

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG111317\  
 Data File : BG030999.D  
 Acq On : 14 Nov 2017 7:50  
 Operator : SJ/JU  
 Sample : I6436-02  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 153RD-63RD-ST-DRUM

Quant Time: Nov 14 11:18:46 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

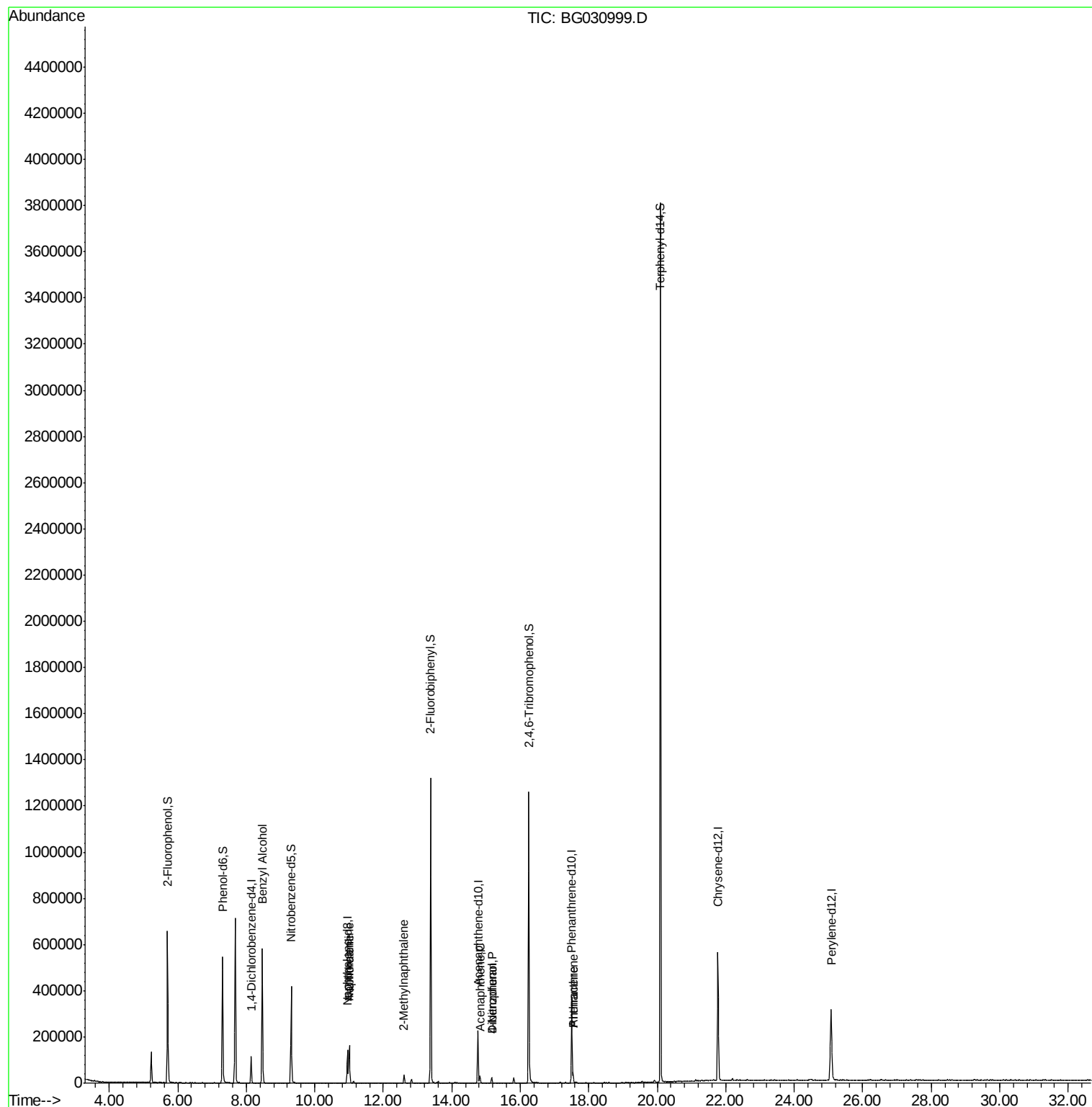
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 8.14  | 152  | 35156    | 20.00  | ng    | -0.01       |
| 21) Naphthalene-d8          | 10.95 | 136  | 134848   | 20.00  | ng    | -0.01       |
| 38) Acenaphthene-d10        | 14.76 | 164  | 86958    | 20.00  | ng    | -0.01       |
| 63) Phenanthrene-d10        | 17.50 | 188  | 252368   | 20.00  | ng    | -0.01       |
| 75) Chrysene-d12            | 21.77 | 240  | 400321   | 20.00  | ng    | -0.01       |
| 86) Perylene-d12            | 25.07 | 264  | 400733   | 20.00  | ng    | -0.02       |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.70  | 112  | 302709   | 147.65 | ng    | 0.00        |
| 7) Phenol-d6                | 7.31  | 99   | 338958   | 122.72 | ng    | 0.00        |
| 23) Nitrobenzene-d5         | 9.31  | 82   | 261806   | 115.05 | ng    | -0.01       |
| 41) 2,4,6-Tribromophenol    | 16.25 | 330  | 302053   | 214.72 | ng    | 0.00        |
| 44) 2-Fluorobiphenyl        | 13.38 | 172  | 762396   | 125.98 | ng    | -0.02       |
| 78) Terphenyl-d14           | 20.09 | 244  | 1891077  | 104.31 | ng    | 0.00        |
| Target Compounds            |       |      |          |        |       |             |
| 15) Benzyl Alcohol          | 8.47  | 79   | 4650     | 2.099  | ng    | Qvalue # 36 |
| 31) Naphthalene             | 11.01 | 128  | 148613   | 22.419 | ng    | 99          |
| 33) 4-Chloroaniline         | 11.01 | 127  | 21472    | 7.399  | ng    | # 33        |
| 37) 2-Methylnaphthalene     | 12.61 | 142  | 19931    | 3.895  | ng    | 98          |
| 51) Acenaphthene            | 14.82 | 154  | 12974    | 2.440  | ng    | 92          |
| 54) Dibenzofuran            | 15.16 | 168  | 20621    | 2.434  | ng    | 98          |
| 55) 4-Nitrophenol           | 15.17 | 139  | 7542     | 6.434  | ng    | # 1         |
| 70) Phenanthrene            | 17.55 | 178  | 33088    | 2.518  | ng    | 97          |
| 71) Anthracene              | 17.55 | 178  | 33088    | 2.513  | ng    | 97          |

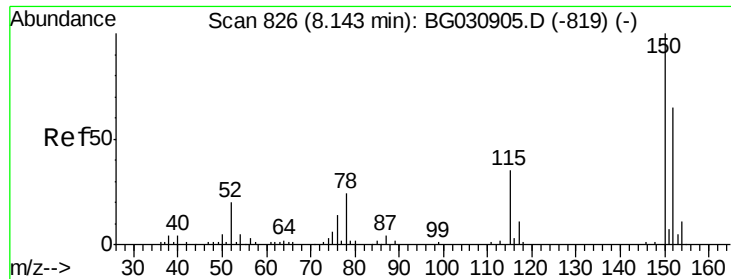
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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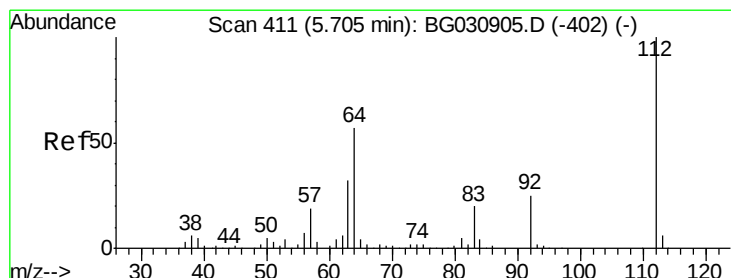
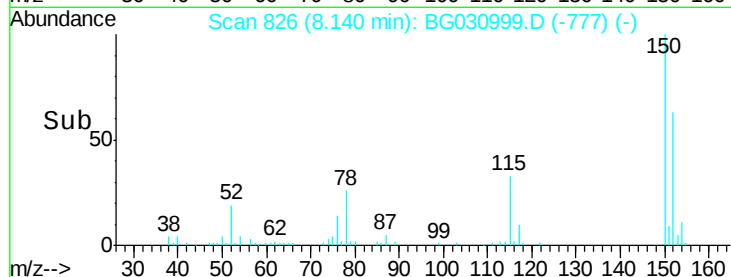
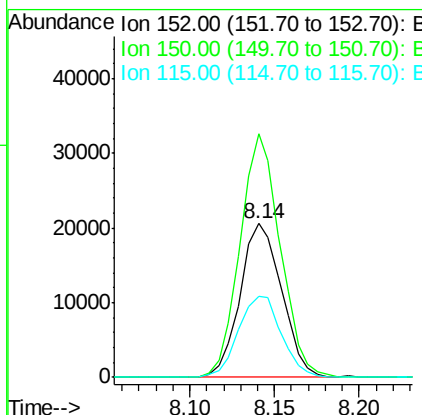
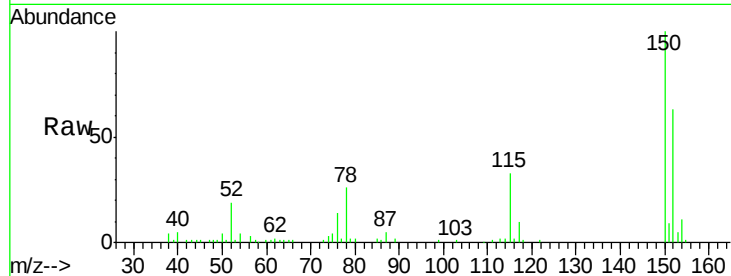


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.14 min Scan# 826  
Delta R.T. -0.01 min  
Lab File: BG030999.D  
Acq: 14 Nov 2017 7:50

Instrument :  
BNA\_G  
ClientSampleId :  
153RD-63RD-ST-DRUM

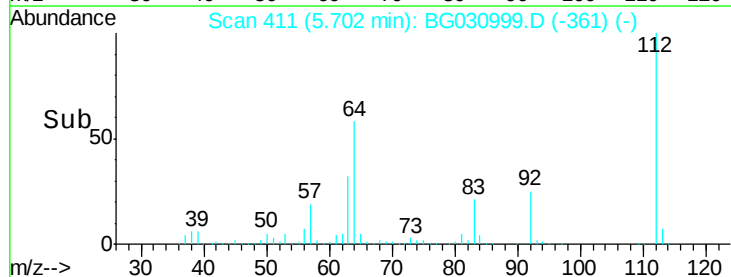
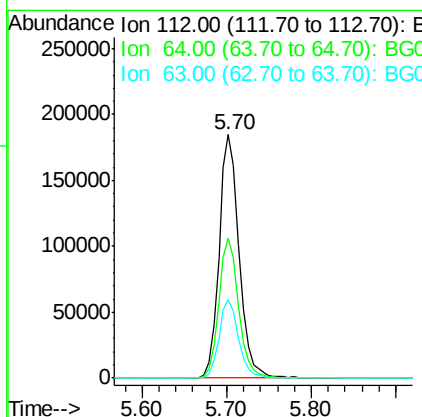
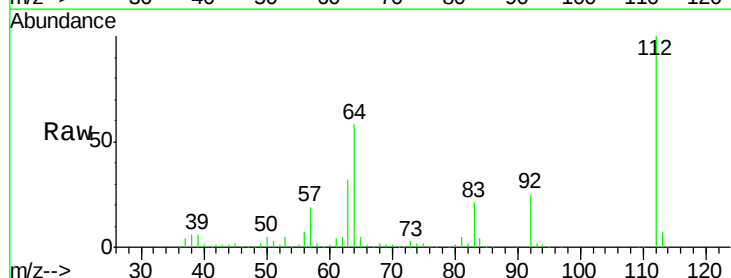
Tgt Ion:152 Resp: 35156  
Ion Ratio Lower Upper  
152 100  
150 158.6 126.6 189.8  
115 53.1 53.0 79.4

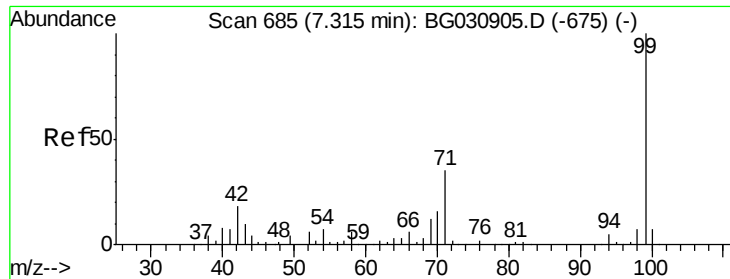


#5

2-Fluorophenol  
Concen: 147.649 ng  
RT: 5.70 min Scan# 411  
Delta R.T. -0.01 min  
Lab File: BG030999.D  
Acq: 14 Nov 2017 7:50

Tgt Ion:112 Resp: 302709  
Ion Ratio Lower Upper  
112 100  
64 57.6 56.3 84.5  
63 32.0 30.1 45.1





#7

Phenol-d6

Concen: 122.719 ng

RT: 7.31 min Scan# 684

Delta R.T. -0.00 min

Lab File: BG030999.D

Acq: 14 Nov 2017 7:50

Instrument :

BNA\_G

ClientSampleId :

153RD-63RD-ST-DRUM

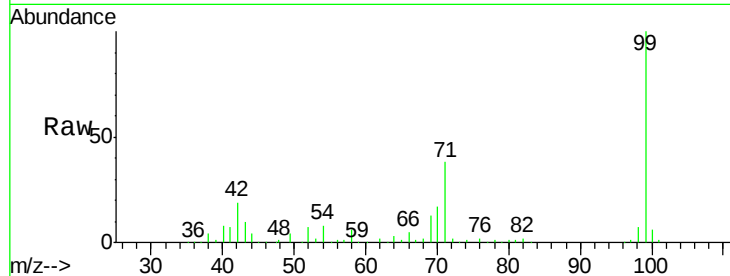
Tgt Ion: 99 Resp: 338958

Ion Ratio Lower Upper

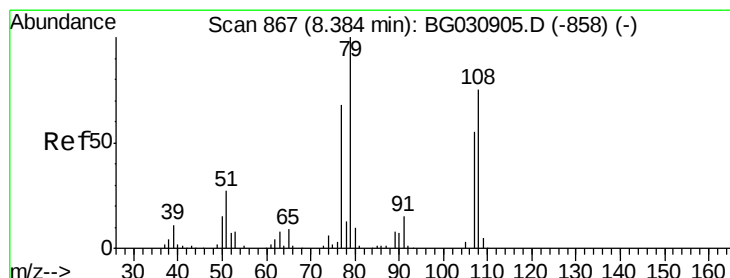
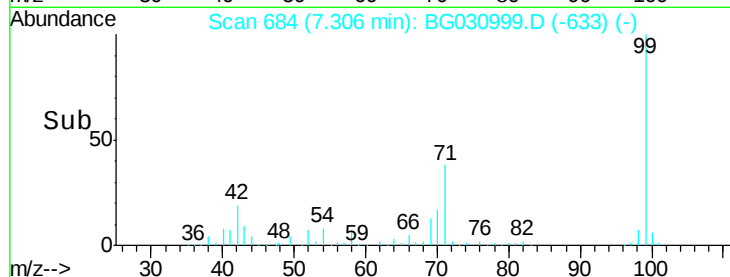
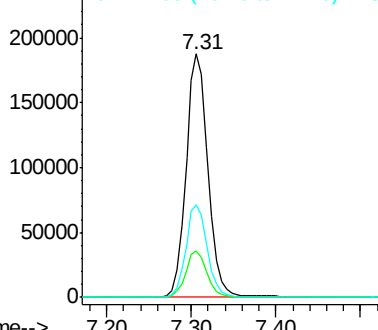
99 100

42 19.0 14.1 21.1

71 37.8 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



#15

Benzyl Alcohol

Concen: 2.099 ng

RT: 8.47 min Scan# 882

Delta R.T. 0.08 min

Lab File: BG030999.D

Acq: 14 Nov 2017 7:50

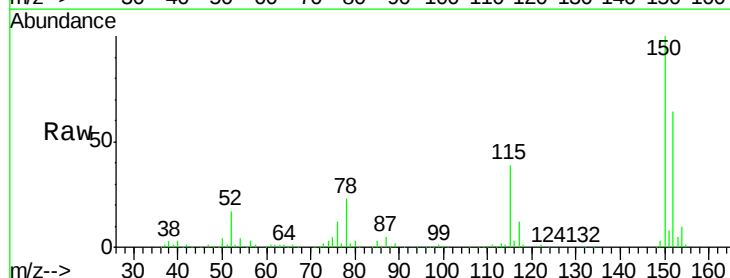
Tgt Ion: 79 Resp: 4650

Ion Ratio Lower Upper

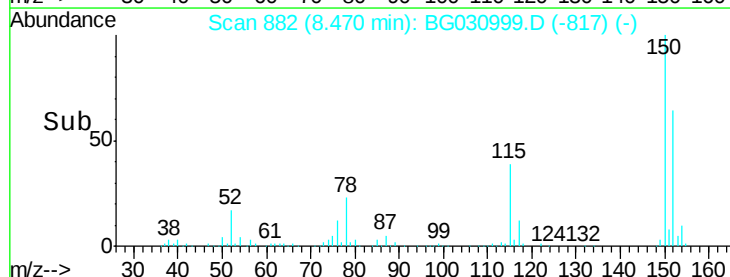
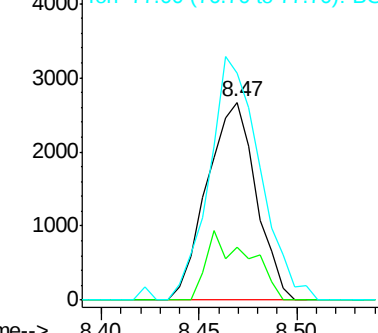
79 100

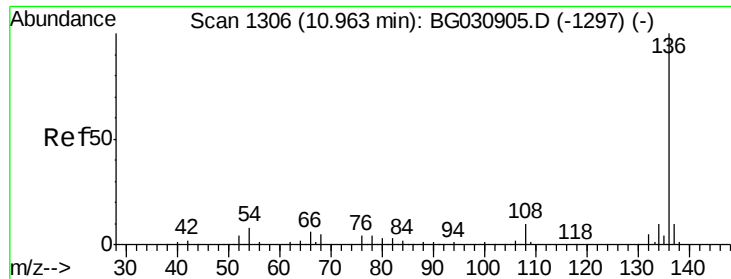
108 26.5 57.2 85.8#

77 114.8 46.1 69.1#



Abundance Ion 79.00 (78.70 to 79.70): BGC  
Ion 108.00 (107.70 to 108.70): BGC  
Ion 77.00 (76.70 to 77.70): BGC

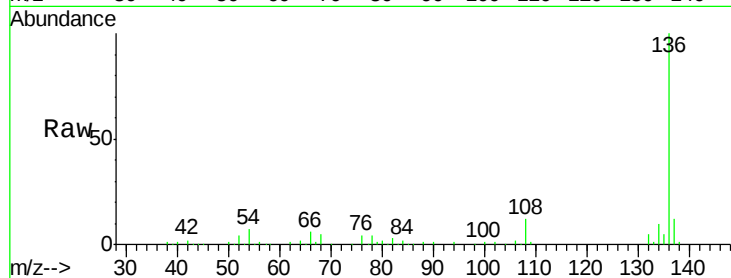




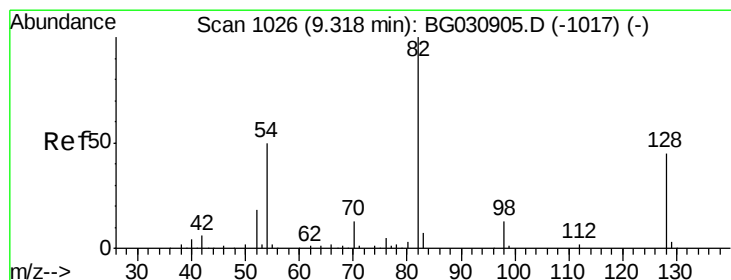
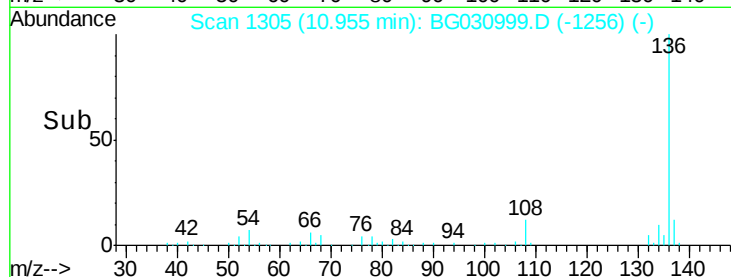
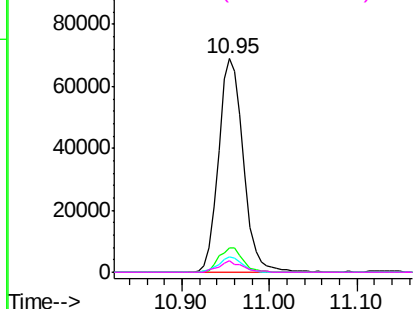
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.95 min Scan# 1305  
Delta R.T. -0.01 min  
Lab File: BG030999.D  
Acq: 14 Nov 2017 7:50

Instrument :  
BNA\_G  
ClientSampleId :  
153RD-63RD-ST-DRUM

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 134848 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.6  | 9.2   | 13.8   |
| 54       | 7.1   | 10.3  | 15.5   |
| 68       | 5.2   | 4.5   | 6.7    |

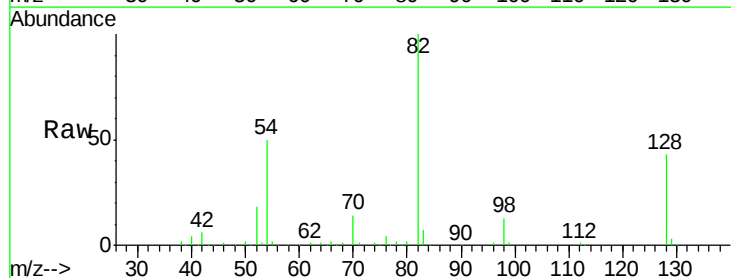


Abundance Ion 136.00 (135.70 to 136.70): B  
Ion 137.00 (136.70 to 137.70): B  
Ion 54.00 (53.70 to 54.70): B  
Ion 68.00 (67.70 to 68.70): B

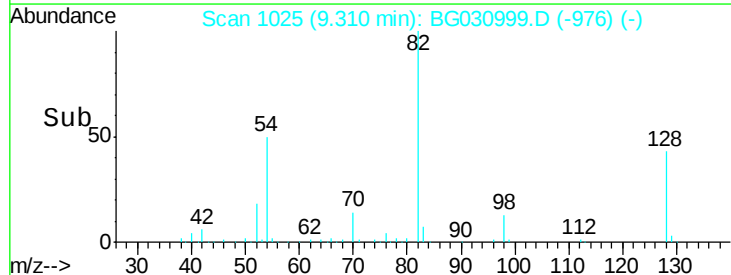
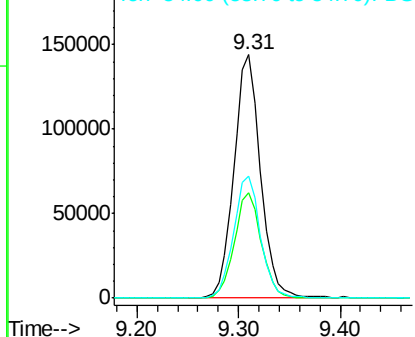


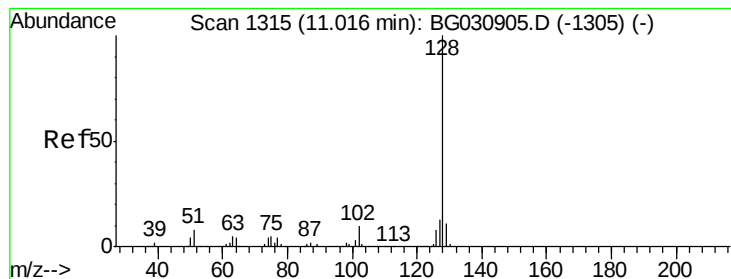
#23  
Nitrobenzene-d5  
Concen: 115.045 ng  
RT: 9.31 min Scan# 1025  
Delta R.T. -0.01 min  
Lab File: BG030999.D  
Acq: 14 Nov 2017 7:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 261806 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.1  | 29.7  | 44.5   |
| 54       | 49.9  | 43.1  | 64.7   |



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





#31

Naphthalene

Concen: 22.419 ng

RT: 11.01 min Scan# 1314

Delta R.T. -0.01 min

Lab File: BG030999.D

Acq: 14 Nov 2017 7:50

Instrument :

BNA\_G

ClientSampleId :

153RD-63RD-ST-DRUM

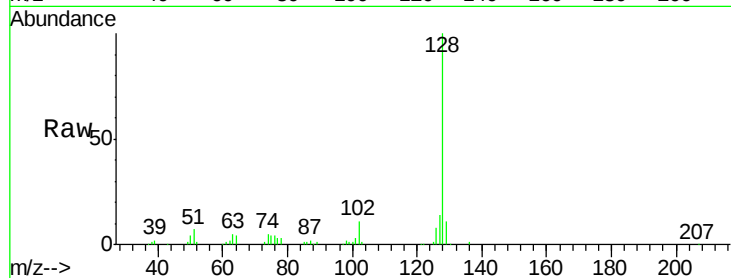
Tgt Ion:128 Resp: 148613

Ion Ratio Lower Upper

128 100

129 10.9 8.6 12.8

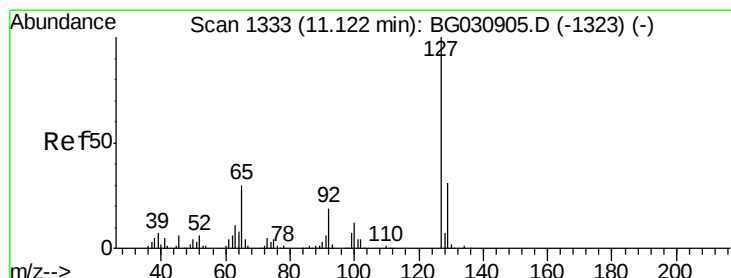
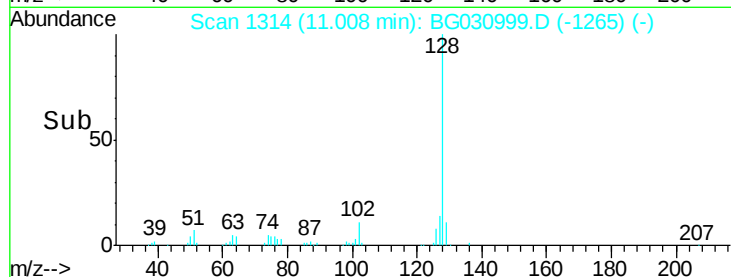
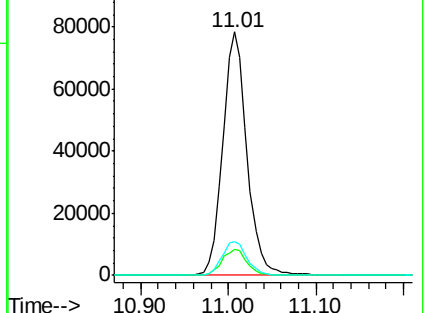
127 13.8 11.6 17.4



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#33

4-Chloroaniline

Concen: 7.399 ng

RT: 11.01 min Scan# 1314

Delta R.T. -0.11 min

Lab File: BG030999.D

Acq: 14 Nov 2017 7:50

Tgt Ion:127 Resp: 21472

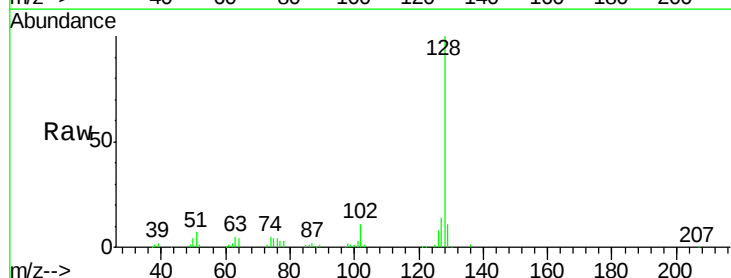
Ion Ratio Lower Upper

127 100

129 79.3 24.0 36.0#

65 0.0 27.0 40.4#

92 0.0 16.6 25.0#

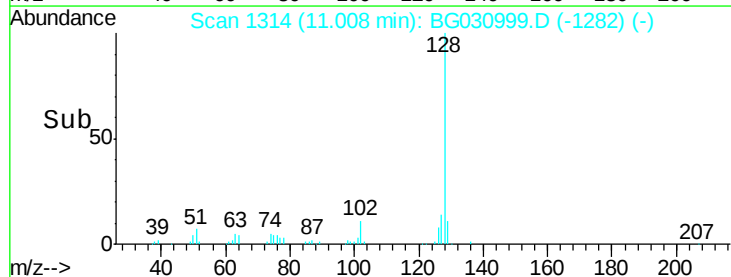
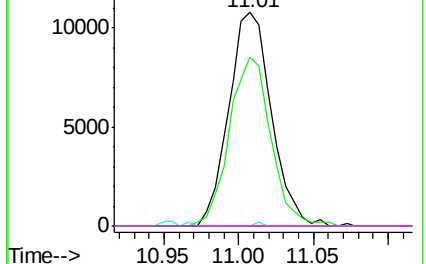


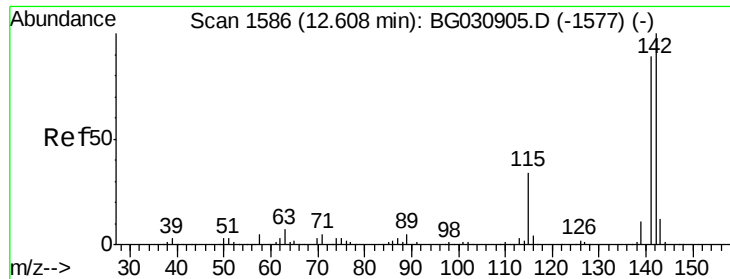
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BGC

Ion 92.00 (91.70 to 92.70): BGC

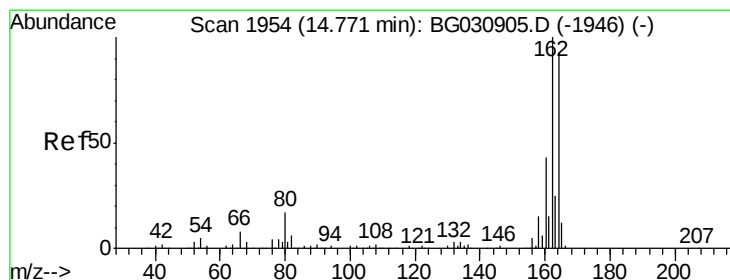
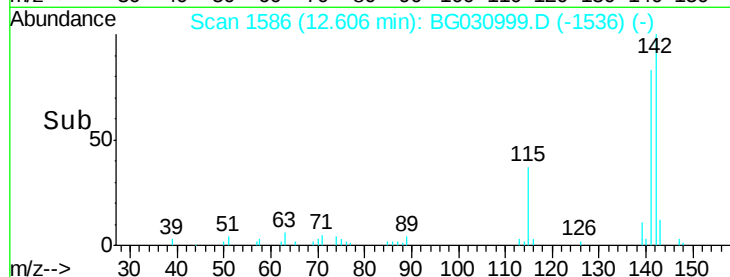
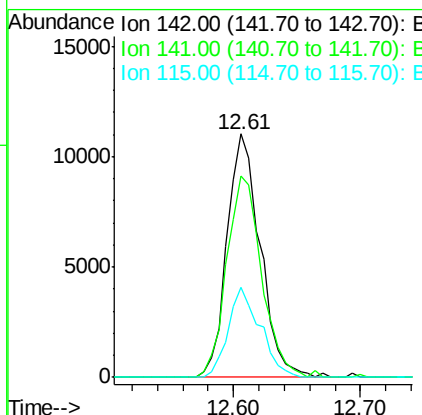
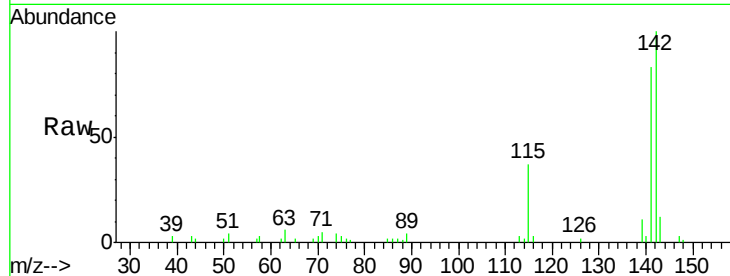




#37  
 2-Methylnaphthalene  
 Concen: 3.895 ng  
 RT: 12.61 min Scan# 1586  
 Delta R.T. -0.01 min  
 Lab File: BG030999.D  
 Acq: 14 Nov 2017 7:50

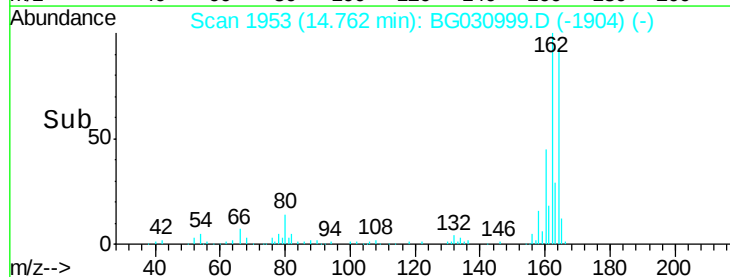
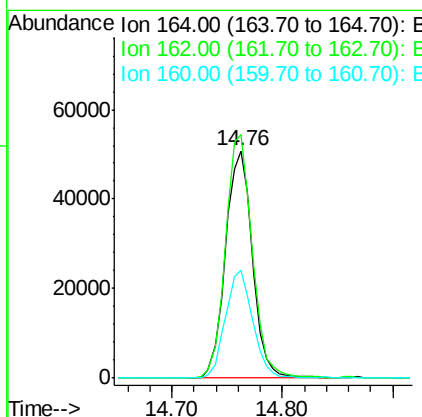
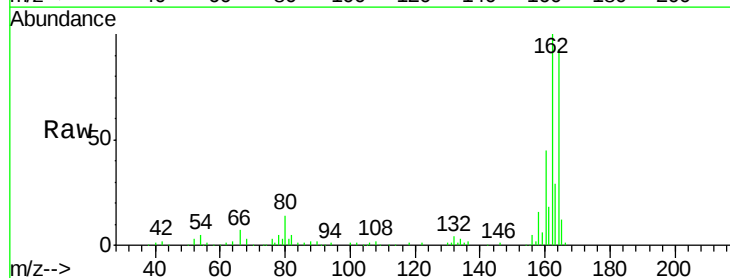
Instrument :  
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 153RD-63RD-ST-DRUM

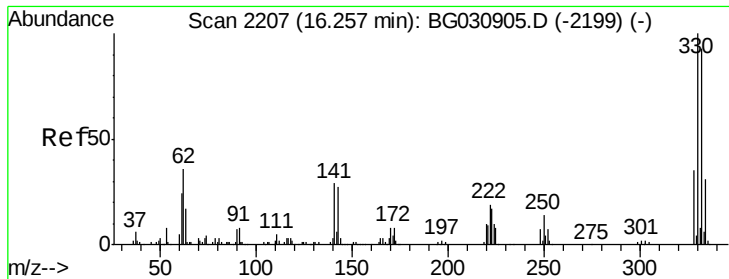
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 82.8  | 67.1  | 100.7 |
| 115     | 37.1  | 30.7  | 46.1  |



#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.76 min Scan# 1953  
 Delta R.T. -0.01 min  
 Lab File: BG030999.D  
 Acq: 14 Nov 2017 7:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 107.1 | 78.8  | 118.2 |
| 160     | 47.7  | 35.4  | 53.0  |

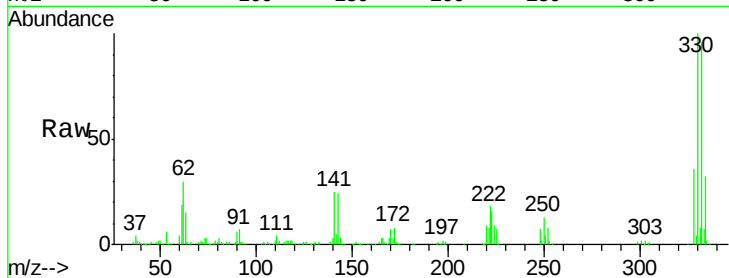




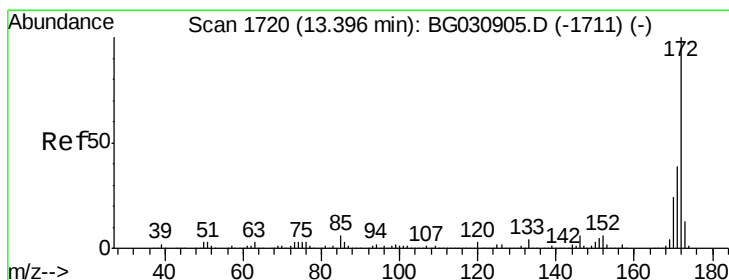
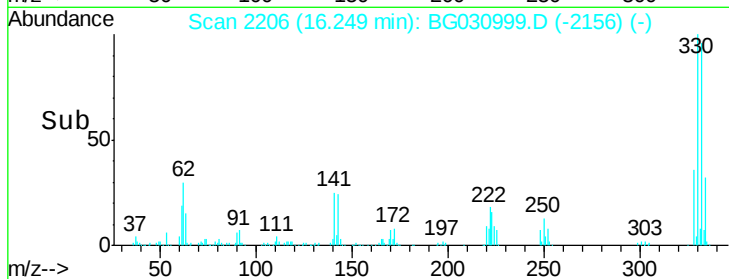
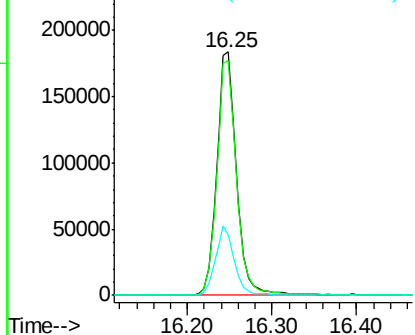
#41  
 2,4,6-Tribromophenol  
 Concen: 214.725 ng  
 RT: 16.25 min Scan# 2206  
 Delta R.T. -0.01 min  
 Lab File: BG030999.D  
 Acq: 14 Nov 2017 7:50

Instrument :  
 BNA\_G  
 ClientSampleId :  
 153RD-63RD-ST-DRUM

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.6  | 77.0  | 115.6 |
| 141     | 27.5  | 25.2  | 37.8  |

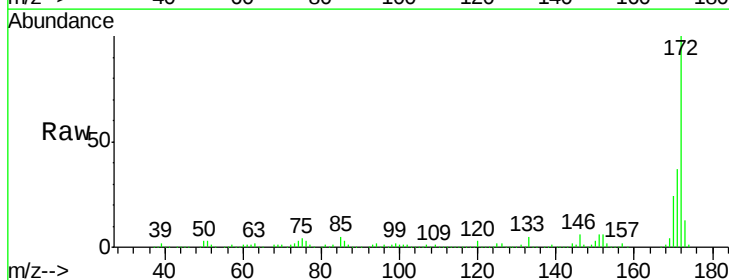


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

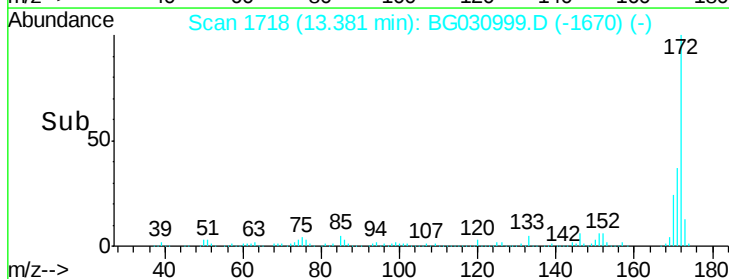
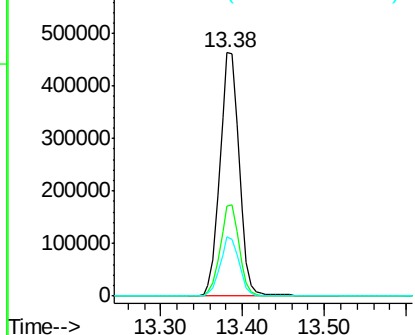


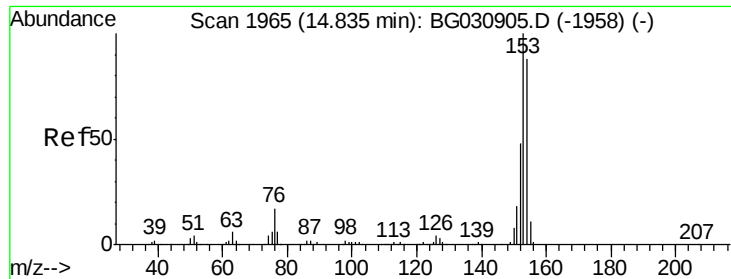
#44  
 2-Fluorobiphenyl  
 Concen: 125.978 ng  
 RT: 13.38 min Scan# 1718  
 Delta R.T. -0.02 min  
 Lab File: BG030999.D  
 Acq: 14 Nov 2017 7:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.1  | 30.0  | 45.0  |
| 170     | 24.2  | 19.5  | 29.3  |



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





#51

Acenaphthene

Concen: 2.440 ng

RT: 14.82 min Scan# 1963

Delta R.T. -0.01 min

Lab File: BG030999.D

Acq: 14 Nov 2017 7:50

Instrument :

BNA\_G

ClientSampleId :

153RD-63RD-ST-DRUM

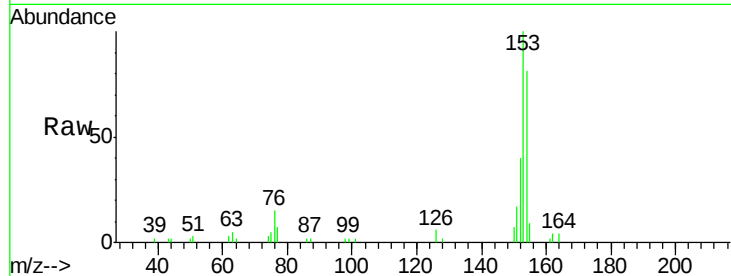
Tgt Ion:154 Resp: 12974

Ion Ratio Lower Upper

154 100

153 123.5 90.4 135.6

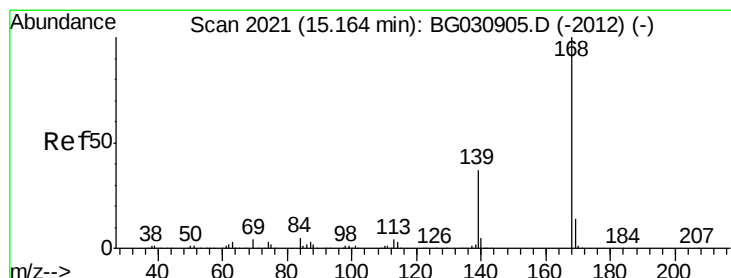
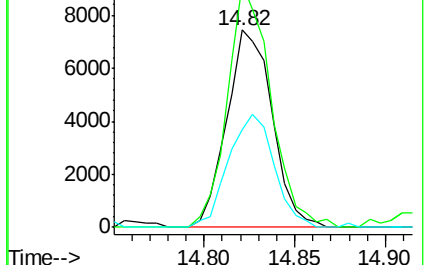
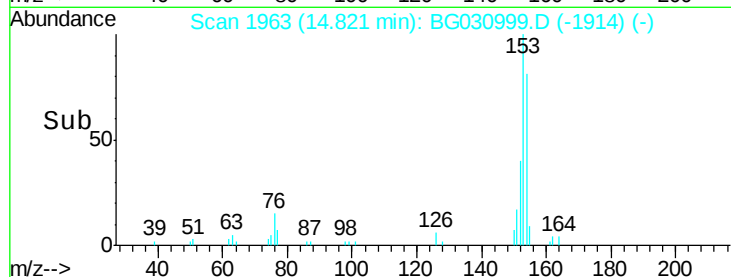
152 49.8 41.6 62.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.434 ng

RT: 15.16 min Scan# 2021

Delta R.T. -0.01 min

Lab File: BG030999.D

Acq: 14 Nov 2017 7:50

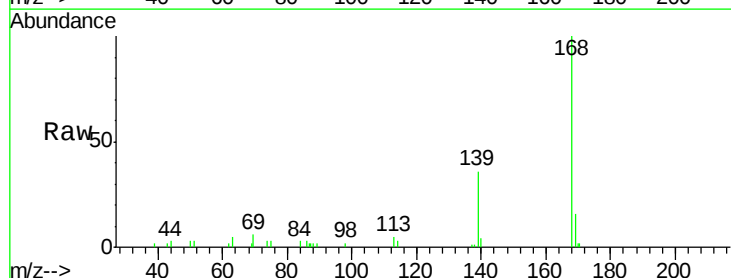
Tgt Ion:168 Resp: 20621

Ion Ratio Lower Upper

168 100

139 36.5 28.6 43.0

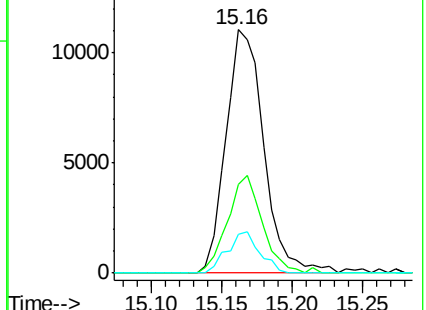
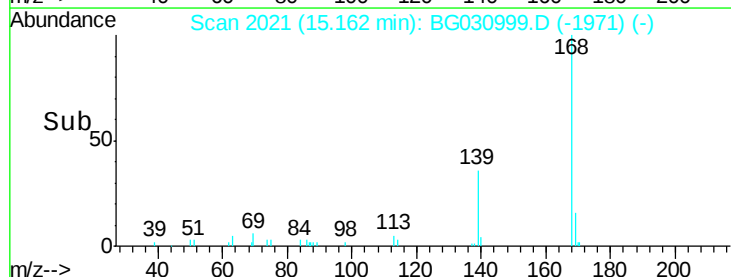
169 15.8 11.2 16.8

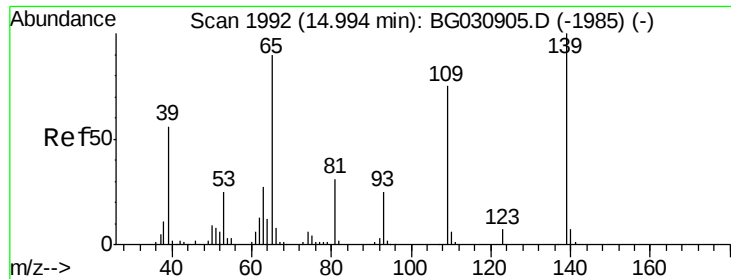


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

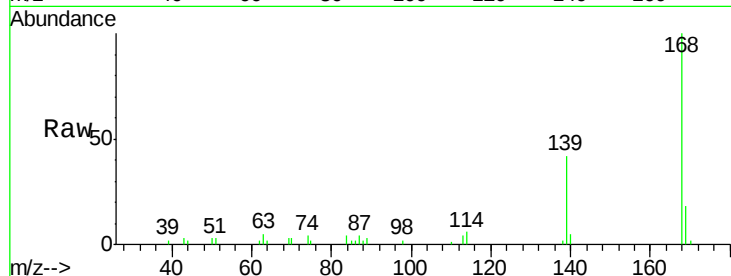




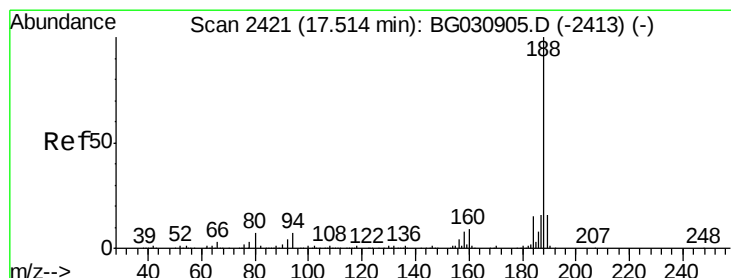
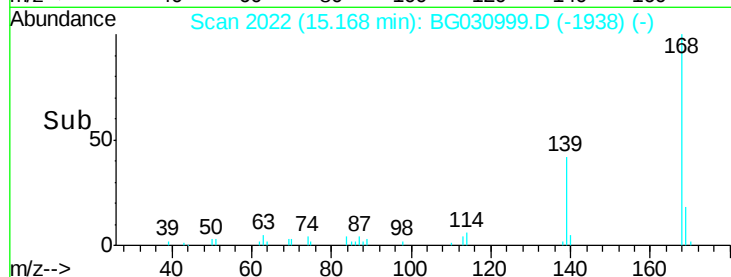
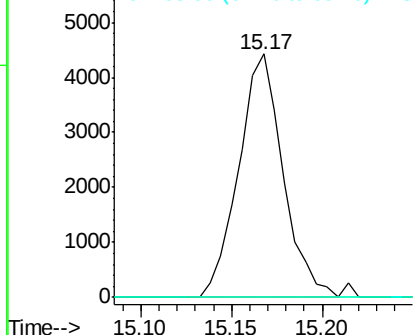
#55  
4-Nitrophenol  
Concen: 6.434 ng  
RT: 15.17 min Scan# 2022  
Delta R.T. 0.19 min  
Lab File: BG030999.D  
Acq: 14 Nov 2017 7:50

Instrument :  
BNA\_G  
ClientSampleId :  
153RD-63RD-ST-DRUM

Tgt Ion:139 Resp: 7542  
Ion Ratio Lower Upper  
139 100  
109 0.0 62.2 102.2#  
65 0.0 97.2 137.2#

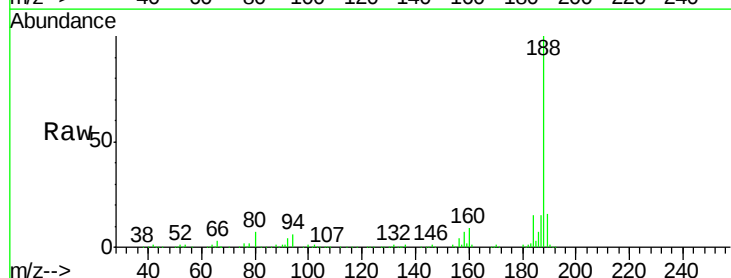


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BGC

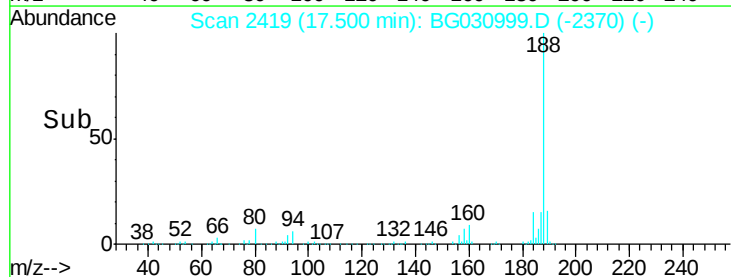
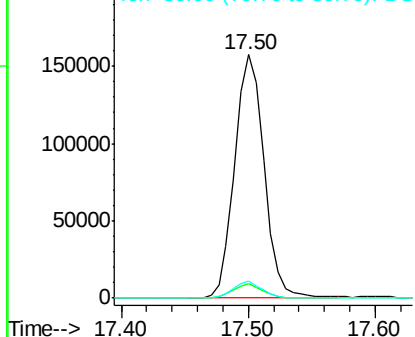


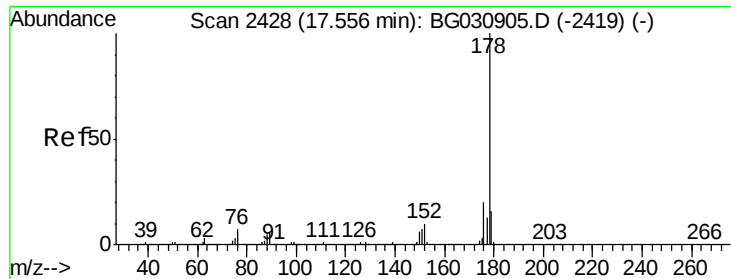
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.50 min Scan# 2419  
Delta R.T. -0.01 min  
Lab File: BG030999.D  
Acq: 14 Nov 2017 7:50

Tgt Ion:188 Resp: 252368  
Ion Ratio Lower Upper  
188 100  
94 6.1 6.9 10.3#  
80 7.0 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: 2.518 ng

RT: 17.55 min Scan# 2427

Delta R.T. -0.01 min

Lab File: BG030999.D

Acq: 14 Nov 2017 7:50

Instrument :

BNA\_G

ClientSampleId :

153RD-63RD-ST-DRUM

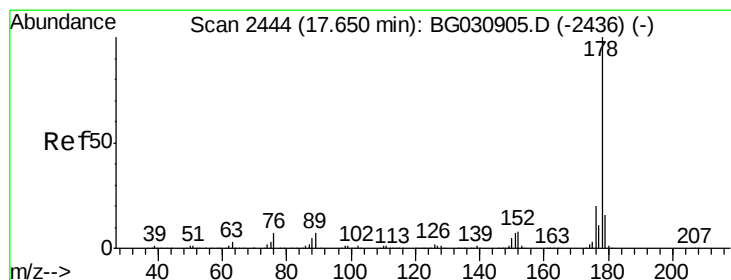
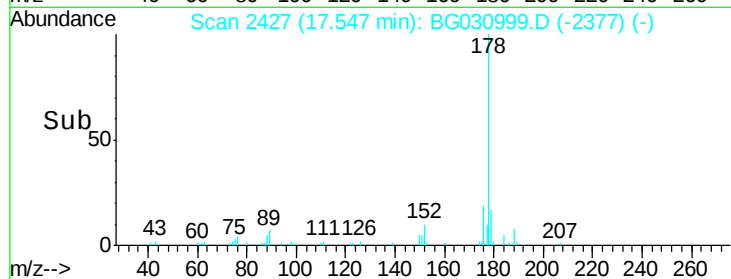
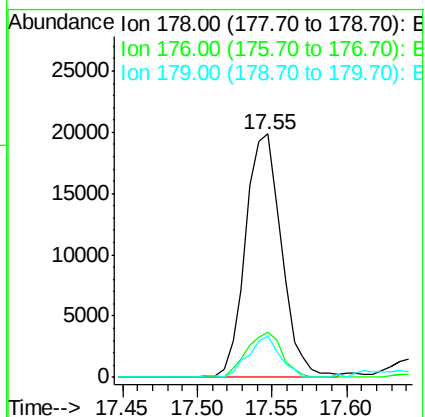
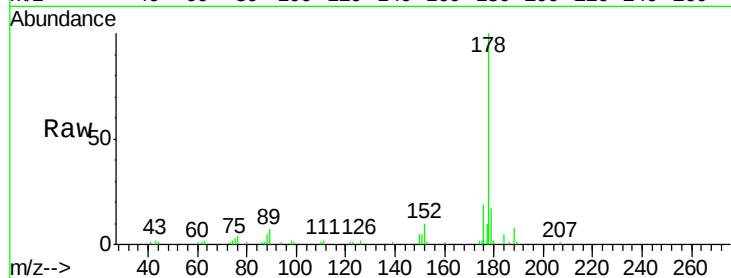
Tgt Ion:178 Resp: 33088

Ion Ratio Lower Upper

178 100

176 18.5 15.7 23.5

179 16.8 12.5 18.7



#71

Anthracene

Concen: 2.513 ng

RT: 17.55 min Scan# 2427

Delta R.T. -0.09 min

Lab File: BG030999.D

Acq: 14 Nov 2017 7:50

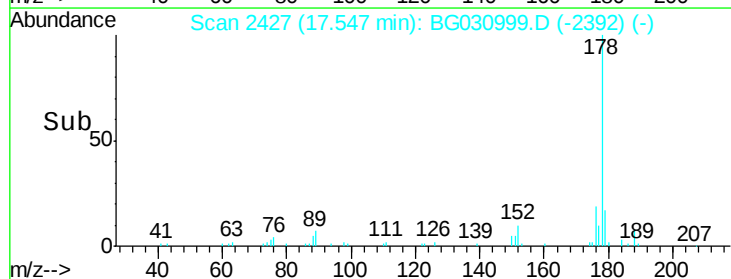
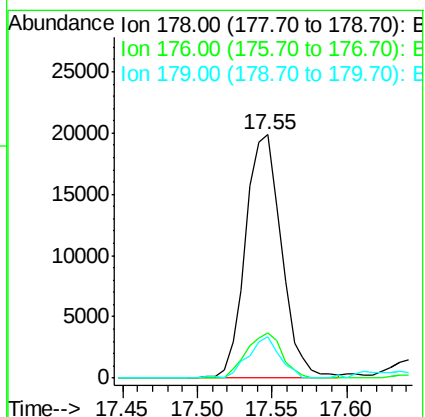
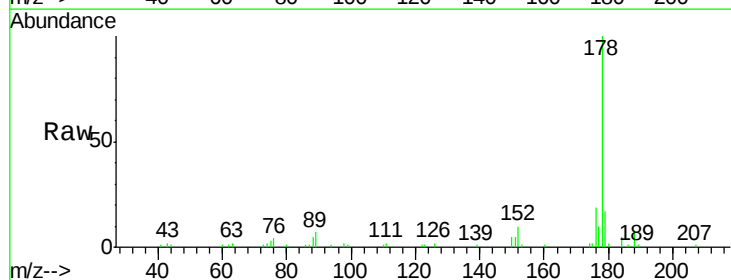
Tgt Ion:178 Resp: 33088

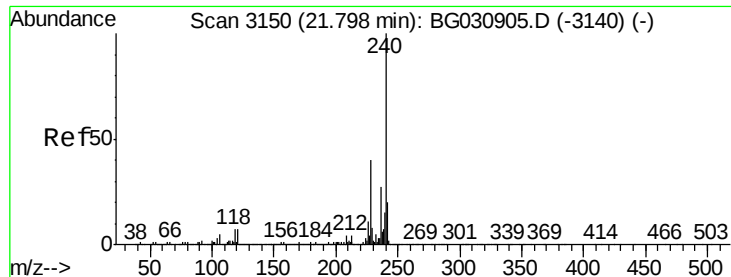
Ion Ratio Lower Upper

178 100

176 18.5 16.0 24.0

179 16.8 12.5 18.7





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.77 min Scan# 3146

Delta R.T. -0.01 min

Lab File: BG030999.D

Acq: 14 Nov 2017 7:50

Instrument :

BNA\_G

ClientSampleId :

153RD-63RD-ST-DRUM

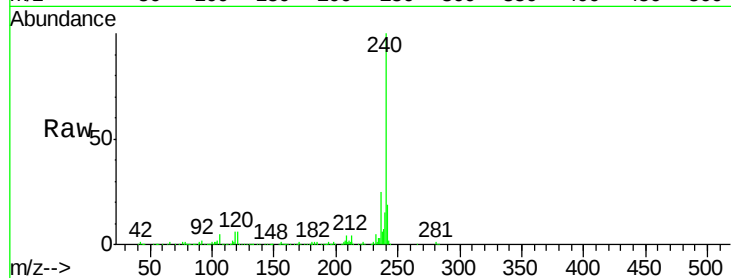
Tgt Ion:240 Resp: 400321

Ion Ratio Lower Upper

240 100

120 6.0 6.8 10.2#

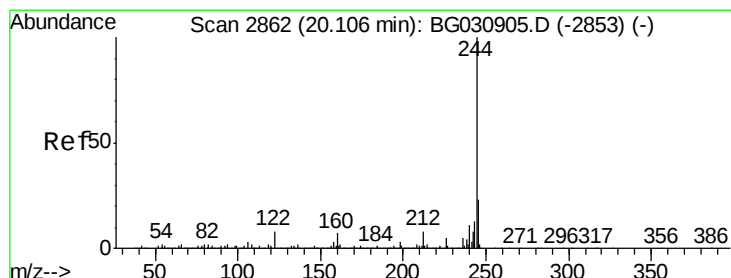
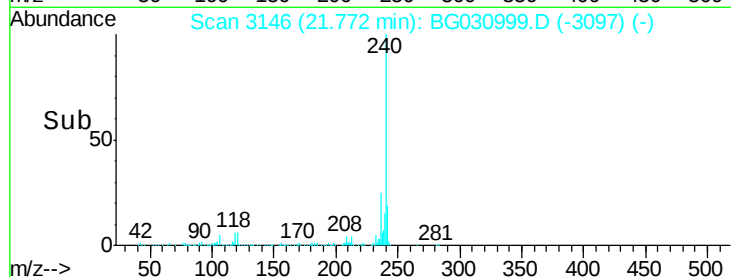
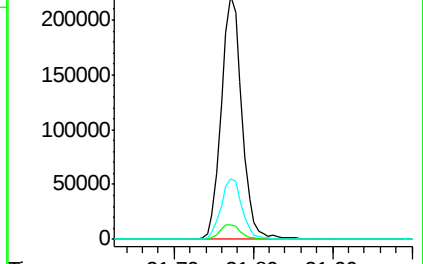
236 25.0 20.9 31.3



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: 104.308 ng

RT: 20.09 min Scan# 2860

Delta R.T. -0.01 min

Lab File: BG030999.D

Acq: 14 Nov 2017 7:50

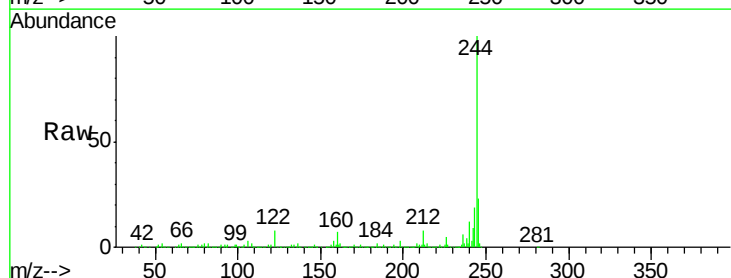
Tgt Ion:244 Resp: 1891077

Ion Ratio Lower Upper

244 100

212 7.8 5.8 8.8

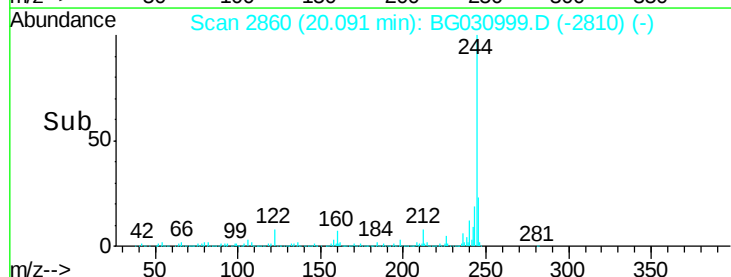
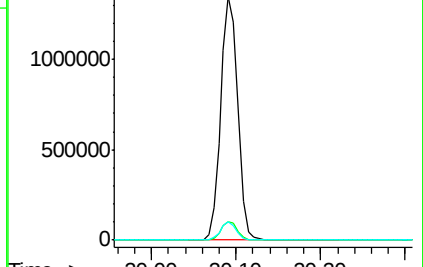
122 7.5 7.0 10.4

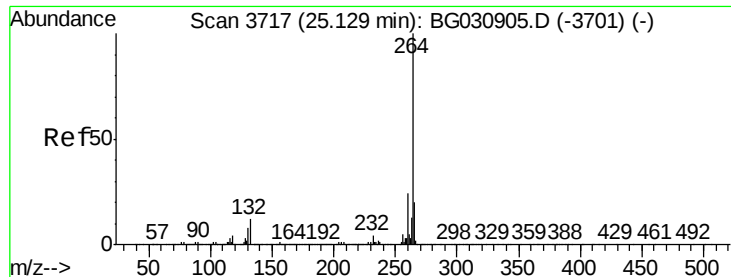


Abundance Ion 244.00 (243.70 to 244.70): E

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: 25.07 min Scan# 3708  
Delta R.T. -0.02 min  
Lab File: BG030999.D  
Acq: 14 Nov 2017 7:50

Instrument :  
BNA\_G  
ClientSampleId :  
153RD-63RD-ST-DRUM

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 17.4  | 26.0  |
| 265     | 21.0  | 17.7  | 26.5  |

