

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_G\DATA\BG011518\  
 Data File : BG032051.D  
 Acq On : 16 Jan 2018 3:36  
 Operator : SJ/JU  
 Sample : J1113-17  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-19-2.5-3.0

Quant Time: Jan 16 06:28:07 2018  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG011218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 15 10:05:15 2018  
 Response via : Initial Calibration

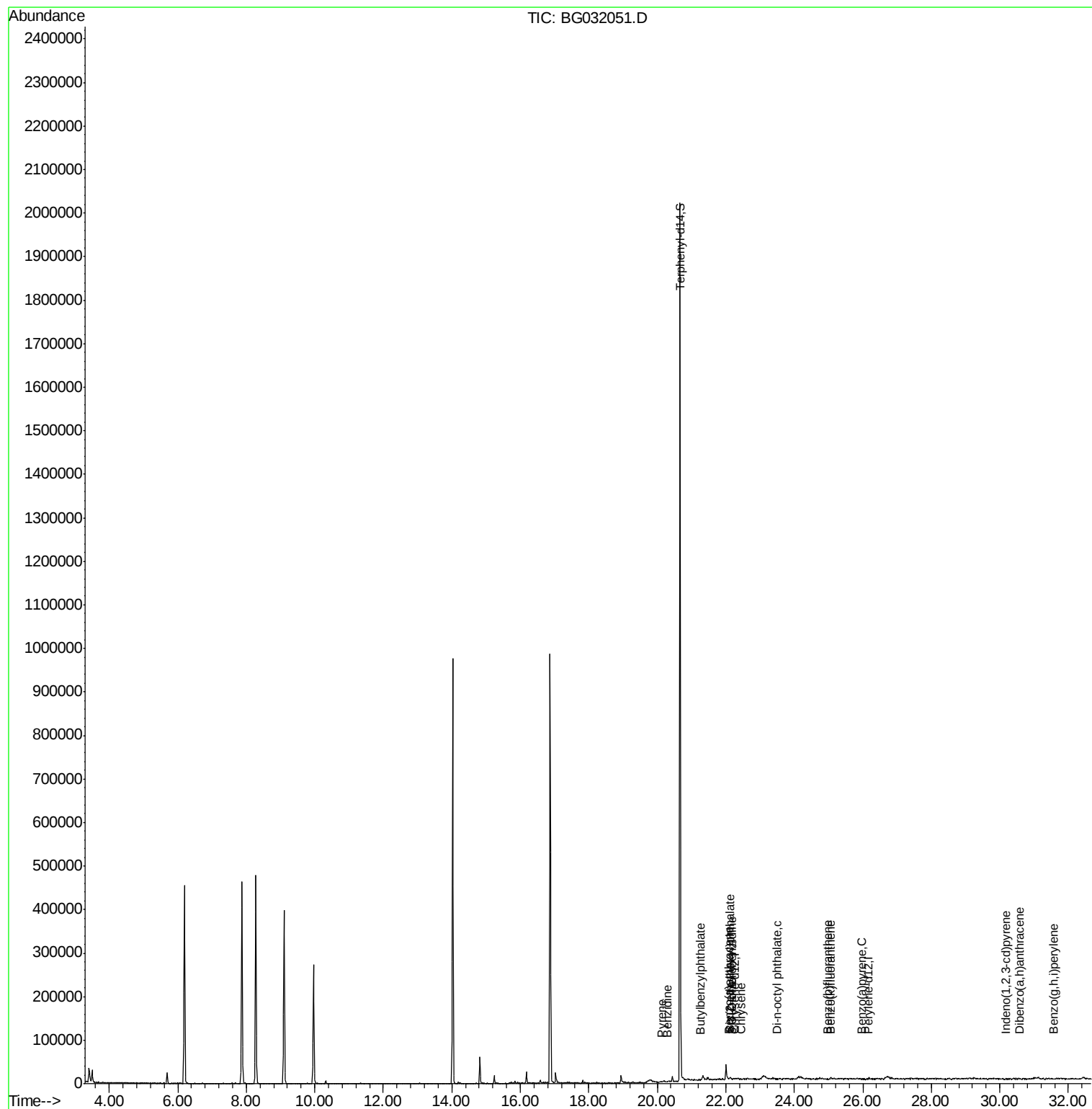
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 0.00  | 152  | 0        | 0.00      | ng    | -8.77    |
| 21) Naphthalene-d8             | 0.00  | 136  | 0        | 0.00      | ng    | -11.66   |
| 38) Acenaphthene-d10           | 0.00  | 164  | 0        | 0.00      | ng    | -15.40   |
| 63) Phenanthrene-d10           | 0.00  | 188  | 0        | 0.00      | ng    | -18.14   |
| 75) Chrysene-d12               | 22.26 | 240  | 68       | 20.00     | ng    | -0.22    |
| 86) Perylene-d12               | 26.17 | 264  | 68       | 20.00     | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 6.19  | 112  | 239539   | 0.00      | ng    | 0.00     |
| 7) Phenol-d6                   | 7.87  | 99   | 302379   | 0.00      | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.96  | 82   | 176275   | 0.00      | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 16.87 | 330  | 223657   | 0.00      | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 14.03 | 172  | 578307   | 0.00      | ng    | 0.00     |
| 78) Terphenyl-d14              | 20.66 | 244  | 1167831  | 379209.15 | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 76) Benzidine                  | 20.30 | 184  | 56       | 32.933    | ng    | # 66     |
| 77) Pyrene                     | 20.13 | 202  | 217      | 50.763    | ng    | # 57     |
| 79) Butylbenzylphthalate       | 21.26 | 149  | 55       | 35.910    | ng    | # 20     |
| 80) Benzo(a)anthracene         | 22.10 | 228  | 62       | 14.661    | ng    | # 50     |
| 81) 3,3'-Dichlorobenzidine     | 22.18 | 252  | 78       | 49.374    | ng    | # 26     |
| 82) Chrysene                   | 22.45 | 228  | 76       | 18.713    | ng    | # 49     |
| 83) Bis(2-ethylhexyl)phthalate | 22.14 | 149  | 1926     | 857.548   | ng    | # 50     |
| 84) Di-n-octyl phthalate       | 23.49 | 149  | 124      | 34.762    | ng    | # 1      |
| 85) Indeno(1,2,3-cd)pyrene     | 30.17 | 276  | 54       | 10.865    | ng    | # 53     |
| 87) Benzo(b)fluoranthene       | 24.98 | 252  | 100      | 24.330    | ng    | # 59     |
| 88) Benzo(k)fluoranthene       | 25.05 | 252  | 157      | 39.090    | ng    | # 36     |
| 89) Benzo(a)pyrene             | 25.98 | 252  | 129      | 33.178    | ng    | # 59     |
| 90) Dibenzo(a,h)anthracene     | 30.57 | 278  | 92       | 24.555    | ng    | # 58     |
| 91) Benzo(g,h,i)perylene       | 31.58 | 276  | 54       | 14.101    | ng    | # 56     |

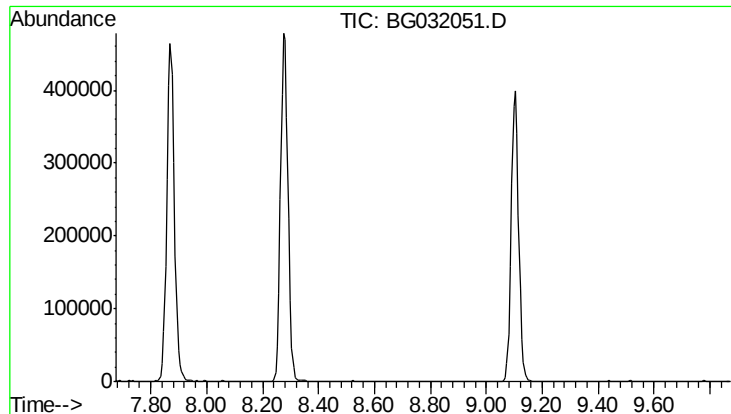
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_G\DATA\BG011518\  
Data File : BG032051.D  
Acq On : 16 Jan 2018 3:36  
Operator : SJ/JU  
Sample : J1113-17  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SB-19-2.5-3.0

Quant Time: Jan 16 06:28:07 2018  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG011218.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 15 10:05:15 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.000 ng

Expected RT: 8.77 min

Lab File: BG032051.D

Acq: 16 Jan 2018 3:36

Instrument :

BNA\_G

ClientSampleId :

SB-19-2.5-3.0

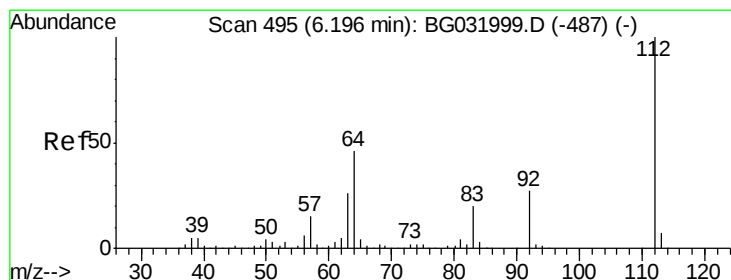
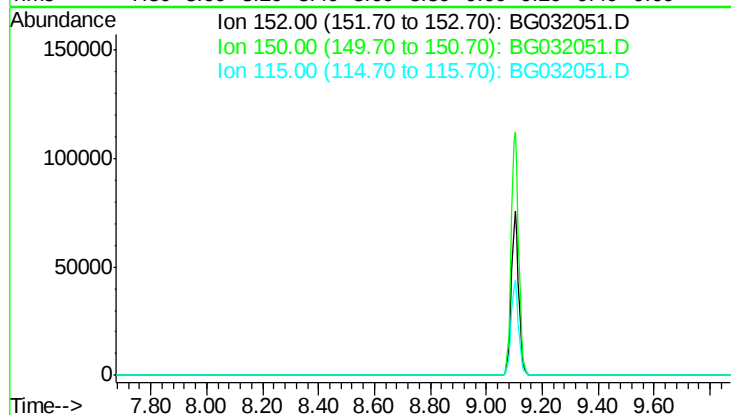
Tgt Ion: 152

Sig Exp Ratio

152 100

150 158.2

115 66.2



#5

2-Fluorophenol

Concen: 0.000 ng

RT: 6.19 min Scan# 494

Delta R.T. -0.01 min

Lab File: BG032051.D

Acq: 16 Jan 2018 3:36

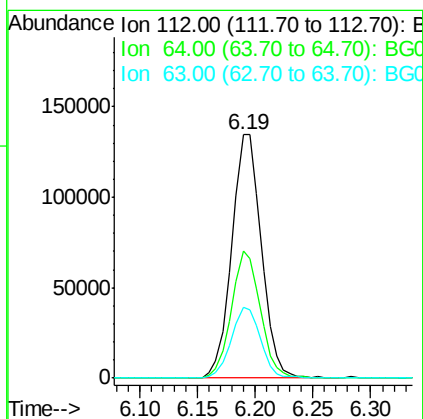
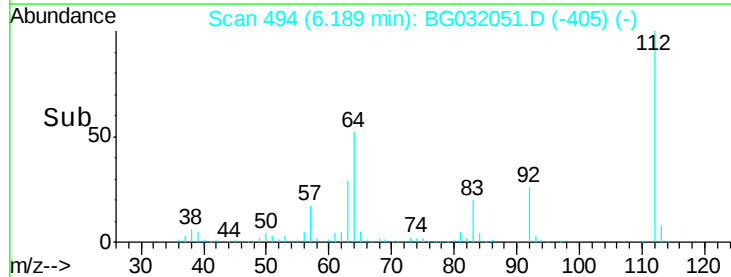
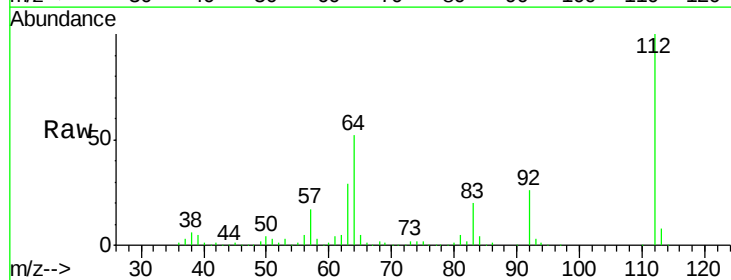
Tgt Ion: 112 Resp: 239539

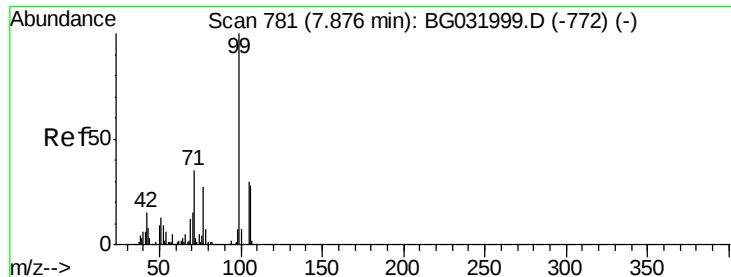
Ion Ratio Lower Upper

112 100

64 52.4 56.3 84.5#

63 28.8 30.1 45.1#





#7

Phenol-d6

Concen: 0.000 ng

RT: 7.87 min Scan# 780

Delta R.T. -0.01 min

Lab File: BG032051.D

Acq: 16 Jan 2018 3:36

Instrument :

BNA\_G

ClientSampleId :

SB-19-2.5-3.0

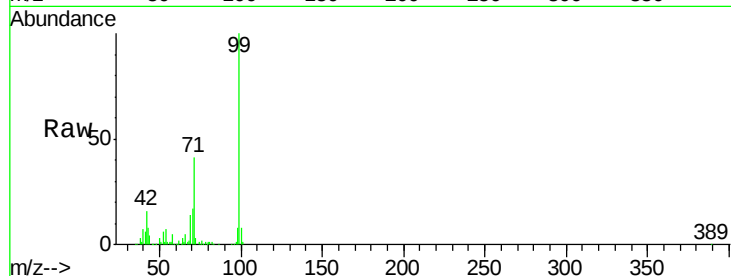
Tgt Ion: 99 Resp: 302379

Ion Ratio Lower Upper

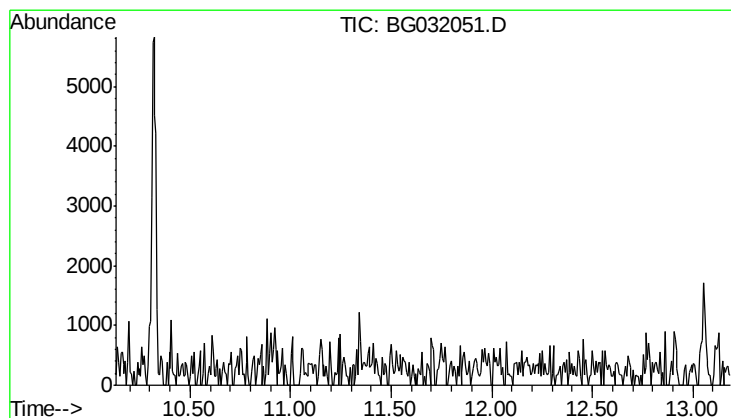
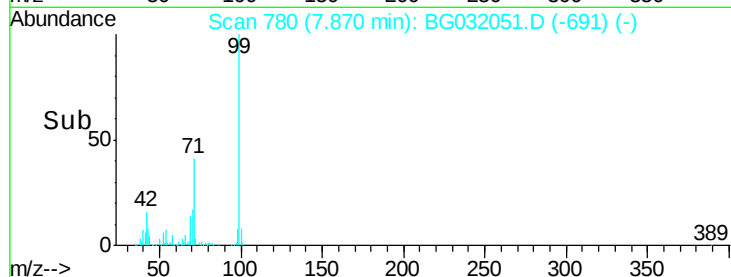
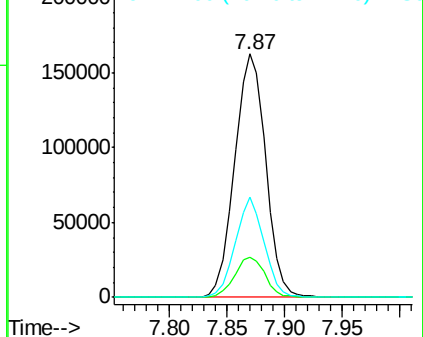
99 100

42 16.3 14.1 21.1

71 41.3 26.1 39.1#



Abundance Ion 99.00 (98.70 to 99.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 71.00 (70.70 to 71.70): BGC



#21

Naphthalene-d8

Concen: 0.000 ng

Expected RT: 11.66 min

Lab File: BG032051.D

Acq: 16 Jan 2018 3:36

Tgt Ion: 136

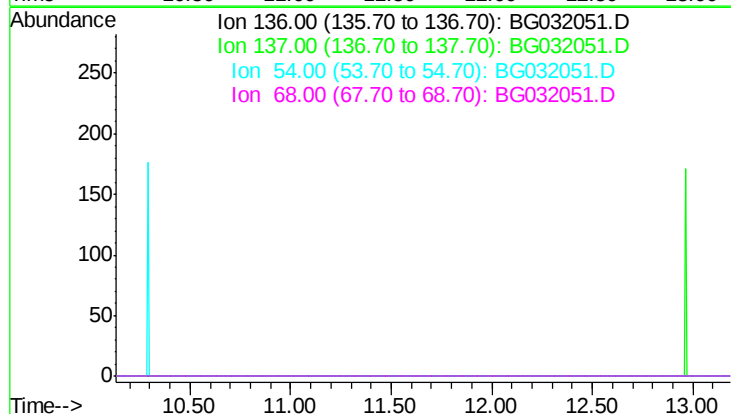
Sig Exp Ratio

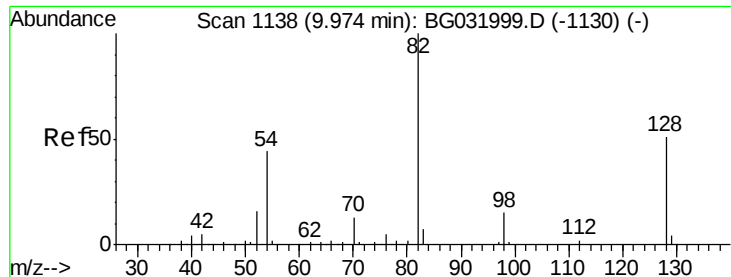
136 100

137 11.5

54 12.9

68 5.6

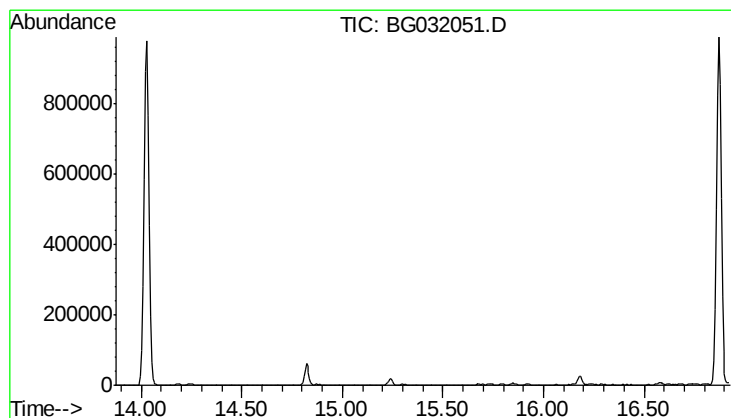
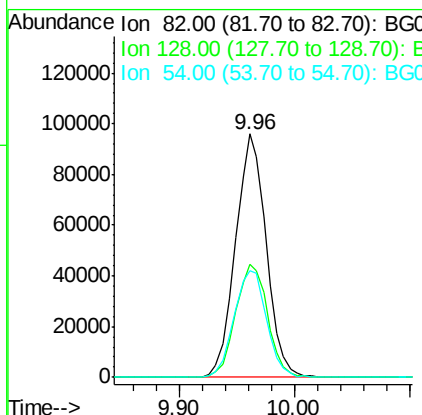
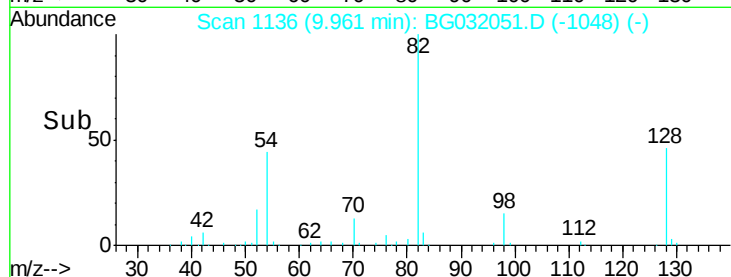
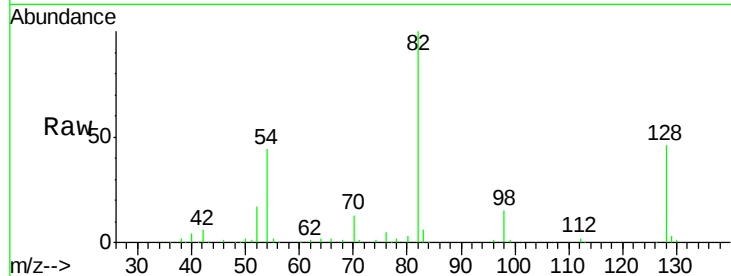




#23  
 Nitrobenzene-d5  
 Concen: 0.000 ng  
 RT: 9.96 min Scan# 1136  
 Delta R.T. -0.01 min  
 Lab File: BG032051.D  
 Acq: 16 Jan 2018 3:36

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-19-2.5-3.0

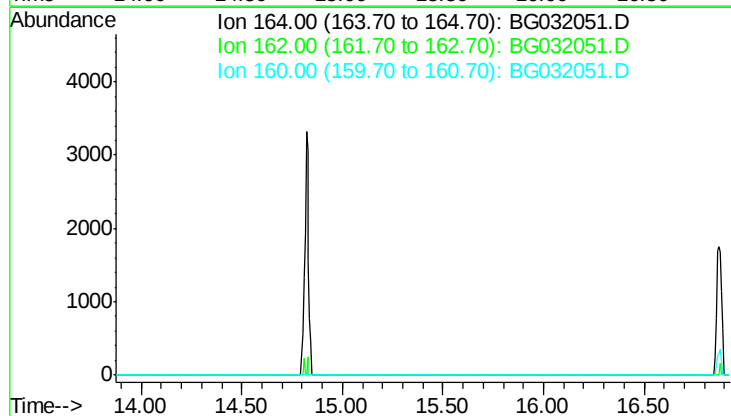
| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 82      | 176275 |       |       |
| 128     | 46.3   | 29.7  | 44.5# |
| 54      | 43.9   | 43.1  | 64.7  |

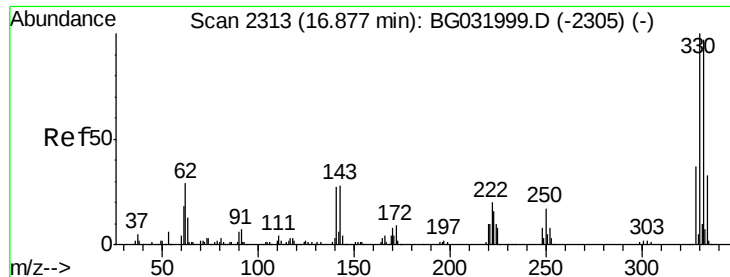


#38  
 Acenaphthene-d10  
 Concen: 0.000 ng  
 Expected RT: 15.40 min

Lab File: BG032051.D  
 Acq: 16 Jan 2018 3:36

| Tgt Ion | Sig  | Exp Ratio |
|---------|------|-----------|
| 164     | 100  |           |
| 162     | 98.5 |           |
| 160     | 44.2 |           |

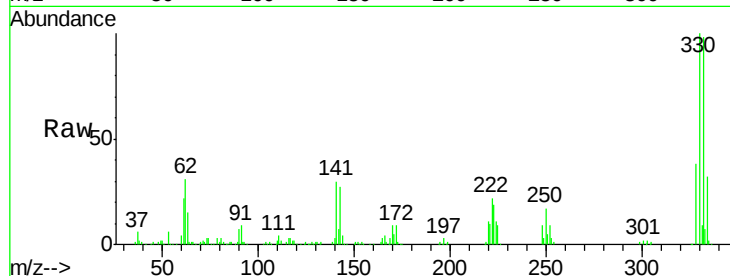




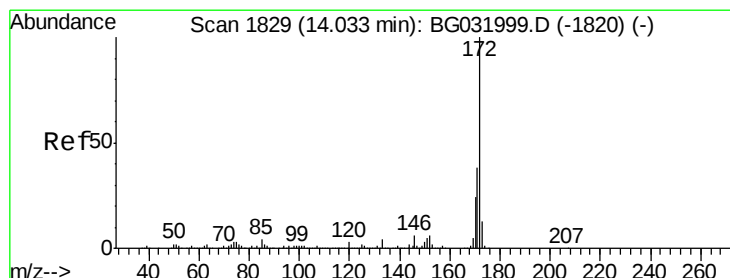
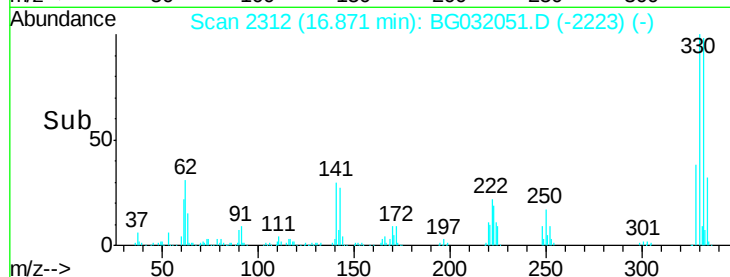
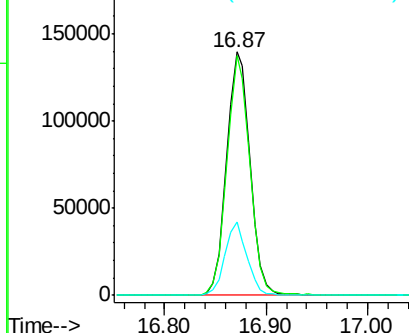
#41  
 2,4,6-Tribromophenol  
 Concen: 0.000 ng  
 RT: 16.87 min Scan# 2312  
 Delta R.T. -0.01 min  
 Lab File: BG032051.D  
 Acq: 16 Jan 2018 3:36

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-19-2.5-3.0

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.6  | 77.0  | 115.6 |
| 141     | 28.5  | 25.2  | 37.8  |

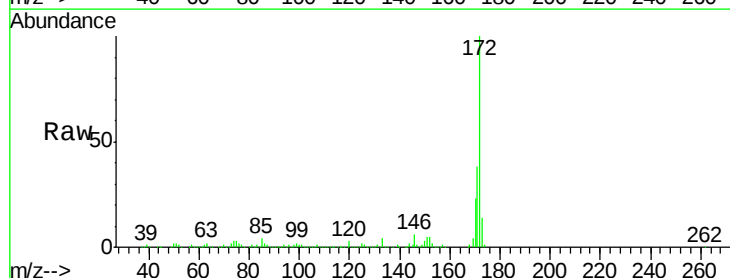


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

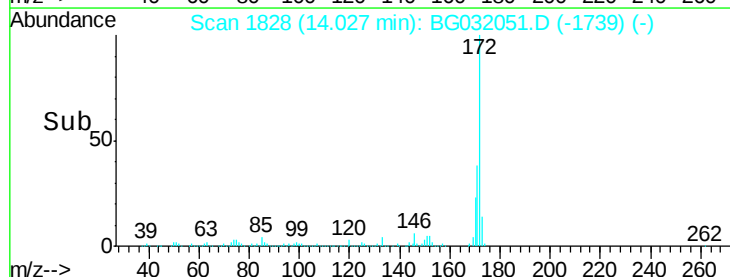
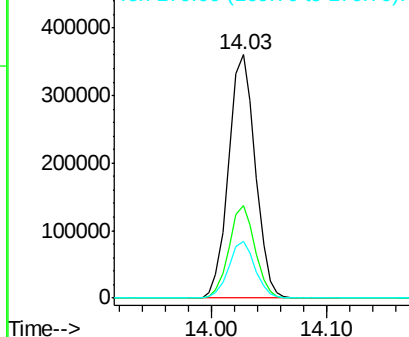


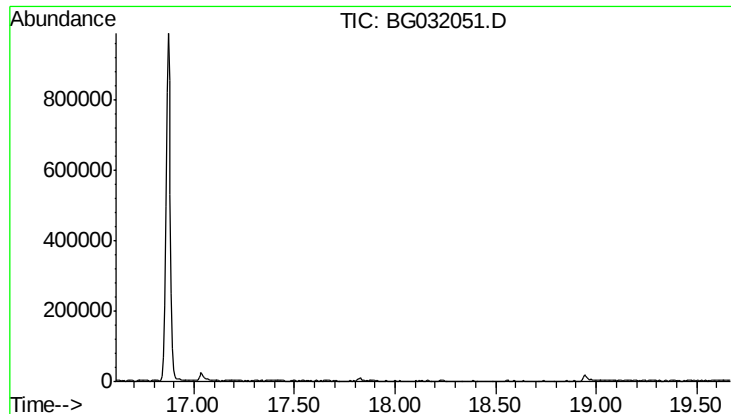
#44  
 2-Fluorobiphenyl  
 Concen: 0.000 ng  
 RT: 14.03 min Scan# 1828  
 Delta R.T. -0.01 min  
 Lab File: BG032051.D  
 Acq: 16 Jan 2018 3:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.8  | 30.0  | 45.0  |
| 170     | 23.2  | 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

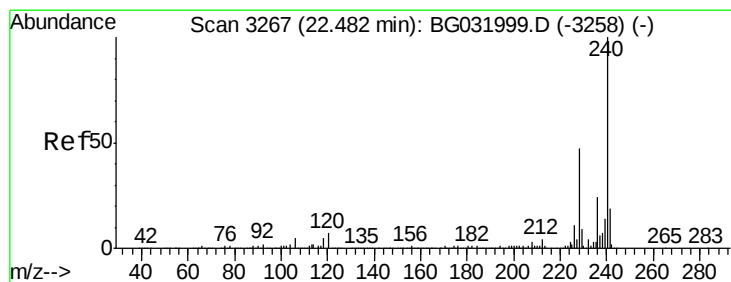
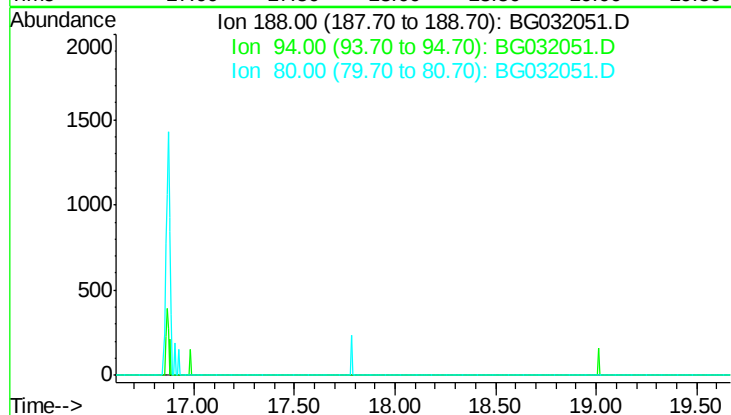




#63  
 Phenanthrene-d10  
 Concen: 0.000 ng  
 Expected RT: 18.14 min  
 Lab File: BG032051.D  
 Acq: 16 Jan 2018 3:36

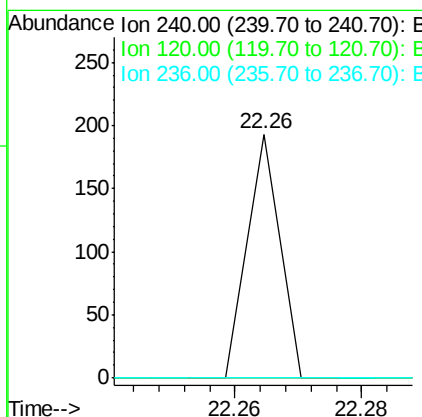
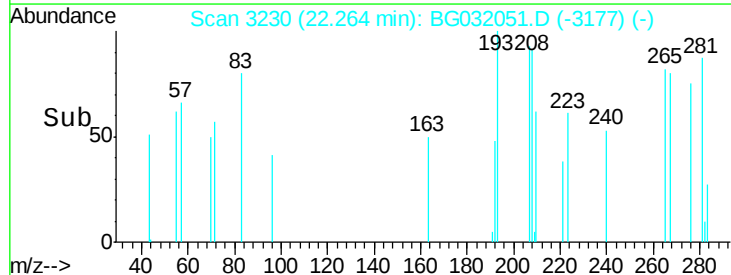
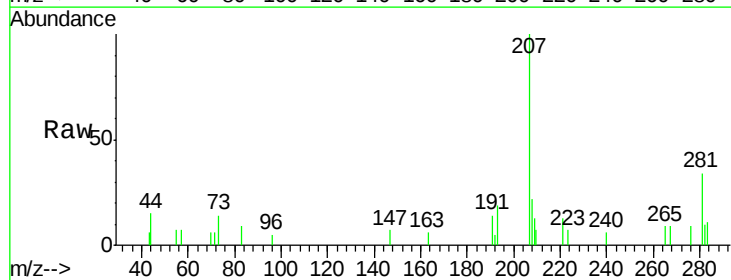
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-19-2.5-3.0

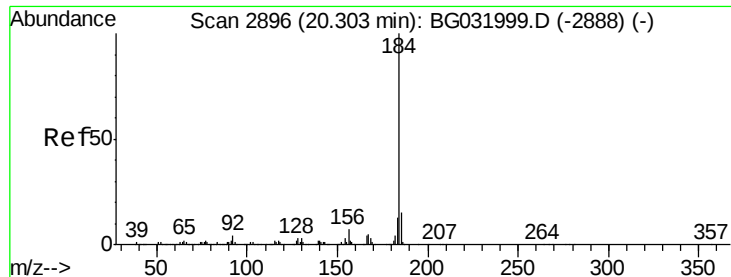
Tgt Ion: 188  
 Sig Exp Ratio  
 188 100  
 94 8.6  
 80 9.6



#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 22.26 min Scan# 3230  
 Delta R.T. -0.22 min  
 Lab File: BG032051.D  
 Acq: 16 Jan 2018 3:36

Tgt Ion: 240 Resp: 68  
 Ion Ratio Lower Upper  
 240 100  
 120 0.0 6.8 10.2#  
 236 0.0 20.9 31.3#

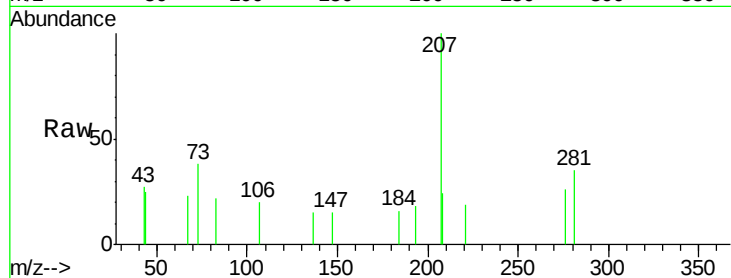




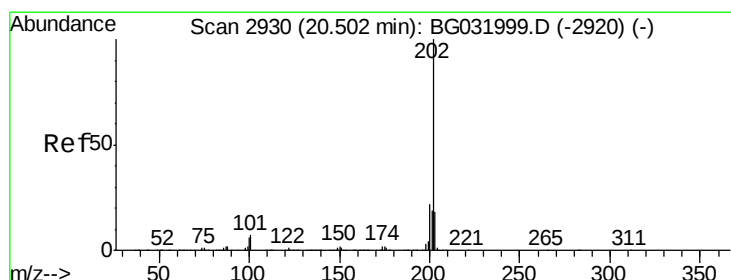
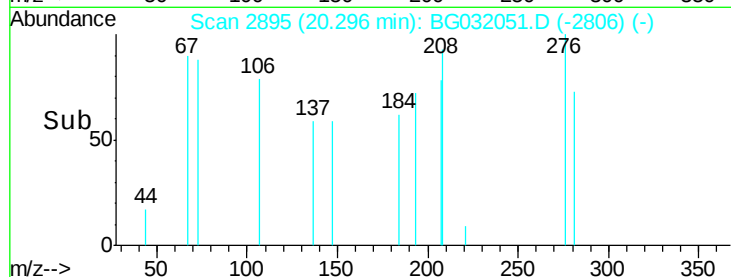
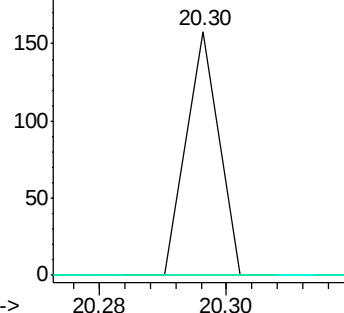
#76  
Benzidine  
Concen: 32.933 ng  
RT: 20.30 min Scan# 2895  
Delta R.T. -0.01 min  
Lab File: BG032051.D  
Acq: 16 Jan 2018 3:36

Instrument :  
BNA\_G  
ClientSampleId :  
SB-19-2.5-3.0

Tgt Ion:184 Resp: 56  
Ion Ratio Lower Upper  
184 100  
185 0.0 11.1 16.7#  
183 0.0 10.6 16.0#

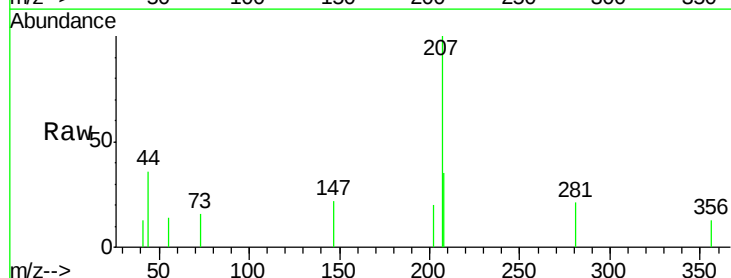


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E

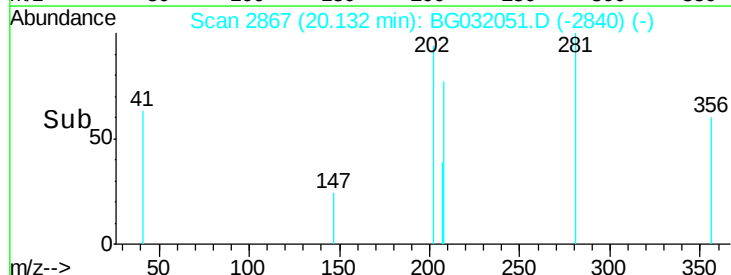
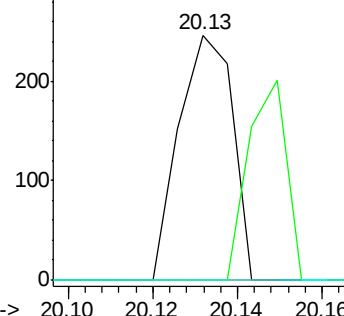


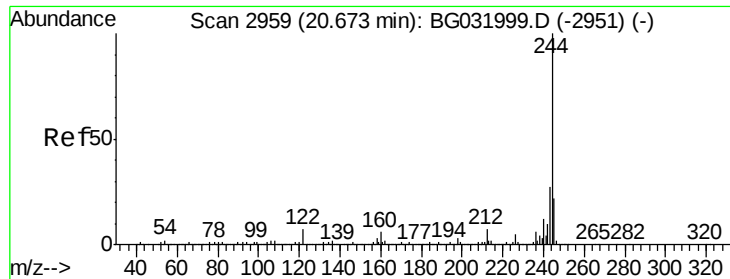
#77  
Pyrene  
Concen: 50.763 ng  
RT: 20.13 min Scan# 2867  
Delta R.T. -0.37 min  
Lab File: BG032051.D  
Acq: 16 Jan 2018 3:36

Tgt Ion:202 Resp: 217  
Ion Ratio Lower Upper  
202 100  
200 0.0 16.9 25.3#  
203 0.0 13.9 20.9#



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: 379209.146 ng

RT: 20.66 min Scan# 2957

Delta R.T. -0.01 min

Lab File: BG032051.D

Acq: 16 Jan 2018 3:36

Instrument :

BNA\_G

ClientSampleId :

SB-19-2.5-3.0

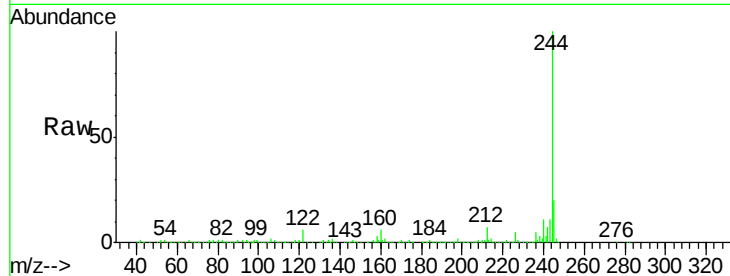
Tgt Ion:244 Resp: 1167831

Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.8

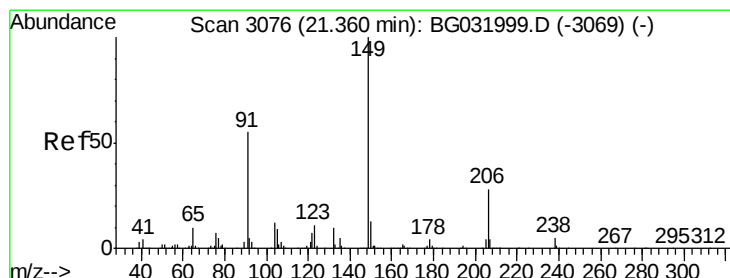
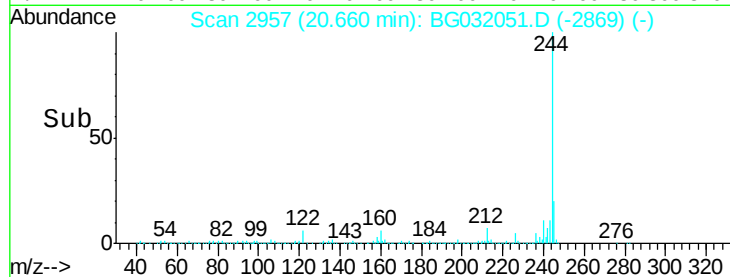
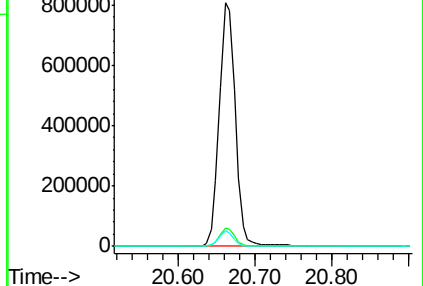
122 6.3 7.0 10.4#



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



#79

Butylbenzylphthalate

Concen: 35.910 ng

RT: 21.26 min Scan# 3059

Delta R.T. -0.10 min

Lab File: BG032051.D

Acq: 16 Jan 2018 3:36

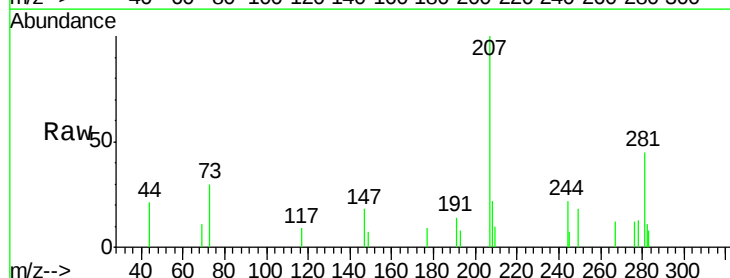
Tgt Ion:149 Resp: 55

Ion Ratio Lower Upper

149 100

91 0.0 62.2 93.2#

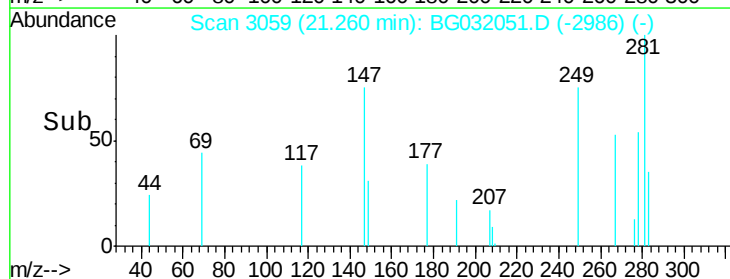
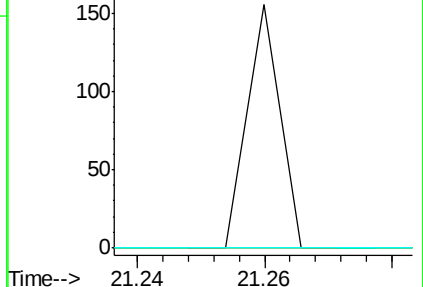
206 0.0 18.6 27.8#

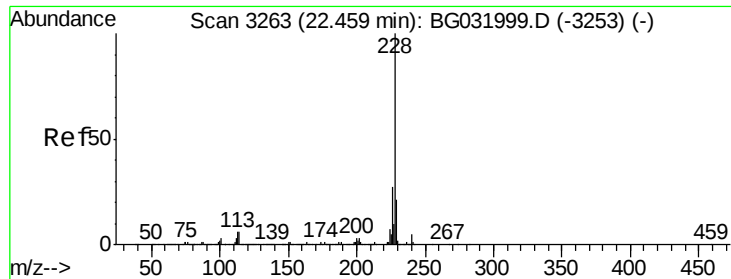


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BG

Ion 206.00 (205.70 to 206.70): E





#80

Benzo(a)anthracene

Concen: 14.661 ng

RT: 22.10 min Scan# 3202

Delta R.T. -0.36 min

Lab File: BG032051.D

Acq: 16 Jan 2018 3:36

Instrument :

BNA\_G

ClientSampleId :

SB-19-2.5-3.0

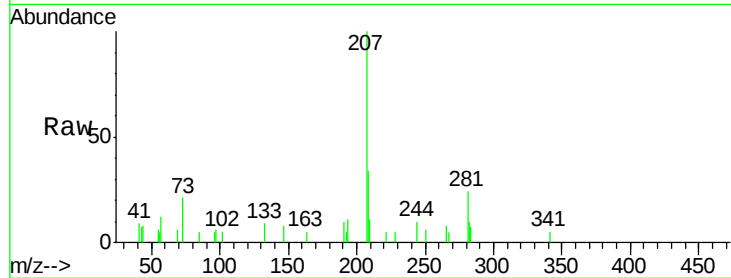
Tgt Ion:228 Resp: 62

Ion Ratio Lower Upper

228 100

226 0.0 22.7 34.1#

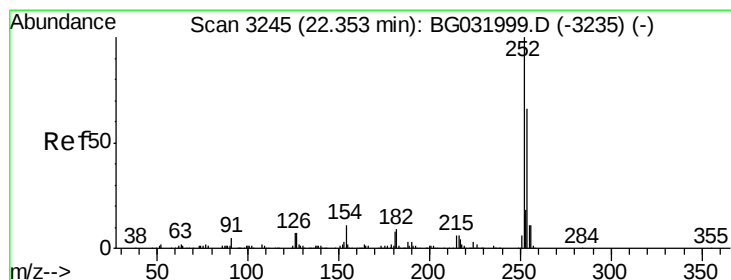
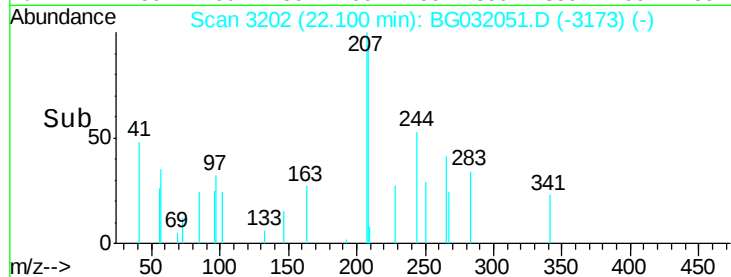
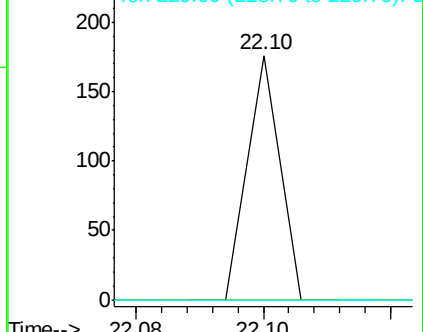
229 0.0 16.2 24.2#



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



#81

3,3'-Dichlorobenzidine

Concen: 49.374 ng

RT: 22.18 min Scan# 3215

Delta R.T. -0.18 min

Lab File: BG032051.D

Acq: 16 Jan 2018 3:36

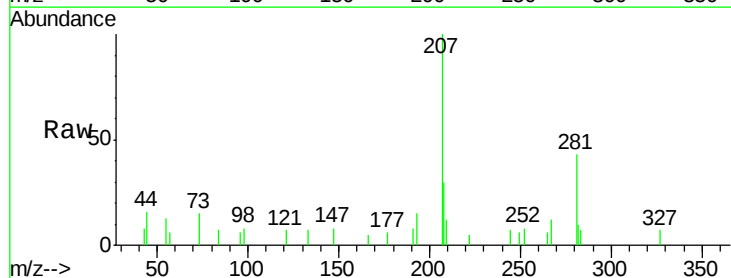
Tgt Ion:252 Resp: 78

Ion Ratio Lower Upper

252 100

254 0.0 50.8 76.2#

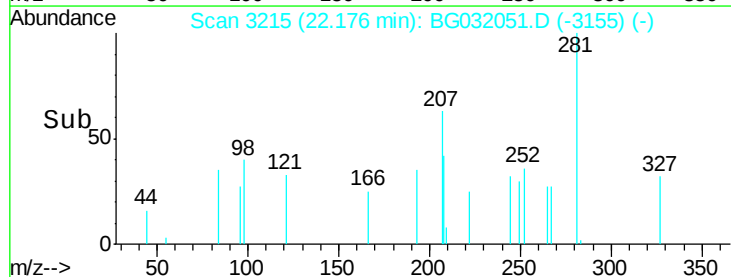
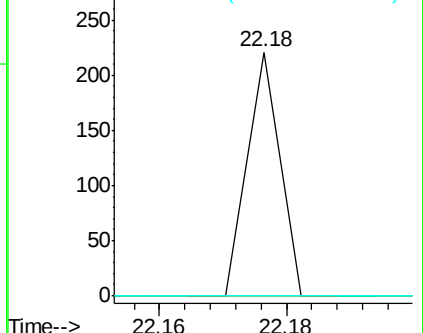
126 0.0 7.4 11.2#

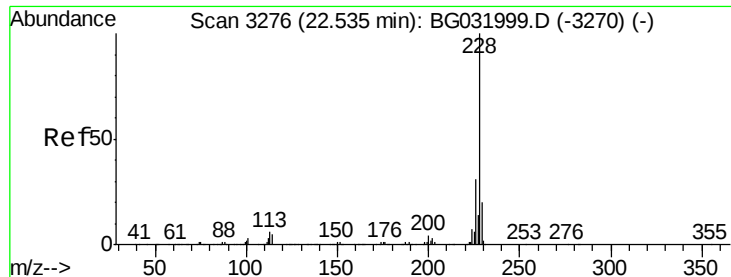


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#82

Chrysene

Concen: 18.713 ng

RT: 22.45 min Scan# 3261

Delta R.T. -0.09 min

Lab File: BG032051.D

Acq: 16 Jan 2018 3:36

Instrument :

BNA\_G

ClientSampleId :

SB-19-2.5-3.0

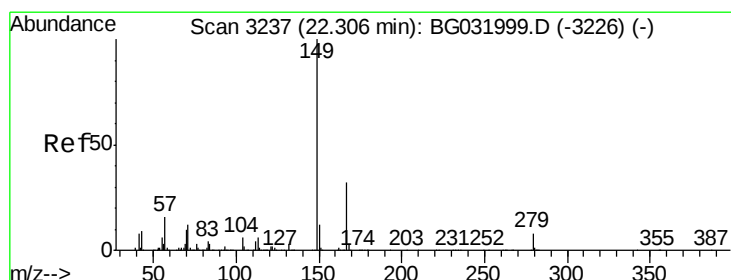
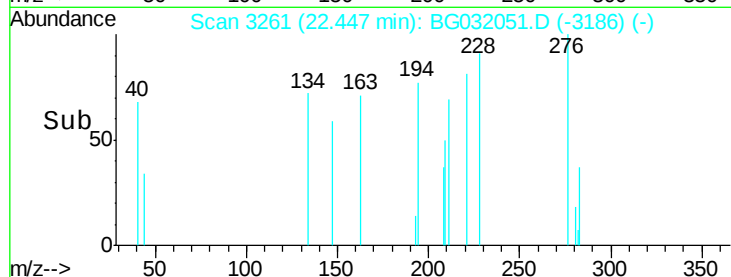
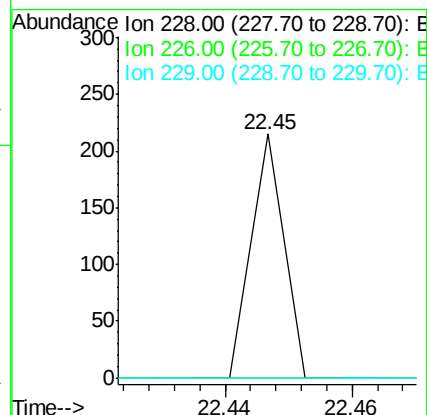
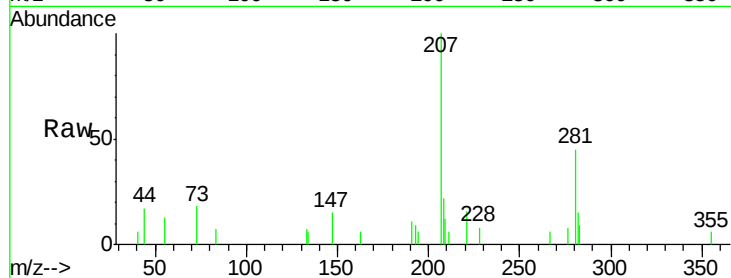
Tgt Ion:228 Resp: 76

Ion Ratio Lower Upper

228 100

226 0.0 24.9 37.3#

229 0.0 15.0 22.4#



#83

Bis(2-ethylhexyl)phthalate

Concen: 857.548 ng

RT: 22.14 min Scan# 3208

Delta R.T. -0.17 min

Lab File: BG032051.D

Acq: 16 Jan 2018 3:36

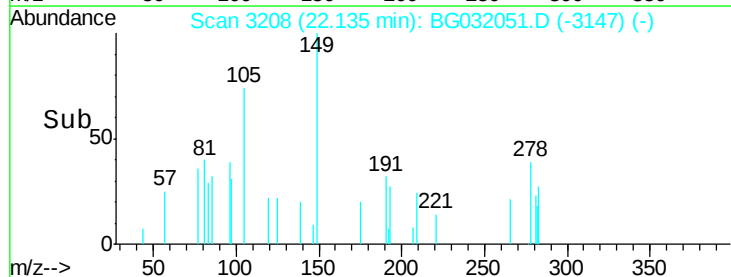
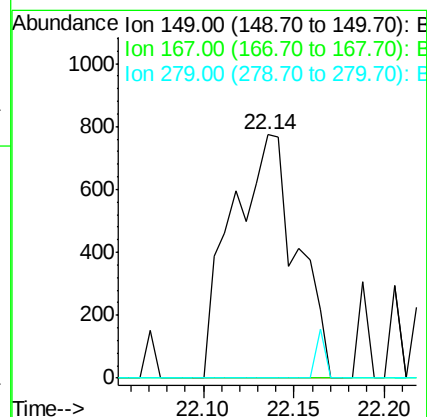
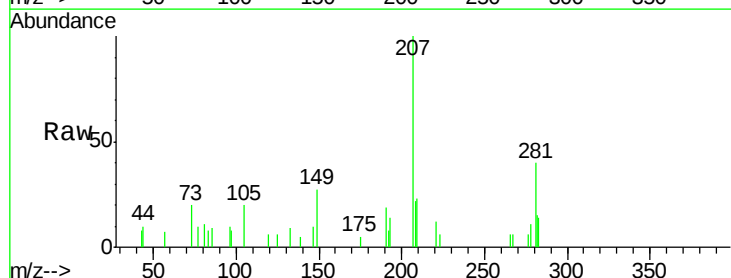
Tgt Ion:149 Resp: 1926

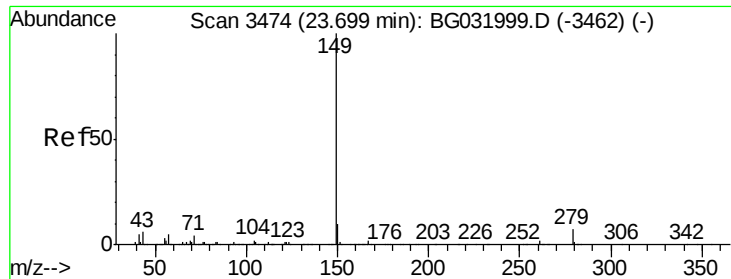
Ion Ratio Lower Upper

149 100

167 0.0 24.3 36.5#

279 0.0 4.0 6.0#





#84

Di-n-octyl phthalate

Concen: 34.762 ng

RT: 23.49 min Scan# 3438

Delta R.T. -0.21 min

Lab File: BG032051.D

Acq: 16 Jan 2018 3:36

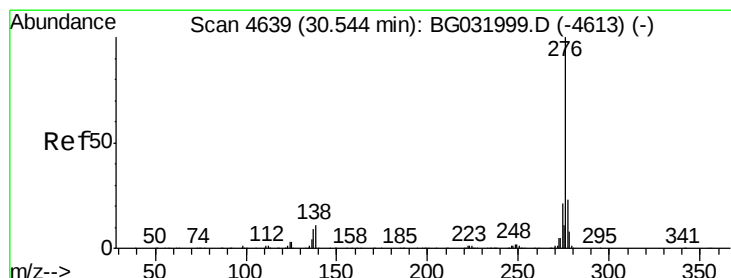
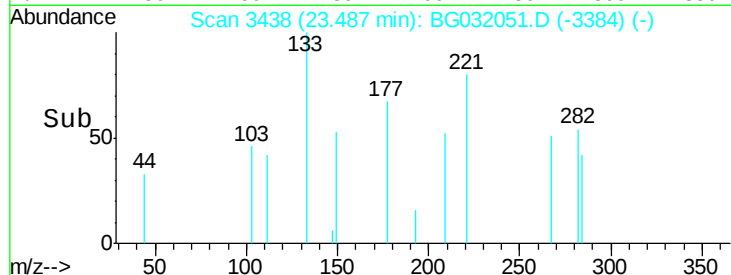
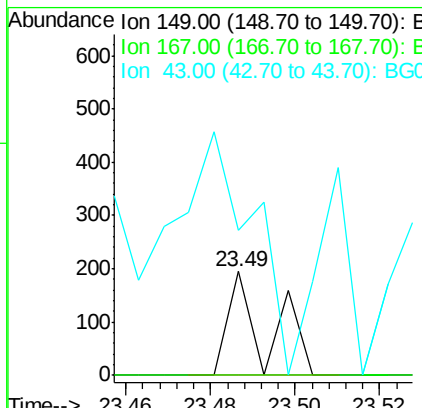
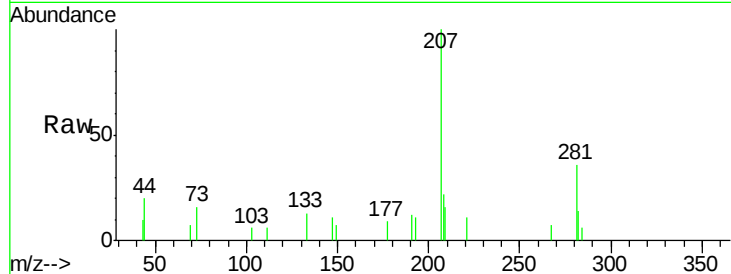
Instrument :

BNA\_G

ClientSampleId :

SB-19-2.5-3.0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 124   |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 0.0   | 1.4   | 2.0#  |
| 43        | 465.3 | 8.9   | 13.3# |



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.865 ng

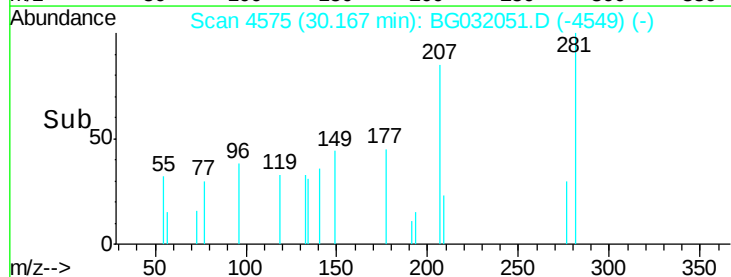
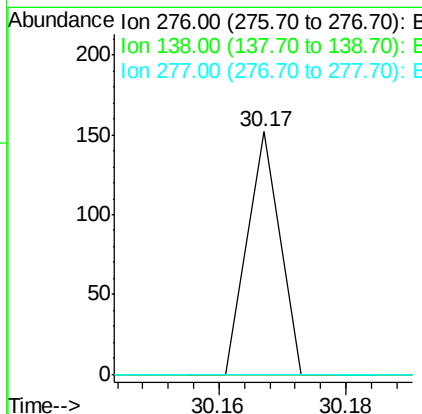
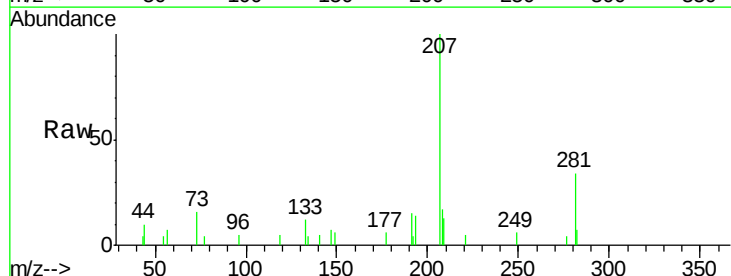
RT: 30.17 min Scan# 4575

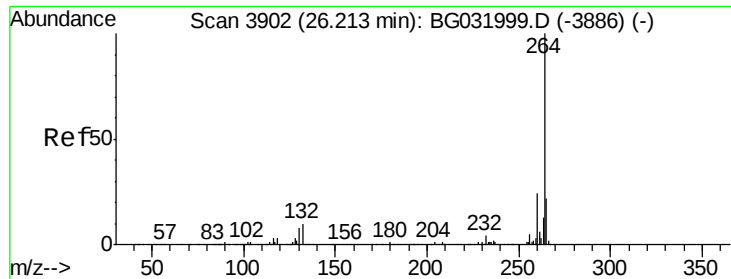
Delta R.T. -0.38 min

Lab File: BG032051.D

Acq: 16 Jan 2018 3:36

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 54    |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 0.0   | 16.0  | 24.0# |
| 277       | 0.0   | 20.0  | 30.0# |



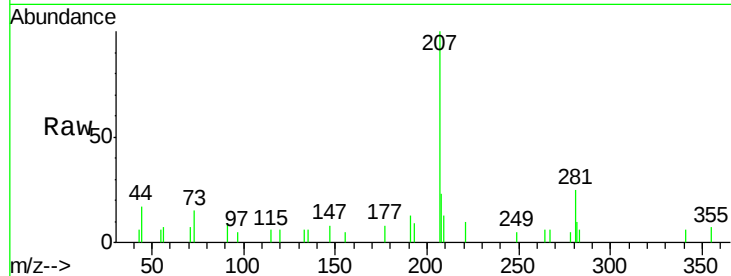


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 26.17 min Scan# 3894  
Delta R.T. -0.05 min  
Lab File: BG032051.D  
Acq: 16 Jan 2018 3:36

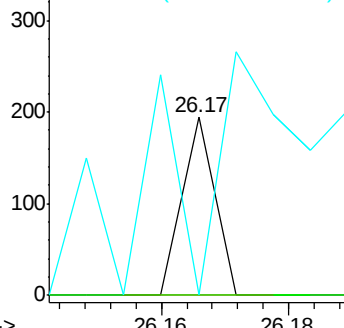
Instrument :  
BNA\_G  
ClientSampleId :  
SB-19-2.5-3.0

Tgt Ion: 264 Resp: 68  

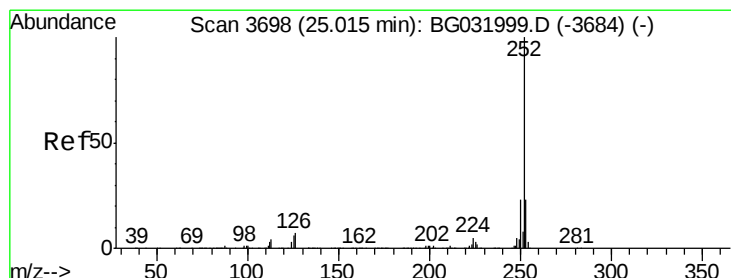
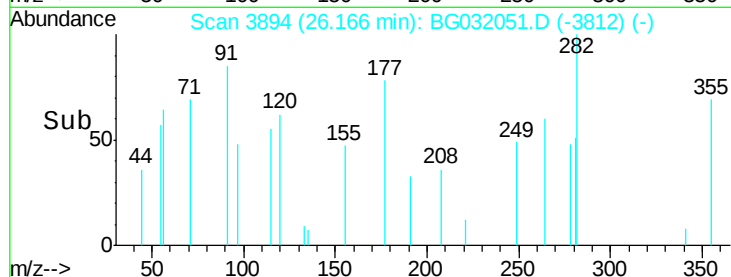
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 0.0   | 17.4  | 26.0# |
| 265 | 0.0   | 17.7  | 26.5# |



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



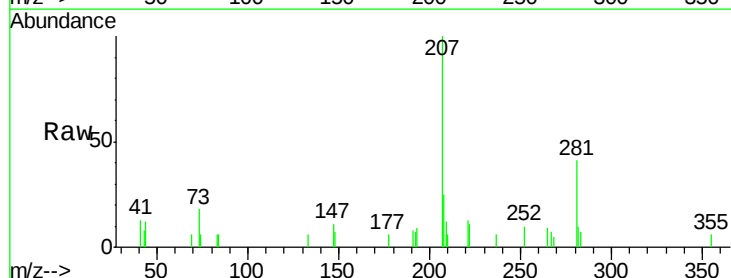
Time-->



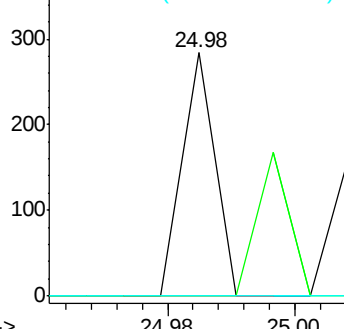
#87  
Benzo(b)fluoranthene  
Concen: 24.330 ng  
RT: 24.98 min Scan# 3693  
Delta R.T. -0.03 min  
Lab File: BG032051.D  
Acq: 16 Jan 2018 3:36

Tgt Ion: 252 Resp: 100  

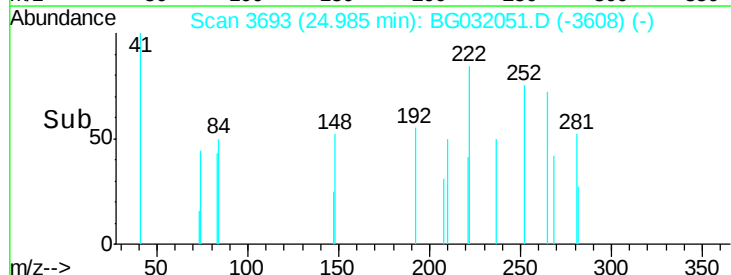
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 0.0   | 18.2  | 27.4# |
| 125 | 0.0   | 7.2   | 10.8# |

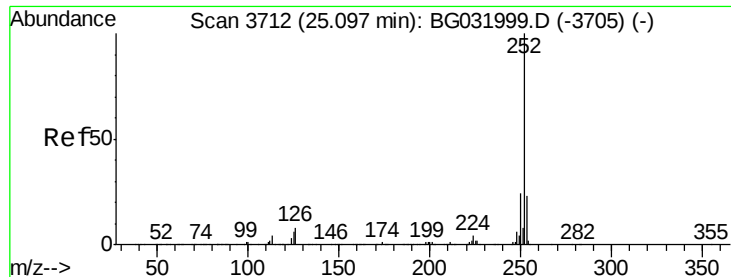


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



Time-->

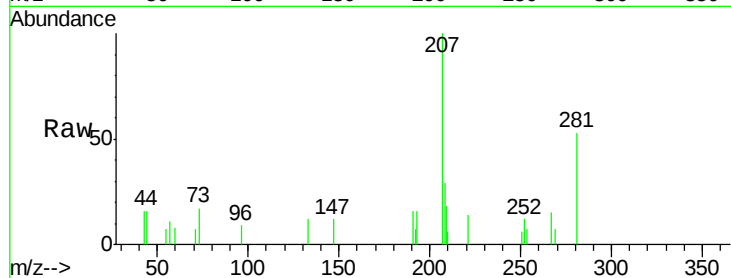




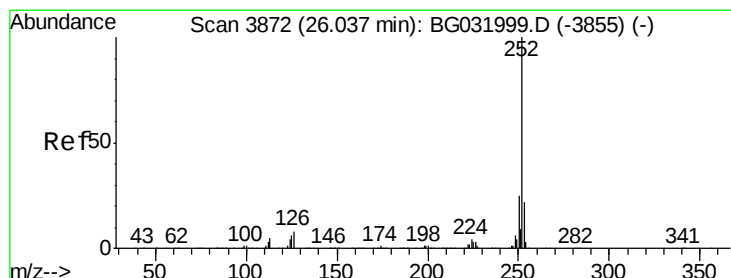
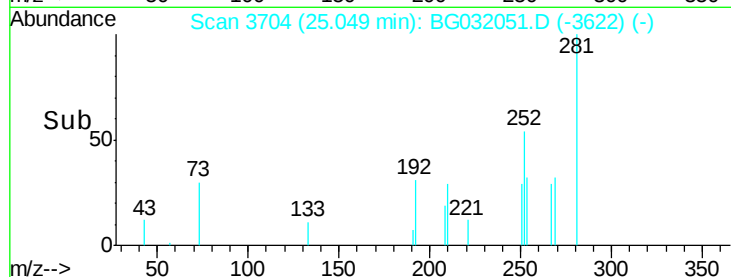
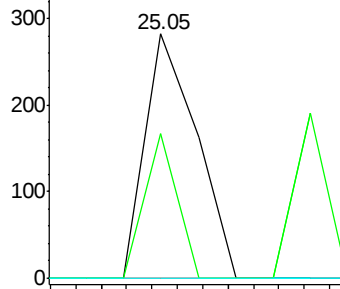
#88  
Benzo(k)fluoranthene  
Concen: 39.090 ng  
RT: 25.05 min Scan# 3704  
Delta R.T. -0.05 min  
Lab File: BG032051.D  
Acq: 16 Jan 2018 3:36

Instrument :  
BNA\_G  
ClientSampleId :  
SB-19-2.5-3.0

Tgt Ion: 252 Resp: 157  
Ion Ratio Lower Upper  
252 100  
253 59.2 17.4 26.2#  
125 0.0 6.6 9.8#

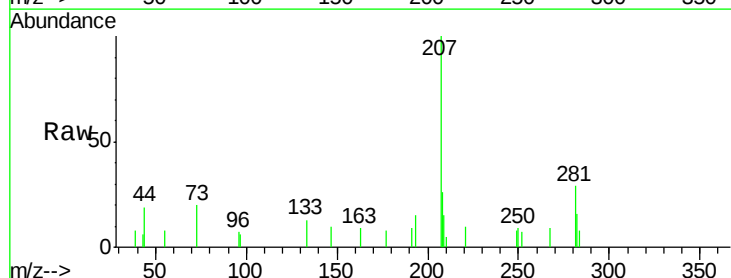


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

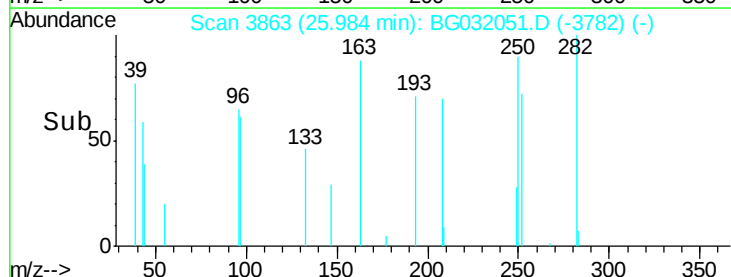
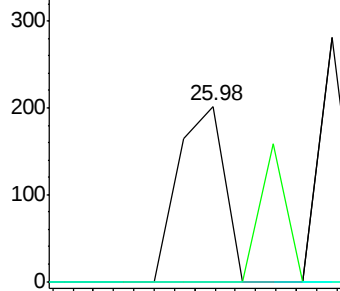


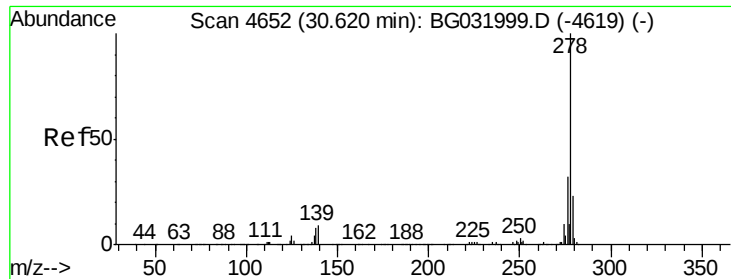
#89  
Benzo(a)pyrene  
Concen: 33.178 ng  
RT: 25.98 min Scan# 3863  
Delta R.T. -0.05 min  
Lab File: BG032051.D  
Acq: 16 Jan 2018 3:36

Tgt Ion: 252 Resp: 129  
Ion Ratio Lower Upper  
252 100  
253 0.0 18.3 27.5#  
125 0.0 7.3 10.9#



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 24.555 ng

RT: 30.57 min Scan# 4643

Delta R.T. -0.05 min

Lab File: BG032051.D

Acq: 16 Jan 2018 3:36

Instrument :

BNA\_G

ClientSampleId :

SB-19-2.5-3.0

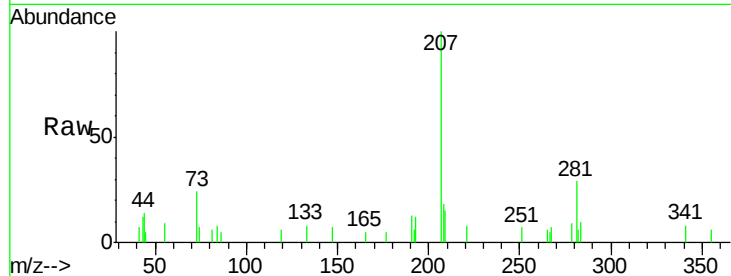
Tgt Ion: 278 Resp: 92

Ion Ratio Lower Upper

278 100

139 0.0 9.8 14.6#

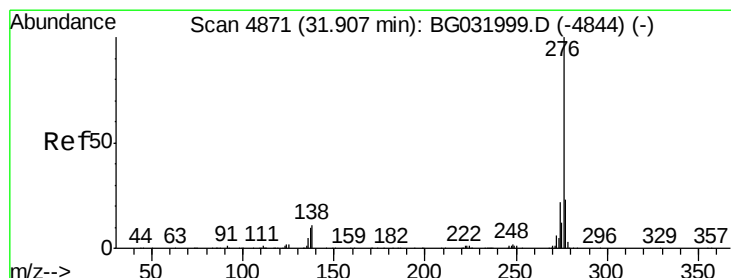
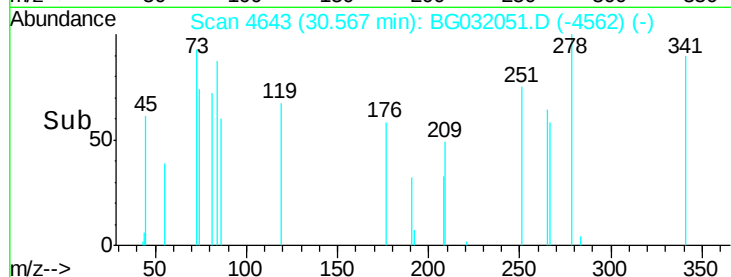
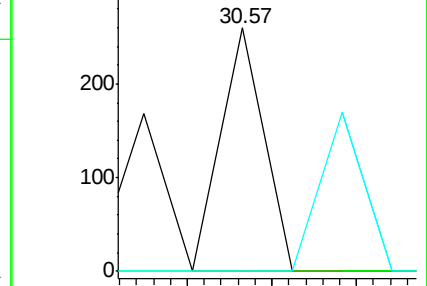
279 0.0 18.4 27.6#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 14.101 ng

RT: 31.58 min Scan# 4816

Delta R.T. -0.32 min

Lab File: BG032051.D

Acq: 16 Jan 2018 3:36

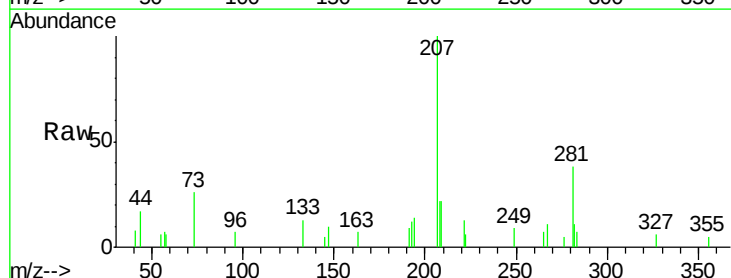
Tgt Ion: 276 Resp: 54

Ion Ratio Lower Upper

276 100

277 0.0 18.3 27.5#

138 0.0 13.9 20.9#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

