

Data Path : Z:\HPCHEM1\BNA G\DATA\BG011918\  
 Data File : BG032173.D  
 Acq On : 20 Jan 2018 6:22  
 Operator : SJ/JU  
 Sample : J1203-02  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-285

Quant Time: Jan 22 00:06:34 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG011218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 18 10:13:16 2018  
 Response via : Initial Calibration

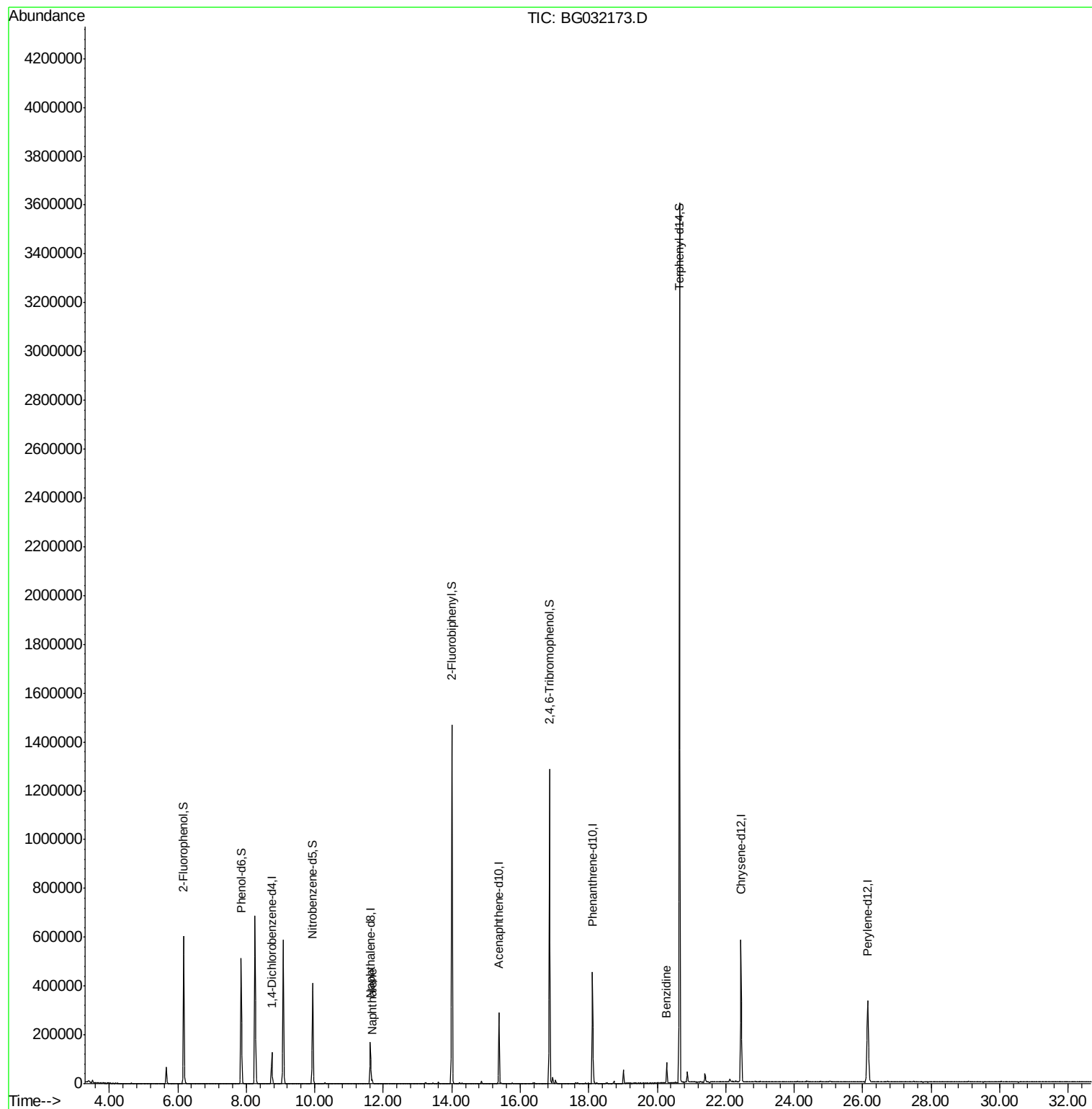
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.74  | 152  | 43997    | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 11.62 | 136  | 166796   | 20.00  | ng    | 0.00        |
| 38) Acenaphthene-d10        | 15.38 | 164  | 109184   | 20.00  | ng    | 0.00        |
| 63) Phenanthrene-d10        | 18.11 | 188  | 306153   | 20.00  | ng    | 0.00        |
| 75) Chrysene-d12            | 22.45 | 240  | 450641   | 20.00  | ng    | 0.00        |
| 86) Perylene-d12            | 26.15 | 264  | 466248   | 20.00  | ng    | 0.00        |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 6.17  | 112  | 307762   | 127.94 | ng    | 0.00        |
| 7) Phenol-d6                | 7.85  | 99   | 331734   | 109.49 | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 9.94  | 82   | 255060   | 103.46 | ng    | 0.00        |
| 41) 2,4,6-Tribromophenol    | 16.85 | 330  | 282479   | 156.35 | ng    | 0.00        |
| 44) 2-Fluorobiphenyl        | 14.00 | 172  | 863463   | 98.06  | ng    | 0.00        |
| 78) Terphenyl-d14           | 20.65 | 244  | 1884985  | 92.36  | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 31) Naphthalene             | 11.68 | 128  | 16971    | 2.054  | ng    | Qvalue # 94 |
| 76) Benzidine               | 20.27 | 184  | 59955    | 5.320  | ng    | 98          |

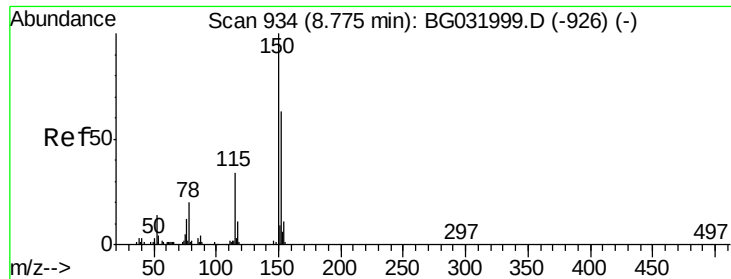
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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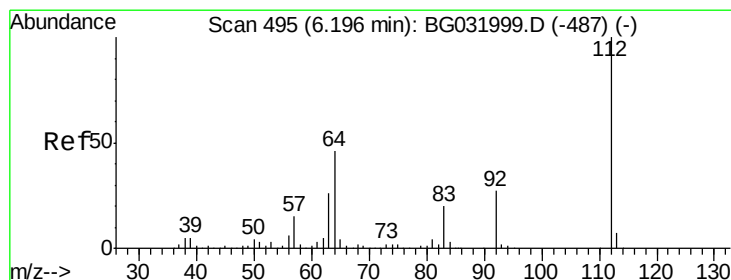
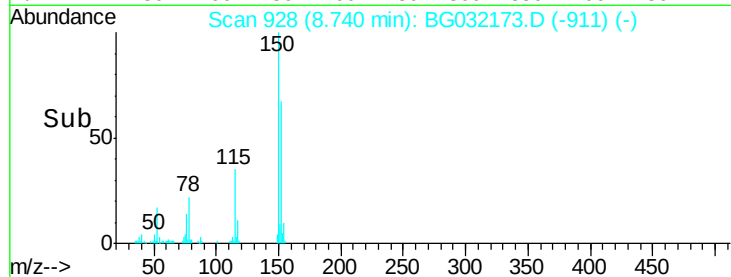
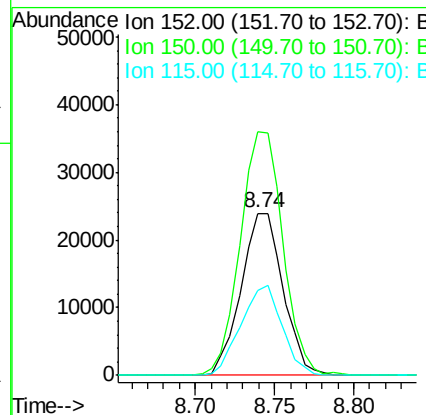
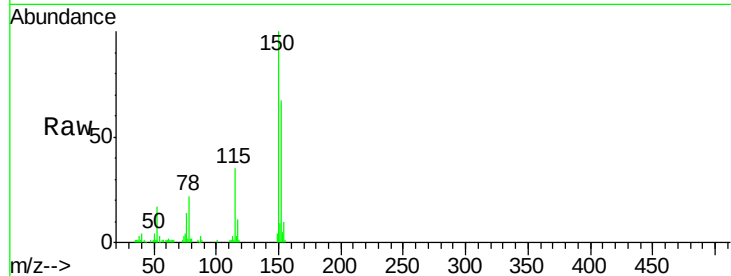


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.74 min Scan# 928  
Delta R.T. -0.00 min  
Lab File: BG032173.D  
Acq: 20 Jan 2018 6:22

Instrument :  
BNA\_G  
ClientSampled :  
RO-285

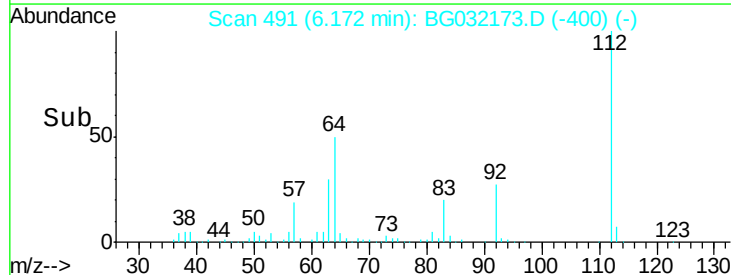
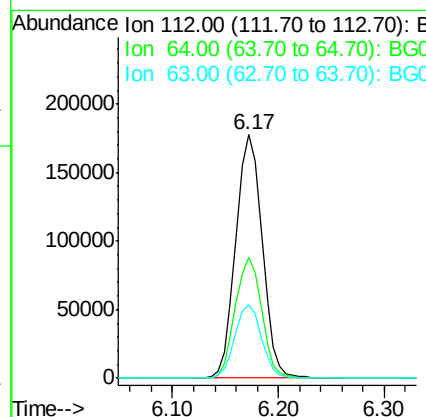
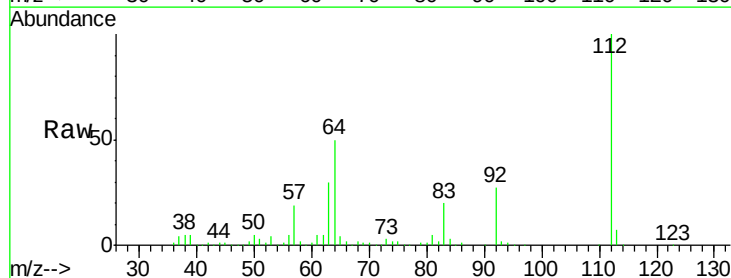
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 150.3 | 126.6 | 189.8 |
| 115     | 52.3  | 53.0  | 79.4  |

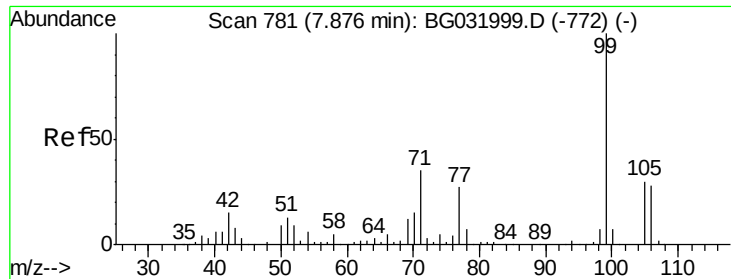


#5

2-Fluorophenol  
Concen: 127.935 ng  
RT: 6.17 min Scan# 491  
Delta R.T. 0.00 min  
Lab File: BG032173.D  
Acq: 20 Jan 2018 6:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 49.6  | 56.3  | 84.5  |
| 63      | 30.2  | 30.1  | 45.1  |





#7

Phenol-d6

Concen: 109.493 ng

RT: 7.85 min Scan# 777

Delta R.T. 0.00 min

Lab File: BG032173.D

Acq: 20 Jan 2018 6:22

Instrument :

BNA\_G

ClientSampleId :

RO-285

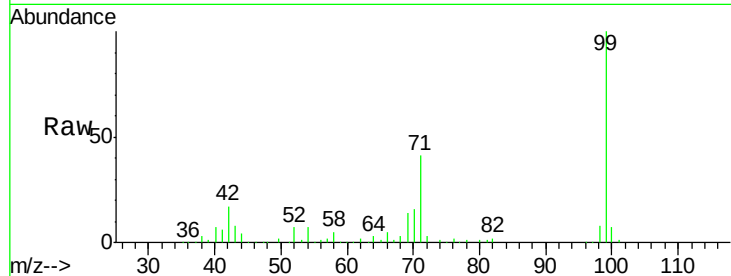
Tot Ion: 99 Resp: 331734

Ion Ratio Lower Upper

99 100

42 17.0 14.1 21.1

71 40.8 26.1 39.1#

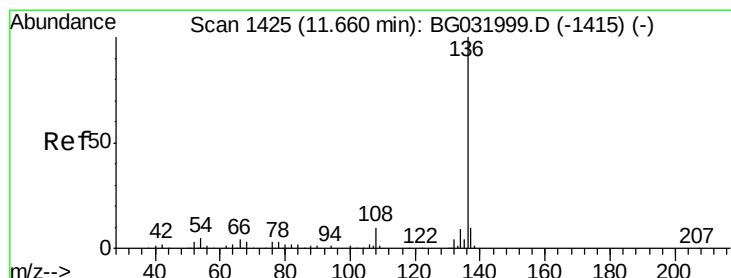
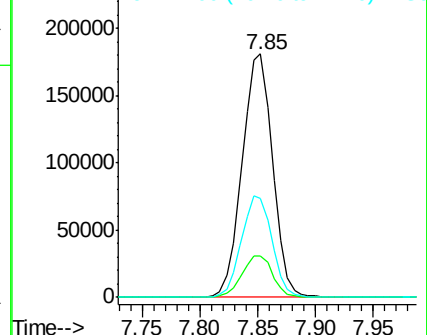
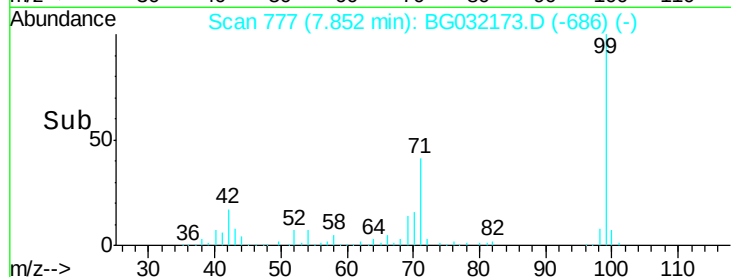


Abundance

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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 11.62 min Scan# 1419

Delta R.T. -0.00 min

Lab File: BG032173.D

Acq: 20 Jan 2018 6:22

Tgt Ion: 136 Resp: 166796

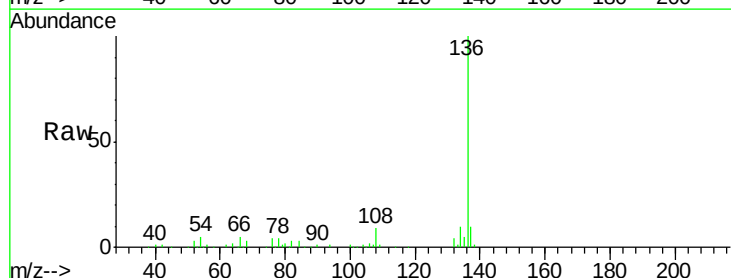
Ion Ratio Lower Upper

136 100

137 10.0 9.2 13.8

54 4.7 10.3 15.5#

68 2.5 4.5 6.7#



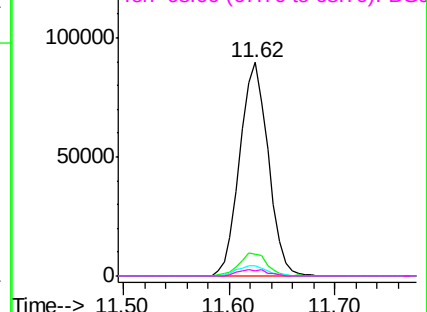
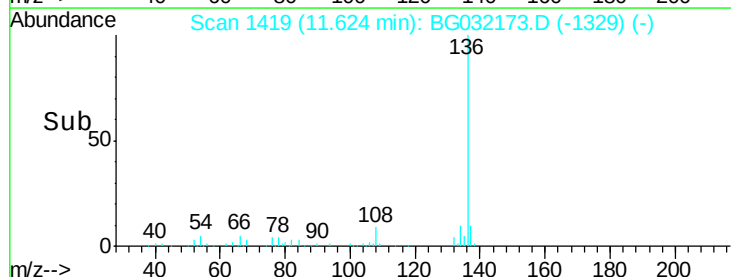
Abundance

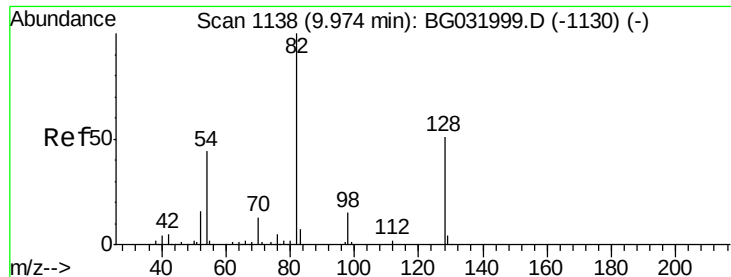
Ion 136.00 (135.70 to 136.70): BGC

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

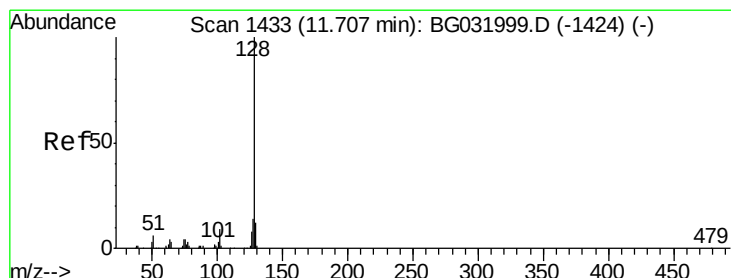
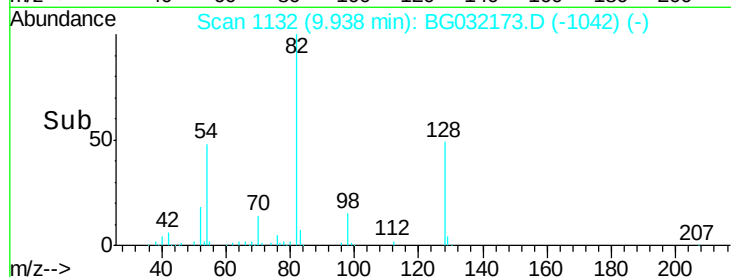
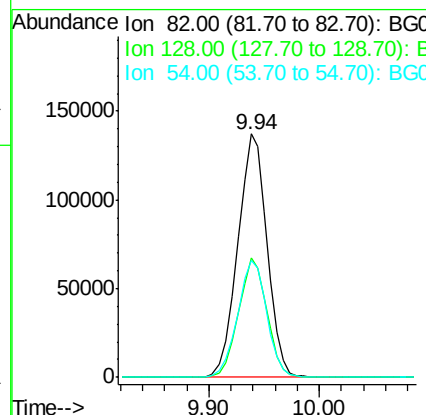
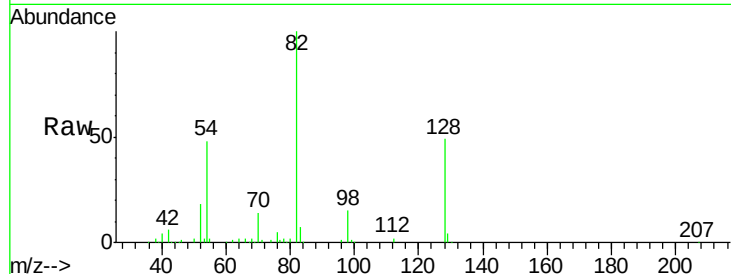




#23  
 Nitrobenzene-d5  
 Concen: 103.455 ng  
 RT: 9.94 min Scan# 1132  
 Delta R.T. -0.00 min  
 Lab File: BG032173.D  
 Acq: 20 Jan 2018 6:22

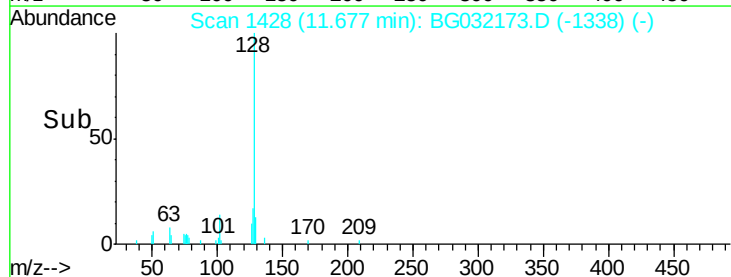
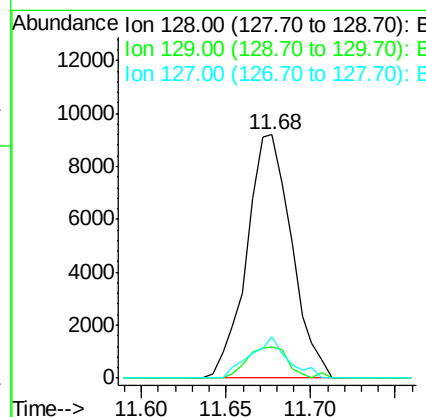
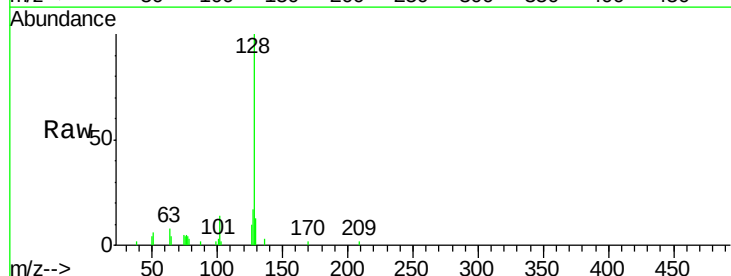
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RO-285

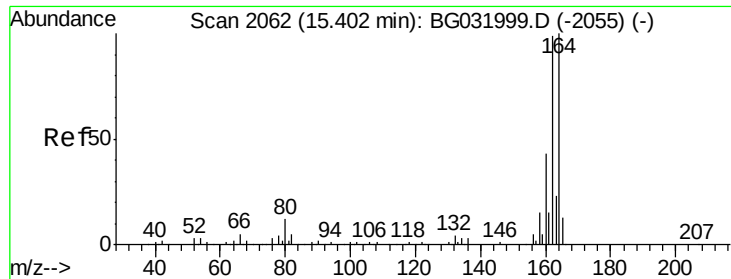
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 49.2  | 29.7  | 44.5# |
| 54      | 48.0  | 43.1  | 64.7  |



#31  
 Naphthalene  
 Concen: 2.054 ng  
 RT: 11.68 min Scan# 1428  
 Delta R.T. -0.00 min  
 Lab File: BG032173.D  
 Acq: 20 Jan 2018 6:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 13.0  | 8.6   | 12.8# |
| 127     | 17.2  | 11.6  | 17.4  |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 15.38 min Scan# 2058

Delta R.T. -0.00 min

Lab File: BG032173.D

Acq: 20 Jan 2018 6:22

Instrument :

BNA\_G

ClientSampleId :

RO-285

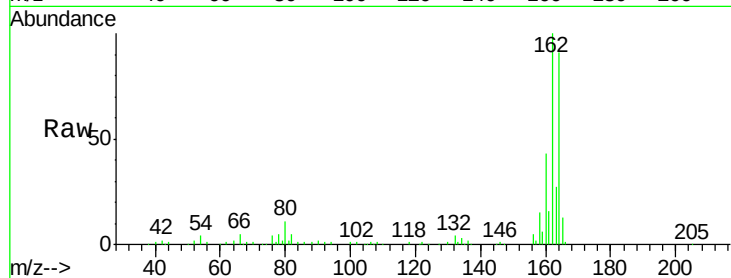
Tot Ion:164 Resp: 109184

Ion Ratio Lower Upper

164 100

162 109.6 78.8 118.2

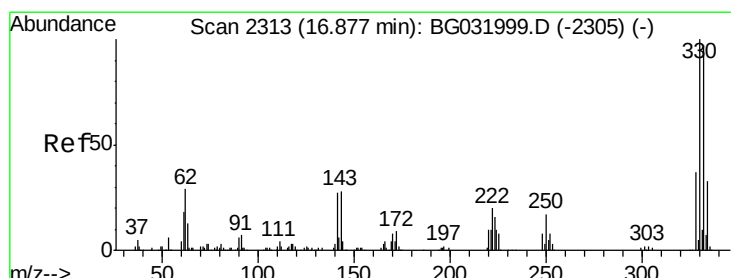
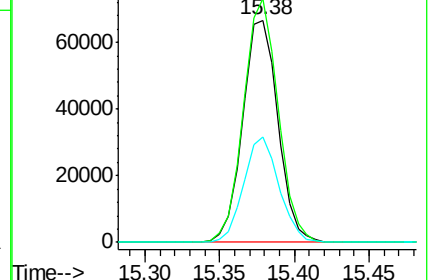
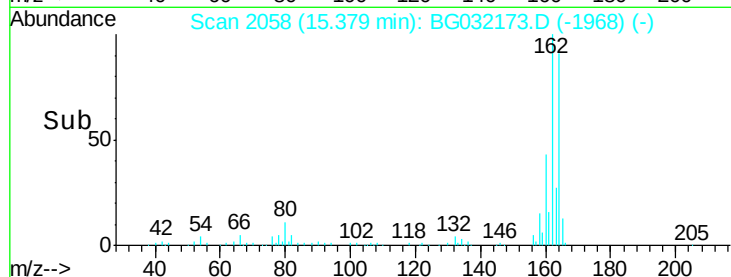
160 47.4 35.4 53.0



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: 156.347 ng

RT: 16.85 min Scan# 2309

Delta R.T. -0.00 min

Lab File: BG032173.D

Acq: 20 Jan 2018 6:22

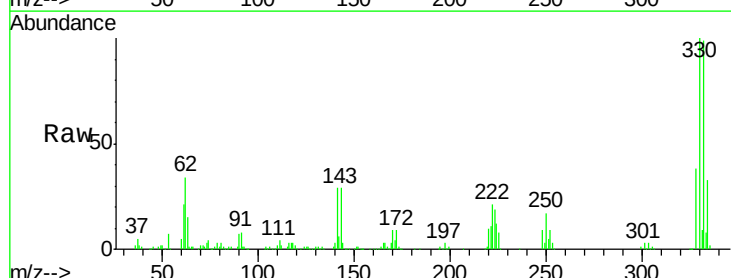
Tgt Ion:330 Resp: 282479

Ion Ratio Lower Upper

330 100

332 98.0 77.0 115.6

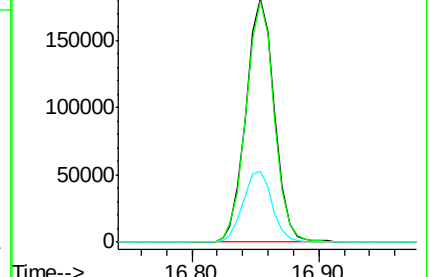
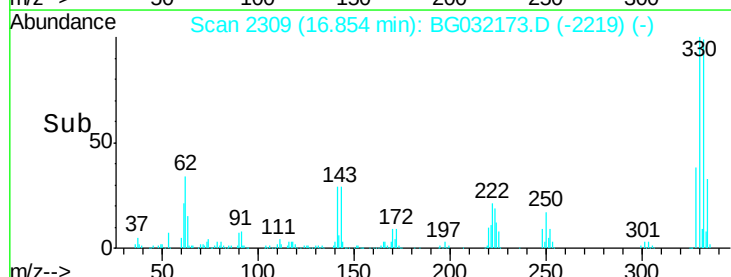
141 29.6 25.2 37.8

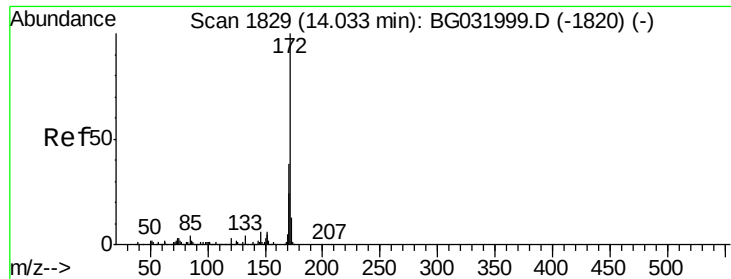


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

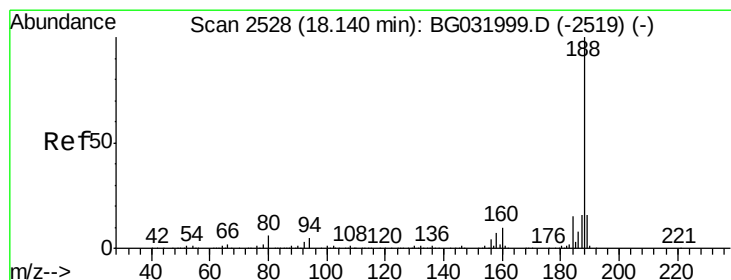
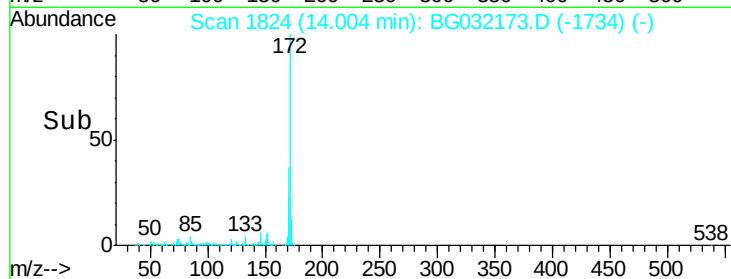
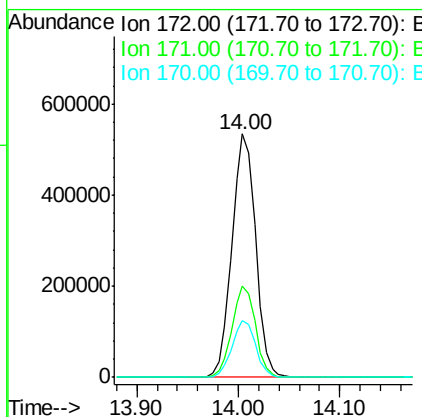
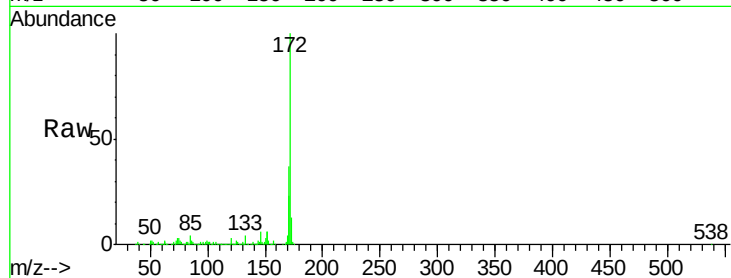




#44  
2-Fluorobiphenyl  
Concen: 98.059 ng  
RT: 14.00 min Scan# 1824  
Delta R.T. -0.00 min  
Lab File: BG032173.D  
Acq: 20 Jan 2018 6:22

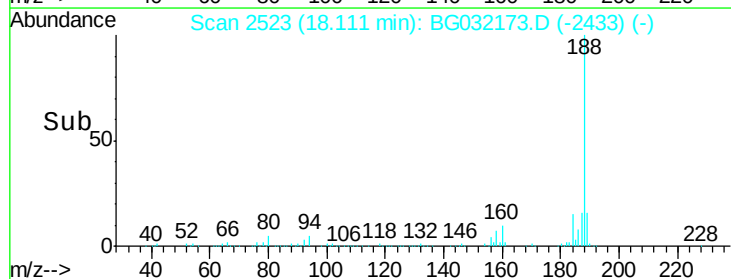
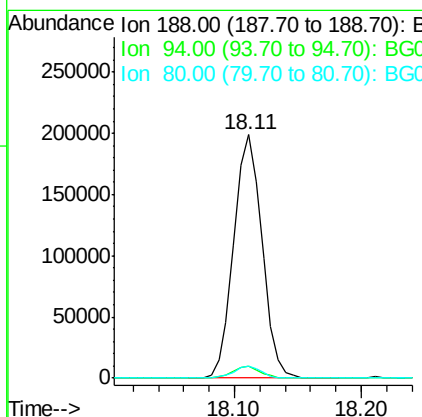
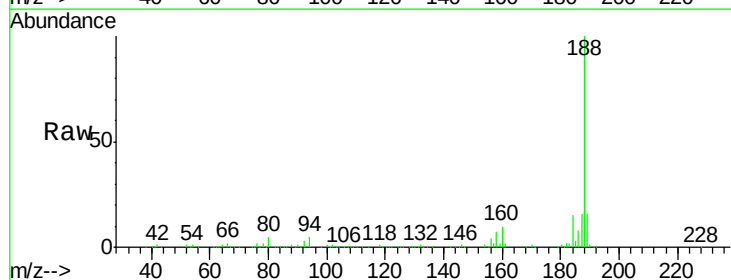
Instrument :  
BNA\_G  
ClientSampleId :  
RO-285

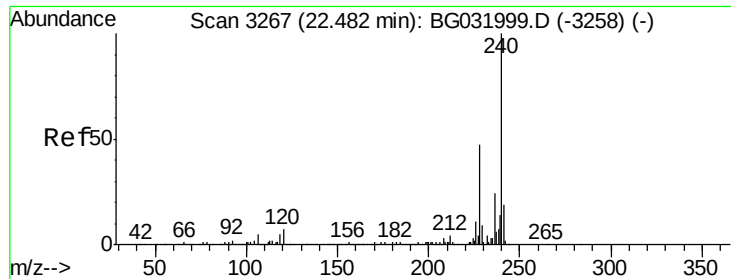
Tot Ion:172 Resp: 863463  
Ion Ratio Lower Upper  
172 100  
171 37.3 30.0 45.0  
170 23.2 19.5 29.3



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.11 min Scan# 2523  
Delta R.T. -0.00 min  
Lab File: BG032173.D  
Acq: 20 Jan 2018 6:22

Tgt Ion:188 Resp: 306153  
Ion Ratio Lower Upper  
188 100  
94 4.8 6.9 10.3#  
80 4.7 7.7 11.5#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.45 min Scan# 3261

Delta R.T. -0.00 min

Lab File: BG032173.D

Acq: 20 Jan 2018 6:22

Instrument :

BNA\_G

ClientSampleId :

RO-285

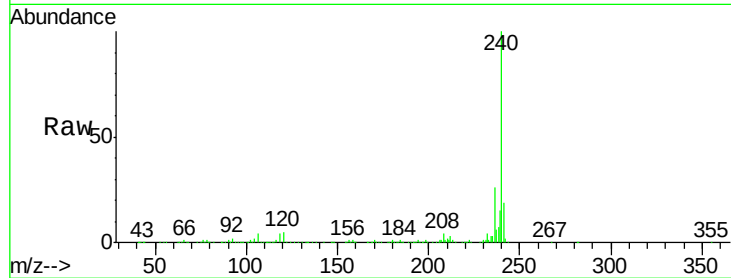
Tot Ion:240 Resp: 450641

Ion Ratio Lower Upper

240 100

120 4.6 6.8 10.2#

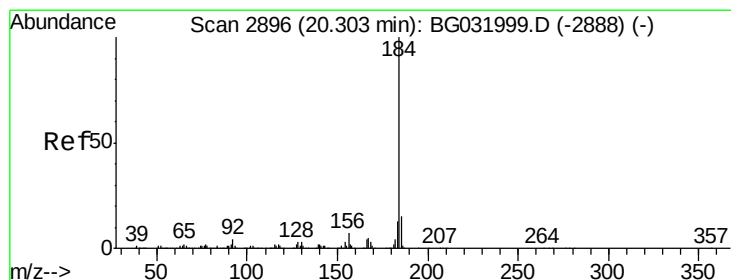
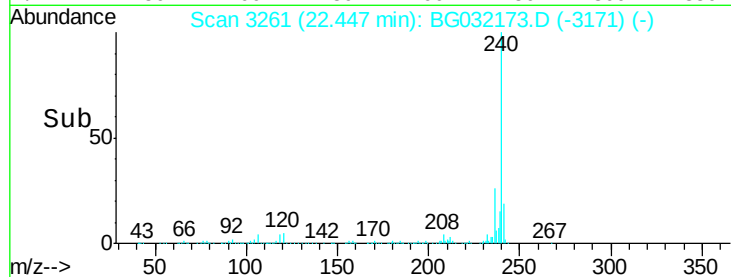
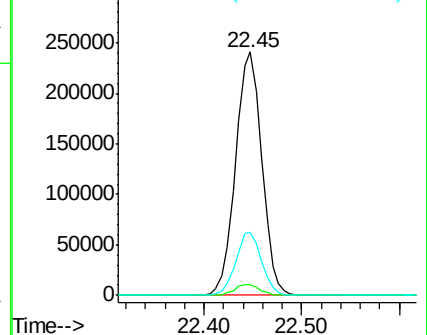
236 25.7 20.9 31.3



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: 5.320 ng

RT: 20.27 min Scan# 2891

Delta R.T. -0.00 min

Lab File: BG032173.D

Acq: 20 Jan 2018 6:22

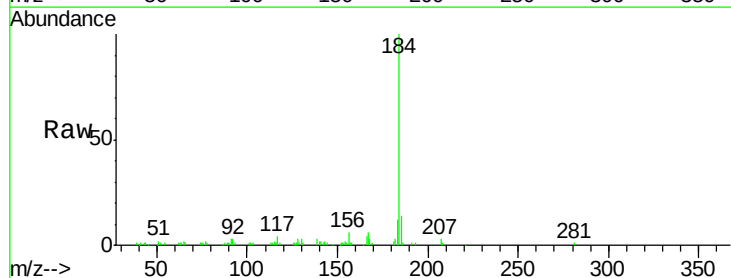
Tgt Ion:184 Resp: 59955

Ion Ratio Lower Upper

184 100

185 14.2 11.1 16.7

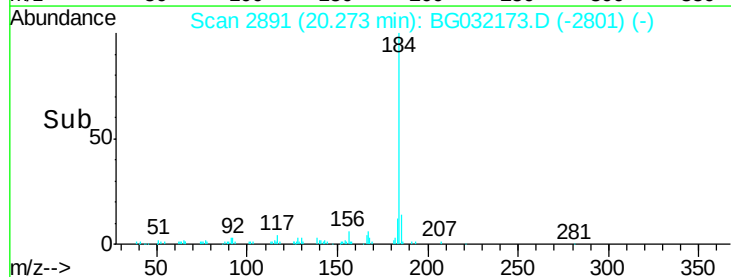
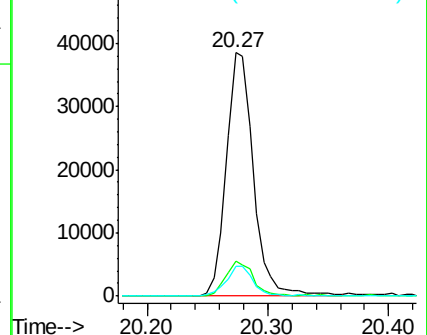
183 12.3 10.6 16.0



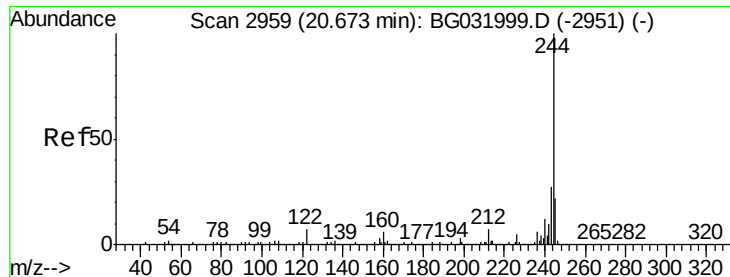
Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E







#78

Terphenyl-d14

Concen: 92.360 ng

RT: 20.65 min Scan# 2955

Delta R.T. -0.00 min

Lab File: BG032173.D

Acq: 20 Jan 2018 6:22

Instrument :

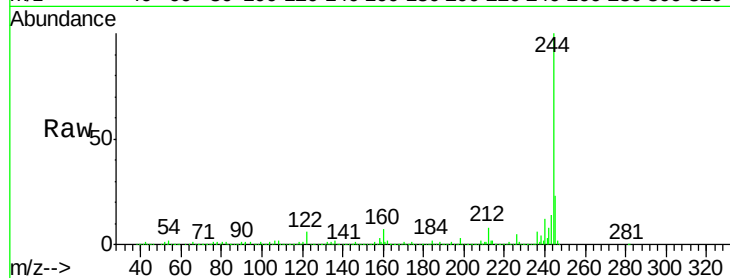
BNA\_G

ClientSampleId :

RO-285

Tot Ion:244 Resp: 1884985

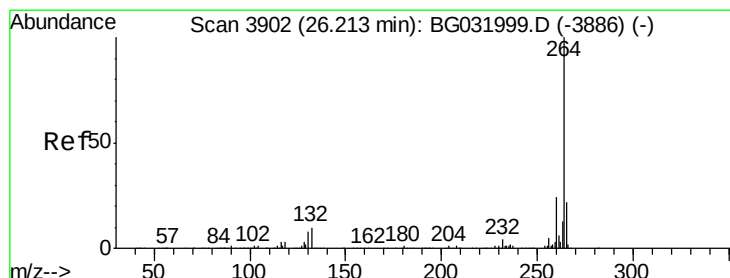
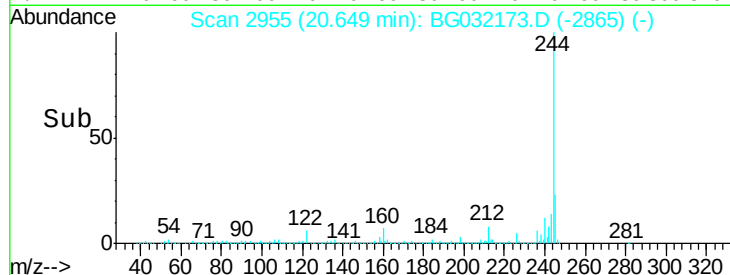
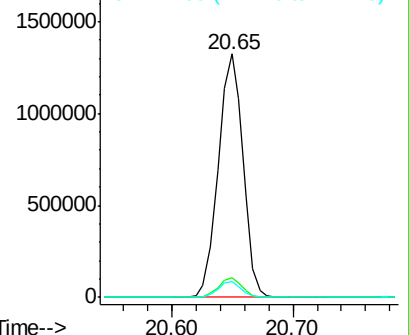
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.0   | 5.8   | 8.8   |
| 122 | 6.3   | 7.0   | 10.4  |



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: 26.15 min Scan# 3891

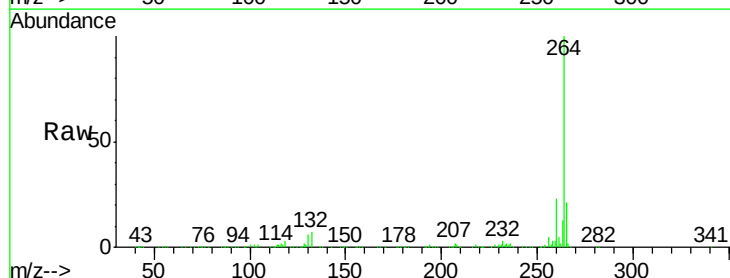
Delta R.T. -0.00 min

Lab File: BG032173.D

Acq: 20 Jan 2018 6:22

Tgt Ion:264 Resp: 466248

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.8  | 17.4  | 26.0  |
| 265 | 21.0  | 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

