

Data Path : Z:\HPCHEM1\BNA G\DATA\BG092517\  
 Data File : BG028927.D  
 Acq On : 26 Sep 2017 3:53  
 Operator : SJ/JU  
 Sample : I5394-03  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 15-50

Quant Time: Sep 26 06:31:46 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG091217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 12 16:57:11 2017  
 Response via : Initial Calibration

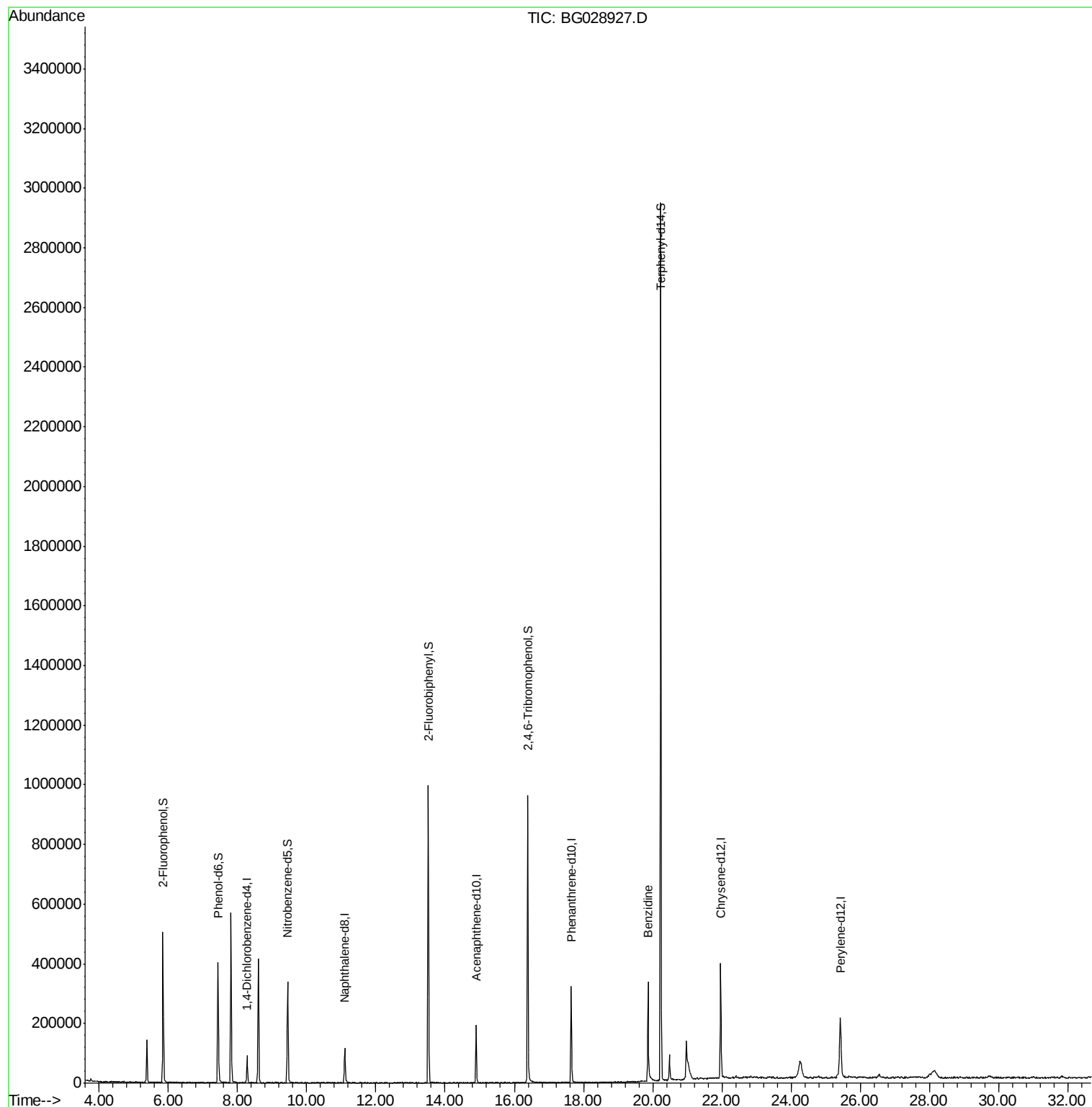
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)  |
|-----------------------------|-------|------|----------|--------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.29  | 152  | 25364    | 20.00  | ng    | -0.04     |
| 21) Naphthalene-d8          | 11.10 | 136  | 100939   | 20.00  | ng    | -0.05     |
| 38) Acenaphthene-d10        | 14.90 | 164  | 69683    | 20.00  | ng    | -0.05     |
| 63) Phenanthrene-d10        | 17.64 | 188  | 216869   | 20.00  | ng    | -0.05     |
| 75) Chrysene-d12            | 21.96 | 240  | 267388   | 20.00  | ng    | -0.07     |
| 86) Perylene-d12            | 25.42 | 264  | 275616   | 20.00  | ng    | -0.10     |
| System Monitoring Compounds |       |      |          |        |       |           |
| 5) 2-Fluorophenol           | 5.85  | 112  | 223589   | 145.46 | ng    | -0.06     |
| 7) Phenol-d6                | 7.44  | 99   | 258642   | 111.75 | ng    | -0.05     |
| 23) Nitrobenzene-d5         | 9.45  | 82   | 228244   | 108.17 | ng    | -0.06     |
| 41) 2,4,6-Tribromophenol    | 16.39 | 330  | 214302   | 185.94 | ng    | -0.05     |
| 44) 2-Fluorobiphenyl        | 13.51 | 172  | 557377   | 106.66 | ng    | -0.05     |
| 78) Terphenyl-d14           | 20.24 | 244  | 1369093  | 109.19 | ng    | -0.04     |
| Target Compounds            |       |      |          |        |       |           |
| 76) Benzidine               | 19.87 | 184  | 251482   | 36.268 | ng    | Qvalue 96 |

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.29 min Scan# 799

Delta R.T. -0.04 min

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ClientSampleId :

15-50

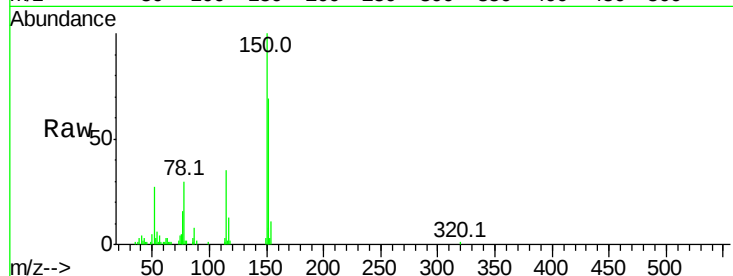
Tot Ion:152 Resp: 25364

Ion Ratio Lower Upper

152 100

150 144.1 114.0 171.0

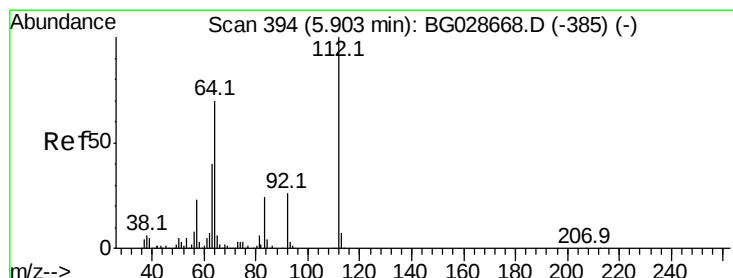
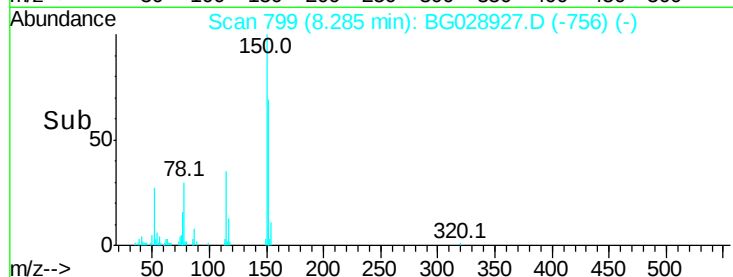
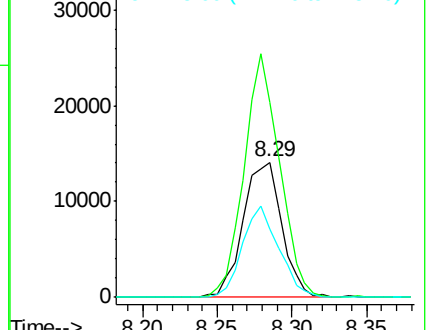
115 50.5 48.1 72.1



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: 145.455 ng

RT: 5.85 min Scan# 384

Delta R.T. -0.06 min

Lab File: BG028927.D

Acq: 26 Sep 2017 3:53

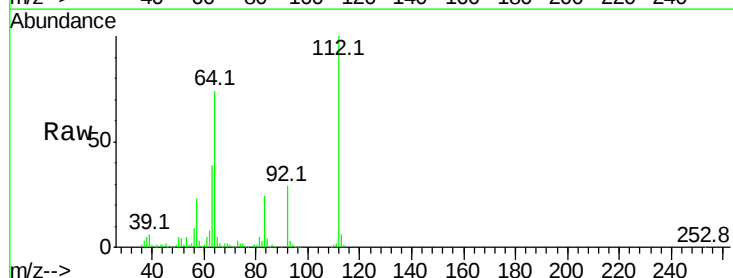
Tgt Ion:112 Resp: 223589

Ion Ratio Lower Upper

112 100

64 73.5 61.8 92.6

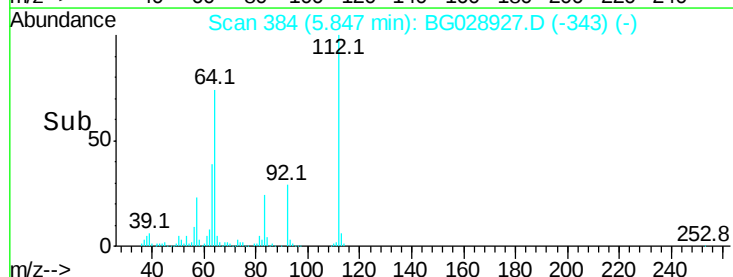
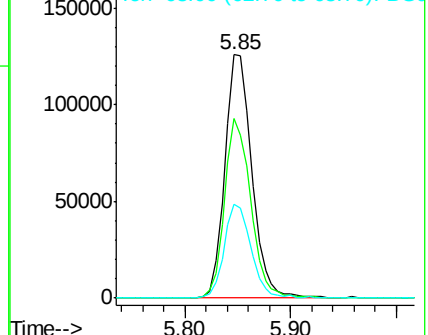
63 38.5 37.2 55.8

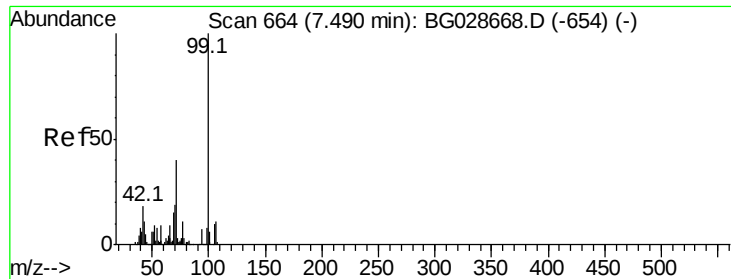


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 111.754 ng

RT: 7.44 min Scan# 655

Delta R.T. -0.05 min

Lab File: BG028927.D

Acq: 26 Sep 2017 3:53

Instrument :

BNA\_G

ClientSampleId :

15-50

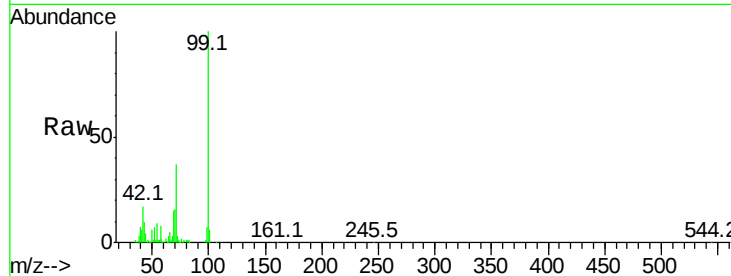
Tot Ion: 99 Resp: 258642

Ion Ratio Lower Upper

99 100

42 17.1 20.5 30.7#

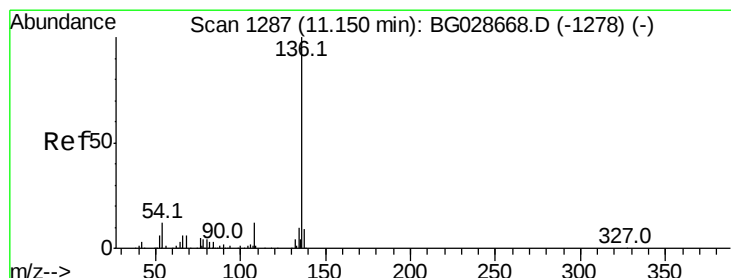
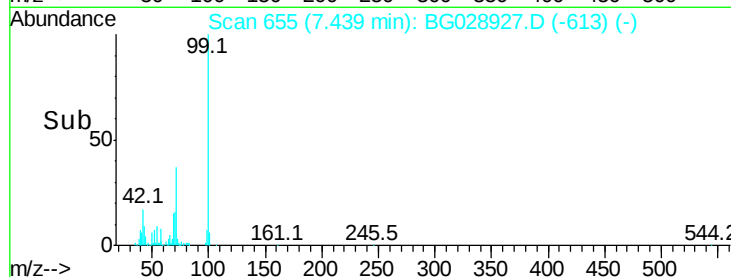
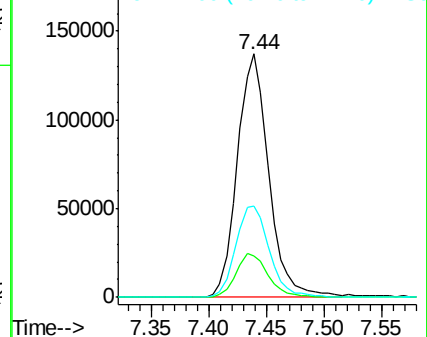
71 37.3 37.6 56.4#



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: 11.10 min Scan# 1278

Delta R.T. -0.05 min

Lab File: BG028927.D

Acq: 26 Sep 2017 3:53

Tgt Ion: 136 Resp: 100939

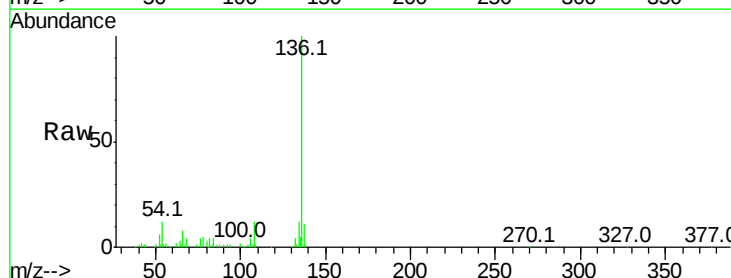
Ion Ratio Lower Upper

136 100

137 11.5 8.9 13.3

54 12.1 9.3 13.9

68 3.9 5.1 7.7#

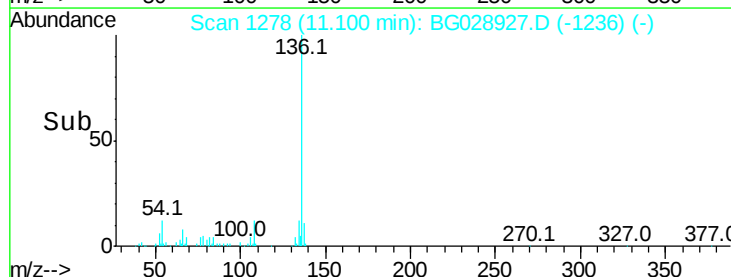
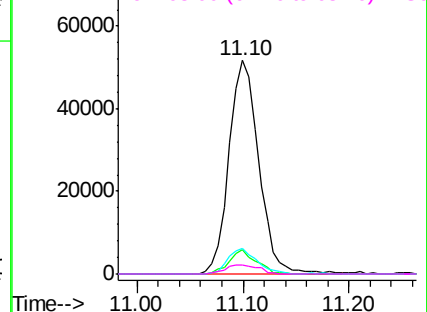


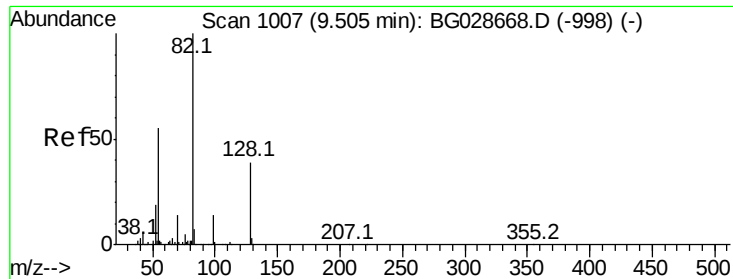
Abundance Ion 136.00 (135.70 to 136.70): BGC

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

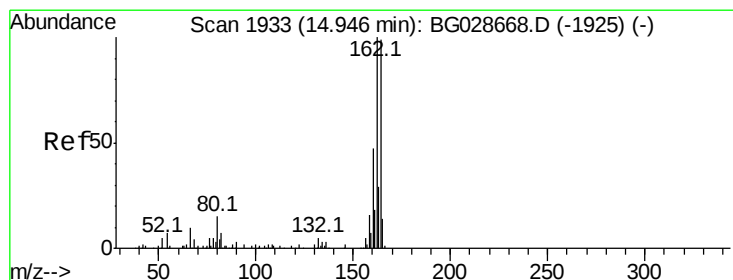
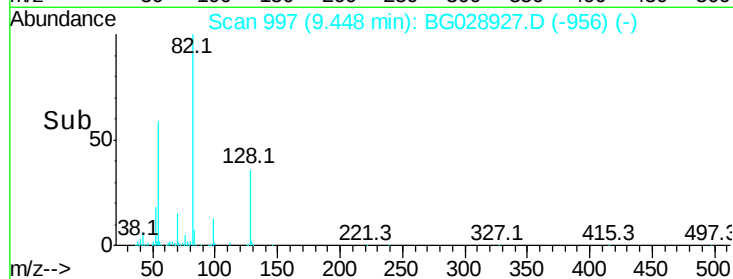
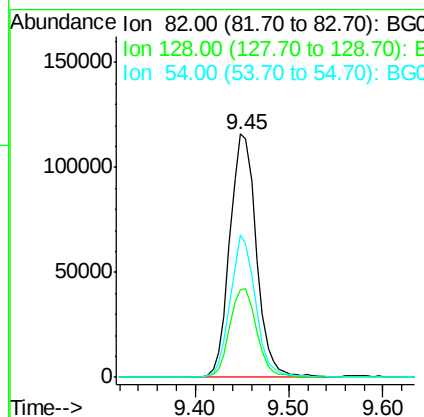
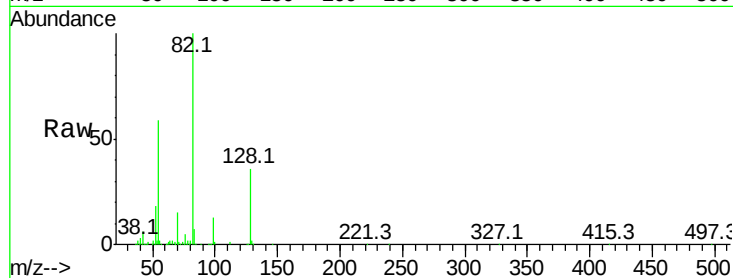




#23  
 Nitrobenzene-d5  
 Concen: 108.170 ng  
 RT: 9.45 min Scan# 997  
 Delta R.T. -0.06 min  
 Lab File: BG028927.D  
 Acq: 26 Sep 2017 3:53

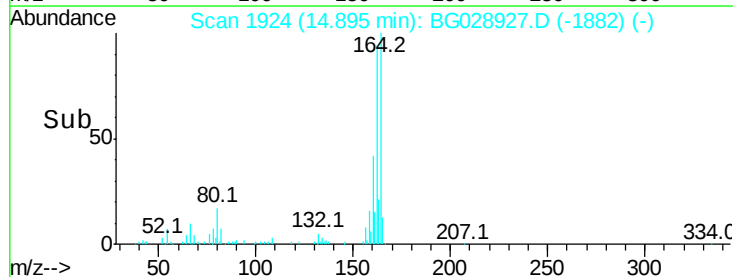
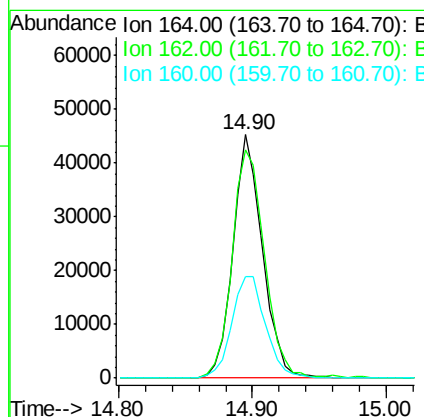
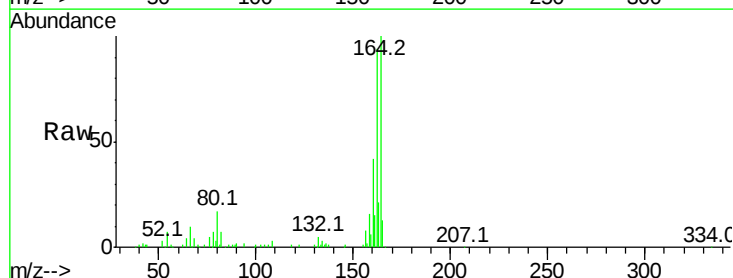
Instrument :  
 BNA\_G  
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 15-50

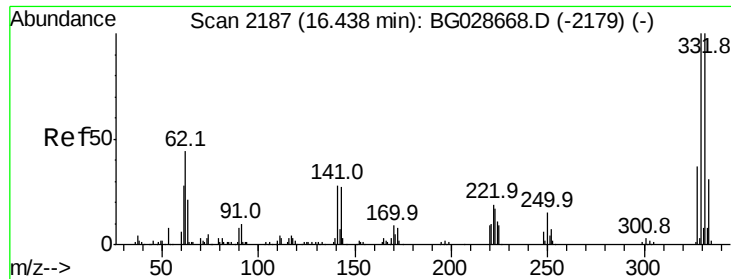
| Tot Ion   | 82   | Resp  | 228244 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 35.7 | 26.4  | 39.6   |
| 54        | 58.5 | 49.4  | 74.2   |



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.90 min Scan# 1924  
 Delta R.T. -0.05 min  
 Lab File: BG028927.D  
 Acq: 26 Sep 2017 3:53

| Tgt Ion   | 164  | Resp  | 69683 |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 162       | 93.9 | 85.1  | 127.7 |
| 160       | 41.5 | 34.7  | 52.1  |

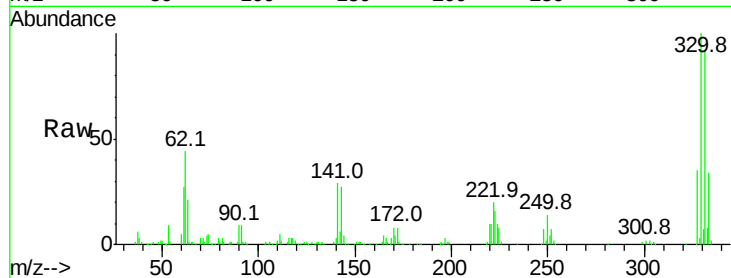




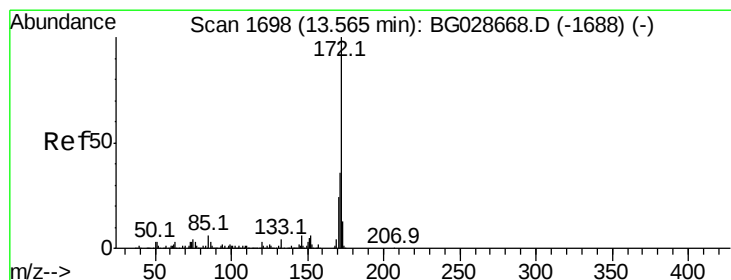
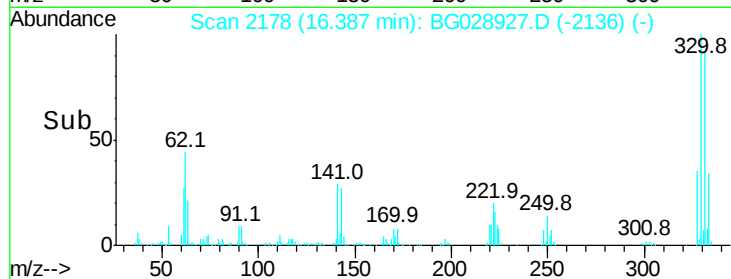
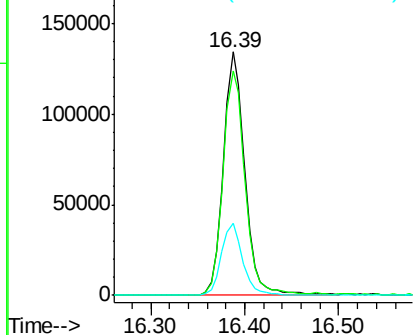
#41  
 2,4,6-Tribromophenol  
 Concen: 185.943 ng  
 RT: 16.39 min Scan# 2178  
 Delta R.T. -0.05 min  
 Lab File: BG028927.D  
 Acq: 26 Sep 2017 3:53

Instrument :  
 BNA\_G  
 ClientSampleId :  
 15-50

Tot Ion:330 Resp: 214302  
 Ion Ratio Lower Upper  
 330 100  
 332 94.5 77.3 115.9  
 141 29.3 32.1 48.1#

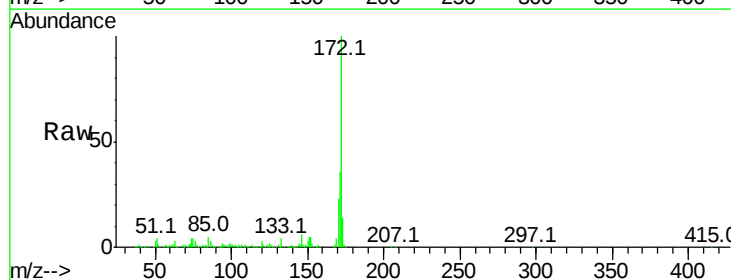


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

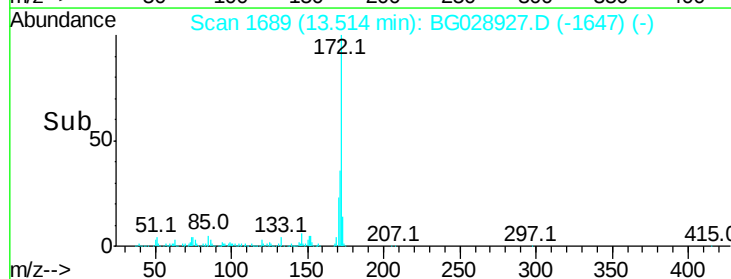
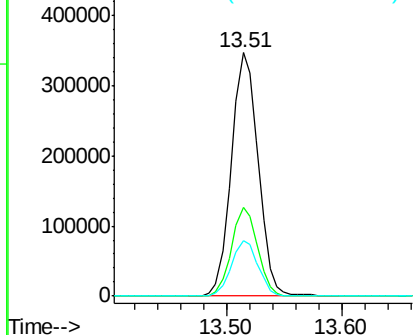


#44  
 2-Fluorobiphenyl  
 Concen: 106.657 ng  
 RT: 13.51 min Scan# 1689  
 Delta R.T. -0.05 min  
 Lab File: BG028927.D  
 Acq: 26 Sep 2017 3:53

Tgt Ion:172 Resp: 557377  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 32.2 48.2  
 170 22.8 21.8 32.6



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: 17.64 min Scan# 2392

Delta R.T. -0.05 min

Lab File: BG028927.D

Acq: 26 Sep 2017 3:53

Instrument :

BNA\_G

ClientSampleId :

15-50

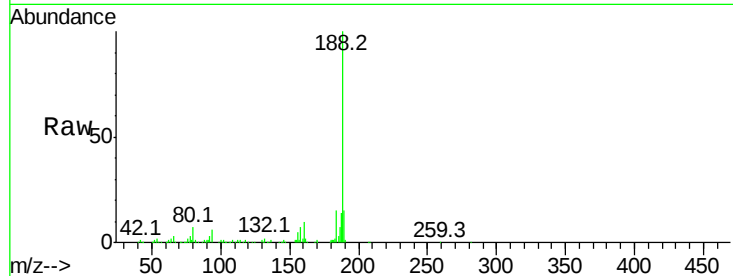
Tot Ion:188 Resp: 216869

Ion Ratio Lower Upper

188 100

94 6.5 5.8 8.8

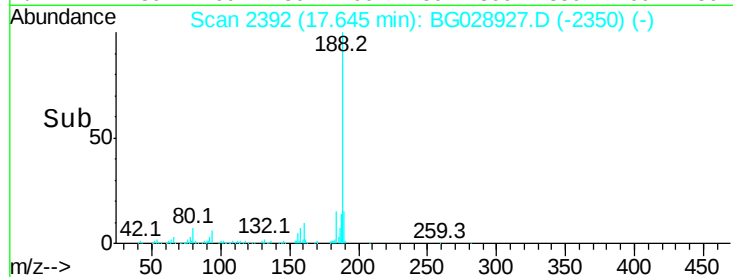
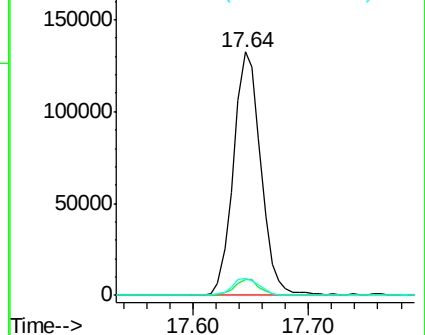
80 7.2 7.5 11.3#



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: 21.96 min Scan# 3127

Delta R.T. -0.07 min

Lab File: BG028927.D

Acq: 26 Sep 2017 3:53

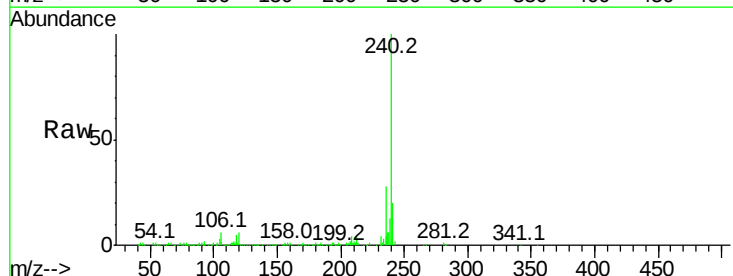
Tgt Ion:240 Resp: 267388

Ion Ratio Lower Upper

240 100

120 5.6 5.7 8.5#

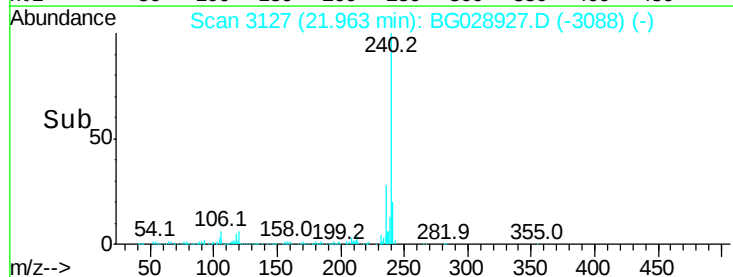
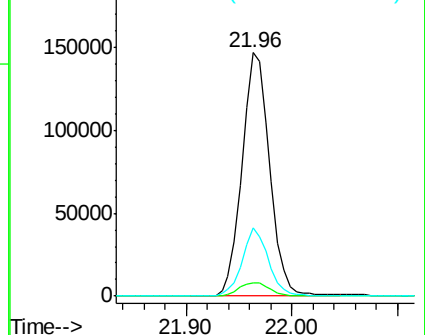
236 27.9 22.2 33.4

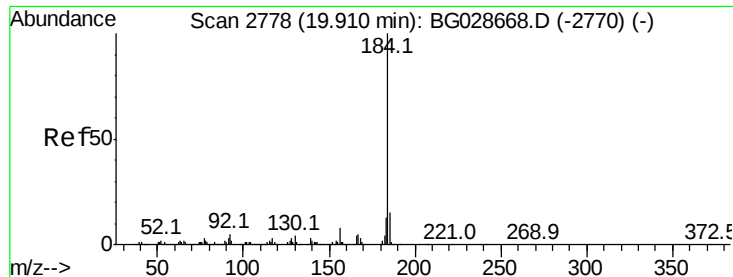


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 36.268 ng

RT: 19.87 min Scan# 2770

Delta R.T. -0.04 min

Lab File: BG028927.D

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Instrument :

BNA\_G

ClientSampleId :

15-50

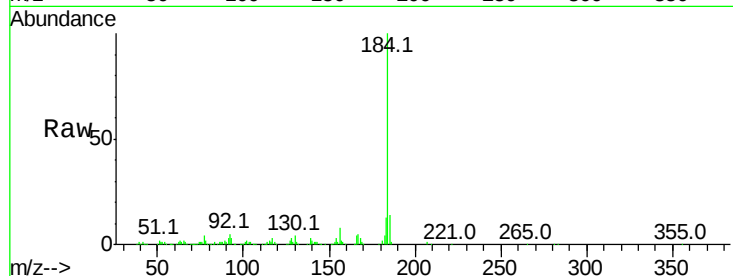
Tot Ion:184 Resp: 251482

Ion Ratio Lower Upper

184 100

185 13.5 13.0 19.6

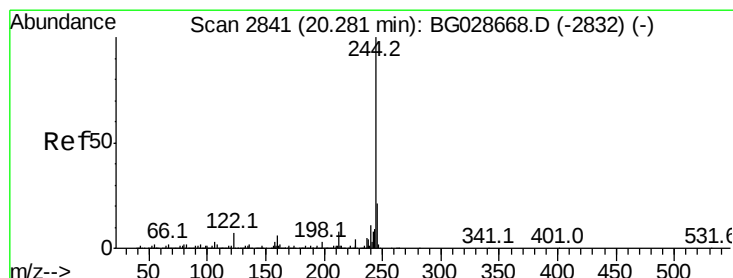
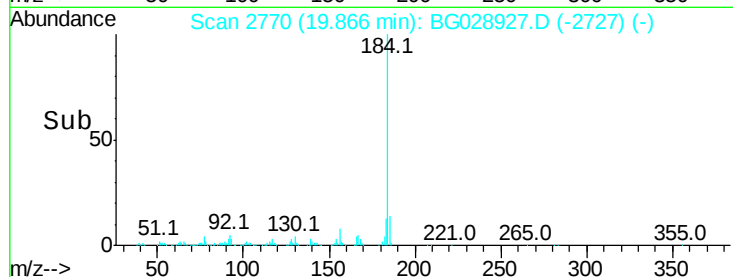
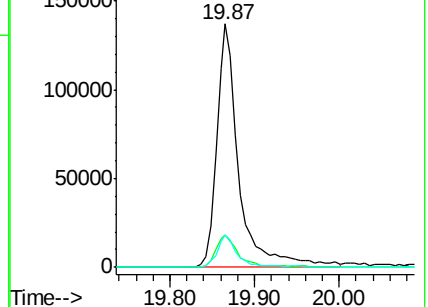
183 13.3 11.0 16.6



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: 109.193 ng

RT: 20.24 min Scan# 2833

Delta R.T. -0.04 min

Lab File: BG028927.D

Acq: 26 Sep 2017 3:53

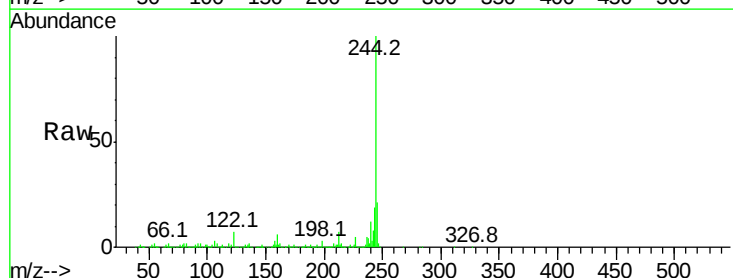
Tgt Ion:244 Resp: 1369093

Ion Ratio Lower Upper

244 100

212 7.5 10.0 15.0#

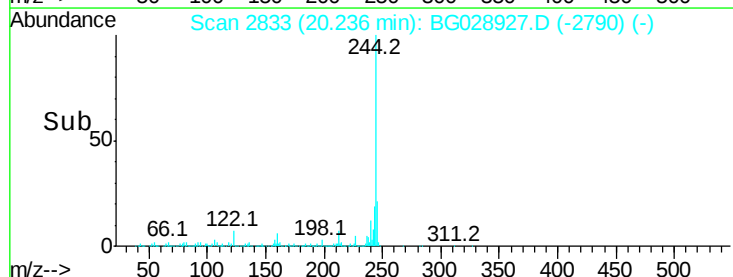
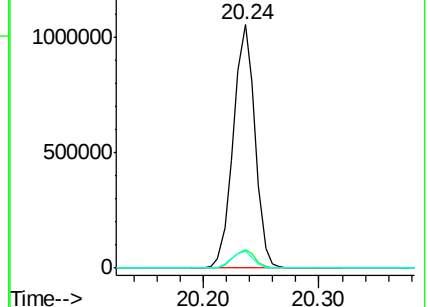
122 6.9 8.6 12.8#

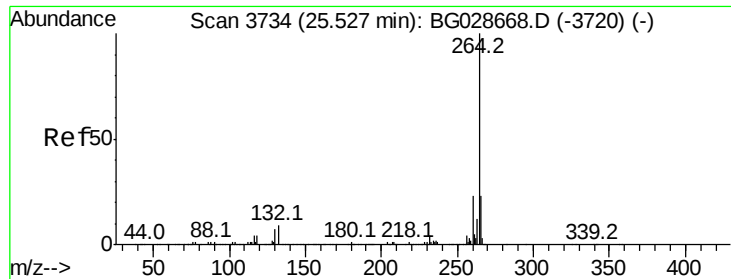


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

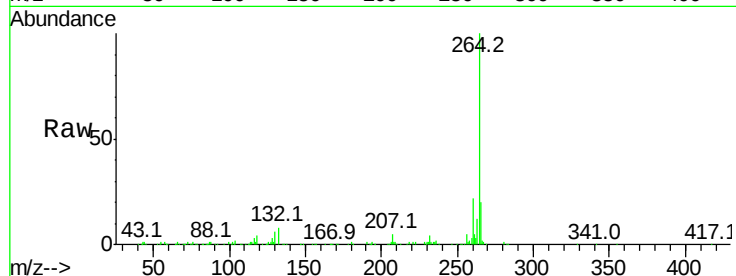




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 25.42 min Scan# 3716  
 Delta R.T. -0.10 min  
 Lab File: BG028927.D  
 Acq: 26 Sep 2017 3:53

Instrument :  
 BNA\_G  
 ClientSampleId :  
 15-50

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.3  | 21.8  | 32.8  |
| 265     | 19.6  | 18.2  | 27.4  |



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

