

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG092218\  
 Data File : BG036914.D  
 Acq On : 23 Sep 2018 5:15  
 Operator : JU/SJ  
 Sample : PB113101BL  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 24 04:46:08 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 20 20:07:11 2018  
 Response via : Initial Calibration

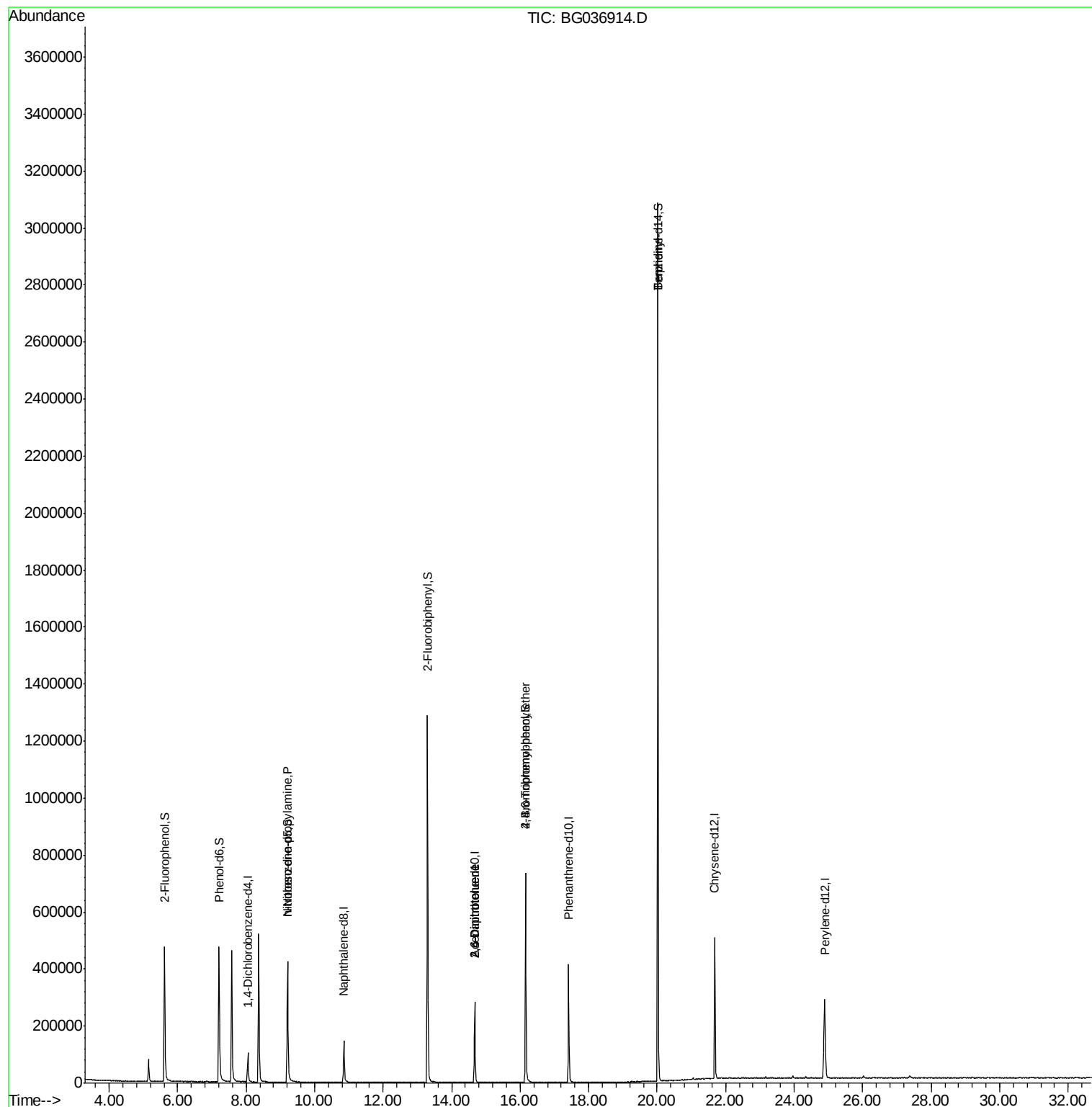
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 35282    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.85 | 136  | 151376   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.67 | 164  | 103592   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.41 | 188  | 281543   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.68 | 240  | 313893   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 24.89 | 264  | 307616   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.62  | 112  | 224162   | 121.85 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.20  | 99   | 318401   | 111.86 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.21  | 82   | 302518   | 107.02 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.16 | 330  | 140182   | 113.10 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.30 | 172  | 739182   | 106.28 | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.02 | 244  | 1433843  | 120.11 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 40034    | 16.907 | ng    | # 72     |
| 50) 2,6-Dinitrotoluene         | 14.67 | 165  | 13305    | 7.313  | ng    | # 20     |
| 56) 2,4-Dinitrotoluene         | 14.67 | 165  | 13305    | 5.241  | ng    | # 18     |
| 66) 4-Bromophenyl-phenylether  | 16.16 | 248  | 9219     | 2.879  | ng    | # 1      |
| 76) Benzidine                  | 20.02 | 184  | 25936    | 2.733  | ng    | # 95     |

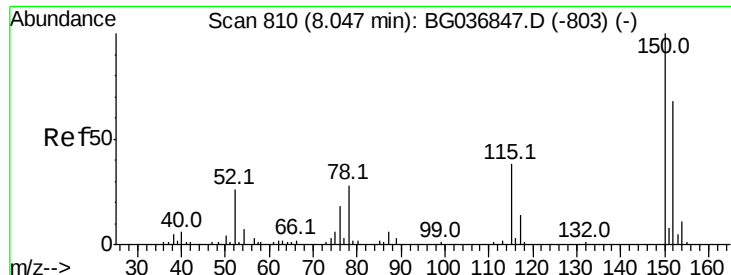
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : PB113101BL  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Sep 24 04:46:08 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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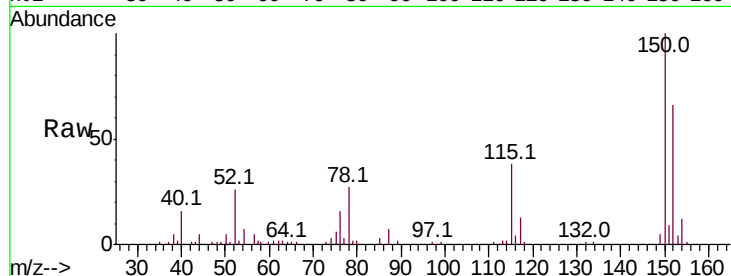


#1

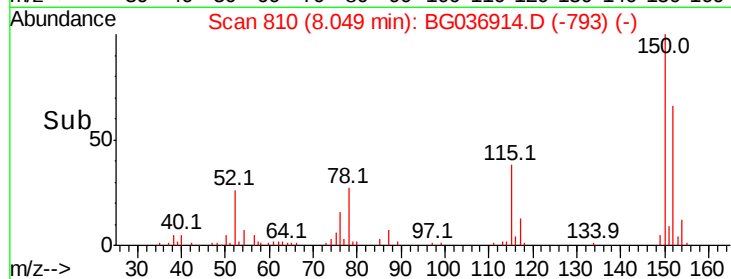
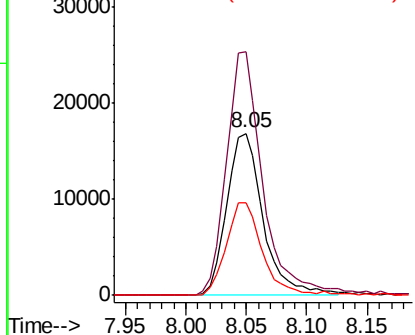
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 810  
Delta R.T. 0.00 min  
Lab File: BG036914.D  
Acq: 23 Sep 2018 5:15

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 150.6 | 119.5 | 179.3 |
| 115     | 57.4  | 44.5  | 66.7  |



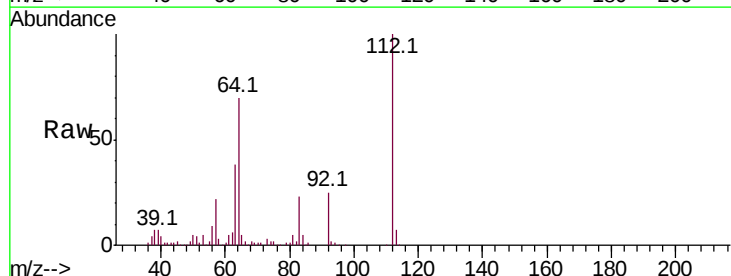
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



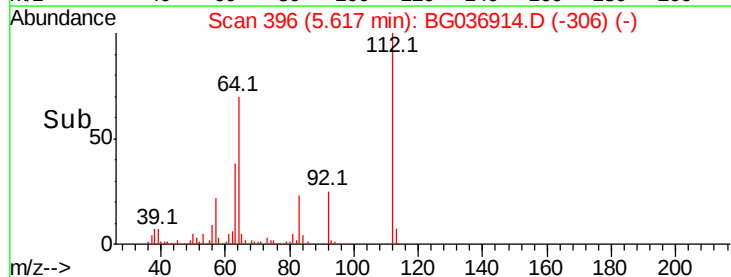
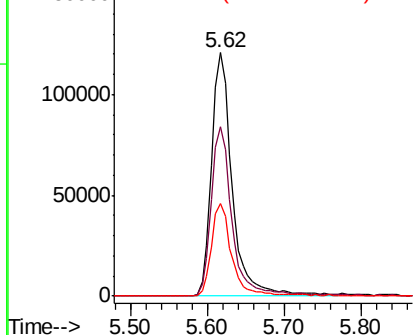
#5

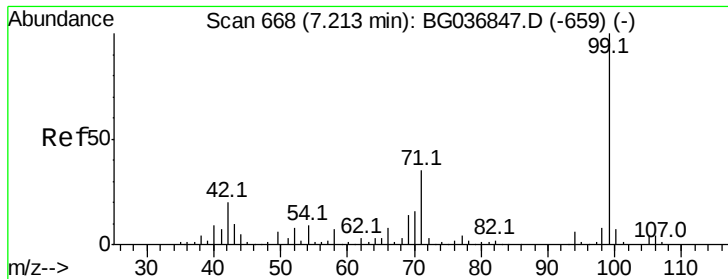
2-Fluorophenol  
Concen: 121.845 ng  
RT: 5.62 min Scan# 396  
Delta R.T. -0.00 min  
Lab File: BG036914.D  
Acq: 23 Sep 2018 5:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 69.8  | 57.2  | 85.8  |
| 63      | 37.9  | 30.8  | 46.2  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BG  
Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 111.862 ng

RT: 7.20 min Scan# 666

Delta R.T. -0.01 min

Lab File: BG036914.D

Acq: 23 Sep 2018 5:15

Instrument :

BNA\_G

ClientSampleId :

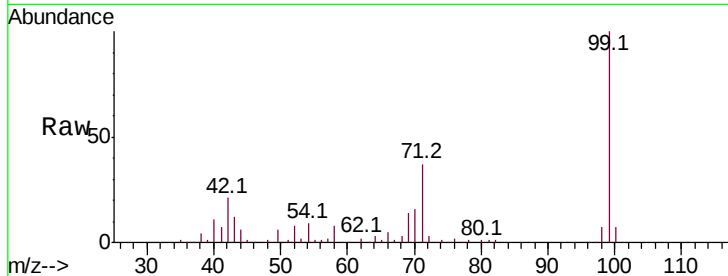
Tot Ion: 99 Resp: 318401

Ion Ratio Lower Upper

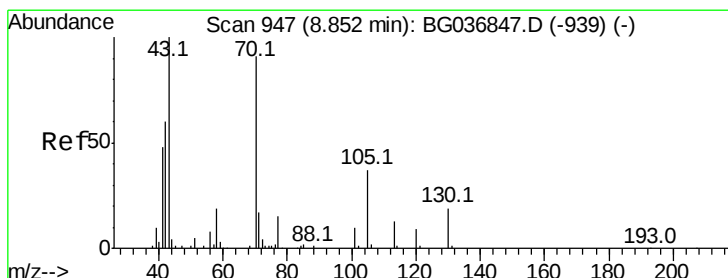
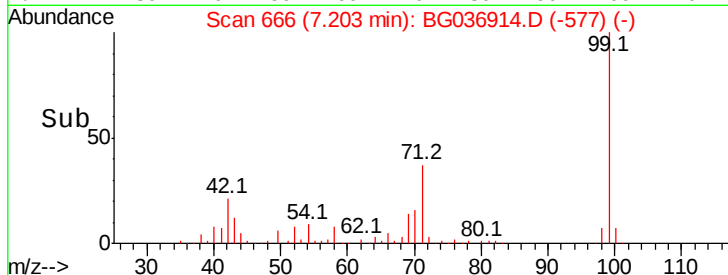
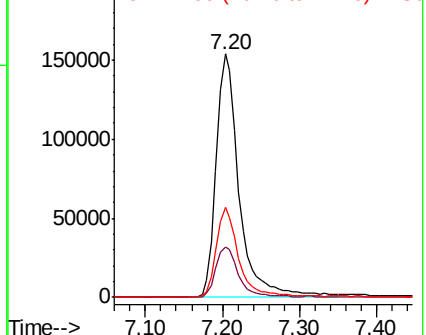
99 100

42 20.8 16.5 24.7

71 36.9 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: 16.907 ng

RT: 9.21 min Scan# 1007

Delta R.T. 0.36 min

Lab File: BG036914.D

Acq: 23 Sep 2018 5:15

Tgt Ion: 70 Resp: 40034

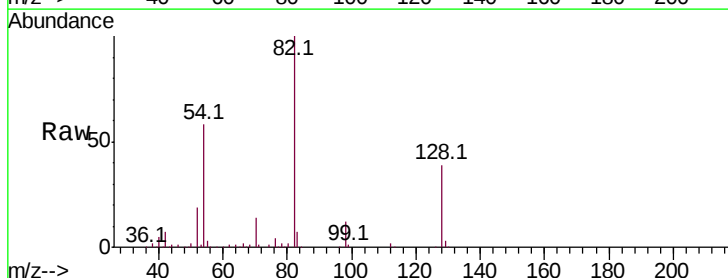
Ion Ratio Lower Upper

70 100

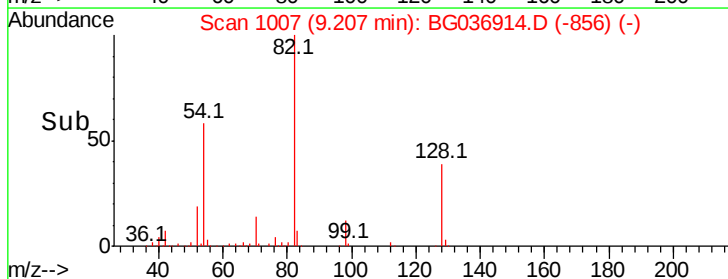
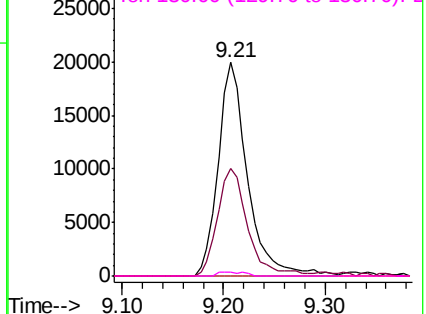
42 50.4 56.2 84.4#

101 0.0 7.8 11.6#

130 1.7 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

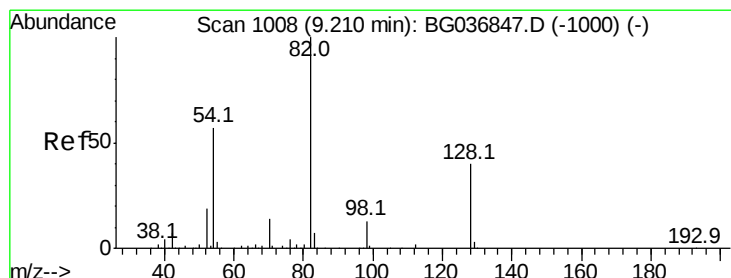
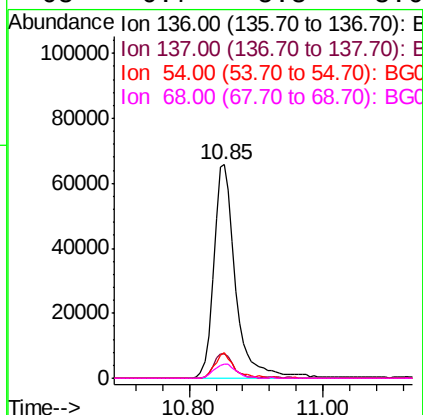
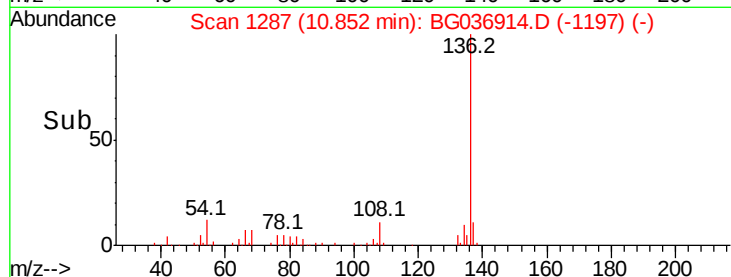
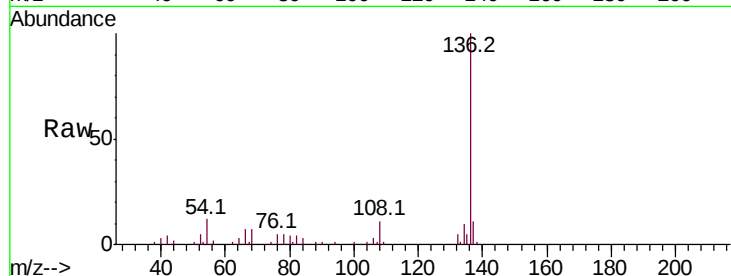




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.85 min Scan# 1287  
Delta R.T. -0.00 min  
Lab File: BG036914.D  
Acq: 23 Sep 2018 5:15

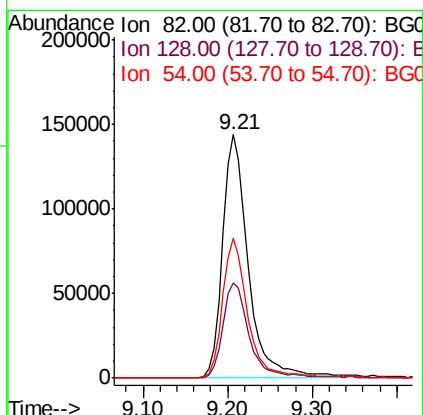
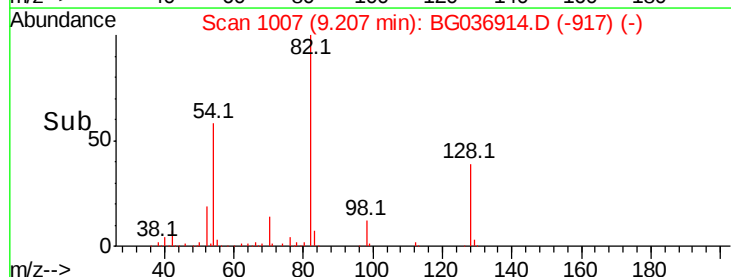
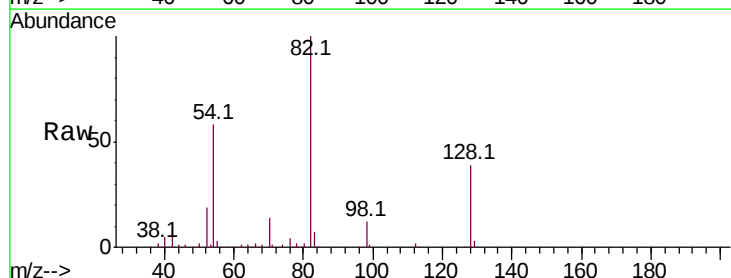
Instrument :  
BNA\_G  
ClientSampleId :

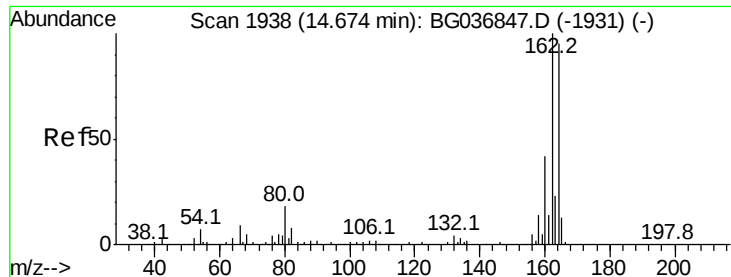
|             |       |        |
|-------------|-------|--------|
| Tot Ion:136 | Resp: | 151376 |
| Ion Ratio   | Lower | Upper  |
| 136 100     |       |        |
| 137 11.3    | 8.8   | 13.2   |
| 54 12.0     | 9.2   | 13.8   |
| 68 6.7      | 5.8   | 8.6    |



#23  
Nitrobenzene-d5  
Concen: 107.019 ng  
RT: 9.21 min Scan# 1007  
Delta R.T. -0.00 min  
Lab File: BG036914.D  
Acq: 23 Sep 2018 5:15

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 82 | Resp: | 302518 |
| Ion | Ratio   | Lower | Upper  |
| 82  | 100     |       |        |
| 128 | 39.2    | 33.3  | 49.9   |
| 54  | 57.6    | 45.1  | 67.7   |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.67 min Scan# 1937

Delta R.T. -0.00 min

Lab File: BG036914.D

Acq: 23 Sep 2018 5:15

Instrument :

BNA\_G

ClientSampleId :

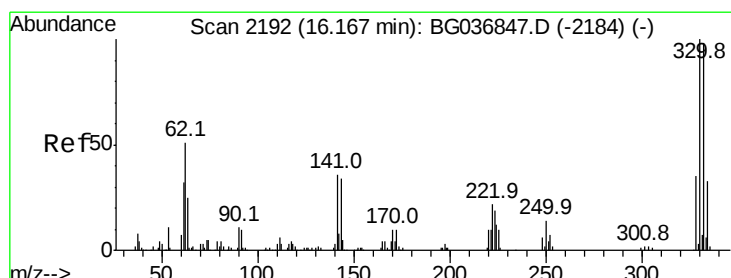
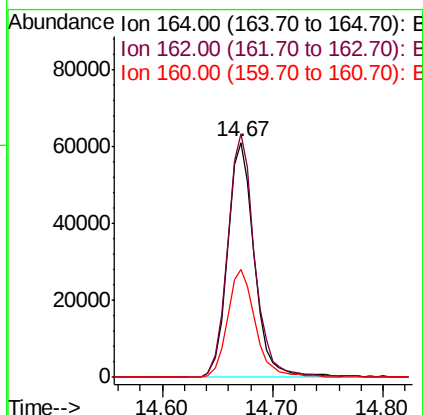
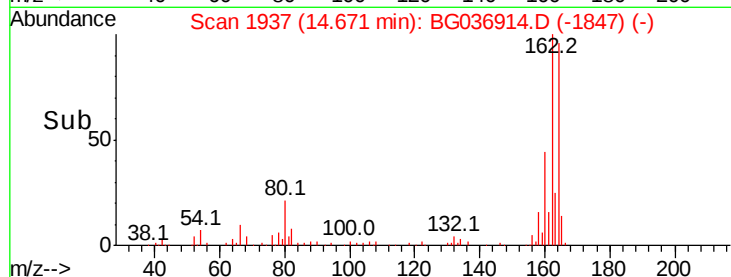
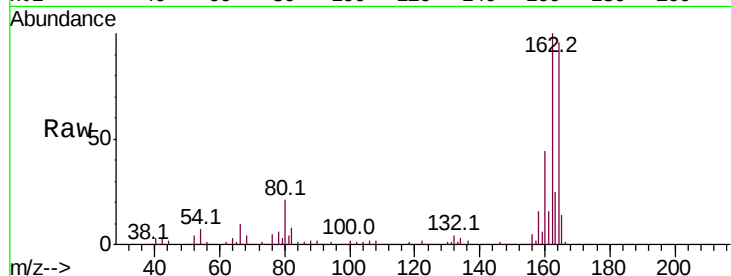
Tot Ion:164 Resp: 103592

Ion Ratio Lower Upper

164 100

162 103.7 80.7 121.1

160 45.8 35.3 52.9



#41

2,4,6-Tribromophenol

Concen: 113.103 ng

RT: 16.16 min Scan# 2190

Delta R.T. -0.01 min

Lab File: BG036914.D

Acq: 23 Sep 2018 5:15

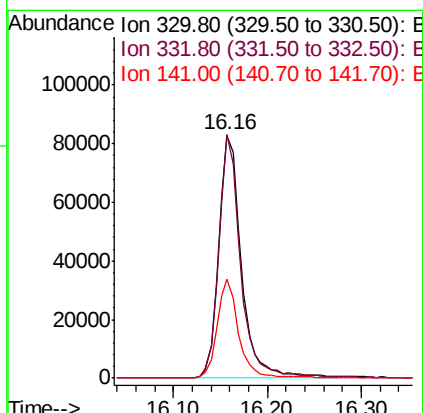
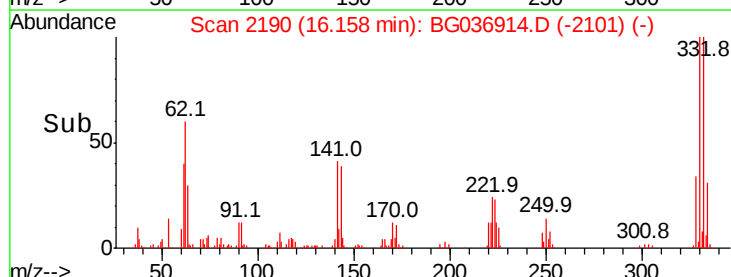
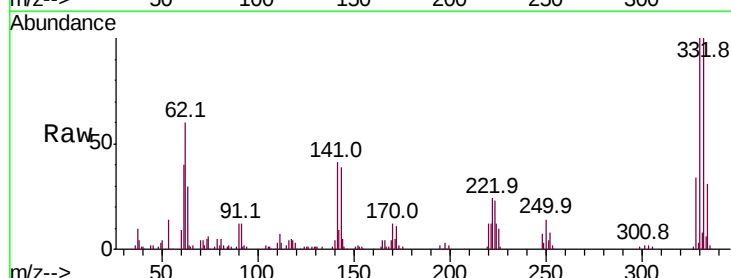
Tgt Ion:330 Resp: 140182

Ion Ratio Lower Upper

330 100

332 97.1 75.4 113.2

141 38.9 30.7 46.1

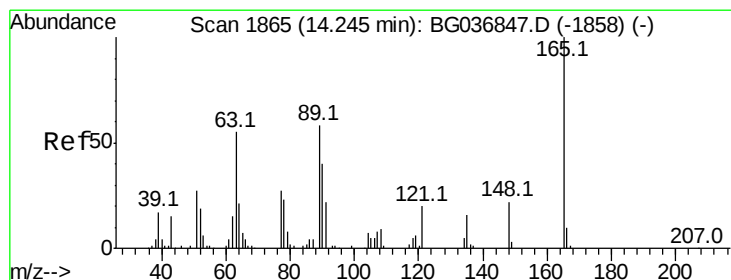
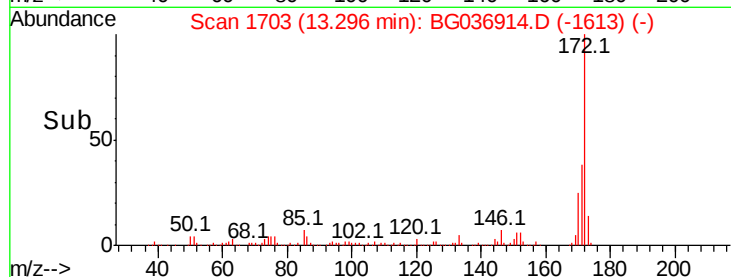
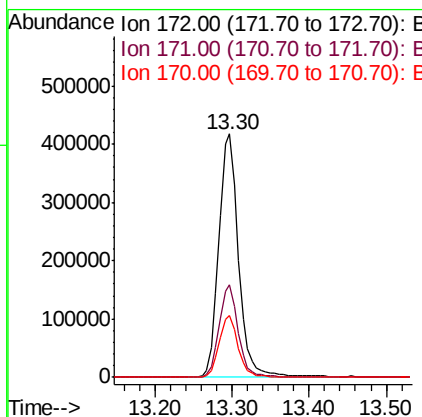
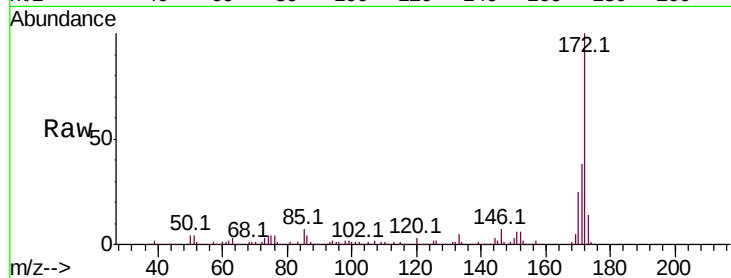




#44  
 2-Fluorobiphenyl  
 Concen: 106.276 ng  
 RT: 13.30 min Scan# 1703  
 Delta R.T. -0.00 min  
 Lab File: BG036914.D  
 Acq: 23 Sep 2018 5:15

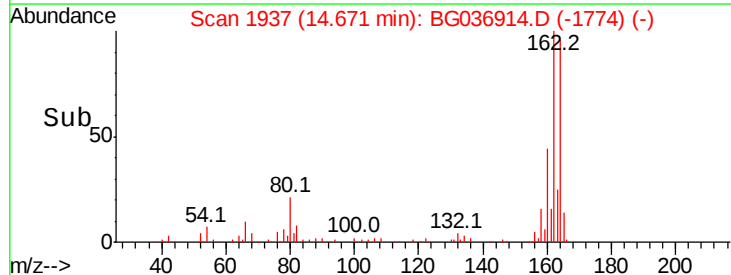
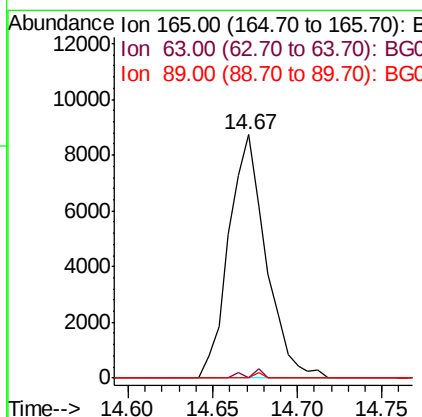
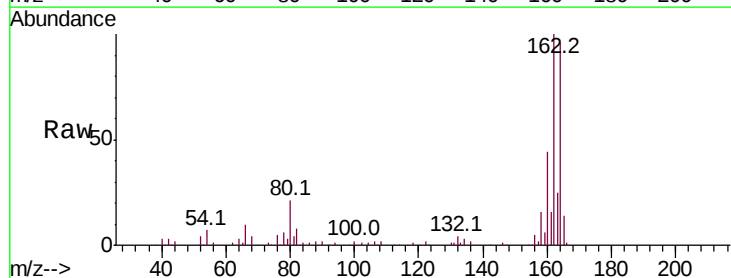
Instrument :  
 BNA\_G  
 ClientSampled :

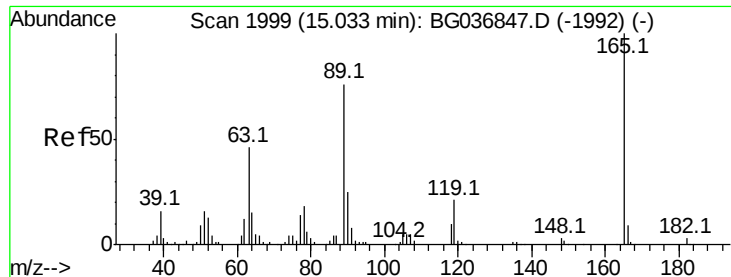
Tot Ion:172 Resp: 739182  
 Ion Ratio Lower Upper  
 172 100  
 171 38.0 31.3 46.9  
 170 25.4 21.0 31.6



#50  
 2,6-Dinitrotoluene  
 Concen: 7.313 ng  
 RT: 14.67 min Scan# 1937  
 Delta R.T. 0.43 min  
 Lab File: BG036914.D  
 Acq: 23 Sep 2018 5:15

Tgt Ion:165 Resp: 13305  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 50.1 75.1#  
 89 0.0 47.8 71.6#

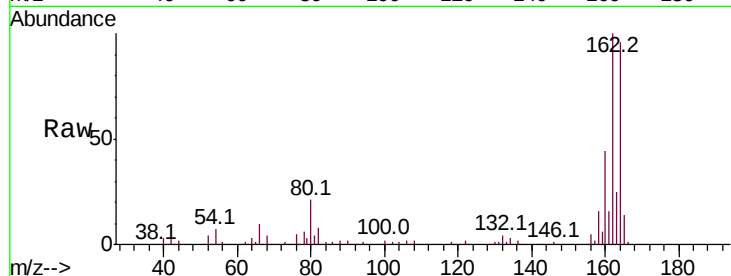




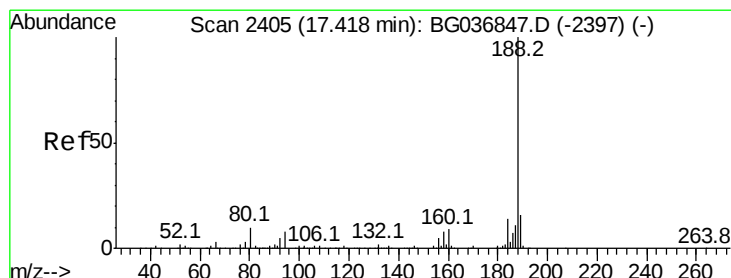
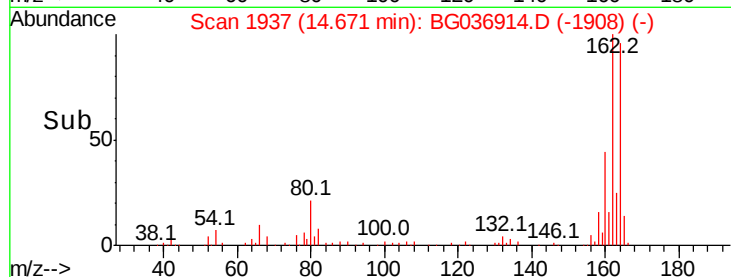
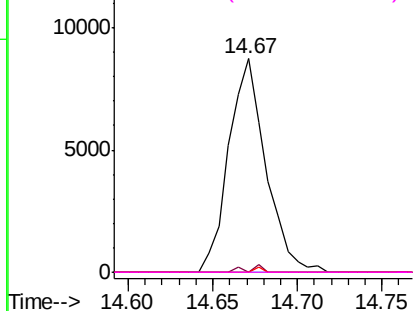
#56  
 2,4-Dinitrotoluene  
 Concen: 5.241 ng  
 RT: 14.67 min Scan# 1937  
 Delta R.T. -0.36 min  
 Lab File: BG036914.D  
 Acq: 23 Sep 2018 5:15

Instrument :  
 BNA\_G  
 ClientSampled :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 13305      |
| 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#   |

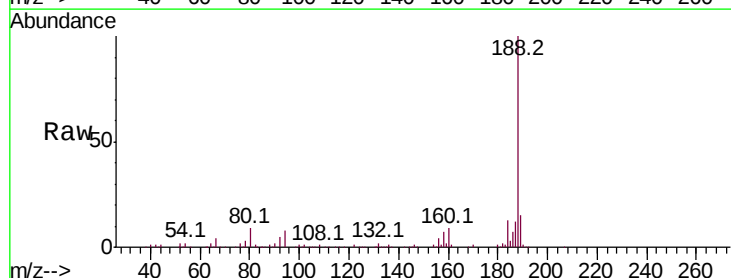


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

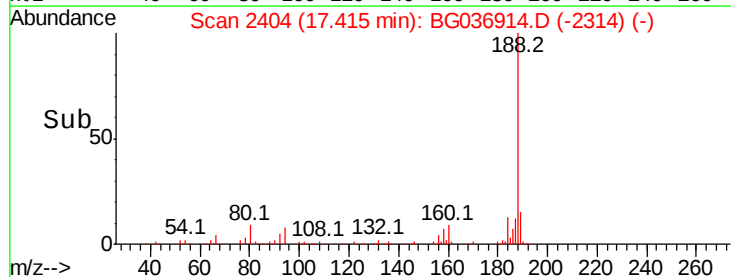
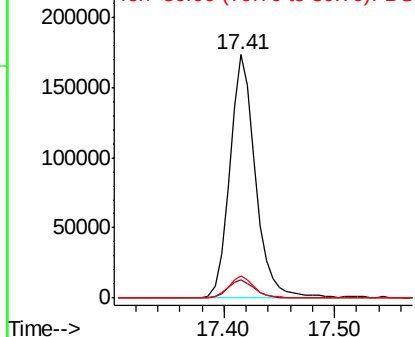


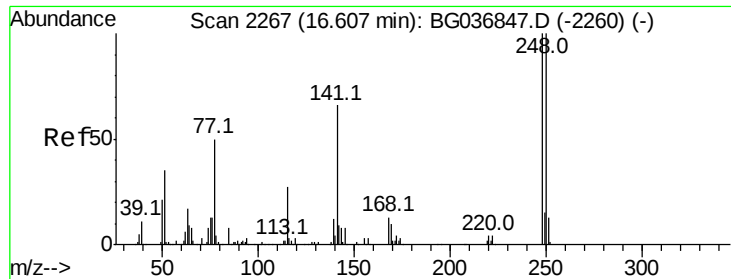
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.41 min Scan# 2404  
 Delta R.T. -0.00 min  
 Lab File: BG036914.D  
 Acq: 23 Sep 2018 5:15

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 281543   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 7.8   | 6.7 10.1 |
| 80          | 9.3   | 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

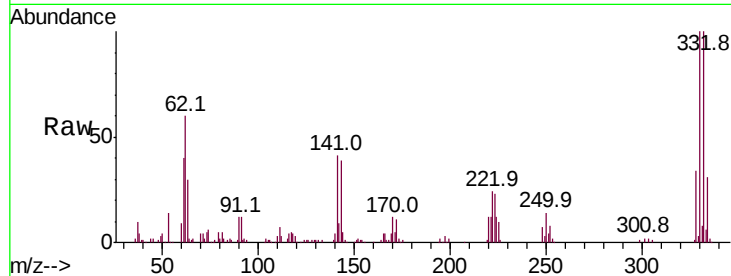




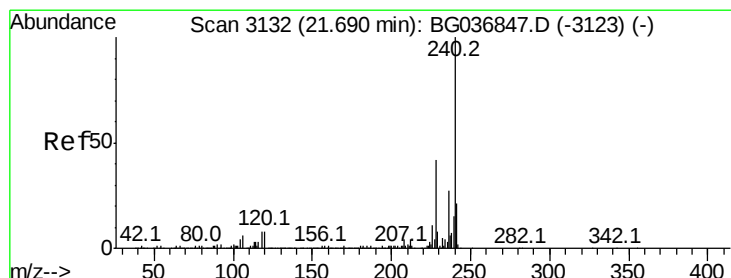
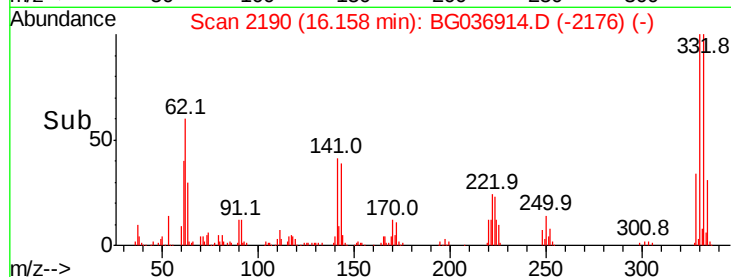
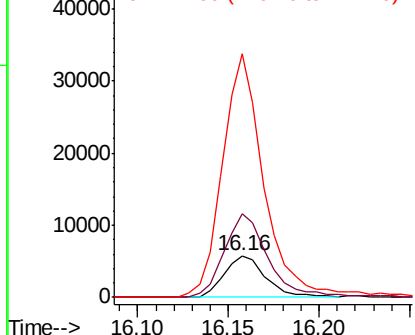
#66  
4-Bromophenyl-phenylether  
Concen: 2.879 ng  
RT: 16.16 min Scan# 2190  
Delta R.T. -0.45 min  
Lab File: BG036914.D  
Acq: 23 Sep 2018 5:15

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:248 Resp: 9219  
Ion Ratio Lower Upper  
248 100  
250 201.6 78.1 117.1#  
141 586.1 53.7 80.5#

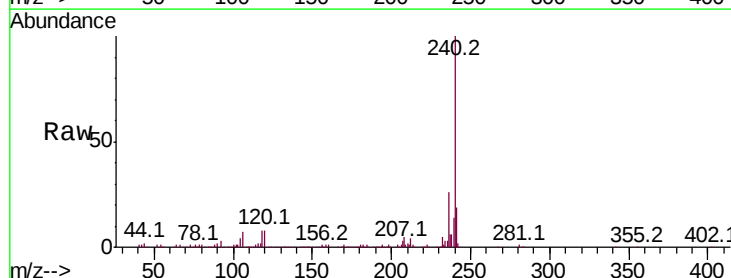


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

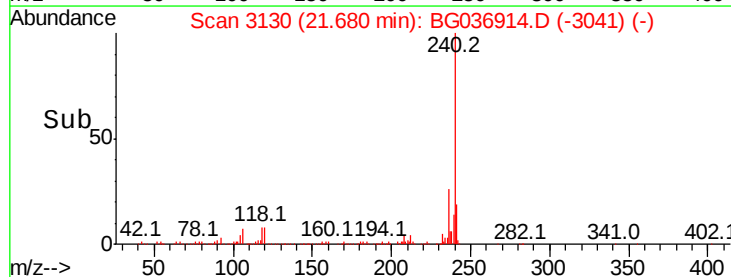
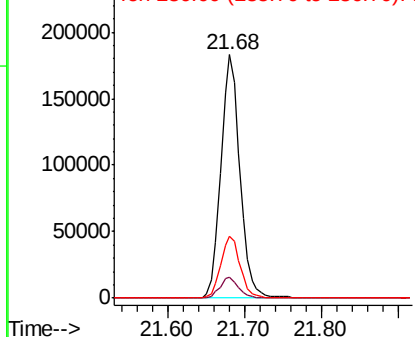


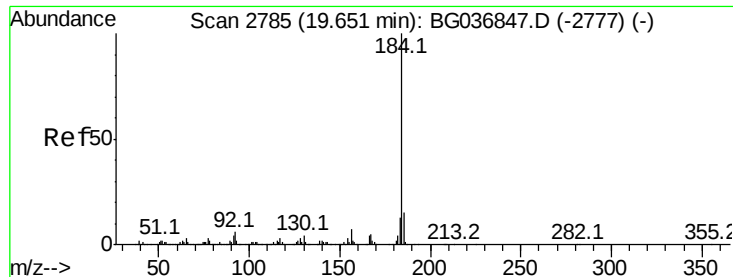
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.68 min Scan# 3130  
Delta R.T. -0.01 min  
Lab File: BG036914.D  
Acq: 23 Sep 2018 5:15

Tgt Ion:240 Resp: 313893  
Ion Ratio Lower Upper  
240 100  
120 8.4 6.9 10.3  
236 25.5 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: 2.733 ng

RT: 20.02 min Scan# 2848

Delta R.T. 0.37 min

Lab File: BG036914.D

Acq: 23 Sep 2018 5:15

Instrument :

BNA\_G

ClientSampled :

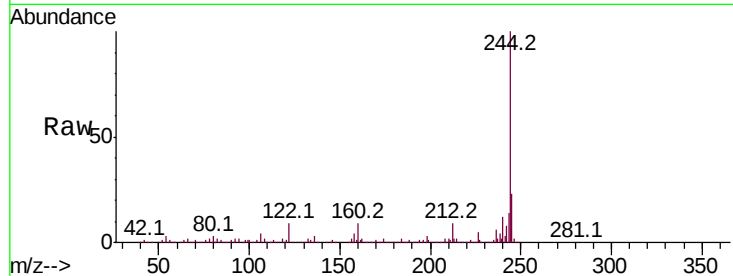
Tot Ion:184 Resp: 25936

Ion Ratio Lower Upper

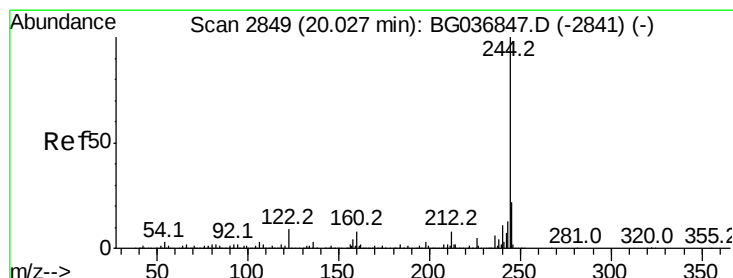
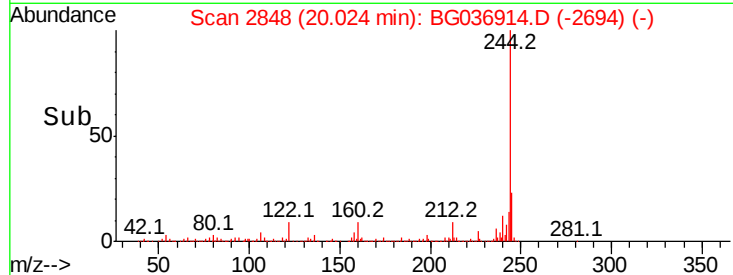
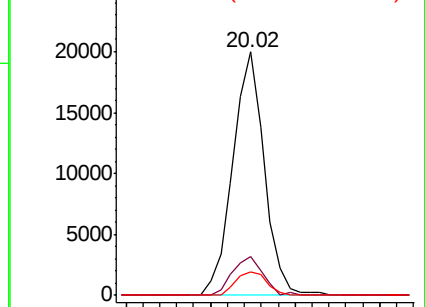
184 100

185 15.9 12.6 18.8

183 9.4 10.9 16.3#



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: 120.113 ng

RT: 20.02 min Scan# 2848

Delta R.T. -0.00 min

Lab File: BG036914.D

Acq: 23 Sep 2018 5:15

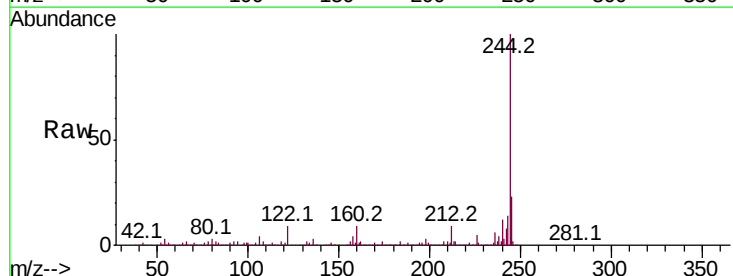
Tgt Ion:244 Resp: 1433843

Ion Ratio Lower Upper

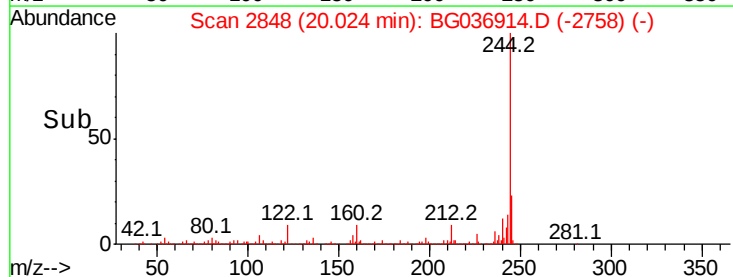
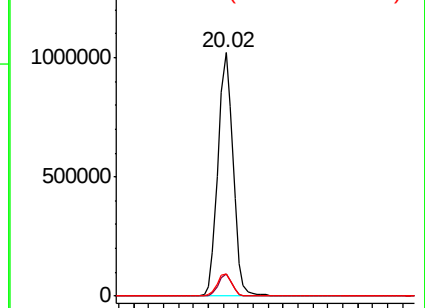
244 100

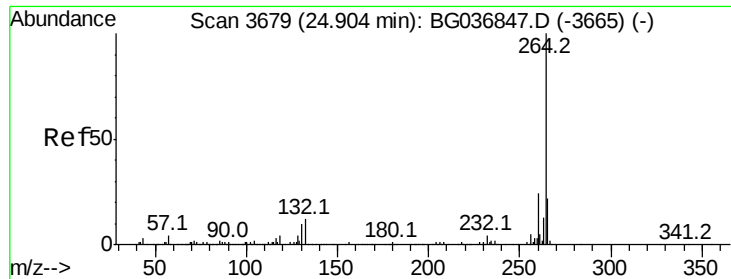
212 9.0 7.0 10.6

122 9.2 7.1 10.7



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

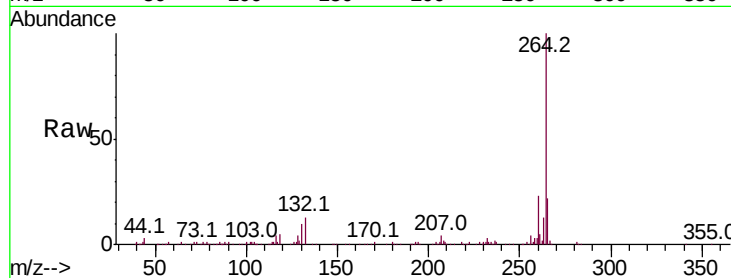




#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 24.89 min Scan# 3676  
Delta R.T. -0.02 min  
Lab File: BG036914.D  
Acq: 23 Sep 2018 5:15

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.2  | 19.6  | 29.4  |
| 265     | 22.1  | 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

