

Data Path : U:\HPCHEM1\BNA G\DATA\BG020518\  
 Data File : BG032552.D  
 Acq On : 6 Feb 2018 2:32  
 Operator : SJ/JU  
 Sample : J1453-08  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P-2

Quant Time: Feb 06 04:52:03 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG012918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 29 15:32:55 2018  
 Response via : Initial Calibration

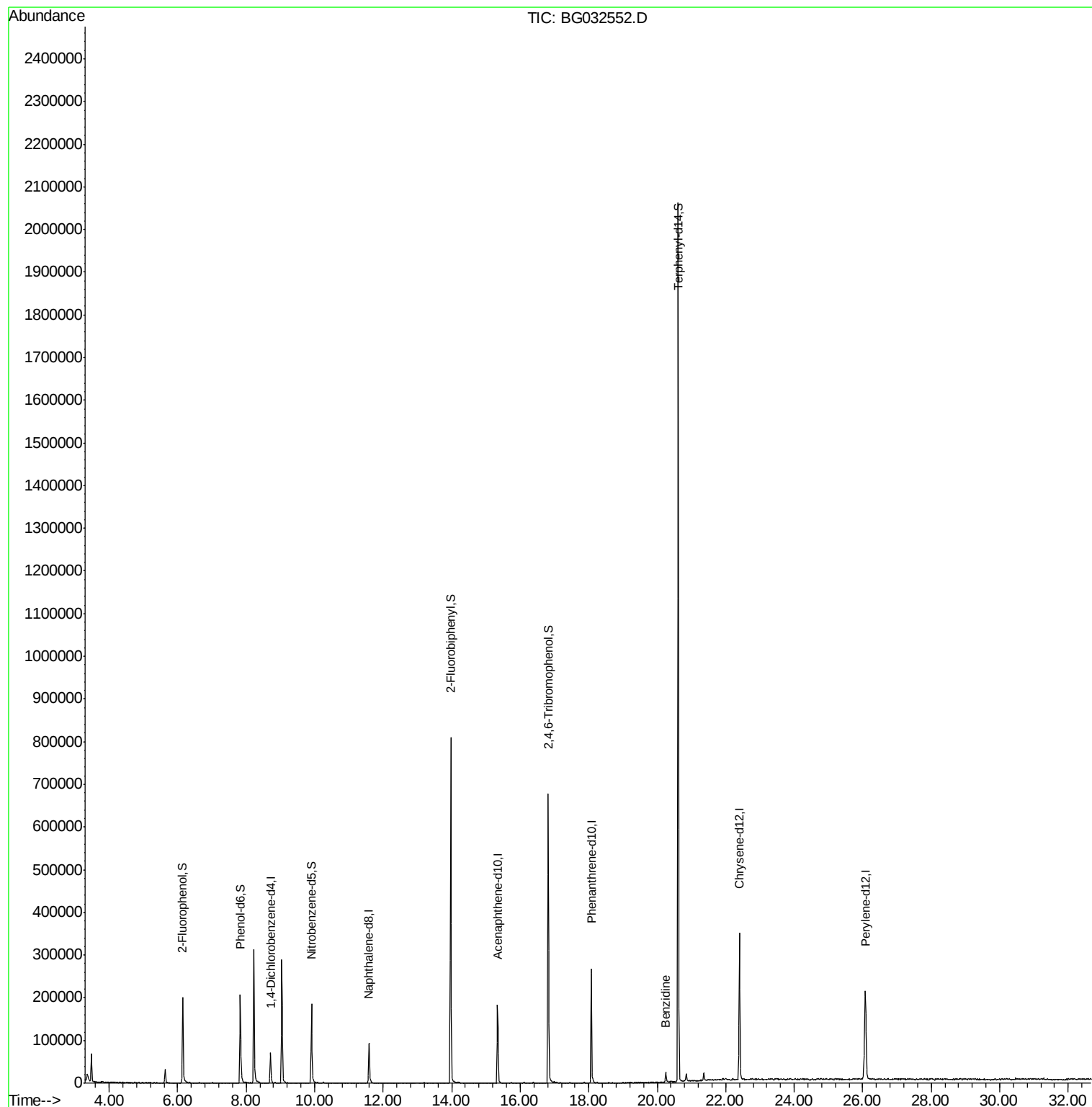
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)       |
|-----------------------------|-------|------|----------|--------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.71  | 152  | 25360    | 20.00  | ng    | -0.01          |
| 21) Naphthalene-d8          | 11.59 | 136  | 106004   | 20.00  | ng    | -0.01          |
| 38) Acenaphthene-d10        | 15.34 | 164  | 74855    | 20.00  | ng    | -0.01          |
| 63) Phenanthrene-d10        | 18.08 | 188  | 203188   | 20.00  | ng    | 0.00           |
| 75) Chrysene-d12            | 22.40 | 240  | 271398   | 20.00  | ng    | -0.01          |
| 86) Perylene-d12            | 26.08 | 264  | 296597   | 20.00  | ng    | -0.01          |
| System Monitoring Compounds |       |      |          |        |       |                |
| 5) 2-Fluorophenol           | 6.15  | 112  | 116598   | 92.35  | ng    | 0.00           |
| 7) Phenol-d6                | 7.83  | 99   | 147434   | 87.51  | ng    | 0.00           |
| 23) Nitrobenzene-d5         | 9.91  | 82   | 126210   | 74.37  | ng    | -0.01          |
| 41) 2,4,6-Tribromophenol    | 16.82 | 330  | 181233   | 127.19 | ng    | -0.01          |
| 44) 2-Fluorobiphenyl        | 13.97 | 172  | 508893   | 80.80  | ng    | -0.01          |
| 78) Terphenyl-d14           | 20.62 | 244  | 1107771  | 87.43  | ng    | 0.00           |
| Target Compounds            |       |      |          |        |       |                |
| 76) Benzidine               | 20.25 | 184  | 20071    | 3.766  | ng    | Qvalue<br># 94 |

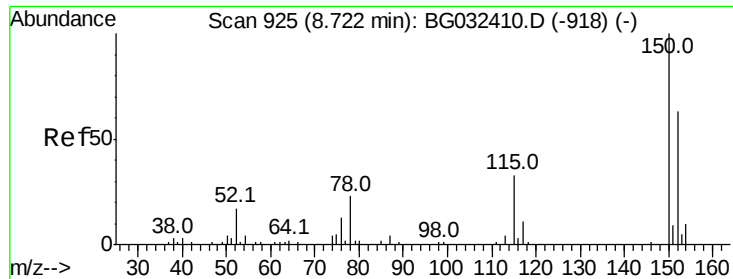
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 29 15:32:55 2018  
Response via : Initial Calibration



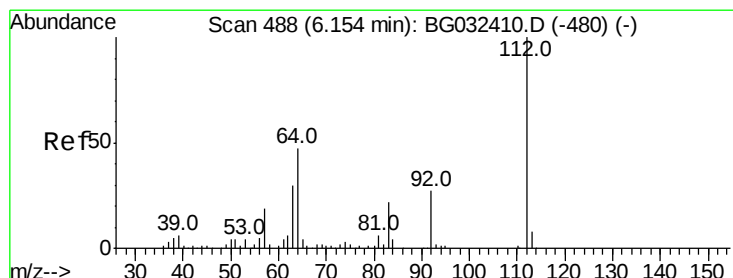
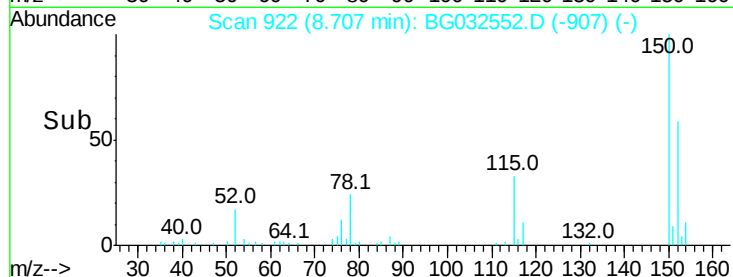
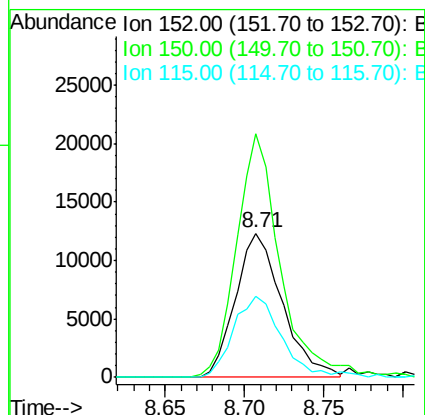
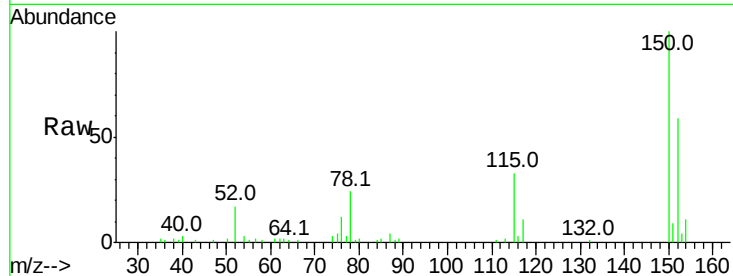


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.71 min Scan# 922  
 Delta R.T. -0.01 min  
 Lab File: BG032552.D  
 Acq: 6 Feb 2018 2:32

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P-2

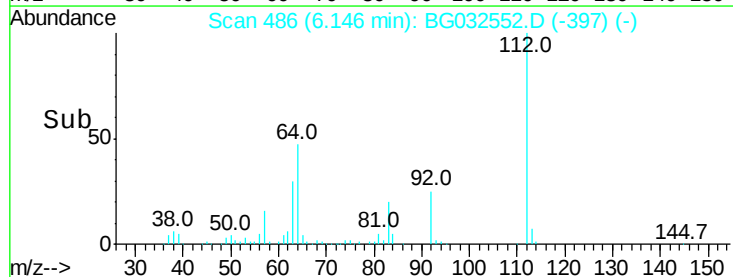
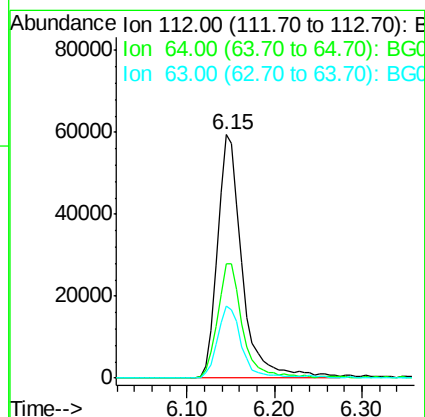
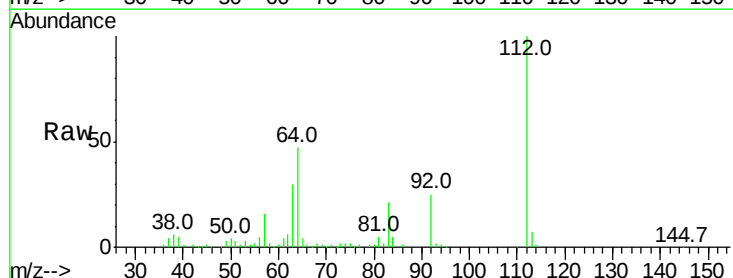
Tot Ion:152 Resp: 25360  
 Ion Ratio Lower Upper  
 152 100  
 150 168.7 126.6 189.8  
 115 56.1 53.0 79.4

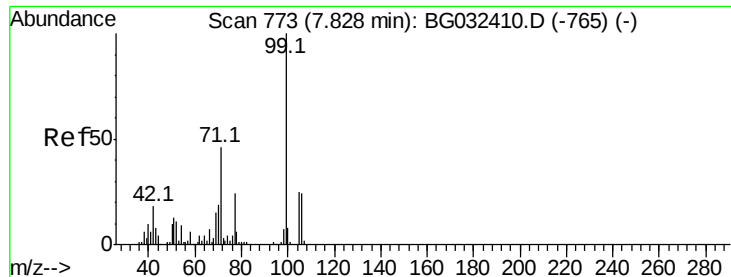


#5

2-Fluorophenol  
 Concen: 92.348 ng  
 RT: 6.15 min Scan# 486  
 Delta R.T. -0.01 min  
 Lab File: BG032552.D  
 Acq: 6 Feb 2018 2:32

Tgt Ion:112 Resp: 116598  
 Ion Ratio Lower Upper  
 112 100  
 64 46.9 56.3 84.5#  
 63 29.7 30.1 45.1#





#7

Phenol-d6

Concen: 87.507 ng

RT: 7.83 min Scan# 772

Delta R.T. -0.00 min

Lab File: BG032552.D

Acq: 6 Feb 2018 2:32

Instrument :

BNA\_G

ClientSampleId :

P-2

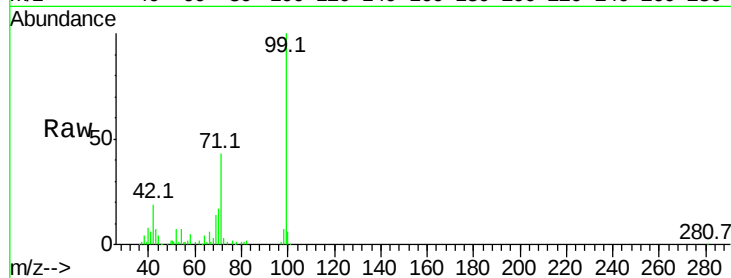
Tot Ion: 99 Resp: 147434

Ion Ratio Lower Upper

99 100

42 19.0 14.1 21.1

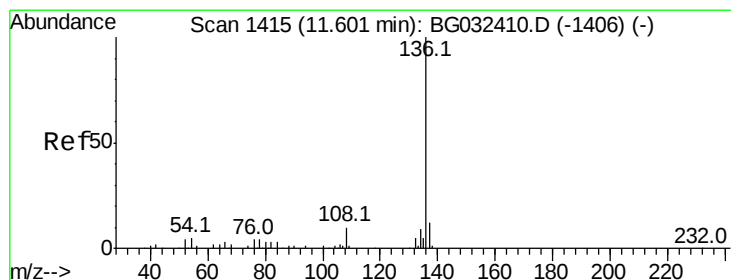
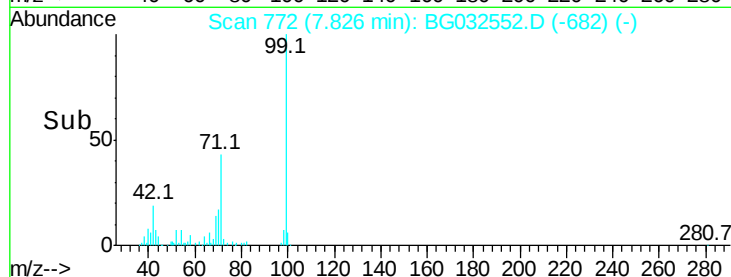
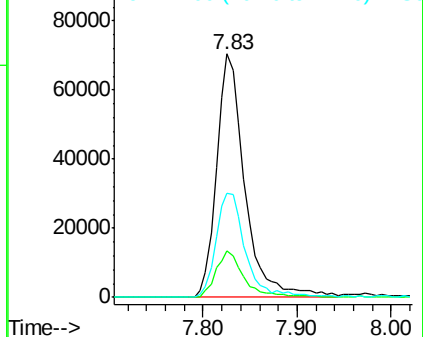
71 42.6 26.1 39.1#



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: 20.000 ng

RT: 11.59 min Scan# 1412

Delta R.T. -0.01 min

Lab File: BG032552.D

Acq: 6 Feb 2018 2:32

Tgt Ion: 136 Resp: 106004

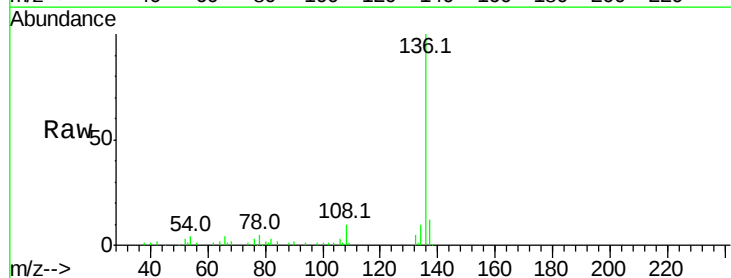
Ion Ratio Lower Upper

136 100

137 12.3 9.2 13.8

54 4.4 10.3 15.5#

68 2.4 4.5 6.7#

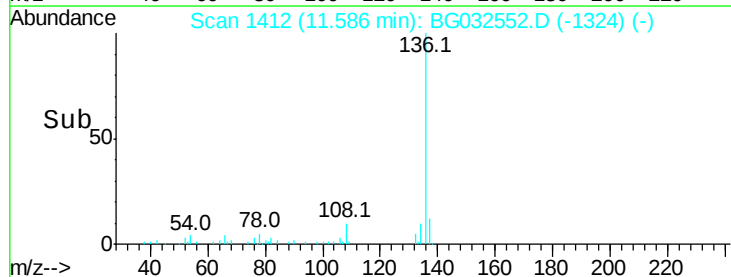
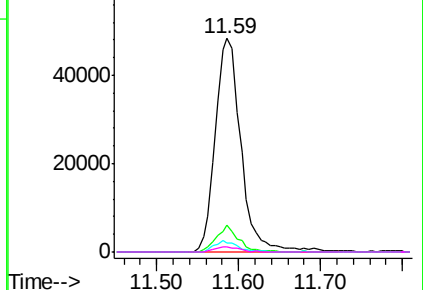


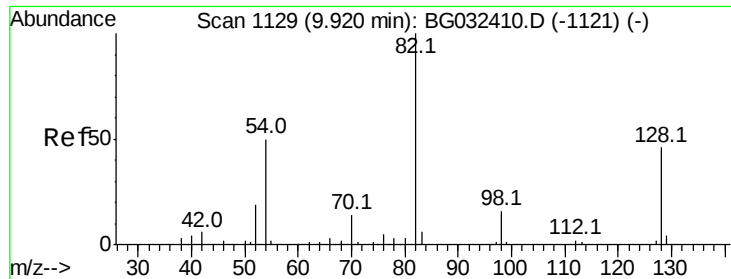
Abundance Ion 136.00 (135.70 to 136.70): BGC

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

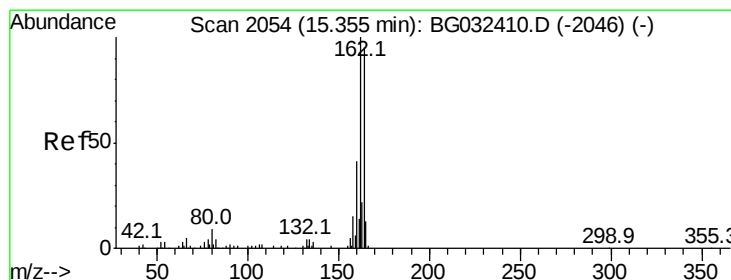
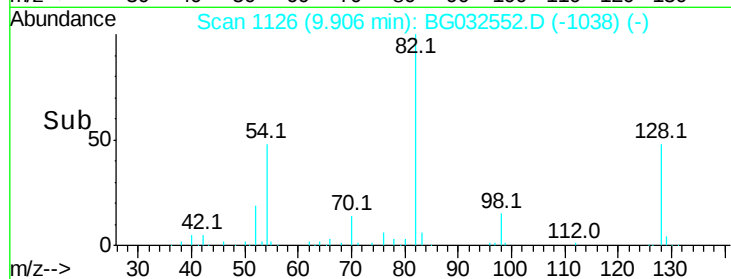
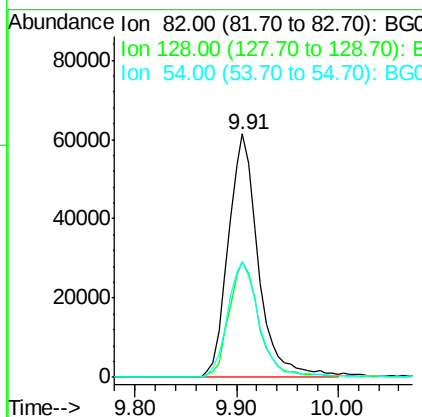
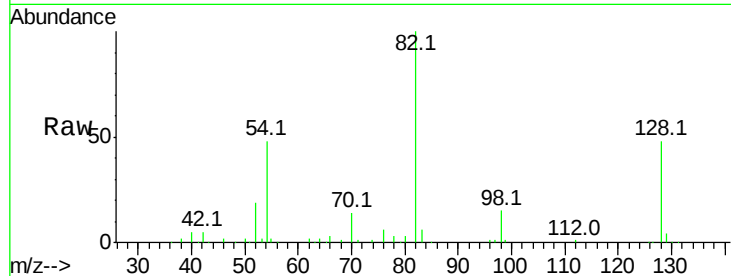




#23  
 Nitrobenzene-d5  
 Concen: 74.366 ng  
 RT: 9.91 min Scan# 1126  
 Delta R.T. -0.01 min  
 Lab File: BG032552.D  
 Acq: 6 Feb 2018 2:32

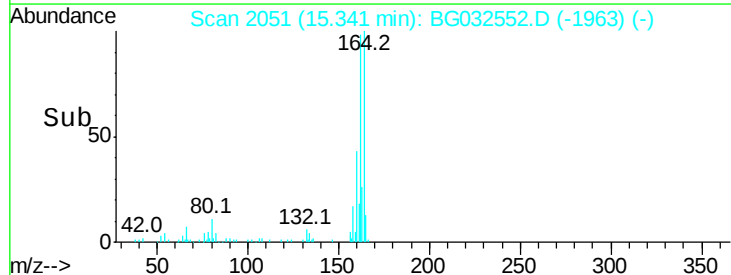
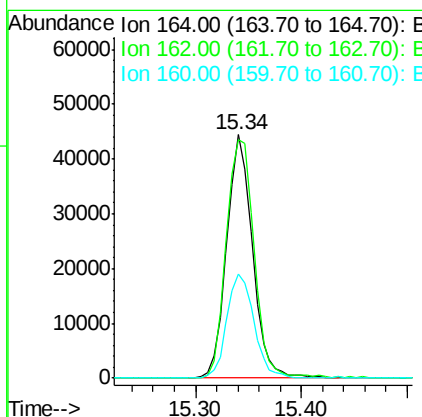
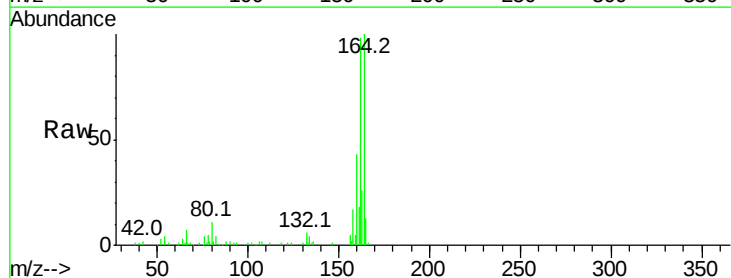
Instrument :  
 BNA\_G  
 ClientSampled :  
 P-2

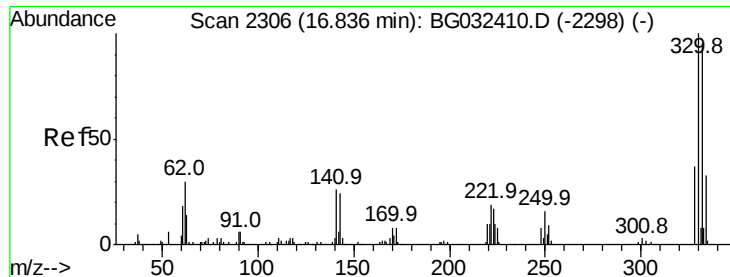
Tot Ion: 82 Resp: 126210  
 Ion Ratio Lower Upper  
 82 100  
 128 47.6 29.7 44.5#  
 54 47.6 43.1 64.7



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 15.34 min Scan# 2051  
 Delta R.T. -0.01 min  
 Lab File: BG032552.D  
 Acq: 6 Feb 2018 2:32

Tgt Ion:164 Resp: 74855  
 Ion Ratio Lower Upper  
 164 100  
 162 98.0 78.8 118.2  
 160 42.7 35.4 53.0

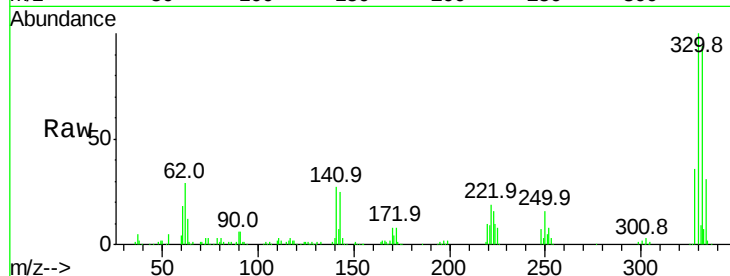




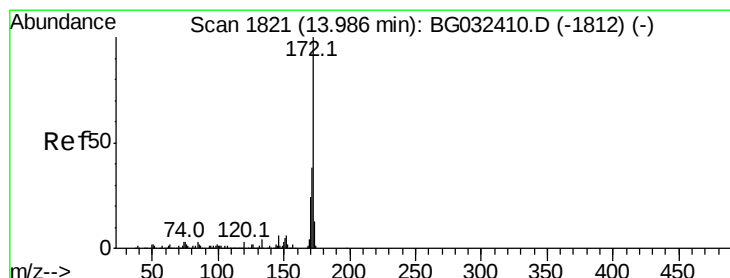
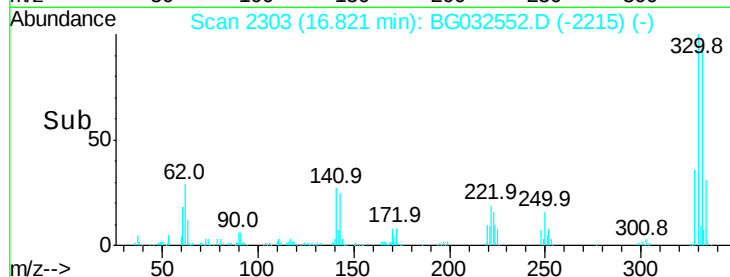
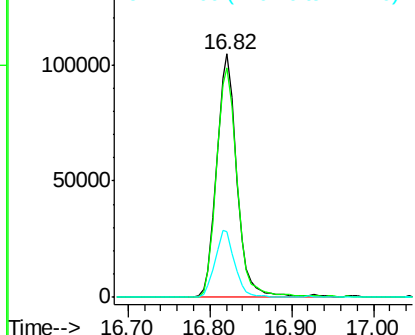
#41  
 2,4,6-Tribromophenol  
 Concen: 127.193 ng  
 RT: 16.82 min Scan# 2303  
 Delta R.T. -0.01 min  
 Lab File: BG032552.D  
 Acq: 6 Feb 2018 2:32

Instrument :  
 BNA\_G  
 ClientSampleId :  
 P-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.7  | 77.0  | 115.6 |
| 141     | 26.8  | 25.2  | 37.8  |

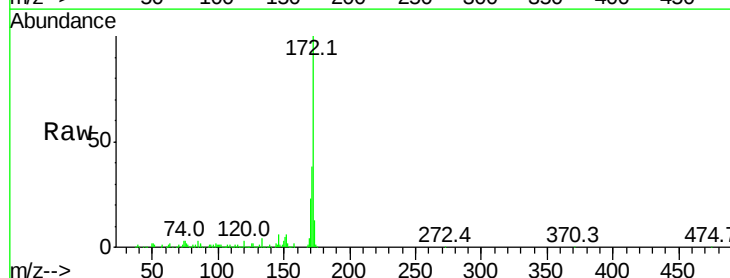


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

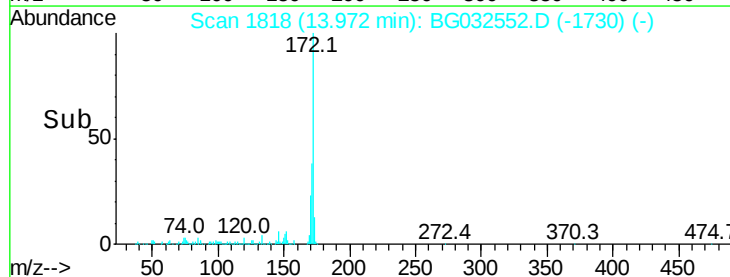
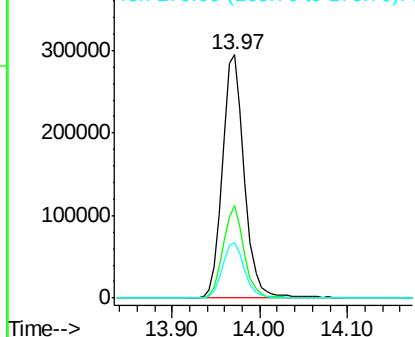


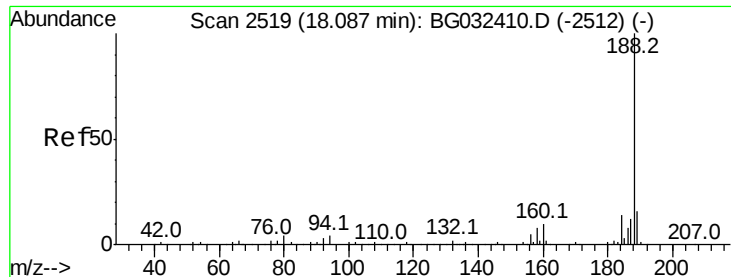
#44  
 2-Fluorobiphenyl  
 Concen: 80.803 ng  
 RT: 13.97 min Scan# 1818  
 Delta R.T. -0.01 min  
 Lab File: BG032552.D  
 Acq: 6 Feb 2018 2:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.9  | 30.0  | 45.0  |
| 170     | 22.6  | 19.5  | 29.3  |



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





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 18.08 min Scan# 2517

Delta R.T. -0.01 min

Lab File: BG032552.D

Acq: 6 Feb 2018 2:32

Instrument :

BNA\_G

ClientSampleId :

P-2

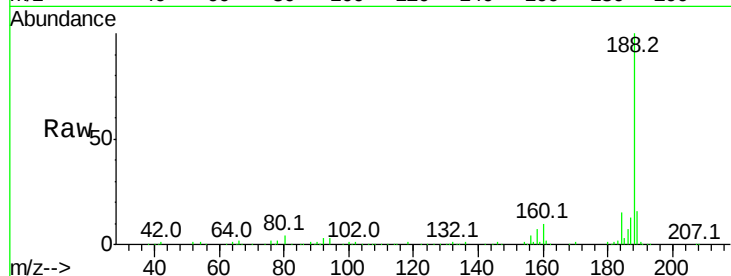
Tot Ion:188 Resp: 203188

Ion Ratio Lower Upper

188 100

94 3.2 6.9 10.3#

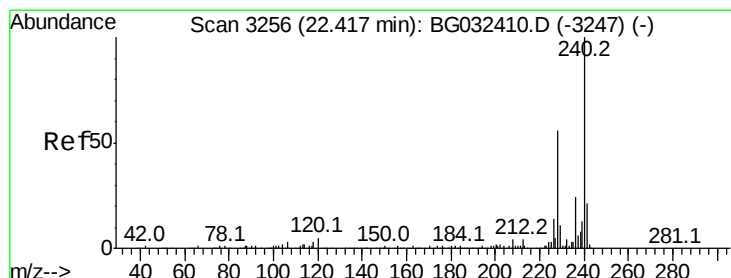
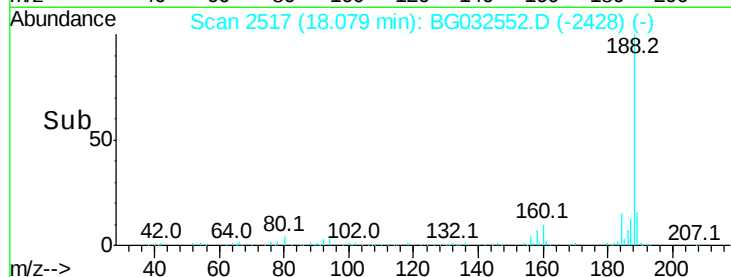
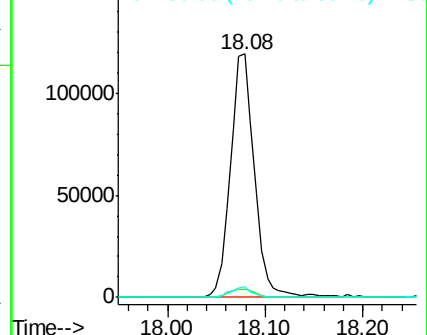
80 4.2 7.7 11.5#



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.40 min Scan# 3253

Delta R.T. -0.01 min

Lab File: BG032552.D

Acq: 6 Feb 2018 2:32

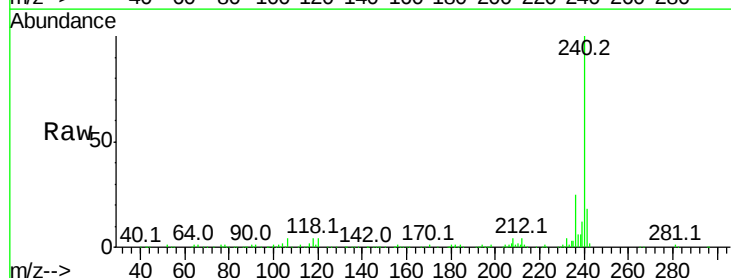
Tgt Ion:240 Resp: 271398

Ion Ratio Lower Upper

240 100

120 3.8 6.8 10.2#

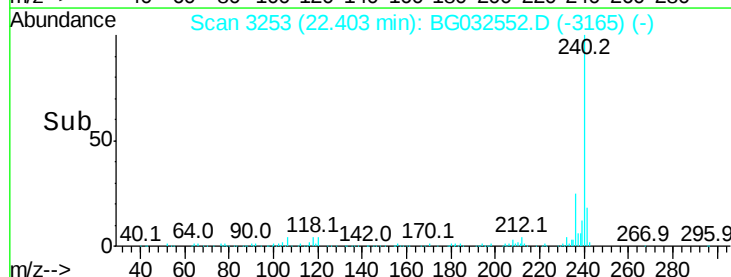
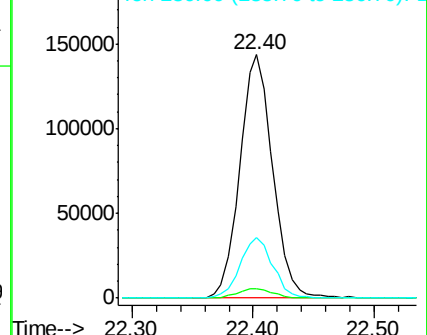
236 25.1 20.9 31.3

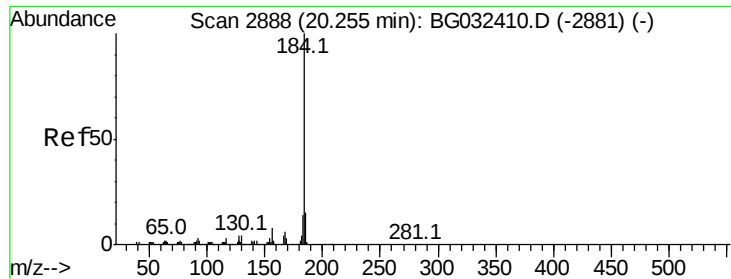


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 3.766 ng

RT: 20.25 min Scan# 2887

Delta R.T. -0.00 min

Lab File: BG032552.D

Acq: 6 Feb 2018 2:32

Instrument :

BNA\_G

ClientSampleId :

P-2

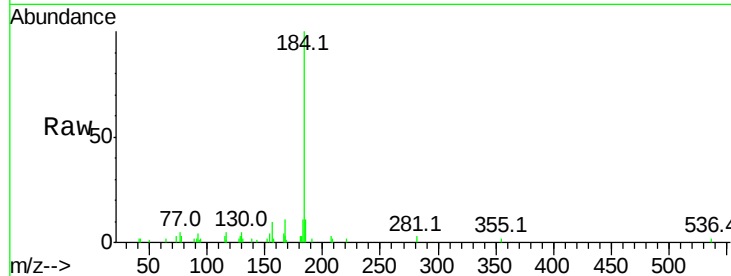
Tot Ion:184 Resp: 20071

Ion Ratio Lower Upper

184 100

185 10.9 11.1 16.7#

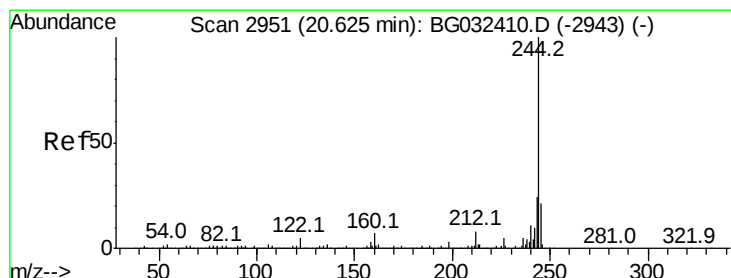
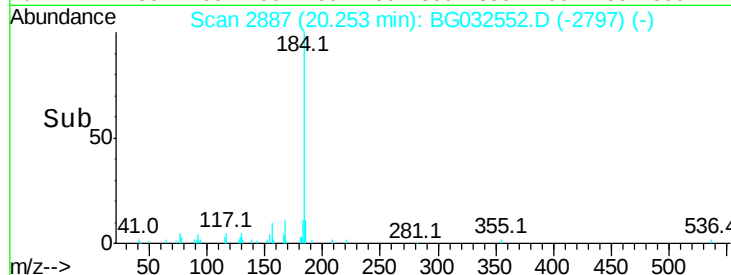
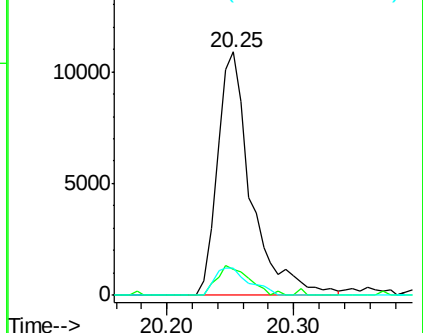
183 11.1 10.6 16.0



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Terphenyl-d14

Concen: 87.434 ng

RT: 20.62 min Scan# 2949

Delta R.T. -0.01 min

Lab File: BG032552.D

Acq: 6 Feb 2018 2:32

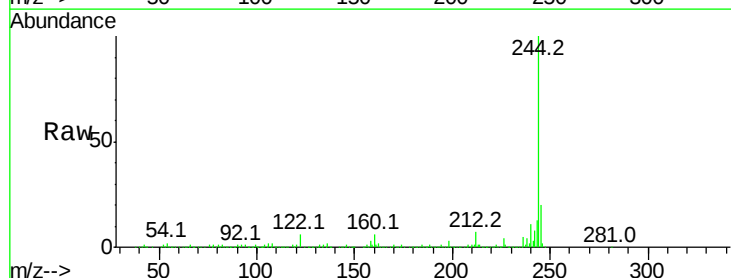
Tgt Ion:244 Resp: 1107771

Ion Ratio Lower Upper

244 100

212 7.2 5.8 8.8

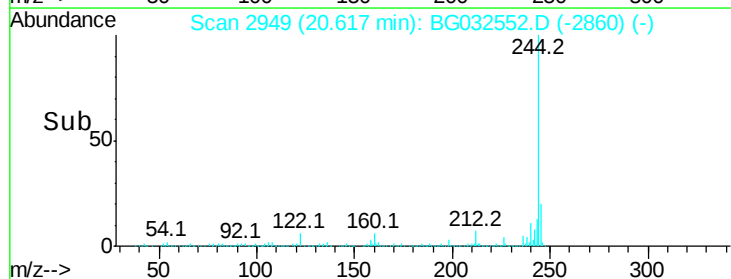
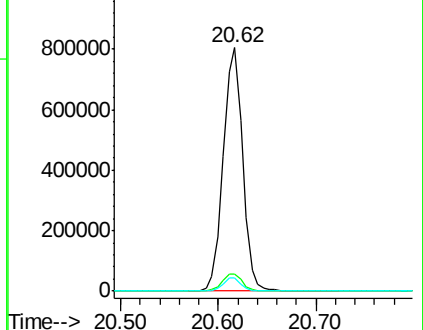
122 5.5 7.0 10.4#

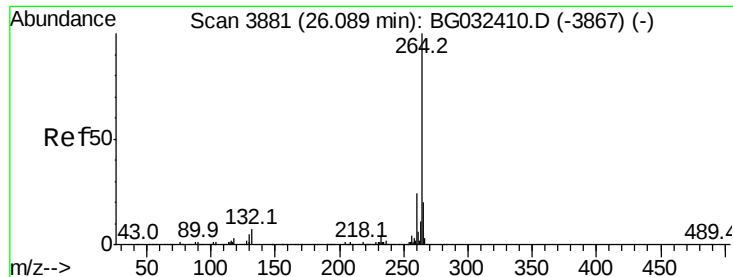


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 26.08 min Scan# 3878  
Delta R.T. -0.01 min  
Lab File: BG032552.D  
Acq: 6 Feb 2018 2:32

Instrument :  
BNA\_G  
ClientSampleId :  
P-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 17.4  | 26.0  |
| 265     | 21.5  | 17.7  | 26.5  |

