

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG031819\  
 Data File : BG039983.D  
 Acq On : 18 Mar 2019 23:52  
 Operator : JU/SJ  
 Sample : K1932-02  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TW-7

Quant Time: Mar 19 07:51:34 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG030419.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Mar 04 14:38:15 2019  
 Response via : Initial Calibration

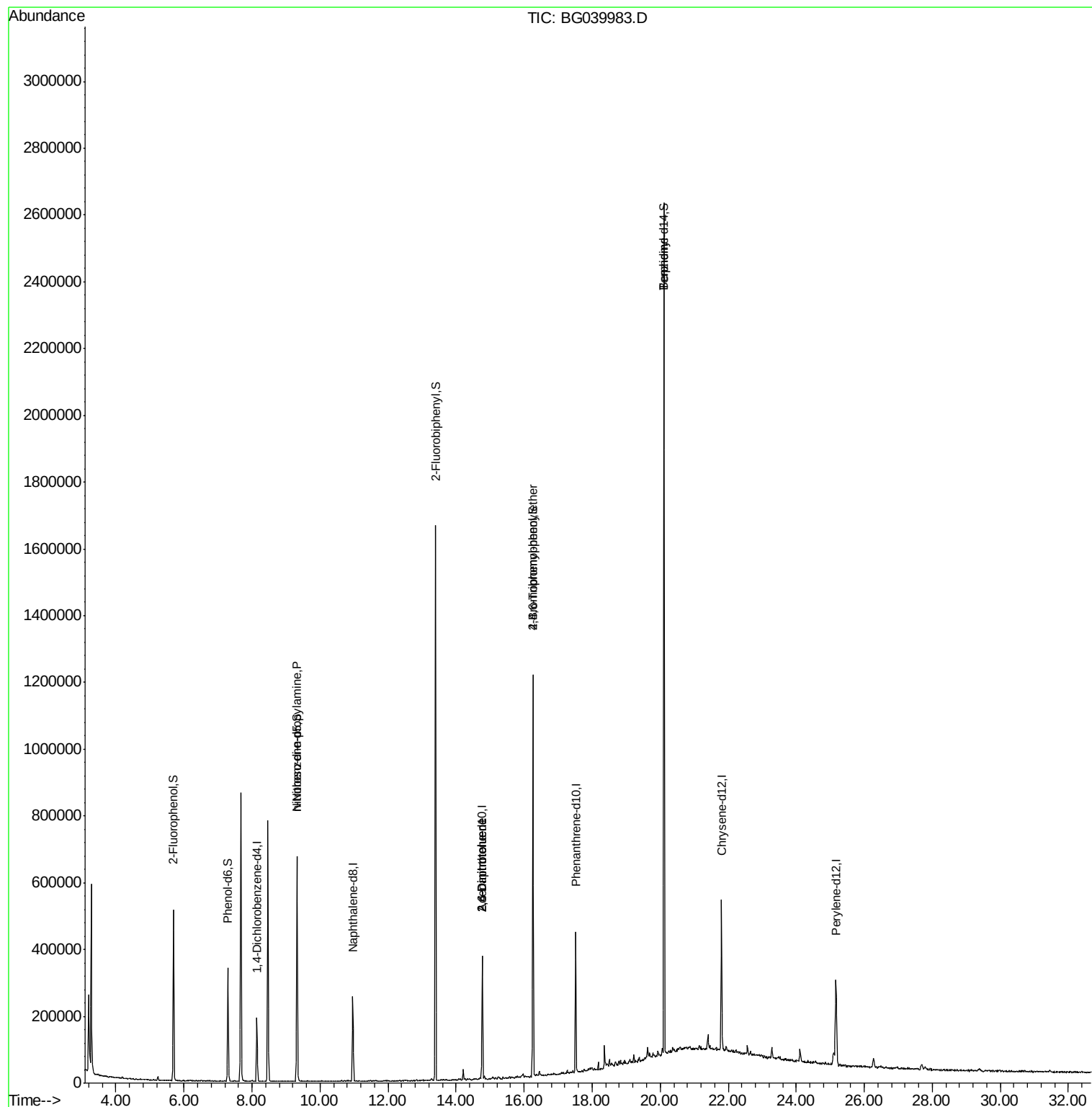
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.15  | 152  | 51712    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.97 | 136  | 209835   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.77 | 164  | 125684   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.52 | 188  | 263443   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.80 | 240  | 276020   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 25.17 | 264  | 287254   | 20.00  | ng    | -0.03    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.69  | 112  | 204798   | 67.56  | ng    | -0.02    |
| 7) Phenol-d6                   | 7.29  | 99   | 188124   | 41.62  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 9.33  | 82   | 399022   | 102.85 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 16.26 | 330  | 195915   | 133.74 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.40 | 172  | 879618   | 99.65  | ng    | -0.02    |
| 79) Terphenyl-d14              | 20.11 | 244  | 1129656  | 90.11  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.33  | 70   | 52796    | 16.229 | ng    | # 71     |
| 51) 2,6-Dinitrotoluene         | 14.77 | 165  | 16046    | 7.202  | ng    | # 22     |
| 57) 2,4-Dinitrotoluene         | 14.77 | 165  | 16046    | 5.126  | ng    | # 17     |
| 67) 4-Bromophenyl-phenylether  | 16.26 | 248  | 15553    | 5.274  | ng    | # 1      |
| 77) Benzidine                  | 20.11 | 184  | 23133    | 2.641  | ng    | # 91     |

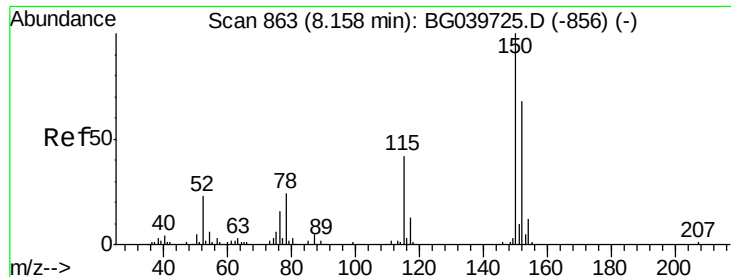
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG031819\  
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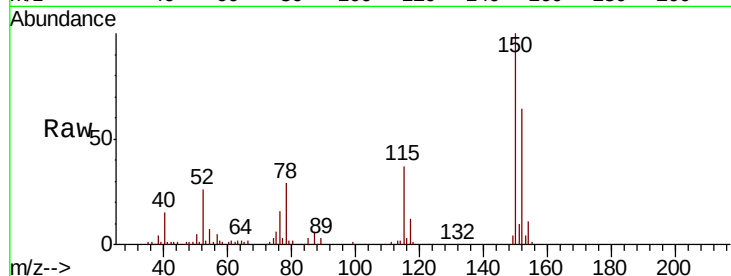


#1

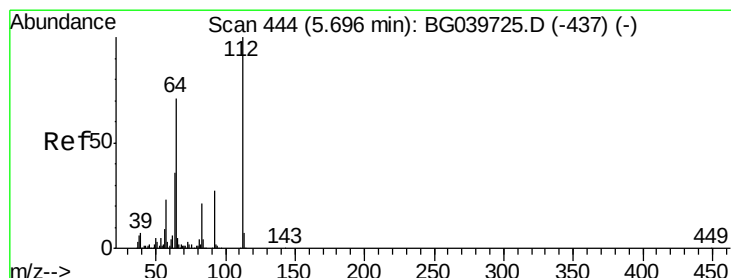
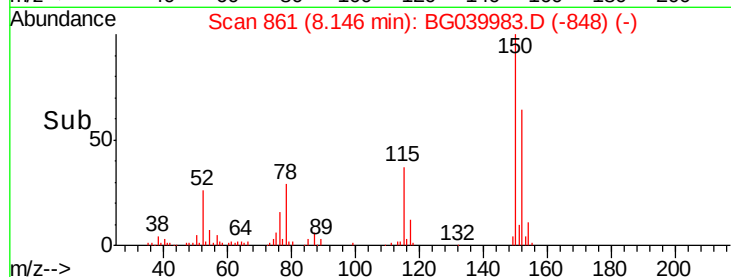
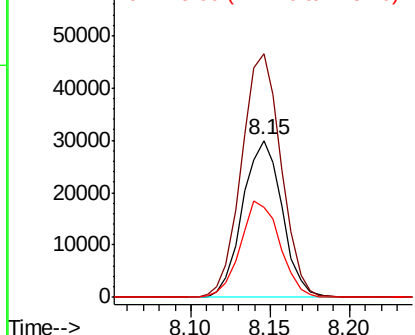
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.15 min Scan# 861  
 Delta R.T. -0.02 min  
 Lab File: BG039983.D  
 Acq: 18 Mar 2019 23:52

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TW-7

Tgt Ion:152 Resp: 51712  
 Ion Ratio Lower Upper  
 152 100  
 150 155.4 123.7 185.5  
 115 57.7 45.9 68.9



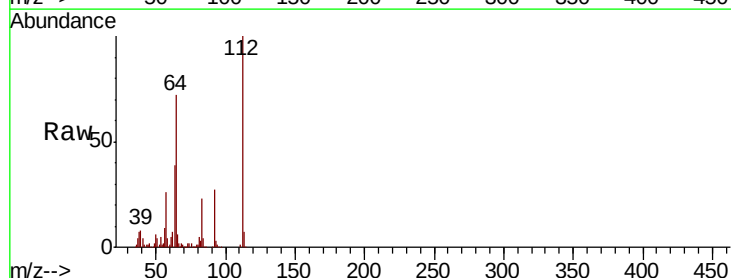
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



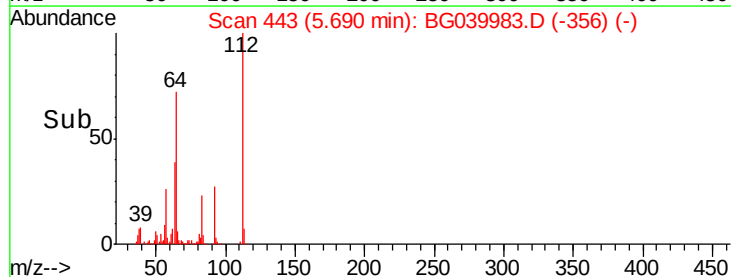
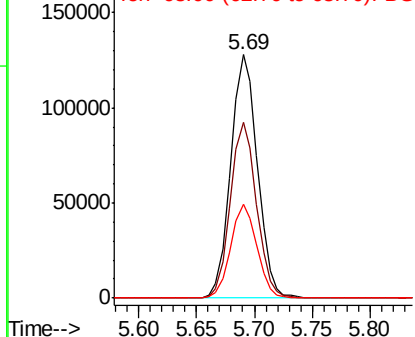
#5

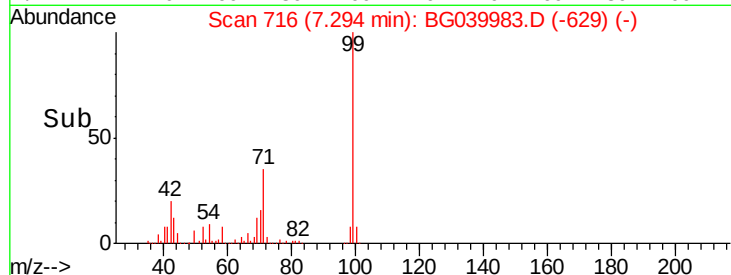
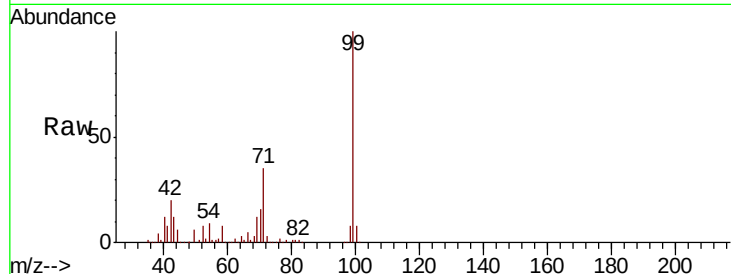
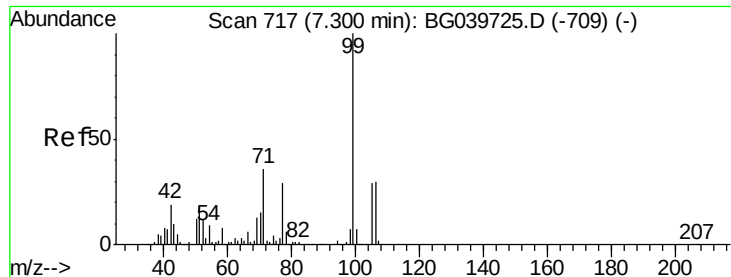
2-Fluorophenol  
 Concen: 67.564 ng  
 RT: 5.69 min Scan# 443  
 Delta R.T. -0.02 min  
 Lab File: BG039983.D  
 Acq: 18 Mar 2019 23:52

Tgt Ion:112 Resp: 204798  
 Ion Ratio Lower Upper  
 112 100  
 64 72.2 57.8 86.8  
 63 38.7 29.8 44.6



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

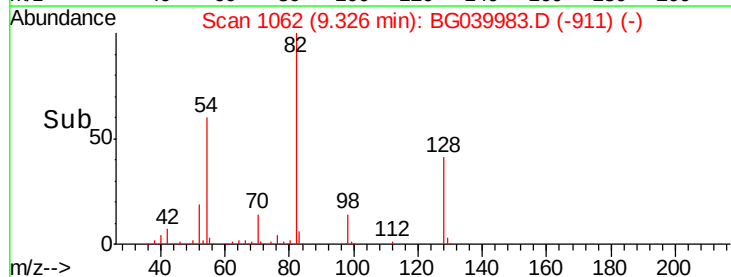
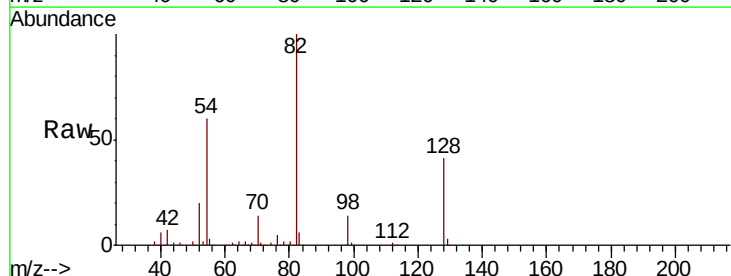
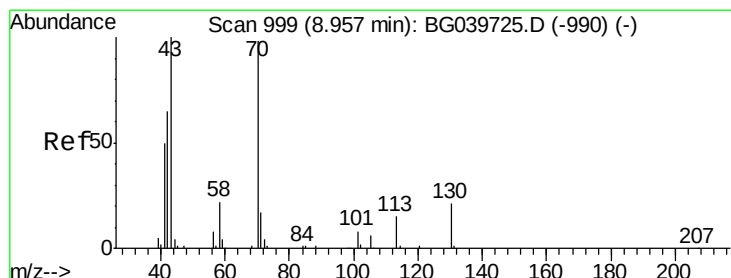
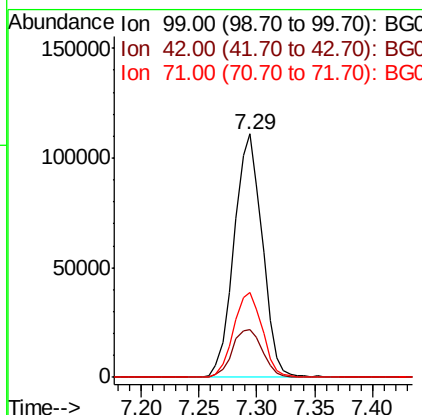




#7  
 Phenol-d6  
 Concen: 41.624 ng  
 RT: 7.29 min Scan# 716  
 Delta R.T. -0.02 min  
 Lab File: BG039983.D  
 Acq: 18 Mar 2019 23:52

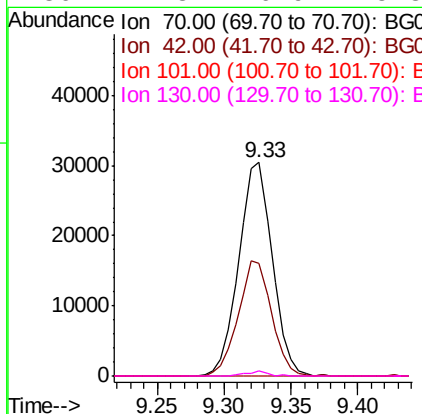
Instrument :  
 BNA\_G  
 ClientSampled :  
 TW-7

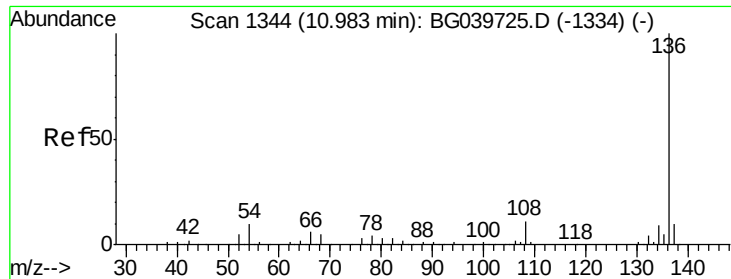
Tgt Ion: 99 Resp: 188124  
 Ion Ratio Lower Upper  
 99 100  
 42 19.8 18.2 27.2  
 71 34.8 28.0 42.0



#19  
 n-Nitroso-di-n-propylamine  
 Concen: 16.229 ng  
 RT: 9.33 min Scan# 1062  
 Delta R.T. 0.36 min  
 Lab File: BG039983.D  
 Acq: 18 Mar 2019 23:52

Tgt Ion: 70 Resp: 52796  
 Ion Ratio Lower Upper  
 70 100  
 42 52.7 60.4 90.6#  
 101 0.0 7.5 11.3#  
 130 2.3 16.9 25.3#

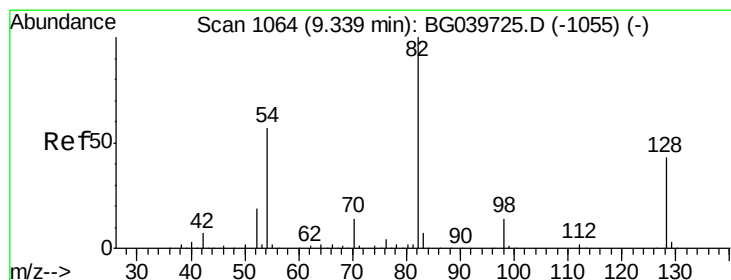
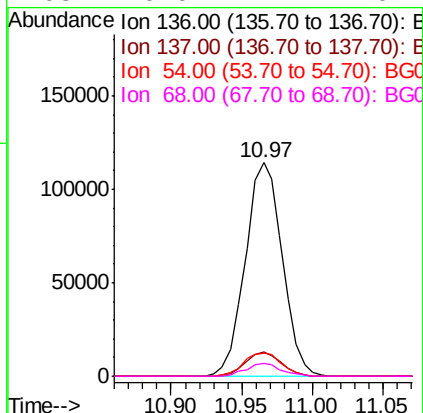
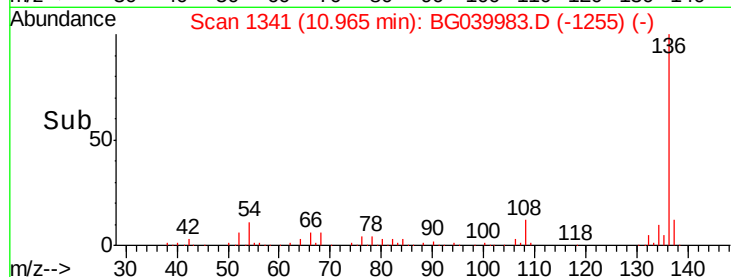
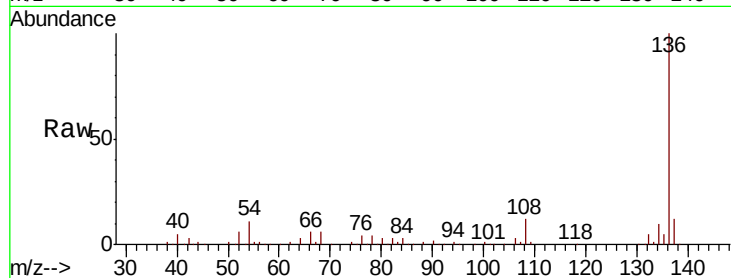




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.97 min Scan# 1341  
Delta R.T. -0.02 min  
Lab File: BG039983.D  
Acq: 18 Mar 2019 23:52

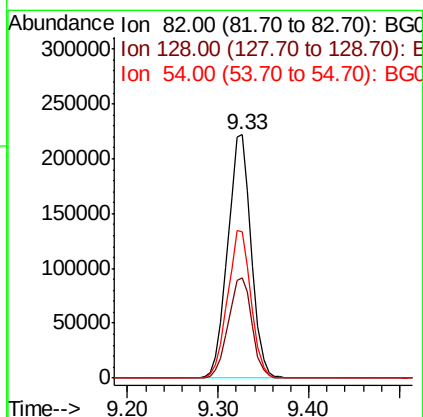
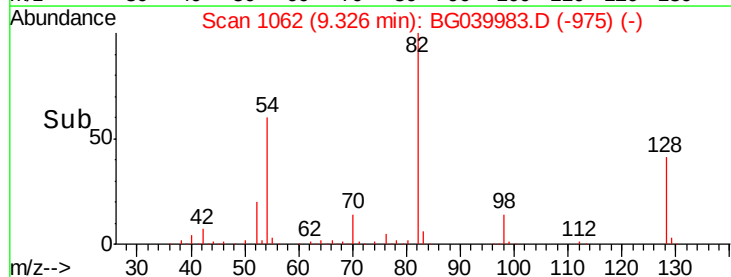
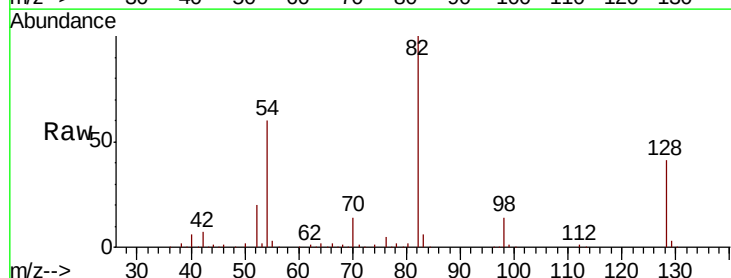
Instrument :  
BNA\_G  
ClientSampleId :  
TW-7

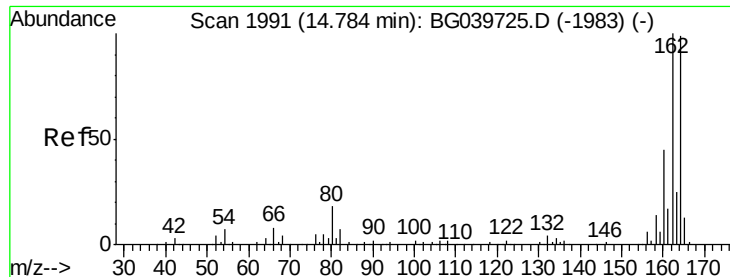
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 209835 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.7  | 9.1   | 13.7   |
| 54       | 11.1  | 9.4   | 14.2   |
| 68       | 6.0   | 4.2   | 6.4    |



#23  
Nitrobenzene-d5  
Concen: 102.846 ng  
RT: 9.33 min Scan# 1062  
Delta R.T. -0.02 min  
Lab File: BG039983.D  
Acq: 18 Mar 2019 23:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 399022 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 41.0  | 31.3  | 46.9   |
| 54       | 59.9  | 50.9  | 76.3   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.77 min Scan# 1989

Delta R.T. -0.02 min

Lab File: BG039983.D

Acq: 18 Mar 2019 23:52

Instrument :

BNA\_G

ClientSampleId :

TW-7

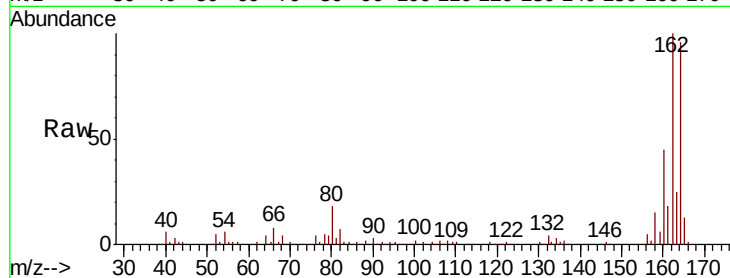
Tgt Ion:164 Resp: 125684

Ion Ratio Lower Upper

164 100

162 104.0 81.6 122.4

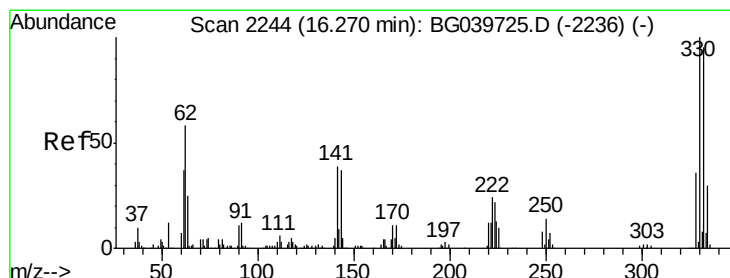
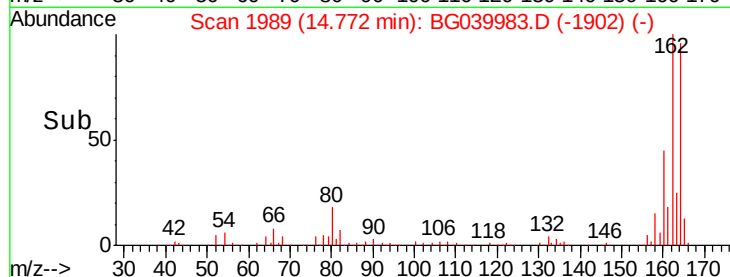
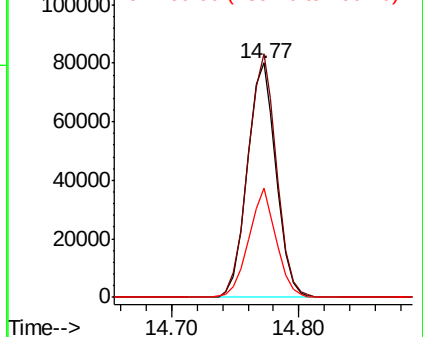
160 46.5 34.2 51.2



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: 133.736 ng

RT: 16.26 min Scan# 2242

Delta R.T. -0.02 min

Lab File: BG039983.D

Acq: 18 Mar 2019 23:52

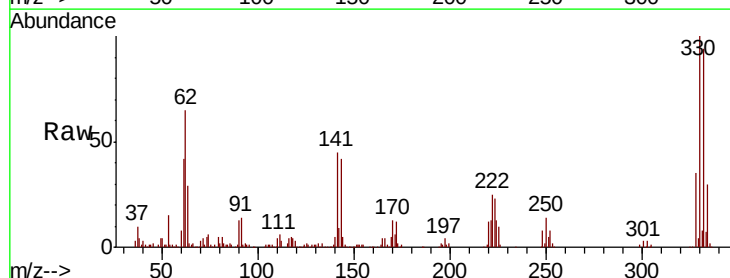
Tgt Ion:330 Resp: 195915

Ion Ratio Lower Upper

330 100

332 94.8 75.7 113.5

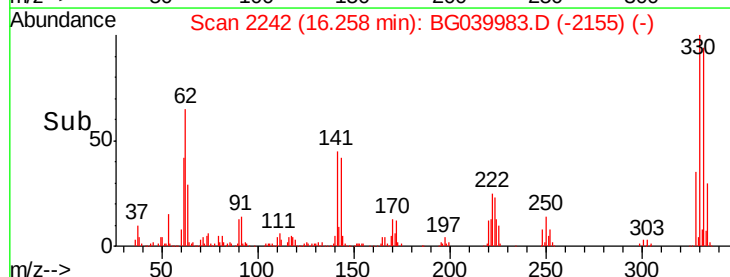
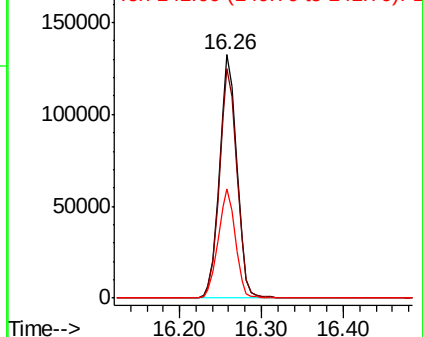
141 44.4 35.6 53.4

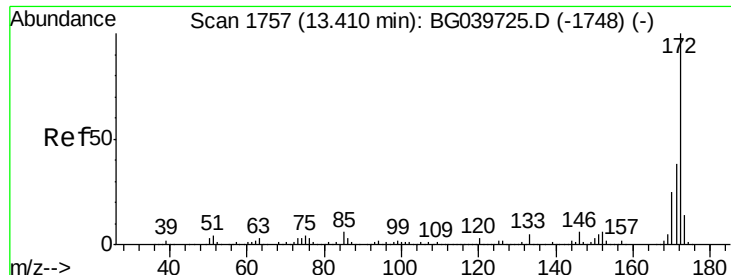


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

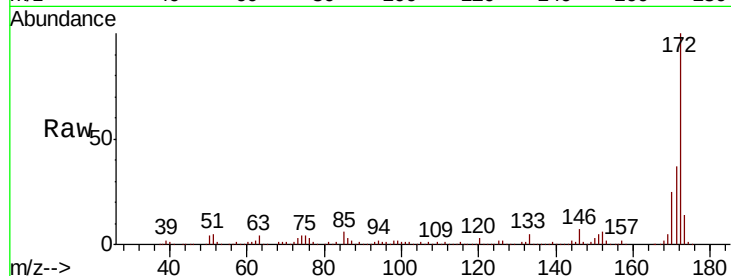




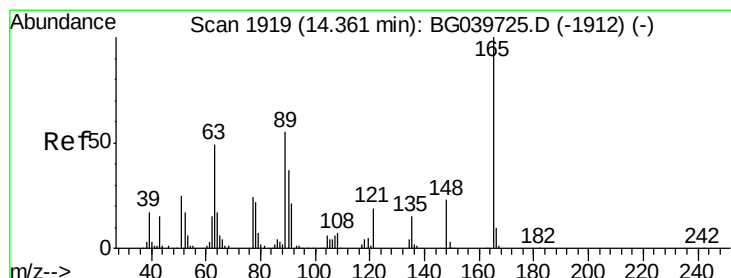
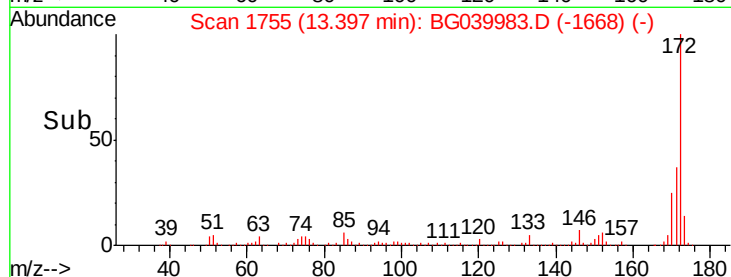
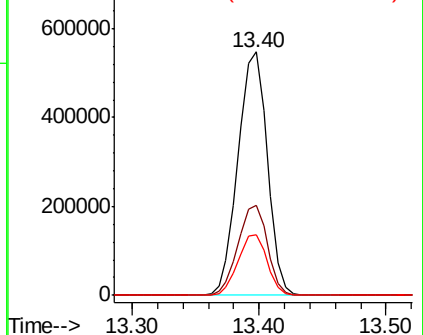
#45  
2-Fluorobiphenyl  
Concen: 99.649 ng  
RT: 13.40 min Scan# 1755  
Delta R.T. -0.02 min  
Lab File: BG039983.D  
Acq: 18 Mar 2019 23:52

Instrument :  
BNA\_G  
ClientSampleId :  
TW-7

Tgt Ion:172 Resp: 879618  
Ion Ratio Lower Upper  
172 100  
171 37.1 30.8 46.2  
170 24.6 20.2 30.4

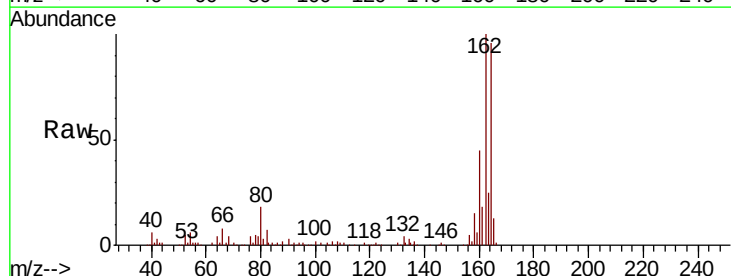


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

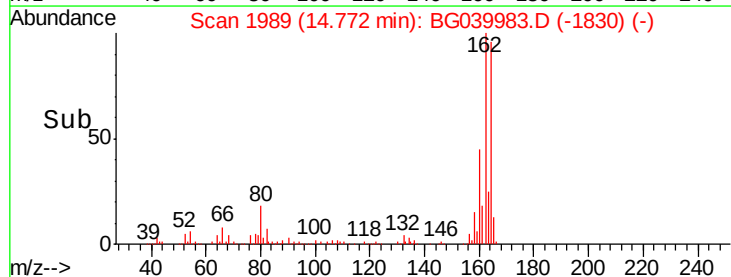
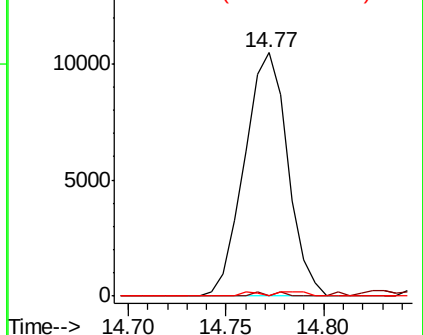


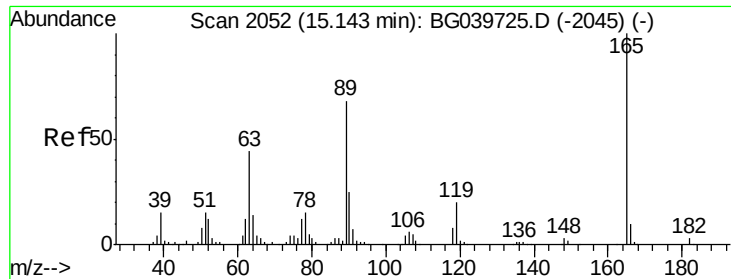
#51  
2,6-Dinitrotoluene  
Concen: 7.202 ng  
RT: 14.77 min Scan# 1989  
Delta R.T. 0.40 min  
Lab File: BG039983.D  
Acq: 18 Mar 2019 23:52

Tgt Ion:165 Resp: 16046  
Ion Ratio Lower Upper  
165 100  
63 0.0 47.0 70.6#  
89 0.0 45.8 68.8#



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





#57

2,4-Dinitrotoluene

Concen: 5.126 ng

RT: 14.77 min Scan# 1989

Delta R.T. -0.38 min

Lab File: BG039983.D

Acq: 18 Mar 2019 23:52

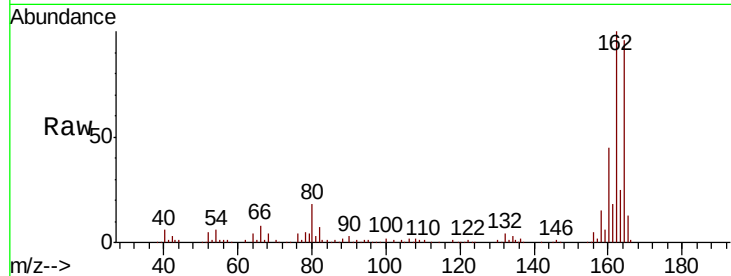
Instrument :

BNA\_G

ClientSampleId :

TW-7

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 16046 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 41.0  | 61.6# |
| 89       | 0.0   | 64.6  | 96.8# |
| 182      | 0.0   | 2.0   | 3.0#  |

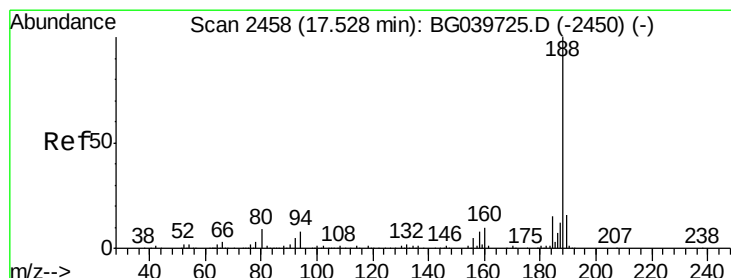
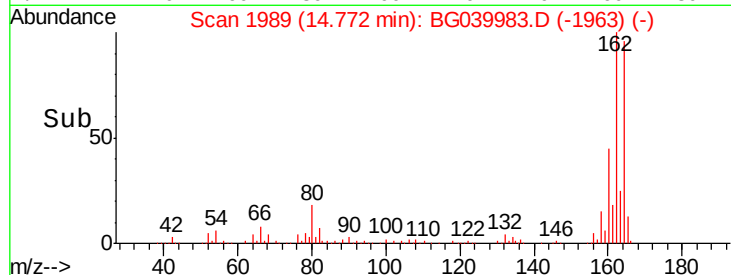
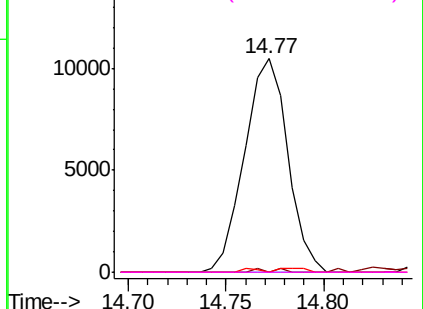


Abundance Ion 165.00 (164.70 to 165.70): E

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

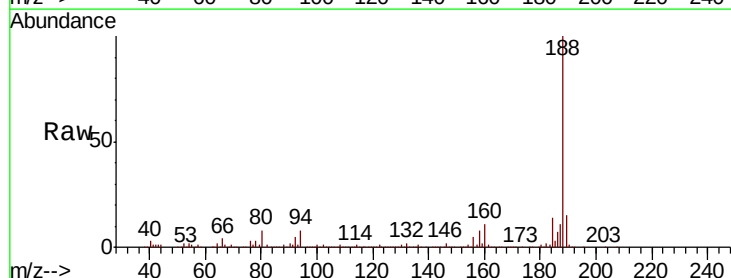
RT: 17.52 min Scan# 2456

Delta R.T. -0.02 min

Lab File: BG039983.D

Acq: 18 Mar 2019 23:52

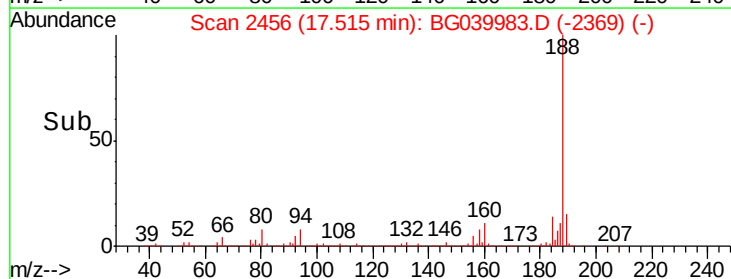
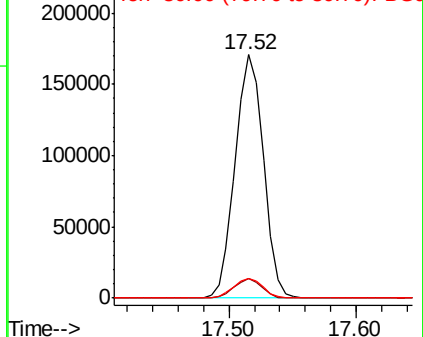
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 263443 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 7.9   | 6.9   | 10.3   |
| 80       | 8.2   | 8.1   | 12.1   |



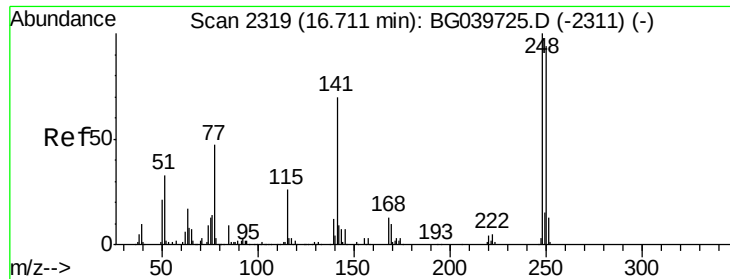
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



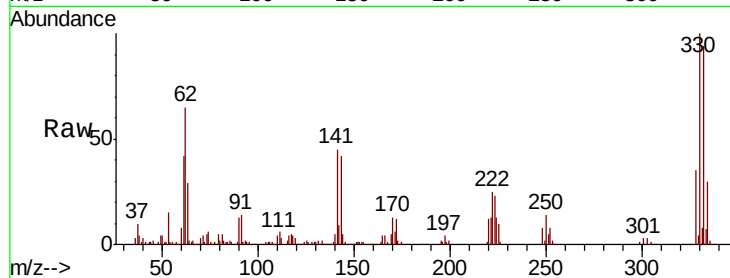




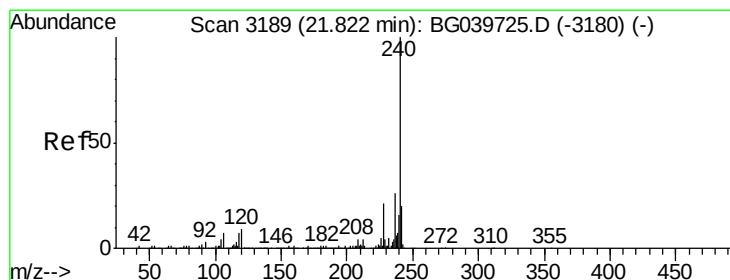
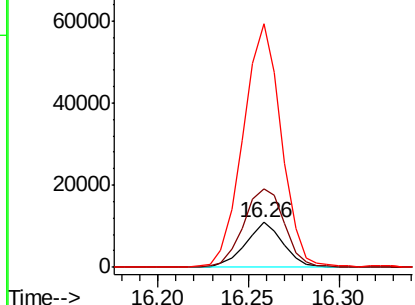
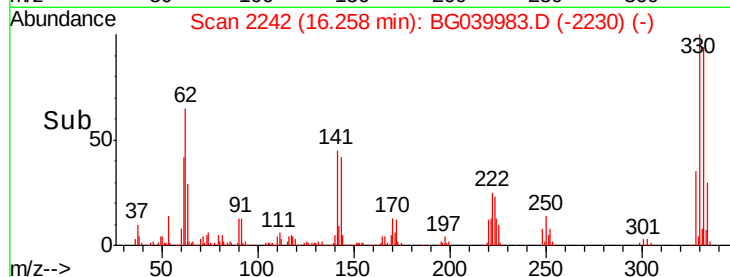
#67  
 4-Bromophenyl-phenylether  
 Concen: 5.274 ng  
 RT: 16.26 min Scan# 2242  
 Delta R.T. -0.46 min  
 Lab File: BG039983.D  
 Acq: 18 Mar 2019 23:52

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TW-7

Tgt Ion:248 Resp: 15553  
 Ion Ratio Lower Upper  
 248 100  
 250 174.6 77.6 116.4#  
 141 540.7 63.9 95.9#

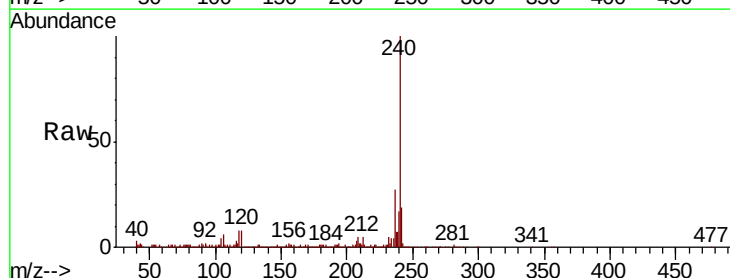


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

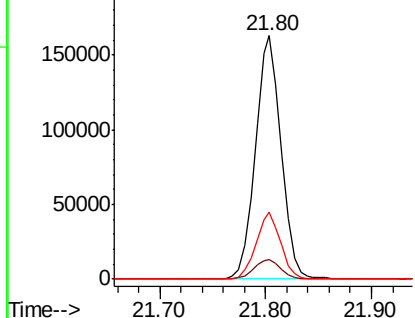
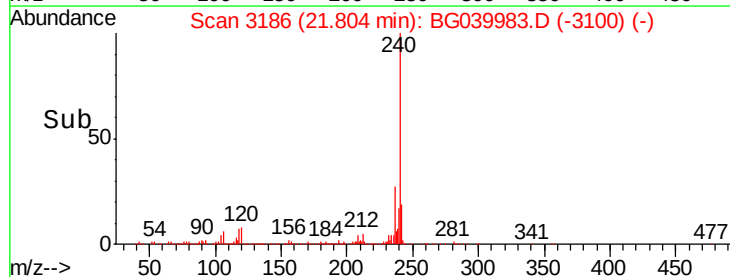


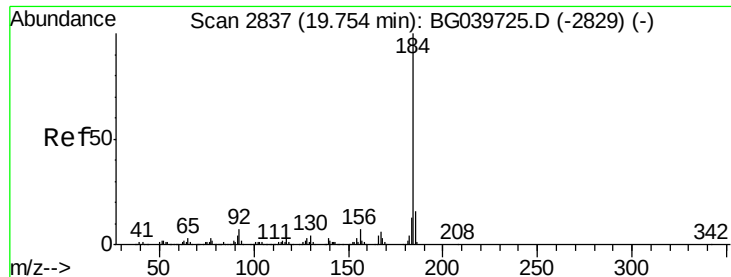
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.80 min Scan# 3186  
 Delta R.T. -0.02 min  
 Lab File: BG039983.D  
 Acq: 18 Mar 2019 23:52

Tgt Ion:240 Resp: 276020  
 Ion Ratio Lower Upper  
 240 100  
 120 8.2 7.0 10.6  
 236 27.4 21.0 31.4



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: 2.641 ng

RT: 20.11 min Scan# 2898

Delta R.T. 0.36 min

Lab File: BG039983.D

Acq: 18 Mar 2019 23:52

Instrument :

BNA\_G

ClientSampleId :

TW-7

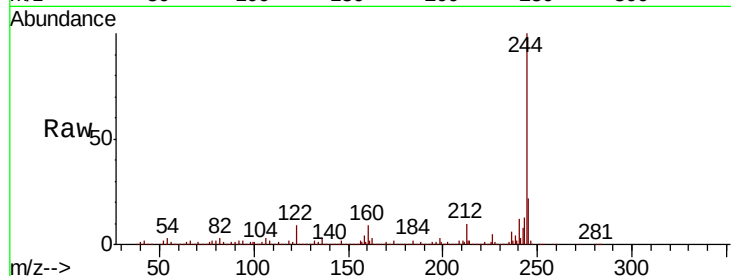
Tgt Ion:184 Resp: 23133

Ion Ratio Lower Upper

184 100

185 18.6 12.2 18.2#

183 9.3 10.6 15.8#

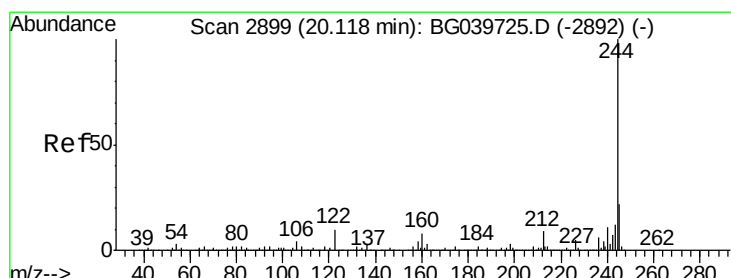
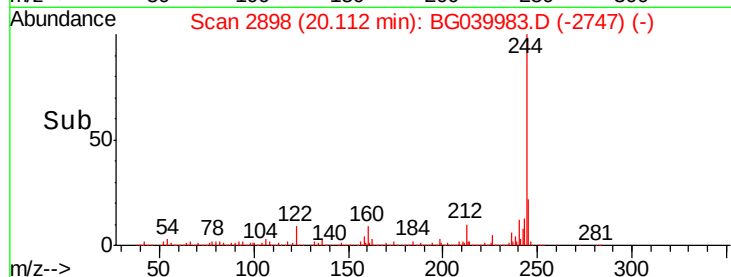
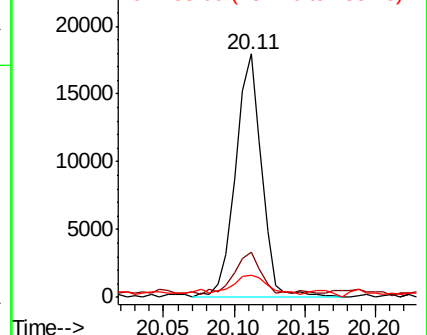


Abundance

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: 90.112 ng

RT: 20.11 min Scan# 2898

Delta R.T. -0.01 min

Lab File: BG039983.D

Acq: 18 Mar 2019 23:52

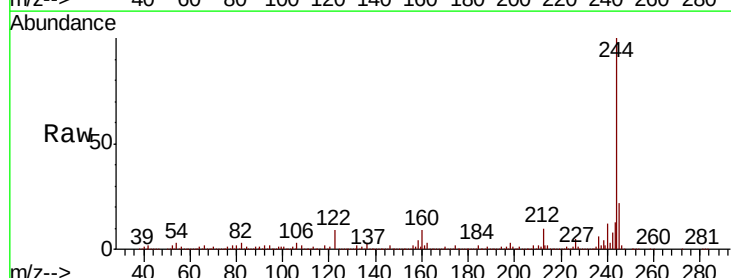
Tgt Ion:244 Resp: 1129656

Ion Ratio Lower Upper

244 100

212 9.8 7.3 10.9

122 9.3 8.4 12.6

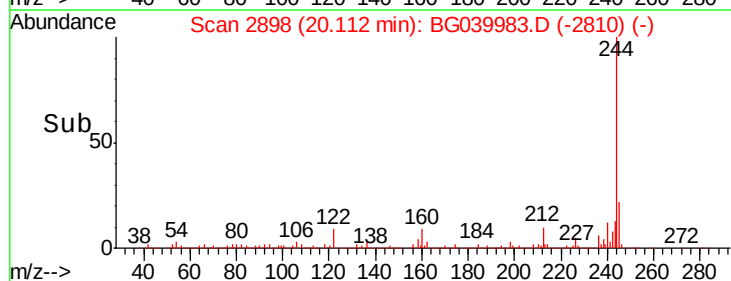
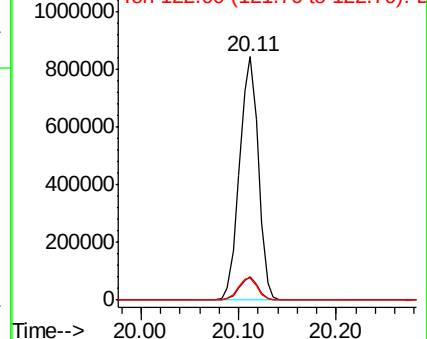


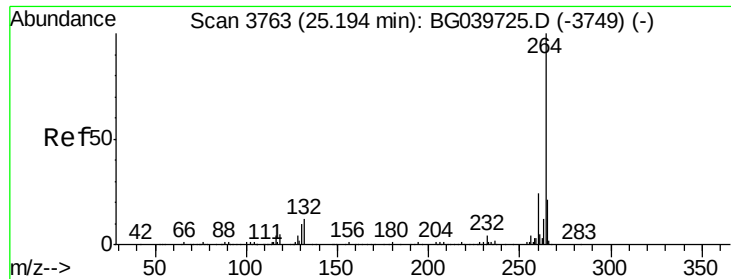
Abundance

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  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.17 min Scan# 3759  
Delta R.T. -0.03 min  
Lab File: BG039983.D  
Acq: 18 Mar 2019 23:52

Instrument :  
BNA\_G  
ClientSampleId :  
TW-7

Tgt Ion: 264 Resp: 287254  
Ion Ratio Lower Upper  
264 100  
260 22.8 18.2 27.4  
265 21.8 18.5 27.7

