

Data Path : Z:\HPCHEM1\BNA G\DATA\BG042318\  
 Data File : BG033947.D  
 Acq On : 24 Apr 2018 8:38  
 Operator : SJ/JU  
 Sample : PB108487BS  
 Misc :  
 ALS Vial : 32 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Apr 24 12:09:00 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG041918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 19 13:56:22 2018  
 Response via : Initial Calibration

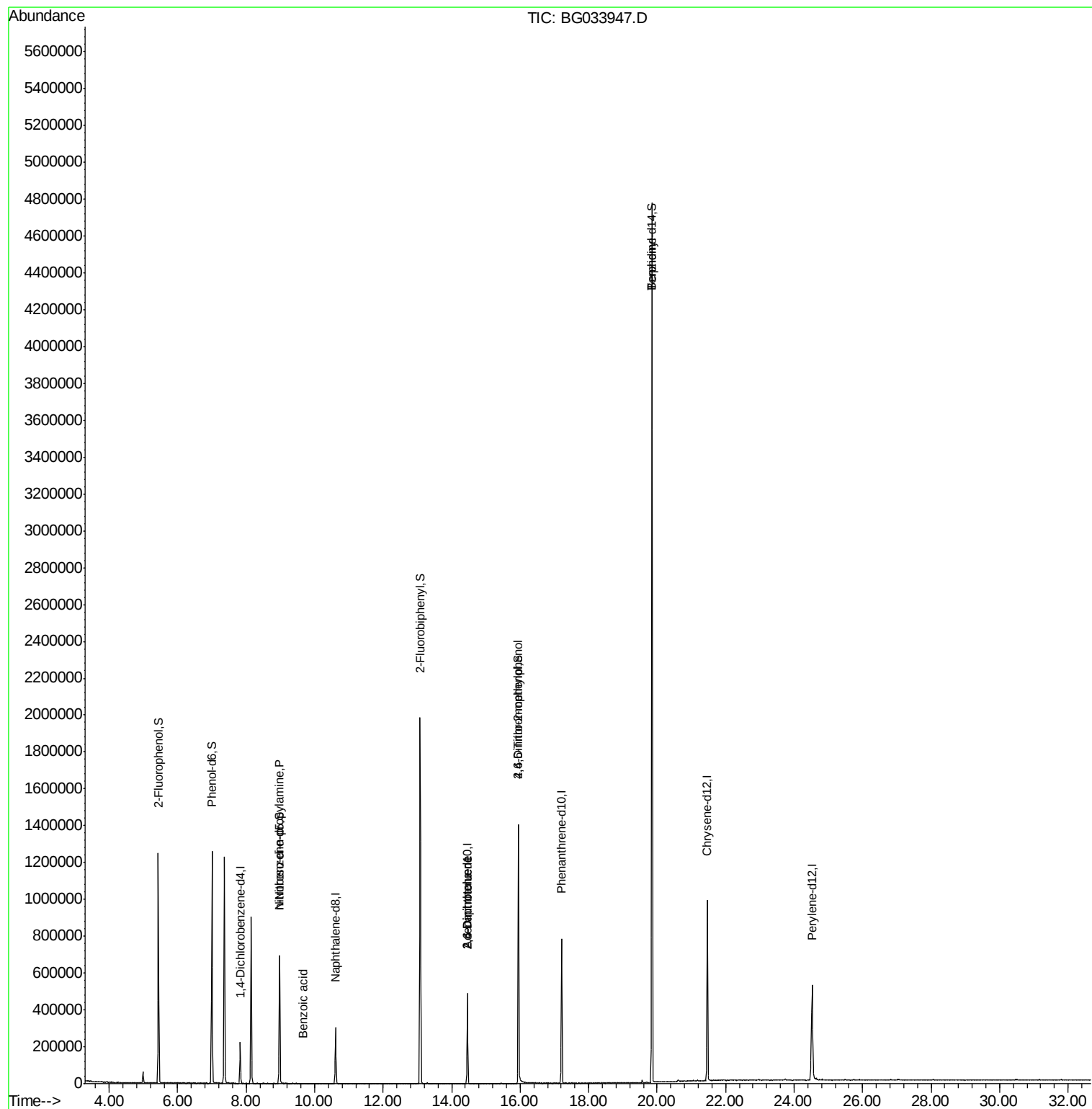
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.83  | 152  | 61073    | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 10.61 | 136  | 258136   | 20.00     | ng     | -0.02    |
| 38) Acenaphthene-d10           | 14.46 | 164  | 171052   | 20.00     | ng     | -0.02    |
| 63) Phenanthrene-d10           | 17.21 | 188  | 482853   | 20.00     | ng     | -0.02    |
| 75) Chrysene-d12               | 21.46 | 240  | 558024   | 20.00     | ng     | -0.03    |
| 86) Perylene-d12               | 24.53 | 264  | 547898   | 20.00     | ng     | -0.03    |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.44  | 112  | 533788   | 139.54    | ng     | 0.00     |
| 7) Phenol-d6                   | 7.00  | 99   | 697731   | 125.05    | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 8.97  | 82   | 416258   | 91.77     | ng     | -0.02    |
| 41) 2,4,6-Tribromophenol       | 15.95 | 330  | 274013   | 137.31    | ng     | -0.02    |
| 44) 2-Fluorobiphenyl           | 13.08 | 172  | 1063963  | 91.37     | ng     | -0.02    |
| 78) Terphenyl-d14              | 19.85 | 244  | 2121823  | 85.42     | ng     | -0.02    |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 6.99  | 77   | 1379     | Below Cal | Qvalue | # 5      |
| 19) n-Nitroso-di-n-propylamine | 8.97  | 70   | 56748    | 11.932 ng | #      | 80       |
| 32) Benzoic acid               | 9.67  | 122  | 57       | 5.098 ng  | #      | 1        |
| 50) 2,6-Dinitrotoluene         | 14.46 | 165  | 21375    | 7.496 ng  | #      | 21       |
| 56) 2,4-Dinitrotoluene         | 14.46 | 165  | 21375    | 5.637 ng  | #      | 19       |
| 64) 4,6-Dinitro-2-methylphenol | 15.95 | 198  | 707      | 6.752 ng  | #      | 71       |
| 76) Benzydine                  | 19.85 | 184  | 34555    | 2.293 ng  | #      | 90       |

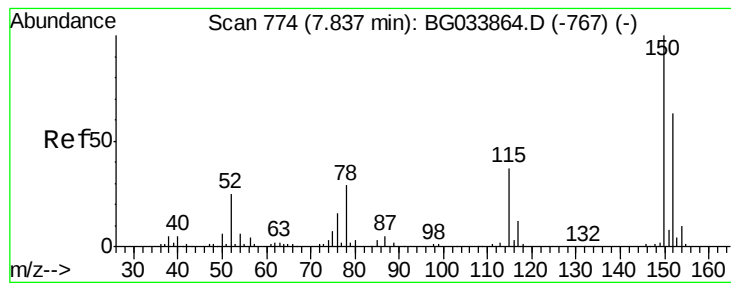
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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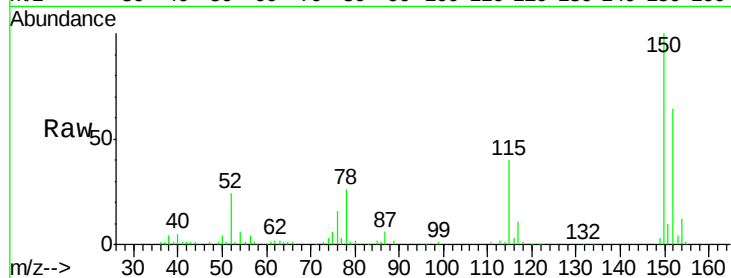




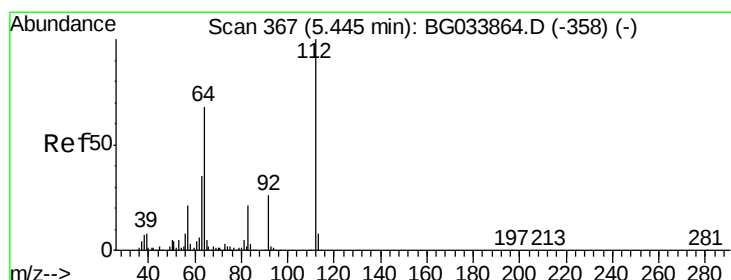
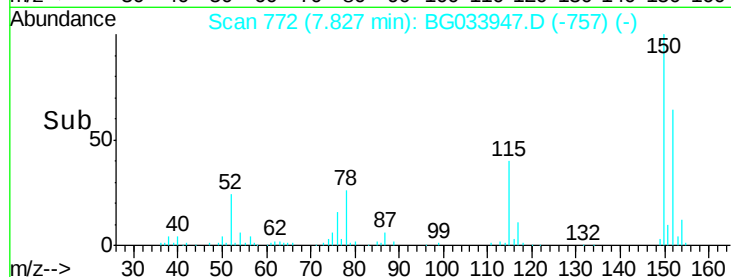
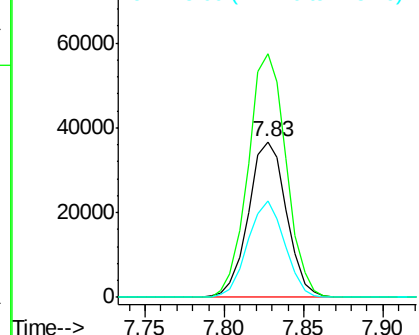
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.83 min Scan# 772  
 Delta R.T. -0.01 min  
 Lab File: BG033947.D  
 Acq: 24 Apr 2018 8:38

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:152 Resp: 61073  
 Ion Ratio Lower Upper  
 152 100  
 150 156.7 126.6 189.8  
 115 62.5 53.0 79.4

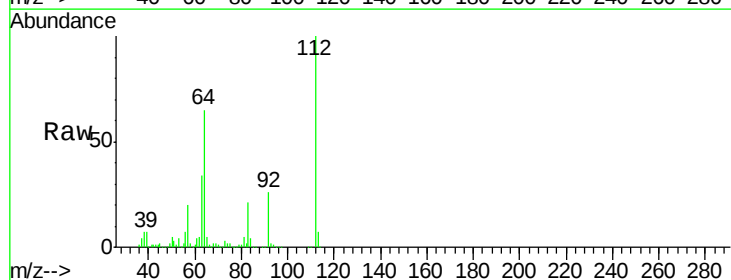


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

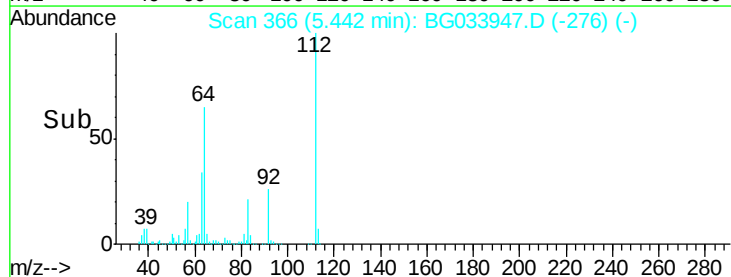
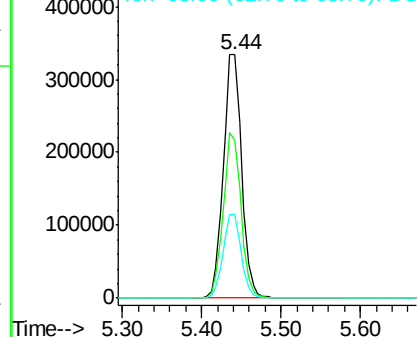


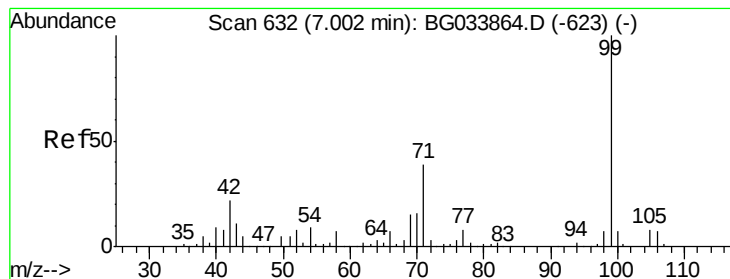
#5  
 2-Fluorophenol  
 Concen: 139.540 ng  
 RT: 5.44 min Scan# 366  
 Delta R.T. -0.00 min  
 Lab File: BG033947.D  
 Acq: 24 Apr 2018 8:38

Tgt Ion:112 Resp: 533788  
 Ion Ratio Lower Upper  
 112 100  
 64 64.7 56.3 84.5  
 63 34.1 30.1 45.1



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BG0  
 Ion 63.00 (62.70 to 63.70): BG0





#7

Phenol-d6

Concen: 125.053 ng

RT: 7.00 min Scan# 631

Delta R.T. -0.00 min

Lab File: BG033947.D

Acq: 24 Apr 2018 8:38

Instrument :

BNA\_G

ClientSampled :

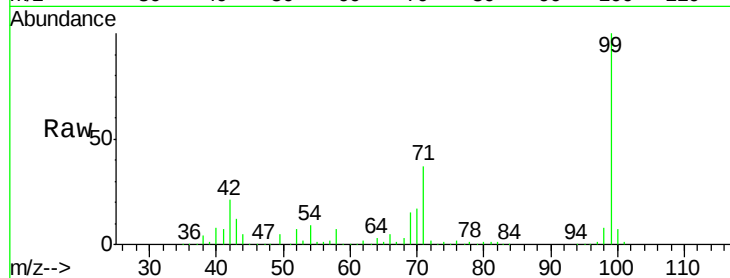
Tot Ion: 99 Resp: 697731

Ion Ratio Lower Upper

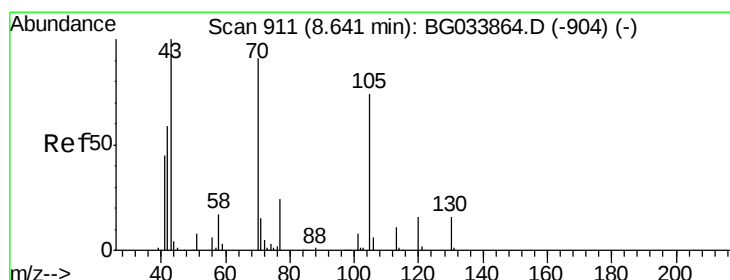
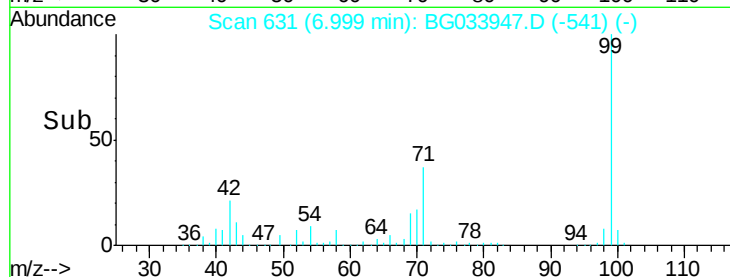
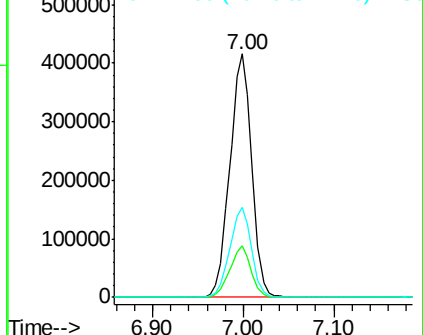
99 100

42 21.0 14.1 21.1

71 36.9 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



#19

n-Nitroso-di-n-propylamine

Concen: 11.932 ng

RT: 8.97 min Scan# 967

Delta R.T. 0.33 min

Lab File: BG033947.D

Acq: 24 Apr 2018 8:38

Tgt Ion: 70 Resp: 56748

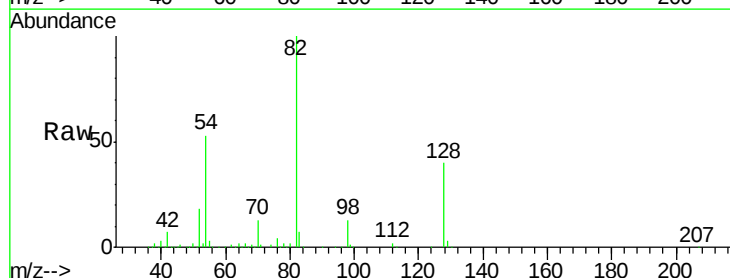
Ion Ratio Lower Upper

70 100

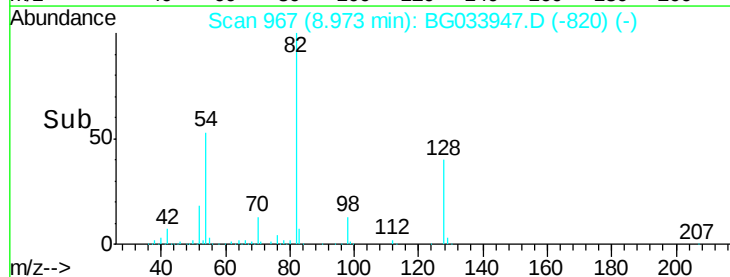
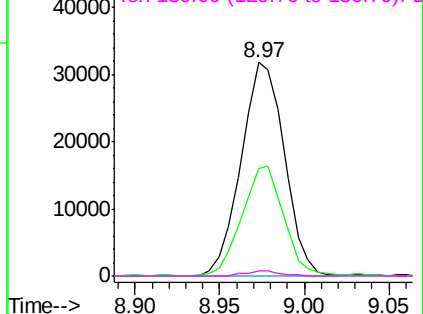
42 50.1 49.1 73.7

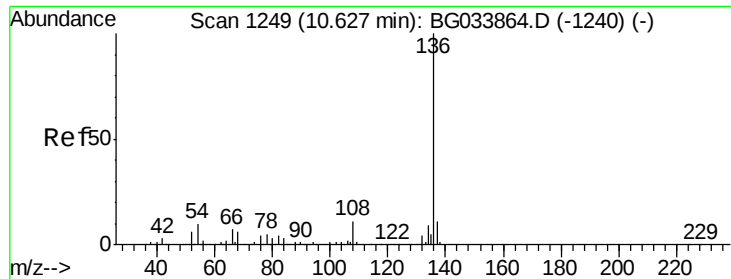
101 0.0 8.5 12.7#

130 2.3 13.4 20.0#



Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC

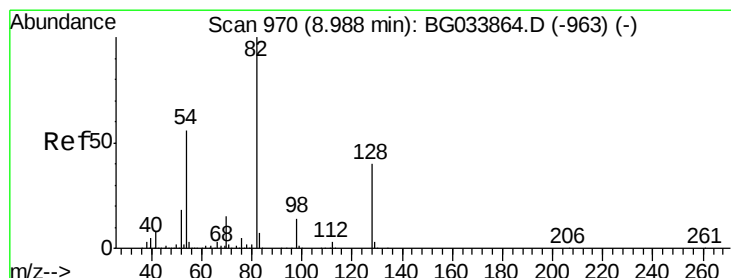
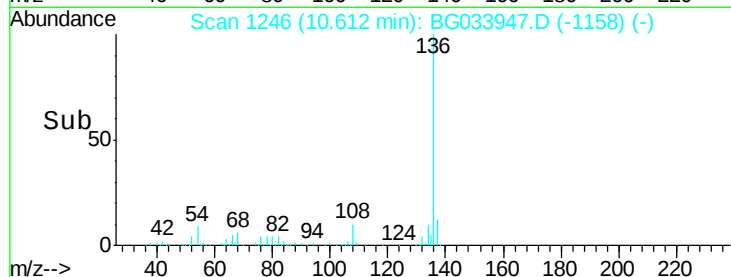
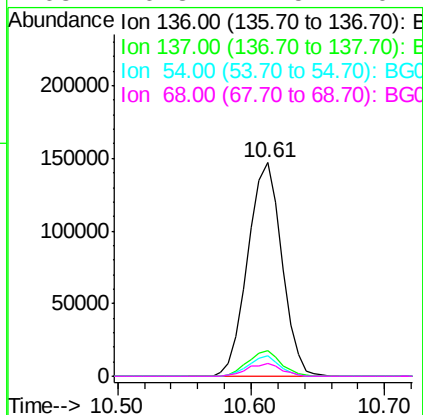
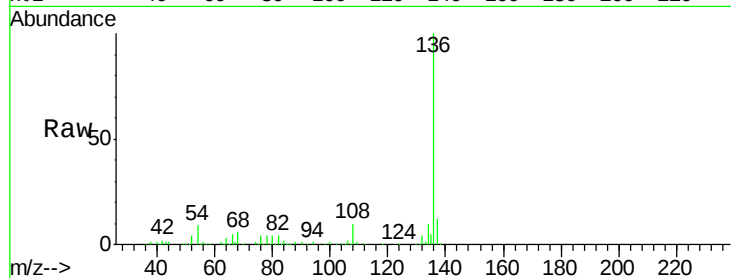




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.61 min Scan# 1246  
Delta R.T. -0.02 min  
Lab File: BG033947.D  
Acq: 24 Apr 2018 8:38

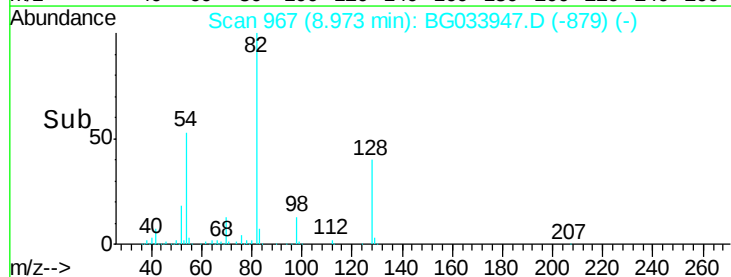
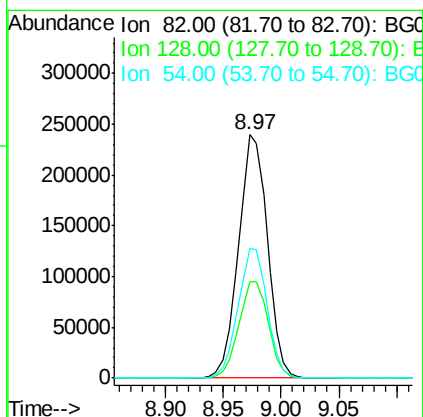
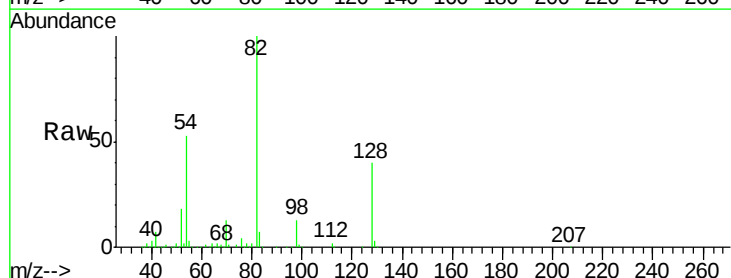
Instrument :  
BNA\_G  
ClientSampleId :

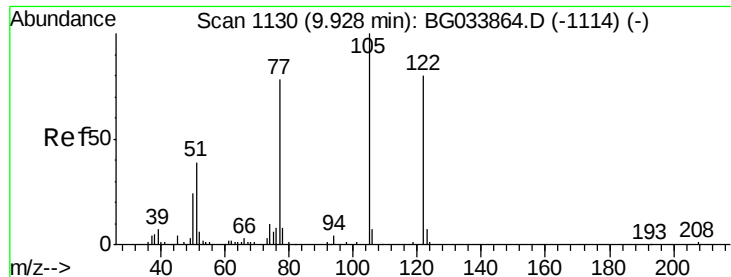
|             |       |            |
|-------------|-------|------------|
| Tot Ion:136 | Resp: | 258136     |
| Ion Ratio   | Lower | Upper      |
| 136         | 100   |            |
| 137         | 11.8  | 9.2 13.8   |
| 54          | 9.4   | 10.3 15.5# |
| 68          | 6.3   | 4.5 6.7    |



#23  
Nitrobenzene-d5  
Concen: 91.770 ng  
RT: 8.97 min Scan# 967  
Delta R.T. -0.02 min  
Lab File: BG033947.D  
Acq: 24 Apr 2018 8:38

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 416258    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 39.7  | 29.7 44.5 |
| 54          | 53.4  | 43.1 64.7 |

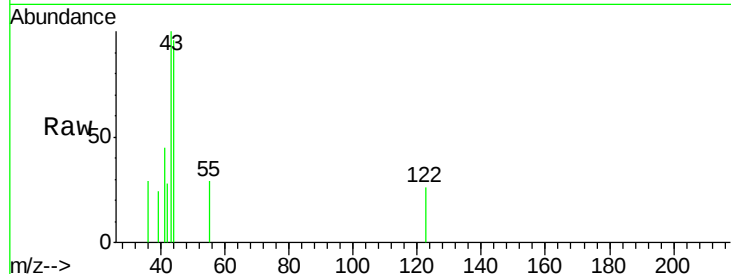




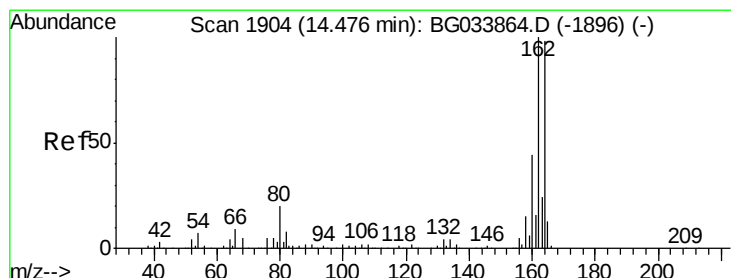
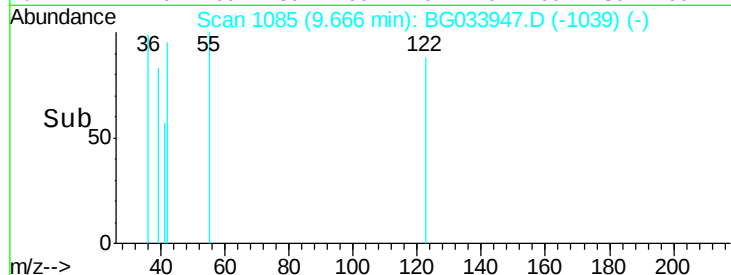
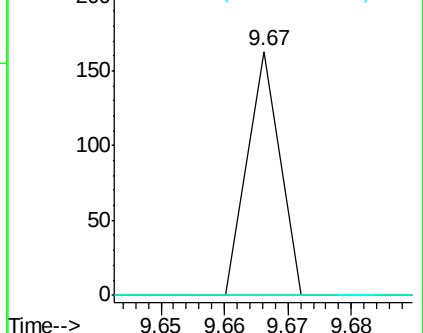
#32  
Benzoic acid  
Concen: 5.098 ng  
RT: 9.67 min Scan# 1085  
Delta R.T. -0.26 min  
Lab File: BG033947.D  
Acq: 24 Apr 2018 8:38

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 122     | 100   |       |        |
| 105     | 0.0   | 123.5 | 163.5# |
| 77      | 0.0   | 85.7  | 125.7# |

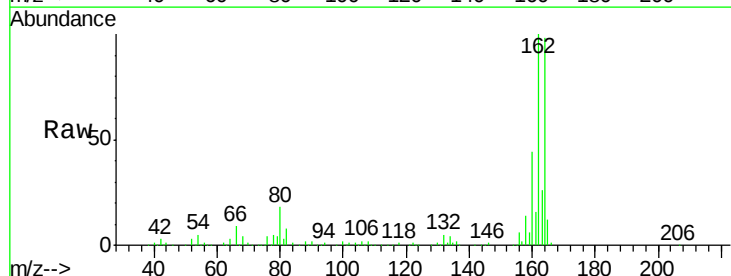


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BGC

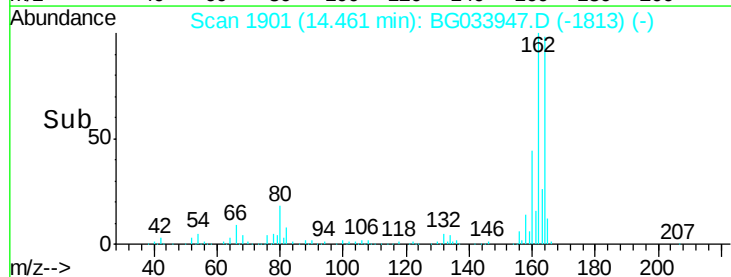
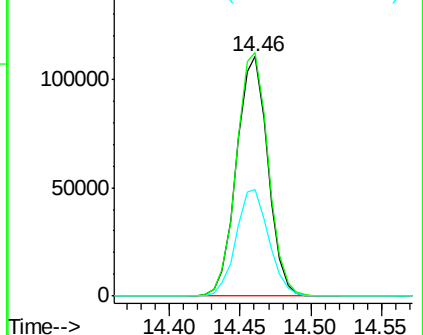


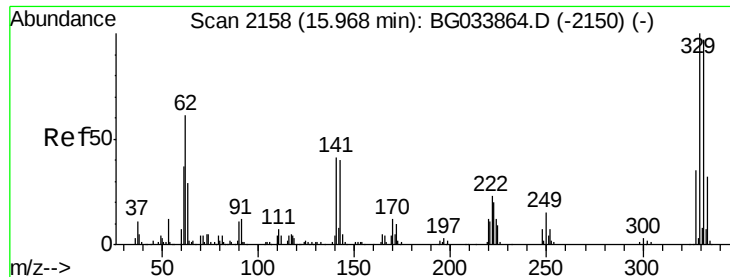
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.46 min Scan# 1901  
Delta R.T. -0.02 min  
Lab File: BG033947.D  
Acq: 24 Apr 2018 8:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.7 | 78.8  | 118.2 |
| 160     | 44.5  | 35.4  | 53.0  |



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

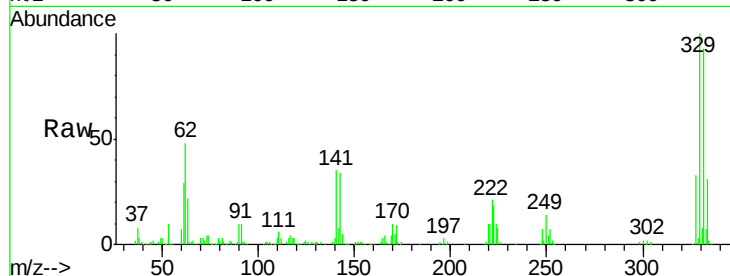




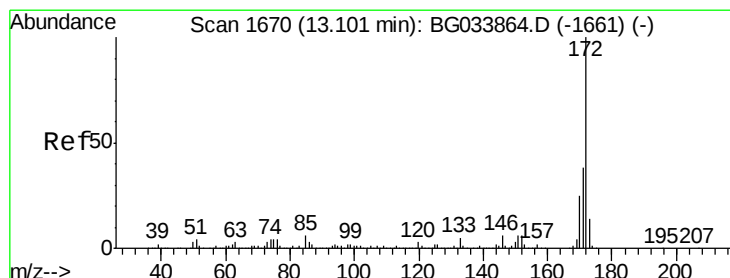
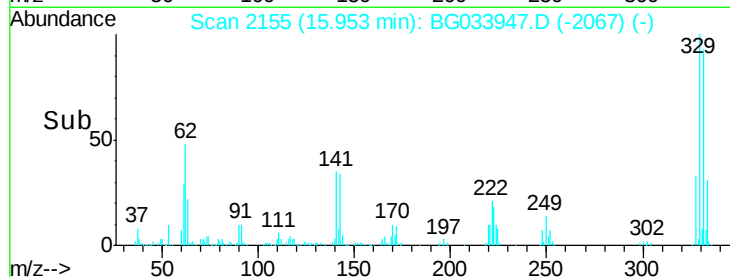
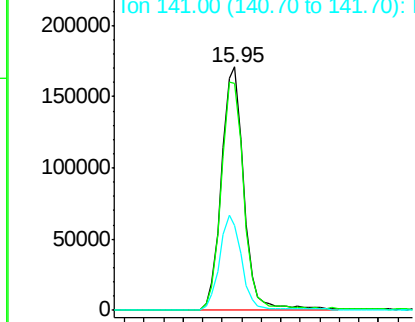
#41  
 2,4,6-Tribromophenol  
 Concen: 137.309 ng  
 RT: 15.95 min Scan# 2155  
 Delta R.T. -0.02 min  
 Lab File: BG033947.D  
 Acq: 24 Apr 2018 8:38

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:330 Resp: 274013  
 Ion Ratio Lower Upper  
 330 100  
 332 95.2 77.0 115.6  
 141 38.5 25.2 37.8#

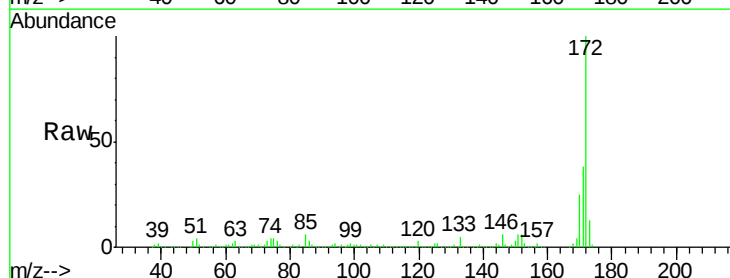


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

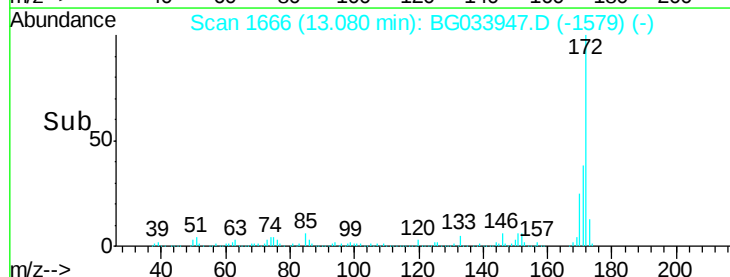
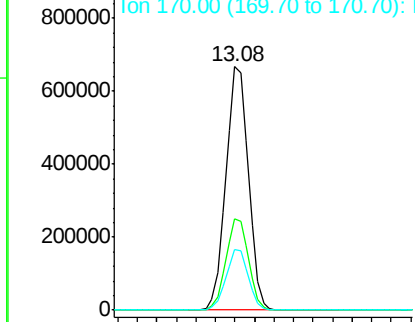


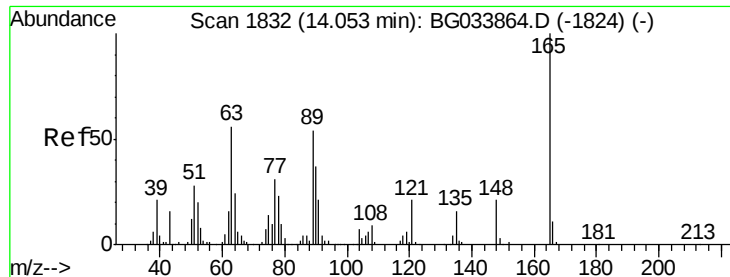
#44  
 2-Fluorobiphenyl  
 Concen: 91.375 ng  
 RT: 13.08 min Scan# 1666  
 Delta R.T. -0.02 min  
 Lab File: BG033947.D  
 Acq: 24 Apr 2018 8:38

Tgt Ion:172 Resp: 1063963  
 Ion Ratio Lower Upper  
 172 100  
 171 37.7 30.0 45.0  
 170 25.0 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

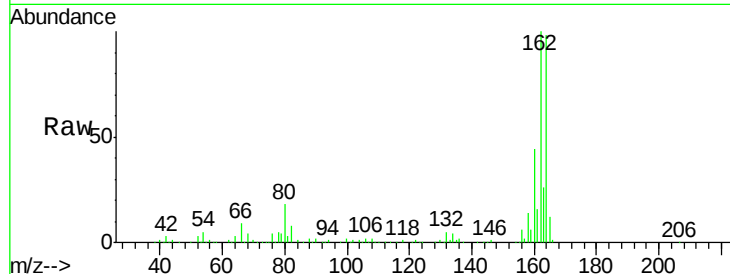




#50  
 2,6-Dinitrotoluene  
 Concen: 7.496 ng  
 RT: 14.46 min Scan# 1901  
 Delta R.T. 0.41 min  
 Lab File: BG033947.D  
 Acq: 24 Apr 2018 8:38

Instrument :  
 BNA\_G  
 ClientSampleId :

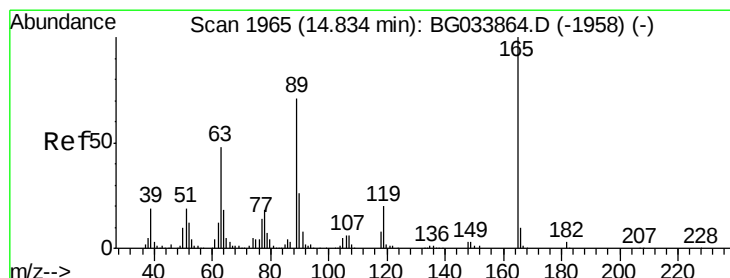
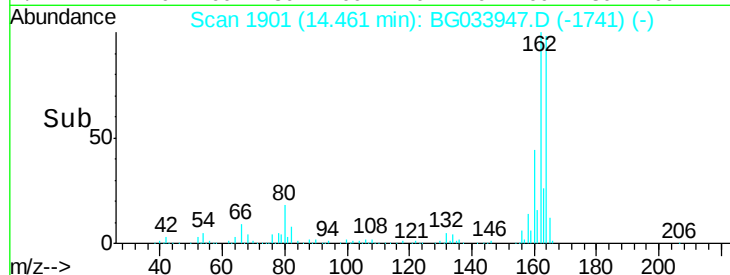
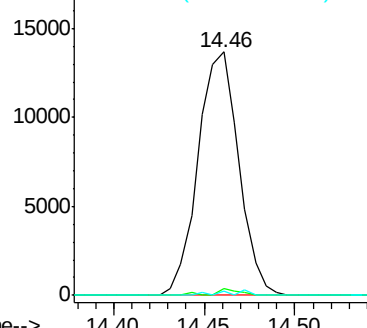
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 2.6   | 52.7  | 79.1# |
| 89      | 1.6   | 49.2  | 73.8# |



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



#56  
 2,4-Dinitrotoluene  
 Concen: 5.637 ng  
 RT: 14.46 min Scan# 1901  
 Delta R.T. -0.37 min  
 Lab File: BG033947.D  
 Acq: 24 Apr 2018 8:38

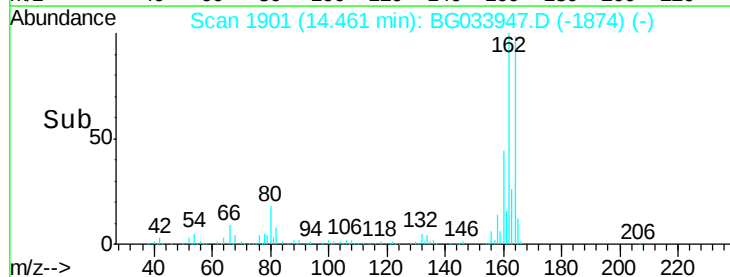
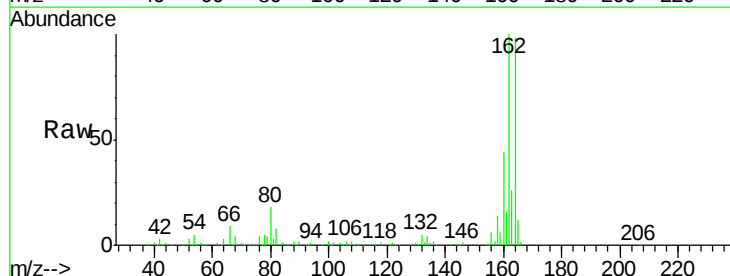
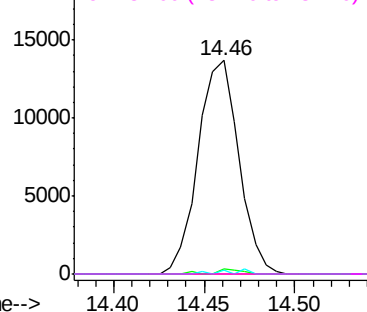
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 165     | 100   |       |        |
| 63      | 2.6   | 42.0  | 63.0#  |
| 89      | 1.6   | 66.9  | 100.3# |
| 182     | 0.0   | 2.6   | 3.8#   |

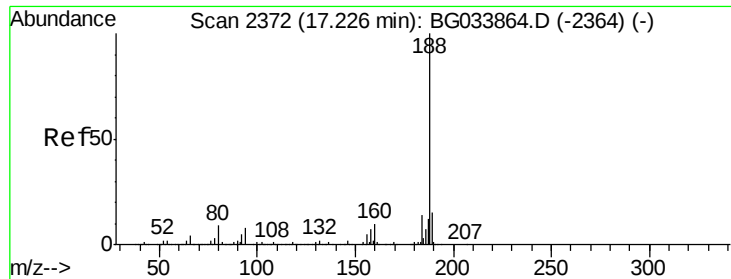
Abundance Ion 165.00 (164.70 to 165.70): E

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

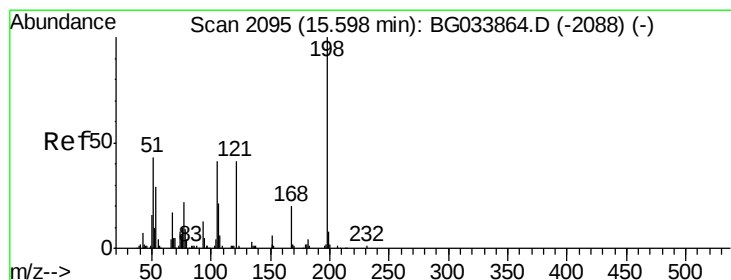
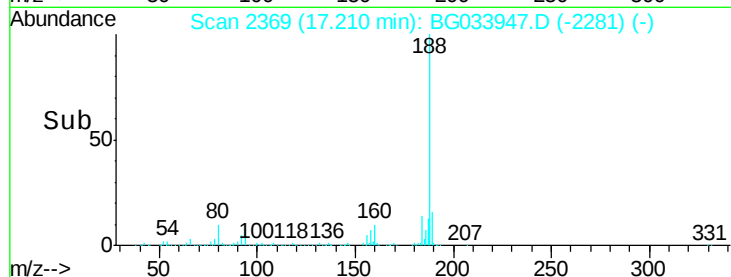
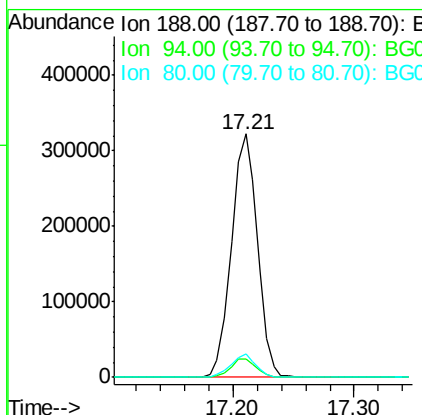
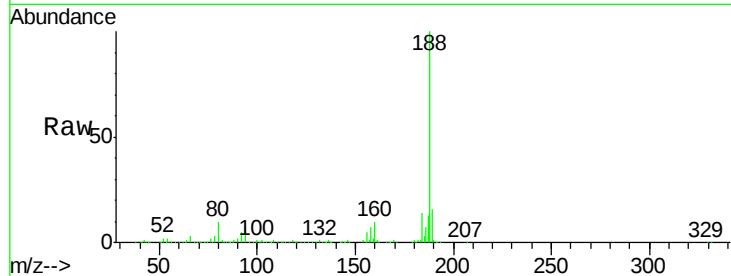




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.21 min Scan# 2369  
Delta R.T. -0.02 min  
Lab File: BG033947.D  
Acq: 24 Apr 2018 8:38

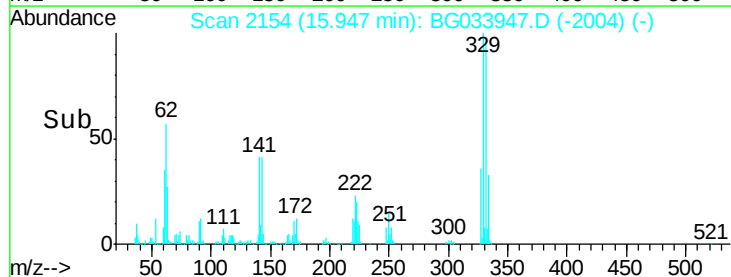
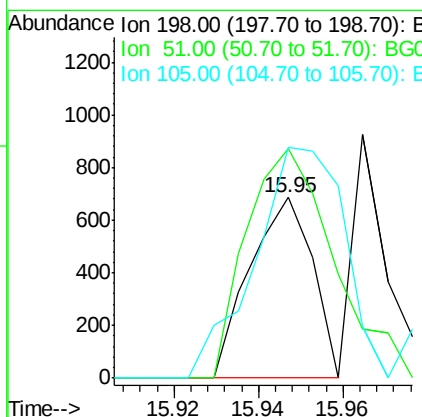
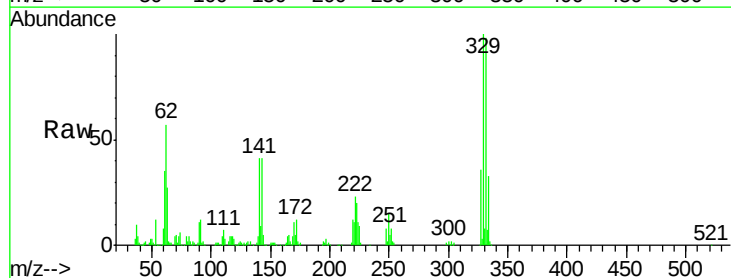
Instrument :  
BNA\_G  
ClientSampleId :

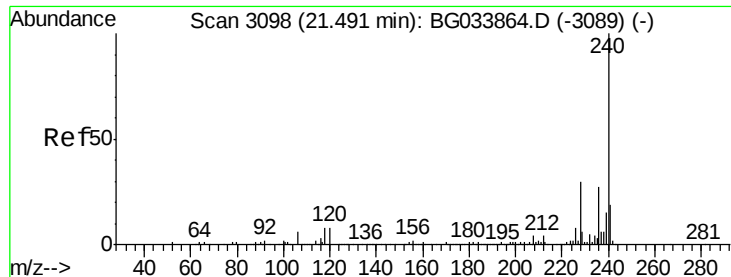
Tot Ion:188 Resp: 482853  
Ion Ratio Lower Upper  
188 100  
94 7.5 6.9 10.3  
80 9.5 7.7 11.5



#64  
4,6-Dinitro-2-methylphenol  
Concen: 6.752 ng  
RT: 15.95 min Scan# 2154  
Delta R.T. 0.35 min  
Lab File: BG033947.D  
Acq: 24 Apr 2018 8:38

Tgt Ion:198 Resp: 707  
Ion Ratio Lower Upper  
198 100  
51 27.9 30.6 70.6#  
105 28.1 23.8 63.8





#75

Chrysene-d12

Concen: 20.000 ng

RT: 21.46 min Scan# 3093

Delta R.T. -0.03 min

Lab File: BG033947.D

Acq: 24 Apr 2018 8:38

Instrument :

BNA\_G

ClientSampleId :

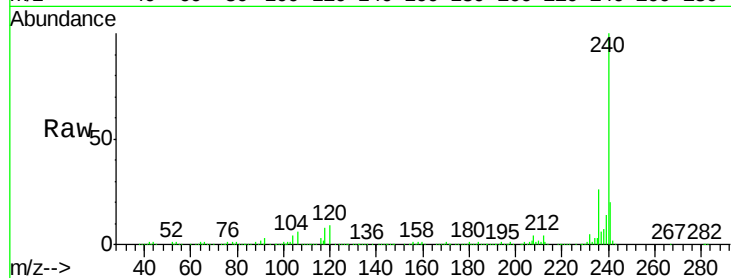
Tot Ion:240 Resp: 558024

Ion Ratio Lower Upper

240 100

120 8.5 6.8 10.2

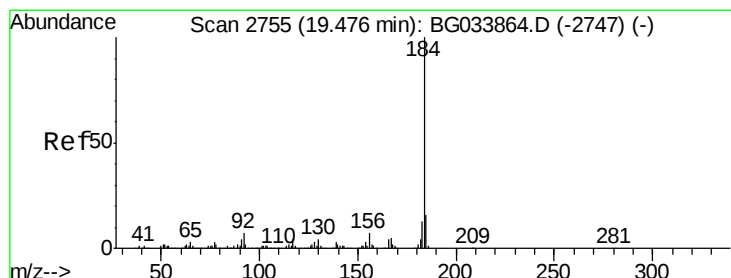
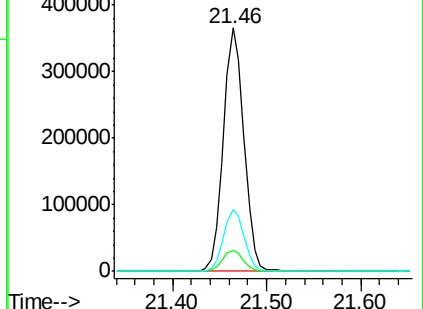
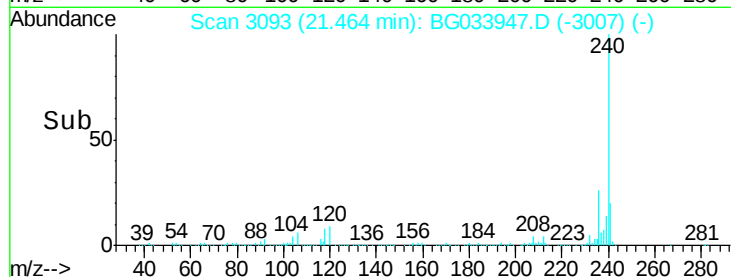
236 25.6 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#76

Benzidine

Concen: 2.293 ng

RT: 19.85 min Scan# 2818

Delta R.T. 0.37 min

Lab File: BG033947.D

Acq: 24 Apr 2018 8:38

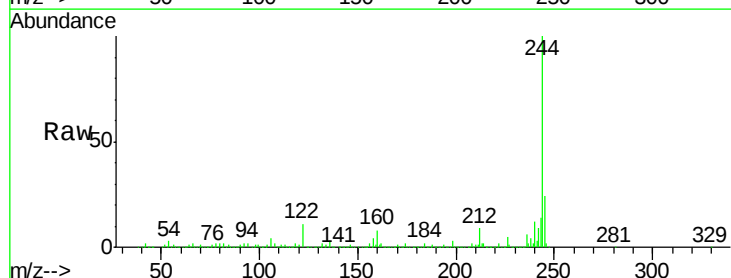
Tgt Ion:184 Resp: 34555

Ion Ratio Lower Upper

184 100

185 17.7 11.1 16.7#

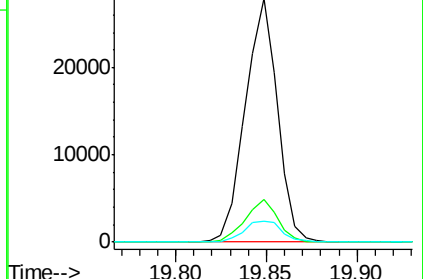
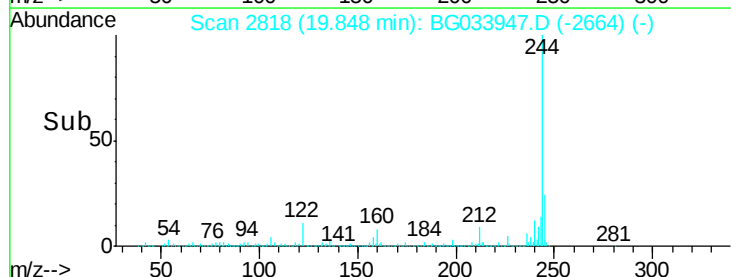
183 8.7 10.6 16.0#

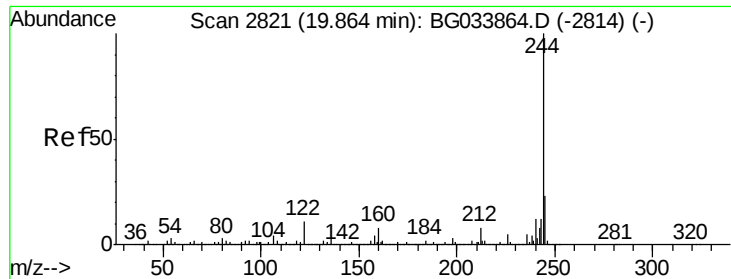


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#78

Terphenyl-d14

Concen: 85.425 ng

RT: 19.85 min Scan# 2818

Delta R.T. -0.02 min

Lab File: BG033947.D

Acq: 24 Apr 2018 8:38

Instrument :

BNA\_G

ClientSampleId :

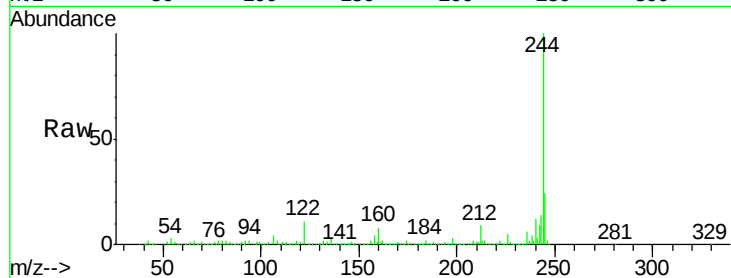
Tot Ion:244 Resp: 2121823

Ion Ratio Lower Upper

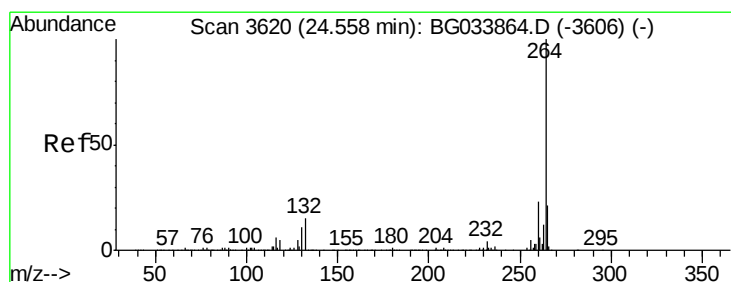
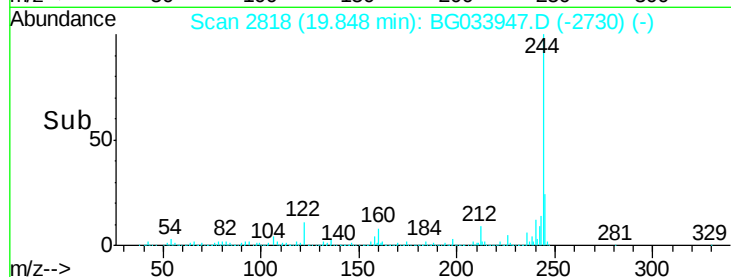
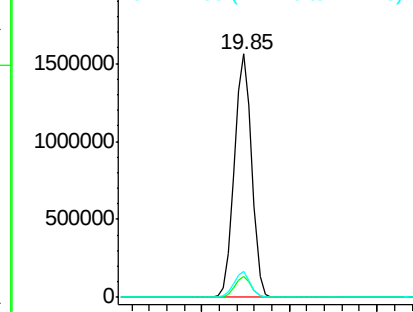
244 100

212 8.8 5.8 8.8#

122 10.7 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



#86

Perylene-d12

Concen: 20.000 ng

RT: 24.53 min Scan# 3614

Delta R.T. -0.03 min

Lab File: BG033947.D

Acq: 24 Apr 2018 8:38

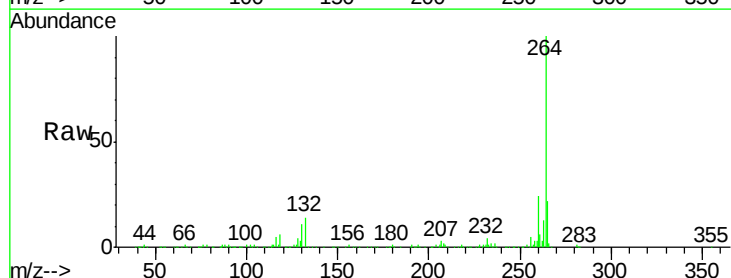
Tgt Ion:264 Resp: 547898

Ion Ratio Lower Upper

264 100

260 24.2 17.4 26.0

265 22.5 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

