

Data Path : Z:\HPCHEM1\BNA G\DATA\BG112217\  
 Data File : BG031212.D  
 Acq On : 23 Nov 2017 6:21  
 Operator : SJ/JU  
 Sample : I6305-14  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Nov 23 23:20:54 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

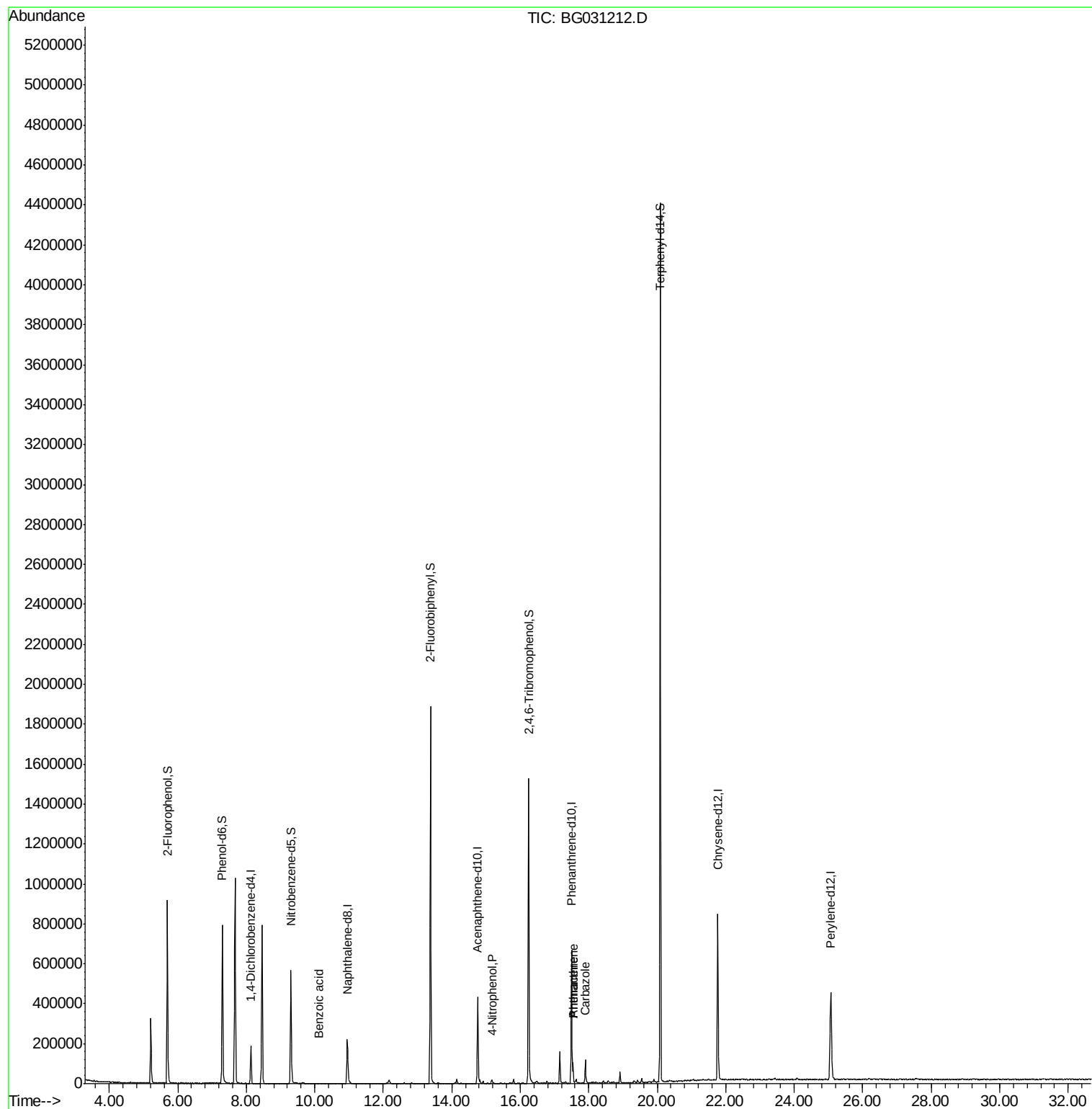
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.13  | 152  | 58473    | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.95 | 136  | 247440   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10        | 14.76 | 164  | 162007   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10        | 17.49 | 188  | 429530   | 20.00  | ng    | -0.02    |
| 75) Chrysene-d12            | 21.77 | 240  | 542626   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12            | 25.07 | 264  | 528422   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.70  | 112  | 456856   | 133.98 | ng    | -0.01    |
| 7) Phenol-d6                | 7.30  | 99   | 524233   | 114.11 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.30  | 82   | 391508   | 93.76  | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 16.24 | 330  | 329018   | 125.54 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 13.38 | 172  | 1113492  | 98.76  | ng    | -0.02    |
| 78) Terphenyl-d14           | 20.09 | 244  | 2151677  | 87.56  | ng    | -0.01    |
| Target Compounds            |       |      |          |        |       |          |
| 32) Benzoic acid            | 10.11 | 122  | 53       | 5.68   | ng    | # 1      |
| 55) 4-Nitrophenol           | 15.17 | 139  | 5453     | 2.50   | ng    | # 2      |
| 70) Phenanthrene            | 17.54 | 178  | 70530    | 3.15   | ng    | 97       |
| 71) Anthracene              | 17.54 | 178  | 70530    | 3.15   | ng    | 97       |
| 72) Carbazole               | 17.90 | 167  | 91779    | 4.37   | ng    | 99       |

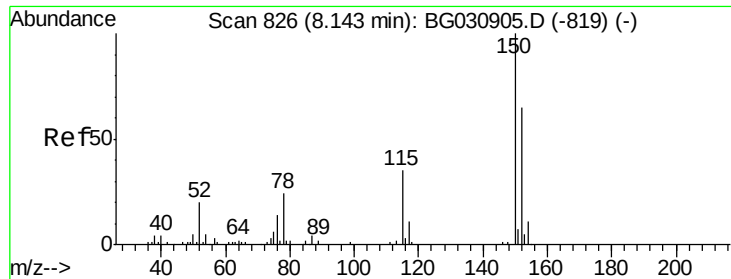
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG112217\  
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Misc :  
ALS Vial : 25 Sample Multiplier: 1

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BNA\_G  
ClientSampleId :

Quant Time: Nov 23 23:20:54 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



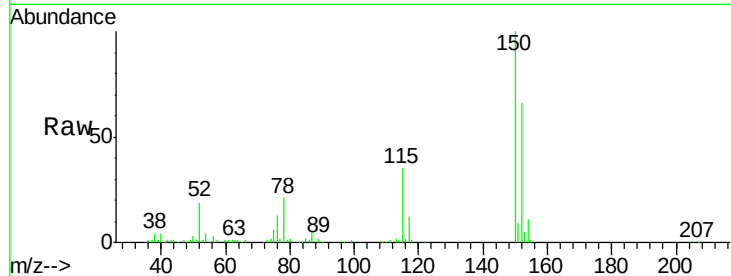


#1

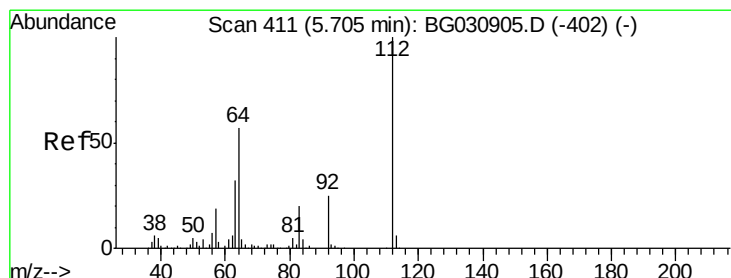
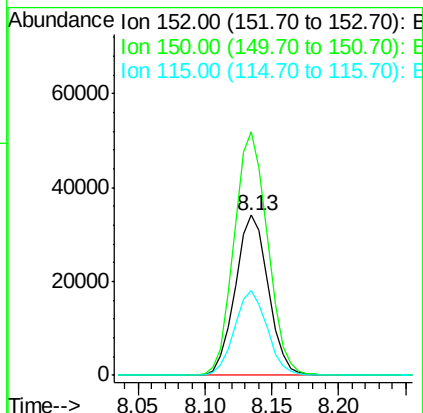
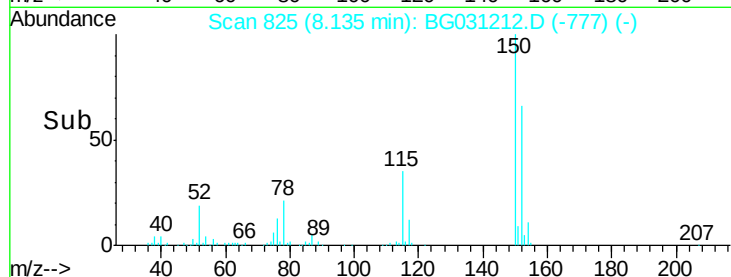
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.13 min Scan# 825  
Delta R.T. -0.02 min  
Lab File: BG031212.D  
Acq: 23 Nov 2017 6:21

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | 152   | Resp  | 58473 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 152     | 100   |       |       |
| 150     | 152.3 | 126.6 | 189.8 |
| 115     | 52.7  | 53.0  | 79.4# |



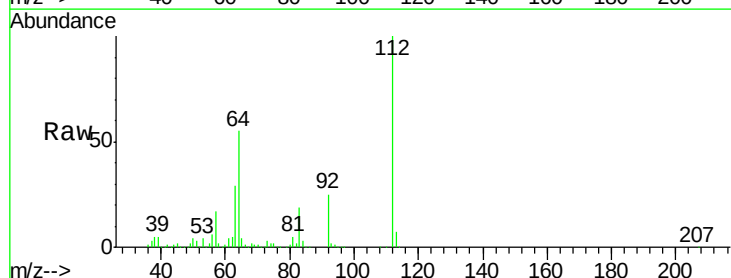
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



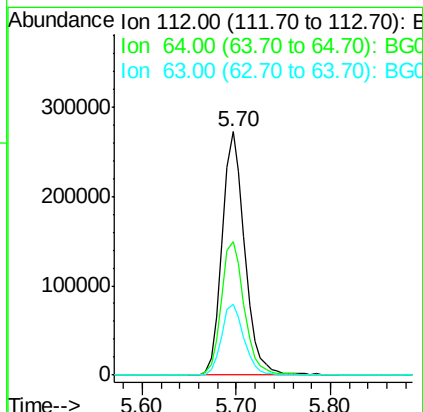
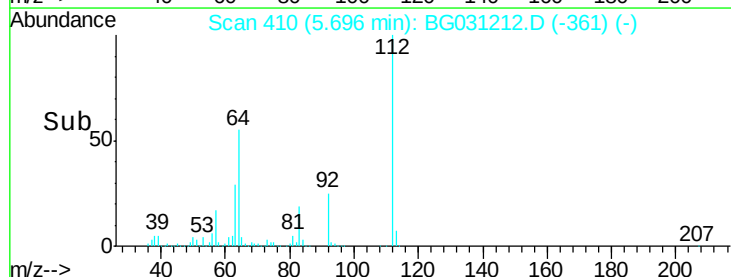
#5

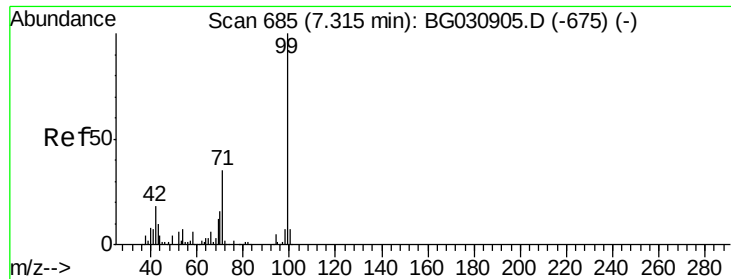
2-Fluorophenol  
Concen: 133.98 ng  
RT: 5.70 min Scan# 410  
Delta R.T. -0.01 min  
Lab File: BG031212.D  
Acq: 23 Nov 2017 6:21

| Tgt Ion | 112   | Resp  | 456856 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 112     | 100   |       |        |
| 64      | 54.9  | 56.3  | 84.5#  |
| 63      | 29.1  | 30.1  | 45.1#  |



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





#7

Phenol-d6

Concen: 114.11 ng

RT: 7.30 min Scan# 683

Delta R.T. -0.01 min

Lab File: BG031212.D

Acq: 23 Nov 2017 6:21

Instrument :

BNA\_G

ClientSampleId :

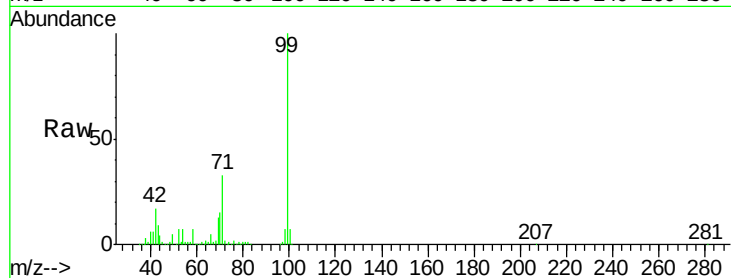
Tot Ion: 99 Resp: 524233

Ion Ratio Lower Upper

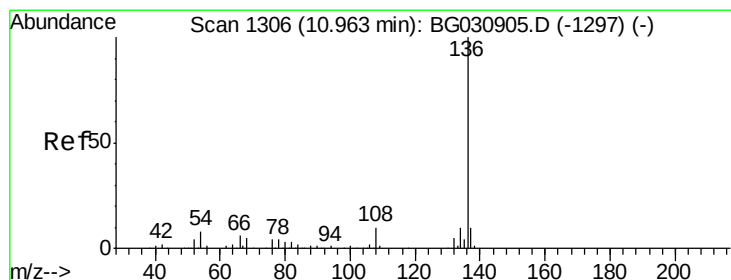
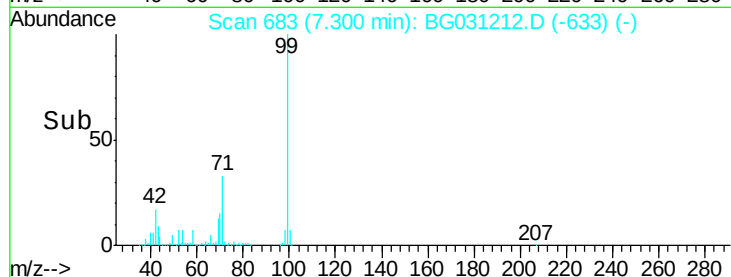
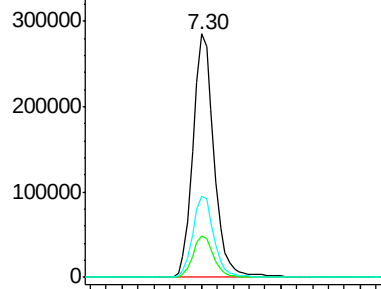
99 100

42 16.9 14.1 21.1

71 33.4 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: 20.00 ng

RT: 10.95 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BG031212.D

Acq: 23 Nov 2017 6:21

Tgt Ion: 136 Resp: 247440

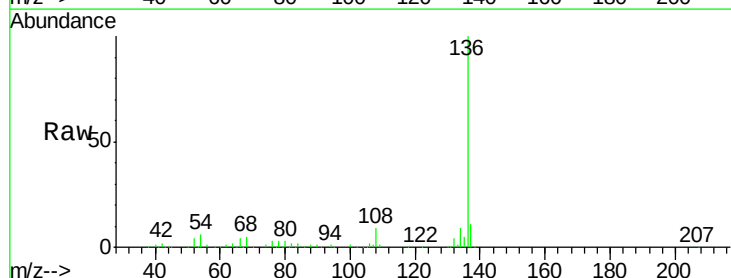
Ion Ratio Lower Upper

136 100

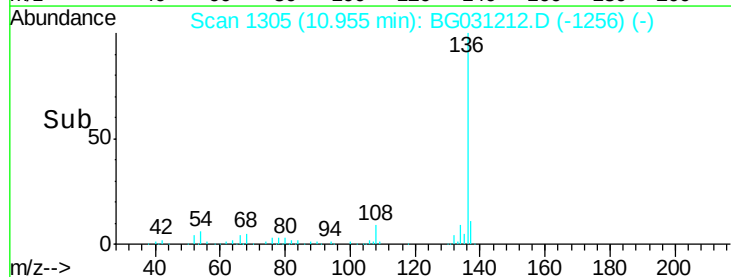
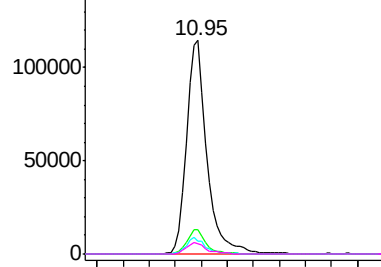
137 11.3 9.2 13.8

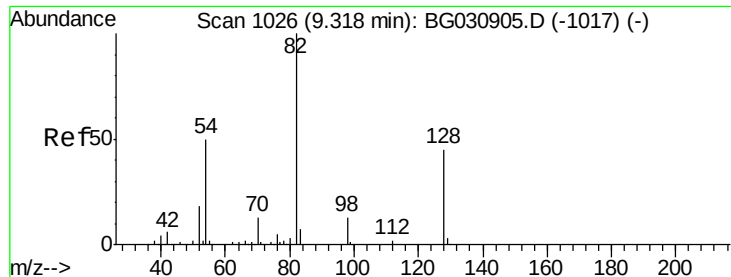
54 5.9 10.3 15.5#

68 4.7 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

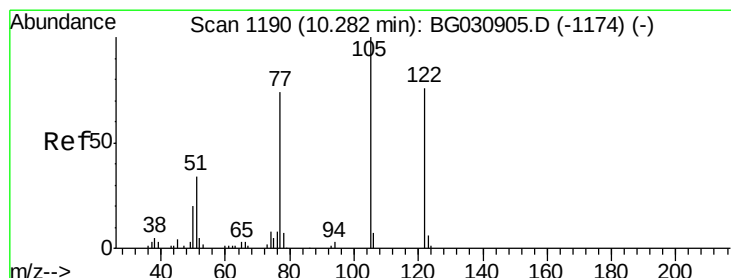
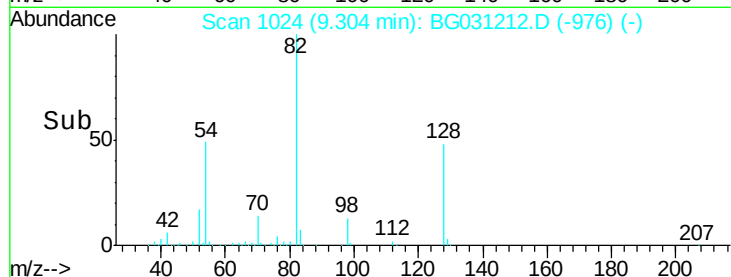
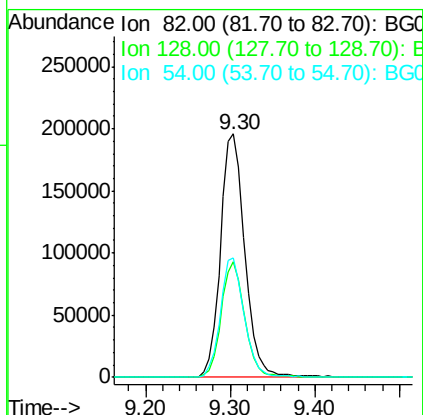
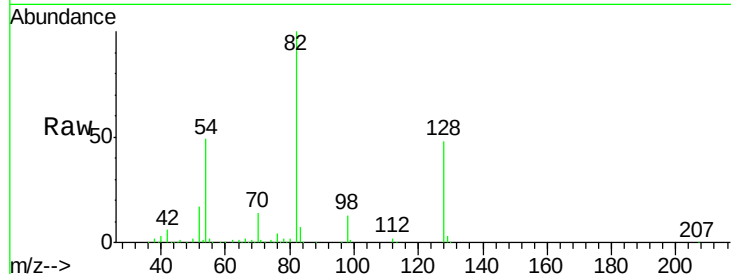




#23  
 Nitrobenzene-d5  
 Concen: 93.76 ng  
 RT: 9.30 min Scan# 1024  
 Delta R.T. -0.02 min  
 Lab File: BG031212.D  
 Acq: 23 Nov 2017 6:21

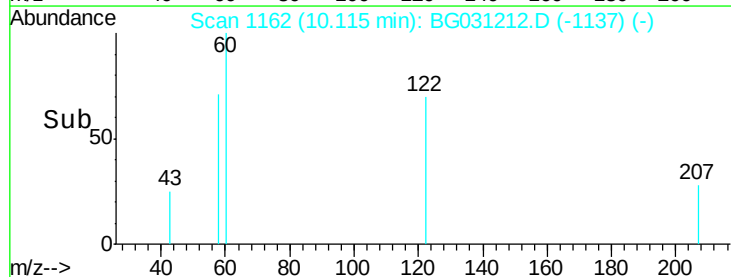
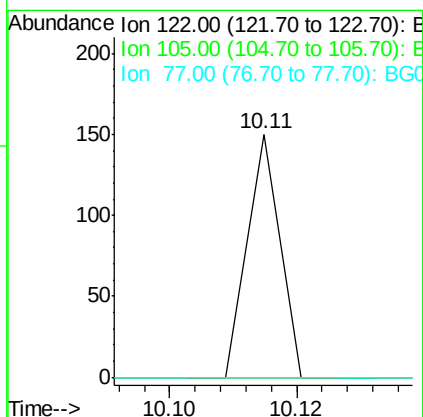
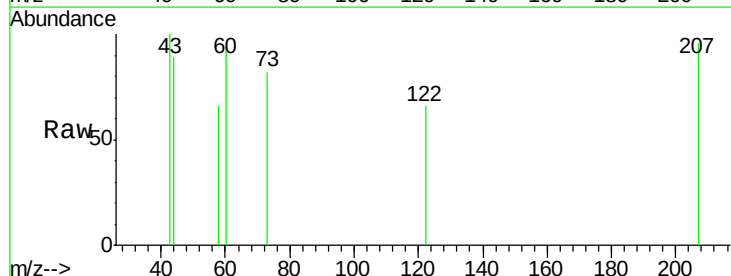
Instrument :  
 BNA\_G  
 ClientSampleId :

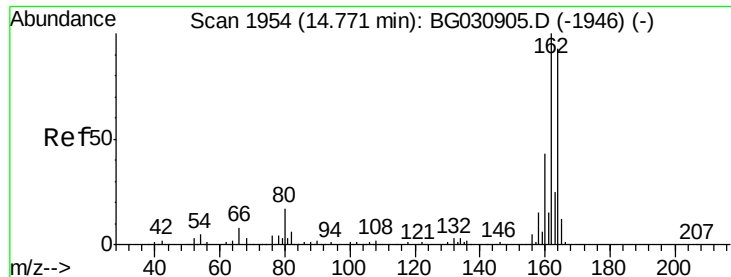
| Tot Ion   | 82   | Resp  | 391508 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 47.5 | 29.7  | 44.5#  |
| 54        | 49.0 | 43.1  | 64.7   |



#32  
 Benzoic acid  
 Concen: 5.68 ng  
 RT: 10.11 min Scan# 1162  
 Delta R.T. -0.15 min  
 Lab File: BG031212.D  
 Acq: 23 Nov 2017 6:21

| Tgt Ion                                              | 122 | Resp  | 53     |
|------------------------------------------------------|-----|-------|--------|
| Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td> | 100 | Lower | Upper  |
| 105                                                  | 0.0 | 123.5 | 163.5# |
| 77                                                   | 0.0 | 85.7  | 125.7# |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.76 min Scan# 1952

Delta R.T. -0.02 min

Lab File: BG031212.D

Acq: 23 Nov 2017 6:21

Instrument :

BNA\_G

ClientSampleId :

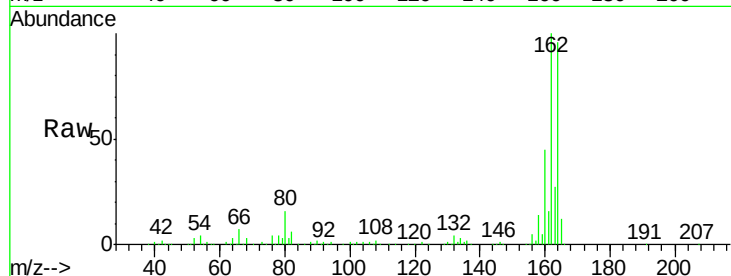
Tot Ion:164 Resp: 162007

Ion Ratio Lower Upper

164 100

162 103.9 78.8 118.2

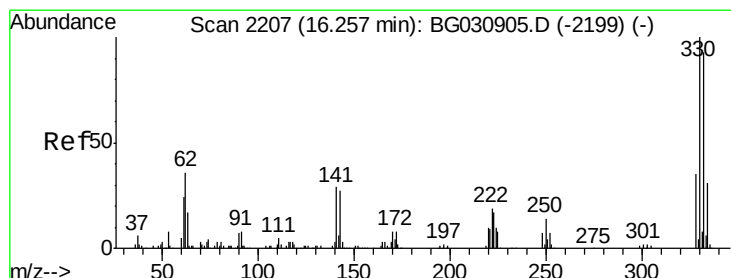
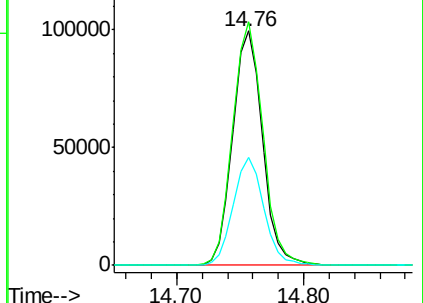
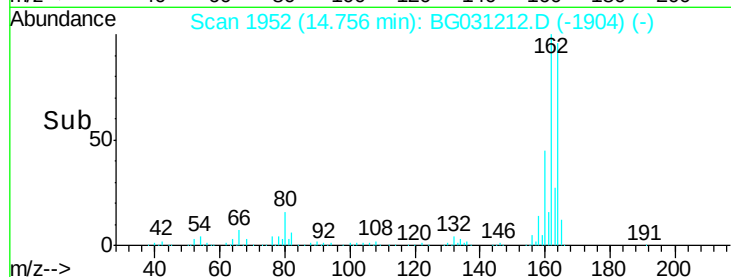
160 46.3 35.4 53.0



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: 125.54 ng

RT: 16.24 min Scan# 2205

Delta R.T. -0.01 min

Lab File: BG031212.D

Acq: 23 Nov 2017 6:21

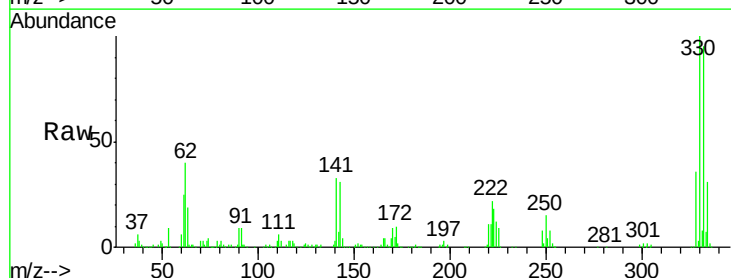
Tgt Ion:330 Resp: 329018

Ion Ratio Lower Upper

330 100

332 96.0 77.0 115.6

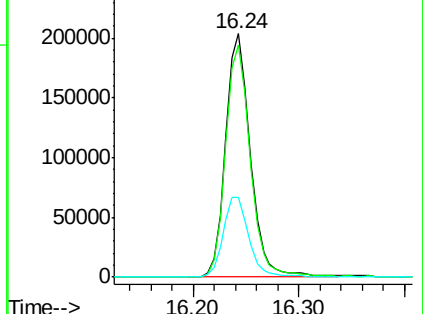
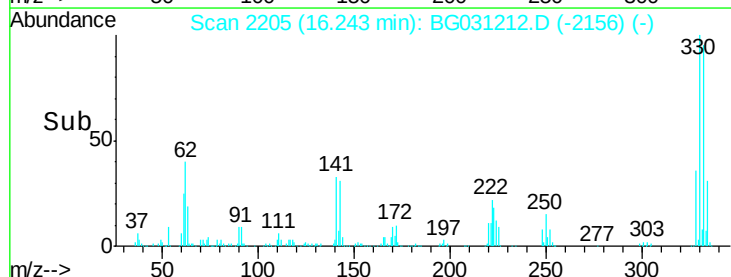
141 34.2 25.2 37.8

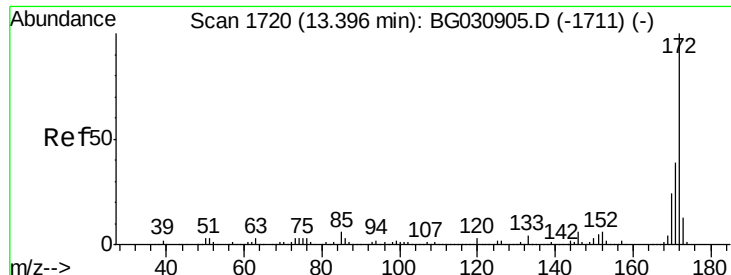


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

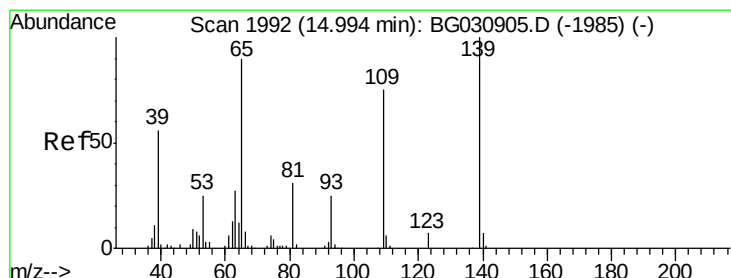
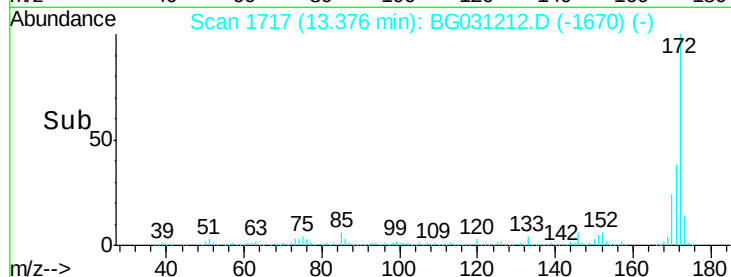
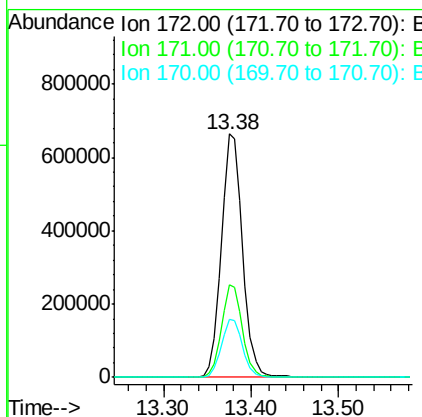
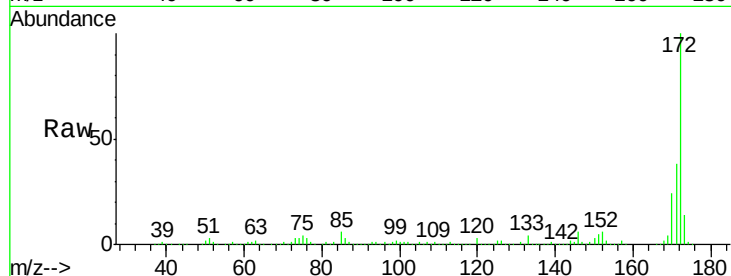




#44  
 2-Fluorobiphenyl  
 Concen: 98.76 ng  
 RT: 13.38 min Scan# 1717  
 Delta R.T. -0.02 min  
 Lab File: BG031212.D  
 Acq: 23 Nov 2017 6:21

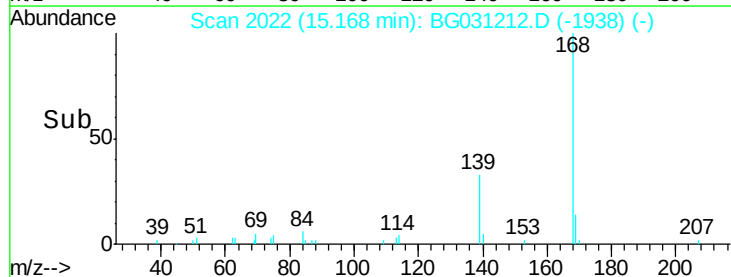
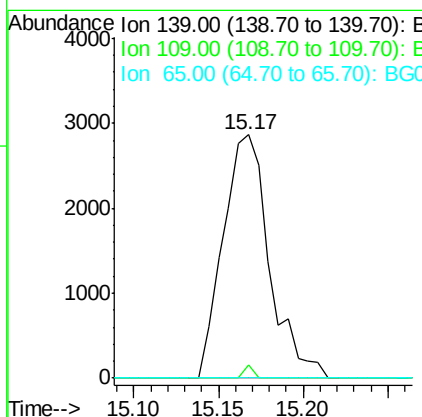
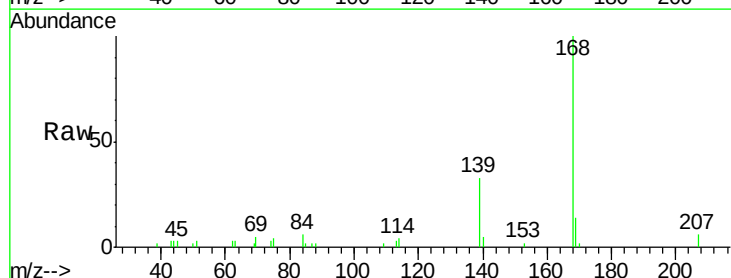
Instrument :  
 BNA\_G  
 ClientSampled :

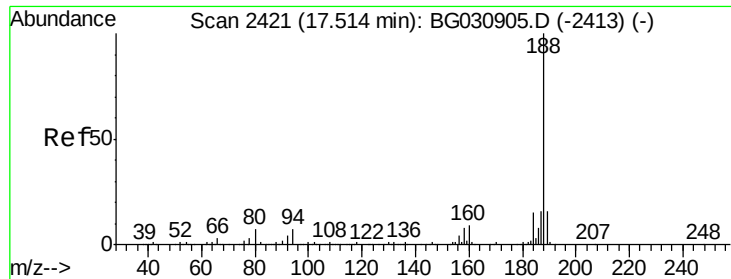
Tot Ion:172 Resp: 1113492  
 Ion Ratio Lower Upper  
 172 100  
 171 38.0 30.0 45.0  
 170 23.8 19.5 29.3



#55  
 4-Nitrophenol  
 Concen: 2.50 ng  
 RT: 15.17 min Scan# 2022  
 Delta R.T. 0.19 min  
 Lab File: BG031212.D  
 Acq: 23 Nov 2017 6:21

Tgt Ion:139 Resp: 5453  
 Ion Ratio Lower Upper  
 139 100  
 109 5.5 62.2 102.2#  
 65 0.0 97.2 137.2#

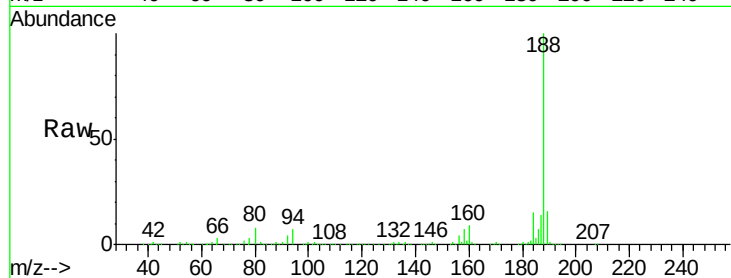




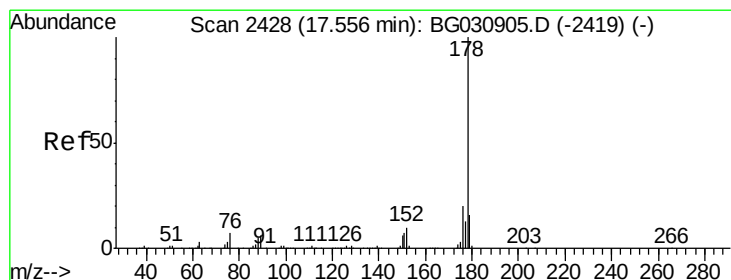
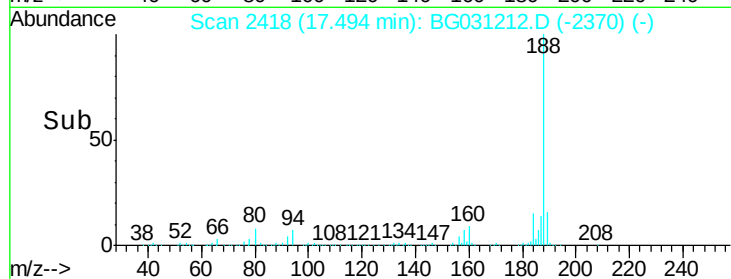
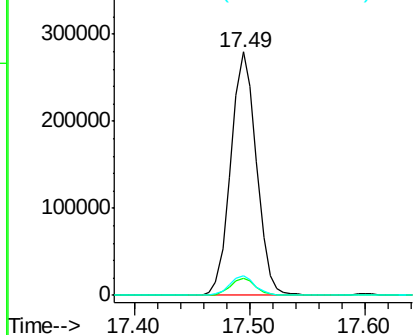
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.49 min Scan# 2418  
Delta R.T. -0.02 min  
Lab File: BG031212.D  
Acq: 23 Nov 2017 6:21

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:188 Resp: 429530  
Ion Ratio Lower Upper  
188 100  
94 7.1 6.9 10.3  
80 8.2 7.7 11.5

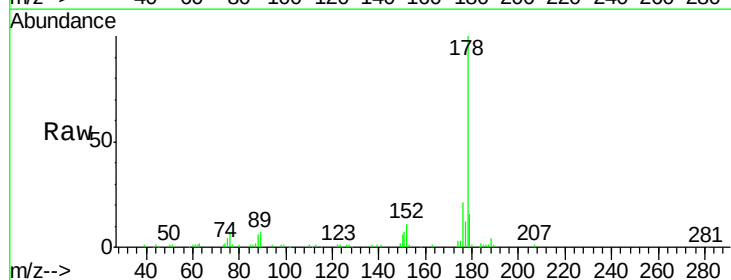


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BGC  
Ion 80.00 (79.70 to 80.70): BGC

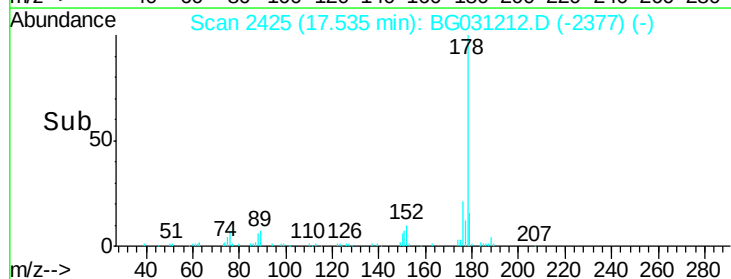
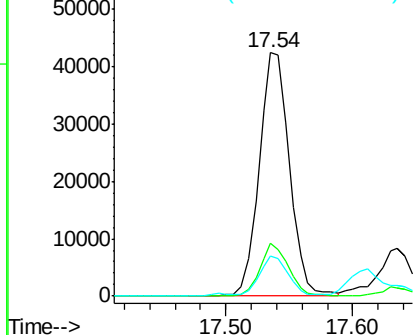


#70  
Phenanthrene  
Concen: 3.15 ng  
RT: 17.54 min Scan# 2425  
Delta R.T. -0.02 min  
Lab File: BG031212.D  
Acq: 23 Nov 2017 6:21

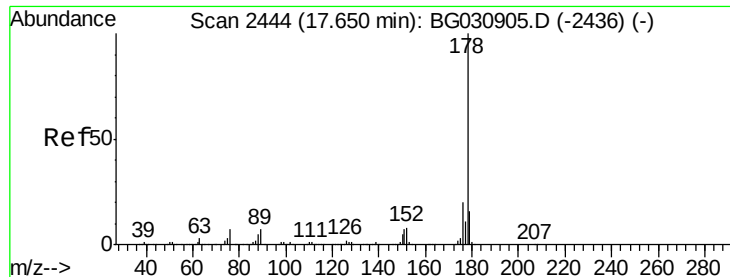
Tgt Ion:178 Resp: 70530  
Ion Ratio Lower Upper  
178 100  
176 21.5 15.7 23.5  
179 16.3 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E



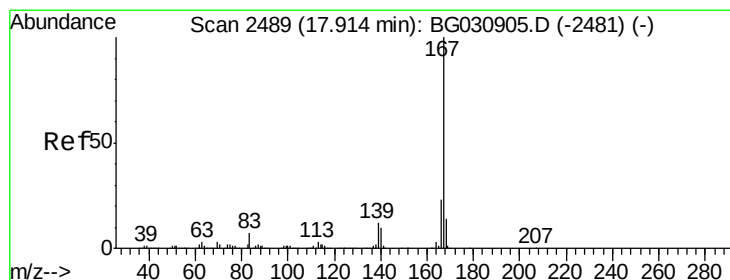
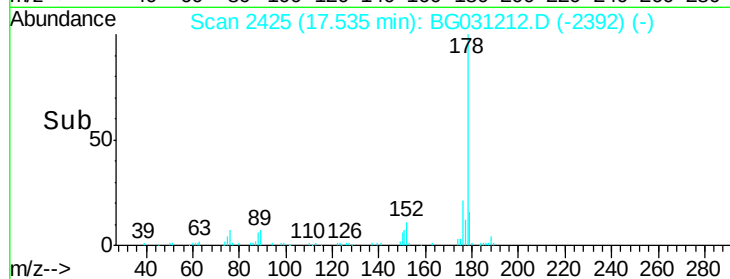
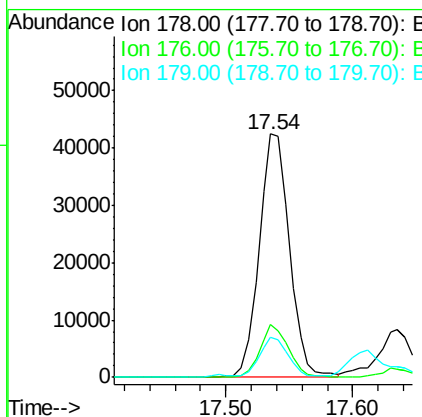
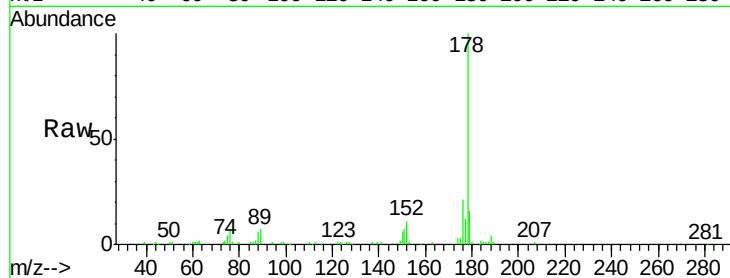




#71  
 Anthracene  
 Concen: 3.15 ng  
 RT: 17.54 min Scan# 2425  
 Delta R.T. -0.11 min  
 Lab File: BG031212.D  
 Acq: 23 Nov 2017 6:21

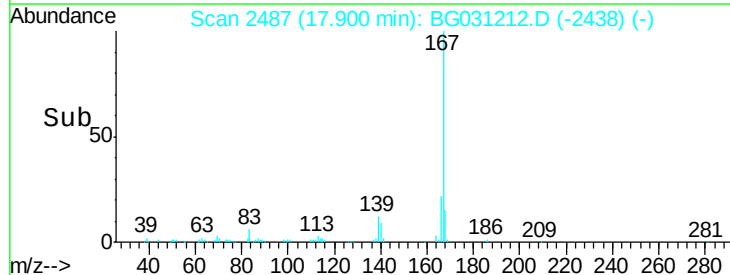
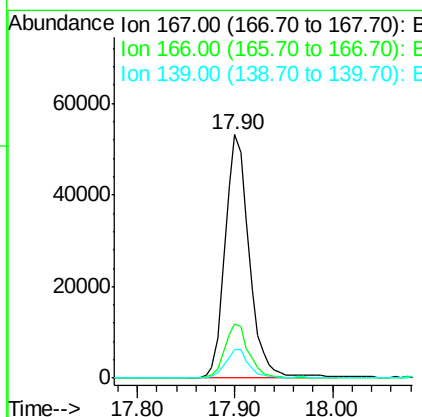
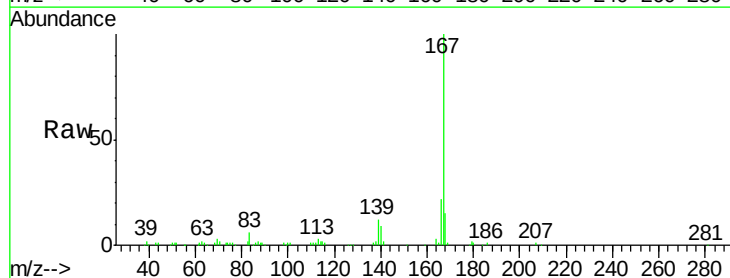
Instrument :  
 BNA\_G  
 ClientSampleId :

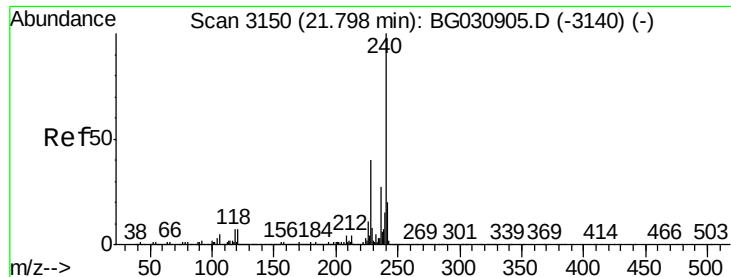
Tot Ion:178 Resp: 70530  
 Ion Ratio Lower Upper  
 178 100  
 176 21.5 16.0 24.0  
 179 16.3 12.5 18.7



#72  
 Carbazole  
 Concen: 4.37 ng  
 RT: 17.90 min Scan# 2487  
 Delta R.T. -0.01 min  
 Lab File: BG031212.D  
 Acq: 23 Nov 2017 6:21

Tgt Ion:167 Resp: 91779  
 Ion Ratio Lower Upper  
 167 100  
 166 22.2 18.2 27.4  
 139 11.6 9.4 14.2





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.77 min Scan# 3145

Delta R.T. -0.02 min

Lab File: BG031212.D

Acq: 23 Nov 2017 6:21

Instrument :

BNA\_G

ClientSampleId :

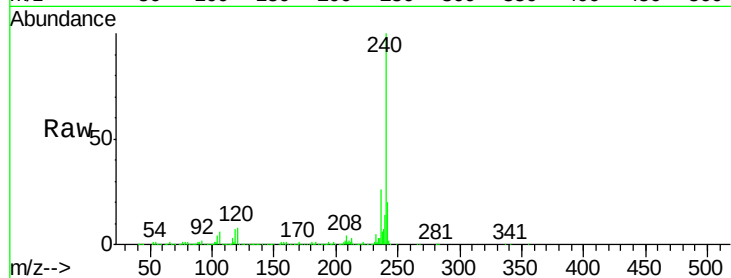
Tot Ion:240 Resp: 542626

Ion Ratio Lower Upper

240 100

120 8.0 6.8 10.2

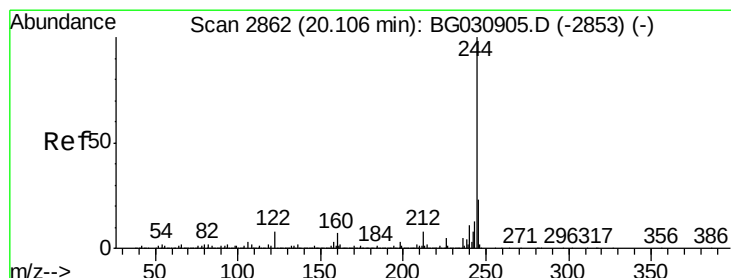
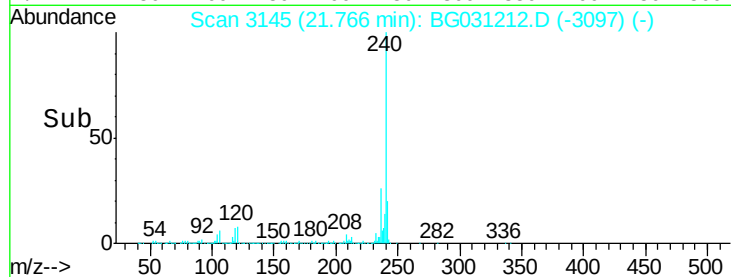
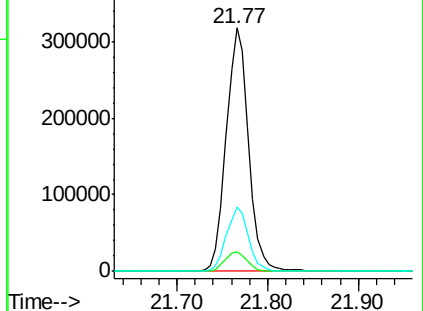
236 26.2 20.9 31.3



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



#78

Terphenyl-d14

Concen: 87.56 ng

RT: 20.09 min Scan# 2859

Delta R.T. -0.01 min

Lab File: BG031212.D

Acq: 23 Nov 2017 6:21

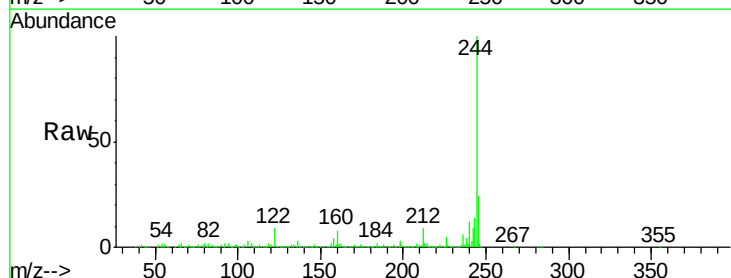
Tgt Ion:244 Resp: 2151677

Ion Ratio Lower Upper

244 100

212 8.8 5.8 8.8#

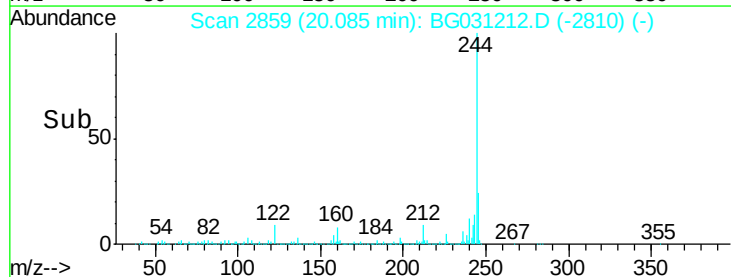
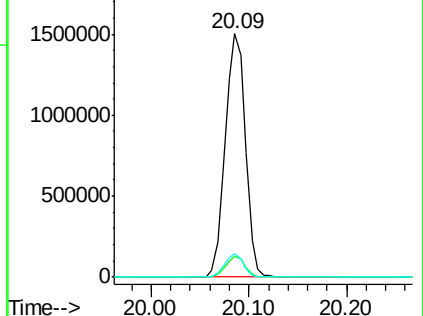
122 9.4 7.0 10.4

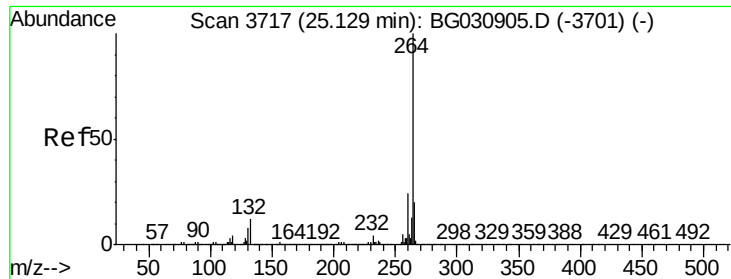


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 25.07 min Scan# 3708  
Delta R.T. -0.02 min  
Lab File: BG031212.D  
Acq: 23 Nov 2017 6:21

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion: 264 Resp: 528422  
Ion Ratio Lower Upper  
264 100  
260 23.4 17.4 26.0  
265 20.7 17.7 26.5

