

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG090319\  
 Data File : BG042686.D  
 Acq On : 3 Sep 2019 13:22  
 Operator : HP/JU  
 Sample : PB122722BL  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 04 04:04:30 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG082219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 22 14:29:15 2019  
 Response via : Initial Calibration

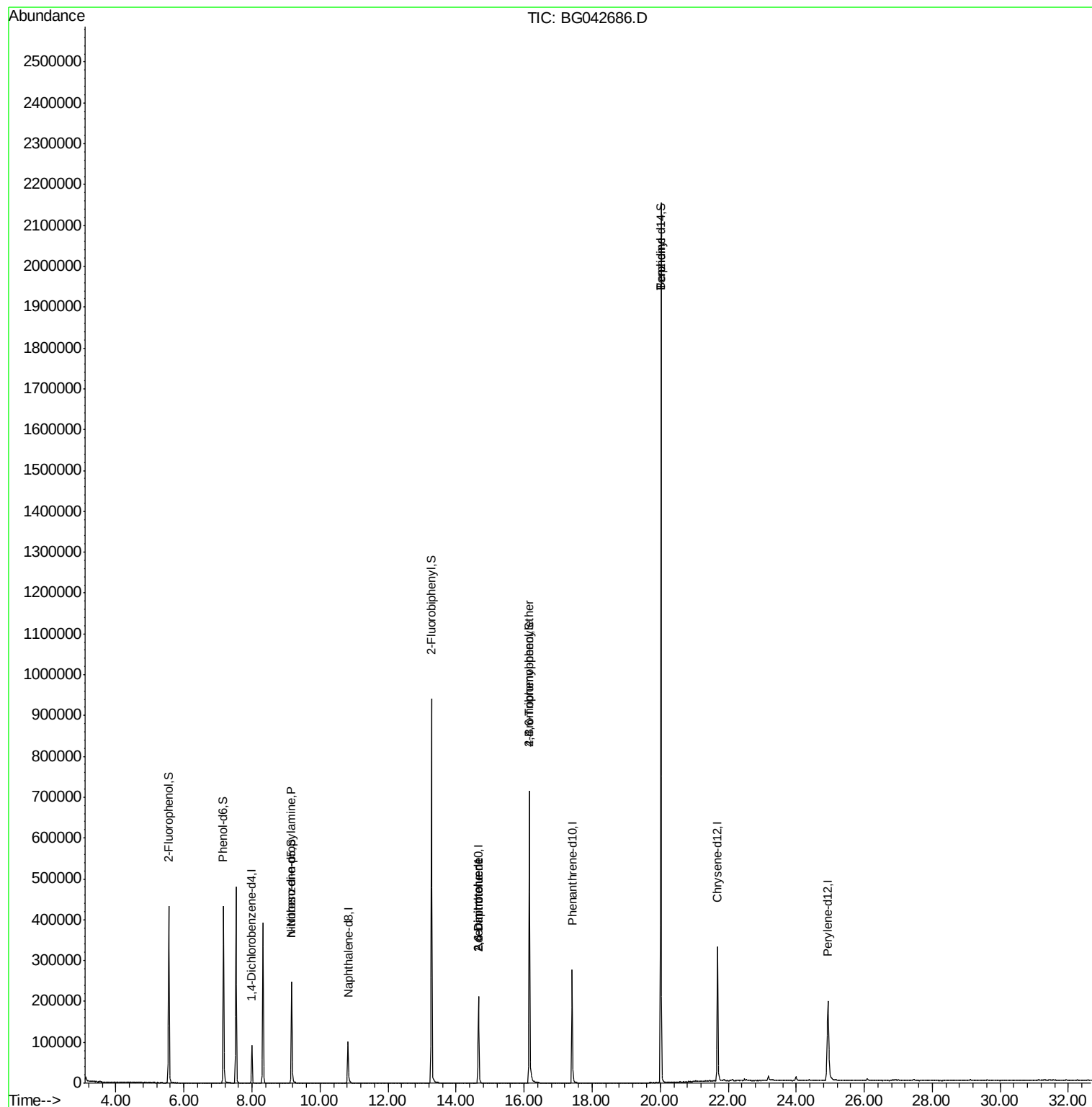
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.99  | 152  | 31628    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 10.82 | 136  | 121548   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.66 | 164  | 95583    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.41 | 188  | 224118   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 21.69 | 240  | 243628   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 24.93 | 264  | 286065   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.56  | 112  | 217675   | 139.39 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.16  | 99   | 285449   | 135.32 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 9.16  | 82   | 166737   | 94.80  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 16.15 | 330  | 212213   | 156.20 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 13.28 | 172  | 595577   | 105.38 | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.02 | 244  | 1168310  | 103.67 | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.16  | 70   | 21290    | 15.579 | ng    | # 75     |
| 51) 2,6-Dinitrotoluene         | 14.66 | 165  | 12203    | 7.634  | ng    | # 37     |
| 57) 2,4-Dinitrotoluene         | 14.66 | 165  | 12203    | 5.331  | ng    | # 40     |
| 67) 4-Bromophenyl-phenylether  | 16.16 | 248  | 13803    | 4.855  | ng    | # 1      |
| 77) Benzidine                  | 20.02 | 184  | 14102    | 2.019  | ng    | # 92     |

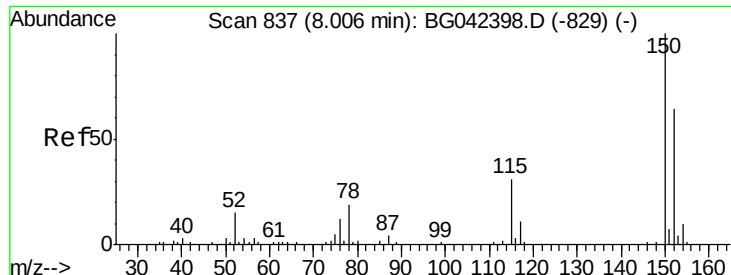
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 04 04:04:30 2019  
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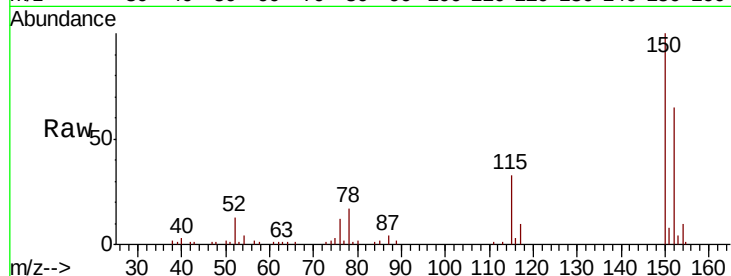


#1

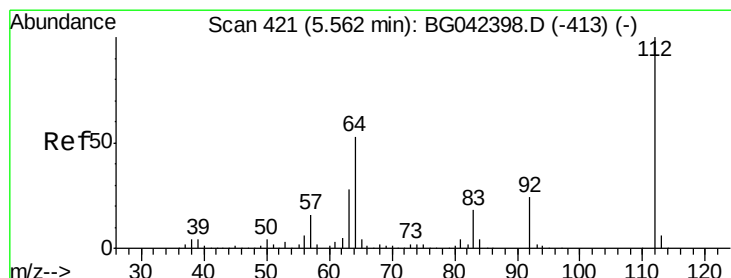
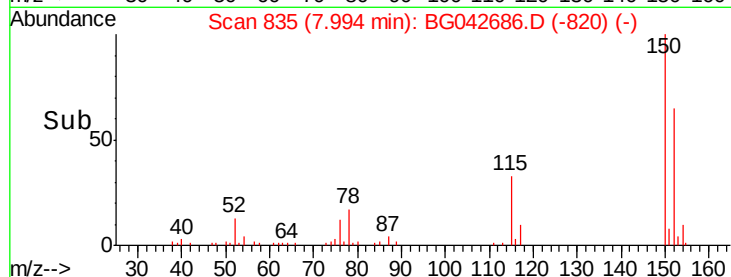
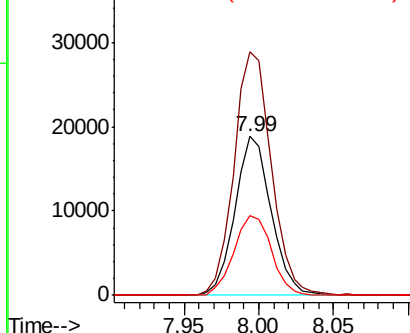
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.99 min Scan# 835  
Delta R.T. -0.01 min  
Lab File: BG042686.D  
Acq: 3 Sep 2019 13:22

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 31628  
Ion Ratio Lower Upper  
152 100  
150 153.3 125.4 188.0  
115 50.3 38.5 57.7



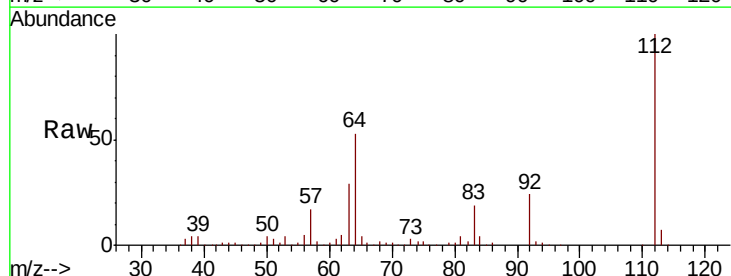
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



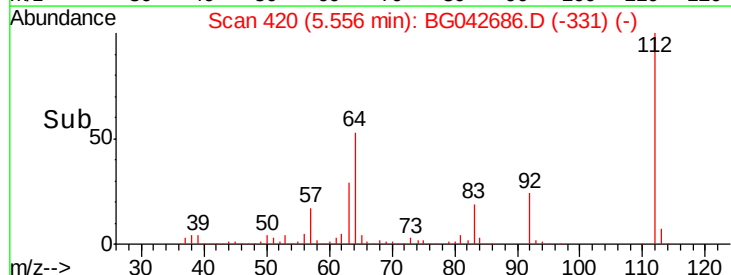
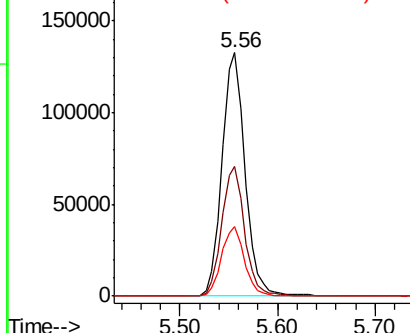
#5

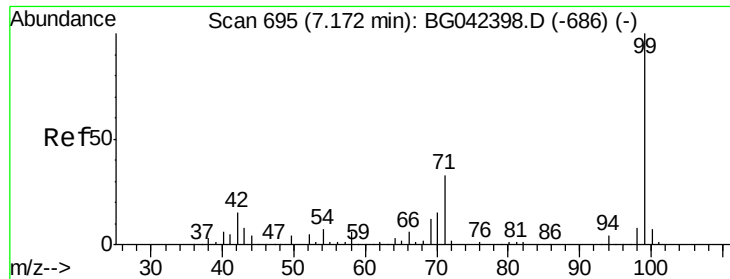
2-Fluorophenol  
Concen: 139.388 ng  
RT: 5.56 min Scan# 420  
Delta R.T. -0.01 min  
Lab File: BG042686.D  
Acq: 3 Sep 2019 13:22

Tgt Ion:112 Resp: 217675  
Ion Ratio Lower Upper  
112 100  
64 53.3 42.8 64.2  
63 28.7 22.7 34.1



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





#7

Phenol-d6

Concen: 135.320 ng

RT: 7.16 min Scan# 693

Delta R.T. -0.01 min

Lab File: BG042686.D

Acq: 3 Sep 2019 13:22

Instrument :

BNA\_G

ClientSampleId :

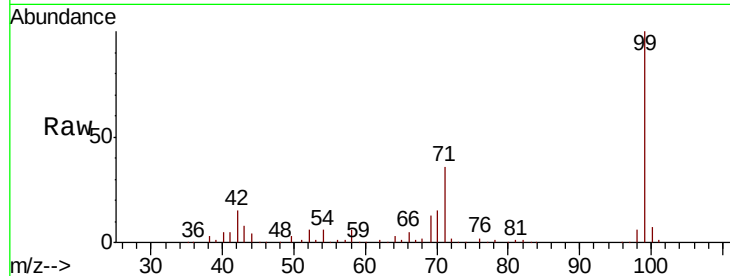
Tot Ion: 99 Resp: 285449

Ion Ratio Lower Upper

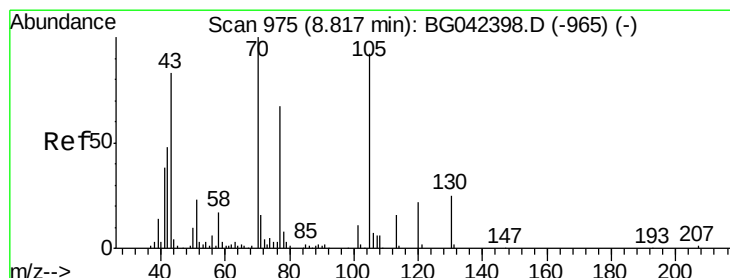
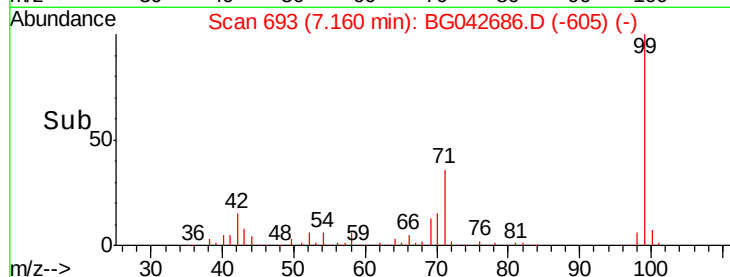
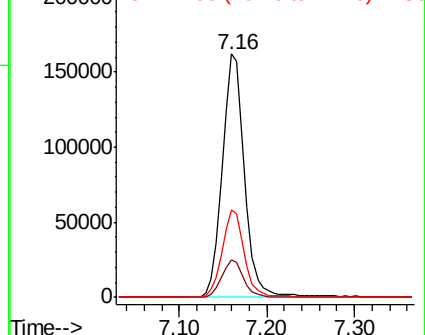
99 100

42 15.2 12.0 18.0

71 36.1 26.3 39.5



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: 15.579 ng

RT: 9.16 min Scan# 1034

Delta R.T. 0.35 min

Lab File: BG042686.D

Acq: 3 Sep 2019 13:22

Tgt Ion: 70 Resp: 21290

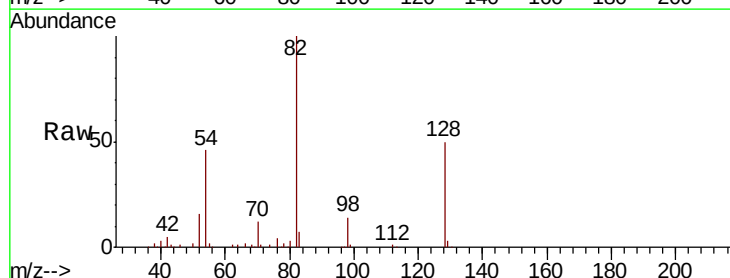
Ion Ratio Lower Upper

70 100

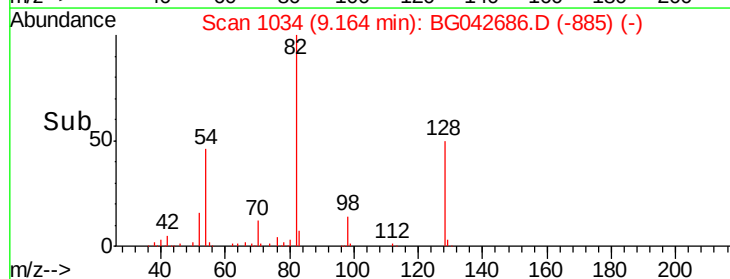
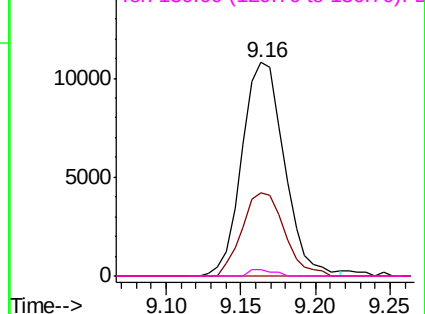
42 39.1 38.8 58.2

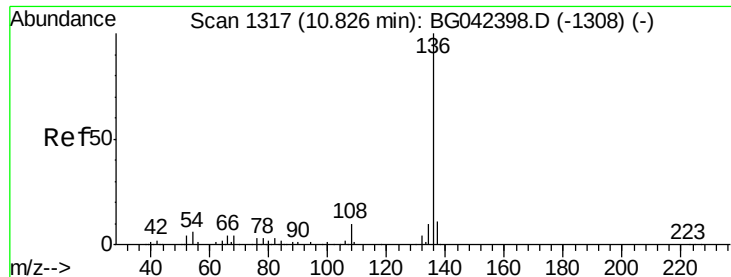
101 0.0 9.0 13.6#

130 3.2 20.0 30.0#



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: 10.82 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BG042686.D

Acq: 3 Sep 2019 13:22

Instrument :

BNA\_G

ClientSampleId :

Tot Ion:136 Resp: 121548

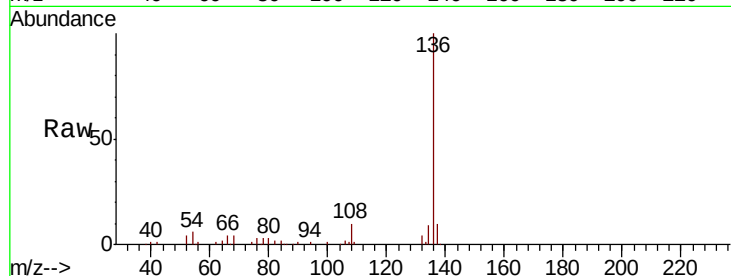
Ion Ratio Lower Upper

136 100

137 10.1 8.7 13.1

54 6.3 4.9 7.3

68 3.6 3.6 5.4

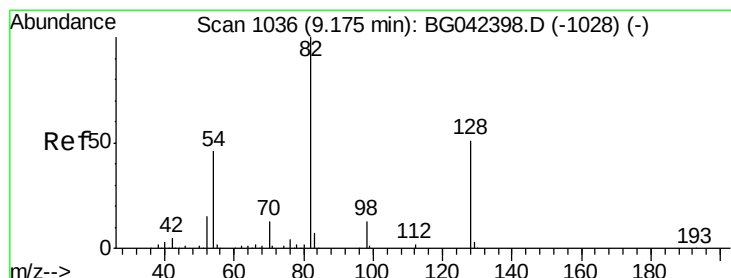
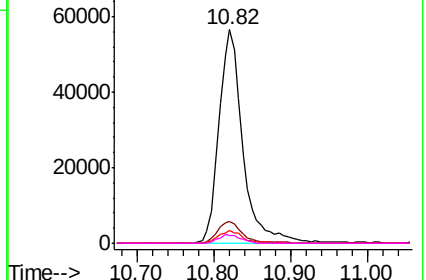
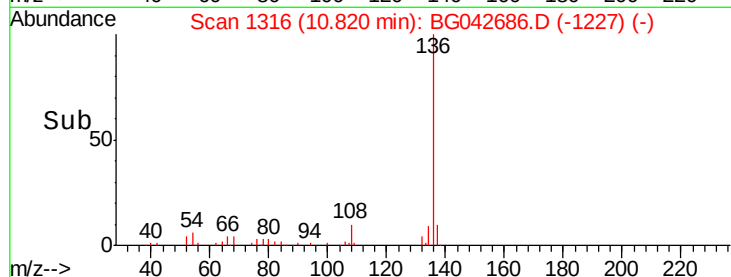


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BGC

Ion 68.00 (67.70 to 68.70): BGC



#23

Nitrobenzene-d5

Concen: 94.795 ng

RT: 9.16 min Scan# 1034

Delta R.T. -0.01 min

Lab File: BG042686.D

Acq: 3 Sep 2019 13:22

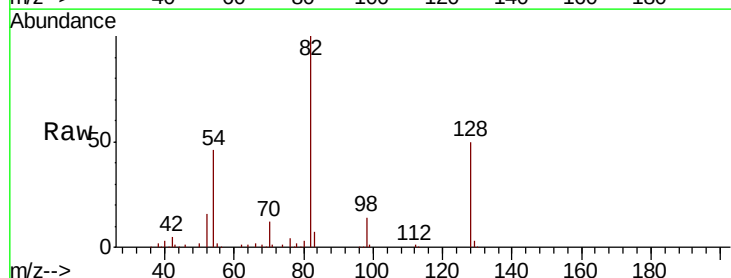
Tgt Ion: 82 Resp: 166737

Ion Ratio Lower Upper

82 100

128 50.2 40.7 61.1

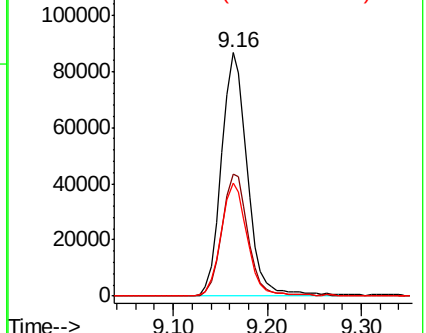
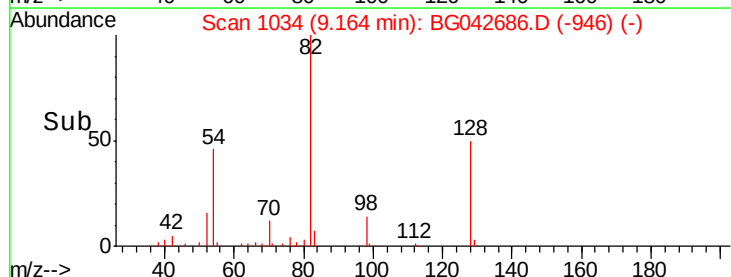
54 46.3 36.3 54.5

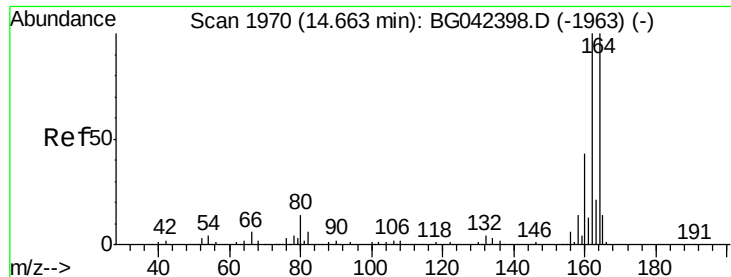


Abundance Ion 82.00 (81.70 to 82.70): BGC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BGC





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.66 min Scan# 1969

Delta R.T. -0.01 min

Lab File: BG042686.D

Acq: 3 Sep 2019 13:22

Instrument :

BNA\_G

ClientSampleId :

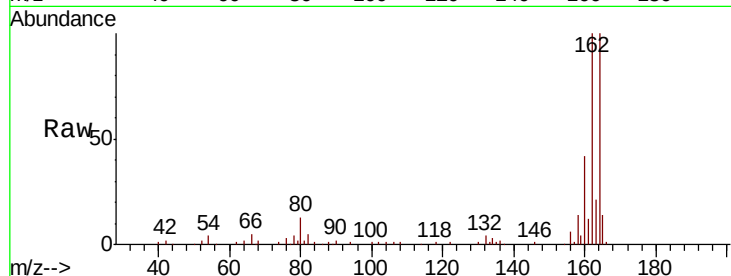
Tot Ion:164 Resp: 95583

Ion Ratio Lower Upper

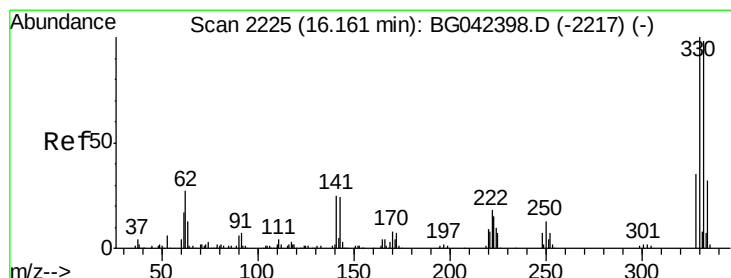
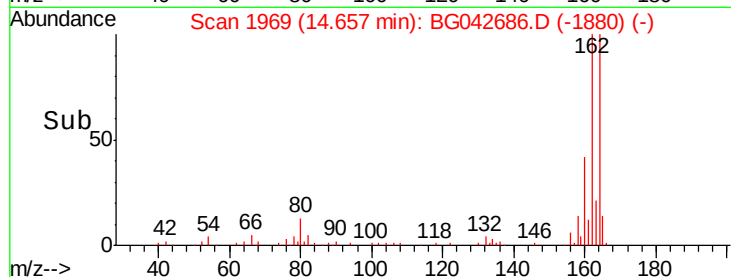
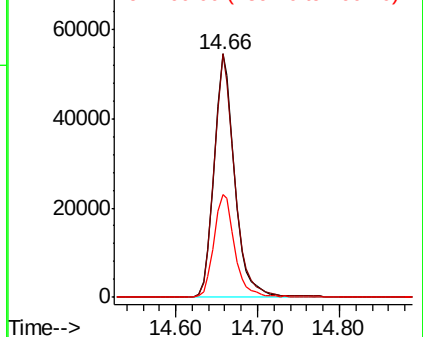
164 100

162 99.9 79.9 119.9

160 42.1 34.3 51.5



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: 156.205 ng

RT: 16.15 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BG042686.D

Acq: 3 Sep 2019 13:22

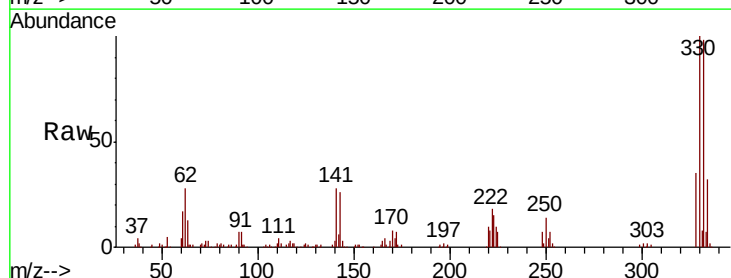
Tgt Ion:330 Resp: 212213

Ion Ratio Lower Upper

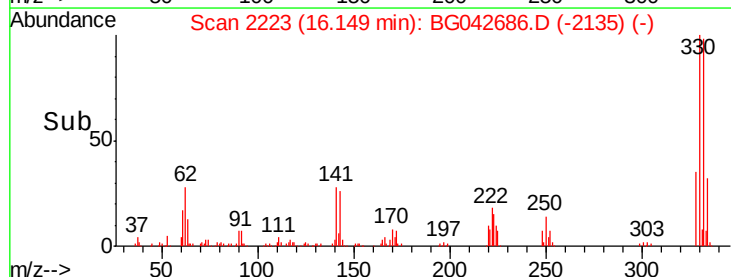
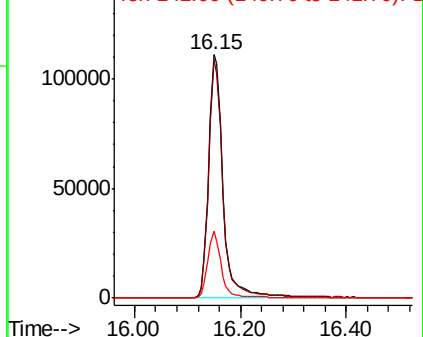
330 100

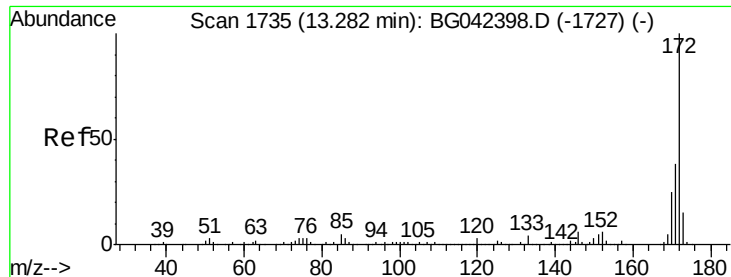
332 97.3 77.4 116.0

141 26.0 21.4 32.0



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

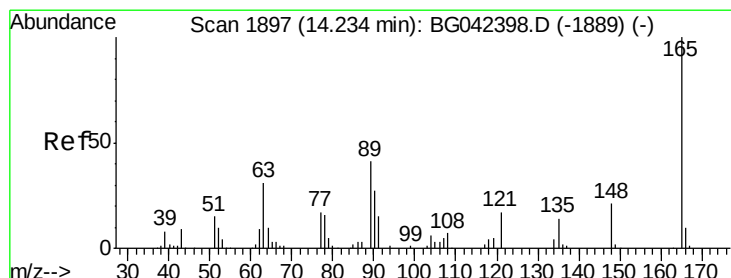
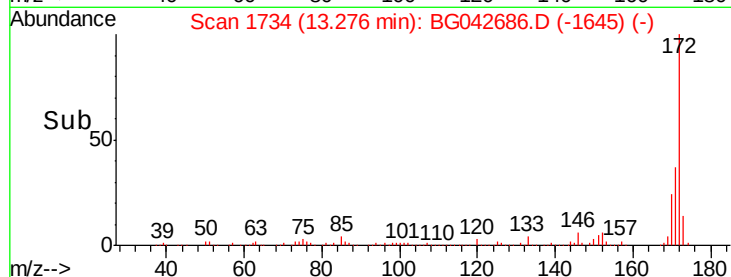
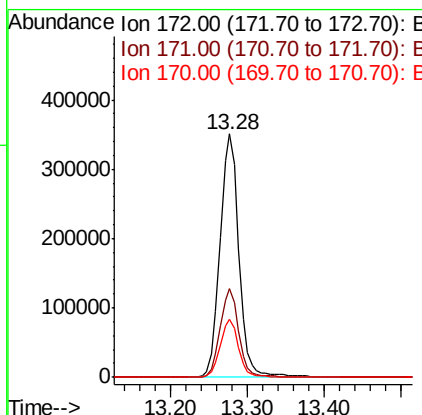
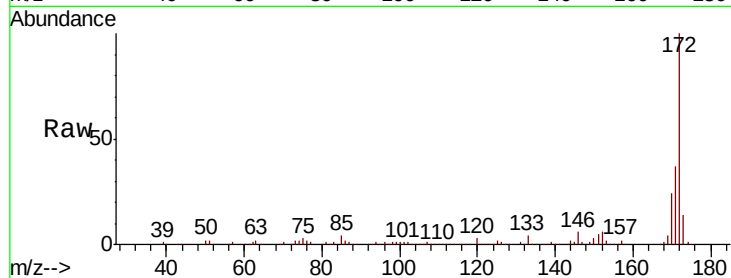




#45  
2-Fluorobiphenyl  
Concen: 105.384 ng  
RT: 13.28 min Scan# 1734  
Delta R.T. -0.01 min  
Lab File: BG042686.D  
Acq: 3 Sep 2019 13:22

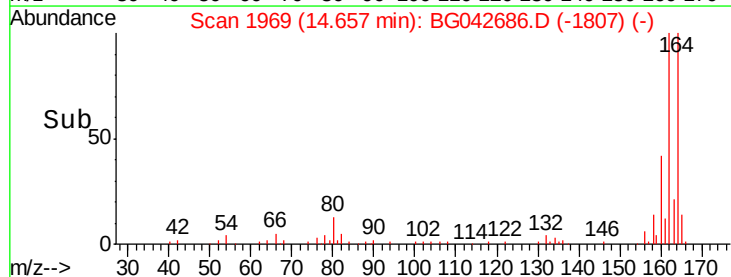
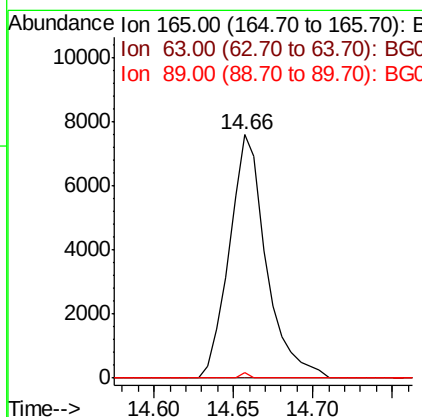
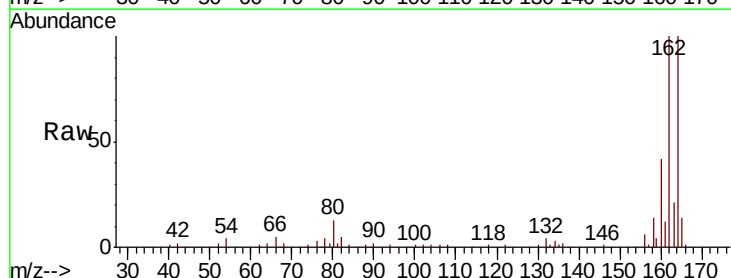
Instrument :  
BNA\_G  
ClientSampleId :

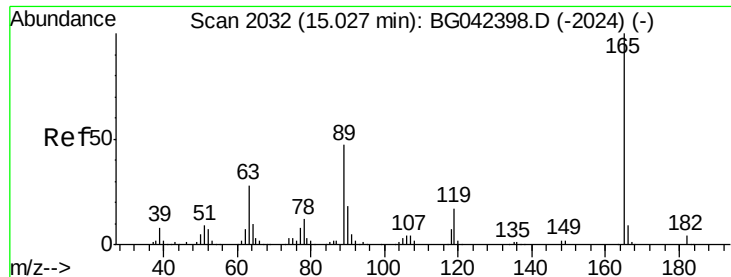
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.6  | 30.5  | 45.7  |
| 170     | 23.8  | 20.2  | 30.2  |



#51  
2,6-Dinitrotoluene  
Concen: 7.634 ng  
RT: 14.66 min Scan# 1969  
Delta R.T. 0.42 min  
Lab File: BG042686.D  
Acq: 3 Sep 2019 13:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 30.6  | 45.8# |
| 89      | 2.1   | 32.6  | 49.0# |

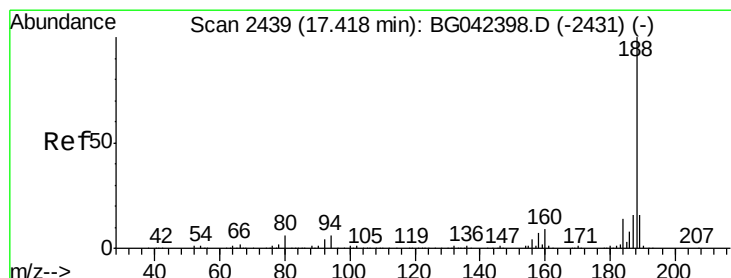
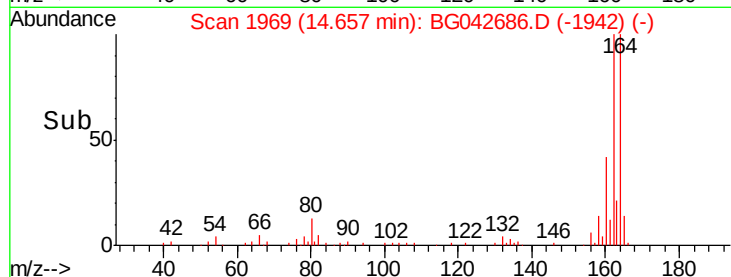
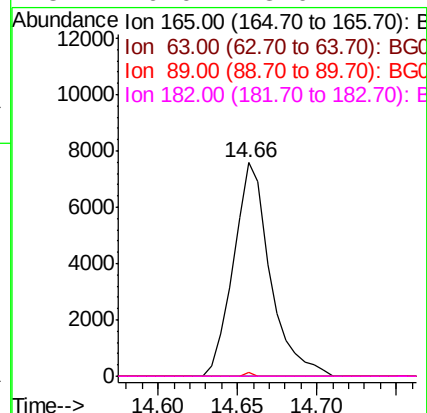
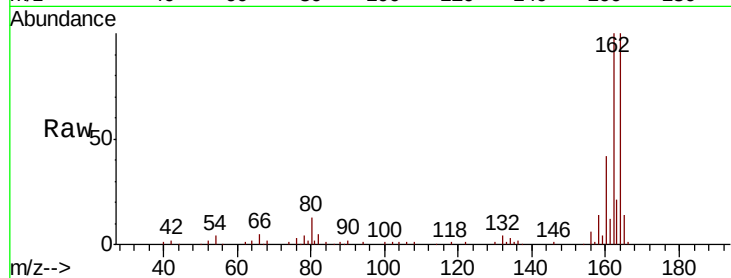




#57  
 2,4-Dinitrotoluene  
 Concen: 5.331 ng  
 RT: 14.66 min Scan# 1969  
 Delta R.T. -0.37 min  
 Lab File: BG042686.D  
 Acq: 3 Sep 2019 13:22

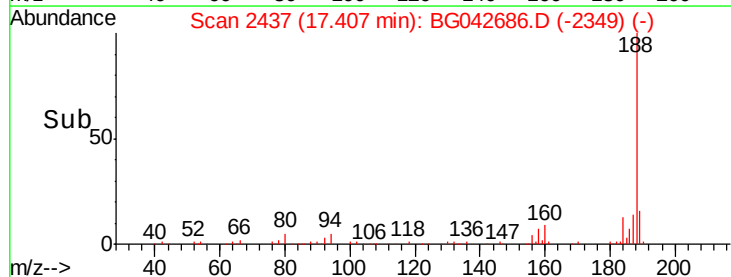
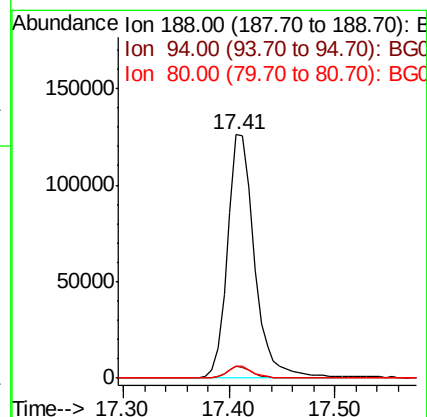
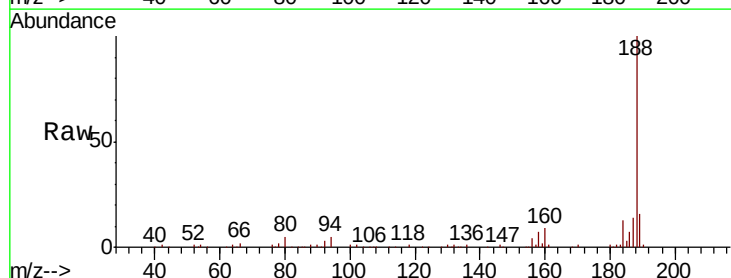
Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion:165 | Resp: | 12203       |
|-------------|-------|-------------|
| Ion         | Ratio | Lower Upper |
| 165         | 100   |             |
| 63          | 0.0   | 22.5 33.7#  |
| 89          | 2.1   | 37.8 56.6#  |
| 182         | 0.0   | 3.0 4.4#    |

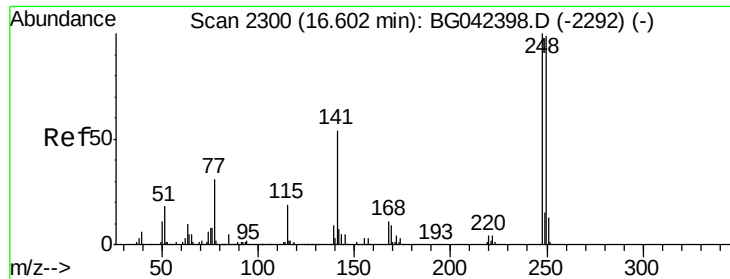


#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.41 min Scan# 2437  
 Delta R.T. -0.01 min  
 Lab File: BG042686.D  
 Acq: 3 Sep 2019 13:22

| Tgt Ion:188 | Resp: | 224118      |
|-------------|-------|-------------|
| Ion         | Ratio | Lower Upper |
| 188         | 100   |             |
| 94          | 5.0   | 4.5 6.7     |
| 80          | 5.0   | 4.9 7.3     |



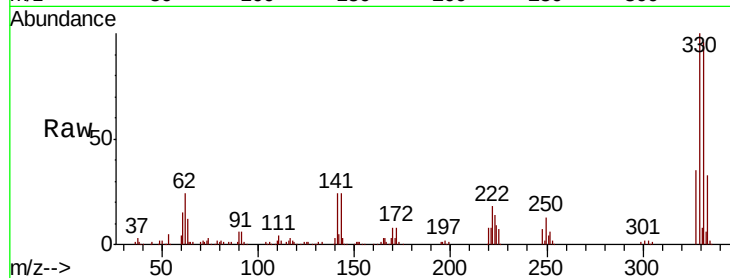




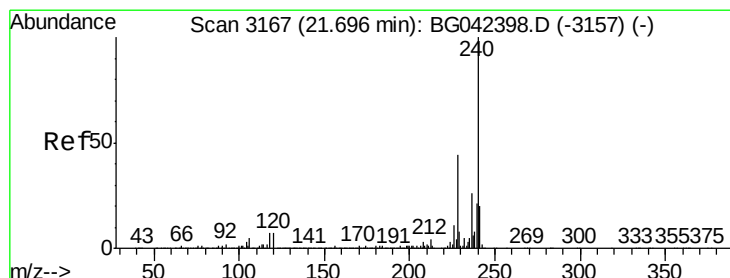
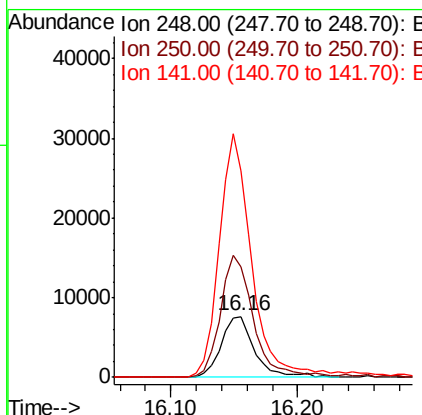
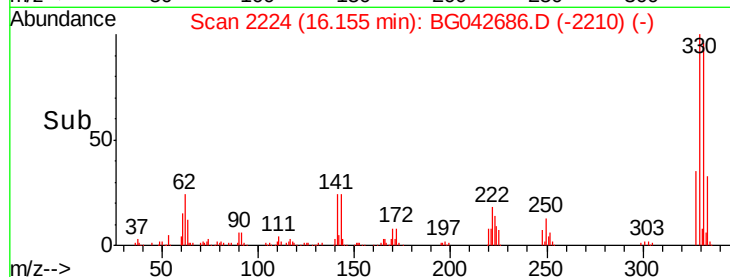
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.855 ng  
 RT: 16.16 min Scan# 2224  
 Delta R.T. -0.45 min  
 Lab File: BG042686.D  
 Acq: 3 Sep 2019 13:22

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 13803  
 Ion Ratio Lower Upper  
 248 100  
 250 182.0 78.9 118.3#  
 141 339.6 43.3 64.9#

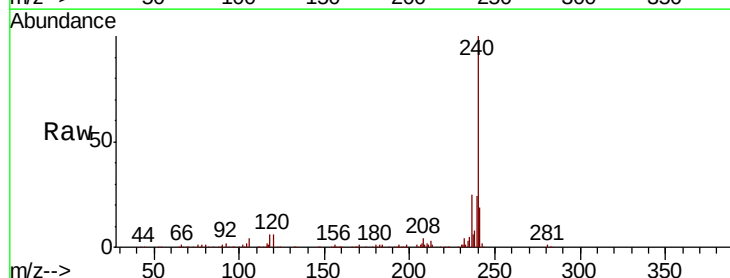


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

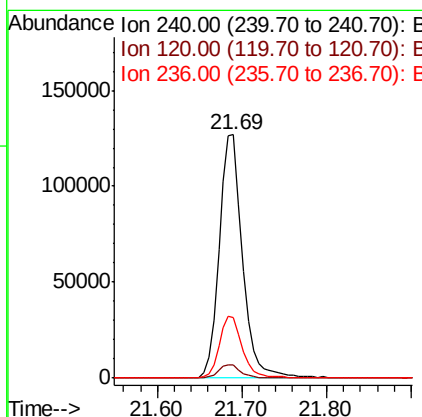
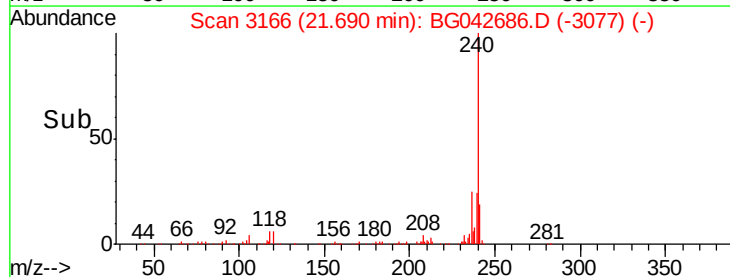


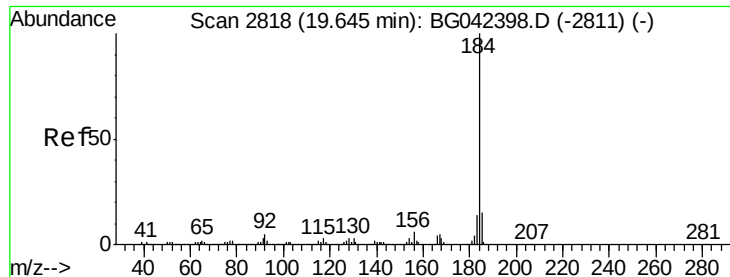
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.69 min Scan# 3166  
 Delta R.T. -0.01 min  
 Lab File: BG042686.D  
 Acq: 3 Sep 2019 13:22

Tgt Ion:240 Resp: 243628  
 Ion Ratio Lower Upper  
 240 100  
 120 5.6 5.7 8.5#  
 236 24.9 21.0 31.4



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: 2.019 ng

RT: 20.02 min Scan# 2882

Delta R.T. 0.38 min

Lab File: BG042686.D

Acq: 3 Sep 2019 13:22

Instrument :

BNA\_G

ClientSampleId :

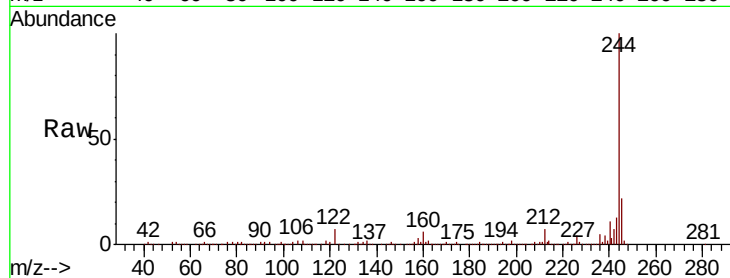
Tot Ion:184 Resp: 14102

Ion Ratio Lower Upper

184 100

185 19.6 12.2 18.4#

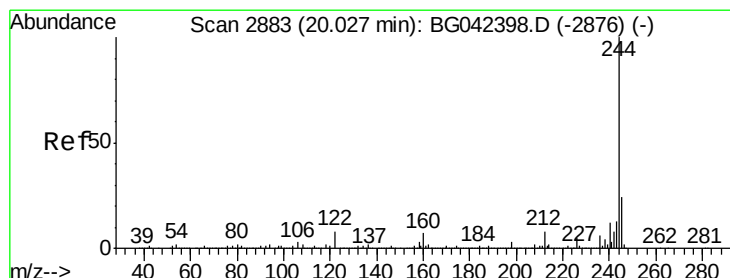
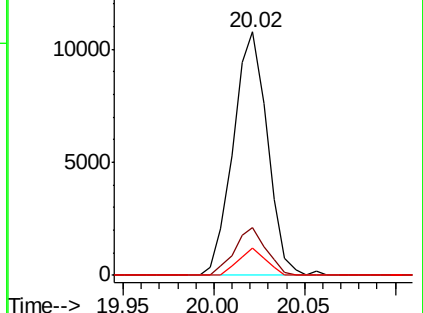
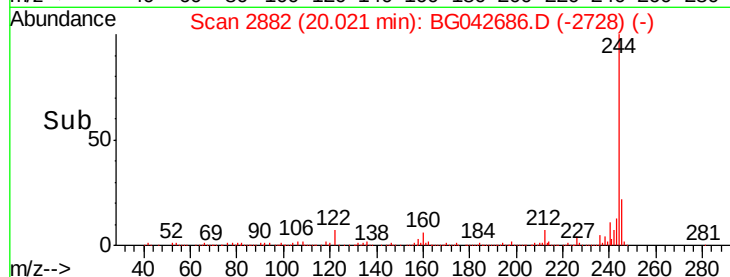
183 11.3 10.8 16.2



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: 103.674 ng

RT: 20.02 min Scan# 2882

Delta R.T. -0.01 min

Lab File: BG042686.D

Acq: 3 Sep 2019 13:22

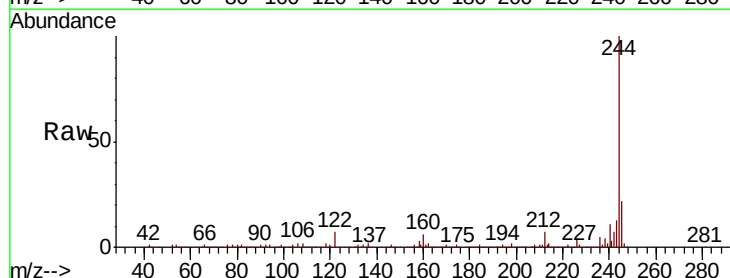
Tgt Ion:244 Resp: 1168310

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

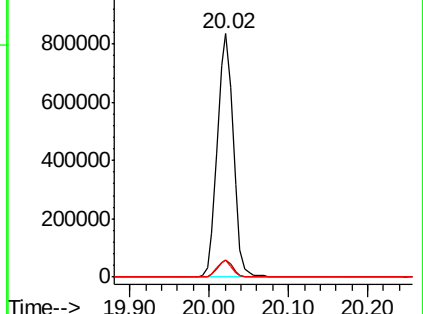
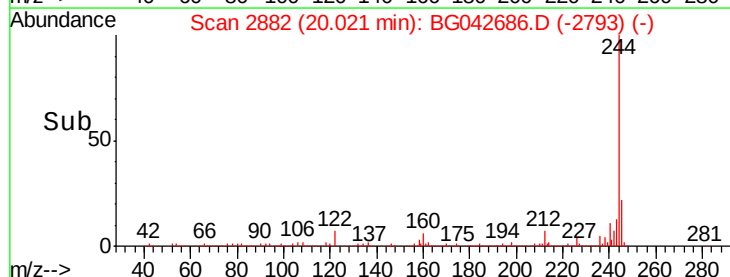
122 7.0 6.7 10.1

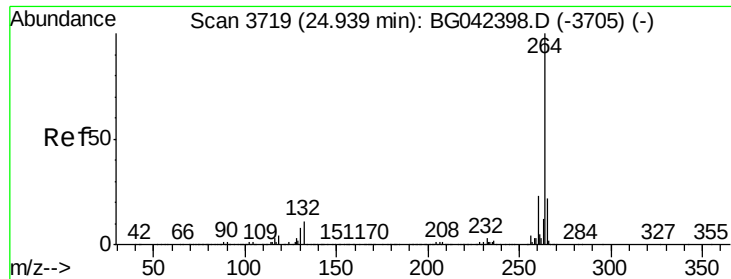


Abundance Ion 244.00 (243.70 to 244.70): E

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: 24.93 min Scan# 3718  
 Delta R.T. -0.01 min  
 Lab File: BG042686.D  
 Acq: 3 Sep 2019 13:22

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 21.4  | 18.5  | 27.7  |
| 265     | 22.3  | 17.6  | 26.4  |

