

Data File : BG038250.D  
Acq On : 30 Nov 2018 2:14  
Operator : JU/SJ  
Sample : PB115166TB  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
PB115166TB

Quant Time: Nov 30 04:10:20 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG111318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 13 16:39:28 2018  
Response via : Initial Calibration

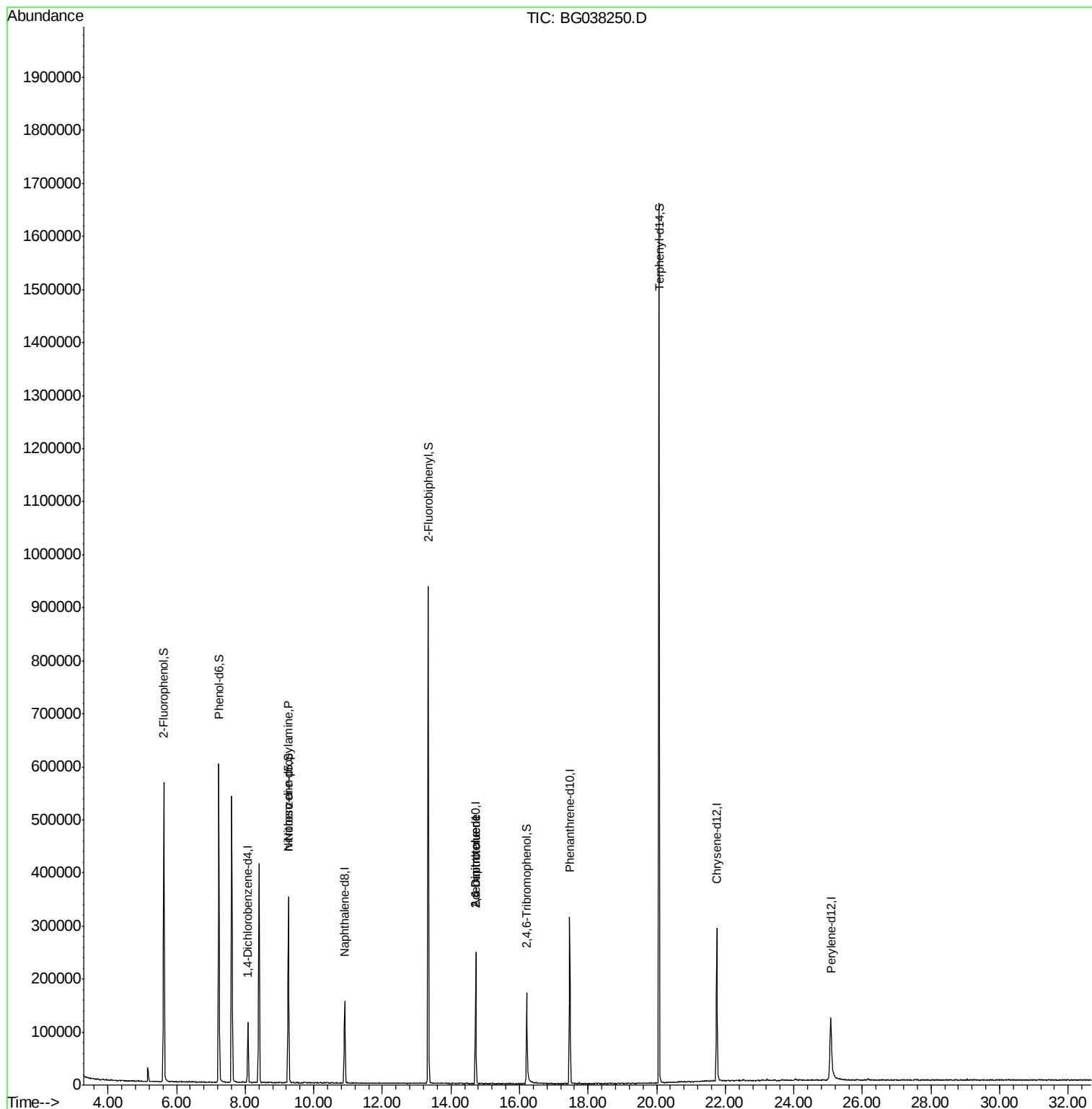
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.08  | 152  | 31607    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.90 | 136  | 138954   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.72 | 164  | 90285    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.46 | 188  | 206228   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.75 | 240  | 202912   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.08 | 264  | 182511   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.63  | 112  | 257340   | 140.57 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.23  | 99   | 359798   | 137.69 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.26  | 82   | 224818   | 86.61  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.21 | 330  | 44276    | 43.00  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.34 | 172  | 519832   | 83.88  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.07 | 244  | 817674   | 94.82  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.26  | 70   | 28742    | 15.201 | ng    | # 75     |
| 51) 2,6-Dinitrotoluene         | 14.72 | 165  | 11235    | 6.935  | ng    | # 23     |
| 57) 2,4-Dinitrotoluene         | 14.72 | 165  | 11235    | 5.097  | ng    | # 23     |

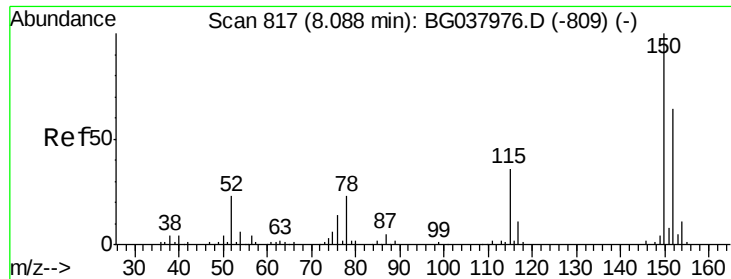
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : BG038250.D  
Acq On : 30 Nov 2018 2:14  
Operator : JU/SJ  
Sample : PB115166TB  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
PB115166TB

Quant Time: Nov 30 04:10:20 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG111318.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 13 16:39:28 2018  
Response via : Initial Calibration



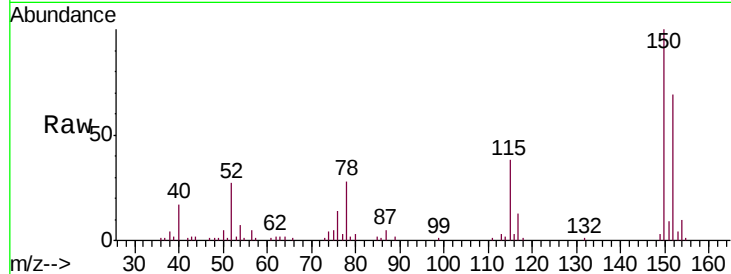


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.08 min Scan# 816  
Delta R.T. -0.01 min  
Lab File: BG038250.D  
Acq: 30 Nov 2018 2:14

Instrument :  
BNA\_G  
ClientSampleId :  
PB115166TB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 144.4 | 126.0 | 189.0 |
| 115     | 55.6  | 45.5  | 68.3  |

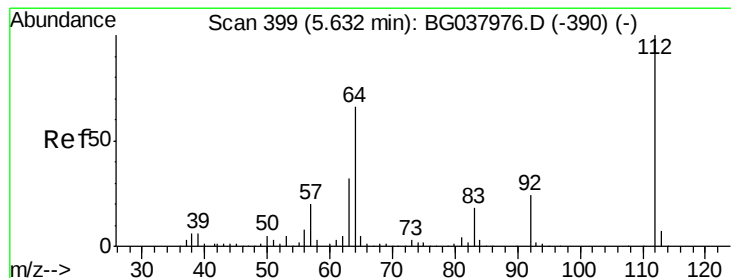
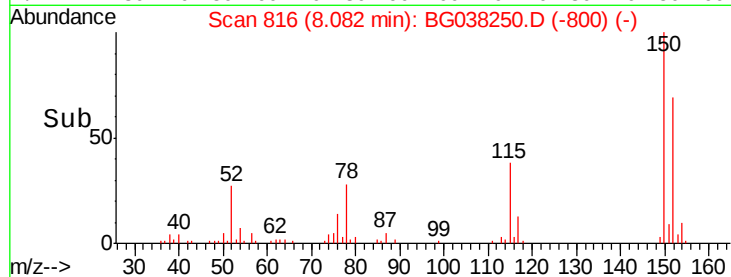
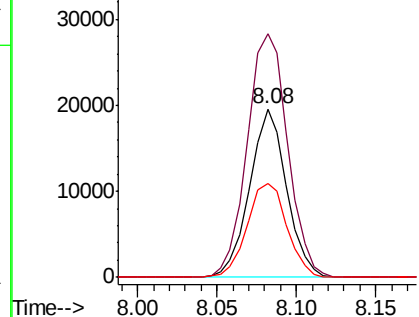


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

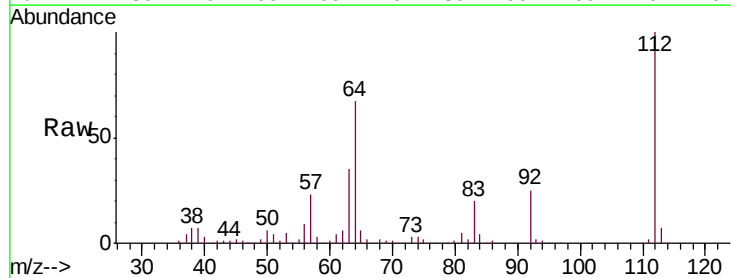
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 140.575 ng  
RT: 5.63 min Scan# 398  
Delta R.T. -0.01 min  
Lab File: BG038250.D  
Acq: 30 Nov 2018 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.1  | 53.1  | 79.7  |
| 63      | 34.7  | 27.3  | 40.9  |

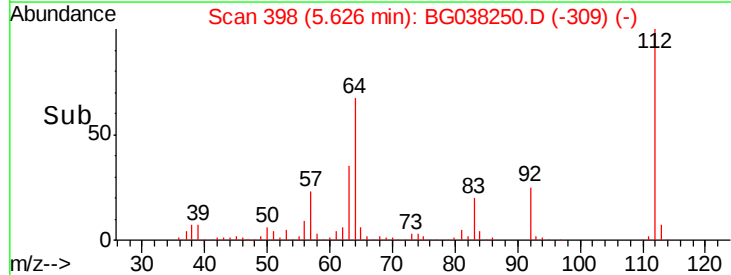
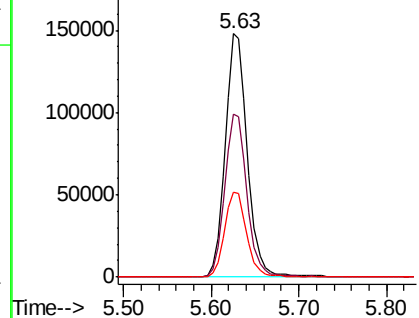


Abundance

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: 137.689 ng

RT: 7.23 min Scan# 671

Delta R.T. -0.00 min

Lab File: BG038250.D

Acq: 30 Nov 2018 2:14

Instrument :

BNA\_G

ClientSampleId :

PB115166TB

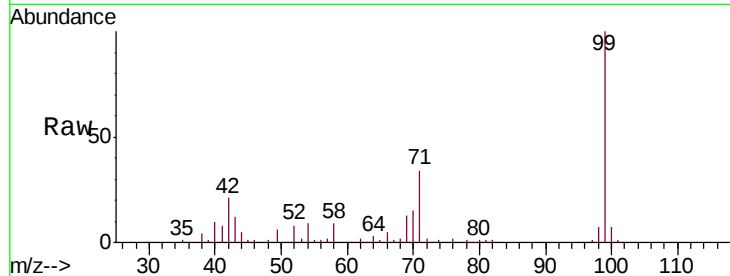
Tgt Ion: 99 Resp: 359798

Ion Ratio Lower Upper

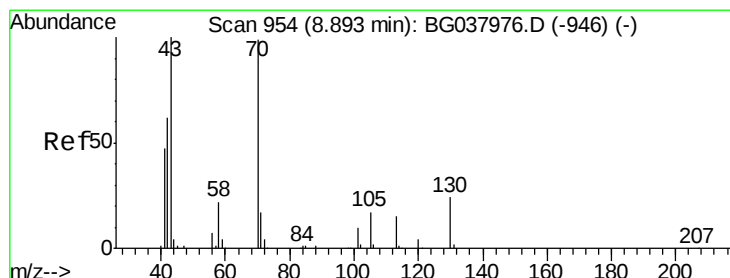
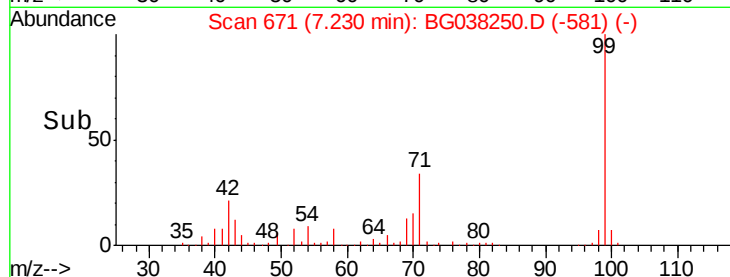
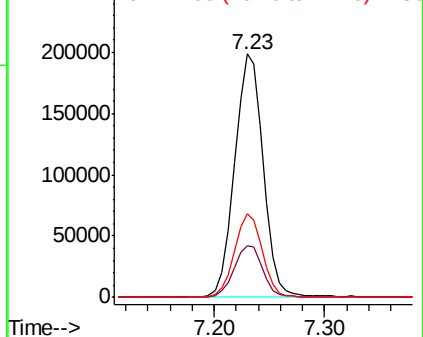
99 100

42 21.1 15.0 22.4

71 34.1 25.5 38.3



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: 15.201 ng

RT: 9.26 min Scan# 1016

Delta R.T. 0.36 min

Lab File: BG038250.D

Acq: 30 Nov 2018 2:14

Tgt Ion: 70 Resp: 28742

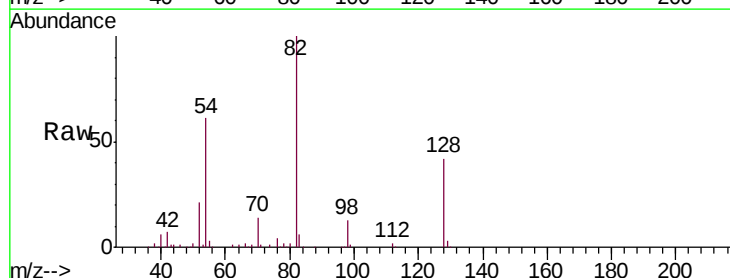
Ion Ratio Lower Upper

70 100

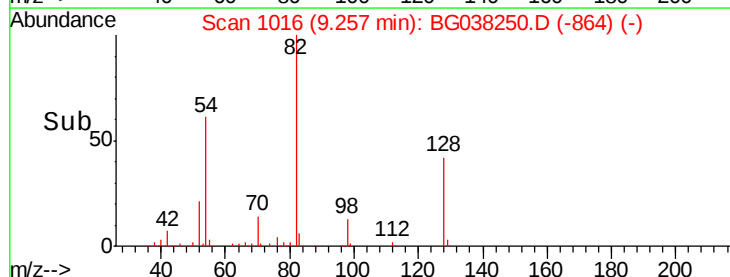
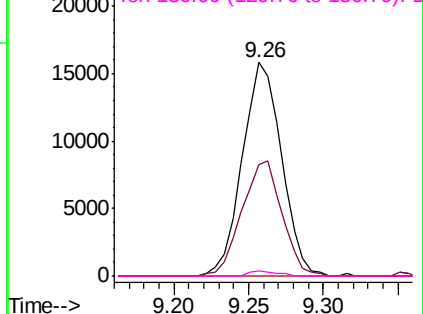
42 52.2 53.9 80.9#

101 0.0 8.2 12.2#

130 2.1 18.2 27.4#



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

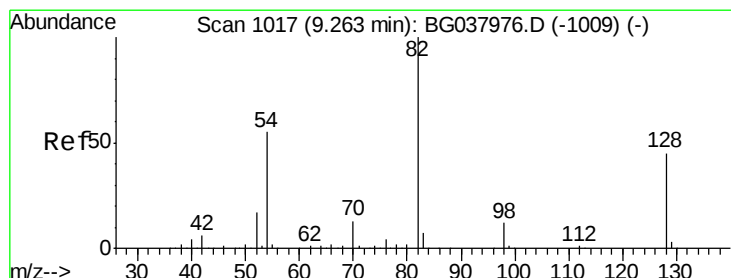
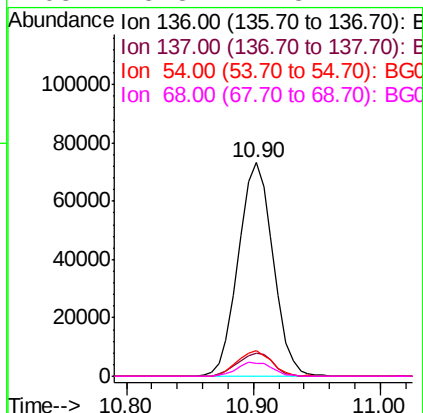
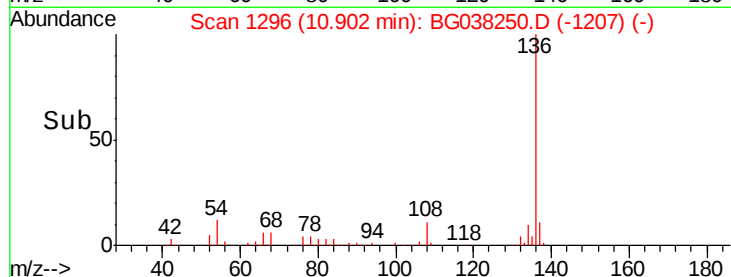
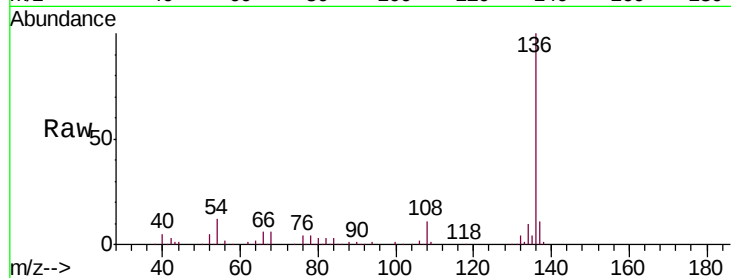




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.90 min Scan# 1296  
Delta R.T. -0.01 min  
Lab File: BG038250.D  
Acq: 30 Nov 2018 2:14

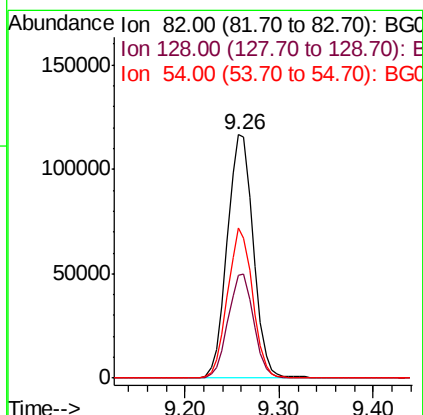
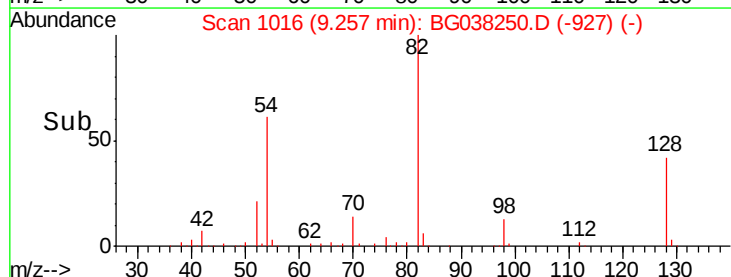
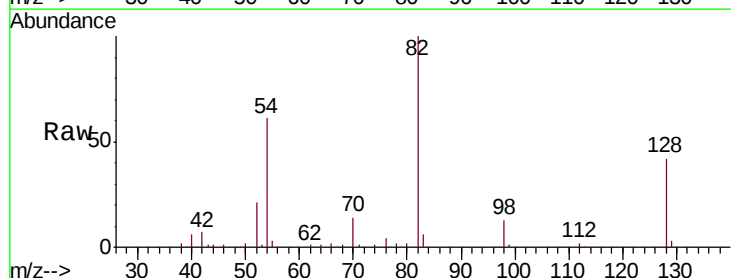
Instrument :  
BNA\_G  
ClientSampleId :  
PB115166TB

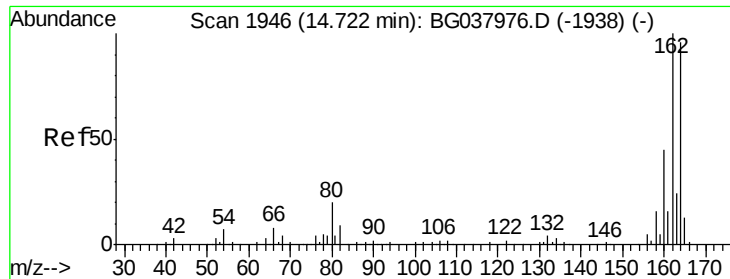
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 138954 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 9.6   | 14.4   |
| 54       | 12.3  | 7.9   | 11.9#  |
| 68       | 5.8   | 4.8   | 7.2    |



#23  
Nitrobenzene-d5  
Concen: 86.608 ng  
RT: 9.26 min Scan# 1016  
Delta R.T. -0.01 min  
Lab File: BG038250.D  
Acq: 30 Nov 2018 2:14

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 224818 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.2  | 34.6  | 51.8   |
| 54       | 61.5  | 45.3  | 67.9   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.72 min Scan# 1945

Delta R.T. -0.01 min

Lab File: BG038250.D

Acq: 30 Nov 2018 2:14

Instrument :

BNA\_G

ClientSampleId :

PB115166TB

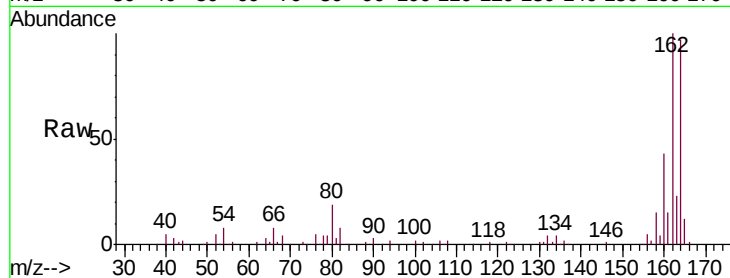
Tgt Ion:164 Resp: 90285

Ion Ratio Lower Upper

164 100

162 103.6 81.3 121.9

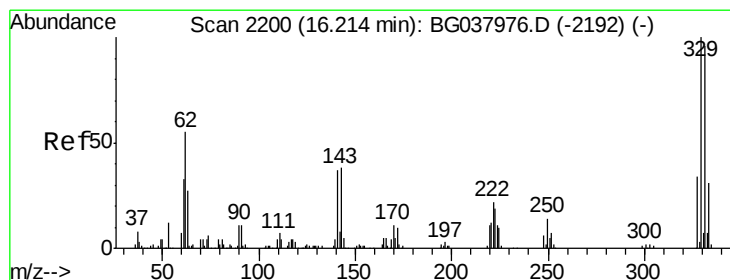
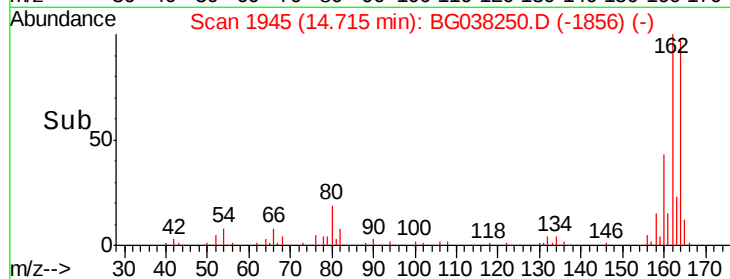
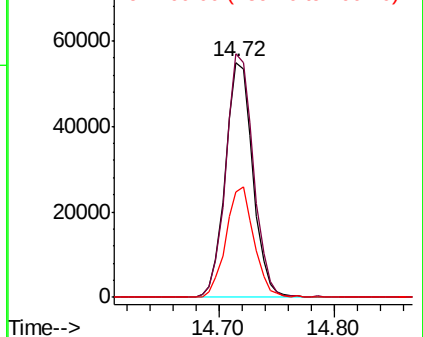
160 44.8 36.3 54.5



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



#42

2,4,6-Tribromophenol

Concen: 43.000 ng

RT: 16.21 min Scan# 2199

Delta R.T. -0.01 min

Lab File: BG038250.D

Acq: 30 Nov 2018 2:14

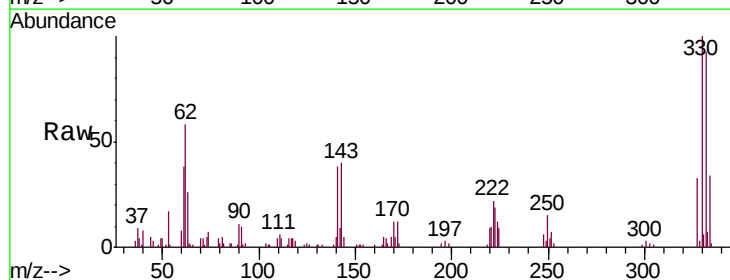
Tgt Ion:330 Resp: 44276

Ion Ratio Lower Upper

330 100

332 94.0 78.4 117.6

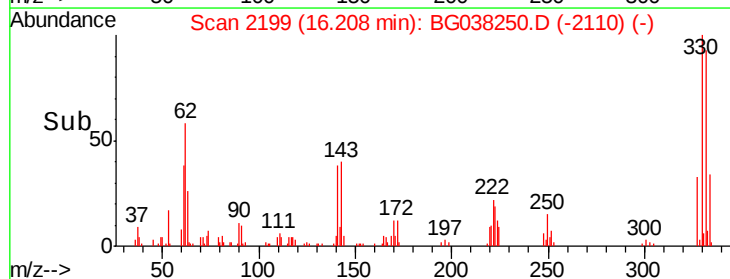
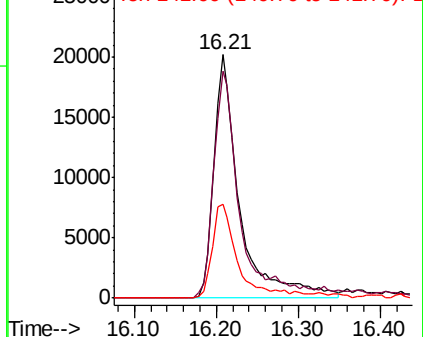
141 38.9 32.2 48.2



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

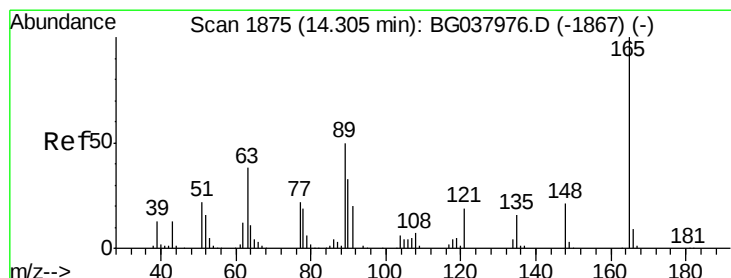
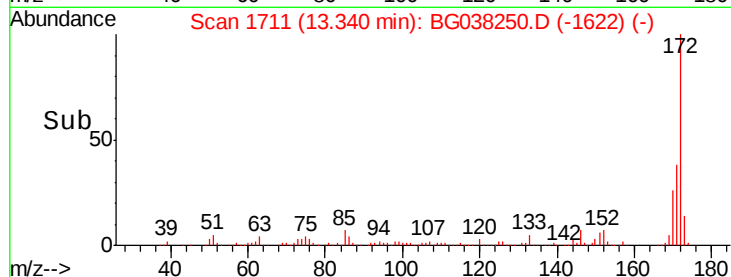
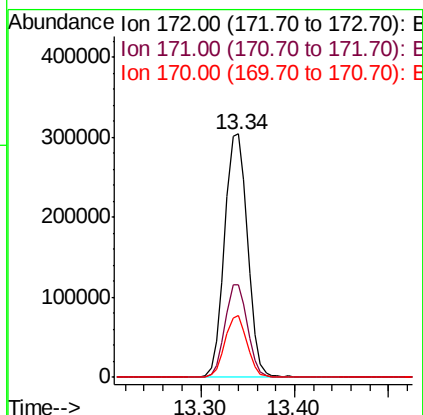
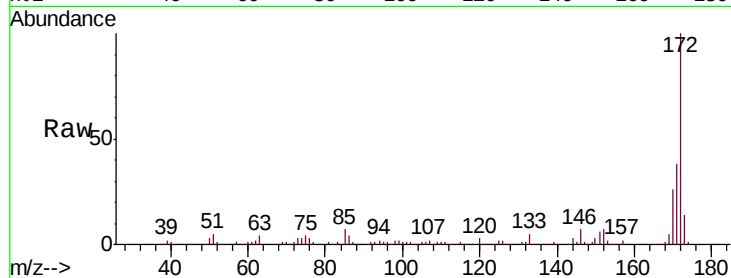




#45  
 2-Fluorobiphenyl  
 Concen: 83.881 ng  
 RT: 13.34 min Scan# 1711  
 Delta R.T. -0.01 min  
 Lab File: BG038250.D  
 Acq: 30 Nov 2018 2:14

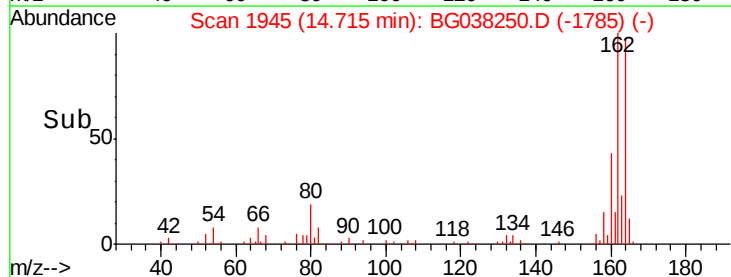
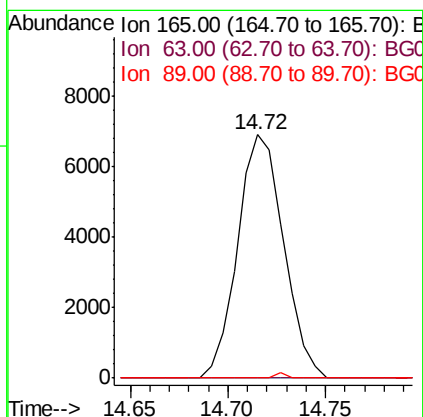
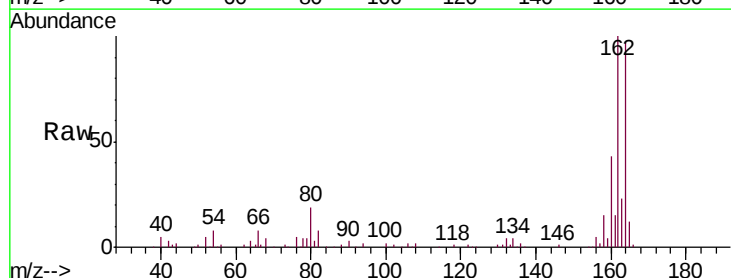
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB115166TB

Tgt Ion:172 Resp: 519832  
 Ion Ratio Lower Upper  
 172 100  
 171 37.9 31.0 46.4  
 170 25.7 20.2 30.2



#51  
 2,6-Dinitrotoluene  
 Concen: 6.935 ng  
 RT: 14.72 min Scan# 1945  
 Delta R.T. 0.41 min  
 Lab File: BG038250.D  
 Acq: 30 Nov 2018 2:14

Tgt Ion:165 Resp: 11235  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 43.4 65.2#  
 89 0.0 45.8 68.6#

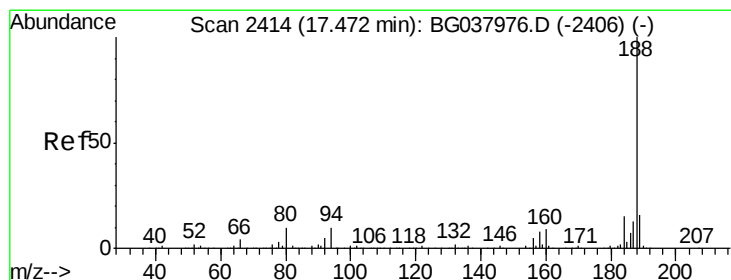
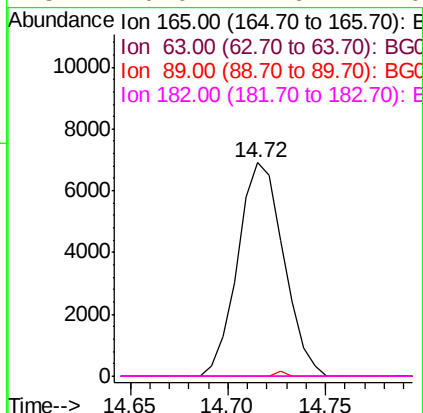
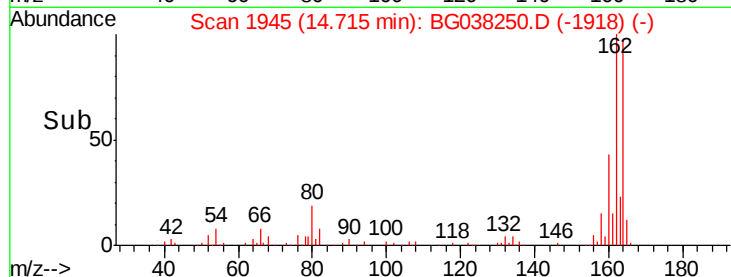
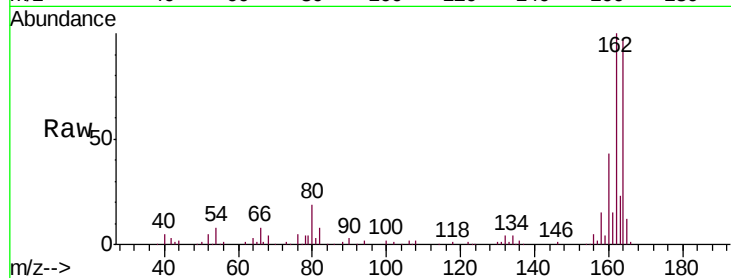




#57  
 2,4-Dinitrotoluene  
 Concen: 5.097 ng  
 RT: 14.72 min Scan# 1945  
 Delta R.T. -0.37 min  
 Lab File: BG038250.D  
 Acq: 30 Nov 2018 2:14

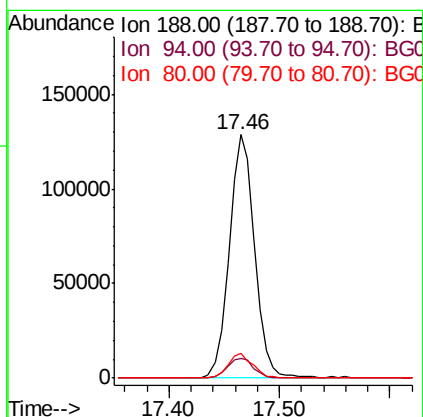
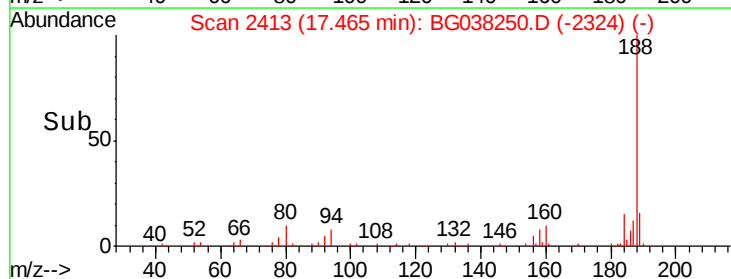
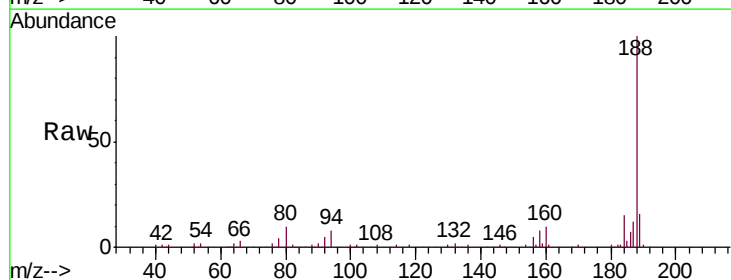
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB115166TB

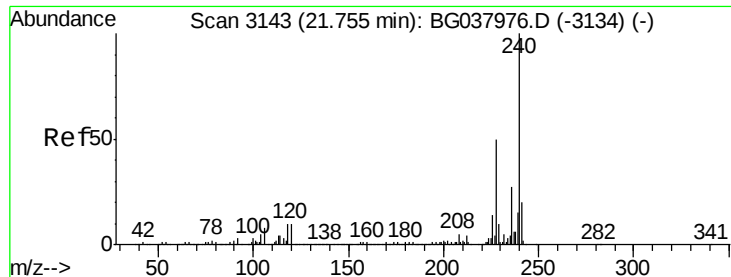
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 11235 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 0.0   | 33.4  | 50.0# |
| 89        | 0.0   | 57.2  | 85.8# |
| 182       | 0.0   | 2.6   | 4.0#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.46 min Scan# 2413  
 Delta R.T. -0.01 min  
 Lab File: BG038250.D  
 Acq: 30 Nov 2018 2:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 206228 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 7.8   | 7.2   | 10.8   |
| 80        | 10.3  | 7.7   | 11.5   |

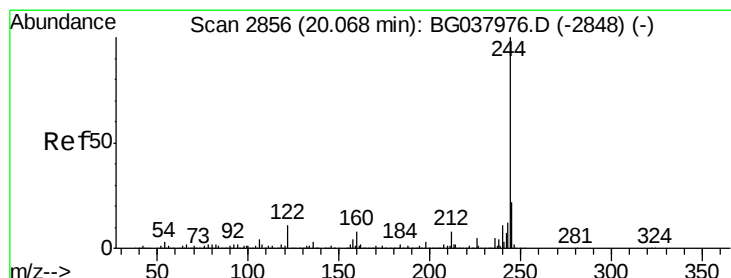
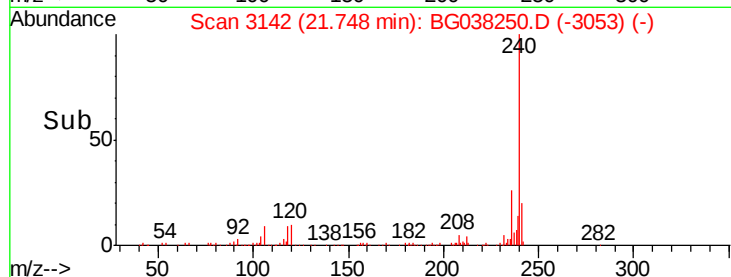
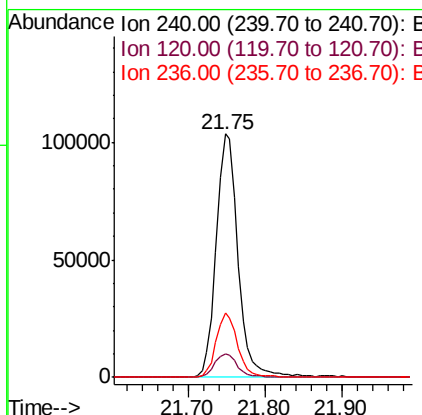
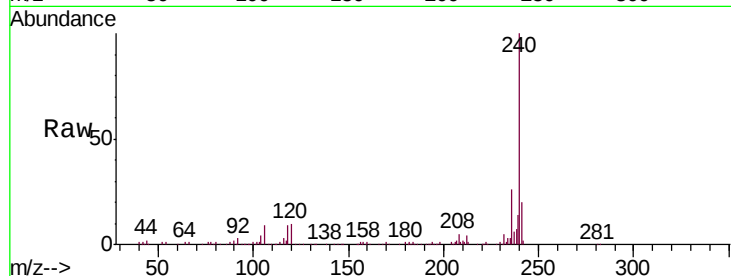




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.75 min Scan# 3142  
Delta R.T. -0.01 min  
Lab File: BG038250.D  
Acq: 30 Nov 2018 2:14

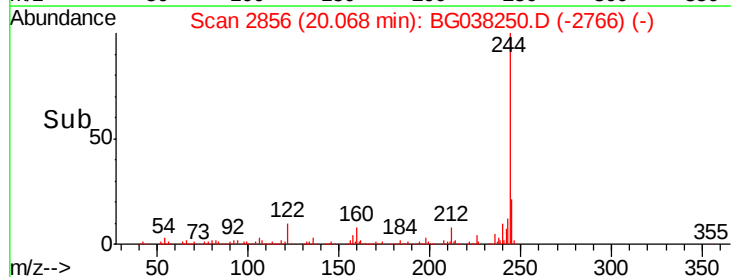
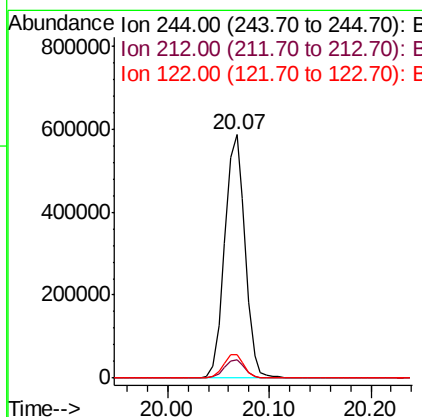
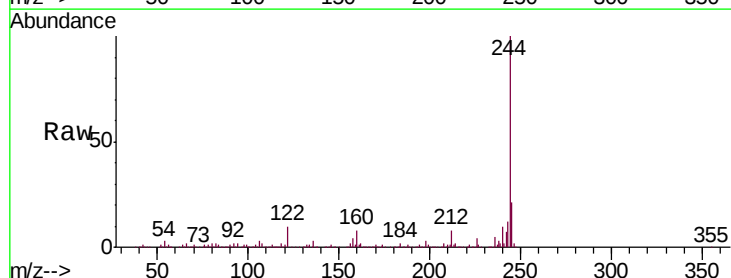
Instrument :  
BNA\_G  
ClientSampleId :  
PB115166TB

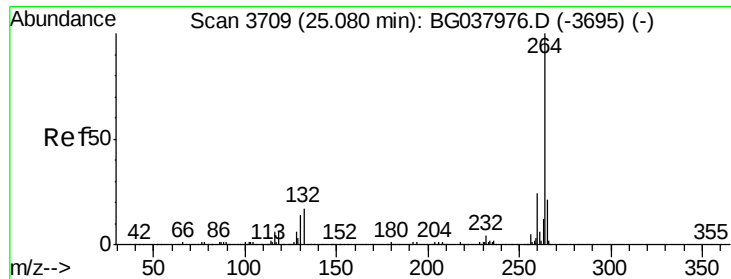
Tgt Ion:240 Resp: 202912  
Ion Ratio Lower Upper  
240 100  
120 9.7 8.1 12.1  
236 26.3 21.4 32.0



#79  
Terphenyl-d14  
Concen: 94.819 ng  
RT: 20.07 min Scan# 2856  
Delta R.T. -0.00 min  
Lab File: BG038250.D  
Acq: 30 Nov 2018 2:14

Tgt Ion:244 Resp: 817674  
Ion Ratio Lower Upper  
244 100  
212 7.8 6.5 9.7  
122 9.7 9.0 13.4





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.08 min Scan# 3709  
Delta R.T. -0.00 min  
Lab File: BG038250.D  
Acq: 30 Nov 2018 2:14

Instrument :  
BNA\_G  
ClientSampleId :  
PB115166TB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.5  | 18.2  | 27.4  |
| 265     | 19.4  | 17.9  | 26.9  |

