

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG040219\  
 Data File : BG040309.D  
 Acq On : 2 Apr 2019 23:20  
 Operator : JU/SJ  
 Sample : K2180-20  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 03 00:52:20 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 28 05:47:00 2019  
 Response via : Initial Calibration

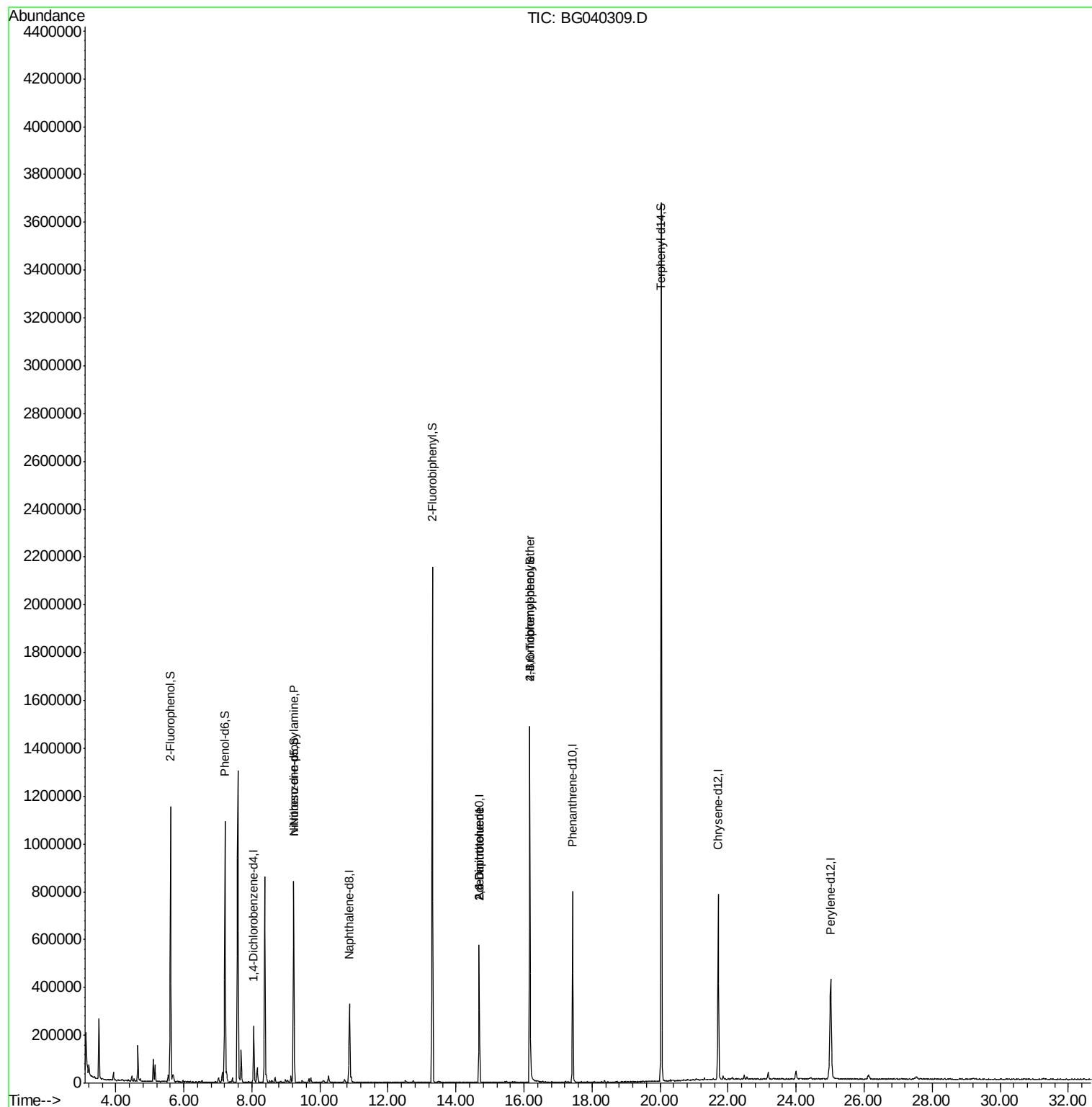
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.06  | 152  | 67494    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.87 | 136  | 288389   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 14.68 | 164  | 196841   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 17.43 | 188  | 494245   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.71 | 240  | 506256   | 20.00  | ng    | -0.02    |
| 87) Perylene-d12               | 25.02 | 264  | 495091   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 512112   | 126.14 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 650446   | 115.92 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.23  | 82   | 507316   | 93.50  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 16.17 | 330  | 280686   | 131.94 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.30 | 172  | 1183498  | 89.09  | ng    | -0.02    |
| 79) Terphenyl-d14              | 20.04 | 244  | 1972264  | 87.64  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.23  | 70   | 63067    | 15.677 | ng    | # 75     |
| 51) 2,6-Dinitrotoluene         | 14.68 | 165  | 24620    | 7.117  | ng    | # 25     |
| 57) 2,4-Dinitrotoluene         | 14.68 | 165  | 24620    | 5.122  | ng    | # 26     |
| 67) 4-Bromophenyl-phenylether  | 16.17 | 248  | 21665    | 3.895  | ng    | # 1      |

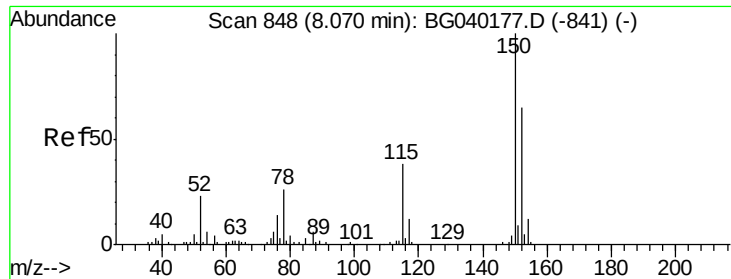
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG040219\  
Data File : BG040309.D  
Acq On : 2 Apr 2019 23:20  
Operator : JU/SJ  
Sample : K2180-20  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Apr 03 00:52:20 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG032719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 28 05:47:00 2019  
Response via : Initial Calibration



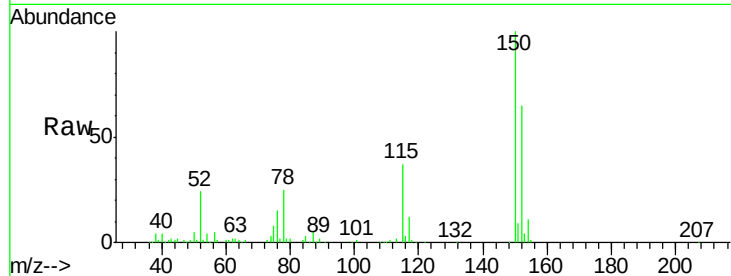


#1

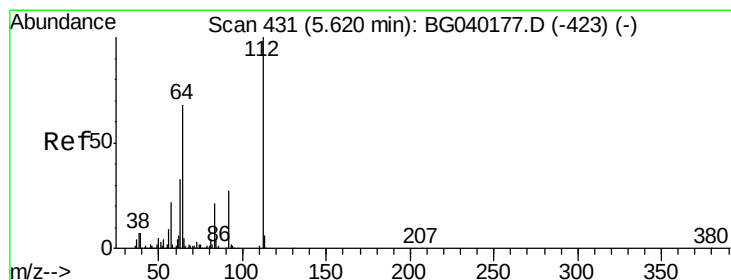
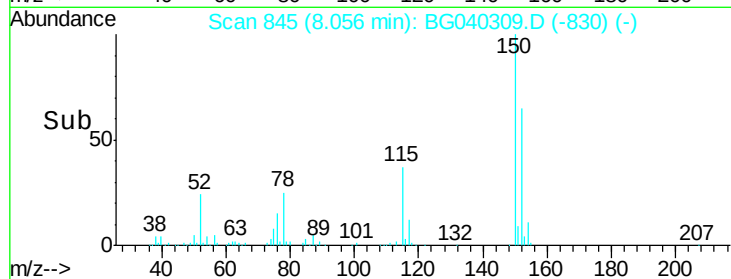
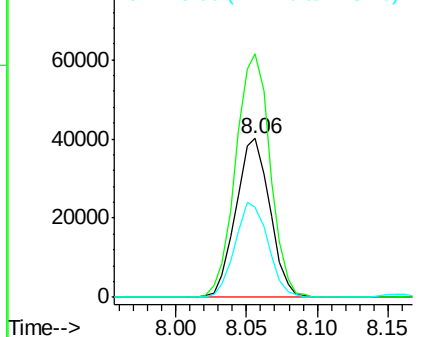
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 8.06 min Scan# 845  
 Delta R.T. -0.01 min  
 Lab File: BG040309.D  
 Acq: 2 Apr 2019 23:20

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:152 Resp: 67494  
 Ion Ratio Lower Upper  
 152 100  
 150 153.6 123.7 185.5  
 115 57.2 46.9 70.3



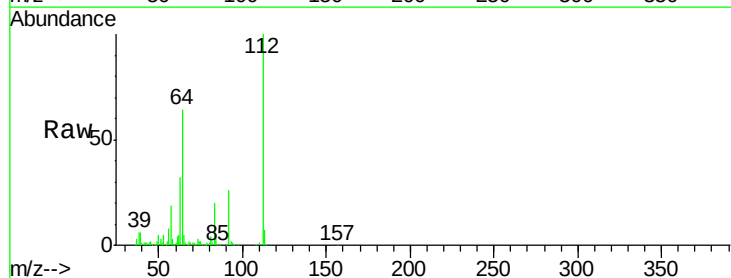
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



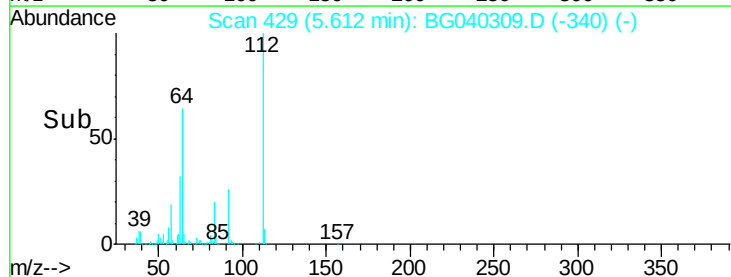
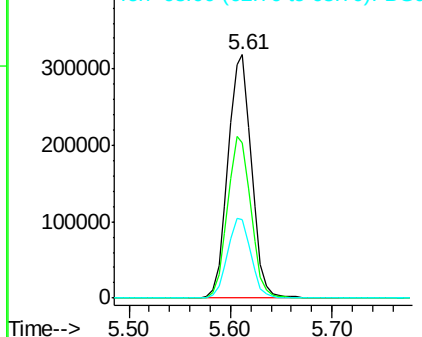
#5

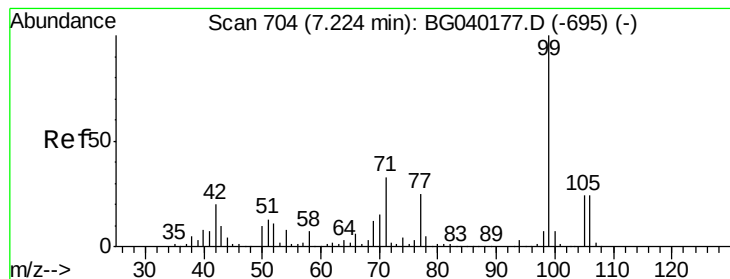
2-Fluorophenol  
 Concen: 126.136 ng  
 RT: 5.61 min Scan# 429  
 Delta R.T. -0.01 min  
 Lab File: BG040309.D  
 Acq: 2 Apr 2019 23:20

Tgt Ion:112 Resp: 512112  
 Ion Ratio Lower Upper  
 112 100  
 64 63.6 54.2 81.2  
 63 32.1 26.4 39.6



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: 115.924 ng

RT: 7.21 min Scan# 701

Delta R.T. -0.01 min

Lab File: BG040309.D

Acq: 2 Apr 2019 23:20

Instrument :

BNA\_G

ClientSampled :

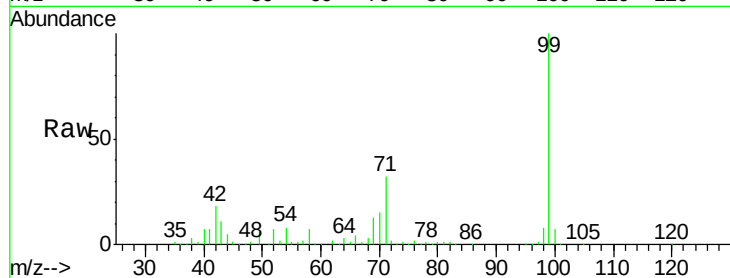
Tot Ion: 99 Resp: 650446

Ion Ratio Lower Upper

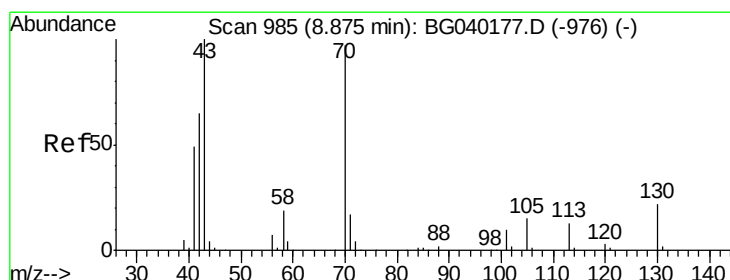
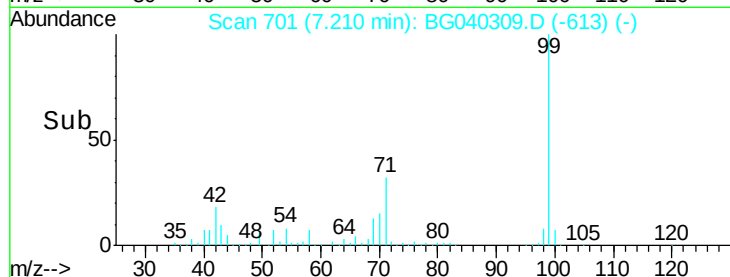
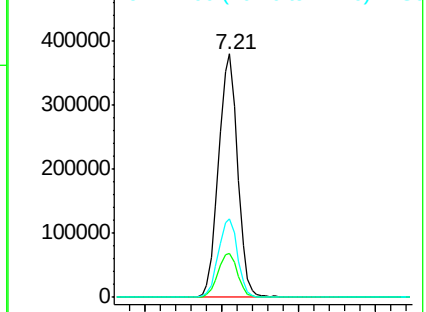
99 100

42 18.2 16.2 24.2

71 32.4 26.8 40.2



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: 15.677 ng

RT: 9.23 min Scan# 1045

Delta R.T. 0.36 min

Lab File: BG040309.D

Acq: 2 Apr 2019 23:20

Tgt Ion: 70 Resp: 63067

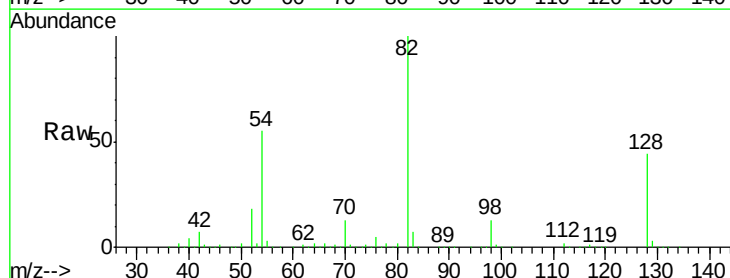
Ion Ratio Lower Upper

70 100

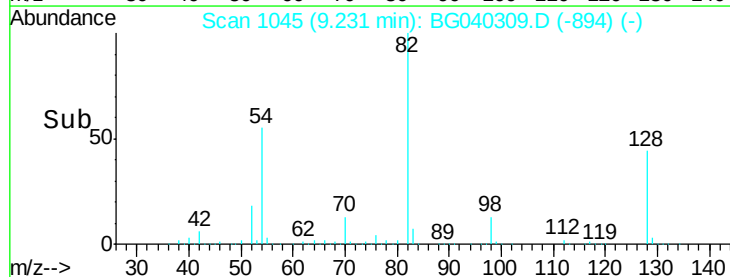
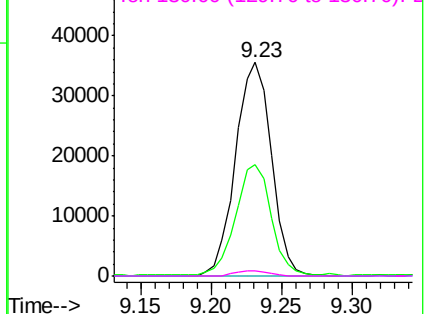
42 52.0 54.0 81.0#

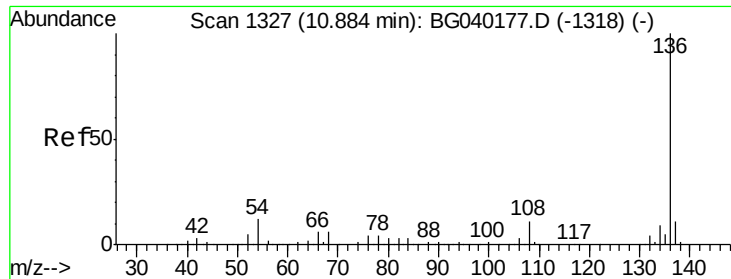
101 0.0 8.6 13.0#

130 2.2 18.2 27.2#



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

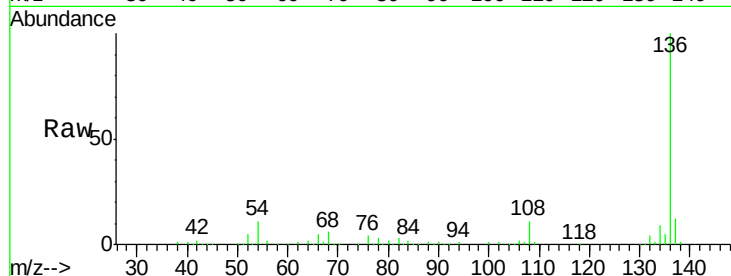




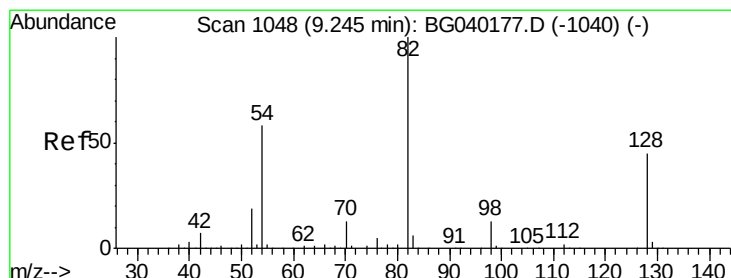
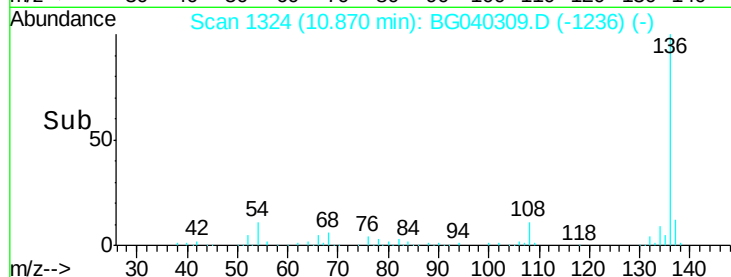
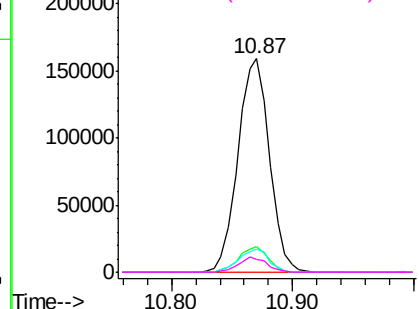
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.87 min Scan# 1324  
Delta R.T. -0.01 min  
Lab File: BG040309.D  
Acq: 2 Apr 2019 23:20

Instrument :  
BNA\_G  
ClientSampled :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 288389      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.8  | 8.9 13.3    |
| 54          | 10.6  | 9.6 14.4    |
| 68          | 6.2   | 5.1 7.7     |

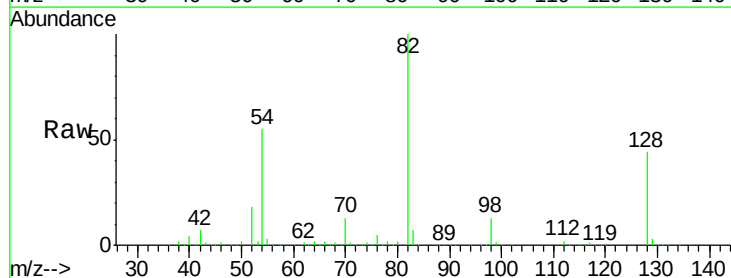


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

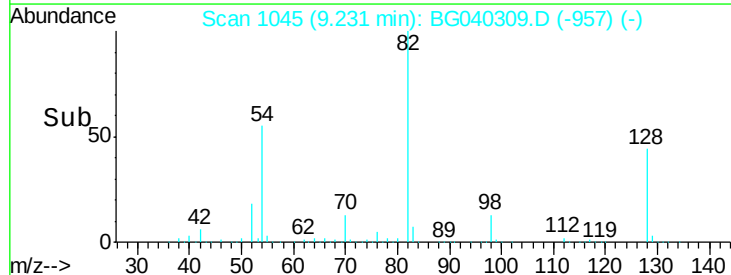
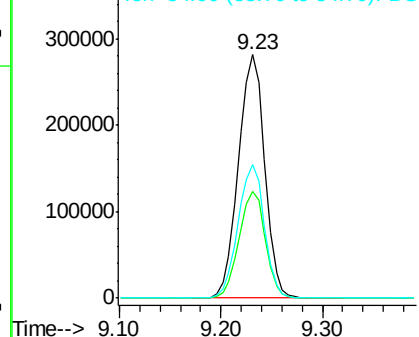


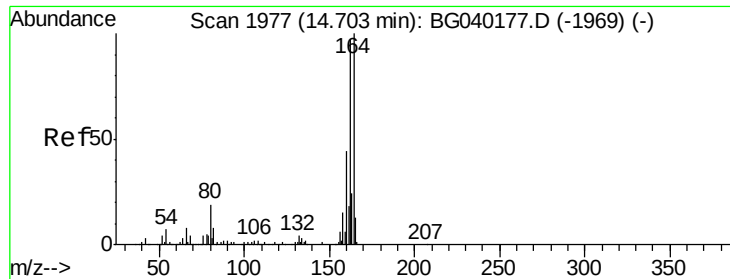
#23  
Nitrobenzene-d5  
Concen: 93.504 ng  
RT: 9.23 min Scan# 1045  
Delta R.T. -0.01 min  
Lab File: BG040309.D  
Acq: 2 Apr 2019 23:20

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 507316      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 43.7  | 35.8 53.8   |
| 54          | 54.8  | 46.2 69.2   |



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1973

Delta R.T. -0.02 min

Lab File: BG040309.D

Acq: 2 Apr 2019 23:20

Instrument :

BNA\_G

ClientSampleId :

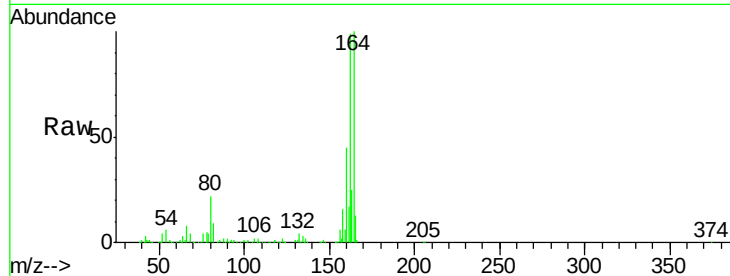
Tot Ion:164 Resp: 196841

Ion Ratio Lower Upper

164 100

162 99.3 77.4 116.2

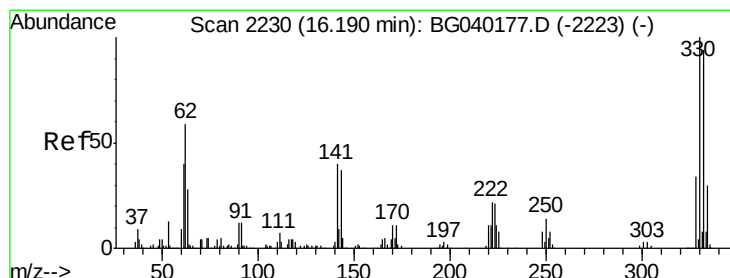
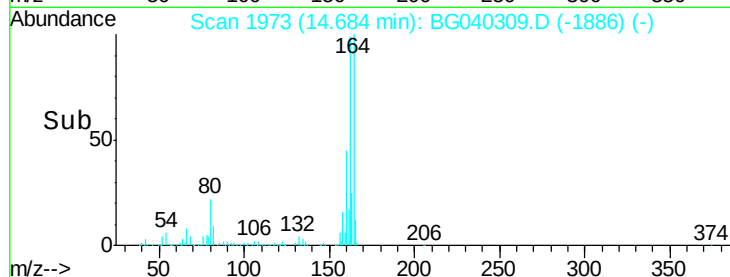
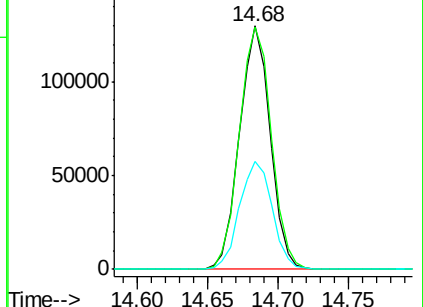
160 44.5 35.3 52.9



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



#42

2,4,6-Tribromophenol

Concen: 131.942 ng

RT: 16.17 min Scan# 2226

Delta R.T. -0.02 min

Lab File: BG040309.D

Acq: 2 Apr 2019 23:20

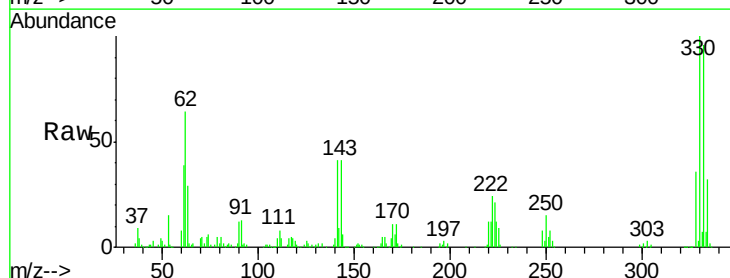
Tgt Ion:330 Resp: 280686

Ion Ratio Lower Upper

330 100

332 96.7 76.6 115.0

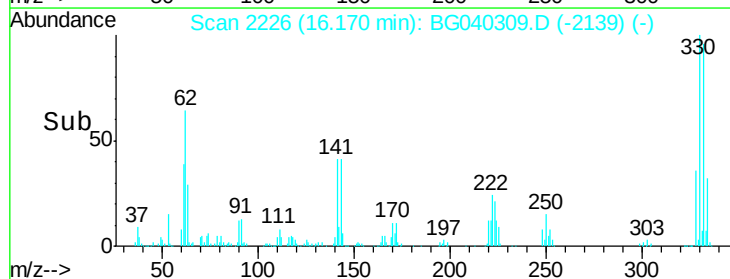
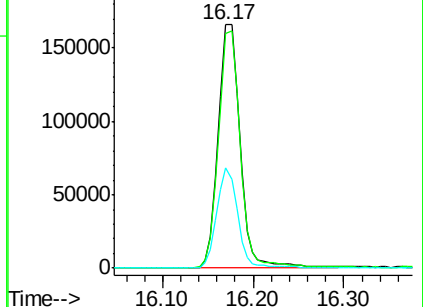
141 39.4 32.6 48.8

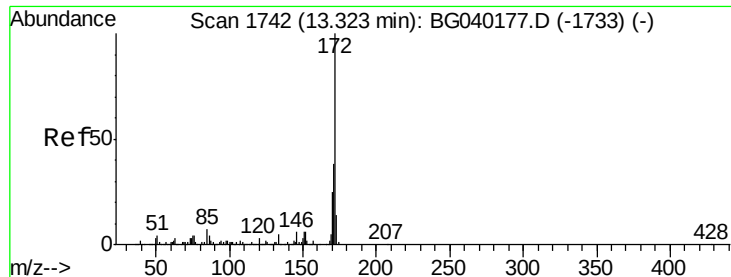


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

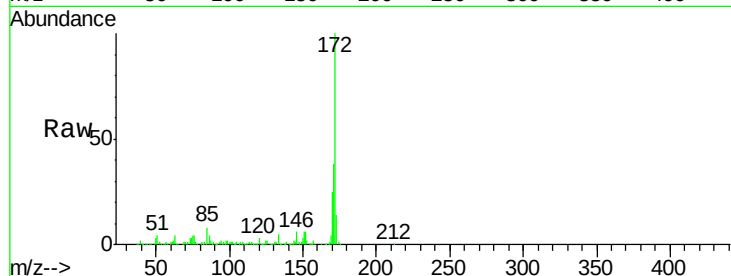




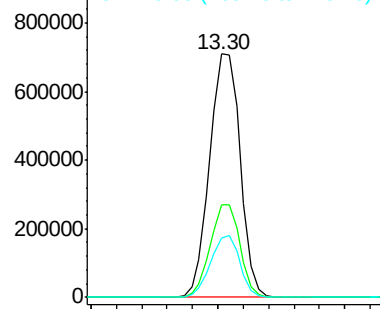
#45  
2-Fluorobiphenyl  
Concen: 89.090 ng  
RT: 13.30 min Scan# 1738  
Delta R.T. -0.02 min  
Lab File: BG040309.D  
Acq: 2 Apr 2019 23:20

Instrument :  
BNA\_G  
ClientSampleId :

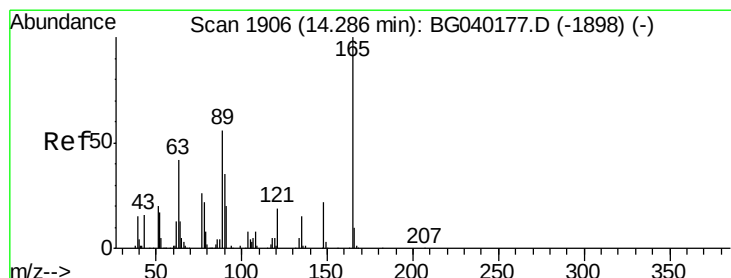
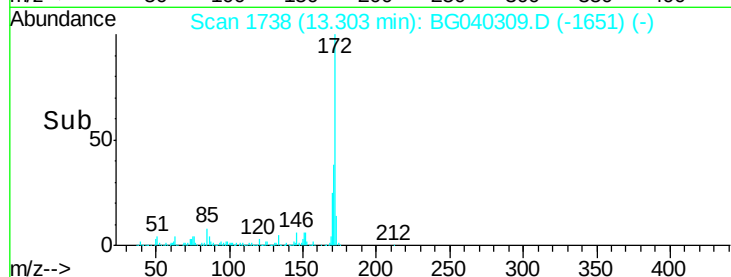
Tot Ion:172 Resp: 1183498  
Ion Ratio Lower Upper  
172 100  
171 38.0 30.5 45.7  
170 24.6 20.1 30.1



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

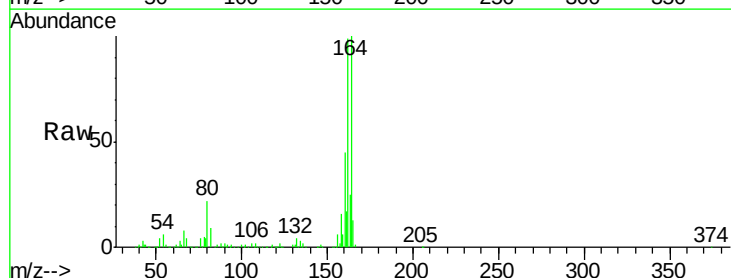


Time--> 13.20 13.30 13.40

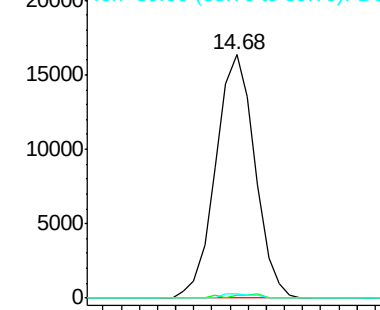


#51  
2,6-Dinitrotoluene  
Concen: 7.117 ng  
RT: 14.68 min Scan# 1973  
Delta R.T. 0.40 min  
Lab File: BG040309.D  
Acq: 2 Apr 2019 23:20

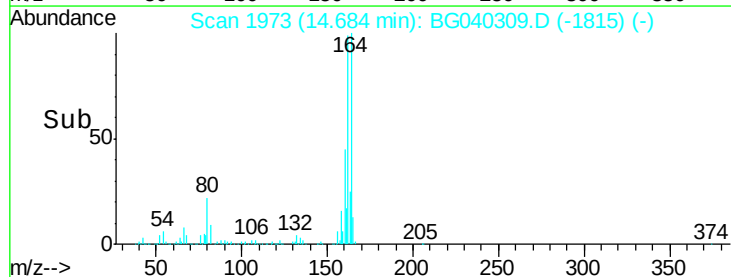
Tgt Ion:165 Resp: 24620  
Ion Ratio Lower Upper  
165 100  
63 1.0 44.1 66.1#  
89 1.8 44.9 67.3#

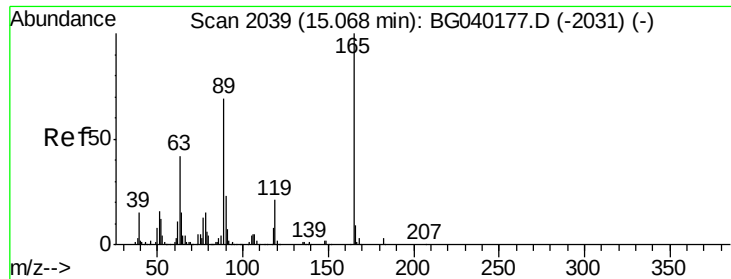


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC



Time--> 14.65 14.70 14.75

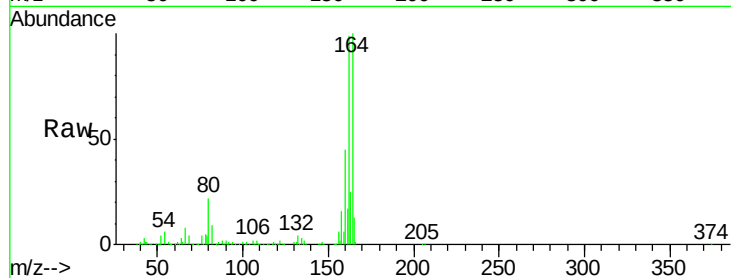




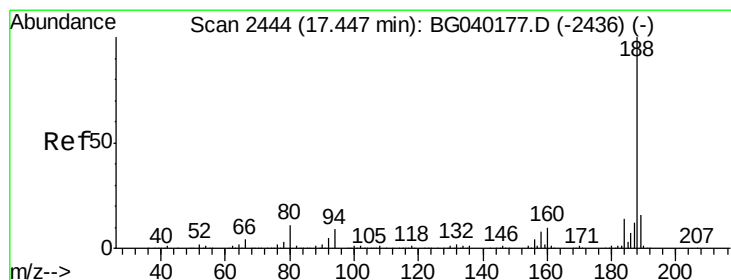
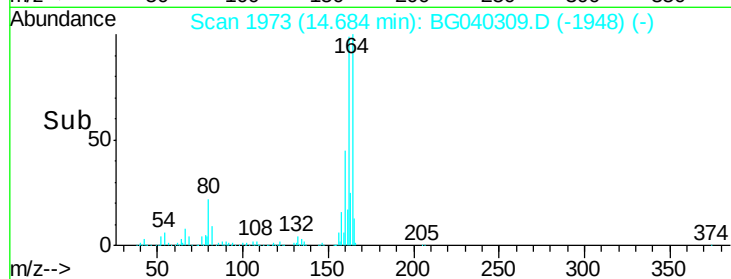
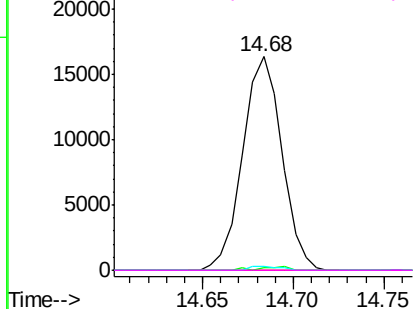
#57  
 2,4-Dinitrotoluene  
 Concen: 5.122 ng  
 RT: 14.68 min Scan# 1973  
 Delta R.T. -0.38 min  
 Lab File: BG040309.D  
 Acq: 2 Apr 2019 23:20

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:165 Resp: 24620  
 Ion Ratio Lower Upper  
 165 100  
 63 1.0 33.8 50.6#  
 89 1.8 55.4 83.2#  
 182 0.0 2.2 3.4#

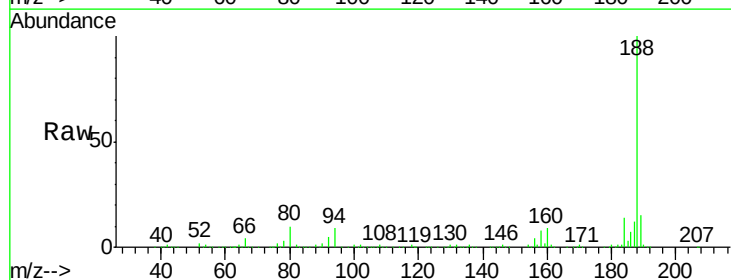


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

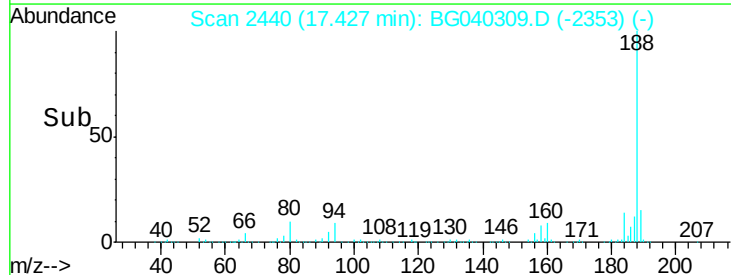
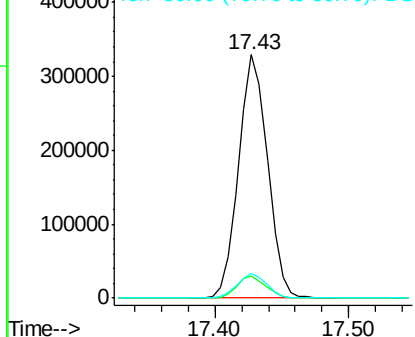


#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.43 min Scan# 2440  
 Delta R.T. -0.02 min  
 Lab File: BG040309.D  
 Acq: 2 Apr 2019 23:20

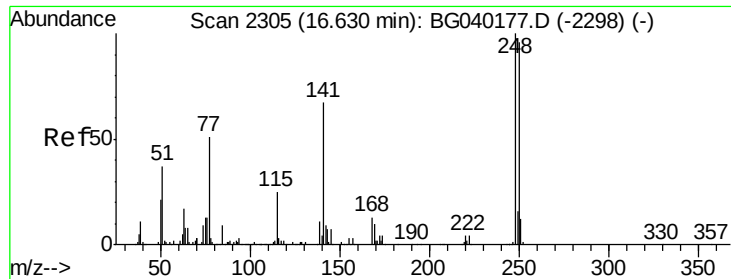
Tgt Ion:188 Resp: 494245  
 Ion Ratio Lower Upper  
 188 100  
 94 9.0 7.0 10.4  
 80 10.3 8.6 13.0



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



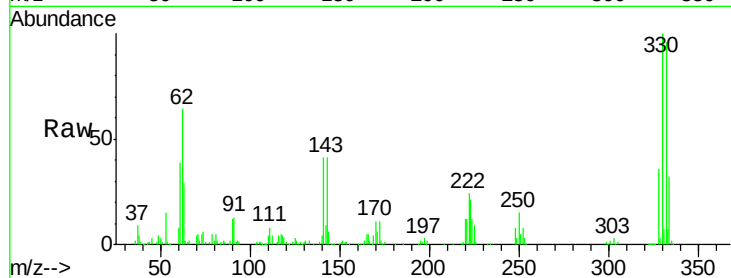




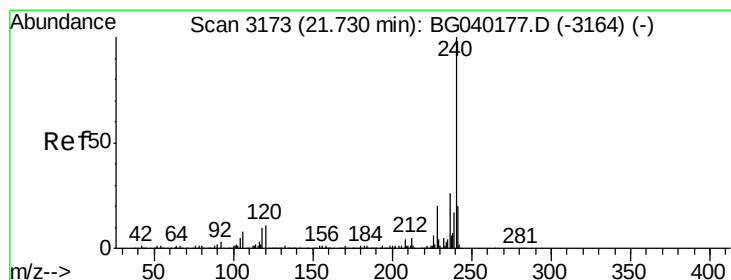
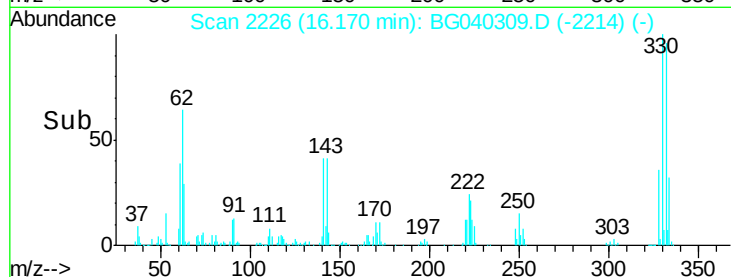
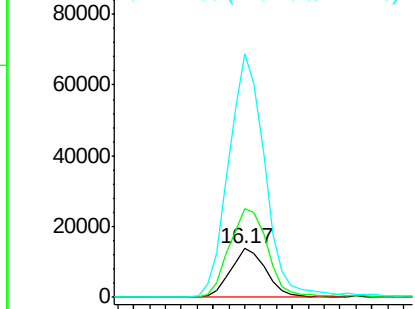
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.895 ng  
 RT: 16.17 min Scan# 2226  
 Delta R.T. -0.46 min  
 Lab File: BG040309.D  
 Acq: 2 Apr 2019 23:20

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 21665  
 Ion Ratio Lower Upper  
 248 100  
 250 181.8 76.4 114.6#  
 141 500.8 53.8 80.8#

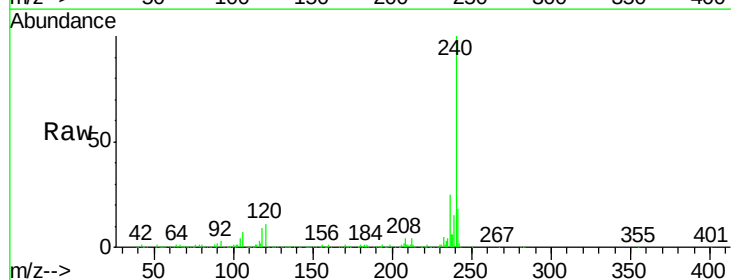


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

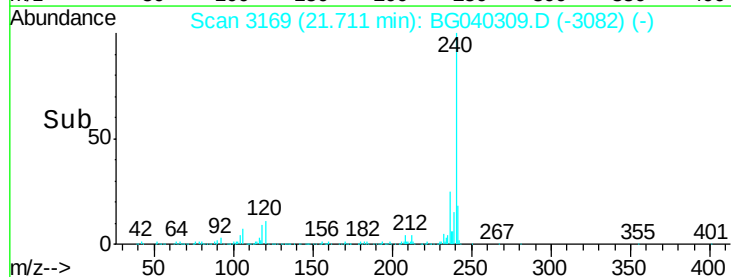
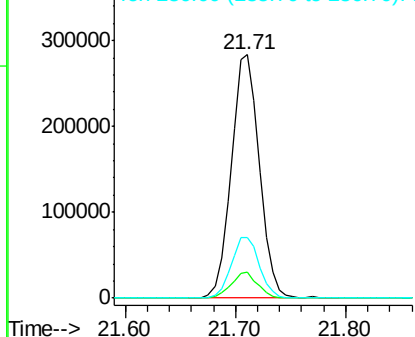


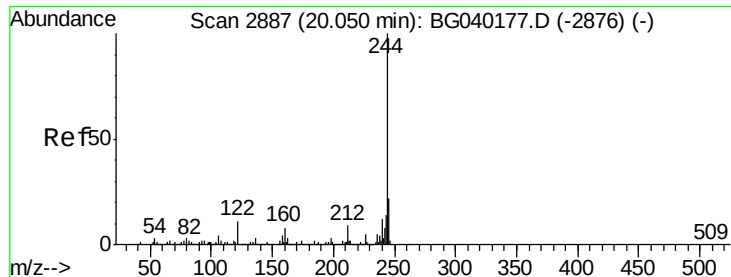
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.71 min Scan# 3169  
 Delta R.T. -0.02 min  
 Lab File: BG040309.D  
 Acq: 2 Apr 2019 23:20

Tgt Ion:240 Resp: 506256  
 Ion Ratio Lower Upper  
 240 100  
 120 10.6 8.4 12.6  
 236 25.1 20.8 31.2



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





#79

Terphenyl-d14

Concen: 87.642 ng

RT: 20.04 min Scan# 2884

Delta R.T. -0.01 min

Lab File: BG040309.D

Acq: 2 Apr 2019 23:20

Instrument :

BNA\_G

ClientSampleId :

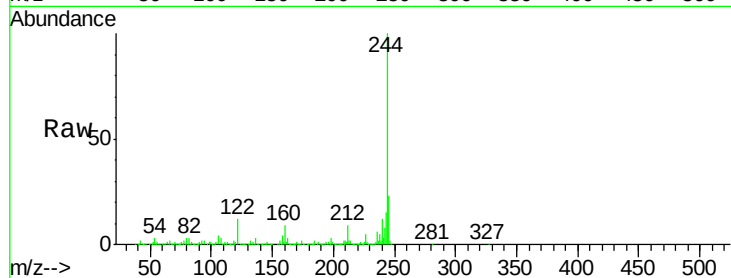
Tot Ion:244 Resp: 1972264

Ion Ratio Lower Upper

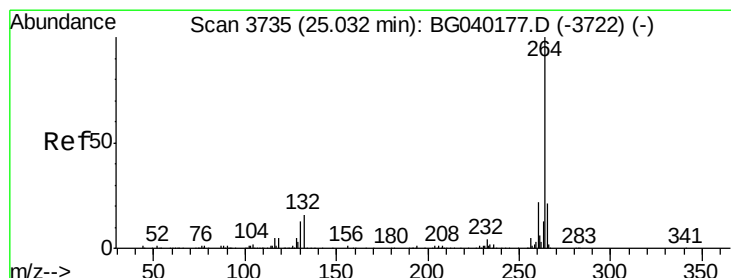
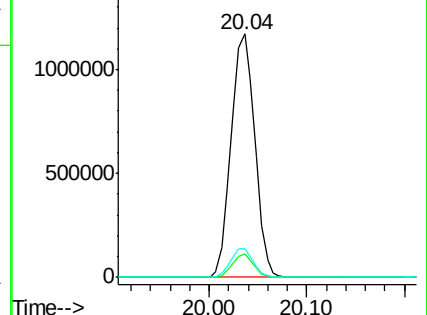
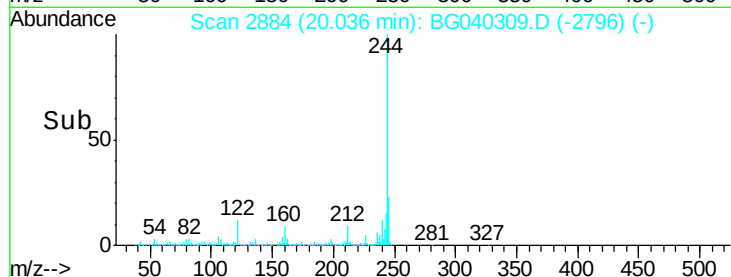
244 100

212 9.5 7.0 10.6

122 11.9 8.5 12.7



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: 25.02 min Scan# 3732

Delta R.T. -0.01 min

Lab File: BG040309.D

Acq: 2 Apr 2019 23:20

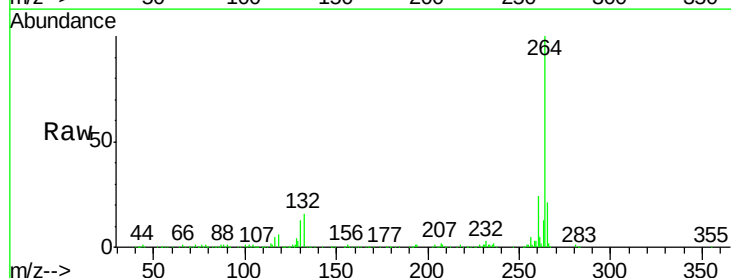
Tgt Ion:264 Resp: 495091

Ion Ratio Lower Upper

264 100

260 24.0 17.9 26.9

265 20.9 16.8 25.2



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

