

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG121417\  
 Data File : BG031580.D  
 Acq On : 15 Dec 2017 5:14  
 Operator : SJ/JU  
 Sample : PB105019TB  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 15 08:00:44 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG121117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 11 17:25:55 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.10  | 152  | 70068    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.92 | 136  | 280161   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.72 | 164  | 183825   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.47 | 188  | 483847   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 21.73 | 240  | 599344   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 25.01 | 264  | 508651   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.66  | 112  | 600732   | 151.97 | ng    | 0.00     |
| 7) Phenol-d6                | 7.27  | 99   | 728717   | 132.79 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.27  | 82   | 432530   | 95.16  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.21 | 330  | 329084   | 152.81 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.34 | 172  | 1220342  | 97.45  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.06 | 244  | 2216411  | 84.14  | ng    | 0.00     |

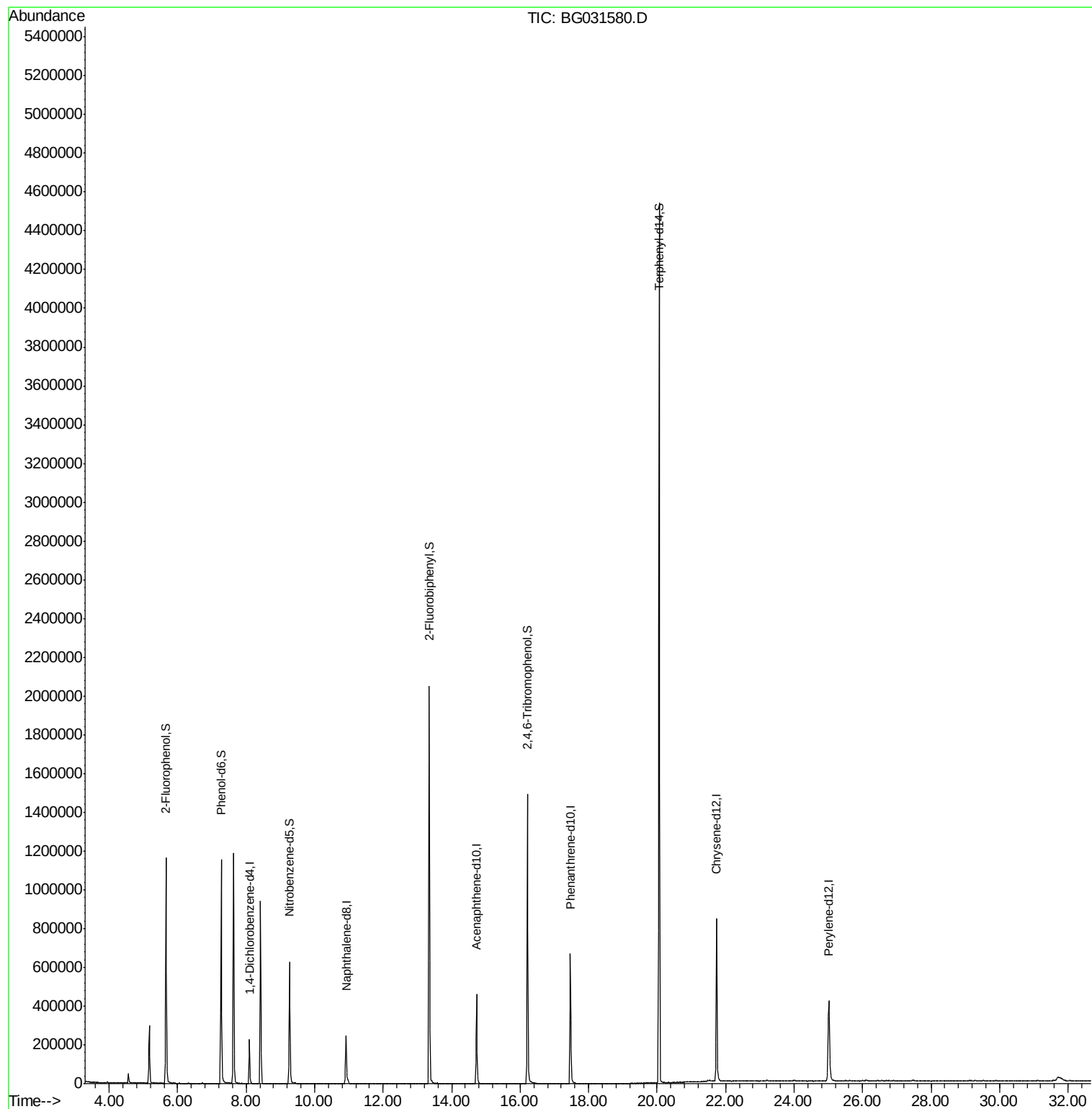
Target Compounds Qvalue

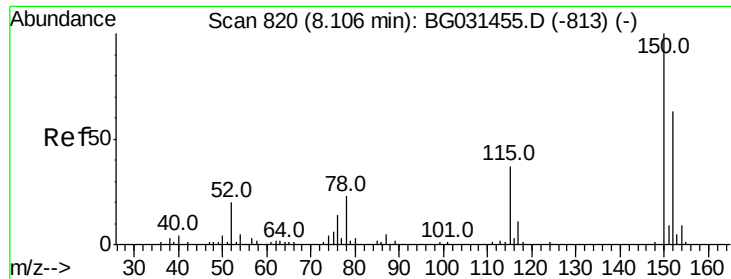
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG121417\  
Data File : BG031580.D  
Acq On : 15 Dec 2017 5:14  
Operator : SJ/JU  
Sample : PB105019TB  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Dec 15 08:00:44 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG121117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 11 17:25:55 2017  
Response via : Initial Calibration



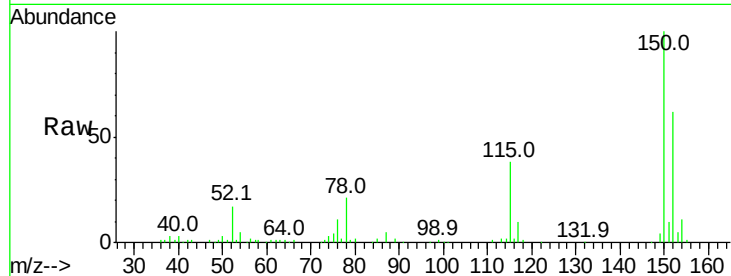


#1

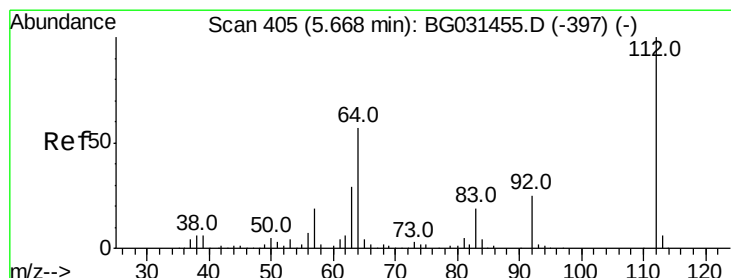
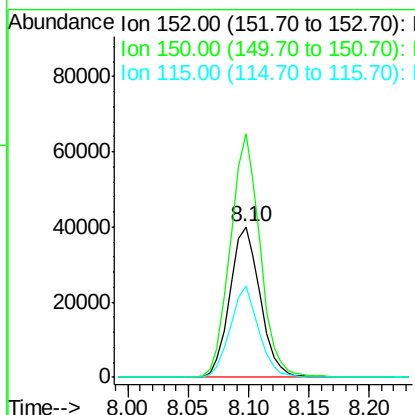
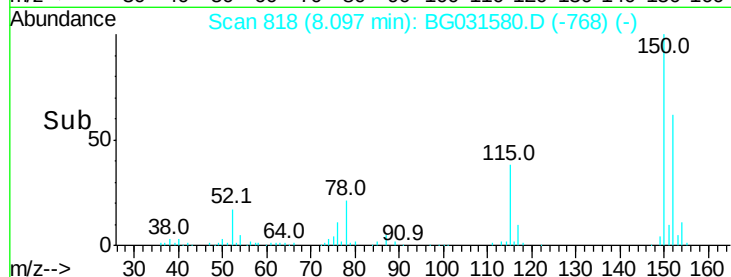
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.10 min Scan# 818  
Delta R.T. -0.01 min  
Lab File: BG031580.D  
Acq: 15 Dec 2017 5:14

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 70068  
Ion Ratio Lower Upper  
152 100  
150 161.6 126.6 189.8  
115 61.0 53.0 79.4



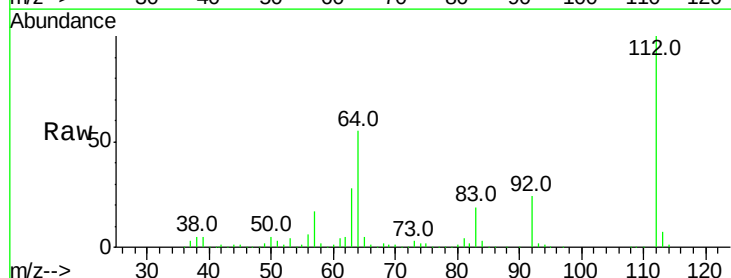
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



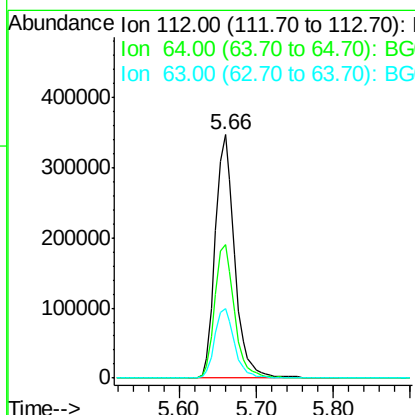
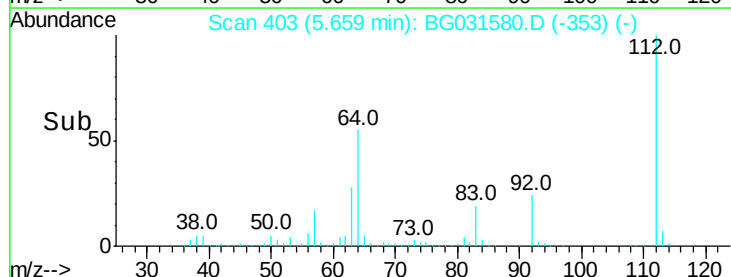
#5

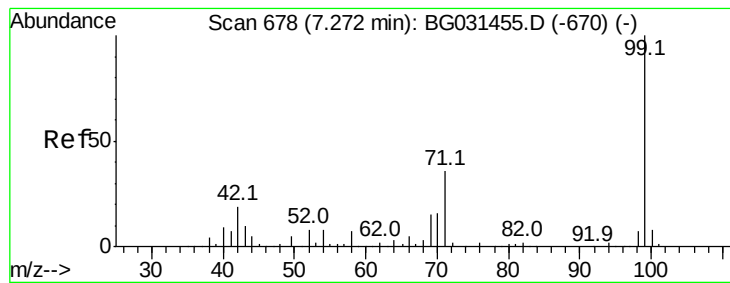
2-Fluorophenol  
Concen: 151.968 ng  
RT: 5.66 min Scan# 403  
Delta R.T. -0.01 min  
Lab File: BG031580.D  
Acq: 15 Dec 2017 5:14

Tgt Ion:112 Resp: 600732  
Ion Ratio Lower Upper  
112 100  
64 55.0 56.3 84.5#  
63 28.4 30.1 45.1#



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: 132.791 ng

RT: 7.27 min Scan# 677

Delta R.T. -0.00 min

Lab File: BG031580.D

Acq: 15 Dec 2017 5:14

Instrument :

BNA\_G

ClientSampleId :

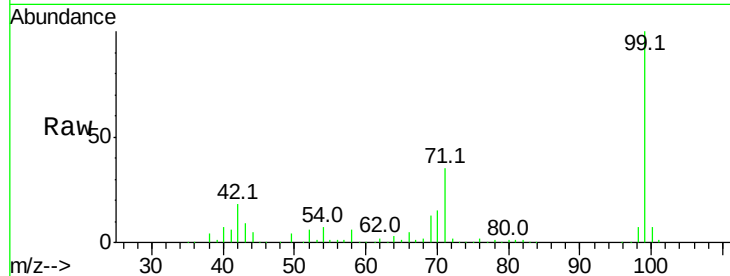
Tot Ion: 99 Resp: 728717

Ion Ratio Lower Upper

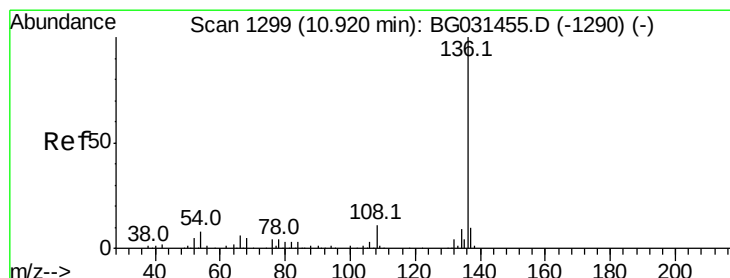
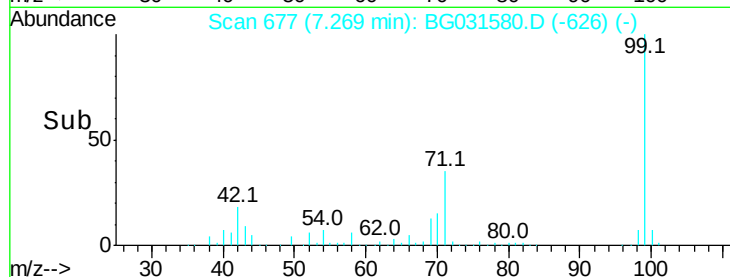
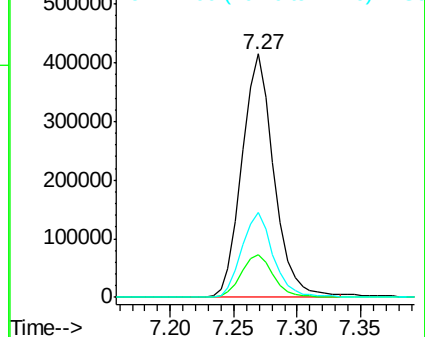
99 100

42 17.5 14.1 21.1

71 34.7 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: 10.92 min Scan# 1298

Delta R.T. -0.00 min

Lab File: BG031580.D

Acq: 15 Dec 2017 5:14

Tgt Ion: 136 Resp: 280161

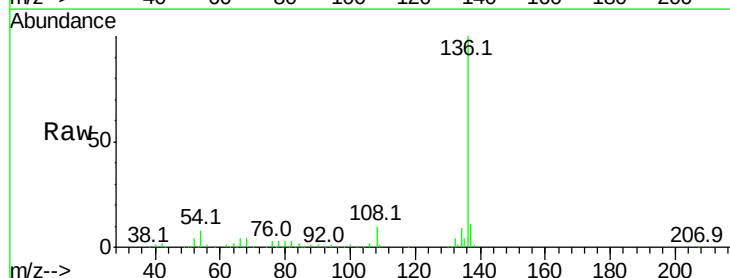
Ion Ratio Lower Upper

136 100

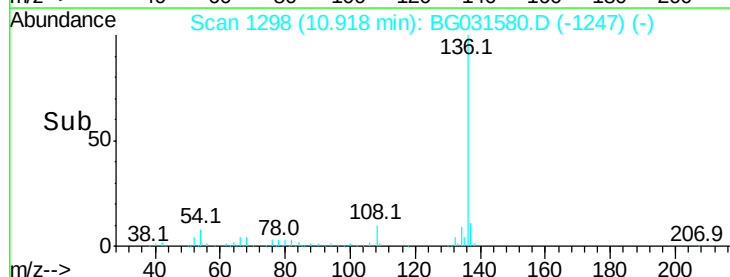
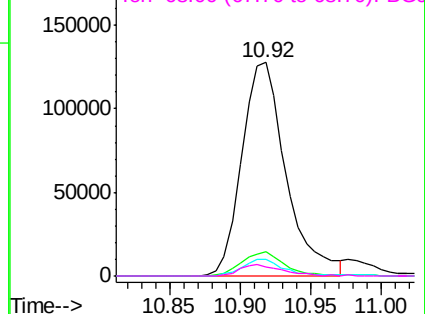
137 11.4 9.2 13.8

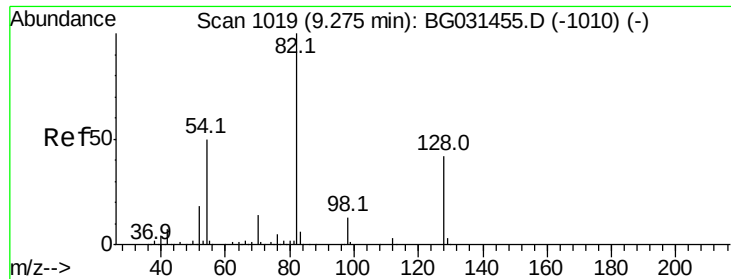
54 7.8 10.3 15.5#

68 4.2 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

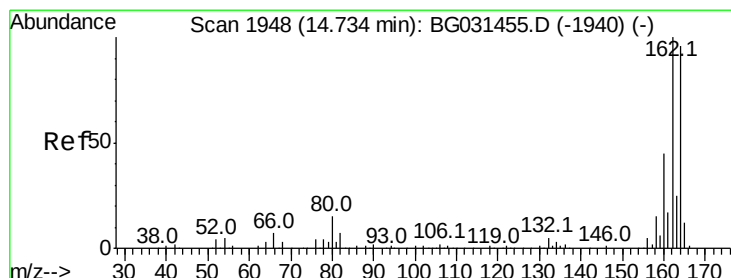
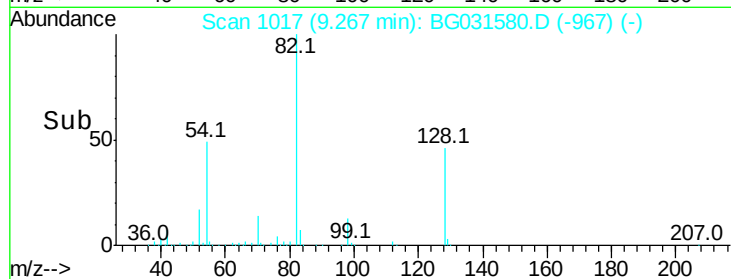
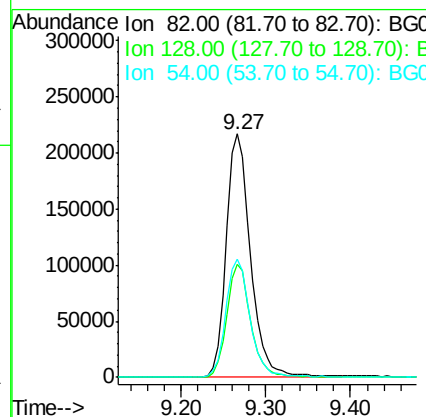
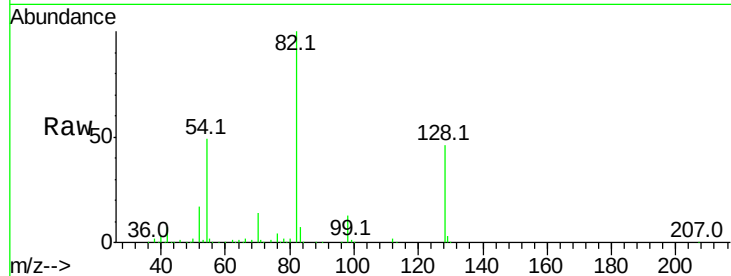




#23  
 Nitrobenzene-d5  
 Concen: 95.159 ng  
 RT: 9.27 min Scan# 1017  
 Delta R.T. -0.01 min  
 Lab File: BG031580.D  
 Acq: 15 Dec 2017 5:14

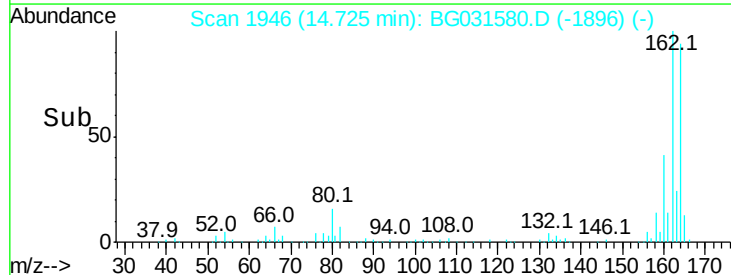
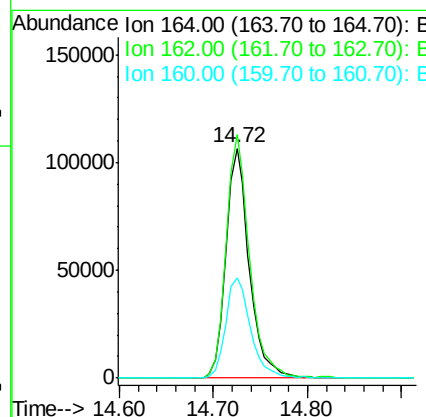
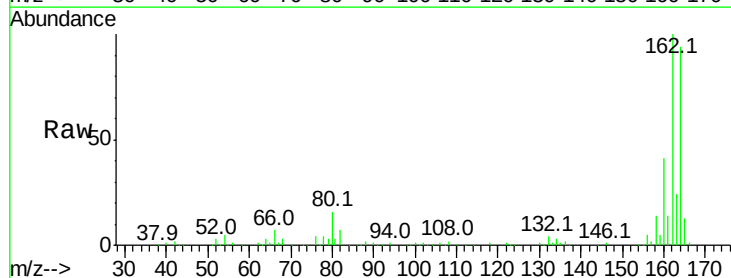
Instrument :  
 BNA\_G  
 ClientSampled :

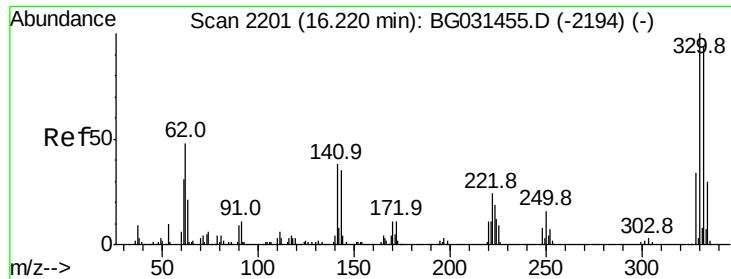
| Tot Ion   | 82    | Resp  | 432530 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 46.3  | 29.7  | 44.5#  |
| 54        | 48.7  | 43.1  | 64.7   |



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.72 min Scan# 1946  
 Delta R.T. -0.01 min  
 Lab File: BG031580.D  
 Acq: 15 Dec 2017 5:14

| Tgt Ion   | 164   | Resp  | 183825 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 106.1 | 78.8  | 118.2  |
| 160       | 43.9  | 35.4  | 53.0   |

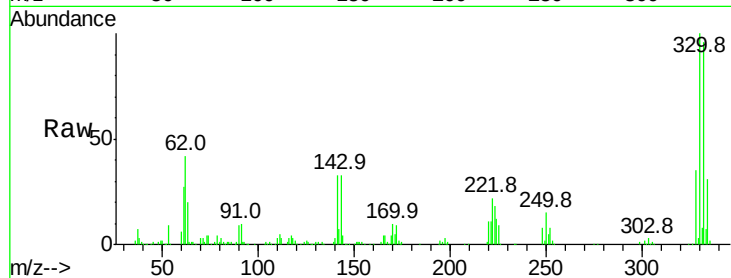




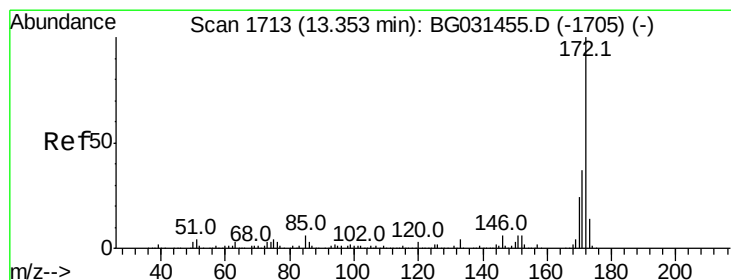
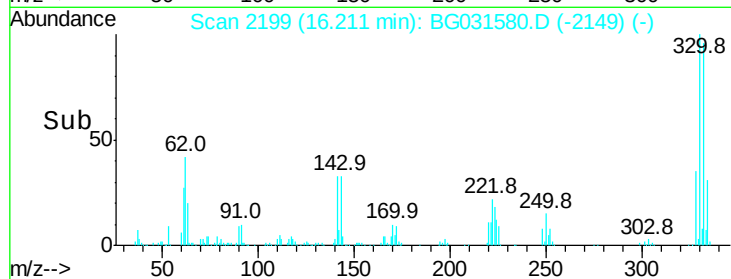
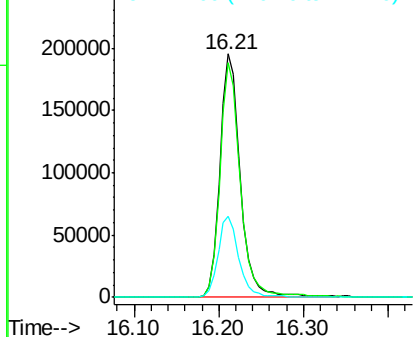
#41  
 2,4,6-Tribromophenol  
 Concen: 152.807 ng  
 RT: 16.21 min Scan# 2199  
 Delta R.T. -0.01 min  
 Lab File: BG031580.D  
 Acq: 15 Dec 2017 5:14

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:330 Resp: 329084  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 77.0 115.6  
 141 34.0 25.2 37.8

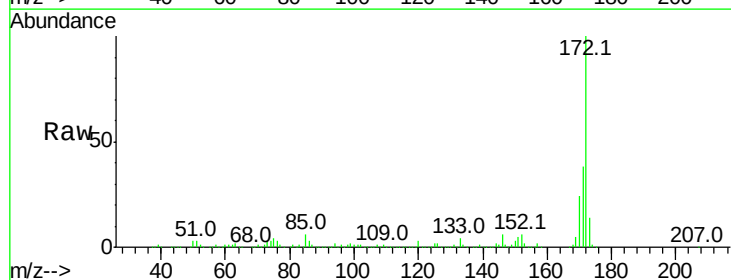


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

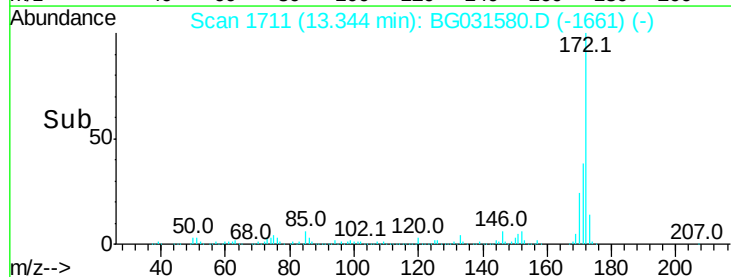
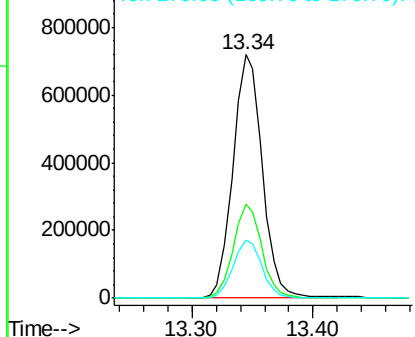


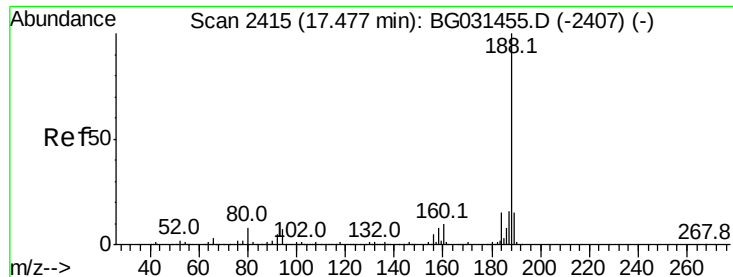
#44  
 2-Fluorobiphenyl  
 Concen: 97.446 ng  
 RT: 13.34 min Scan# 1711  
 Delta R.T. -0.01 min  
 Lab File: BG031580.D  
 Acq: 15 Dec 2017 5:14

Tgt Ion:172 Resp: 1220342  
 Ion Ratio Lower Upper  
 172 100  
 171 38.4 30.0 45.0  
 170 24.1 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

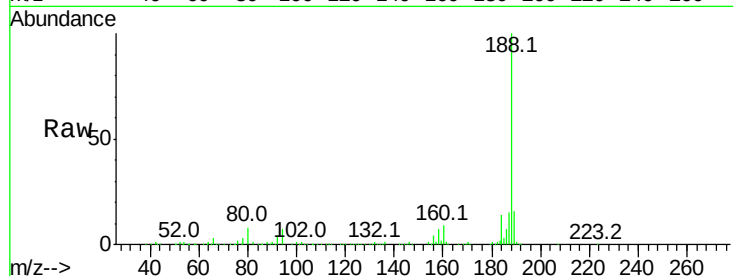




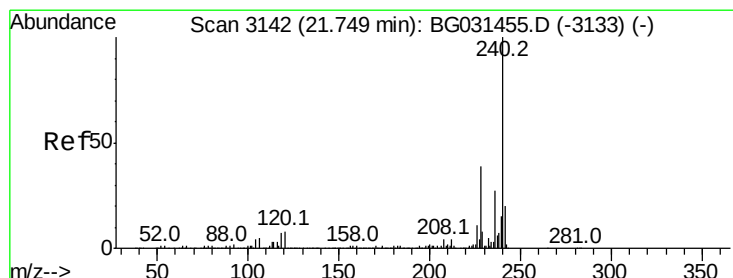
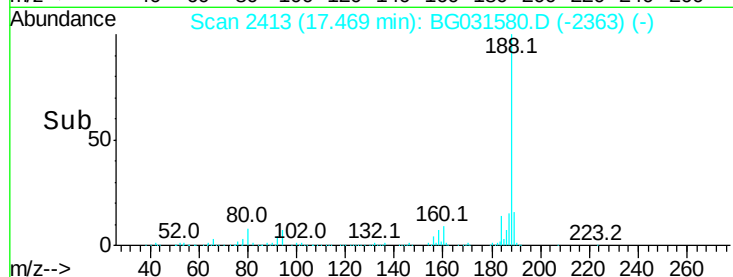
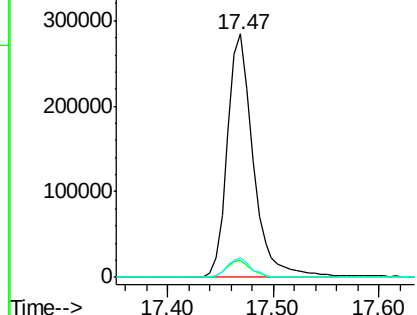
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.47 min Scan# 2413  
Delta R.T. -0.01 min  
Lab File: BG031580.D  
Acq: 15 Dec 2017 5:14

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:188 Resp: 483847  
Ion Ratio Lower Upper  
188 100  
94 6.8 6.9 10.3#  
80 8.0 7.7 11.5

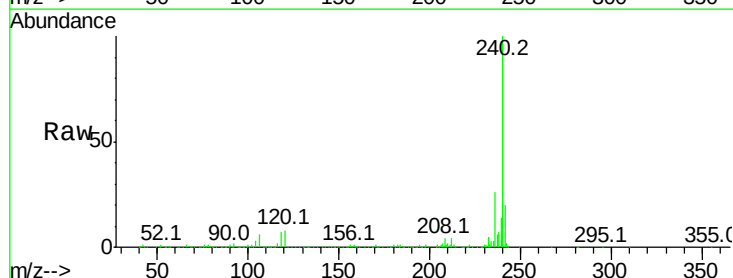


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

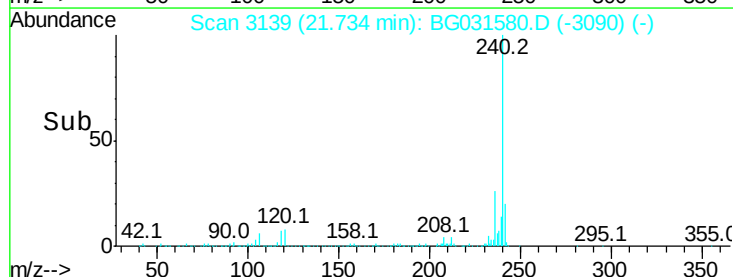
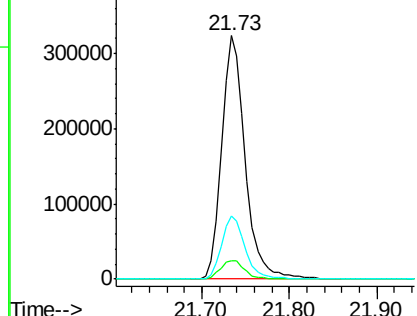


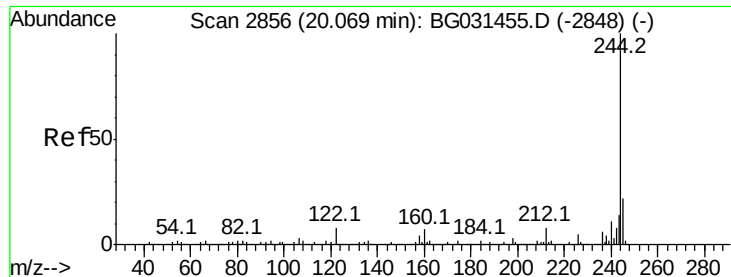
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.73 min Scan# 3139  
Delta R.T. -0.01 min  
Lab File: BG031580.D  
Acq: 15 Dec 2017 5:14

Tgt Ion:240 Resp: 599344  
Ion Ratio Lower Upper  
240 100  
120 7.7 6.8 10.2  
236 25.8 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





#78

Terphenyl-d14

Concen: 84.137 ng

RT: 20.06 min Scan# 2854

Delta R.T. -0.01 min

Lab File: BG031580.D

Acq: 15 Dec 2017 5:14

Instrument :

BNA\_G

ClientSampleId :

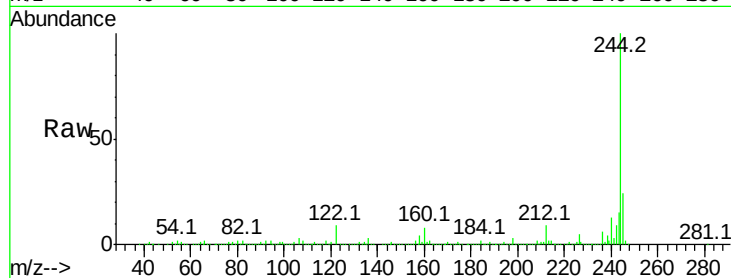
Tot Ion:244 Resp: 2216411

Ion Ratio Lower Upper

244 100

212 8.9 5.8 8.8#

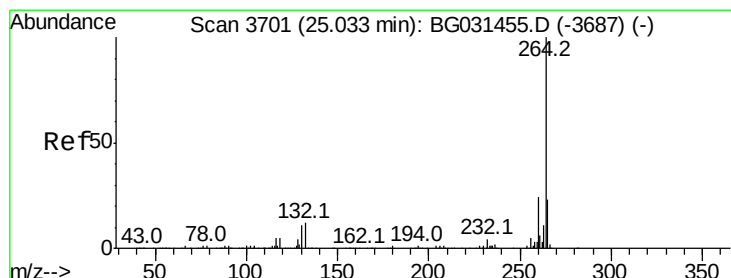
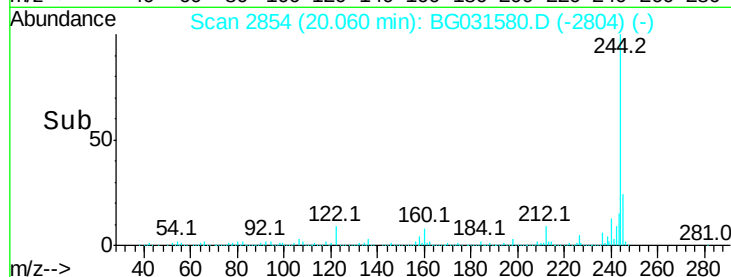
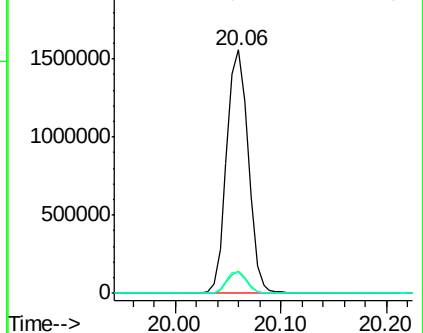
122 8.8 7.0 10.4



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

Perylene-d12

Concen: 20.000 ng

RT: 25.01 min Scan# 3697

Delta R.T. -0.02 min

Lab File: BG031580.D

Acq: 15 Dec 2017 5:14

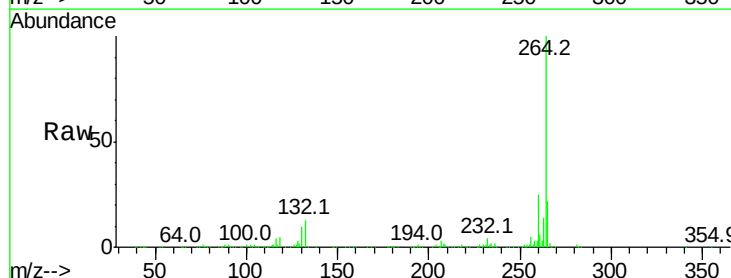
Tgt Ion:264 Resp: 508651

Ion Ratio Lower Upper

264 100

260 25.0 17.4 26.0

265 21.6 17.7 26.5



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

