

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091418\  
 Data File : BG036721.D  
 Acq On : 15 Sep 2018 1:14  
 Operator : JU/SJ  
 Sample : J4892-07  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 15 02:12:47 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 31 13:03:20 2018  
 Response via : Initial Calibration

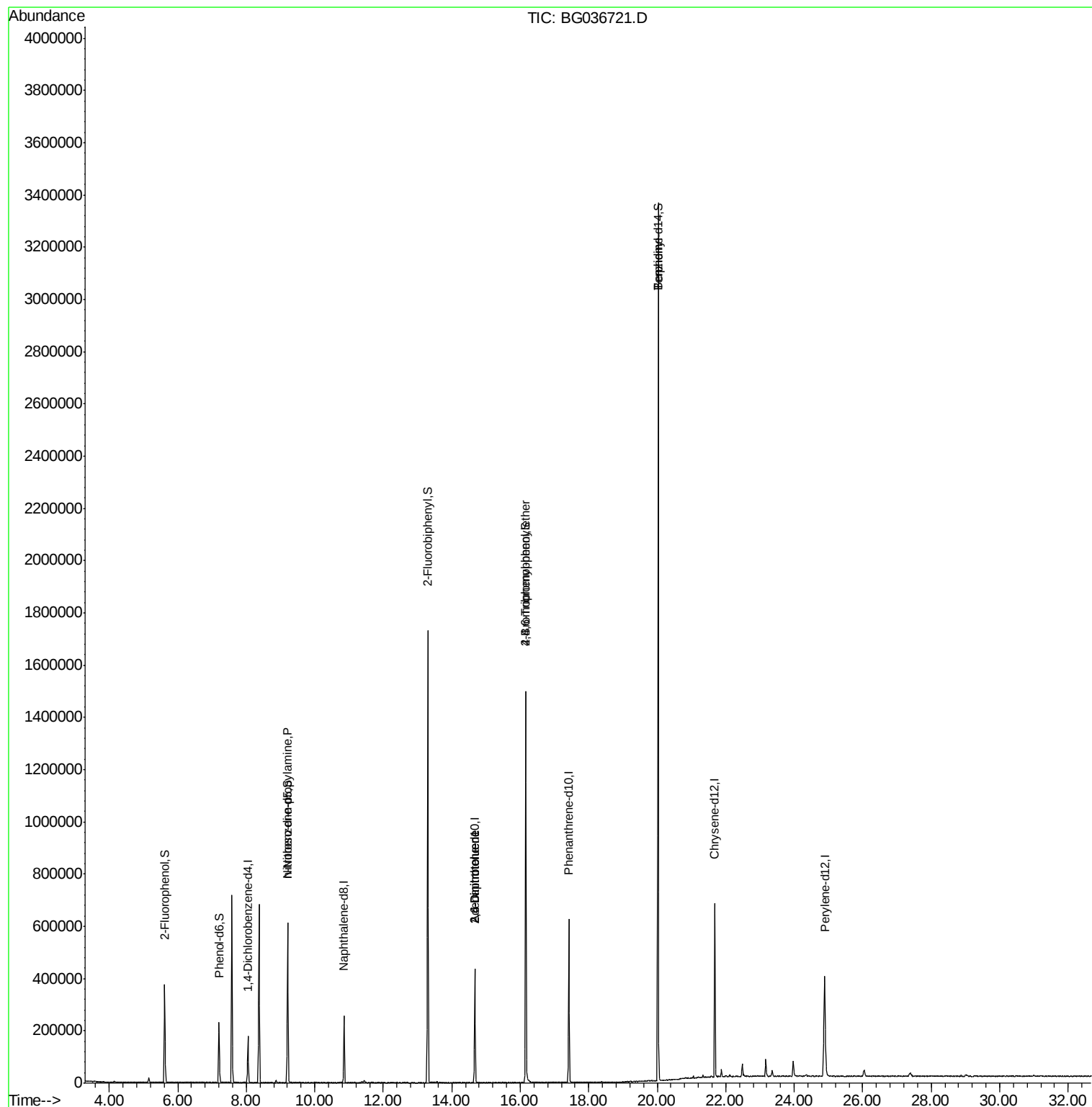
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 51995    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.86 | 136  | 218645   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 14.68 | 164  | 152376   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 17.42 | 188  | 405310   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 21.68 | 240  | 415067   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 24.89 | 264  | 407432   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.62  | 112  | 158957   | 48.50  | ng    | 0.00     |
| 7) Phenol-d6                   | 7.20  | 99   | 137338   | 29.26  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 9.21  | 82   | 367039   | 91.08  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 16.16 | 330  | 282550   | 155.40 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 13.30 | 172  | 889516   | 83.35  | ng    | -0.01    |
| 78) Terphenyl-d14              | 20.03 | 244  | 1587522  | 89.40  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 49946    | 14.240 | ng    | # 68     |
| 50) 2,6-Dinitrotoluene         | 14.68 | 165  | 18512    | 7.230  | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 14.68 | 165  | 18512    | 5.548  | ng    | # 18     |
| 66) 4-Bromophenyl-phenylether  | 16.16 | 248  | 20148    | 4.246  | ng    | # 1      |
| 76) Benzidine                  | 20.03 | 184  | 27005    | 2.039  | ng    | 96       |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG091418\  
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Acq On : 15 Sep 2018 1:14  
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Sample : J4892-07  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Sep 15 02:12:47 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 31 13:03:20 2018  
Response via : Initial Calibration



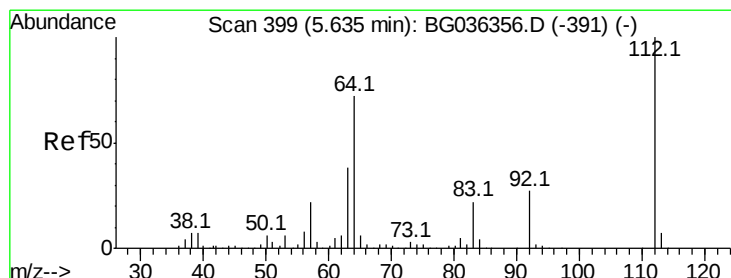
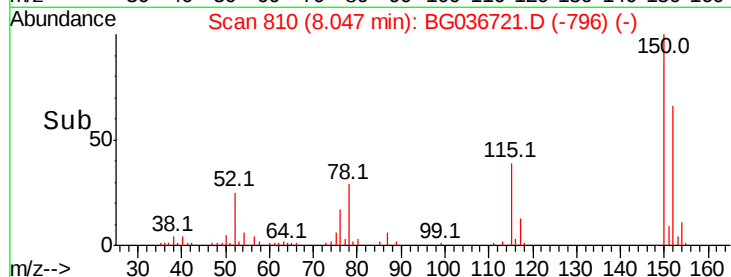
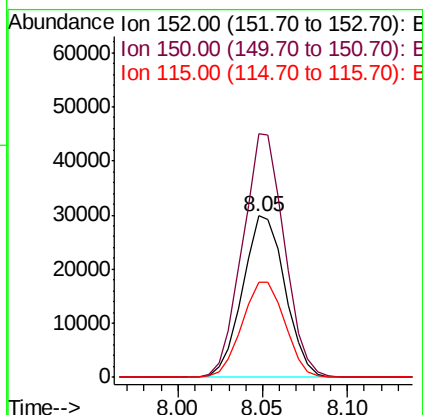
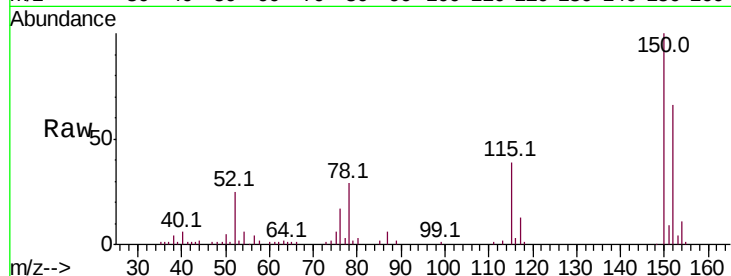


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 810  
Delta R.T. -0.02 min  
Lab File: BG036721.D  
Acq: 15 Sep 2018 1:14

Instrument :  
BNA\_G  
ClientSampleId :

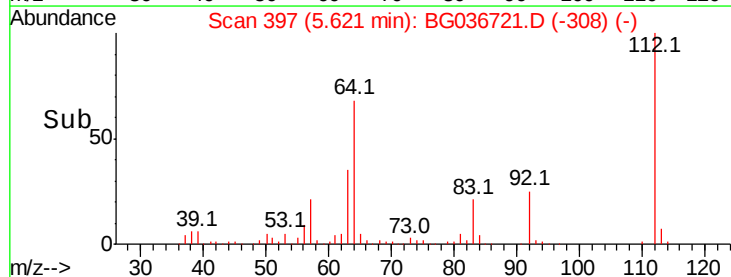
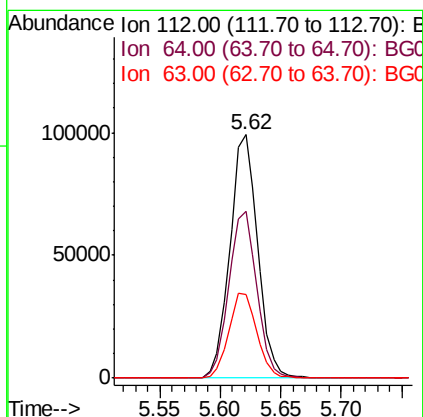
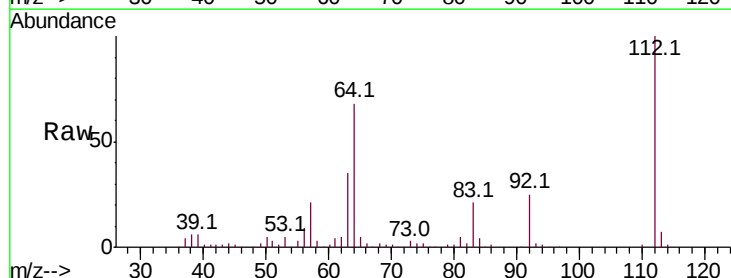
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 150.9 | 119.5 | 179.3 |
| 115     | 58.6  | 44.5  | 66.7  |

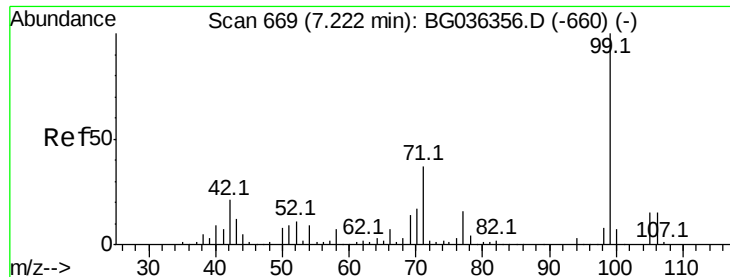


#5

2-Fluorophenol  
Concen: 48.496 ng  
RT: 5.62 min Scan# 397  
Delta R.T. -0.00 min  
Lab File: BG036721.D  
Acq: 15 Sep 2018 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 68.4  | 57.2  | 85.8  |
| 63      | 34.6  | 30.8  | 46.2  |





#7

Phenol-d6

Concen: 29.265 ng

RT: 7.20 min Scan# 666

Delta R.T. -0.02 min

Lab File: BG036721.D

Acq: 15 Sep 2018 1:14

Instrument :

BNA\_G

ClientSampled :

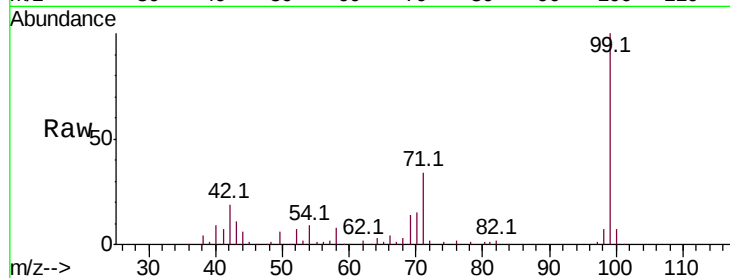
Tot Ion: 99 Resp: 137338

Ion Ratio Lower Upper

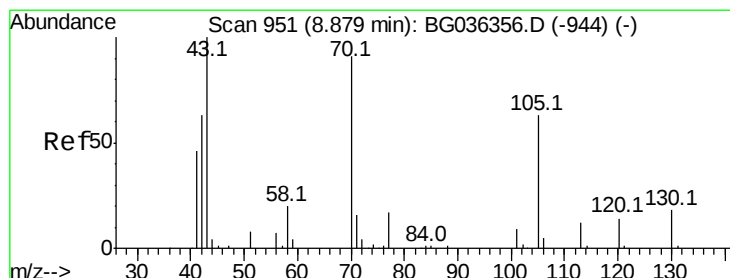
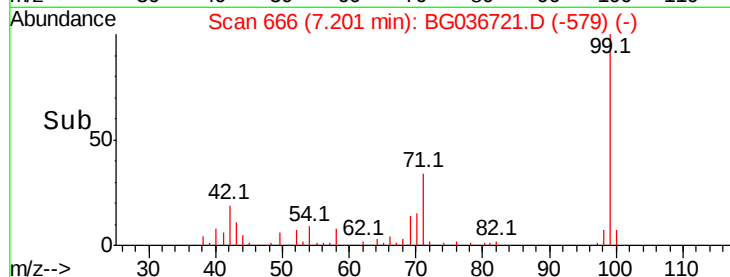
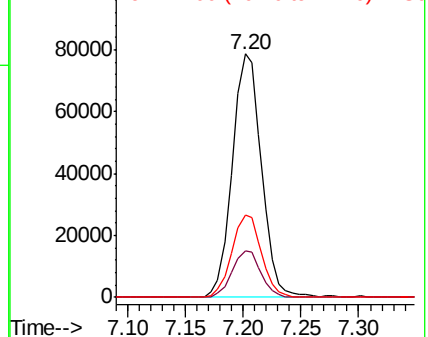
99 100

42 19.3 16.5 24.7

71 33.7 29.4 44.2



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



#19

n-Nitroso-di-n-propylamine

Concen: 14.240 ng

RT: 9.21 min Scan# 1008

Delta R.T. 0.35 min

Lab File: BG036721.D

Acq: 15 Sep 2018 1:14

Tgt Ion: 70 Resp: 49946

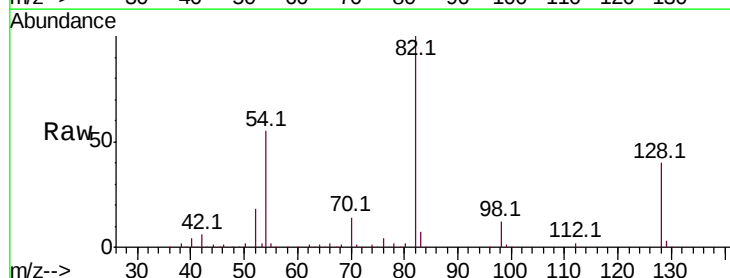
Ion Ratio Lower Upper

70 100

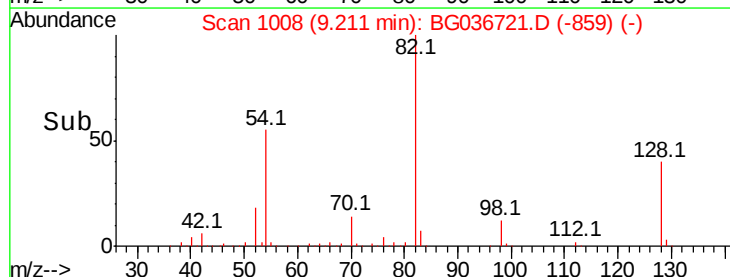
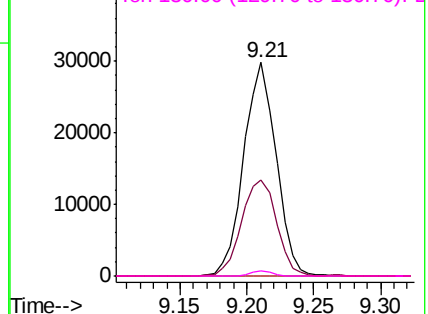
42 45.1 56.2 84.4#

101 0.0 7.8 11.6#

130 2.3 16.2 24.2#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

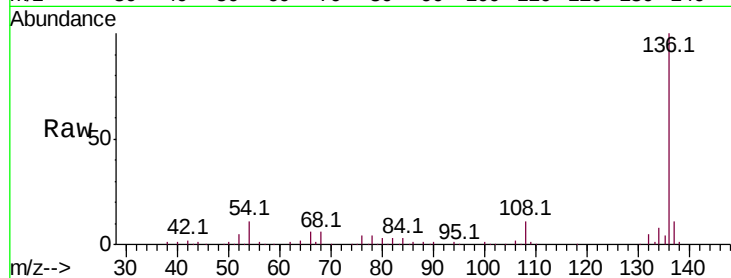




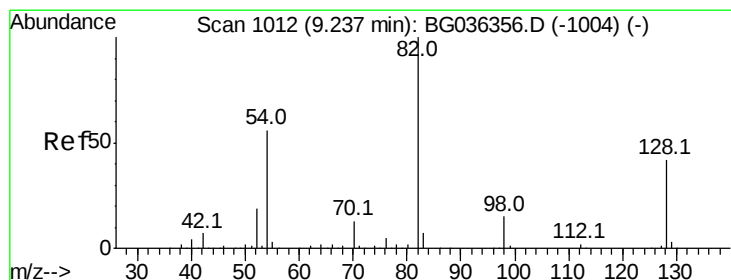
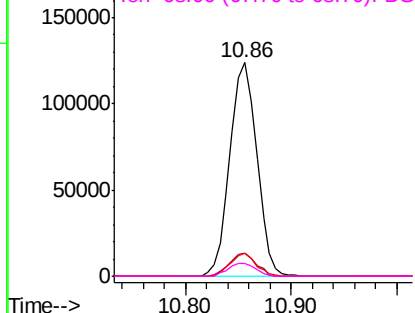
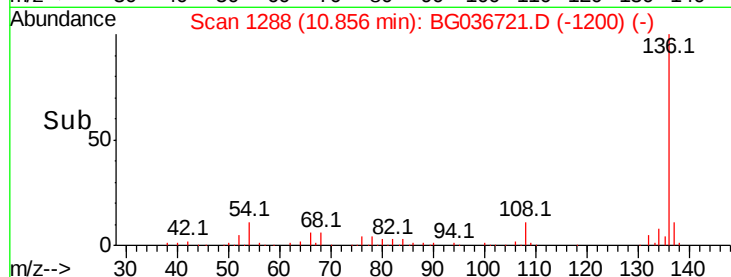
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1288  
Delta R.T. -0.01 min  
Lab File: BG036721.D  
Acq: 15 Sep 2018 1:14

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 218645 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.8   | 13.2   |
| 54       | 10.6  | 9.2   | 13.8   |
| 68       | 5.9   | 5.8   | 8.6    |

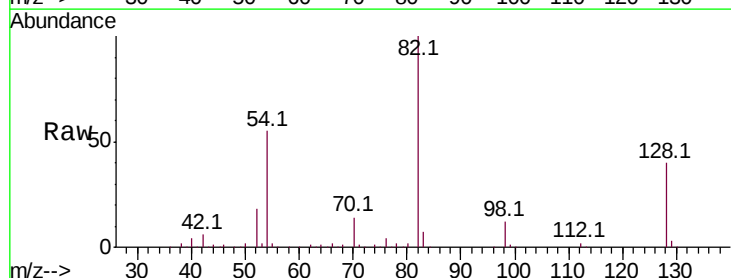


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

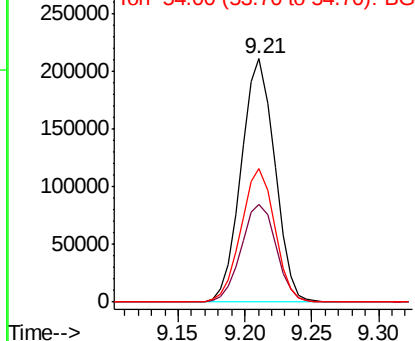
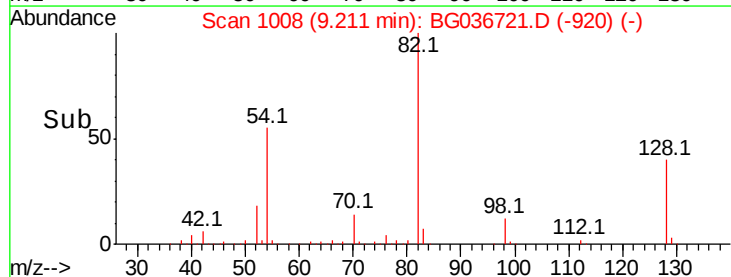


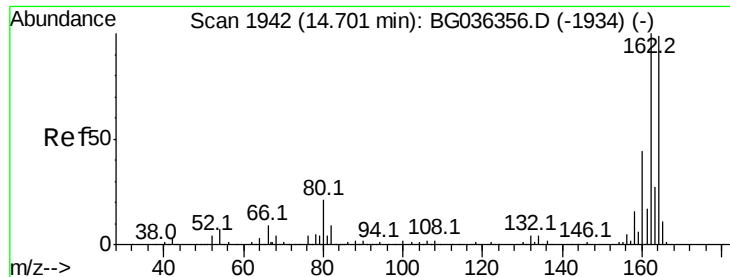
#23  
Nitrobenzene-d5  
Concen: 91.081 ng  
RT: 9.21 min Scan# 1008  
Delta R.T. -0.01 min  
Lab File: BG036721.D  
Acq: 15 Sep 2018 1:14

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 367039 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 39.9  | 33.3  | 49.9   |
| 54       | 54.8  | 45.1  | 67.7   |



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





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1938

Delta R.T. -0.01 min

Lab File: BG036721.D

Acq: 15 Sep 2018 1:14

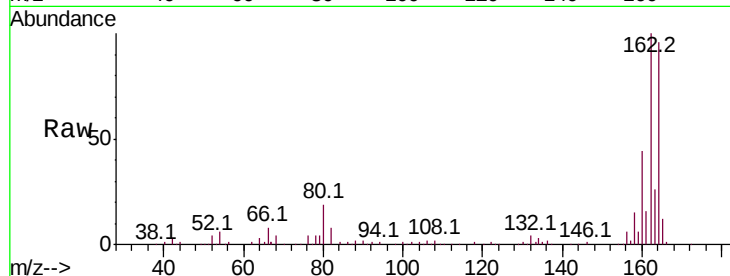
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:164 Resp: 152376

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 104.4 | 80.7  | 121.1 |
| 160 | 46.2  | 35.3  | 52.9  |

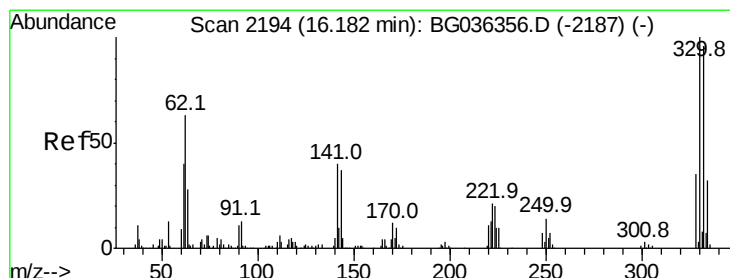
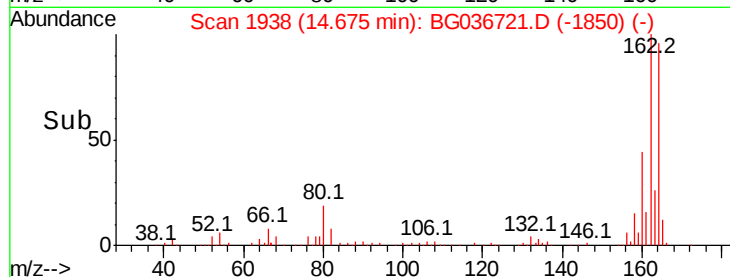
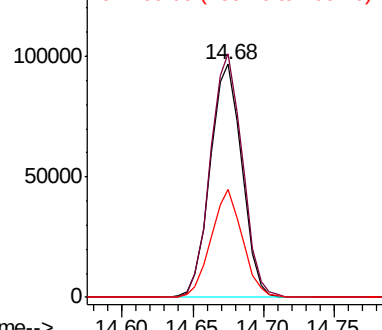


Abundance

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: 155.402 ng

RT: 16.16 min Scan# 2191

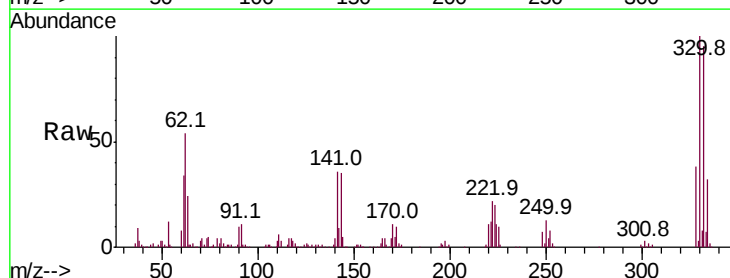
Delta R.T. -0.01 min

Lab File: BG036721.D

Acq: 15 Sep 2018 1:14

Tgt Ion:330 Resp: 282550

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 96.1  | 75.4  | 113.2 |
| 141 | 36.2  | 30.7  | 46.1  |

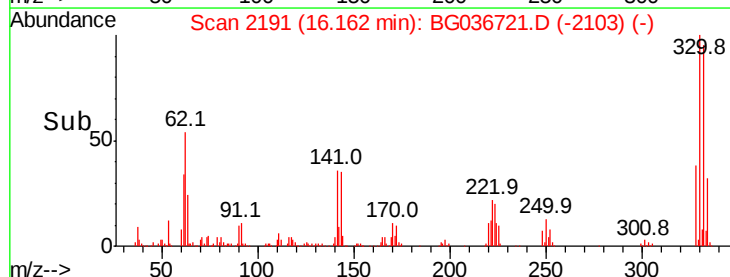
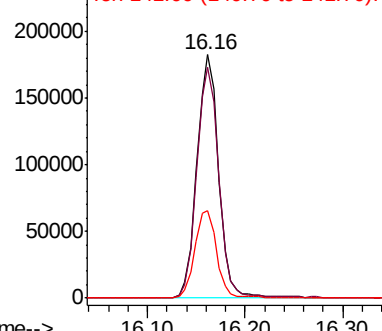


Abundance

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: 83.351 ng

RT: 13.30 min Scan# 1704

Delta R.T. -0.01 min

Lab File: BG036721.D

Acq: 15 Sep 2018 1:14

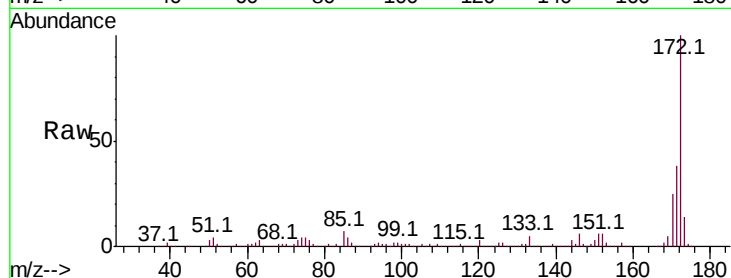
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:172 Resp: 889516

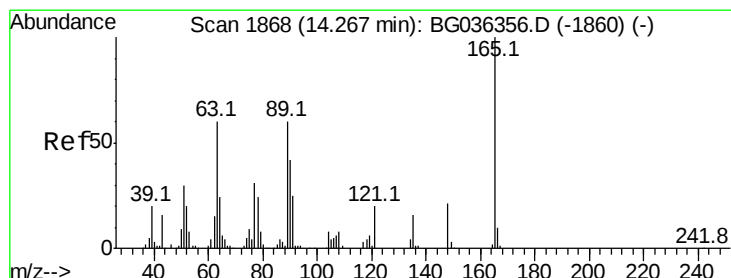
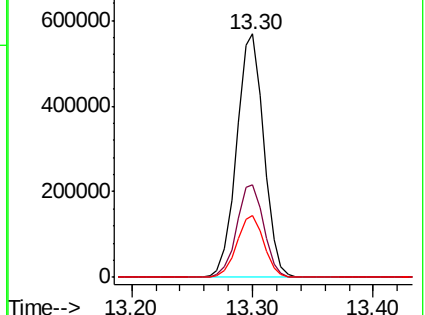
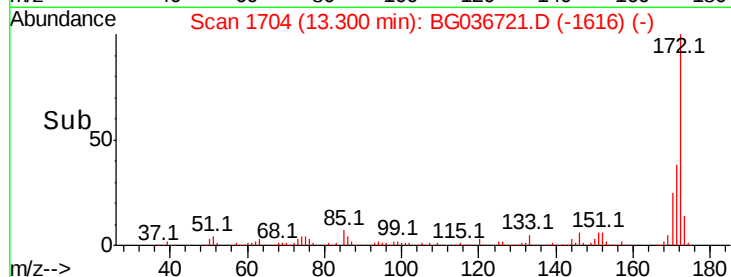
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 37.8  | 31.3  | 46.9  |
| 170 | 25.3  | 21.0  | 31.6  |



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



#50

2,6-Dinitrotoluene

Concen: 7.230 ng

RT: 14.68 min Scan# 1938

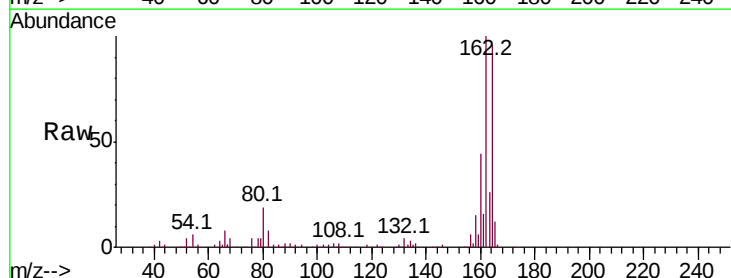
Delta R.T. 0.42 min

Lab File: BG036721.D

Acq: 15 Sep 2018 1:14

Tgt Ion:165 Resp: 18512

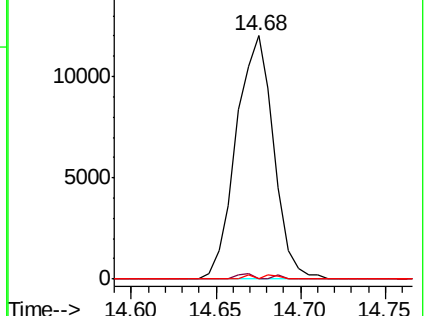
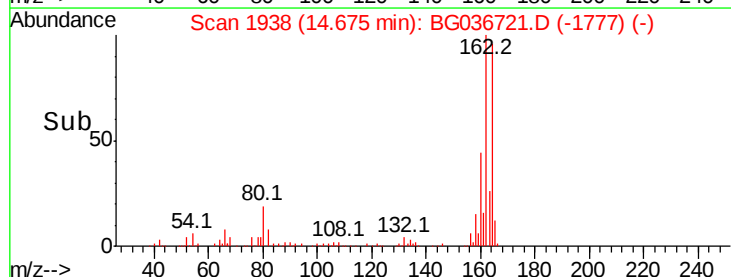
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 0.0   | 50.1  | 75.1# |
| 89  | 0.0   | 47.8  | 71.6# |

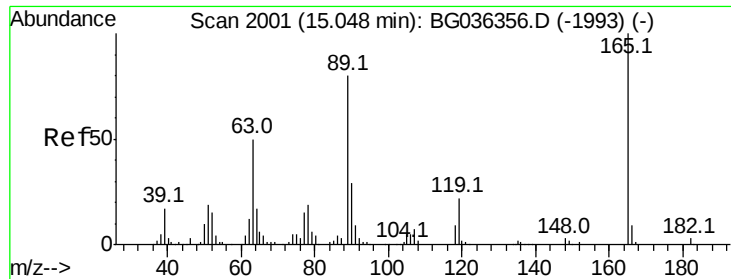


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

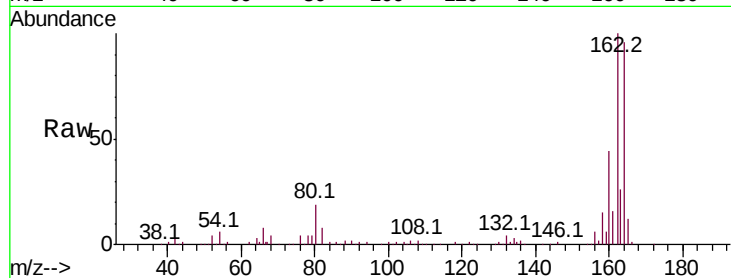




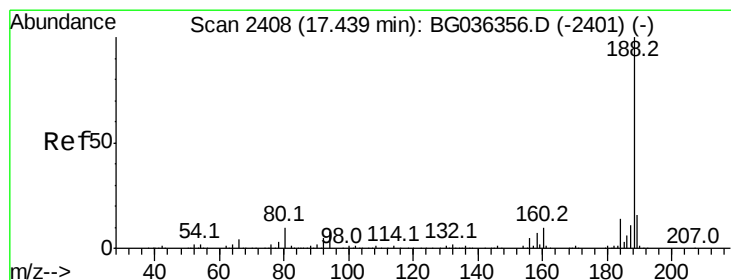
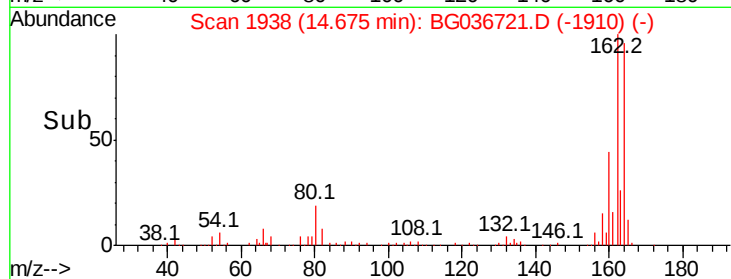
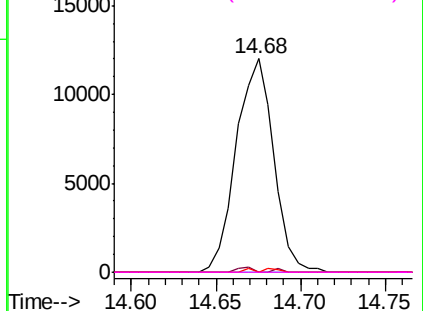
#56  
2,4-Dinitrotoluene  
Concen: 5.548 ng  
RT: 14.68 min Scan# 1938  
Delta R.T. -0.36 min  
Lab File: BG036721.D  
Acq: 15 Sep 2018 1:14

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 40.1  | 60.1# |
| 89      | 0.0   | 63.7  | 95.5# |
| 182     | 0.0   | 2.5   | 3.7#  |

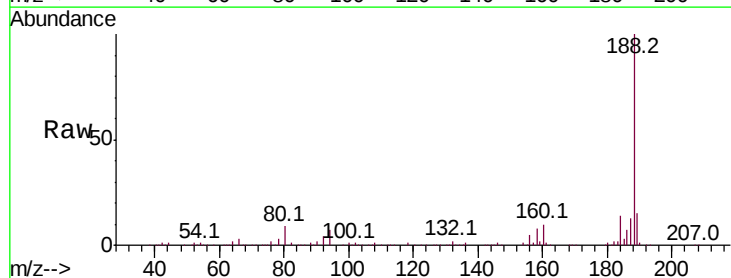


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC  
Ion 182.00 (181.70 to 182.70): E

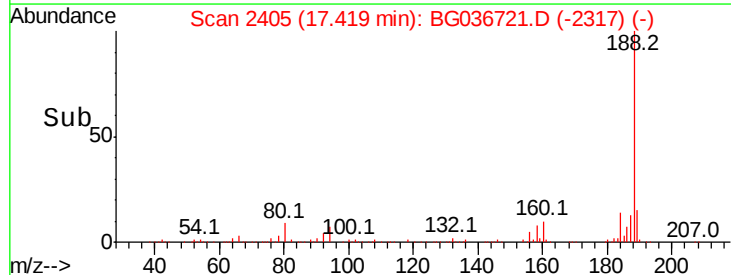
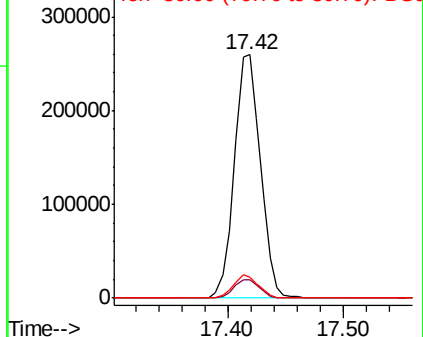


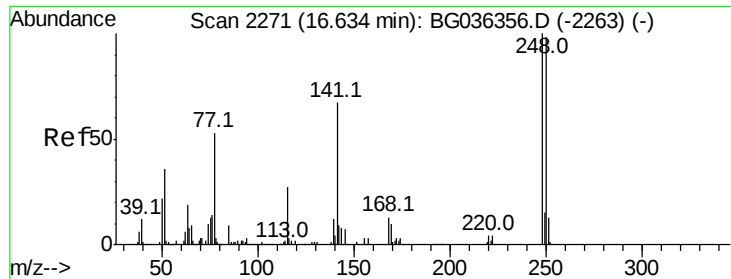
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.42 min Scan# 2405  
Delta R.T. -0.01 min  
Lab File: BG036721.D  
Acq: 15 Sep 2018 1:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 7.4   | 6.7   | 10.1  |
| 80      | 8.8   | 8.1   | 12.1  |



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

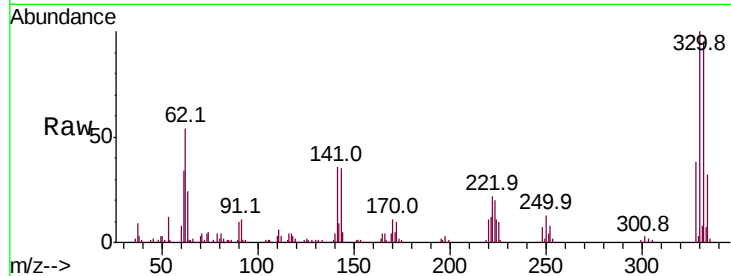




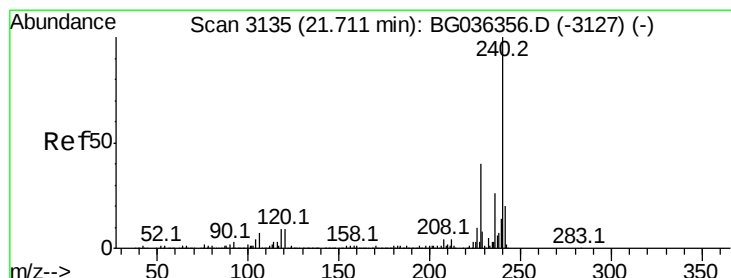
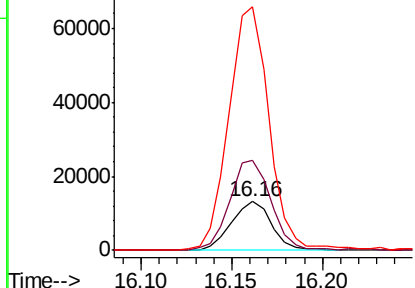
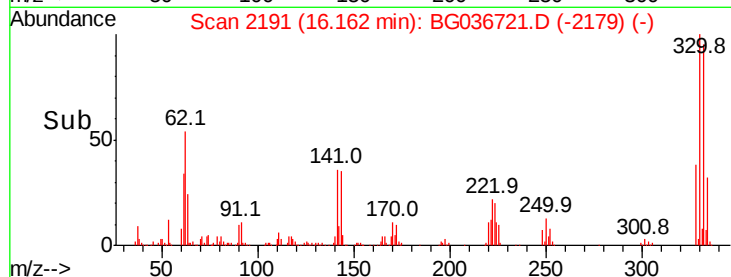
#66  
4-Bromophenyl-phenylether  
Concen: 4.246 ng  
RT: 16.16 min Scan# 2191  
Delta R.T. -0.46 min  
Lab File: BG036721.D  
Acq: 15 Sep 2018 1:14

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 20148  
Ion Ratio Lower Upper  
248 100  
250 185.2 78.1 117.1#  
141 499.4 53.7 80.5#

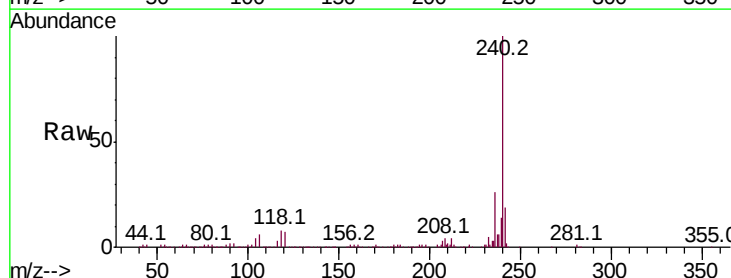


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

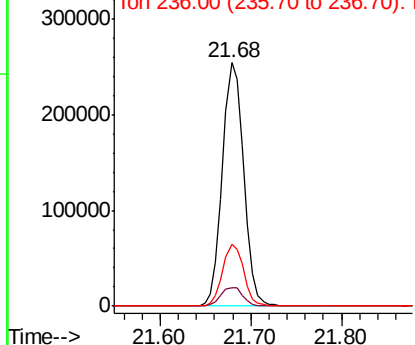
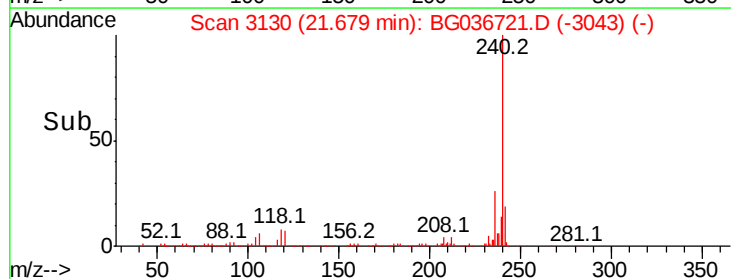


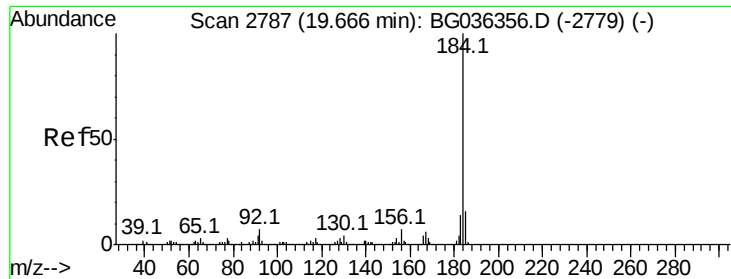
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.68 min Scan# 3130  
Delta R.T. -0.02 min  
Lab File: BG036721.D  
Acq: 15 Sep 2018 1:14

Tgt Ion:240 Resp: 415067  
Ion Ratio Lower Upper  
240 100  
120 7.5 6.9 10.3  
236 25.6 21.2 31.8



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

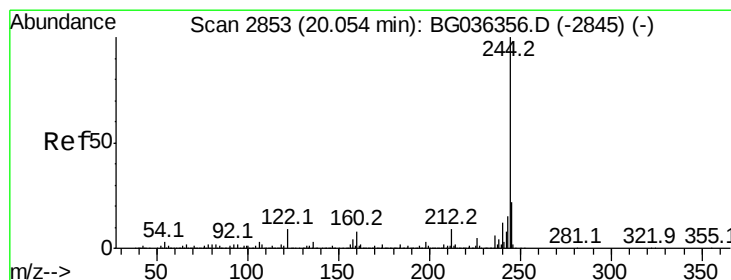
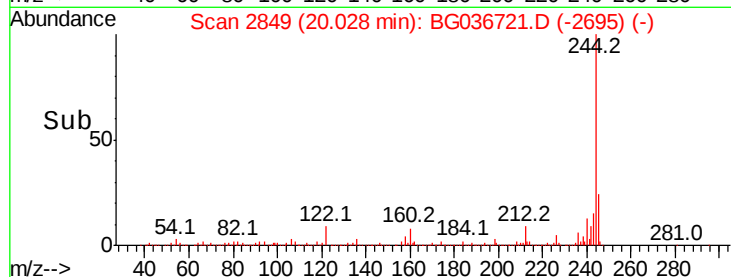
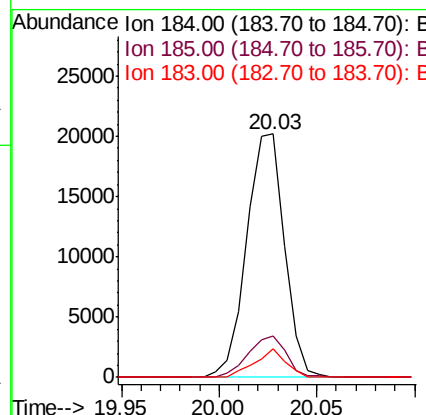
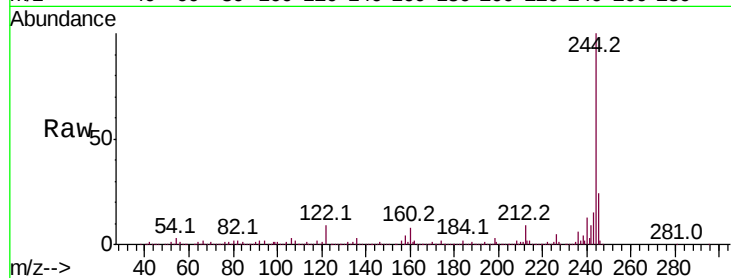




#76  
Benzidine  
Concen: 2.039 ng  
RT: 20.03 min Scan# 2849  
Delta R.T. 0.38 min  
Lab File: BG036721.D  
Acq: 15 Sep 2018 1:14

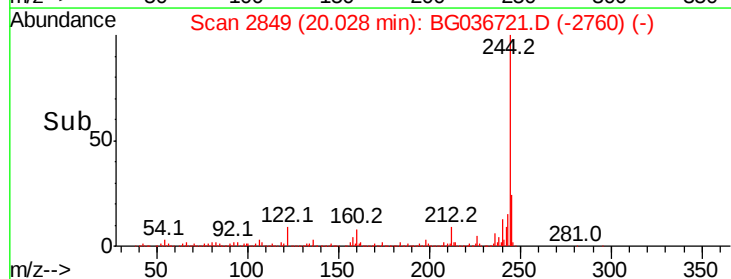
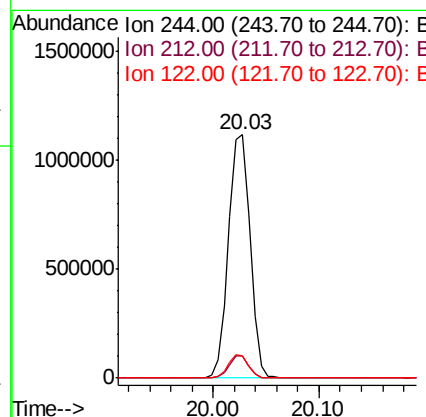
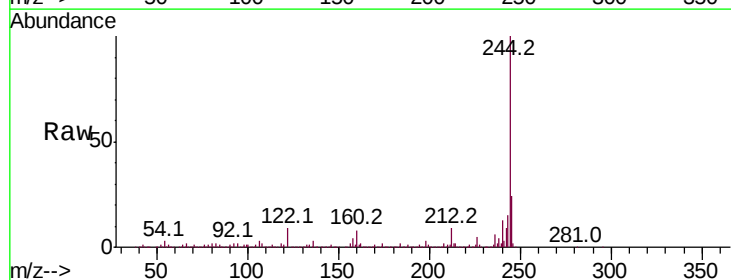
Instrument :  
BNA\_G  
ClientSampleId :

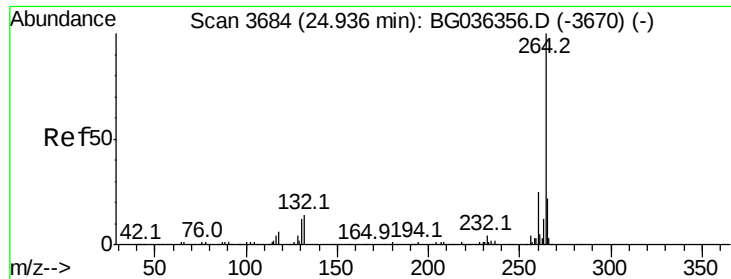
Tot Ion:184 Resp: 27005  
Ion Ratio Lower Upper  
184 100  
185 16.8 12.6 18.8  
183 11.6 10.9 16.3



#78  
Terphenyl-d14  
Concen: 89.397 ng  
RT: 20.03 min Scan# 2849  
Delta R.T. -0.00 min  
Lab File: BG036721.D  
Acq: 15 Sep 2018 1:14

Tgt Ion:244 Resp: 1587522  
Ion Ratio Lower Upper  
244 100  
212 9.1 7.0 10.6  
122 8.9 7.1 10.7

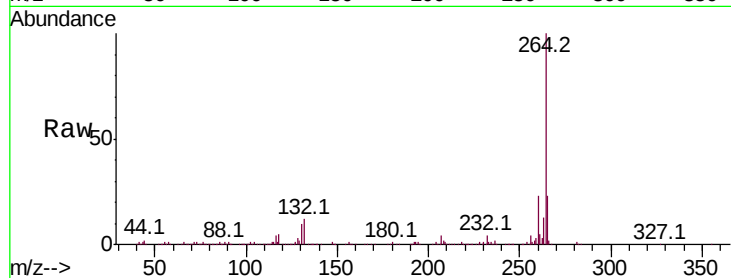




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.89 min Scan# 3676  
Delta R.T. -0.02 min  
Lab File: BG036721.D  
Acq: 15 Sep 2018 1:14

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 19.6  | 29.4  |
| 265     | 22.5  | 17.4  | 26.0  |



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

