

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG120617\  
 Data File : BG031385.D  
 Acq On : 6 Dec 2017 23:58  
 Operator : SJ/JU  
 Sample : I6718-18  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 07 02:42:55 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG111017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 06 17:58:37 2017  
 Response via : Initial Calibration

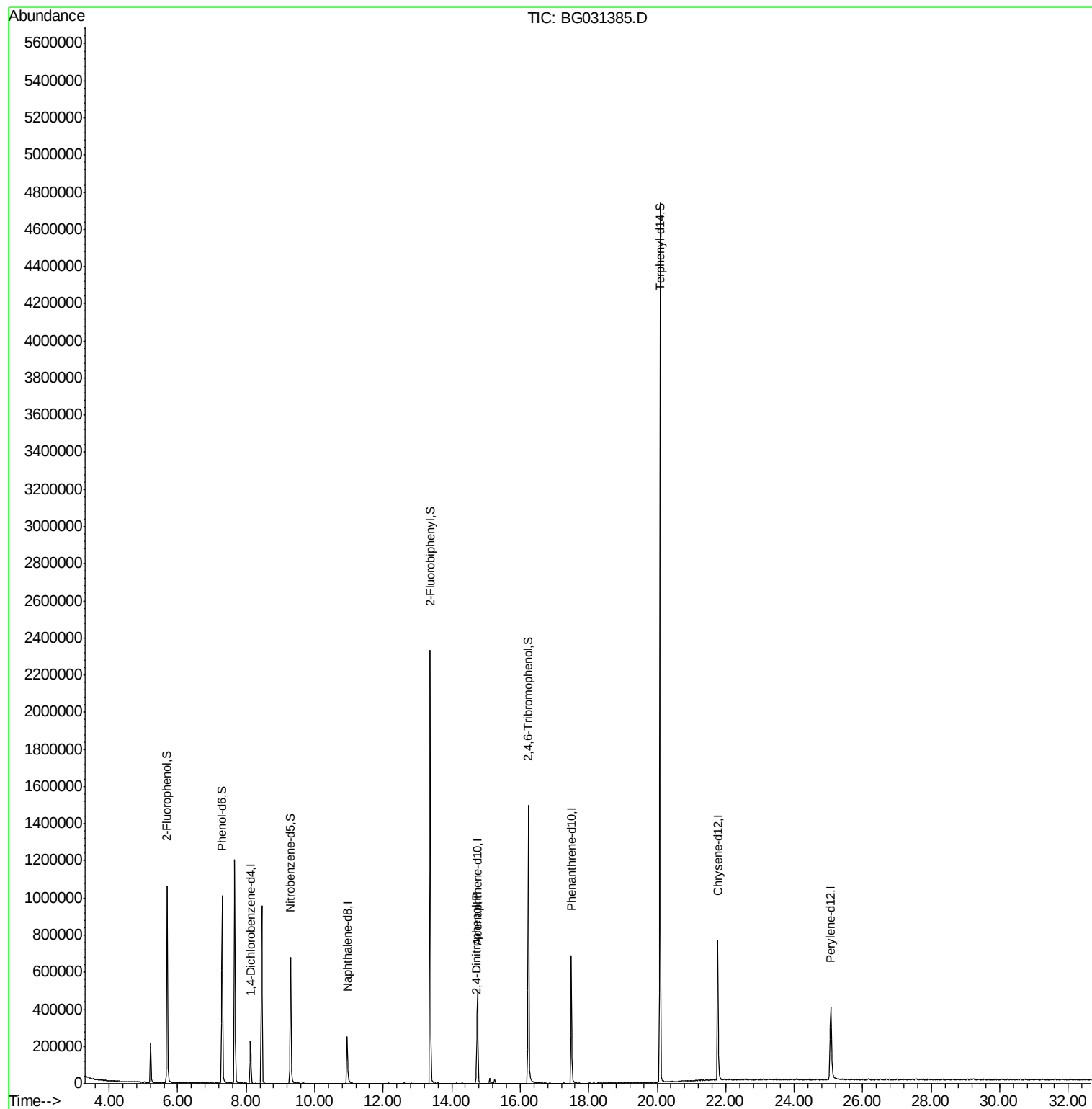
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)      |
|-----------------------------|-------|------|----------|--------|-------|---------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.13  | 152  | 70191    | 20.00  | ng    | 0.00          |
| 21) Naphthalene-d8          | 10.95 | 136  | 288465   | 20.00  | ng    | 0.00          |
| 38) Acenaphthene-d10        | 14.75 | 164  | 192194   | 20.00  | ng    | 0.00          |
| 63) Phenanthrene-d10        | 17.49 | 188  | 493482   | 20.00  | ng    | 0.00          |
| 75) Chrysene-d12            | 21.77 | 240  | 556813   | 20.00  | ng    | 0.00          |
| 86) Perylene-d12            | 25.07 | 264  | 511033   | 20.00  | ng    | 0.00          |
| System Monitoring Compounds |       |      |          |        |       |               |
| 5) 2-Fluorophenol           | 5.69  | 112  | 543750   | 132.84 | ng    | 0.00          |
| 7) Phenol-d6                | 7.30  | 99   | 639450   | 115.96 | ng    | 0.00          |
| 23) Nitrobenzene-d5         | 9.29  | 82   | 469683   | 96.48  | ng    | 0.00          |
| 41) 2,4,6-Tribromophenol    | 16.24 | 330  | 332024   | 106.79 | ng    | 0.00          |
| 44) 2-Fluorobiphenyl        | 13.37 | 172  | 1305079  | 97.57  | ng    | 0.00          |
| 78) Terphenyl-d14           | 20.08 | 244  | 2307382  | 91.50  | ng    | 0.00          |
| Target Compounds            |       |      |          |        |       |               |
| 53) 2,4-Dinitrophenol       | 14.73 | 184  | 203      | 5.965  | ng    | Qvalue<br># 1 |

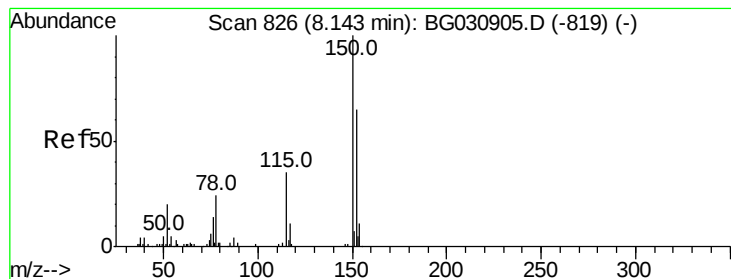
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG120617\  
Data File : BG031385.D  
Acq On : 6 Dec 2017 23:58  
Operator : SJ/JU  
Sample : I6718-18  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Dec 07 02:42:55 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG111017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Dec 06 17:58:37 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.13 min Scan# 823

Delta R.T. -0.00 min

Lab File: BG031385.D

Acq: 6 Dec 2017 23:58

Instrument :

BNA\_G

ClientSampleId :

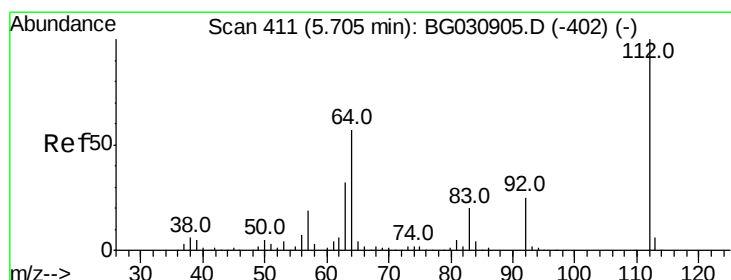
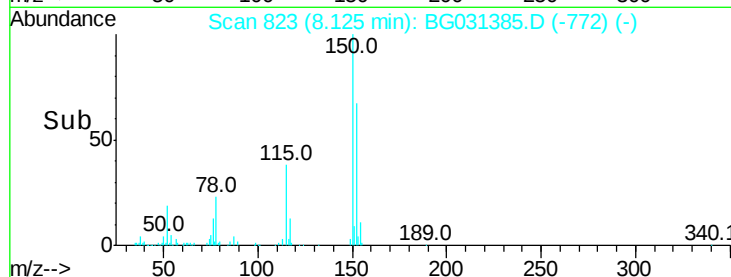
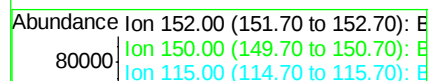
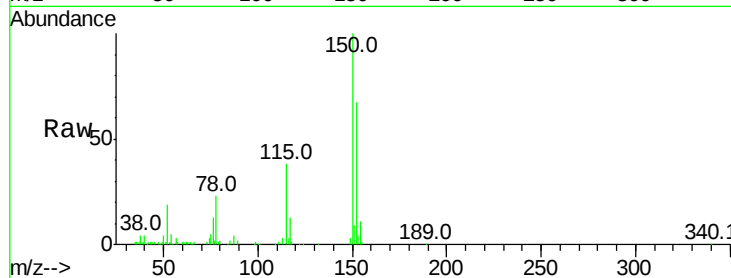
Tot Ion:152 Resp: 70191

Ion Ratio Lower Upper

152 100

150 150.3 126.6 189.8

115 56.5 53.0 79.4



#5

2-Fluorophenol

Concen: 132.838 ng

RT: 5.69 min Scan# 409

Delta R.T. 0.01 min

Lab File: BG031385.D

Acq: 6 Dec 2017 23:58

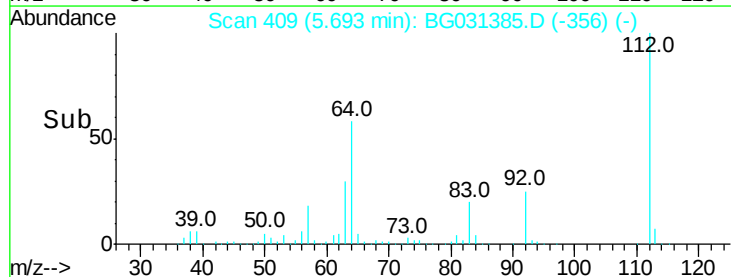
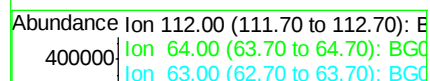
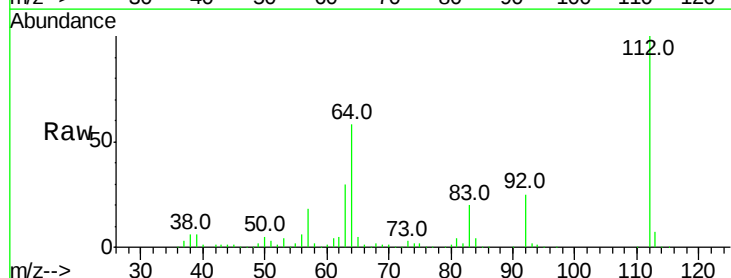
Tgt Ion:112 Resp: 543750

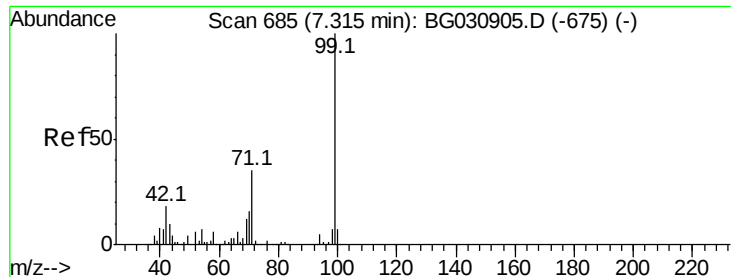
Ion Ratio Lower Upper

112 100

64 57.8 56.3 84.5

63 30.1 30.1 45.1





#7

Phenol-d6

Concen: 115.955 ng

RT: 7.30 min Scan# 682

Delta R.T. 0.00 min

Lab File: BG031385.D

Acq: 6 Dec 2017 23:58

Instrument :

BNA\_G

ClientSampleId :

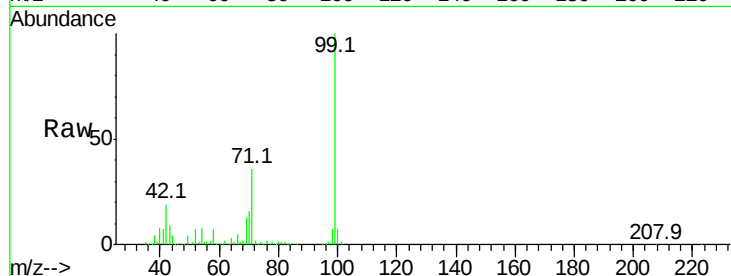
Tot Ion: 99 Resp: 639450

Ion Ratio Lower Upper

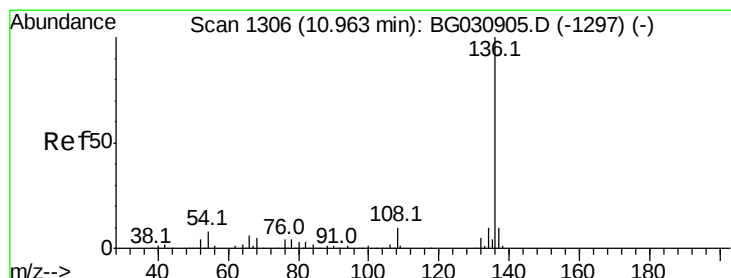
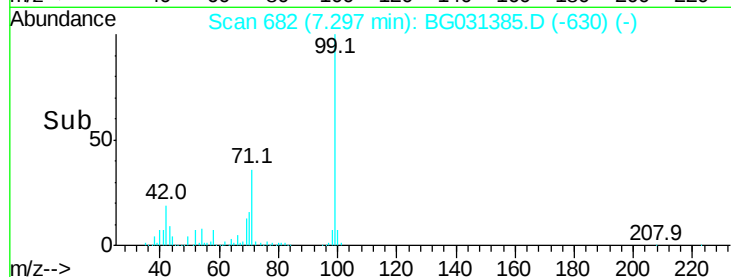
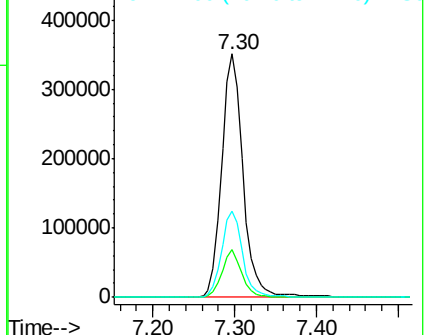
99 100

42 19.4 14.1 21.1

71 35.5 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: 10.95 min Scan# 1303

Delta R.T. 0.00 min

Lab File: BG031385.D

Acq: 6 Dec 2017 23:58

Tgt Ion: 136 Resp: 288465

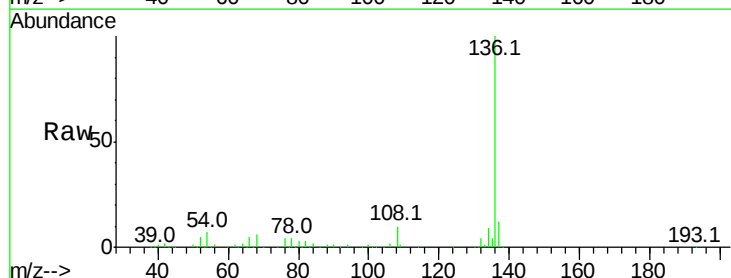
Ion Ratio Lower Upper

136 100

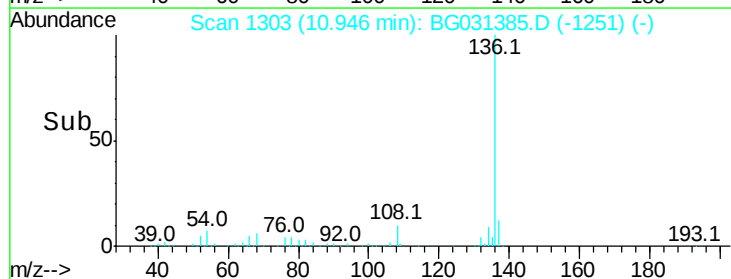
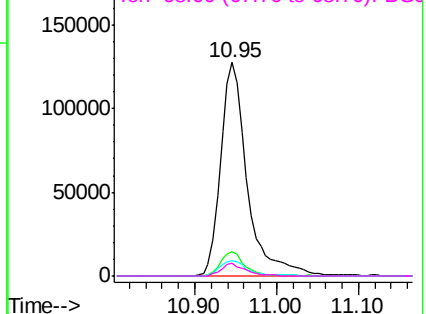
137 11.6 9.2 13.8

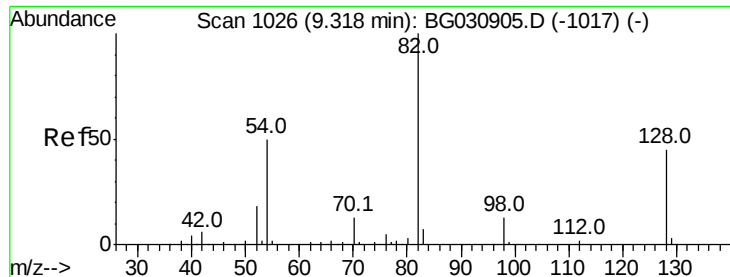
54 6.9 10.3 15.5#

68 6.2 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

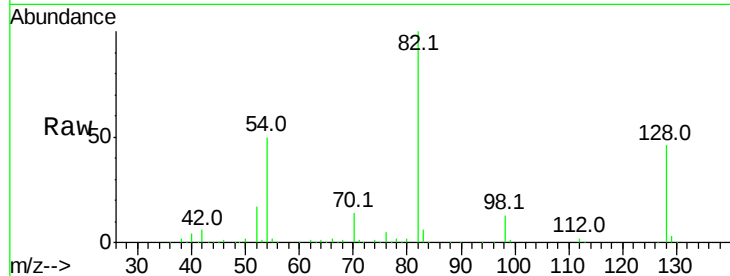




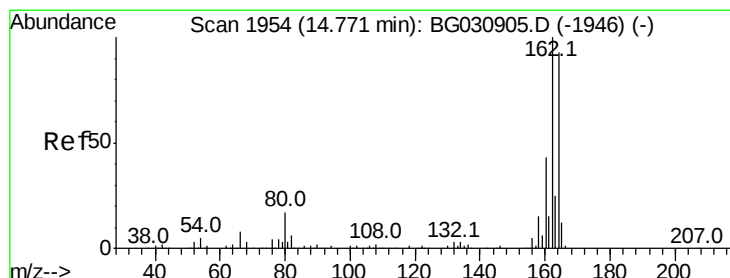
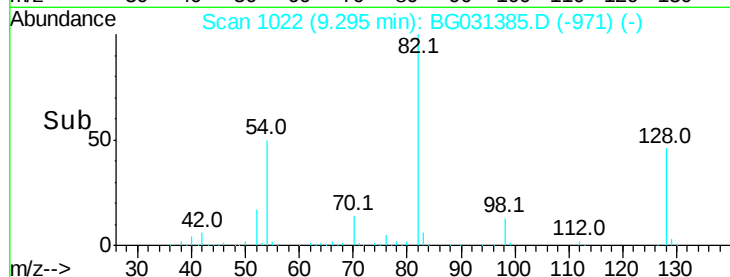
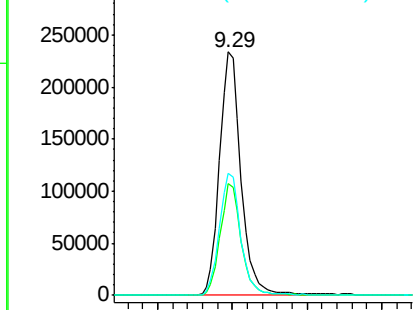
#23  
 Nitrobenzene-d5  
 Concen: 96.482 ng  
 RT: 9.29 min Scan# 1022  
 Delta R.T. -0.00 min  
 Lab File: BG031385.D  
 Acq: 6 Dec 2017 23:58

Instrument :  
 BNA\_G  
 ClientSampleID :

Tot Ion: 82 Resp: 469683  
 Ion Ratio Lower Upper  
 82 100  
 128 46.2 29.7 44.5#  
 54 50.4 43.1 64.7

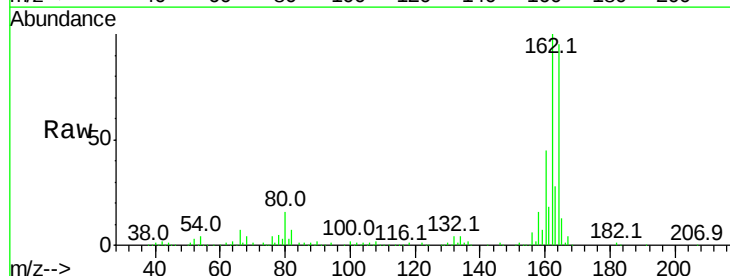


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

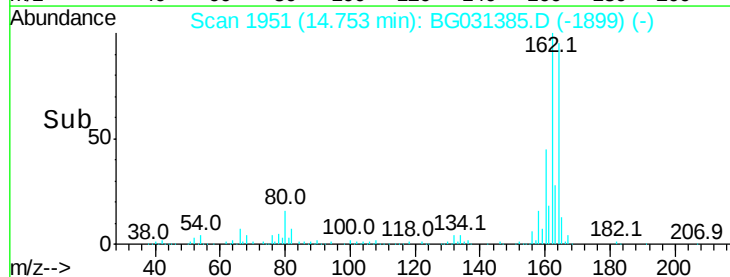
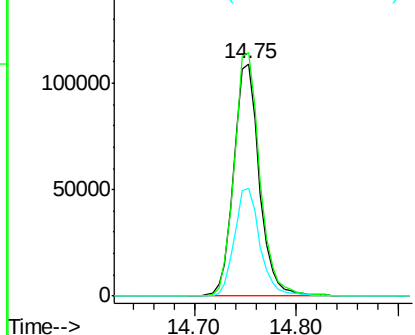


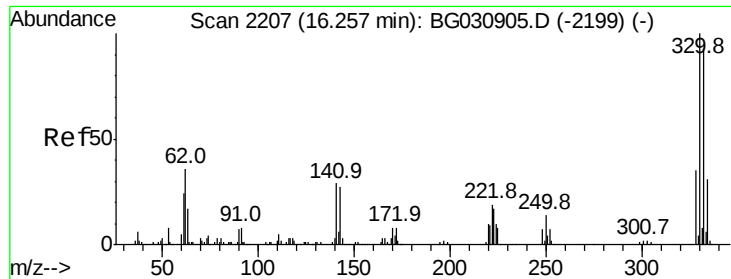
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.75 min Scan# 1951  
 Delta R.T. 0.00 min  
 Lab File: BG031385.D  
 Acq: 6 Dec 2017 23:58

Tgt Ion:164 Resp: 192194  
 Ion Ratio Lower Upper  
 164 100  
 162 104.8 78.8 118.2  
 160 46.7 35.4 53.0



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

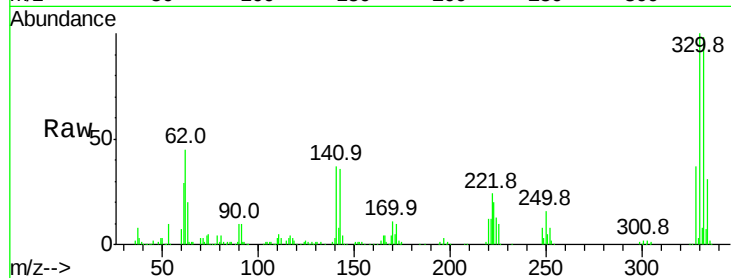




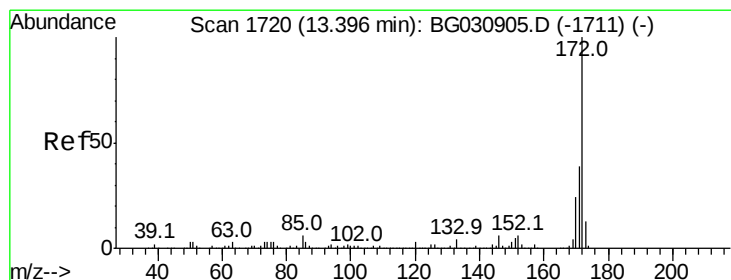
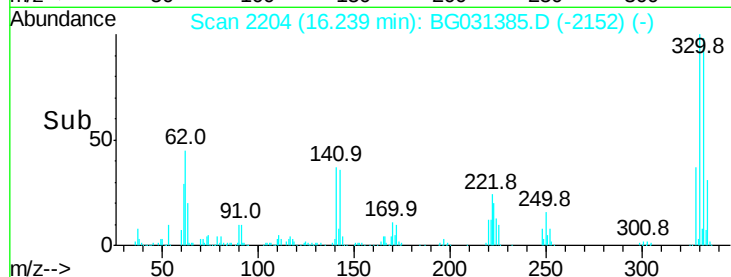
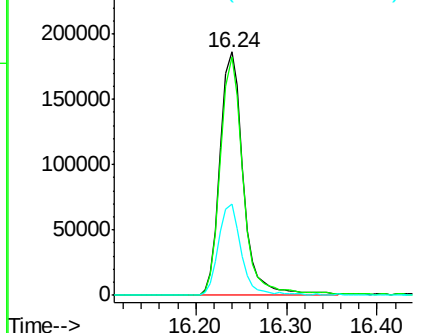
#41  
 2,4,6-Tribromophenol  
 Concen: 106.792 ng  
 RT: 16.24 min Scan# 2204  
 Delta R.T. 0.00 min  
 Lab File: BG031385.D  
 Acq: 6 Dec 2017 23:58

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.4  | 77.0  | 115.6 |
| 141     | 36.6  | 25.2  | 37.8  |

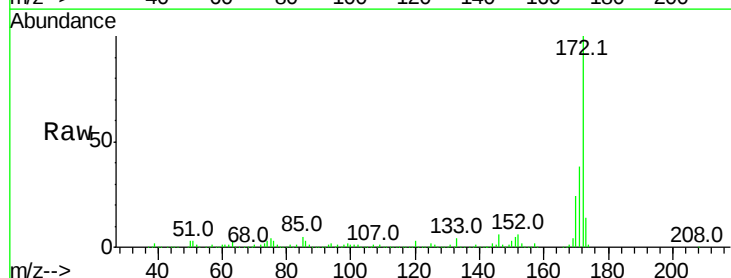


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

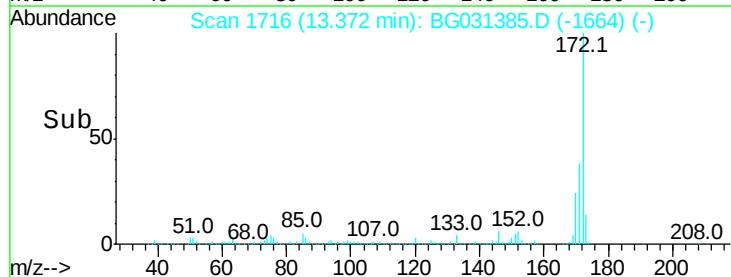
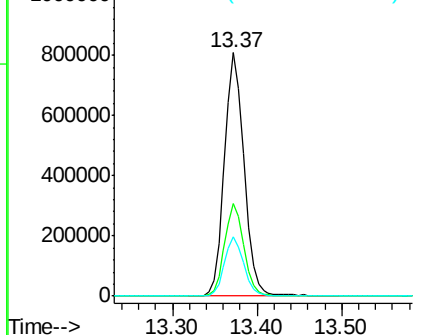


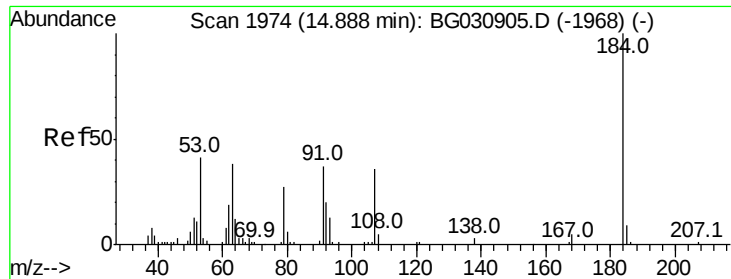
#44  
 2-Fluorobiphenyl  
 Concen: 97.571 ng  
 RT: 13.37 min Scan# 1716  
 Delta R.T. 0.00 min  
 Lab File: BG031385.D  
 Acq: 6 Dec 2017 23:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.0  | 30.0  | 45.0  |
| 170     | 24.5  | 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

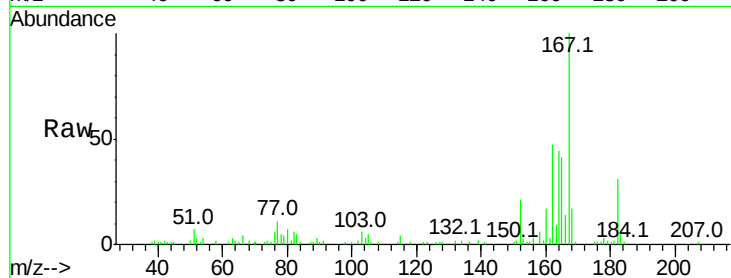




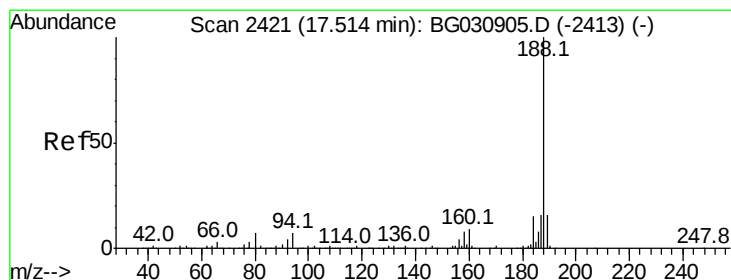
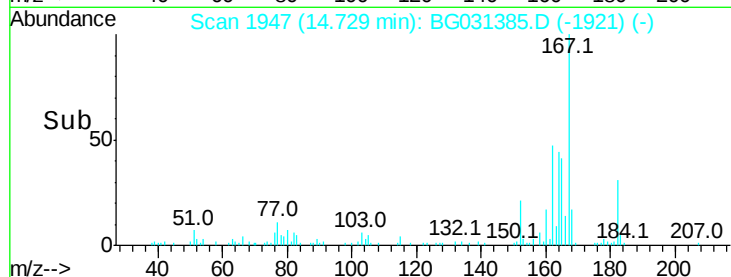
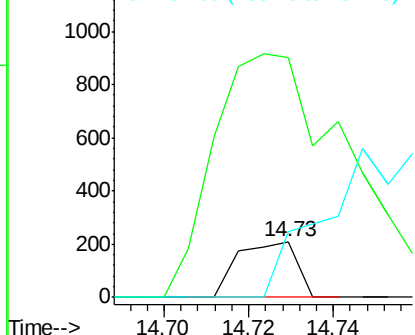
#53  
 2,4-Dinitrophenol  
 Concen: 5.965 ng  
 RT: 14.73 min Scan# 1947  
 Delta R.T. -0.15 min  
 Lab File: BG031385.D  
 Acq: 6 Dec 2017 23:58

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:184 Resp: 203  
 Ion Ratio Lower Upper  
 184 100  
 63 427.5 59.8 89.8#  
 154 117.5 101.8 152.8

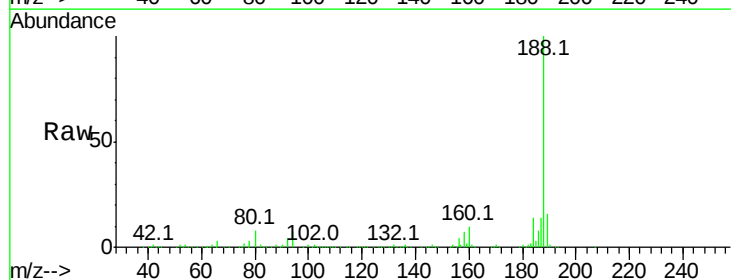


Abundance Ion 184.00 (183.70 to 184.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 154.00 (153.70 to 154.70): E

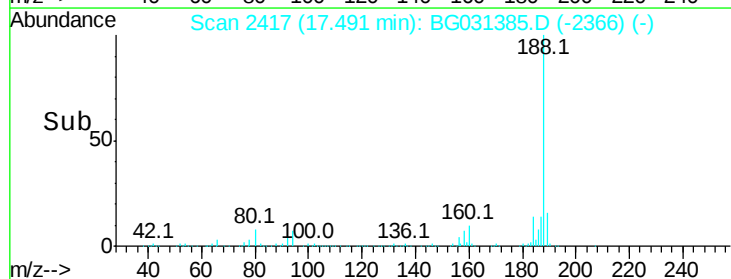
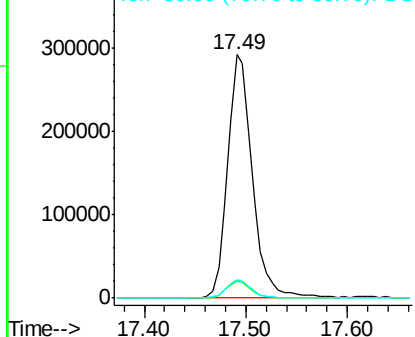


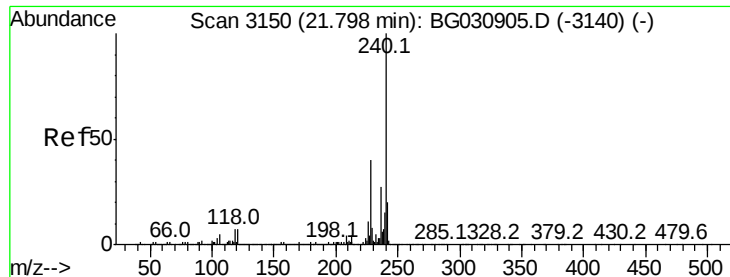
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.49 min Scan# 2417  
 Delta R.T. -0.00 min  
 Lab File: BG031385.D  
 Acq: 6 Dec 2017 23:58

Tgt Ion:188 Resp: 493482  
 Ion Ratio Lower Upper  
 188 100  
 94 6.8 6.9 10.3#  
 80 7.6 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: 21.77 min Scan# 3145

Delta R.T. -0.00 min

Lab File: BG031385.D

Acq: 6 Dec 2017 23:58

Instrument :

BNA\_G

ClientSampleId :

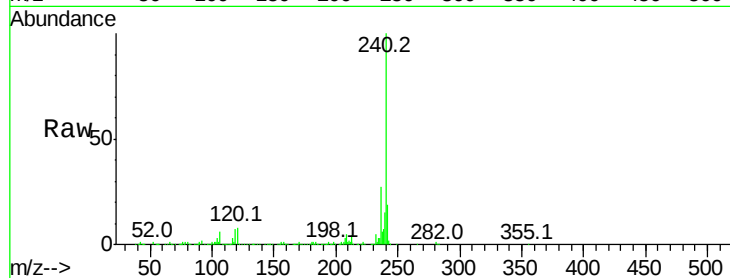
Tot Ion:240 Resp: 556813

Ion Ratio Lower Upper

240 100

120 7.6 6.8 10.2

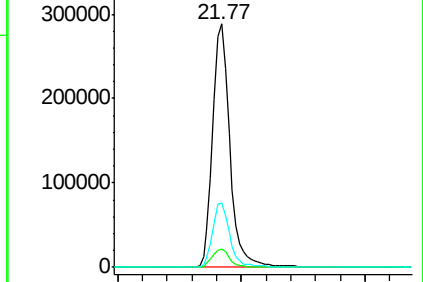
236 26.6 20.9 31.3



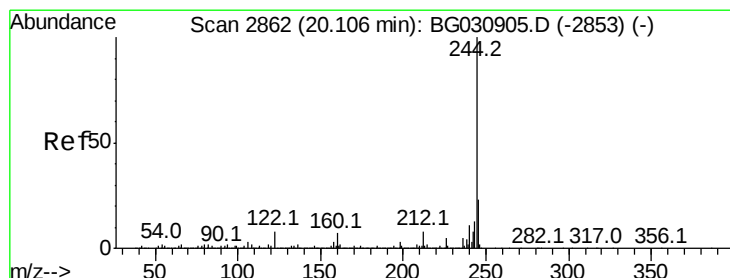
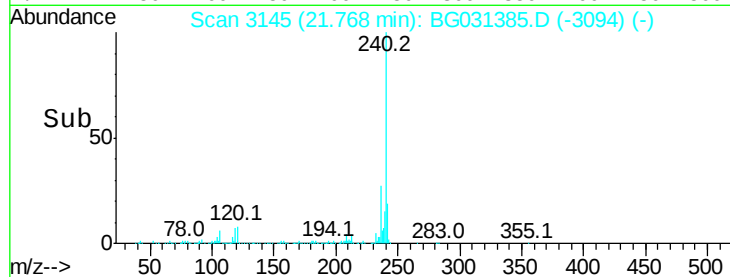
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



Time--> 21.60 21.80 22.00



#78

Terphenyl-d14

Concen: 91.501 ng

RT: 20.08 min Scan# 2858

Delta R.T. -0.00 min

Lab File: BG031385.D

Acq: 6 Dec 2017 23:58

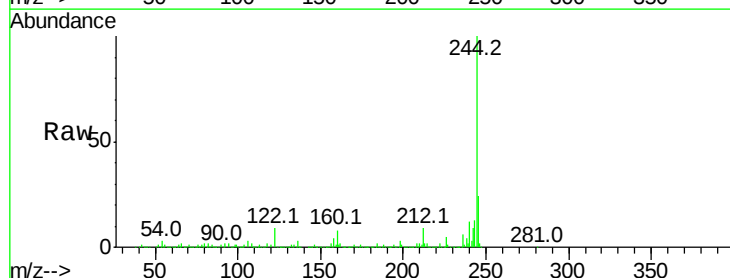
Tgt Ion:244 Resp: 2307382

Ion Ratio Lower Upper

244 100

212 9.2 5.8 8.8#

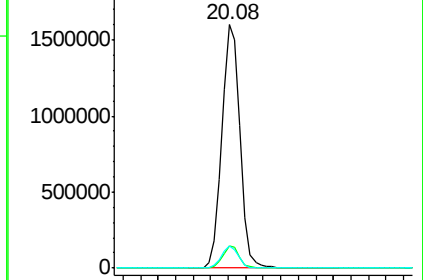
122 9.1 7.0 10.4



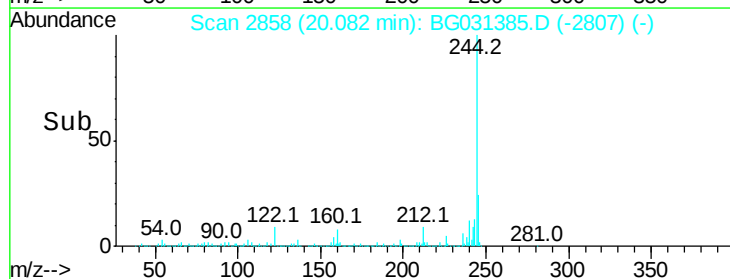
Abundance Ion 244.00 (243.70 to 244.70): E

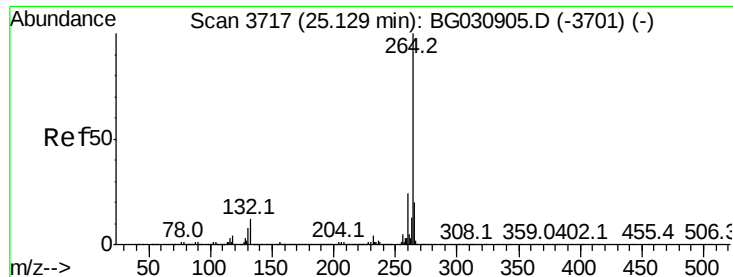
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time--> 20.00 20.10 20.20





#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 25.07 min Scan# 3707  
Delta R.T. 0.00 min  
Lab File: BG031385.D  
Acq: 6 Dec 2017 23:58

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.5  | 17.4  | 26.0  |
| 265     | 21.5  | 17.7  | 26.5  |

