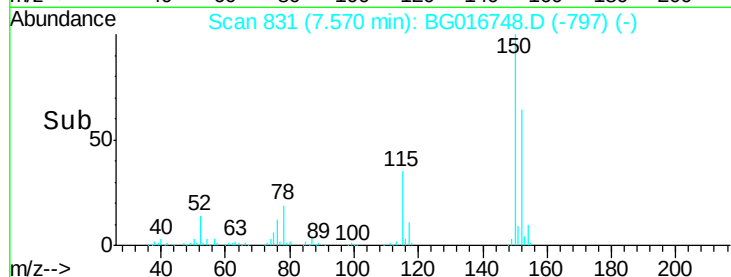
115 54.1 43.0 64.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 107.69 ng

RT: 5.17 min Scan# 422

Delta R.T. 0.01 min

Lab File: BG016748.D

Acq: 28 Apr 2015 2:16

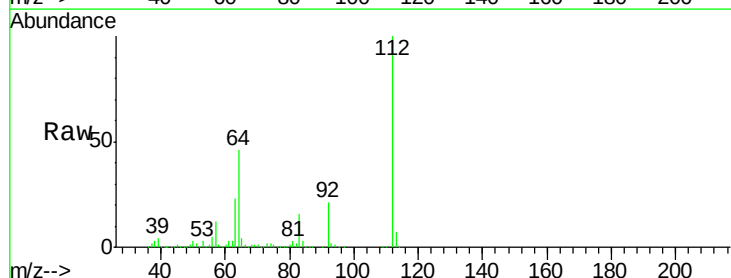
Tgt Ion:112 Resp: 469305

Ion Ratio Lower Upper

112 100

64 45.8 38.3 57.5

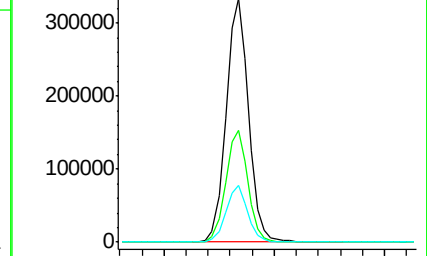
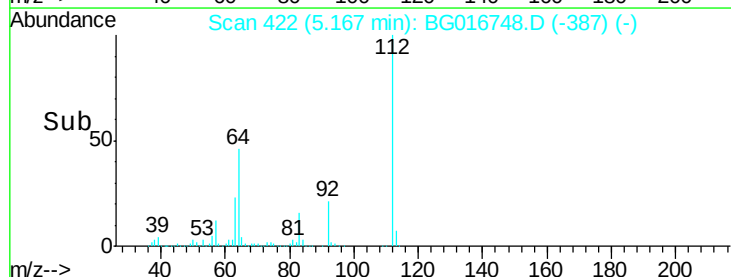
63 23.3 18.9 28.3

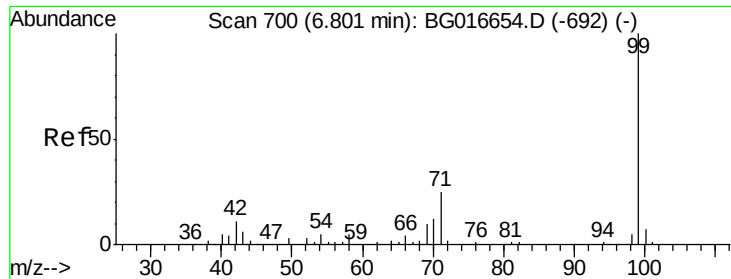


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 105.44 ng

RT: 6.78 min Scan# 696

Delta R.T. 0.00 min

Lab File: BG016748.D

Acq: 28 Apr 2015 2:16

Instrument :

BNA\_G

ClientSampled :

SB-2

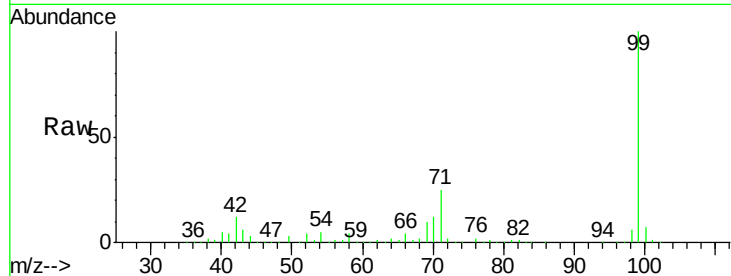
Tot Ion: 99 Resp: 644599

Ion Ratio Lower Upper

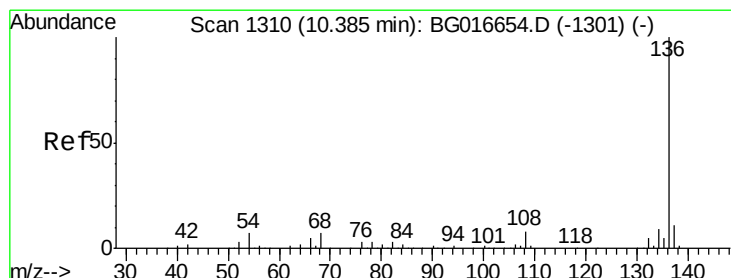
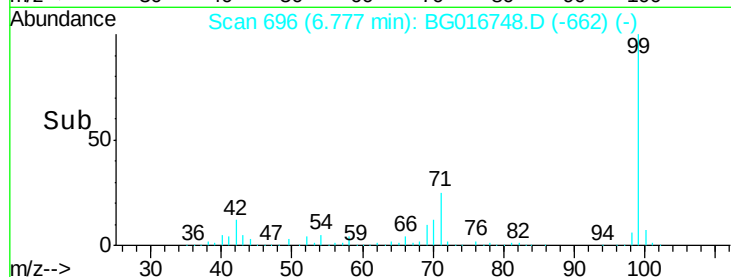
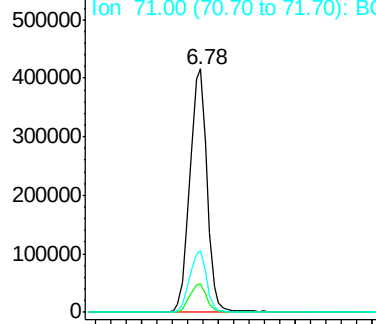
99 100

42 11.7 8.8 13.2

71 25.4 19.9 29.9



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.36 min Scan# 1305

Delta R.T. 0.00 min

Lab File: BG016748.D

Acq: 28 Apr 2015 2:16

Tgt Ion: 136 Resp: 304336

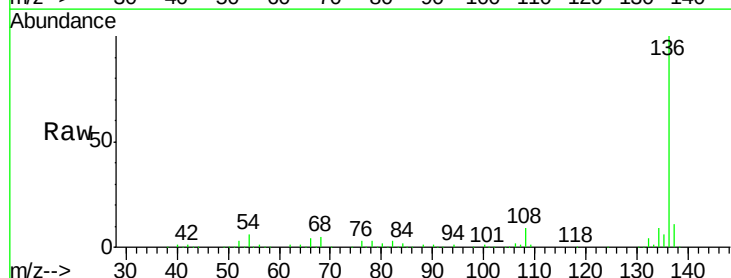
Ion Ratio Lower Upper

136 100

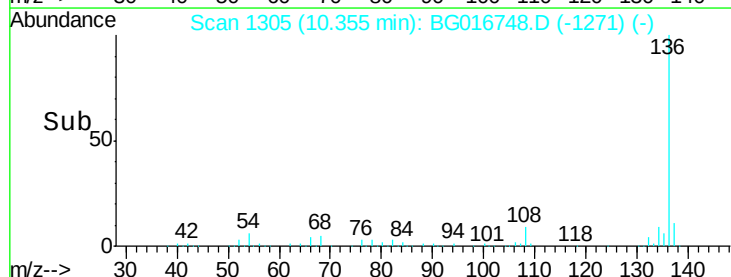
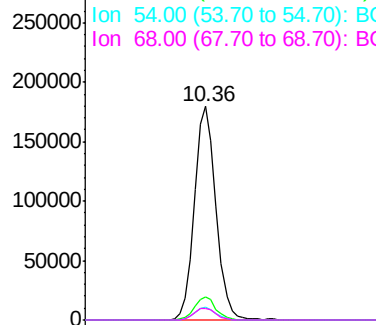
137 10.7 8.5 12.7

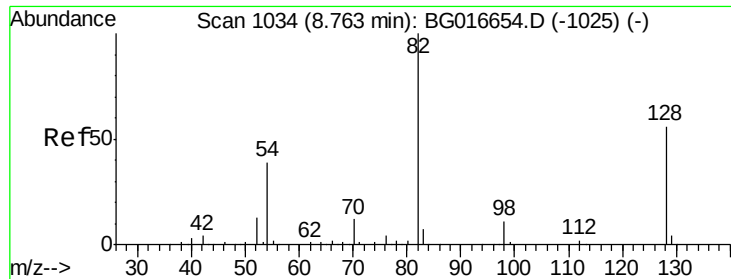
54 5.9 5.4 8.2

68 5.5 5.2 7.8



Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

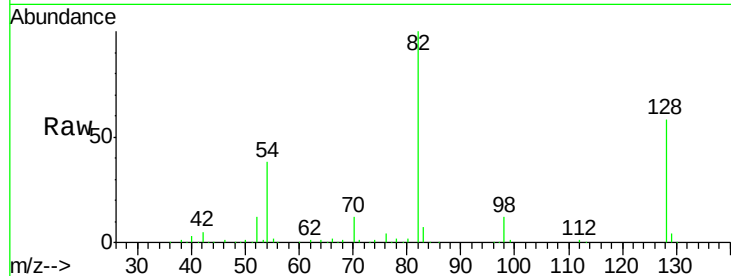




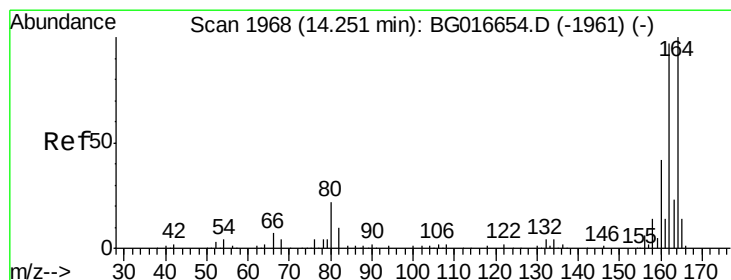
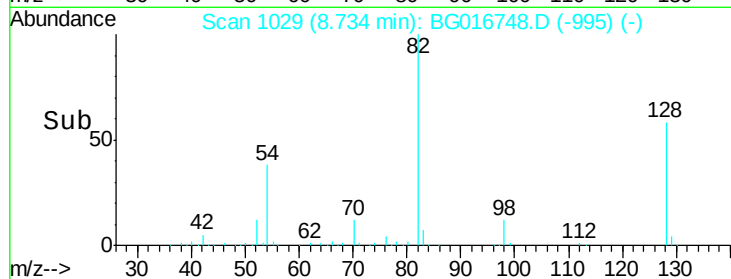
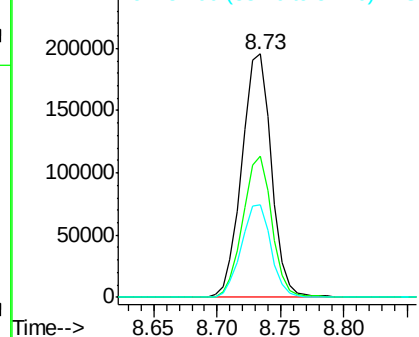
#23  
 Nitrobenzene-d5  
 Concen: 65.99 ng  
 RT: 8.73 min Scan# 1029  
 Delta R.T. 0.00 min  
 Lab File: BG016748.D  
 Acq: 28 Apr 2015 2:16

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-2

| Tot Ion   | 82   | Resp | 317852 |
|-----------|------|------|--------|
| Ion Ratio | 100  |      |        |
| Lower     | 44.7 |      |        |
| Upper     | 67.1 |      |        |
| 128       | 57.8 |      |        |
| 54        | 37.8 |      |        |
|           | 30.9 |      |        |
|           | 46.3 |      |        |

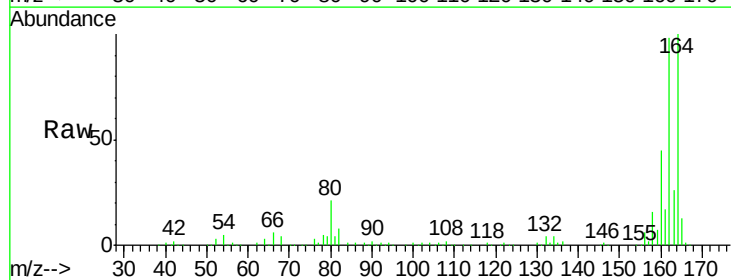


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

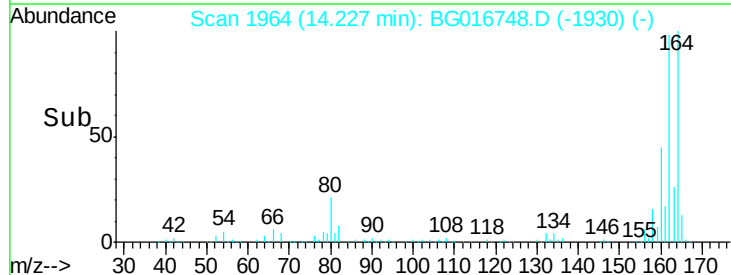
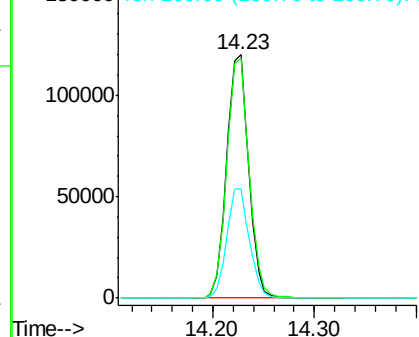


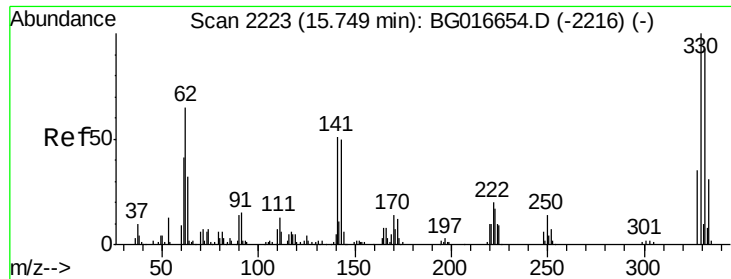
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.23 min Scan# 1964  
 Delta R.T. 0.00 min  
 Lab File: BG016748.D  
 Acq: 28 Apr 2015 2:16

| Tgt Ion   | 164   | Resp | 180746 |
|-----------|-------|------|--------|
| Ion Ratio | 100   |      |        |
| Lower     | 77.3  |      |        |
| Upper     | 115.9 |      |        |
| 162       | 98.3  |      |        |
| 160       | 45.0  |      |        |
|           | 33.7  |      |        |
|           | 50.5  |      |        |



Abundance Ion 164.00 (163.70 to 164.70): BGC  
 Ion 162.00 (161.70 to 162.70): BGC  
 Ion 160.00 (159.70 to 160.70): BGC

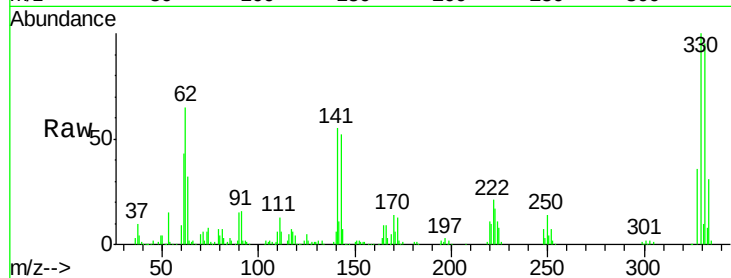




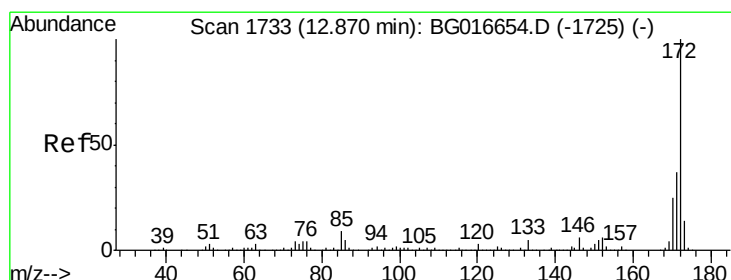
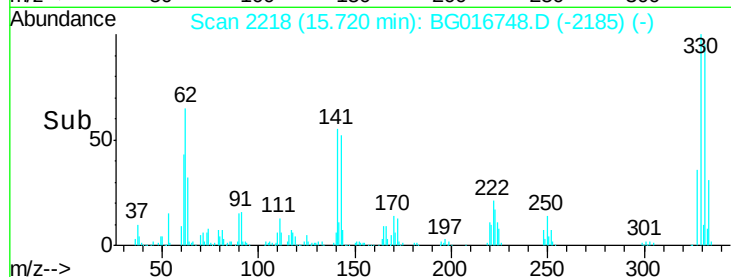
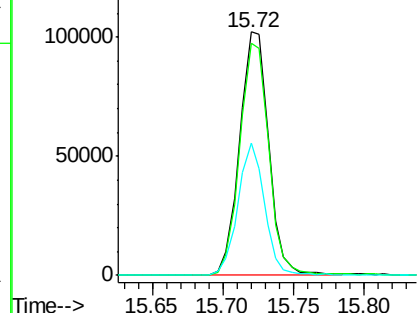
#41  
 2,4,6-Tribromophenol  
 Concen: 109.80 ng  
 RT: 15.72 min Scan# 2218  
 Delta R.T. -0.01 min  
 Lab File: BG016748.D  
 Acq: 28 Apr 2015 2:16

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-2

Tot Ion:330 Resp: 147224  
 Ion Ratio Lower Upper  
 330 100  
 332 95.1 76.2 114.4  
 141 49.8 43.0 64.6

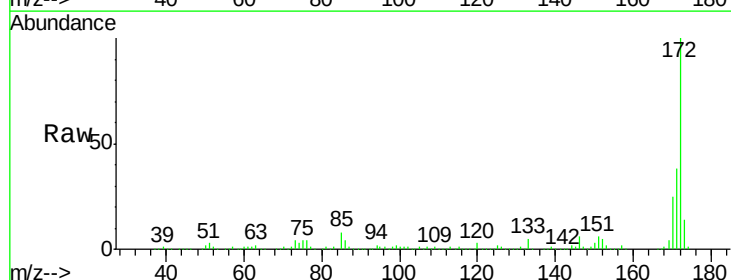


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

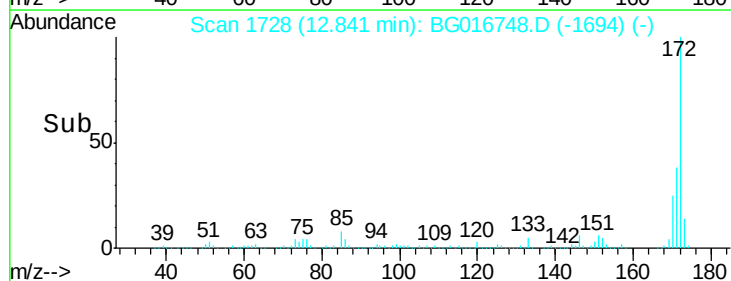
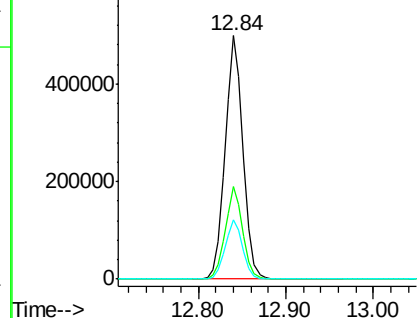


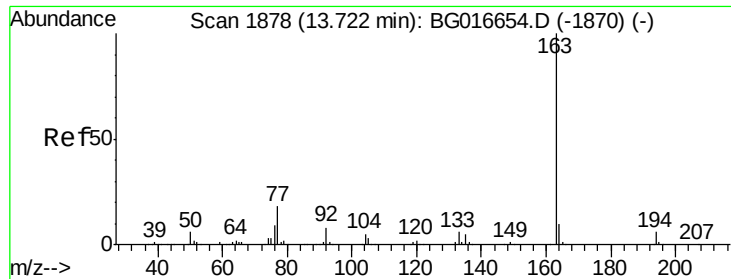
#44  
 2-Fluorobiphenyl  
 Concen: 62.49 ng  
 RT: 12.84 min Scan# 1728  
 Delta R.T. 0.00 min  
 Lab File: BG016748.D  
 Acq: 28 Apr 2015 2:16

Tgt Ion:172 Resp: 703033  
 Ion Ratio Lower Upper  
 172 100  
 171 37.8 29.9 44.9  
 170 24.5 19.8 29.8



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 2.63 ng

RT: 13.69 min Scan# 1873

Delta R.T. -0.01 min

Lab File: BG016748.D

Acq: 28 Apr 2015 2:16

Instrument :

BNA\_G

ClientSampleId :

SB-2

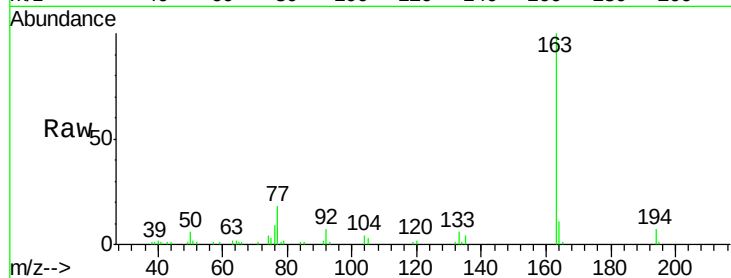
Tot Ion:163 Resp: 35593

Ion Ratio Lower Upper

163 100

194 7.1 5.0 7.4

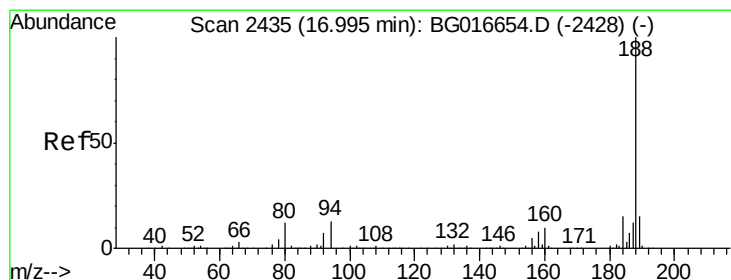
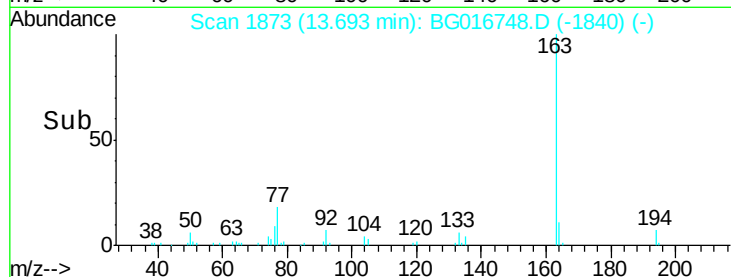
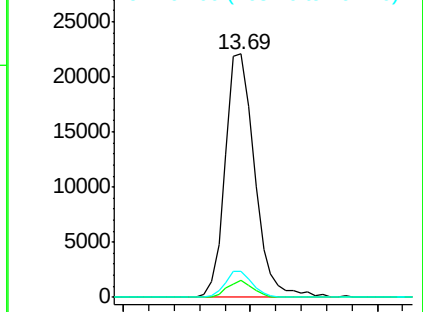
164 10.6 7.8 11.8



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 16.97 min Scan# 2431

Delta R.T. 0.00 min

Lab File: BG016748.D

Acq: 28 Apr 2015 2:16

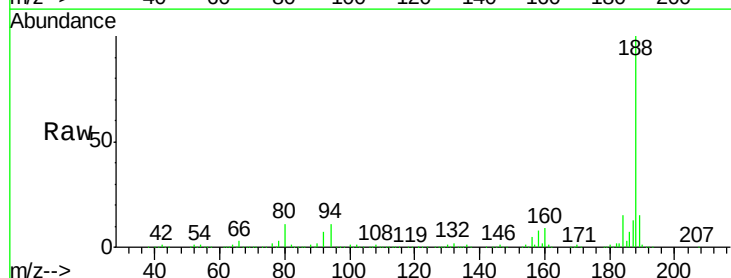
Tgt Ion:188 Resp: 374840

Ion Ratio Lower Upper

188 100

94 11.2 10.7 16.1

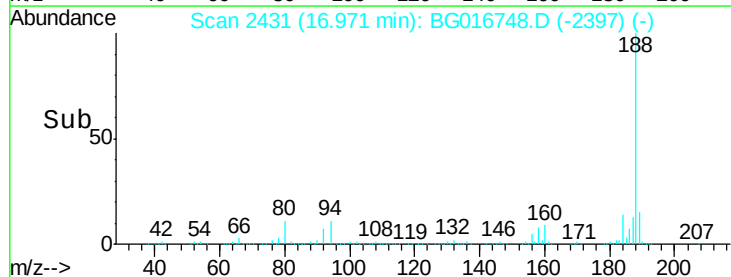
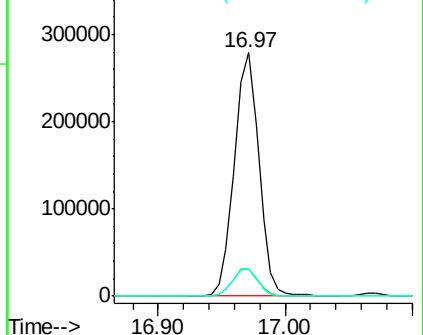
80 11.0 9.9 14.9

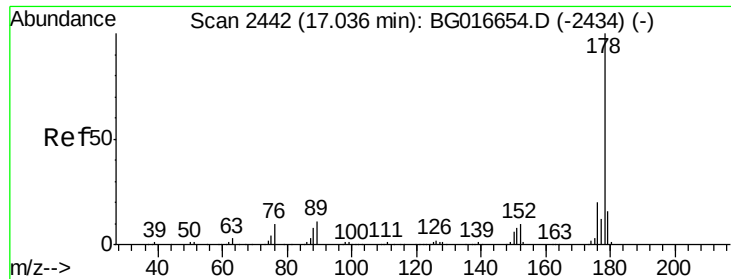


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC





#70

Phenanthrene

Concen: 2.45 ng

RT: 17.01 min Scan# 2438

Delta R.T. -0.01 min

Lab File: BG016748.D

Acq: 28 Apr 2015 2:16

Instrument :

BNA\_G

ClientSampled :

SB-2

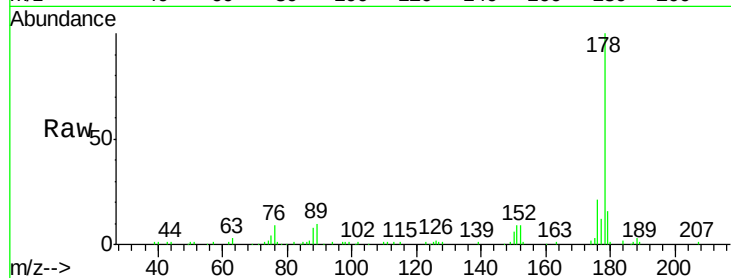
Tot Ion:178 Resp: 52832

Ion Ratio Lower Upper

178 100

176 21.0 15.8 23.6

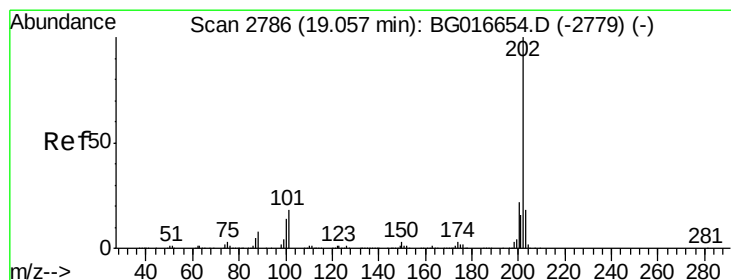
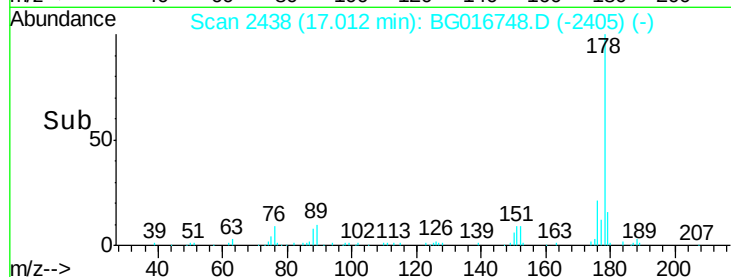
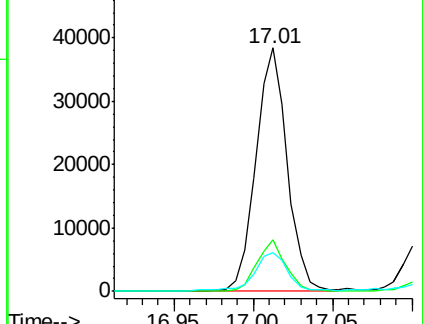
179 16.1 12.8 19.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 6.44 ng

RT: 19.03 min Scan# 2782

Delta R.T. 0.00 min

Lab File: BG016748.D

Acq: 28 Apr 2015 2:16

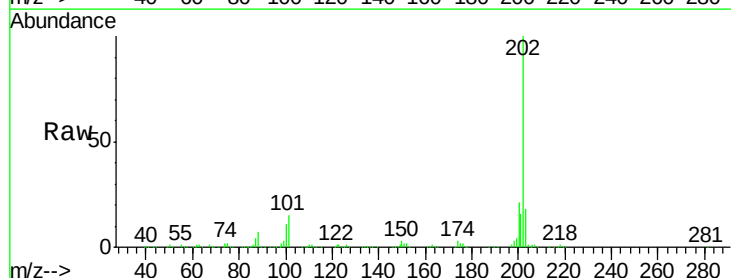
Tgt Ion:202 Resp: 147012

Ion Ratio Lower Upper

202 100

101 15.0 0.0 38.1

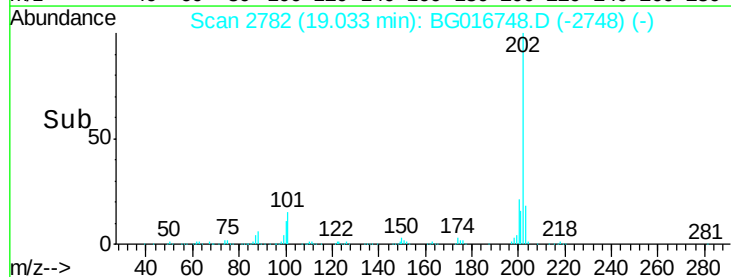
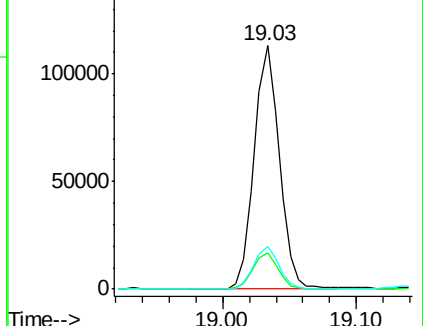
203 17.8 0.0 38.4



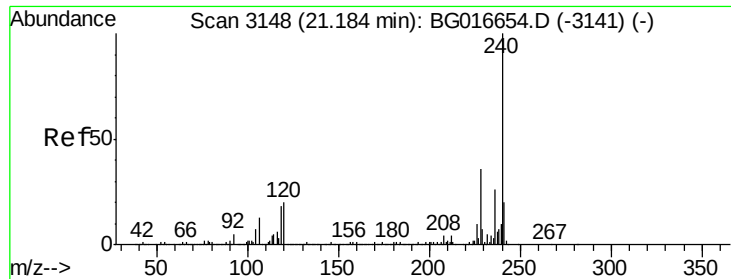
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



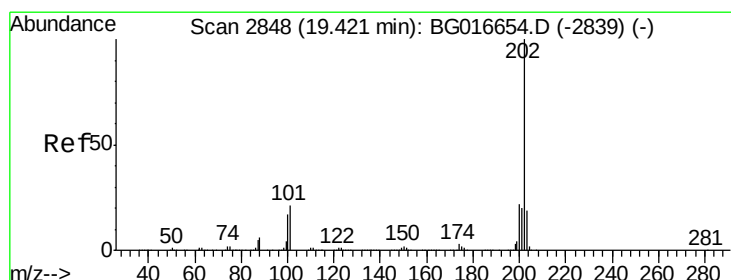
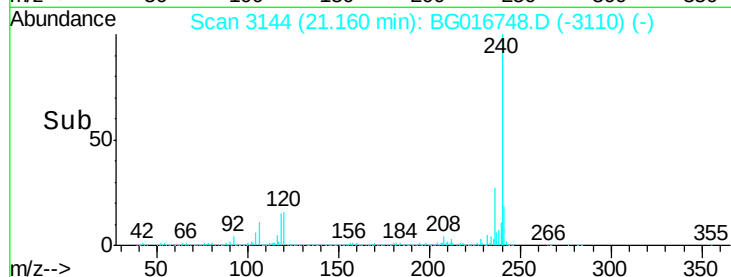
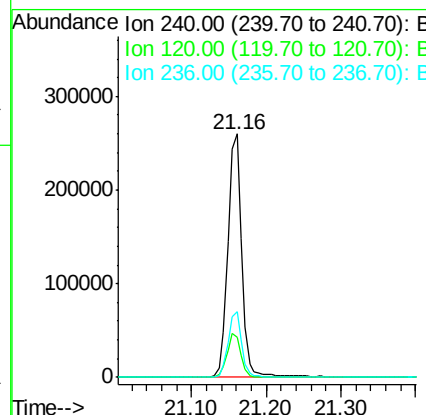
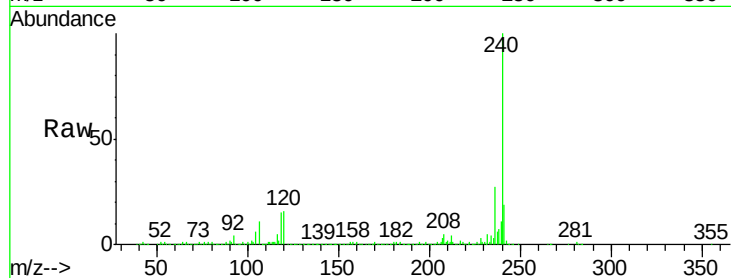




#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.16 min Scan# 3144  
Delta R.T. 0.00 min  
Lab File: BG016748.D  
Acq: 28 Apr 2015 2:16

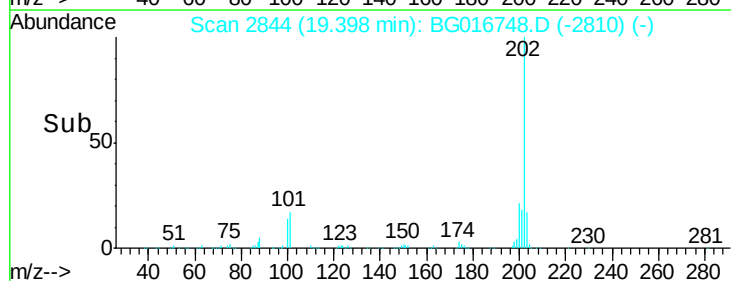
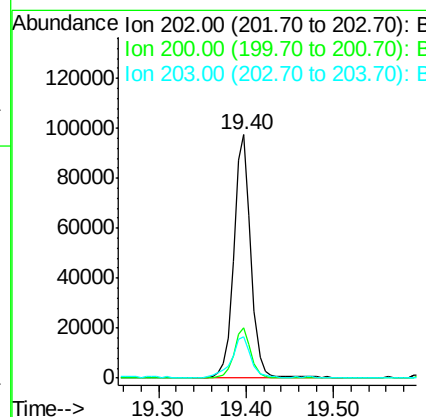
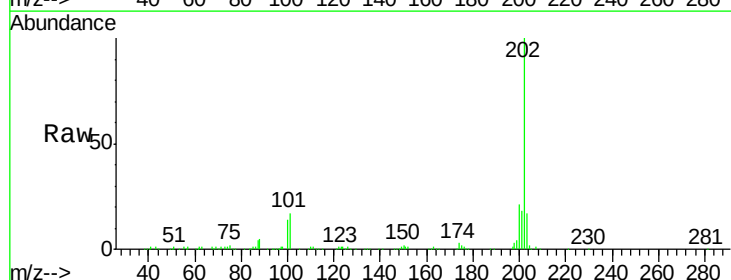
Instrument :  
BNA\_G  
ClientSampleId :  
SB-2

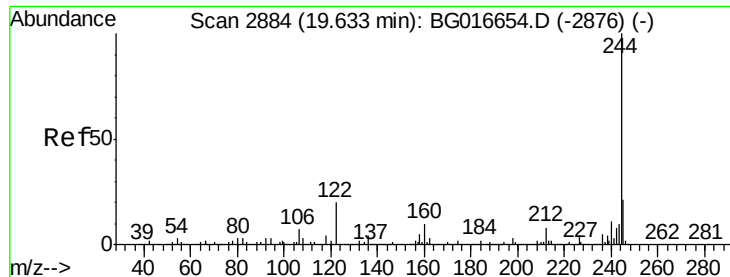
Tot Ion:240 Resp: 339937  
Ion Ratio Lower Upper  
240 100  
120 16.4 16.3 24.5  
236 26.9 21.1 31.7



#77  
Pyrene  
Concen: 5.43 ng  
RT: 19.40 min Scan# 2844  
Delta R.T. 0.00 min  
Lab File: BG016748.D  
Acq: 28 Apr 2015 2:16

Tgt Ion:202 Resp: 129750  
Ion Ratio Lower Upper  
202 100  
200 20.9 18.0 27.0  
203 17.2 14.9 22.3





#78

Terphenyl-d14

Concen: 55.59 ng

RT: 19.61 min Scan# 2880

Delta R.T. 0.00 min

Lab File: BG016748.D

Acq: 28 Apr 2015 2:16

Instrument :

BNA\_G

ClientSampleId :

SB-2

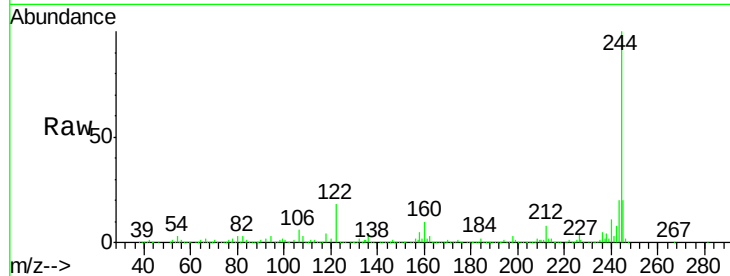
Tot Ion:244 Resp: 820303

Ion Ratio Lower Upper

244 100

212 7.8 6.4 9.6

122 17.8 15.9 23.9

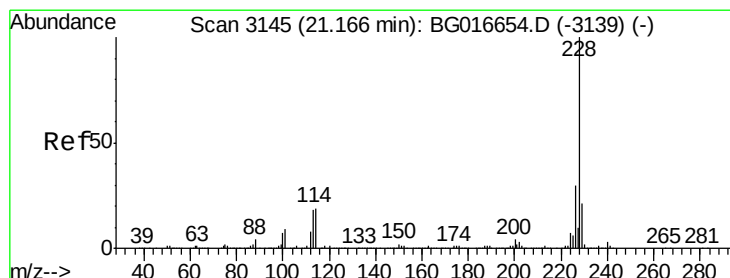
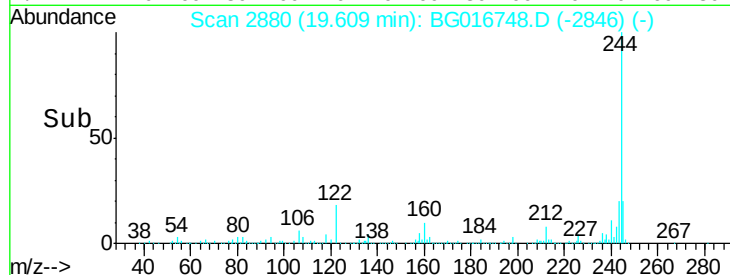
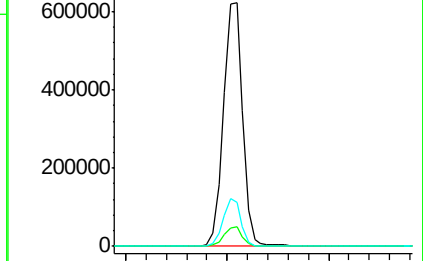


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

19.61



#80

Benzo(a)anthracene

Concen: 3.08 ng m

RT: 21.14 min Scan# 3141

Delta R.T. -0.01 min

Lab File: BG016748.D

Acq: 28 Apr 2015 2:16

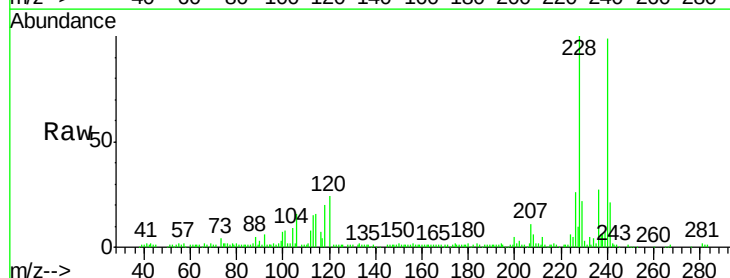
Tgt Ion:228 Resp: 63476

Ion Ratio Lower Upper

228 100

226 26.2 23.8 35.6

229 22.3 17.0 25.4

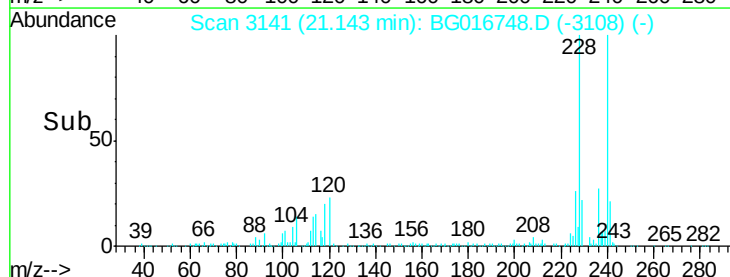
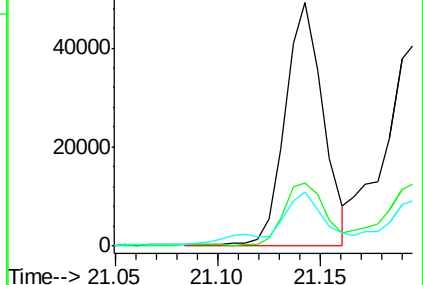


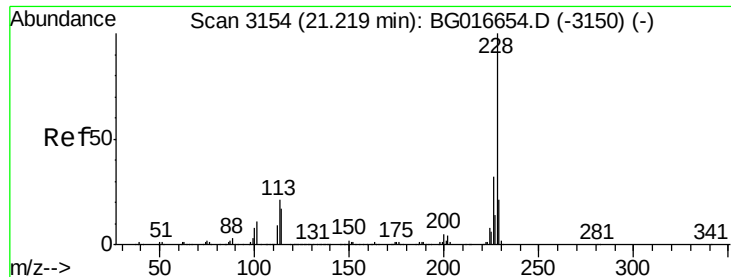
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

21.14

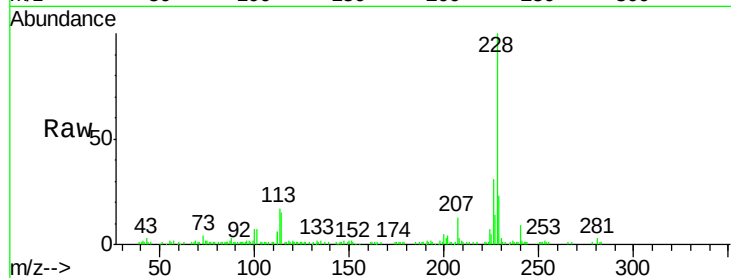




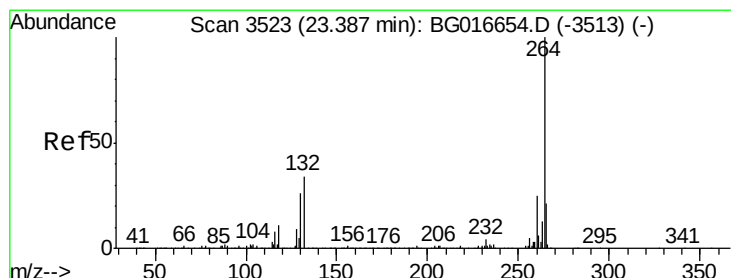
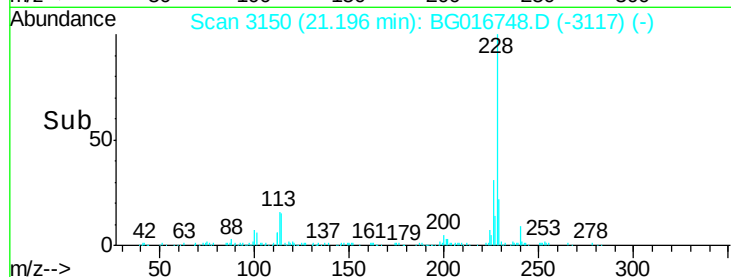
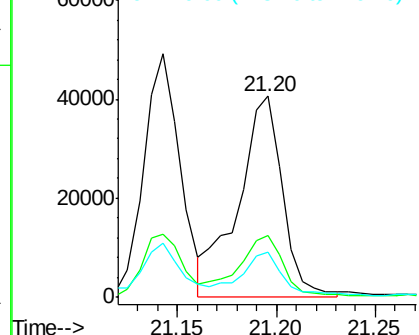
#82  
Chrysene  
Concen: 3.18 ng/mL  
RT: 21.20 min Scan# 3150  
Delta R.T. -0.01 min  
Lab File: BG016748.D  
Acq: 28 Apr 2015 2:16

Instrument :  
BNA\_G  
ClientSampleId :  
SB-2

Tot Ion:228 Resp: 62922  
Ion Ratio Lower Upper  
228 100  
226 30.8 25.4 38.0  
229 22.7 16.5 24.7

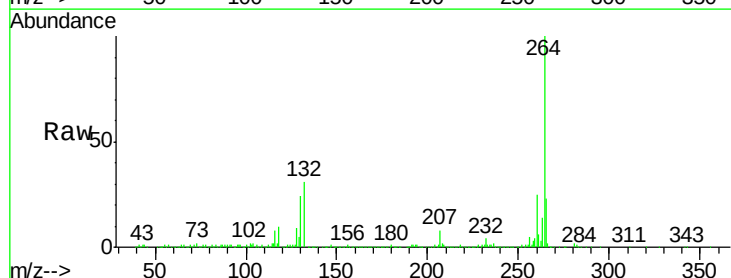


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

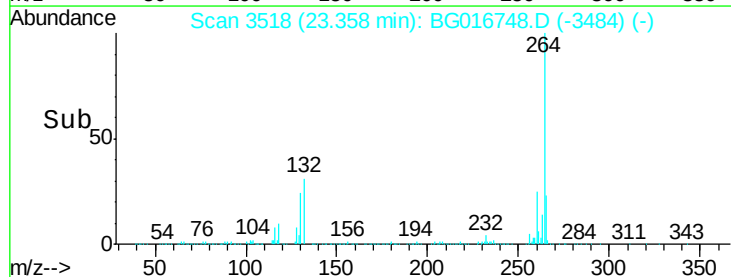
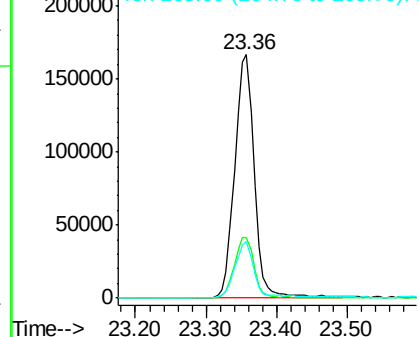


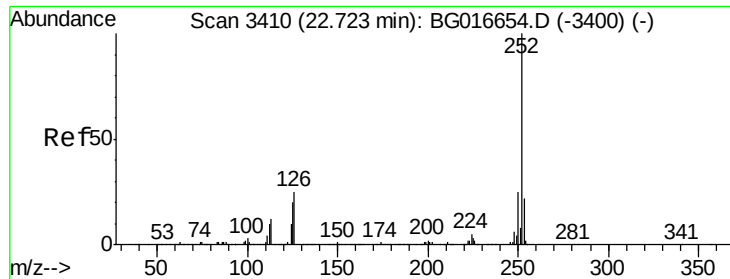
#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.36 min Scan# 3518  
Delta R.T. 0.00 min  
Lab File: BG016748.D  
Acq: 28 Apr 2015 2:16

Tgt Ion:264 Resp: 322014  
Ion Ratio Lower Upper  
264 100  
260 24.9 20.0 30.0  
265 23.1 16.8 25.2



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

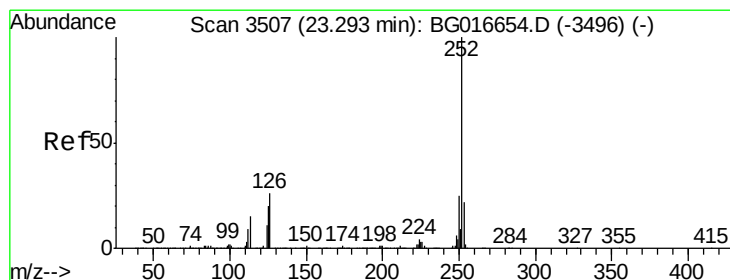
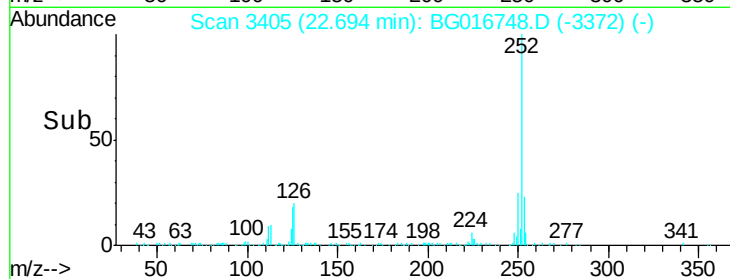
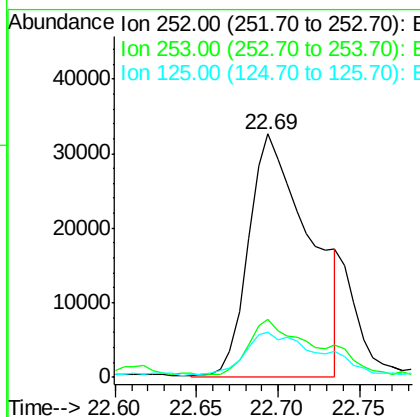
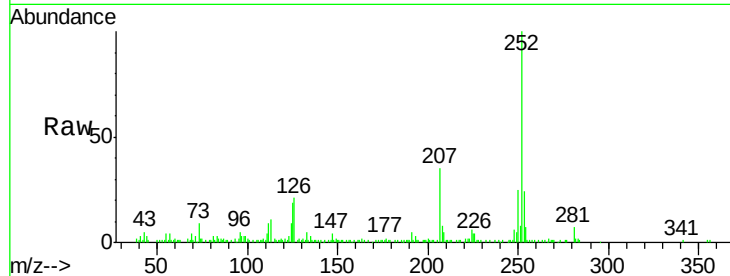




#87  
Benzo(b)fluoranthene  
Concen: 4.36 ng m  
RT: 22.69 min Scan# 3405  
Delta R.T. -0.01 min  
Lab File: BG016748.D  
Acq: 28 Apr 2015 2:16

Instrument :  
BNA\_G  
ClientSampleId :  
SB-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 17.9  | 26.9  |
| 125     | 18.8  | 15.8  | 23.8  |



#89  
Benzo(a)pyrene  
Concen: 2.62 ng  
RT: 23.26 min Scan# 3501  
Delta R.T. -0.01 min  
Lab File: BG016748.D  
Acq: 28 Apr 2015 2:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.6  | 17.2  | 25.8  |
| 125     | 18.8  | 16.3  | 24.5  |

