

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG100618\  
 Data File : BG037205.D  
 Acq On : 6 Oct 2018 1:33  
 Operator : JU/SJ  
 Sample : PB112566TB  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB113566TB

Quant Time: Oct 06 05:09:06 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG092018.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 24 10:41:23 2018  
 Response via : Initial Calibration

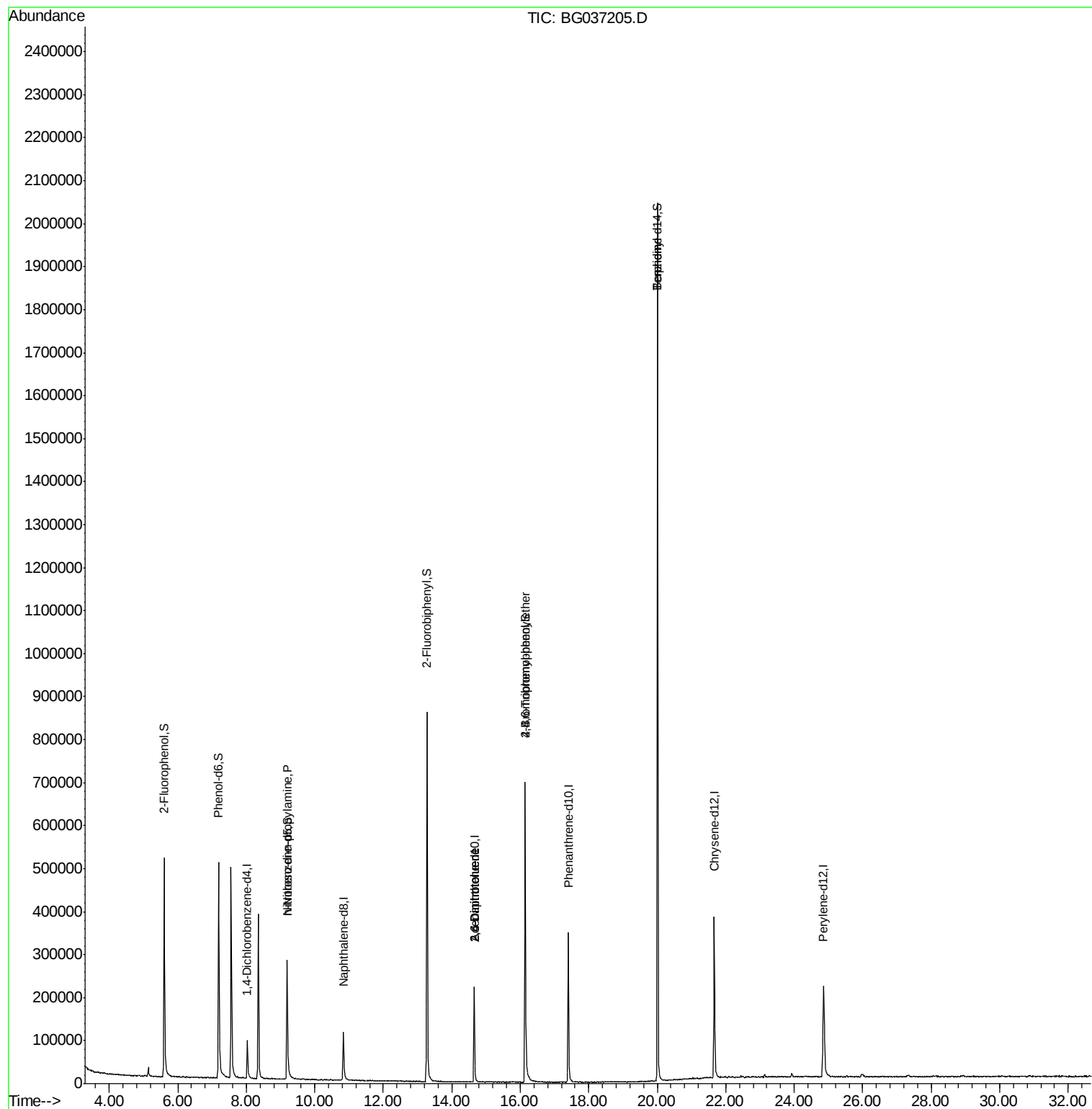
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.03  | 152  | 31085    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.83 | 136  | 125417   | 20.00  | ng    | -0.02    |
| 38) Acenaphthene-d10           | 14.66 | 164  | 87834    | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 17.40 | 188  | 260912   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12               | 21.67 | 240  | 270706   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 24.86 | 264  | 259514   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 243452   | 150.20 | ng    | -0.02    |
| 7) Phenol-d6                   | 7.20  | 99   | 339171   | 135.25 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 9.19  | 82   | 221498   | 94.58  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol       | 16.14 | 330  | 144015   | 137.04 | ng    | -0.02    |
| 44) 2-Fluorobiphenyl           | 13.28 | 172  | 504799   | 85.60  | ng    | -0.02    |
| 78) Terphenyl-d14              | 20.01 | 244  | 1044837  | 101.49 | ng    | -0.02    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.19  | 70   | 28180    | 13.508 | ng    | # 75     |
| 50) 2,6-Dinitrotoluene         | 14.66 | 165  | 11455    | 7.426  | ng    | # 22     |
| 56) 2,4-Dinitrotoluene         | 14.66 | 165  | 11455    | 5.322  | ng    | # 20     |
| 66) 4-Bromophenyl-phenylether  | 16.14 | 248  | 10277    | 3.463  | ng    | # 1      |
| 76) Benzidine                  | 20.01 | 184  | 17758    | 2.170  | ng    | # 97     |

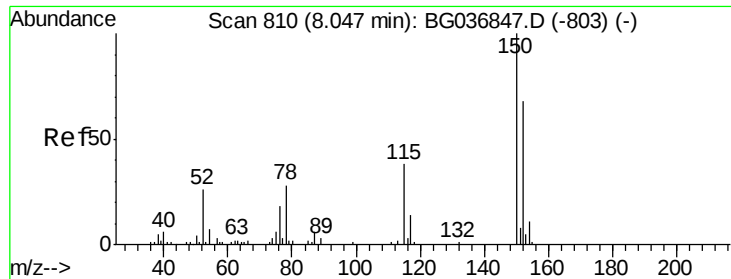
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : PB112566TB  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
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Quant Time: Oct 06 05:09:06 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG092018.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Sep 24 10:41:23 2018  
Response via : Initial Calibration



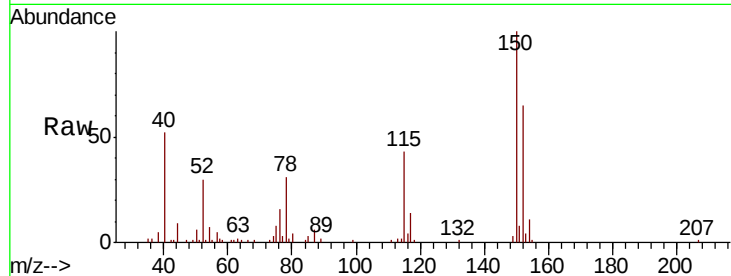


#1

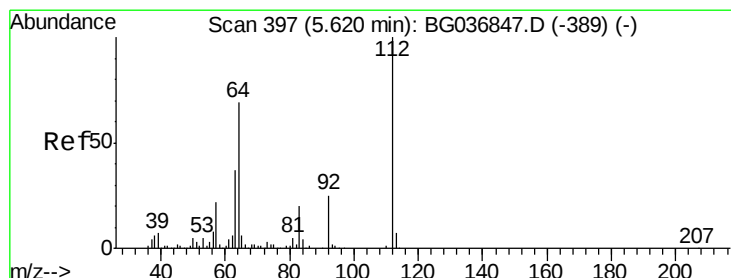
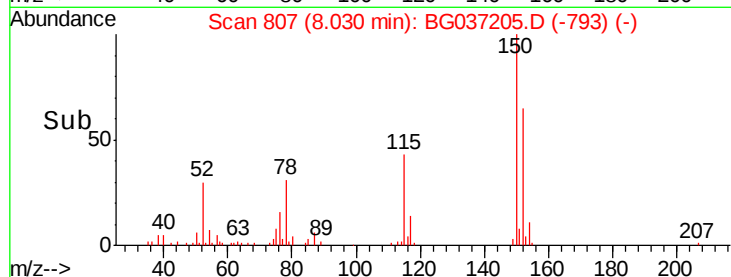
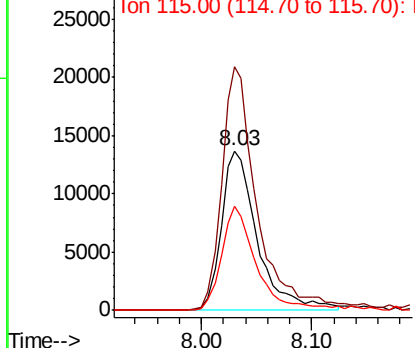
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.03 min Scan# 807  
 Delta R.T. -0.02 min  
 Lab File: BG037205.D  
 Acq: 6 Oct 2018 1:33

Instrument :  
 BNA\_G  
 ClientSampled :  
 PB113566TB

Tgt Ion:152 Resp: 31085  
 Ion Ratio Lower Upper  
 152 100  
 150 152.7 119.5 179.3  
 115 65.5 44.5 66.7



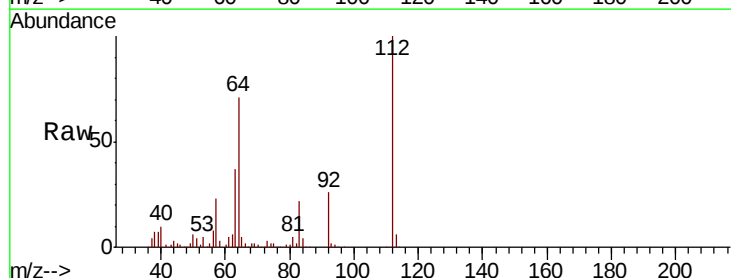
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



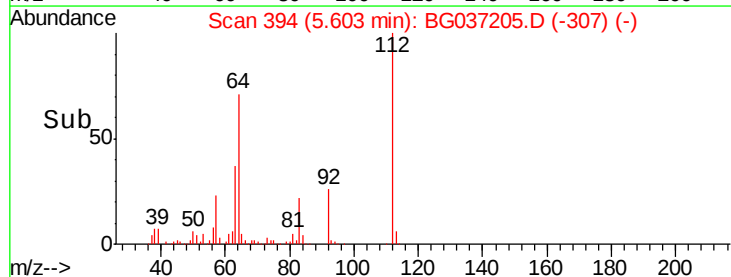
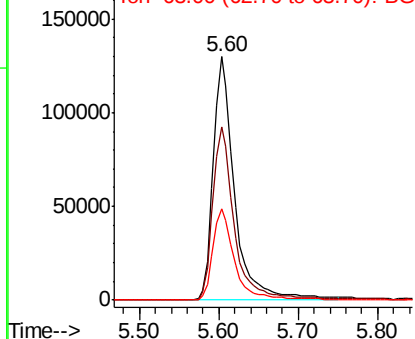
#5

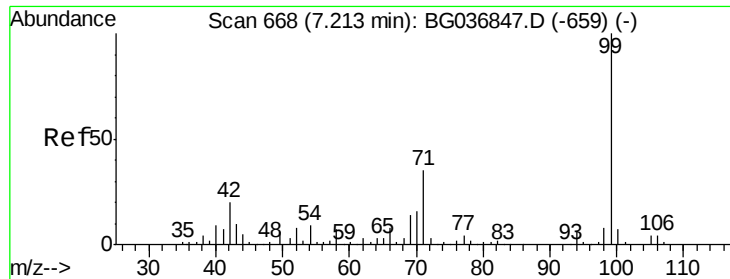
2-Fluorophenol  
 Concen: 150.197 ng  
 RT: 5.60 min Scan# 394  
 Delta R.T. -0.02 min  
 Lab File: BG037205.D  
 Acq: 6 Oct 2018 1:33

Tgt Ion:112 Resp: 243452  
 Ion Ratio Lower Upper  
 112 100  
 64 71.2 57.2 85.8  
 63 37.5 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: 135.247 ng

RT: 7.20 min Scan# 665

Delta R.T. -0.02 min

Lab File: BG037205.D

Acq: 6 Oct 2018 1:33

Instrument :

BNA\_G

ClientSampleId :

PB113566TB

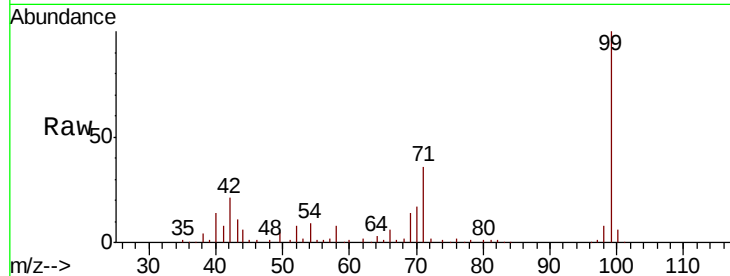
Tgt Ion: 99 Resp: 339171

Ion Ratio Lower Upper

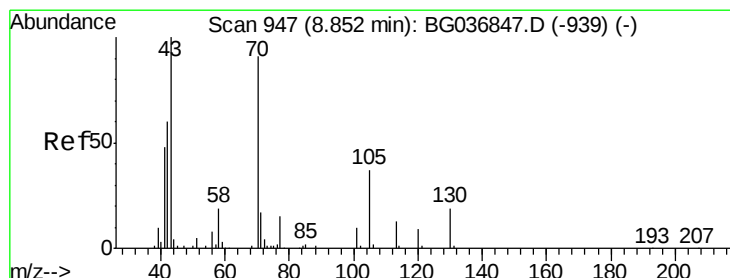
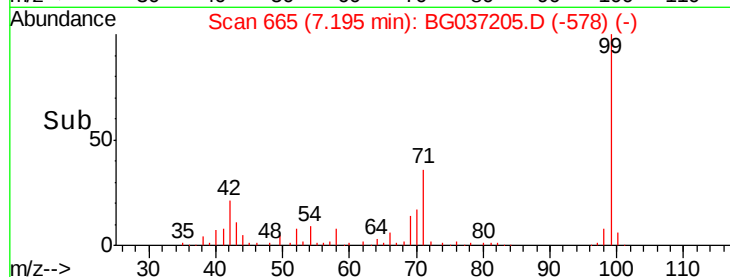
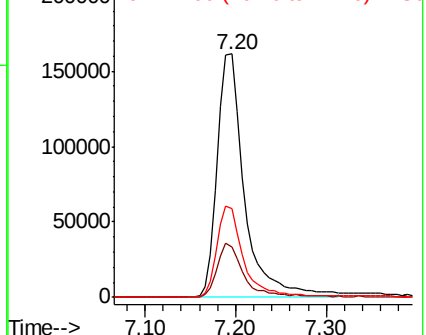
99 100

42 20.7 16.5 24.7

71 36.3 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: 13.508 ng

RT: 9.19 min Scan# 1005

Delta R.T. 0.34 min

Lab File: BG037205.D

Acq: 6 Oct 2018 1:33

Tgt Ion: 70 Resp: 28180

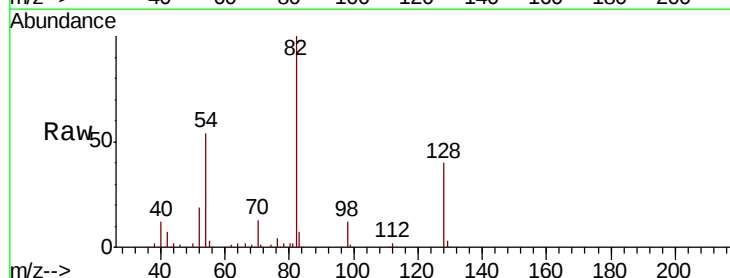
Ion Ratio Lower Upper

70 100

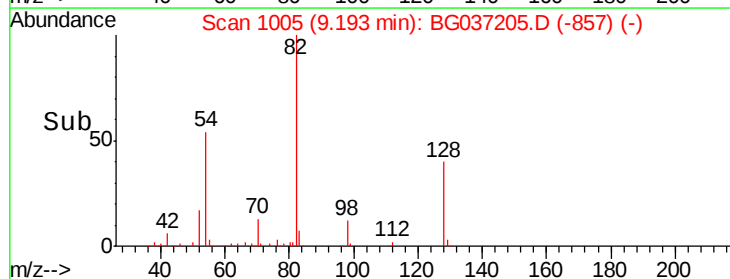
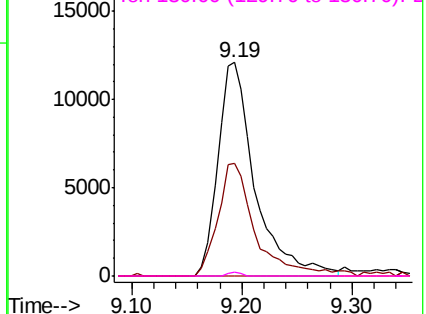
42 52.8 56.2 84.4#

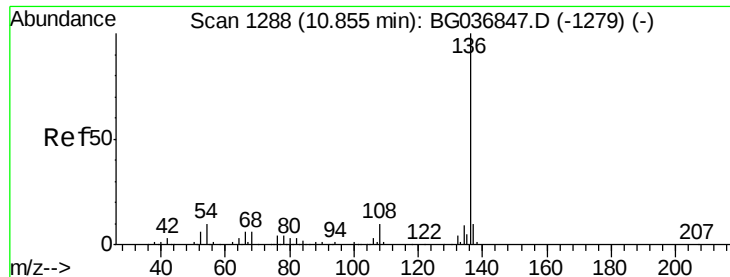
101 0.0 7.8 11.6#

130 2.1 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

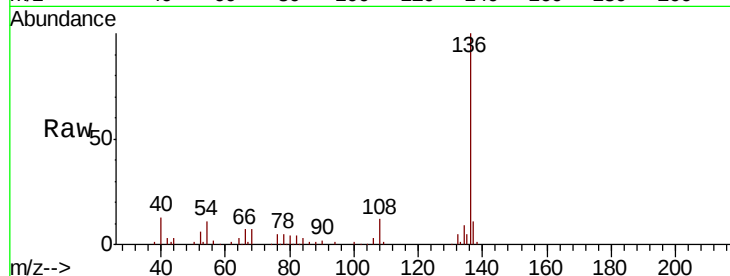




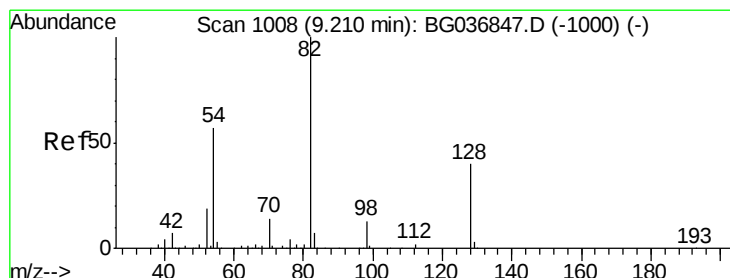
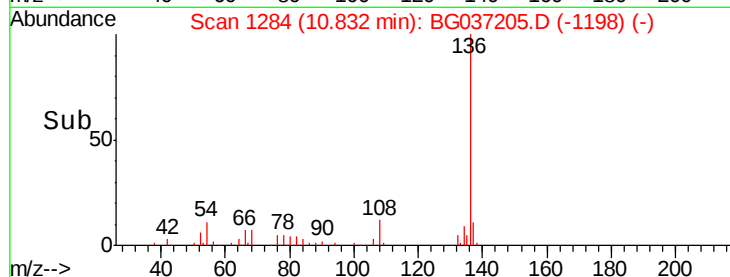
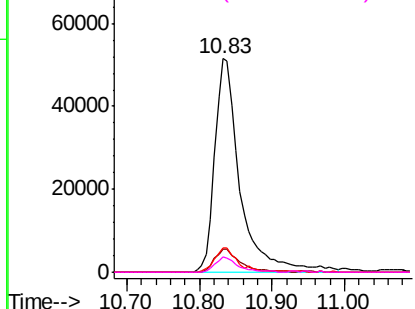
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.83 min Scan# 1284  
Delta R.T. -0.02 min  
Lab File: BG037205.D  
Acq: 6 Oct 2018 1:33

Instrument :  
BNA\_G  
ClientSampleId :  
PB113566TB

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 125417 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.8  | 8.8   | 13.2   |
| 54       | 11.2  | 9.2   | 13.8   |
| 68       | 7.3   | 5.8   | 8.6    |

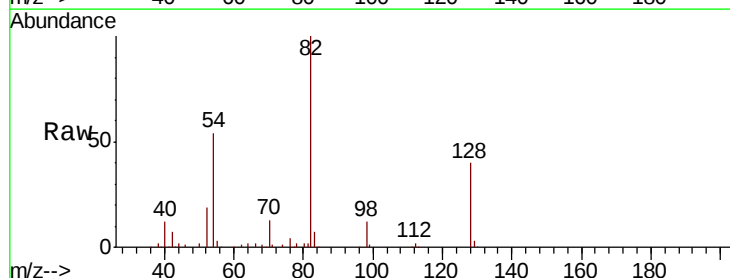


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

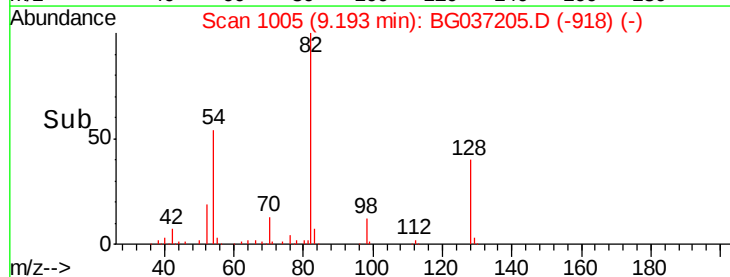
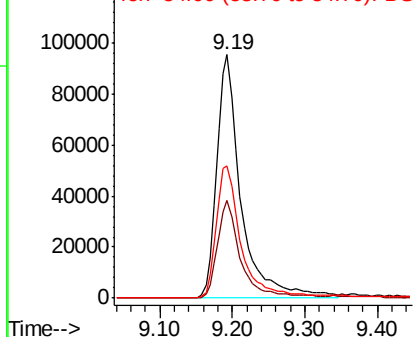


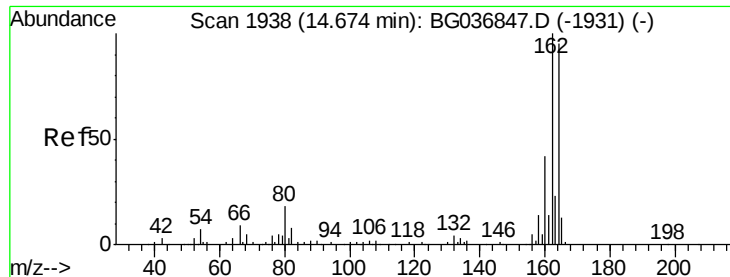
#23  
Nitrobenzene-d5  
Concen: 94.576 ng  
RT: 9.19 min Scan# 1005  
Delta R.T. -0.02 min  
Lab File: BG037205.D  
Acq: 6 Oct 2018 1:33

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 221498 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.2  | 33.3  | 49.9   |
| 54       | 54.1  | 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: 14.66 min Scan# 1935

Delta R.T. -0.02 min

Lab File: BG037205.D

Acq: 6 Oct 2018 1:33

Instrument :

BNA\_G

ClientSampleId :

PB113566TB

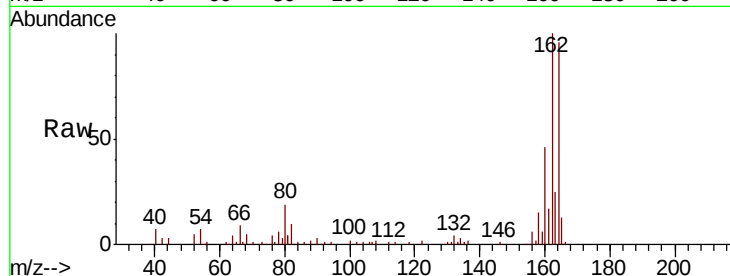
Tgt Ion:164 Resp: 87834

Ion Ratio Lower Upper

164 100

162 104.7 80.7 121.1

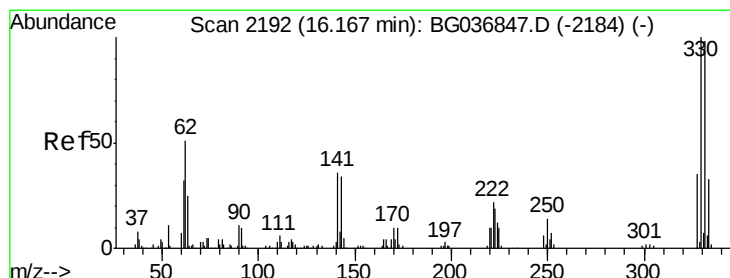
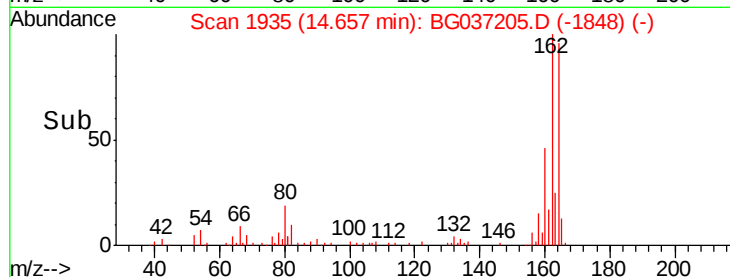
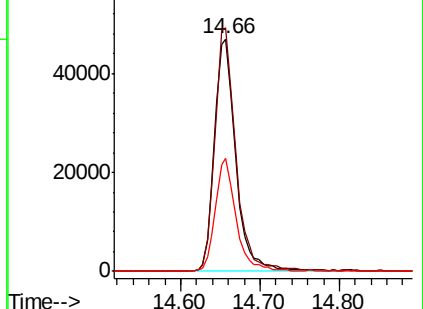
160 48.3 35.3 52.9



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: 137.042 ng

RT: 16.14 min Scan# 2188

Delta R.T. -0.02 min

Lab File: BG037205.D

Acq: 6 Oct 2018 1:33

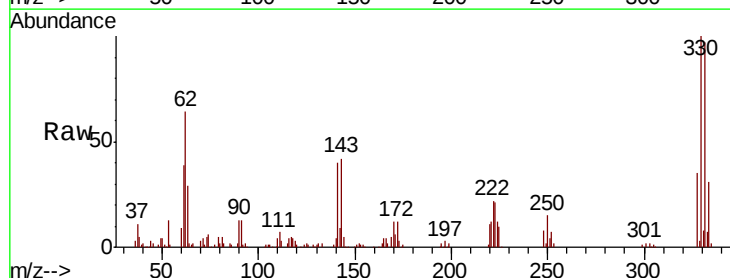
Tgt Ion:330 Resp: 144015

Ion Ratio Lower Upper

330 100

332 97.3 75.4 113.2

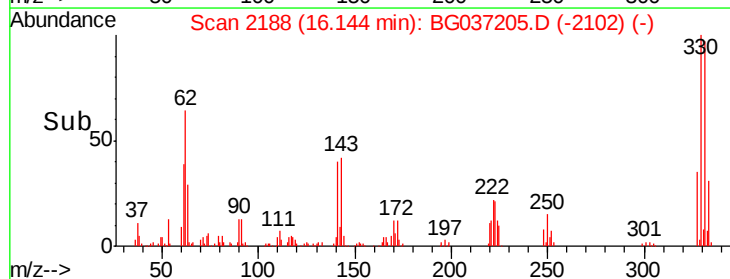
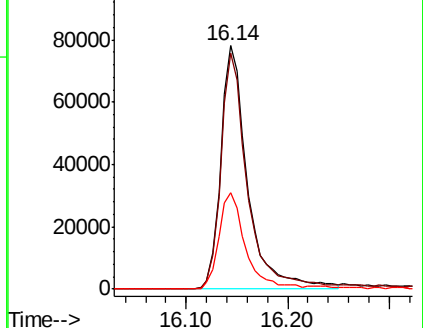
141 39.1 30.7 46.1

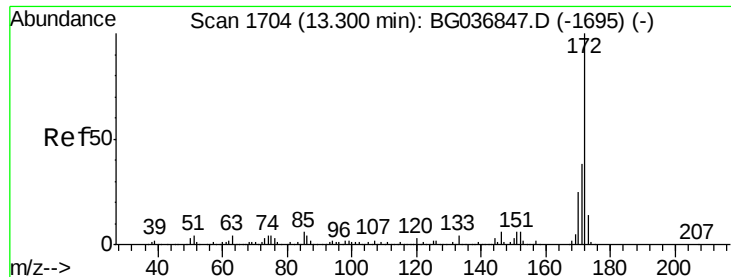


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

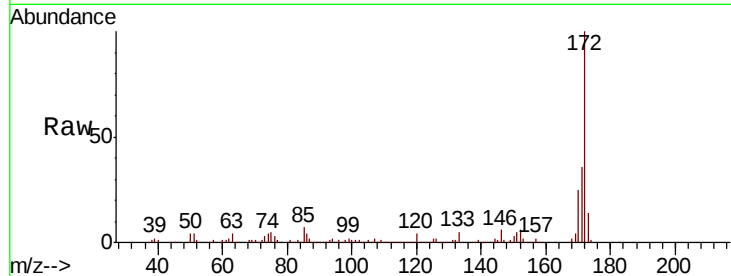




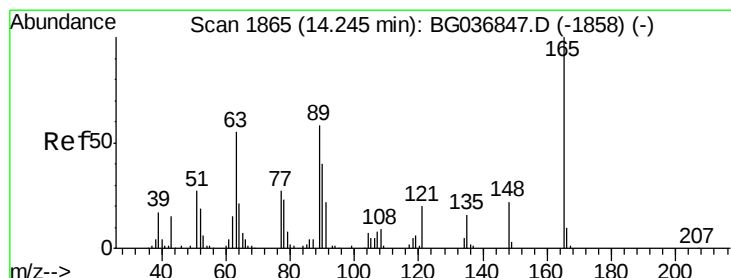
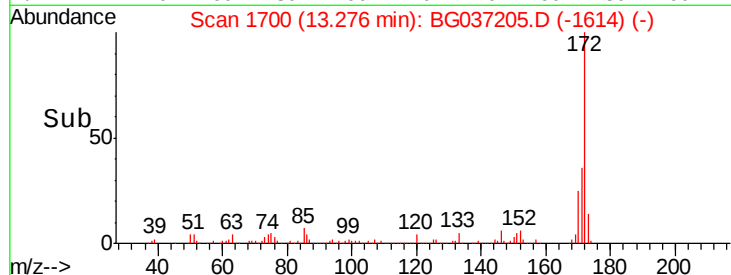
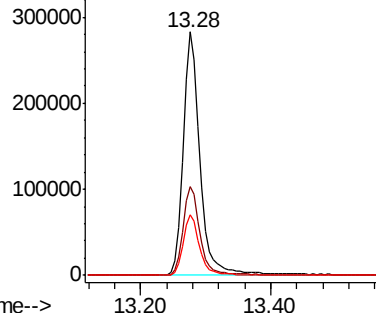
#44  
 2-Fluorobiphenyl  
 Concen: 85.598 ng  
 RT: 13.28 min Scan# 1700  
 Delta R.T. -0.02 min  
 Lab File: BG037205.D  
 Acq: 6 Oct 2018 1:33

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB113566TB

Tgt Ion:172 Resp: 504799  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 31.3 46.9  
 170 24.8 21.0 31.6

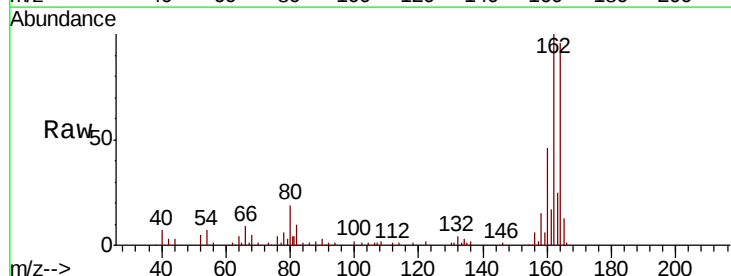


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

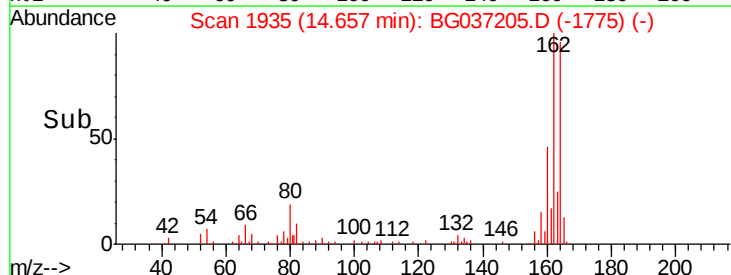
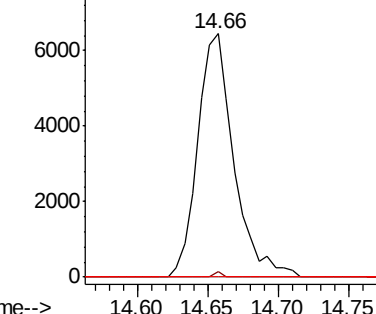


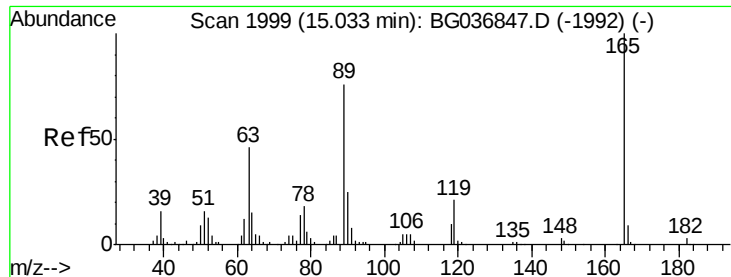
#50  
 2,6-Dinitrotoluene  
 Concen: 7.426 ng  
 RT: 14.66 min Scan# 1935  
 Delta R.T. 0.41 min  
 Lab File: BG037205.D  
 Acq: 6 Oct 2018 1:33

Tgt Ion:165 Resp: 11455  
 Ion Ratio Lower Upper  
 165 100  
 63 2.5 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

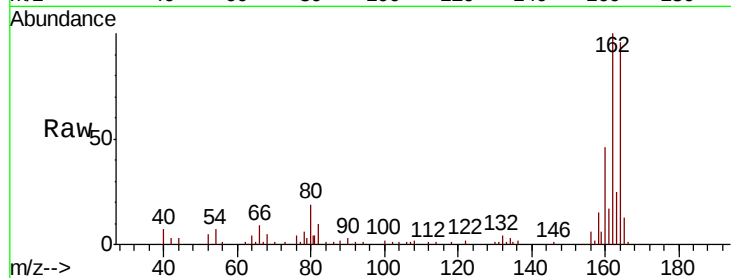




#56  
2,4-Dinitrotoluene  
Concen: 5.322 ng  
RT: 14.66 min Scan# 1935  
Delta R.T. -0.38 min  
Lab File: BG037205.D  
Acq: 6 Oct 2018 1:33

Instrument :  
BNA\_G  
ClientSampleId :  
PB113566TB

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



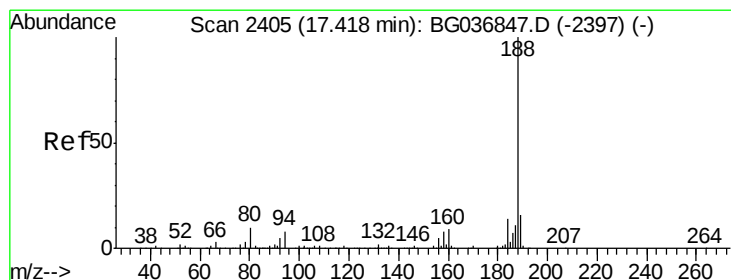
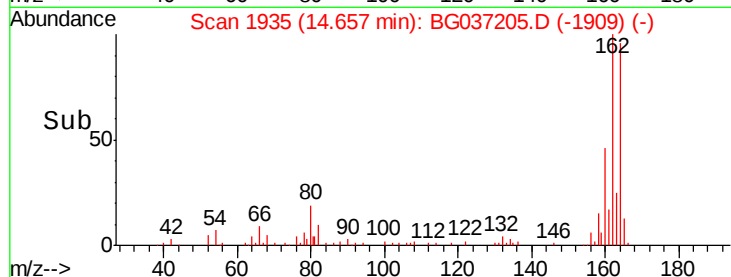
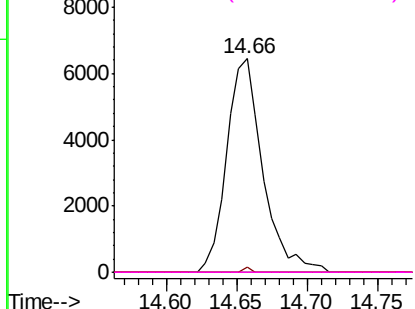
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

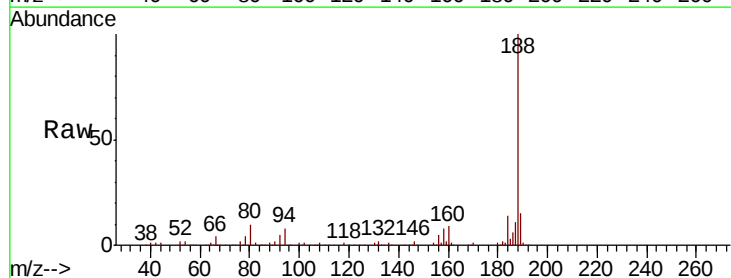
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.40 min Scan# 2402  
Delta R.T. -0.02 min  
Lab File: BG037205.D  
Acq: 6 Oct 2018 1:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.3   | 6.7   | 10.1  |
| 80      | 10.0  | 8.1   | 12.1  |

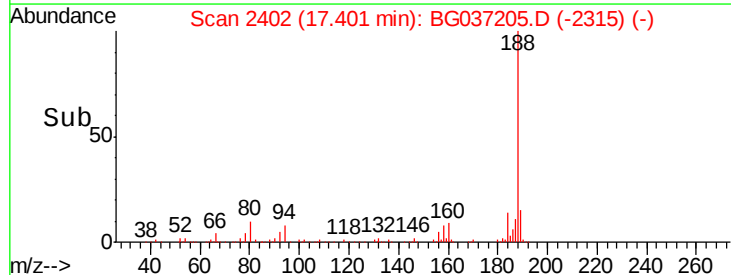
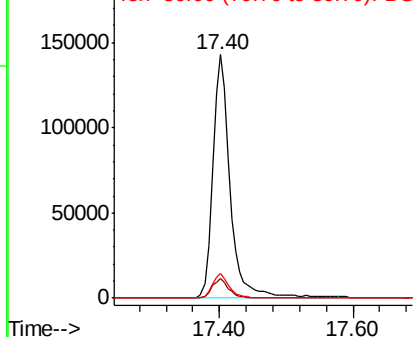


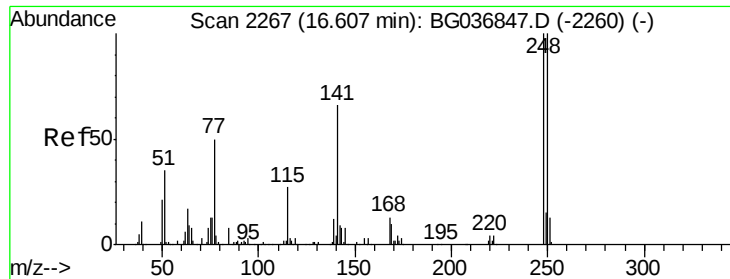
Abundance

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

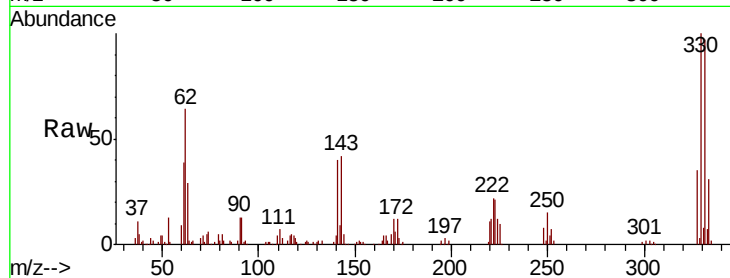




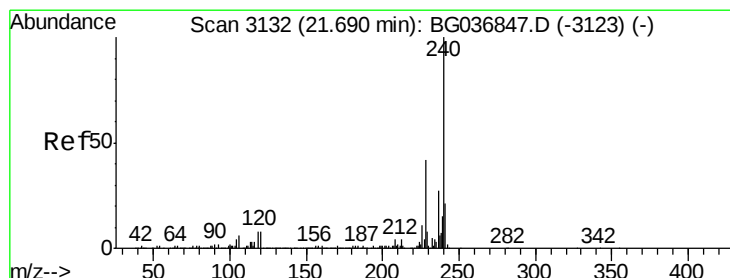
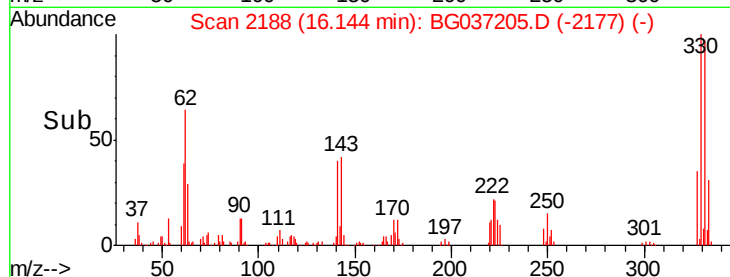
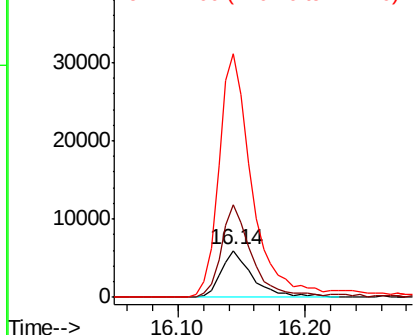
#66  
4-Bromophenyl-phenylether  
Concen: 3.463 ng  
RT: 16.14 min Scan# 2188  
Delta R.T. -0.46 min  
Lab File: BG037205.D  
Acq: 6 Oct 2018 1:33

Instrument :  
BNA\_G  
ClientSampleId :  
PB113566TB

Tgt Ion:248 Resp: 10277  
Ion Ratio Lower Upper  
248 100  
250 196.9 78.1 117.1#  
141 518.8 53.7 80.5#

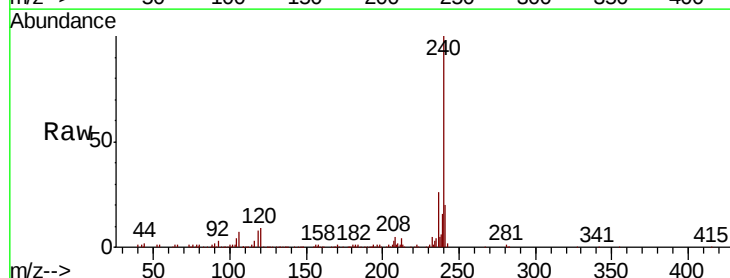


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

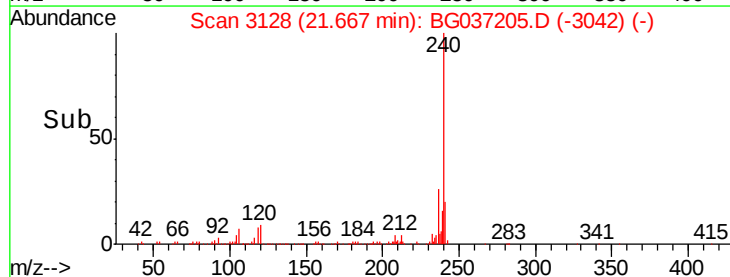
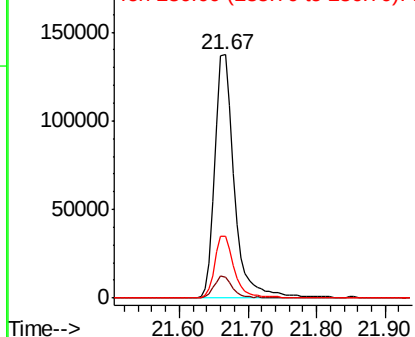


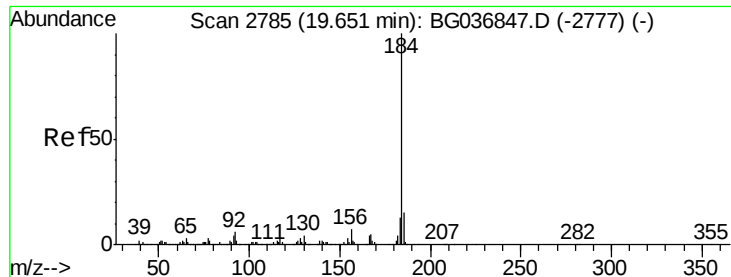
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.67 min Scan# 3128  
Delta R.T. -0.02 min  
Lab File: BG037205.D  
Acq: 6 Oct 2018 1:33

Tgt Ion:240 Resp: 270706  
Ion Ratio Lower Upper  
240 100  
120 8.7 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

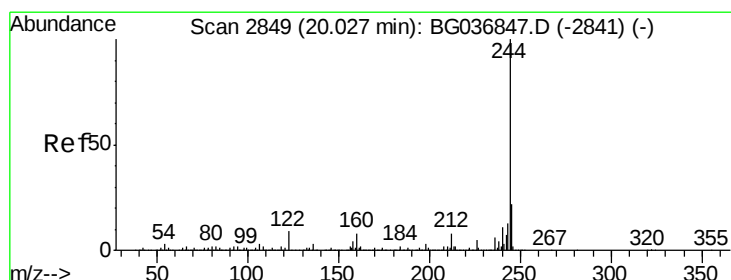
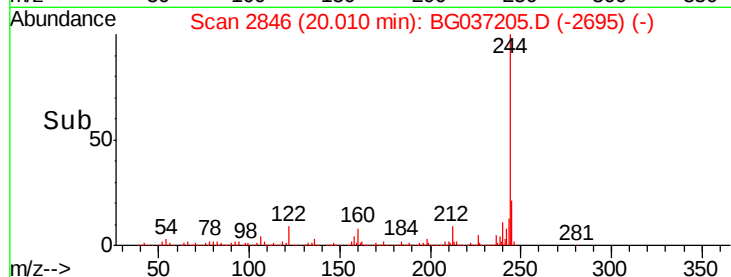
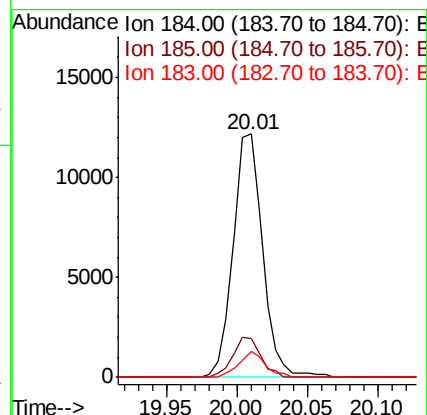
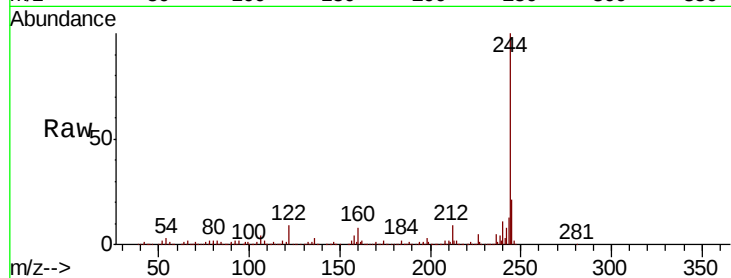




#76  
Benzidine  
Concen: 2.170 ng  
RT: 20.01 min Scan# 2846  
Delta R.T. 0.36 min  
Lab File: BG037205.D  
Acq: 6 Oct 2018 1:33

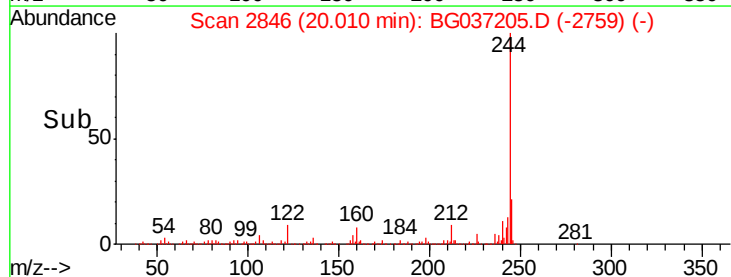
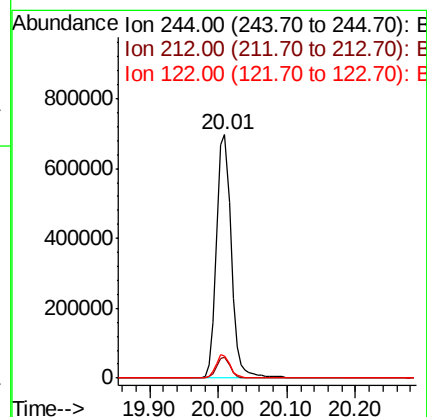
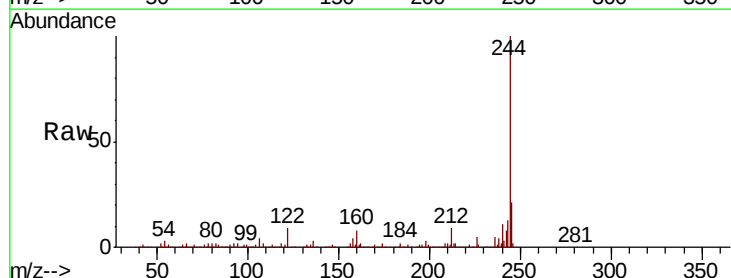
Instrument :  
BNA\_G  
ClientSampleId :  
PB113566TB

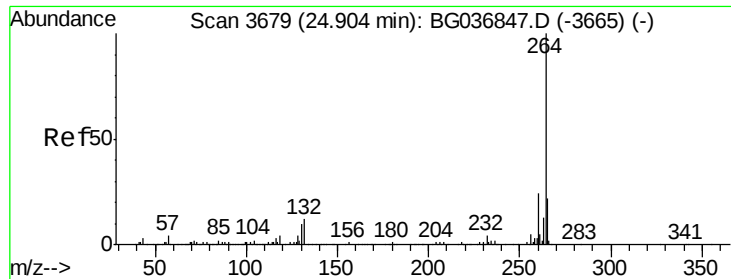
Tgt Ion:184 Resp: 17758  
Ion Ratio Lower Upper  
184 100  
185 15.9 12.6 18.8  
183 10.8 10.9 16.3#



#78  
Terphenyl-d14  
Concen: 101.490 ng  
RT: 20.01 min Scan# 2846  
Delta R.T. -0.02 min  
Lab File: BG037205.D  
Acq: 6 Oct 2018 1:33

Tgt Ion:244 Resp: 1044837  
Ion Ratio Lower Upper  
244 100  
212 8.7 7.0 10.6  
122 9.3 7.1 10.7





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.86 min Scan# 3671  
Delta R.T. -0.05 min  
Lab File: BG037205.D  
Acq: 6 Oct 2018 1:33

Instrument :  
BNA\_G  
ClientSampleId :  
PB113566TB

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 19.6  | 29.4  |
| 265     | 19.9  | 17.4  | 26.0  |

