

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041519\  
 Data File : BG040486.D  
 Acq On : 15 Apr 2019 19:00  
 Operator : JU/SJ  
 Sample : PB118896TB  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 15 23:22:49 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

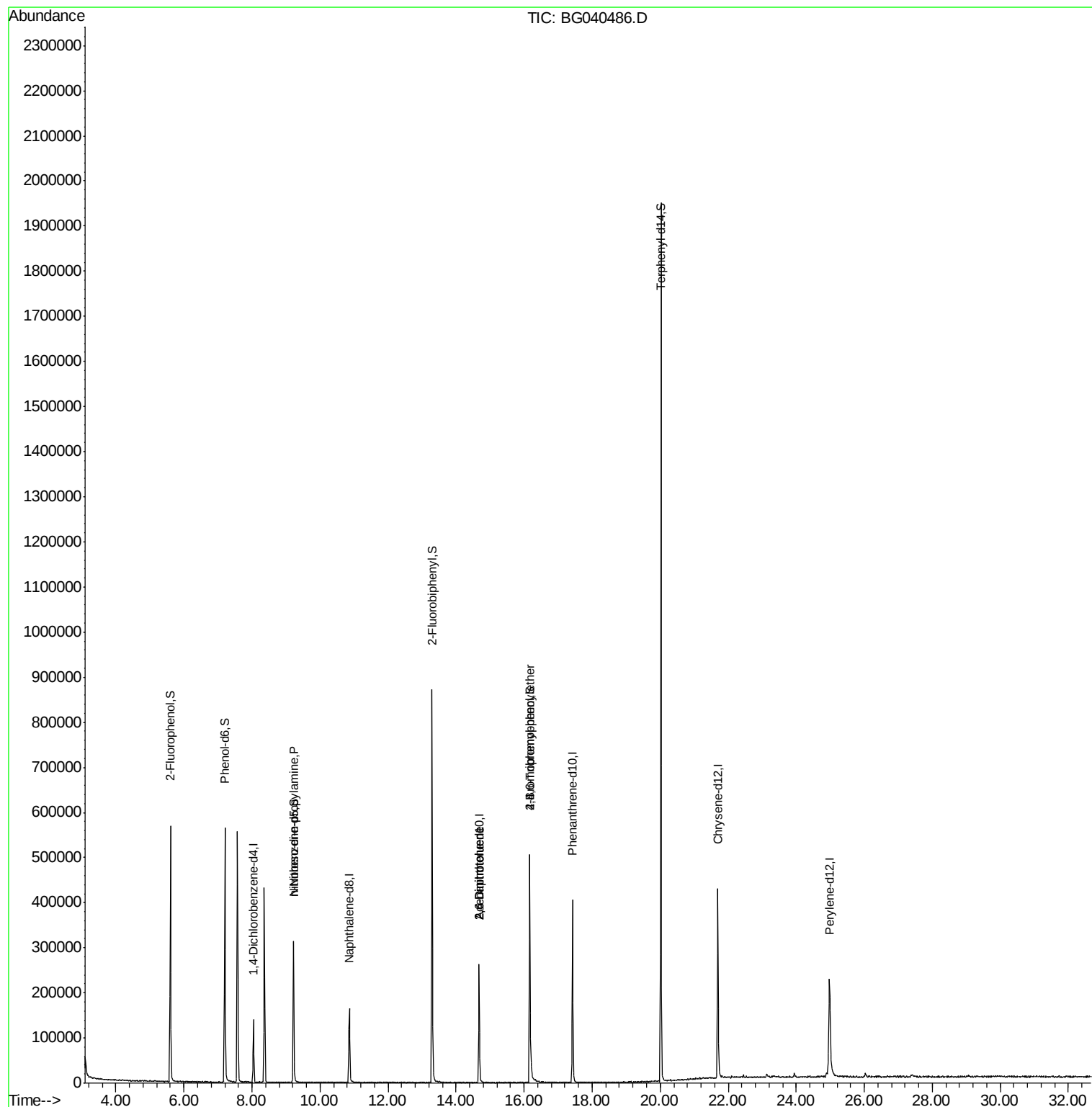
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.05  | 152  | 39893    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8             | 10.86 | 136  | 160684   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10           | 14.67 | 164  | 101014   | 20.00  | ng    | -0.03    |
| 64) Phenanthrene-d10           | 17.42 | 188  | 273125   | 20.00  | ng    | -0.02    |
| 76) Chrysene-d12               | 21.70 | 240  | 275729   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12               | 24.98 | 264  | 289606   | 20.00  | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 256652   | 106.95 | ng    | -0.02    |
| 7) Phenol-d6                   | 7.20  | 99   | 355789   | 107.28 | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 9.22  | 82   | 206517   | 68.31  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 16.17 | 330  | 109201   | 100.03 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 13.29 | 172  | 497628   | 73.00  | ng    | -0.03    |
| 79) Terphenyl-d14              | 20.02 | 244  | 918004   | 74.90  | ng    | -0.03    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.22  | 70   | 26161    | 11.002 | ng    | # 78     |
| 51) 2,6-Dinitrotoluene         | 14.67 | 165  | 13386    | 7.541  | ng    | # 25     |
| 57) 2,4-Dinitrotoluene         | 14.67 | 165  | 13386    | 5.427  | ng    | # 25     |
| 67) 4-Bromophenyl-phenylether  | 16.17 | 248  | 8662     | 2.818  | ng    | # 1      |

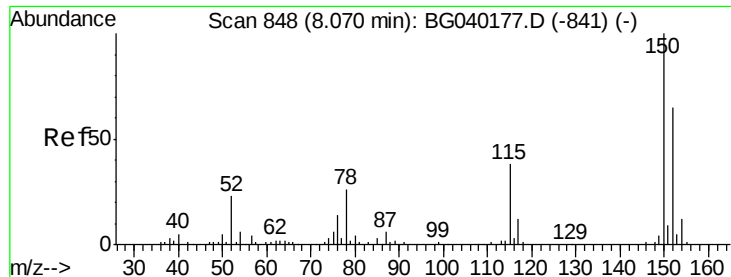
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG041519\  
Data File : BG040486.D  
Acq On : 15 Apr 2019 19:00  
Operator : JU/SJ  
Sample : PB118896TB  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Apr 15 23:22:49 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



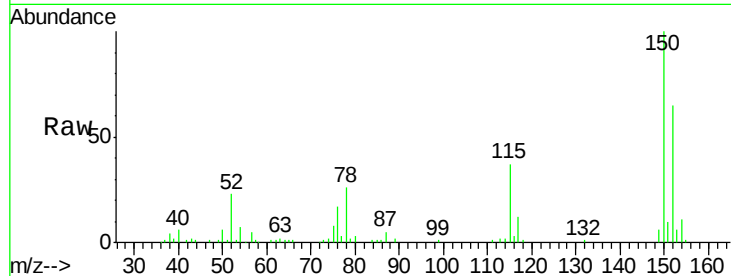


#1

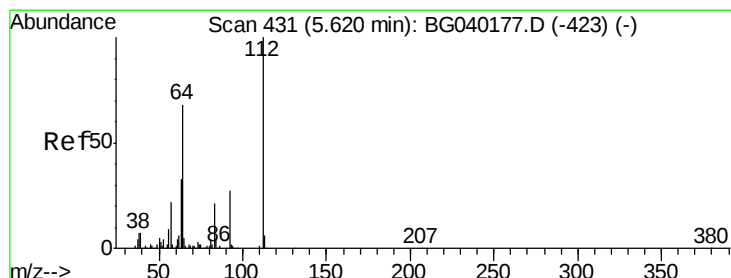
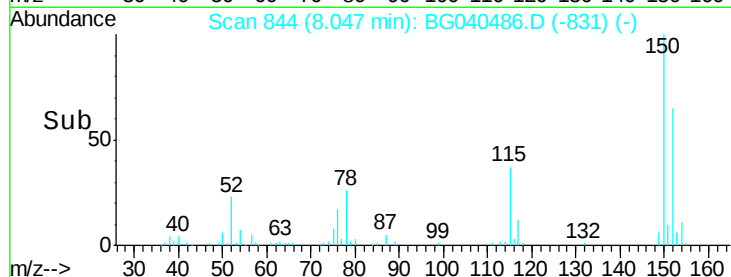
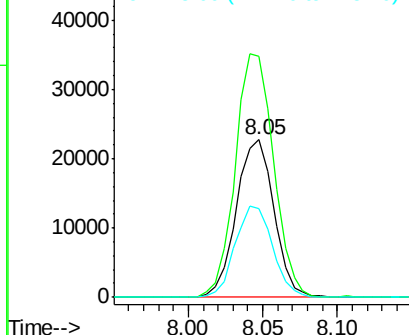
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 844  
Delta R.T. -0.02 min  
Lab File: BG040486.D  
Acq: 15 Apr 2019 19:00

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 39893  
Ion Ratio Lower Upper  
152 100  
150 152.7 123.7 185.5  
115 56.6 46.9 70.3



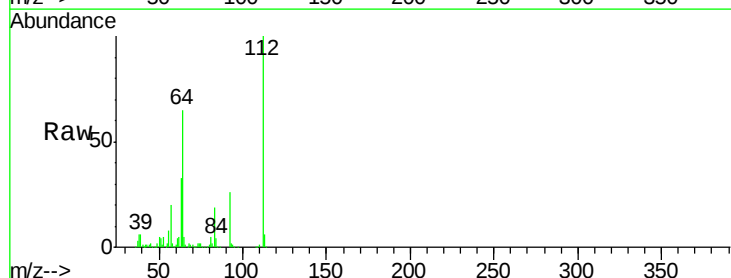
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



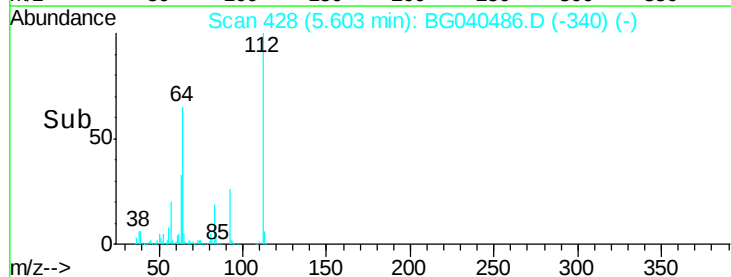
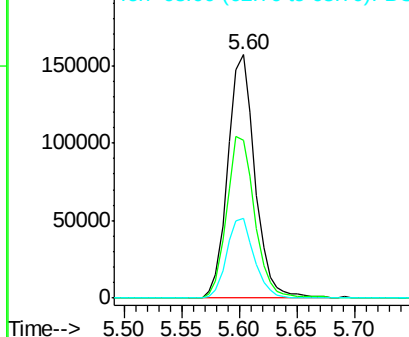
#5

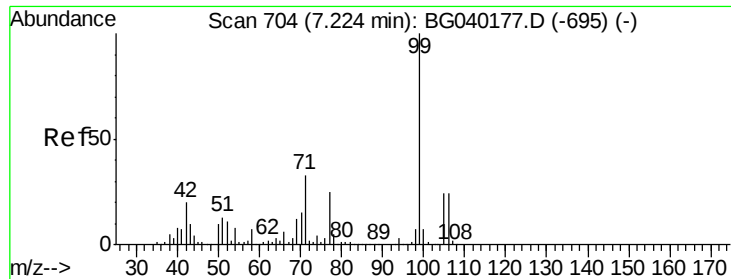
2-Fluorophenol  
Concen: 106.951 ng  
RT: 5.60 min Scan# 428  
Delta R.T. -0.02 min  
Lab File: BG040486.D  
Acq: 15 Apr 2019 19:00

Tgt Ion:112 Resp: 256652  
Ion Ratio Lower Upper  
112 100  
64 64.7 54.2 81.2  
63 32.8 26.4 39.6



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BGO  
Ion 63.00 (62.70 to 63.70): BGO





#7

Phenol-d6

Concen: 107.281 ng

RT: 7.20 min Scan# 700

Delta R.T. -0.02 min

Lab File: BG040486.D

Acq: 15 Apr 2019 19:00

Instrument :

BNA\_G

ClientSampled :

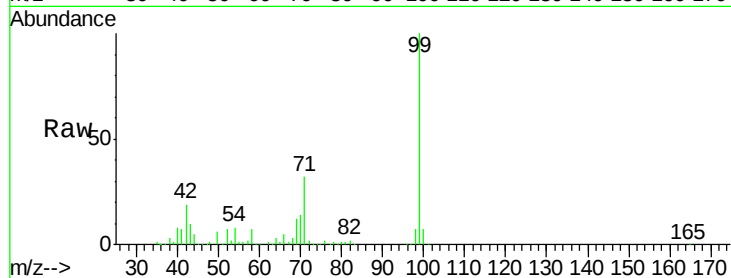
Tot Ion: 99 Resp: 355789

Ion Ratio Lower Upper

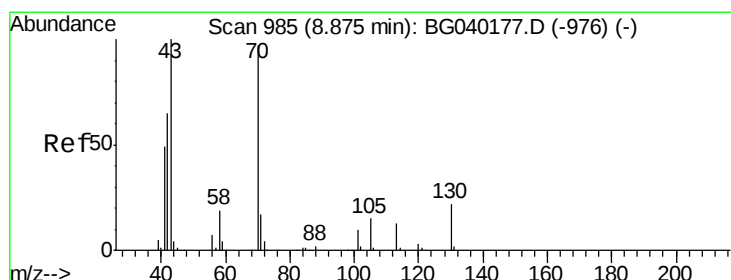
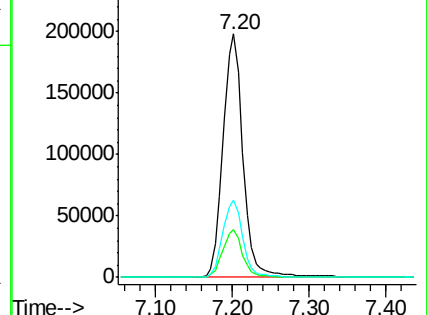
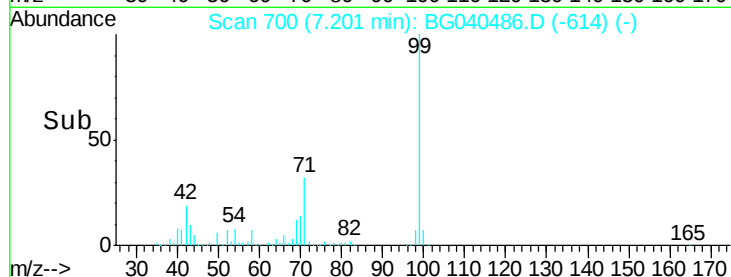
99 100

42 19.5 16.2 24.2

71 31.7 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: 11.002 ng

RT: 9.22 min Scan# 1044

Delta R.T. 0.35 min

Lab File: BG040486.D

Acq: 15 Apr 2019 19:00

Tgt Ion: 70 Resp: 26161

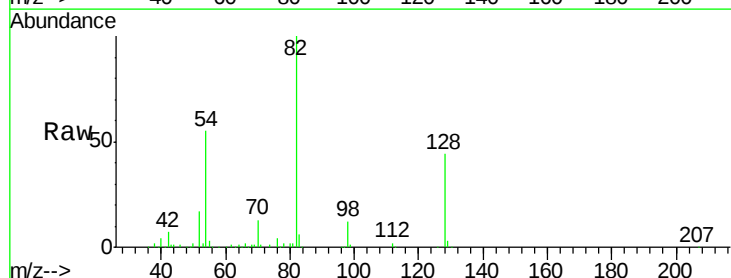
Ion Ratio Lower Upper

70 100

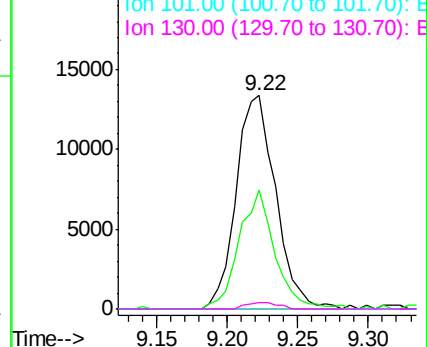
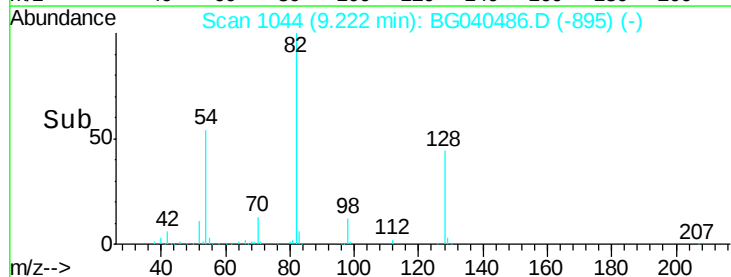
42 55.5 54.0 81.0

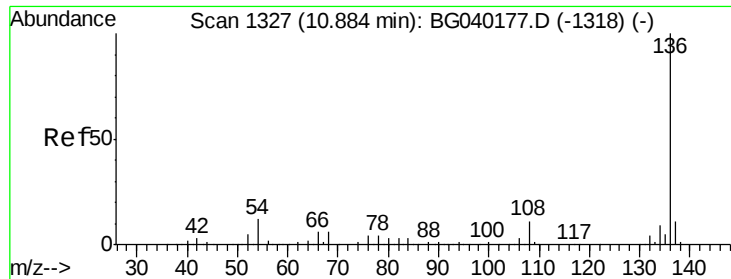
101 0.0 8.6 13.0#

130 2.8 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

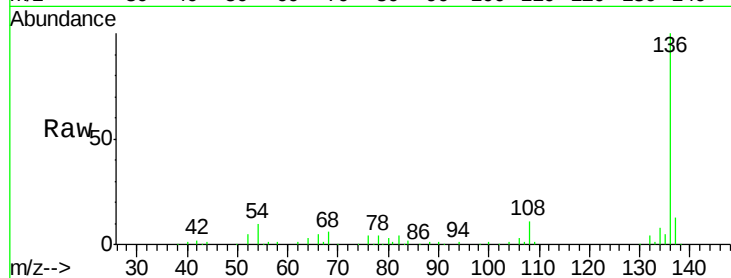




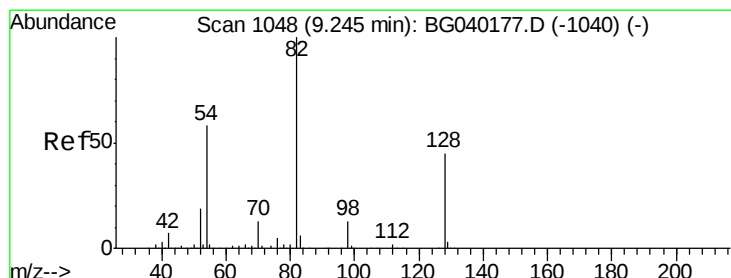
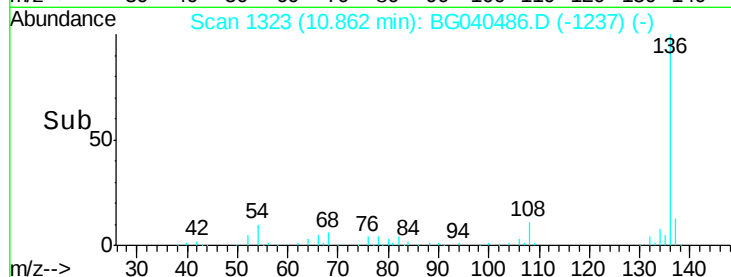
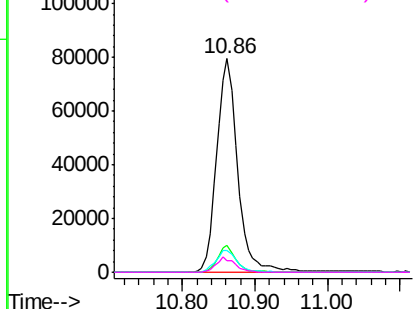
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1323  
Delta R.T. -0.02 min  
Lab File: BG040486.D  
Acq: 15 Apr 2019 19:00

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 160684      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 12.6  | 8.9 13.3    |
| 54          | 10.1  | 9.6 14.4    |
| 68          | 5.6   | 5.1 7.7     |

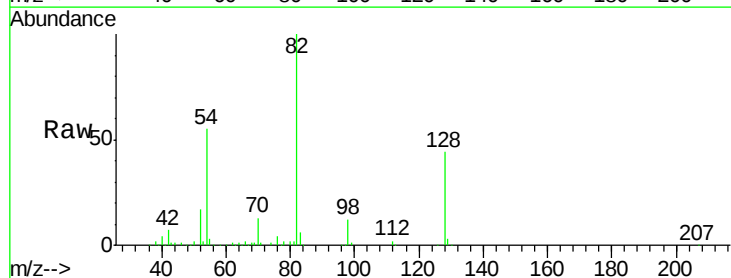


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

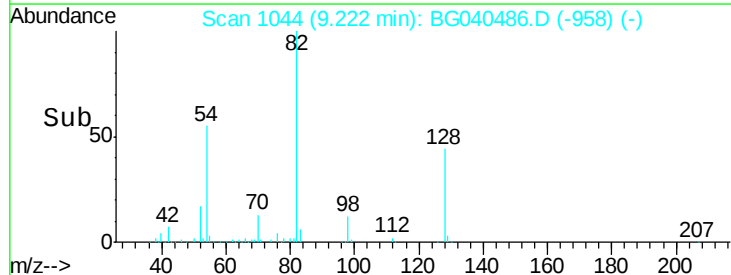
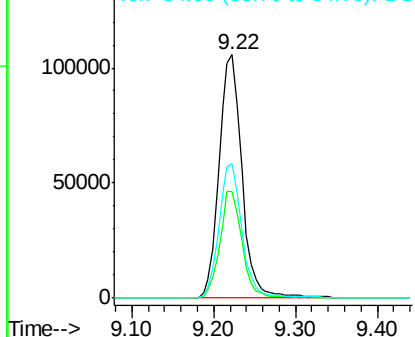


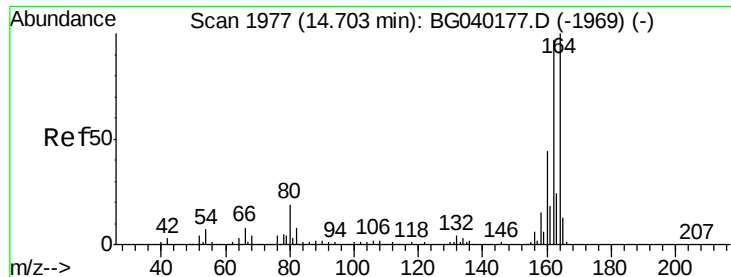
#23  
Nitrobenzene-d5  
Concen: 68.315 ng  
RT: 9.22 min Scan# 1044  
Delta R.T. -0.02 min  
Lab File: BG040486.D  
Acq: 15 Apr 2019 19:00

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 206517      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 43.9  | 35.8 53.8   |
| 54          | 55.3  | 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

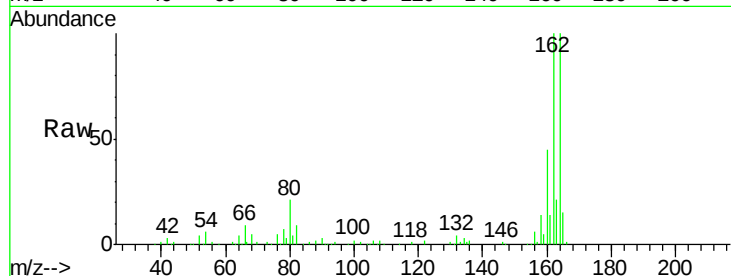




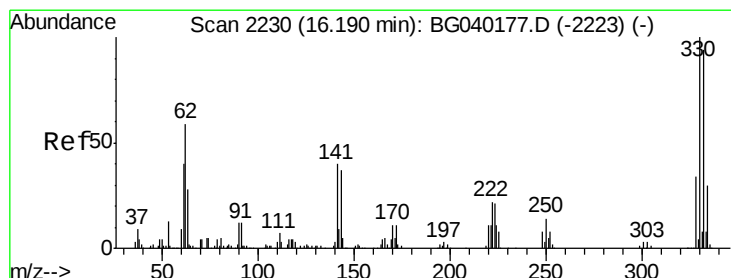
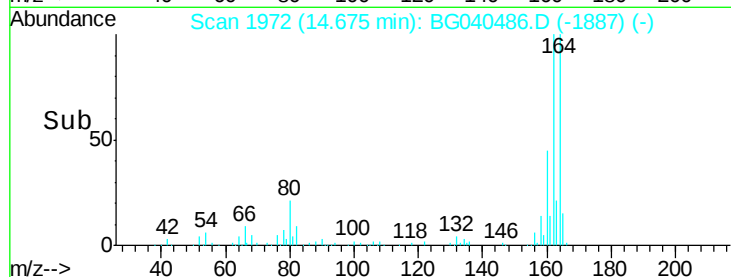
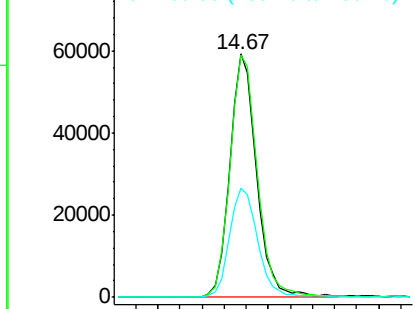
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.67 min Scan# 1972  
Delta R.T. -0.03 min  
Lab File: BG040486.D  
Acq: 15 Apr 2019 19:00

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:164 Resp: 101014  
Ion Ratio Lower Upper  
164 100  
162 99.6 77.4 116.2  
160 44.6 35.3 52.9

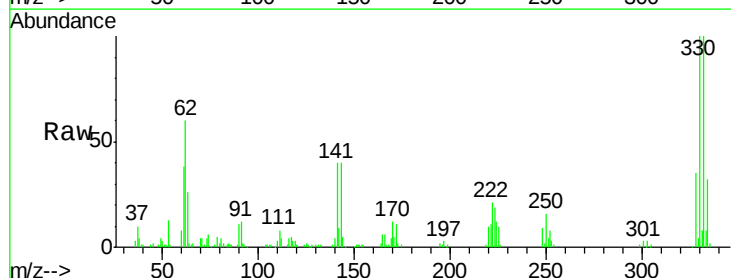


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

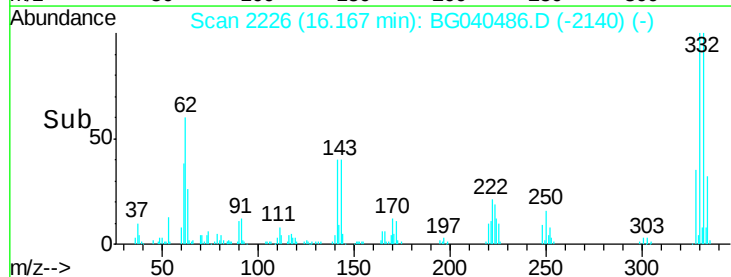
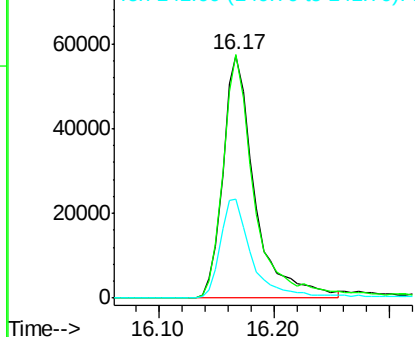


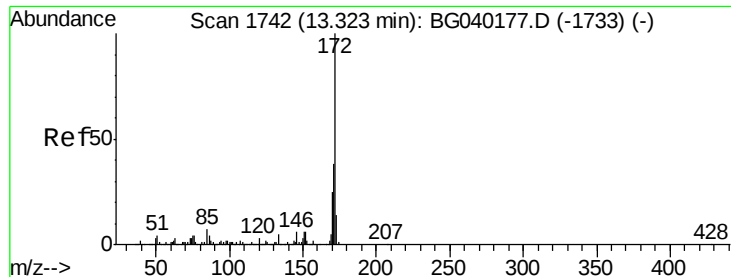
#42  
2,4,6-Tribromophenol  
Concen: 100.029 ng  
RT: 16.17 min Scan# 2226  
Delta R.T. -0.02 min  
Lab File: BG040486.D  
Acq: 15 Apr 2019 19:00

Tgt Ion:330 Resp: 109201  
Ion Ratio Lower Upper  
330 100  
332 100.4 76.6 115.0  
141 40.2 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

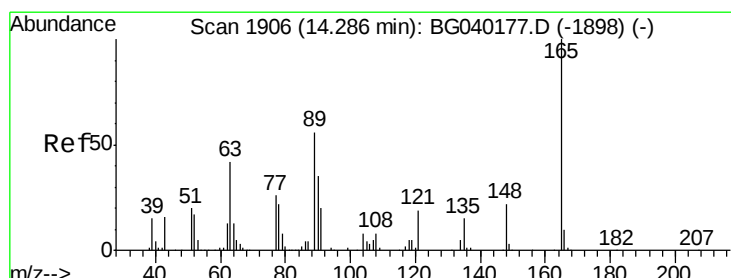
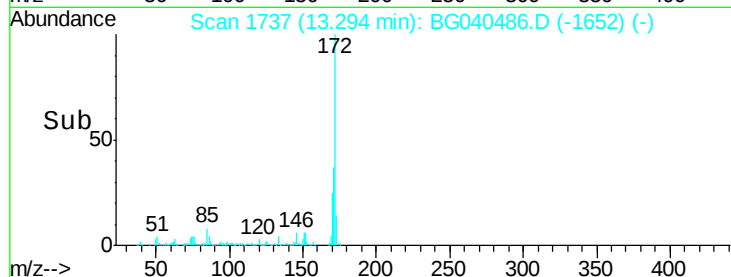
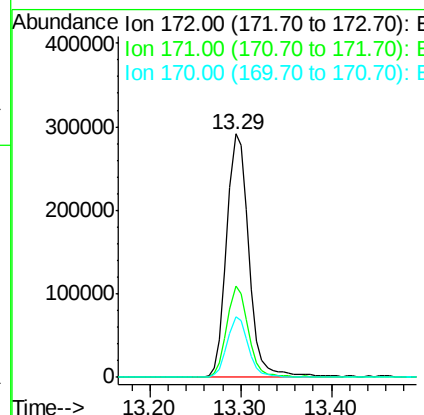
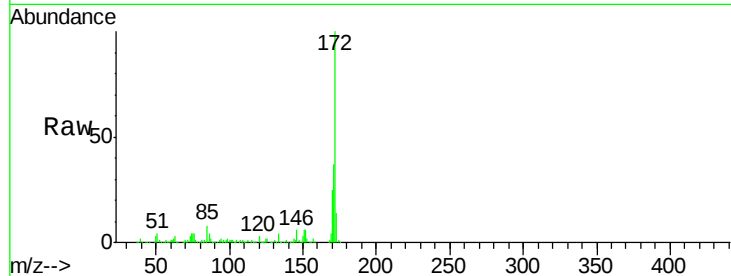




#45  
2-Fluorobiphenyl  
Concen: 72.996 ng  
RT: 13.29 min Scan# 1737  
Delta R.T. -0.03 min  
Lab File: BG040486.D  
Acq: 15 Apr 2019 19:00

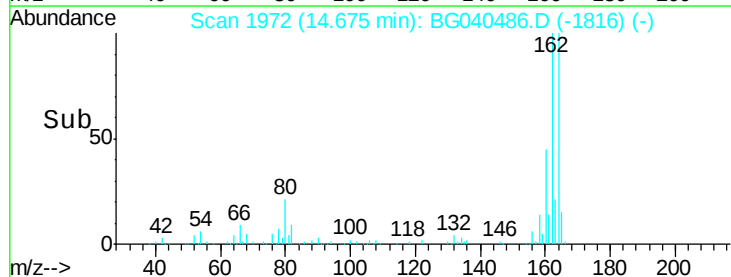
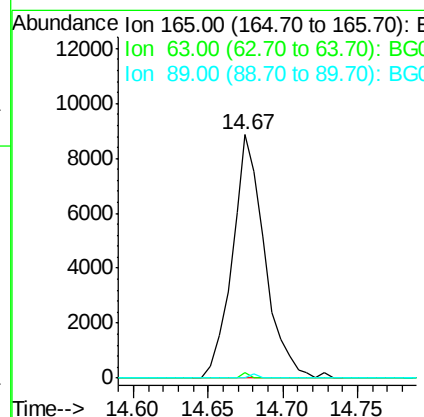
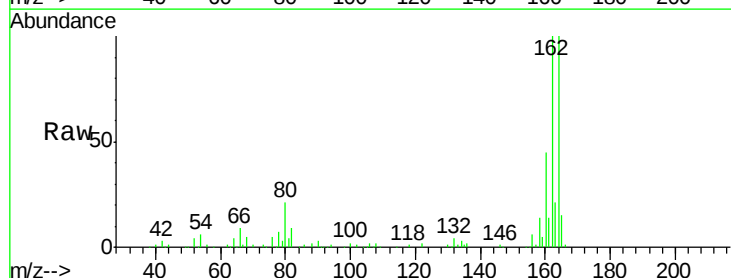
Instrument :  
BNA\_G  
ClientSampleId :

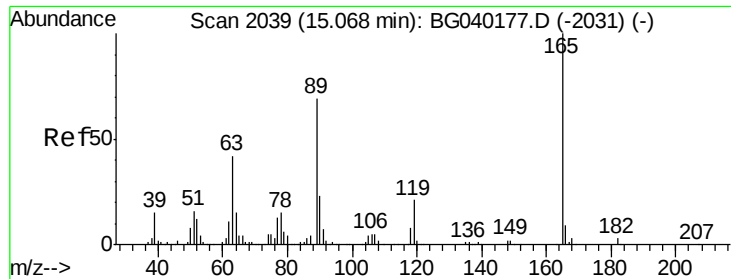
Tot Ion:172 Resp: 497628  
Ion Ratio Lower Upper  
172 100  
171 37.4 30.5 45.7  
170 24.6 20.1 30.1



#51  
2,6-Dinitrotoluene  
Concen: 7.541 ng  
RT: 14.67 min Scan# 1972  
Delta R.T. 0.39 min  
Lab File: BG040486.D  
Acq: 15 Apr 2019 19:00

Tgt Ion:165 Resp: 13386  
Ion Ratio Lower Upper  
165 100  
63 2.5 44.1 66.1#  
89 0.0 44.9 67.3#

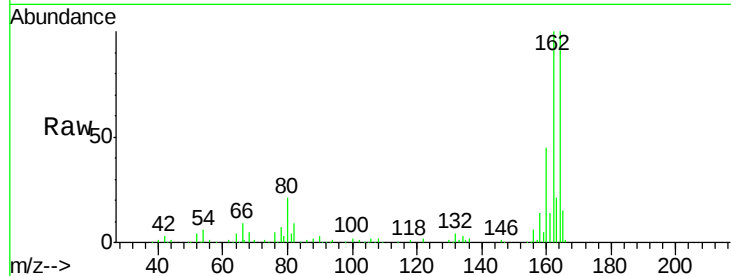




#57  
 2,4-Dinitrotoluene  
 Concen: 5.427 ng  
 RT: 14.67 min Scan# 1972  
 Delta R.T. -0.39 min  
 Lab File: BG040486.D  
 Acq: 15 Apr 2019 19:00

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.5   | 33.8  | 50.6# |
| 89      | 0.0   | 55.4  | 83.2# |
| 182     | 0.0   | 2.2   | 3.4#  |

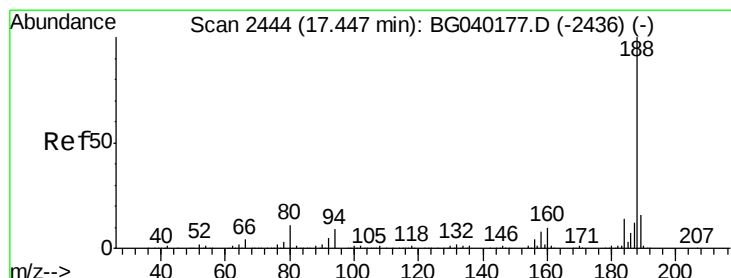
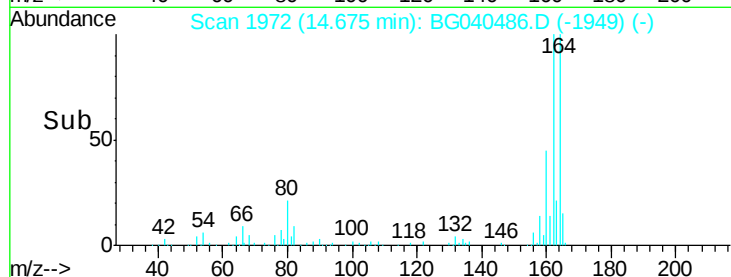
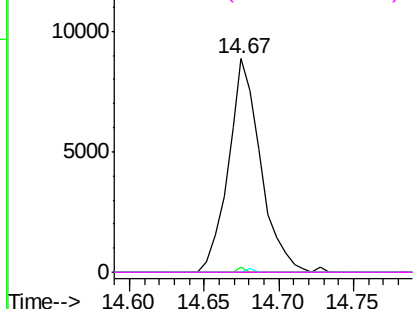


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

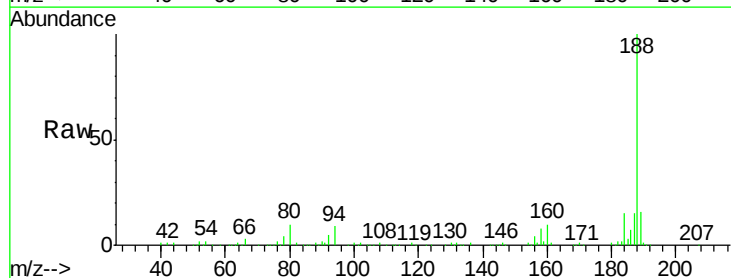
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.42 min Scan# 2440  
 Delta R.T. -0.02 min  
 Lab File: BG040486.D  
 Acq: 15 Apr 2019 19:00

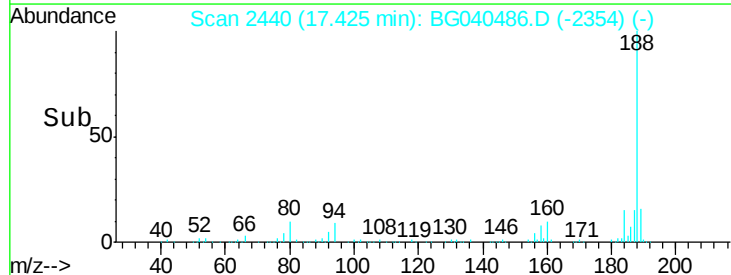
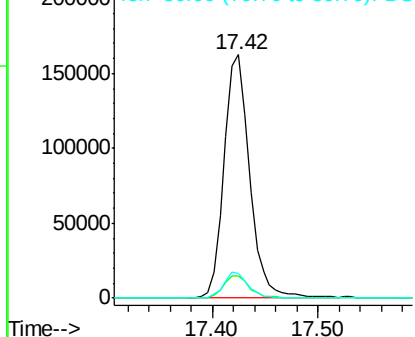
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.9   | 7.0   | 10.4  |
| 80      | 10.3  | 8.6   | 13.0  |

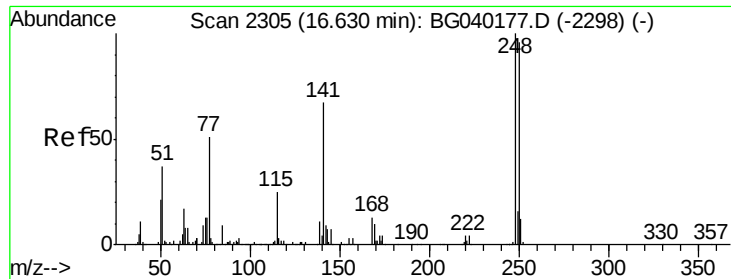


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

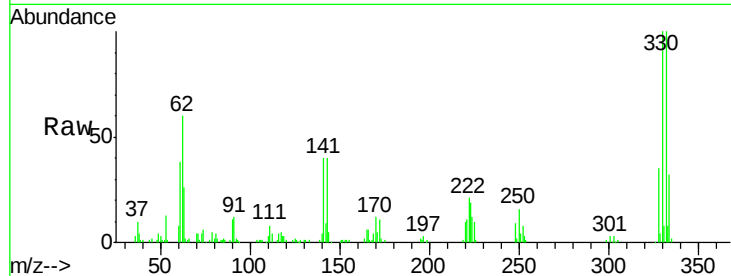




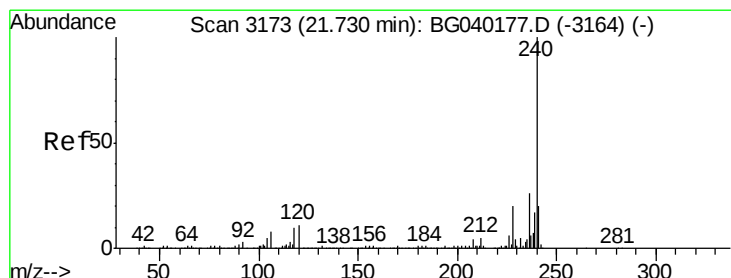
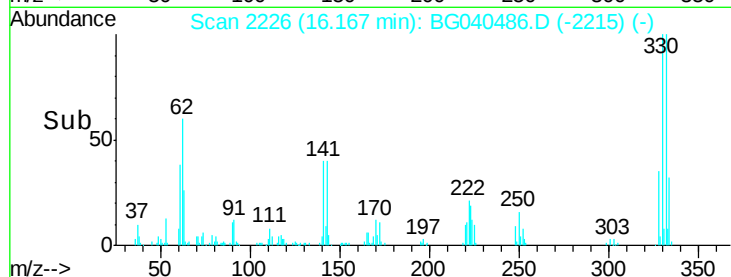
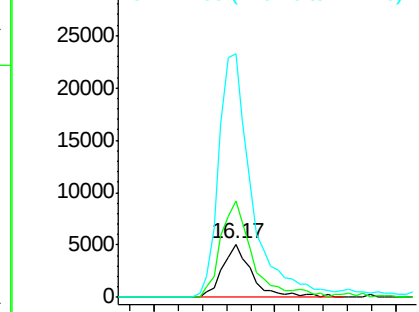
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.818 ng  
 RT: 16.17 min Scan# 2226  
 Delta R.T. -0.46 min  
 Lab File: BG040486.D  
 Acq: 15 Apr 2019 19:00

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 8662  
 Ion Ratio Lower Upper  
 248 100  
 250 179.9 76.4 114.6#  
 141 455.0 53.8 80.8#

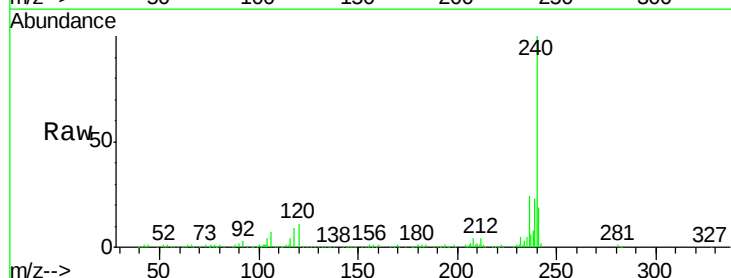


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

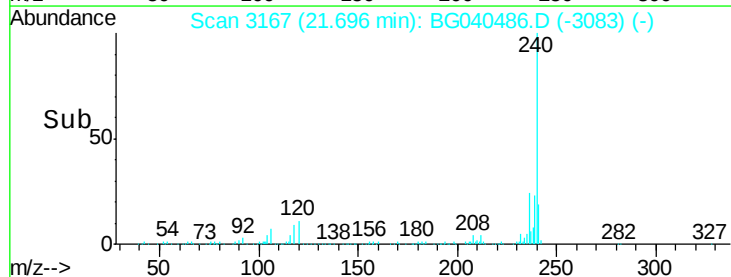
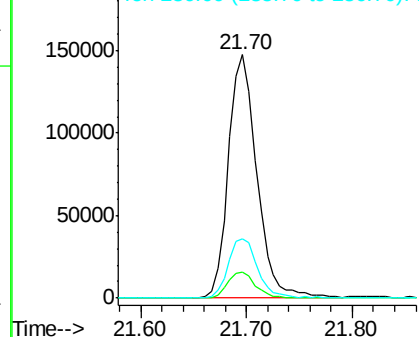


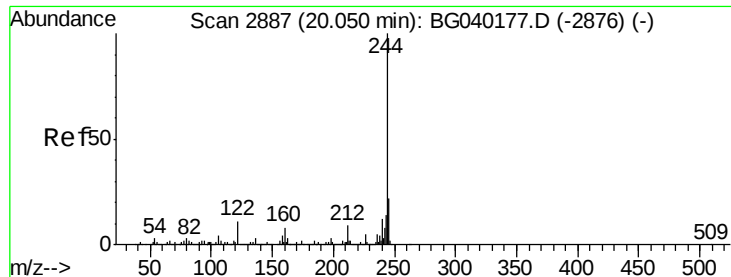
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.70 min Scan# 3167  
 Delta R.T. -0.03 min  
 Lab File: BG040486.D  
 Acq: 15 Apr 2019 19:00

Tgt Ion:240 Resp: 275729  
 Ion Ratio Lower Upper  
 240 100  
 120 10.6 8.4 12.6  
 236 24.4 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: 74.899 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.03 min

Lab File: BG040486.D

Acq: 15 Apr 2019 19:00

Instrument :

BNA\_G

ClientSampled :

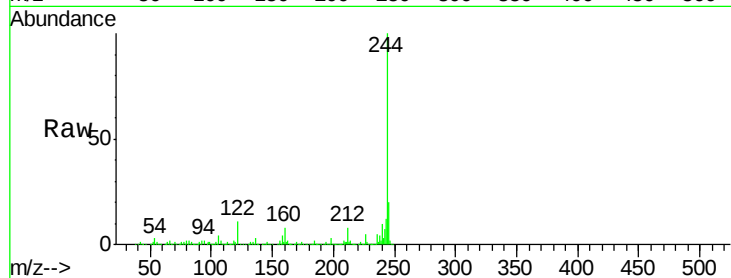
Tot Ion:244 Resp: 918004

Ion Ratio Lower Upper

244 100

212 8.0 7.0 10.6

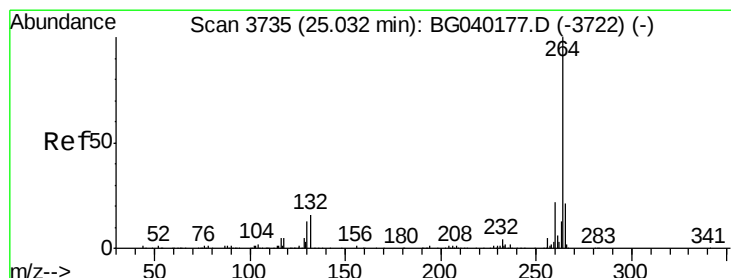
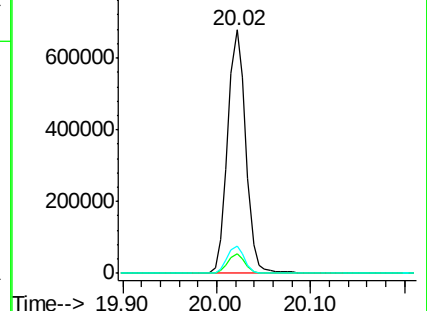
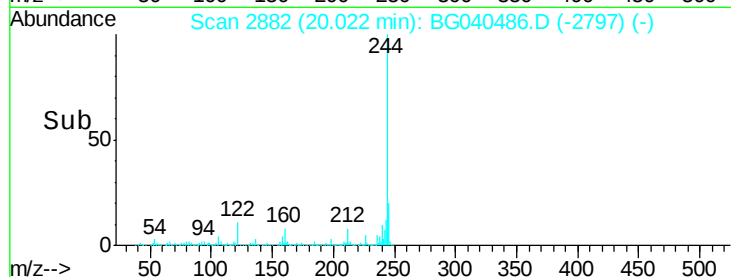
122 11.4 8.5 12.7



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: 24.98 min Scan# 3726

Delta R.T. -0.05 min

Lab File: BG040486.D

Acq: 15 Apr 2019 19:00

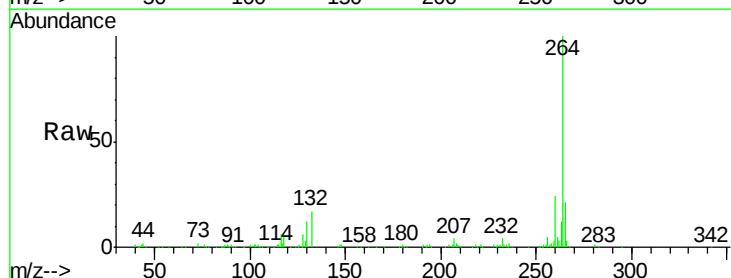
Tgt Ion:264 Resp: 289606

Ion Ratio Lower Upper

264 100

260 24.1 17.9 26.9

265 21.3 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

