

Data Path : Z:\HPCHEM1\BNA G\DATA\BG022916\  
 Data File : BG021166.D  
 Acq On : 29 Feb 2016 22:12  
 Operator : UM/SJ  
 Sample : H1603-02  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-40(6-8)

Quant Time: Feb 29 23:59:36 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 29 17:40:25 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.15  | 152  | 7774     | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.96 | 136  | 37634    | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 14.76 | 164  | 25714    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 17.49 | 188  | 68360    | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 21.75 | 240  | 71550    | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 25.03 | 264  | 63998    | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.70  | 112  | 50548    | 103.37 | ng    | 0.00     |
| 7) Phenol-d6                | 7.30  | 99   | 83032    | 103.26 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.31  | 82   | 58663    | 65.96  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 16.23 | 330  | 28548    | 106.71 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 13.38 | 172  | 109985   | 60.74  | ng    | 0.00     |
| 78) Terphenyl-d14           | 20.08 | 244  | 194209   | 65.76  | ng    | 0.00     |

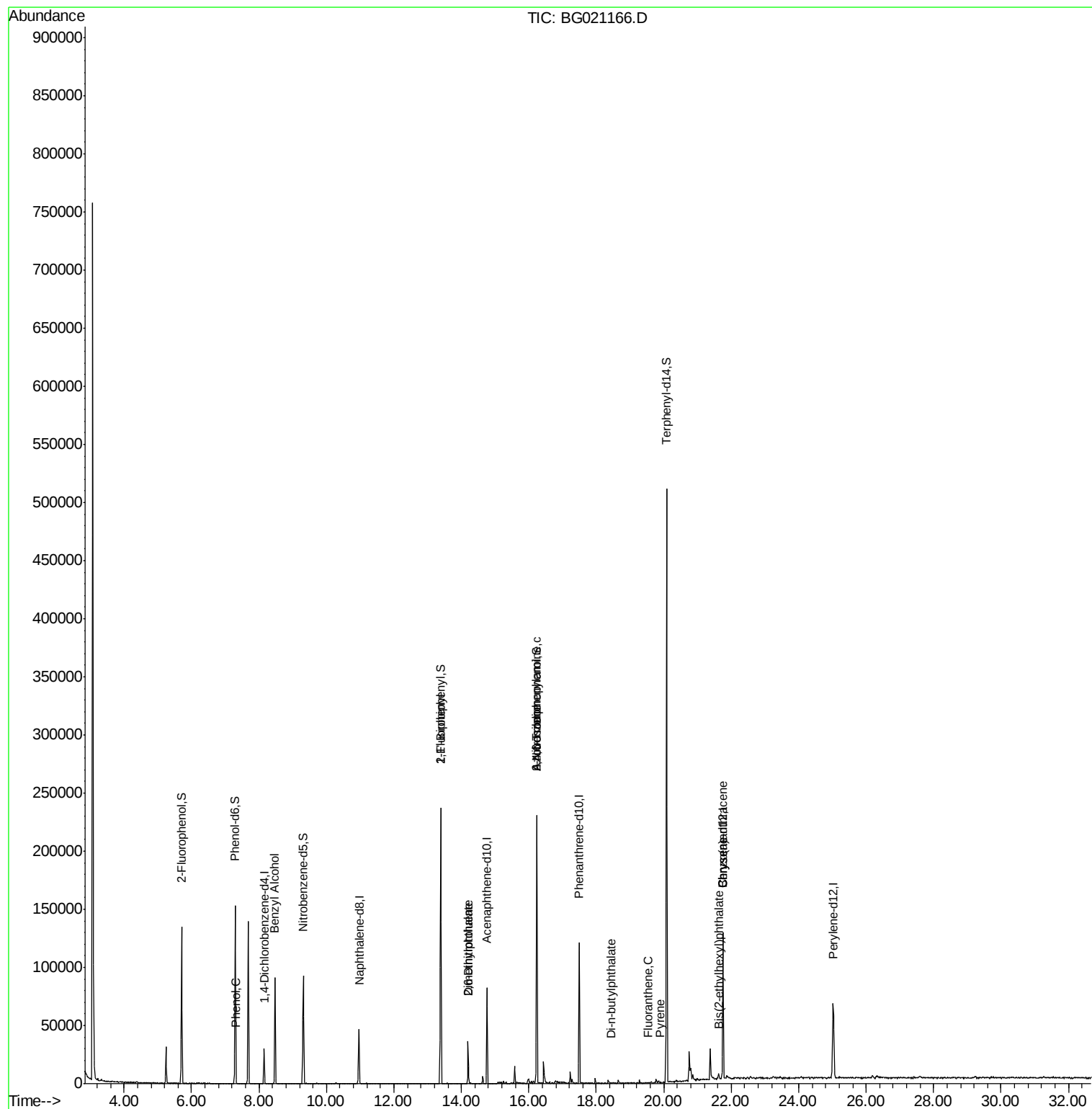
| Target Compounds               | R.T.  | QIon | Response | Conc | Units | Qvalue |
|--------------------------------|-------|------|----------|------|-------|--------|
| 10) Phenol                     | 7.33  | 94   | 249      | 0.29 | ng    | # 34   |
| 15) Benzyl Alcohol             | 8.47  | 79   | 846      | 1.15 | ng    | # 46   |
| 45) 1,1'-Biphenyl              | 13.39 | 154  | 54       | 0.03 | ng    | # 1    |
| 49) Dimethylphthalate          | 14.20 | 163  | 20163    | 8.80 | ng    | 98     |
| 50) 2,6-Dinitrotoluene         | 14.20 | 165  | 61       | 0.13 | ng    | # 1    |
| 62) Azobenzene                 | 16.23 | 77   | 209      | 0.08 | ng    | # 1    |
| 65) n-Nitrosodiphenylamine     | 16.23 | 169  | 1502     | 0.71 | ng    | # 35   |
| 73) Di-n-butylphthalate        | 18.44 | 149  | 392      | 0.08 | ng    | # 78   |
| 74) Fluoranthene               | 19.53 | 202  | 57       | 0.01 | ng    | # 63   |
| 77) Pyrene                     | 19.89 | 202  | 57       | 0.01 | ng    | # 58   |
| 80) Benzo(a)anthracene         | 21.75 | 228  | 180      | 0.04 | ng    | # 51   |
| 82) Chrysene                   | 21.75 | 228  | 180      | 0.04 | ng    | # 49   |
| 83) Bis(2-ethylhexyl)phthalate | 21.63 | 149  | 1743     | 0.55 | ng    | # 97   |

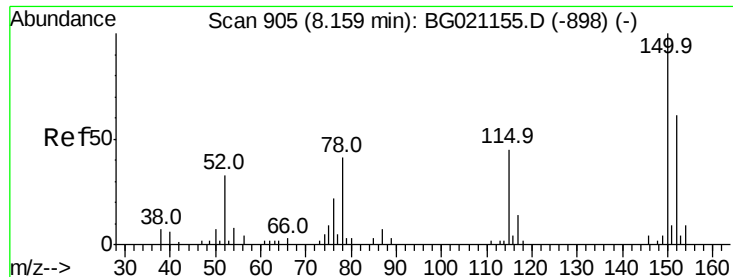
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG022916\  
Data File : BG021166.D  
Acq On : 29 Feb 2016 22:12  
Operator : UM/SJ  
Sample : H1603-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SB-40(6-8)

Quant Time: Feb 29 23:59:36 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG022916.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Feb 29 17:40:25 2016  
Response via : Initial Calibration



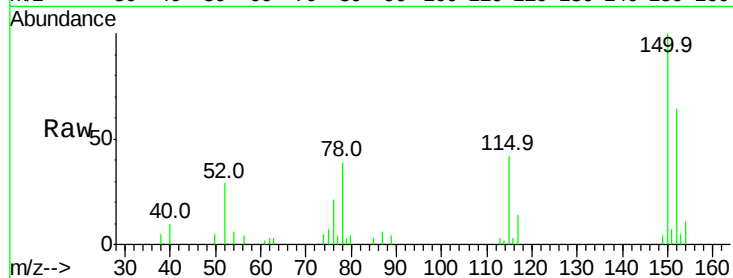


#1

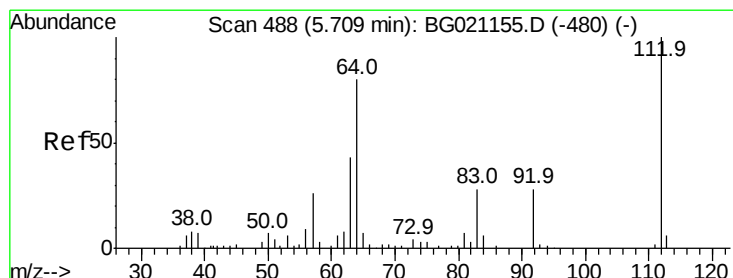
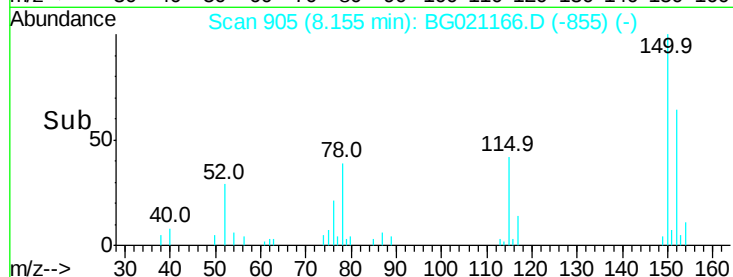
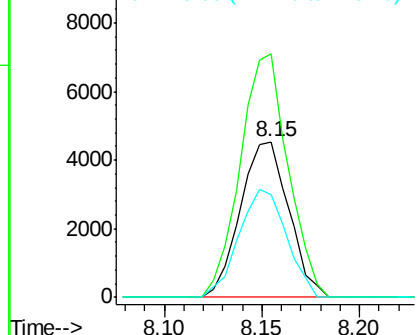
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.15 min Scan# 905  
Delta R.T. -0.00 min  
Lab File: BG021166.D  
Acq: 29 Feb 2016 22:12

Instrument :  
BNA\_G  
ClientSampleId :  
SB-40(6-8)

Tot Ion:152 Resp: 7774  
Ion Ratio Lower Upper  
152 100  
150 156.4 123.4 185.2  
115 66.4 43.3 64.9#



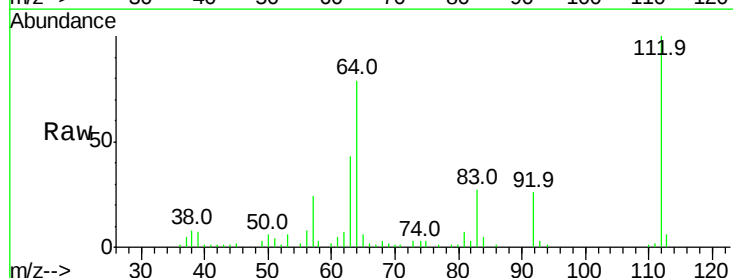
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



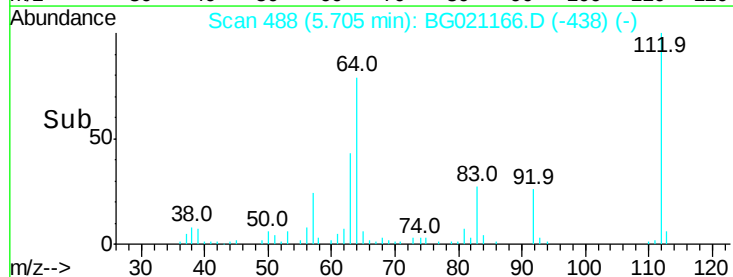
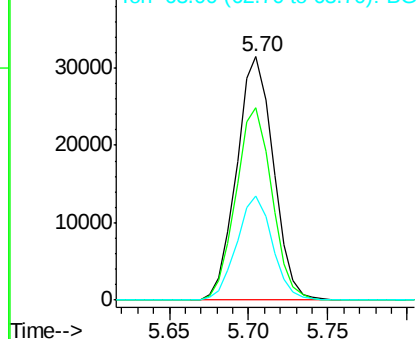
#5

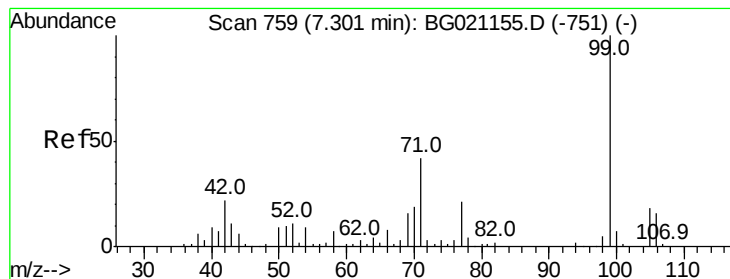
2-Fluorophenol  
Concen: 103.37 ng  
RT: 5.70 min Scan# 488  
Delta R.T. -0.00 min  
Lab File: BG021166.D  
Acq: 29 Feb 2016 22:12

Tgt Ion:112 Resp: 50548  
Ion Ratio Lower Upper  
112 100  
64 79.1 42.6 63.8#  
63 42.8 21.7 32.5#



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: 103.26 ng

RT: 7.30 min Scan# 759

Delta R.T. -0.00 min

Lab File: BG021166.D

Acq: 29 Feb 2016 22:12

Instrument :

BNA\_G

ClientSampleId :

SB-40(6-8)

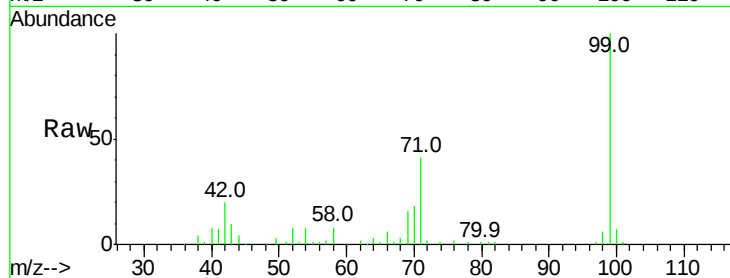
Tot Ion: 99 Resp: 83032

Ion Ratio Lower Upper

99 100

42 20.4 13.2 19.8#

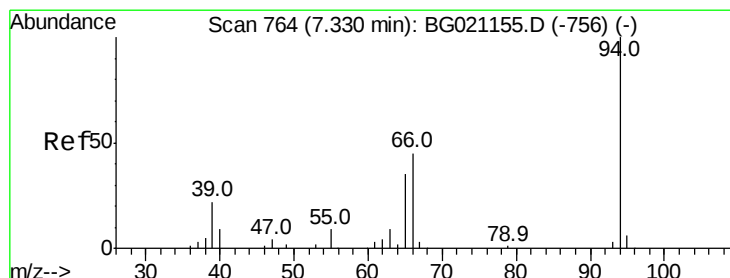
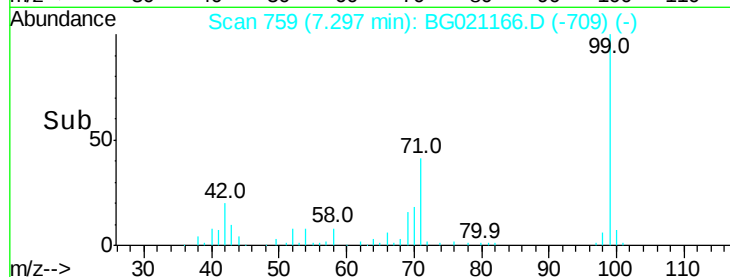
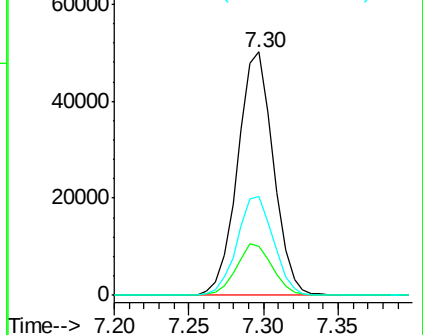
71 40.7 25.2 37.8#



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



#10

Phenol

Concen: 0.29 ng

RT: 7.33 min Scan# 764

Delta R.T. -0.00 min

Lab File: BG021166.D

Acq: 29 Feb 2016 22:12

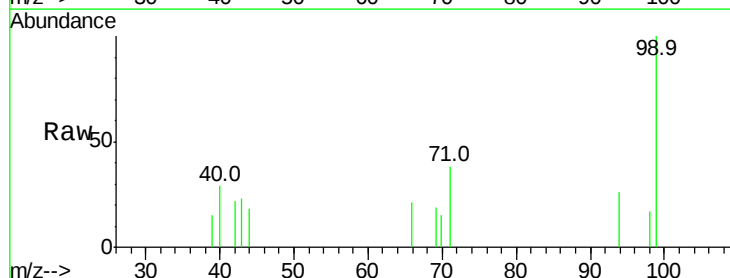
Tgt Ion: 94 Resp: 249

Ion Ratio Lower Upper

94 100

65 0.0 7.2 47.2#

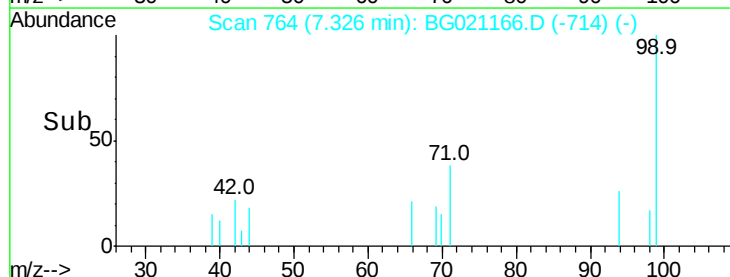
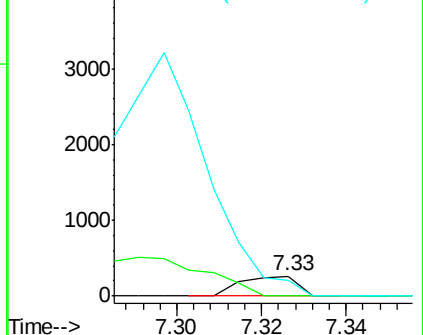
66 80.3 15.4 55.4#

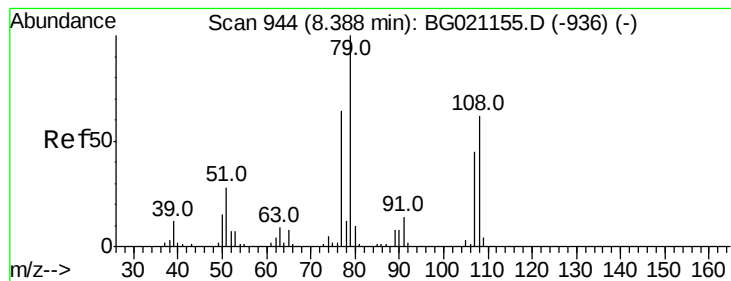


Abundance Ion 94.00 (93.70 to 94.70): BGC

Ion 65.00 (64.70 to 65.70): BGC

Ion 66.00 (65.70 to 66.70): BGC





#15

Benzyl Alcohol

Concen: 1.15 ng

RT: 8.47 min Scan# 959

Delta R.T. 0.08 min

Lab File: BG021166.D

Acq: 29 Feb 2016 22:12

Instrument :

BNA\_G

ClientSampleId :

SB-40(6-8)

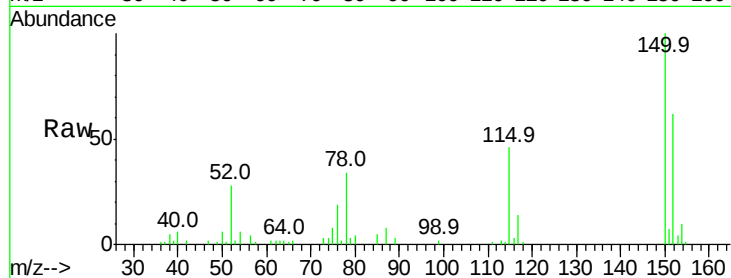
Tot Ion: 79 Resp: 846

Ion Ratio Lower Upper

79 100

108 0.0 65.1 97.7#

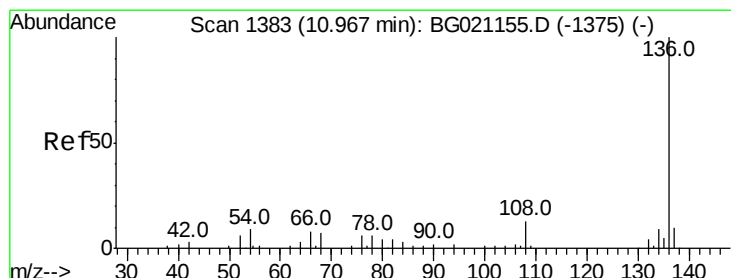
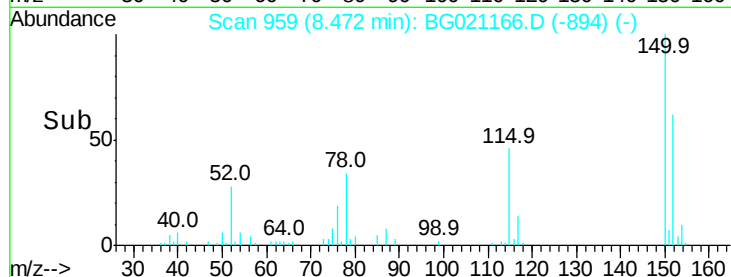
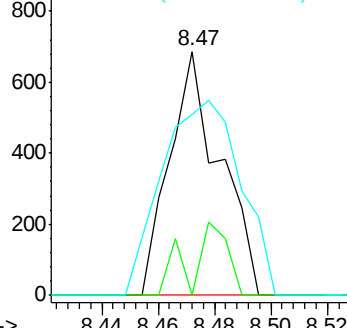
77 74.1 53.8 80.8



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: 20.00 ng

RT: 10.96 min Scan# 1383

Delta R.T. -0.00 min

Lab File: BG021166.D

Acq: 29 Feb 2016 22:12

Tgt Ion: 136 Resp: 37634

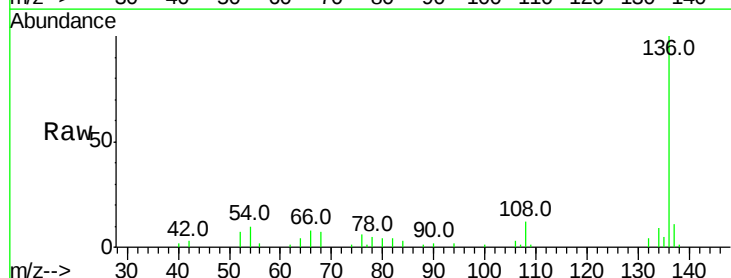
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 9.8 6.9 10.3

68 7.0 5.8 8.6

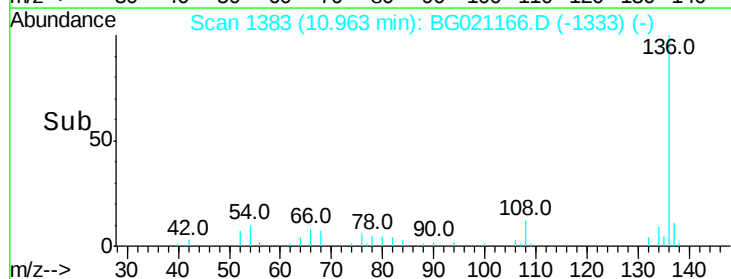
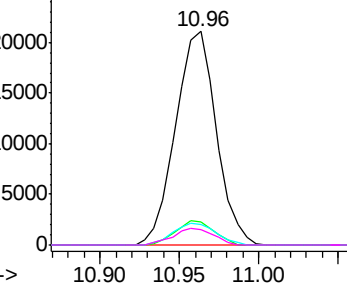


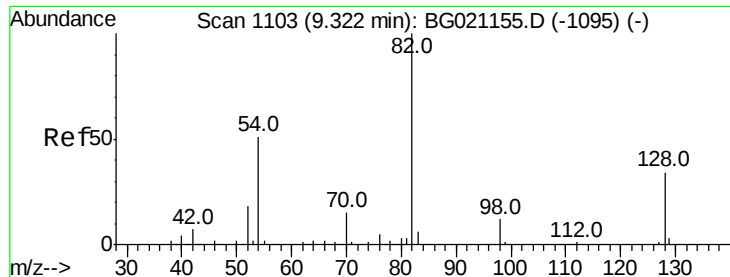
Abundance Ion 136.00 (135.70 to 136.70): BGC

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

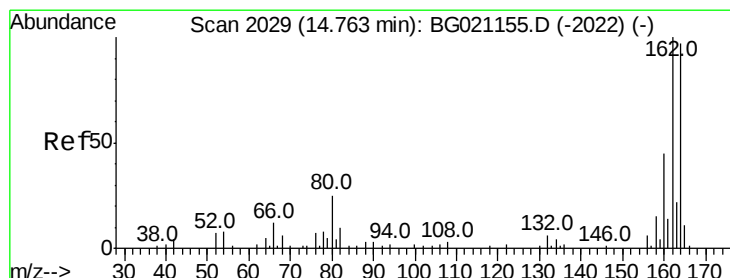
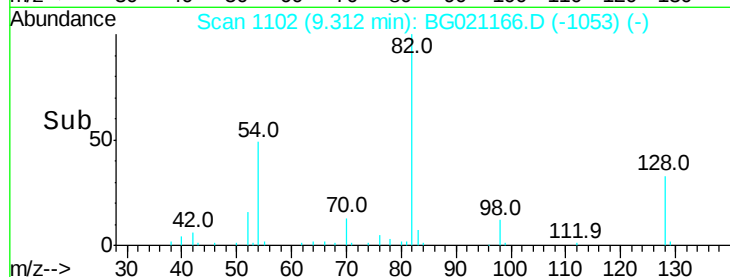
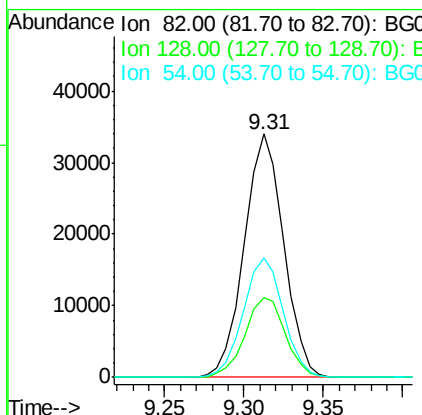
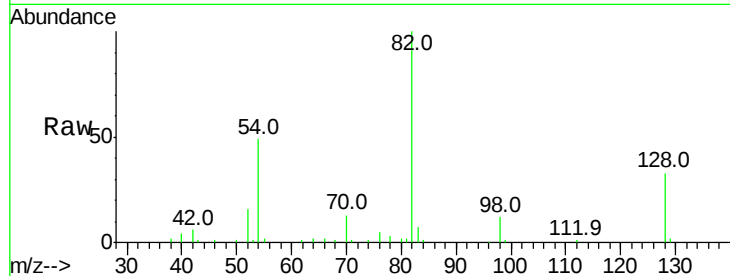




#23  
Nitrobenzene-d5  
Concen: 65.96 ng  
RT: 9.31 min Scan# 1102  
Delta R.T. -0.01 min  
Lab File: BG021166.D  
Acq: 29 Feb 2016 22:12

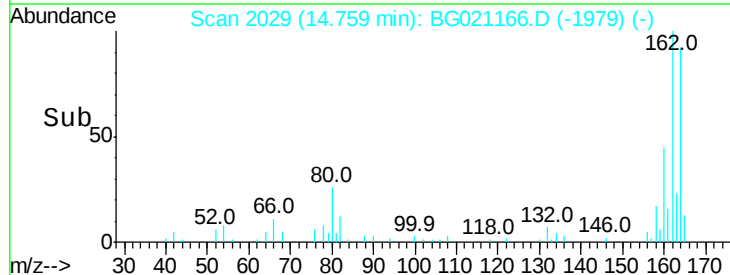
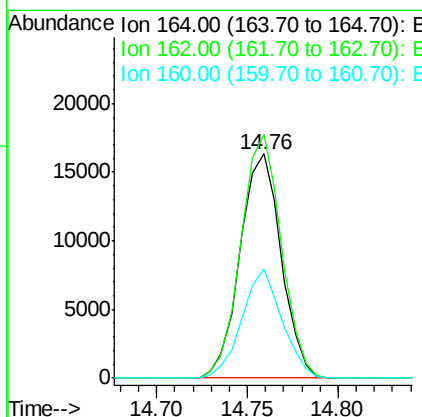
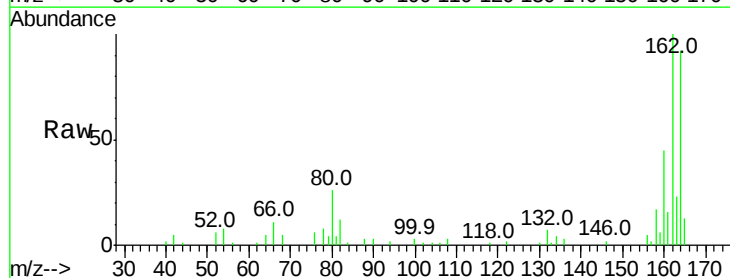
Instrument :  
BNA\_G  
ClientSampleId :  
SB-40(6-8)

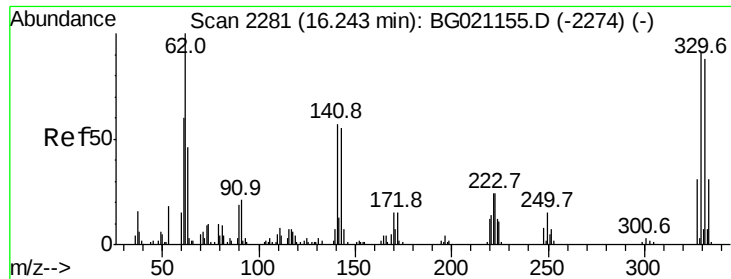
| Tot Ion | 82    | Resp  | 58663 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 82      | 100   |       |       |
| 128     | 32.6  | 36.3  | 54.5# |
| 54      | 49.1  | 37.6  | 56.4  |



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.76 min Scan# 2029  
Delta R.T. -0.00 min  
Lab File: BG021166.D  
Acq: 29 Feb 2016 22:12

| Tgt Ion | 164   | Resp  | 25714 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 164     | 100   |       |       |
| 162     | 108.6 | 80.6  | 120.8 |
| 160     | 48.7  | 36.5  | 54.7  |

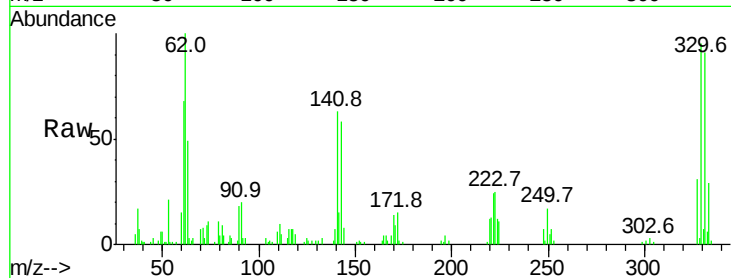




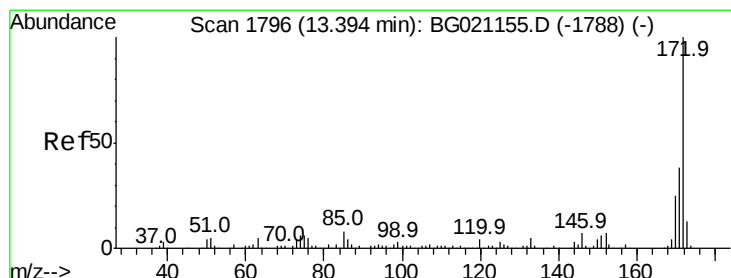
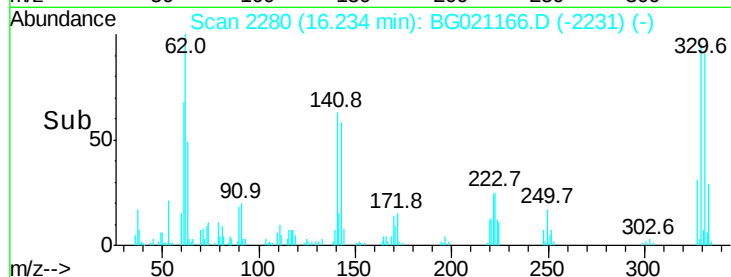
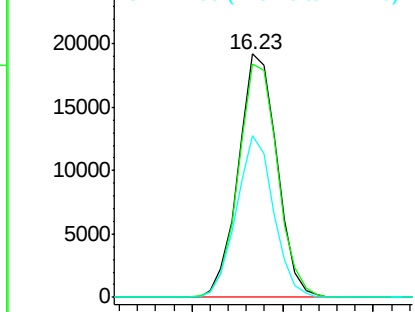
#41  
 2,4,6-Tribromophenol  
 Concen: 106.71 ng  
 RT: 16.23 min Scan# 2280  
 Delta R.T. -0.01 min  
 Lab File: BG021166.D  
 Acq: 29 Feb 2016 22:12

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-40(6-8)

Tot Ion:330 Resp: 28548  
 Ion Ratio Lower Upper  
 330 100  
 332 97.3 77.4 116.0  
 141 63.8 35.3 52.9#

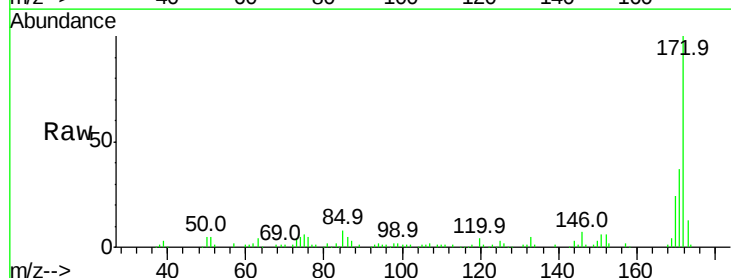


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

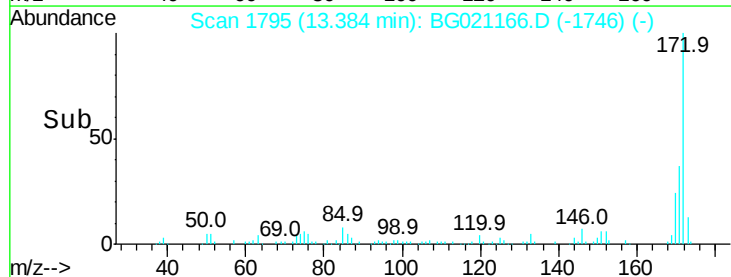
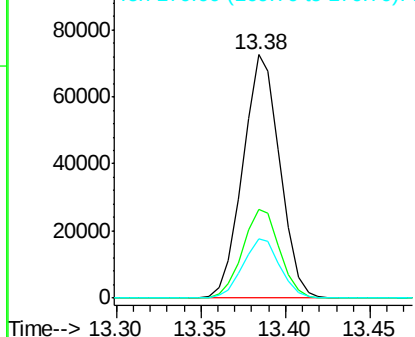


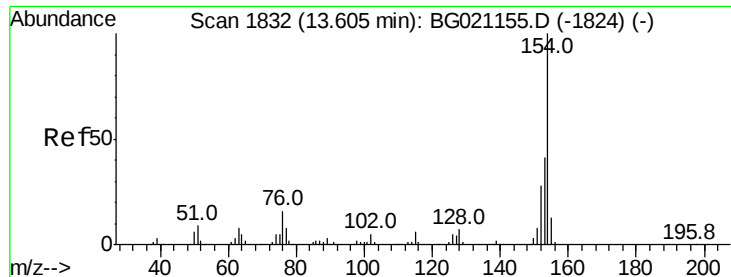
#44  
 2-Fluorobiphenyl  
 Concen: 60.74 ng  
 RT: 13.38 min Scan# 1795  
 Delta R.T. -0.01 min  
 Lab File: BG021166.D  
 Acq: 29 Feb 2016 22:12

Tgt Ion:172 Resp: 109985  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 29.4 44.0  
 170 24.3 19.8 29.8



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





#45

1,1'-Biphenyl

Concen: 0.03 ng

RT: 13.39 min Scan# 1796

Delta R.T. -0.22 min

Lab File: BG021166.D

Acq: 29 Feb 2016 22:12

Instrument :

BNA\_G

ClientSampleId :

SB-40(6-8)

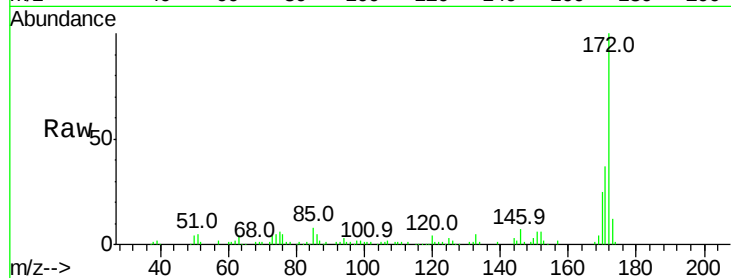
Tot Ion:154 Resp: 54

Ion Ratio Lower Upper

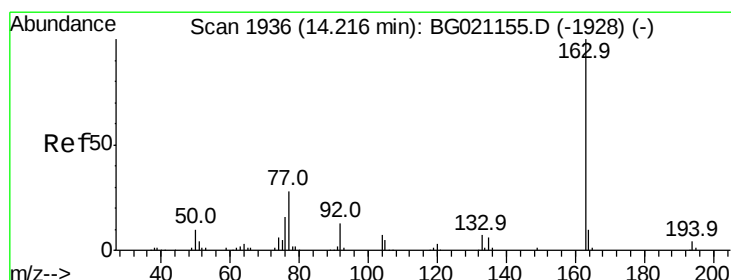
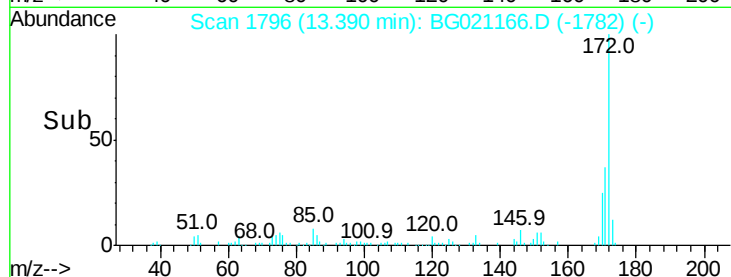
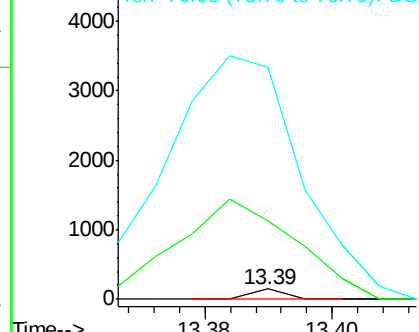
154 100

153 744.1 19.8 59.8#

76 2202.0 0.0 33.6#



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 76.00 (75.70 to 76.70): B



#49

Dimethylphthalate

Concen: 8.80 ng

RT: 14.20 min Scan# 1934

Delta R.T. -0.02 min

Lab File: BG021166.D

Acq: 29 Feb 2016 22:12

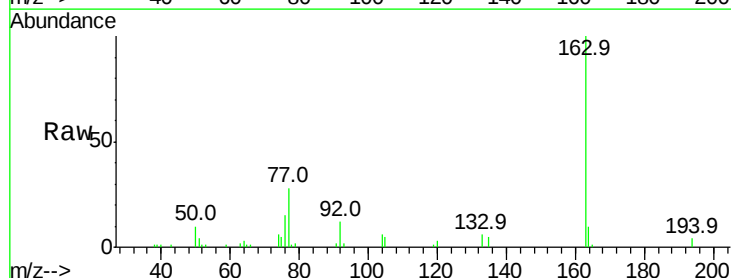
Tgt Ion:163 Resp: 20163

Ion Ratio Lower Upper

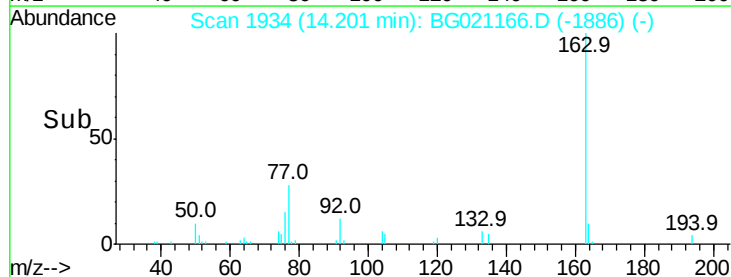
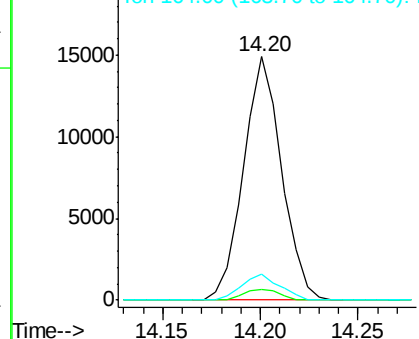
163 100

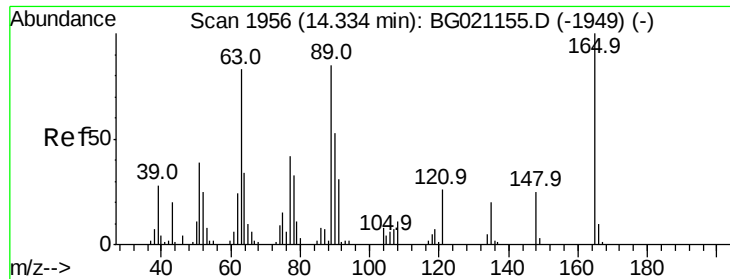
194 4.1 2.8 4.2

164 10.5 7.9 11.9



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

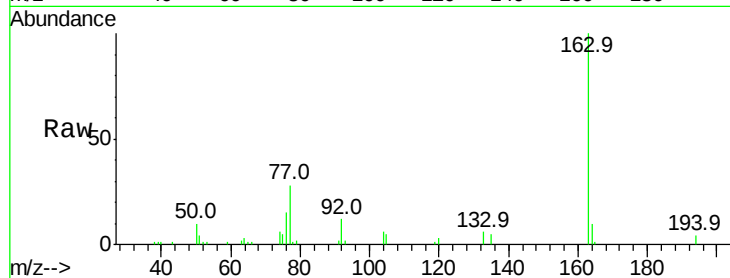




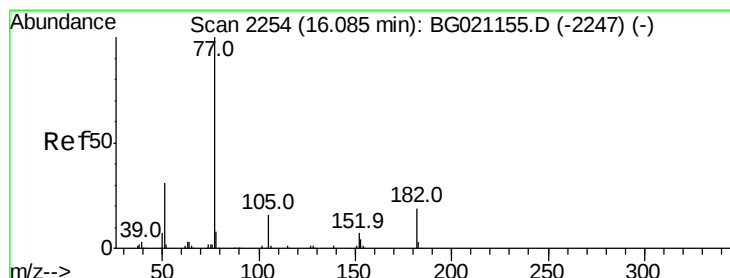
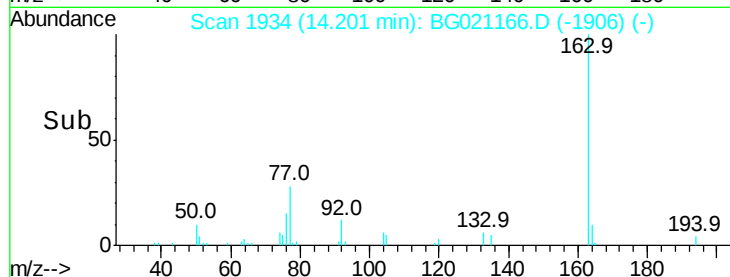
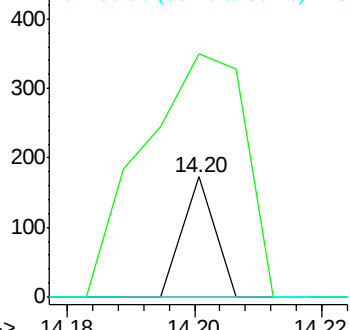
#50  
2,6-Dinitrotoluene  
Concen: 0.13 ng  
RT: 14.20 min Scan# 1934  
Delta R.T. -0.13 min  
Lab File: BG021166.D  
Acq: 29 Feb 2016 22:12

Instrument :  
BNA\_G  
ClientSampleId :  
SB-40(6-8)

Tot Ion:165 Resp: 61  
Ion Ratio Lower Upper  
165 100  
63 202.3 42.1 63.1#  
89 0.0 46.1 69.1#

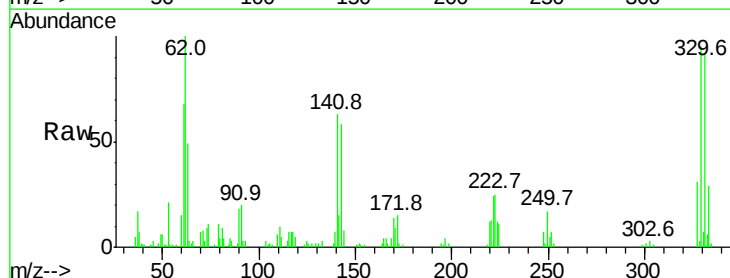


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC

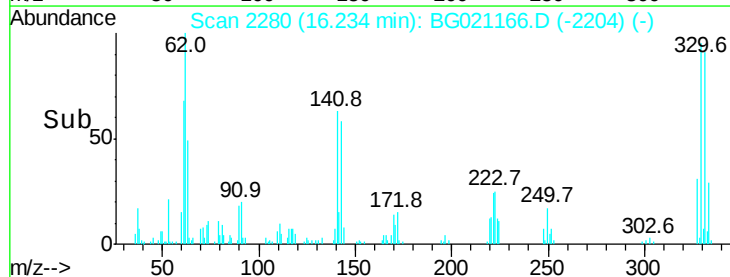
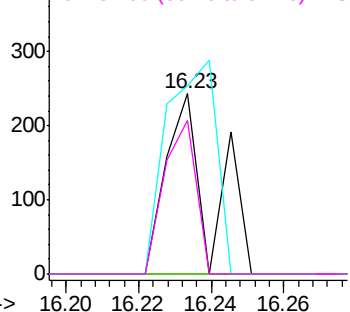


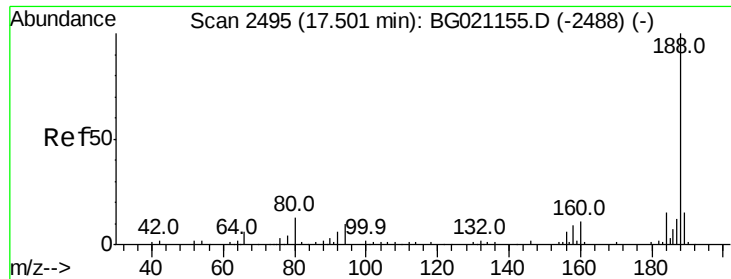
#62  
Azobenzene  
Concen: 0.08 ng  
RT: 16.23 min Scan# 2280  
Delta R.T. 0.15 min  
Lab File: BG021166.D  
Acq: 29 Feb 2016 22:12

Tgt Ion: 77 Resp: 209  
Ion Ratio Lower Upper  
77 100  
182 0.0 0.7 40.7#  
105 104.5 0.0 38.3#  
51 85.2 4.4 44.4#



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

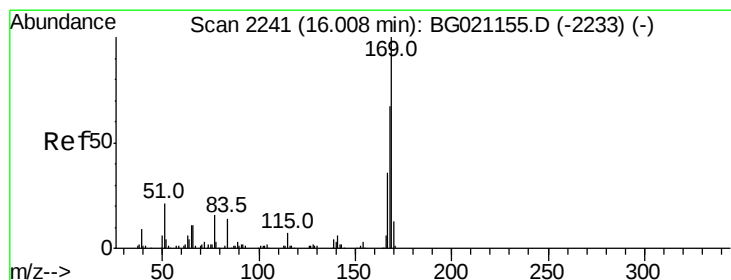
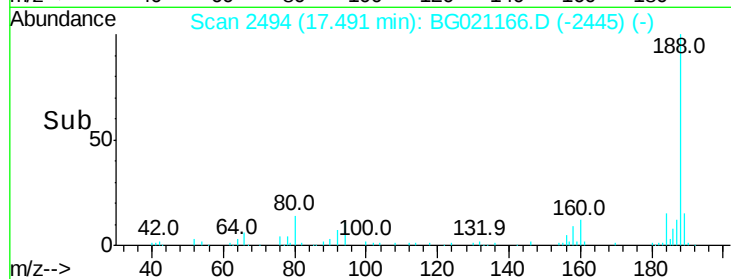
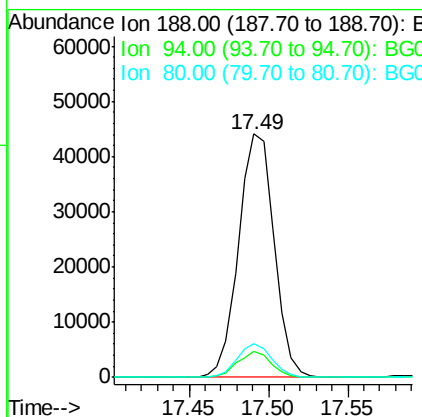
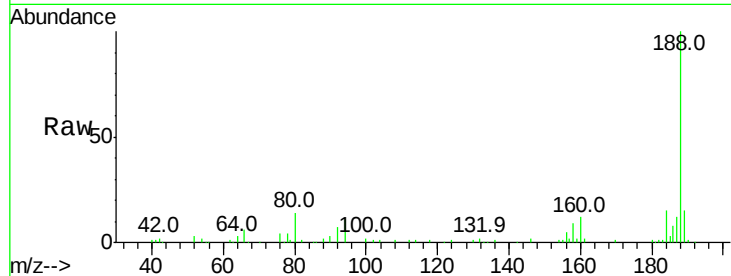




#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 17.49 min Scan# 2494  
 Delta R.T. -0.01 min  
 Lab File: BG021166.D  
 Acq: 29 Feb 2016 22:12

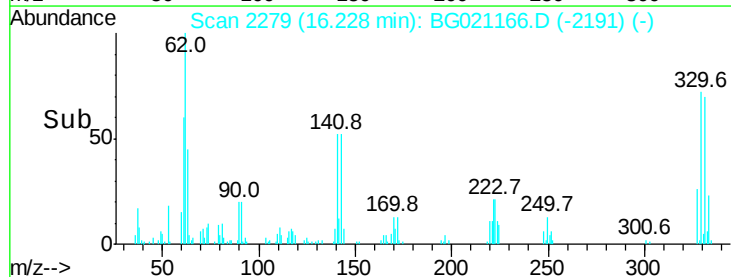
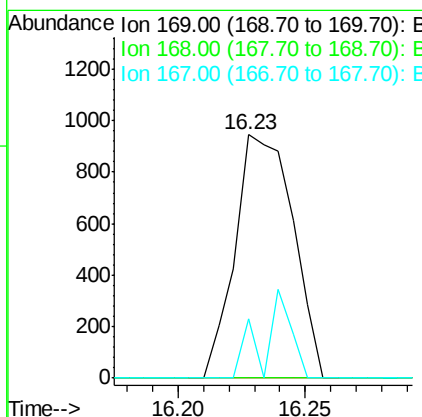
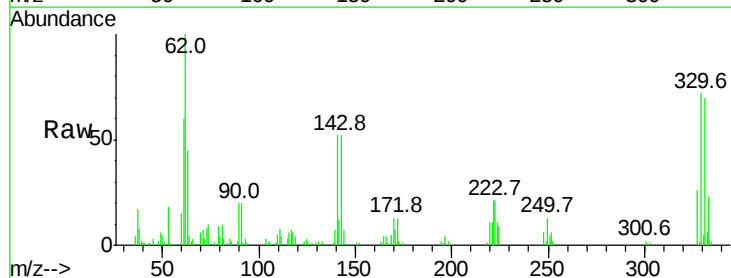
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-40(6-8)

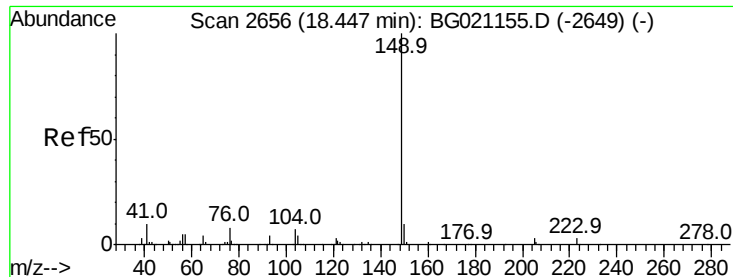
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 188   | Resp: | 68360 |
| Ion      | Ratio | Lower | Upper |
| 188      | 100   |       |       |
| 94       | 10.6  | 8.2   | 12.4  |
| 80       | 13.8  | 9.2   | 13.8  |



#65  
 n-Nitrosodiphenylamine  
 Concen: 0.71 ng  
 RT: 16.23 min Scan# 2279  
 Delta R.T. 0.22 min  
 Lab File: BG021166.D  
 Acq: 29 Feb 2016 22:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 169   | Resp: | 1502  |
| Ion      | Ratio | Lower | Upper |
| 169      | 100   |       |       |
| 168      | 0.0   | 58.2  | 87.2# |
| 167      | 24.4  | 31.0  | 46.6# |





#73

Di-n-butylphthalate

Concen: 0.08 ng

RT: 18.44 min Scan# 2655

Delta R.T. -0.01 min

Lab File: BG021166.D

Acq: 29 Feb 2016 22:12

Instrument :

BNA\_G

ClientSampleId :

SB-40(6-8)

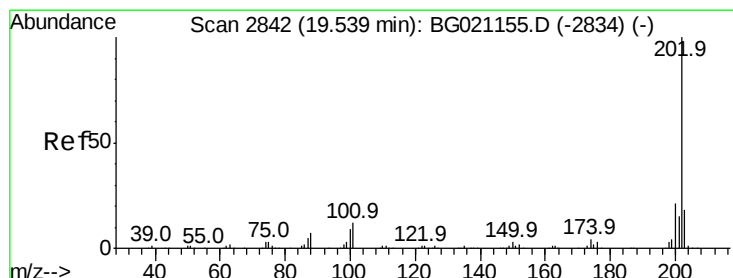
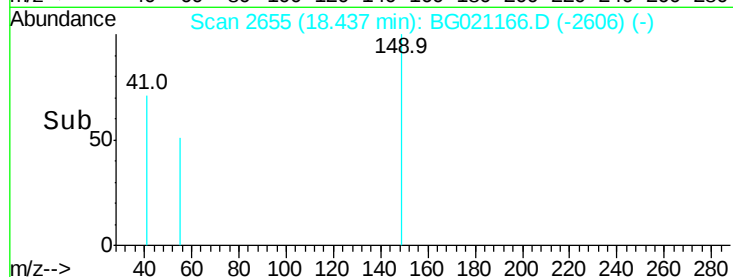
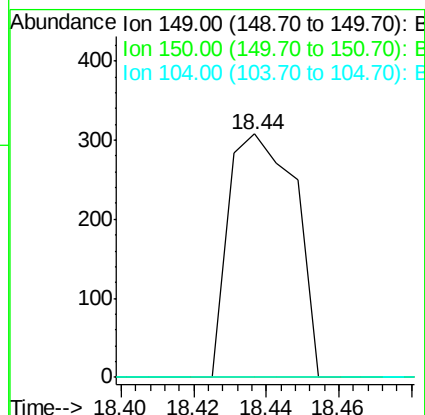
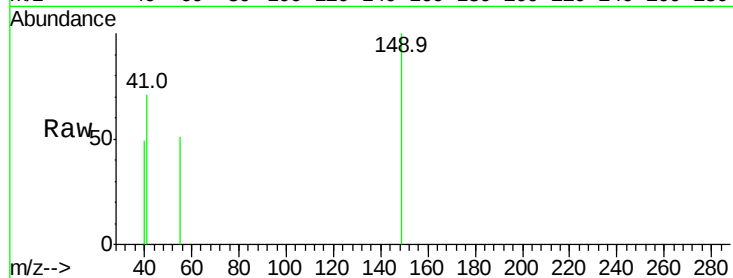
Tot Ion:149 Resp: 392

Ion Ratio Lower Upper

149 100

150 0.0 7.6 11.4#

104 0.0 4.1 6.1#



#74

Fluoranthene

Concen: 0.01 ng

RT: 19.53 min Scan# 2841

Delta R.T. -0.01 min

Lab File: BG021166.D

Acq: 29 Feb 2016 22:12

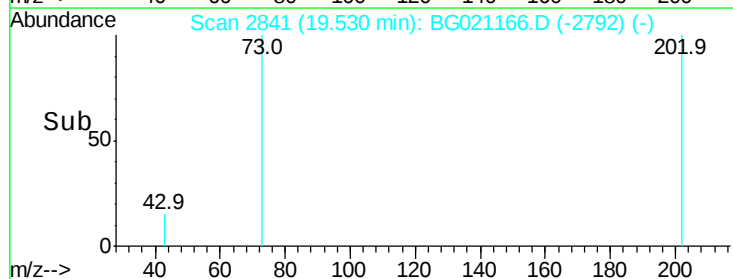
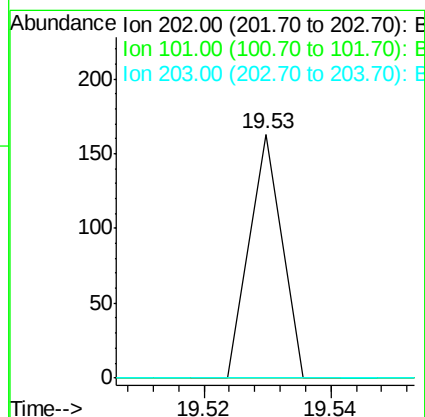
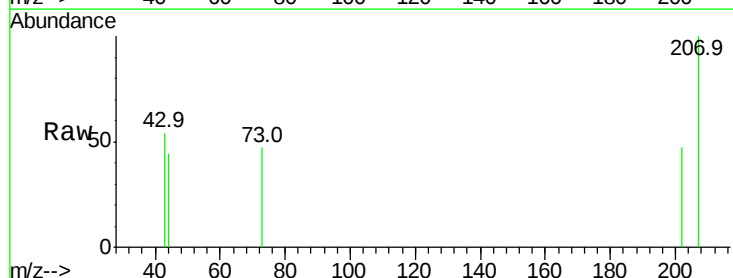
Tgt Ion:202 Resp: 57

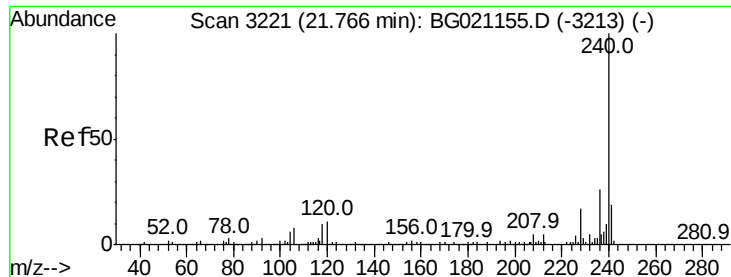
Ion Ratio Lower Upper

202 100

101 0.0 0.0 32.5

203 0.0 0.0 37.6





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.75 min Scan# 3219

Delta R.T. -0.02 min

Lab File: BG021166.D

Acq: 29 Feb 2016 22:12

Instrument :

BNA\_G

ClientSampleId :

SB-40(6-8)

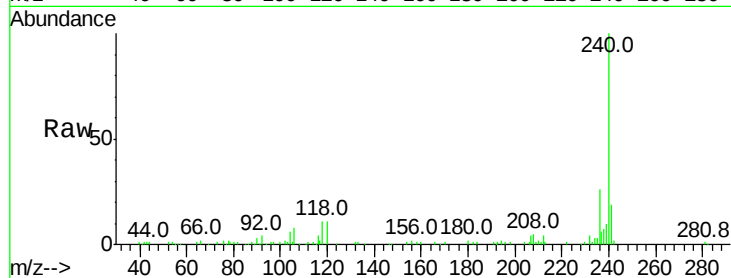
Tot Ion:240 Resp: 71550

Ion Ratio Lower Upper

240 100

120 11.5 7.5 11.3#

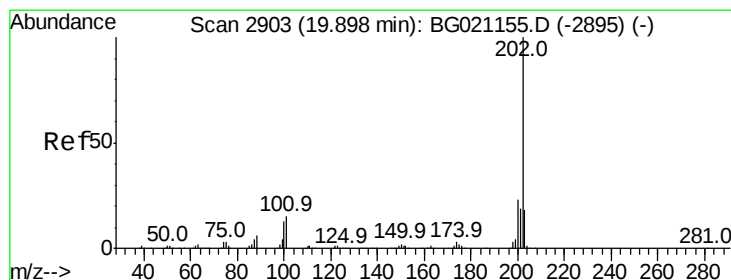
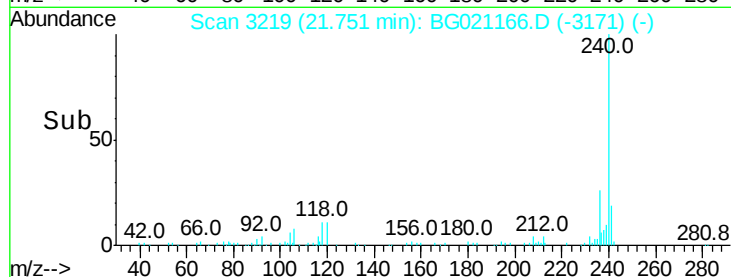
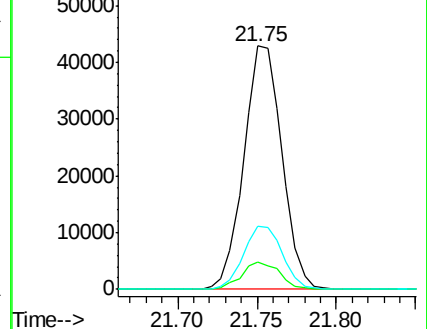
236 25.8 20.5 30.7



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



#77

Pyrene

Concen: 0.01 ng

RT: 19.89 min Scan# 2902

Delta R.T. -0.01 min

Lab File: BG021166.D

Acq: 29 Feb 2016 22:12

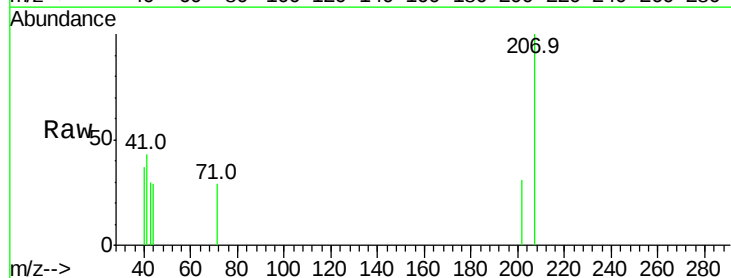
Tgt Ion:202 Resp: 57

Ion Ratio Lower Upper

202 100

200 0.0 16.6 25.0#

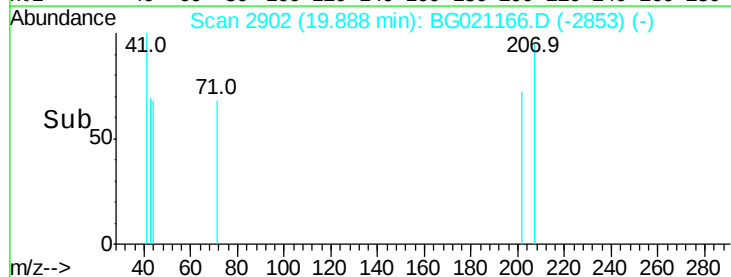
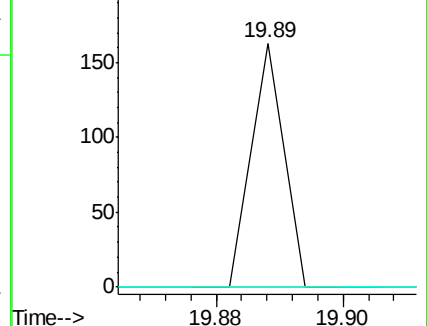
203 0.0 13.8 20.8#

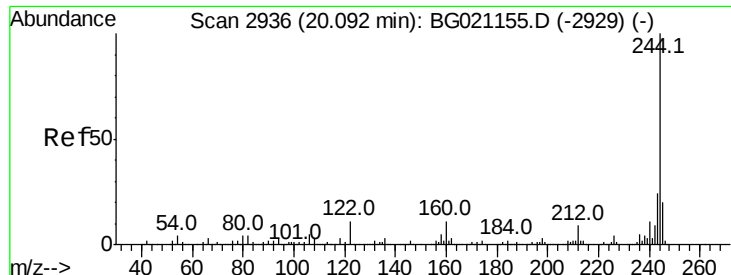


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 65.76 ng

RT: 20.08 min Scan# 2935

Delta R.T. -0.01 min

Lab File: BG021166.D

Acq: 29 Feb 2016 22:12

Instrument :

BNA\_G

ClientSampleId :

SB-40(6-8)

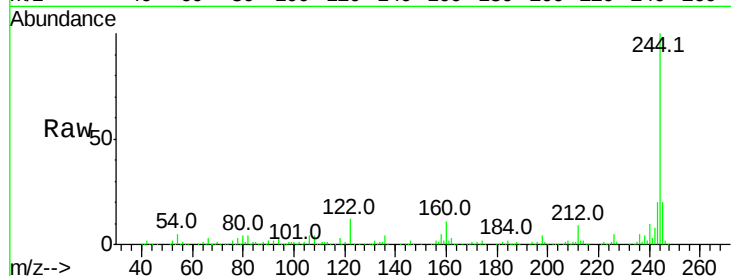
Tot Ion:244 Resp: 194209

Ion Ratio Lower Upper

244 100

212 8.7 5.8 8.6#

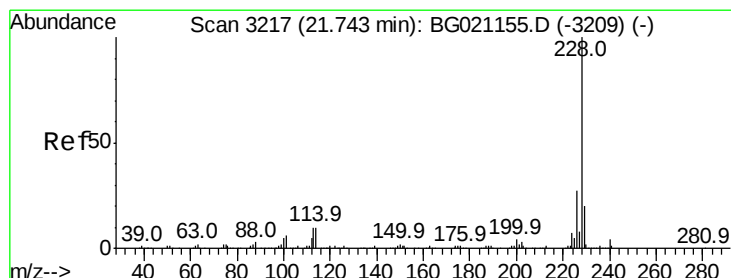
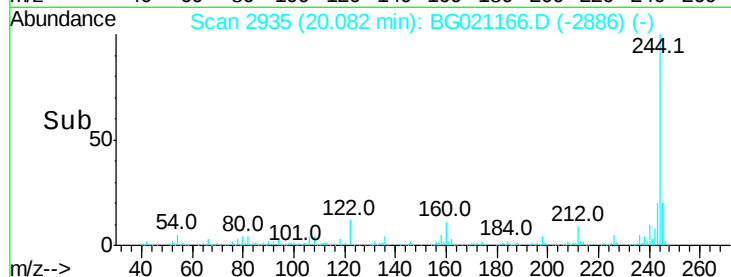
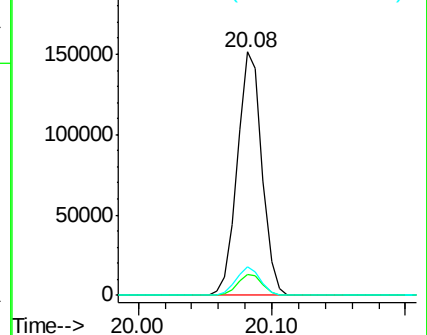
122 11.6 8.3 12.5



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: 0.04 ng

RT: 21.75 min Scan# 3219

Delta R.T. 0.01 min

Lab File: BG021166.D

Acq: 29 Feb 2016 22:12

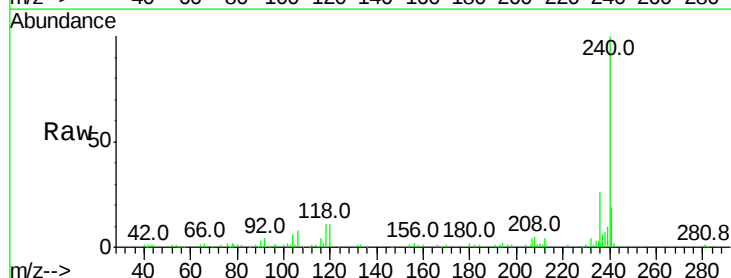
Tgt Ion:228 Resp: 180

Ion Ratio Lower Upper

228 100

226 0.0 22.7 34.1#

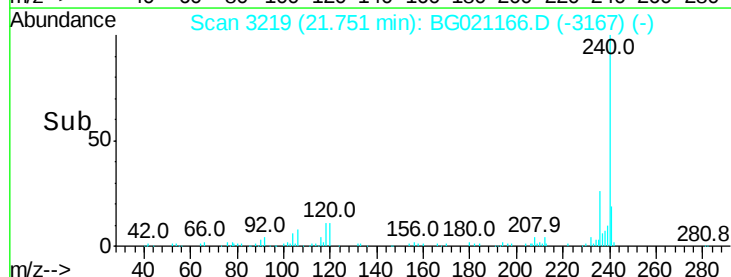
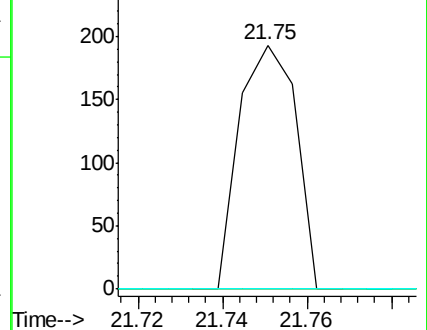
229 0.0 15.5 23.3#

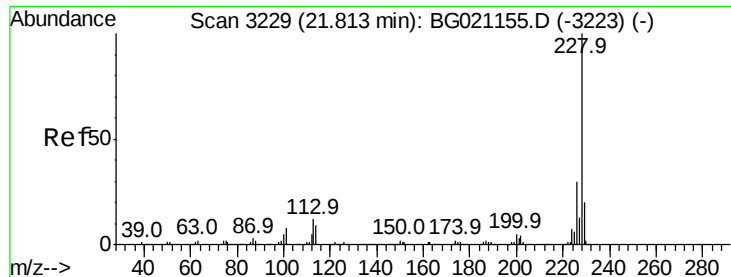


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 0.04 ng

RT: 21.75 min Scan# 3219

Delta R.T. -0.06 min

Lab File: BG021166.D

Acq: 29 Feb 2016 22:12

Instrument :

BNA\_G

ClientSampleId :

SB-40(6-8)

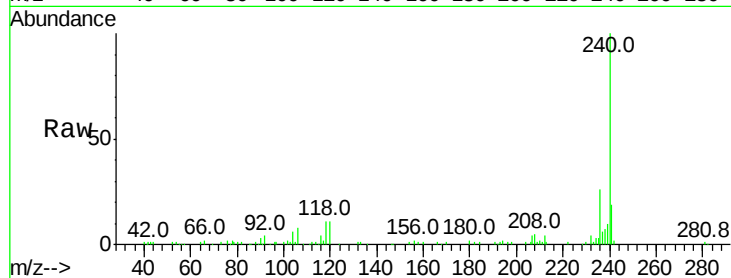
Tot Ion:228 Resp: 180

Ion Ratio Lower Upper

228 100

226 0.0 23.7 35.5#

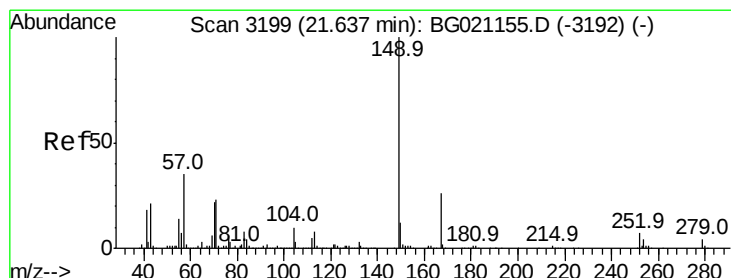
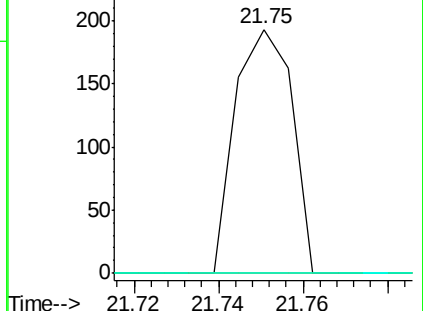
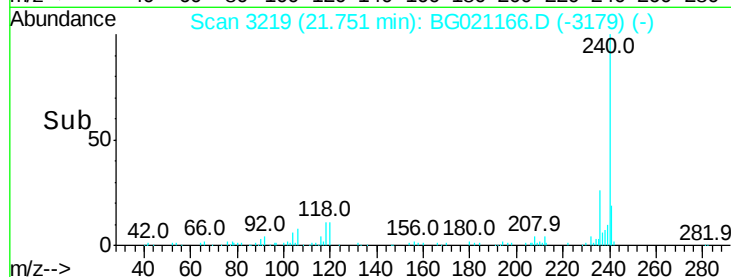
229 0.0 16.7 25.1#



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



#83

Bis(2-ethylhexyl)phthalate

Concen: 0.55 ng

RT: 21.63 min Scan# 3199

Delta R.T. -0.00 min

Lab File: BG021166.D

Acq: 29 Feb 2016 22:12

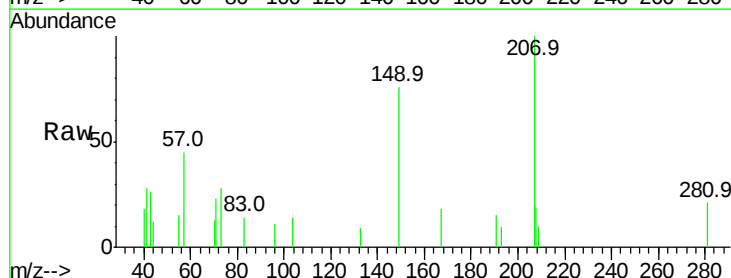
Tgt Ion:149 Resp: 1743

Ion Ratio Lower Upper

149 100

167 24.2 18.9 28.3

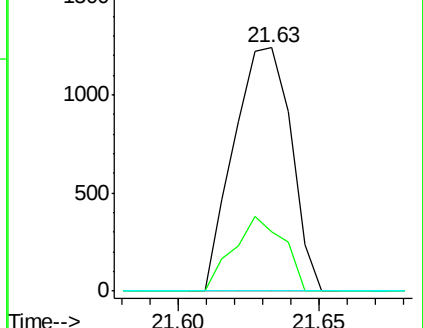
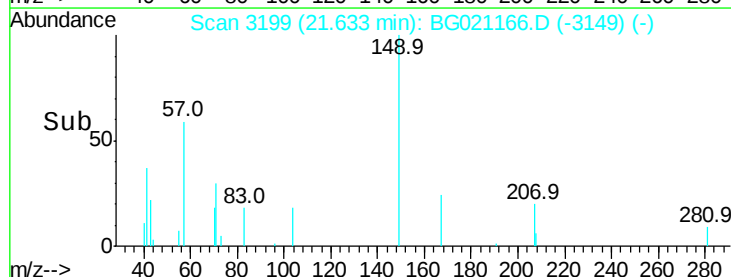
279 0.0 3.0 4.6#

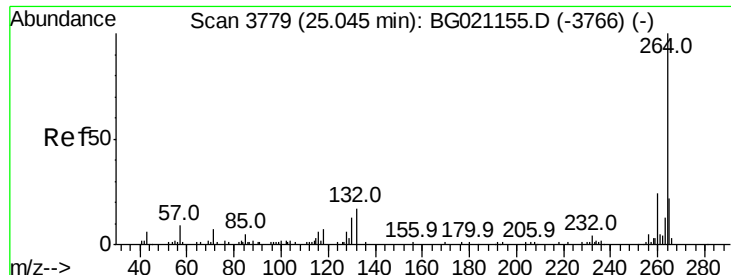


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

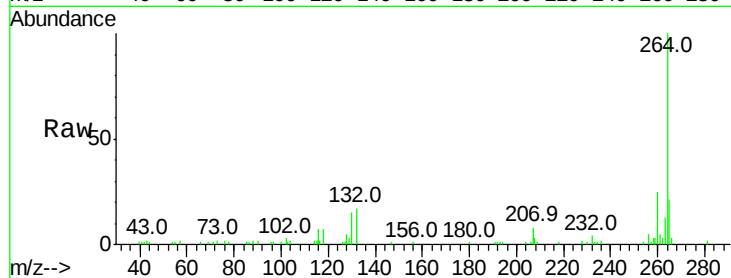




#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 25.03 min Scan# 3777  
 Delta R.T. -0.02 min  
 Lab File: BG021166.D  
 Acq: 29 Feb 2016 22:12

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-40(6-8)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 18.5  | 27.7  |
| 265     | 20.8  | 18.6  | 28.0  |



Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

