

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG042115\  
 Data File : BG016597.D  
 Acq On : 21 Apr 2015 23:17  
 Operator : TP/IZ  
 Sample : PB82889BL  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB82889BL

Quant Time: Apr 22 04:46:49 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG042115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Apr 22 02:10:07 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.64  | 152  | 62519    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.42 | 136  | 243498   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 14.28 | 164  | 131248   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.02 | 188  | 279311   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.20 | 240  | 275195   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 23.42 | 264  | 256993   | 20.00 | ng    | 0.00     |

|                             |       |     |        |        |    |      |
|-----------------------------|-------|-----|--------|--------|----|------|
| System Monitoring Compounds |       |     |        |        |    |      |
| 5) 2-Fluorophenol           | 5.23  | 112 | 485857 | 124.55 | ng | 0.00 |
| 7) Phenol-d6                | 6.83  | 99  | 634818 | 116.48 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 8.80  | 82  | 321586 | 81.32  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol    | 15.78 | 330 | 110154 | 123.57 | ng | 0.00 |
| 44) 2-Fluorobiphenyl        | 12.90 | 172 | 695561 | 87.77  | ng | 0.00 |
| 78) Terphenyl-d14           | 19.65 | 244 | 903659 | 79.11  | ng | 0.00 |

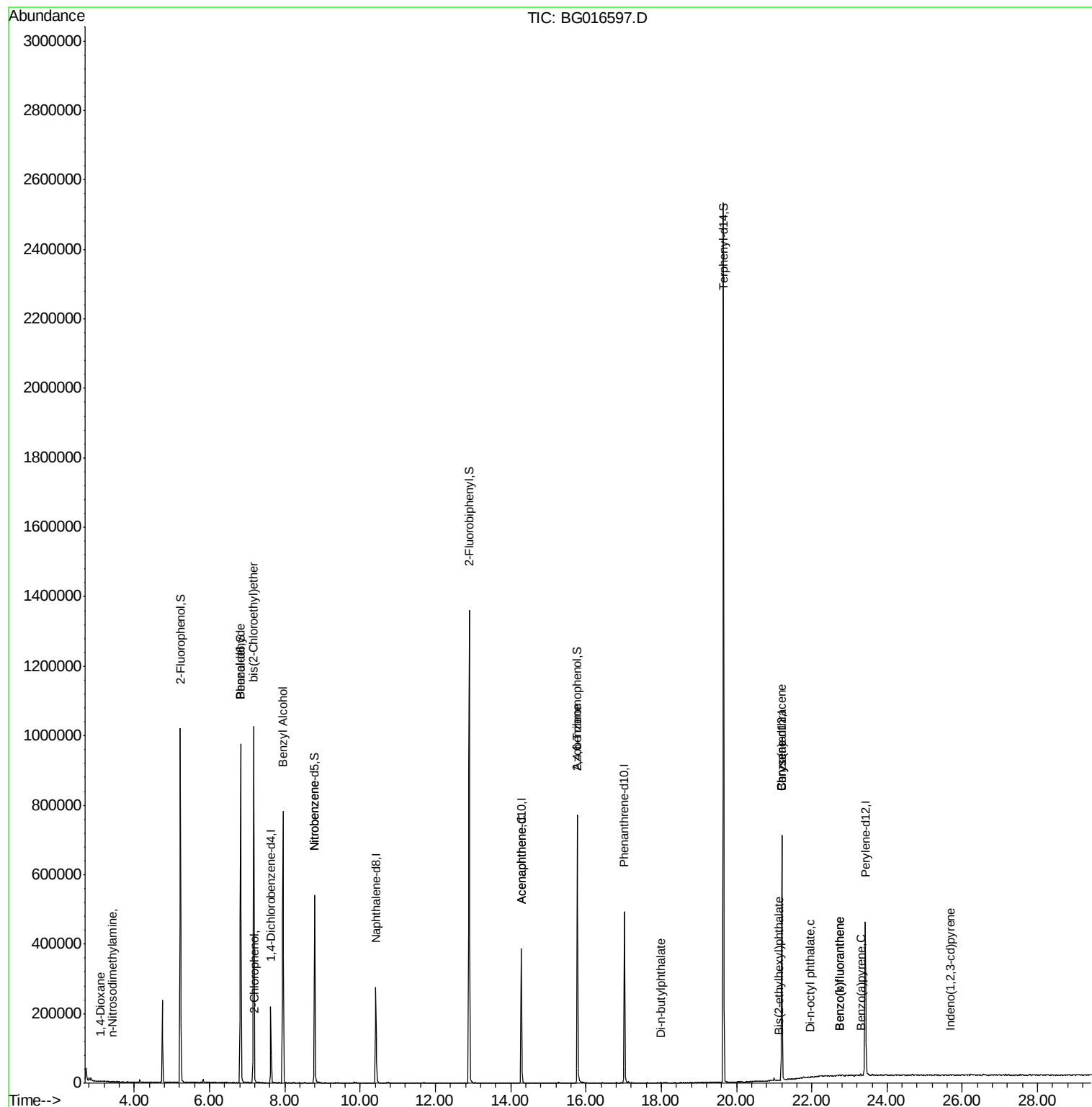
|                                |       |     |      |      |    |        |
|--------------------------------|-------|-----|------|------|----|--------|
| Target Compounds               |       |     |      |      |    | Qvalue |
| 2) 1,4-Dioxane                 | 3.11  | 88  | 140  | 0.08 | ng | # 1    |
| 4) n-Nitrosodimethylamine      | 3.43  | 42  | 61   | 0.04 | ng | # 1    |
| 8) 2-Chlorophenol              | 7.20  | 128 | 61   | 0.01 | ng | # 1    |
| 9) Benzaldehyde                | 6.83  | 77  | 592  | 0.24 | ng | # 1    |
| 11) bis(2-Chloroethyl)ether    | 7.17  | 93  | 728  | 0.16 | ng | # 1    |
| 15) Benzyl Alcohol             | 7.95  | 79  | 4942 | 1.43 | ng | # 28   |
| 24) Nitrobenzene               | 8.79  | 77  | 879  | 0.21 | ng | # 31   |
| 51) Acenaphthene               | 14.28 | 154 | 446  | 0.05 | ng | # 6    |
| 62) Azobenzene                 | 15.77 | 77  | 1013 | 0.11 | ng | # 11   |
| 73) Di-n-butylphthalate        | 18.01 | 149 | 282  | 0.01 | ng | # 77   |
| 80) Benzo(a)anthracene         | 21.20 | 228 | 797  | 0.05 | ng | # 60   |
| 82) Chrysene                   | 21.20 | 228 | 797  | 0.05 | ng | # 56   |
| 83) Bis(2-ethylhexyl)phthalate | 21.13 | 149 | 689  | 0.05 | ng | # 48   |
| 84) Di-n-octyl phthalate       | 21.97 | 149 | 555  | 0.03 | ng | # 61   |
| 85) Indeno(1,2,3-cd)pyrene     | 25.69 | 276 | 55   | 0.00 | ng | # 35   |
| 87) Benzo(b)fluoranthene       | 22.76 | 252 | 59   | 0.00 | ng | # 55   |
| 88) Benzo(k)fluoranthene       | 22.76 | 252 | 59   | 0.00 | ng | # 54   |
| 89) Benzo(a)pyrene             | 23.32 | 252 | 62   | 0.00 | ng | # 54   |

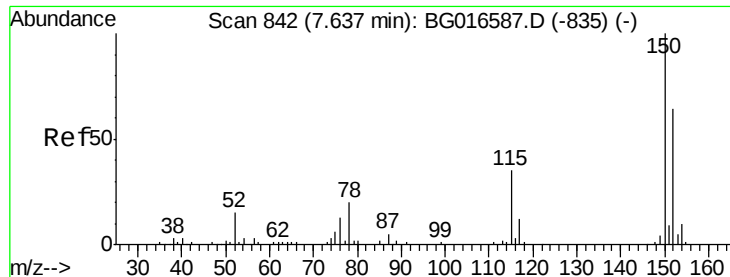
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG042115\  
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Misc :  
ALS Vial : 15 Sample Multiplier: 1

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BNA\_G  
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Quant Time: Apr 22 04:46:49 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG042115.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Apr 22 02:10:07 2015  
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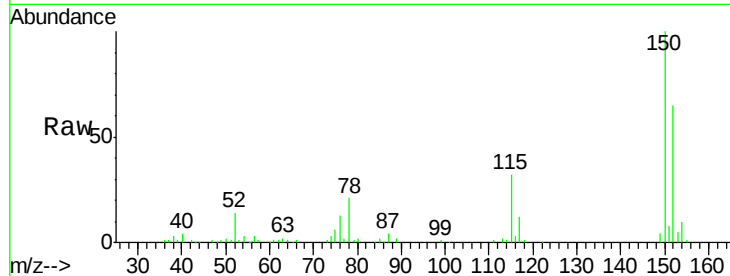


#1

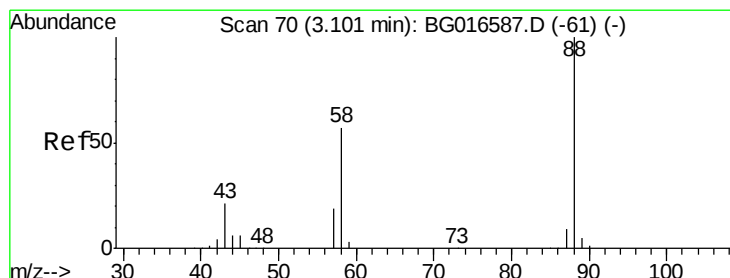
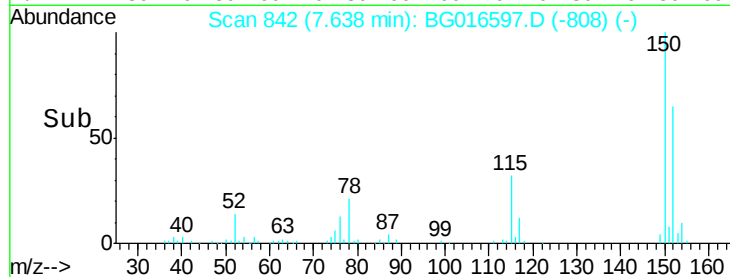
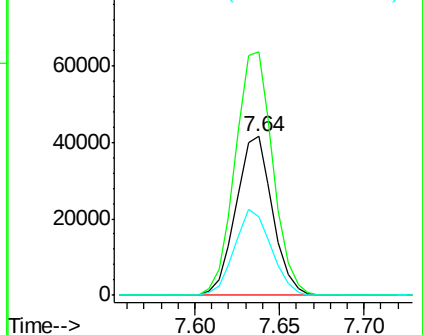
1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.64 min Scan# 842  
 Delta R.T. 0.00 min  
 Lab File: BG016597.D  
 Acq: 21 Apr 2015 23:17

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB82889BL

Tgt Ion:152 Resp: 62519  
 Ion Ratio Lower Upper  
 152 100  
 150 153.2 125.5 188.3  
 115 49.5 44.5 66.7



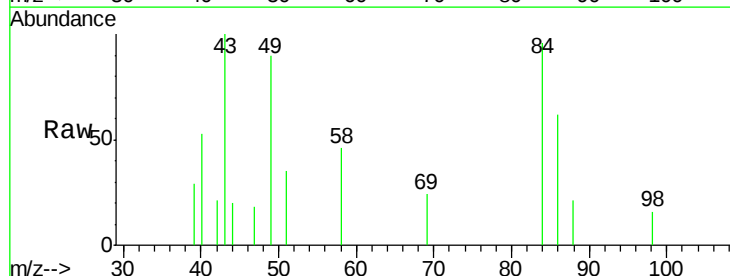
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



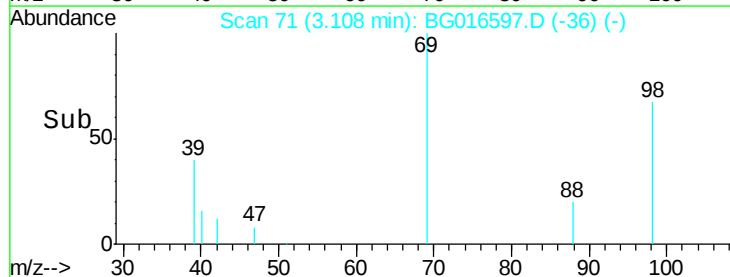
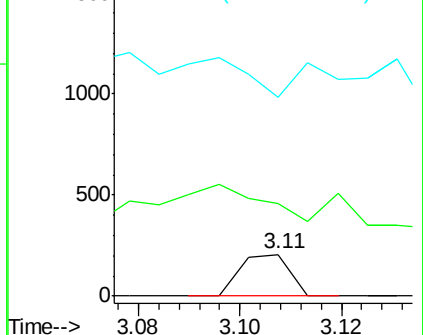
#2

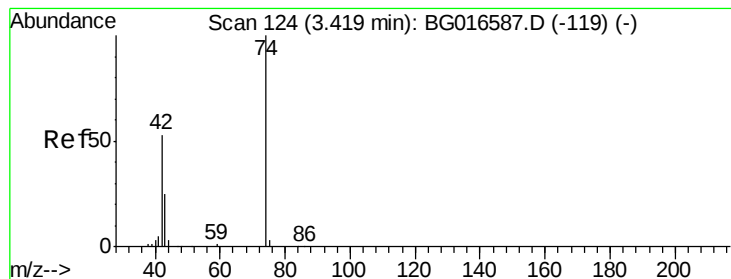
1,4-Dioxane  
 Concen: 0.08 ng  
 RT: 3.11 min Scan# 71  
 Delta R.T. 0.01 min  
 Lab File: BG016597.D  
 Acq: 21 Apr 2015 23:17

Tgt Ion: 88 Resp: 140  
 Ion Ratio Lower Upper  
 88 100  
 58 199.3 46.0 69.0#  
 43 0.0 16.2 24.4#



Abundance Ion 88.00 (87.70 to 88.70): BGC  
 Ion 58.00 (57.70 to 58.70): BGC  
 Ion 43.00 (42.70 to 43.70): BGC





#4

n-Nitrosodimethylamine

Concen: 0.04 ng

RT: 3.43 min Scan# 126

Delta R.T. 0.01 min

Lab File: BG016597.D

Acq: 21 Apr 2015 23:17

Instrument :

BNA\_G

ClientSampleId :

PB82889BL

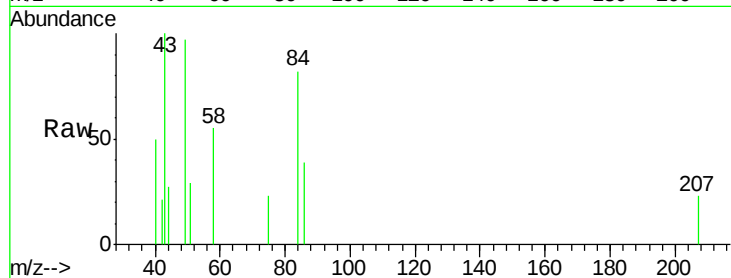
Tgt Ion: 42 Resp: 61

Ion Ratio Lower Upper

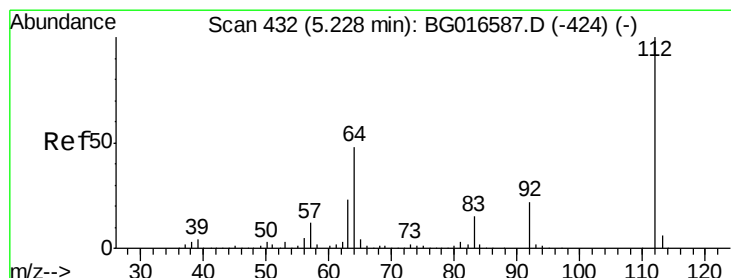
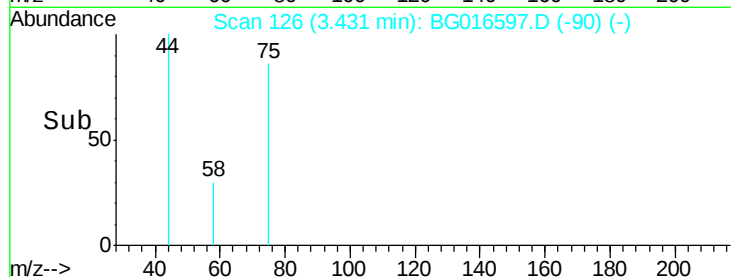
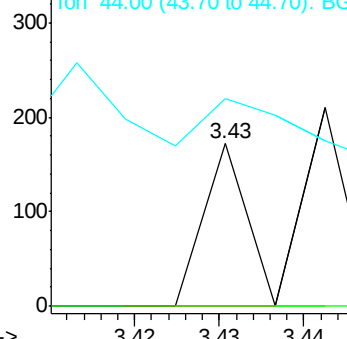
42 100

74 0.0 151.6 227.4#

44 127.9 4.9 7.3#



Abundance Ion 42.00 (41.70 to 42.70): BGC  
Ion 74.00 (73.70 to 74.70): BGC  
Ion 44.00 (43.70 to 44.70): BGC



#5

2-Fluorophenol

Concen: 124.55 ng

RT: 5.23 min Scan# 432

Delta R.T. 0.00 min

Lab File: BG016597.D

Acq: 21 Apr 2015 23:17

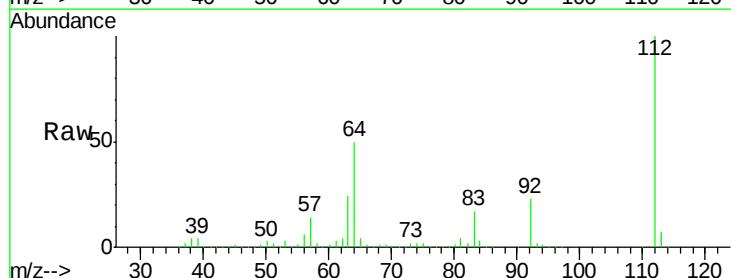
Tgt Ion: 112 Resp: 485857

Ion Ratio Lower Upper

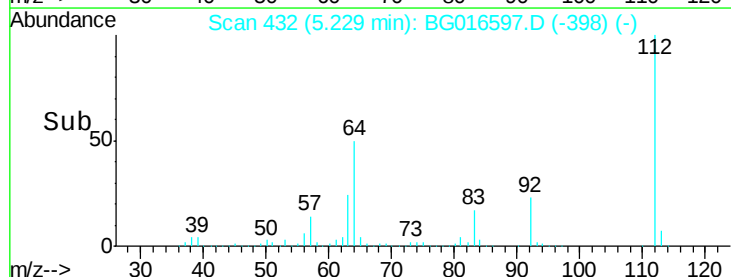
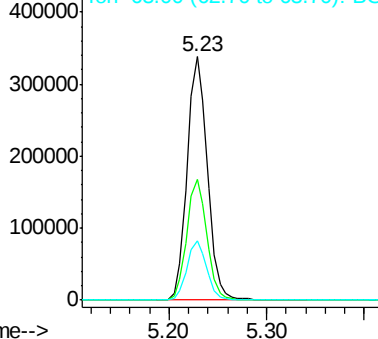
112 100

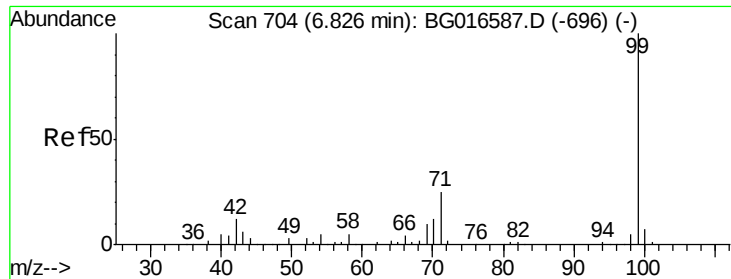
64 49.7 38.5 57.7

63 24.3 18.2 27.4



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





#7

Phenol-d6

Concen: 116.48 ng

RT: 6.83 min Scan# 704

Delta R.T. 0.00 min

Lab File: BG016597.D

Acq: 21 Apr 2015 23:17

Instrument :

BNA\_G

ClientSampled :

PB82889BL

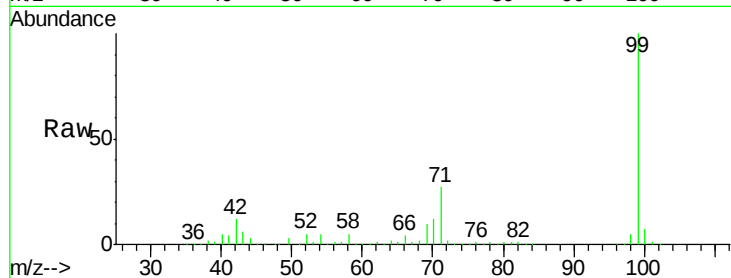
Tgt Ion: 99 Resp: 634818

Ion Ratio Lower Upper

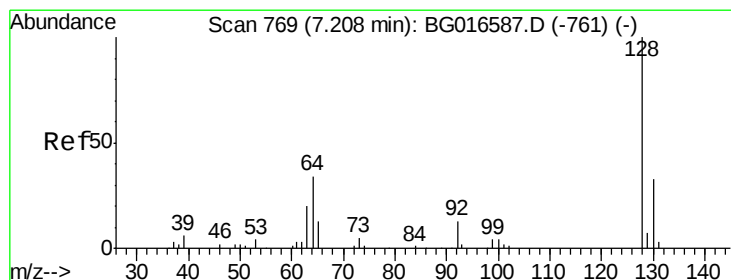
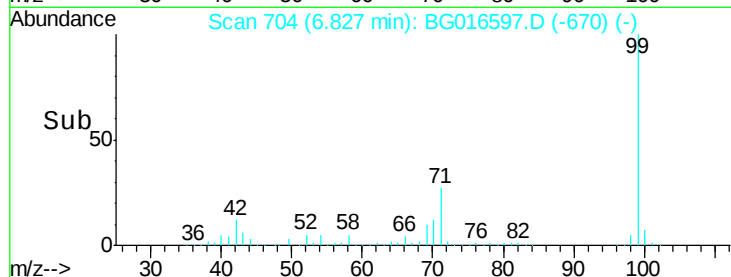
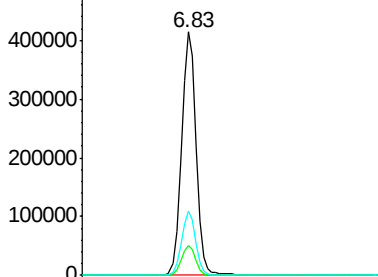
99 100

42 12.1 9.5 14.3

71 26.7 20.2 30.2



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



#8

2-Chlorophenol

Concen: 0.01 ng

RT: 7.20 min Scan# 768

Delta R.T. -0.01 min

Lab File: BG016597.D

Acq: 21 Apr 2015 23:17

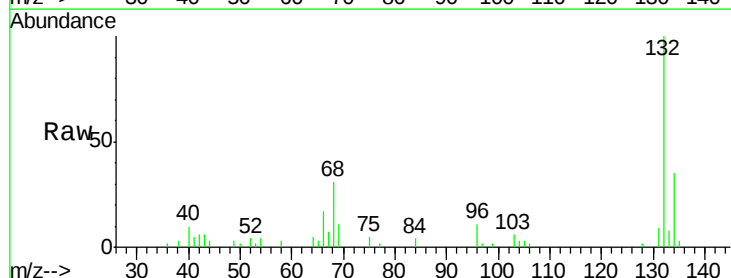
Tgt Ion: 128 Resp: 61

Ion Ratio Lower Upper

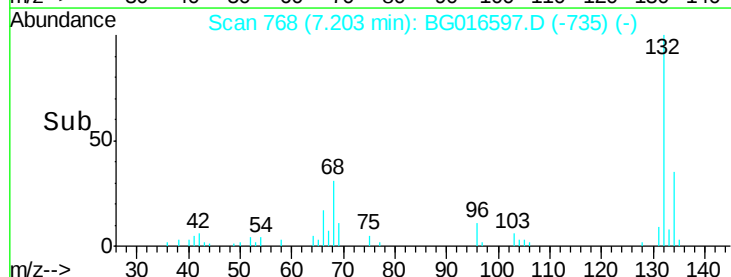
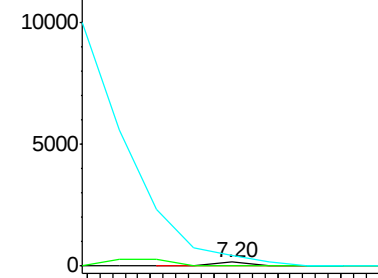
128 100

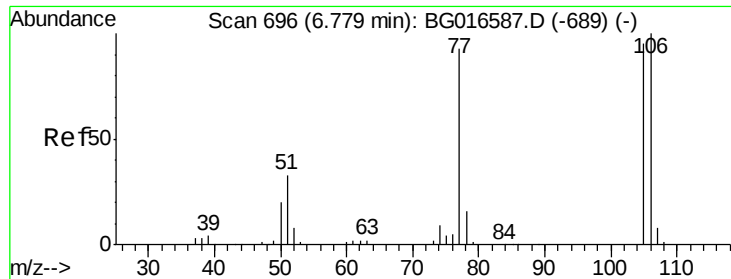
130 0.0 13.5 53.5#

64 241.9 17.9 57.9#



Abundance Ion 128.00 (127.70 to 128.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC  
Ion 64.00 (63.70 to 64.70): BGC





#9

Benzaldehyde

Concen: 0.24 ng

RT: 6.83 min Scan# 704

Delta R.T. 0.05 min

Lab File: BG016597.D

Acq: 21 Apr 2015 23:17

Instrument :

BNA\_G

ClientSampleId :

PB82889BL

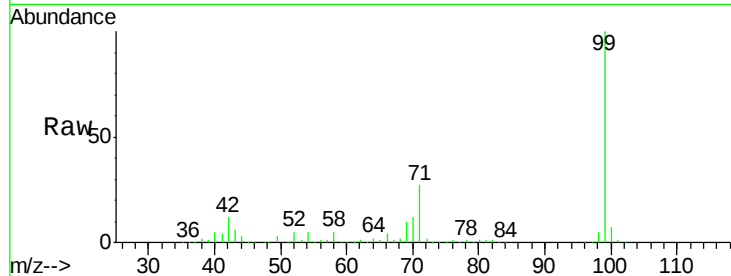
Tgt Ion: 77 Resp: 592

Ion Ratio Lower Upper

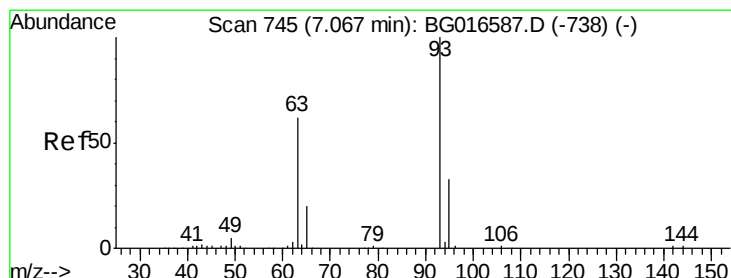
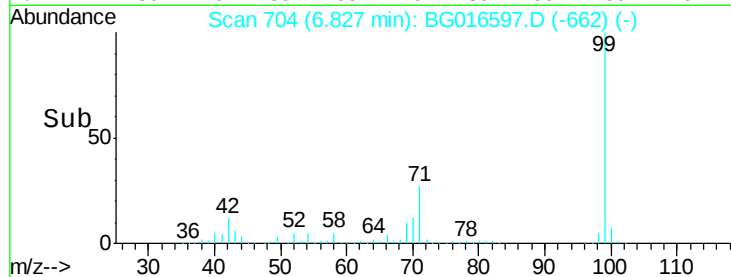
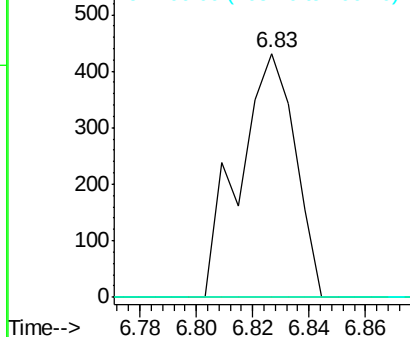
77 100

105 0.0 81.6 121.6#

106 0.0 87.4 127.4#



Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 105.00 (104.70 to 105.70): BGC  
Ion 106.00 (105.70 to 106.70): BGC



#11

bis(2-Chloroethyl)ether

Concen: 0.16 ng

RT: 7.17 min Scan# 763

Delta R.T. 0.11 min

Lab File: BG016597.D

Acq: 21 Apr 2015 23:17

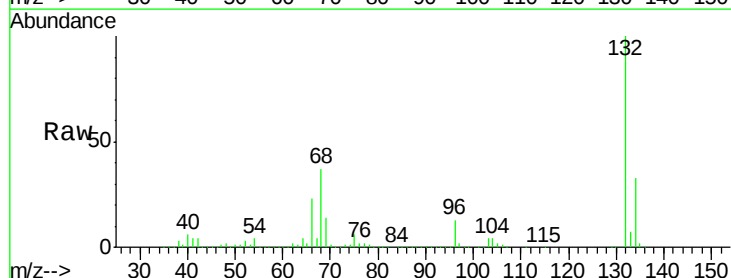
Tgt Ion: 93 Resp: 728

Ion Ratio Lower Upper

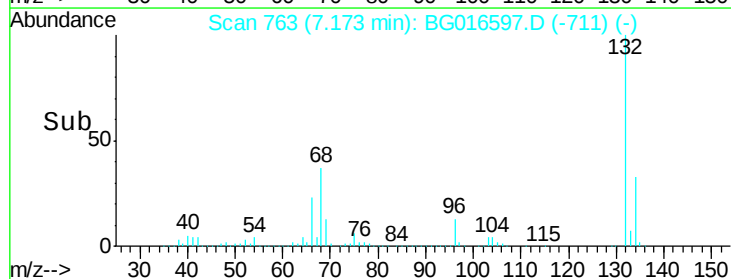
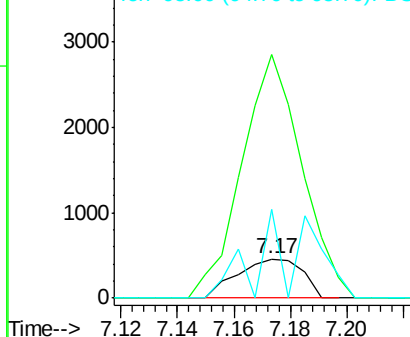
93 100

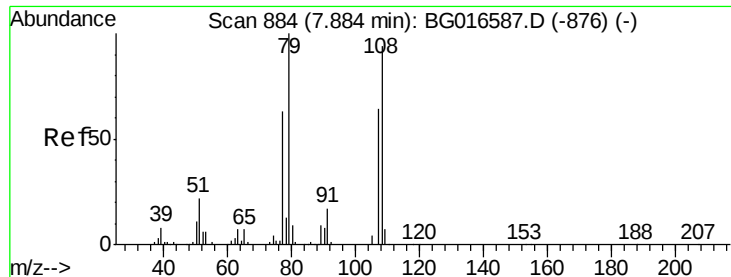
63 625.4 42.0 82.0#

95 227.6 12.6 52.6#



Abundance Ion 93.00 (92.70 to 93.70): BGC  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 95.00 (94.70 to 95.70): BGC





#15

Benzyl Alcohol

Concen: 1.43 ng

RT: 7.95 min Scan# 896

Delta R.T. 0.07 min

Lab File: BG016597.D

Acq: 21 Apr 2015 23:17

Instrument :

BNA\_G

ClientSampled :

PB82889BL

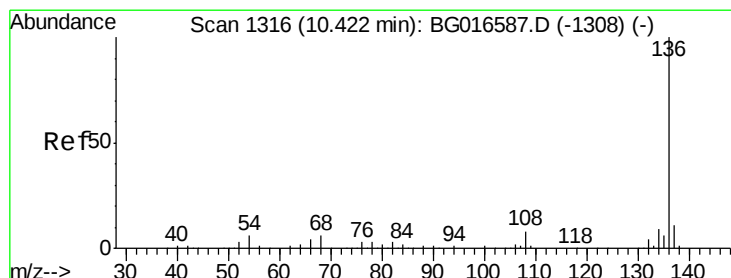
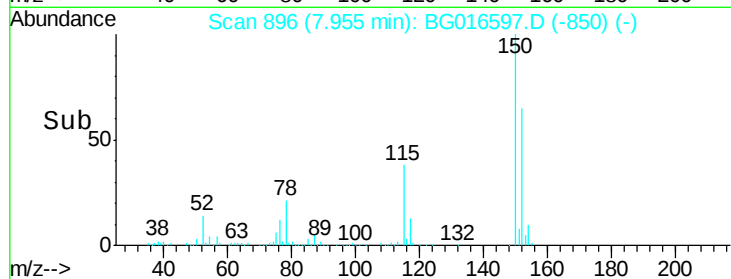
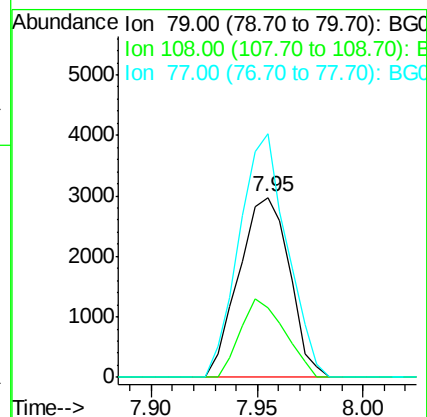
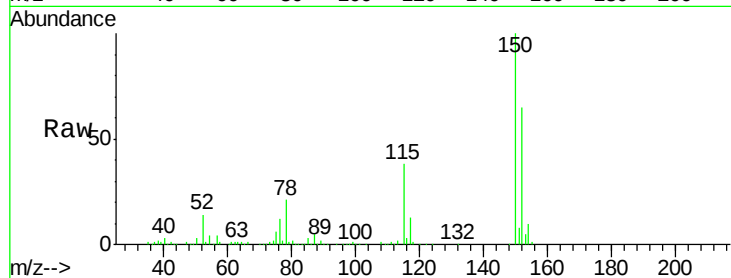
Tgt Ion: 79 Resp: 4942

Ion Ratio Lower Upper

79 100

108 38.9 74.8 112.2#

77 135.4 50.0 75.0#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.42 min Scan# 1316

Delta R.T. 0.00 min

Lab File: BG016597.D

Acq: 21 Apr 2015 23:17

Tgt Ion: 136 Resp: 243498

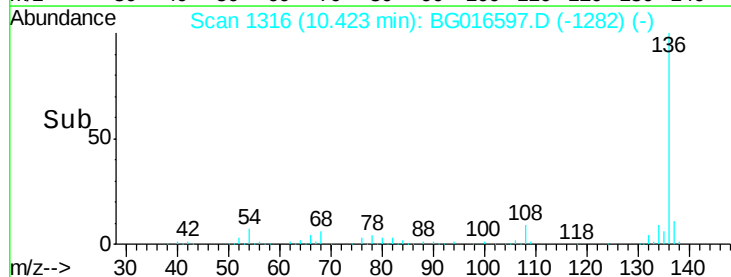
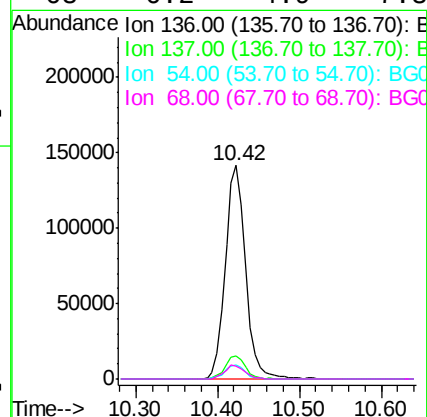
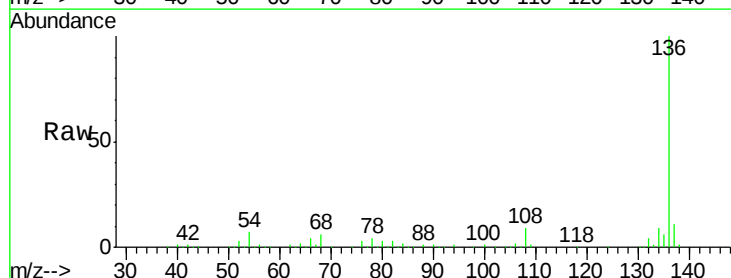
Ion Ratio Lower Upper

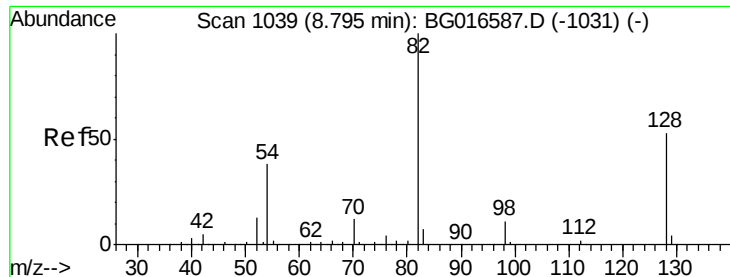
136 100

137 11.1 8.8 13.2

54 6.5 4.9 7.3

68 6.2 4.9 7.3

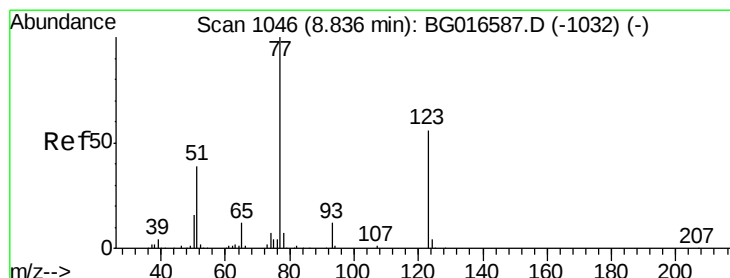
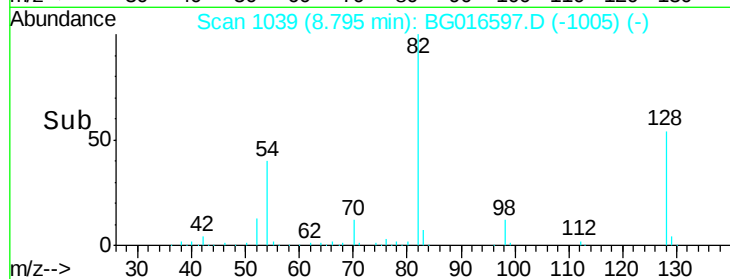
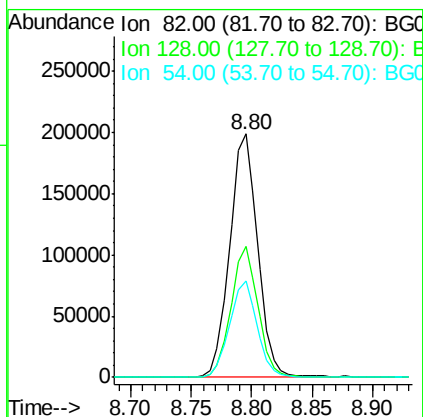
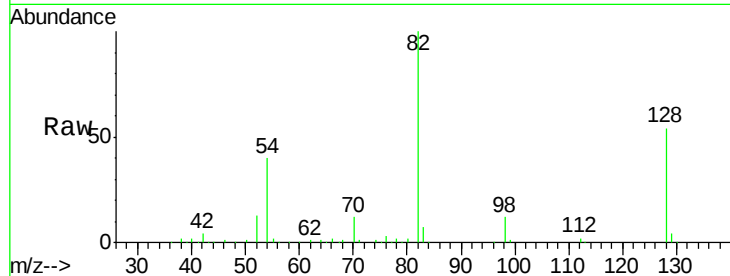




#23  
 Nitrobenzene-d5  
 Concen: 81.32 ng  
 RT: 8.80 min Scan# 1039  
 Delta R.T. 0.00 min  
 Lab File: BG016597.D  
 Acq: 21 Apr 2015 23:17

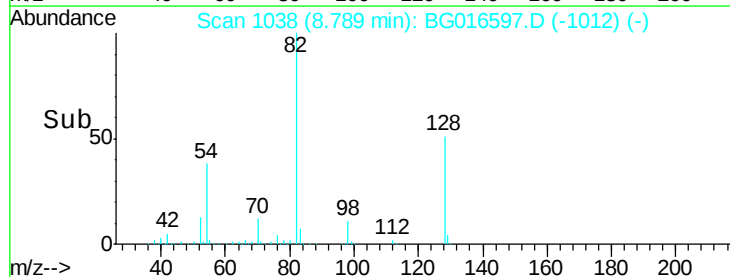
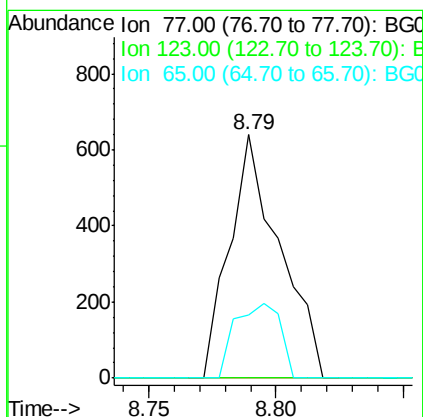
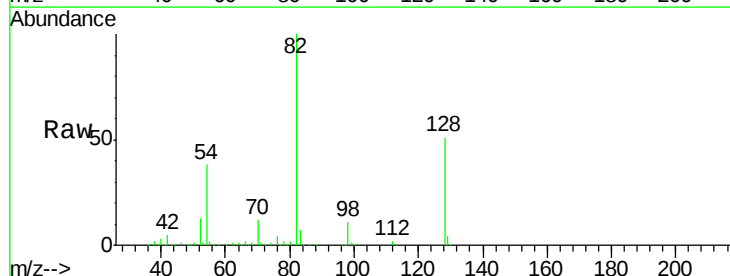
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PB82889BL

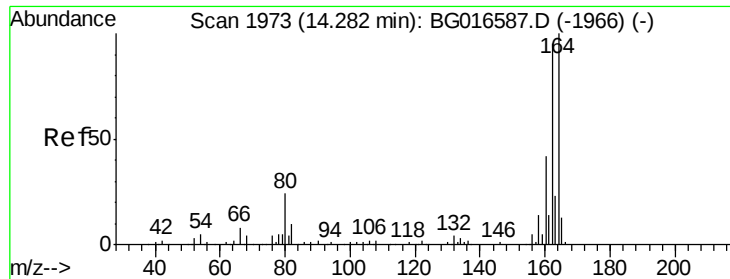
Tgt Ion: 82 Resp: 321586  
 Ion Ratio Lower Upper  
 82 100  
 128 53.7 42.7 64.1  
 54 39.8 30.6 45.8



#24  
 Nitrobenzene  
 Concen: 0.21 ng  
 RT: 8.79 min Scan# 1038  
 Delta R.T. -0.05 min  
 Lab File: BG016597.D  
 Acq: 21 Apr 2015 23:17

Tgt Ion: 77 Resp: 879  
 Ion Ratio Lower Upper  
 77 100  
 123 0.0 44.8 67.2#  
 65 26.1 9.8 14.6#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.28 min Scan# 1973

Delta R.T. 0.00 min

Lab File: BG016597.D

Acq: 21 Apr 2015 23:17

Instrument :

BNA\_G

ClientSampleId :

PB82889BL

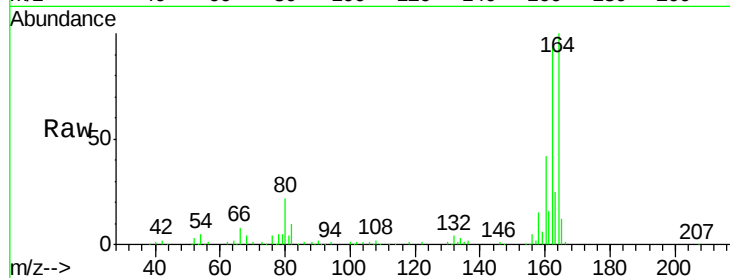
Tgt Ion:164 Resp: 131248

Ion Ratio Lower Upper

164 100

162 93.6 75.8 113.6

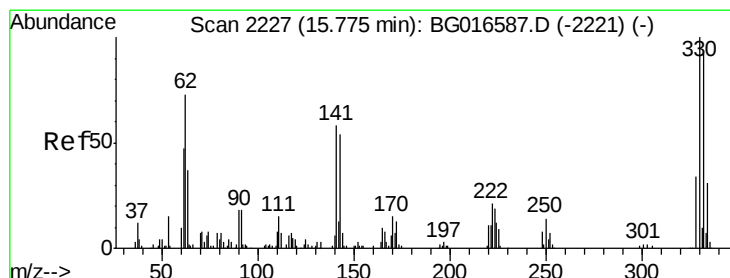
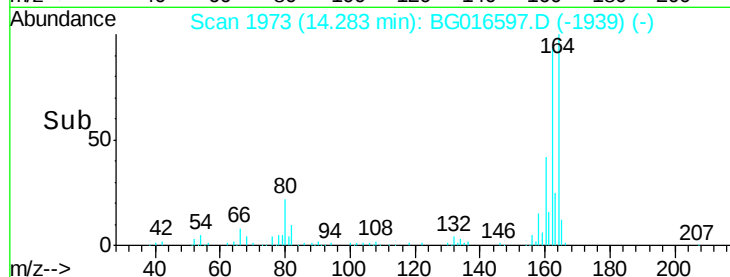
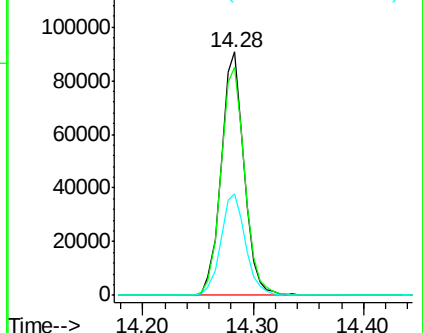
160 41.9 33.8 50.6



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: 123.57 ng

RT: 15.78 min Scan# 2227

Delta R.T. 0.00 min

Lab File: BG016597.D

Acq: 21 Apr 2015 23:17

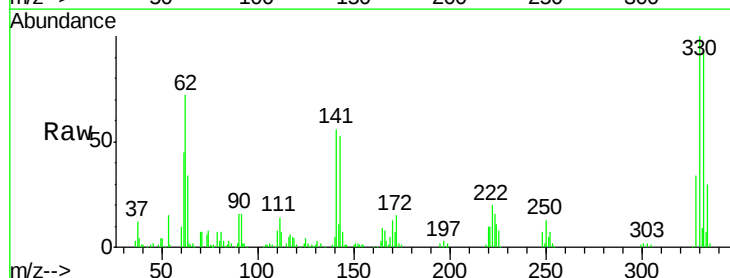
Tgt Ion:330 Resp: 110154

Ion Ratio Lower Upper

330 100

332 95.8 76.6 114.8

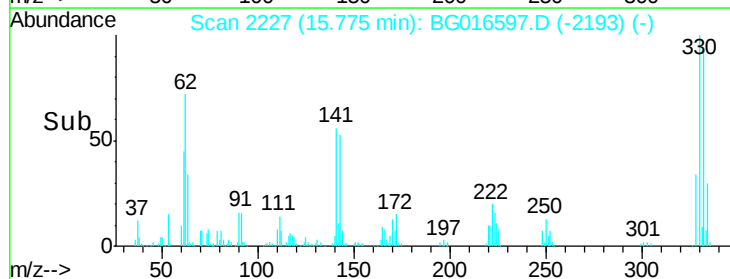
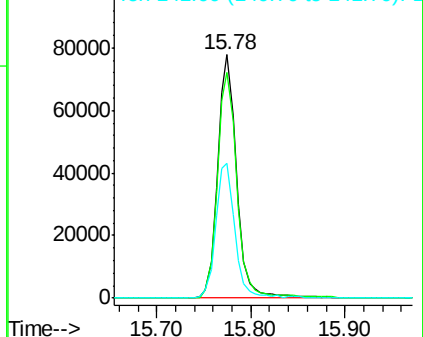
141 55.9 45.9 68.9

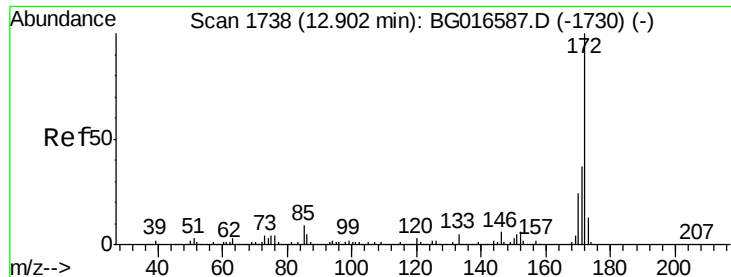


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

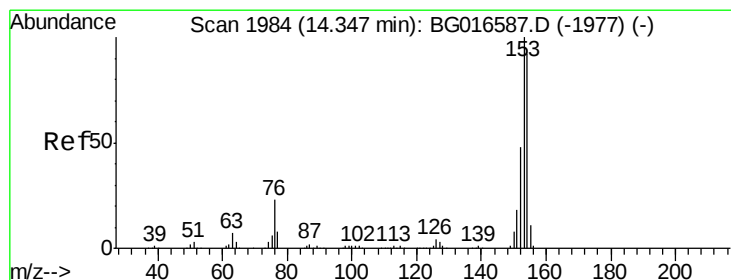
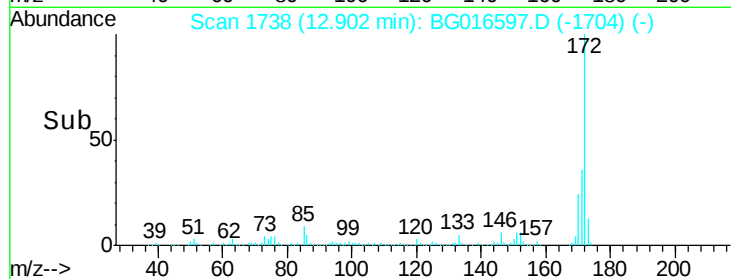
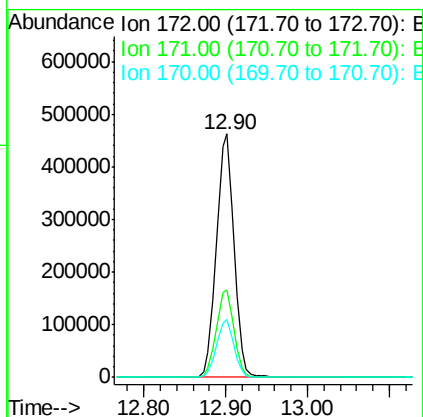
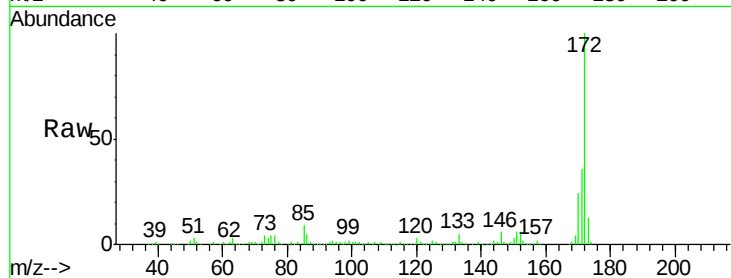




#44  
2-Fluorobiphenyl  
Concen: 87.77 ng  
RT: 12.90 min Scan# 1738  
Delta R.T. 0.00 min  
Lab File: BG016597.D  
Acq: 21 Apr 2015 23:17

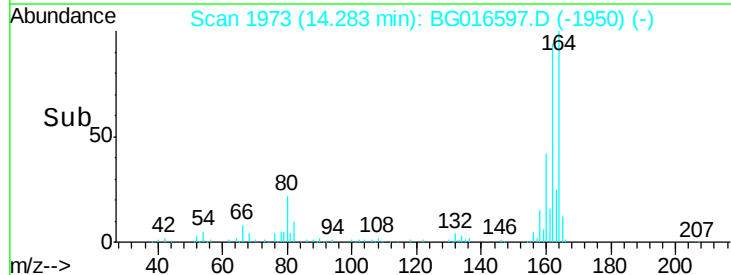
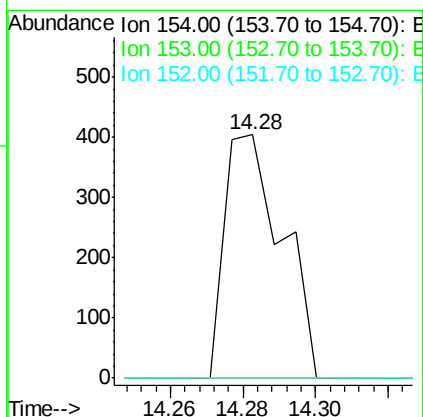
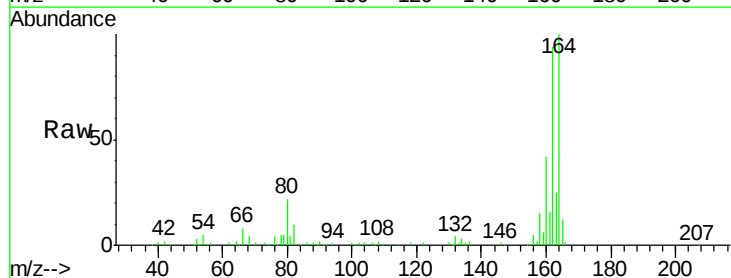
Instrument :  
BNA\_G  
ClientSampleId :  
PB82889BL

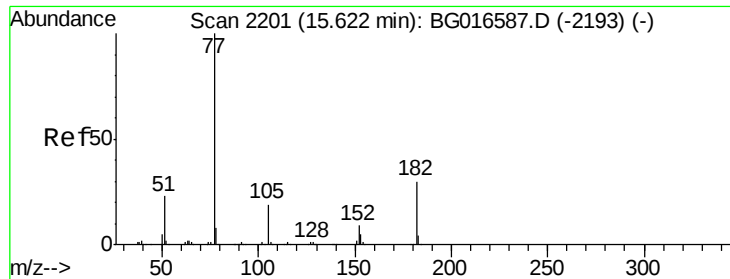
Tgt Ion:172 Resp: 695561  
Ion Ratio Lower Upper  
172 100  
171 36.1 29.6 44.4  
170 24.0 19.4 29.0



#51  
Acenaphthene  
Concen: 0.05 ng  
RT: 14.28 min Scan# 1973  
Delta R.T. -0.06 min  
Lab File: BG016597.D  
Acq: 21 Apr 2015 23:17

Tgt Ion:154 Resp: 446  
Ion Ratio Lower Upper  
154 100  
153 0.0 87.3 130.9#  
152 0.0 41.4 62.2#

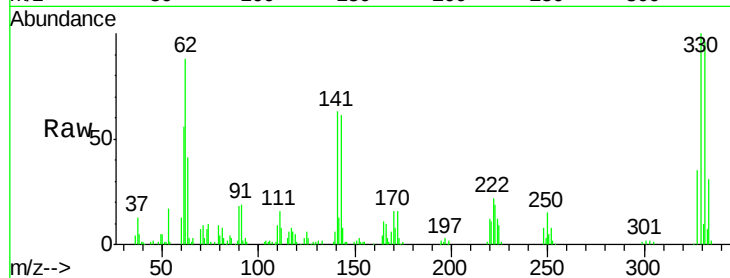




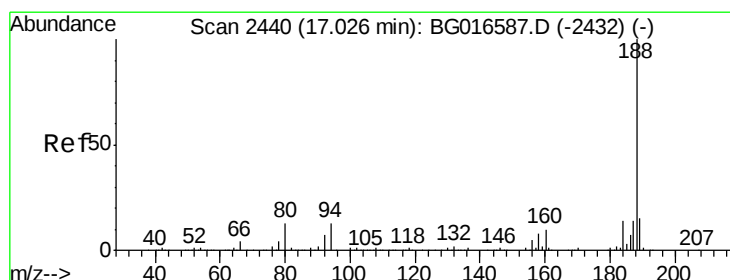
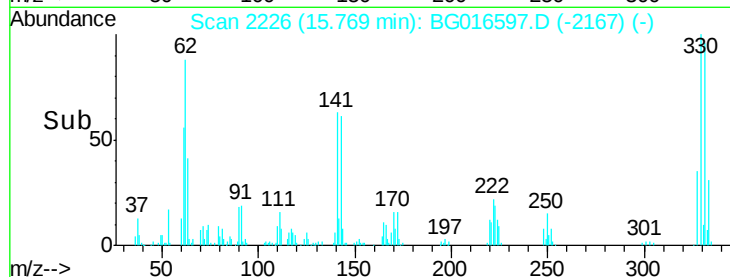
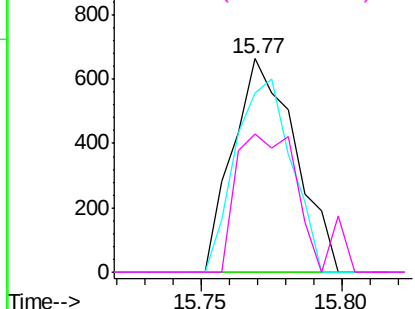
#62  
Azobenzene  
Concen: 0.11 ng  
RT: 15.77 min Scan# 2226  
Delta R.T. 0.15 min  
Lab File: BG016597.D  
Acq: 21 Apr 2015 23:17

Instrument :  
BNA\_G  
ClientSampleId :  
PB82889BL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 1013  |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 182      | 0.0   | 9.9   | 49.9# |
| 105      | 83.6  | 0.0   | 38.8# |
| 51       | 64.9  | 2.7   | 42.7# |

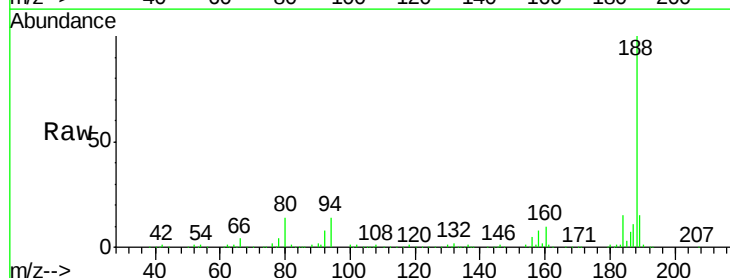


Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 182.00 (181.70 to 182.70): BGC  
Ion 105.00 (104.70 to 105.70): BGC  
Ion 51.00 (50.70 to 51.70): BGC

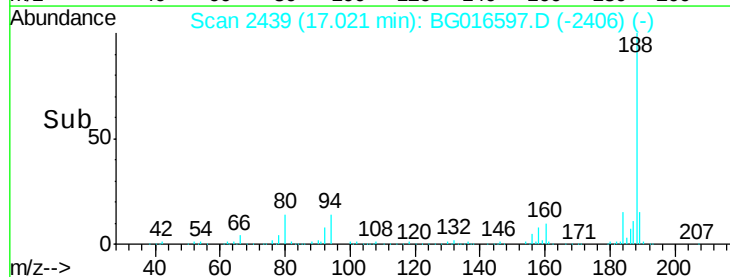
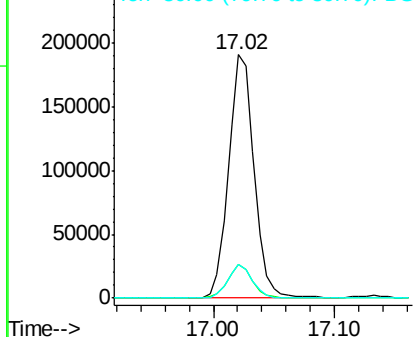


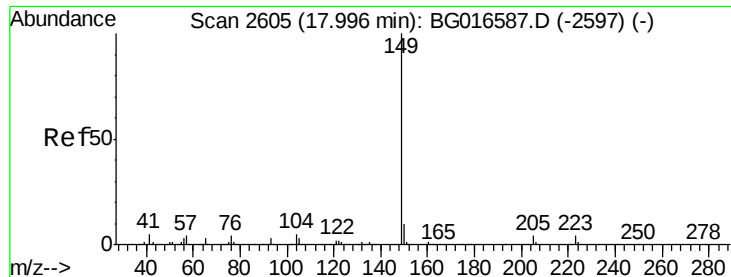
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.02 min Scan# 2439  
Delta R.T. -0.01 min  
Lab File: BG016597.D  
Acq: 21 Apr 2015 23:17

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 279311 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 13.6  | 10.5  | 15.7   |
| 80       | 14.0  | 10.6  | 16.0   |



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

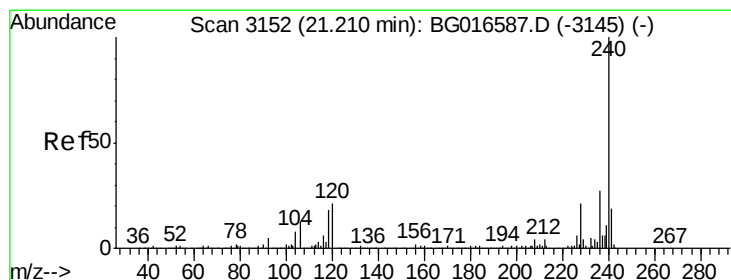
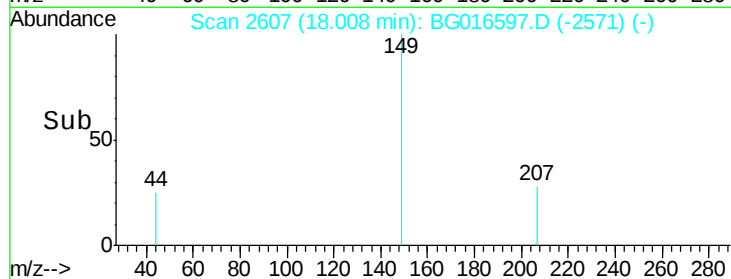
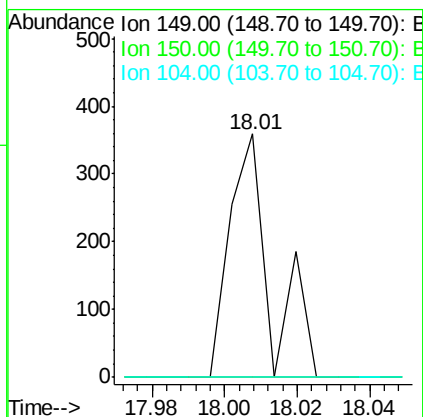
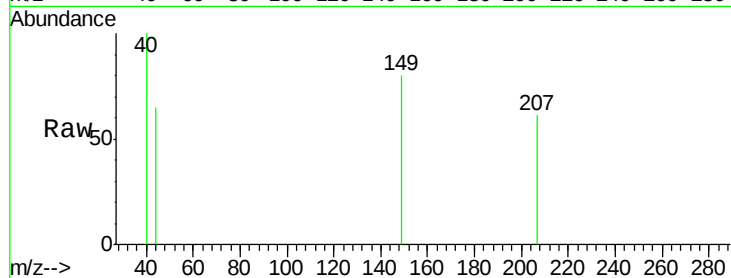




#73  
Di-n-butylphthalate  
Concen: 0.01 ng  
RT: 18.01 min Scan# 2607  
Delta R.T. 0.01 min  
Lab File: BG016597.D  
Acq: 21 Apr 2015 23:17

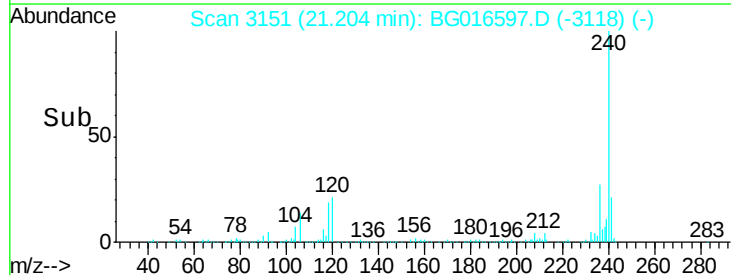
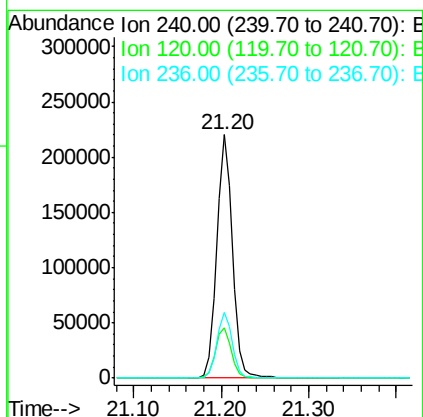
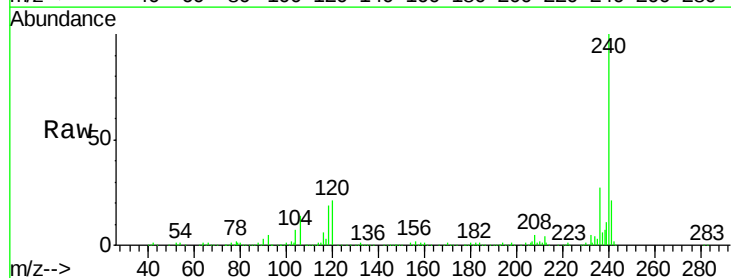
Instrument :  
BNA\_G  
ClientSampleId :  
PB82889BL

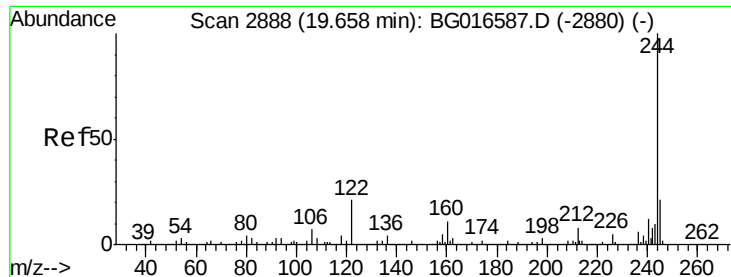
Tgt Ion:149 Resp: 282  
Ion Ratio Lower Upper  
149 100  
150 0.0 7.9 11.9#  
104 0.0 3.8 5.6#



#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.20 min Scan# 3151  
Delta R.T. -0.01 min  
Lab File: BG016597.D  
Acq: 21 Apr 2015 23:17

Tgt Ion:240 Resp: 275195  
Ion Ratio Lower Upper  
240 100  
120 20.6 16.7 25.1  
236 26.9 21.7 32.5





#78

Terphenyl-d14

Concen: 79.11 ng

RT: 19.65 min Scan# 2887

Delta R.T. -0.01 min

Lab File: BG016597.D

Acq: 21 Apr 2015 23:17

Instrument :

BNA\_G

ClientSampleId :

PB82889BL

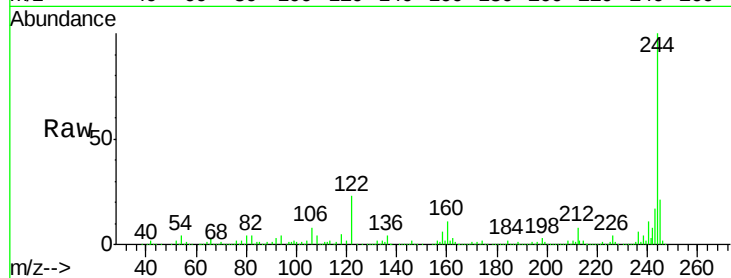
Tgt Ion:244 Resp: 903659

Ion Ratio Lower Upper

244 100

212 8.5 6.8 10.2

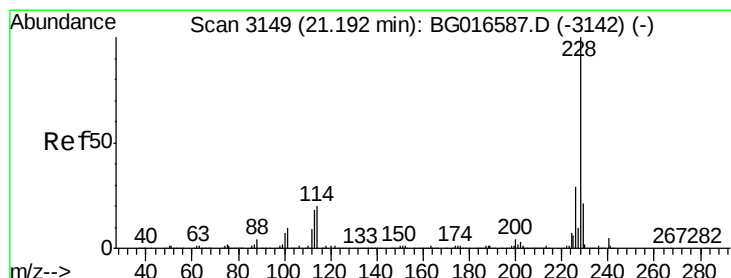
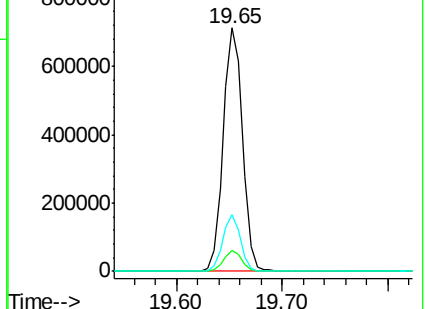
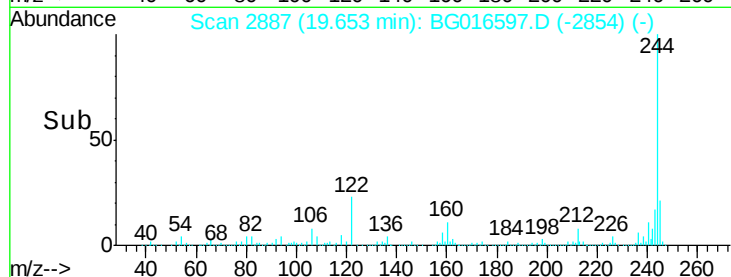
122 23.1 17.0 25.6



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



#80

Benzo(a)anthracene

Concen: 0.05 ng

RT: 21.20 min Scan# 3151

Delta R.T. 0.01 min

Lab File: BG016597.D

Acq: 21 Apr 2015 23:17

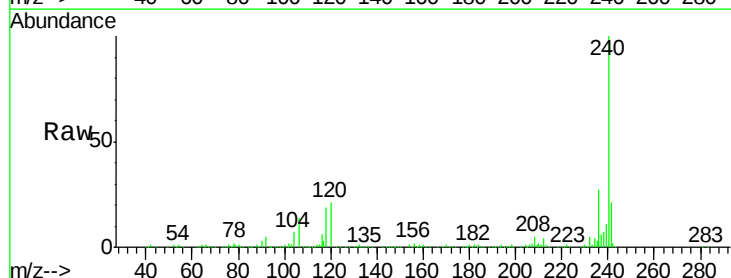
Tgt Ion:228 Resp: 797

Ion Ratio Lower Upper

228 100

226 0.0 23.2 34.8#

229 31.1 16.9 25.3#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

