

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG071818\  
 Data File : BG035729.D  
 Acq On : 18 Jul 2018 22:48  
 Operator : JU/SJ  
 Sample : J4016-06  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jul 19 02:04:00 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 18 17:45:13 2018  
 Response via : Initial Calibration

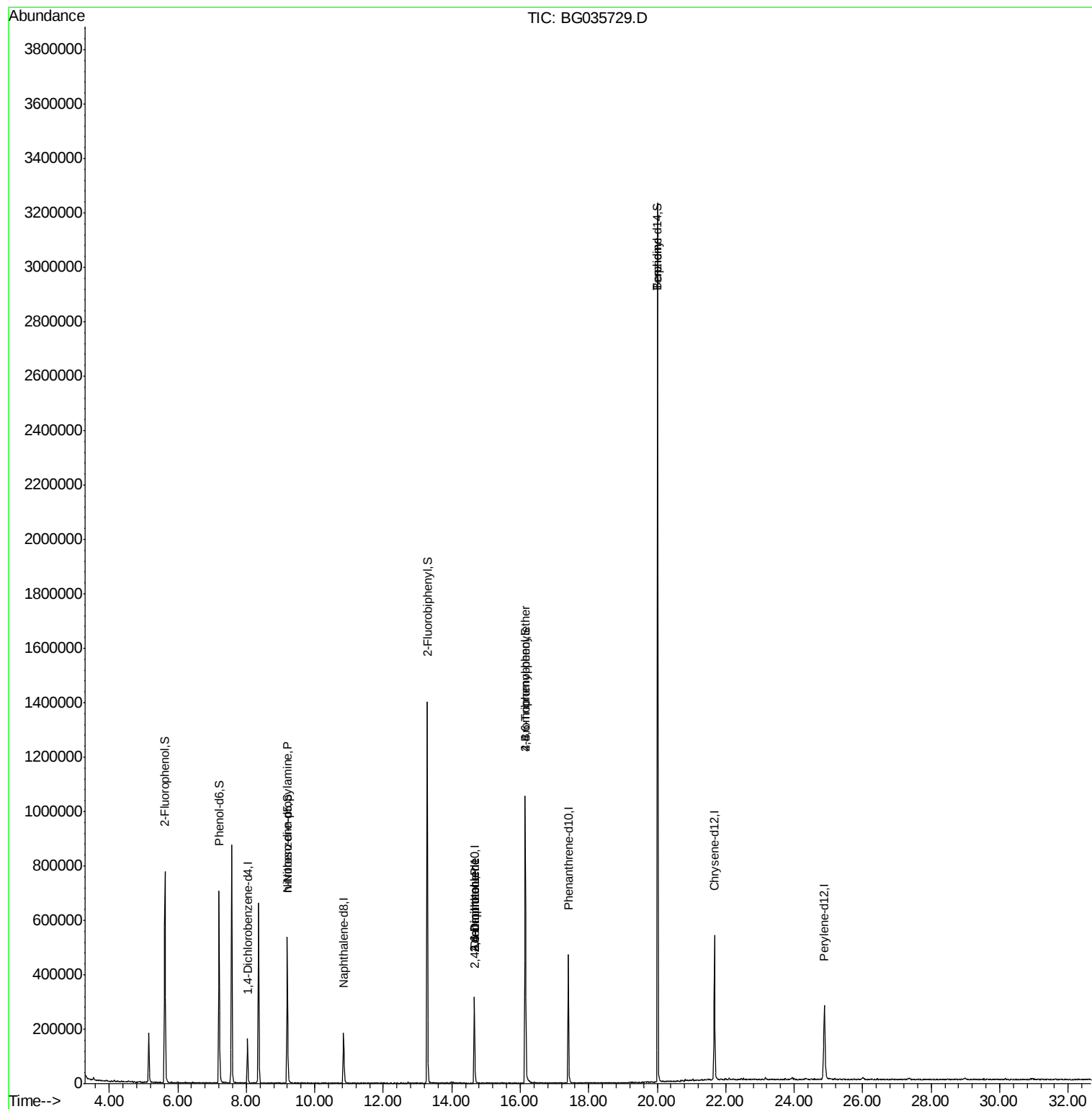
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.04  | 152  | 46354    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.84 | 136  | 164076   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.66 | 164  | 111731   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 17.40 | 188  | 311026   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.67 | 240  | 363723   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 24.88 | 264  | 331133   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.63  | 112  | 346540   | 124.12 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.21  | 99   | 430266   | 103.29 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.20  | 82   | 364331   | 92.76  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 16.15 | 330  | 193896   | 131.66 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 13.29 | 172  | 785881   | 94.23  | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.01 | 244  | 1515836  | 91.87  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.20  | 70   | 48994    | 13.967 | ng    | # 68     |
| 50) 2,6-Dinitrotoluene         | 14.66 | 165  | 15150    | 7.600  | ng    | # 18     |
| 53) 2,4-Dinitrophenol          | 14.65 | 184  | 76       | 6.650  | ng    | # 14     |
| 56) 2,4-Dinitrotoluene         | 14.66 | 165  | 15150    | 5.297  | ng    | # 16     |
| 66) 4-Bromophenyl-phenylether  | 16.15 | 248  | 16581    | 4.595  | ng    | # 1      |
| 76) Benzidine                  | 20.01 | 184  | 26829    | 2.806  | ng    | # 91     |

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

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Sample : J4016-06  
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Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Jul 19 02:04:00 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 18 17:45:13 2018  
Response via : Initial Calibration



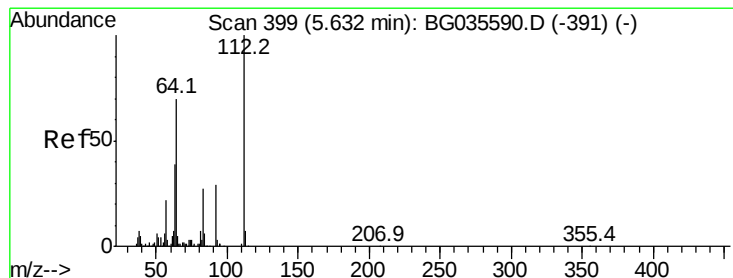
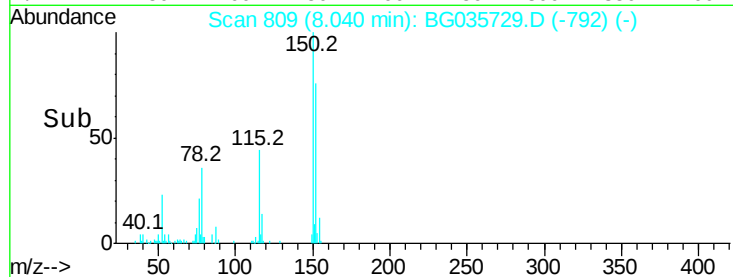
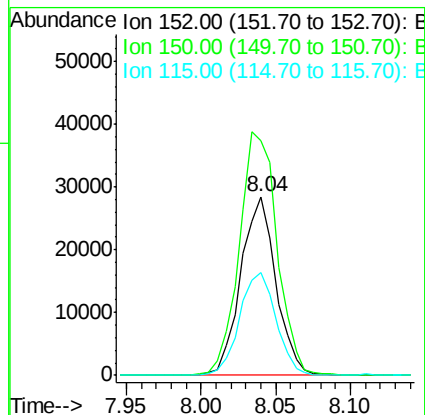
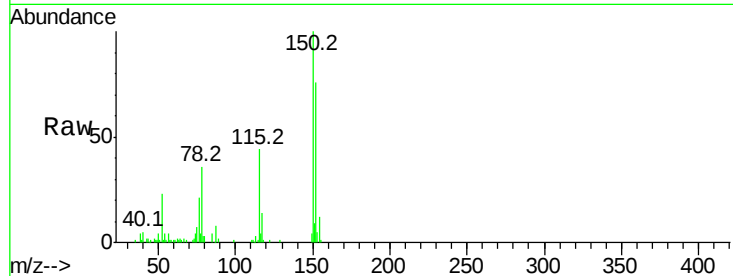


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.04 min Scan# 809  
Delta R.T. -0.00 min  
Lab File: BG035729.D  
Acq: 18 Jul 2018 22:48

Instrument :  
BNA\_G  
ClientSampleId :

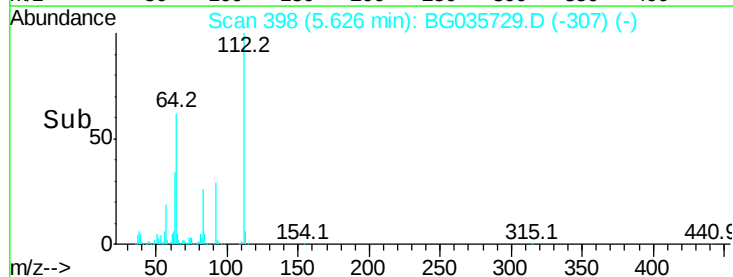
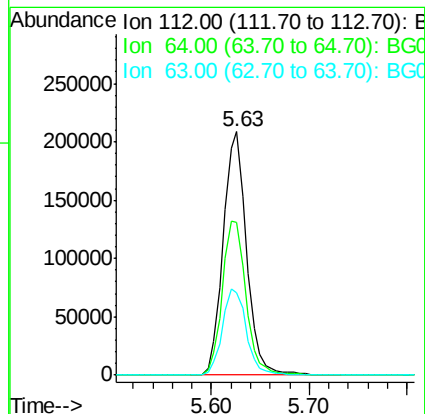
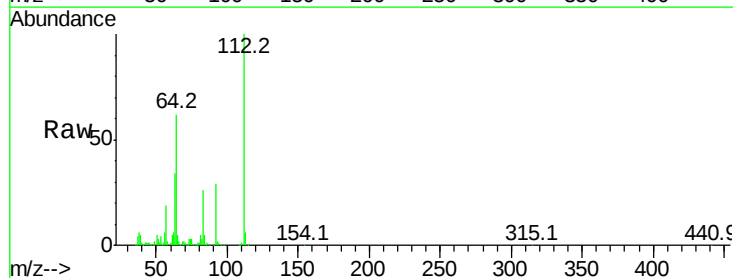
Tot Ion:152 Resp: 46354  
Ion Ratio Lower Upper  
152 100  
150 131.6 126.6 189.8  
115 57.3 53.0 79.4



#5

2-Fluorophenol  
Concen: 124.118 ng  
RT: 5.63 min Scan# 398  
Delta R.T. 0.01 min  
Lab File: BG035729.D  
Acq: 18 Jul 2018 22:48

Tgt Ion:112 Resp: 346540  
Ion Ratio Lower Upper  
112 100  
64 62.5 56.3 84.5  
63 34.1 30.1 45.1





#7

Phenol-d6

Concen: 103.289 ng

RT: 7.21 min Scan# 667

Delta R.T. -0.00 min

Lab File: BG035729.D

Acq: 18 Jul 2018 22:48

Instrument :

BNA\_G

ClientSampleId :

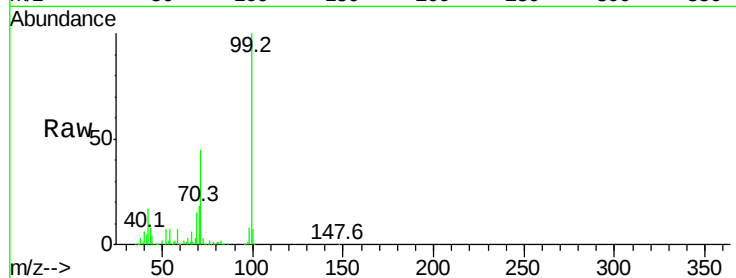
Tot Ion: 99 Resp: 430266

Ion Ratio Lower Upper

99 100

42 17.3 14.1 21.1

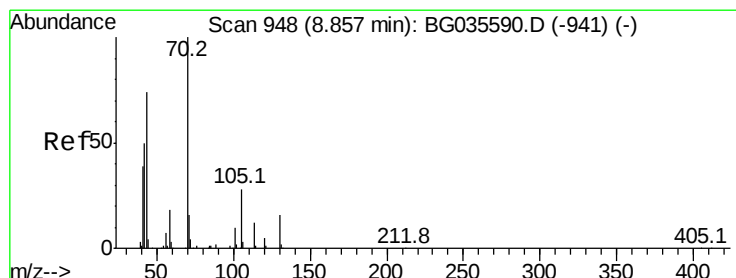
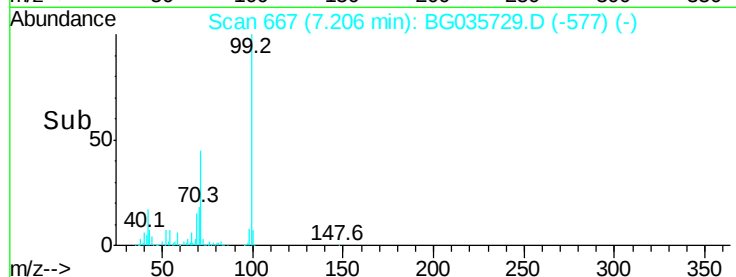
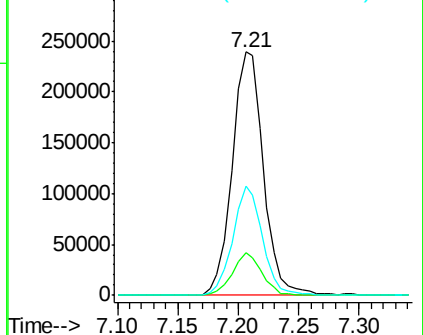
71 44.6 26.1 39.1#



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: 13.967 ng

RT: 9.20 min Scan# 1006

Delta R.T. 0.36 min

Lab File: BG035729.D

Acq: 18 Jul 2018 22:48

Tgt Ion: 70 Resp: 48994

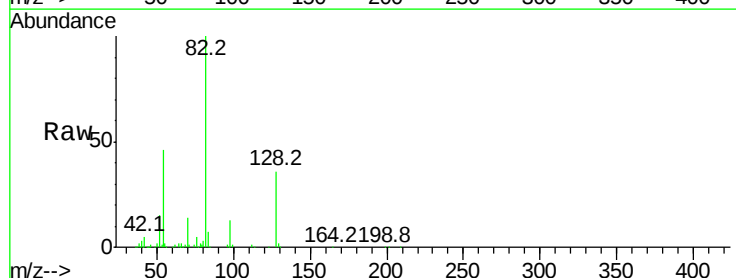
Ion Ratio Lower Upper

70 100

42 36.7 49.1 73.7#

101 0.0 8.5 12.7#

130 1.9 13.4 20.0#

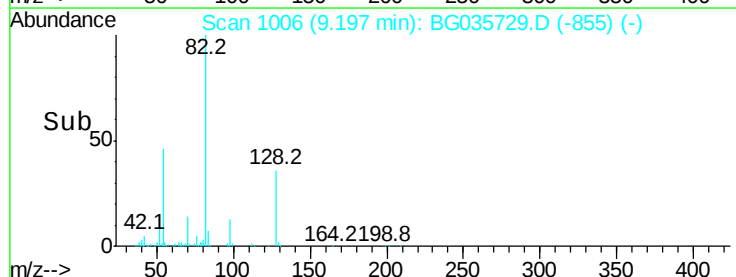
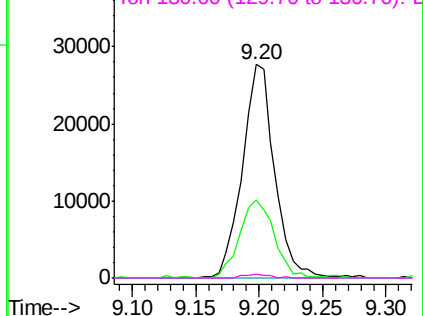


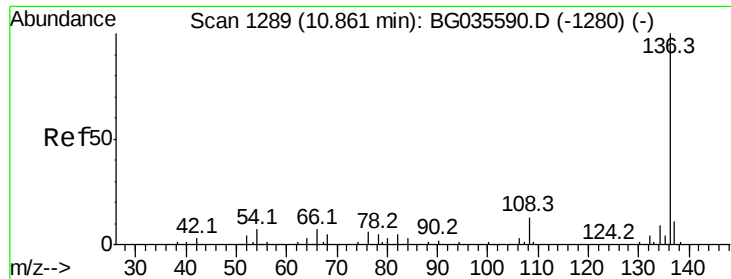
Abundance Ion 70.00 (69.70 to 70.70): BGC

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

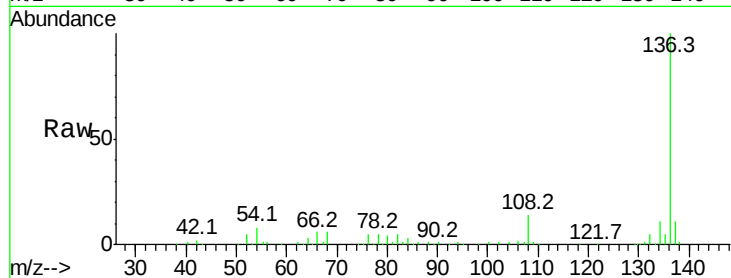




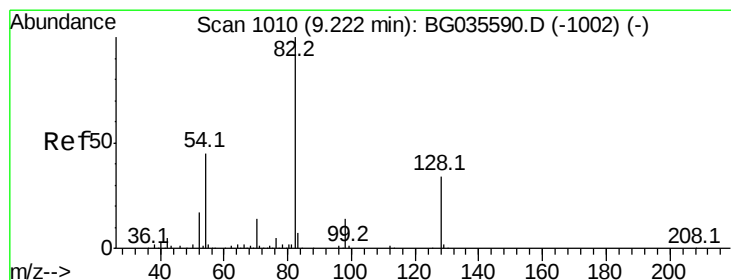
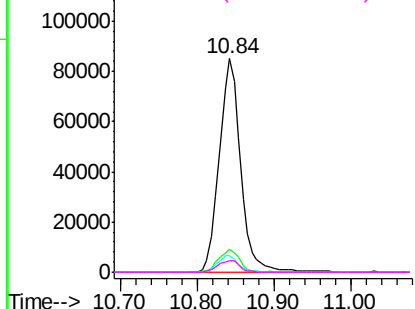
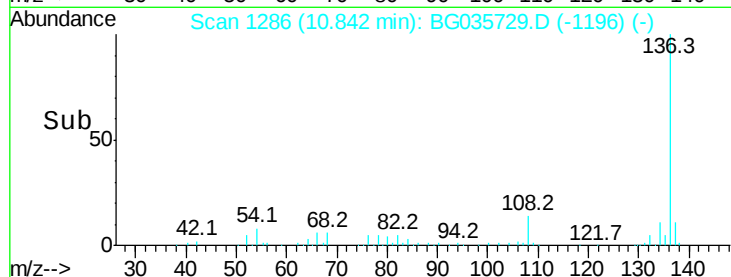
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.84 min Scan# 1286  
Delta R.T. -0.00 min  
Lab File: BG035729.D  
Acq: 18 Jul 2018 22:48

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 164076 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.6  | 9.2   | 13.8   |
| 54       | 7.7   | 10.3  | 15.5   |
| 68       | 5.7   | 4.5   | 6.7    |

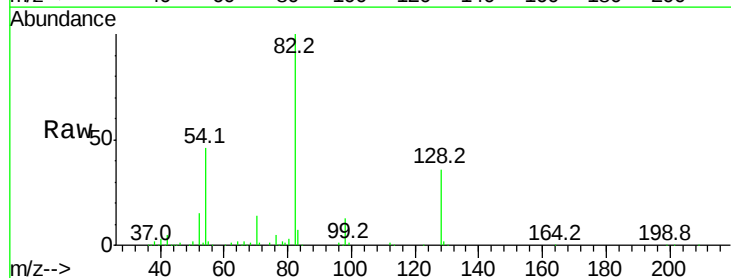


Abundance Ion 136.00 (135.70 to 136.70): B  
Ion 137.00 (136.70 to 137.70): B  
Ion 54.00 (53.70 to 54.70): B  
Ion 68.00 (67.70 to 68.70): B

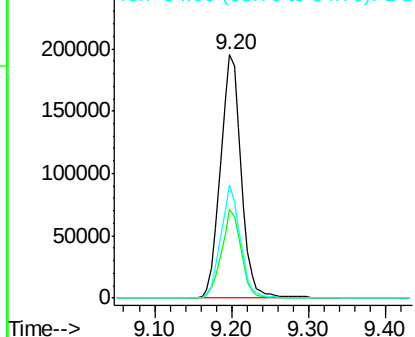
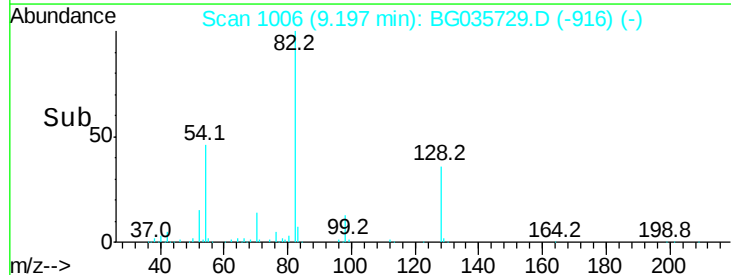


#23  
Nitrobenzene-d5  
Concen: 92.761 ng  
RT: 9.20 min Scan# 1006  
Delta R.T. -0.00 min  
Lab File: BG035729.D  
Acq: 18 Jul 2018 22:48

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 364331 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 36.3  | 29.7  | 44.5   |
| 54       | 46.2  | 43.1  | 64.7   |



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





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.66 min Scan# 1936

Delta R.T. -0.00 min

Lab File: BG035729.D

Acq: 18 Jul 2018 22:48

Instrument :

BNA\_G

ClientSampleId :

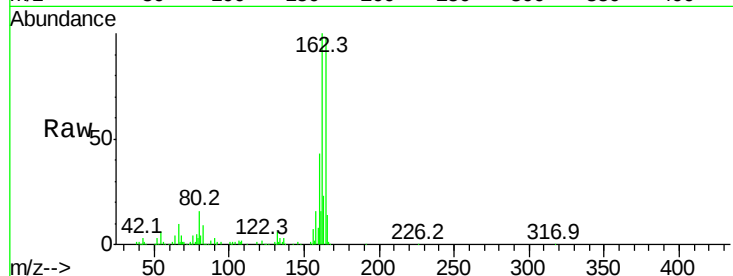
Tot Ion:164 Resp: 111731

Ion Ratio Lower Upper

164 100

162 101.6 78.8 118.2

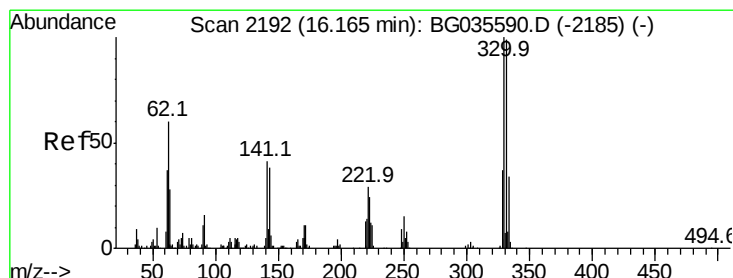
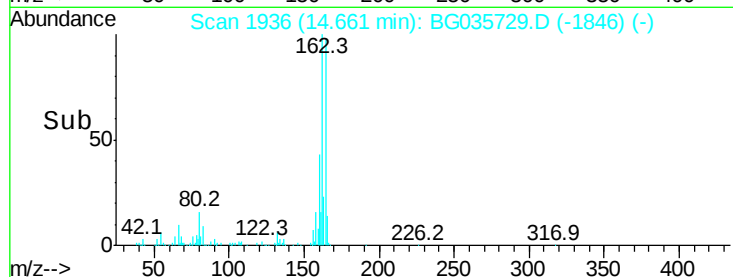
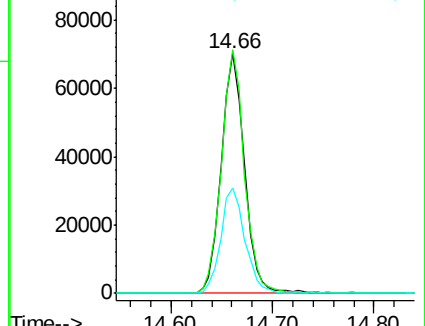
160 43.8 35.4 53.0



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: 131.661 ng

RT: 16.15 min Scan# 2189

Delta R.T. -0.01 min

Lab File: BG035729.D

Acq: 18 Jul 2018 22:48

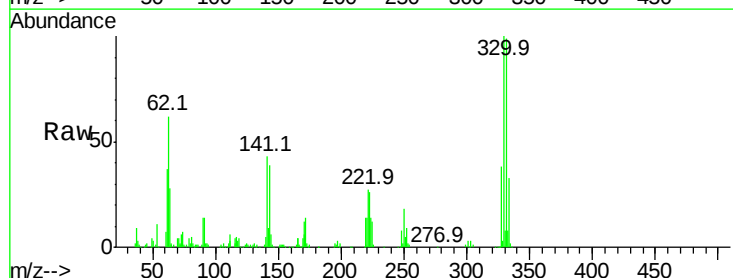
Tgt Ion:330 Resp: 193896

Ion Ratio Lower Upper

330 100

332 100.2 77.0 115.6

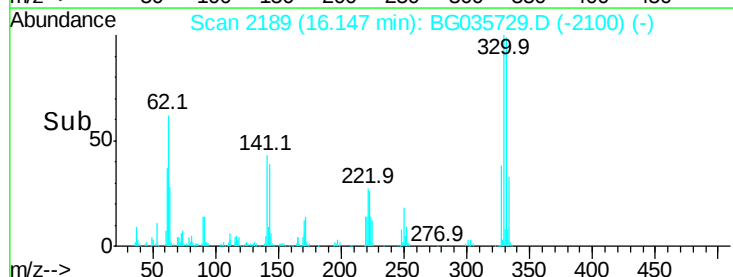
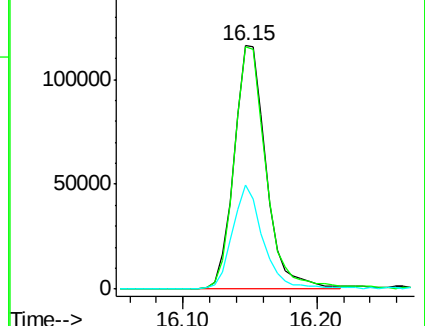
141 41.4 25.2 37.8#

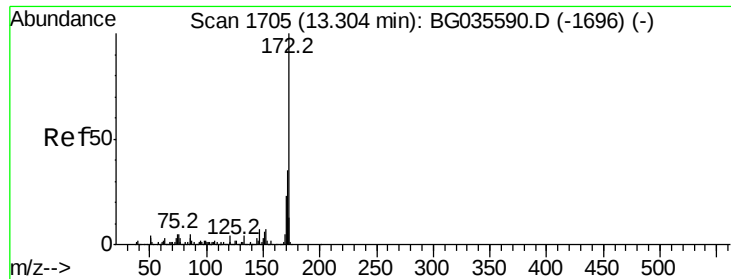


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

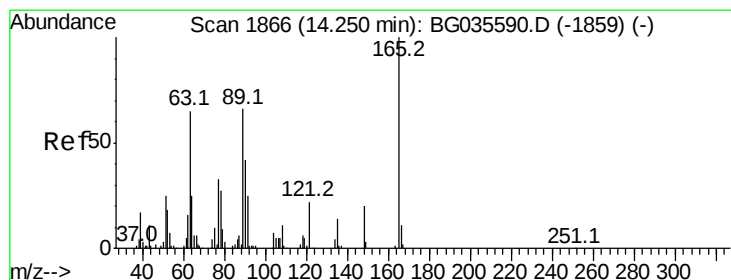
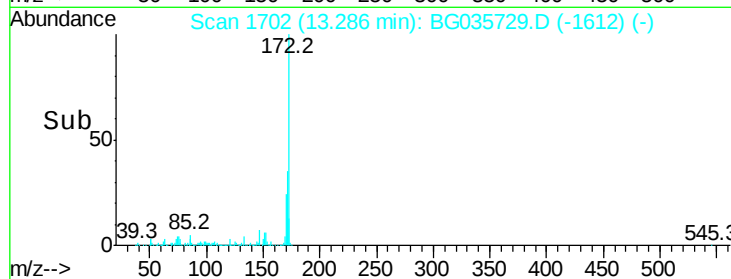
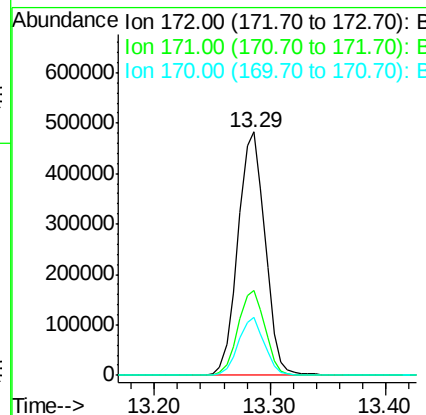
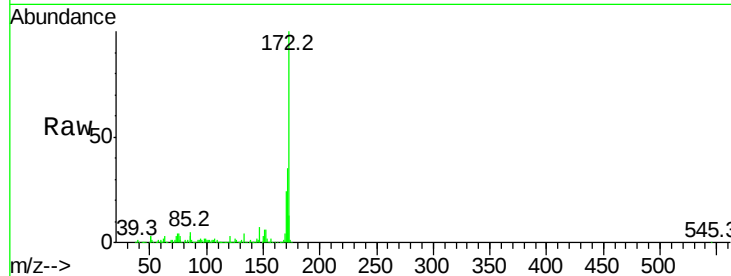




#44  
 2-Fluorobiphenyl  
 Concen: 94.233 ng  
 RT: 13.29 min Scan# 1702  
 Delta R.T. -0.00 min  
 Lab File: BG035729.D  
 Acq: 18 Jul 2018 22:48

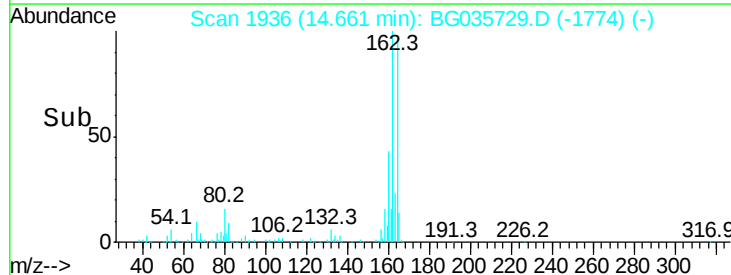
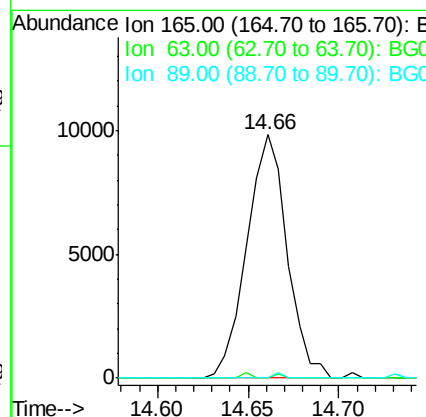
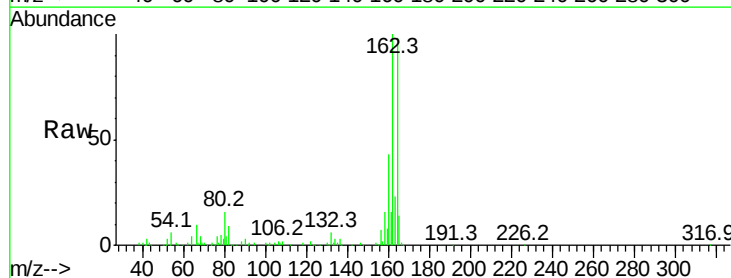
Instrument :  
 BNA\_G  
 ClientSampleId :

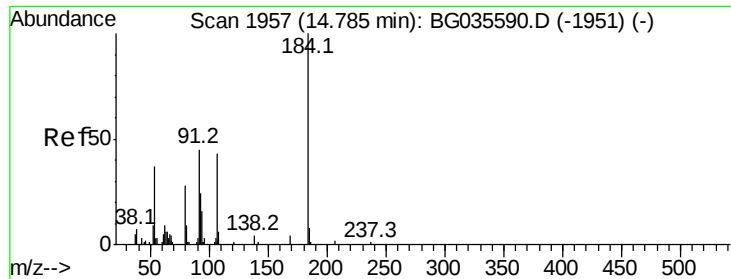
Tot Ion:172 Resp: 785881  
 Ion Ratio Lower Upper  
 172 100  
 171 34.6 30.0 45.0  
 170 23.7 19.5 29.3



#50  
 2,6-Dinitrotoluene  
 Concen: 7.600 ng  
 RT: 14.66 min Scan# 1936  
 Delta R.T. 0.42 min  
 Lab File: BG035729.D  
 Acq: 18 Jul 2018 22:48

Tgt Ion:165 Resp: 15150  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 52.7 79.1#  
 89 0.0 49.2 73.8#

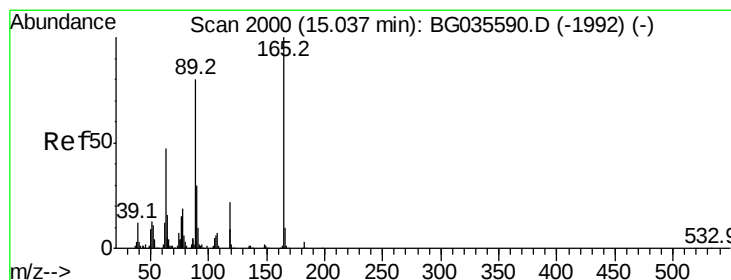
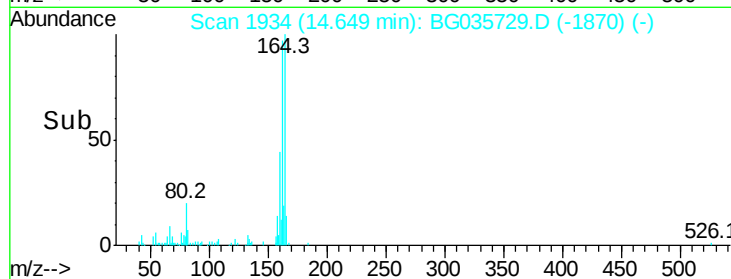
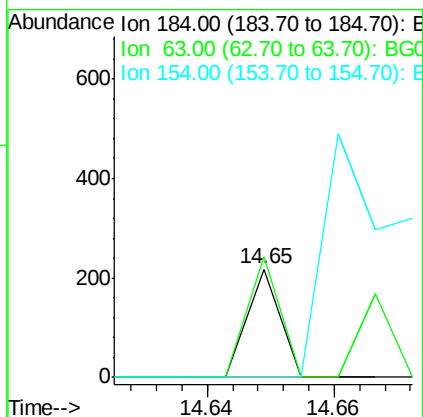
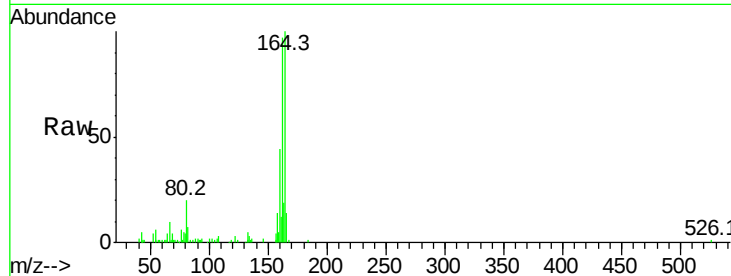




#53  
2,4-Dinitrophenol  
Concen: 6.650 ng  
RT: 14.65 min Scan# 1934  
Delta R.T. -0.15 min  
Lab File: BG035729.D  
Acq: 18 Jul 2018 22:48

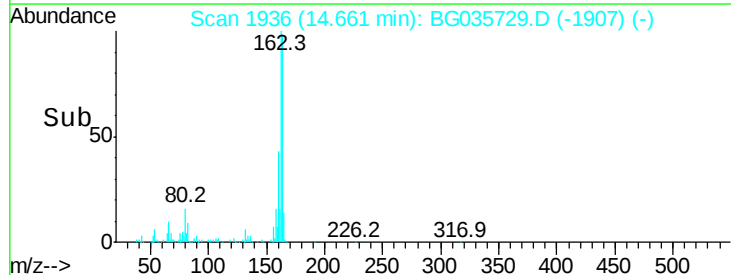
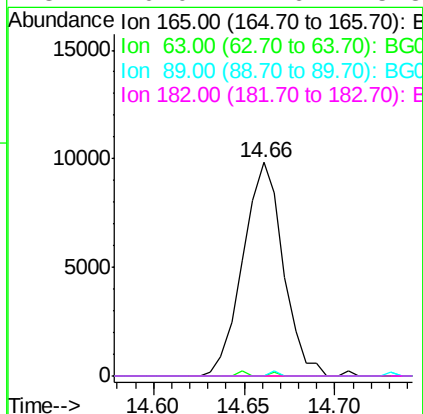
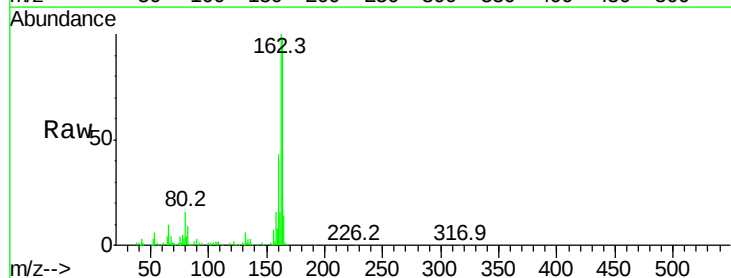
Instrument :  
BNA\_G  
ClientSampleId :

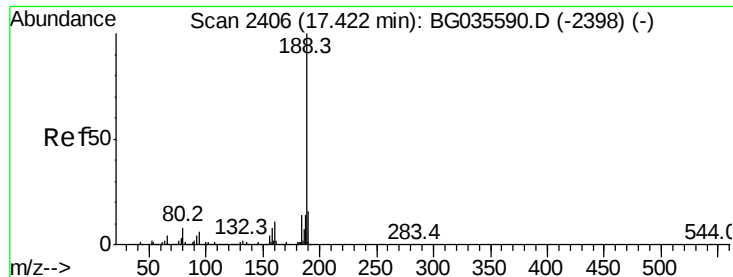
Tot Ion:184 Resp: 76  
Ion Ratio Lower Upper  
184 100  
63 112.4 59.8 89.8#  
154 0.0 101.8 152.8#



#56  
2,4-Dinitrotoluene  
Concen: 5.297 ng  
RT: 14.66 min Scan# 1936  
Delta R.T. -0.36 min  
Lab File: BG035729.D  
Acq: 18 Jul 2018 22:48

Tgt Ion:165 Resp: 15150  
Ion Ratio Lower Upper  
165 100  
63 0.0 42.0 63.0#  
89 0.0 66.9 100.3#  
182 0.0 2.6 3.8#





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.40 min Scan# 2403

Delta R.T. -0.00 min

Lab File: BG035729.D

Acq: 18 Jul 2018 22:48

Instrument :

BNA\_G

ClientSampleId :

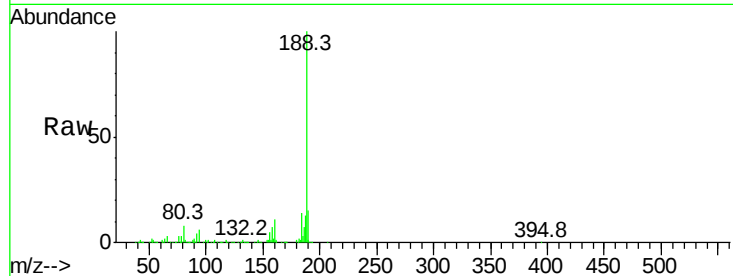
Tot Ion:188 Resp: 311026

Ion Ratio Lower Upper

188 100

94 6.4 6.9 10.3#

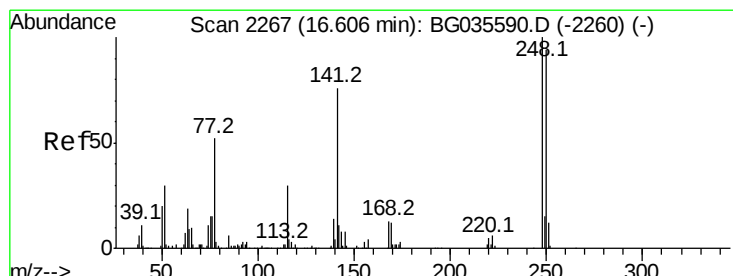
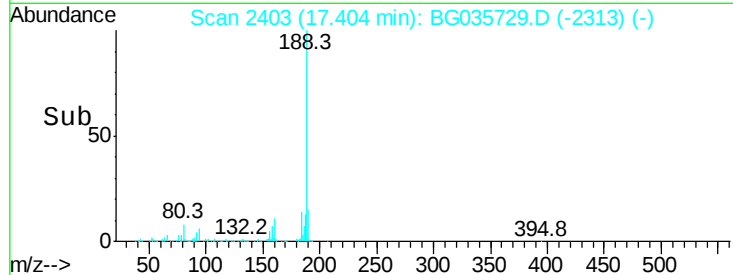
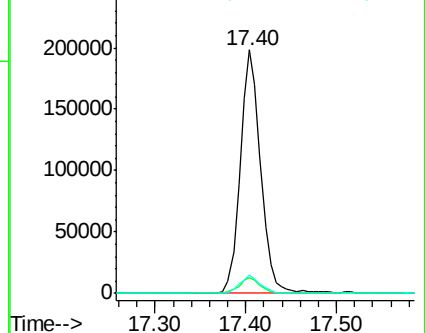
80 7.7 7.7 11.5



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: 4.595 ng

RT: 16.15 min Scan# 2190

Delta R.T. -0.44 min

Lab File: BG035729.D

Acq: 18 Jul 2018 22:48

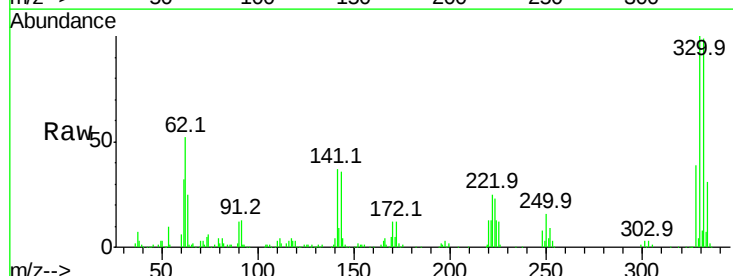
Tgt Ion:248 Resp: 16581

Ion Ratio Lower Upper

248 100

250 187.6 77.1 115.7#

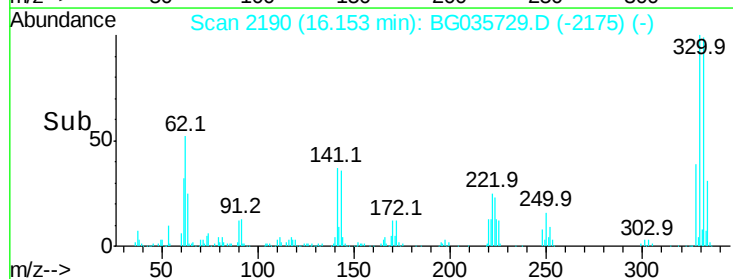
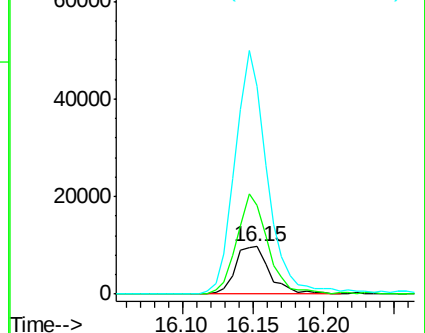
141 438.6 50.8 76.2#

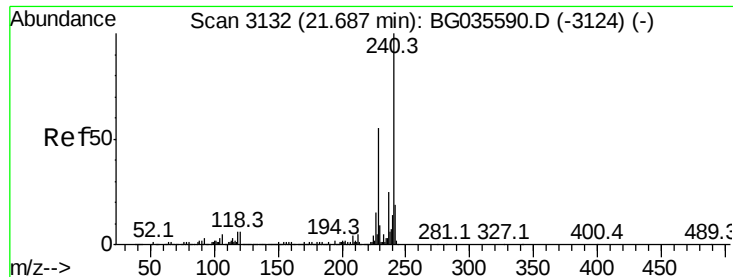


Abundance Ion 248.00 (247.70 to 248.70): E

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# 3129

Delta R.T. -0.01 min

Lab File: BG035729.D

Acq: 18 Jul 2018 22:48

Instrument :

BNA\_G

ClientSampleId :

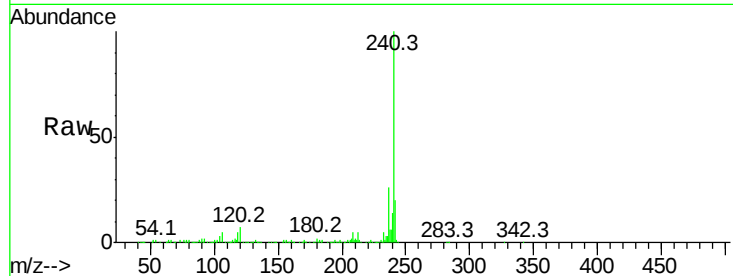
Tot Ion:240 Resp: 363723

Ion Ratio Lower Upper

240 100

120 6.5 6.8 10.2#

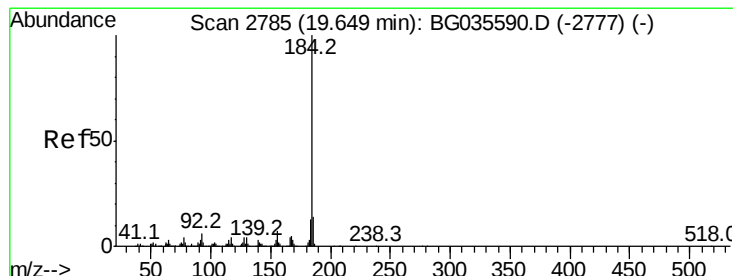
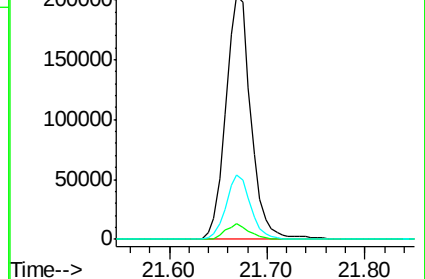
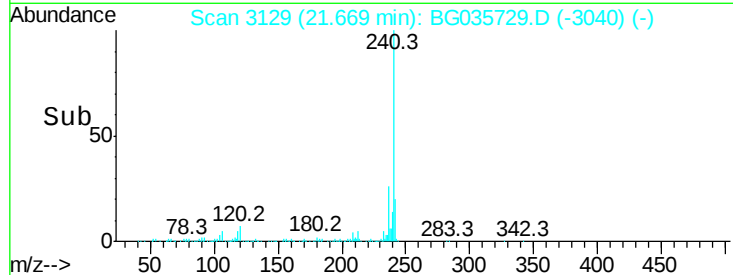
236 26.5 20.9 31.3



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: 2.806 ng

RT: 20.01 min Scan# 2847

Delta R.T. 0.38 min

Lab File: BG035729.D

Acq: 18 Jul 2018 22:48

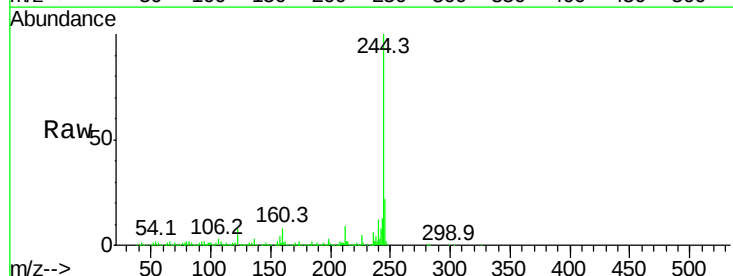
Tgt Ion:184 Resp: 26829

Ion Ratio Lower Upper

184 100

185 16.2 11.1 16.7

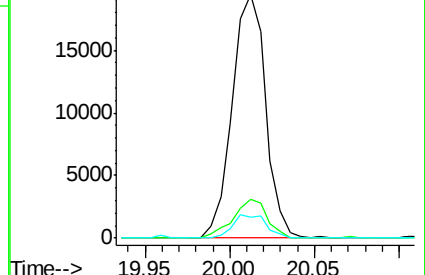
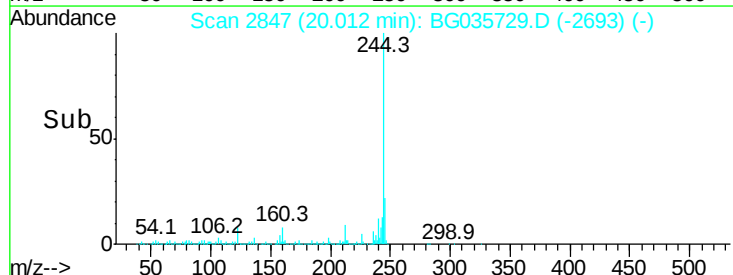
183 8.4 10.6 16.0#

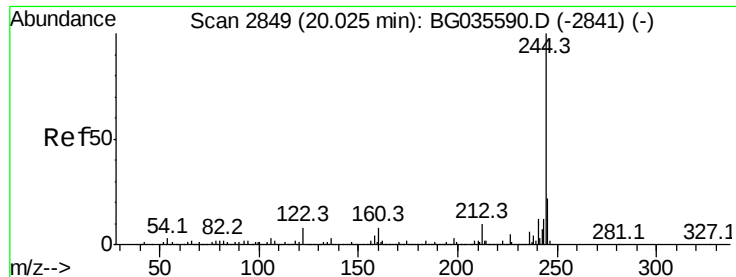


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 91.865 ng

RT: 20.01 min Scan# 2847

Delta R.T. -0.00 min

Lab File: BG035729.D

Acq: 18 Jul 2018 22:48

Instrument :

BNA\_G

ClientSampled :

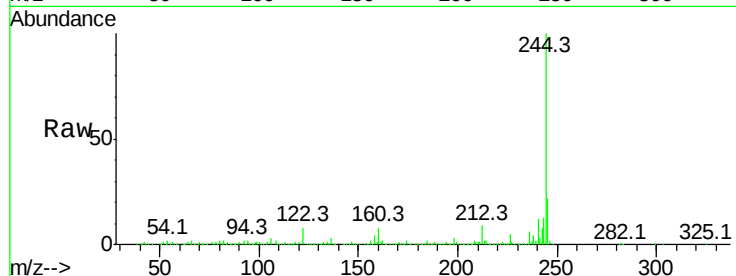
Tot Ion:244 Resp: 1515836

Ion Ratio Lower Upper

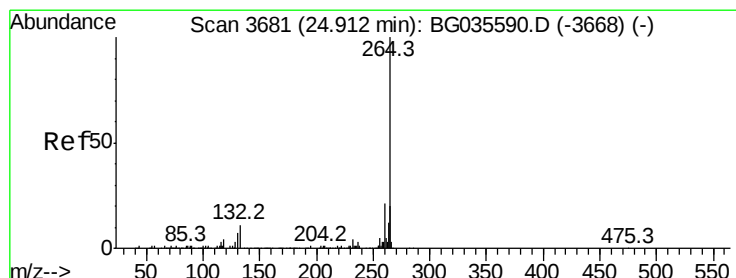
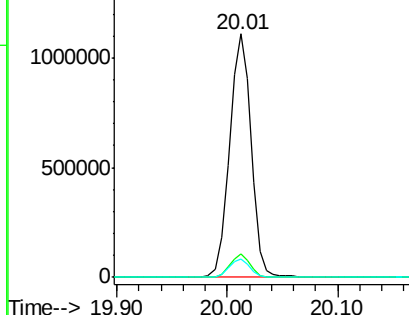
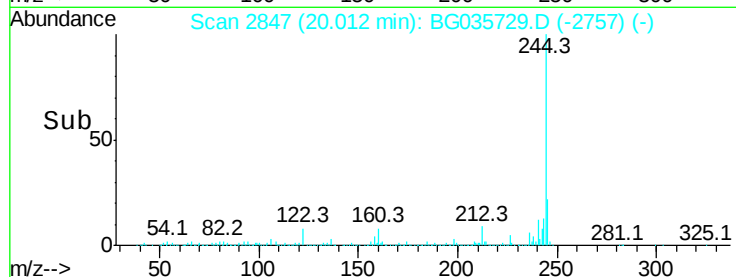
244 100

212 9.5 5.8 8.8#

122 7.7 7.0 10.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.88 min Scan# 3675

Delta R.T. -0.01 min

Lab File: BG035729.D

Acq: 18 Jul 2018 22:48

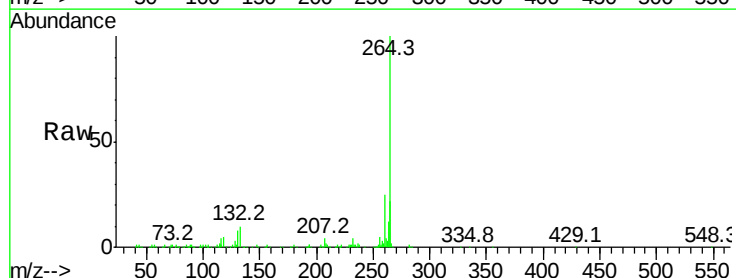
Tgt Ion:264 Resp: 331133

Ion Ratio Lower Upper

264 100

260 25.5 17.4 26.0

265 21.9 17.7 26.5



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

