

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG012615\  
 Data File : BG015934.D  
 Acq On : 27 Jan 2015 6:51  
 Operator : TP/IZ  
 Sample : G1139-10  
 Misc : S  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 121B2C

Quant Time: Jan 27 07:35:22 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG012015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 20 17:47:40 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 96494    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.47 | 136  | 387160   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 14.33 | 164  | 309812   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.08 | 188  | 872672   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.27 | 240  | 1239220  | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 23.52 | 264  | 1155998  | 20.00 | ng    | 0.00     |

|                             |       |     |         |       |    |      |
|-----------------------------|-------|-----|---------|-------|----|------|
| System Monitoring Compounds |       |     |         |       |    |      |
| 5) 2-Fluorophenol           | 5.28  | 112 | 272812  | 42.10 | ng | 0.00 |
| 7) Phenol-d6                | 6.86  | 99  | 293315  | 28.09 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 8.84  | 82  | 895304  | 66.66 | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 15.82 | 330 | 490071  | 86.41 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 12.95 | 172 | 1593934 | 80.72 | ng | 0.00 |
| 78) Terphenyl-d14           | 19.71 | 244 | 3109511 | 65.98 | ng | 0.00 |

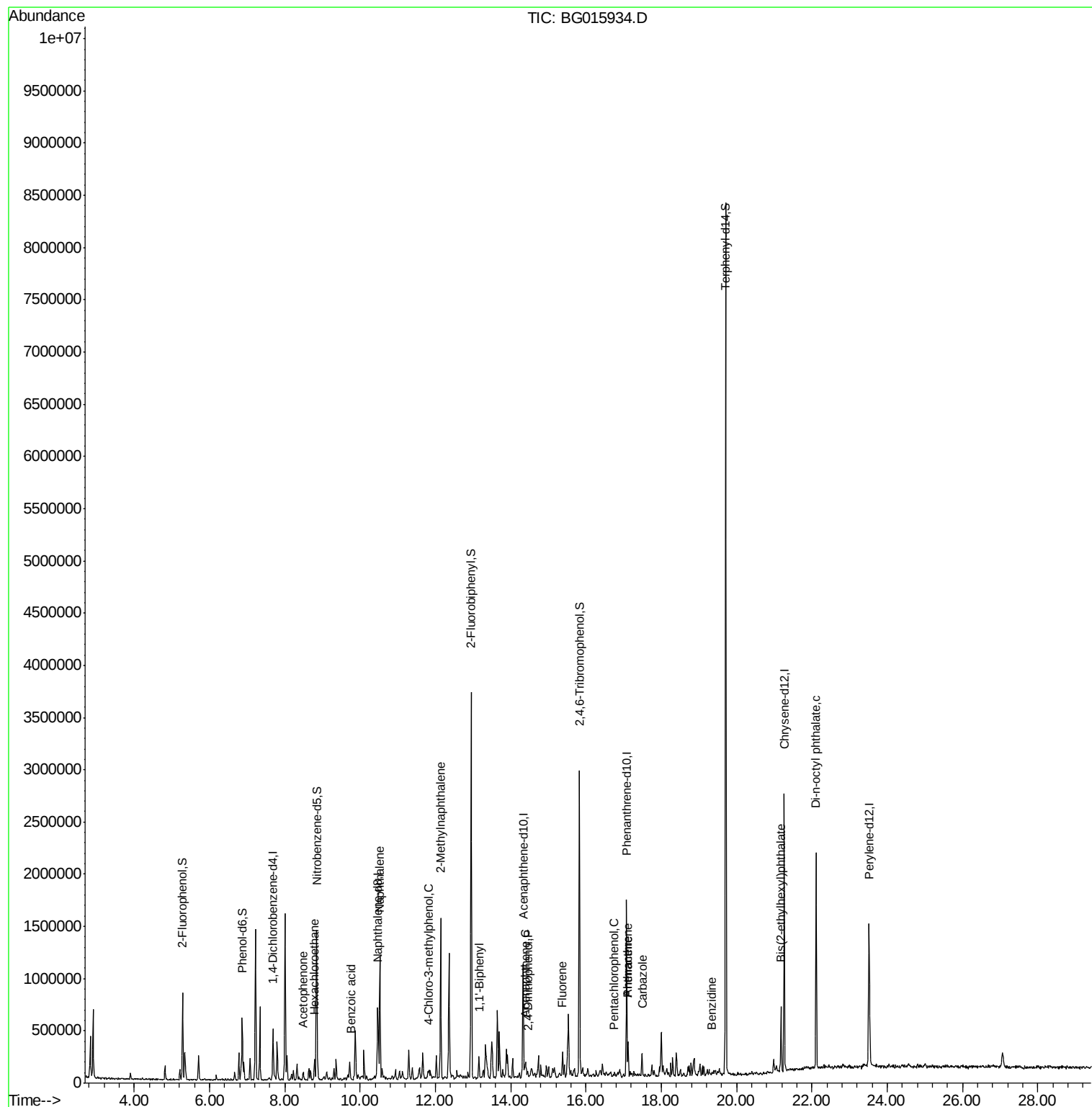
|                                |       |     |        |       |    |        |
|--------------------------------|-------|-----|--------|-------|----|--------|
| Target Compounds               |       |     |        |       |    | Qvalue |
| 18) Hexachloroethane           | 8.79  | 117 | 28989  | 7.42  | ng | # 1    |
| 22) Acetophenone               | 8.48  | 105 | 54462  | 4.20  | ng | # 54   |
| 31) Naphthalene                | 10.52 | 128 | 646974 | 32.65 | ng | 97     |
| 32) Benzoic acid               | 9.76  | 122 | 85     | 10.29 | ng | # 25   |
| 36) 4-Chloro-3-methylphenol    | 11.82 | 107 | 29161  | 2.84  | ng | # 33   |
| 37) 2-Methylnaphthalene        | 12.13 | 142 | 593313 | 37.70 | ng | 88     |
| 45) 1,1'-Biphenyl              | 13.16 | 154 | 74781  | 3.82  | ng | 91     |
| 51) Acenaphthene               | 14.39 | 154 | 39859  | 2.53  | ng | 91     |
| 53) 2,4-Dinitrophenol          | 14.47 | 184 | 112    | 4.54  | ng | # 53   |
| 57) Fluorene                   | 15.38 | 166 | 79299  | 3.38  | ng | # 93   |
| 69) Pentachlorophenol          | 16.74 | 266 | 1285   | 5.44  | ng | # 17   |
| 70) Phenanthrene               | 17.12 | 178 | 173594 | 3.96  | ng | 93     |
| 71) Anthracene                 | 17.12 | 178 | 173594 | 4.04  | ng | 96     |
| 72) Carbazole                  | 17.49 | 167 | 121549 | 3.21  | ng | 96     |
| 76) Benzidine                  | 19.33 | 184 | 473    | 2.00  | ng | # 1    |
| 83) Bis(2-ethylhexyl)phthalate | 21.18 | 149 | 179429 | 6.18  | ng | 98     |
| 84) Di-n-octyl phthalate       | 22.11 | 149 | 240759 | 5.36  | ng | # 66   |

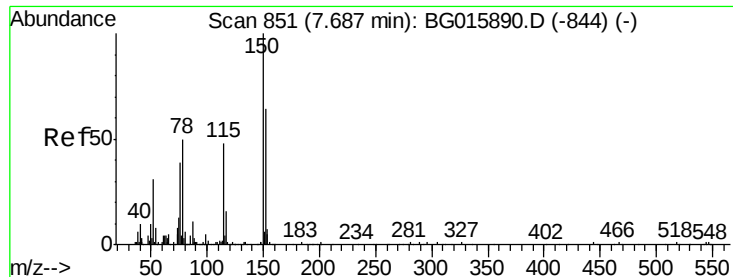
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\Data\BG012615\  
Data File : BG015934.D  
Acq On : 27 Jan 2015 6:51  
Operator : TP/IZ  
Sample : G1139-10  
Misc : S  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
121B2C

Quant Time: Jan 27 07:35:22 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG012015.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jan 20 17:47:40 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.69 min Scan# 851

Delta R.T. 0.00 min

Lab File: BG015934.D

Acq: 27 Jan 2015 6:51

Instrument :

BNA\_G

ClientSampled :

121B2C

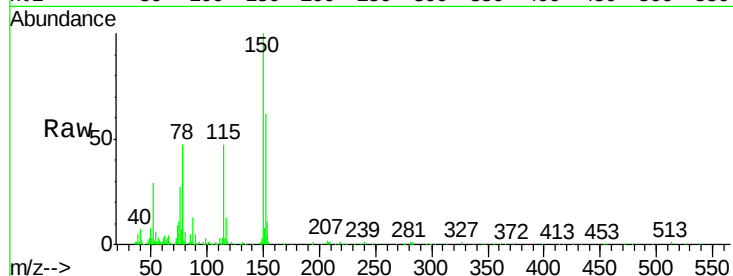
Tgt Ion:152 Resp: 96494

Ion Ratio Lower Upper

152 100

150 161.3 124.5 186.7

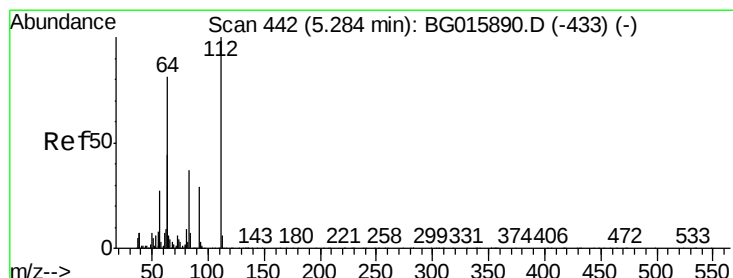
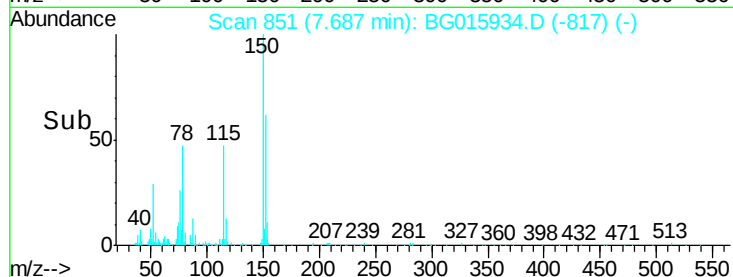
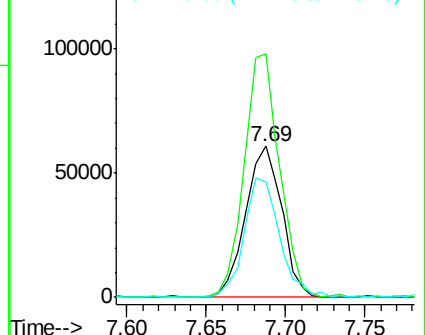
115 76.3 60.4 90.6



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: 42.10 ng

RT: 5.28 min Scan# 441

Delta R.T. -0.01 min

Lab File: BG015934.D

Acq: 27 Jan 2015 6:51

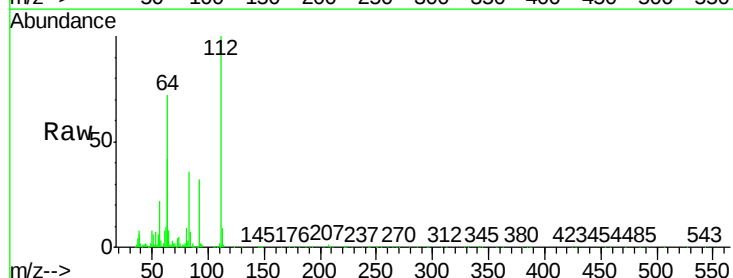
Tgt Ion:112 Resp: 272812

Ion Ratio Lower Upper

112 100

64 71.8 64.4 96.6

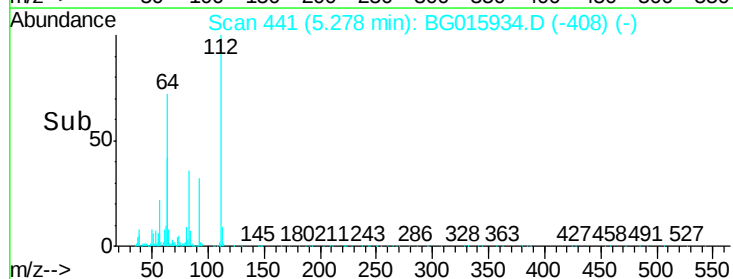
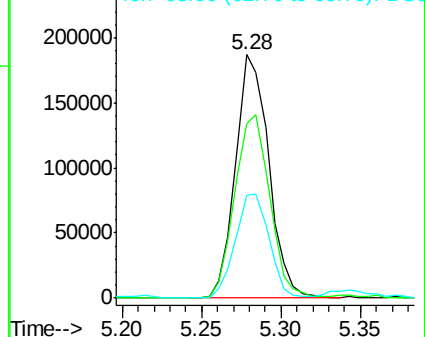
63 42.4 35.1 52.7

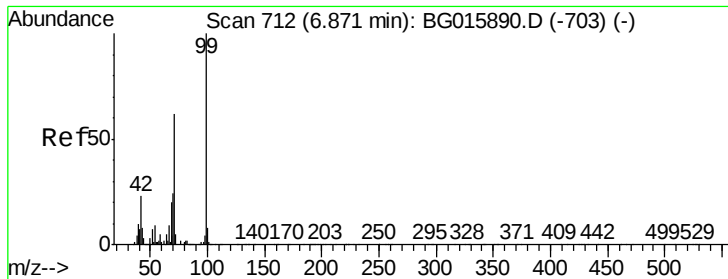


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 28.09 ng

RT: 6.86 min Scan# 711

Delta R.T. -0.01 min

Lab File: BG015934.D

Acq: 27 Jan 2015 6:51

Instrument :

BNA\_G

ClientSampleId :

121B2C

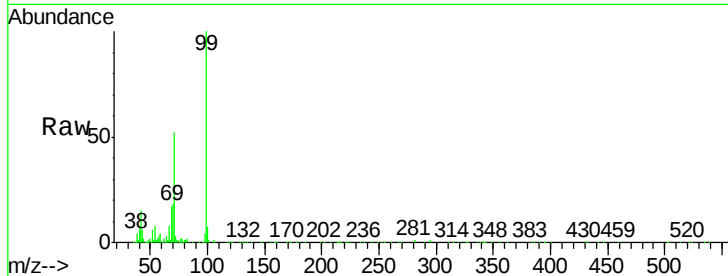
Tgt Ion: 99 Resp: 293315

Ion Ratio Lower Upper

99 100

42 15.0 18.1 27.1#

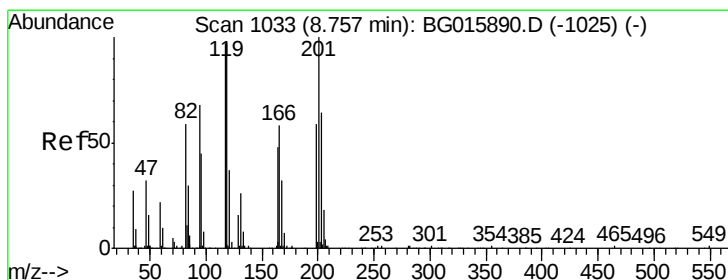
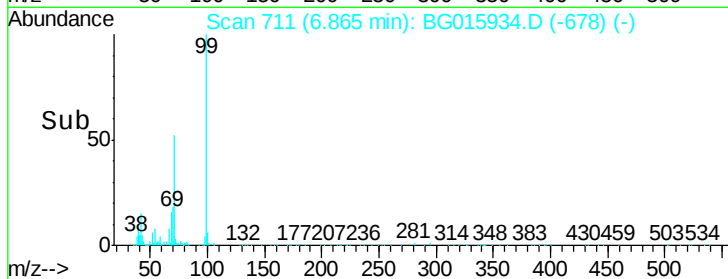
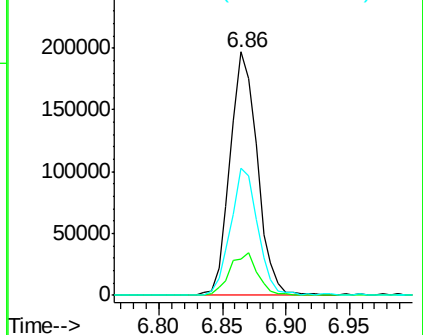
71 52.3 49.8 74.8



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



#18

Hexachloroethane

Concen: 7.42 ng

RT: 8.79 min Scan# 1039

Delta R.T. 0.04 min

Lab File: BG015934.D

Acq: 27 Jan 2015 6:51

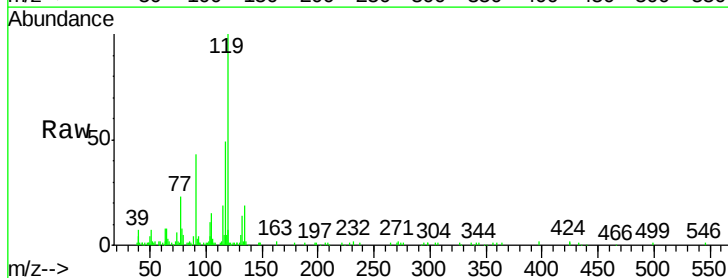
Tgt Ion: 117 Resp: 28989

Ion Ratio Lower Upper

117 100

119 205.8 80.2 120.2#

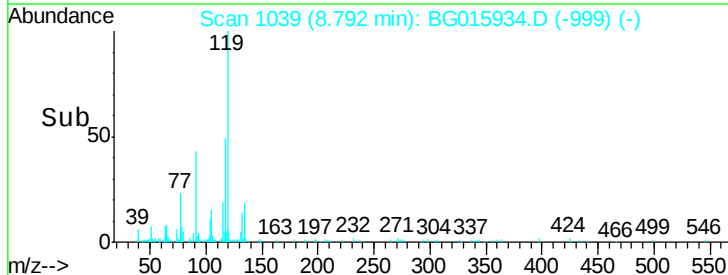
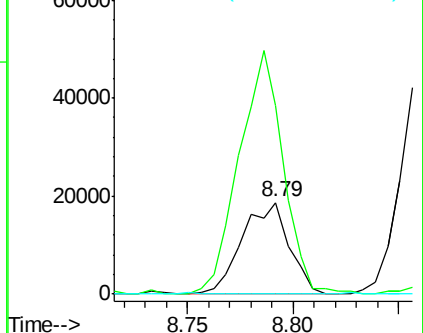
201 0.9 82.6 124.0#

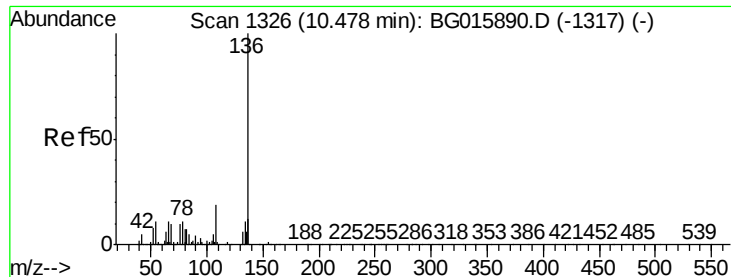


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E

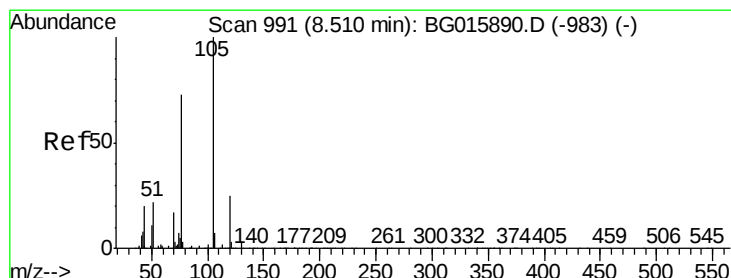
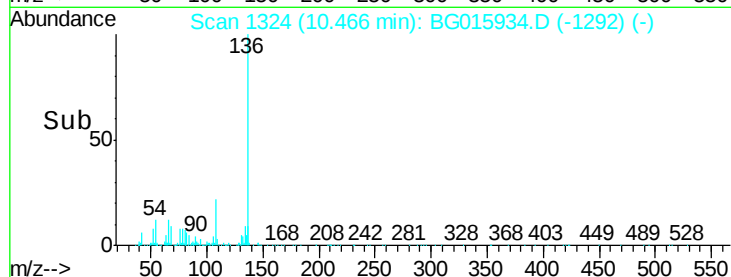
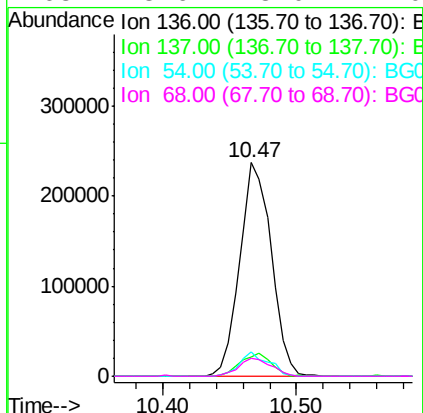
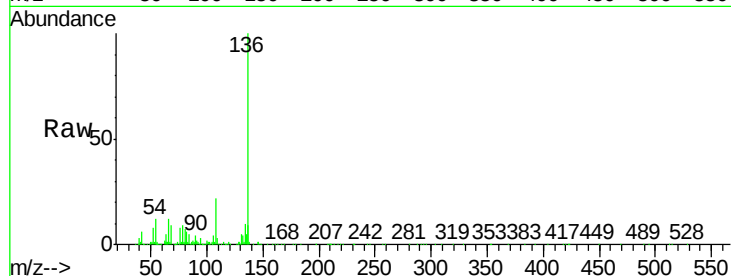




#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.47 min Scan# 1324  
Delta R.T. -0.01 min  
Lab File: BG015934.D  
Acq: 27 Jan 2015 6:51

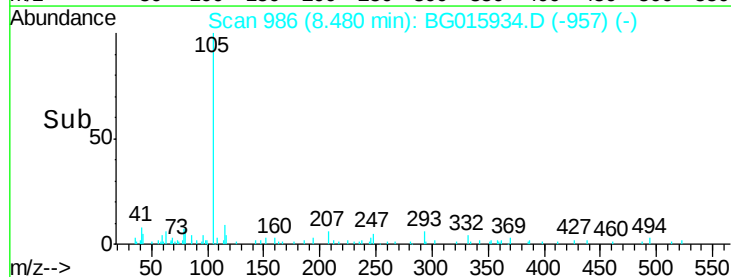
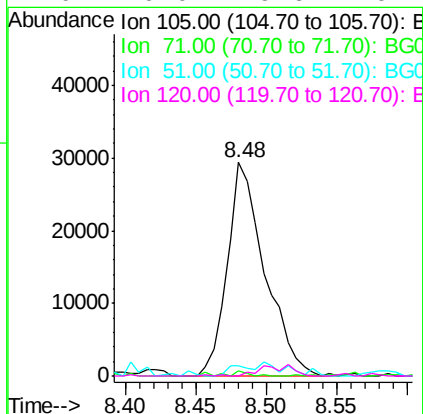
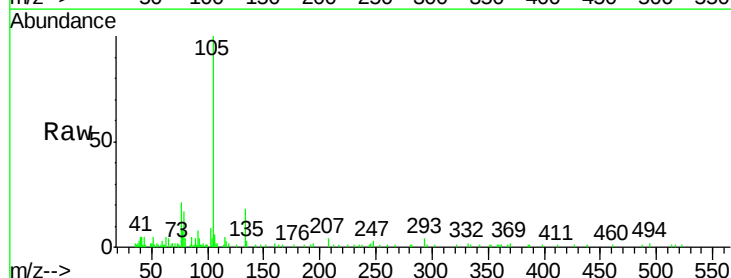
Instrument :  
BNA\_G  
ClientSampleId :  
121B2C

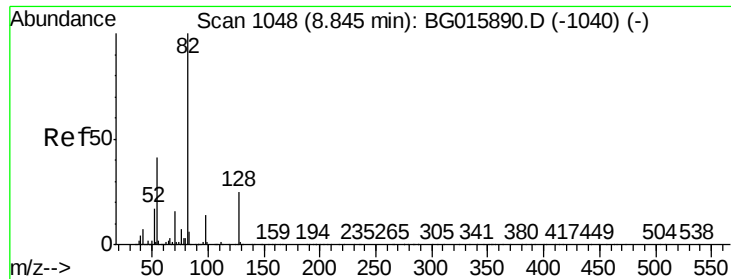
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 387160 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 8.8   | 9.7   | 14.5#  |
| 54        | 11.9  | 8.5   | 12.7   |
| 68        | 8.6   | 8.0   | 12.0   |



#22  
Acetophenone  
Concen: 4.20 ng  
RT: 8.48 min Scan# 986  
Delta R.T. -0.03 min  
Lab File: BG015934.D  
Acq: 27 Jan 2015 6:51

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 54462 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 71        | 2.4   | 2.4   | 3.6#  |
| 51        | 4.8   | 24.6  | 36.8# |
| 120       | 0.0   | 19.6  | 29.4# |

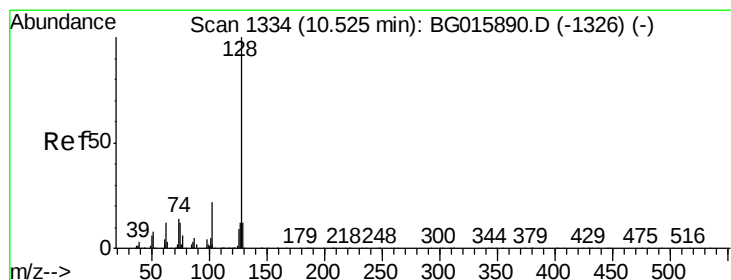
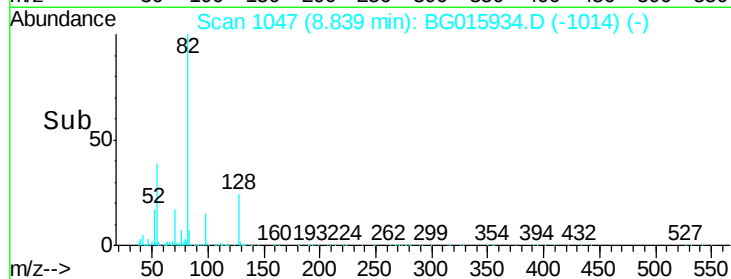
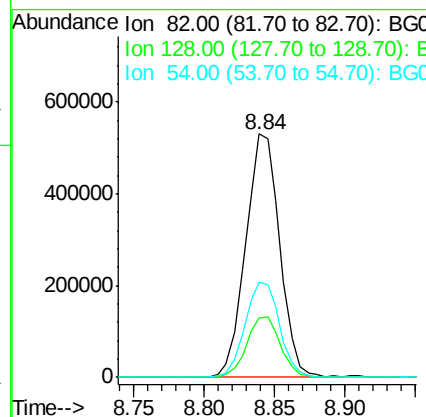
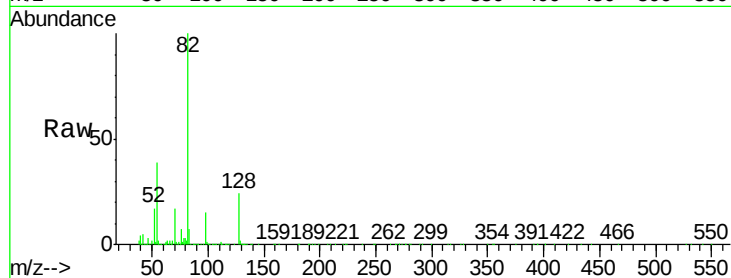




#23  
Nitrobenzene-d5  
Concen: 66.66 ng  
RT: 8.84 min Scan# 1047  
Delta R.T. -0.01 min  
Lab File: BG015934.D  
Acq: 27 Jan 2015 6:51

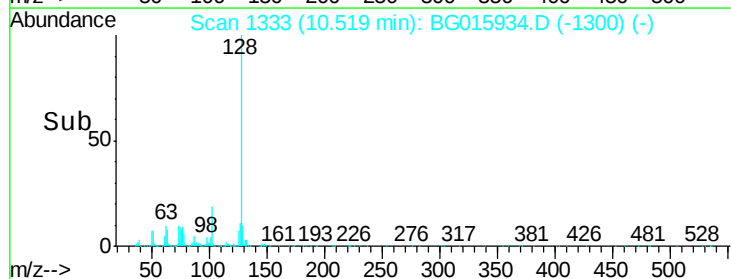
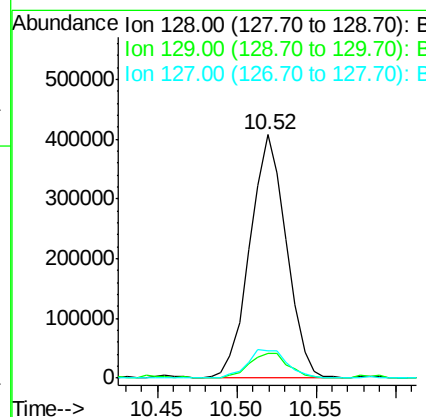
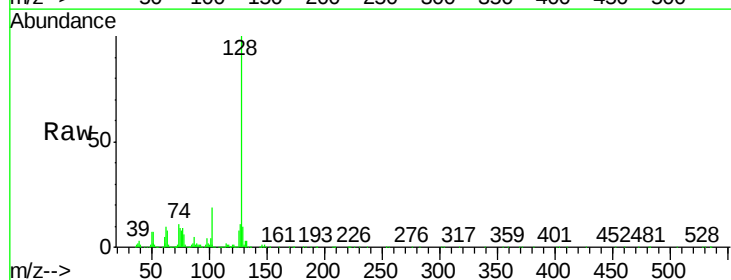
Instrument :  
BNA\_G  
ClientSampleId :  
121B2C

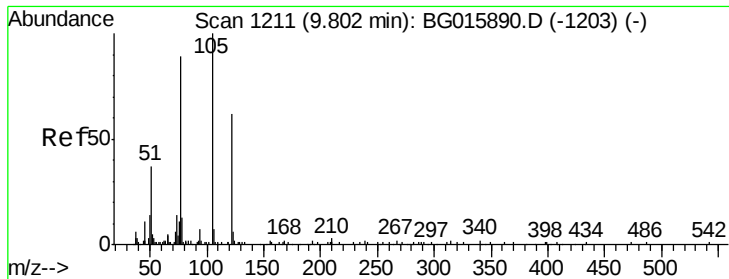
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 24.1  | 19.8  | 29.8  |
| 54      | 39.0  | 33.0  | 49.4  |



#31  
Naphthalene  
Concen: 32.65 ng  
RT: 10.52 min Scan# 1333  
Delta R.T. -0.01 min  
Lab File: BG015934.D  
Acq: 27 Jan 2015 6:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.1  | 9.7   | 14.5  |
| 127     | 11.5  | 9.8   | 14.6  |





#32

Benzoic acid

Concen: 10.29 ng

RT: 9.76 min Scan# 1203

Delta R.T. -0.05 min

Lab File: BG015934.D

Acq: 27 Jan 2015 6:51

Instrument :

BNA\_G

ClientSampled :

121B2C

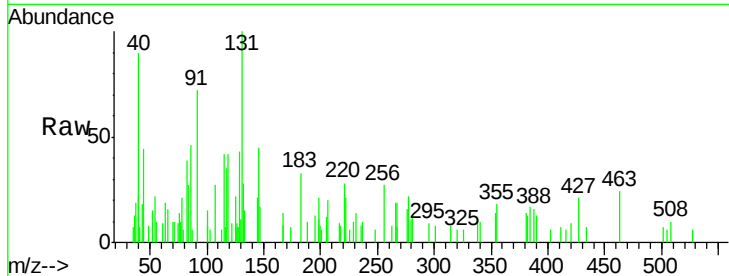
Tgt Ion:122 Resp: 85

Ion Ratio Lower Upper

122 100

105 0.0 140.2 180.2#

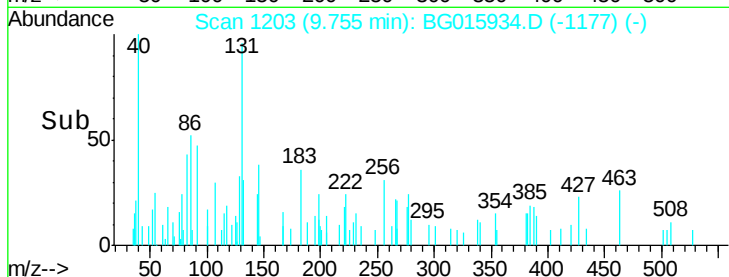
77 115.0 126.4 166.4#



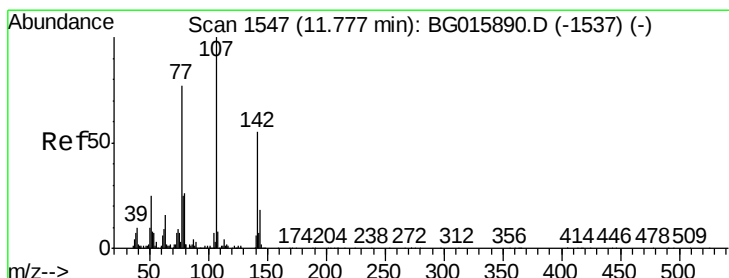
Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): B



Time-->



#36

4-Chloro-3-methylphenol

Concen: 2.84 ng

RT: 11.82 min Scan# 1555

Delta R.T. 0.05 min

Lab File: BG015934.D

Acq: 27 Jan 2015 6:51

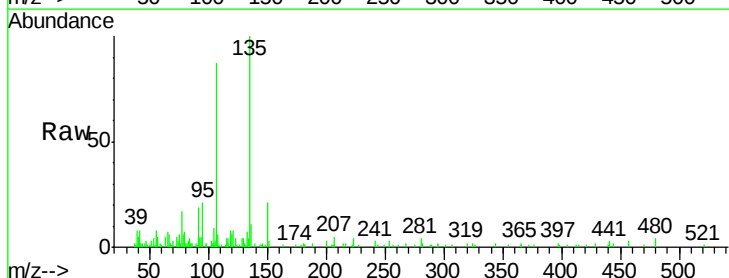
Tgt Ion:107 Resp: 29161

Ion Ratio Lower Upper

107 100

144 0.0 14.6 22.0#

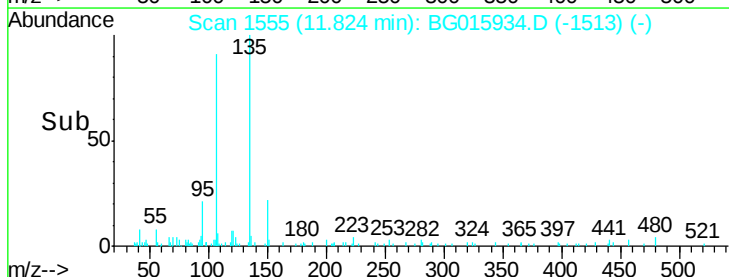
142 0.0 43.8 65.6#



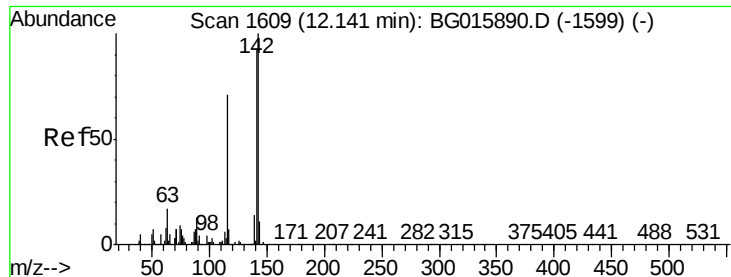
Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E



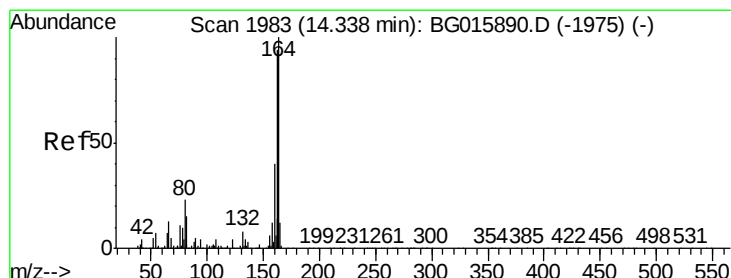
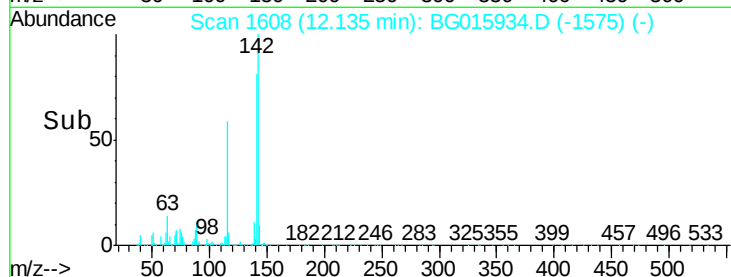
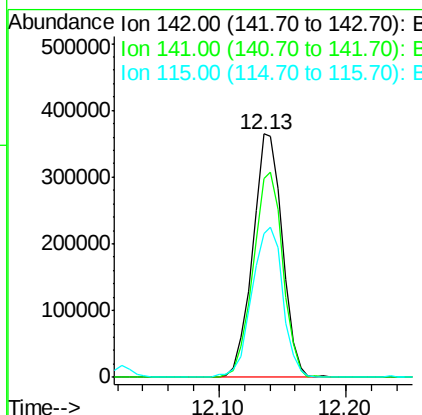
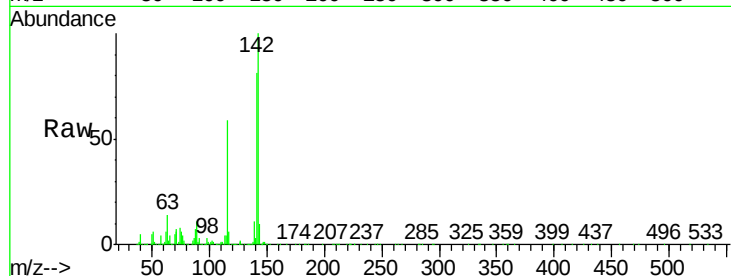
Time-->



#37  
2-Methylnaphthalene  
Concen: 37.70 ng  
RT: 12.13 min Scan# 1608  
Delta R.T. -0.01 min  
Lab File: BG015934.D  
Acq: 27 Jan 2015 6:51

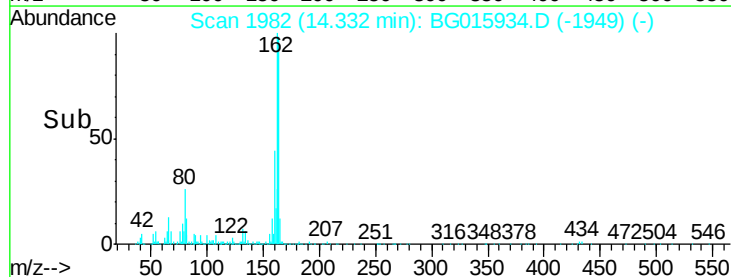
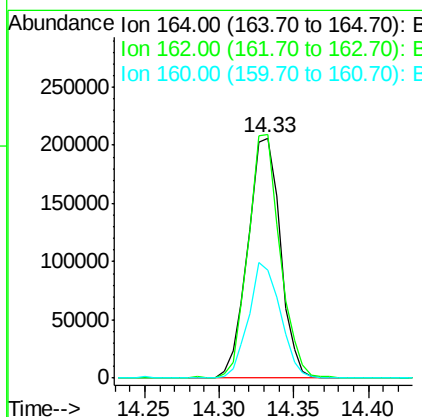
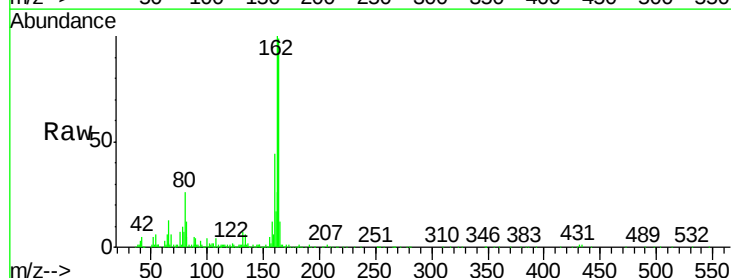
Instrument :  
BNA\_G  
ClientSampleId :  
121B2C

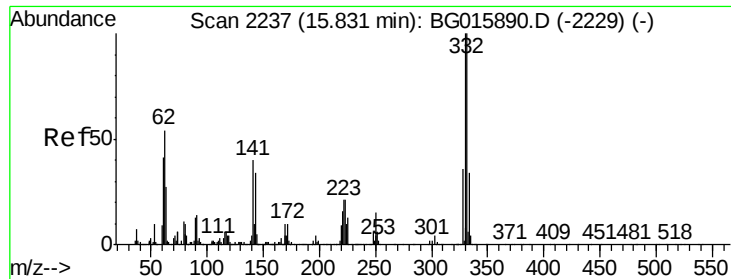
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 81.4  | 73.8  | 110.8 |
| 115     | 59.2  | 56.6  | 84.8  |



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.33 min Scan# 1982  
Delta R.T. -0.01 min  
Lab File: BG015934.D  
Acq: 27 Jan 2015 6:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.5 | 75.1  | 112.7 |
| 160     | 45.0  | 32.3  | 48.5  |

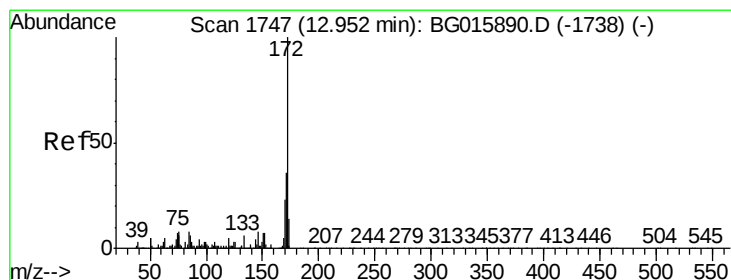
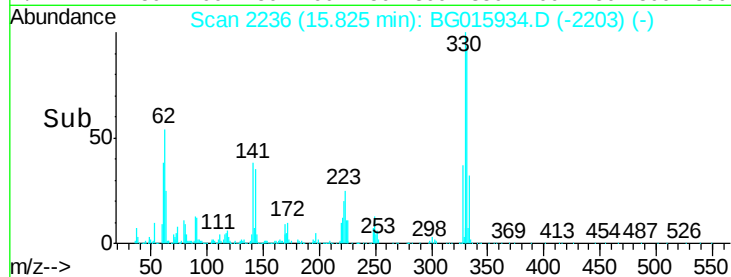
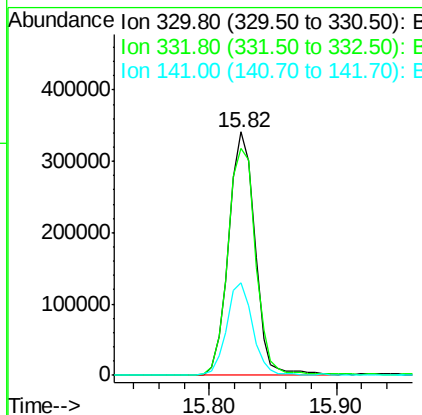
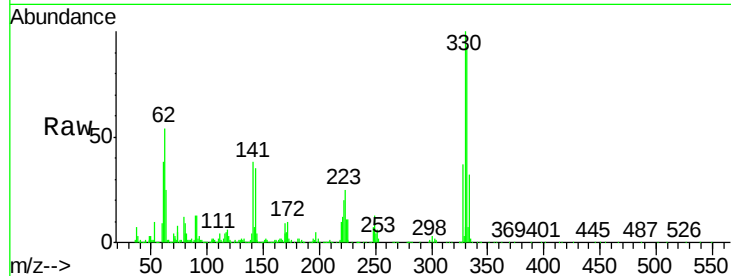




#41  
 2,4,6-Tribromophenol  
 Concen: 86.41 ng  
 RT: 15.82 min Scan# 2236  
 Delta R.T. -0.01 min  
 Lab File: BG015934.D  
 Acq: 27 Jan 2015 6:51

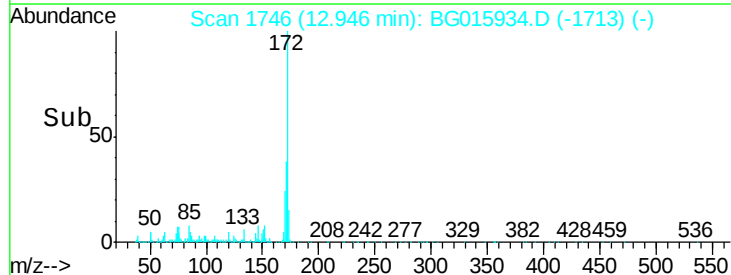
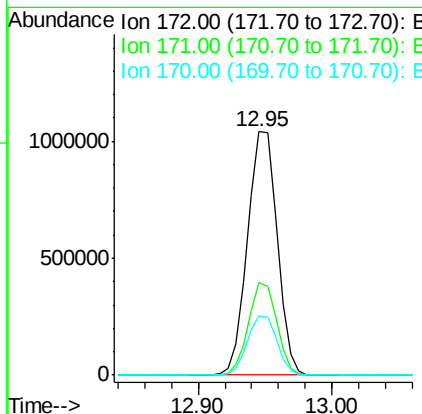
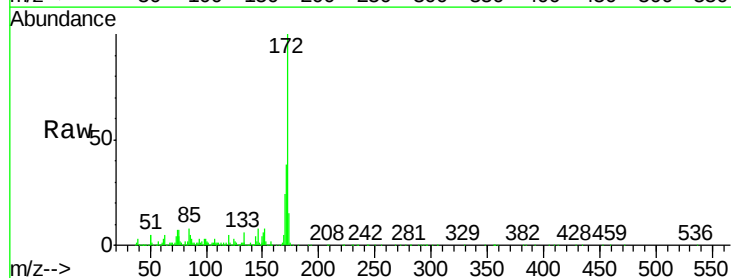
Instrument :  
 BNA\_G  
 ClientSampleId :  
 121B2C

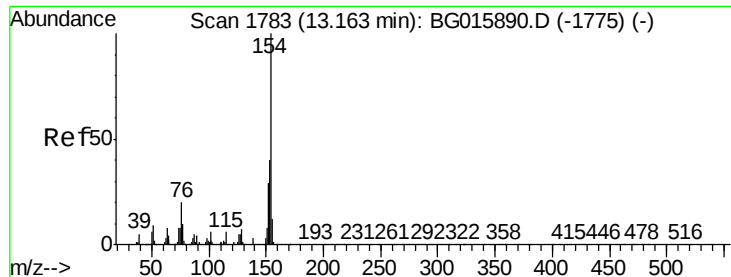
Tgt Ion:330 Resp: 490071  
 Ion Ratio Lower Upper  
 330 100  
 332 98.7 75.4 113.0  
 141 36.9 33.0 49.6



#44  
 2-Fluorobiphenyl  
 Concen: 80.72 ng  
 RT: 12.95 min Scan# 1746  
 Delta R.T. -0.01 min  
 Lab File: BG015934.D  
 Acq: 27 Jan 2015 6:51

Tgt Ion:172 Resp: 1593934  
 Ion Ratio Lower Upper  
 172 100  
 171 37.8 29.2 43.8  
 170 24.3 18.6 27.8

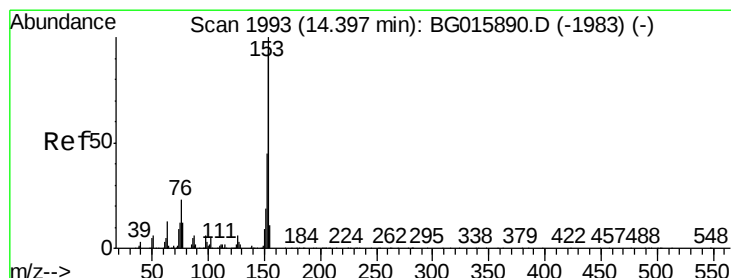
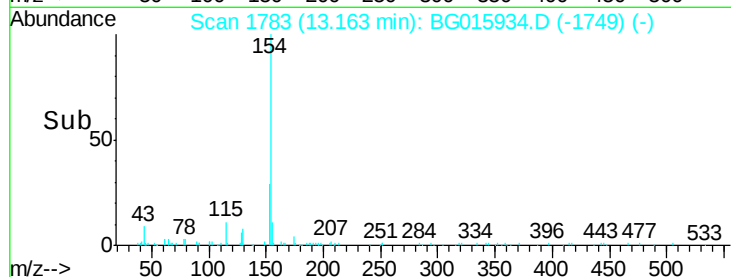
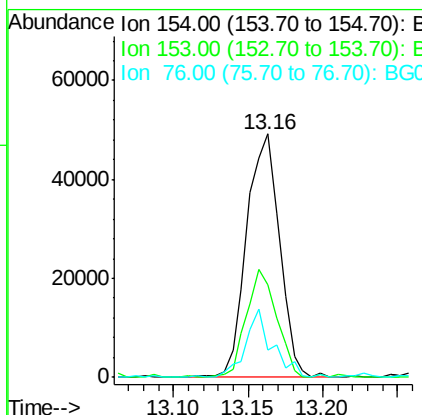
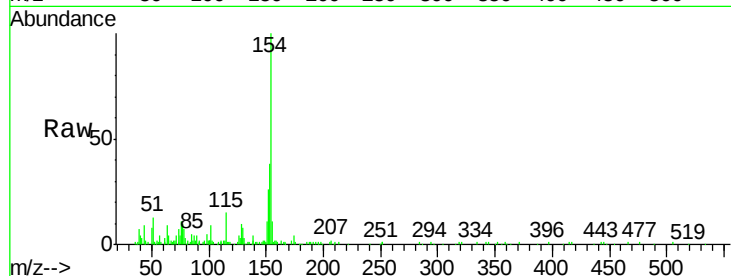




#45  
 1,1'-Biphenyl  
 Concen: 3.82 ng  
 RT: 13.16 min Scan# 1783  
 Delta R.T. 0.00 min  
 Lab File: BG015934.D  
 Acq: 27 Jan 2015 6:51

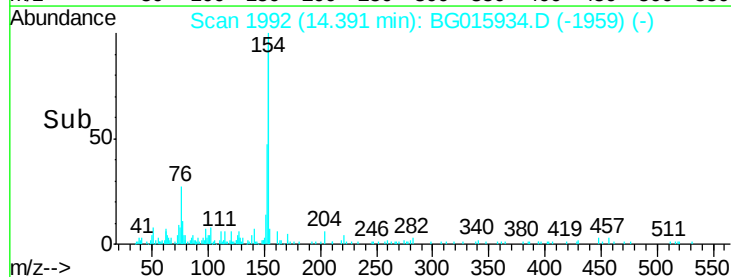
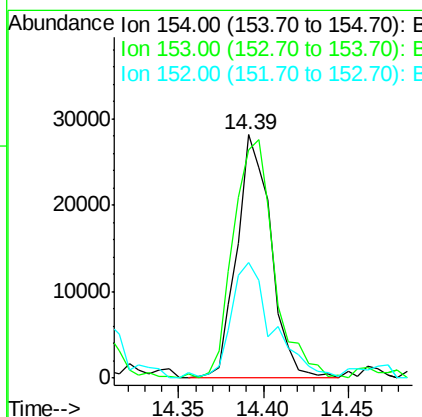
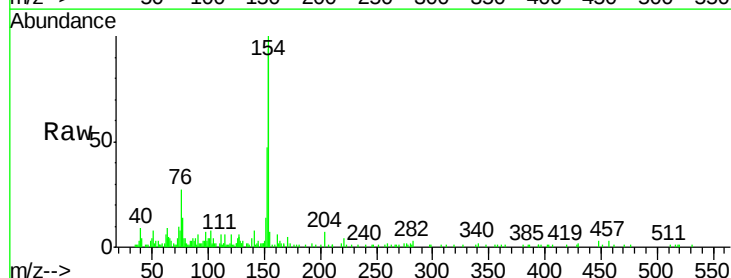
Instrument :  
 BNA\_G  
 ClientSampleId :  
 121B2C

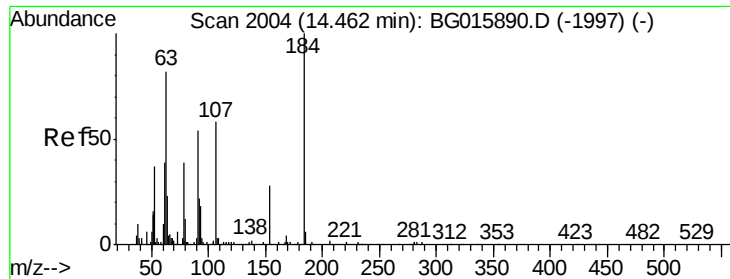
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 38.2  | 20.4  | 60.4  |
| 76      | 11.0  | 0.2   | 40.2  |



#51  
 Acenaphthene  
 Concen: 2.53 ng  
 RT: 14.39 min Scan# 1992  
 Delta R.T. -0.01 min  
 Lab File: BG015934.D  
 Acq: 27 Jan 2015 6:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 93.9  | 85.1  | 127.7 |
| 152     | 47.5  | 38.3  | 57.5  |

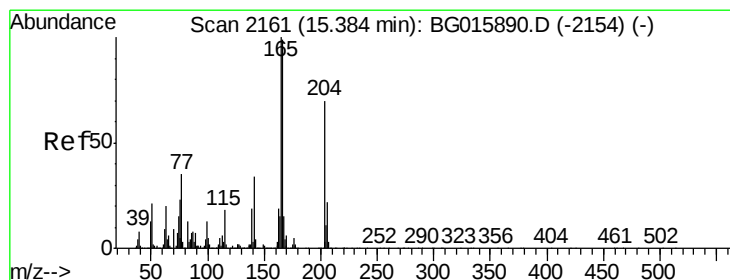
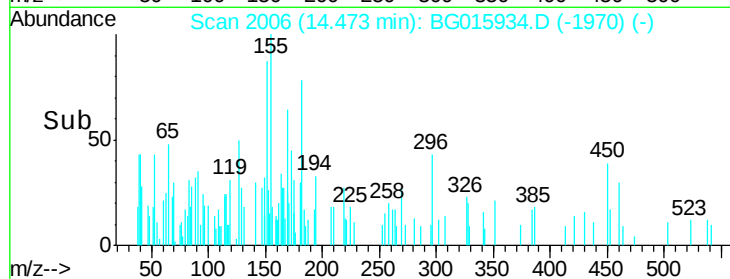
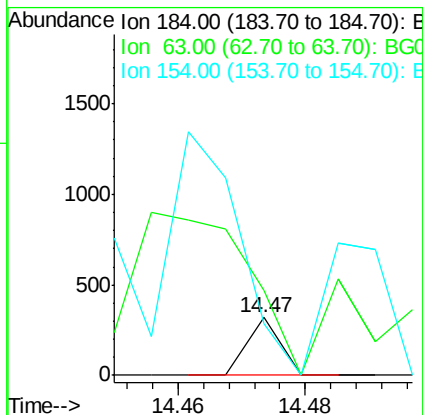
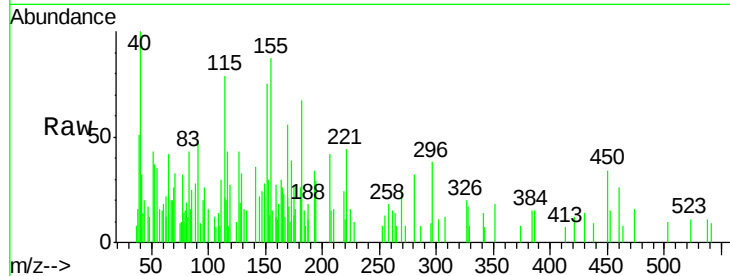




#53  
2,4-Dinitrophenol  
Concen: 4.54 ng  
RT: 14.47 min Scan# 2006  
Delta R.T. 0.01 min  
Lab File: BG015934.D  
Acq: 27 Jan 2015 6:51

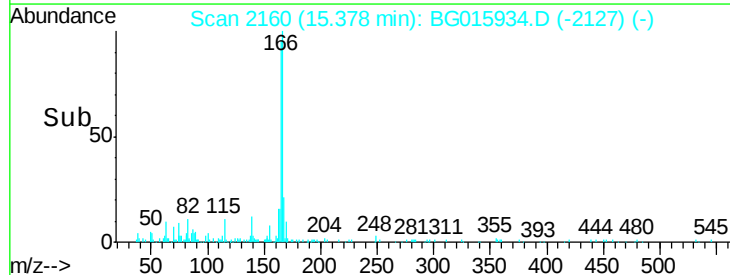
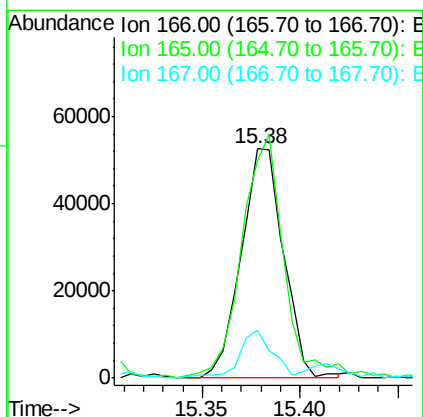
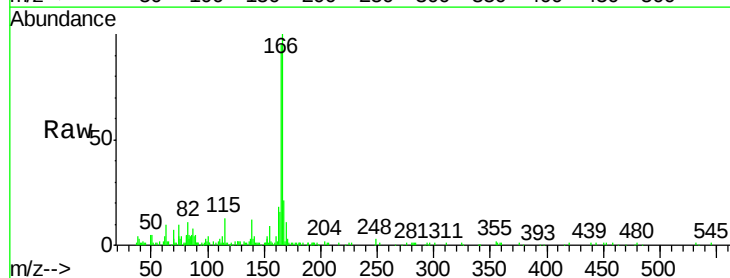
Instrument :  
BNA\_G  
ClientSampleId :  
121B2C

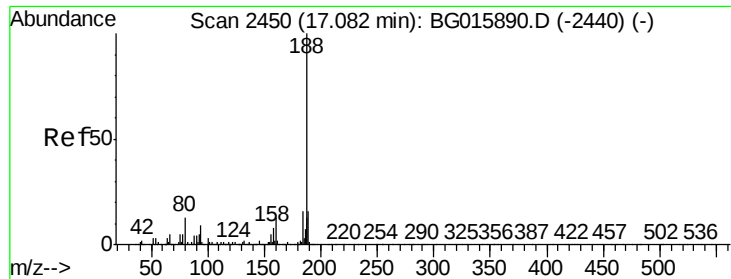
Tgt Ion:184 Resp: 112  
Ion Ratio Lower Upper  
184 100  
63 146.1 68.6 103.0#  
154 88.4 54.9 82.3#



#57  
Fluorene  
Concen: 3.38 ng  
RT: 15.38 min Scan# 2160  
Delta R.T. -0.01 min  
Lab File: BG015934.D  
Acq: 27 Jan 2015 6:51

Tgt Ion:166 Resp: 79299  
Ion Ratio Lower Upper  
166 100  
165 94.8 80.6 120.8  
167 20.7 12.5 18.7#

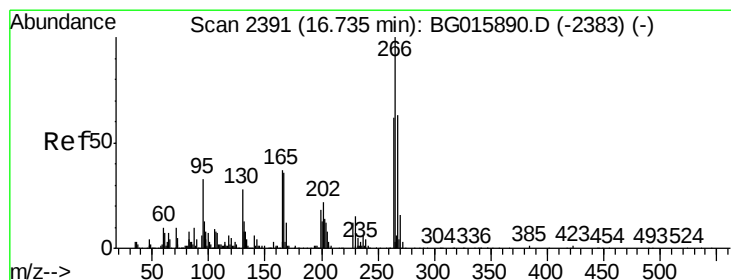
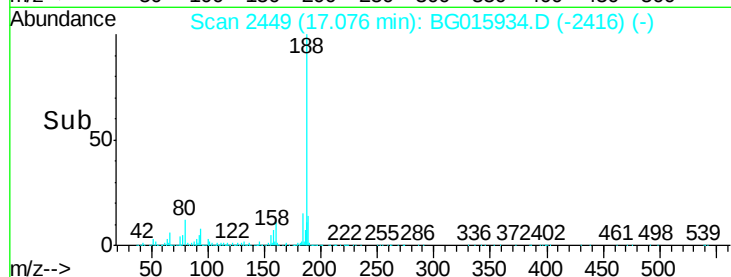
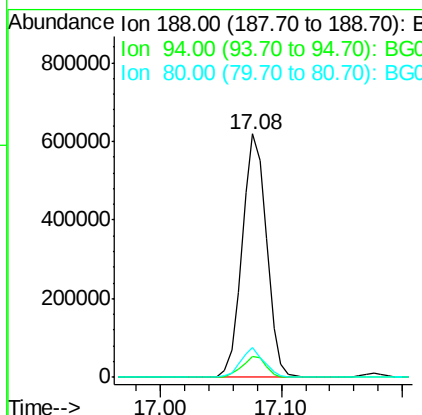
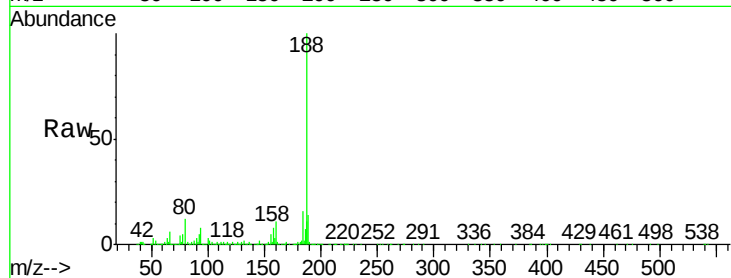




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.08 min Scan# 2449  
Delta R.T. -0.01 min  
Lab File: BG015934.D  
Acq: 27 Jan 2015 6:51

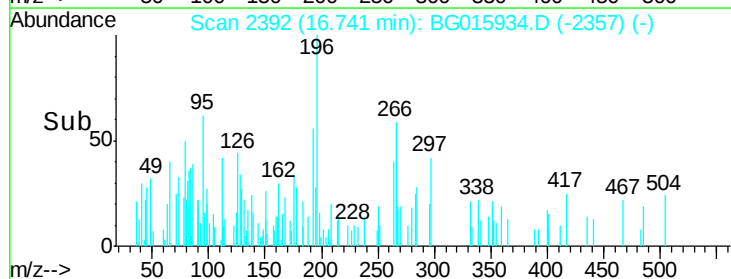
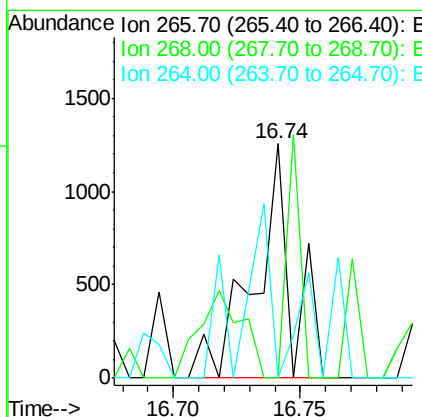
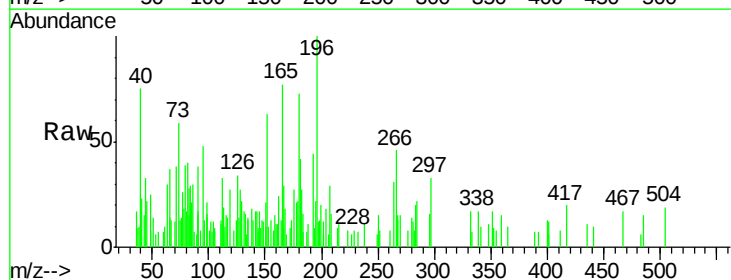
Instrument :  
BNA\_G  
ClientSampleId :  
121B2C

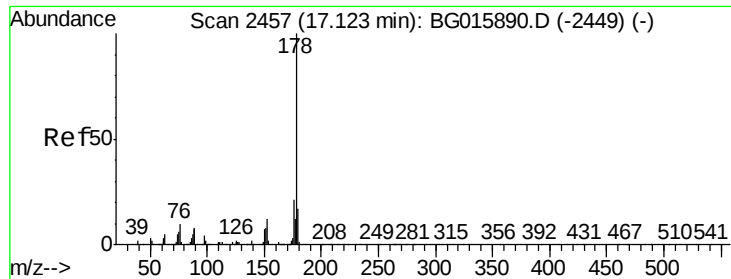
Tgt Ion:188 Resp: 872672  
Ion Ratio Lower Upper  
188 100  
94 8.4 7.8 11.8  
80 12.3 10.6 16.0



#69  
Pentachlorophenol  
Concen: 5.44 ng  
RT: 16.74 min Scan# 2392  
Delta R.T. 0.01 min  
Lab File: BG015934.D  
Acq: 27 Jan 2015 6:51

Tgt Ion:266 Resp: 1285  
Ion Ratio Lower Upper  
266 100  
268 0.0 53.5 80.3#  
264 0.0 51.9 77.9#





#70

Phenanthrene

Concen: 3.96 ng

RT: 17.12 min Scan# 2456

Delta R.T. -0.01 min

Lab File: BG015934.D

Acq: 27 Jan 2015 6:51

Instrument :

BNA\_G

ClientSampleId :

121B2C

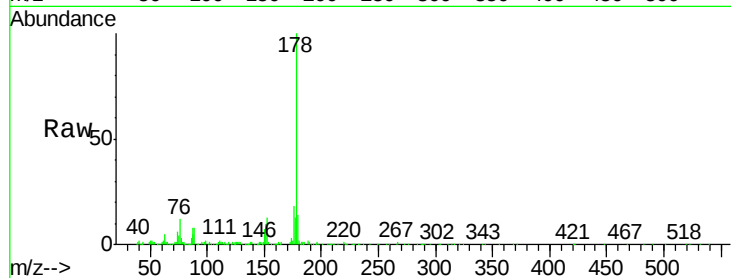
Tgt Ion:178 Resp: 173594

Ion Ratio Lower Upper

178 100

176 17.9 16.9 25.3

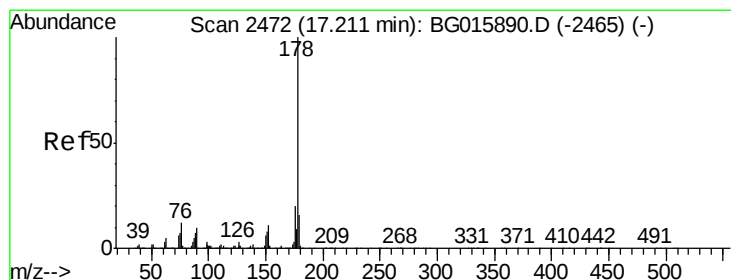
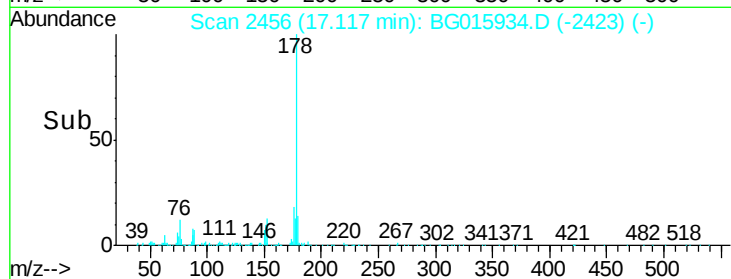
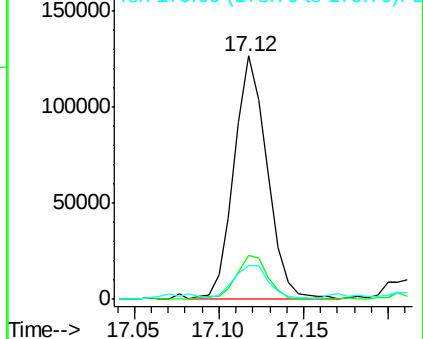
179 13.7 13.3 19.9



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: 4.04 ng

RT: 17.12 min Scan# 2456

Delta R.T. -0.09 min

Lab File: BG015934.D

Acq: 27 Jan 2015 6:51

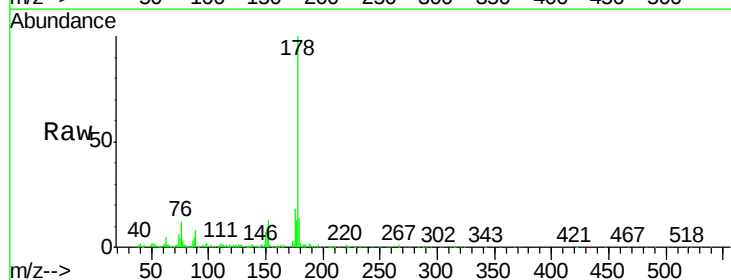
Tgt Ion:178 Resp: 173594

Ion Ratio Lower Upper

178 100

176 17.9 15.7 23.5

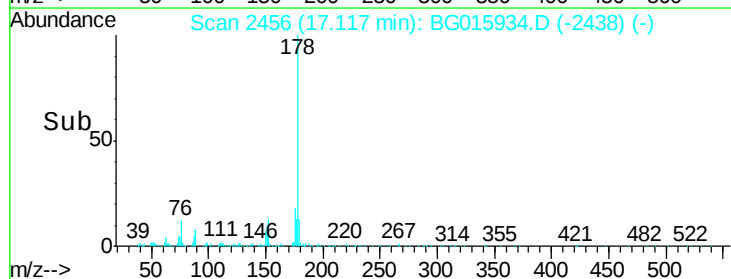
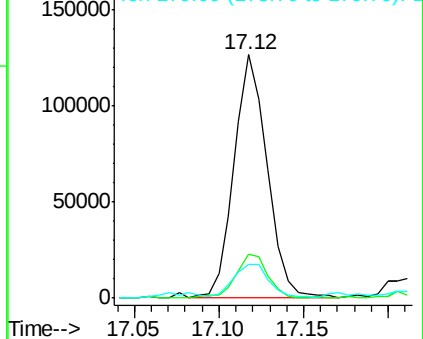
179 13.7 12.7 19.1

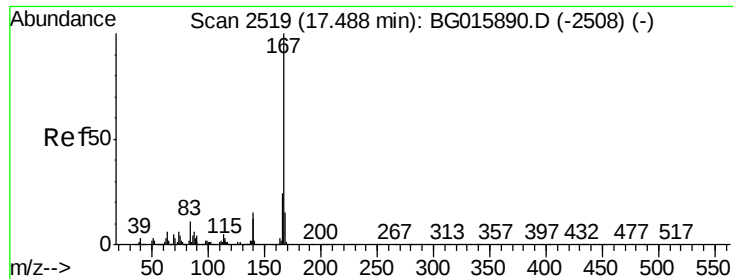


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.21 ng

RT: 17.49 min Scan# 2519

Delta R.T. 0.00 min

Lab File: BG015934.D

Acq: 27 Jan 2015 6:51

Instrument :

BNA\_G

ClientSampleId :

121B2C

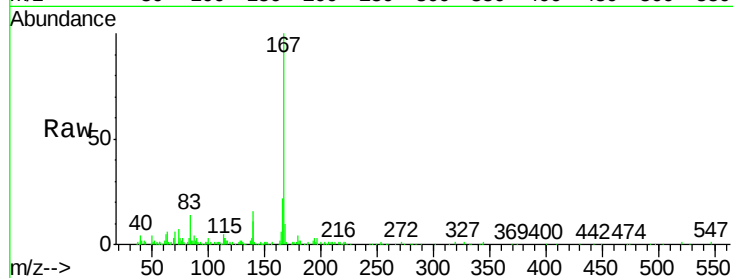
Tgt Ion:167 Resp: 121549

Ion Ratio Lower Upper

167 100

166 21.9 19.4 29.2

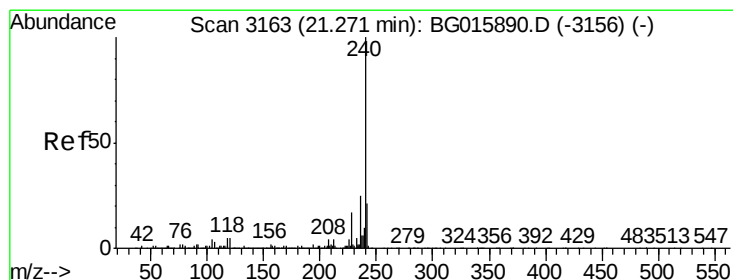
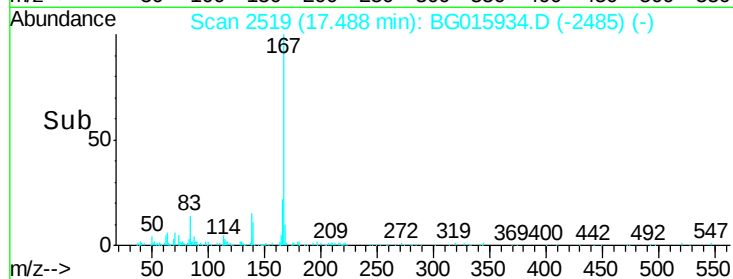
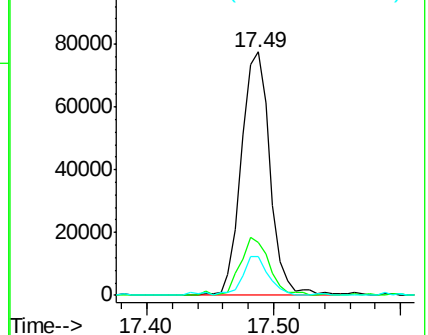
139 16.1 12.2 18.2



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.27 min Scan# 3162

Delta R.T. -0.01 min

Lab File: BG015934.D

Acq: 27 Jan 2015 6:51

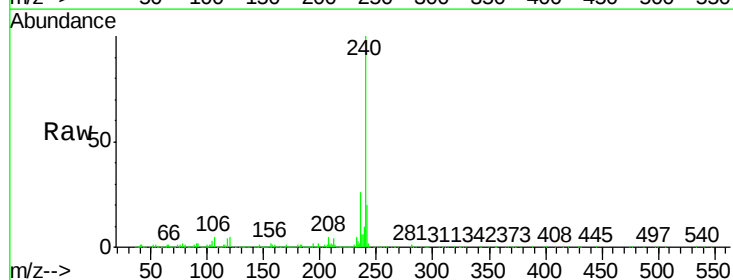
Tgt Ion:240 Resp: 1239220

Ion Ratio Lower Upper

240 100

120 5.3 3.9 5.9

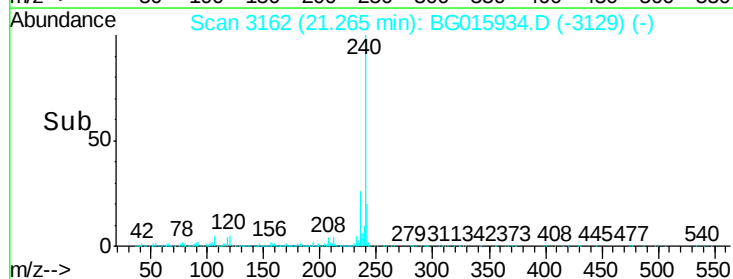
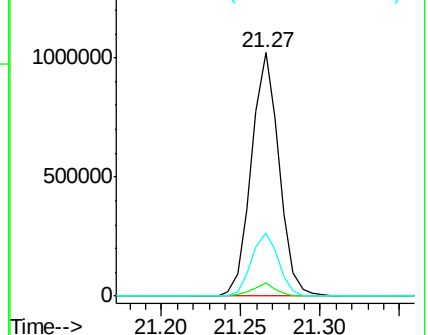
236 26.1 20.0 30.0

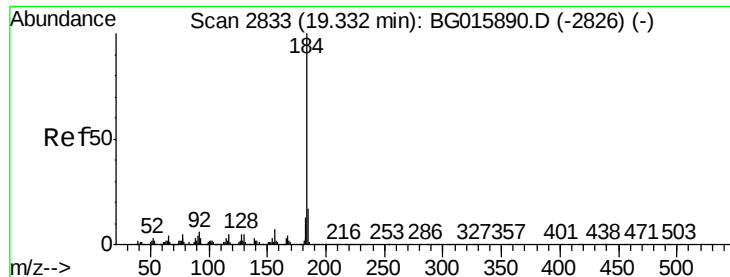


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 2.00 ng

RT: 19.33 min Scan# 2832

Delta R.T. -0.01 min

Lab File: BG015934.D

Acq: 27 Jan 2015 6:51

Instrument :

BNA\_G

ClientSampled :

121B2C

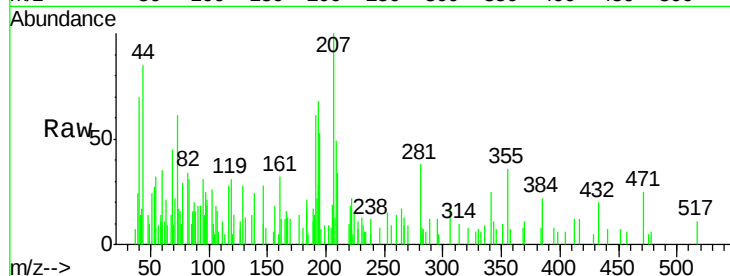
Tgt Ion:184 Resp: 473

Ion Ratio Lower Upper

184 100

185 23.0 13.3 19.9#

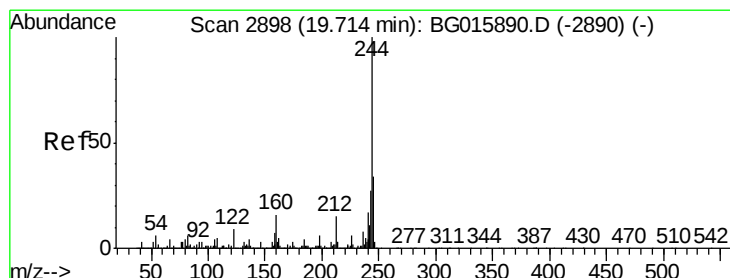
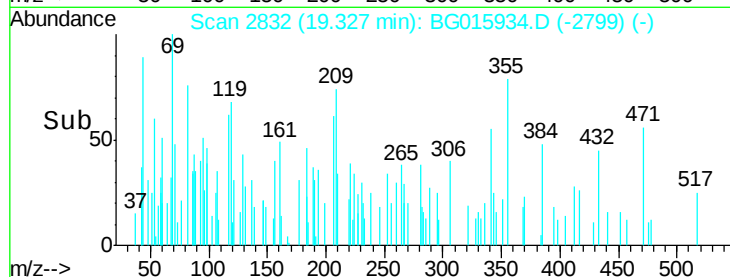
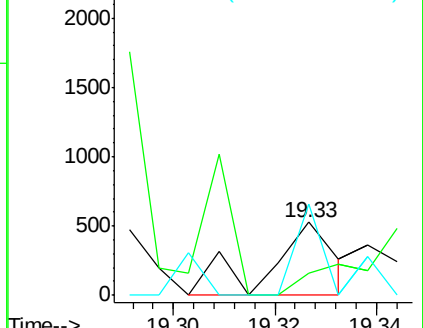
183 95.9 10.1 15.1#



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: 65.98 ng

RT: 19.71 min Scan# 2898

Delta R.T. 0.00 min

Lab File: BG015934.D

Acq: 27 Jan 2015 6:51

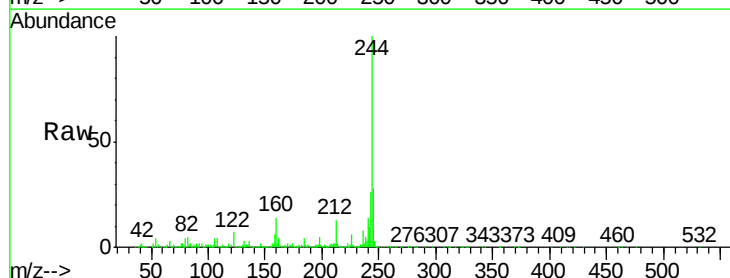
Tgt Ion:244 Resp: 3109511

Ion Ratio Lower Upper

244 100

212 12.5 11.6 17.4

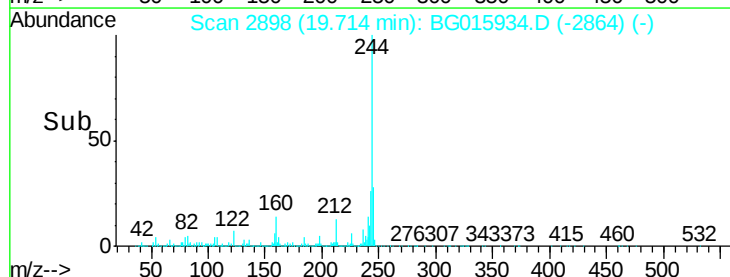
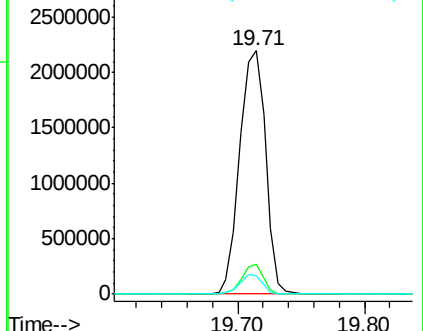
122 7.3 7.0 10.4

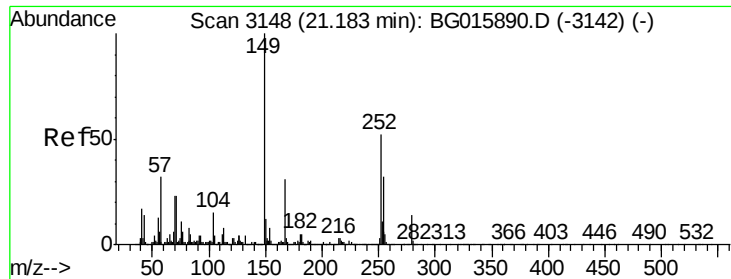


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 6.18 ng

RT: 21.18 min Scan# 3148

Delta R.T. 0.00 min

Lab File: BG015934.D

Acq: 27 Jan 2015 6:51

Instrument :

BNA\_G

ClientSampleId :

121B2C

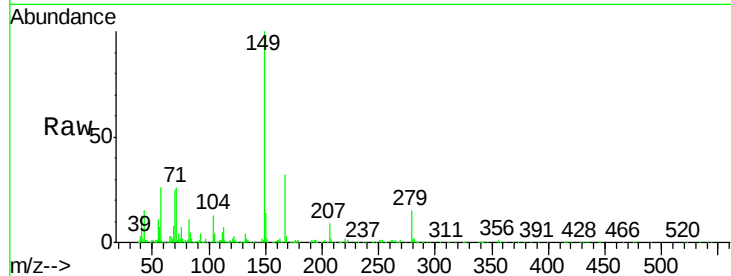
Tgt Ion:149 Resp: 179429

Ion Ratio Lower Upper

149 100

167 32.4 25.1 37.7

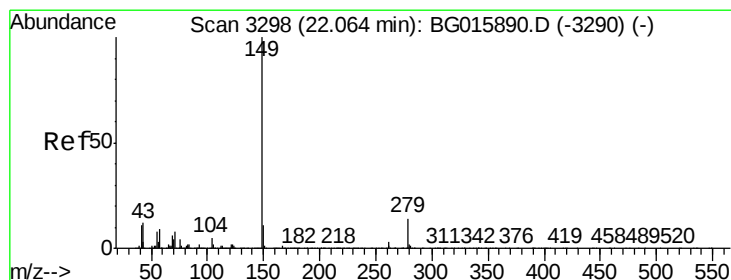
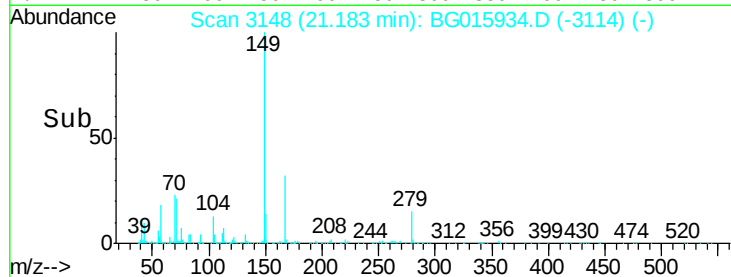
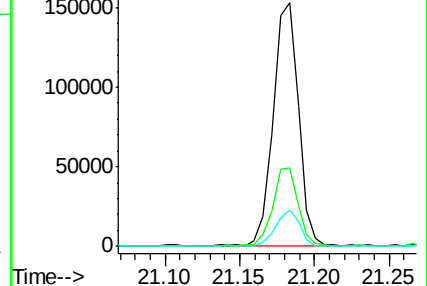
279 15.0 11.2 16.8



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#84

Di-n-octyl phthalate

Concen: 5.36 ng

RT: 22.11 min Scan# 3306

Delta R.T. 0.05 min

Lab File: BG015934.D

Acq: 27 Jan 2015 6:51

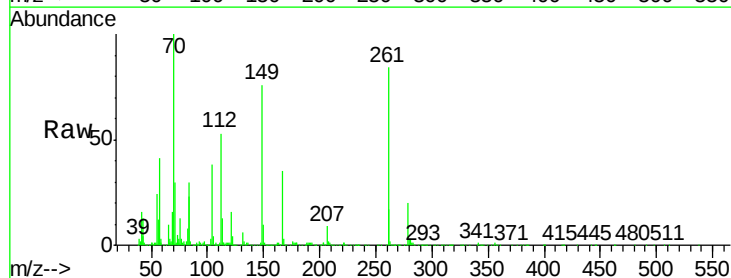
Tgt Ion:149 Resp: 240759

Ion Ratio Lower Upper

149 100

167 48.6 1.4 2.0#

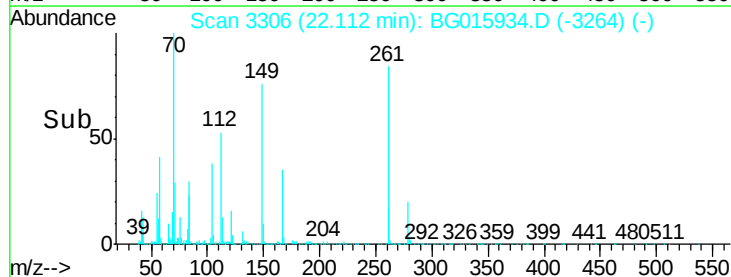
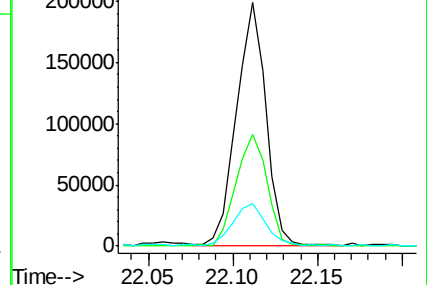
43 19.2 9.2 13.8#

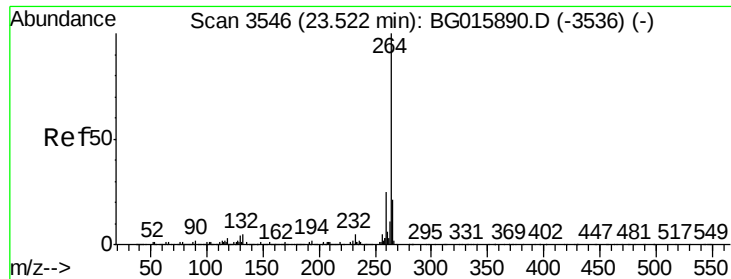


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BGC





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.52 min Scan# 3546  
Delta R.T. 0.00 min  
Lab File: BG015934.D  
Acq: 27 Jan 2015 6:51

Instrument :  
BNA\_G  
ClientSampleId :  
121B2C

Tgt Ion:264 Resp: 1155998  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.1  | 19.7  | 29.5  |
| 265 | 19.9  | 17.3  | 25.9  |

