

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082019\  
 Data File : BG042365.D  
 Acq On : 20 Aug 2019 19:57  
 Operator : HP/JU  
 Sample : PB122401TB  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 21 04:29:56 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG081919.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Aug 19 13:40:37 2019  
 Response via : Initial Calibration

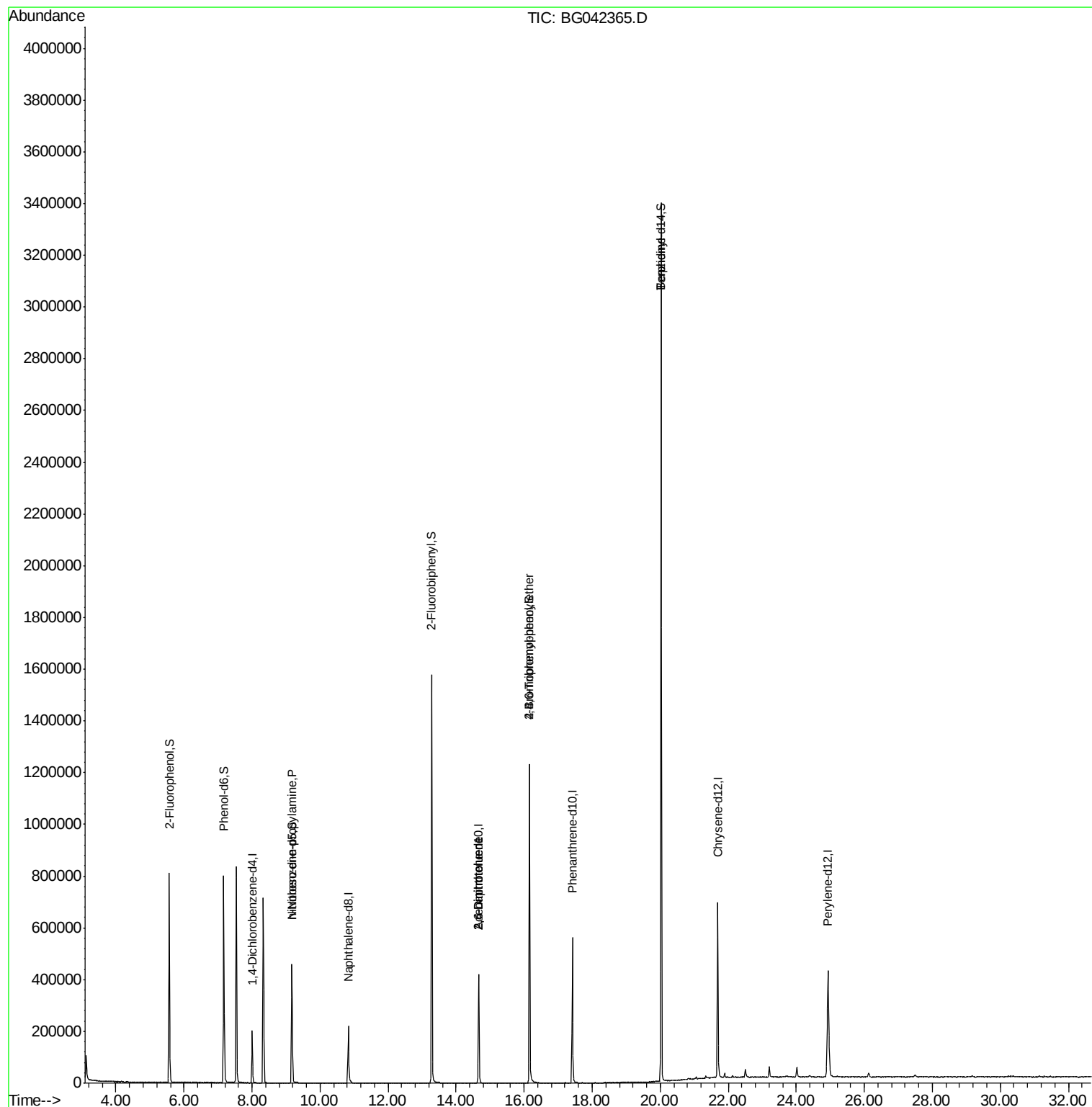
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.01  | 152  | 66492    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.83 | 136  | 246600   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.66 | 164  | 176991   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.42 | 188  | 416598   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.69 | 240  | 443040   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 24.93 | 264  | 504123   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.57  | 112  | 416896   | 127.03 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.17  | 99   | 550304   | 123.47 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.17  | 82   | 310261   | 88.49  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.15 | 330  | 302816   | 125.62 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.28 | 172  | 962929   | 92.06  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.03 | 244  | 1764259  | 87.22  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.17  | 70   | 39426    | 13.753 | ng    | # 72     |
| 51) 2,6-Dinitrotoluene         | 14.66 | 165  | 22816    | 7.751  | ng    | # 38     |
| 57) 2,4-Dinitrotoluene         | 14.66 | 165  | 22816    | 5.544  | ng    | # 36     |
| 67) 4-Bromophenyl-phenylether  | 16.15 | 248  | 21543    | 4.064  | ng    | # 1      |
| 77) Benzidine                  | 20.03 | 184  | 24795    | 2.111  | ng    | # 91     |

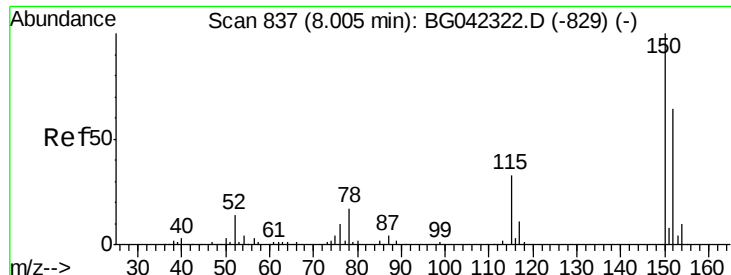
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG082019\  
Data File : BG042365.D  
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Sample : PB122401TB  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Aug 21 04:29:56 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG081919.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Aug 19 13:40:37 2019  
Response via : Initial Calibration



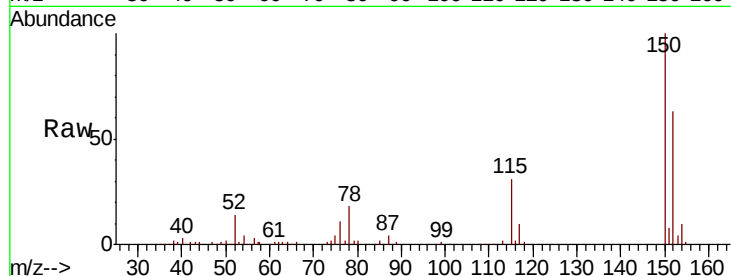


#1

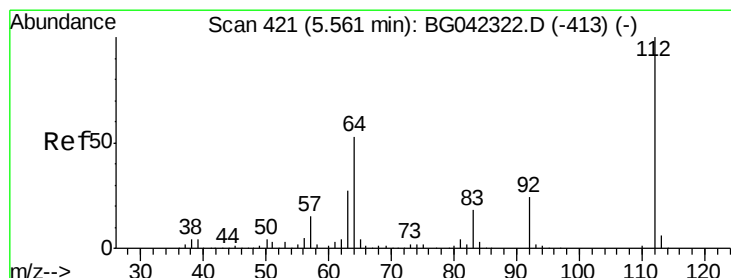
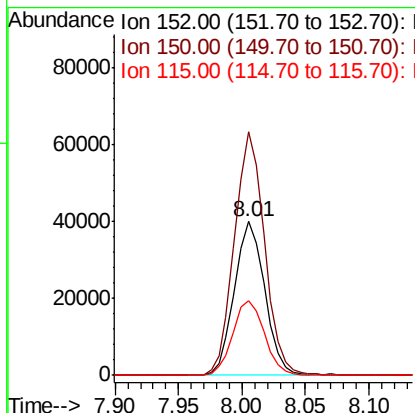
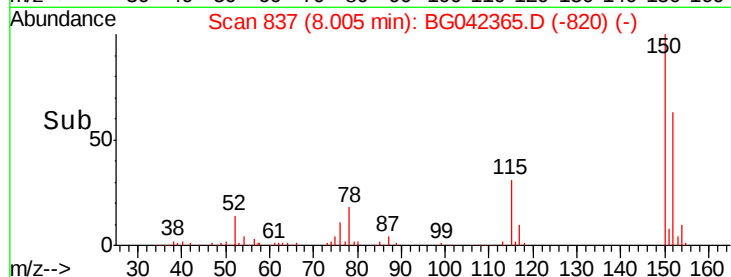
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.01 min Scan# 837  
Delta R.T. -0.00 min  
Lab File: BG042365.D  
Acq: 20 Aug 2019 19:57

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.2 | 124.3 | 186.5 |
| 115     | 48.3  | 40.5  | 60.7  |



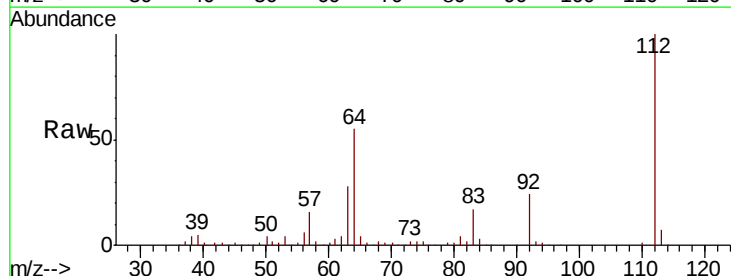
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



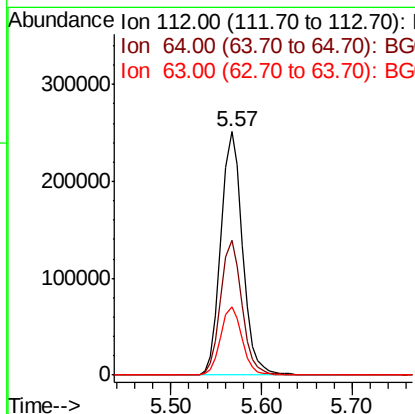
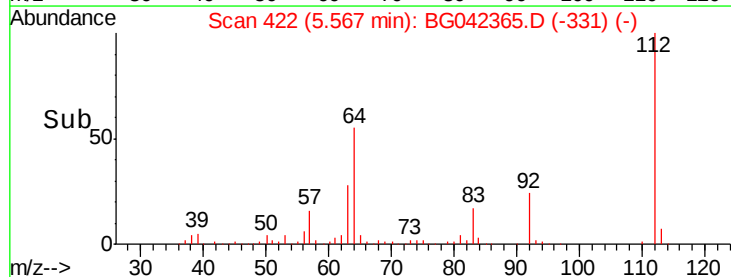
#5

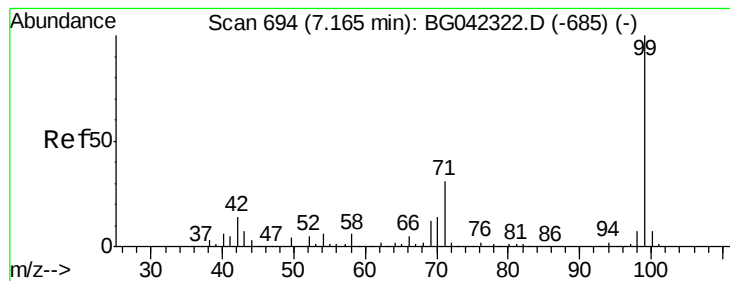
2-Fluorophenol  
Concen: 127.033 ng  
RT: 5.57 min Scan# 422  
Delta R.T. 0.01 min  
Lab File: BG042365.D  
Acq: 20 Aug 2019 19:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.2  | 42.5  | 63.7  |
| 63      | 27.8  | 21.7  | 32.5  |



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: 123.468 ng

RT: 7.17 min Scan# 695

Delta R.T. 0.01 min

Lab File: BG042365.D

Acq: 20 Aug 2019 19:57

Instrument :

BNA\_G

ClientSampleId :

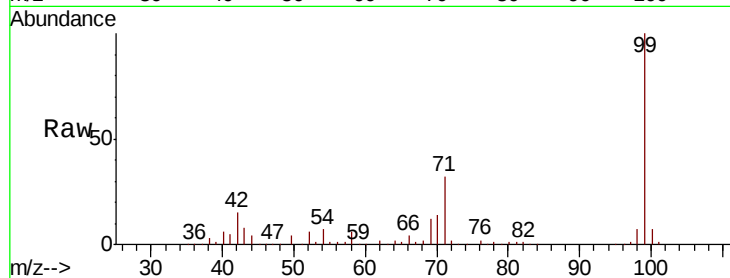
Tot Ion: 99 Resp: 550304

Ion Ratio Lower Upper

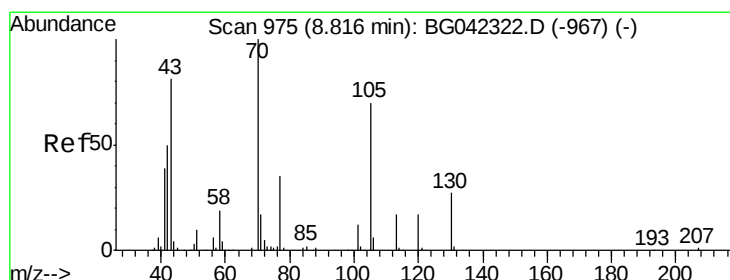
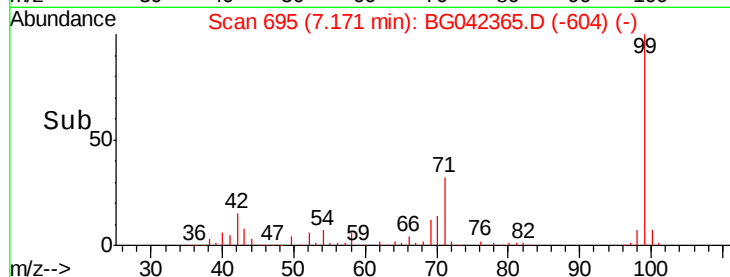
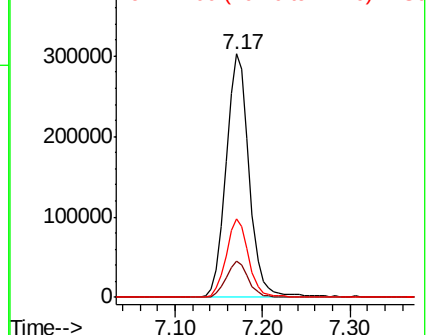
99 100

42 15.0 11.4 17.0

71 32.4 25.1 37.7



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: 13.753 ng

RT: 9.17 min Scan# 1036

Delta R.T. 0.36 min

Lab File: BG042365.D

Acq: 20 Aug 2019 19:57

Tgt Ion: 70 Resp: 39426

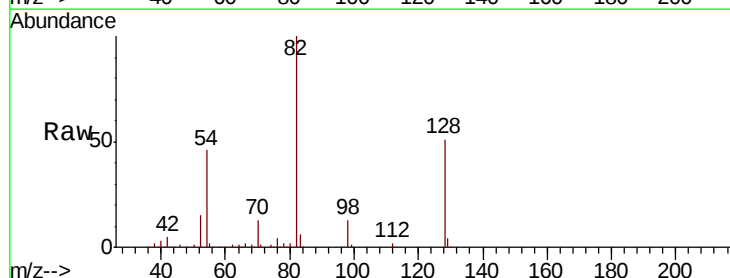
Ion Ratio Lower Upper

70 100

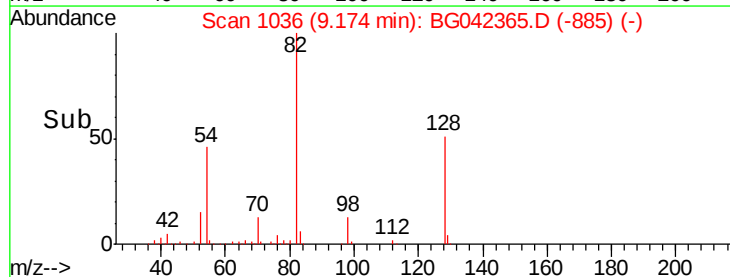
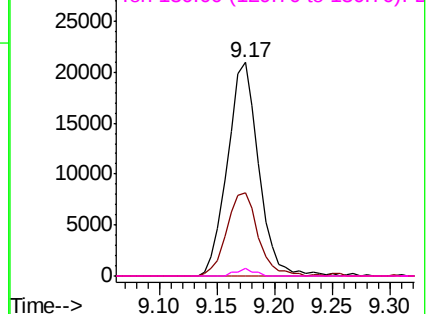
42 38.8 40.5 60.7#

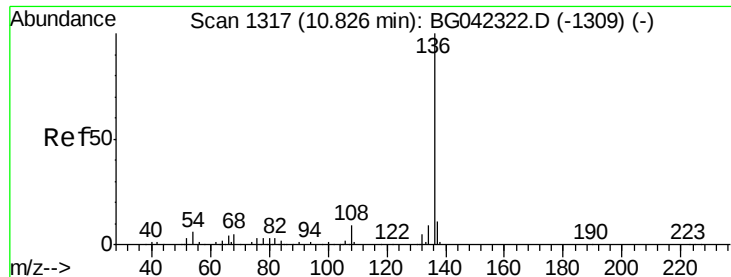
101 0.0 9.3 13.9#

130 3.3 22.0 33.0#



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

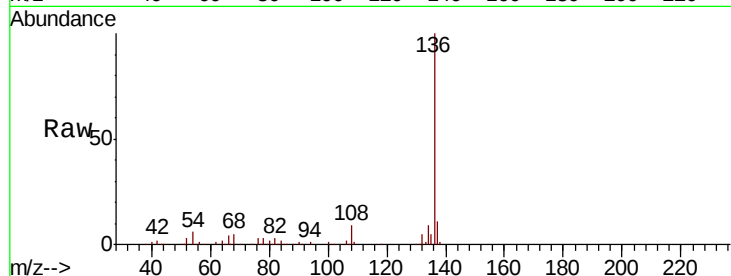




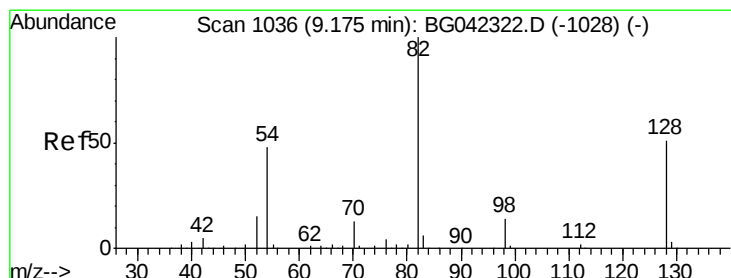
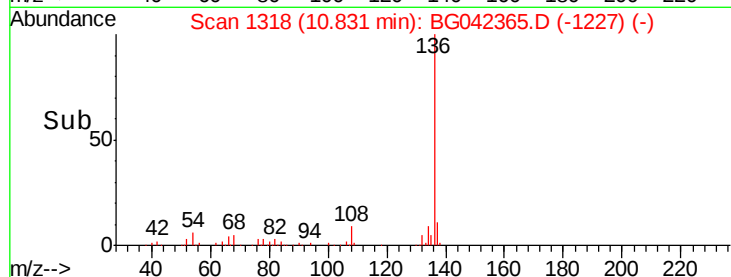
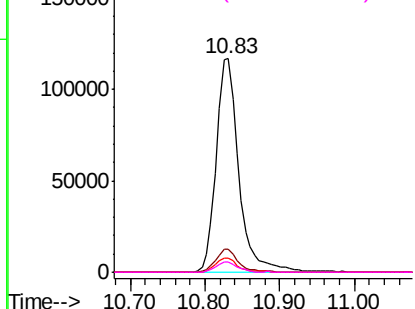
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.83 min Scan# 1318  
Delta R.T. 0.01 min  
Lab File: BG042365.D  
Acq: 20 Aug 2019 19:57

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 246600      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.9  | 8.4 12.6    |
| 54          | 6.4   | 5.0 7.4     |
| 68          | 4.8   | 3.8 5.8     |

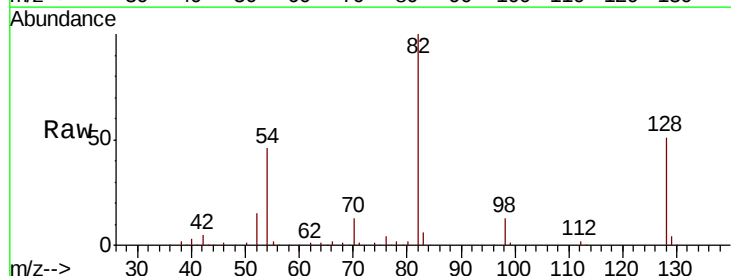


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

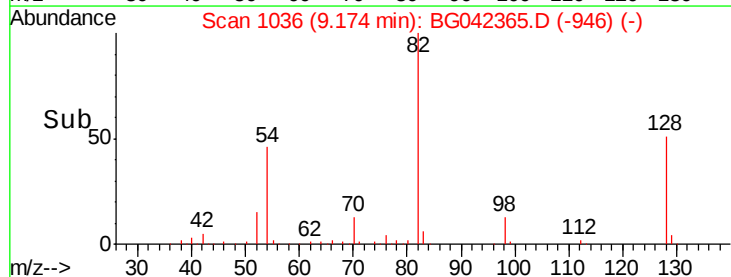
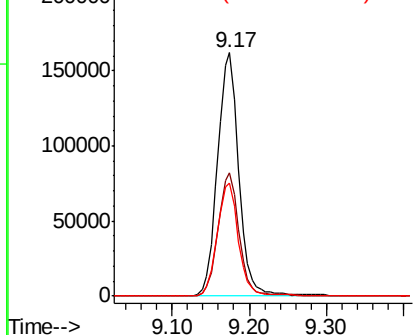


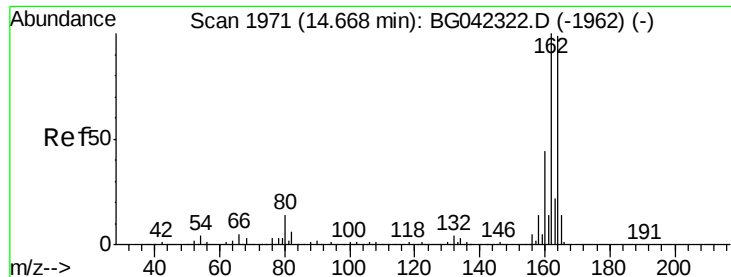
#23  
Nitrobenzene-d5  
Concen: 88.490 ng  
RT: 9.17 min Scan# 1036  
Delta R.T. -0.00 min  
Lab File: BG042365.D  
Acq: 20 Aug 2019 19:57

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 310261      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 50.5  | 41.0 61.4   |
| 54          | 46.5  | 38.0 57.0   |



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

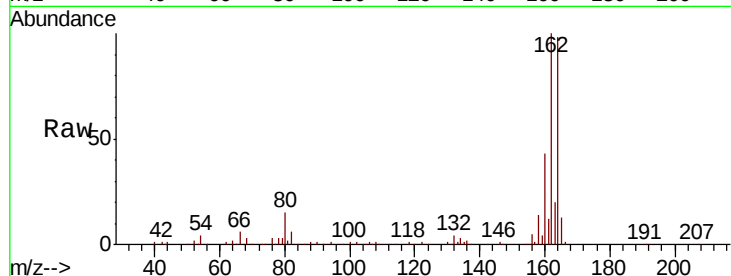




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.66 min Scan# 1970  
Delta R.T. -0.01 min  
Lab File: BG042365.D  
Acq: 20 Aug 2019 19:57

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.8 | 80.6  | 120.8 |
| 160     | 43.7  | 35.7  | 53.5  |

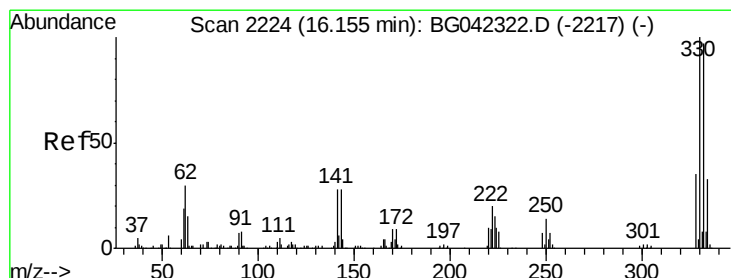
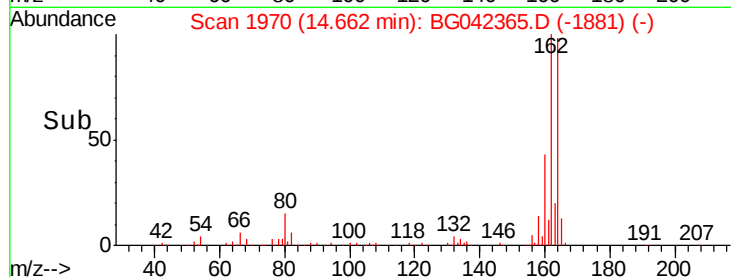
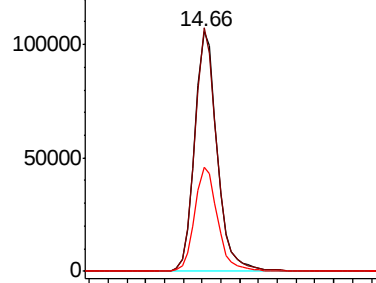


Abundance

Ion 164.00 (163.70 to 164.70): E

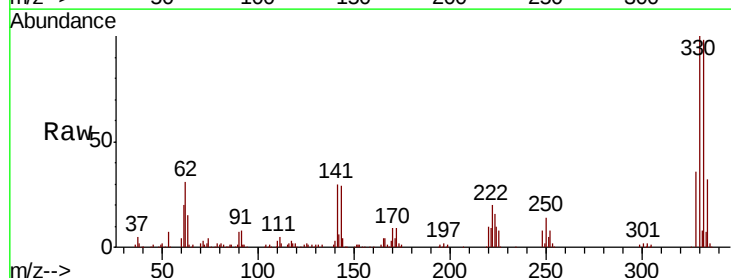
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42  
2,4,6-Tribromophenol  
Concen: 125.620 ng  
RT: 16.15 min Scan# 2224  
Delta R.T. -0.00 min  
Lab File: BG042365.D  
Acq: 20 Aug 2019 19:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.0  | 76.9  | 115.3 |
| 141     | 29.0  | 21.8  | 32.6  |

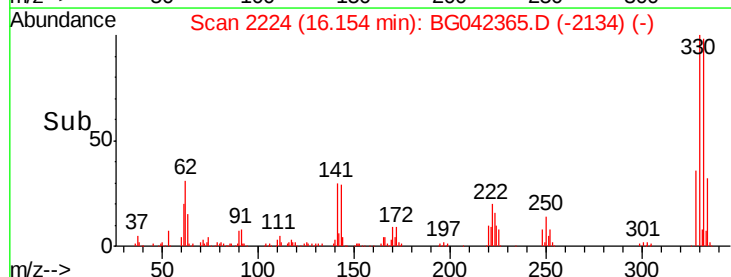
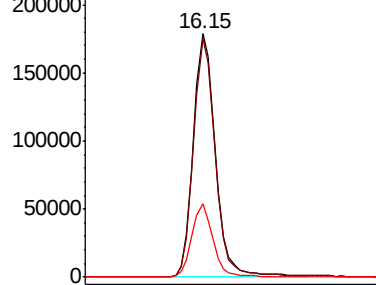


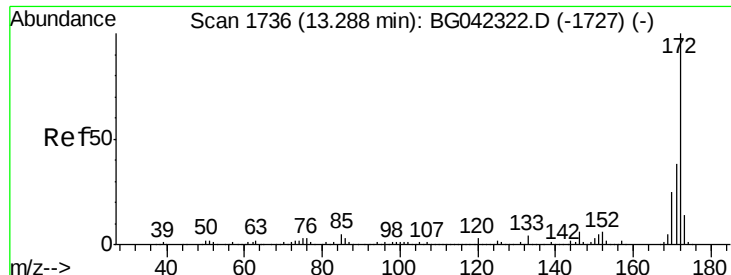
Abundance

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

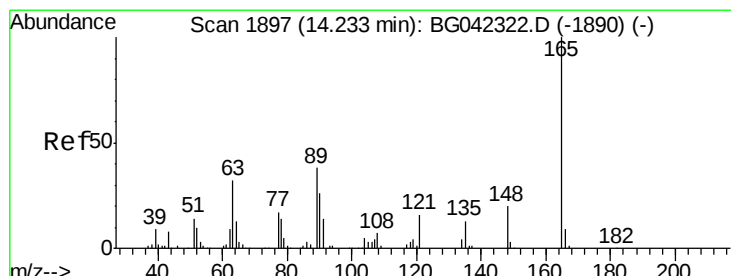
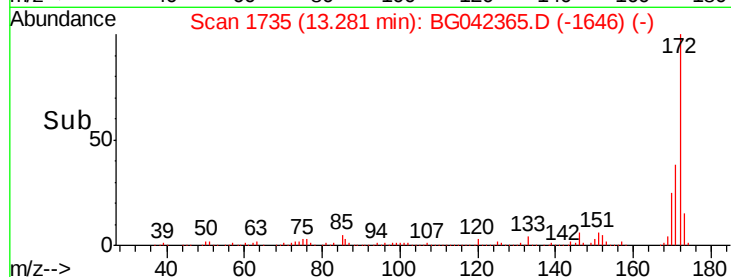
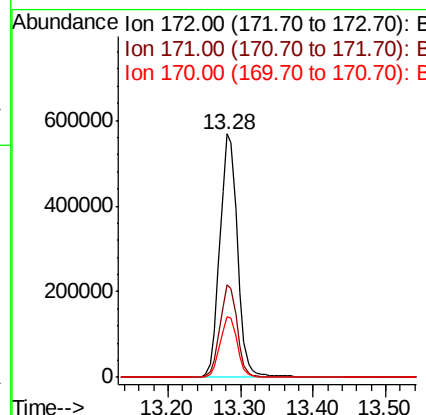
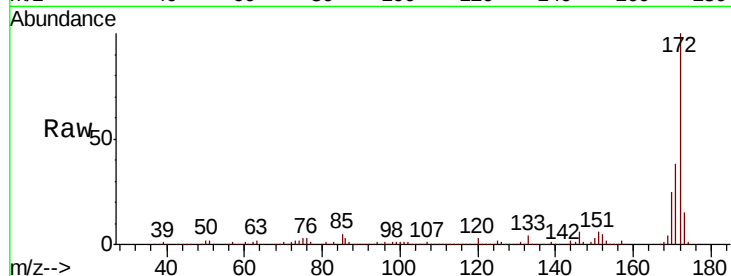




#45  
 2-Fluorobiphenyl  
 Concen: 92.063 ng  
 RT: 13.28 min Scan# 1735  
 Delta R.T. -0.01 min  
 Lab File: BG042365.D  
 Acq: 20 Aug 2019 19:57

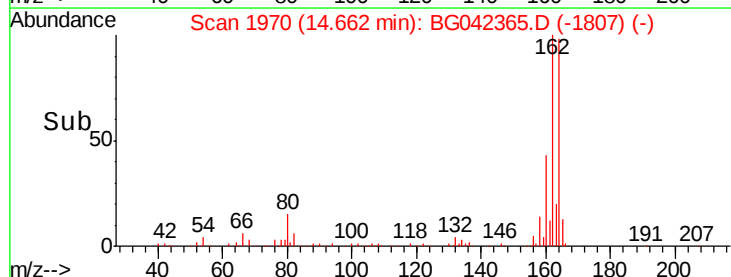
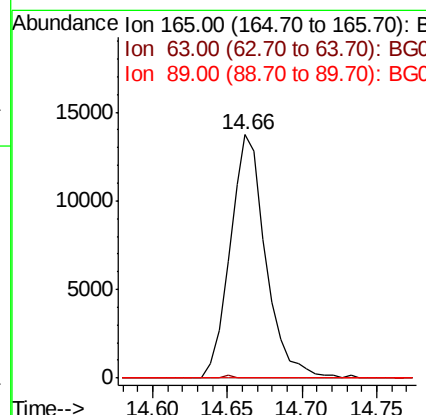
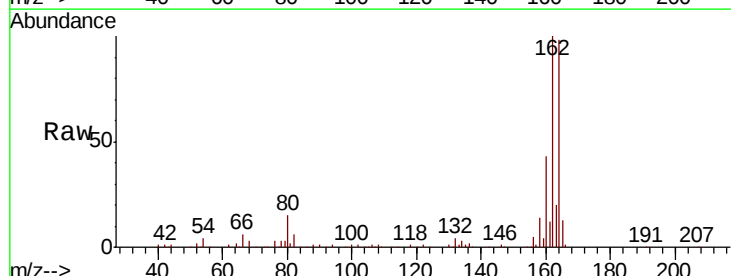
Instrument :  
 BNA\_G  
 ClientSampleId :

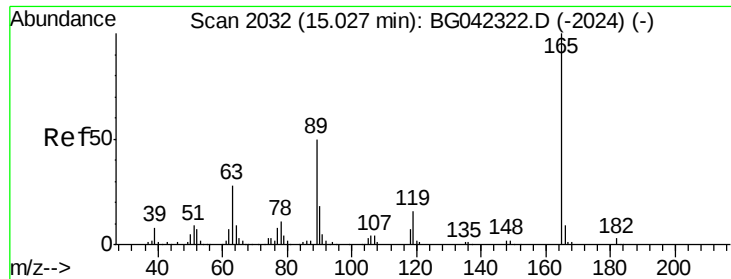
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.8  | 30.3  | 45.5  |
| 170     | 24.8  | 20.0  | 30.0  |



#51  
 2,6-Dinitrotoluene  
 Concen: 7.751 ng  
 RT: 14.66 min Scan# 1970  
 Delta R.T. 0.43 min  
 Lab File: BG042365.D  
 Acq: 20 Aug 2019 19:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 28.2  | 42.2# |
| 89      | 0.0   | 30.0  | 45.0# |

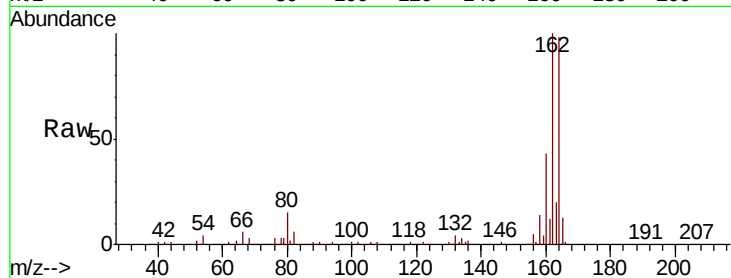




#57  
 2,4-Dinitrotoluene  
 Concen: 5.544 ng  
 RT: 14.66 min Scan# 1970  
 Delta R.T. -0.36 min  
 Lab File: BG042365.D  
 Acq: 20 Aug 2019 19:57

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 22.4  | 33.6# |
| 89      | 0.0   | 40.2  | 60.2# |
| 182     | 0.0   | 2.6   | 3.8#  |



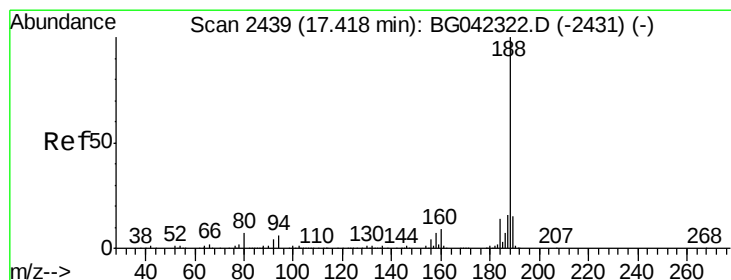
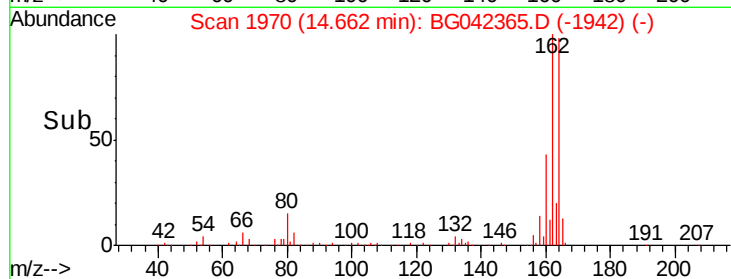
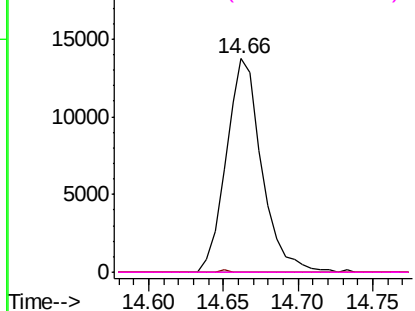
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

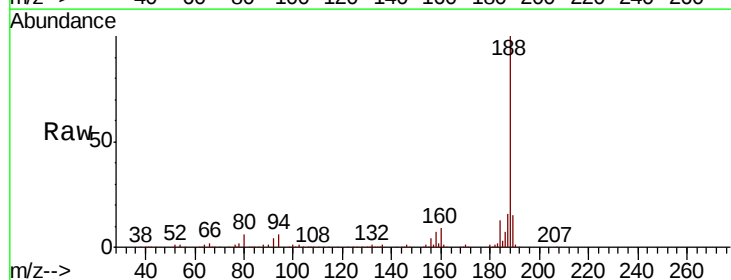
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.42 min Scan# 2439  
 Delta R.T. -0.00 min  
 Lab File: BG042365.D  
 Acq: 20 Aug 2019 19:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 6.1   | 4.9   | 7.3   |
| 80      | 6.2   | 5.4   | 8.0   |

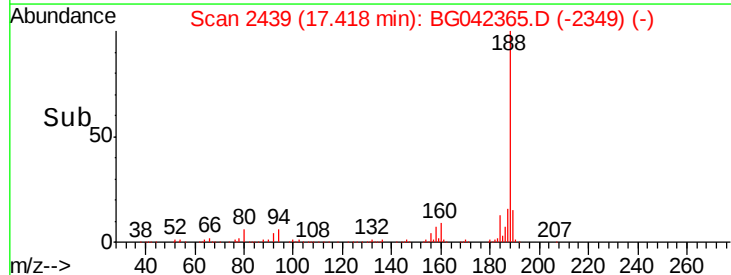
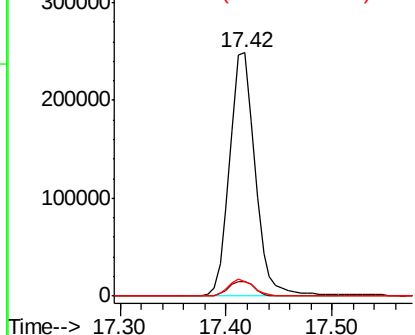


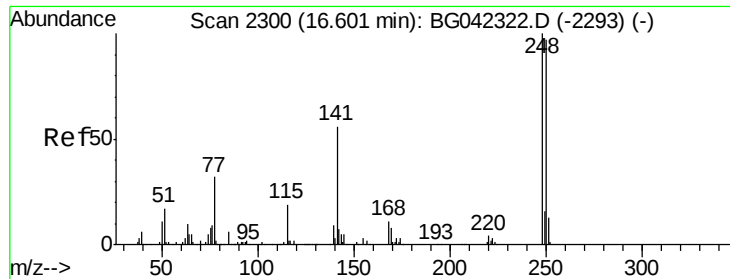
Abundance

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

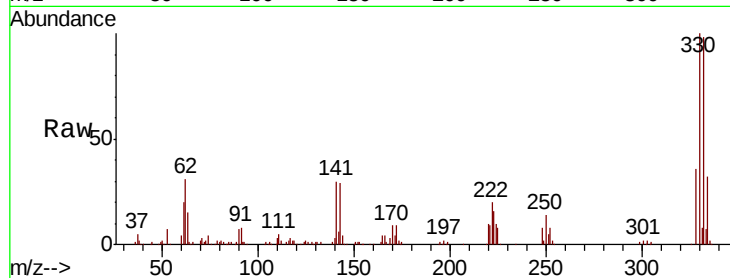




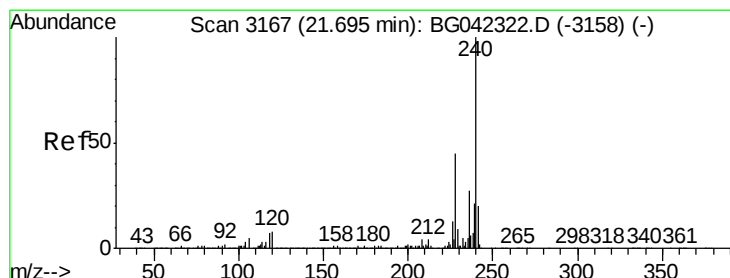
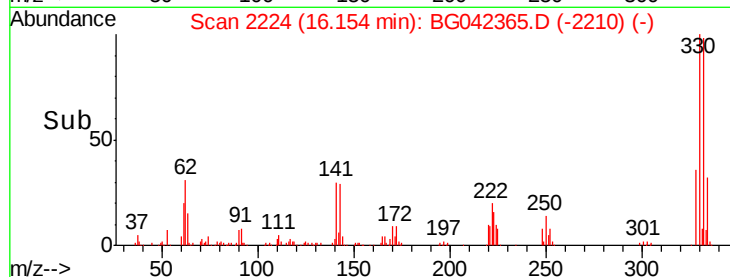
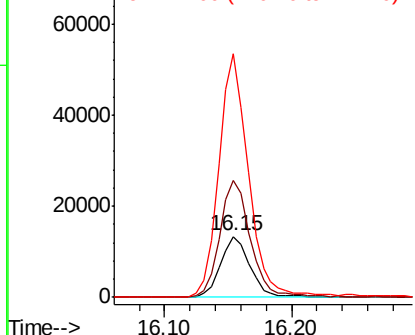
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.064 ng  
 RT: 16.15 min Scan# 2224  
 Delta R.T. -0.45 min  
 Lab File: BG042365.D  
 Acq: 20 Aug 2019 19:57

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 21543  
 Ion Ratio Lower Upper  
 248 100  
 250 191.1 78.0 117.0#  
 141 398.2 44.9 67.3#

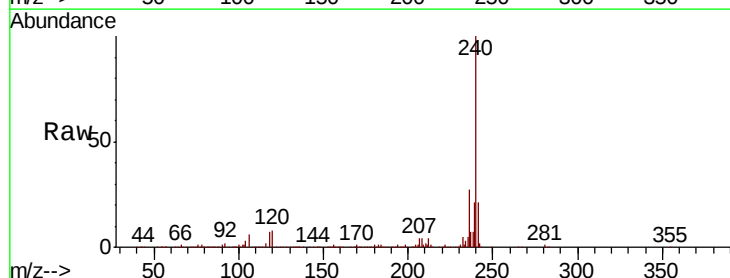


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

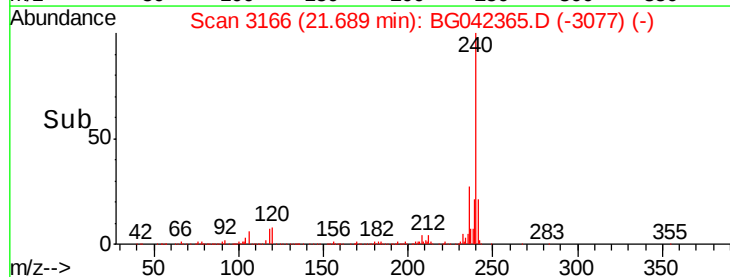
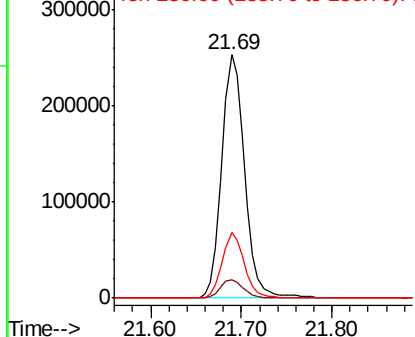


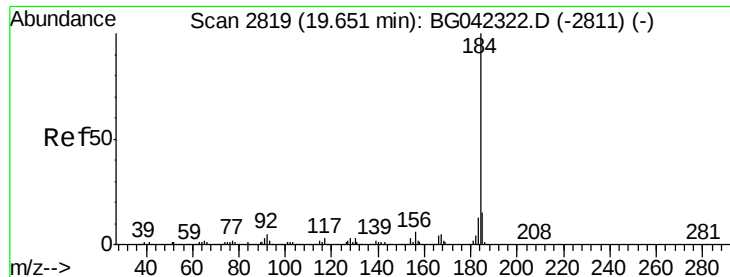
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.69 min Scan# 3166  
 Delta R.T. -0.01 min  
 Lab File: BG042365.D  
 Acq: 20 Aug 2019 19:57

Tgt Ion:240 Resp: 443040  
 Ion Ratio Lower Upper  
 240 100  
 120 7.8 6.0 9.0  
 236 26.7 21.6 32.4



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





#77

Benzidine

Concen: 2.111 ng

RT: 20.03 min Scan# 2883

Delta R.T. 0.38 min

Lab File: BG042365.D

Acq: 20 Aug 2019 19:57

Instrument :

BNA\_G

ClientSampleId :

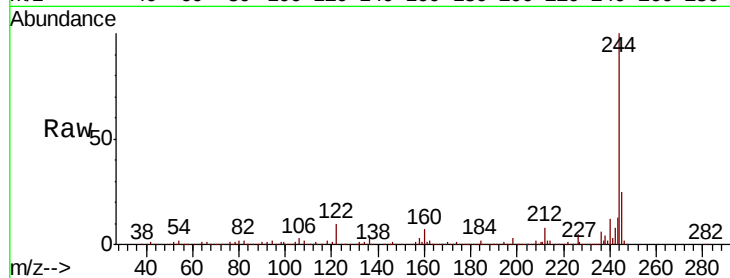
Tot Ion:184 Resp: 24795

Ion Ratio Lower Upper

184 100

185 15.9 11.8 17.6

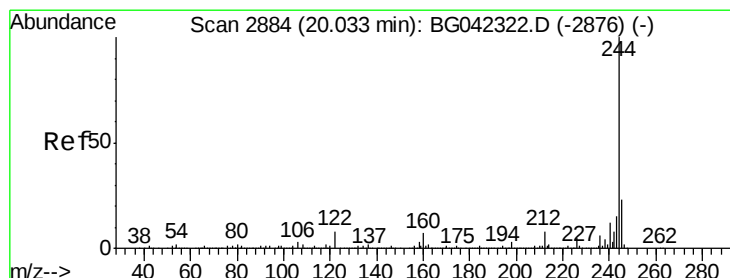
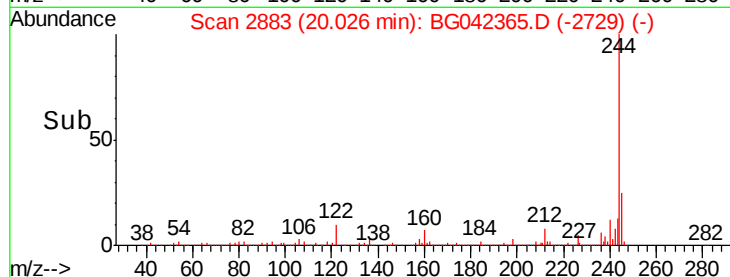
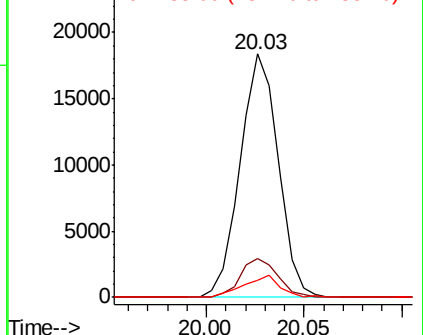
183 7.2 10.6 15.8#



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



#79

Terphenyl-d14

Concen: 87.221 ng

RT: 20.03 min Scan# 2883

Delta R.T. -0.01 min

Lab File: BG042365.D

Acq: 20 Aug 2019 19:57

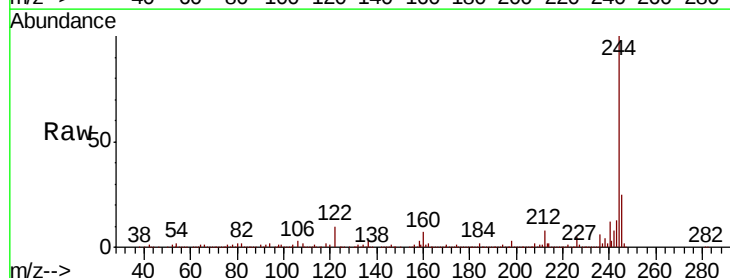
Tgt Ion:244 Resp: 1764259

Ion Ratio Lower Upper

244 100

212 8.1 6.4 9.6

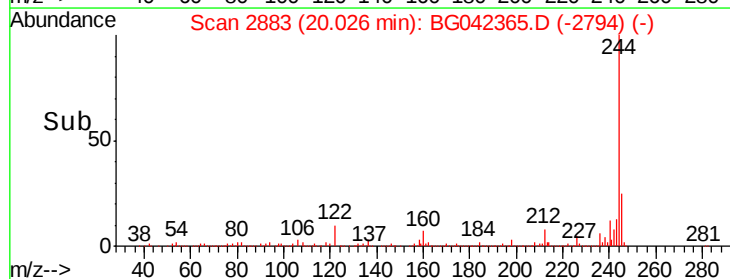
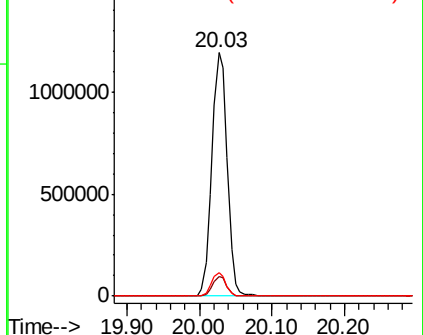
122 9.7 6.6 10.0

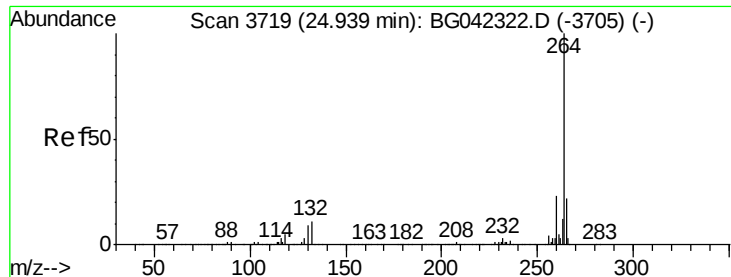


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 24.93 min Scan# 3718  
 Delta R.T. -0.01 min  
 Lab File: BG042365.D  
 Acq: 20 Aug 2019 19:57

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.3  | 18.4  | 27.6  |
| 265     | 21.5  | 17.4  | 26.0  |

