

Data Path : Z:\HPCHEM1\BNA G\DATA\BG071017\  
 Data File : BG027900.D  
 Acq On : 10 Jul 2017 23:25  
 Operator : SJ/JU  
 Sample : I4108-06  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jul 11 07:03:13 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG062817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 07 17:43:21 2017  
 Response via : Initial Calibration

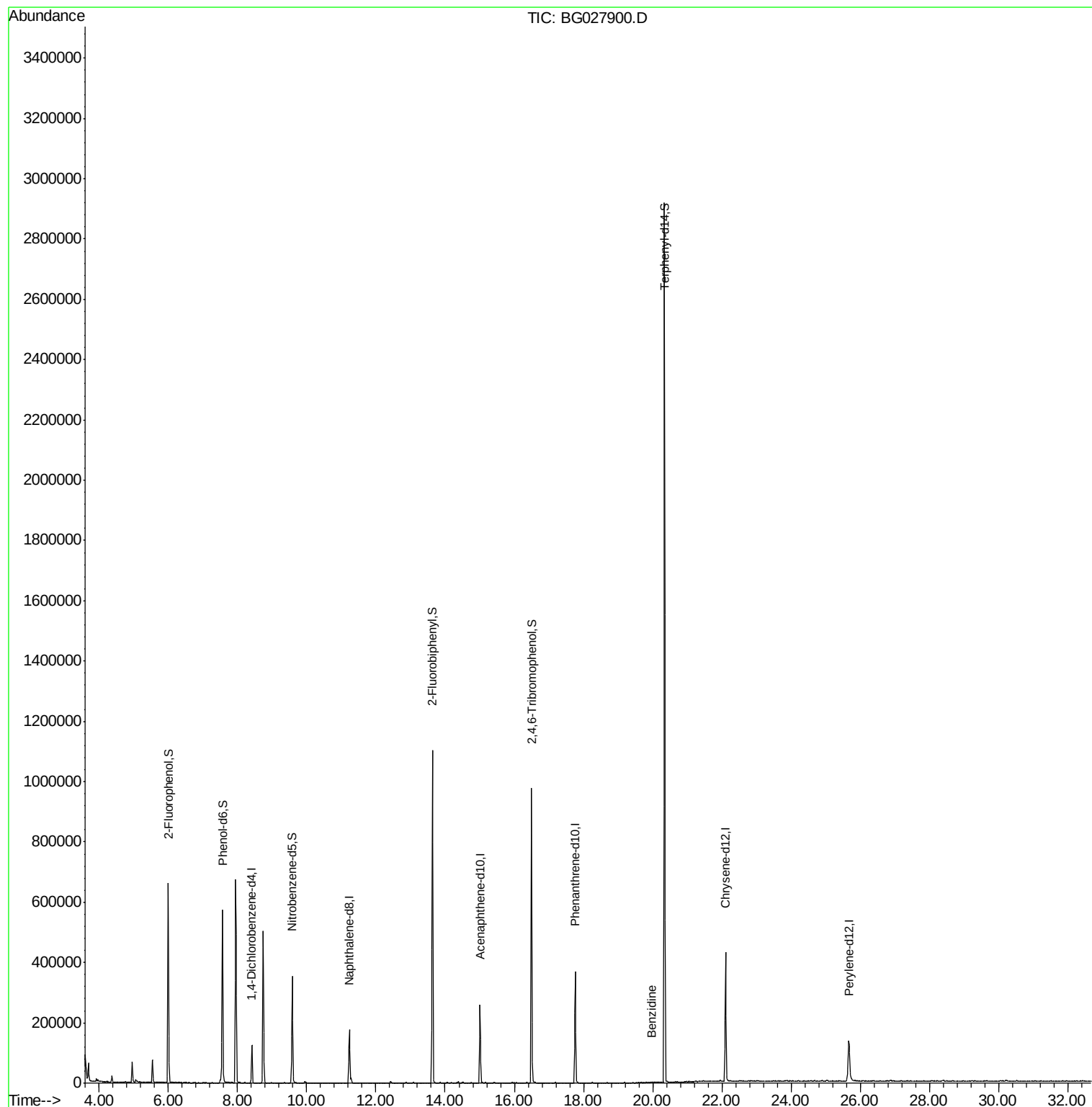
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)       |
|-----------------------------|-------|------|----------|--------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.41  | 152  | 42311    | 20.00  | ng    | -0.01          |
| 21) Naphthalene-d8          | 11.23 | 136  | 178194   | 20.00  | ng    | -0.01          |
| 38) Acenaphthene-d10        | 15.01 | 164  | 93020    | 20.00  | ng    | -0.01          |
| 63) Phenanthrene-d10        | 17.76 | 188  | 243694   | 20.00  | ng    | -0.01          |
| 75) Chrysene-d12            | 22.10 | 240  | 299566   | 20.00  | ng    | -0.03          |
| 86) Perylene-d12            | 25.66 | 264  | 137393   | 20.00  | ng    | -0.04          |
| System Monitoring Compounds |       |      |          |        |       |                |
| 5) 2-Fluorophenol           | 6.00  | 112  | 371388   | 135.17 | ng    | 0.00           |
| 7) Phenol-d6                | 7.57  | 99   | 465496   | 110.90 | ng    | 0.00           |
| 23) Nitrobenzene-d5         | 9.58  | 82   | 256591   | 80.26  | ng    | -0.01          |
| 41) 2,4,6-Tribromophenol    | 16.50 | 330  | 231513   | 181.45 | ng    | -0.02          |
| 44) 2-Fluorobiphenyl        | 13.64 | 172  | 645043   | 99.04  | ng    | -0.01          |
| 78) Terphenyl-d14           | 20.34 | 244  | 1336559  | 104.60 | ng    | -0.01          |
| Target Compounds            |       |      |          |        |       |                |
| 76) Benzidine               | 19.98 | 184  | 58       | 3.22   | ng    | Qvalue<br># 64 |

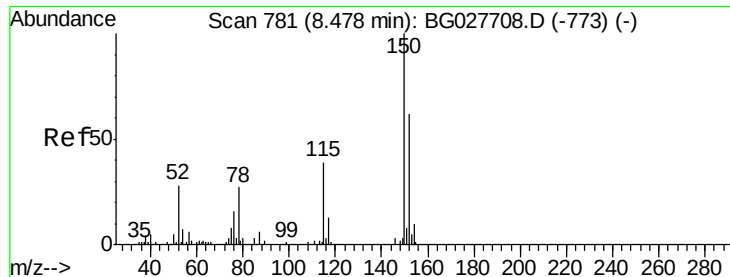
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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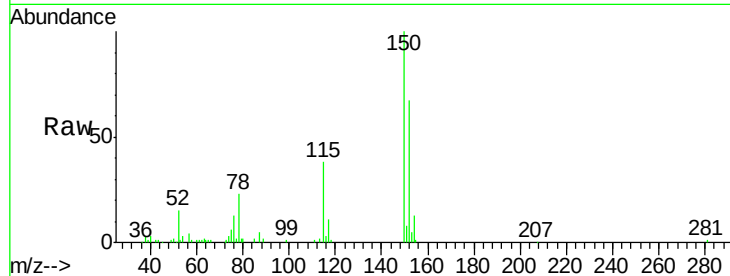


#1

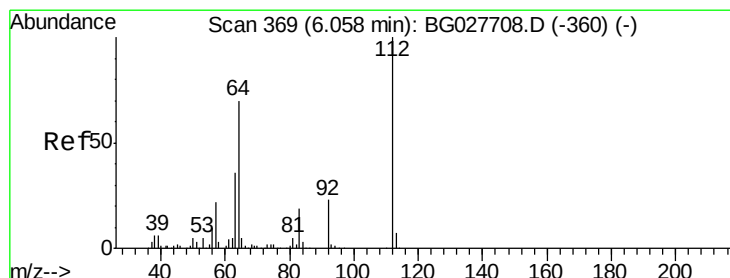
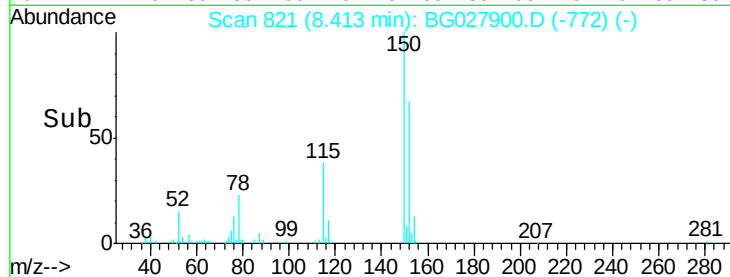
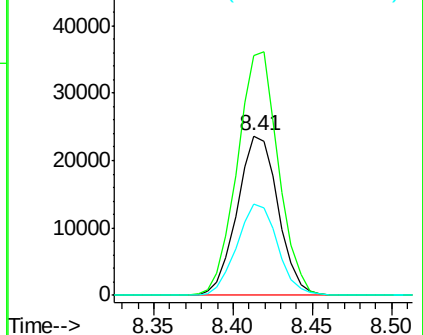
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.41 min Scan# 821  
Delta R.T. -0.01 min  
Lab File: BG027900.D  
Acq: 10 Jul 2017 23:25

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 42311  
Ion Ratio Lower Upper  
152 100  
150 150.1 114.0 171.0  
115 57.5 48.1 72.1



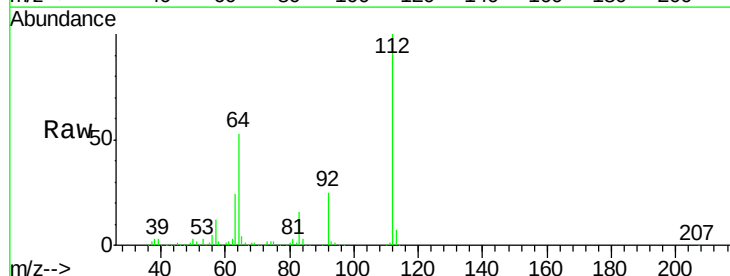
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



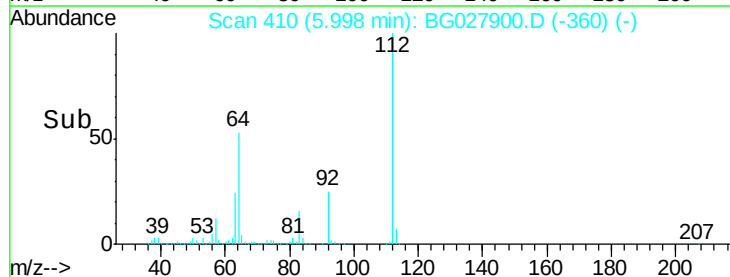
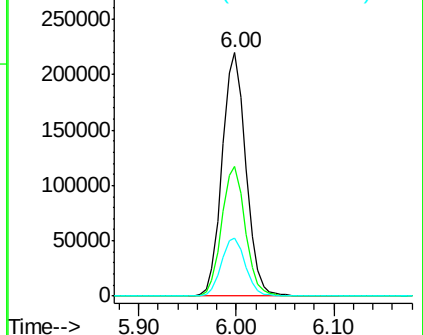
#5

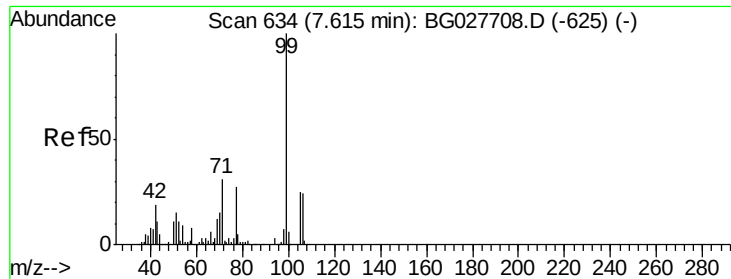
2-Fluorophenol  
Concen: 135.17 ng  
RT: 6.00 min Scan# 410  
Delta R.T. -0.01 min  
Lab File: BG027900.D  
Acq: 10 Jul 2017 23:25

Tgt Ion:112 Resp: 371388  
Ion Ratio Lower Upper  
112 100  
64 53.2 61.8 92.6#  
63 23.8 37.2 55.8#



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: 110.90 ng

RT: 7.57 min Scan# 677

Delta R.T. -0.01 min

Lab File: BG027900.D

Acq: 10 Jul 2017 23:25

Instrument :

BNA\_G

ClientSampleId :

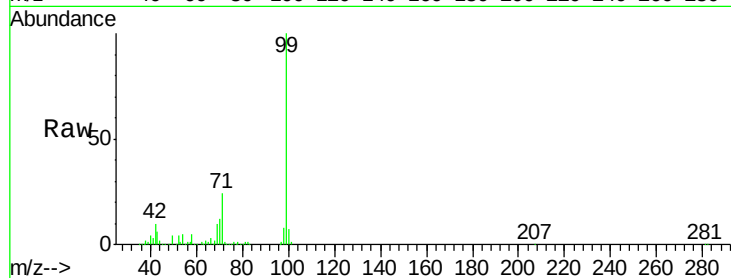
Tot Ion: 99 Resp: 465496

Ion Ratio Lower Upper

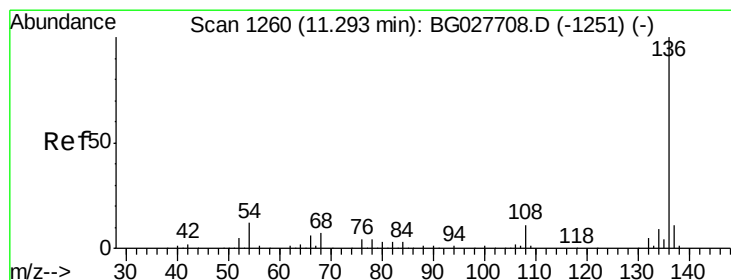
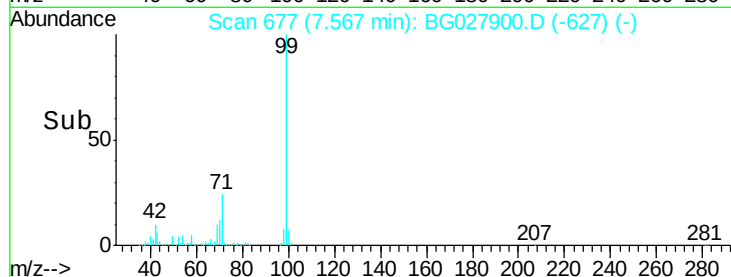
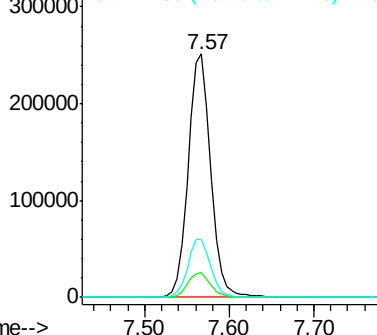
99 100

42 10.1 20.5 30.7#

71 24.0 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: 20.00 ng

RT: 11.23 min Scan# 1301

Delta R.T. -0.01 min

Lab File: BG027900.D

Acq: 10 Jul 2017 23:25

Tgt Ion: 136 Resp: 178194

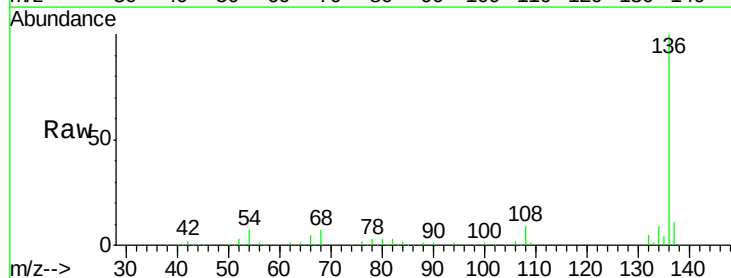
Ion Ratio Lower Upper

136 100

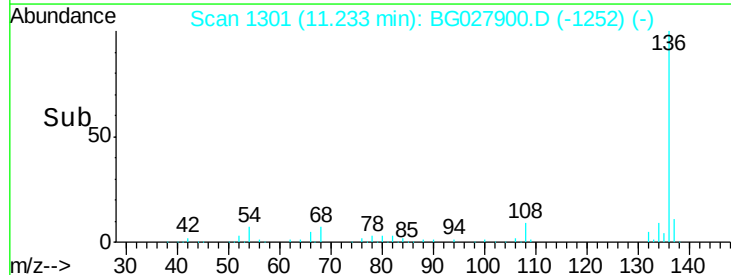
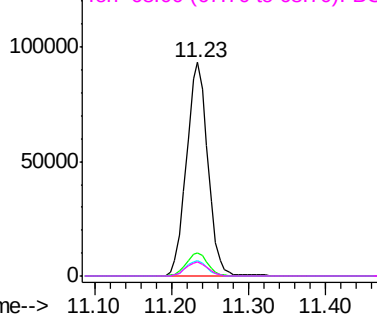
137 11.0 8.9 13.3

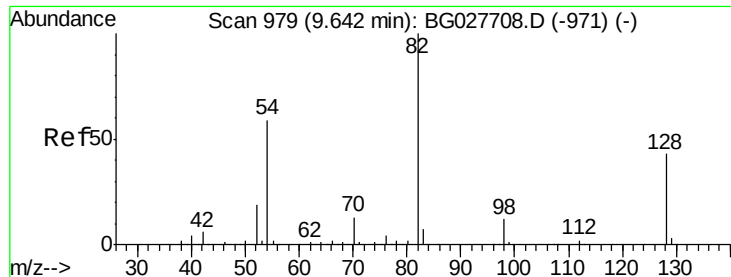
54 7.1 9.3 13.9#

68 6.5 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: 80.26 ng

RT: 9.58 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BG027900.D

Acq: 10 Jul 2017 23:25

Instrument :

BNA\_G

ClientSampleId :

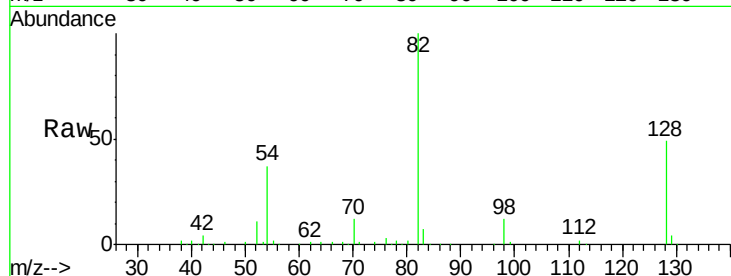
Tot Ion: 82 Resp: 256591

Ion Ratio Lower Upper

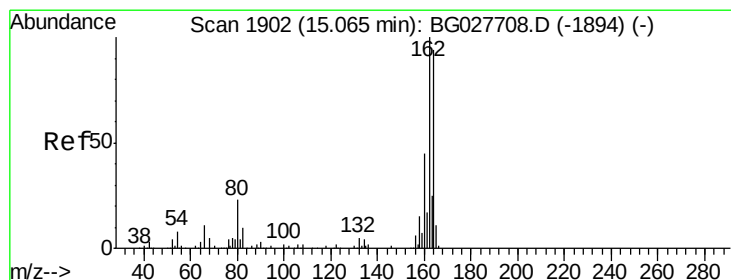
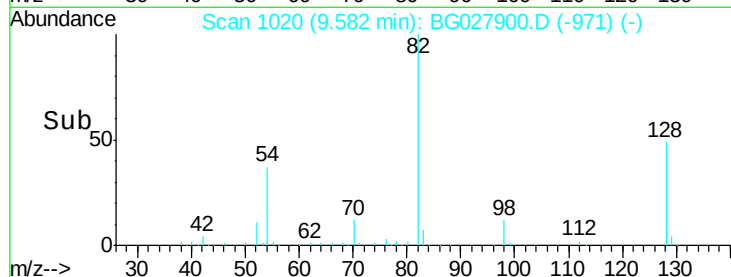
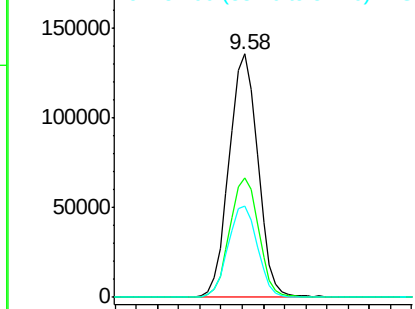
82 100

128 49.0 26.4 39.6#

54 37.5 49.4 74.2#



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: 15.01 min Scan# 1944

Delta R.T. -0.01 min

Lab File: BG027900.D

Acq: 10 Jul 2017 23:25

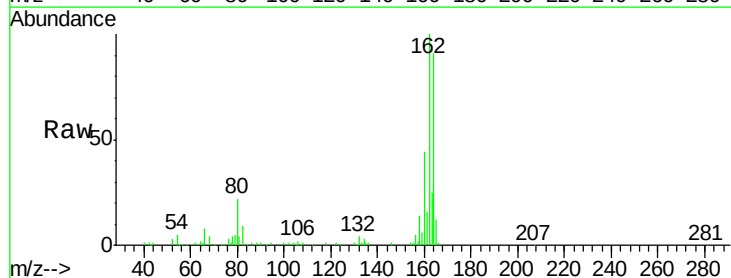
Tgt Ion:164 Resp: 93020

Ion Ratio Lower Upper

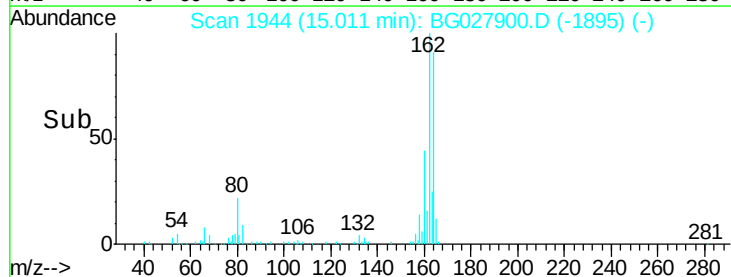
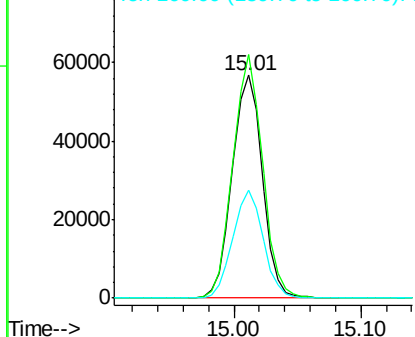
164 100

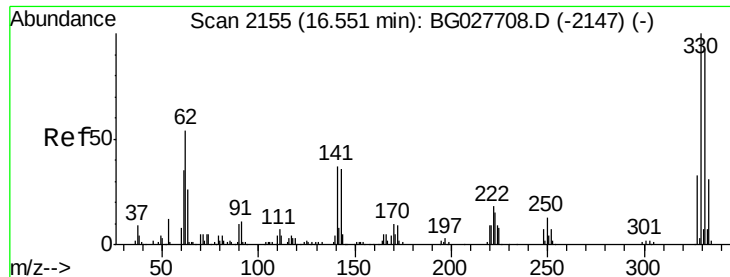
162 109.4 85.1 127.7

160 48.3 34.7 52.1



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: 181.45 ng

RT: 16.50 min Scan# 2197

Delta R.T. -0.02 min

Lab File: BG027900.D

Acq: 10 Jul 2017 23:25

Instrument :

BNA\_G

ClientSampleId :

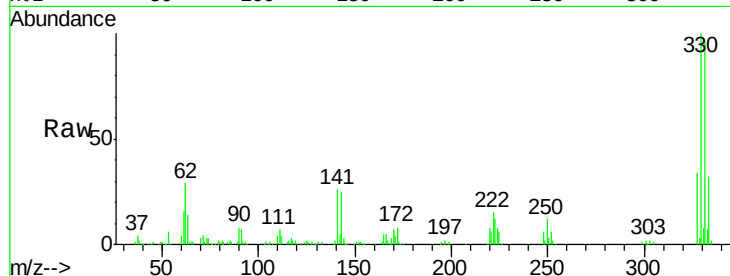
Tot Ion:330 Resp: 231513

Ion Ratio Lower Upper

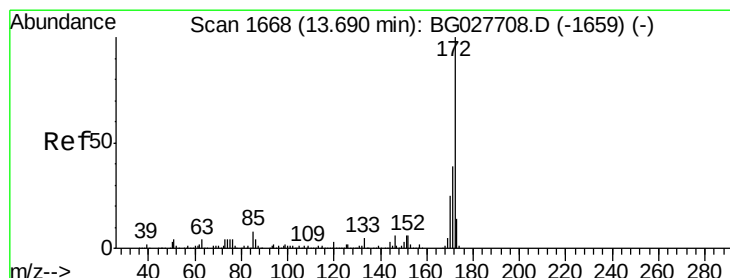
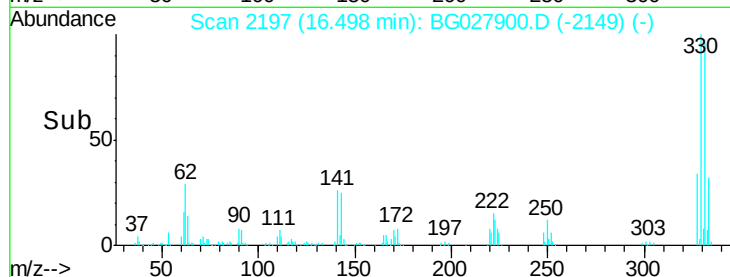
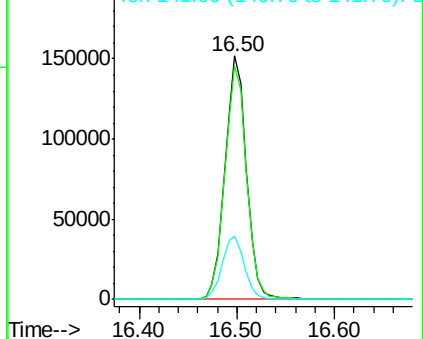
330 100

332 97.5 77.3 115.9

141 26.9 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: 99.04 ng

RT: 13.64 min Scan# 1710

Delta R.T. -0.01 min

Lab File: BG027900.D

Acq: 10 Jul 2017 23:25

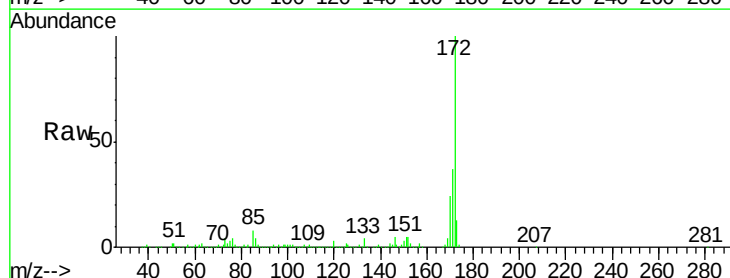
Tgt Ion:172 Resp: 645043

Ion Ratio Lower Upper

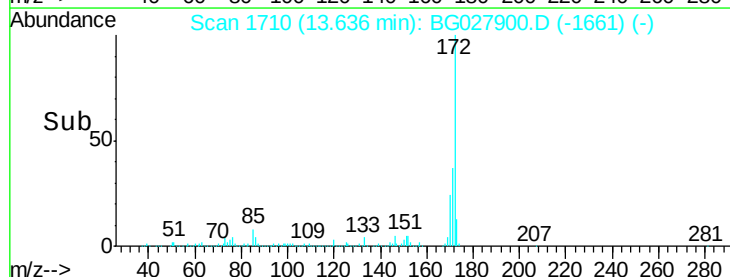
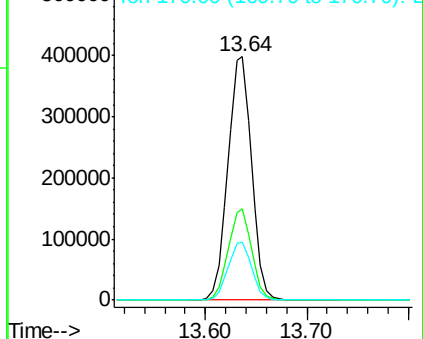
172 100

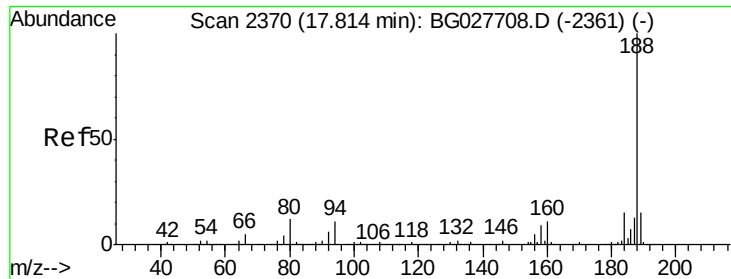
171 37.5 32.2 48.2

170 23.6 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

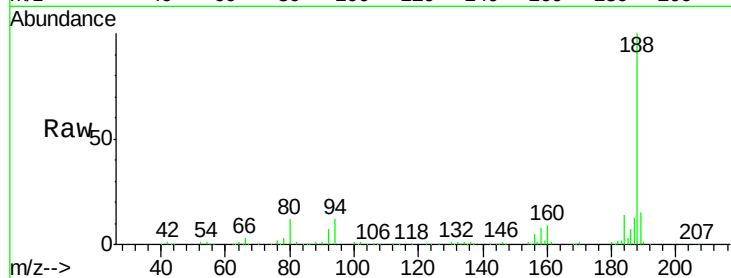




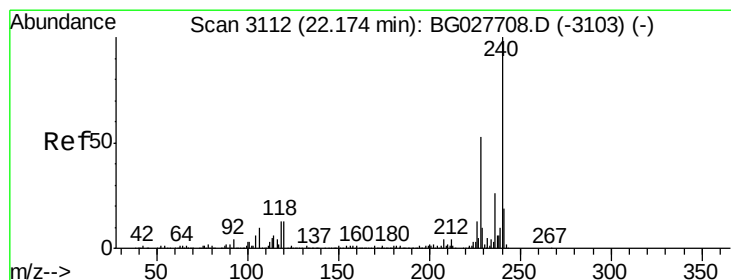
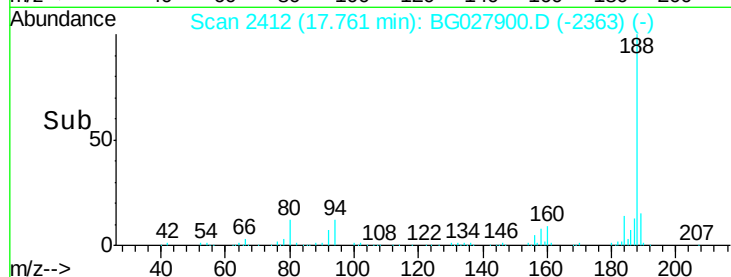
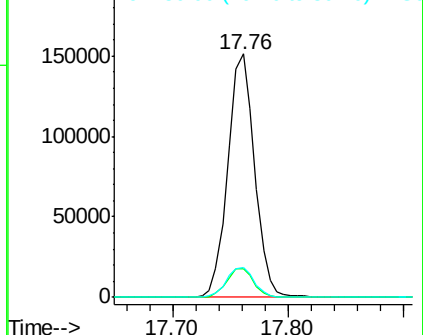
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.76 min Scan# 2412  
Delta R.T. -0.01 min  
Lab File: BG027900.D  
Acq: 10 Jul 2017 23:25

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:188 Resp: 243694  
Ion Ratio Lower Upper  
188 100  
94 11.9 5.8 8.8#  
80 12.2 7.5 11.3#

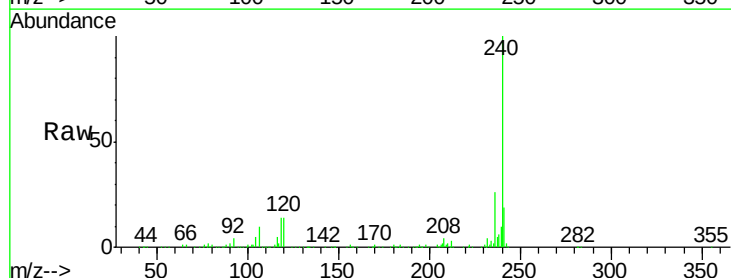


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

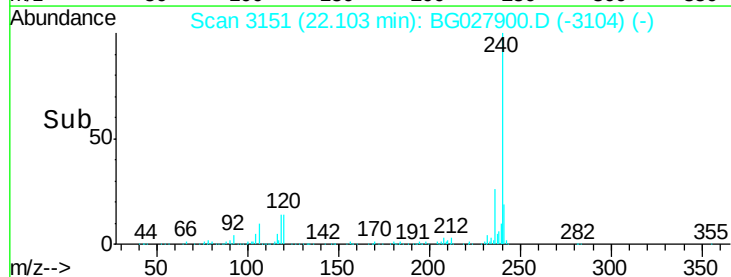
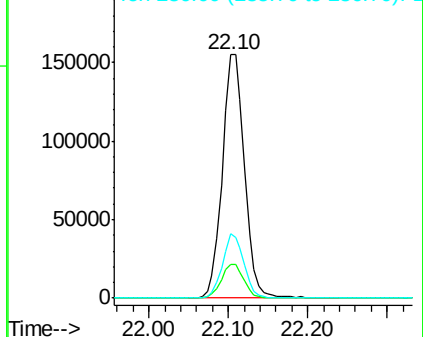


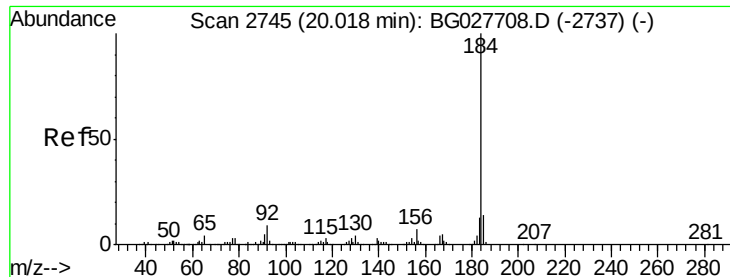
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 22.10 min Scan# 3151  
Delta R.T. -0.03 min  
Lab File: BG027900.D  
Acq: 10 Jul 2017 23:25

Tgt Ion:240 Resp: 299566  
Ion Ratio Lower Upper  
240 100  
120 13.8 5.7 8.5#  
236 26.5 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: 3.22 ng

RT: 19.98 min Scan# 2789

Delta R.T. -0.01 min

Lab File: BG027900.D

Acq: 10 Jul 2017 23:25

Instrument :

BNA\_G

ClientSampled :

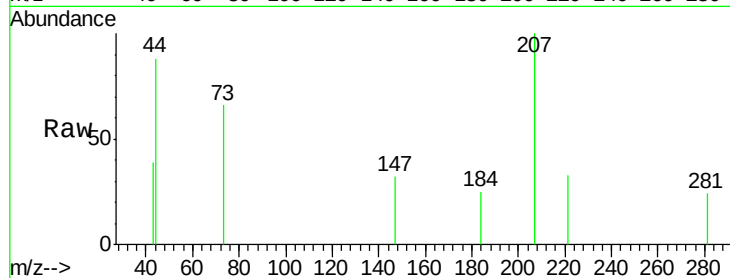
Tot Ion:184 Resp: 58

Ion Ratio Lower Upper

184 100

185 0.0 13.0 19.6#

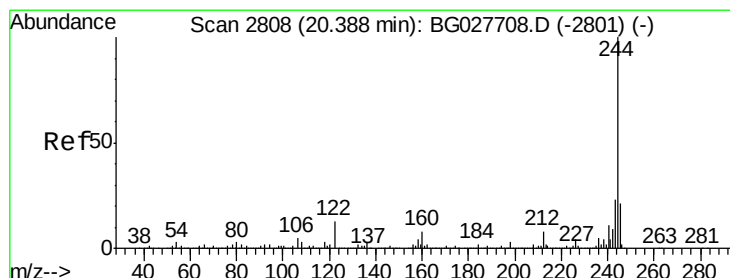
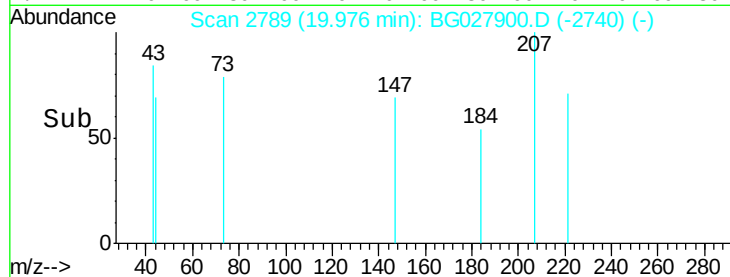
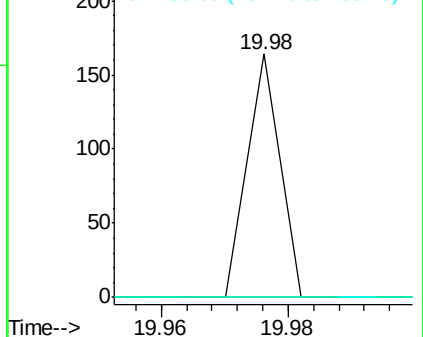
183 0.0 11.0 16.6#



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: 104.60 ng

RT: 20.34 min Scan# 2851

Delta R.T. -0.01 min

Lab File: BG027900.D

Acq: 10 Jul 2017 23:25

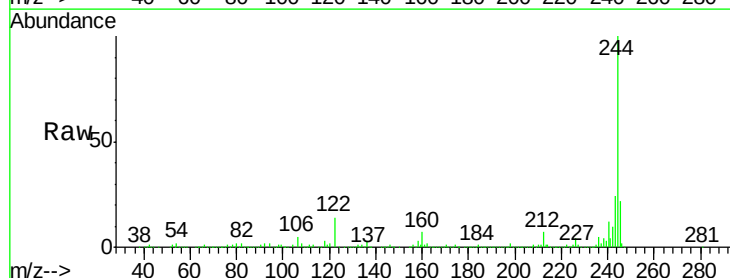
Tgt Ion:244 Resp: 1336559

Ion Ratio Lower Upper

244 100

212 6.7 10.0 15.0#

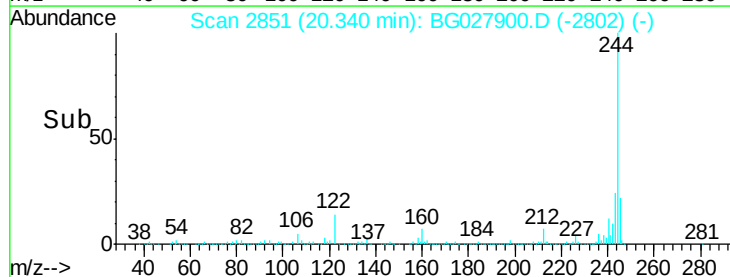
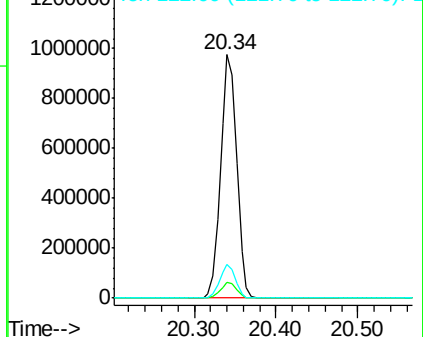
122 14.0 8.6 12.8#



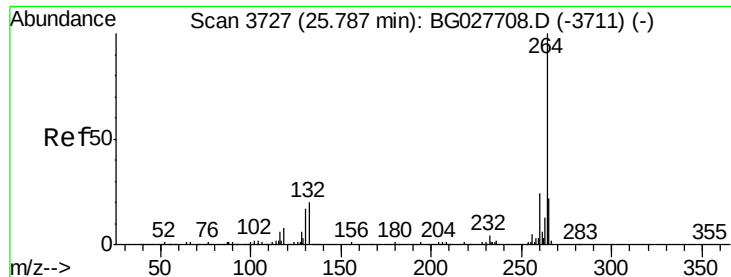
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E







#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 25.66 min Scan# 3757  
Delta R.T. -0.04 min  
Lab File: BG027900.D  
Acq: 10 Jul 2017 23:25

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 21.8  | 32.8  |
| 265     | 20.2  | 18.2  | 27.4  |

