

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062119\  
 Data File : BG041379.D  
 Acq On : 21 Jun 2019 15:19  
 Operator : HP/JU  
 Sample : K3406-02RE  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BAT-B14RE

Quant Time: Jun 21 16:04:43 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG061719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 17 14:58:02 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.07  | 152  | 40943    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 10.89 | 136  | 157193   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 14.70 | 164  | 109702   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 17.45 | 188  | 251819   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 21.72 | 240  | 237913   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 25.04 | 264  | 261602   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.61  | 112  | 45112    | 20.25 | ng    | -0.01    |
| 7) Phenol-d6                | 7.22  | 99   | 145302   | 44.99 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 9.25  | 82   | 116175   | 31.08 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 16.20 | 330  | 21573    | 12.81 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 13.32 | 172  | 255733   | 31.68 | ng    | -0.02    |
| 79) Terphenyl-d14           | 20.04 | 244  | 348403   | 29.02 | ng    | -0.02    |

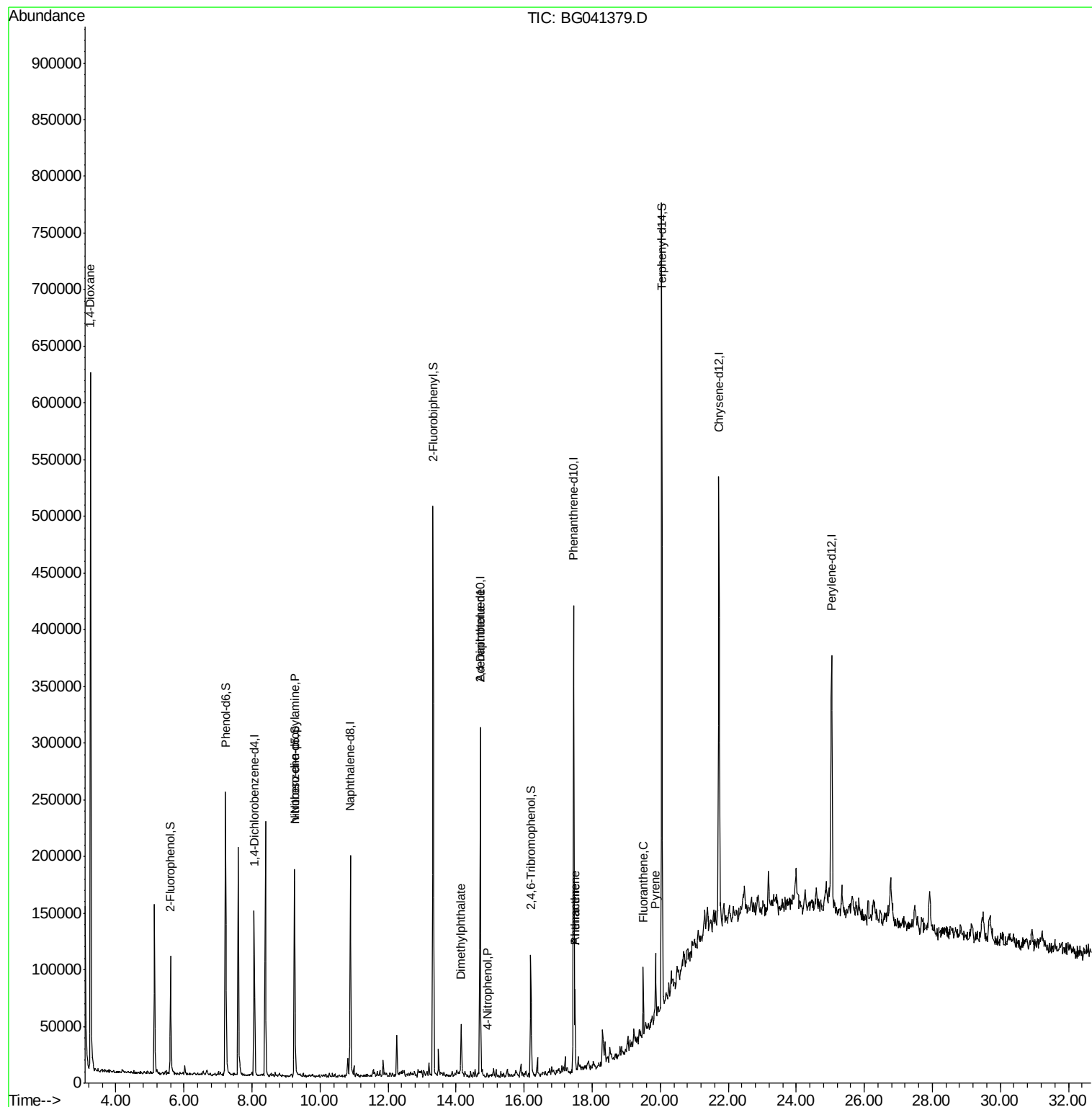
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 2) 1,4-Dioxane                 | 3.25  | 88   | 12909    | 11.553 | ng    | # 1    |
| 19) n-Nitroso-di-n-propylamine | 9.25  | 70   | 17251    | 6.604  | ng    | # 69   |
| 50) Dimethylphthalate          | 14.15 | 163  | 29318    | 3.004  | ng    | 99     |
| 56) 4-Nitrophenol              | 14.91 | 139  | 54       | 3.249  | ng    | # 1    |
| 57) 2,4-Dinitrotoluene         | 14.70 | 165  | 14379    | 4.779  | ng    | # 21   |
| 71) Phenanthrene               | 17.49 | 178  | 45728    | 3.405  | ng    | 100    |
| 72) Anthracene                 | 17.49 | 178  | 45728    | 3.454  | ng    | 99     |
| 75) Fluoranthene               | 19.50 | 202  | 41630    | 2.333  | ng    | 98     |
| 78) Pyrene                     | 19.86 | 202  | 38215    | 2.382  | ng    | 98     |

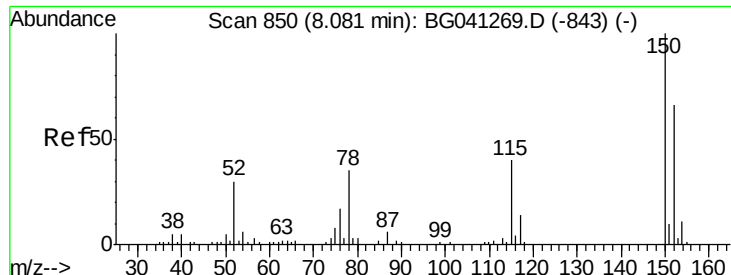
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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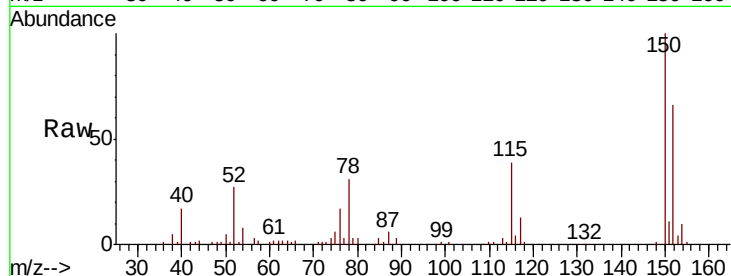


#1

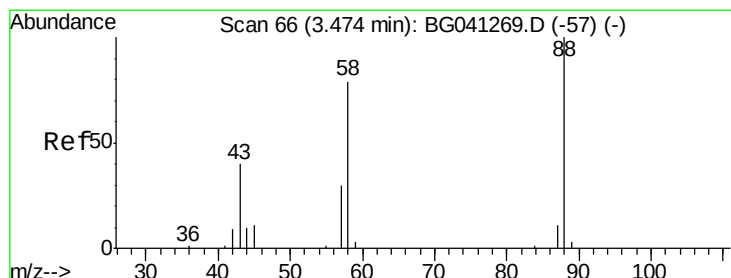
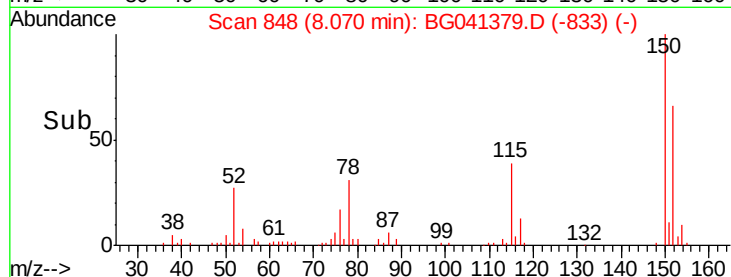
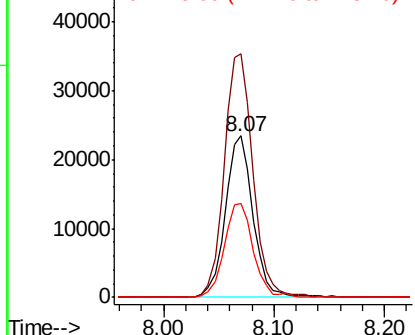
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.07 min Scan# 848  
Delta R.T. -0.01 min  
Lab File: BG041379.D  
Acq: 21 Jun 2019 15:19

Instrument :  
BNA\_G  
ClientSampleId :  
BAT-B14RE

Tot Ion:152 Resp: 40943  
Ion Ratio Lower Upper  
152 100  
150 150.6 120.6 181.0  
115 58.3 47.9 71.9



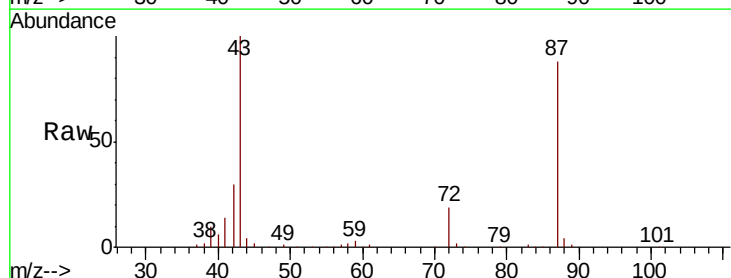
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



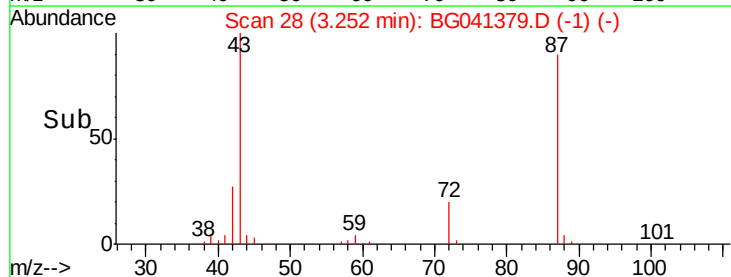
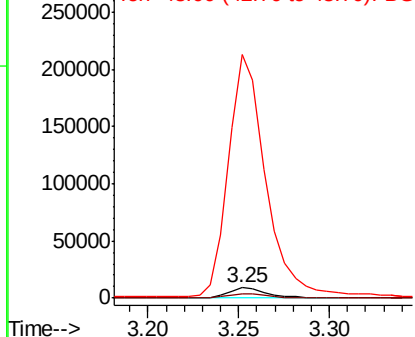
#2

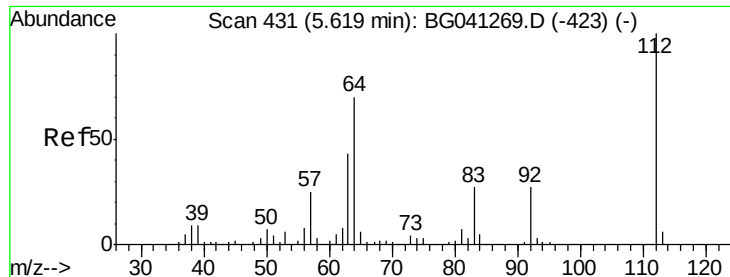
1,4-Dioxane  
Concen: 11.553 ng  
RT: 3.25 min Scan# 28  
Delta R.T. -0.22 min  
Lab File: BG041379.D  
Acq: 21 Jun 2019 15:19

Tgt Ion: 88 Resp: 12909  
Ion Ratio Lower Upper  
88 100  
58 52.6 59.7 89.5#  
43 2389.3 31.9 47.9#



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





#5

2-Fluorophenol

Concen: 20.245 ng

RT: 5.61 min Scan# 429

Delta R.T. -0.01 min

Lab File: BG041379.D

Acq: 21 Jun 2019 15:19

Instrument :

BNA\_G

ClientSampleId :

BAT-B14RE

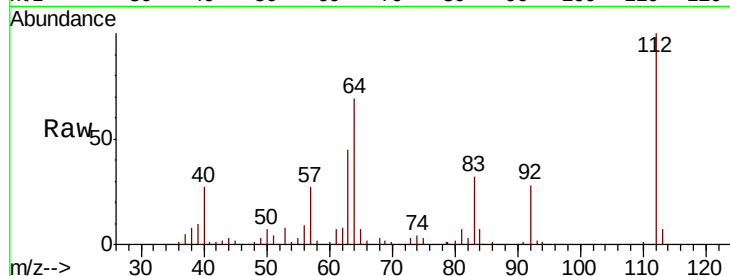
Tot Ion: 112 Resp: 45112

Ion Ratio Lower Upper

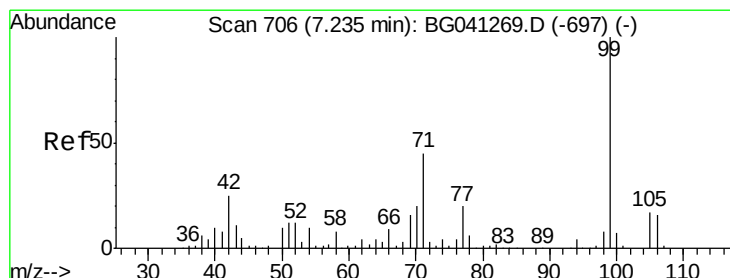
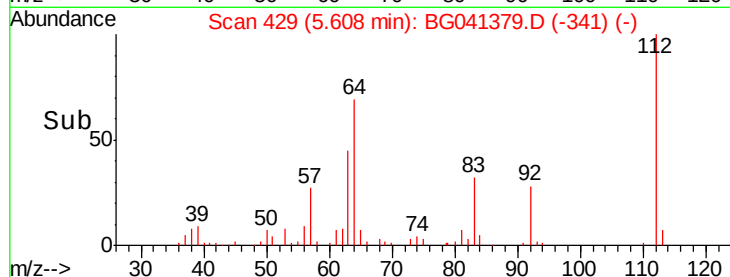
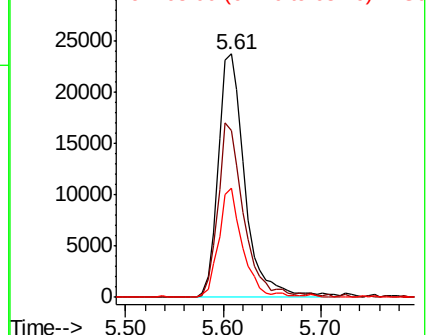
112 100

64 68.7 55.9 83.9

63 45.0 34.6 51.8



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: 44.986 ng

RT: 7.22 min Scan# 704

Delta R.T. -0.01 min

Lab File: BG041379.D

Acq: 21 Jun 2019 15:19

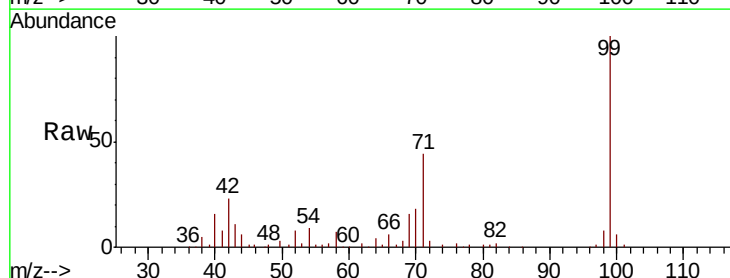
Tgt Ion: 99 Resp: 145302

Ion Ratio Lower Upper

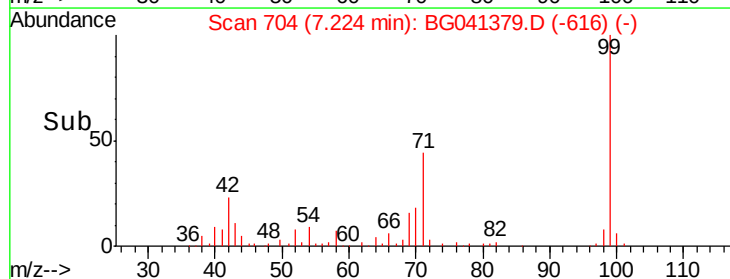
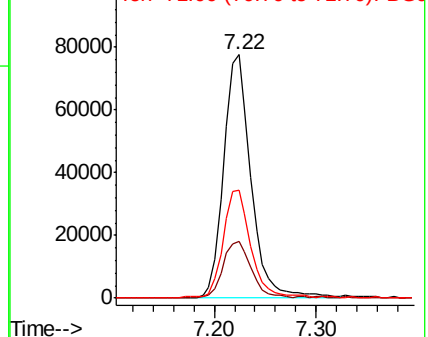
99 100

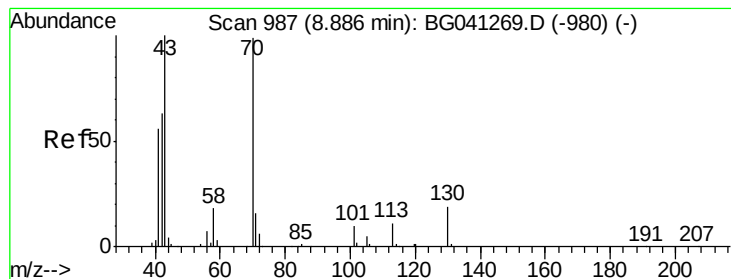
42 23.3 19.9 29.9

71 44.1 36.4 54.6



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





#19

n-Nitroso-di-n-propylamine

Concen: 6.604 ng

RT: 9.25 min Scan# 1049

Delta R.T. 0.36 min

Lab File: BG041379.D

Acq: 21 Jun 2019 15:19

Instrument :

BNA\_G

ClientSampleId :

BAT-B14RE

Tot Ion: 70 Resp: 17251

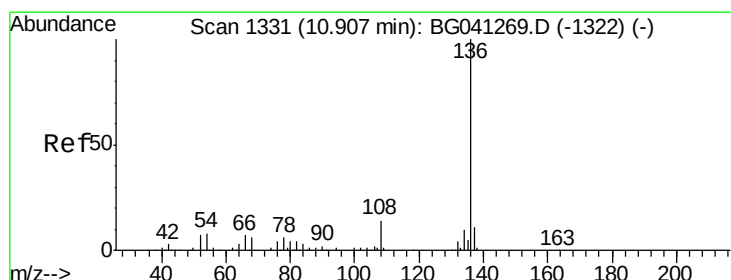
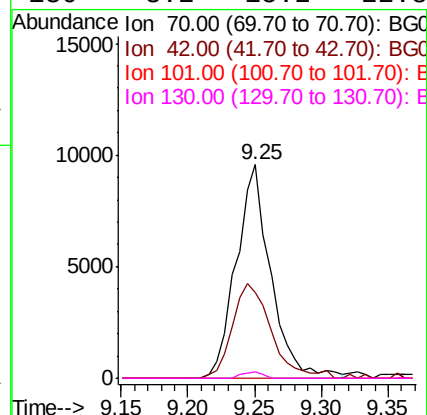
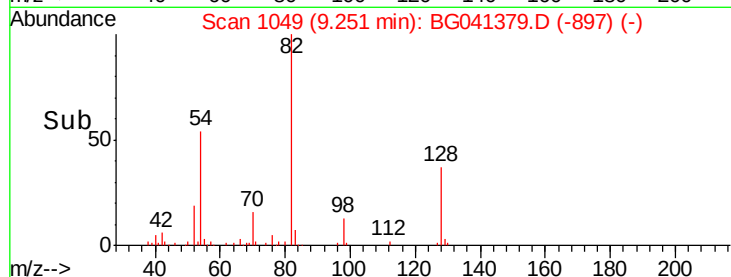
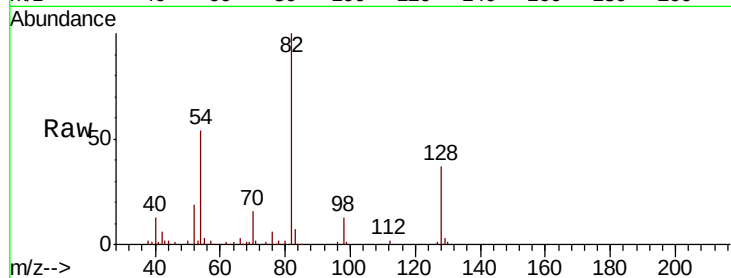
Ion Ratio Lower Upper

70 100

42 40.2 51.4 77.2#

101 0.0 8.2 12.2#

130 3.2 15.2 22.8#



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.89 min Scan# 1328

Delta R.T. -0.02 min

Lab File: BG041379.D

Acq: 21 Jun 2019 15:19

Tgt Ion: 136 Resp: 157193

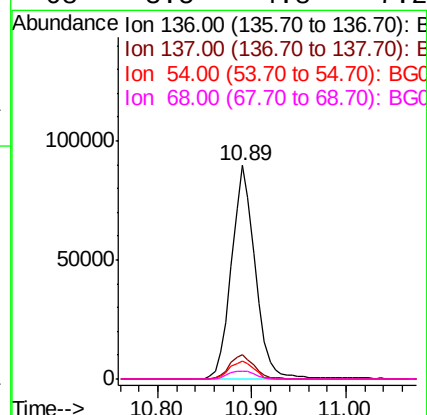
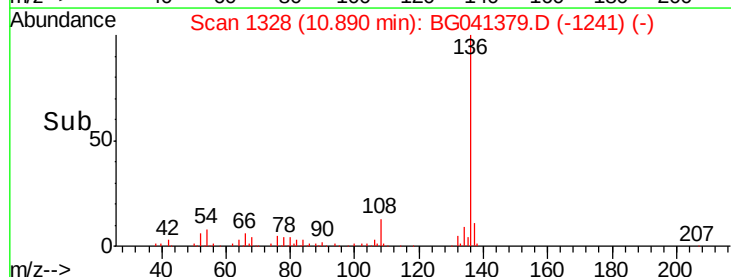
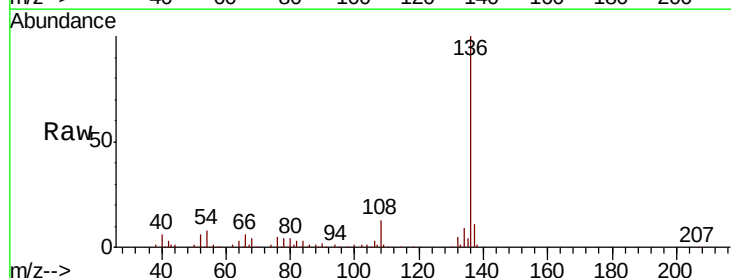
Ion Ratio Lower Upper

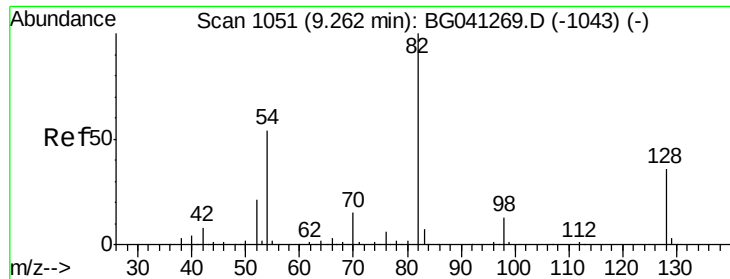
136 100

137 11.3 8.8 13.2

54 8.5 6.4 9.6

68 3.5 4.8 7.2#

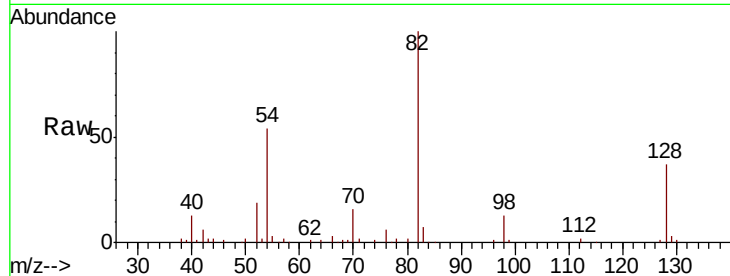




#23  
Nitrobenzene-d5  
Concen: 31.082 ng  
RT: 9.25 min Scan# 1049  
Delta R.T. -0.01 min  
Lab File: BG041379.D  
Acq: 21 Jun 2019 15:19

Instrument :  
BNA\_G  
ClientSampleId :  
BAT-B14RE

| Tot Ion   | 82    | Resp  | 116175 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 37.4  | 29.2  | 43.8   |
| 54        | 54.3  | 43.4  | 65.0   |

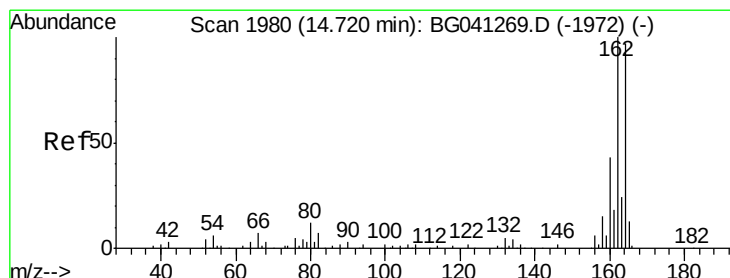
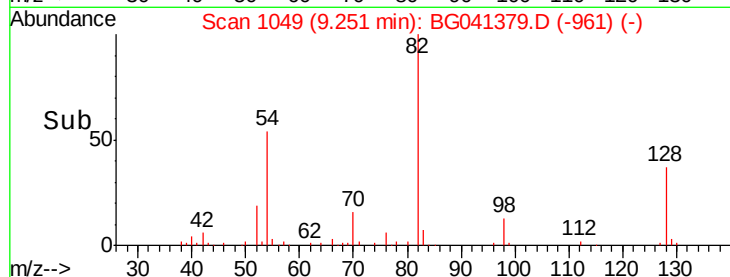
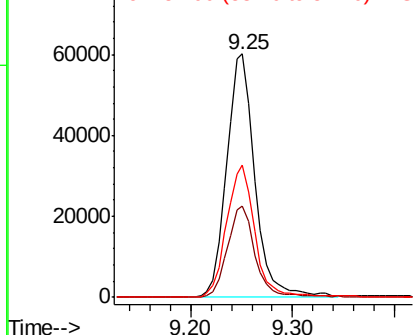


Abundance

Ion 82.00 (81.70 to 82.70): BGC

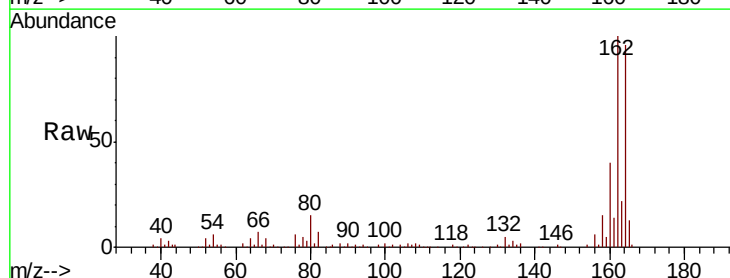
Ion 128.00 (127.70 to 128.70): BGC

Ion 54.00 (53.70 to 54.70): BGC



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.70 min Scan# 1977  
Delta R.T. -0.02 min  
Lab File: BG041379.D  
Acq: 21 Jun 2019 15:19

| Tgt Ion   | 164   | Resp  | 109702 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 104.4 | 82.8  | 124.2  |
| 160       | 41.7  | 35.8  | 53.8   |

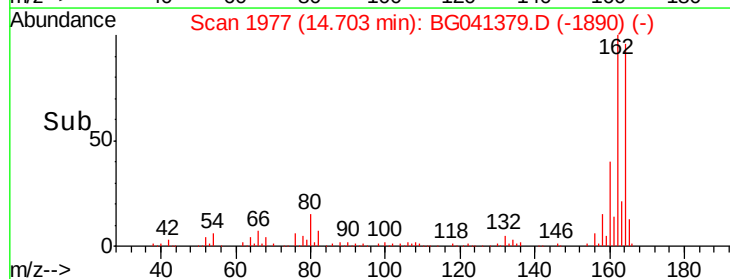
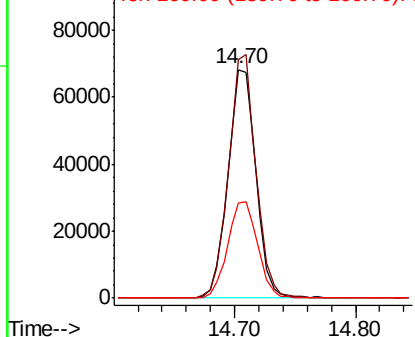


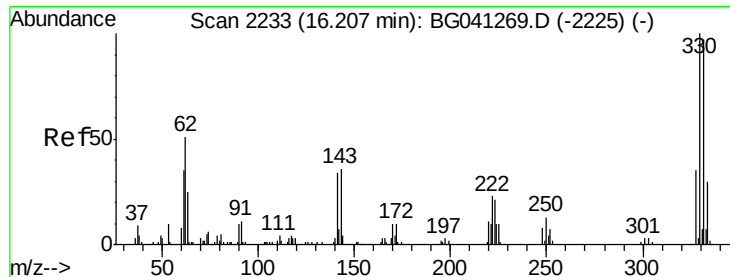
Abundance

Ion 164.00 (163.70 to 164.70): BGC

Ion 162.00 (161.70 to 162.70): BGC

Ion 160.00 (159.70 to 160.70): BGC

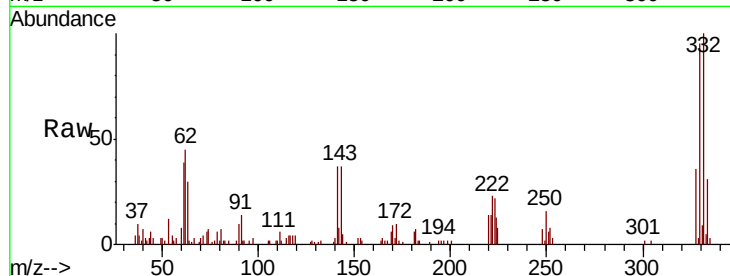




#42  
 2,4,6-Tribromophenol  
 Concen: 12.809 ng  
 RT: 16.20 min Scan# 2231  
 Delta R.T. -0.01 min  
 Lab File: BG041379.D  
 Acq: 21 Jun 2019 15:19

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BAT-B14RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.0  | 75.5  | 113.3 |
| 141     | 38.4  | 29.0  | 43.4  |

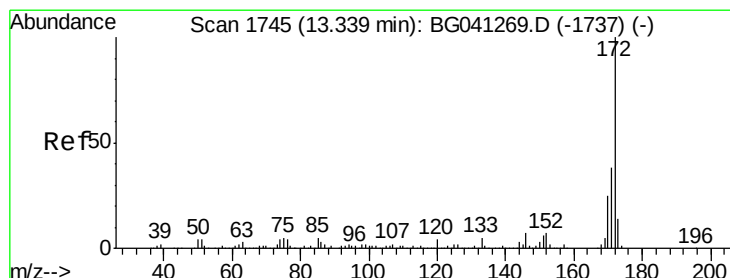
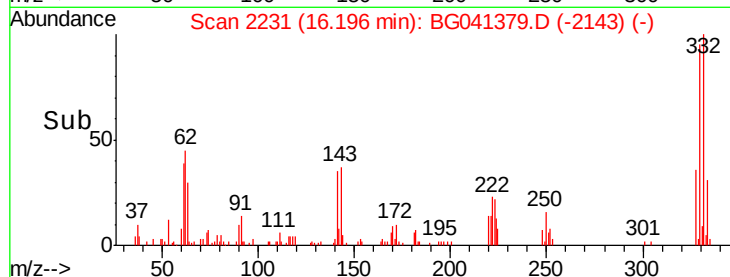
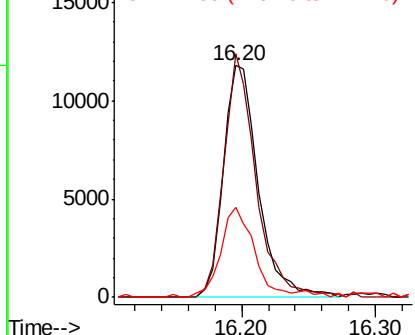


Abundance

Ion 329.80 (329.50 to 330.50): E

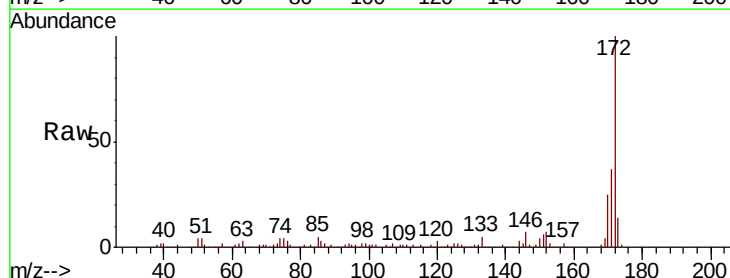
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 31.684 ng  
 RT: 13.32 min Scan# 1742  
 Delta R.T. -0.02 min  
 Lab File: BG041379.D  
 Acq: 21 Jun 2019 15:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.7  | 30.0  | 45.0  |
| 170     | 24.6  | 19.8  | 29.6  |

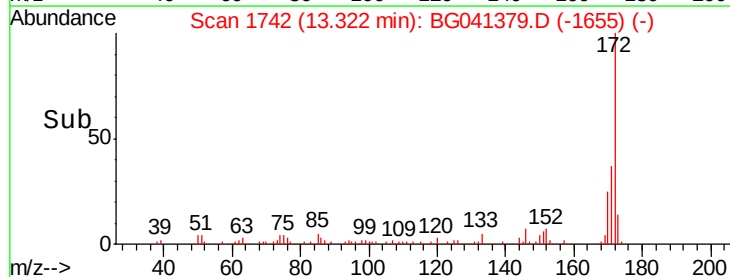
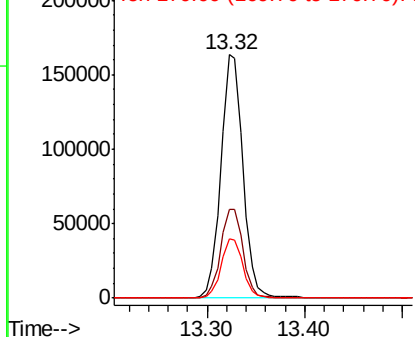


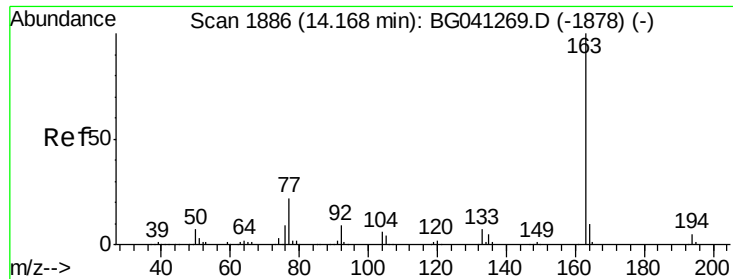
Abundance

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





#50

Dimethylphthalate

Concen: 3.004 ng

RT: 14.15 min Scan# 1883

Delta R.T. -0.02 min

Lab File: BG041379.D

Acq: 21 Jun 2019 15:19

Instrument :

BNA\_G

ClientSampleId :

BAT-B14RE

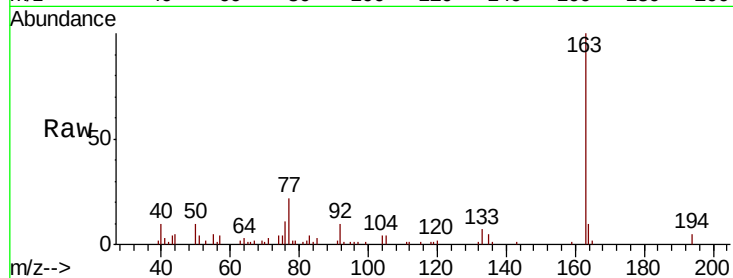
Tot Ion:163 Resp: 29318

Ion Ratio Lower Upper

163 100

194 5.3 3.9 5.9

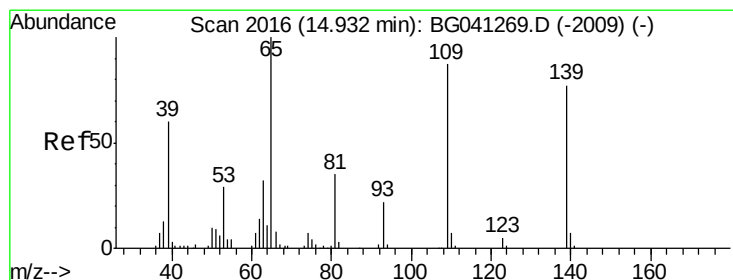
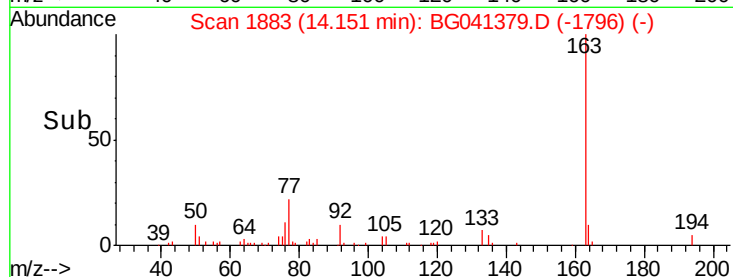
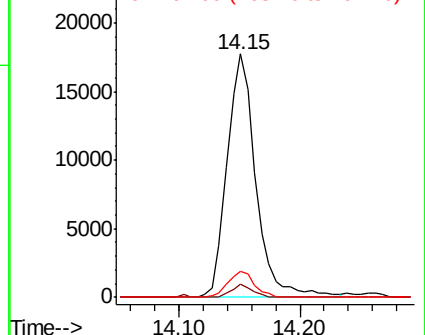
164 10.5 8.3 12.5



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



#56

4-Nitrophenol

Concen: 3.249 ng

RT: 14.91 min Scan# 2013

Delta R.T. -0.02 min

Lab File: BG041379.D

Acq: 21 Jun 2019 15:19

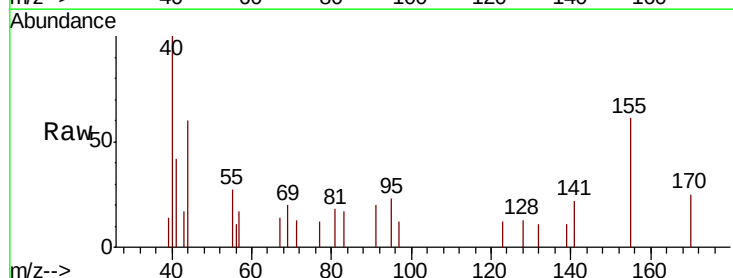
Tgt Ion:139 Resp: 54

Ion Ratio Lower Upper

139 100

109 0.0 93.2 133.2#

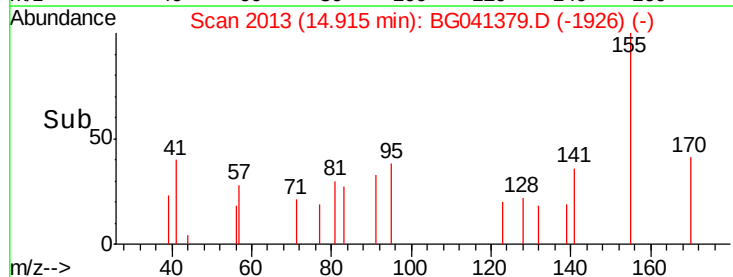
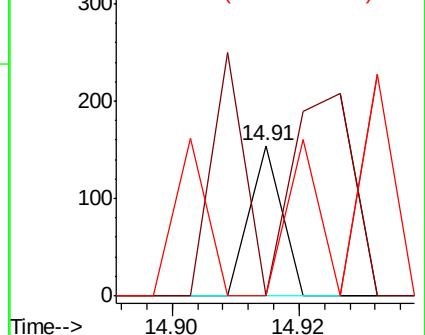
65 0.0 110.2 150.2#



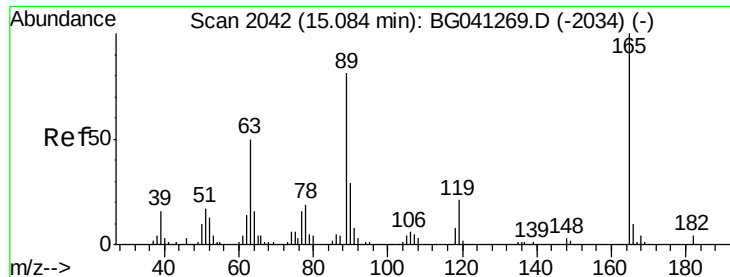
Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BGC



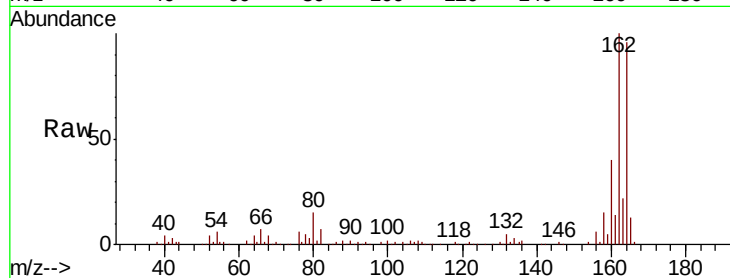




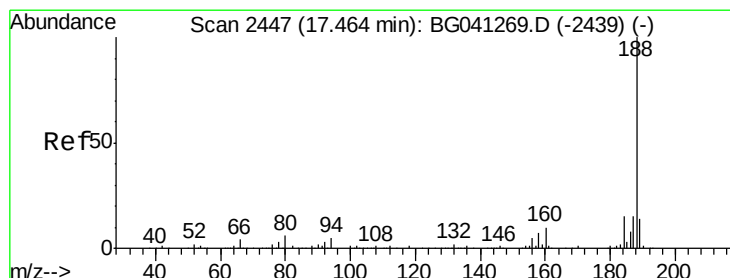
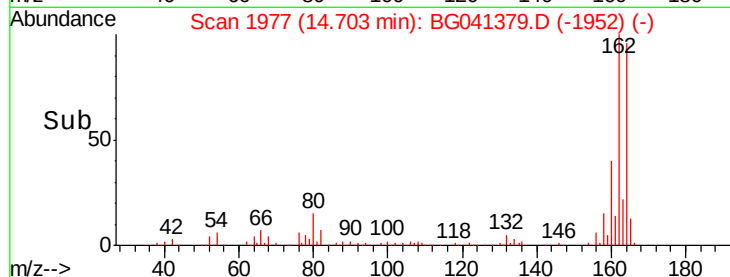
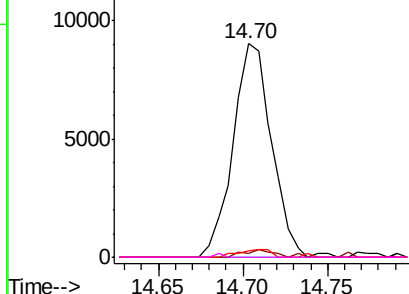
#57  
 2,4-Dinitrotoluene  
 Concen: 4.779 ng  
 RT: 14.70 min Scan# 1977  
 Delta R.T. -0.38 min  
 Lab File: BG041379.D  
 Acq: 21 Jun 2019 15:19

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BAT-B14RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.9   | 40.0  | 60.0# |
| 89      | 2.7   | 64.6  | 96.8# |
| 182     | 0.0   | 2.9   | 4.3#  |

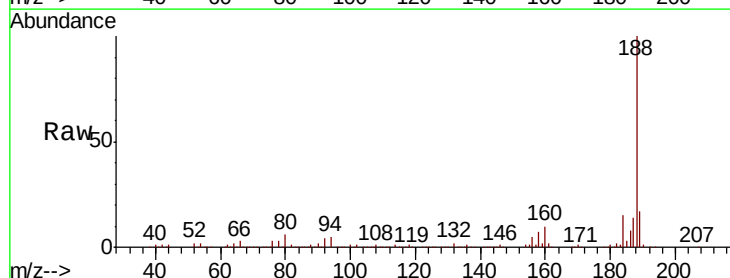


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BGC  
 Ion 89.00 (88.70 to 89.70): BGC  
 Ion 182.00 (181.70 to 182.70): E

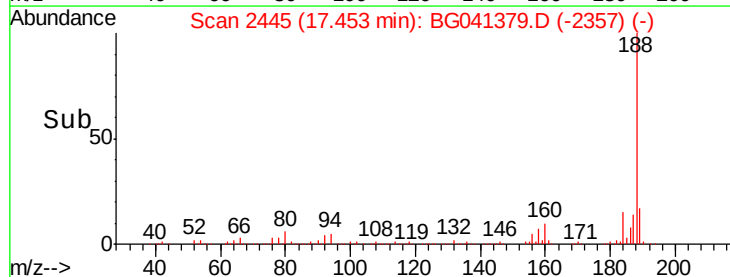
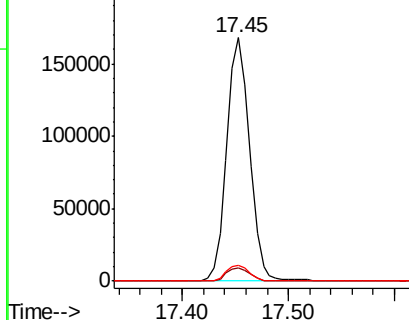


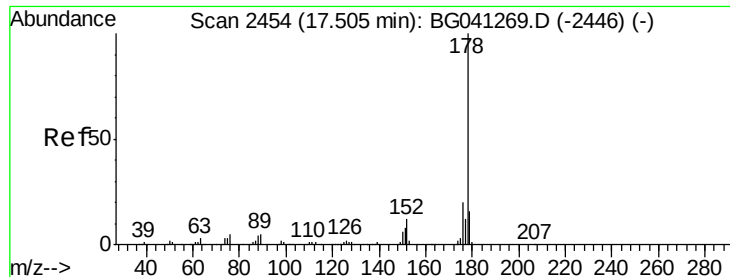
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.45 min Scan# 2445  
 Delta R.T. -0.01 min  
 Lab File: BG041379.D  
 Acq: 21 Jun 2019 15:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 5.3   | 3.6   | 5.4   |
| 80      | 6.4   | 4.8   | 7.2   |



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

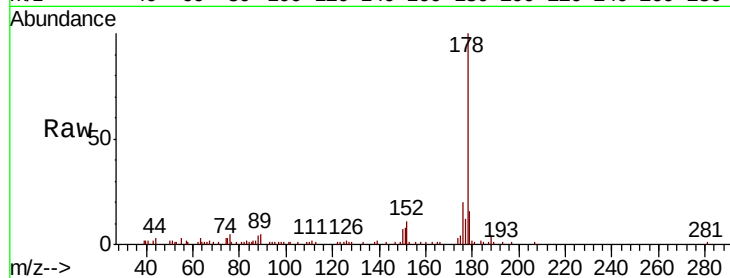




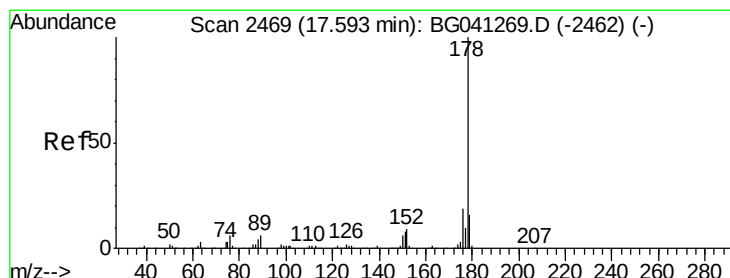
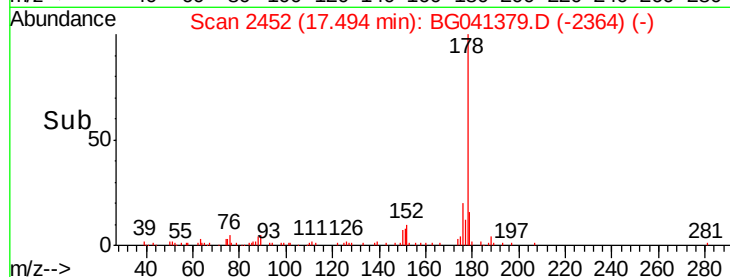
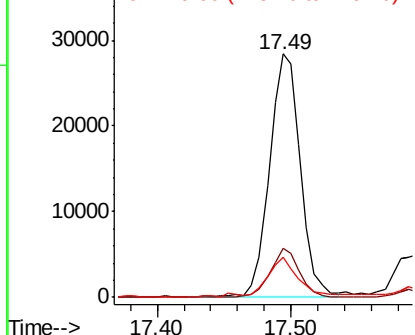
#71  
Phenanthrene  
Concen: 3.405 ng  
RT: 17.49 min Scan# 2452  
Delta R.T. -0.01 min  
Lab File: BG041379.D  
Acq: 21 Jun 2019 15:19

Instrument :  
BNA\_G  
ClientSampleId :  
BAT-B14RE

Tot Ion:178 Resp: 45728  
Ion Ratio Lower Upper  
178 100  
176 19.9 16.1 24.1  
179 16.3 12.9 19.3

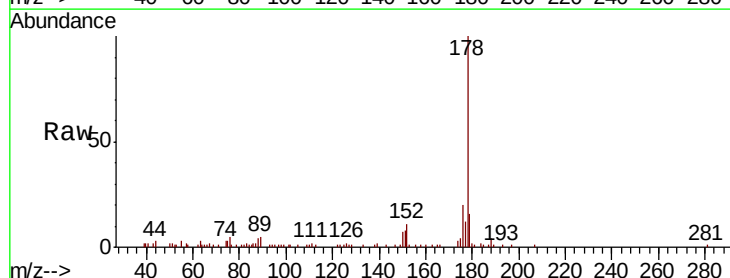


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

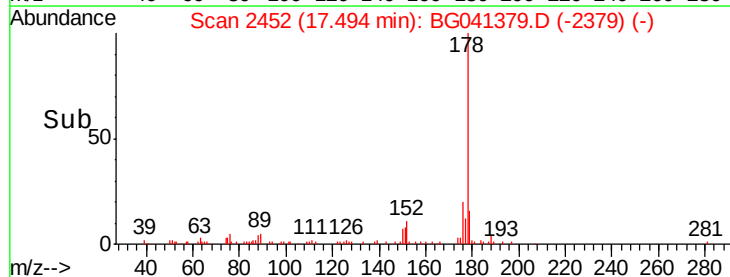
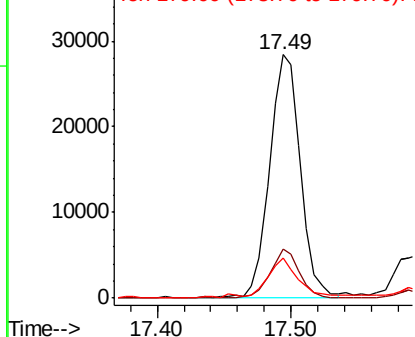


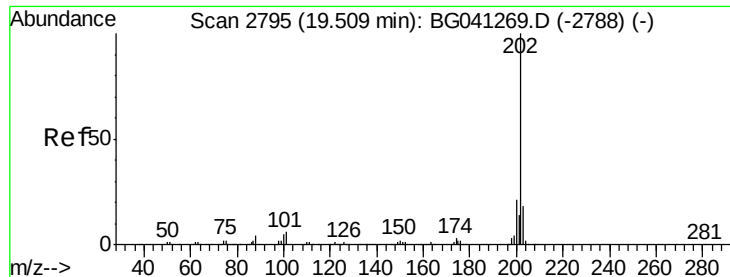
#72  
Anthracene  
Concen: 3.454 ng  
RT: 17.49 min Scan# 2452  
Delta R.T. -0.10 min  
Lab File: BG041379.D  
Acq: 21 Jun 2019 15:19

Tgt Ion:178 Resp: 45728  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.4 23.2  
179 16.3 13.0 19.4



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





#75

Fluoranthene

Concen: 2.333 ng

RT: 19.50 min Scan# 2794

Delta R.T. -0.01 min

Lab File: BG041379.D

Acq: 21 Jun 2019 15:19

Instrument :

BNA\_G

ClientSampleId :

BAT-B14RE

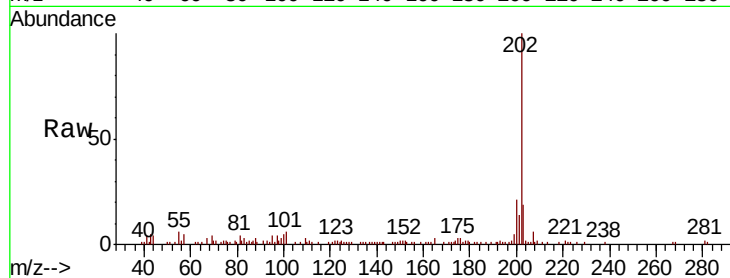
Tot Ion:202 Resp: 41630

Ion Ratio Lower Upper

202 100

101 6.1 0.0 26.0

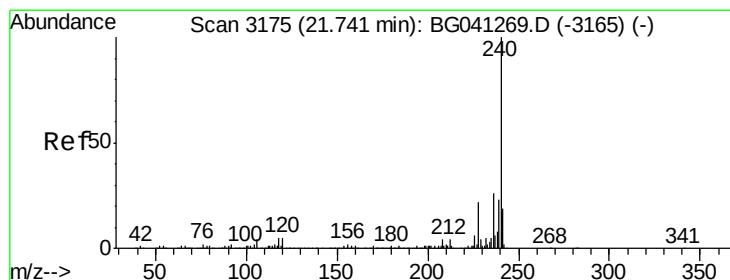
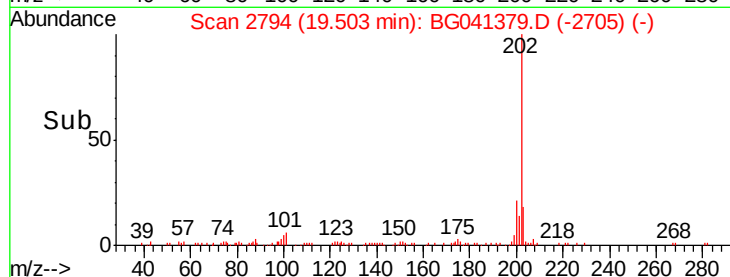
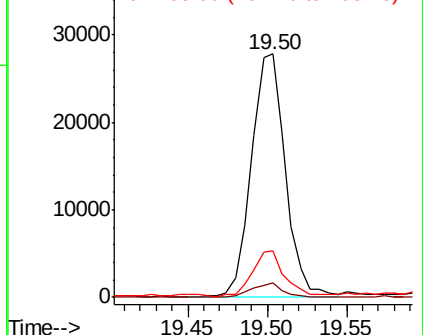
203 19.1 0.0 37.7



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.72 min Scan# 3172

Delta R.T. -0.02 min

Lab File: BG041379.D

Acq: 21 Jun 2019 15:19

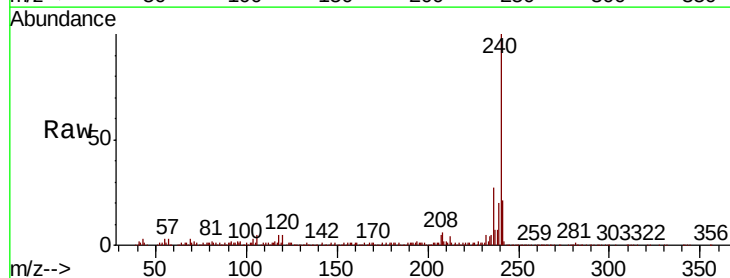
Tgt Ion:240 Resp: 237913

Ion Ratio Lower Upper

240 100

120 4.8 3.7 5.5

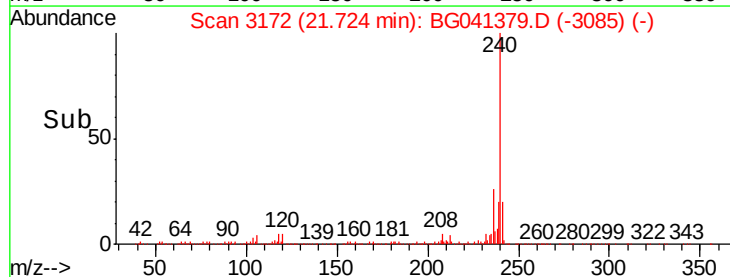
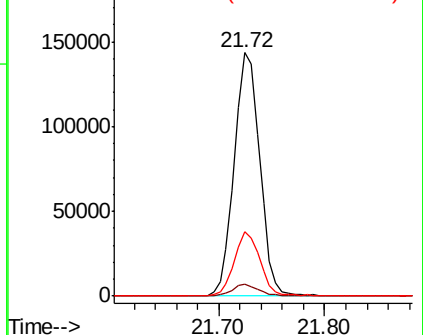
236 26.6 21.1 31.7

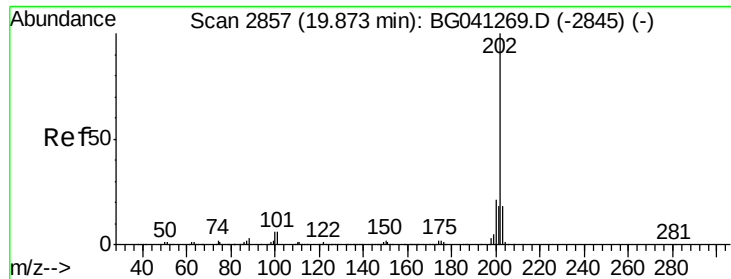


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 2.382 ng

RT: 19.86 min Scan# 2855

Delta R.T. -0.01 min

Lab File: BG041379.D

Acq: 21 Jun 2019 15:19

Instrument :

BNA\_G

ClientSampleId :

BAT-B14RE

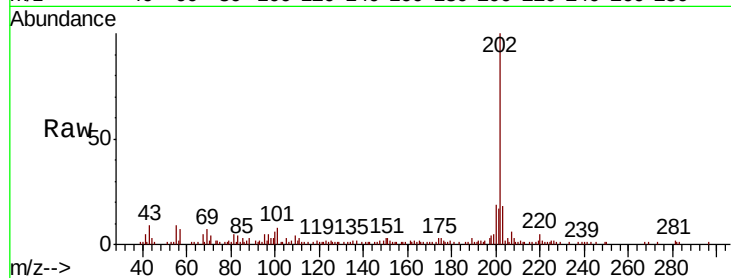
Tot Ion:202 Resp: 38215

Ion Ratio Lower Upper

202 100

200 18.9 16.8 25.2

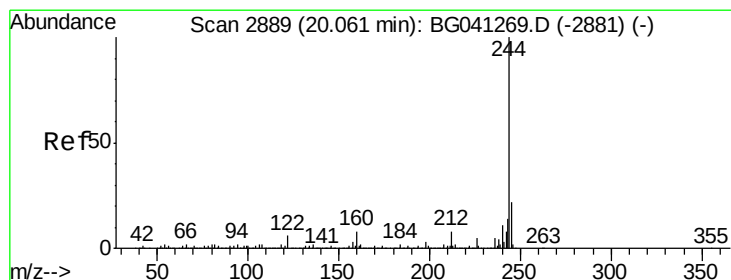
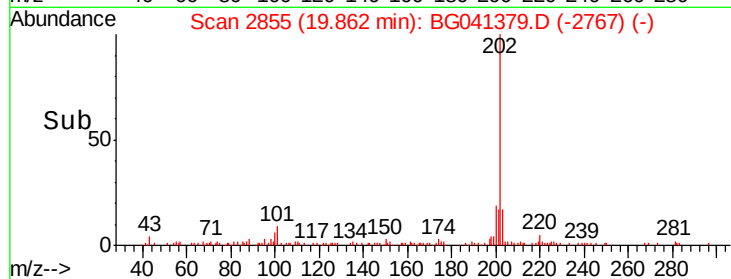
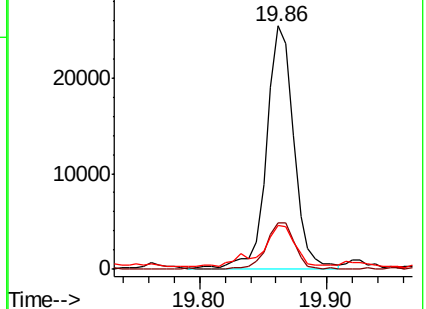
203 18.2 14.6 21.8



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



#79

Terphenyl-d14

Concen: 29.022 ng

RT: 20.04 min Scan# 2886

Delta R.T. -0.02 min

Lab File: BG041379.D

Acq: 21 Jun 2019 15:19

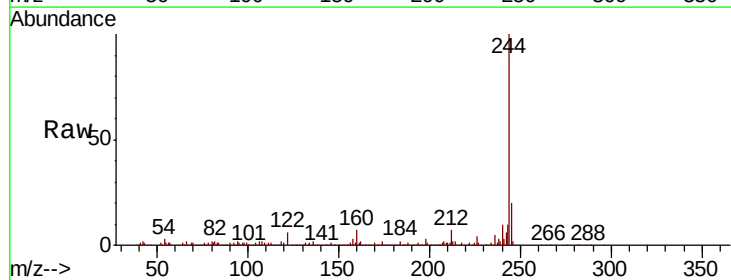
Tgt Ion:244 Resp: 348403

Ion Ratio Lower Upper

244 100

212 7.4 6.6 10.0

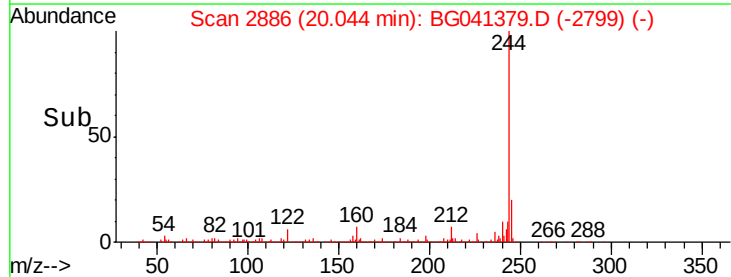
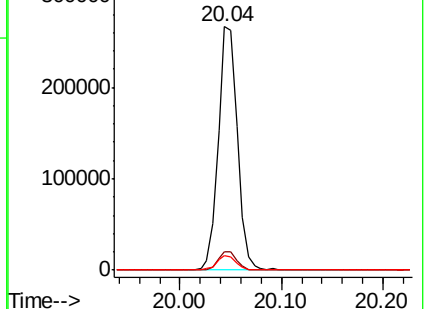
122 6.1 5.0 7.4

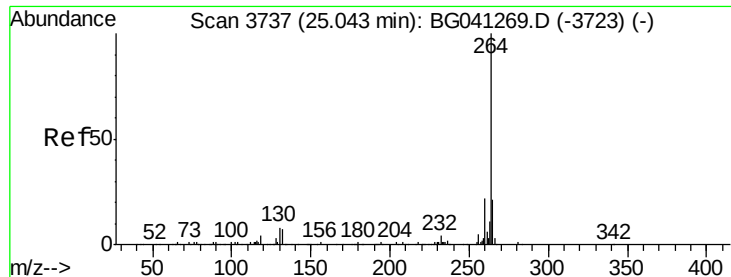


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 25.04 min Scan# 3736  
Delta R.T. -0.01 min  
Lab File: BG041379.D  
Acq: 21 Jun 2019 15:19

Instrument :  
BNA\_G  
ClientSampleId :  
BAT-B14RE

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 261602 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 22.7  | 17.4  | 26.2   |
| 265      | 20.8  | 17.2  | 25.8   |

