

Data Path : Z:\HPCHEM1\BNA G\DATA\BG070117\  
 Data File : BG027796.D  
 Acq On : 1 Jul 2017 23:21  
 Operator : SJ/JU  
 Sample : I4000-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jul 03 06:57:23 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG062817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 28 19:26:37 2017  
 Response via : Initial Calibration

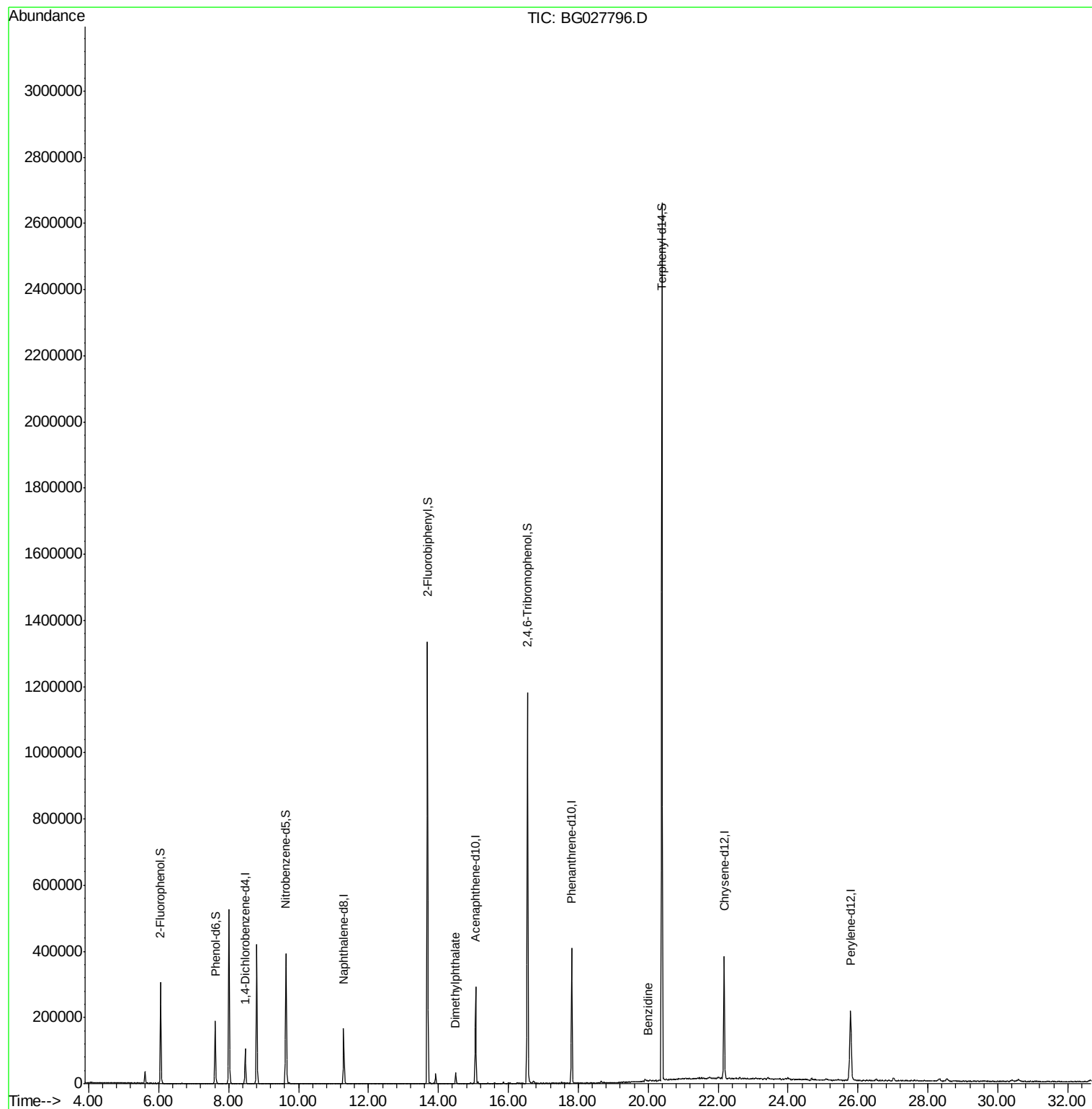
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.48  | 152  | 30028    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 11.29 | 136  | 150760   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 15.06 | 164  | 100816   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.81 | 188  | 246781   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 22.17 | 240  | 249054   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 25.79 | 264  | 250298   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 6.06  | 112  | 130959   | 67.16  | ng    | 0.00     |
| 7) Phenol-d6                | 7.61  | 99   | 114952   | 38.59  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.64  | 82   | 247296   | 91.43  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.55 | 330  | 243929   | 176.40 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.69 | 172  | 686655   | 97.27  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.39 | 244  | 1189054  | 111.93 | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 49) Dimethylphthalate       | 14.49 | 163  | 22205    | 2.58   | ng    | 97       |
| 76) Benzidine               | 20.01 | 184  | 57       | 3.23   | ng    | # 64     |

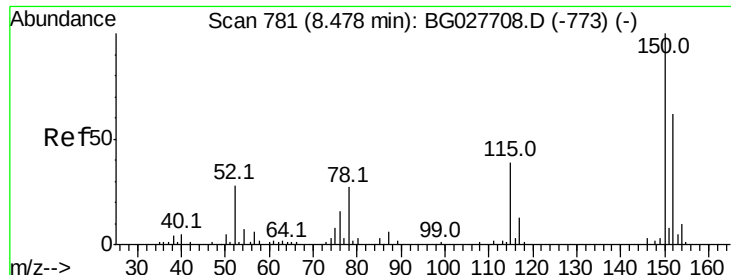
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
ClientSampleId :

Quant Time: Jul 03 06:57:23 2017  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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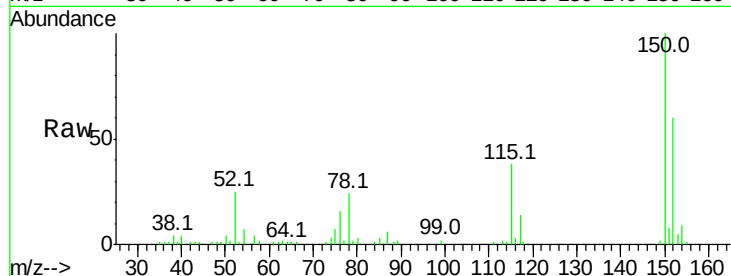


#1

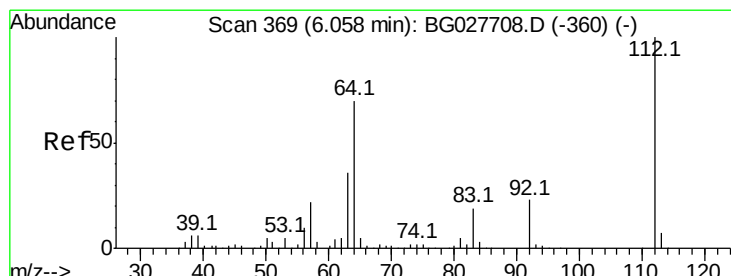
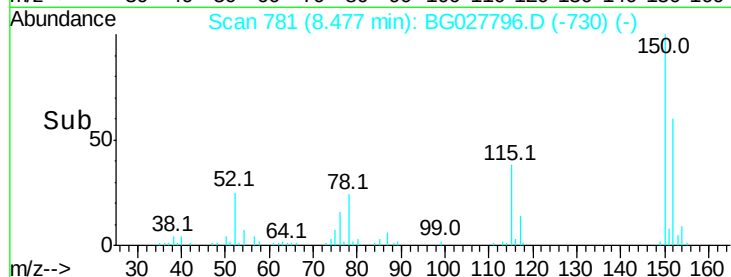
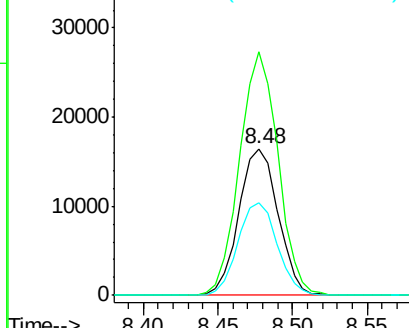
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.48 min Scan# 781  
Delta R.T. -0.00 min  
Lab File: BG027796.D  
Acq: 1 Jul 2017 23:21

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 30028  
Ion Ratio Lower Upper  
152 100  
150 166.3 114.0 171.0  
115 63.0 48.1 72.1



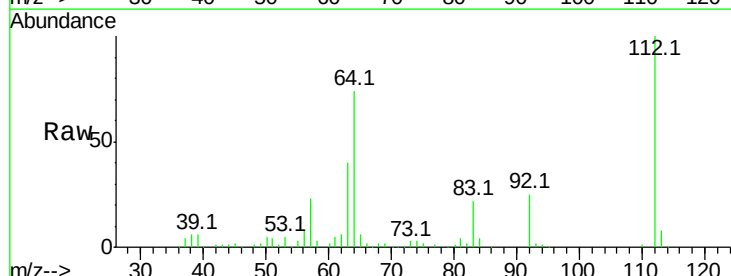
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



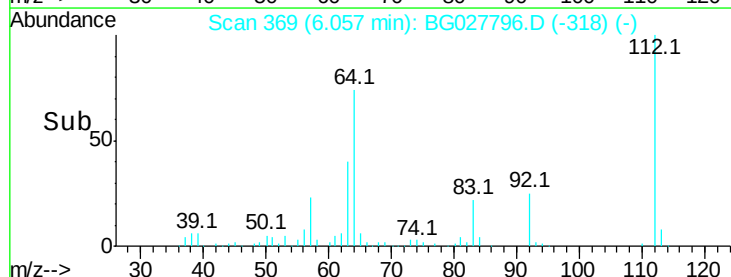
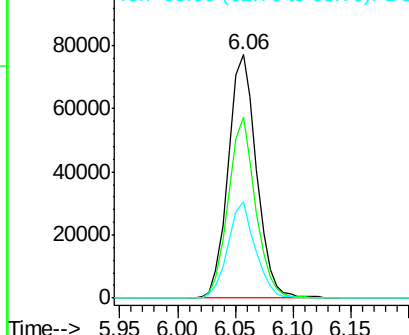
#5

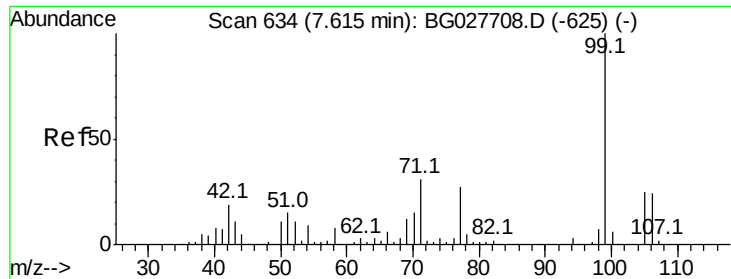
2-Fluorophenol  
Concen: 67.16 ng  
RT: 6.06 min Scan# 369  
Delta R.T. -0.00 min  
Lab File: BG027796.D  
Acq: 1 Jul 2017 23:21

Tgt Ion:112 Resp: 130959  
Ion Ratio Lower Upper  
112 100  
64 74.0 61.8 92.6  
63 39.8 37.2 55.8



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: 38.59 ng

RT: 7.61 min Scan# 634

Delta R.T. -0.00 min

Lab File: BG027796.D

Acq: 1 Jul 2017 23:21

Instrument :

BNA\_G

ClientSampleId :

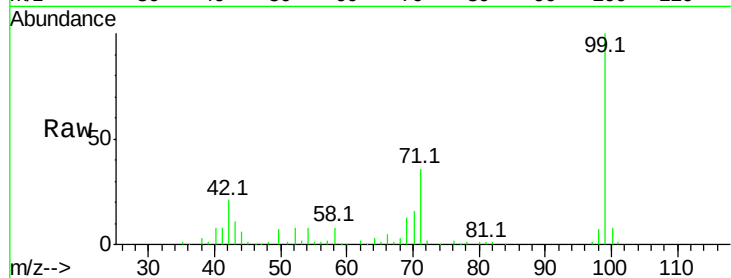
Tot Ion: 99 Resp: 114952

Ion Ratio Lower Upper

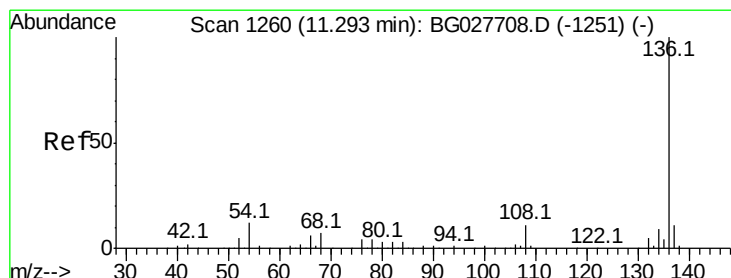
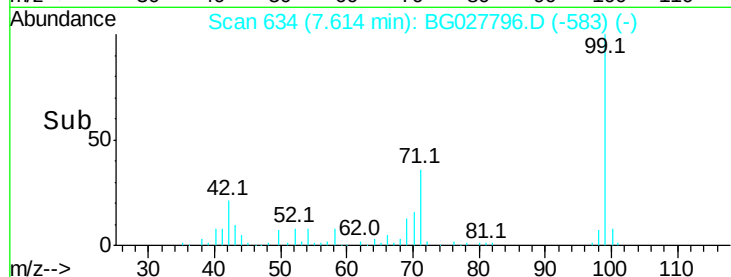
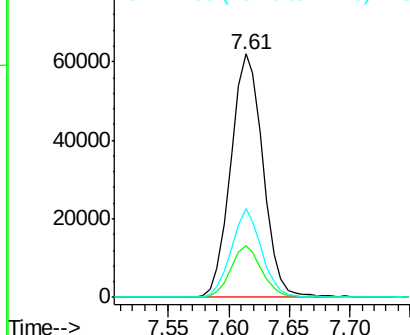
99 100

42 21.2 20.5 30.7

71 36.4 37.6 56.4#



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.29 min Scan# 1260

Delta R.T. -0.00 min

Lab File: BG027796.D

Acq: 1 Jul 2017 23:21

Tgt Ion: 136 Resp: 150760

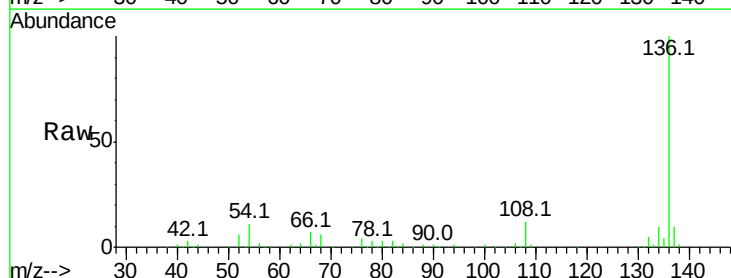
Ion Ratio Lower Upper

136 100

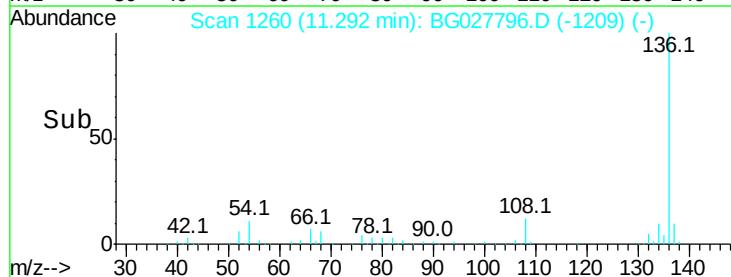
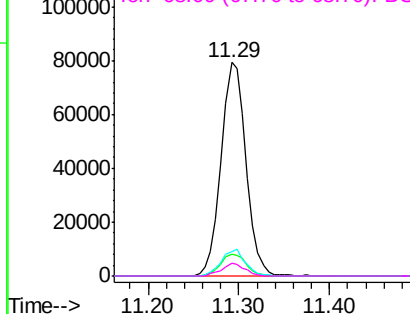
137 10.2 8.9 13.3

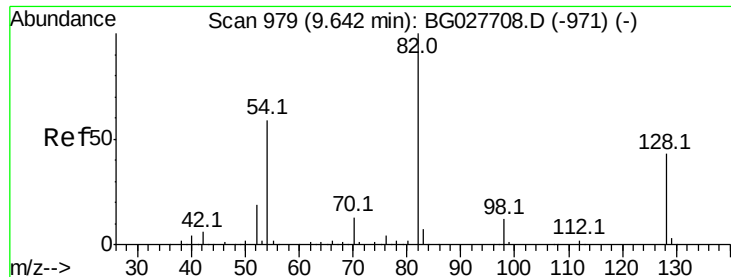
54 11.4 9.3 13.9

68 5.8 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

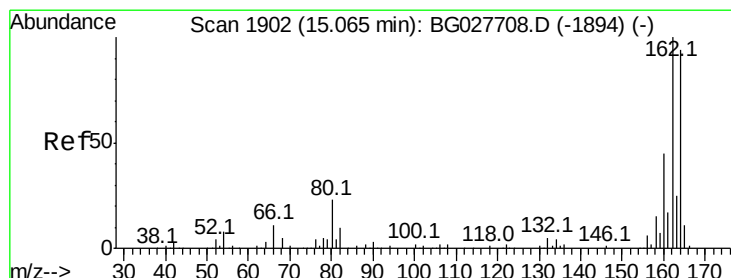
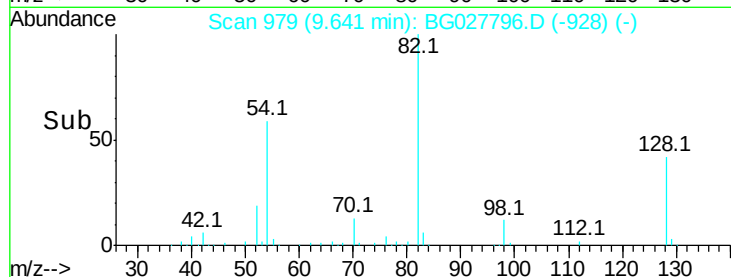
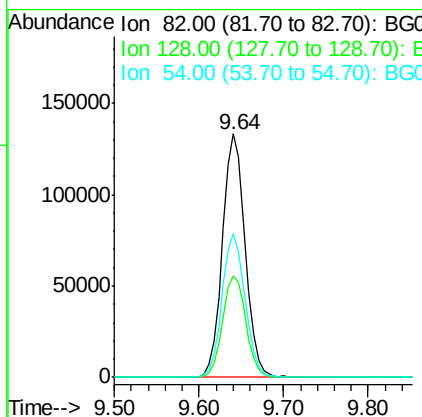
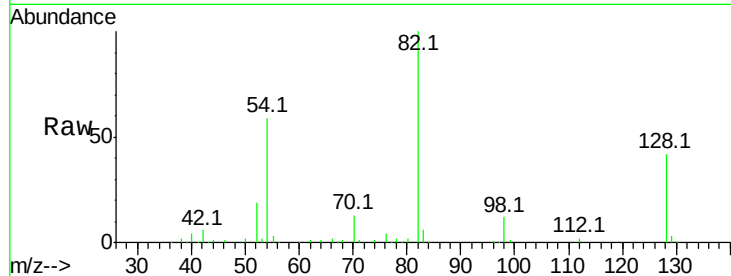




#23  
 Nitrobenzene-d5  
 Concen: 91.43 ng  
 RT: 9.64 min Scan# 979  
 Delta R.T. -0.00 min  
 Lab File: BG027796.D  
 Acq: 1 Jul 2017 23:21

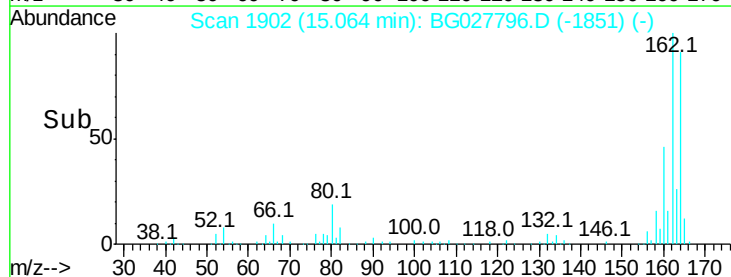
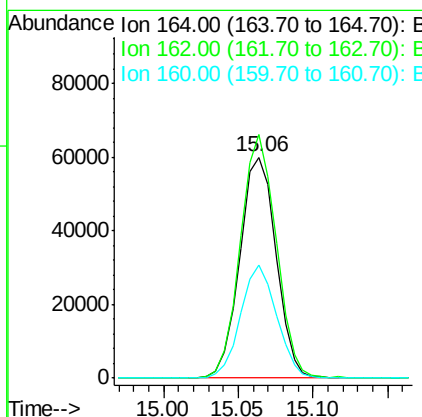
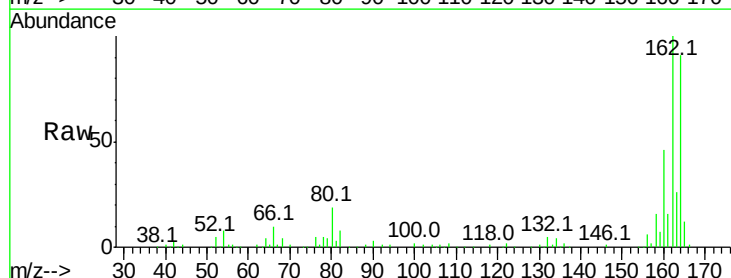
Instrument :  
 BNA\_G  
 ClientSampled :

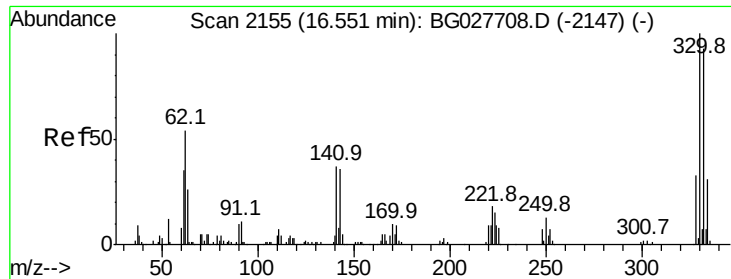
| Tot Ion | 82    | Resp  | 247296 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 82      | 100   |       |        |
| 128     | 41.8  | 26.4  | 39.6#  |
| 54      | 59.1  | 49.4  | 74.2   |



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 15.06 min Scan# 1902  
 Delta R.T. -0.00 min  
 Lab File: BG027796.D  
 Acq: 1 Jul 2017 23:21

| Tgt Ion | 164   | Resp  | 100816 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 164     | 100   |       |        |
| 162     | 110.1 | 85.1  | 127.7  |
| 160     | 50.9  | 34.7  | 52.1   |

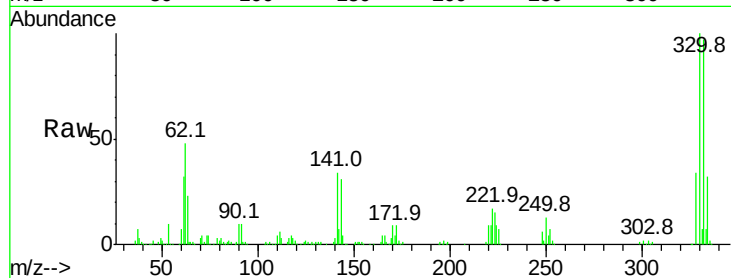




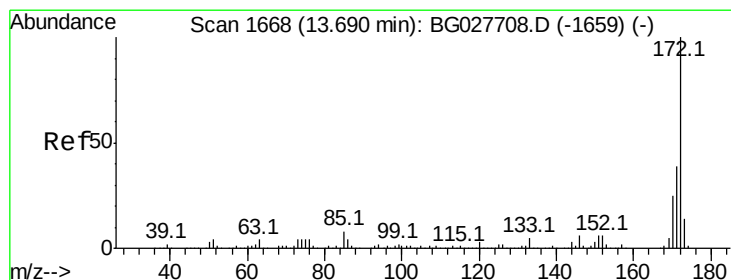
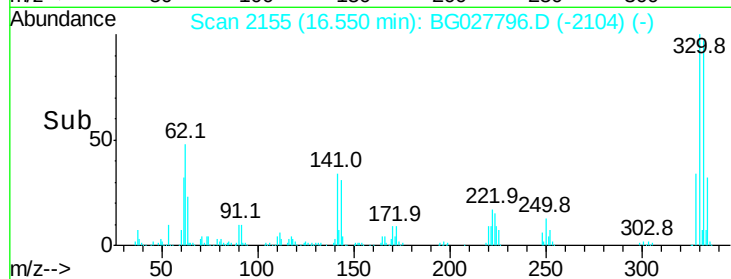
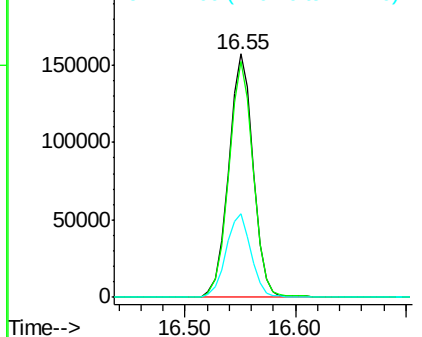
#41  
 2,4,6-Tribromophenol  
 Concen: 176.40 ng  
 RT: 16.55 min Scan# 2155  
 Delta R.T. -0.00 min  
 Lab File: BG027796.D  
 Acq: 1 Jul 2017 23:21

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.5  | 77.3  | 115.9 |
| 141     | 35.2  | 32.1  | 48.1  |

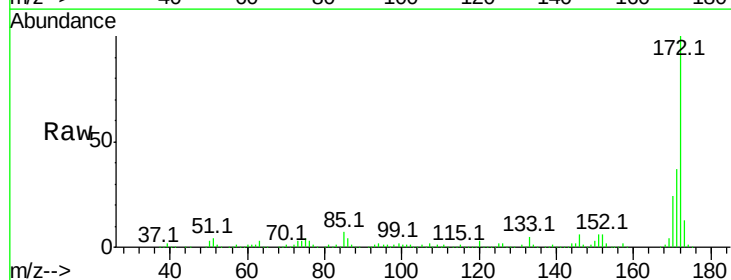


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

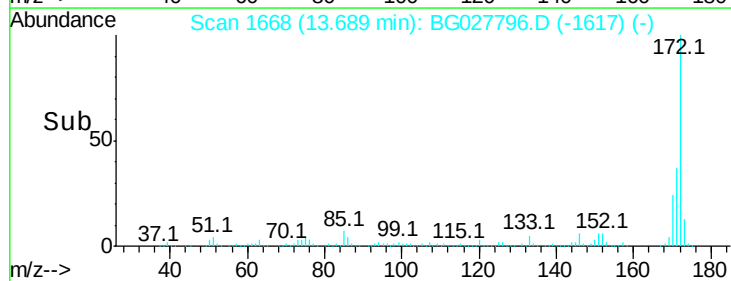
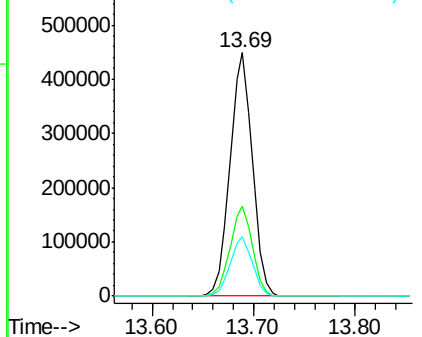


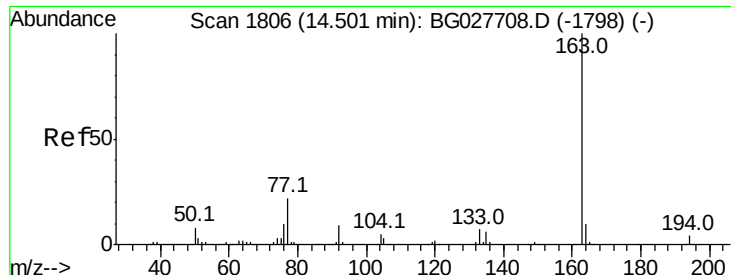
#44  
 2-Fluorobiphenyl  
 Concen: 97.27 ng  
 RT: 13.69 min Scan# 1668  
 Delta R.T. -0.00 min  
 Lab File: BG027796.D  
 Acq: 1 Jul 2017 23:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.9  | 32.2  | 48.2  |
| 170     | 24.3  | 21.8  | 32.6  |



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





#49

Dimethylphthalate

Concen: 2.58 ng

RT: 14.49 min Scan# 1805

Delta R.T. -0.01 min

Lab File: BG027796.D

Acq: 1 Jul 2017 23:21

Instrument :

BNA\_G

ClientSampleId :

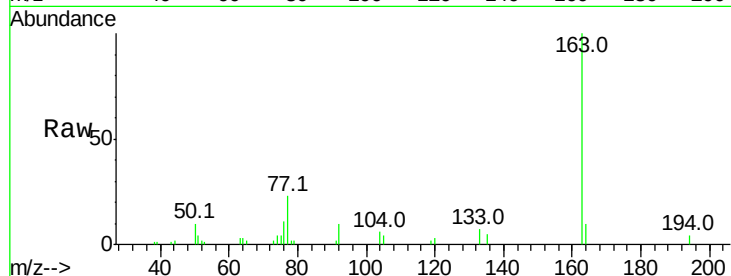
Tot Ion:163 Resp: 22205

Ion Ratio Lower Upper

163 100

194 4.4 3.8 5.6

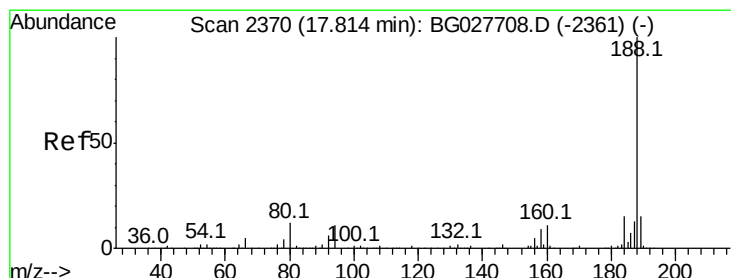
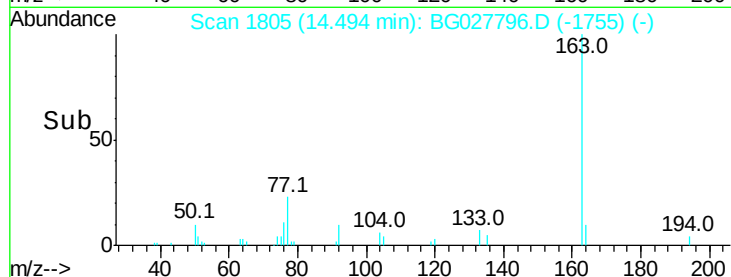
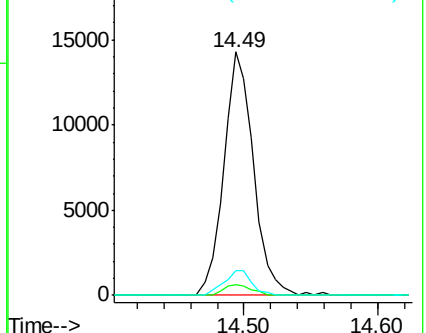
164 10.1 9.3 13.9



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.81 min Scan# 2370

Delta R.T. -0.00 min

Lab File: BG027796.D

Acq: 1 Jul 2017 23:21

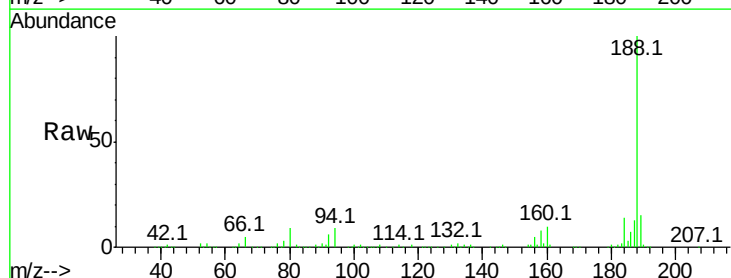
Tgt Ion:188 Resp: 246781

Ion Ratio Lower Upper

188 100

94 8.7 5.8 8.8

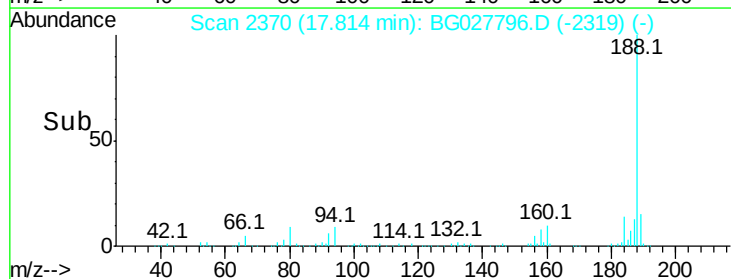
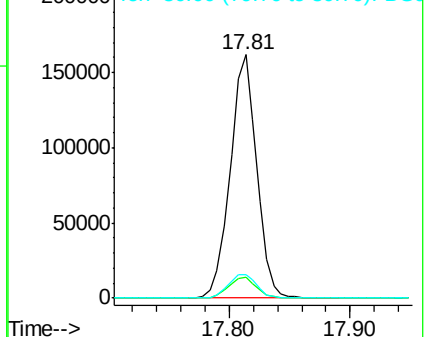
80 9.5 7.5 11.3

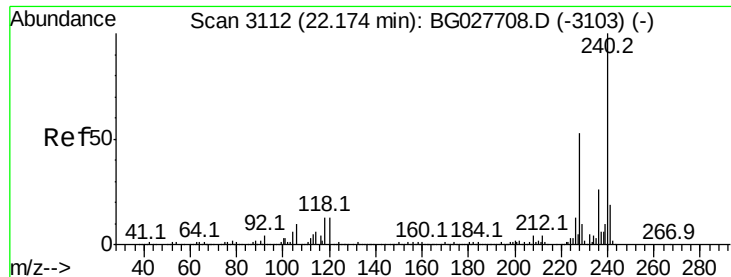


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC





#75

Chrysene-d12

Concen: 20.00 ng

RT: 22.17 min Scan# 3112

Delta R.T. -0.00 min

Lab File: BG027796.D

Acq: 1 Jul 2017 23:21

Instrument :

BNA\_G

ClientSampleId :

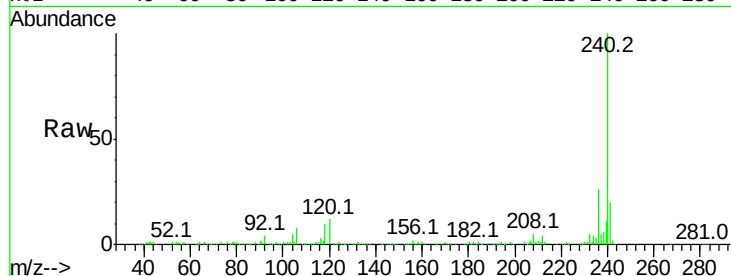
Tot Ion:240 Resp: 249054

Ion Ratio Lower Upper

240 100

120 11.7 5.7 8.5#

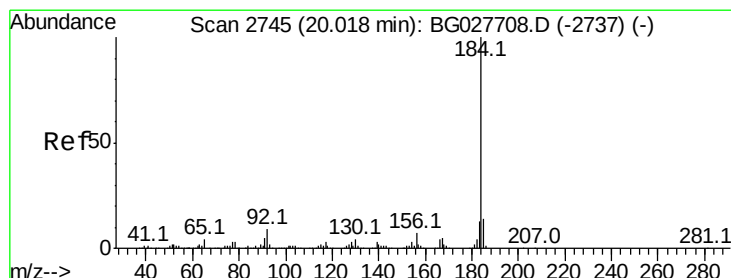
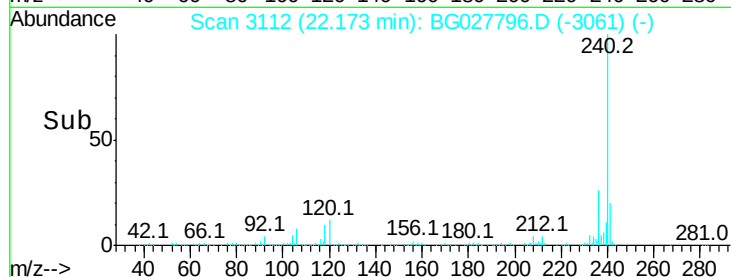
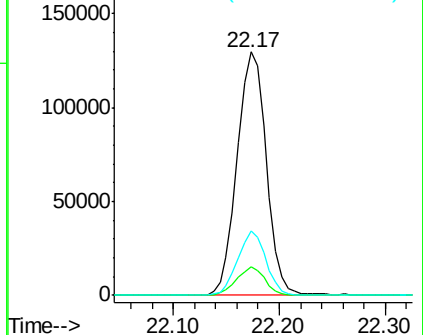
236 26.4 22.2 33.4



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



#76

Benzidine

Concen: 3.23 ng

RT: 20.01 min Scan# 2744

Delta R.T. -0.01 min

Lab File: BG027796.D

Acq: 1 Jul 2017 23:21

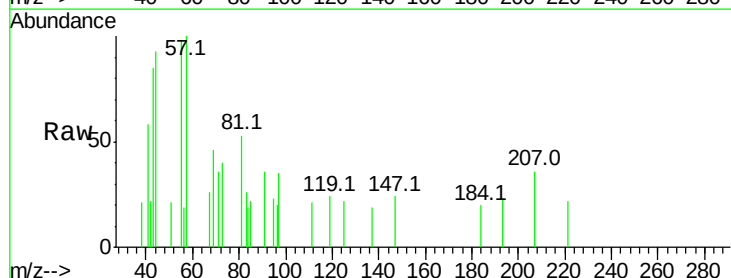
Tgt Ion:184 Resp: 57

Ion Ratio Lower Upper

184 100

185 0.0 13.0 19.6#

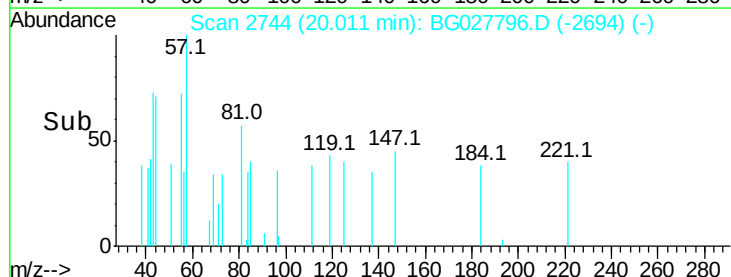
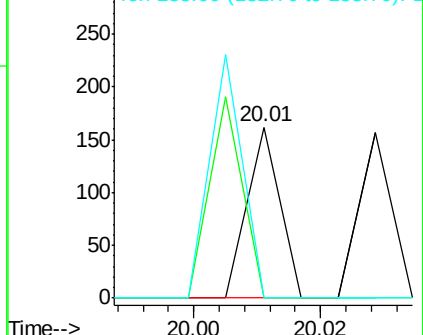
183 0.0 11.0 16.6#



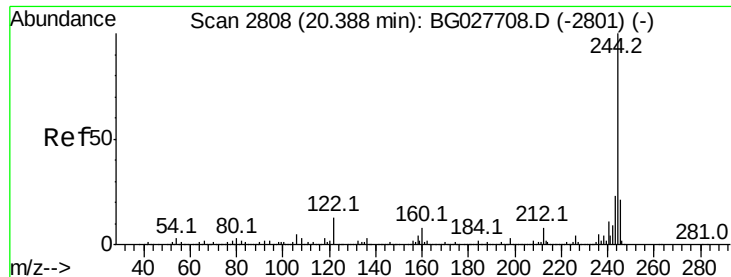
Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E







#78

Terphenyl-d14

Concen: 111.93 ng

RT: 20.39 min Scan# 2809

Delta R.T. 0.00 min

Lab File: BG027796.D

Acq: 1 Jul 2017 23:21

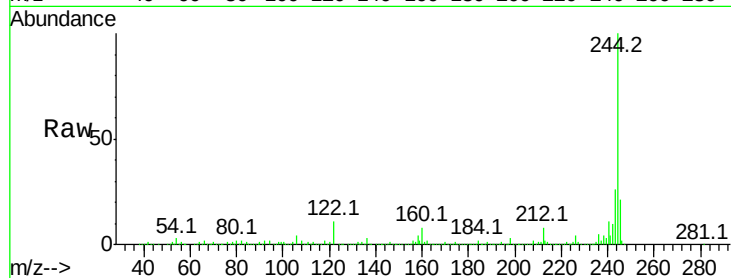
Instrument :

BNA\_G

ClientSampled :

Tot Ion:244 Resp: 1189054

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.6   | 10.0  | 15.0# |
| 122 | 10.7  | 8.6   | 12.8  |

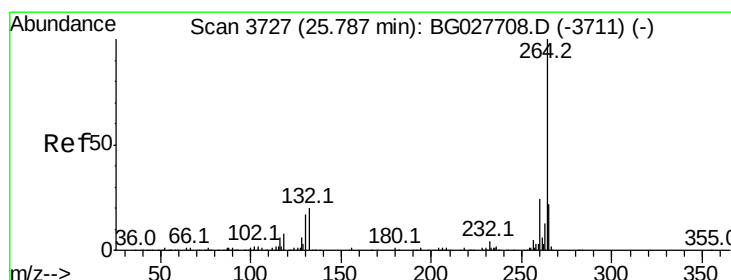
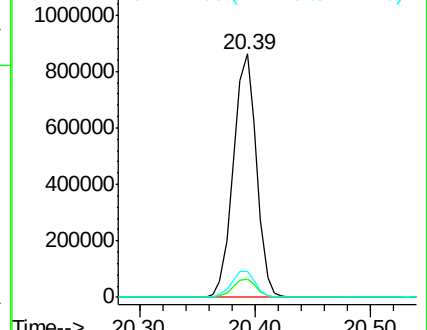
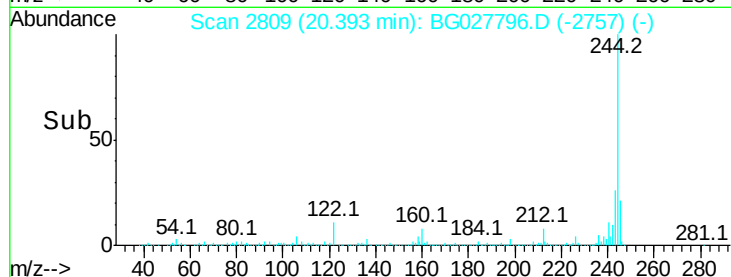


Abundance

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: 20.00 ng

RT: 25.79 min Scan# 3727

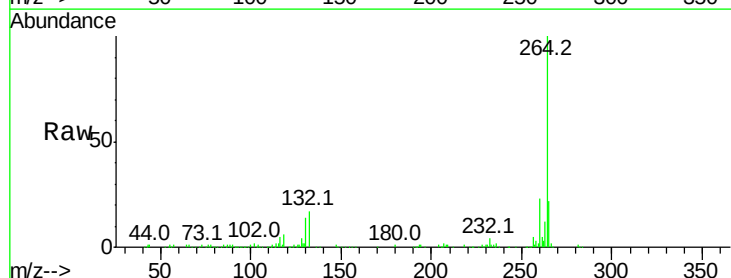
Delta R.T. -0.00 min

Lab File: BG027796.D

Acq: 1 Jul 2017 23:21

Tgt Ion:264 Resp: 250298

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.1  | 21.8  | 32.8  |
| 265 | 22.0  | 18.2  | 27.4  |



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

