

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG052815\  
 Data File : BG017346.D  
 Acq On : 29 May 2015 5:53  
 Operator : TP/IZ  
 Sample : G2415-02  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 1505193126

Quant Time: May 29 07:29:51 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG051315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri May 29 05:38:51 2015  
 Response via : Initial Calibration

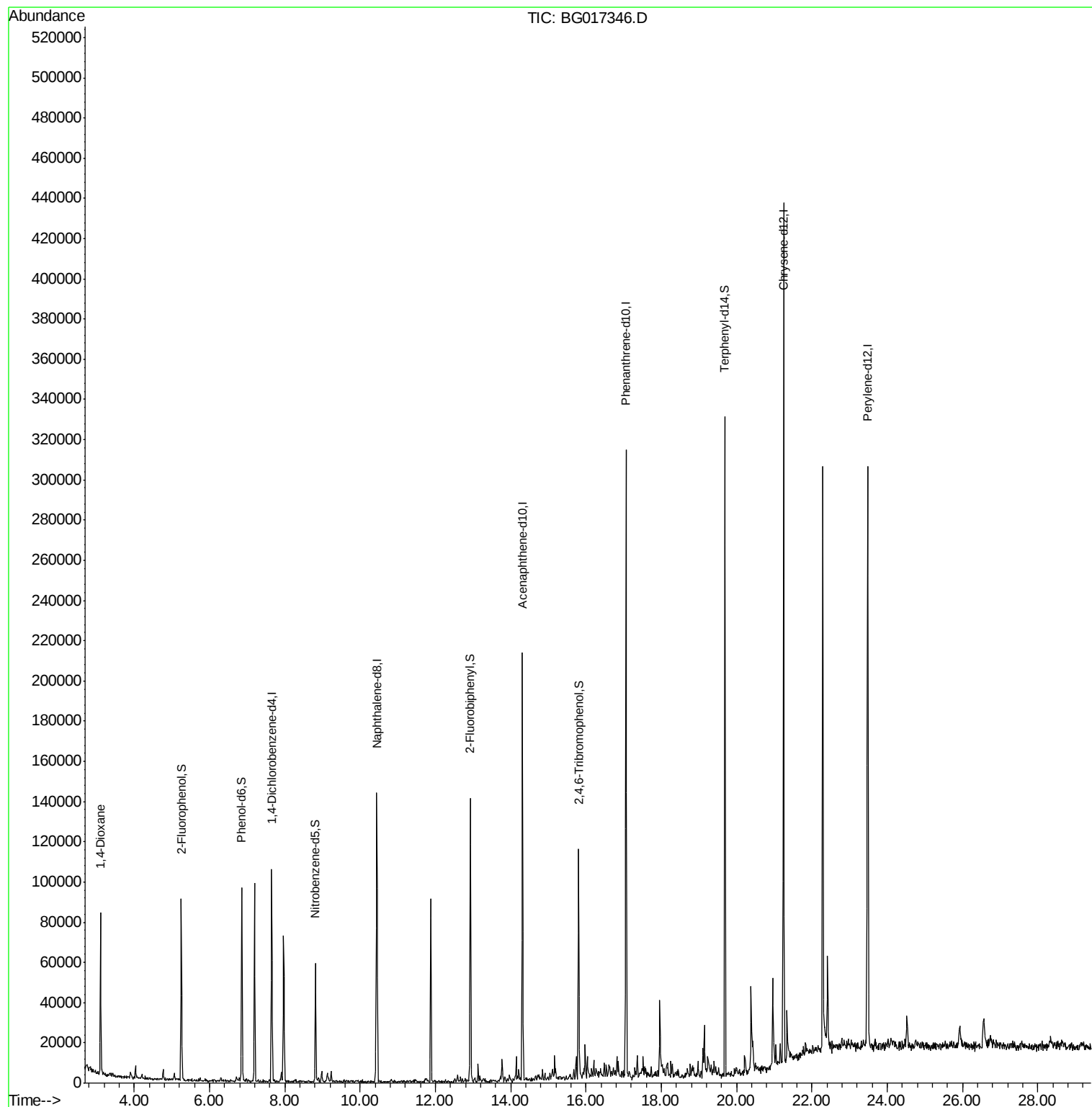
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min)      |
|-----------------------------|-------|------|----------|-------|-------|---------------|
| 1) 1,4-Dichlorobenzene-d4   | 7.65  | 152  | 24354    | 20.00 | ng    | 0.00          |
| 21) Naphthalene-d8          | 10.45 | 136  | 102086   | 20.00 | ng    | 0.00          |
| 38) Acenaphthene-d10        | 14.31 | 164  | 66338    | 20.00 | ng    | 0.00          |
| 63) Phenanthrene-d10        | 17.06 | 188  | 156850   | 20.00 | ng    | 0.00          |
| 75) Chrysene-d12            | 21.25 | 240  | 185963   | 20.00 | ng    | 0.00          |
| 86) Perylene-d12            | 23.49 | 264  | 189603   | 20.00 | ng    | 0.00          |
| System Monitoring Compounds |       |      |          |       |       |               |
| 5) 2-Fluorophenol           | 5.25  | 112  | 30510    | 22.23 | ng    | 0.00          |
| 7) Phenol-d6                | 6.85  | 99   | 43069    | 22.36 | ng    | 0.00          |
| 23) Nitrobenzene-d5         | 8.82  | 82   | 29441    | 13.46 | ng    | 0.00          |
| 41) 2,4,6-Tribromophenol    | 15.81 | 330  | 16951    | 21.14 | ng    | 0.00          |
| 44) 2-Fluorobiphenyl        | 12.93 | 172  | 64889    | 14.35 | ng    | 0.00          |
| 78) Terphenyl-d14           | 19.69 | 244  | 119256   | 13.36 | ng    | 0.00          |
| Target Compounds            |       |      |          |       |       |               |
| 2) 1,4-Dioxane              | 3.09  | 88   | 4028     | 7.44  | ng    | Qvalue<br># 1 |

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

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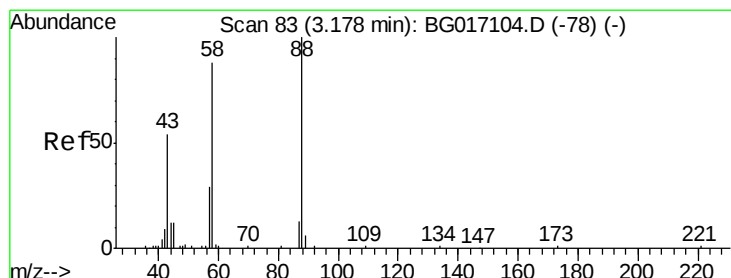
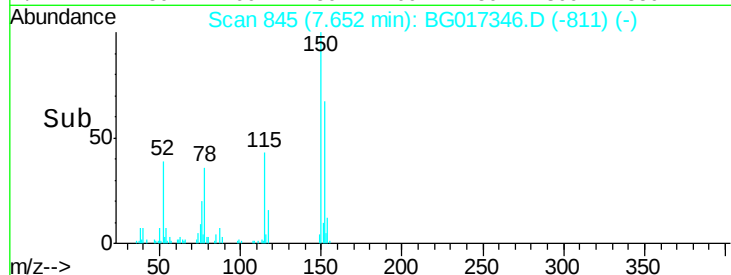
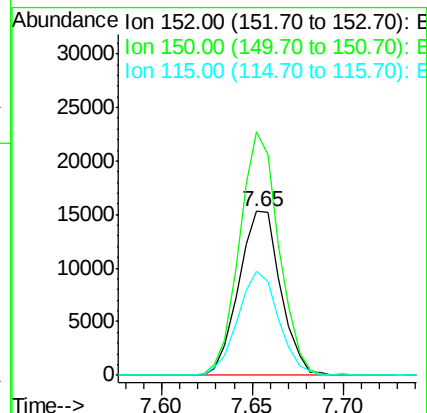
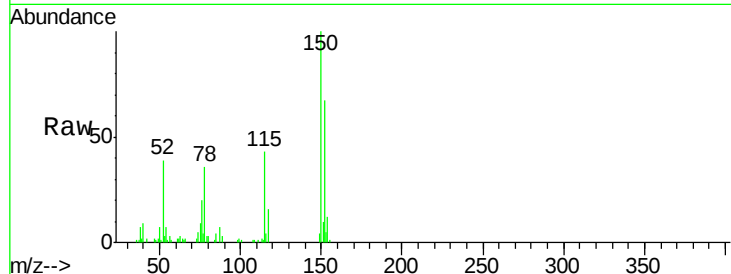


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.65 min Scan# 845  
 Delta R.T. -0.00 min  
 Lab File: BG017346.D  
 Acq: 29 May 2015 5:53

Instrument :  
 BNA\_G  
 ClientSampleId :  
 1505193126

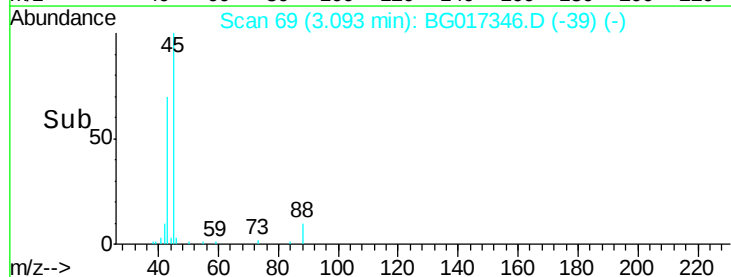
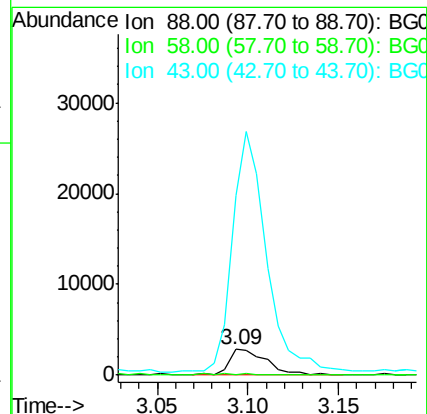
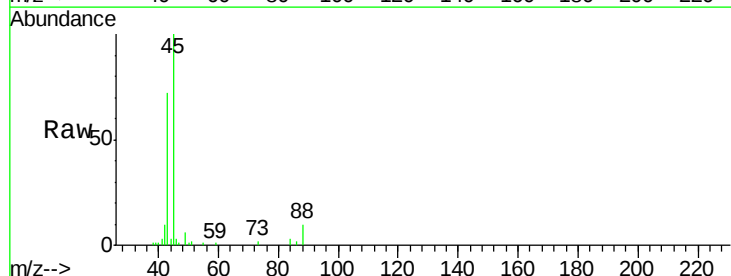
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 148.6 | 120.8 | 181.2 |
| 115     | 63.8  | 49.4  | 74.2  |

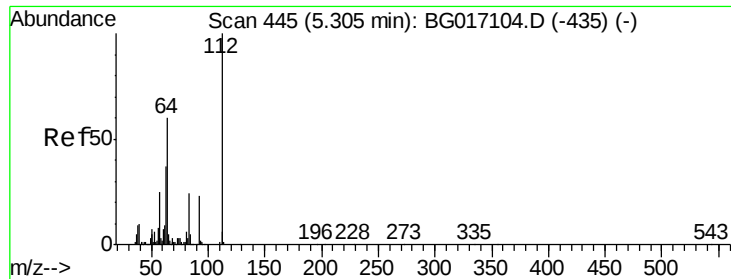


#2

1,4-Dioxane  
 Concen: 7.44 ng  
 RT: 3.09 min Scan# 69  
 Delta R.T. -0.02 min  
 Lab File: BG017346.D  
 Acq: 29 May 2015 5:53

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 88      | 100   |       |        |
| 58      | 3.5   | 68.6  | 103.0# |
| 43      | 853.2 | 40.3  | 60.5#  |





#5

2-Fluorophenol

Concen: 22.23 ng

RT: 5.25 min Scan# 436

Delta R.T. -0.00 min

Lab File: BG017346.D

Acq: 29 May 2015 5:53

Instrument :

BNA\_G

ClientSampleId :

1505193126

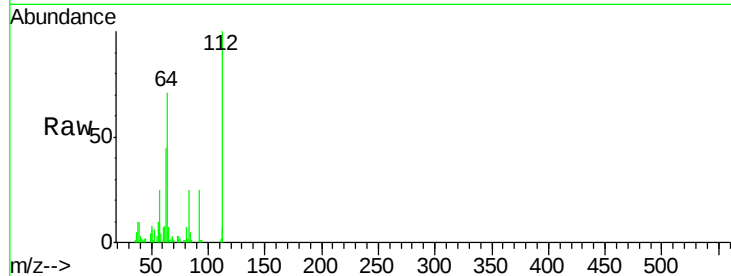
Tgt Ion: 112 Resp: 30510

Ion Ratio Lower Upper

112 100

64 71.4 48.1 72.1

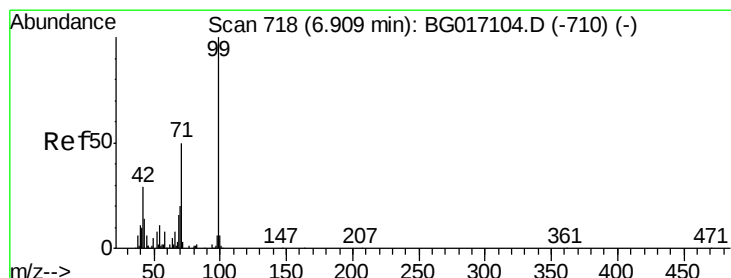
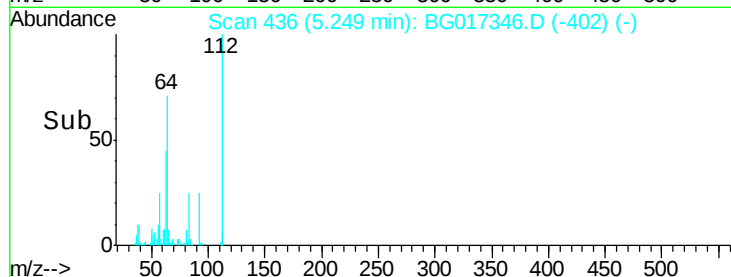
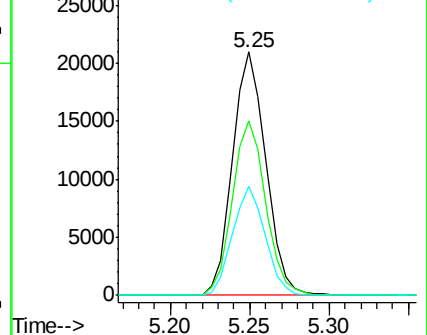
63 44.8 29.8 44.8#



Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#7

Phenol-d6

Concen: 22.36 ng

RT: 6.85 min Scan# 709

Delta R.T. -0.01 min

Lab File: BG017346.D

Acq: 29 May 2015 5:53

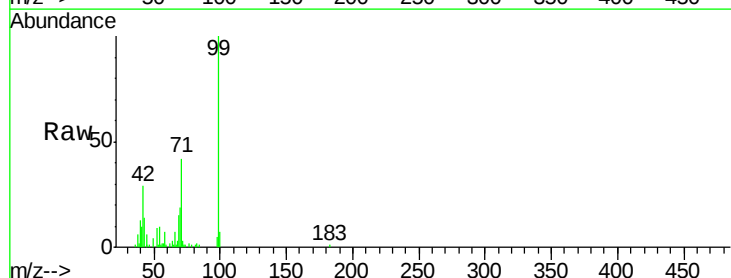
Tgt Ion: 99 Resp: 43069

Ion Ratio Lower Upper

99 100

42 28.9 23.5 35.3

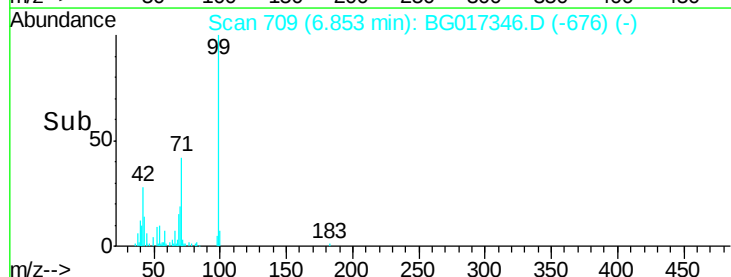
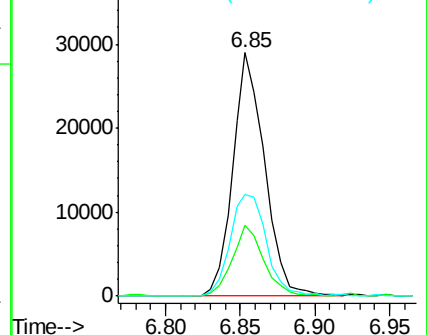
71 41.9 39.8 59.8

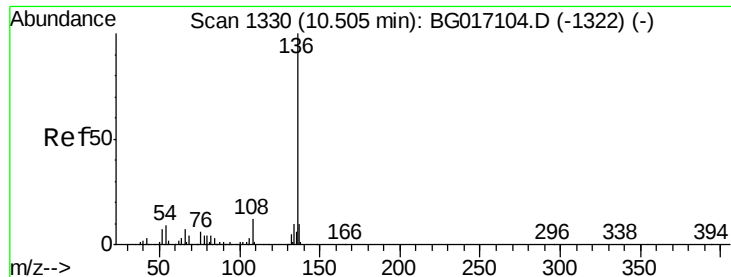


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC

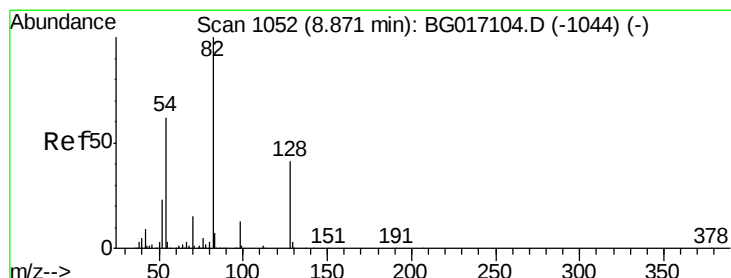
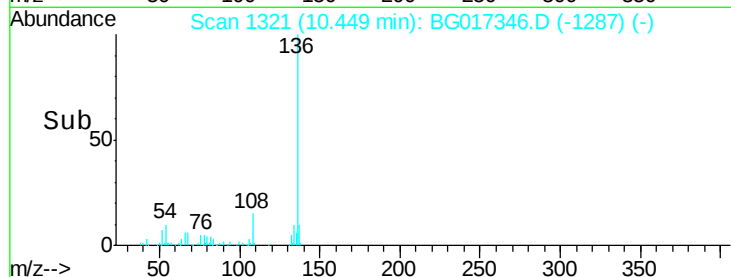
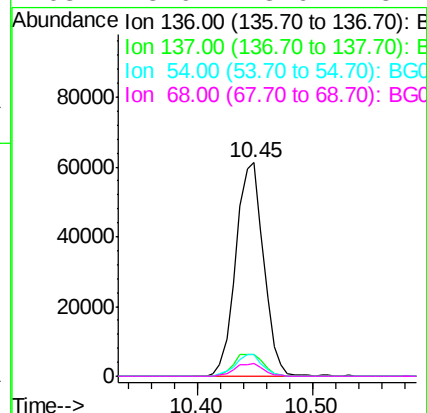
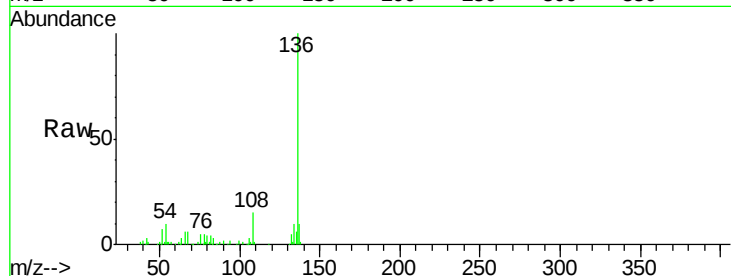




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.45 min Scan# 1321  
Delta R.T. -0.00 min  
Lab File: BG017346.D  
Acq: 29 May 2015 5:53

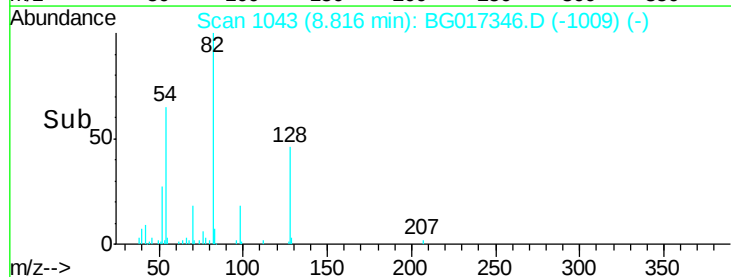
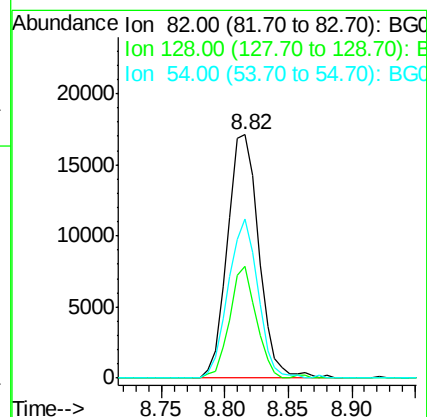
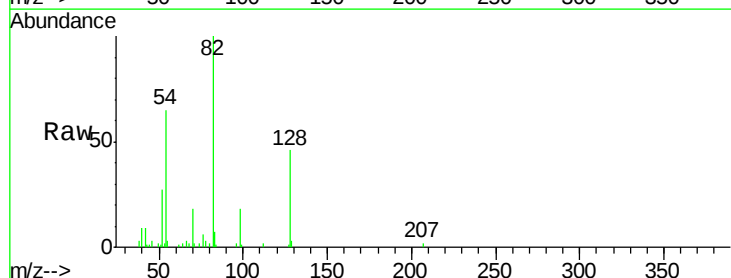
Instrument :  
BNA\_G  
ClientSampleId :  
1505193126

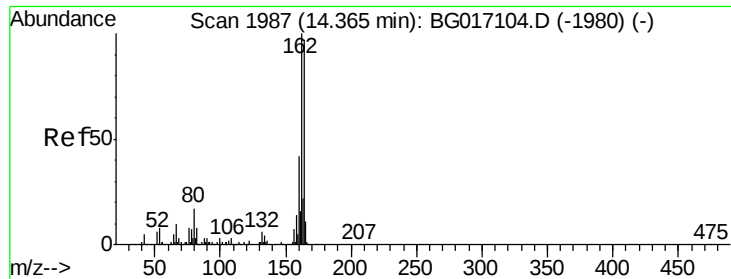
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 102086 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.0  | 8.3   | 12.5   |
| 54       | 10.7  | 7.4   | 11.2   |
| 68       | 5.9   | 3.6   | 5.4#   |



#23  
Nitrobenzene-d5  
Concen: 13.46 ng  
RT: 8.82 min Scan# 1043  
Delta R.T. -0.00 min  
Lab File: BG017346.D  
Acq: 29 May 2015 5:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 29441 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 46.0  | 32.6  | 49.0  |
| 54       | 65.5  | 49.6  | 74.4  |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.31 min Scan# 1978

Delta R.T. -0.01 min

Lab File: BG017346.D

Acq: 29 May 2015 5:53

Instrument :

BNA\_G

ClientSampleId :

1505193126

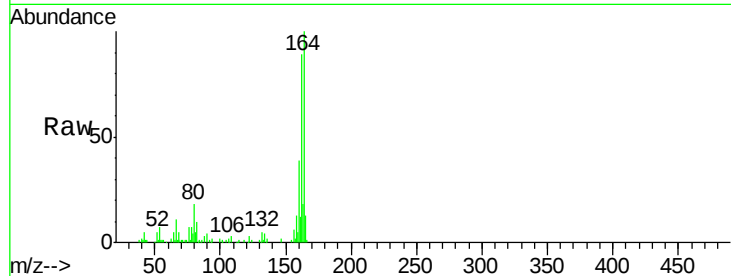
Tgt Ion:164 Resp: 66338

Ion Ratio Lower Upper

164 100

162 88.9 82.1 123.1

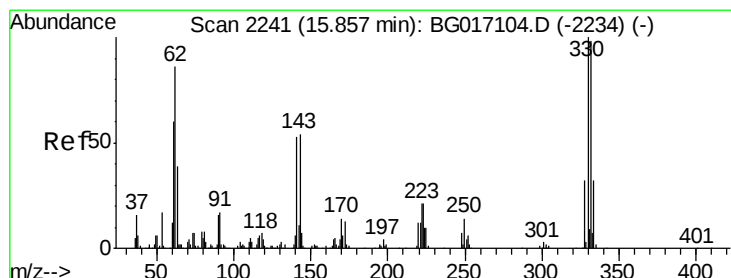
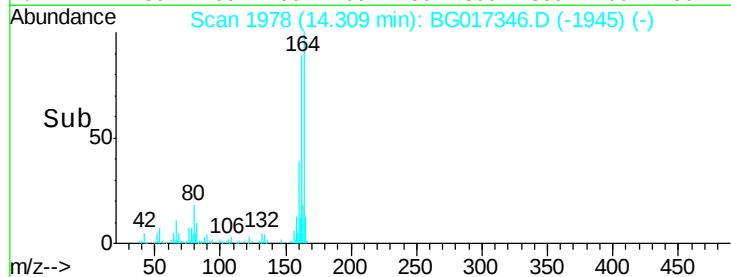
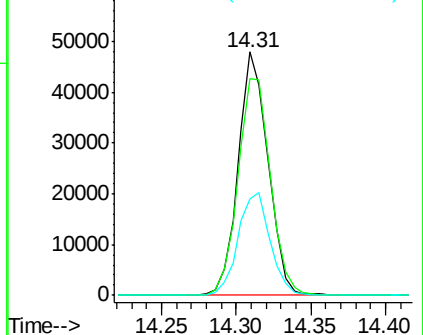
160 39.3 34.8 52.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 21.14 ng

RT: 15.81 min Scan# 2233

Delta R.T. -0.01 min

Lab File: BG017346.D

Acq: 29 May 2015 5:53

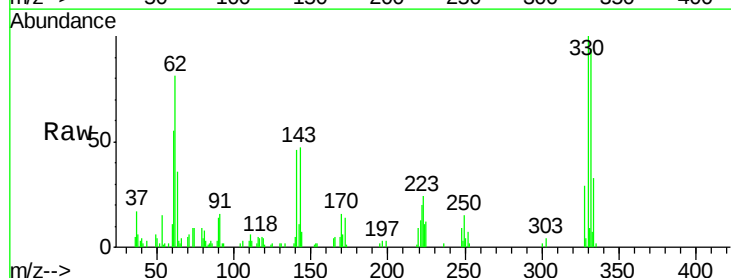
Tgt Ion:330 Resp: 16951

Ion Ratio Lower Upper

330 100

332 94.6 76.9 115.3

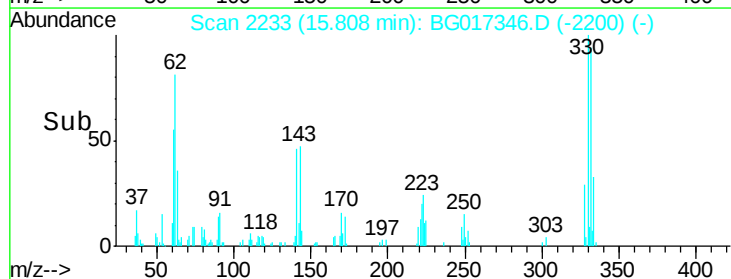
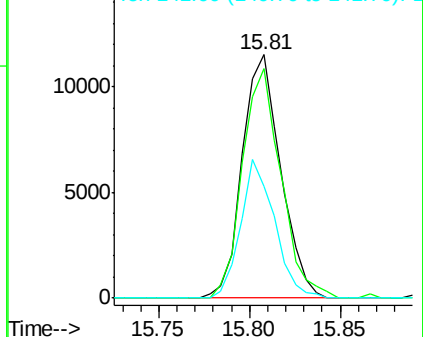
141 50.6 42.2 63.2

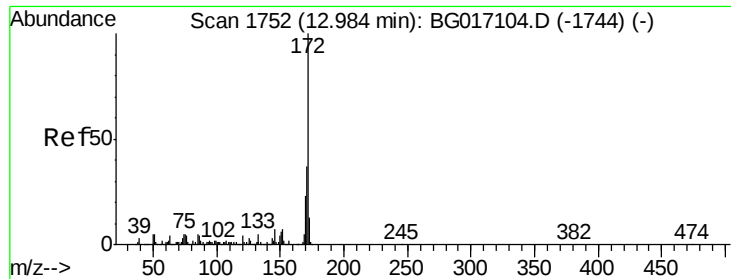


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

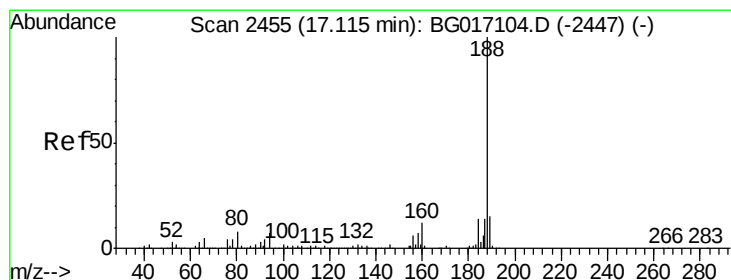
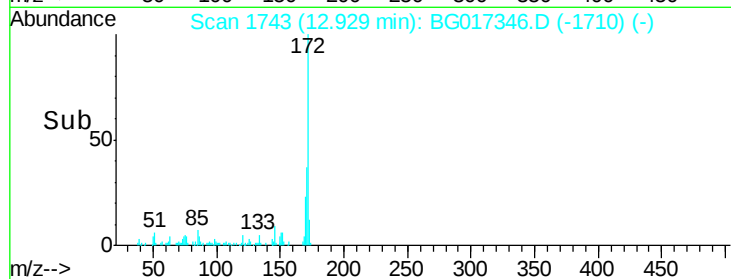
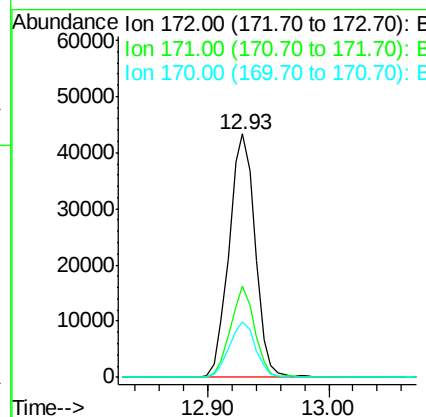
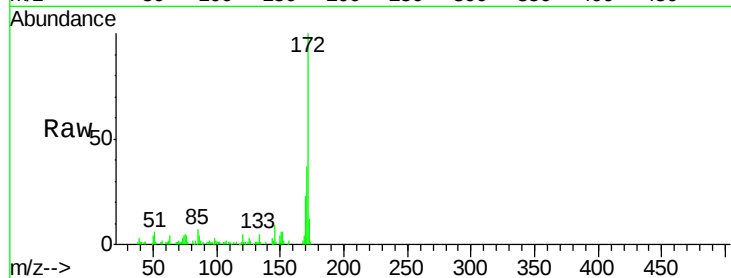




#44  
 2-Fluorobiphenyl  
 Concen: 14.35 ng  
 RT: 12.93 min Scan# 1743  
 Delta R.T. -0.01 min  
 Lab File: BG017346.D  
 Acq: 29 May 2015 5:53

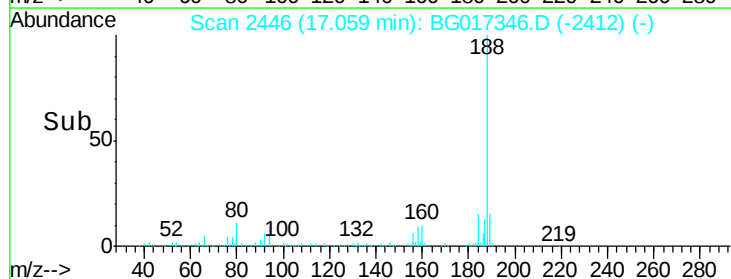
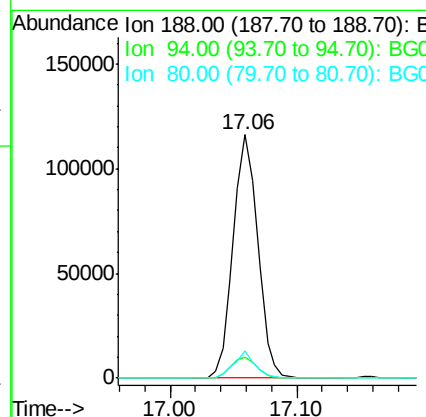
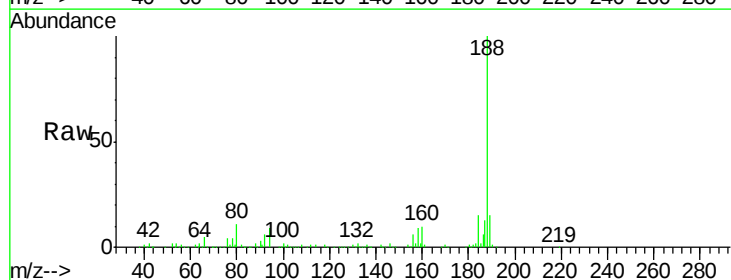
Instrument :  
 BNA\_G  
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 1505193126

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.4  | 29.7  | 44.5  |
| 170     | 22.8  | 18.4  | 27.6  |



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 17.06 min Scan# 2446  
 Delta R.T. -0.00 min  
 Lab File: BG017346.D  
 Acq: 29 May 2015 5:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.5   | 5.8   | 8.6   |
| 80      | 11.5  | 6.5   | 9.7#  |

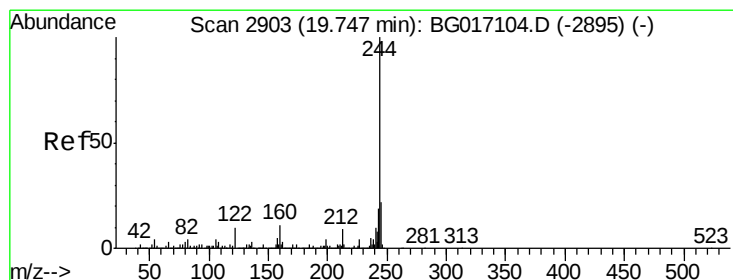
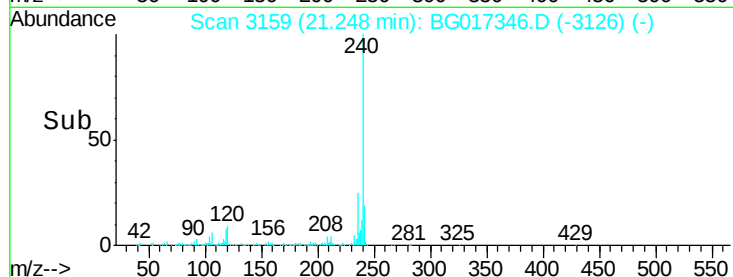
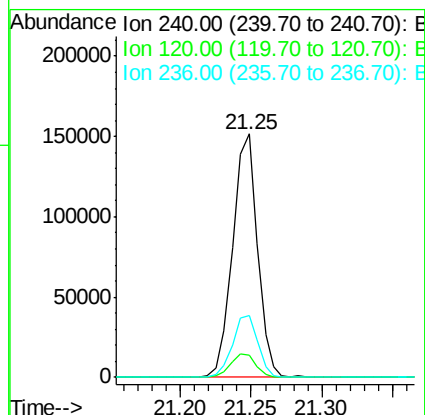
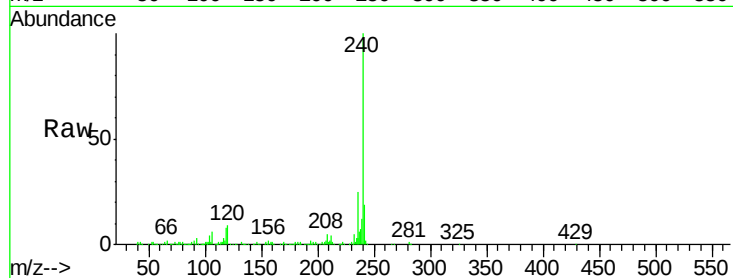




#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.25 min Scan# 3159  
Delta R.T. -0.01 min  
Lab File: BG017346.D  
Acq: 29 May 2015 5:53

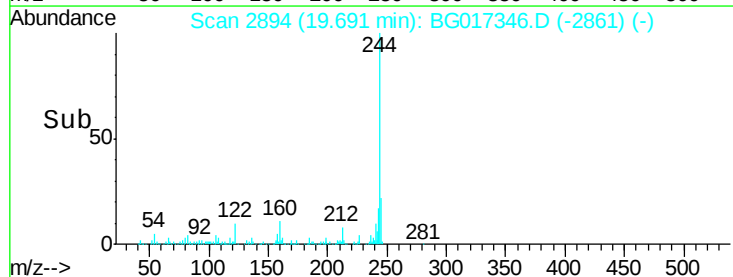
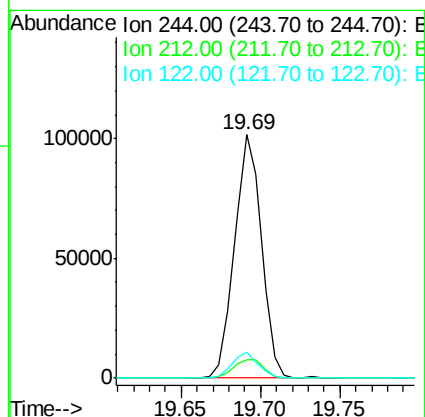
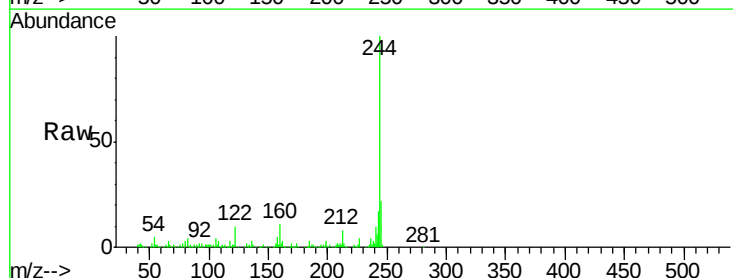
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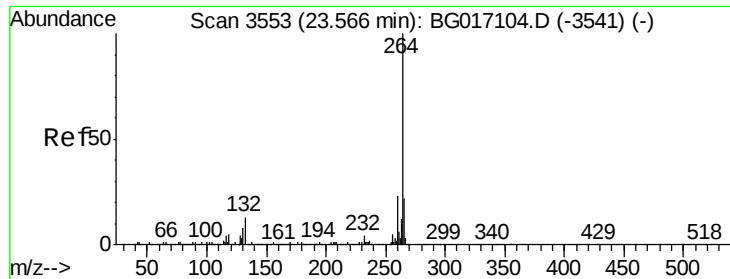
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.0   | 6.0   | 9.0#  |
| 236     | 25.3  | 20.5  | 30.7  |



#78  
Terphenyl-d14  
Concen: 13.36 ng  
RT: 19.69 min Scan# 2894  
Delta R.T. -0.01 min  
Lab File: BG017346.D  
Acq: 29 May 2015 5:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.5   | 7.0   | 10.4  |
| 122     | 10.4  | 8.4   | 12.6  |





#86

Perylene-d12

Concen: 20.00 ng

RT: 23.49 min Scan# 3540

Delta R.T. -0.01 min

Lab File: BG017346.D

Acq: 29 May 2015 5:53

Instrument :

BNA\_G

ClientSampleId :

1505193126

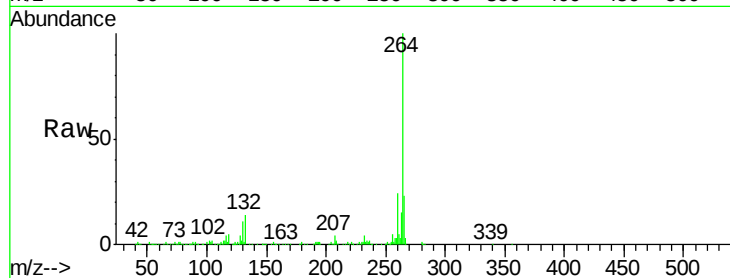
Tgt Ion:264 Resp: 189603

Ion Ratio Lower Upper

264 100

260 24.2 18.0 27.0

265 22.6 17.4 26.0



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

