

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG120417\  
 Data File : BG031361.D  
 Acq On : 5 Dec 2017 00:16  
 Operator : SJ/JU  
 Sample : I6642-03  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PENN-1-E(7-8)

Quant Time: Dec 05 04:20:38 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG111017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 10 15:38:25 2017  
 Response via : Initial Calibration

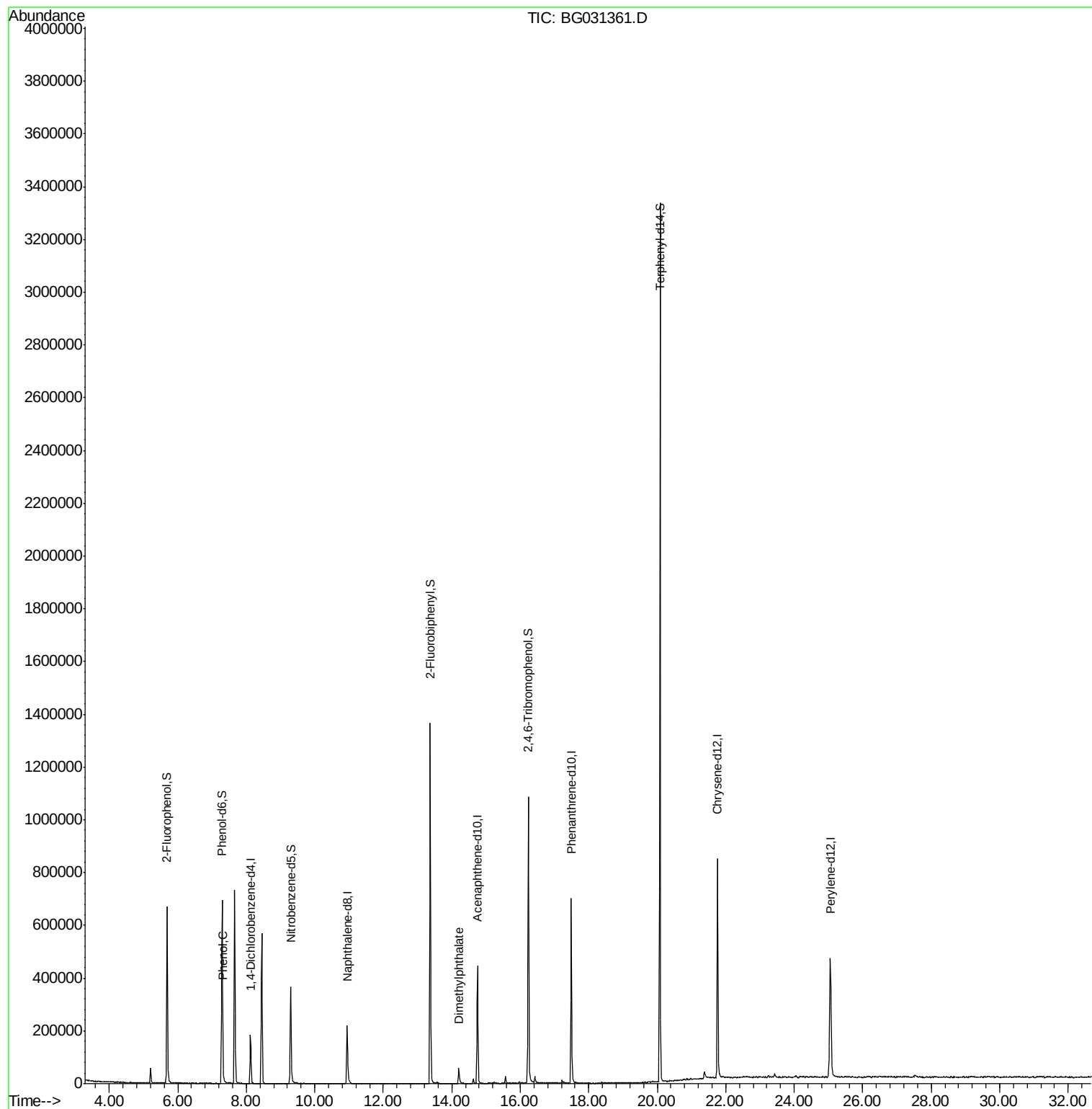
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.13  | 152  | 59463    | 20.00  | ng    | -0.02       |
| 21) Naphthalene-d8          | 10.94 | 136  | 256213   | 20.00  | ng    | -0.02       |
| 38) Acenaphthene-d10        | 14.75 | 164  | 178773   | 20.00  | ng    | -0.02       |
| 63) Phenanthrene-d10        | 17.49 | 188  | 492135   | 20.00  | ng    | -0.02       |
| 75) Chrysene-d12            | 21.76 | 240  | 571265   | 20.00  | ng    | -0.02       |
| 86) Perylene-d12            | 25.05 | 264  | 555918   | 20.00  | ng    | -0.04       |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.69  | 112  | 352843   | 101.75 | ng    | -0.02       |
| 7) Phenol-d6                | 7.30  | 99   | 477360   | 102.18 | ng    | -0.01       |
| 23) Nitrobenzene-d5         | 9.29  | 82   | 273025   | 63.14  | ng    | -0.03       |
| 41) 2,4,6-Tribromophenol    | 16.24 | 330  | 245401   | 84.86  | ng    | -0.02       |
| 44) 2-Fluorobiphenyl        | 13.37 | 172  | 843493   | 67.80  | ng    | -0.03       |
| 78) Terphenyl-d14           | 20.08 | 244  | 1672343  | 64.64  | ng    | -0.02       |
| Target Compounds            |       |      |          |        |       |             |
| 10) Phenol                  | 7.32  | 94   | 12265    | 2.528  | ng    | Qvalue # 72 |
| 49) Dimethylphthalate       | 14.21 | 163  | 64412    | 4.167  | ng    | 98          |

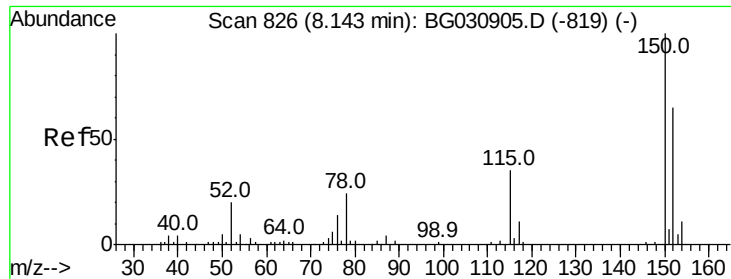
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG120417\  
Data File : BG031361.D  
Acq On : 5 Dec 2017 00:16  
Operator : SJ/JU  
Sample : I6642-03  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
PENN-1-E(7-8)

Quant Time: Dec 05 04:20:38 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG111017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 10 15:38:25 2017  
Response via : Initial Calibration



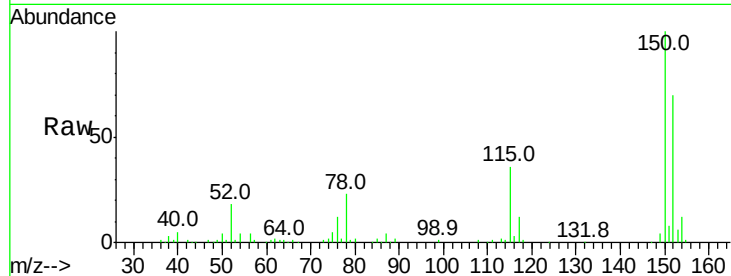


#1

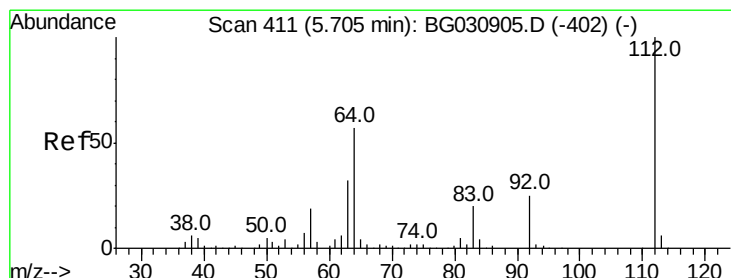
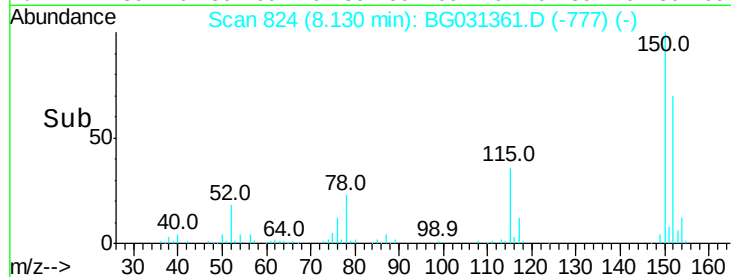
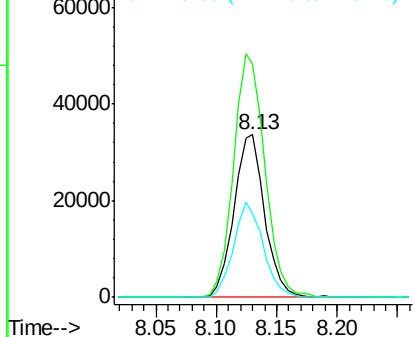
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.13 min Scan# 824  
Delta R.T. -0.02 min  
Lab File: BG031361.D  
Acq: 5 Dec 2017 00:16

Instrument :  
BNA\_G  
ClientSampleId :  
PENN-1-E(7-8)

Tot Ion:152 Resp: 59463  
Ion Ratio Lower Upper  
152 100  
150 143.7 126.6 189.8  
115 51.2 53.0 79.4#



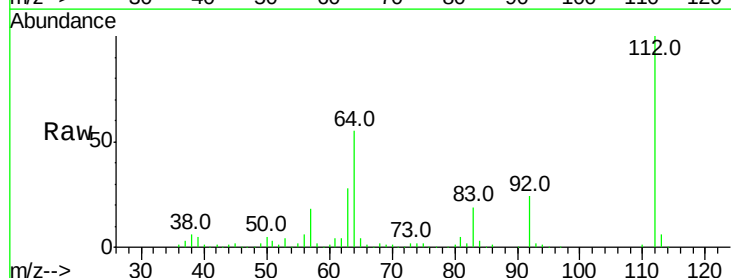
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



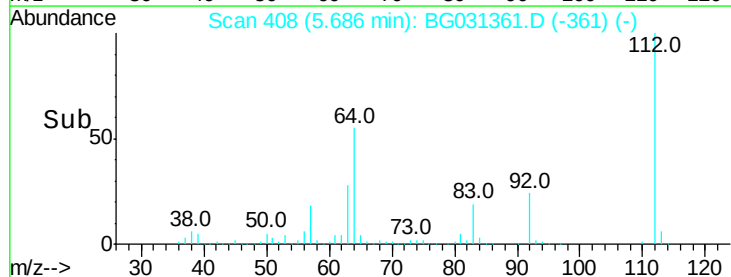
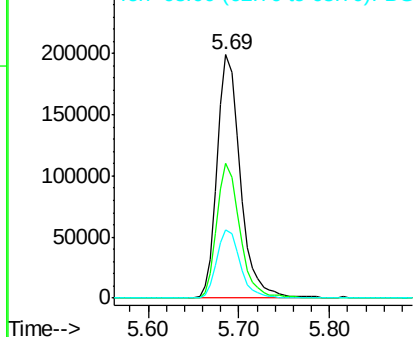
#5

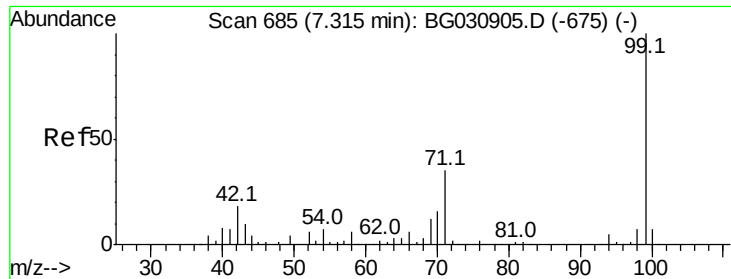
2-Fluorophenol  
Concen: 101.751 ng  
RT: 5.69 min Scan# 408  
Delta R.T. -0.02 min  
Lab File: BG031361.D  
Acq: 5 Dec 2017 00:16

Tgt Ion:112 Resp: 352843  
Ion Ratio Lower Upper  
112 100  
64 55.1 56.3 84.5#  
63 28.2 30.1 45.1#



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: 102.180 ng

RT: 7.30 min Scan# 682

Delta R.T. -0.01 min

Lab File: BG031361.D

Acq: 5 Dec 2017 00:16

Instrument :

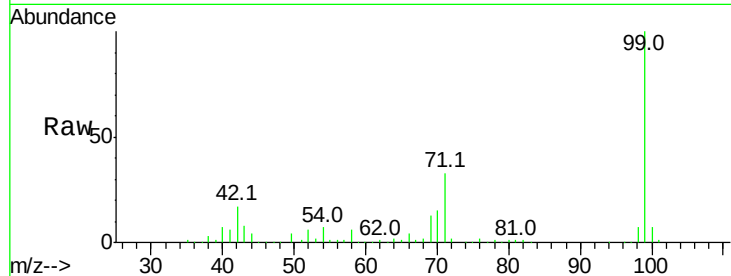
BNA\_G

ClientSampleId :

PENN-1-E(7-8)

Tot Ion: 99 Resp: 477360

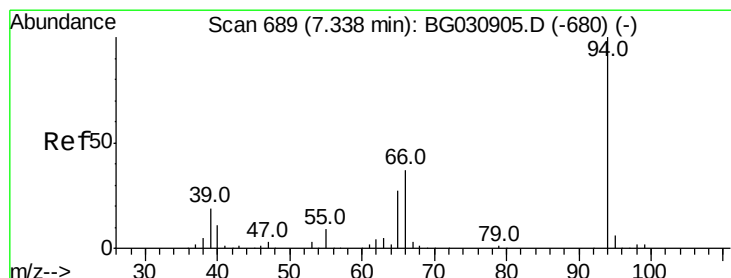
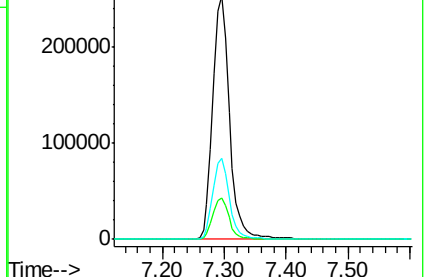
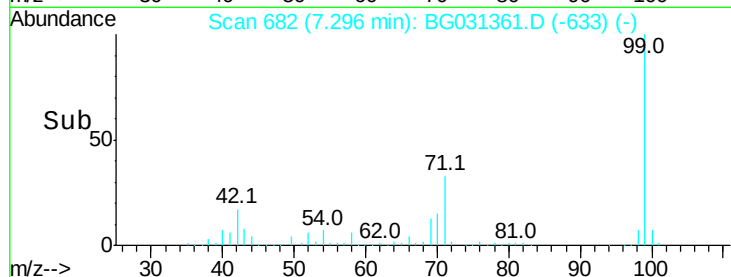
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 17.0  | 14.1  | 21.1  |
| 71  | 33.3  | 26.1  | 39.1  |



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



#10

Phenol

Concen: 2.528 ng

RT: 7.32 min Scan# 686

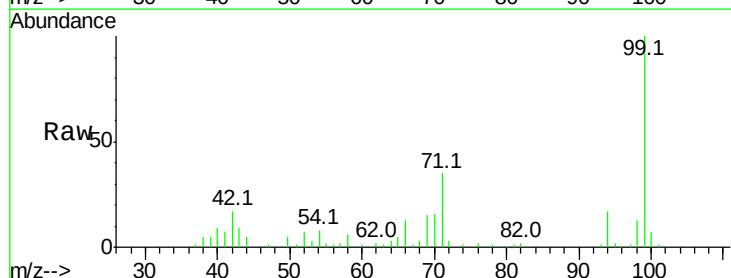
Delta R.T. -0.02 min

Lab File: BG031361.D

Acq: 5 Dec 2017 00:16

Tgt Ion: 94 Resp: 12265

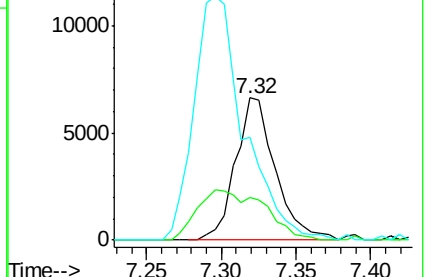
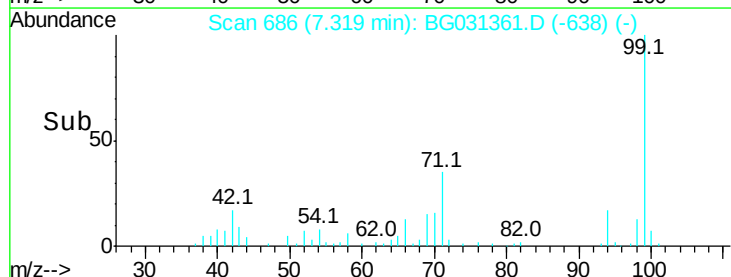
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 29.9  | 11.9  | 51.9  |
| 66  | 72.0  | 22.2  | 62.2# |

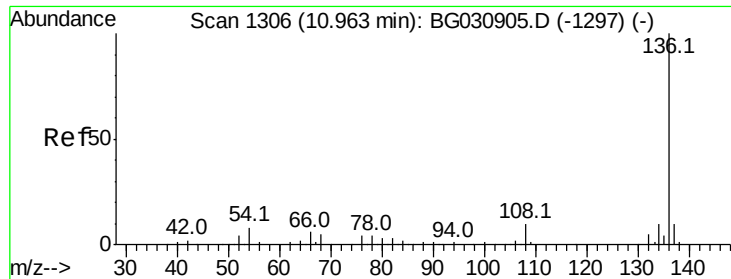


Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

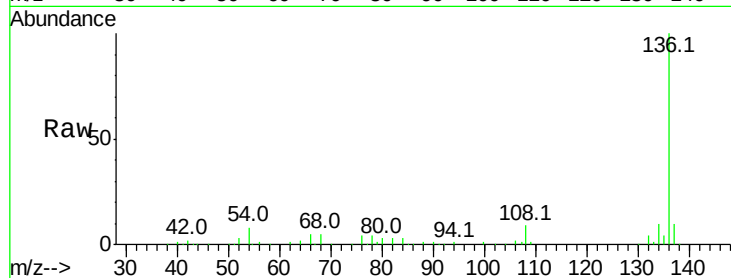




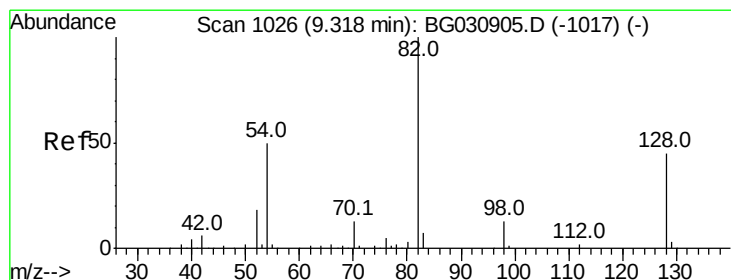
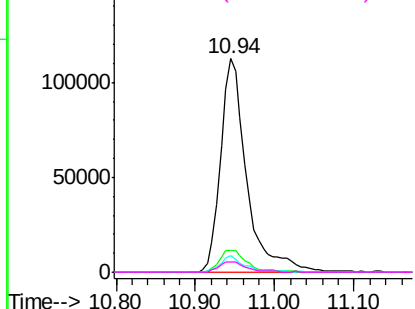
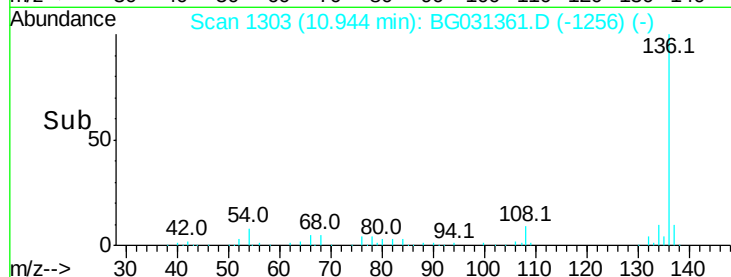
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.94 min Scan# 1303  
Delta R.T. -0.02 min  
Lab File: BG031361.D  
Acq: 5 Dec 2017 00:16

Instrument :  
BNA\_G  
ClientSampleId :  
PENN-1-E(7-8)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.3  | 9.2   | 13.8  |
| 54      | 8.1   | 10.3  | 15.5  |
| 68      | 5.0   | 4.5   | 6.7   |

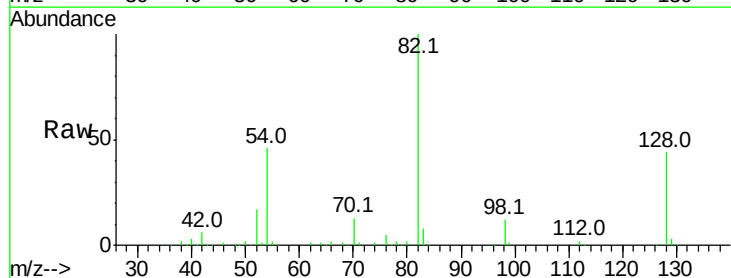


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

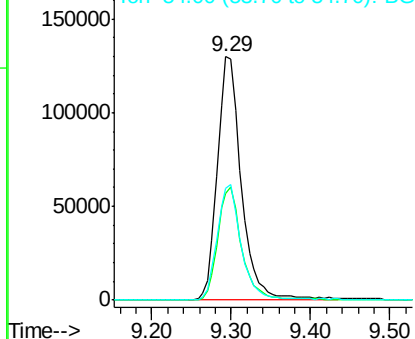
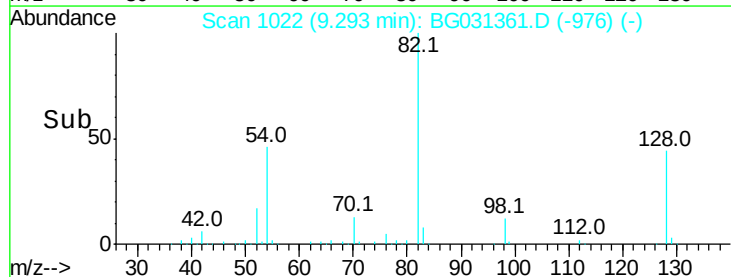


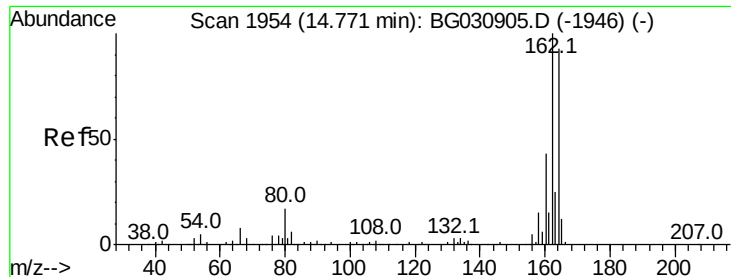
#23  
Nitrobenzene-d5  
Concen: 63.144 ng  
RT: 9.29 min Scan# 1022  
Delta R.T. -0.03 min  
Lab File: BG031361.D  
Acq: 5 Dec 2017 00:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.6  | 29.7  | 44.5  |
| 54      | 45.9  | 43.1  | 64.7  |



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

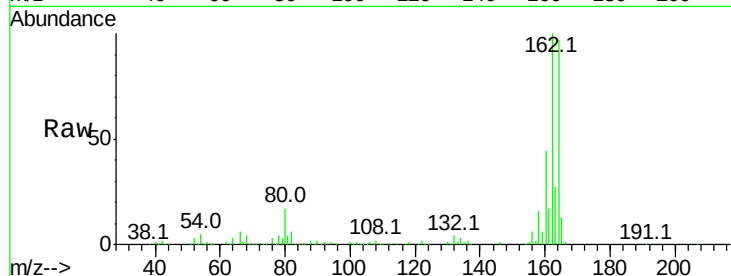




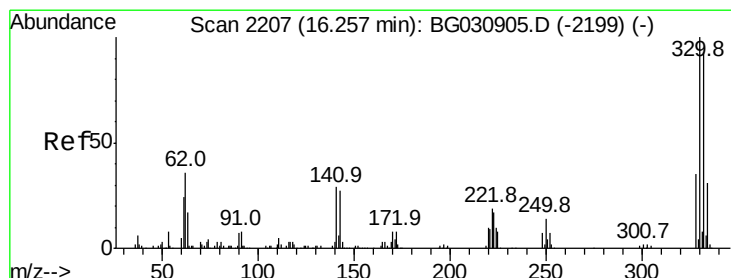
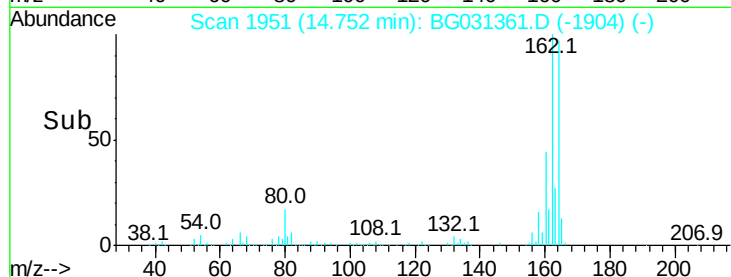
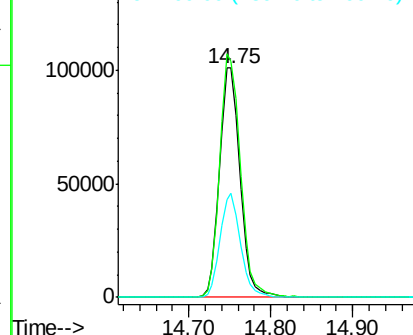
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.75 min Scan# 1951  
 Delta R.T. -0.02 min  
 Lab File: BG031361.D  
 Acq: 5 Dec 2017 00:16

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PENN-1-E(7-8)

Tot Ion:164 Resp: 178773  
 Ion Ratio Lower Upper  
 164 100  
 162 102.6 78.8 118.2  
 160 45.3 35.4 53.0

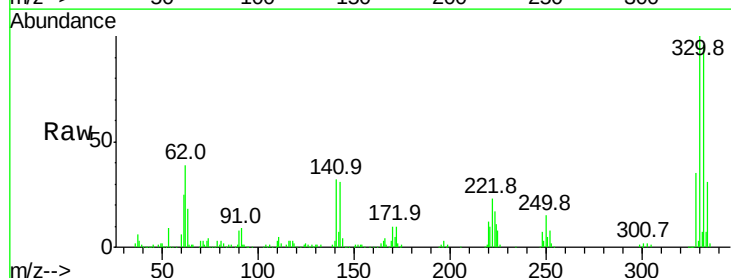


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

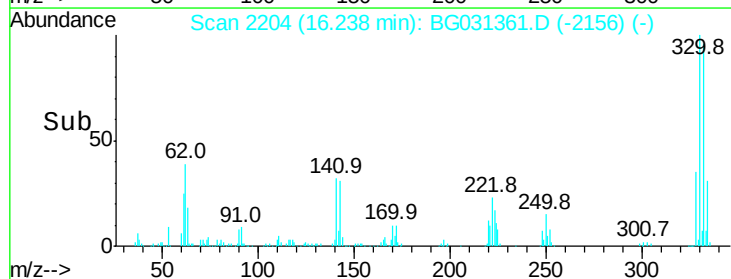
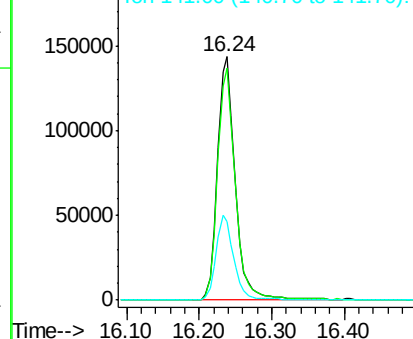


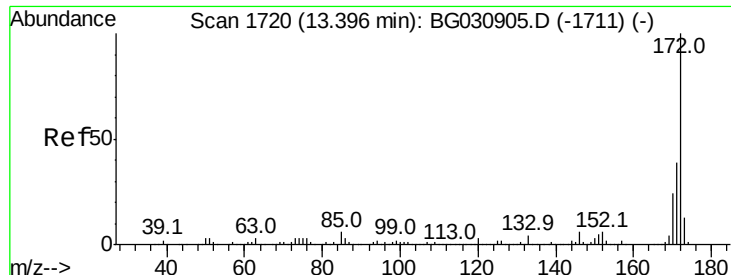
#41  
 2,4,6-Tribromophenol  
 Concen: 84.856 ng  
 RT: 16.24 min Scan# 2204  
 Delta R.T. -0.02 min  
 Lab File: BG031361.D  
 Acq: 5 Dec 2017 00:16

Tgt Ion:330 Resp: 245401  
 Ion Ratio Lower Upper  
 330 100  
 332 95.7 77.0 115.6  
 141 34.8 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

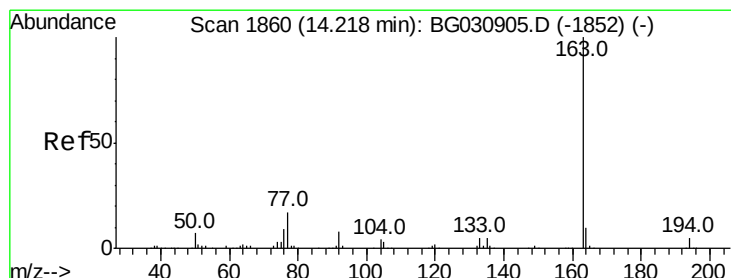
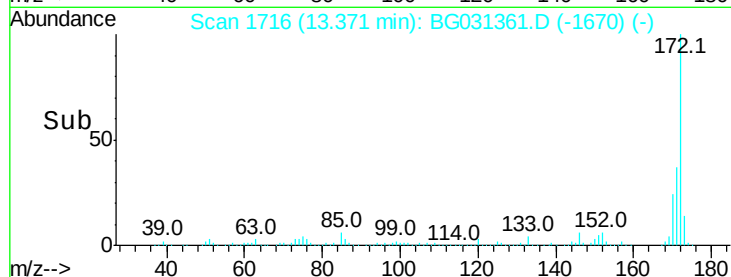
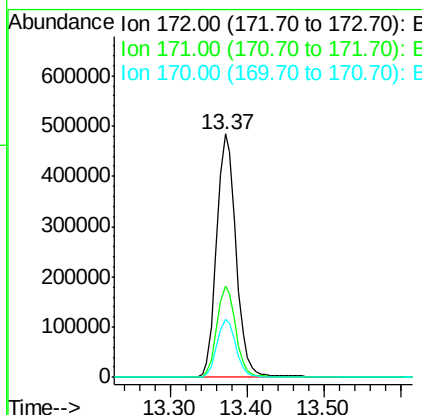
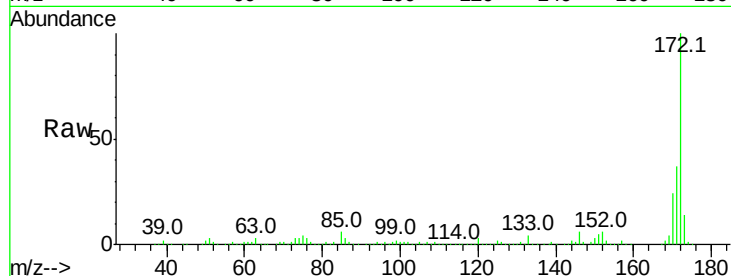




#44  
2-Fluorobiphenyl  
Concen: 67.796 ng  
RT: 13.37 min Scan# 1716  
Delta R.T. -0.03 min  
Lab File: BG031361.D  
Acq: 5 Dec 2017 00:16

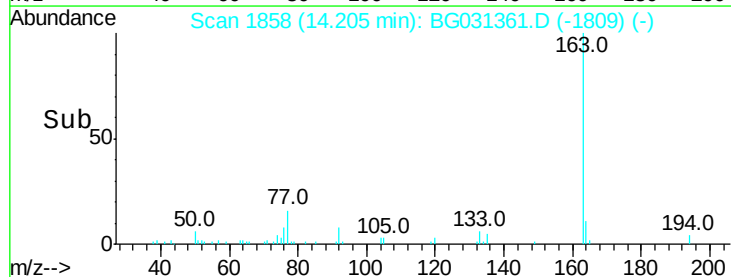
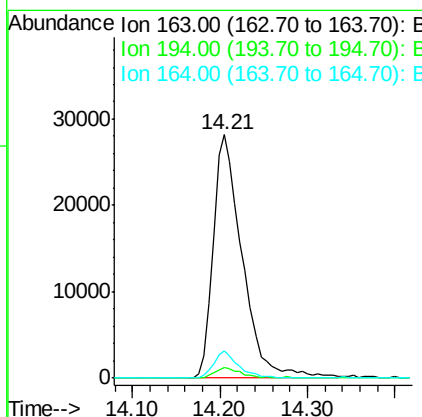
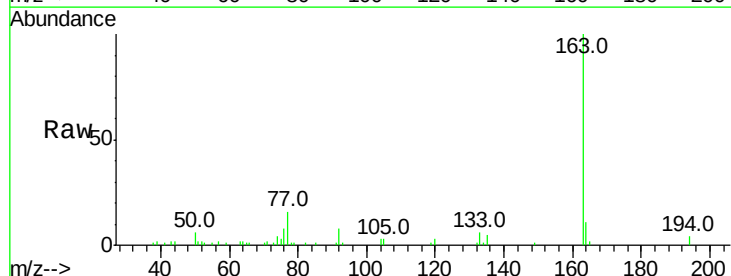
Instrument :  
BNA\_G  
ClientSampleId :  
PENN-1-E(7-8)

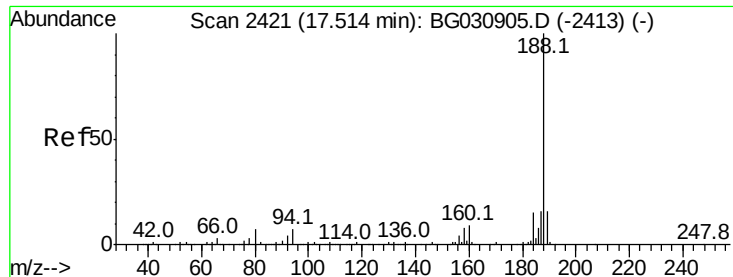
Tot Ion:172 Resp: 843493  
Ion Ratio Lower Upper  
172 100  
171 37.5 30.0 45.0  
170 24.1 19.5 29.3



#49  
Dimethylphthalate  
Concen: 4.167 ng  
RT: 14.21 min Scan# 1858  
Delta R.T. -0.01 min  
Lab File: BG031361.D  
Acq: 5 Dec 2017 00:16

Tgt Ion:163 Resp: 64412  
Ion Ratio Lower Upper  
163 100  
194 4.3 3.4 5.2  
164 11.2 8.2 12.4

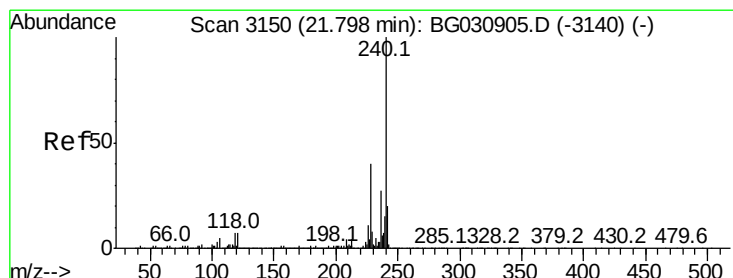
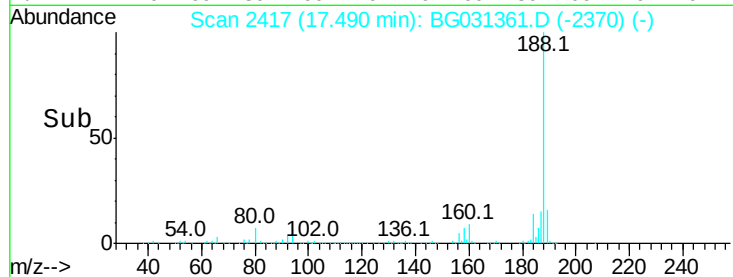
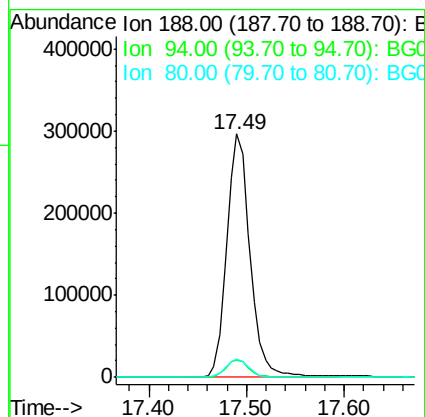
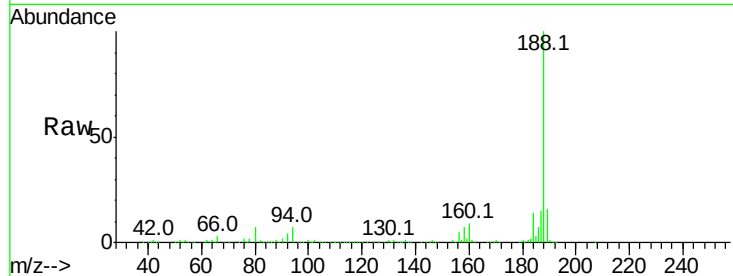




#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.49 min Scan# 2417  
 Delta R.T. -0.02 min  
 Lab File: BG031361.D  
 Acq: 5 Dec 2017 00:16

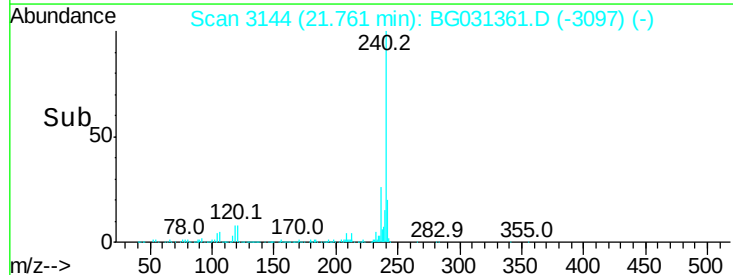
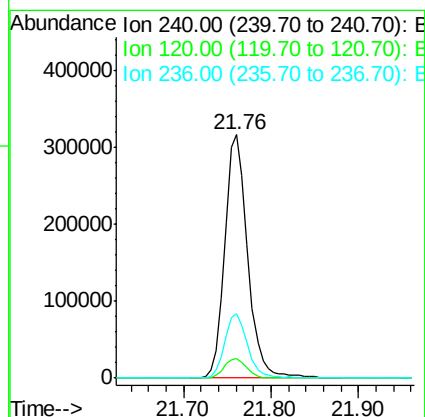
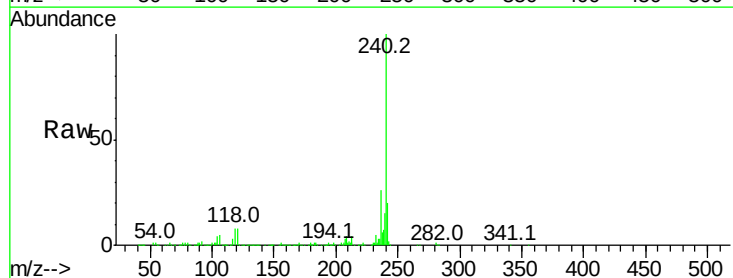
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PENN-1-E(7-8)

Tot Ion:188 Resp: 492135  
 Ion Ratio Lower Upper  
 188 100  
 94 7.0 6.9 10.3  
 80 7.4 7.7 11.5#

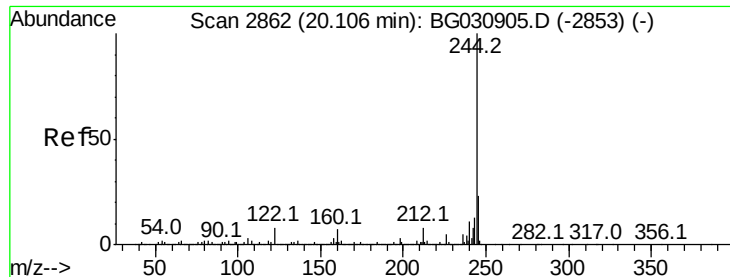


#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.76 min Scan# 3144  
 Delta R.T. -0.02 min  
 Lab File: BG031361.D  
 Acq: 5 Dec 2017 00:16

Tgt Ion:240 Resp: 571265  
 Ion Ratio Lower Upper  
 240 100  
 120 8.1 6.8 10.2  
 236 26.3 20.9 31.3







#78

Terphenyl-d14

Concen: 64.640 ng

RT: 20.08 min Scan# 2858

Delta R.T. -0.02 min

Lab File: BG031361.D

Acq: 5 Dec 2017 00:16

Instrument :

BNA\_G

ClientSampleId :

PENN-1-E(7-8)

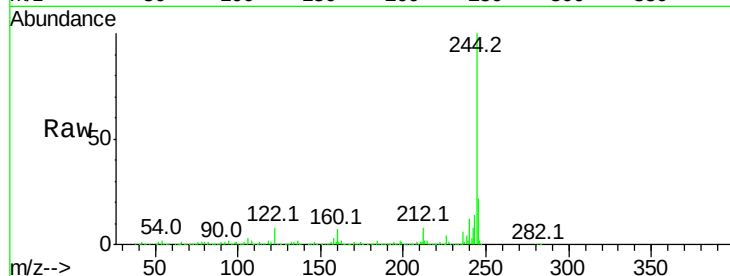
Tot Ion:244 Resp: 1672343

Ion Ratio Lower Upper

244 100

212 7.8 5.8 8.8

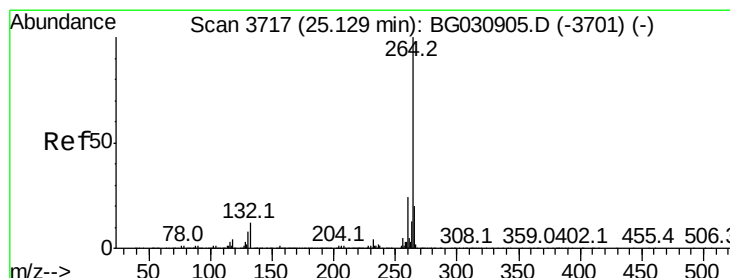
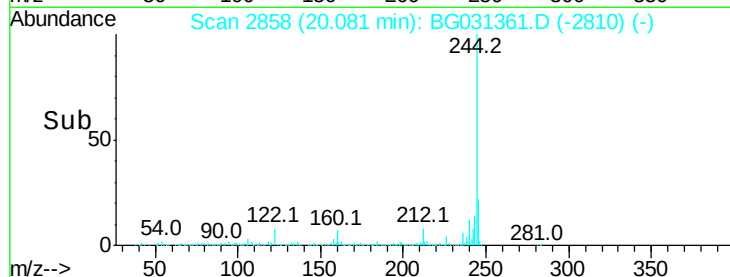
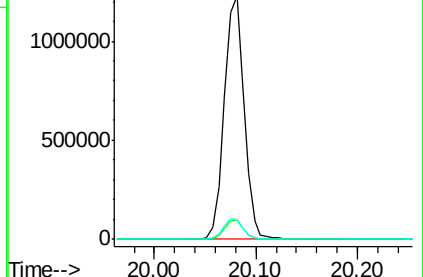
122 8.1 7.0 10.4



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: 25.05 min Scan# 3704

Delta R.T. -0.04 min

Lab File: BG031361.D

Acq: 5 Dec 2017 00:16

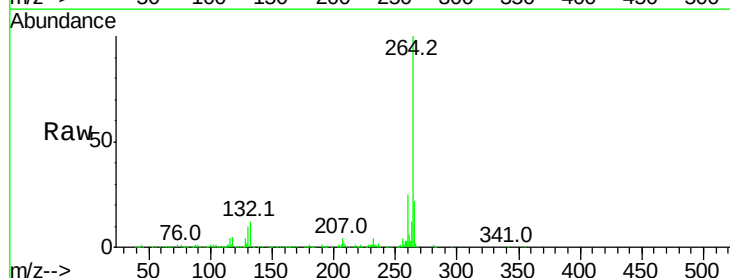
Tgt Ion:264 Resp: 555918

Ion Ratio Lower Upper

264 100

260 24.5 17.4 26.0

265 22.3 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

