

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG061919\  
 Data File : BG041323.D  
 Acq On : 19 Jun 2019 11:53  
 Operator : HP/JU  
 Sample : PB120669BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jun 19 13:47:27 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

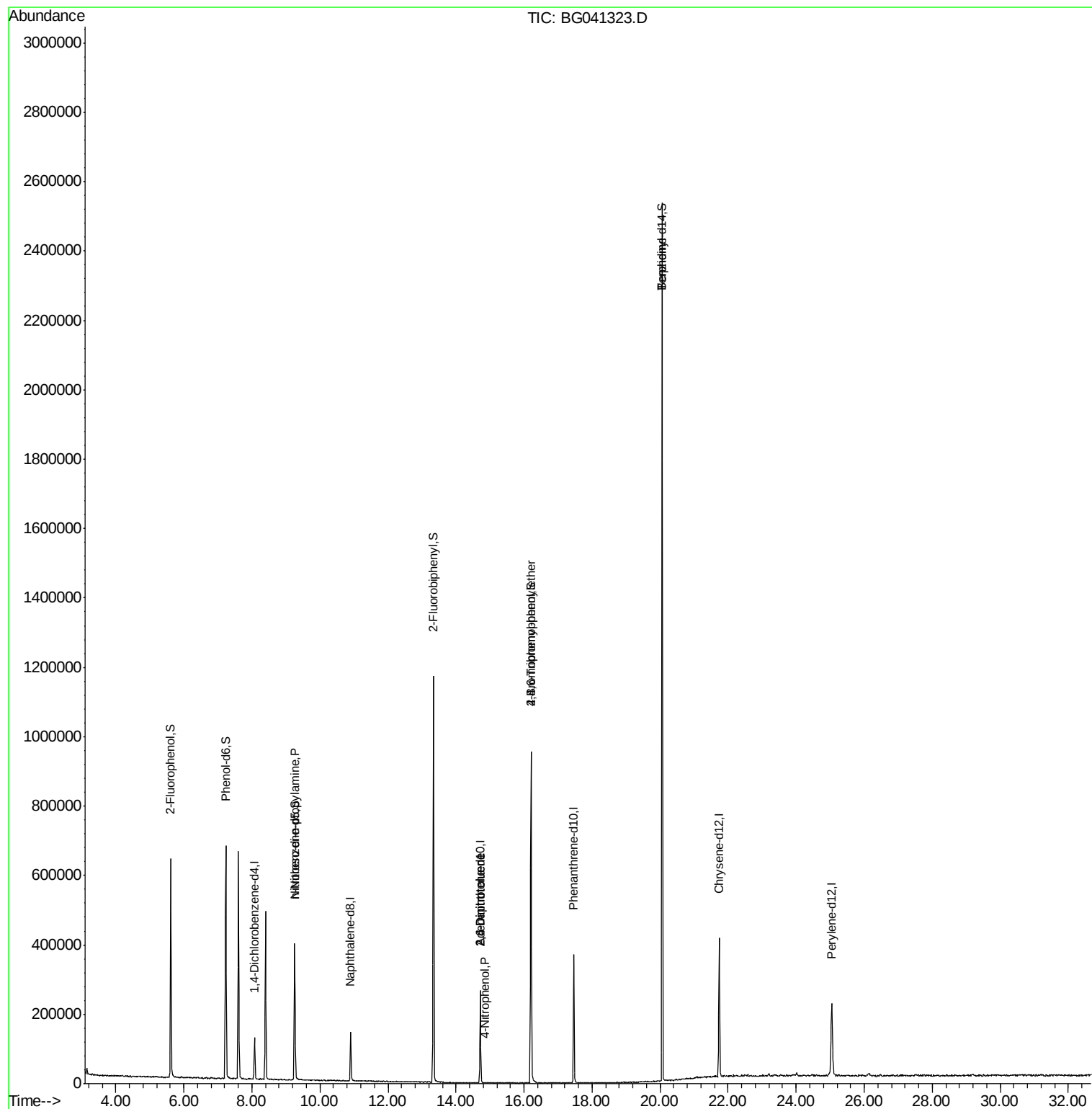
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.08  | 152  | 30928    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.90 | 136  | 123074   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 14.71 | 164  | 94778    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 17.46 | 188  | 244127   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 21.73 | 240  | 252650   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 25.05 | 264  | 265972   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.62  | 112  | 238391   | 141.63 | ng    | 0.00     |
| 7) Phenol-d6                   | 7.23  | 99   | 346026   | 141.82 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 9.25  | 82   | 245638   | 83.94  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 16.20 | 330  | 192745   | 132.47 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 13.34 | 172  | 592395   | 84.95  | ng    | 0.00     |
| 79) Terphenyl-d14              | 20.06 | 244  | 1160217  | 91.01  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 9.25  | 70   | 37133    | 18.817 | ng    | # 75     |
| 51) 2,6-Dinitrotoluene         | 14.71 | 165  | 11868    | 6.674  | ng    | # 16     |
| 56) 4-Nitrophenol              | 14.84 | 139  | 87       | 3.278  | ng    | # 1      |
| 57) 2,4-Dinitrotoluene         | 14.71 | 165  | 11868    | 4.566  | ng    | # 20     |
| 67) 4-Bromophenyl-phenylether  | 16.20 | 248  | 13220    | 4.188  | ng    | # 1      |
| 77) Benzidine                  | 20.06 | 184  | 19502    | 3.191  | ng    | # 94     |

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

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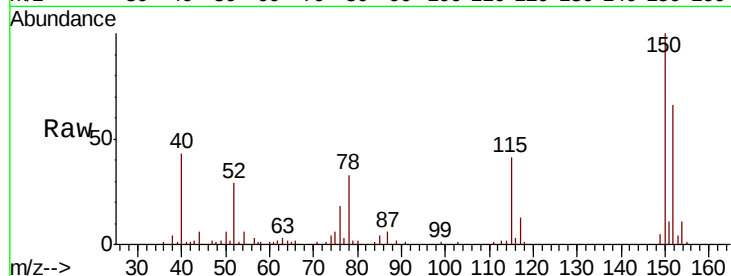


#1

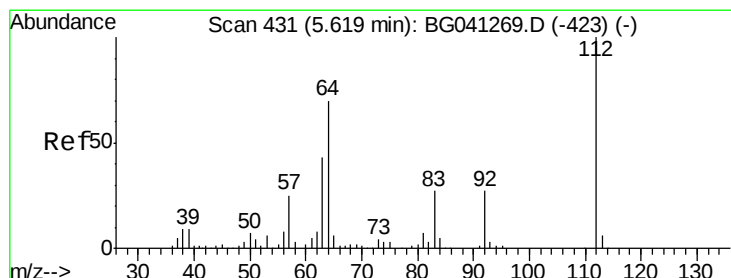
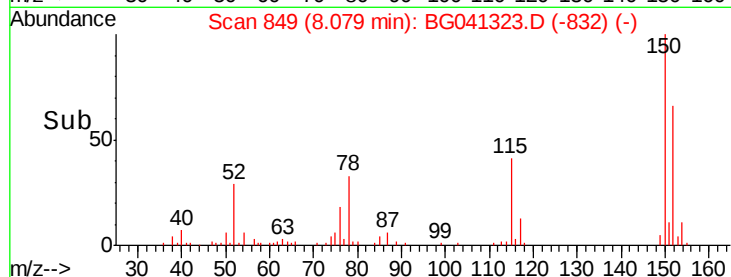
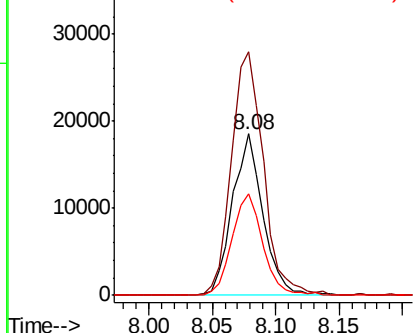
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.08 min Scan# 849  
Delta R.T. -0.00 min  
Lab File: BG041323.D  
Acq: 19 Jun 2019 11:53

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 30928  
Ion Ratio Lower Upper  
152 100  
150 151.1 120.6 181.0  
115 62.6 47.9 71.9



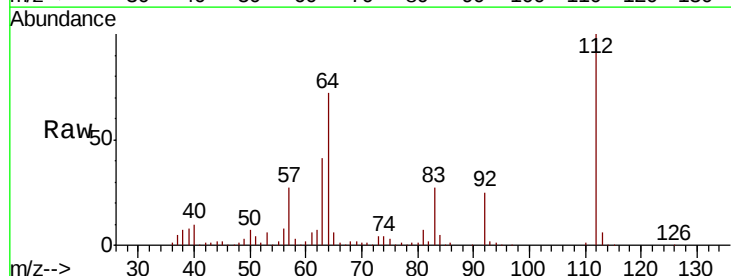
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



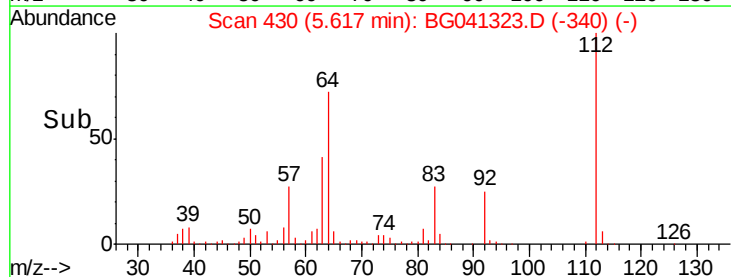
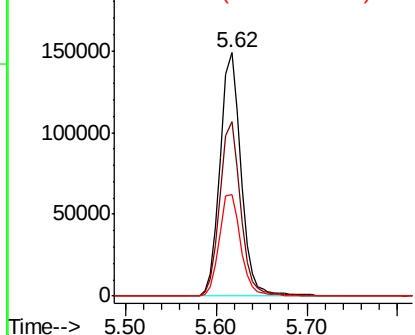
#5

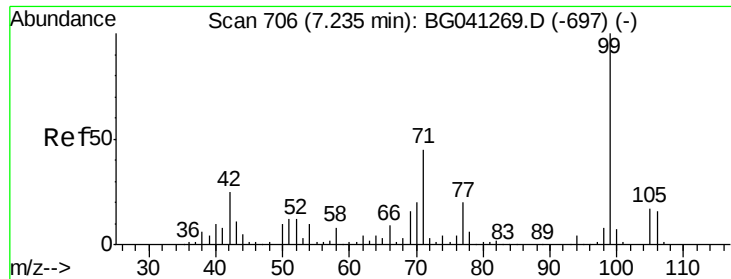
2-Fluorophenol  
Concen: 141.627 ng  
RT: 5.62 min Scan# 430  
Delta R.T. -0.00 min  
Lab File: BG041323.D  
Acq: 19 Jun 2019 11:53

Tgt Ion:112 Resp: 238391  
Ion Ratio Lower Upper  
112 100  
64 71.9 55.9 83.9  
63 41.5 34.6 51.8



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: 141.822 ng

RT: 7.23 min Scan# 705

Delta R.T. -0.00 min

Lab File: BG041323.D

Acq: 19 Jun 2019 11:53

Instrument :

BNA\_G

ClientSampleId :

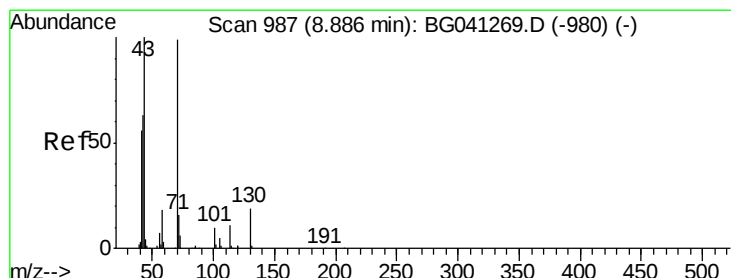
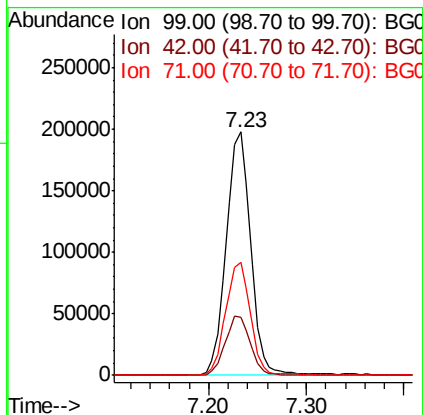
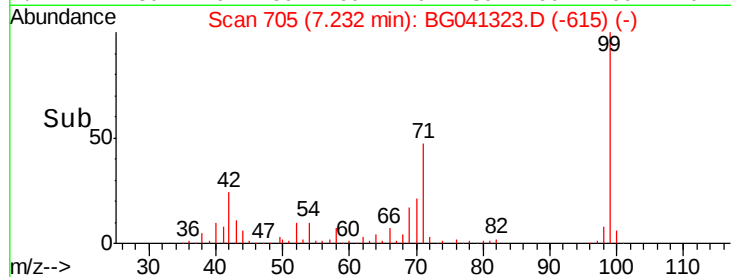
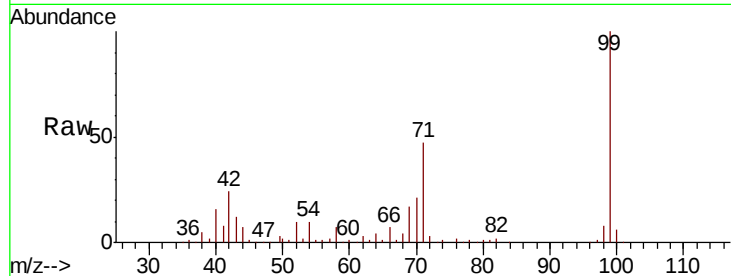
Tot Ion: 99 Resp: 346026

Ion Ratio Lower Upper

99 100

42 24.0 19.9 29.9

71 46.6 36.4 54.6



#19

n-Nitroso-di-n-propylamine

Concen: 18.817 ng

RT: 9.25 min Scan# 1049

Delta R.T. 0.37 min

Lab File: BG041323.D

Acq: 19 Jun 2019 11:53

Tgt Ion: 70 Resp: 37133

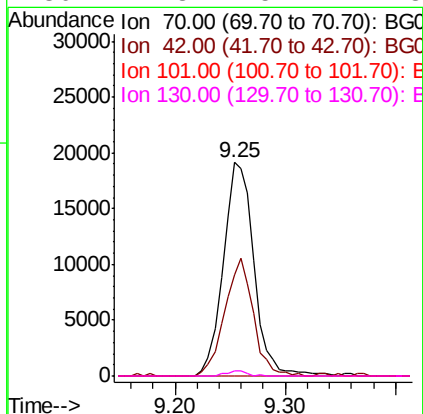
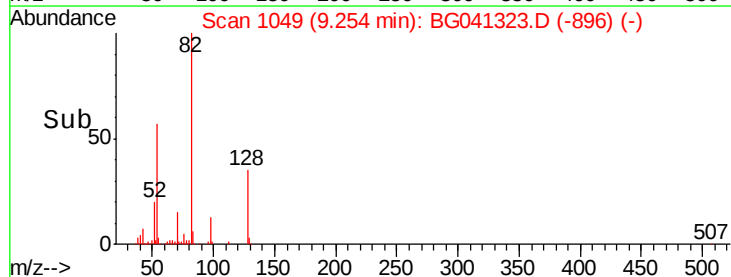
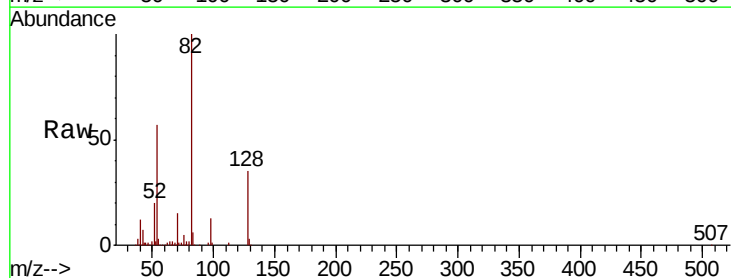
Ion Ratio Lower Upper

70 100

42 47.2 51.4 77.2#

101 0.0 8.2 12.2#

130 2.3 15.2 22.8#

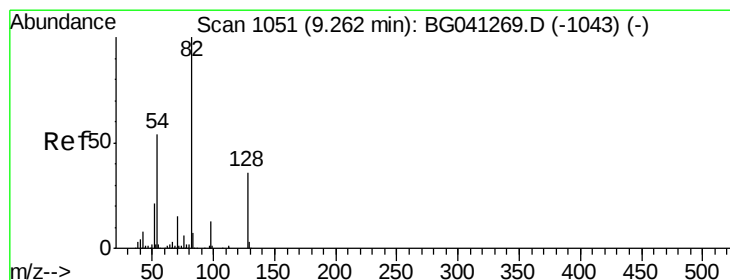
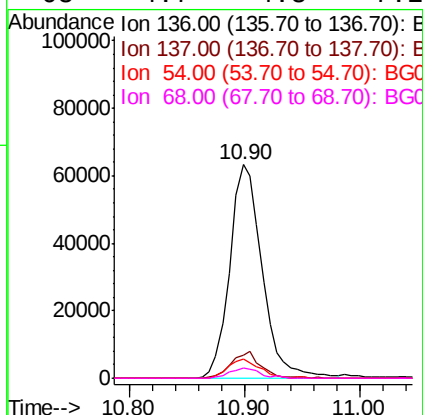
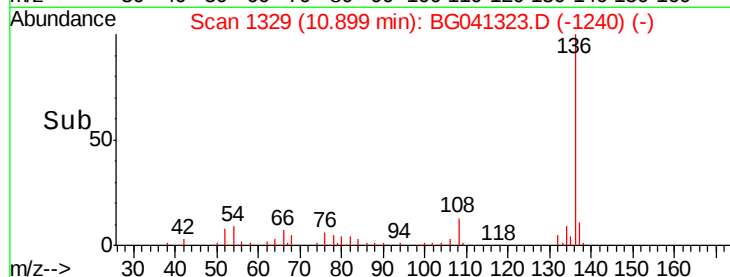
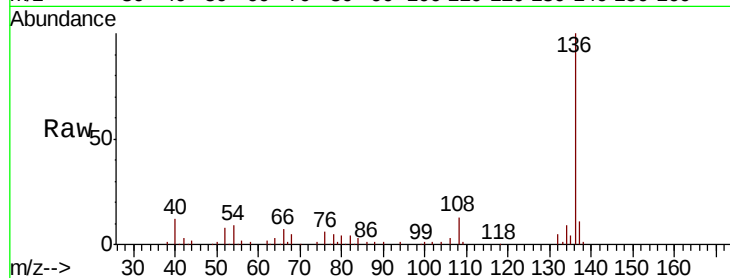




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.90 min Scan# 1329  
Delta R.T. -0.01 min  
Lab File: BG041323.D  
Acq: 19 Jun 2019 11:53

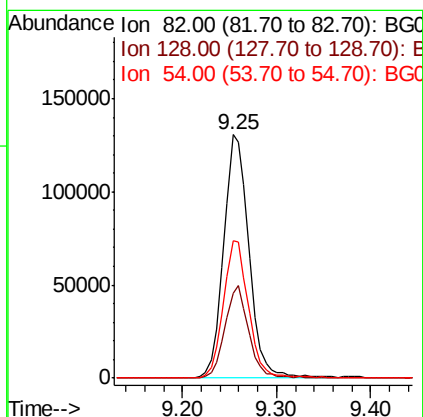
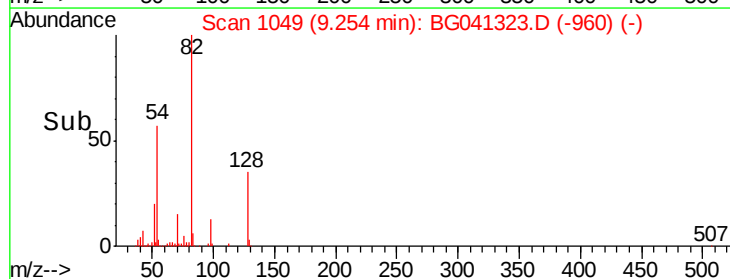
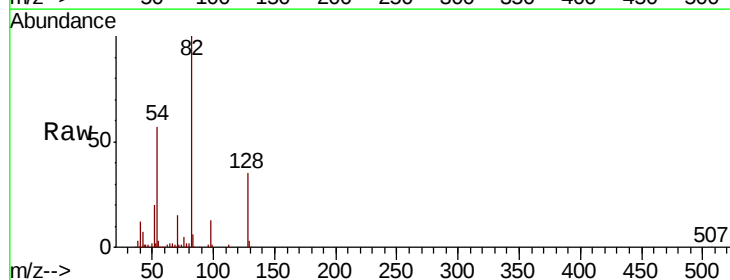
Instrument :  
BNA\_G  
ClientSampled :

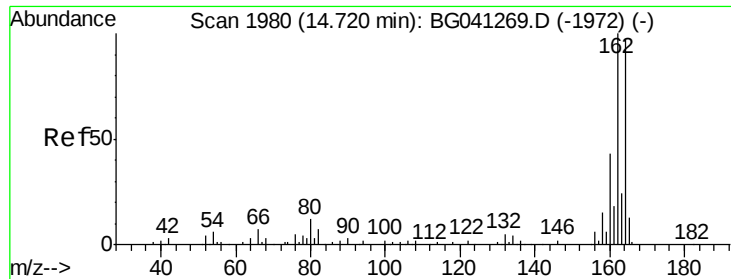
|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 123074   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 10.7  | 8.8 13.2 |
| 54          | 9.2   | 6.4 9.6  |
| 68          | 4.7   | 4.8 7.2# |



#23  
Nitrobenzene-d5  
Concen: 83.938 ng  
RT: 9.25 min Scan# 1049  
Delta R.T. -0.01 min  
Lab File: BG041323.D  
Acq: 19 Jun 2019 11:53

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 245638    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 34.7  | 29.2 43.8 |
| 54          | 56.6  | 43.4 65.0 |

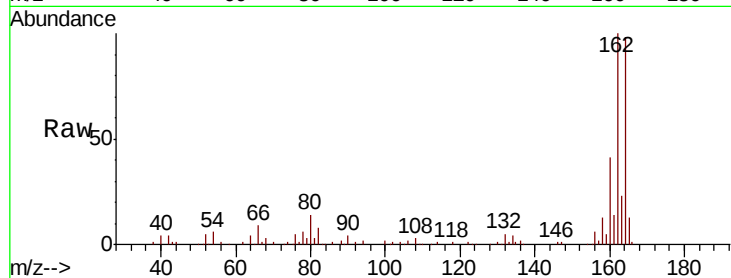




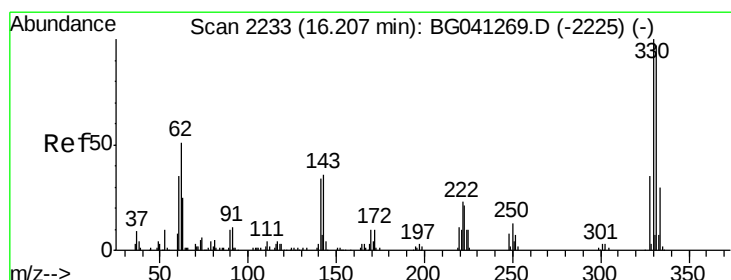
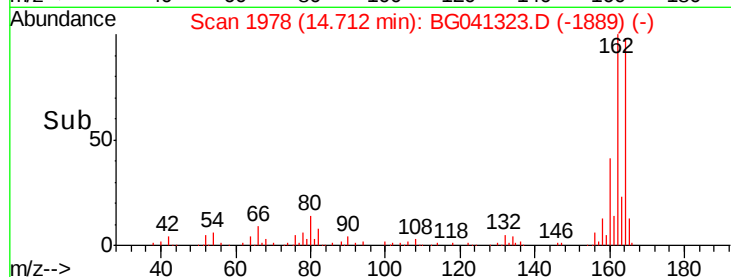
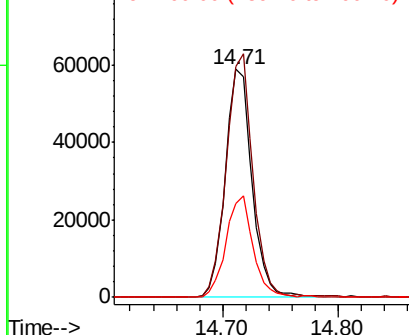
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.71 min Scan# 1978  
Delta R.T. -0.01 min  
Lab File: BG041323.D  
Acq: 19 Jun 2019 11:53

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:164 Resp: 94778  
Ion Ratio Lower Upper  
164 100  
162 101.5 82.8 124.2  
160 41.4 35.8 53.8

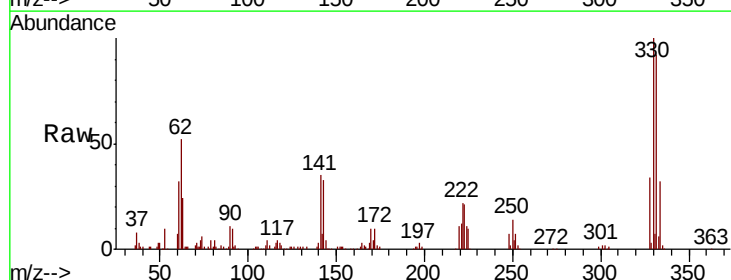


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

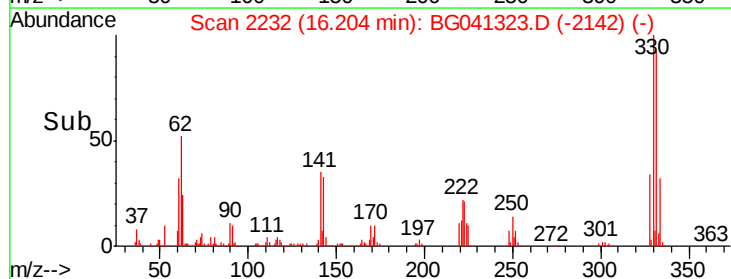
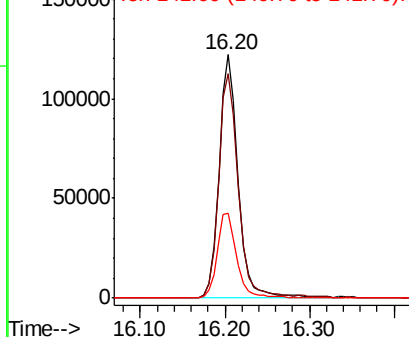


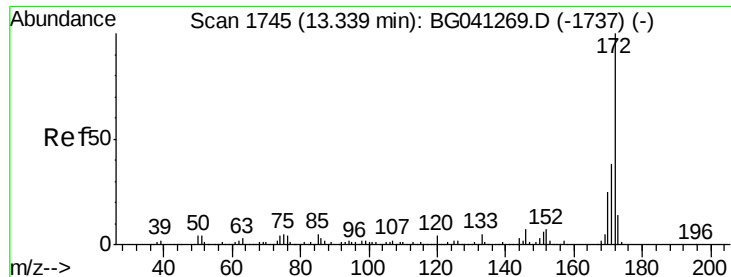
#42  
2,4,6-Tribromophenol  
Concen: 132.466 ng  
RT: 16.20 min Scan# 2232  
Delta R.T. -0.00 min  
Lab File: BG041323.D  
Acq: 19 Jun 2019 11:53

Tgt Ion:330 Resp: 192745  
Ion Ratio Lower Upper  
330 100  
332 95.8 75.5 113.3  
141 36.4 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

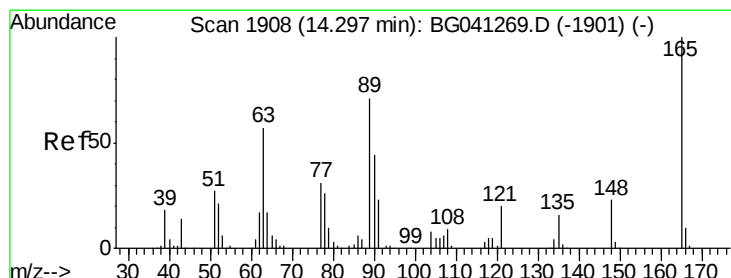
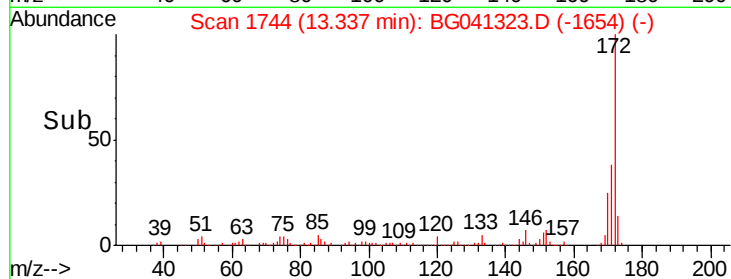
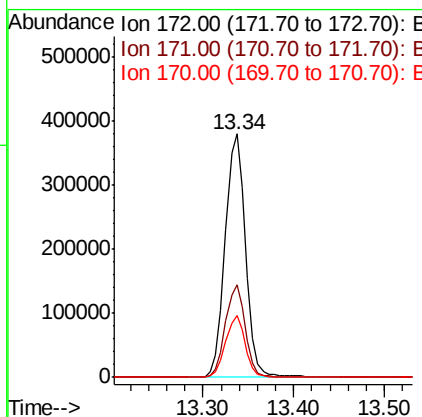
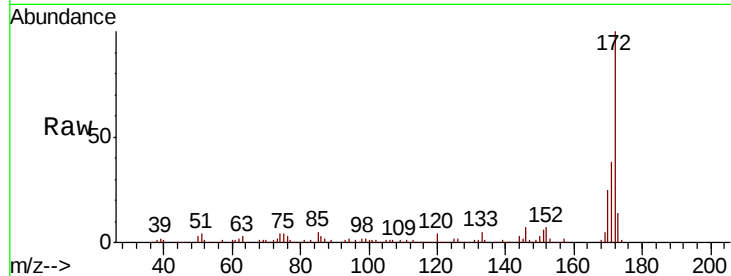




#45  
 2-Fluorobiphenyl  
 Concen: 84.952 ng  
 RT: 13.34 min Scan# 1744  
 Delta R.T. -0.00 min  
 Lab File: BG041323.D  
 Acq: 19 Jun 2019 11:53

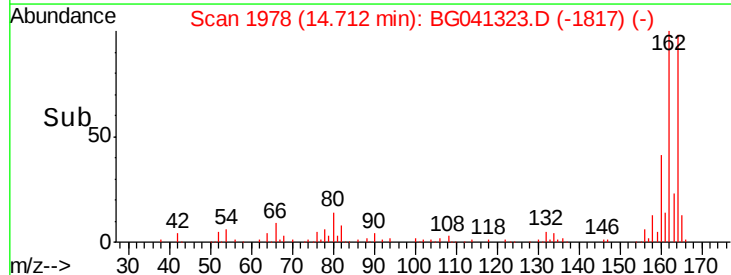
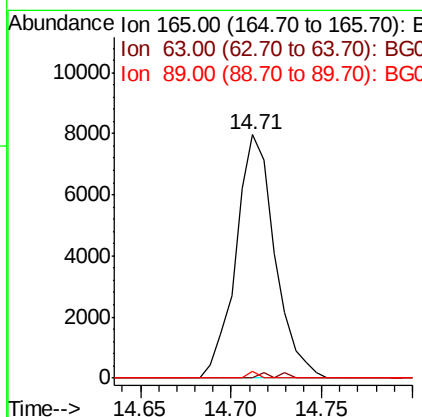
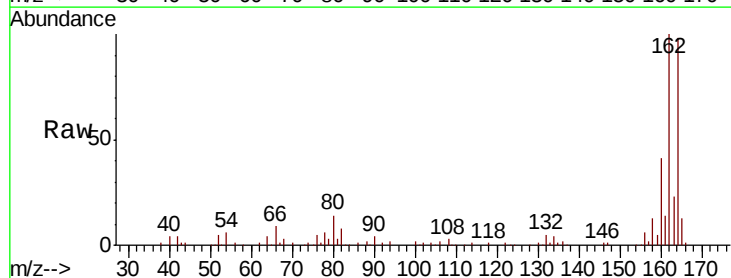
Instrument :  
 BNA\_G  
 ClientSampleId :

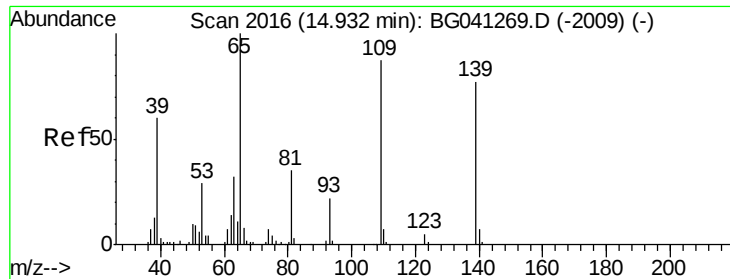
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.0  | 30.0  | 45.0  |
| 170     | 25.3  | 19.8  | 29.6  |



#51  
 2,6-Dinitrotoluene  
 Concen: 6.674 ng  
 RT: 14.71 min Scan# 1978  
 Delta R.T. 0.41 min  
 Lab File: BG041323.D  
 Acq: 19 Jun 2019 11:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 55.4  | 83.0# |
| 89      | 2.7   | 56.5  | 84.7# |

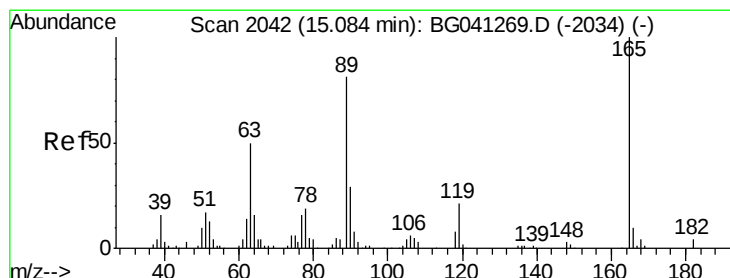
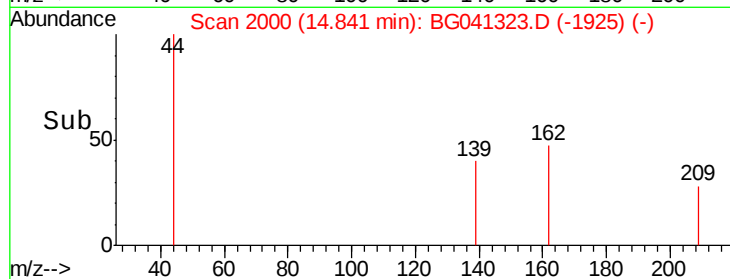
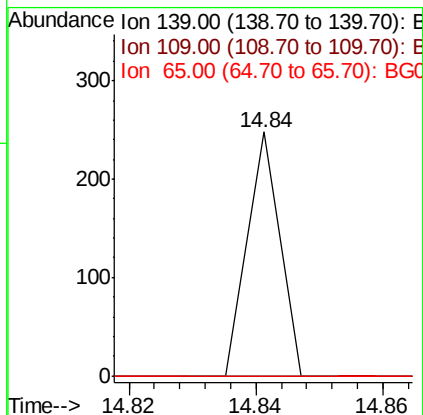
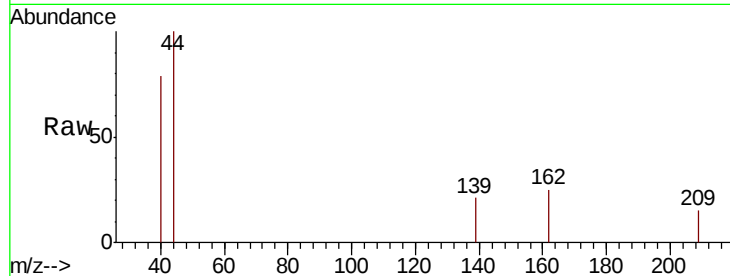




#56  
4-Nitrophenol  
Concen: 3.278 ng  
RT: 14.84 min Scan# 2000  
Delta R.T. -0.09 min  
Lab File: BG041323.D  
Acq: 19 Jun 2019 11:53

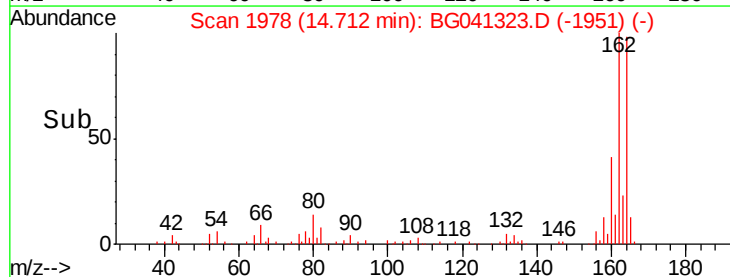
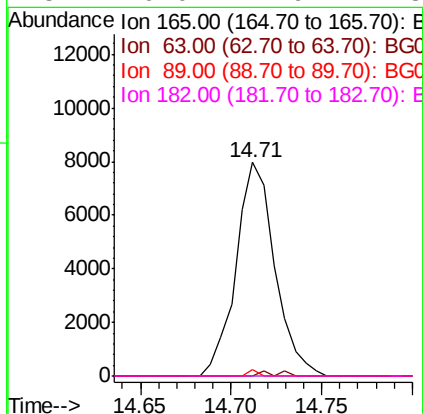
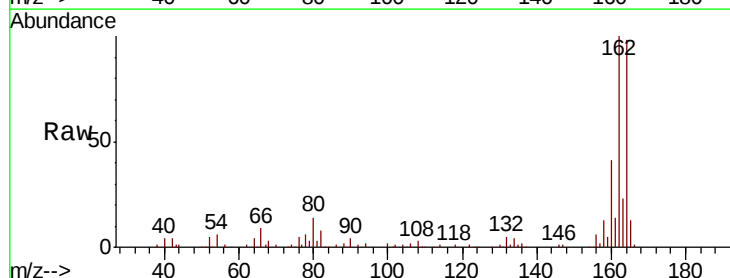
Instrument :  
BNA\_G  
ClientSampleId :

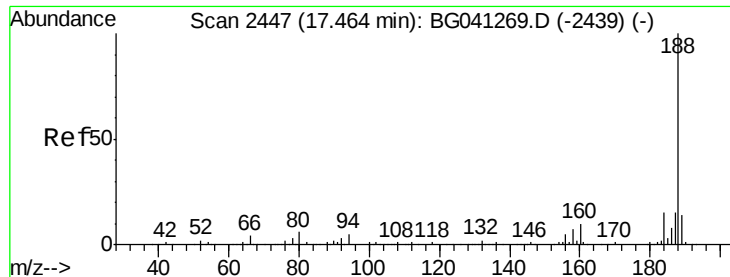
Tot Ion:139 Resp: 87  
Ion Ratio Lower Upper  
139 100  
109 0.0 93.2 133.2#  
65 0.0 110.2 150.2#



#57  
2,4-Dinitrotoluene  
Concen: 4.566 ng  
RT: 14.71 min Scan# 1978  
Delta R.T. -0.37 min  
Lab File: BG041323.D  
Acq: 19 Jun 2019 11:53

Tgt Ion:165 Resp: 11868  
Ion Ratio Lower Upper  
165 100  
63 0.0 40.0 60.0#  
89 2.7 64.6 96.8#  
182 0.0 2.9 4.3#

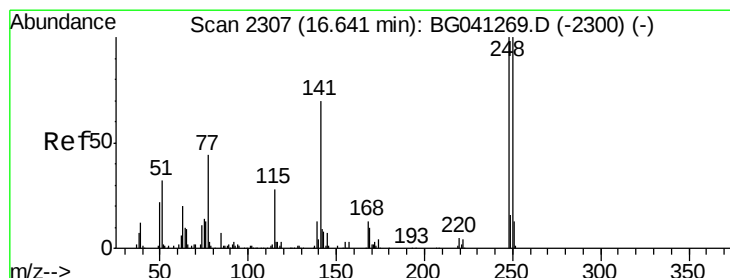
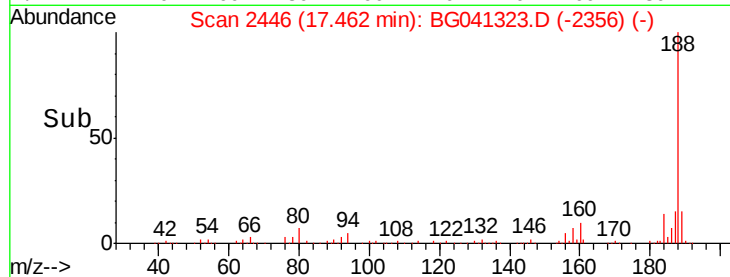
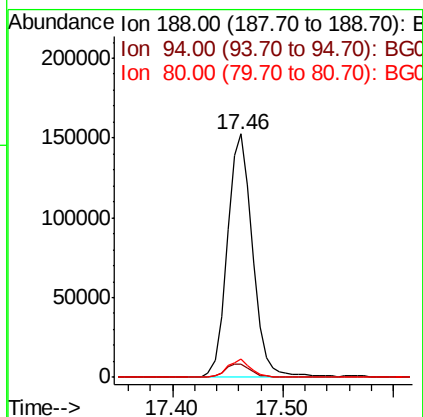
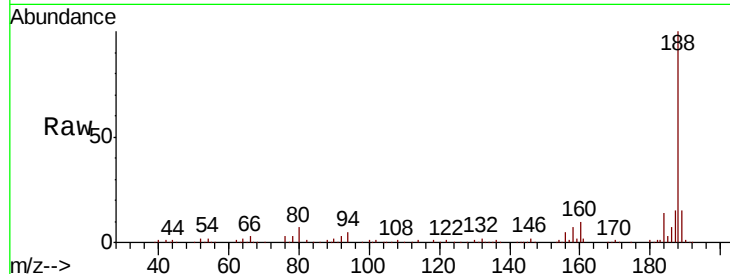




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.46 min Scan# 2446  
 Delta R.T. -0.00 min  
 Lab File: BG041323.D  
 Acq: 19 Jun 2019 11:53

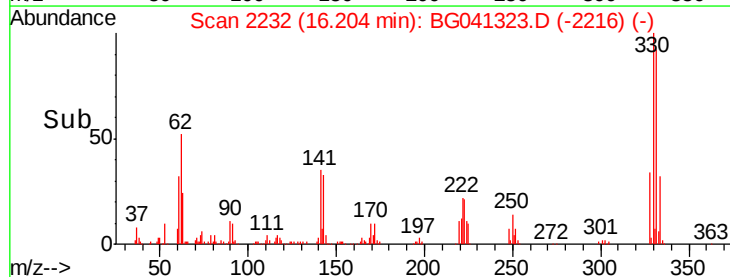
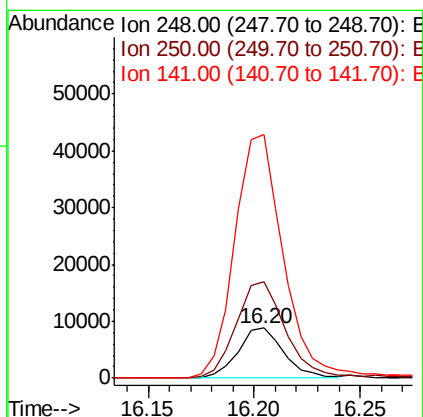
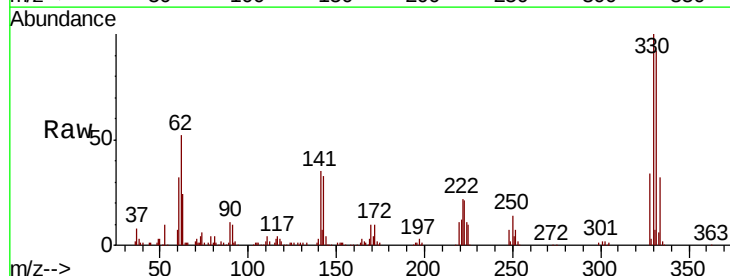
Instrument :  
 BNA\_G  
 ClientSampleId :

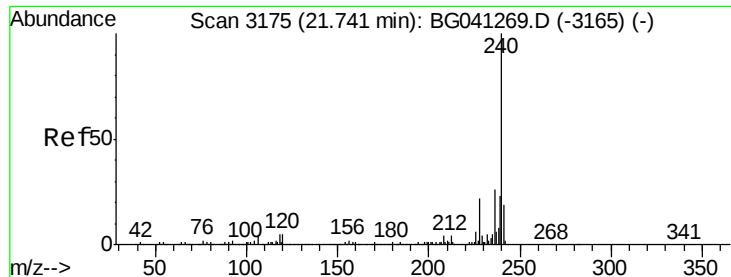
Tot Ion:188 Resp: 244127  
 Ion Ratio Lower Upper  
 188 100  
 94 5.5 3.6 5.4#  
 80 7.4 4.8 7.2#



#67  
 4-Bromophenyl-phenylether  
 Concen: 4.188 ng  
 RT: 16.20 min Scan# 2232  
 Delta R.T. -0.44 min  
 Lab File: BG041323.D  
 Acq: 19 Jun 2019 11:53

Tgt Ion:248 Resp: 13220  
 Ion Ratio Lower Upper  
 248 100  
 250 192.2 79.8 119.8#  
 141 486.0 55.8 83.6#

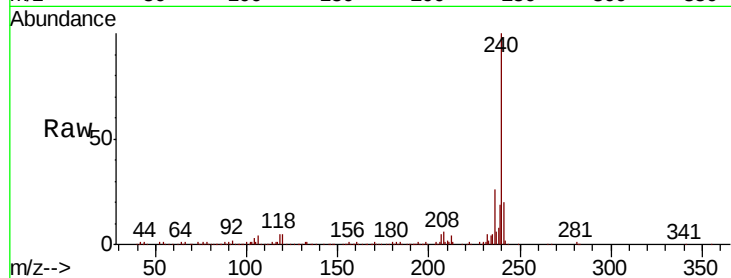




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.73 min Scan# 3173  
Delta R.T. -0.01 min  
Lab File: BG041323.D  
Acq: 19 Jun 2019 11:53

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 5.3   | 3.7   | 5.5   |
| 236     | 26.4  | 21.1  | 31.7  |

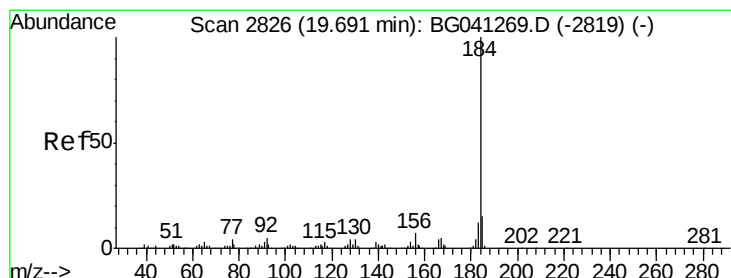
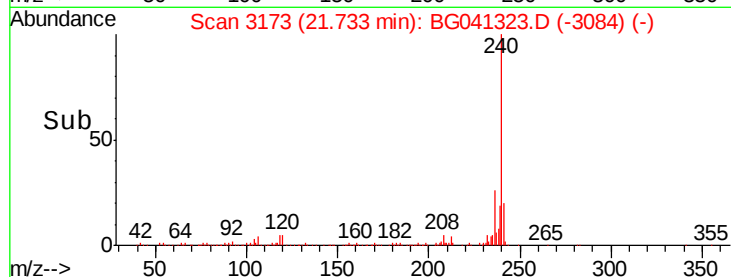
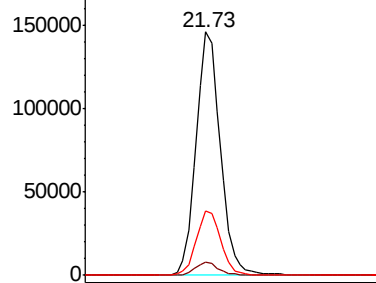


Abundance

Ion 240.00 (239.70 to 240.70): E

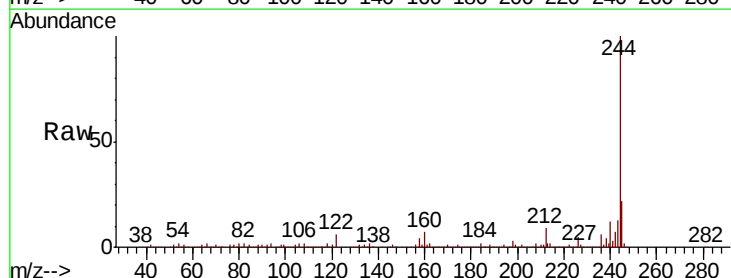
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77  
Benzidine  
Concen: 3.191 ng  
RT: 20.06 min Scan# 2888  
Delta R.T. 0.37 min  
Lab File: BG041323.D  
Acq: 19 Jun 2019 11:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 185     | 17.6  | 12.2  | 18.2  |
| 183     | 9.3   | 9.6   | 14.4  |

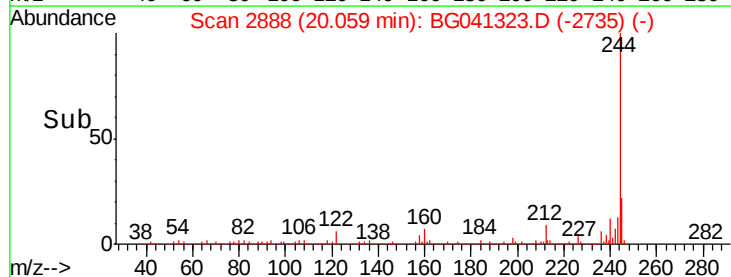
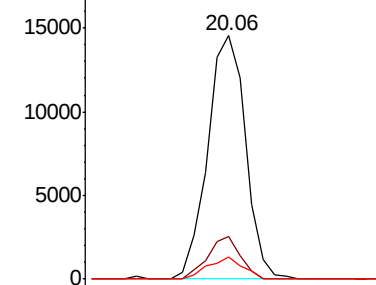


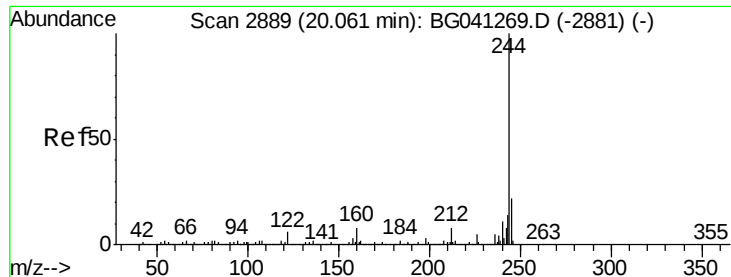
Abundance

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: 91.008 ng

RT: 20.06 min Scan# 2888

Delta R.T. -0.00 min

Lab File: BG041323.D

Acq: 19 Jun 2019 11:53

Instrument :

BNA\_G

ClientSampleId :

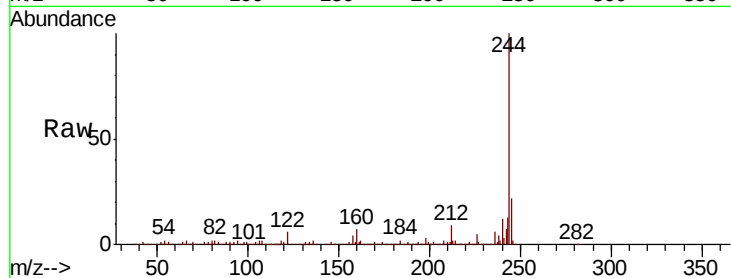
Tot Ion:244 Resp: 1160217

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.5   | 6.6   | 10.0  |
| 122 | 6.3   | 5.0   | 7.4   |

244 100

212 8.5 6.6 10.0

122 6.3 5.0 7.4



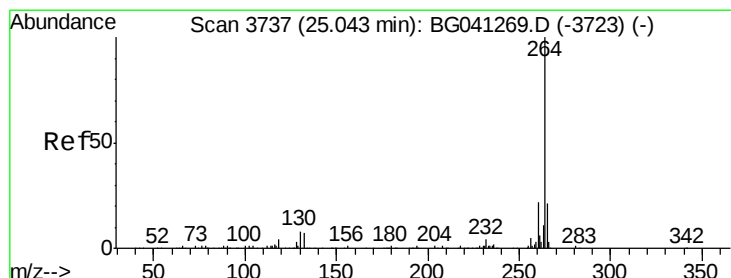
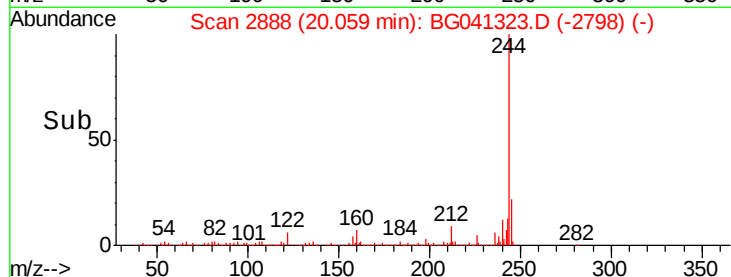
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

20.06

Time-->



#87

Perylene-d12

Concen: 20.000 ng

RT: 25.05 min Scan# 3737

Delta R.T. 0.00 min

Lab File: BG041323.D

Acq: 19 Jun 2019 11:53

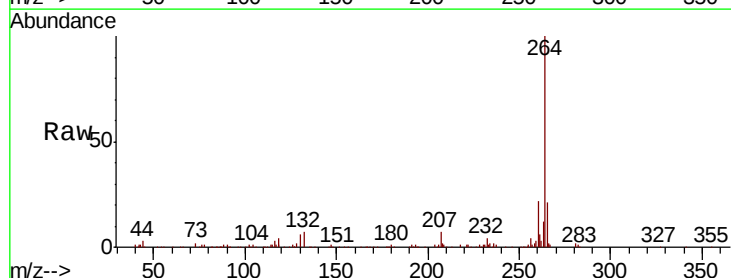
Tgt Ion:264 Resp: 265972

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 22.1  | 17.4  | 26.2  |
| 265 | 21.1  | 17.2  | 25.8  |

264 100

260 22.1 17.4 26.2

265 21.1 17.2 25.8



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

25.05

Time-->

