

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG061515\  
 Data File : BG017692.D  
 Acq On : 15 Jun 2015 16:21  
 Operator : TP/IZ  
 Sample : G2522-20DL2 200X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-16DL2

Quant Time: Jun 16 01:46:44 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG061215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jun 13 02:22:44 2015  
 Response via : Initial Calibration

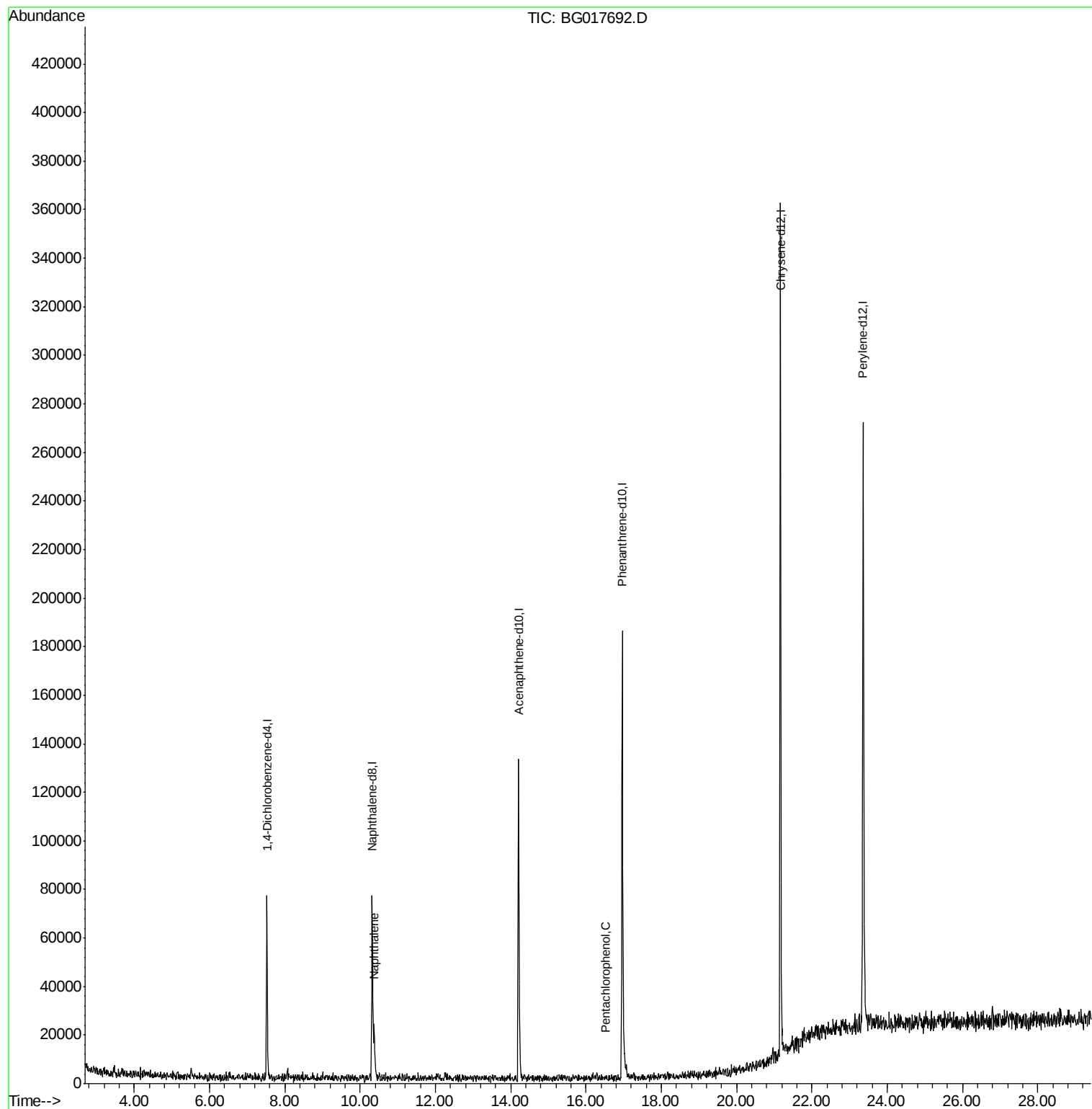
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.52  | 152  | 15676    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.32 | 136  | 54480    | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.21 | 164  | 45395    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 16.96 | 188  | 125735   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 21.17 | 240  | 188676   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 23.36 | 264  | 197669   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.10  | 112  | 72       | 0.09  | ng    | -0.02    |
| 7) Phenol-d6                | 0.00  | 99   | 0        | 0.00  | ng    |          |
| 23) Nitrobenzene-d5         | 8.80  | 82   | 74       | 0.06  | ng    | 0.11     |
| 41) 2,4,6-Tribromophenol    | 0.00  | 330  | 0        | 0.00  | ng    |          |
| 44) 2-Fluorobiphenyl        | 12.87 | 172  | 62       | 0.02  | ng    | 0.05     |
| 78) Terphenyl-d14           | 19.61 | 244  | 324      | 0.04  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 31) Naphthalene             | 10.37 | 128  | 9558     | 3.25  | ng    | # 94     |
| 69) Pentachlorophenol       | 16.52 | 266  | 84       | 6.28  | ng    | # 17     |

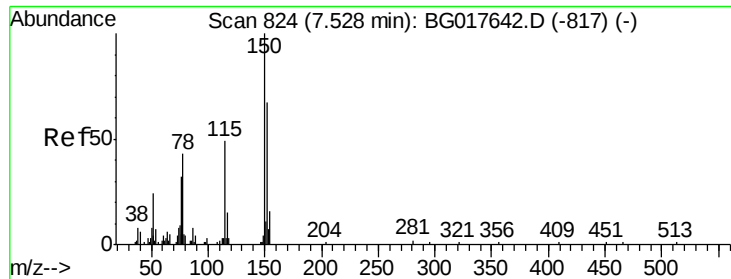
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jun 16 01:46:44 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG061215.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Jun 13 02:22:44 2015  
Response via : Initial Calibration



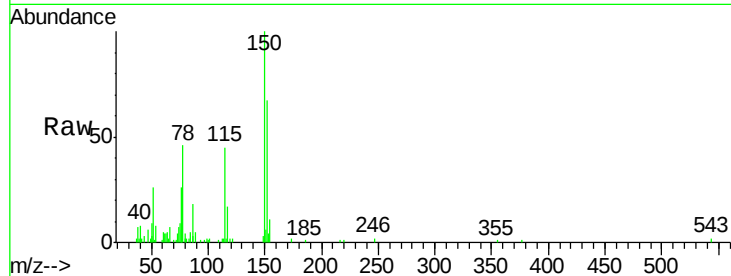


#1

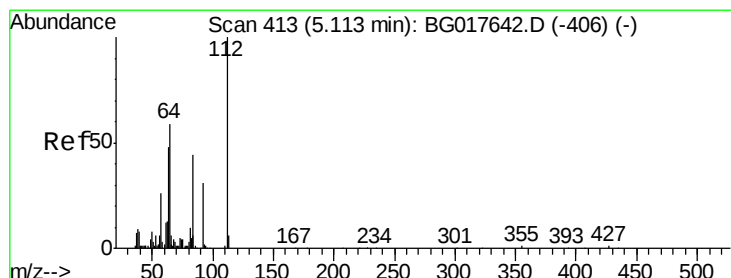
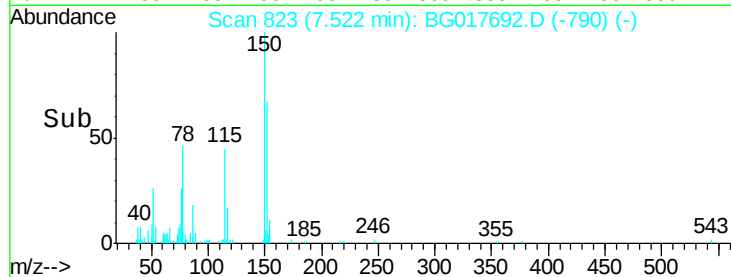
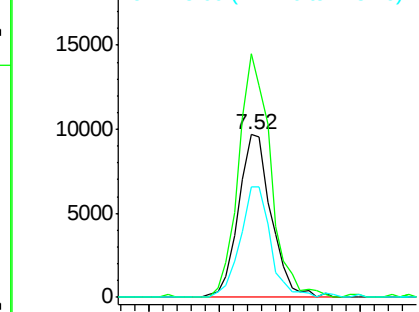
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.52 min Scan# 823  
Delta R.T. -0.01 min  
Lab File: BG017692.D  
Acq: 15 Jun 2015 16:21

Instrument :  
BNA\_G  
ClientSampleId :  
MW-16DL2

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.5 | 119.4 | 179.0 |
| 115     | 68.0  | 58.2  | 87.2  |



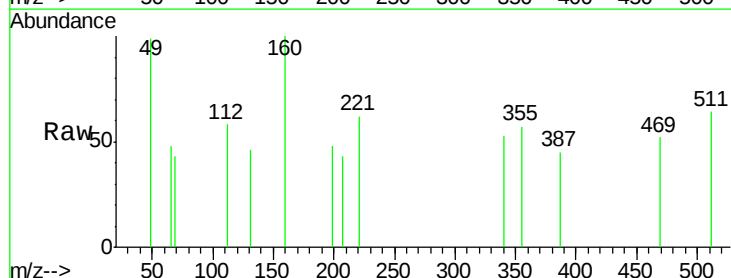
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



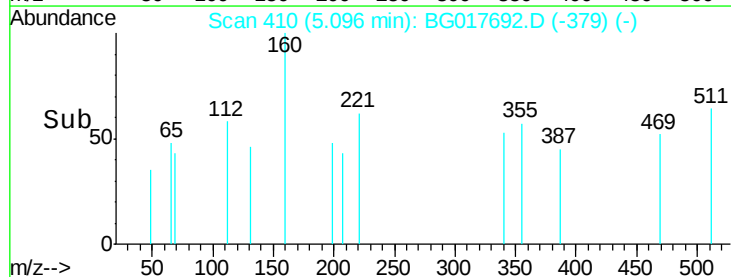
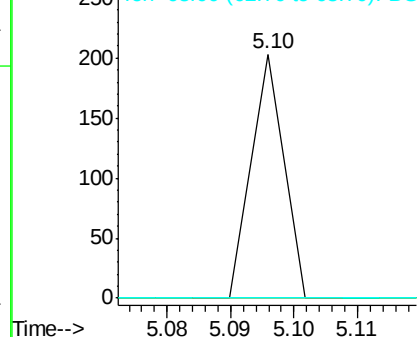
#5

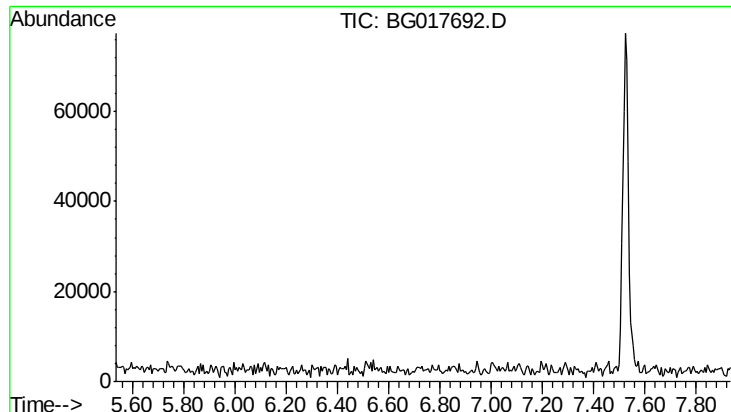
2-Fluorophenol  
Concen: 0.09 ng  
RT: 5.10 min Scan# 410  
Delta R.T. -0.02 min  
Lab File: BG017692.D  
Acq: 15 Jun 2015 16:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 0.0   | 47.0  | 70.6# |
| 63      | 0.0   | 38.6  | 58.0# |



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

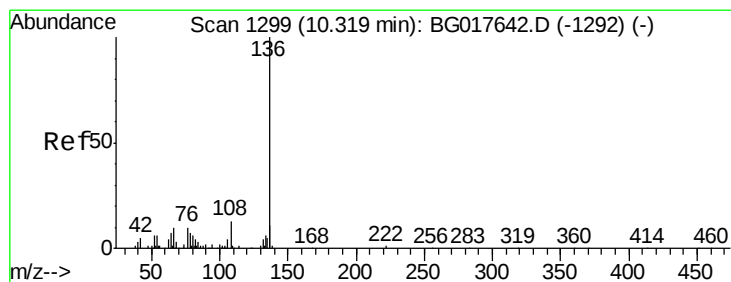
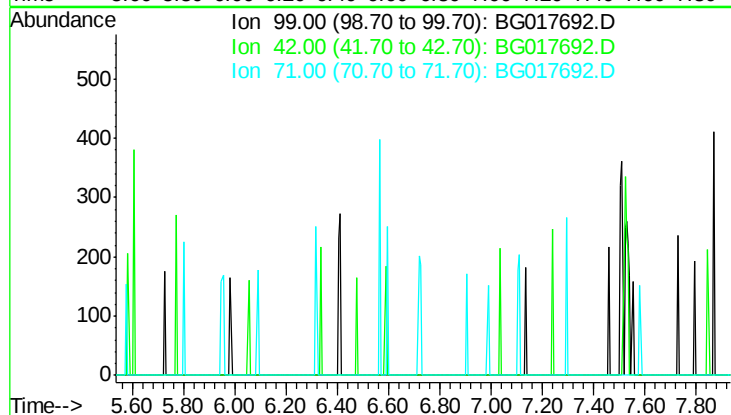




#7  
 Phenol-d6  
 Concen: 0.00 ng  
 Expected RT: 6.74 min  
 Lab File: BG017692.D  
 Acq: 15 Jun 2015 16:21

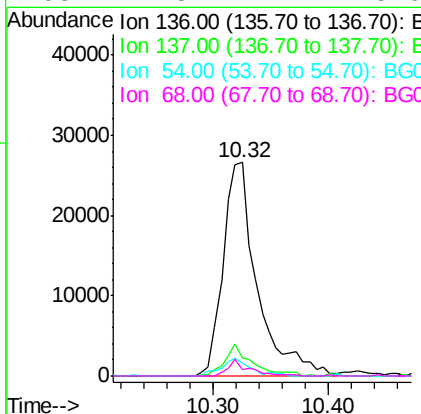
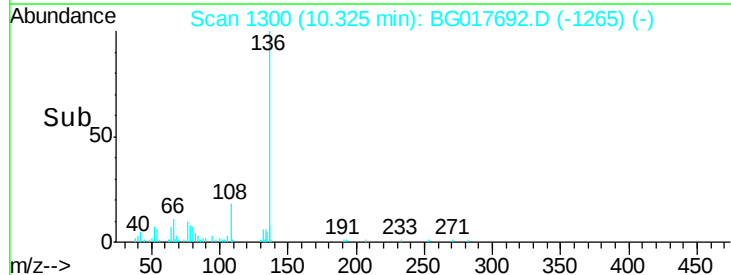
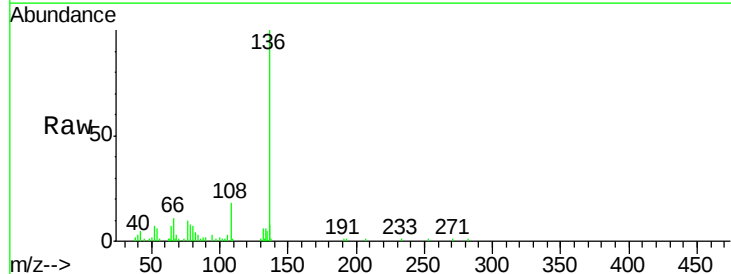
Instrument :  
 BNA\_G  
 ClientSampleId :  
 MW-16DL2

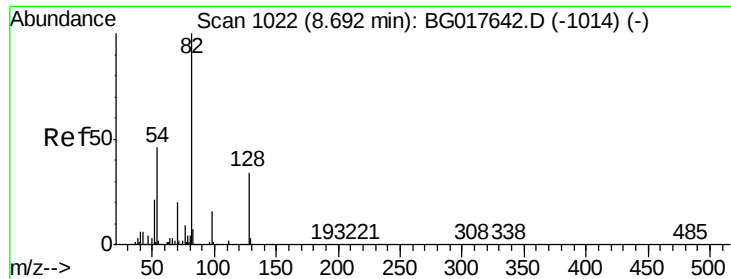
Tgt Ion: 99  
 Sig Exp Ratio  
 99 100  
 42 21.8  
 71 59.2



#21  
 Naphthalene-d8  
 Concen: 20.00 ng  
 RT: 10.32 min Scan# 1300  
 Delta R.T. 0.01 min  
 Lab File: BG017692.D  
 Acq: 15 Jun 2015 16:21

Tgt Ion: 136 Resp: 54480  
 Ion Ratio Lower Upper  
 136 100  
 137 8.4 8.7 13.1#  
 54 5.7 4.7 7.1  
 68 2.8 2.4 3.6

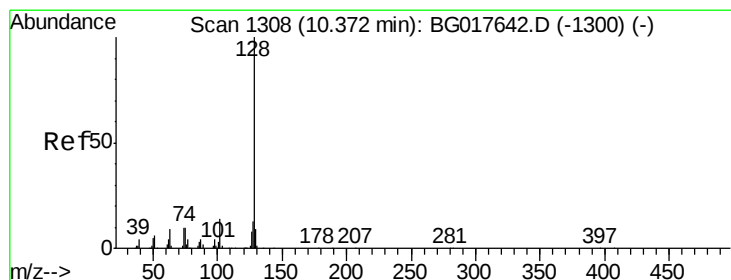
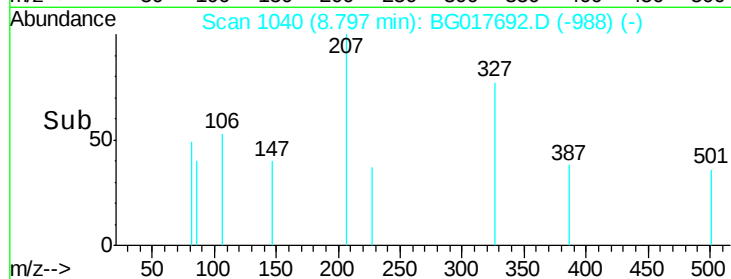
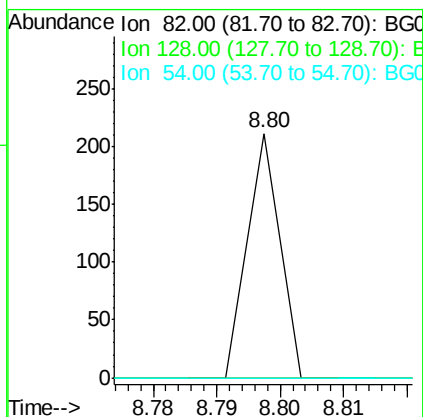
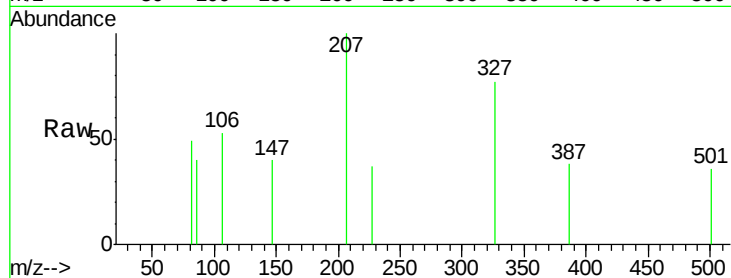




#23  
 Nitrobenzene-d5  
 Concen: 0.06 ng  
 RT: 8.80 min Scan# 1040  
 Delta R.T. 0.11 min  
 Lab File: BG017692.D  
 Acq: 15 Jun 2015 16:21

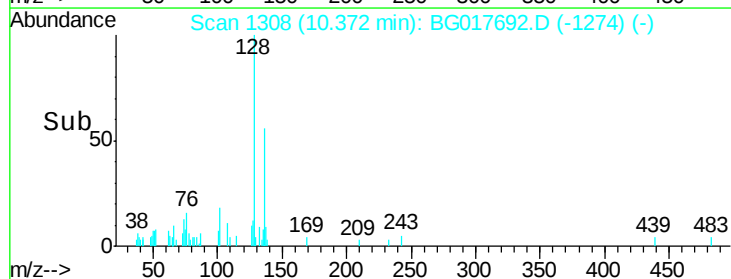
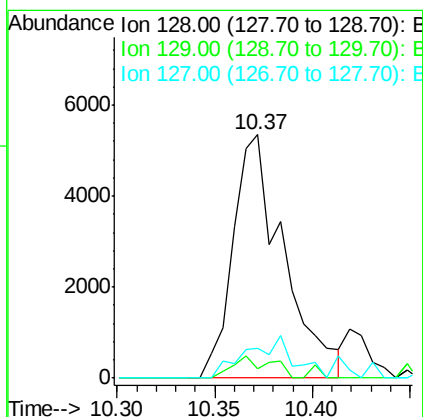
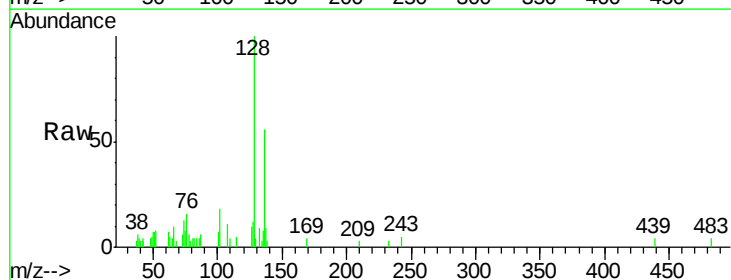
Instrument :  
 BNA\_G  
 ClientSampleID :  
 MW-16DL2

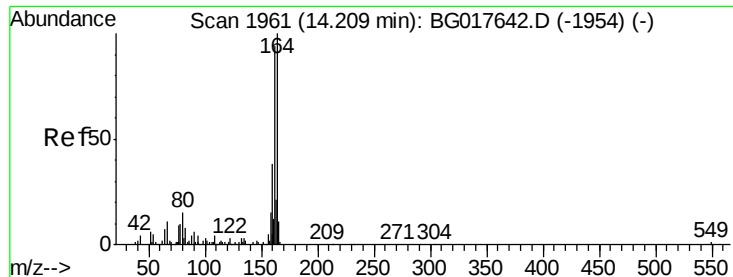
Tgt Ion: 82 Resp: 74  
 Ion Ratio Lower Upper  
 82 100  
 128 0.0 27.3 40.9#  
 54 0.0 37.0 55.4#



#31  
 Naphthalene  
 Concen: 3.25 ng  
 RT: 10.37 min Scan# 1308  
 Delta R.T. 0.00 min  
 Lab File: BG017692.D  
 Acq: 15 Jun 2015 16:21

Tgt Ion: 128 Resp: 9558  
 Ion Ratio Lower Upper  
 128 100  
 129 3.8 7.0 10.4#  
 127 12.5 10.2 15.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.21 min Scan# 1961

Delta R.T. 0.00 min

Lab File: BG017692.D

Acq: 15 Jun 2015 16:21

Instrument :

BNA\_G

ClientSampleId :

MW-16DL2

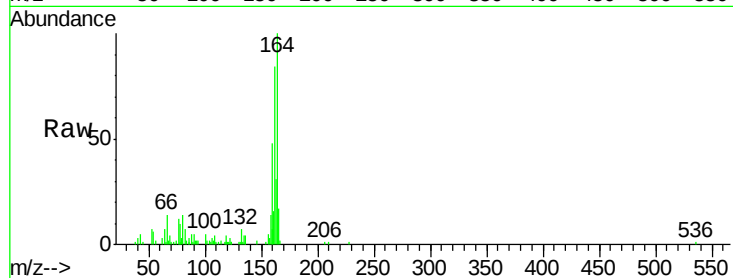
Tgt Ion:164 Resp: 45395

Ion Ratio Lower Upper

164 100

162 84.1 75.0 112.4

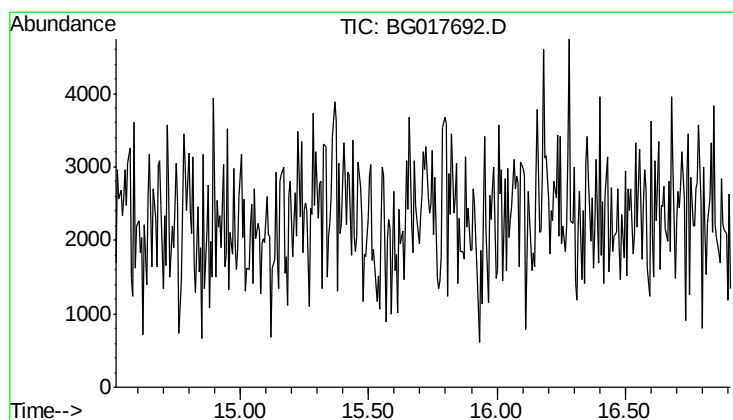
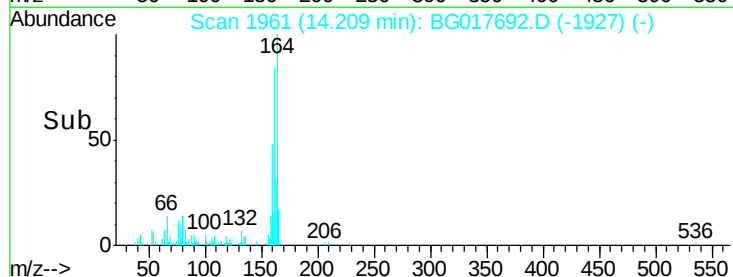
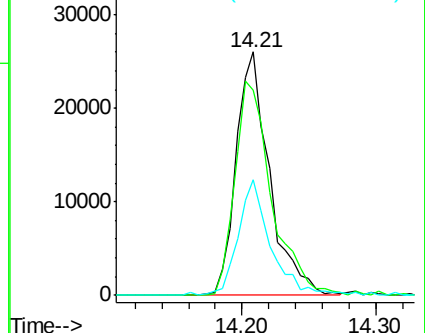
160 47.6 30.3 45.5#



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 0.00 ng

Expected RT: 15.71 min

Lab File: BG017692.D

Acq: 15 Jun 2015 16:21

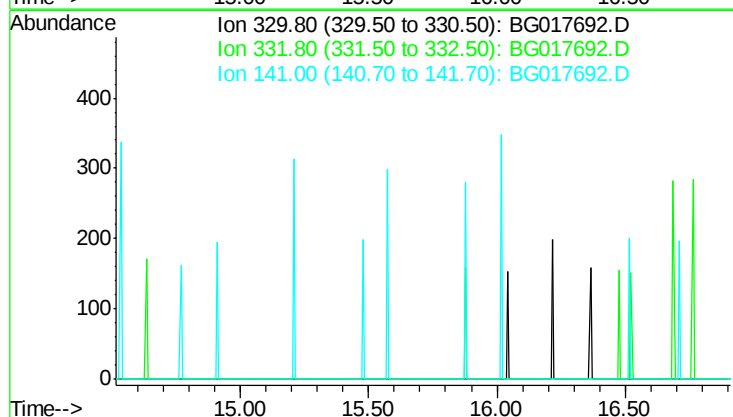
Tgt Ion: 330

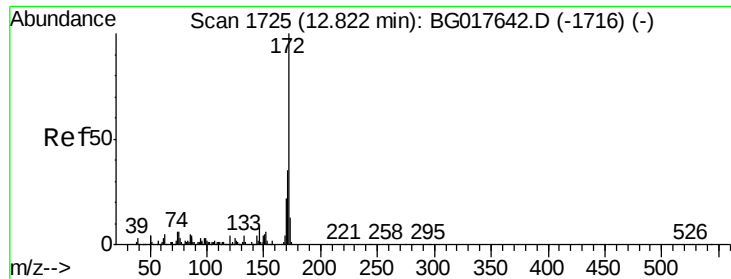
Sig Exp Ratio

330 100

332 95.7

141 43.2

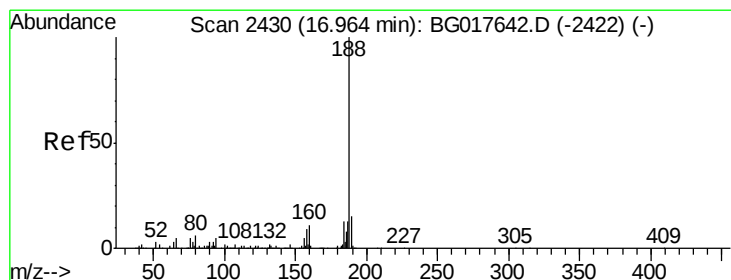
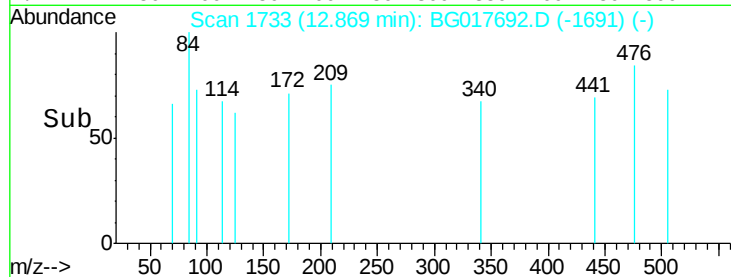
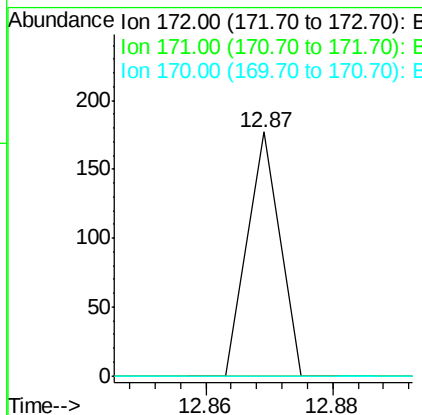
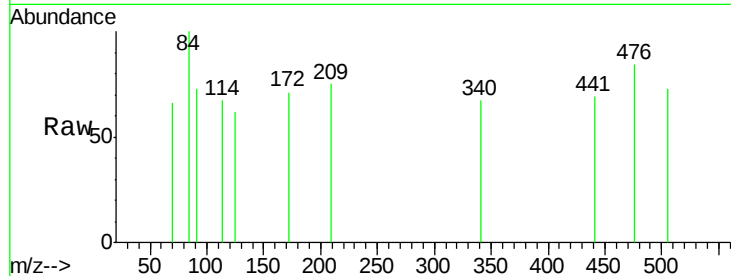




#44  
2-Fluorobiphenyl  
Concen: 0.02 ng  
RT: 12.87 min Scan# 1733  
Delta R.T. 0.05 min  
Lab File: BG017692.D  
Acq: 15 Jun 2015 16:21

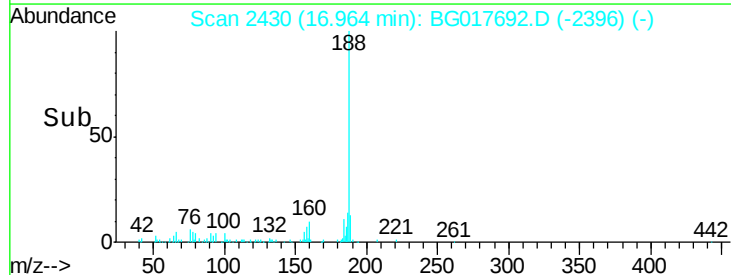
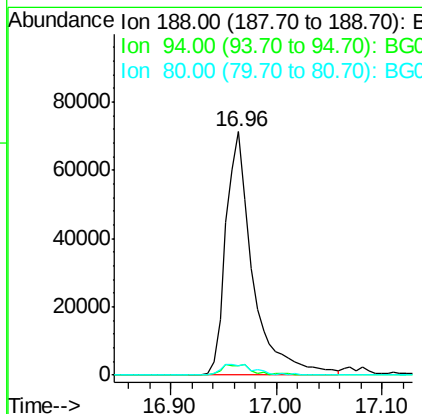
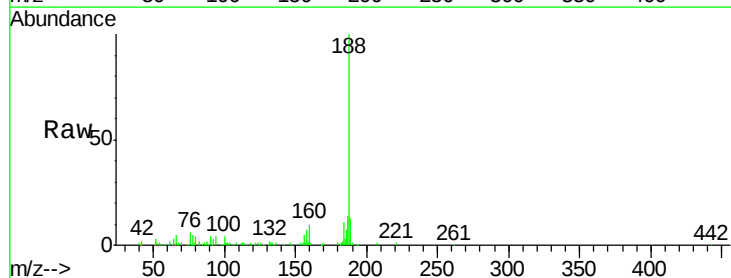
Instrument :  
BNA\_G  
ClientSampleId :  
MW-16DL2

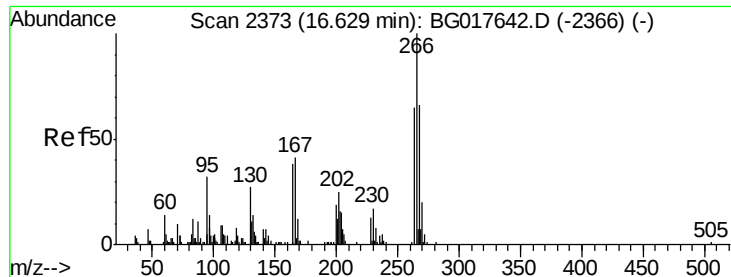
Tgt Ion:172 Resp: 62  
Ion Ratio Lower Upper  
172 100  
171 0.0 28.2 42.2#  
170 0.0 17.4 26.2#



#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 16.96 min Scan# 2430  
Delta R.T. 0.00 min  
Lab File: BG017692.D  
Acq: 15 Jun 2015 16:21

Tgt Ion:188 Resp: 125735  
Ion Ratio Lower Upper  
188 100  
94 4.0 3.9 5.9  
80 3.8 5.0 7.6#





#69

Pentachlorophenol

Concen: 6.28 ng

RT: 16.52 min Scan# 2355

Delta R.T. -0.11 min

Lab File: BG017692.D

Acq: 15 Jun 2015 16:21

Instrument :

BNA\_G

ClientSampleId :

MW-16DL2

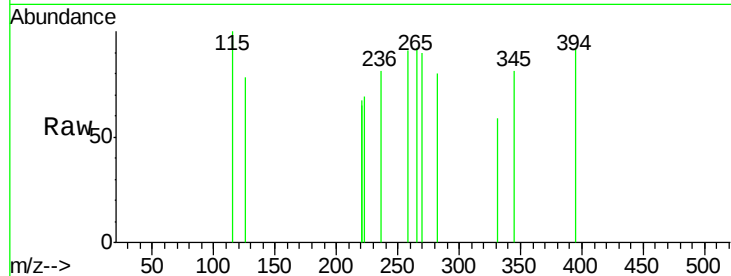
Tgt Ion:266 Resp: 84

Ion Ratio Lower Upper

266 100

268 0.0 52.7 79.1#

264 0.0 52.2 78.4#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E

16.52

250

200

150

100

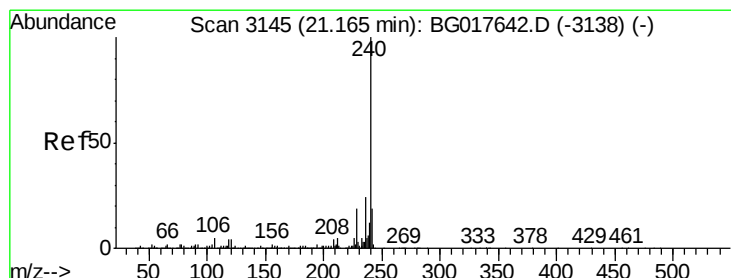
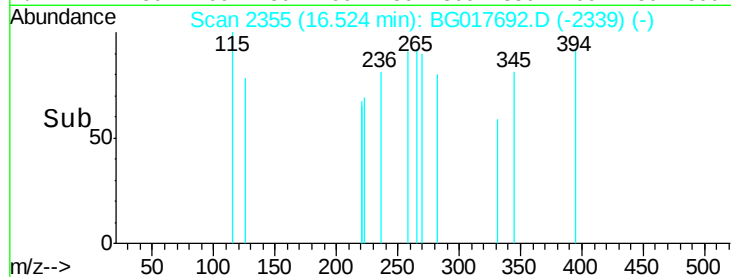
50

0

16.52

16.54

Time-->



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.17 min Scan# 3145

Delta R.T. 0.00 min

Lab File: BG017692.D

Acq: 15 Jun 2015 16:21

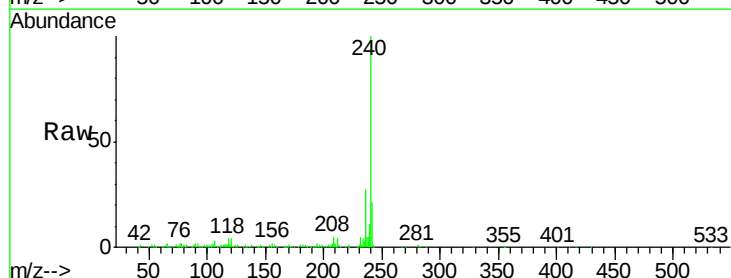
Tgt Ion:240 Resp: 188676

Ion Ratio Lower Upper

240 100

120 3.8 3.5 5.3

236 26.6 19.5 29.3



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

21.17

150000

100000

50000

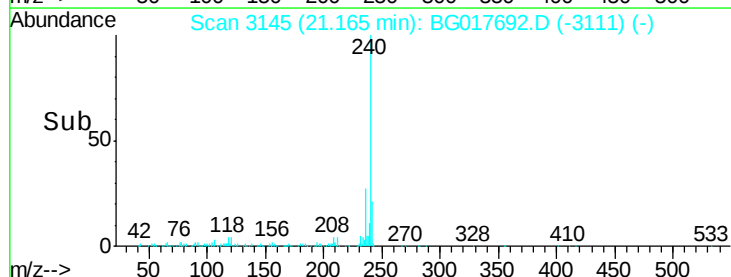
0

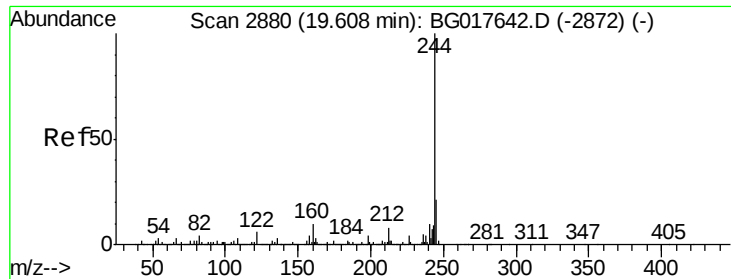
21.10

21.20

21.30

Time-->





#78

Terphenyl-d14

Concen: 0.04 ng

RT: 19.61 min Scan# 2881

Delta R.T. 0.01 min

Lab File: BG017692.D

Acq: 15 Jun 2015 16:21

Instrument :

BNA\_G

ClientSampled :

MW-16DL2

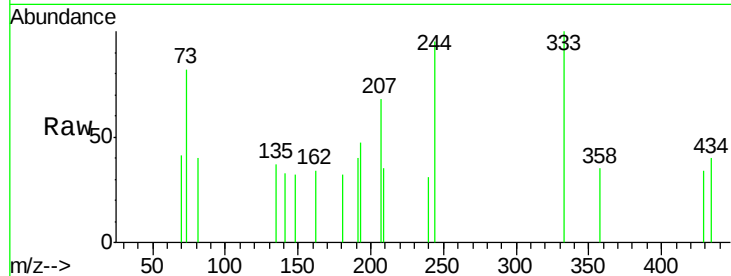
Tgt Ion:244 Resp: 324

Ion Ratio Lower Upper

244 100

212 0.0 6.3 9.5#

122 0.0 4.6 6.8#



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

19.61

400

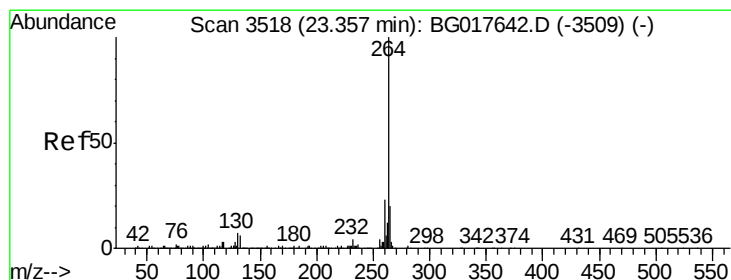
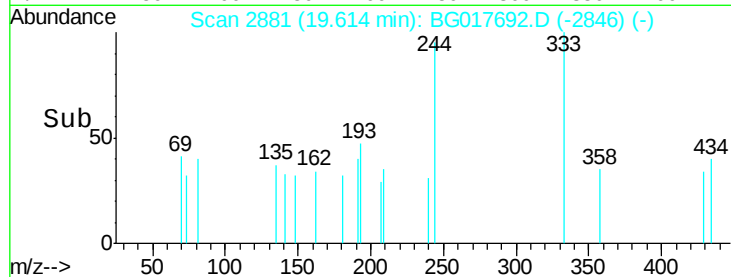
300

200

100

0

Time-->



#86

Perylene-d12

Concen: 20.00 ng

RT: 23.36 min Scan# 3519

Delta R.T. 0.01 min

Lab File: BG017692.D

Acq: 15 Jun 2015 16:21

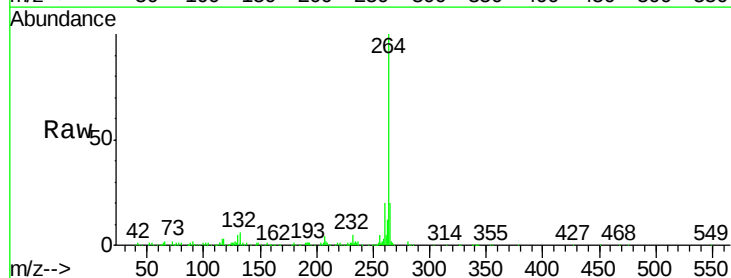
Tgt Ion:264 Resp: 197669

Ion Ratio Lower Upper

264 100

260 20.1 18.3 27.5

265 20.5 16.2 24.2



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

23.36

100000

50000

0

Time-->

