

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG120718\  
 Data File : BG038411.D  
 Acq On : 7 Dec 2018 20:08  
 Operator : JU/SJ  
 Sample : J6195-04  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-01-120518-B

Quant Time: Dec 07 22:13:56 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG120418.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 04 17:15:40 2018  
 Response via : Initial Calibration

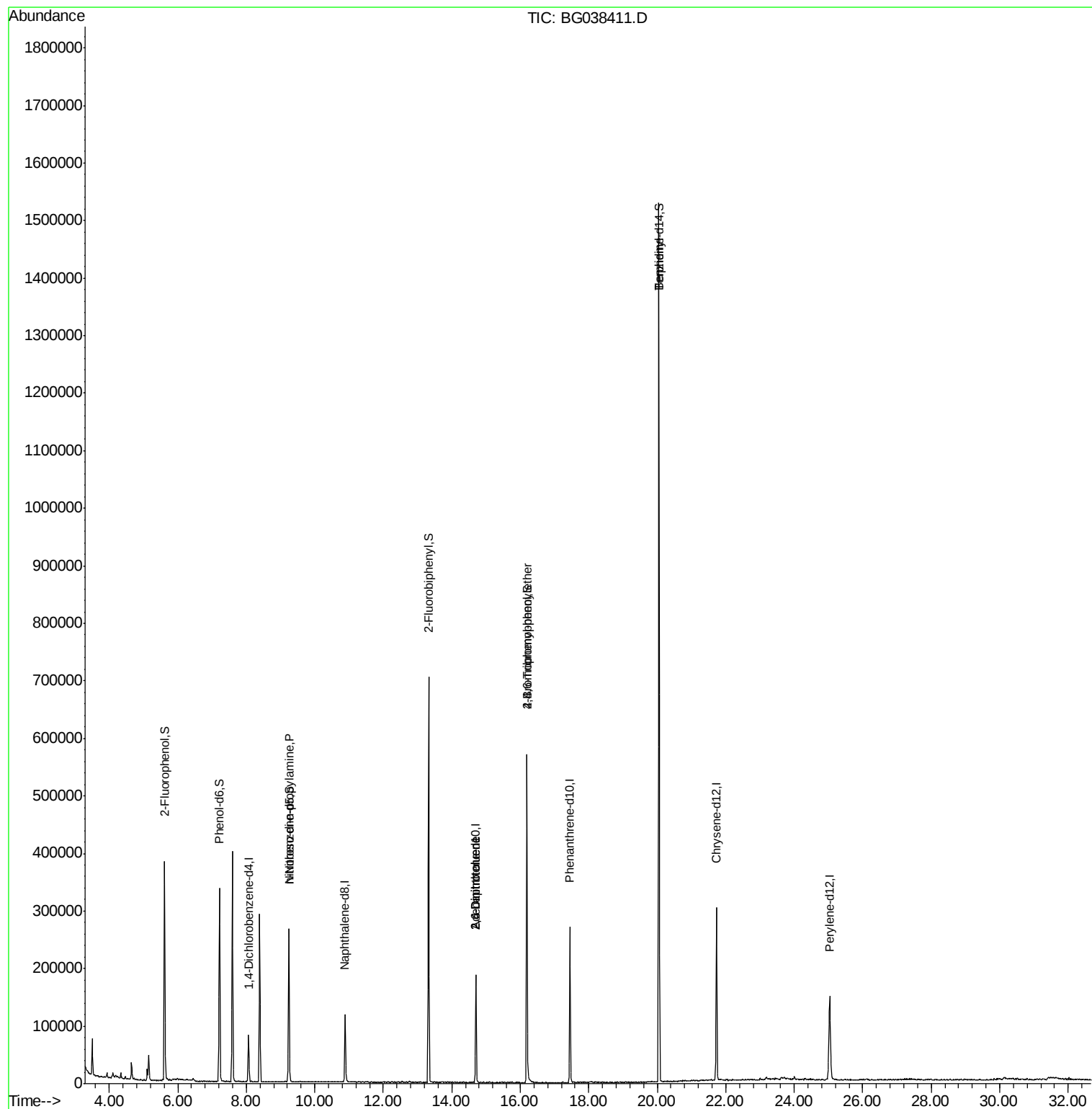
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.07  | 152  | 23917    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.89 | 136  | 109955   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.70 | 164  | 67197    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.45 | 188  | 179030   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.73 | 240  | 180340   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 25.03 | 264  | 188065   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.61  | 112  | 171864   | 127.16 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.22  | 99   | 195840   | 100.26 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.25  | 82   | 164067   | 74.08  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.19 | 330  | 114421   | 138.70 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.32 | 172  | 377563   | 80.06  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.05 | 244  | 736230   | 87.46  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.25  | 70   | 21406    | 13.604 | ng    | # 78     |
| 51) 2,6-Dinitrotoluene         | 14.70 | 165  | 8554     | 6.948  | ng    | # 23     |
| 57) 2,4-Dinitrotoluene         | 14.70 | 165  | 8554     | 5.037  | ng    | # 23     |
| 67) 4-Bromophenyl-phenylether  | 16.20 | 248  | 8368     | 4.328  | ng    | # 1      |
| 77) Benzidine                  | 20.05 | 184  | 12898    | 2.119  | ng    | # 93     |

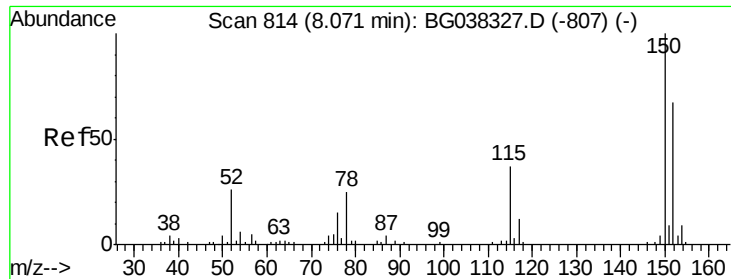
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG120718\  
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BNA\_G  
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Quant Time: Dec 07 22:13:56 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG120418.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 04 17:15:40 2018  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.07 min Scan# 814

Delta R.T. -0.00 min

Lab File: BG038411.D

Acq: 7 Dec 2018 20:08

Instrument :

BNA\_G

ClientSampleId :

OR-01-120518-B

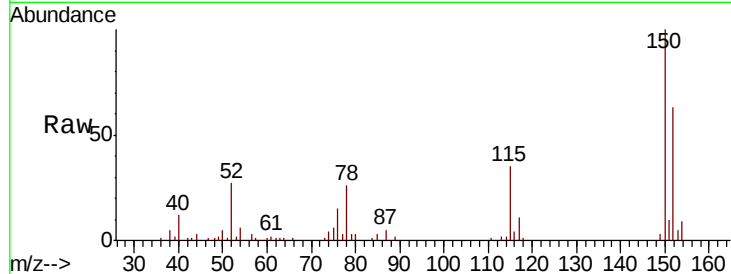
Tgt Ion:152 Resp: 23917

Ion Ratio Lower Upper

152 100

150 159.7 126.0 189.0

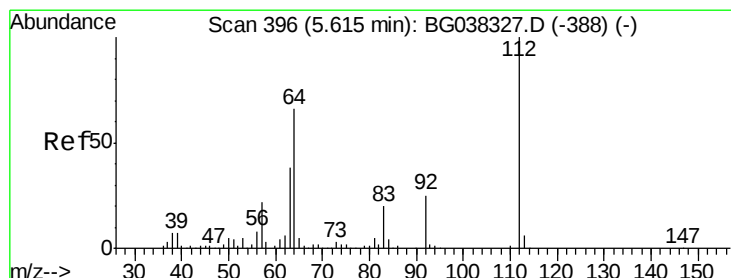
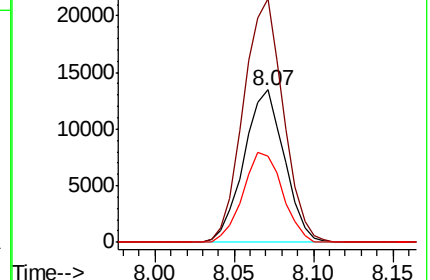
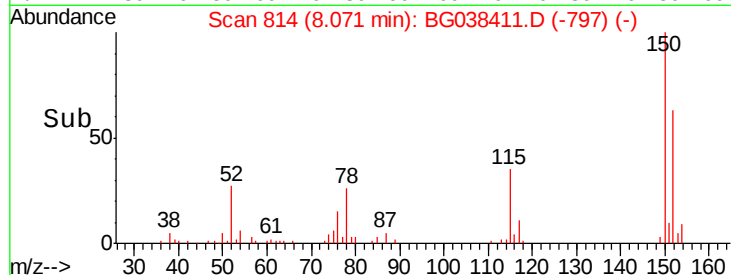
115 56.1 45.5 68.3



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: 127.164 ng

RT: 5.61 min Scan# 396

Delta R.T. -0.00 min

Lab File: BG038411.D

Acq: 7 Dec 2018 20:08

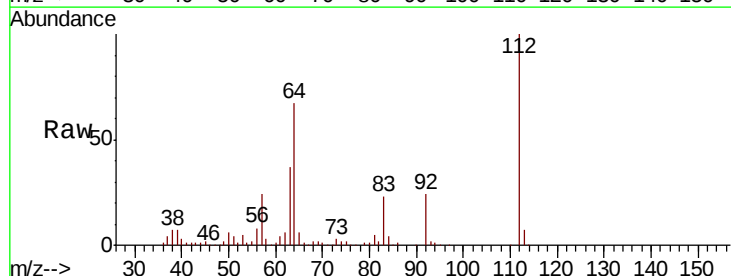
Tgt Ion:112 Resp: 171864

Ion Ratio Lower Upper

112 100

64 67.3 53.1 79.7

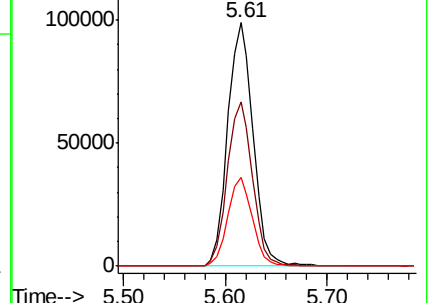
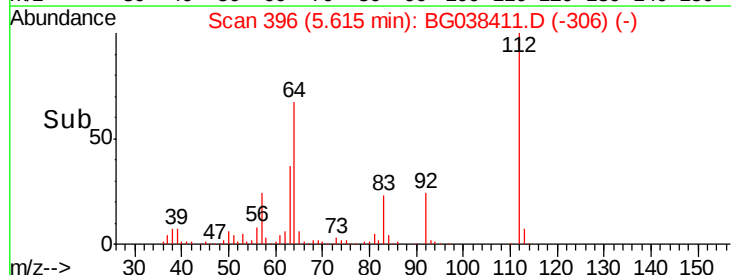
63 36.6 27.3 40.9

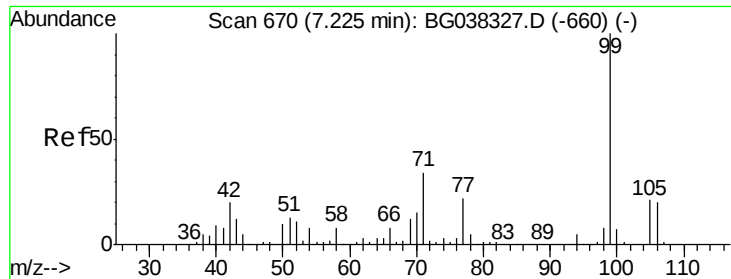


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC





#7

Phenol-d6

Concen: 100.256 ng

RT: 7.22 min Scan# 669

Delta R.T. -0.01 min

Lab File: BG038411.D

Acq: 7 Dec 2018 20:08

Instrument :

BNA\_G

ClientSampleId :

OR-01-120518-B

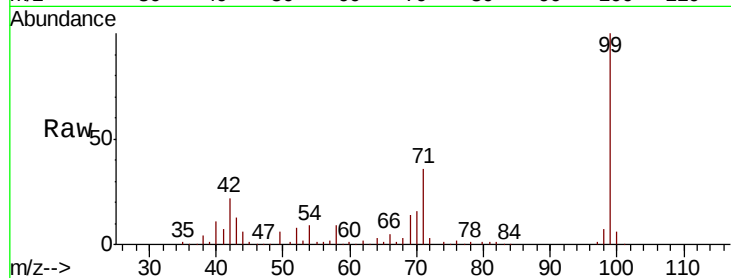
Tgt Ion: 99 Resp: 195840

Ion Ratio Lower Upper

99 100

42 22.1 15.0 22.4

71 35.7 25.5 38.3

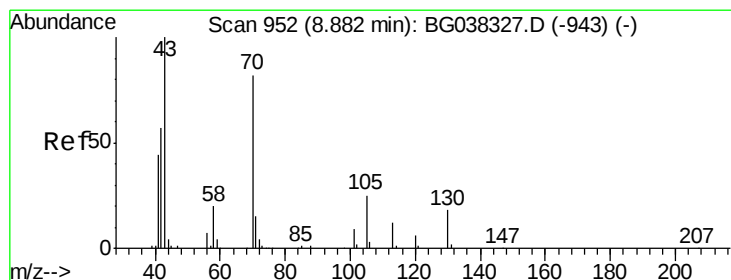
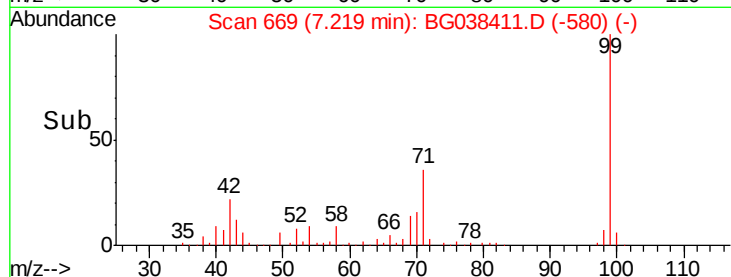
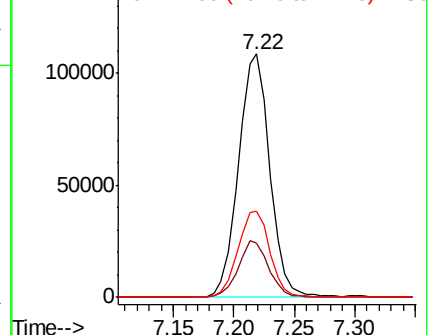


Abundance

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: 13.604 ng

RT: 9.25 min Scan# 1014

Delta R.T. 0.36 min

Lab File: BG038411.D

Acq: 7 Dec 2018 20:08

Tgt Ion: 70 Resp: 21406

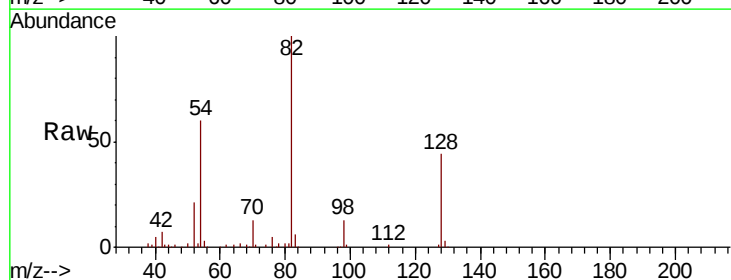
Ion Ratio Lower Upper

70 100

42 55.7 53.9 80.9

101 0.0 8.2 12.2#

130 2.7 18.2 27.4#



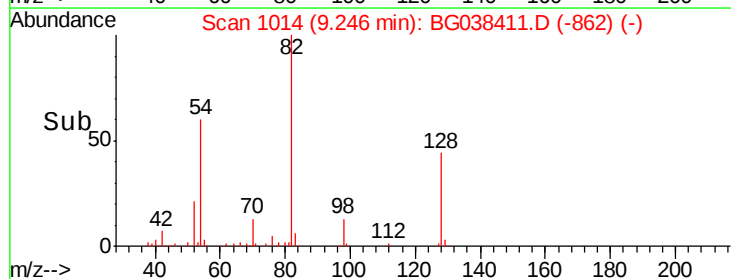
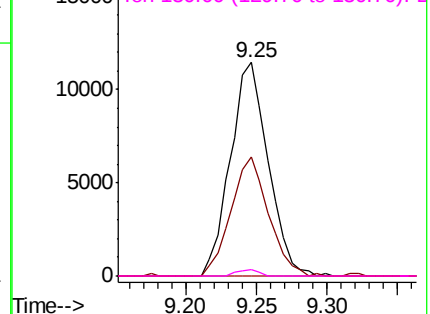
Abundance

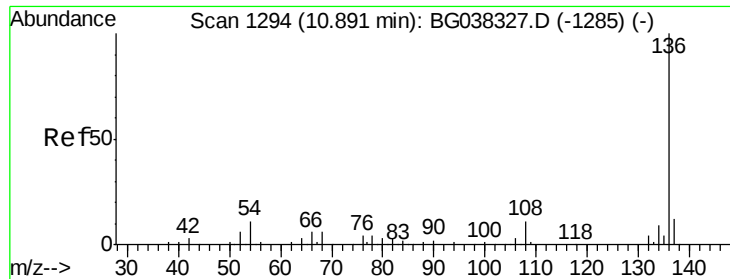
Ion 70.00 (69.70 to 70.70): BGC

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

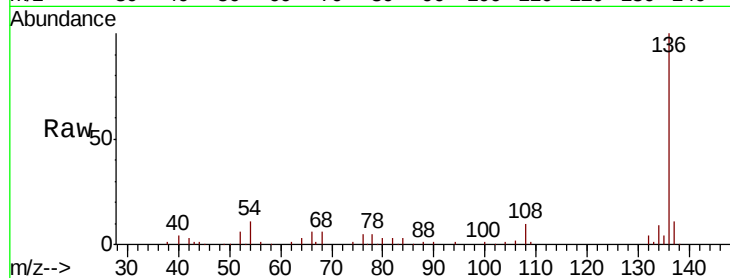




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.89 min Scan# 1293  
Delta R.T. -0.01 min  
Lab File: BG038411.D  
Acq: 7 Dec 2018 20:08

Instrument :  
BNA\_G  
ClientSampleId :  
OR-01-120518-B

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 109955 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 9.6   | 14.4   |
| 54       | 11.2  | 7.9   | 11.9   |
| 68       | 5.8   | 4.8   | 7.2    |



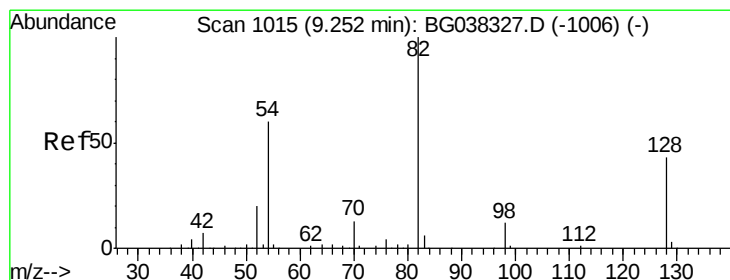
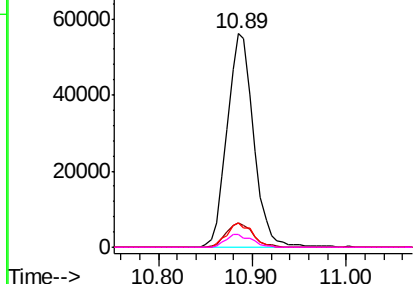
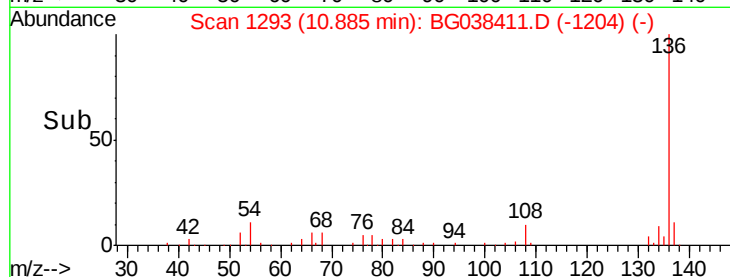
Abundance

Ion 136.00 (135.70 to 136.70): BGC

Ion 137.00 (136.70 to 137.70): BGC

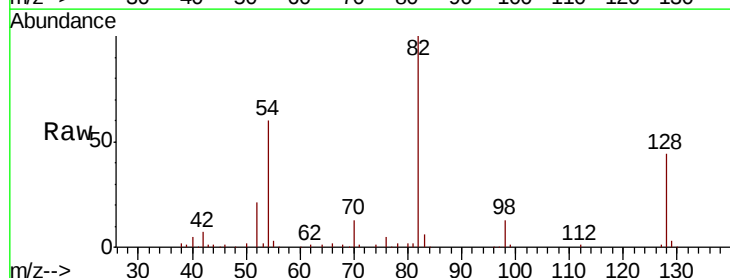
Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23  
Nitrobenzene-d5  
Concen: 74.081 ng  
RT: 9.25 min Scan# 1014  
Delta R.T. -0.01 min  
Lab File: BG038411.D  
Acq: 7 Dec 2018 20:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 164067 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.9  | 34.6  | 51.8   |
| 54       | 59.5  | 45.3  | 67.9   |

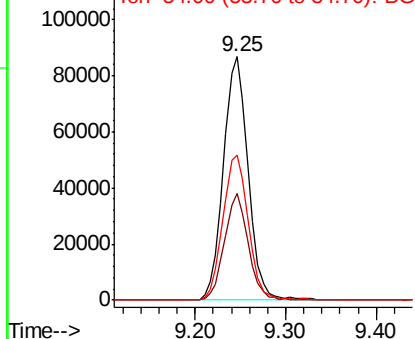
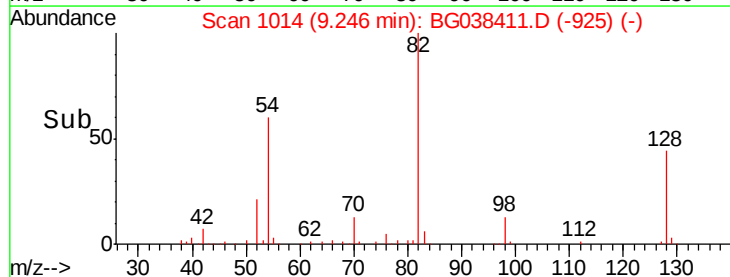


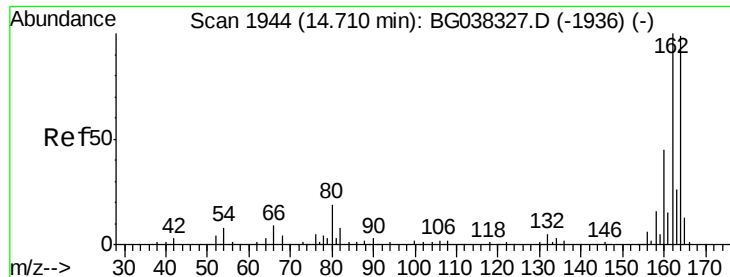
Abundance

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# 1943

Delta R.T. -0.01 min

Lab File: BG038411.D

Acq: 7 Dec 2018 20:08

Instrument :

BNA\_G

ClientSampleId :

OR-01-120518-B

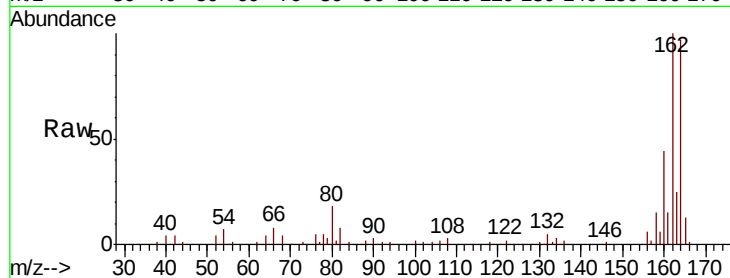
Tgt Ion:164 Resp: 67197

Ion Ratio Lower Upper

164 100

162 103.1 81.3 121.9

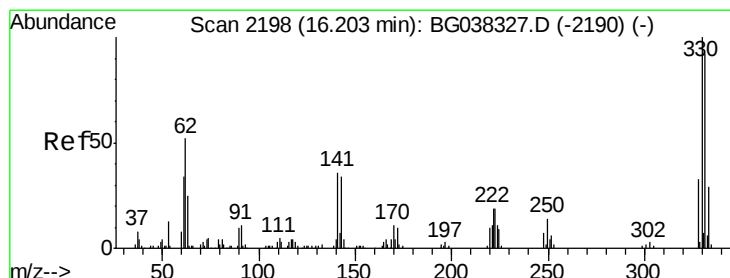
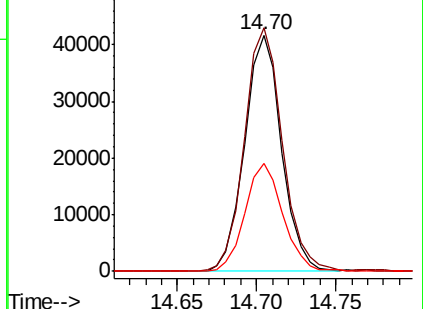
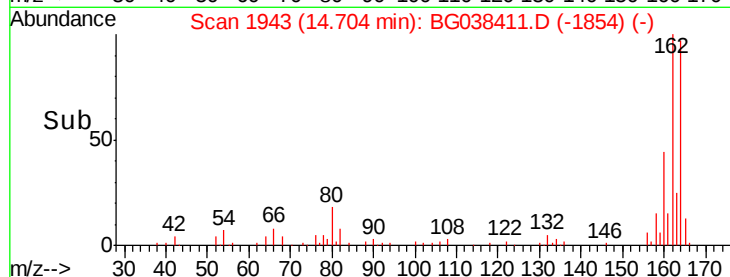
160 45.8 36.3 54.5



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



#42

2,4,6-Tribromophenol

Concen: 138.705 ng

RT: 16.19 min Scan# 2196

Delta R.T. -0.01 min

Lab File: BG038411.D

Acq: 7 Dec 2018 20:08

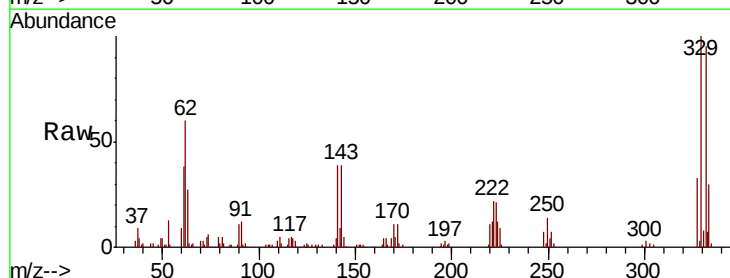
Tgt Ion:330 Resp: 114421

Ion Ratio Lower Upper

330 100

332 96.6 78.4 117.6

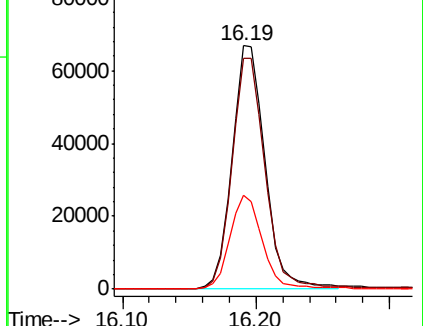
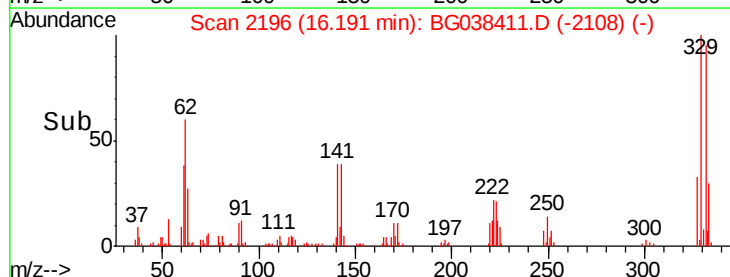
141 37.9 32.2 48.2

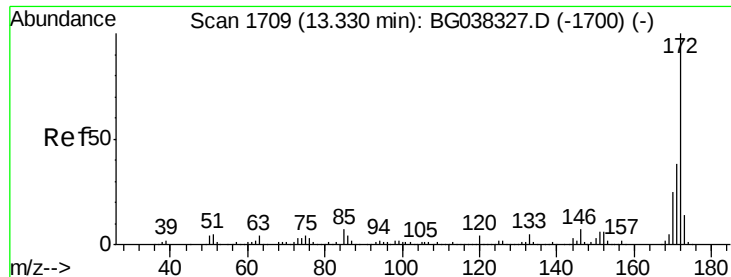


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

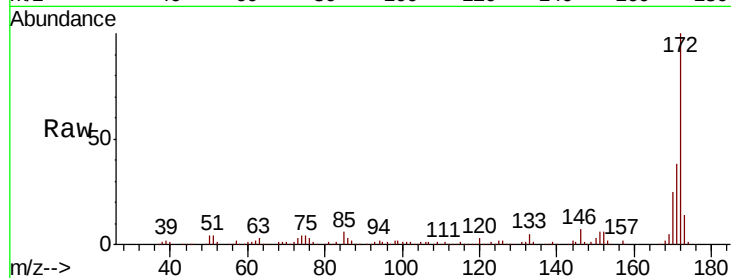




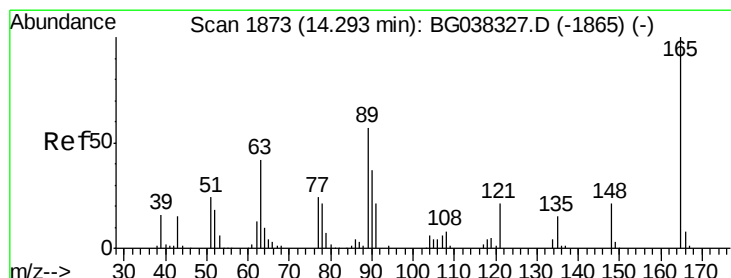
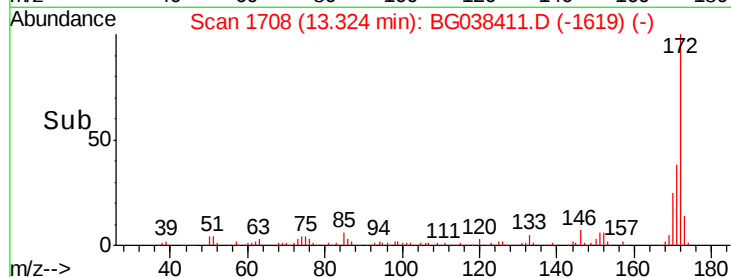
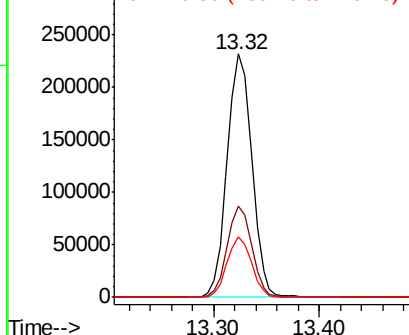
#45  
 2-Fluorobiphenyl  
 Concen: 80.062 ng  
 RT: 13.32 min Scan# 1708  
 Delta R.T. -0.01 min  
 Lab File: BG038411.D  
 Acq: 7 Dec 2018 20:08

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-01-120518-B

Tgt Ion:172 Resp: 377563  
 Ion Ratio Lower Upper  
 172 100  
 171 37.8 31.0 46.4  
 170 24.7 20.2 30.2

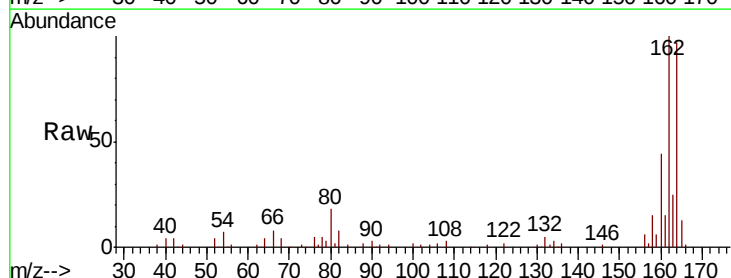


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

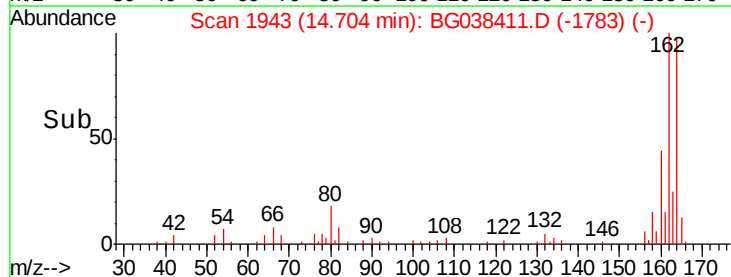
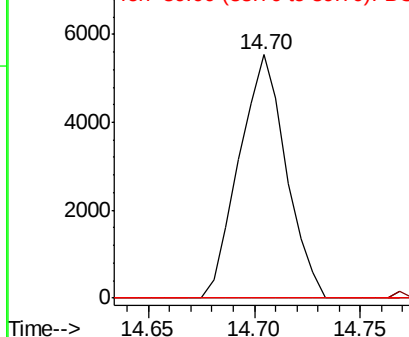


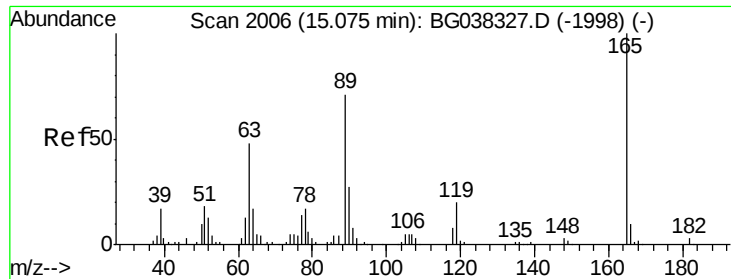
#51  
 2,6-Dinitrotoluene  
 Concen: 6.948 ng  
 RT: 14.70 min Scan# 1943  
 Delta R.T. 0.41 min  
 Lab File: BG038411.D  
 Acq: 7 Dec 2018 20:08

Tgt Ion:165 Resp: 8554  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 43.4 65.2#  
 89 0.0 45.8 68.6#



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

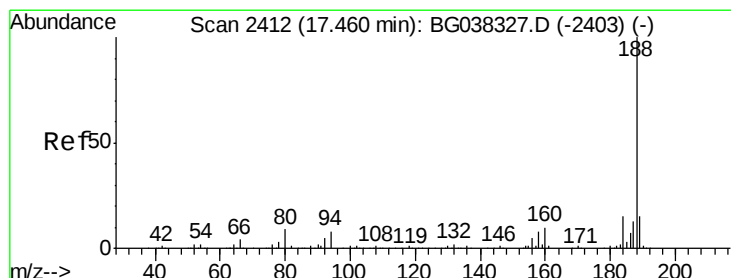
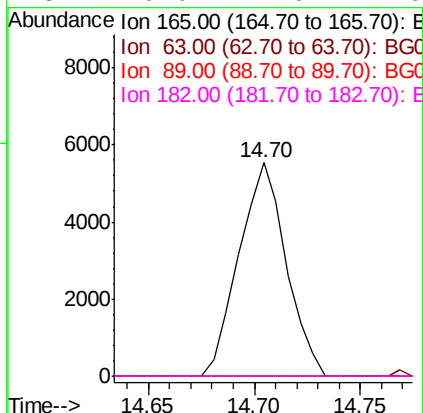
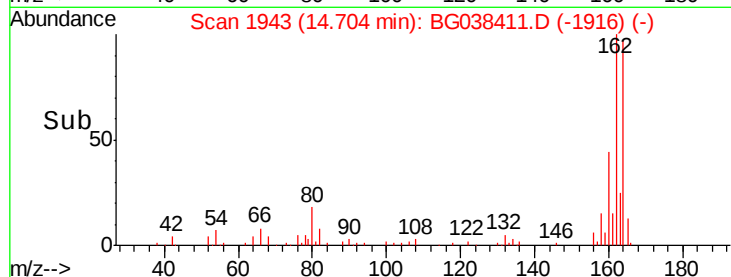
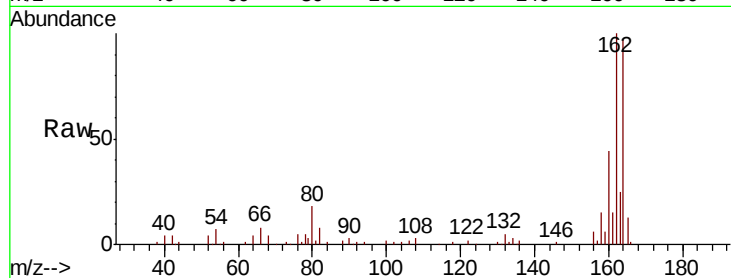




#57  
 2,4-Dinitrotoluene  
 Concen: 5.037 ng  
 RT: 14.70 min Scan# 1943  
 Delta R.T. -0.37 min  
 Lab File: BG038411.D  
 Acq: 7 Dec 2018 20:08

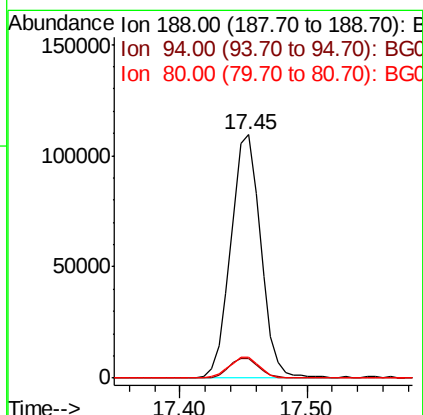
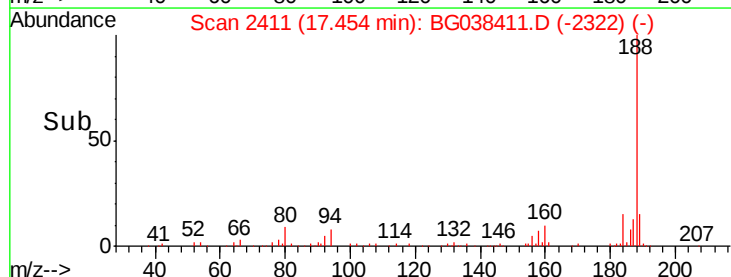
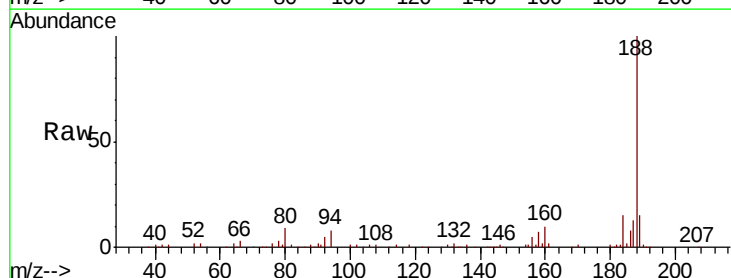
Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-01-120518-B

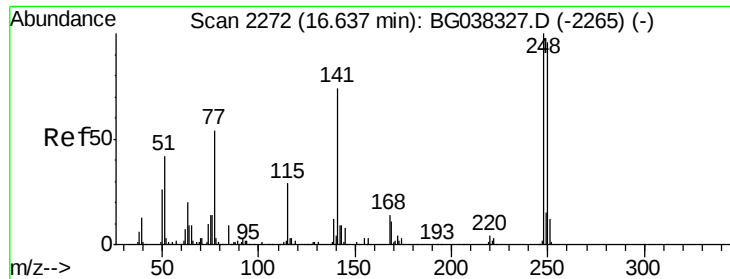
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 8554  |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 33.4  | 50.0# |
| 89       | 0.0   | 57.2  | 85.8# |
| 182      | 0.0   | 2.6   | 4.0#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.45 min Scan# 2411  
 Delta R.T. -0.01 min  
 Lab File: BG038411.D  
 Acq: 7 Dec 2018 20:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 179030 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 7.9   | 7.2   | 10.8   |
| 80       | 8.8   | 7.7   | 11.5   |

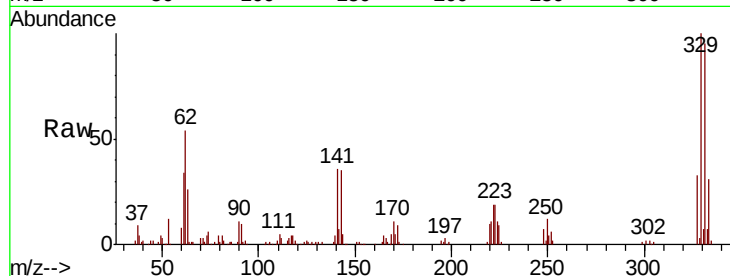




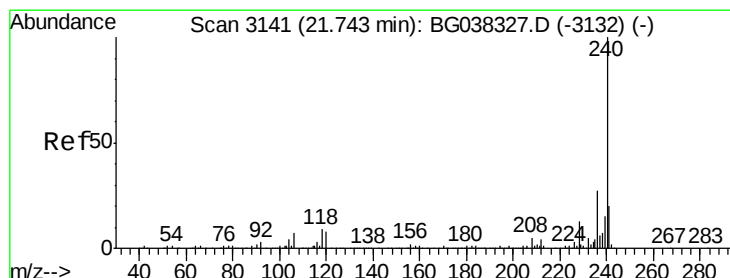
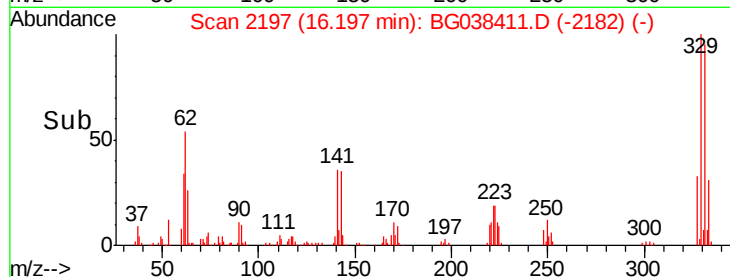
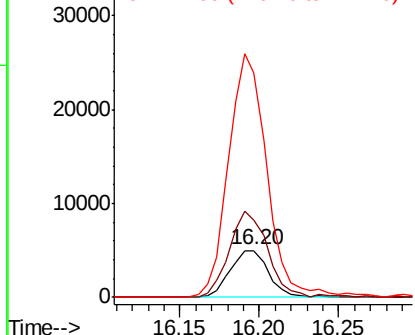
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.328 ng  
 RT: 16.20 min Scan# 2197  
 Delta R.T. -0.44 min  
 Lab File: BG038411.D  
 Acq: 7 Dec 2018 20:08

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-01-120518-B

Tgt Ion:248 Resp: 8368  
 Ion Ratio Lower Upper  
 248 100  
 250 222.9 77.0 115.6#  
 141 481.6 55.5 83.3#

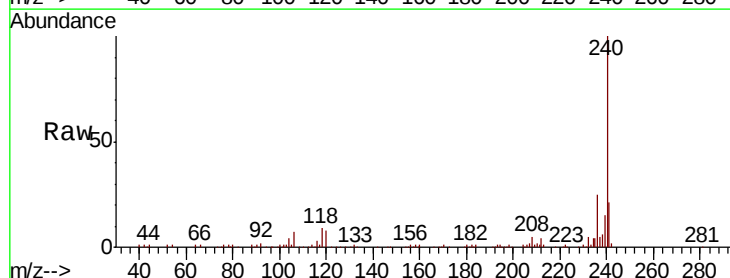


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

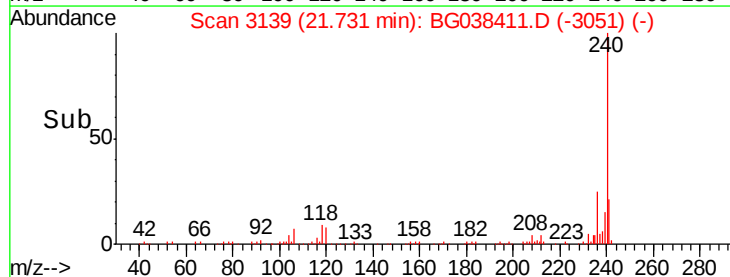
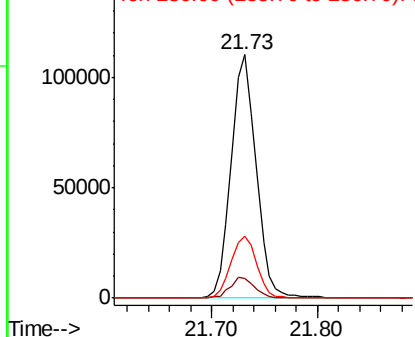


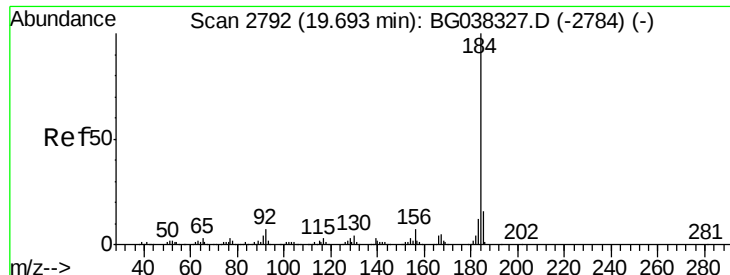
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.73 min Scan# 3139  
 Delta R.T. -0.01 min  
 Lab File: BG038411.D  
 Acq: 7 Dec 2018 20:08

Tgt Ion:240 Resp: 180340  
 Ion Ratio Lower Upper  
 240 100  
 120 8.0 8.1 12.1#  
 236 25.4 21.4 32.0



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

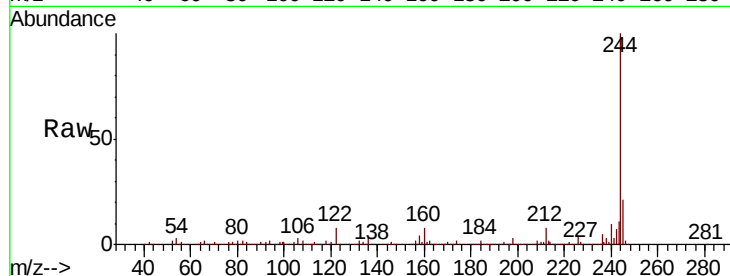




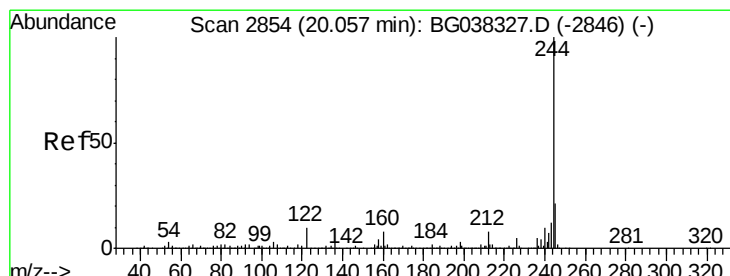
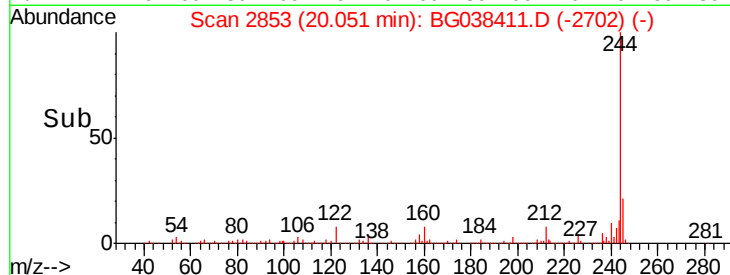
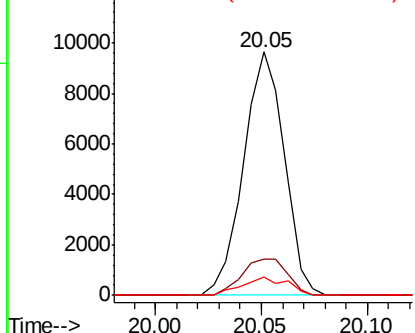
#77  
Benzidine  
Concen: 2.119 ng  
RT: 20.05 min Scan# 2853  
Delta R.T. 0.36 min  
Lab File: BG038411.D  
Acq: 7 Dec 2018 20:08

Instrument :  
BNA\_G  
ClientSampleId :  
OR-01-120518-B

Tgt Ion:184 Resp: 12898  
Ion Ratio Lower Upper  
184 100  
185 14.9 12.6 18.8  
183 7.5 10.2 15.2#

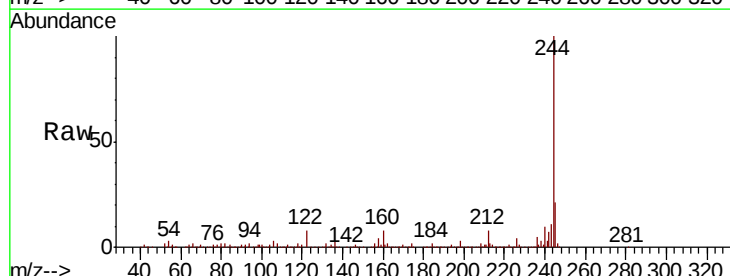


Abundance Ion 184.00 (183.70 to 184.70): E  
Ion 185.00 (184.70 to 185.70): E  
Ion 183.00 (182.70 to 183.70): E

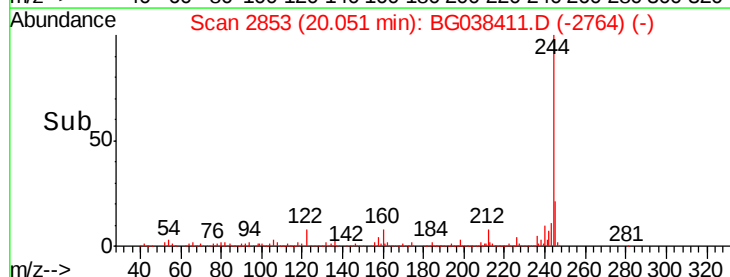
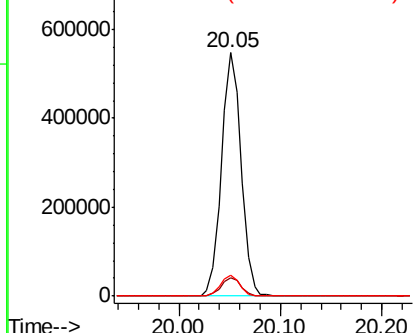


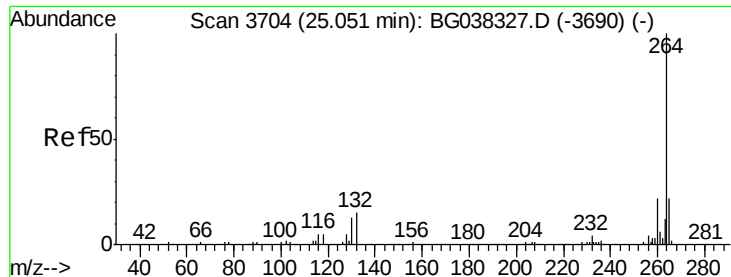
#79  
Terphenyl-d14  
Concen: 87.457 ng  
RT: 20.05 min Scan# 2853  
Delta R.T. -0.01 min  
Lab File: BG038411.D  
Acq: 7 Dec 2018 20:08

Tgt Ion:244 Resp: 736230  
Ion Ratio Lower Upper  
244 100  
212 7.6 6.5 9.7  
122 8.3 9.0 13.4#



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  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.03 min Scan# 3701  
Delta R.T. -0.02 min  
Lab File: BG038411.D  
Acq: 7 Dec 2018 20:08

Instrument :  
BNA\_G  
ClientSampleId :  
OR-01-120518-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 21.5  | 18.2  | 27.4  |
| 265     | 21.9  | 17.9  | 26.9  |

