

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG102717\  
 Data File : BG030501.D  
 Acq On : 27 Oct 2017 17:24  
 Operator : SJ/JU  
 Sample : I6112-08  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 2-MARION26KV-(2-3)

Quant Time: Oct 27 18:16:02 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG101617.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 16 17:32:15 2017  
 Response via : Initial Calibration

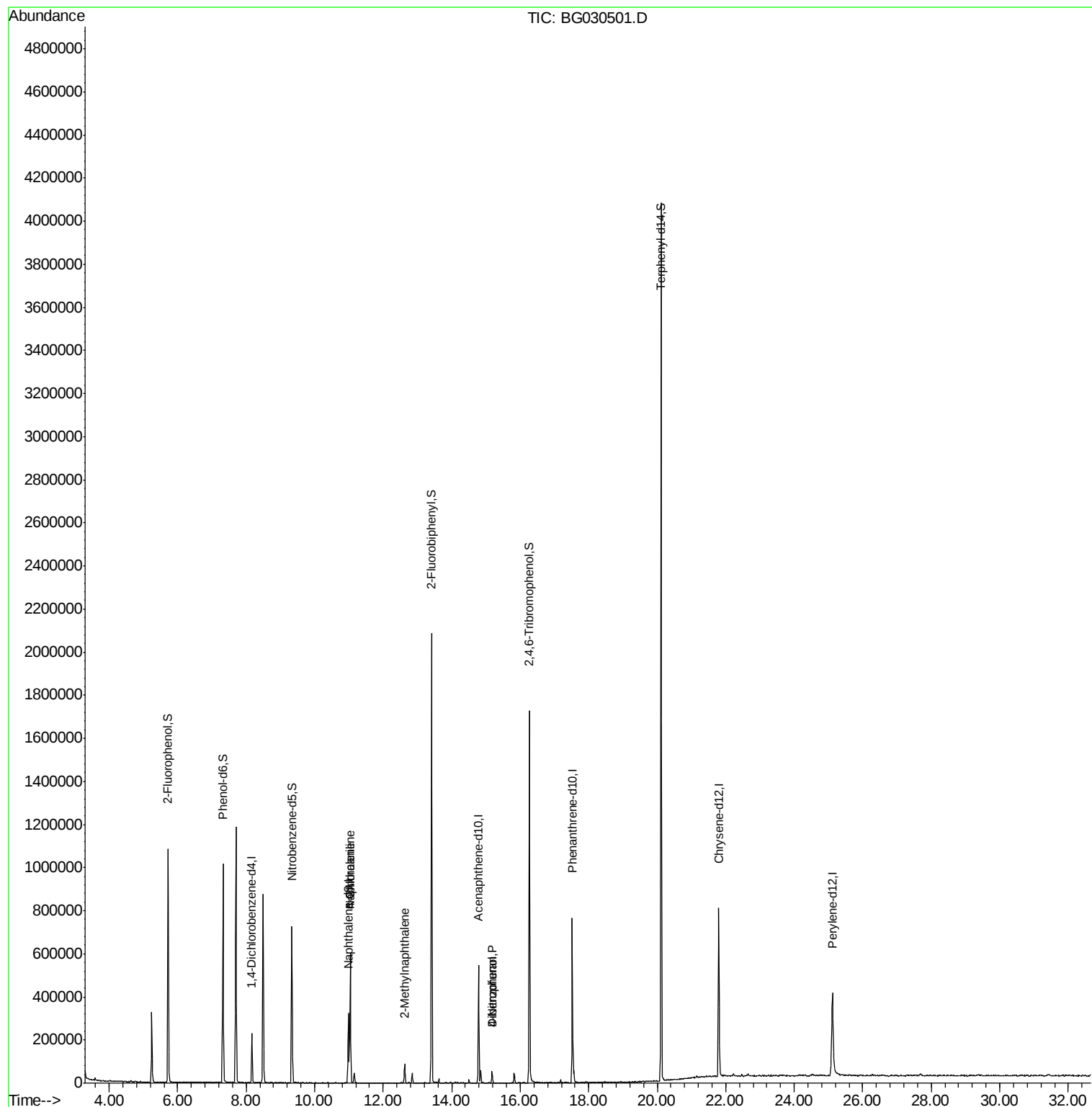
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.17  | 152  | 63864    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.98 | 136  | 297137   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.78 | 164  | 195173   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.52 | 188  | 467626   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 21.79 | 240  | 502097   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 25.11 | 264  | 490368   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.72  | 112  | 493913   | 129.20 | ng    | 0.00     |
| 7) Phenol-d6                | 7.32  | 99   | 601078   | 112.01 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.33  | 82   | 444334   | 95.03  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.26 | 330  | 358631   | 142.32 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.41 | 172  | 1152115  | 86.58  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.11 | 244  | 1859696  | 84.26  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 31) Naphthalene             | 11.04 | 128  | 526050   | 35.523 | ng    | 98       |
| 33) 4-Chloroaniline         | 11.04 | 127  | 70617    | 11.336 | ng    | # 30     |
| 37) 2-Methylnaphthalene     | 12.63 | 142  | 45152    | 4.183  | ng    | 94       |
| 54) Dibenzofuran            | 15.18 | 168  | 37298    | 2.097  | ng    | 98       |
| 55) 4-Nitrophenol           | 15.18 | 139  | 12461    | 4.388  | ng    | # 2      |

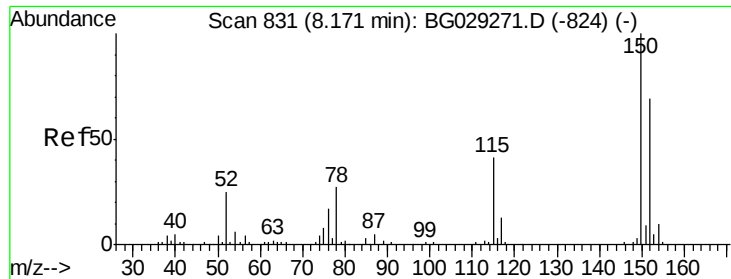
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG102717\  
Data File : BG030501.D  
Acq On : 27 Oct 2017 17:24  
Operator : SJ/JU  
Sample : I6112-08  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
2-MARION26KV-(2-3)

Quant Time: Oct 27 18:16:02 2017  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG101617.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 16 17:32:15 2017  
Response via : Initial Calibration



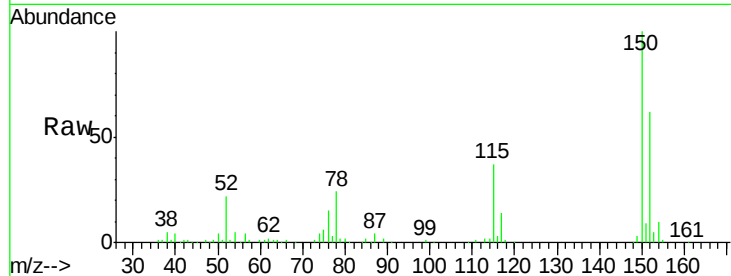


#1

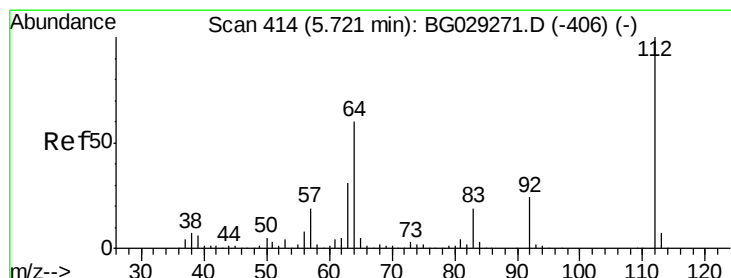
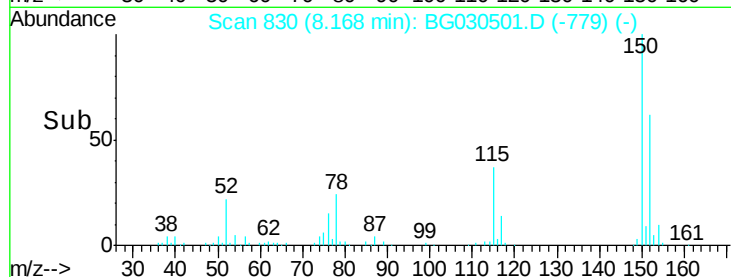
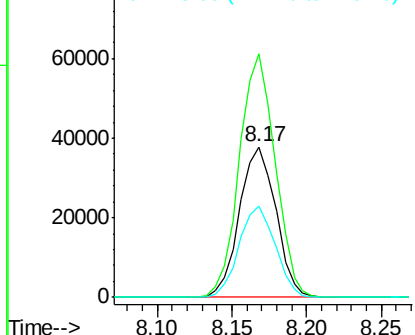
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.17 min Scan# 830  
Delta R.T. -0.00 min  
Lab File: BG030501.D  
Acq: 27 Oct 2017 17:24

Instrument :  
BNA\_G  
ClientSampleId :  
2-MARION26KV-(2-3)

Tgt Ion:152 Resp: 63864  
Ion Ratio Lower Upper  
152 100  
150 161.8 126.6 189.8  
115 60.4 53.0 79.4



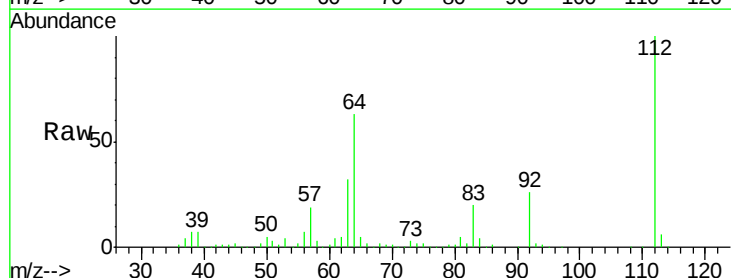
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



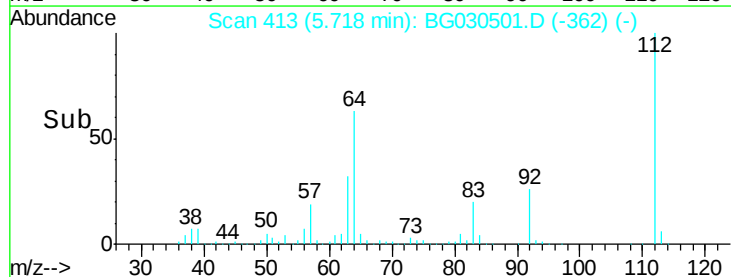
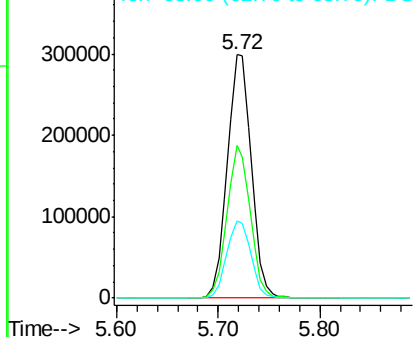
#5

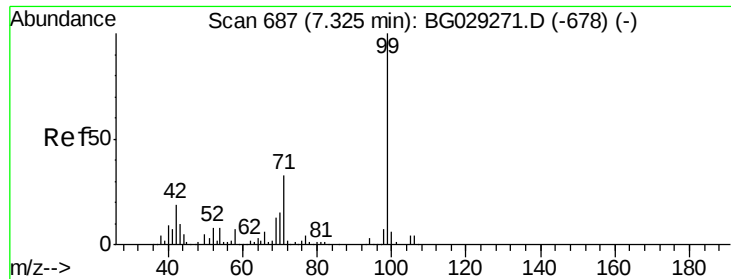
2-Fluorophenol  
Concen: 129.198 ng  
RT: 5.72 min Scan# 413  
Delta R.T. -0.00 min  
Lab File: BG030501.D  
Acq: 27 Oct 2017 17:24

Tgt Ion:112 Resp: 493913  
Ion Ratio Lower Upper  
112 100  
64 62.6 56.3 84.5  
63 31.6 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: 112.014 ng

RT: 7.32 min Scan# 686

Delta R.T. -0.00 min

Lab File: BG030501.D

Acq: 27 Oct 2017 17:24

Instrument :

BNA\_G

ClientSampleId :

2-MARION26KV-(2-3)

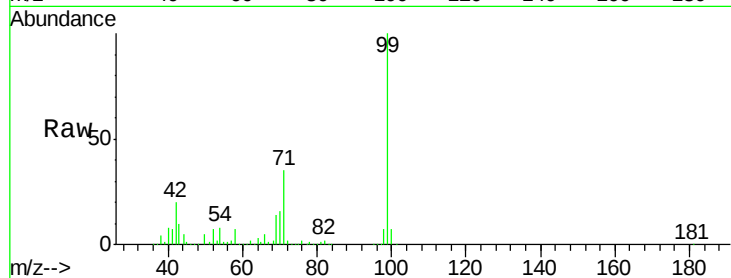
Tgt Ion: 99 Resp: 601078

Ion Ratio Lower Upper

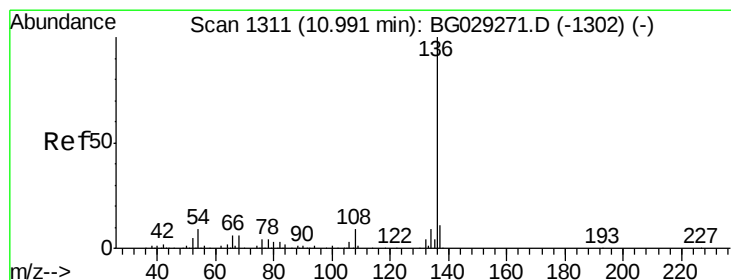
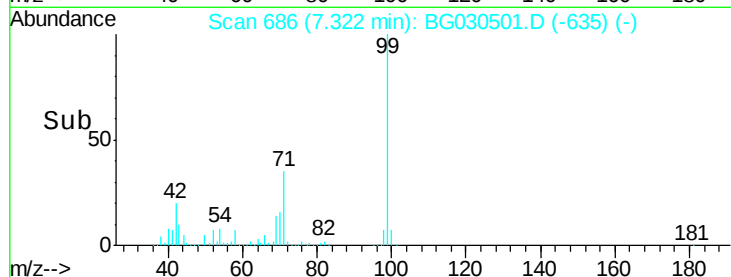
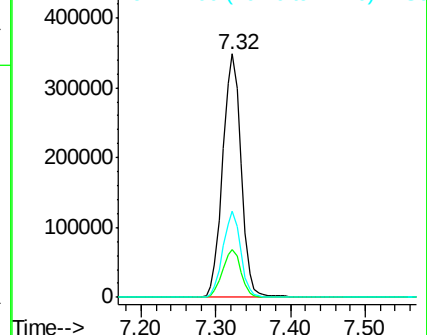
99 100

42 19.7 14.1 21.1

71 35.4 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: 20.000 ng

RT: 10.98 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BG030501.D

Acq: 27 Oct 2017 17:24

Tgt Ion: 136 Resp: 297137

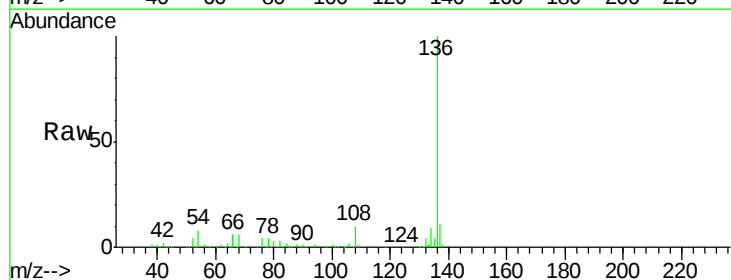
Ion Ratio Lower Upper

136 100

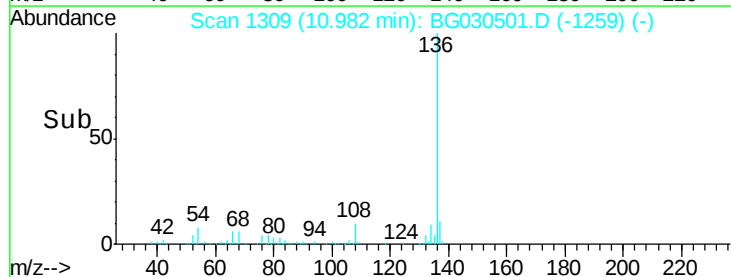
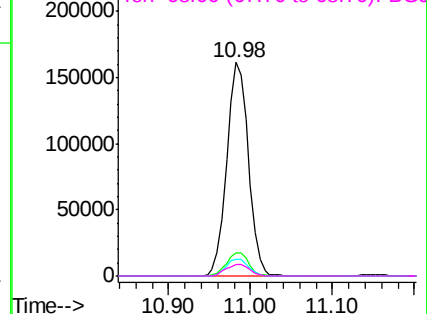
137 11.0 9.2 13.8

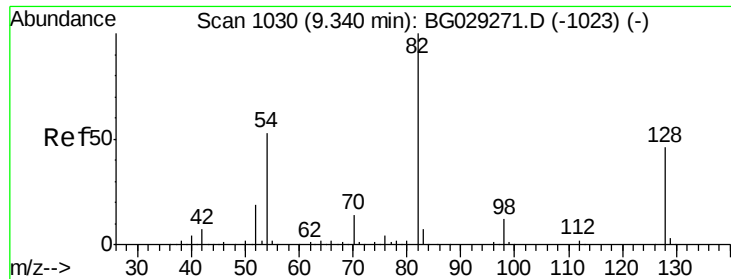
54 7.9 10.3 15.5#

68 5.6 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

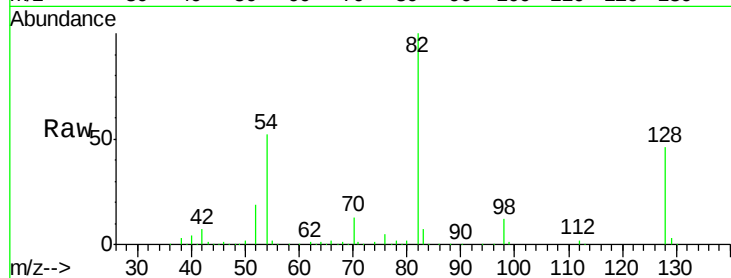




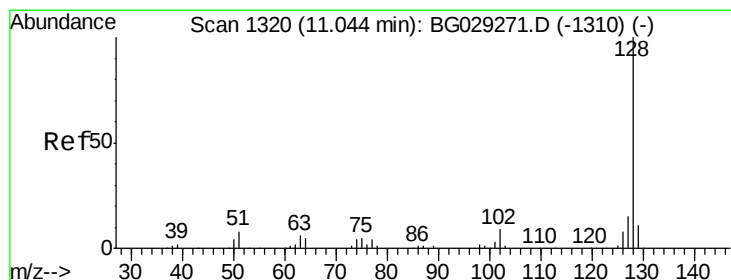
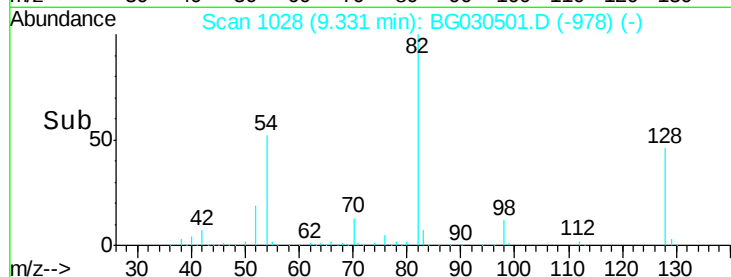
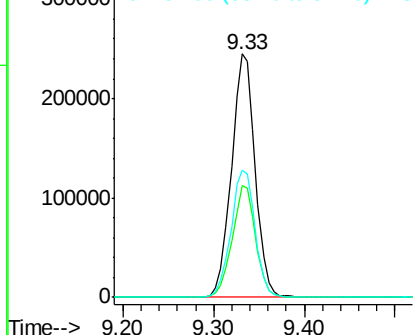
#23  
Nitrobenzene-d5  
Concen: 95.028 ng  
RT: 9.33 min Scan# 1028  
Delta R.T. -0.01 min  
Lab File: BG030501.D  
Acq: 27 Oct 2017 17:24

Instrument :  
BNA\_G  
ClientSampleId :  
2-MARION26KV-(2-3)

Tgt Ion: 82 Resp: 444334  
Ion Ratio Lower Upper  
82 100  
128 46.0 29.7 44.5#  
54 52.3 43.1 64.7

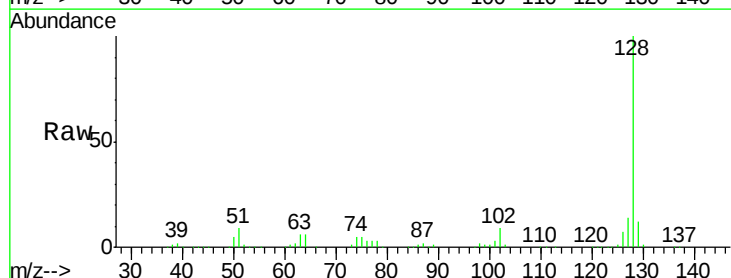


Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

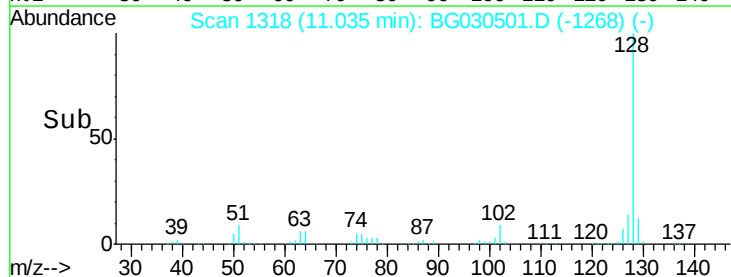
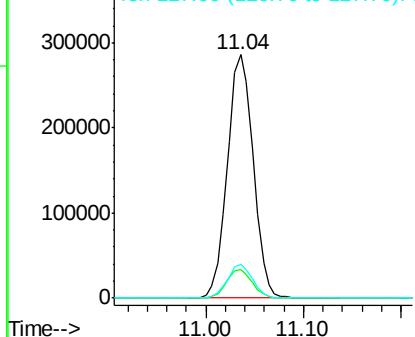


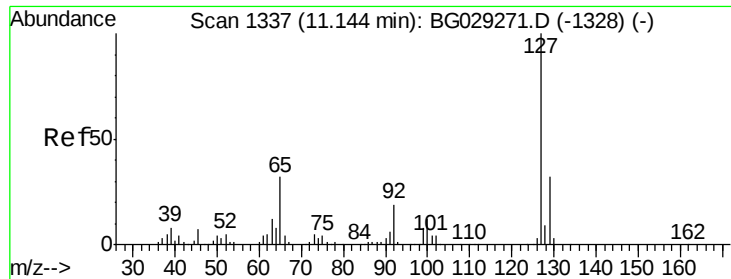
#31  
Naphthalene  
Concen: 35.523 ng  
RT: 11.04 min Scan# 1318  
Delta R.T. -0.01 min  
Lab File: BG030501.D  
Acq: 27 Oct 2017 17:24

Tgt Ion: 128 Resp: 526050  
Ion Ratio Lower Upper  
128 100  
129 11.6 8.6 12.8  
127 13.7 11.6 17.4



Abundance Ion 128.00 (127.70 to 128.70): BGC  
Ion 129.00 (128.70 to 129.70): BGC  
Ion 127.00 (126.70 to 127.70): BGC

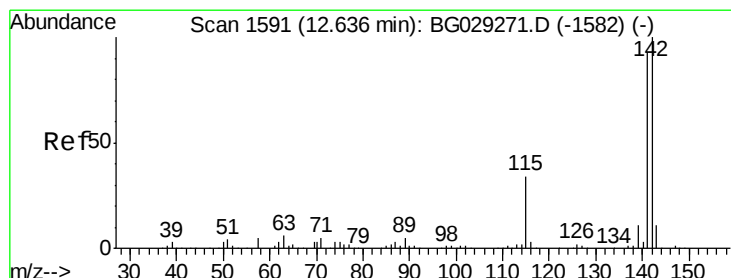
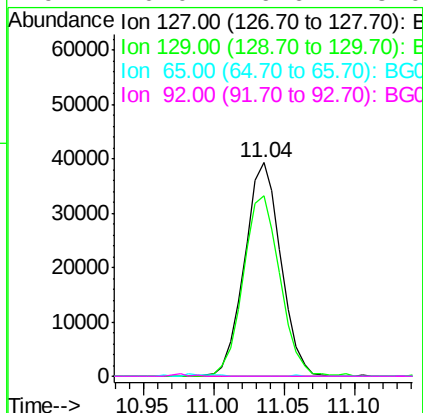
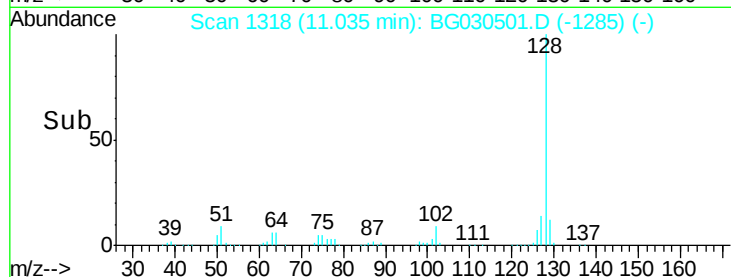
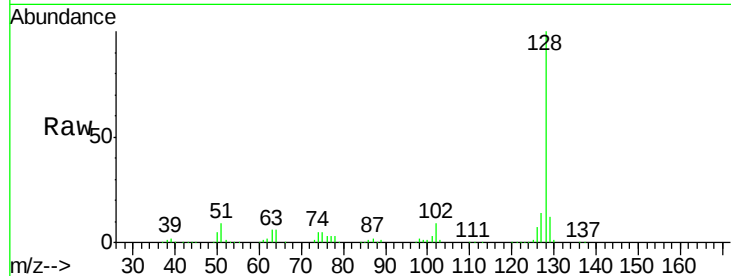




#33  
4-Chloroaniline  
Concen: 11.336 ng  
RT: 11.04 min Scan# 1318  
Delta R.T. -0.11 min  
Lab File: BG030501.D  
Acq: 27 Oct 2017 17:24

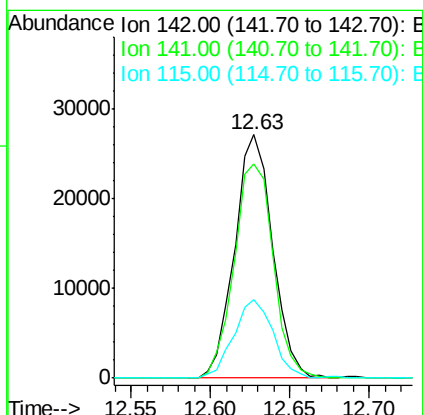
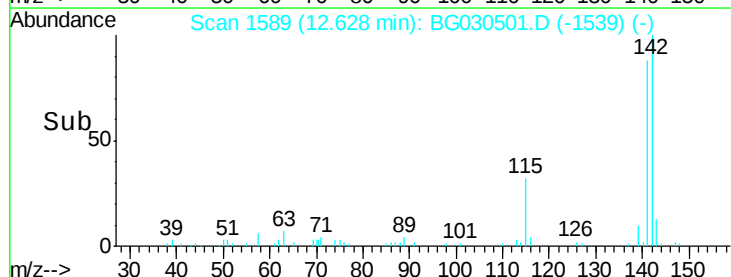
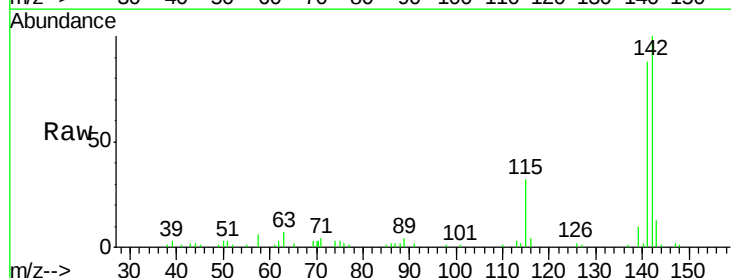
Instrument :  
BNA\_G  
ClientSampleId :  
2-MARION26KV-(2-3)

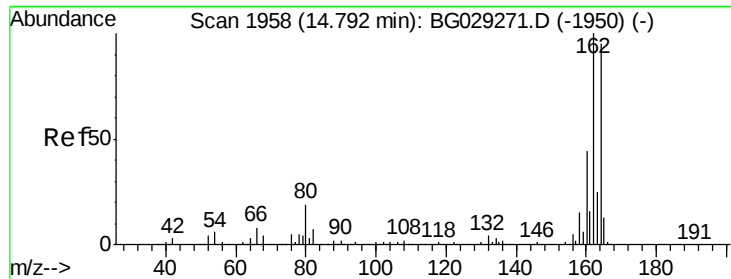
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 127   | Resp: | 70617 |
| Ion      | Ratio | Lower | Upper |
| 127      | 100   |       |       |
| 129      | 84.2  | 24.0  | 36.0# |
| 65       | 0.0   | 27.0  | 40.4# |
| 92       | 0.0   | 16.6  | 25.0# |



#37  
2-Methylnaphthalene  
Concen: 4.183 ng  
RT: 12.63 min Scan# 1589  
Delta R.T. -0.01 min  
Lab File: BG030501.D  
Acq: 27 Oct 2017 17:24

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 45152 |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 87.7  | 67.1  | 100.7 |
| 115      | 32.3  | 30.7  | 46.1  |





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.78 min Scan# 1956

Delta R.T. -0.01 min

Lab File: BG030501.D

Acq: 27 Oct 2017 17:24

Instrument :

BNA\_G

ClientSampleId :

2-MARION26KV-(2-3)

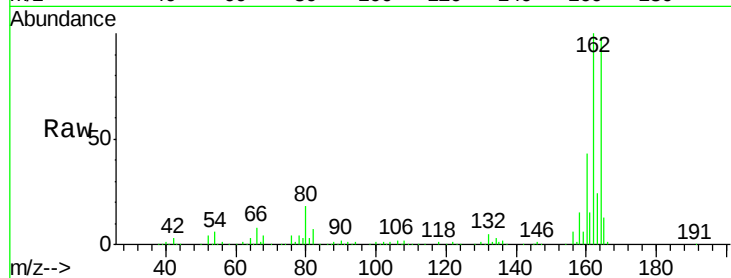
Tgt Ion:164 Resp: 195173

Ion Ratio Lower Upper

164 100

162 101.8 78.8 118.2

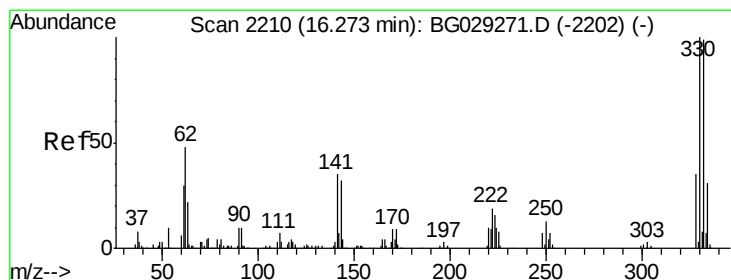
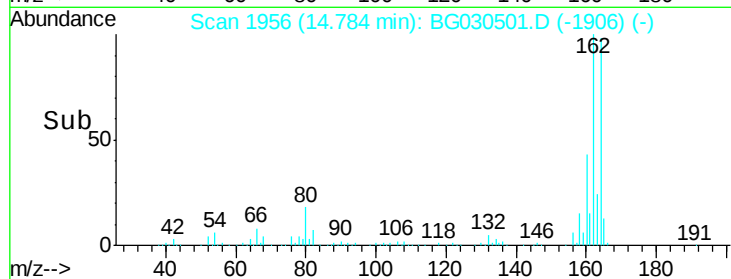
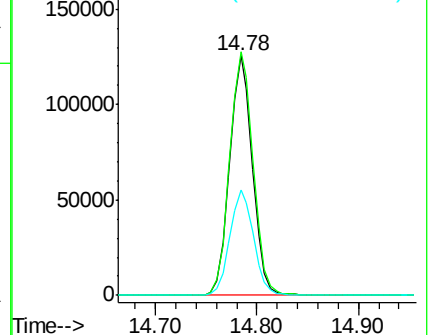
160 43.9 35.4 53.0



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: 142.320 ng

RT: 16.26 min Scan# 2208

Delta R.T. -0.01 min

Lab File: BG030501.D

Acq: 27 Oct 2017 17:24

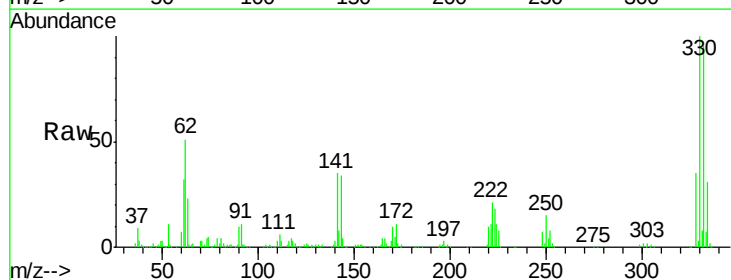
Tgt Ion:330 Resp: 358631

Ion Ratio Lower Upper

330 100

332 96.9 77.0 115.6

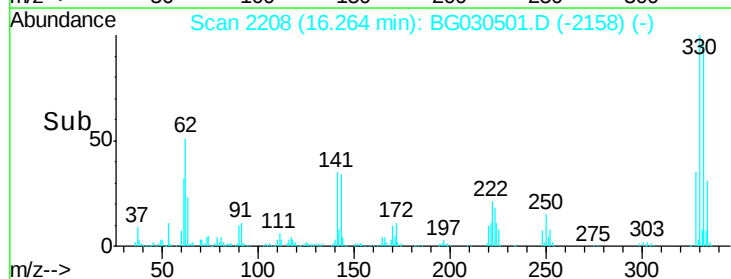
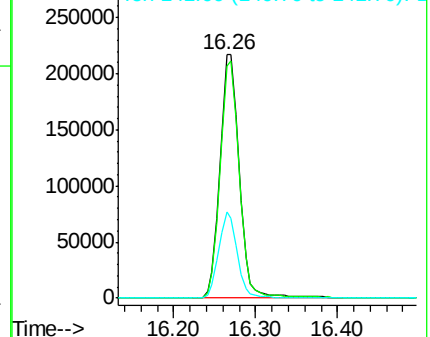
141 33.8 25.2 37.8

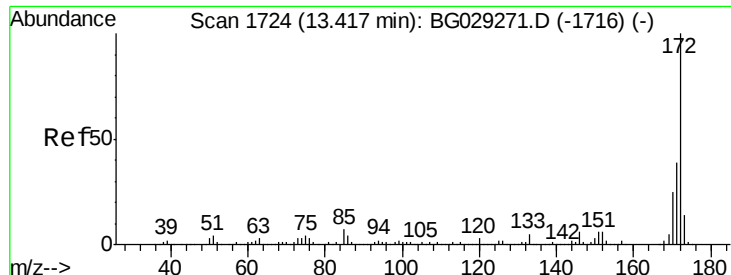


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

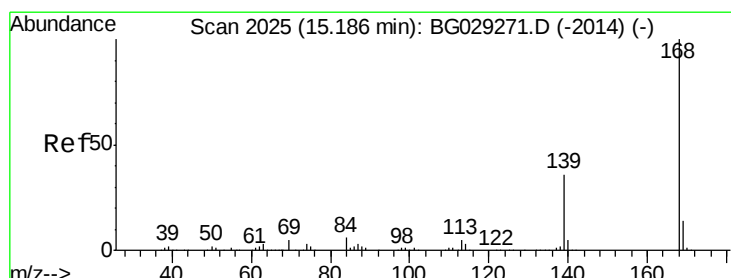
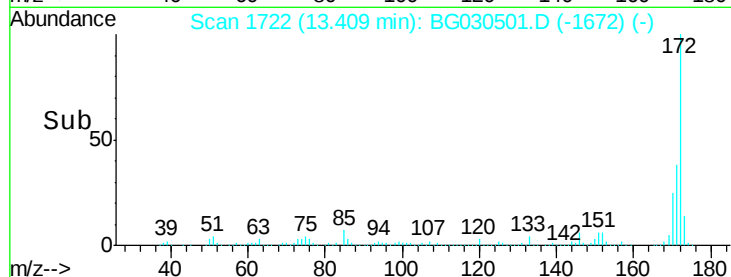
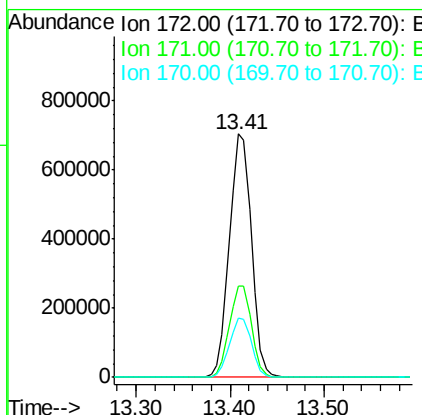
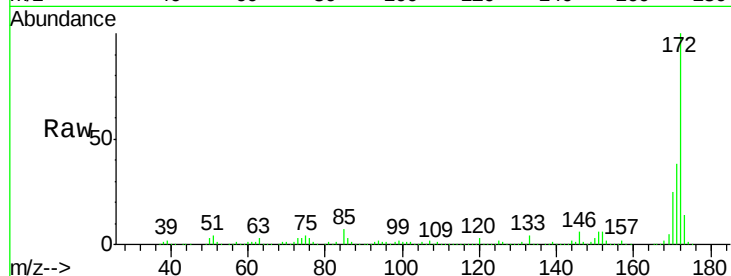




#44  
 2-Fluorobiphenyl  
 Concen: 86.577 ng  
 RT: 13.41 min Scan# 1722  
 Delta R.T. -0.01 min  
 Lab File: BG030501.D  
 Acq: 27 Oct 2017 17:24

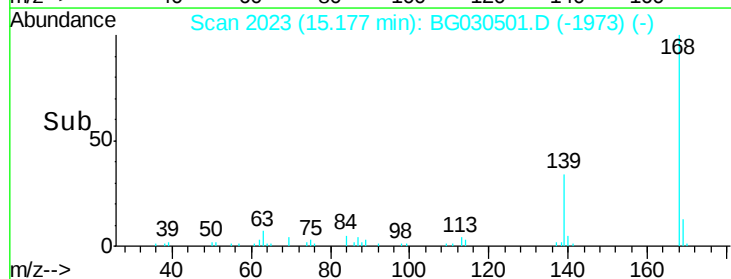
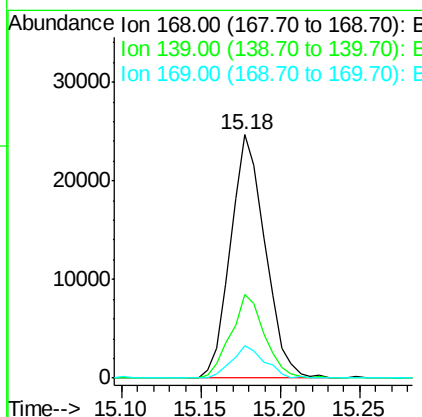
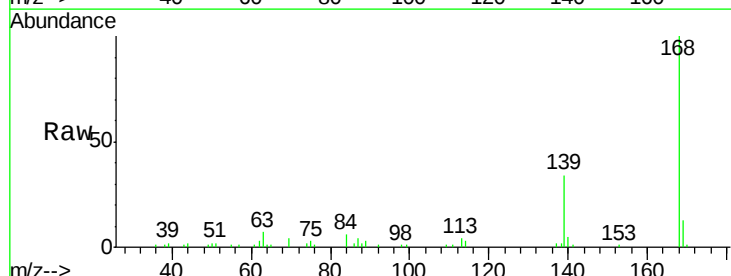
Instrument :  
 BNA\_G  
 ClientSampleId :  
 2-MARION26KV-(2-3)

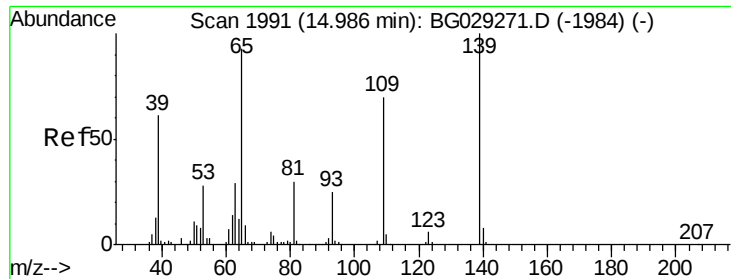
Tgt Ion:172 Resp: 1152115  
 Ion Ratio Lower Upper  
 172 100  
 171 37.6 30.0 45.0  
 170 24.6 19.5 29.3



#54  
 Dibenzofuran  
 Concen: 2.097 ng  
 RT: 15.18 min Scan# 2023  
 Delta R.T. -0.01 min  
 Lab File: BG030501.D  
 Acq: 27 Oct 2017 17:24

Tgt Ion:168 Resp: 37298  
 Ion Ratio Lower Upper  
 168 100  
 139 34.3 28.6 43.0  
 169 13.3 11.2 16.8

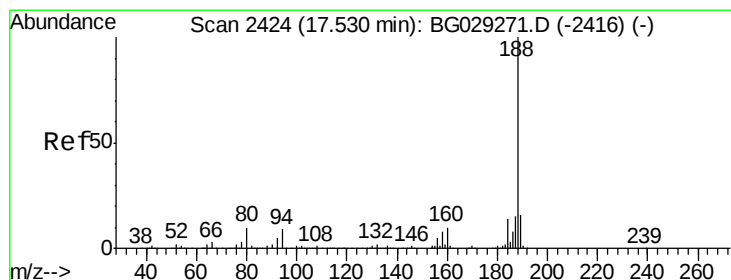
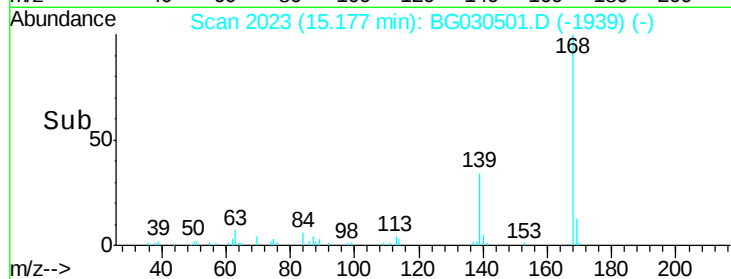
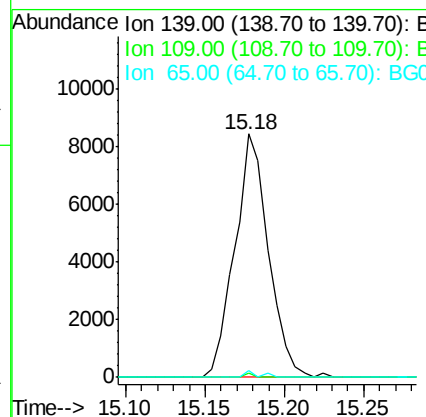
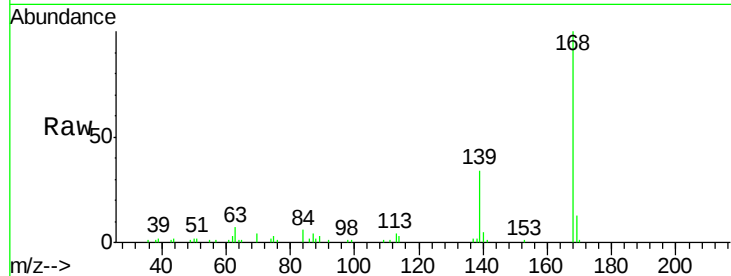




#55  
4-Nitrophenol  
Concen: 4.388 ng  
RT: 15.18 min Scan# 2023  
Delta R.T. 0.19 min  
Lab File: BG030501.D  
Acq: 27 Oct 2017 17:24

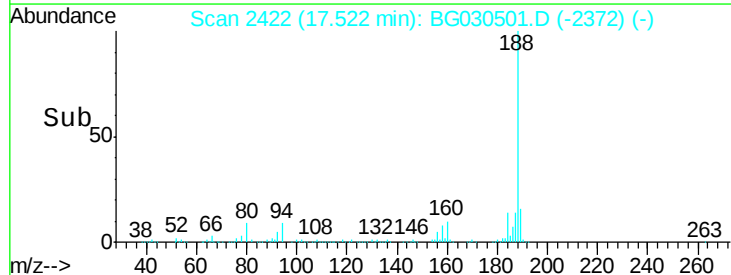
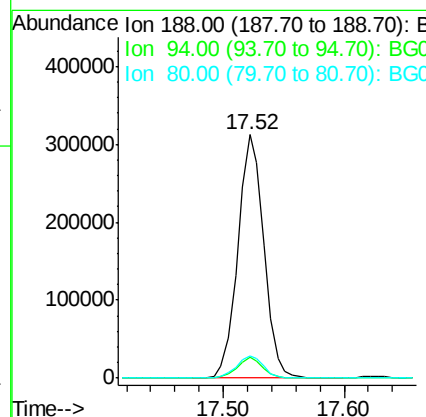
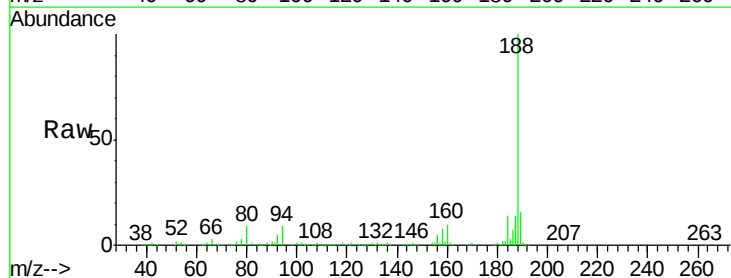
Instrument :  
BNA\_G  
ClientSampleId :  
2-MARION26KV-(2-3)

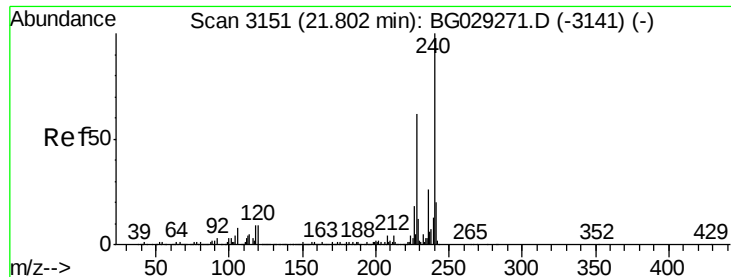
Tgt Ion:139 Resp: 12461  
Ion Ratio Lower Upper  
139 100  
109 1.9 62.2 102.2#  
65 2.7 97.2 137.2#



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.52 min Scan# 2422  
Delta R.T. -0.01 min  
Lab File: BG030501.D  
Acq: 27 Oct 2017 17:24

Tgt Ion:188 Resp: 467626  
Ion Ratio Lower Upper  
188 100  
94 8.5 6.9 10.3  
80 9.2 7.7 11.5





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.79 min Scan# 3149

Delta R.T. -0.01 min

Lab File: BG030501.D

Acq: 27 Oct 2017 17:24

Instrument :

BNA\_G

ClientSampleId :

2-MARION26KV-(2-3)

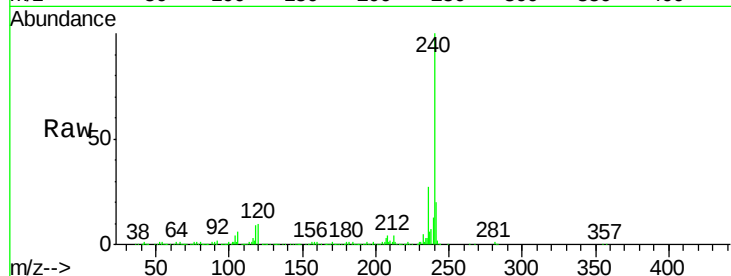
Tgt Ion:240 Resp: 502097

Ion Ratio Lower Upper

240 100

120 9.6 6.8 10.2

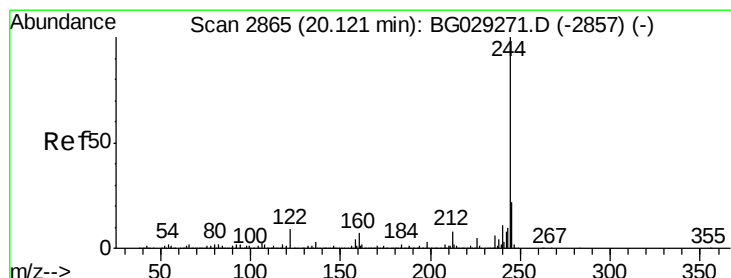
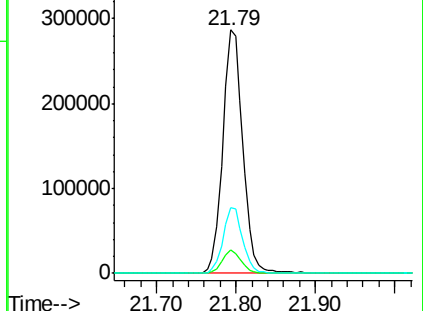
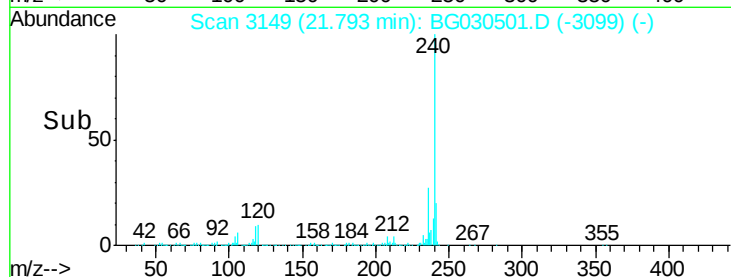
236 26.9 20.9 31.3



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: 84.260 ng

RT: 20.11 min Scan# 2863

Delta R.T. -0.01 min

Lab File: BG030501.D

Acq: 27 Oct 2017 17:24

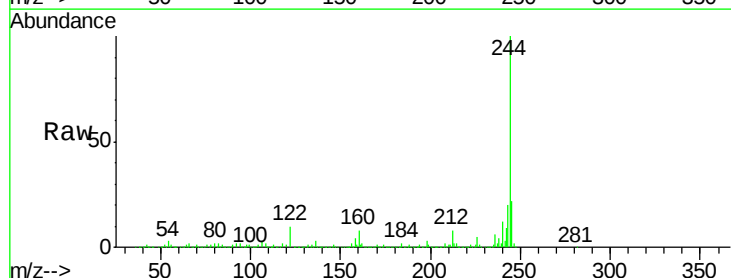
Tgt Ion:244 Resp: 1859696

Ion Ratio Lower Upper

244 100

212 8.4 5.8 8.8

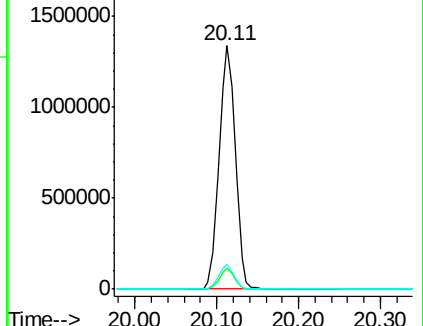
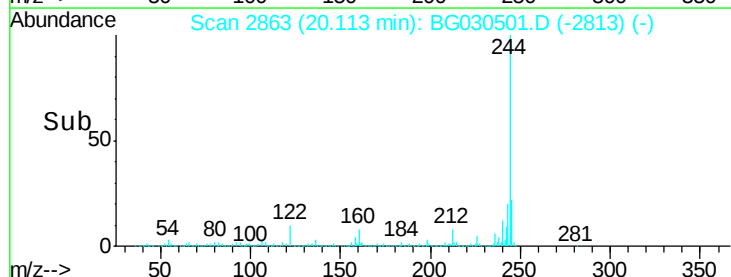
122 10.1 7.0 10.4

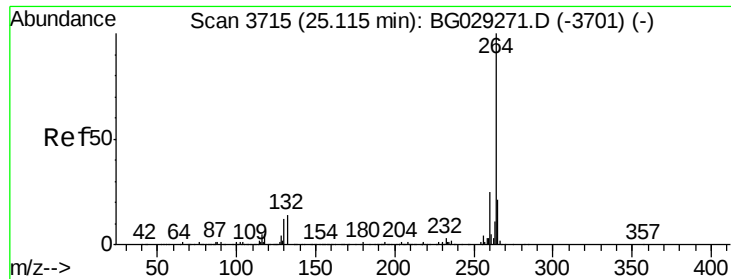


Abundance Ion 244.00 (243.70 to 244.70): E

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: 25.11 min Scan# 3714  
Delta R.T. -0.00 min  
Lab File: BG030501.D  
Acq: 27 Oct 2017 17:24

Instrument :  
BNA\_G  
ClientSampleId :  
2-MARION26KV-(2-3)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.3  | 17.4  | 26.0  |
| 265     | 23.3  | 17.7  | 26.5  |

