

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060819\  
 Data File : BG041148.D  
 Acq On : 9 Jun 2019 1:38  
 Operator : HP/JU  
 Sample : 8270PBBL1  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jun 09 23:03:48 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 29 18:39:57 2019  
 Response via : Initial Calibration

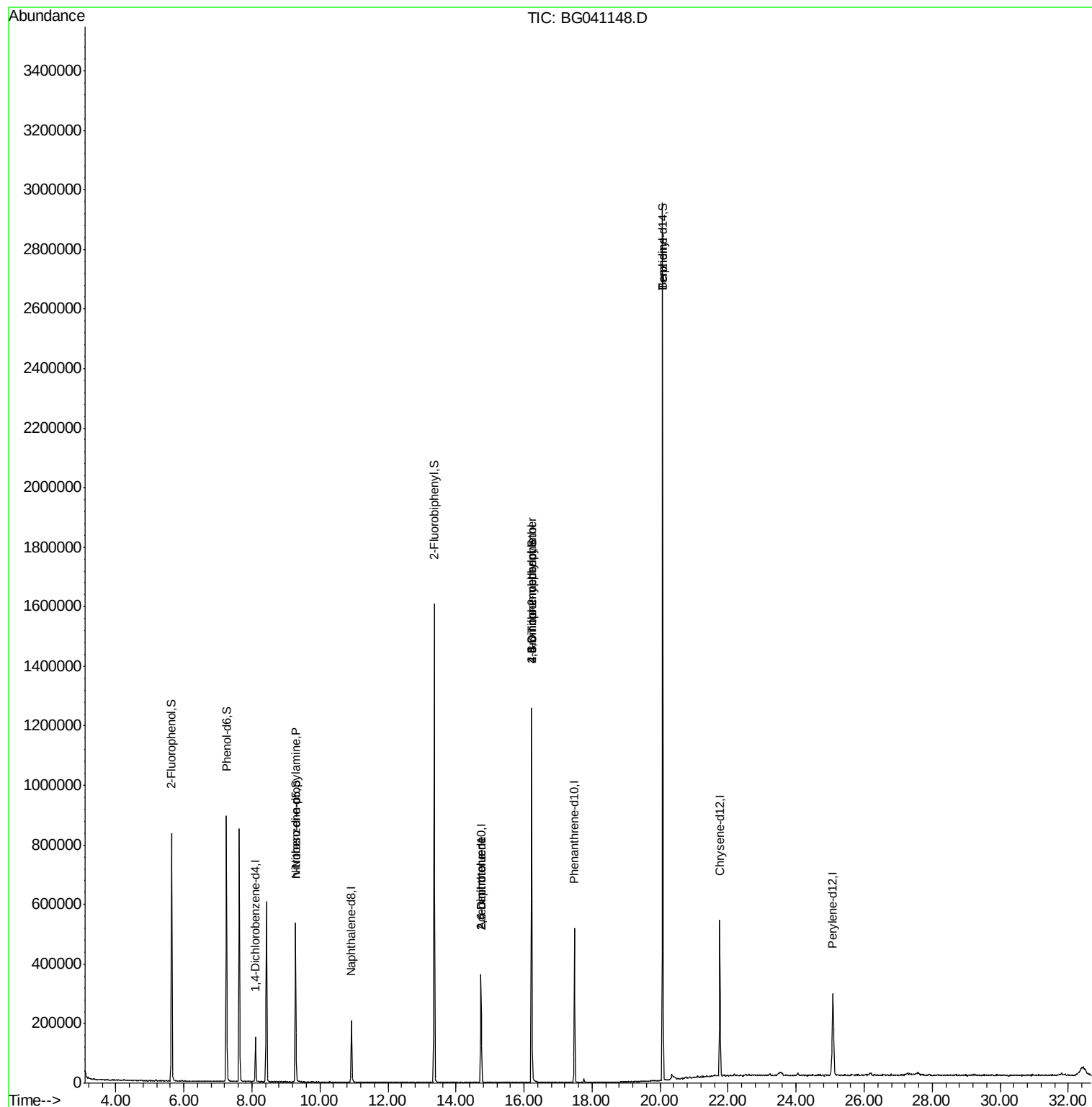
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.10  | 152  | 41413    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 10.93 | 136  | 173464   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.74 | 164  | 129928   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.48 | 188  | 318677   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.76 | 240  | 312288   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12               | 25.08 | 264  | 330303   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.64  | 112  | 311971   | 135.84 | ng    | -0.02    |
| 7) Phenol-d6                   | 7.25  | 99   | 470245   | 132.58 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 9.28  | 82   | 326908   | 83.66  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 16.22 | 330  | 240259   | 124.56 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.36 | 172  | 815601   | 90.40  | ng    | -0.02    |
| 79) Terphenyl-d14              | 20.08 | 244  | 1349926  | 91.74  | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.28  | 70   | 45842    | 16.795 | ng    | # 77     |
| 51) 2,6-Dinitrotoluene         | 14.73 | 165  | 16477    | 6.948  | ng    | # 21     |
| 57) 2,4-Dinitrotoluene         | 14.73 | 165  | 16477    | 4.919  | ng    | # 23     |
| 65) 4,6-Dinitro-2-methylphenol | 16.22 | 198  | 421      | 8.792  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 16.22 | 248  | 18622    | 4.330  | ng    | # 1      |
| 77) Benzidine                  | 20.08 | 184  | 21696    | 2.912  | ng    | # 95     |

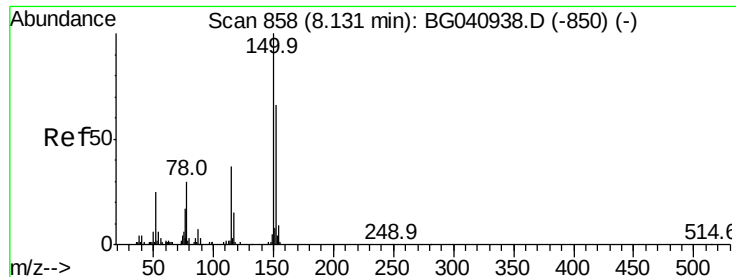
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG060819\  
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BNA\_G  
ClientSampleId :

Quant Time: Jun 09 23:03:48 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG052919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 29 18:39:57 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.10 min Scan# 853

Delta R.T. -0.03 min

Lab File: BG041148.D

Acq: 9 Jun 2019 1:38

Instrument :

BNA\_G

ClientSampleId :

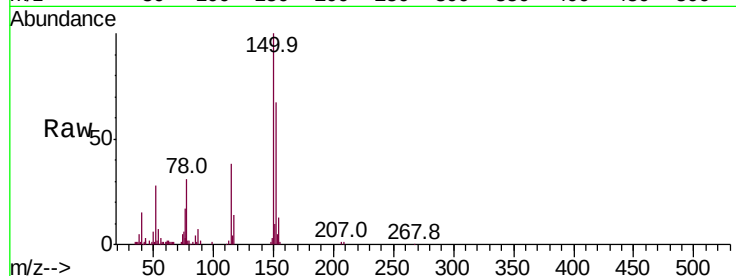
Tot Ion:152 Resp: 41413

Ion Ratio Lower Upper

152 100

150 148.2 120.6 180.8

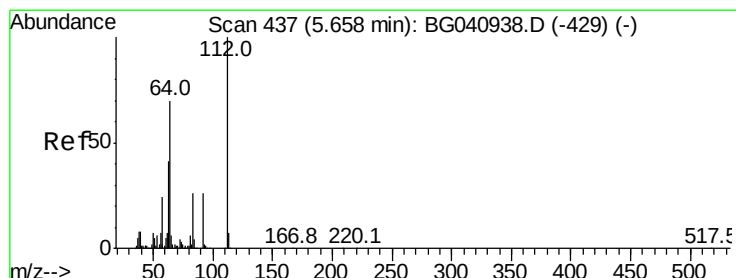
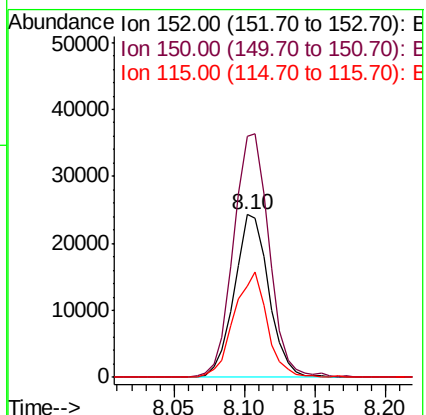
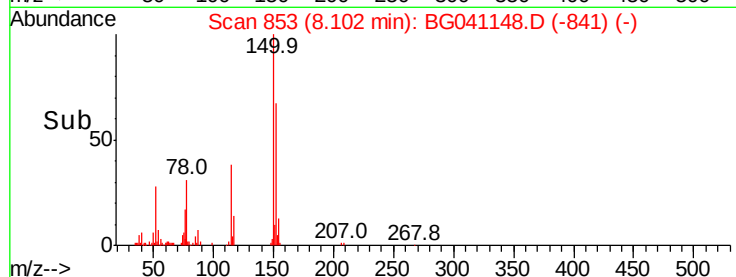
115 55.8 45.1 67.7



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: 135.839 ng

RT: 5.64 min Scan# 434

Delta R.T. -0.02 min

Lab File: BG041148.D

Acq: 9 Jun 2019 1:38

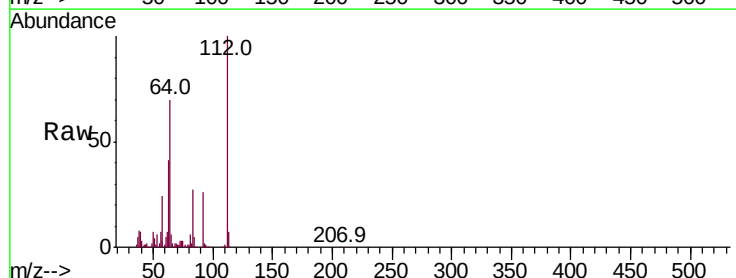
Tgt Ion:112 Resp: 311971

Ion Ratio Lower Upper

112 100

64 70.2 56.2 84.2

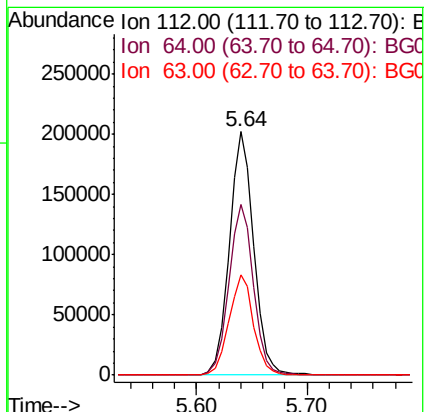
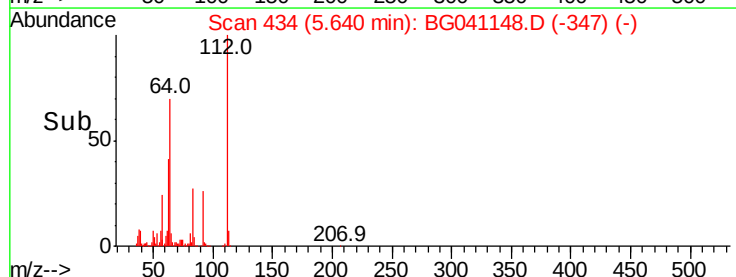
63 41.4 32.8 49.2

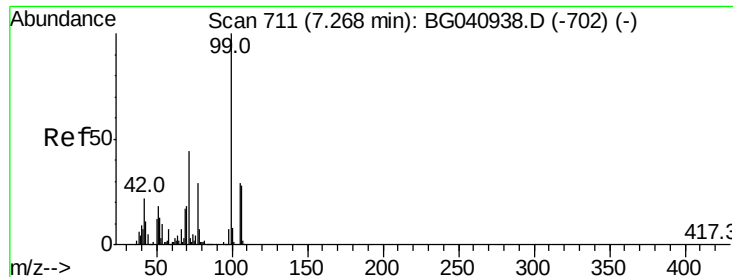


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG0

Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 132.579 ng

RT: 7.25 min Scan# 708

Delta R.T. -0.02 min

Lab File: BG041148.D

Acq: 9 Jun 2019 1:38

Instrument :

BNA\_G

ClientSampleId :

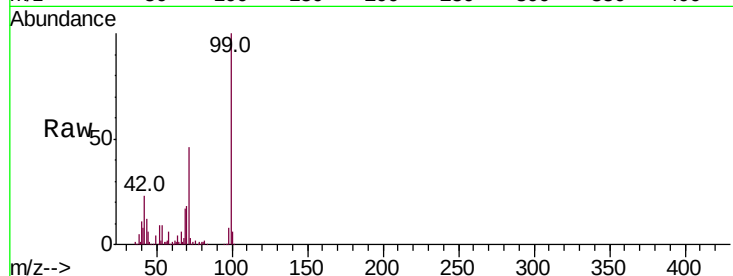
Tot Ion: 99 Resp: 470245

Ion Ratio Lower Upper

99 100

42 22.9 17.9 26.9

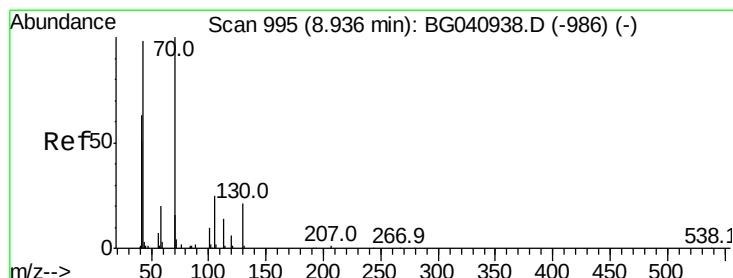
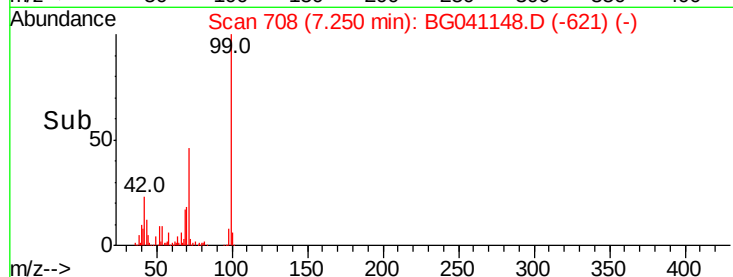
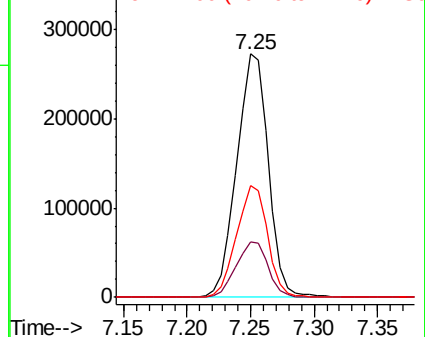
71 45.7 35.4 53.0



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: 16.795 ng

RT: 9.28 min Scan# 1054

Delta R.T. 0.35 min

Lab File: BG041148.D

Acq: 9 Jun 2019 1:38

Tgt Ion: 70 Resp: 45842

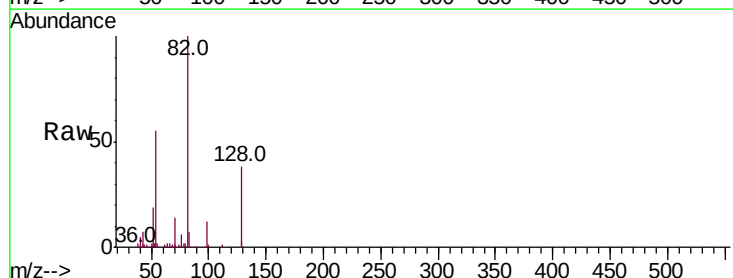
Ion Ratio Lower Upper

70 100

42 52.2 51.5 77.3

101 0.0 8.1 12.1#

130 1.1 16.6 24.8#

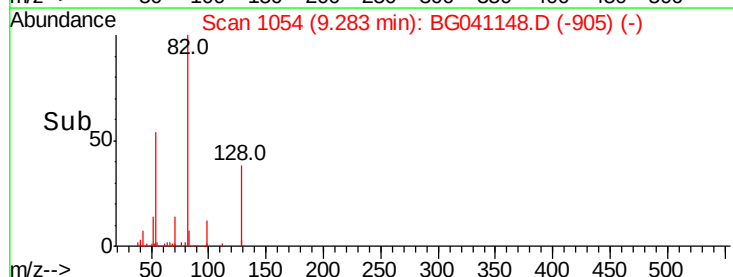
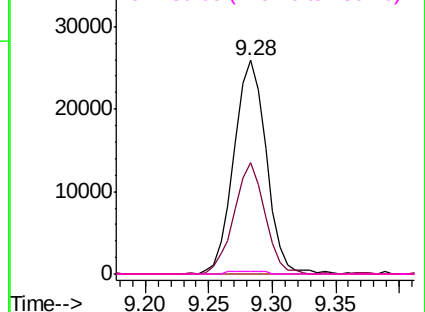


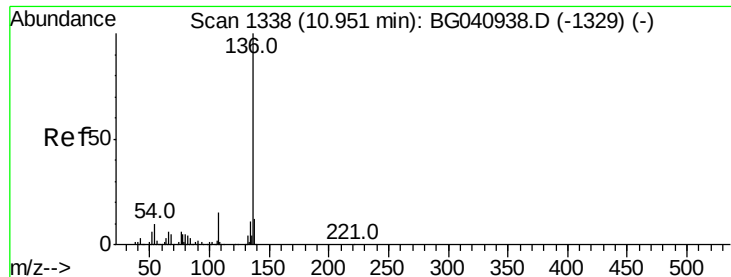
Abundance Ion 70.00 (69.70 to 70.70): BGC

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

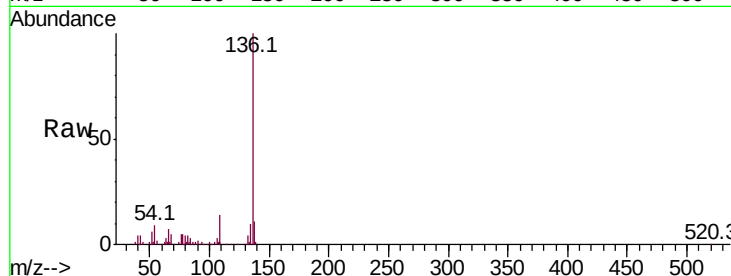




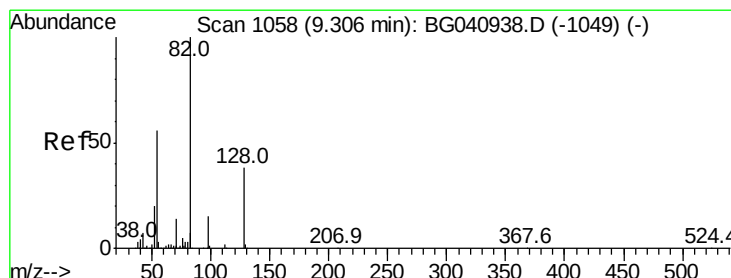
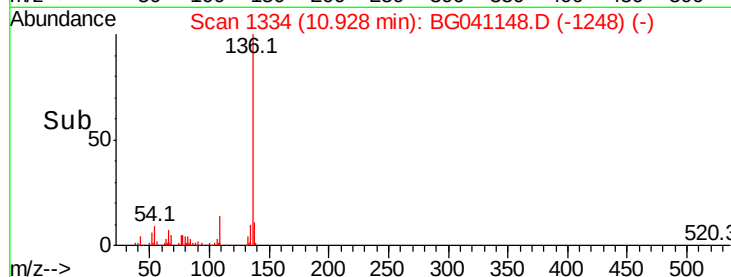
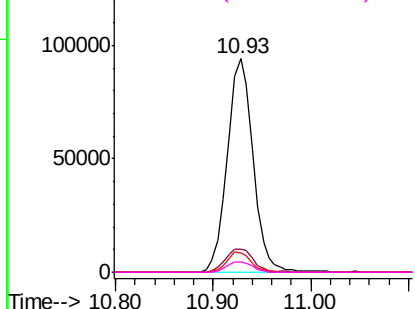
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.93 min Scan# 1334  
Delta R.T. -0.02 min  
Lab File: BG041148.D  
Acq: 9 Jun 2019 1:38

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 173464   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.6  | 9.5 14.3 |
| 54          | 8.9   | 7.6 11.4 |
| 68          | 5.0   | 3.9 5.9  |

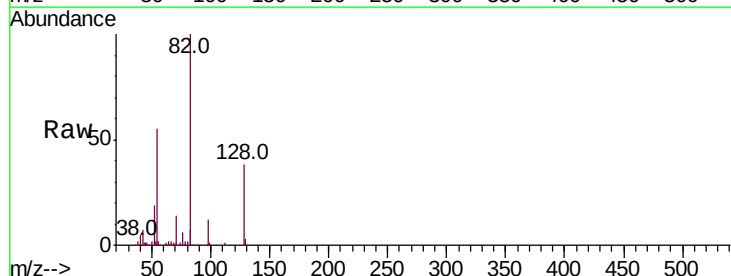


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

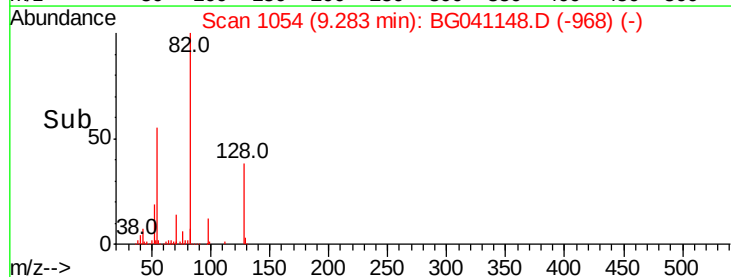
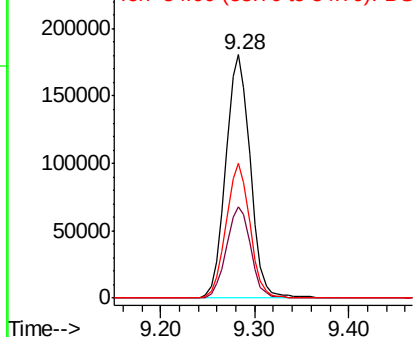


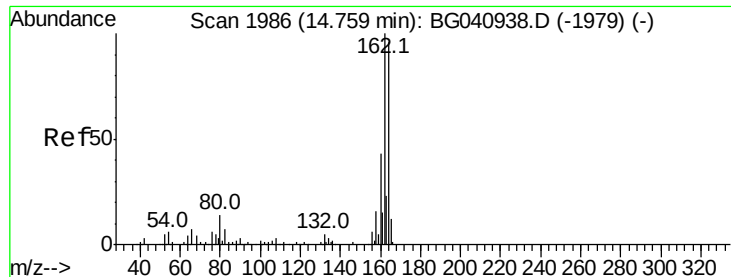
#23  
Nitrobenzene-d5  
Concen: 83.664 ng  
RT: 9.28 min Scan# 1054  
Delta R.T. -0.02 min  
Lab File: BG041148.D  
Acq: 9 Jun 2019 1:38

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 326908    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 37.7  | 30.5 45.7 |
| 54          | 55.2  | 44.6 66.8 |



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

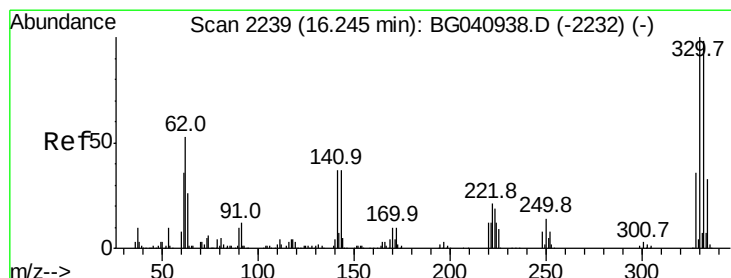
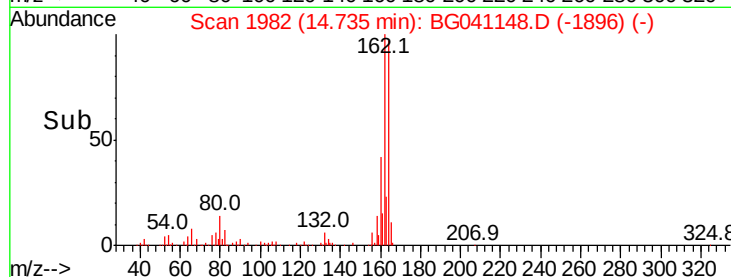
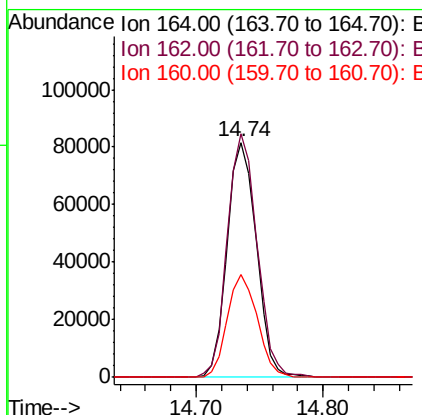
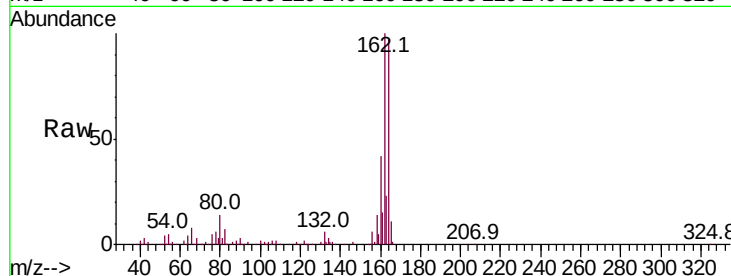




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.74 min Scan# 1982  
Delta R.T. -0.02 min  
Lab File: BG041148.D  
Acq: 9 Jun 2019 1:38

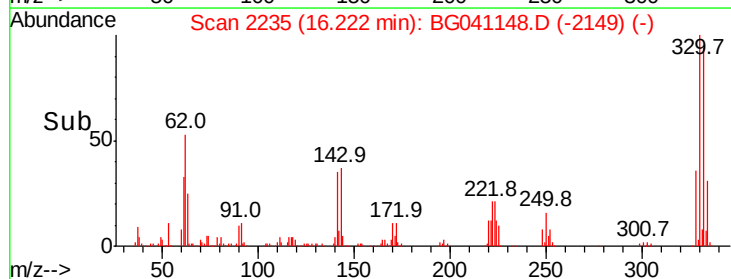
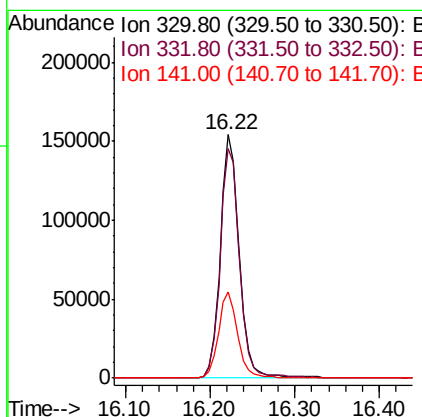
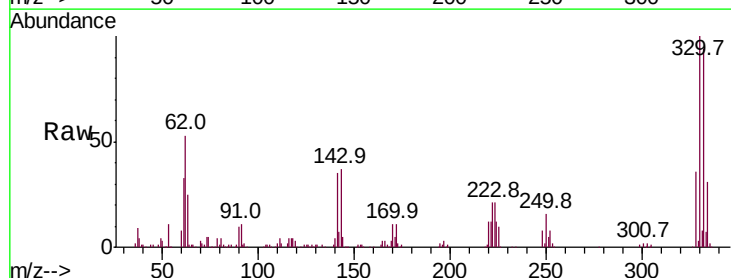
Instrument :  
BNA\_G  
ClientSampleId :

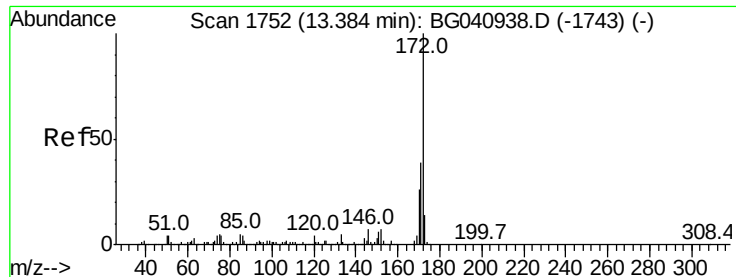
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.5 | 83.0  | 124.4 |
| 160     | 43.8  | 35.6  | 53.4  |



#42  
2,4,6-Tribromophenol  
Concen: 124.559 ng  
RT: 16.22 min Scan# 2235  
Delta R.T. -0.02 min  
Lab File: BG041148.D  
Acq: 9 Jun 2019 1:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.6  | 78.5  | 117.7 |
| 141     | 36.0  | 28.7  | 43.1  |

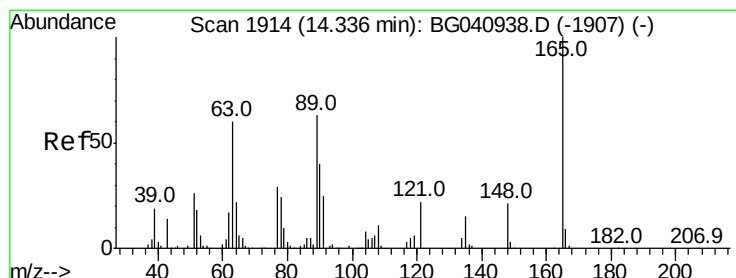
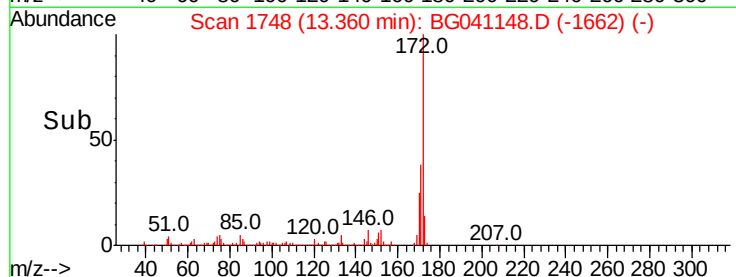
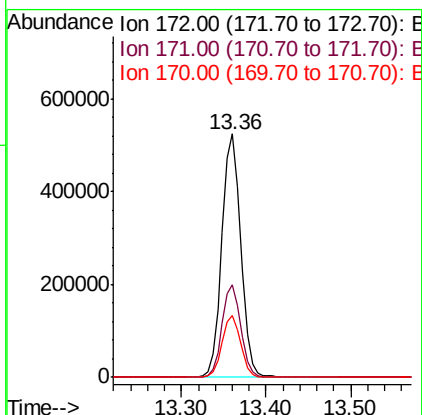
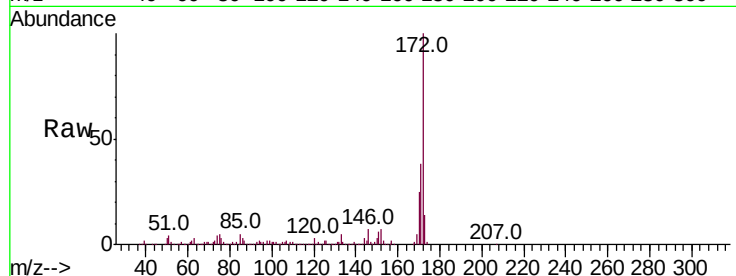




#45  
2-Fluorobiphenyl  
Concen: 90.400 ng  
RT: 13.36 min Scan# 1748  
Delta R.T. -0.02 min  
Lab File: BG041148.D  
Acq: 9 Jun 2019 1:38

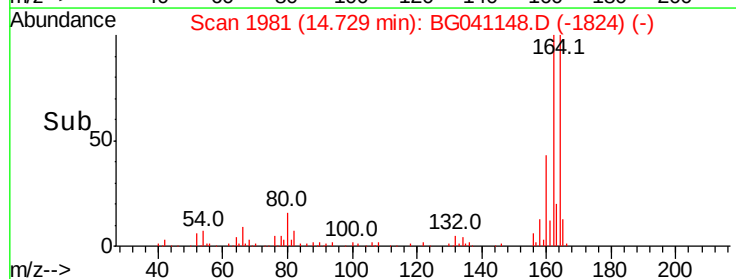
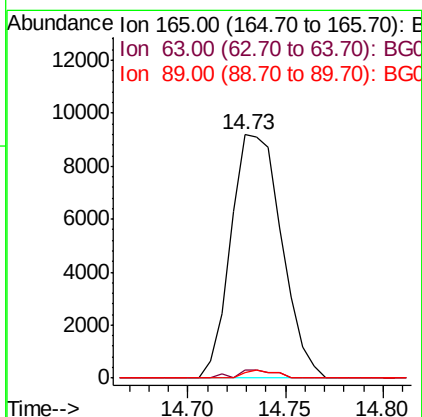
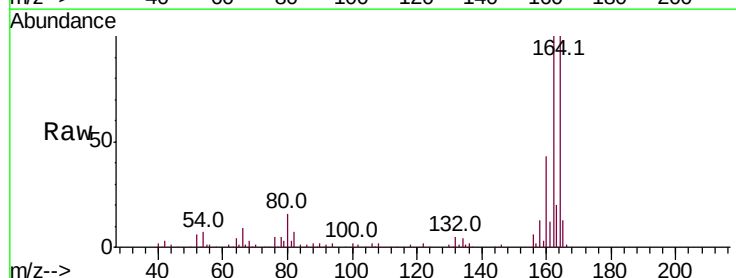
Instrument :  
BNA\_G  
ClientSampleId :

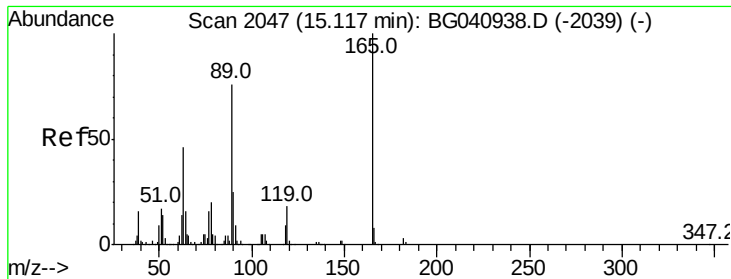
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.2  | 31.1  | 46.7  |
| 170     | 25.3  | 20.5  | 30.7  |



#51  
2,6-Dinitrotoluene  
Concen: 6.948 ng  
RT: 14.73 min Scan# 1981  
Delta R.T. 0.39 min  
Lab File: BG041148.D  
Acq: 9 Jun 2019 1:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 3.1   | 53.6  | 80.4# |
| 89      | 2.4   | 50.4  | 75.6# |





#57

2,4-Dinitrotoluene

Concen: 4.919 ng

RT: 14.73 min Scan# 1981

Delta R.T. -0.39 min

Lab File: BG041148.D

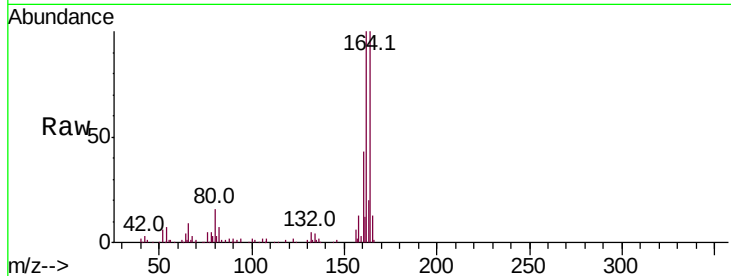
Acq: 9 Jun 2019 1:38

Instrument :

BNA\_G

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 16477      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 3.1   | 37.3 55.9# |
| 89          | 2.4   | 61.0 91.6# |
| 182         | 0.0   | 2.2 3.2#   |

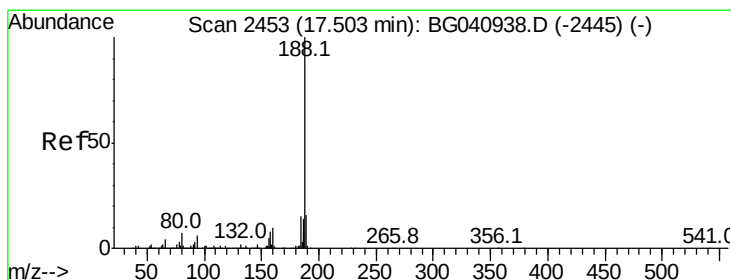
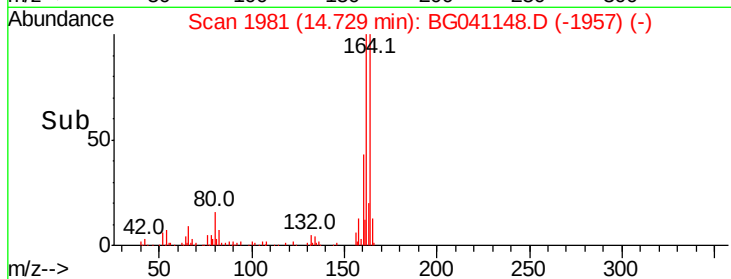
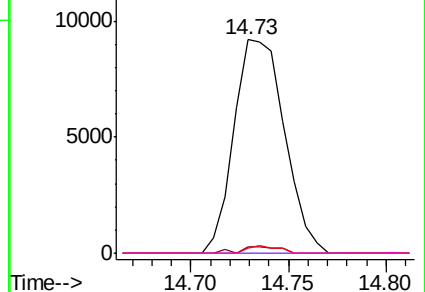


Abundance Ion 165.00 (164.70 to 165.70): E

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



#64

Phenanthrene-d10

Concen: 20.000 ng

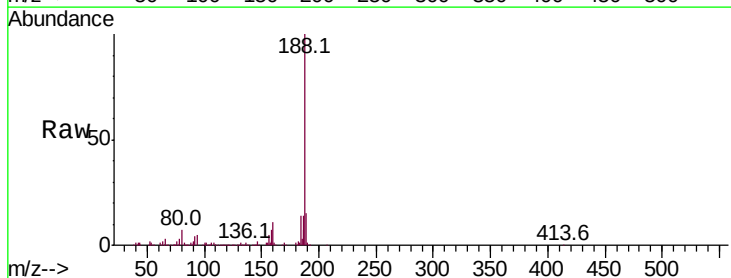
RT: 17.48 min Scan# 2449

Delta R.T. -0.02 min

Lab File: BG041148.D

Acq: 9 Jun 2019 1:38

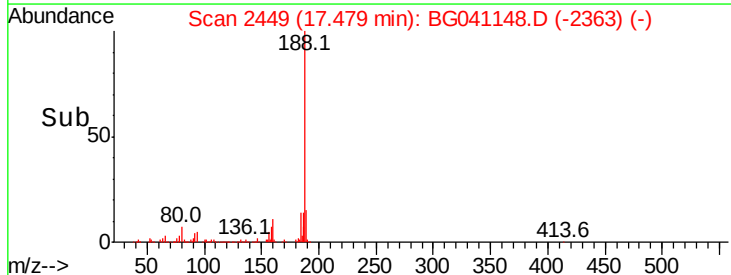
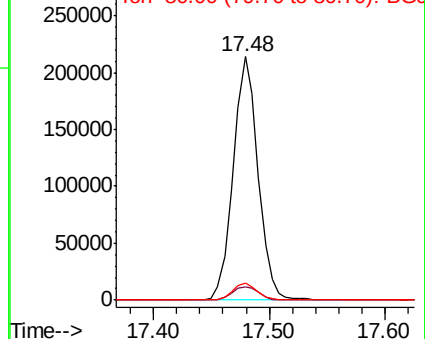
|             |       |         |
|-------------|-------|---------|
| Tgt Ion:188 | Resp: | 318677  |
| Ion Ratio   | Lower | Upper   |
| 188         | 100   |         |
| 94          | 5.2   | 4.7 7.1 |
| 80          | 7.1   | 5.8 8.8 |



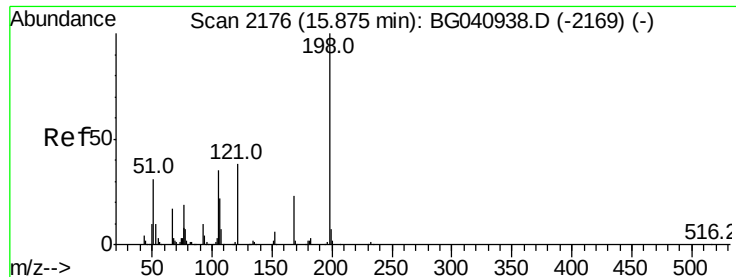
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC







#65

4,6-Dinitro-2-methylphenol

Concen: 8.792 ng

RT: 16.22 min Scan# 2234

Delta R.T. 0.34 min

Lab File: BG041148.D

Acq: 9 Jun 2019 1:38

Instrument :

BNA\_G

ClientSampled :

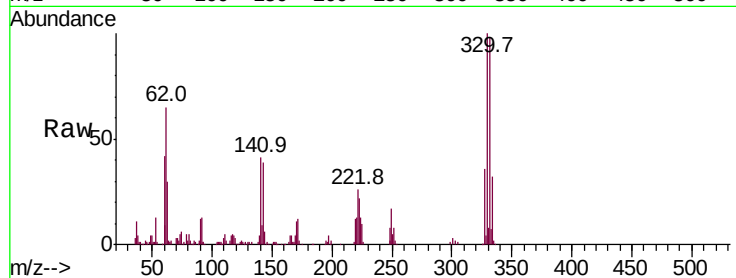
Tot Ion:198 Resp: 421

Ion Ratio Lower Upper

198 100

51 138.0 21.6 61.6#

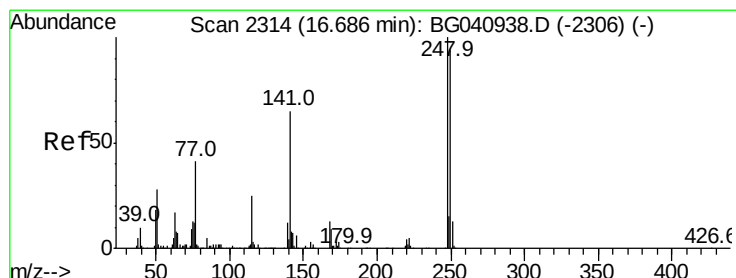
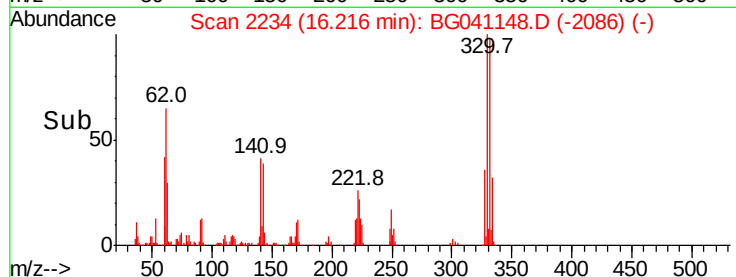
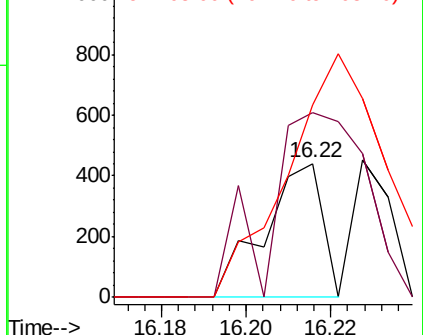
105 143.9 17.5 57.5#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG0

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 4.330 ng

RT: 16.22 min Scan# 2235

Delta R.T. -0.46 min

Lab File: BG041148.D

Acq: 9 Jun 2019 1:38

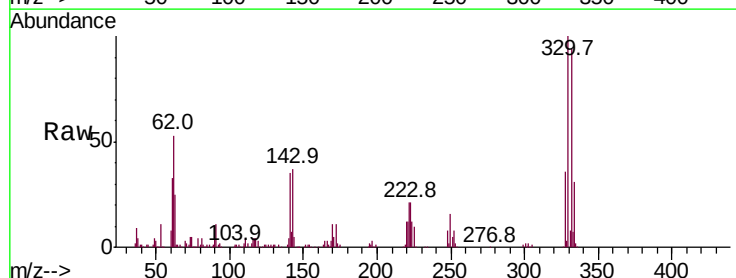
Tgt Ion:248 Resp: 18622

Ion Ratio Lower Upper

248 100

250 192.4 75.0 112.4#

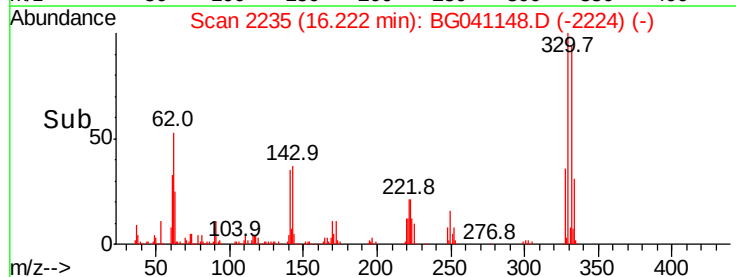
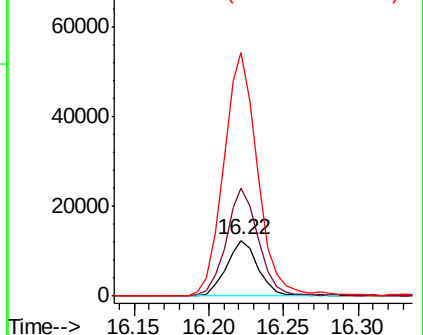
141 435.7 52.4 78.6#

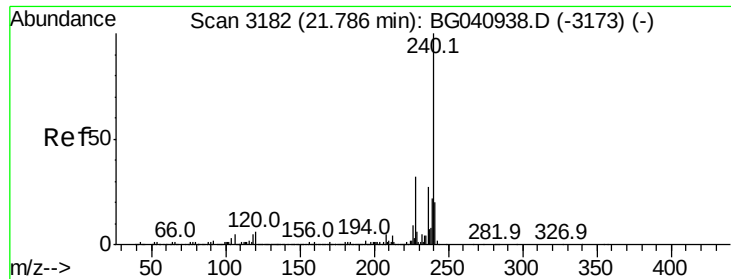


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

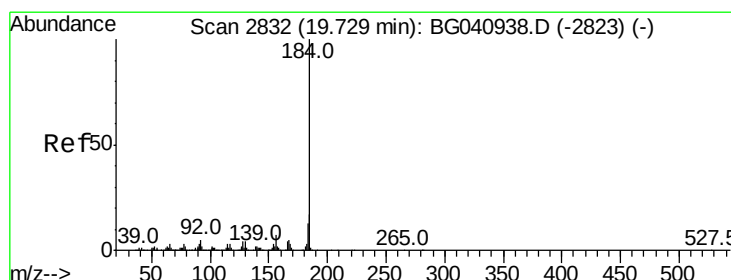
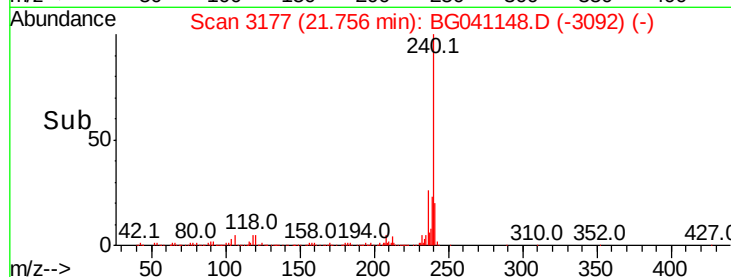
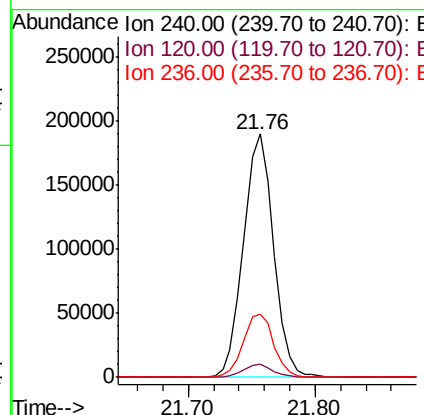
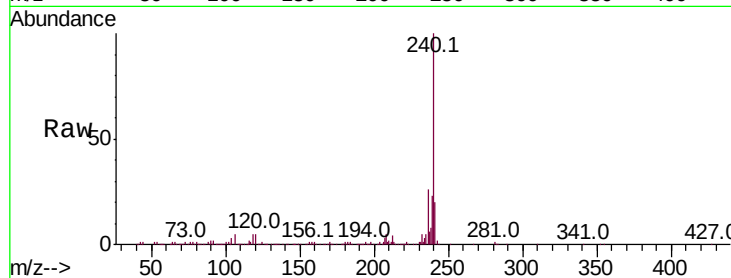




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.76 min Scan# 3177  
 Delta R.T. -0.03 min  
 Lab File: BG041148.D  
 Acq: 9 Jun 2019 1:38

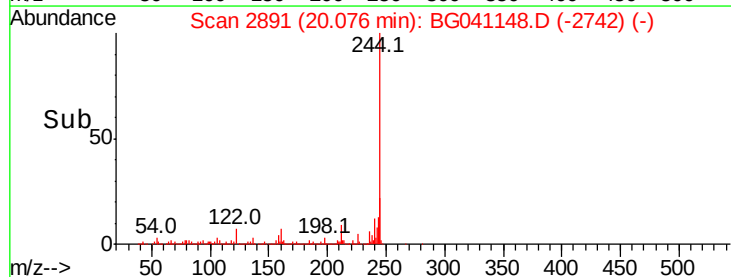
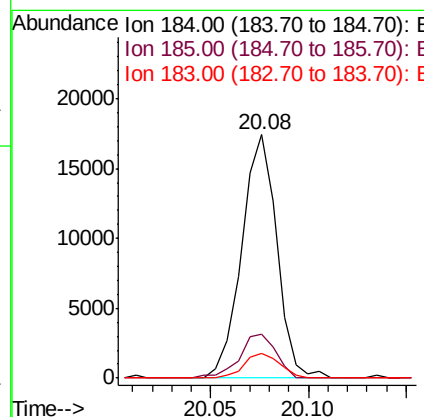
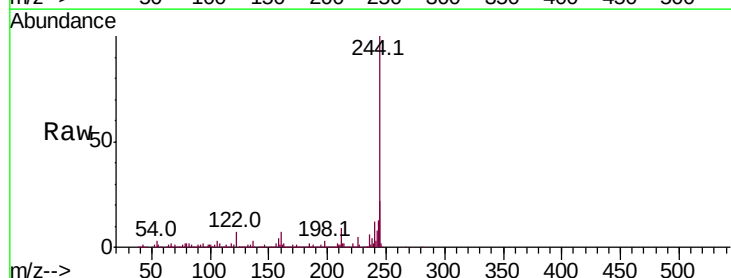
Instrument :  
 BNA\_G  
 ClientSampled :

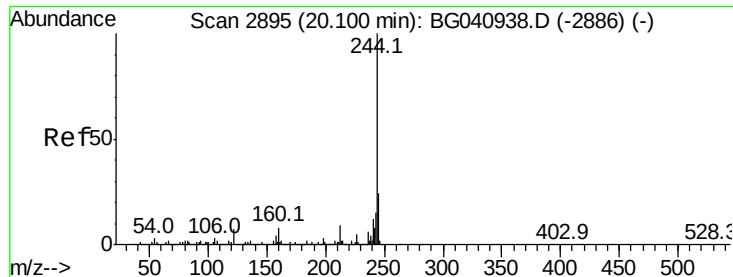
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 5.5   | 4.5   | 6.7   |
| 236     | 25.7  | 21.3  | 31.9  |



#77  
 Benzidine  
 Concen: 2.912 ng  
 RT: 20.08 min Scan# 2891  
 Delta R.T. 0.35 min  
 Lab File: BG041148.D  
 Acq: 9 Jun 2019 1:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 18.2  | 13.3  | 19.9  |
| 183     | 10.4  | 10.7  | 16.1# |





#79

Terphenyl-d14

Concen: 91.742 ng

RT: 20.08 min Scan# 2891

Delta R.T. -0.02 min

Lab File: BG041148.D

Acq: 9 Jun 2019 1:38

Instrument :

BNA\_G

ClientSampled :

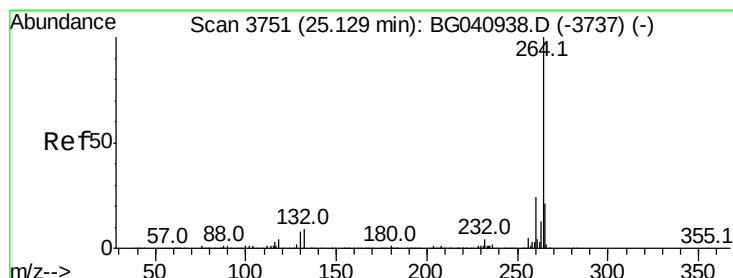
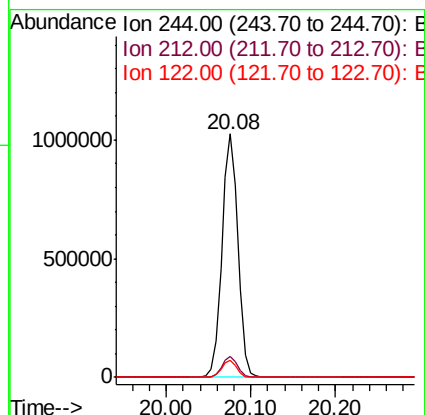
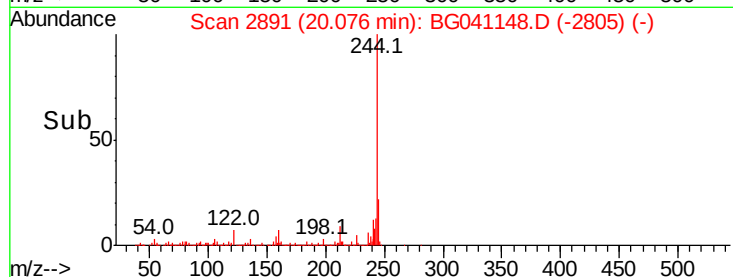
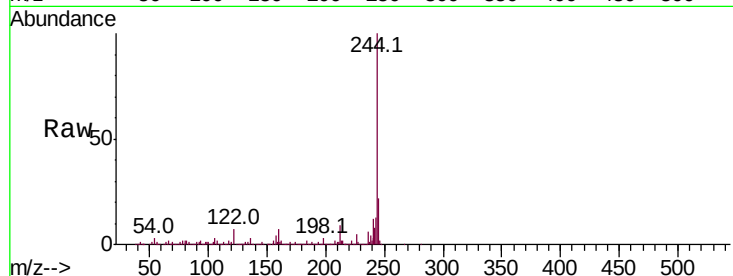
Tot Ion:244 Resp: 1349926

Ion Ratio Lower Upper

244 100

212 8.8 7.0 10.4

122 6.9 5.4 8.0



#87

Perylene-d12

Concen: 20.000 ng

RT: 25.08 min Scan# 3743

Delta R.T. -0.05 min

Lab File: BG041148.D

Acq: 9 Jun 2019 1:38

Tgt Ion:264 Resp: 330303

Ion Ratio Lower Upper

264 100

260 24.4 19.0 28.4

265 21.1 17.0 25.4

