

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG062019\  
 Data File : BG041361.D  
 Acq On : 20 Jun 2019 17:44  
 Operator : HP/JU  
 Sample : K3157-05 2X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jun 20 18:29:06 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  | 42534    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.90 | 136  | 163879   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.72 | 164  | 111941   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.47 | 188  | 249964   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.74 | 240  | 248901   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 25.08 | 264  | 145984   | 20.00 | ng    | 0.04     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.62  | 112  | 119819   | 51.76 | ng    | 0.00     |
| 7) Phenol-d6                | 7.24  | 99   | 173712   | 51.77 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.26  | 82   | 128484   | 32.97 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.21 | 330  | 83469    | 48.57 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.34 | 172  | 294683   | 35.78 | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.06 | 244  | 443292   | 35.30 | ng    | 0.00     |

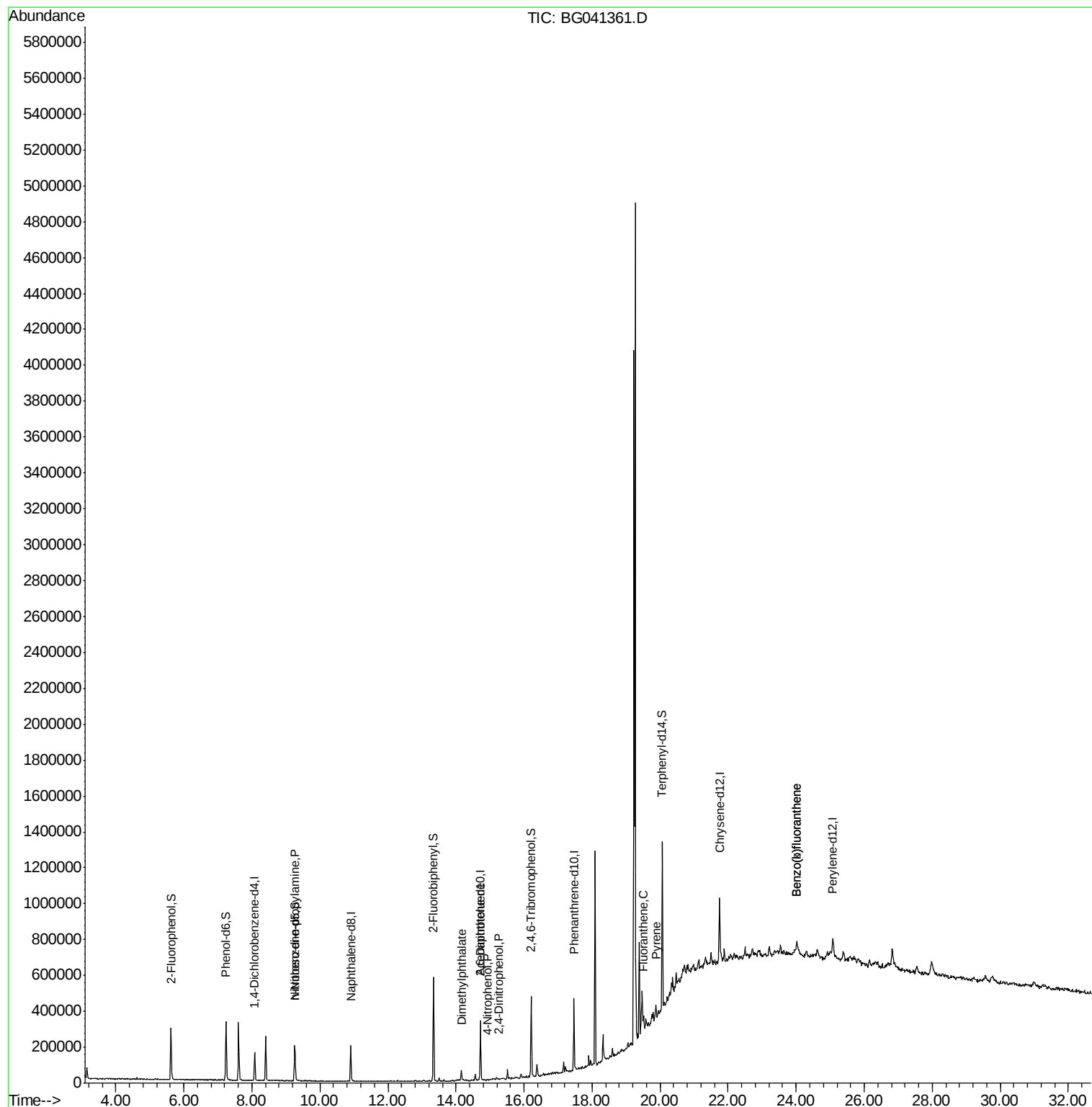
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 9.26  | 70   | 18751    | 6.909 | ng    | # 79   |
| 50) Dimethylphthalate          | 14.16 | 163  | 33059    | 3.319 | ng    | # 95   |
| 51) 2,6-Dinitrotoluene         | 14.72 | 165  | 15525    | 7.392 | ng    | # 16   |
| 54) 2,4-Dinitrophenol          | 15.25 | 184  | 56       | 4.881 | ng    | # 13   |
| 56) 4-Nitrophenol              | 14.92 | 139  | 165      | 3.316 | ng    | # 56   |
| 75) Fluoranthene               | 19.52 | 202  | 38535    | 2.176 | ng    | # 92   |
| 78) Pyrene                     | 19.88 | 202  | 47013    | 2.801 | ng    | # 90   |
| 88) Benzo(b)fluoranthene       | 24.02 | 252  | 31549    | 3.487 | ng    | # 1    |
| 89) Benzo(k)fluoranthene       | 24.02 | 252  | 31549    | 3.520 | ng    | # 1    |

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

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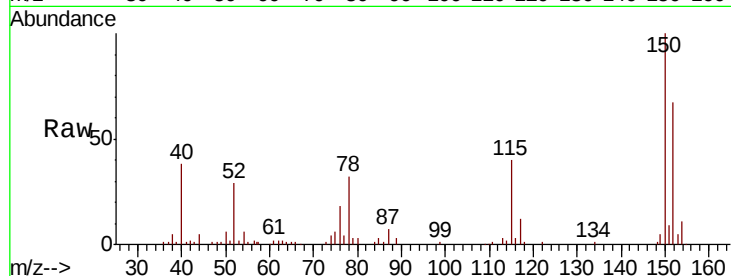


#1

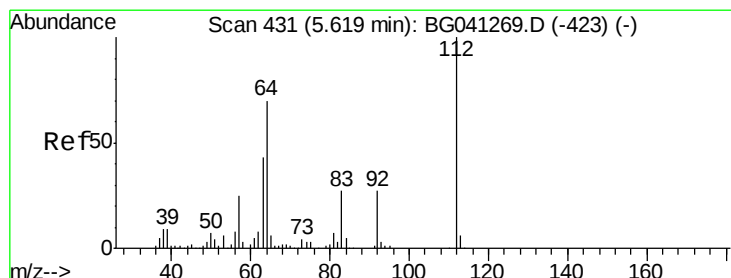
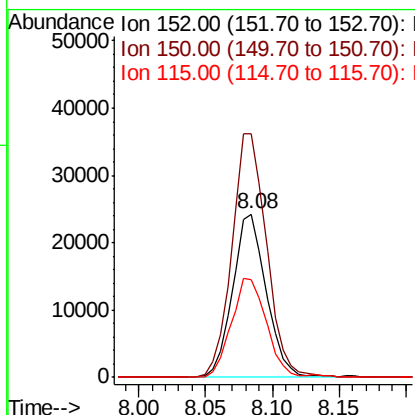
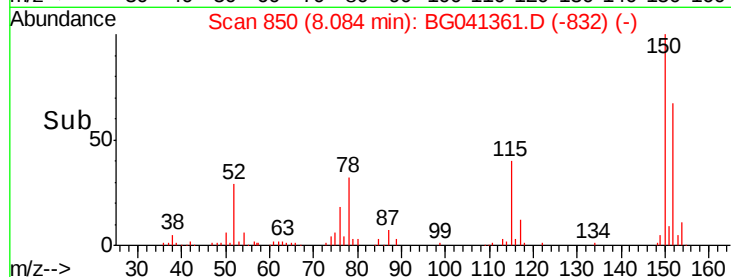
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.08 min Scan# 850  
Delta R.T. 0.00 min  
Lab File: BG041361.D  
Acq: 20 Jun 2019 17:44

Instrument :  
BNA\_G  
ClientSampled :

Tot Ion:152 Resp: 42534  
Ion Ratio Lower Upper  
152 100  
150 149.3 120.6 181.0  
115 60.0 47.9 71.9



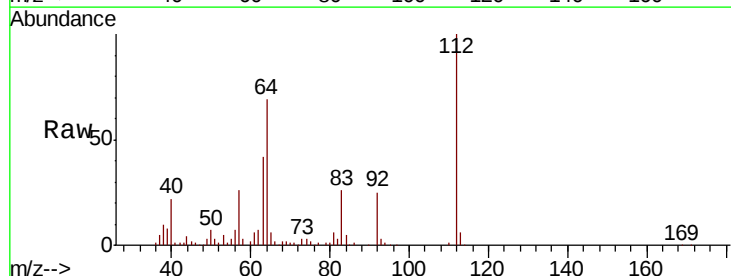
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



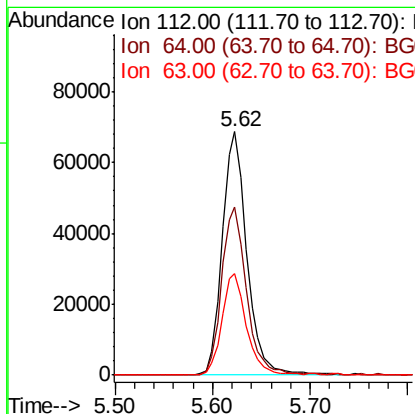
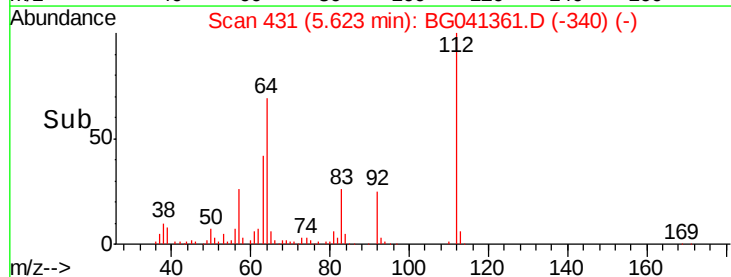
#5

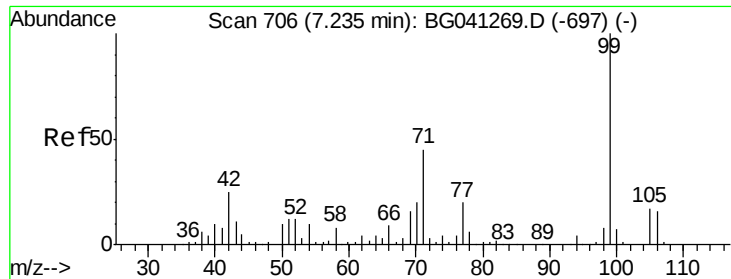
2-Fluorophenol  
Concen: 51.760 ng  
RT: 5.62 min Scan# 431  
Delta R.T. 0.00 min  
Lab File: BG041361.D  
Acq: 20 Jun 2019 17:44

Tgt Ion:112 Resp: 119819  
Ion Ratio Lower Upper  
112 100  
64 69.1 55.9 83.9  
63 42.0 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: 51.770 ng

RT: 7.24 min Scan# 706

Delta R.T. 0.00 min

Lab File: BG041361.D

Acq: 20 Jun 2019 17:44

Instrument :

BNA\_G

ClientSampleId :

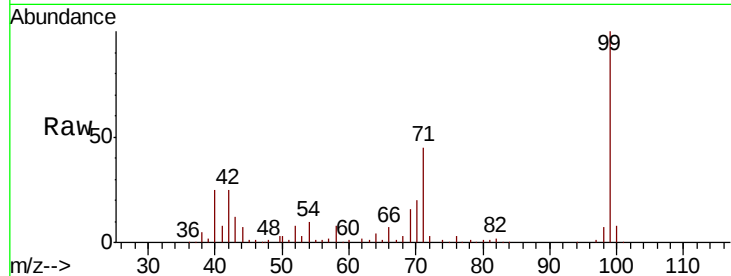
Tot Ion: 99 Resp: 173712

Ion Ratio Lower Upper

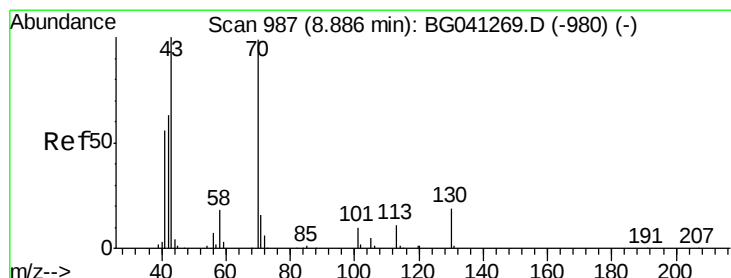
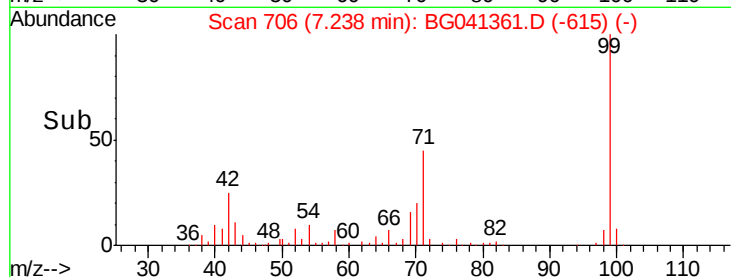
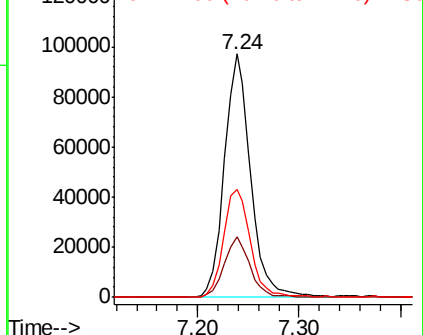
99 100

42 25.1 19.9 29.9

71 44.6 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: 6.909 ng

RT: 9.26 min Scan# 1050

Delta R.T. 0.37 min

Lab File: BG041361.D

Acq: 20 Jun 2019 17:44

Tgt Ion: 70 Resp: 18751

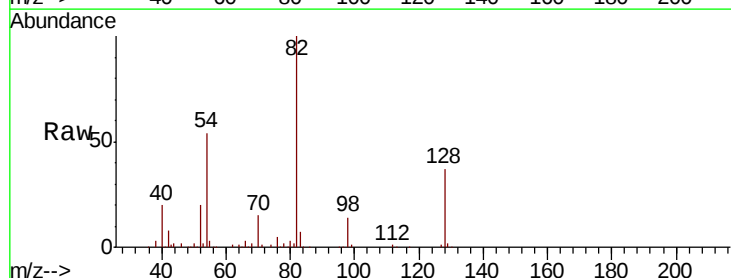
Ion Ratio Lower Upper

70 100

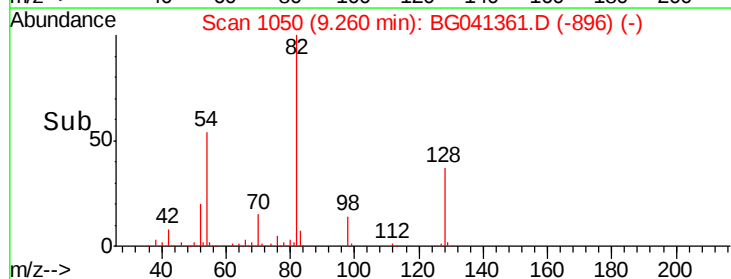
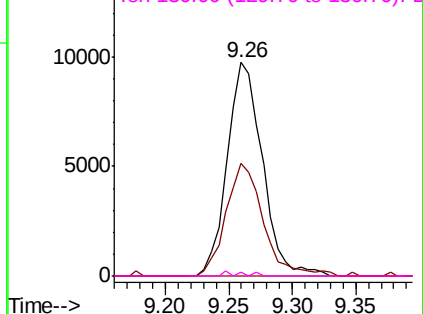
42 52.7 51.4 77.2

101 0.0 8.2 12.2#

130 1.8 15.2 22.8#



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

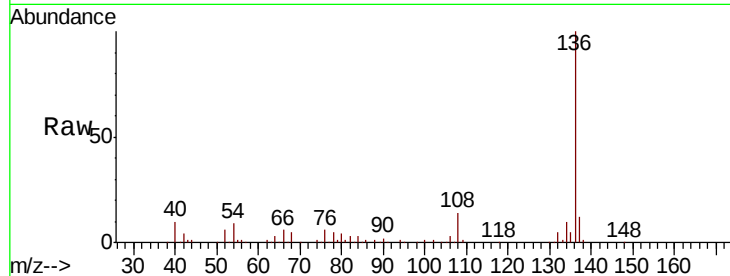




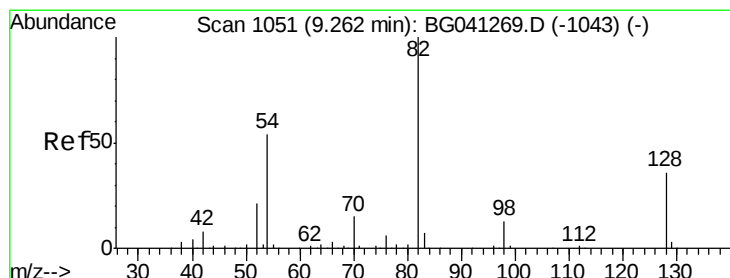
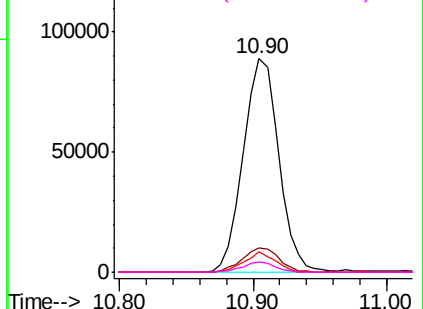
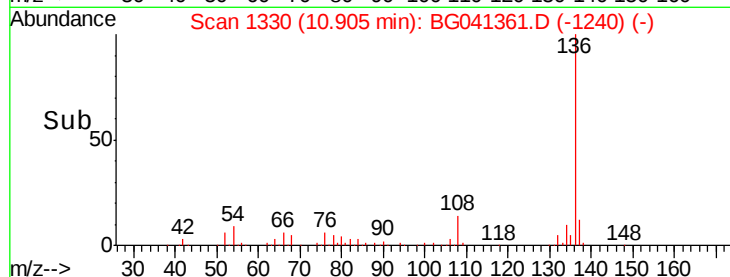
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.90 min Scan# 1330  
Delta R.T. -0.00 min  
Lab File: BG041361.D  
Acq: 20 Jun 2019 17:44

Instrument :  
BNA\_G  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 163879      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.7  | 8.8 13.2    |
| 54          | 9.4   | 6.4 9.6     |
| 68          | 4.8   | 4.8 7.2     |

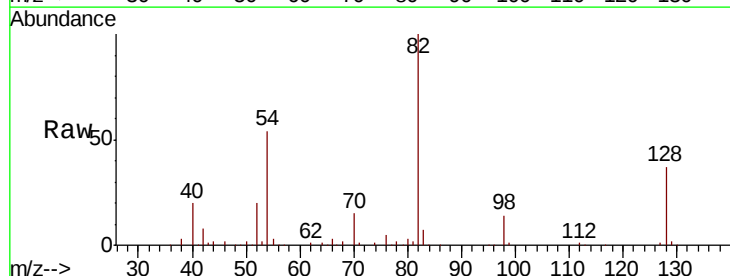


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

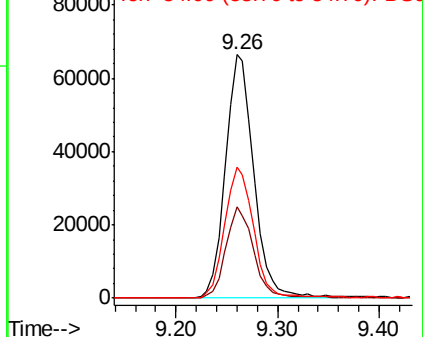
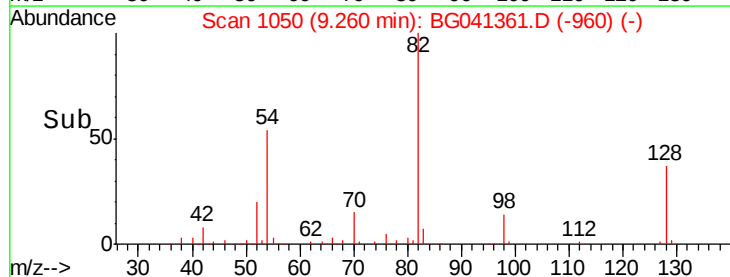


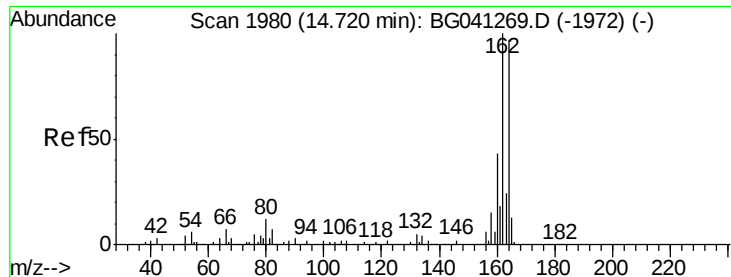
#23  
Nitrobenzene-d5  
Concen: 32.973 ng  
RT: 9.26 min Scan# 1050  
Delta R.T. -0.00 min  
Lab File: BG041361.D  
Acq: 20 Jun 2019 17:44

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 128484      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 37.3  | 29.2 43.8   |
| 54          | 53.9  | 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: 14.72 min Scan# 1979

Delta R.T. -0.00 min

Lab File: BG041361.D

Acq: 20 Jun 2019 17:44

Instrument :

BNA\_G

ClientSampleId :

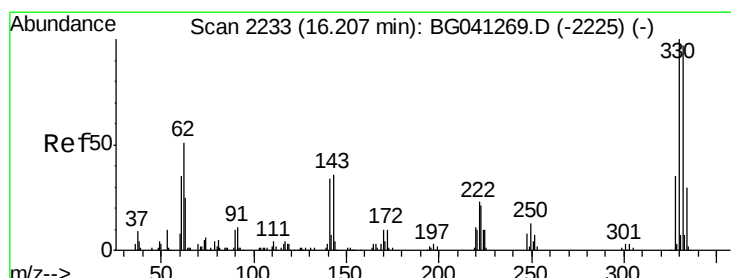
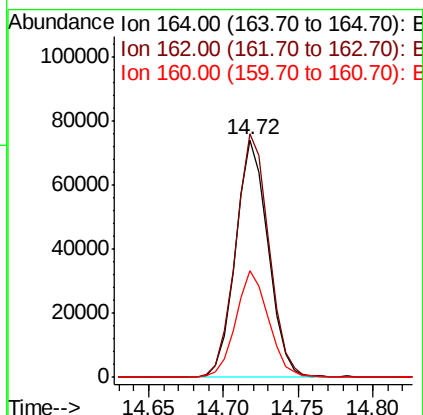
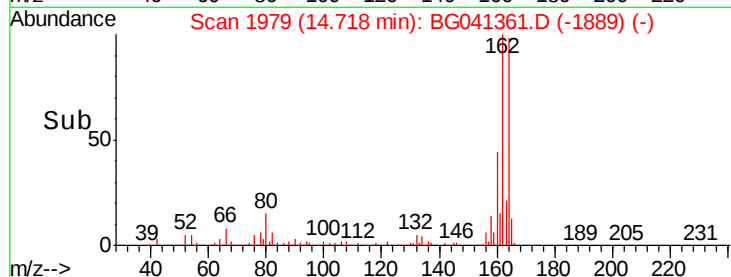
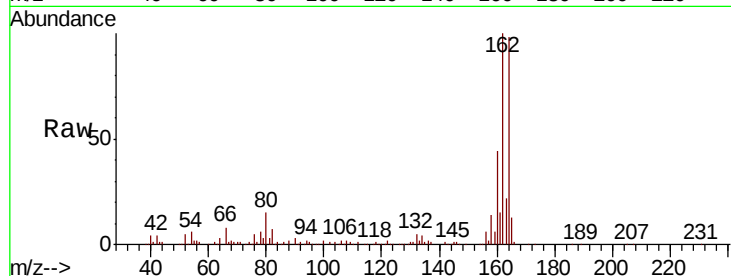
Tot Ion:164 Resp: 111941

Ion Ratio Lower Upper

164 100

162 102.4 82.8 124.2

160 44.8 35.8 53.8



#42

2,4,6-Tribromophenol

Concen: 48.570 ng

RT: 16.21 min Scan# 2233

Delta R.T. 0.00 min

Lab File: BG041361.D

Acq: 20 Jun 2019 17:44

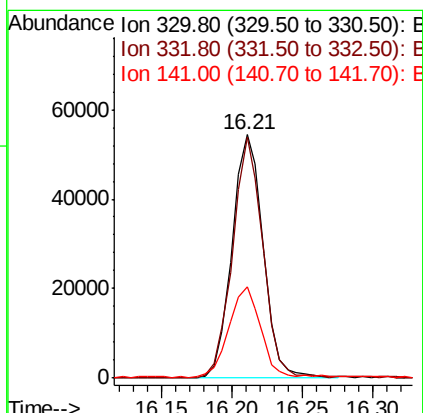
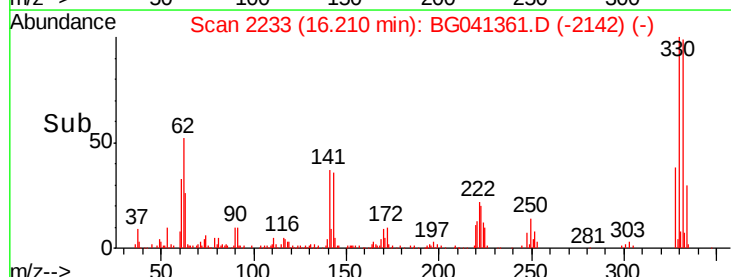
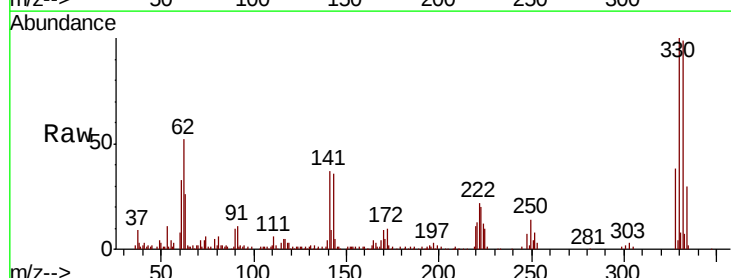
Tgt Ion:330 Resp: 83469

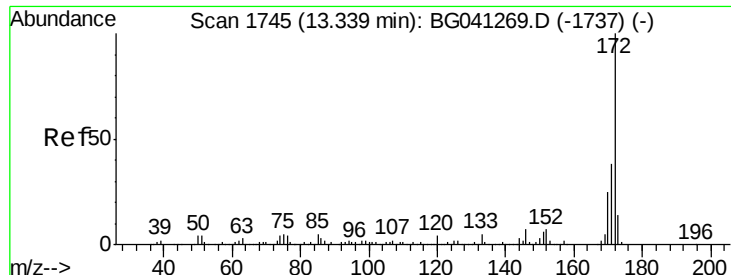
Ion Ratio Lower Upper

330 100

332 96.2 75.5 113.3

141 38.2 29.0 43.4

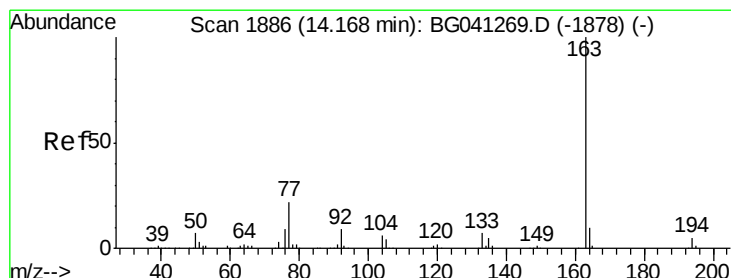
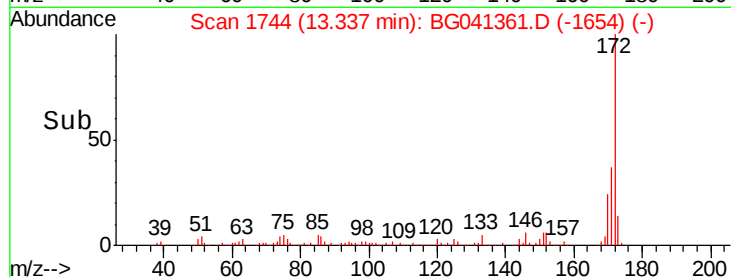
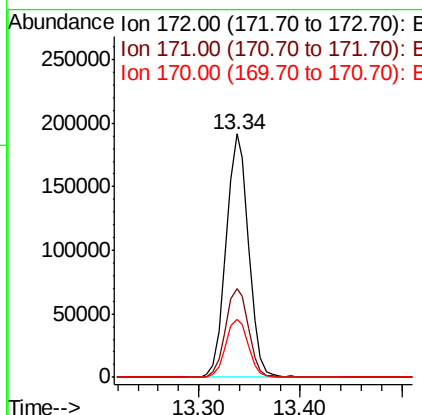
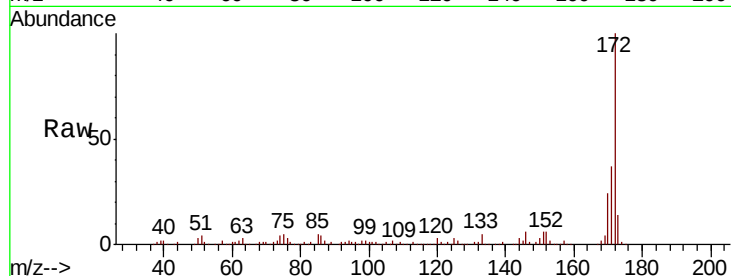




#45  
2-Fluorobiphenyl  
Concen: 35.780 ng  
RT: 13.34 min Scan# 1744  
Delta R.T. -0.00 min  
Lab File: BG041361.D  
Acq: 20 Jun 2019 17:44

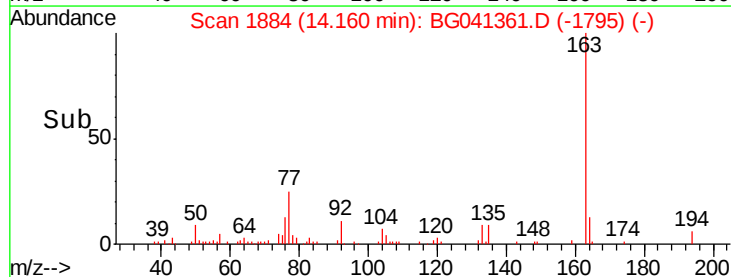
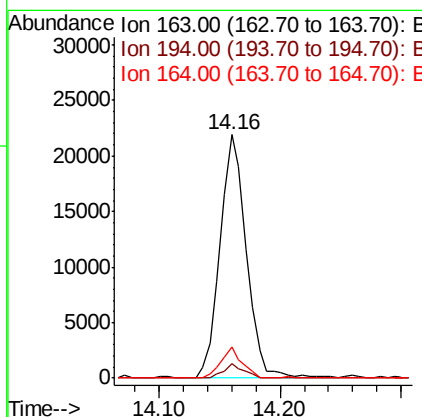
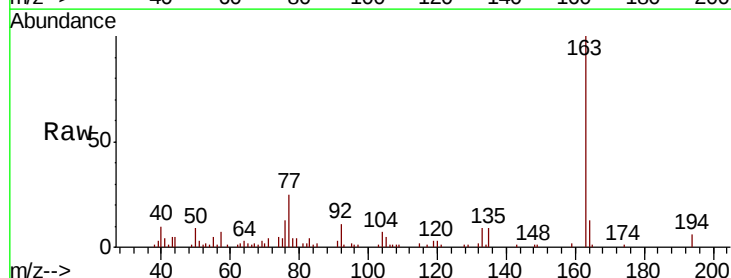
Instrument :  
BNA\_G  
ClientSampled :

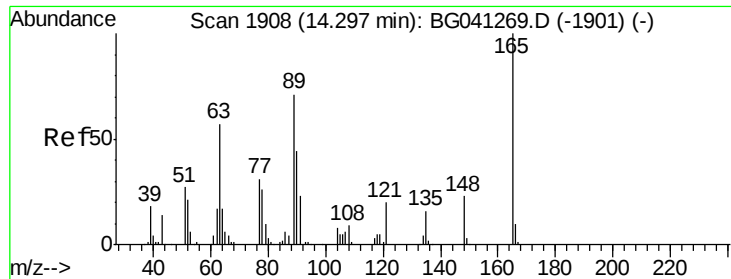
Tot Ion:172 Resp: 294683  
Ion Ratio Lower Upper  
172 100  
171 36.6 30.0 45.0  
170 23.9 19.8 29.6



#50  
Dimethylphthalate  
Concen: 3.319 ng  
RT: 14.16 min Scan# 1884  
Delta R.T. -0.01 min  
Lab File: BG041361.D  
Acq: 20 Jun 2019 17:44

Tgt Ion:163 Resp: 33059  
Ion Ratio Lower Upper  
163 100  
194 6.0 3.9 5.9#  
164 12.9 8.3 12.5#





#51

2,6-Dinitrotoluene

Concen: 7.392 ng

RT: 14.72 min Scan# 1979

Delta R.T. 0.42 min

Lab File: BG041361.D

Acq: 20 Jun 2019 17:44

Instrument :

BNA\_G

ClientSampled :

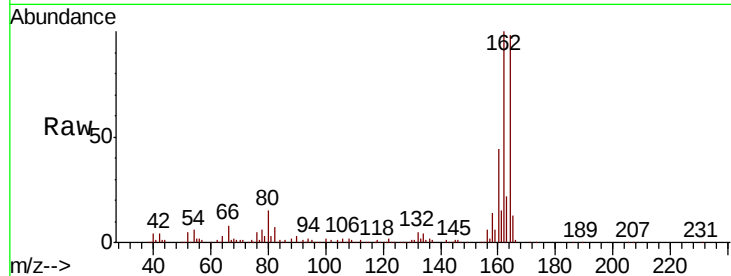
Tot Ion:165 Resp: 15525

Ion Ratio Lower Upper

165 100

63 1.7 55.4 83.0#

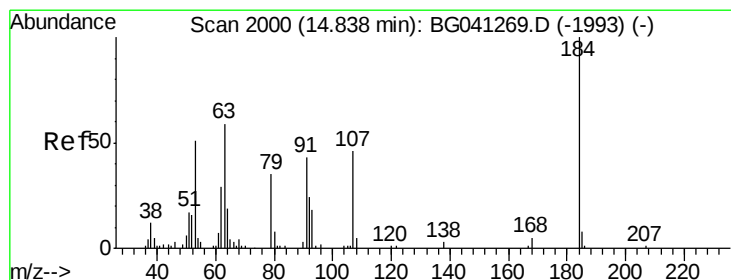
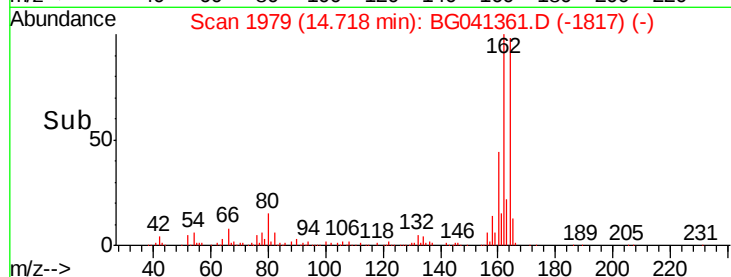
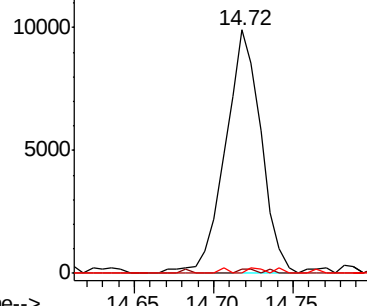
89 0.0 56.5 84.7#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BG0

Ion 89.00 (88.70 to 89.70): BG0



#54

2,4-Dinitrophenol

Concen: 4.881 ng

RT: 15.25 min Scan# 2069

Delta R.T. 0.41 min

Lab File: BG041361.D

Acq: 20 Jun 2019 17:44

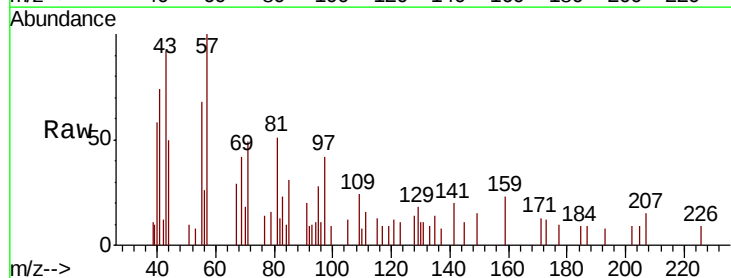
Tgt Ion:184 Resp: 56

Ion Ratio Lower Upper

184 100

63 0.0 60.0 90.0#

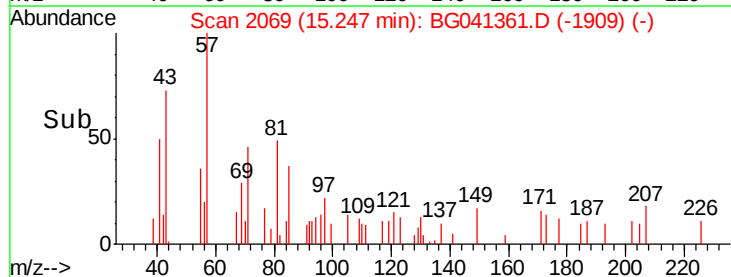
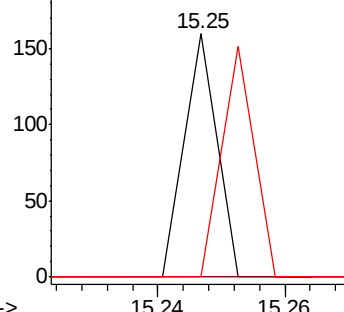
154 0.0 58.3 87.5#

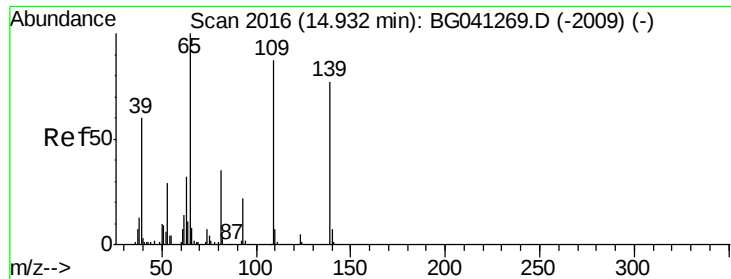


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BG0

Ion 154.00 (153.70 to 154.70): E

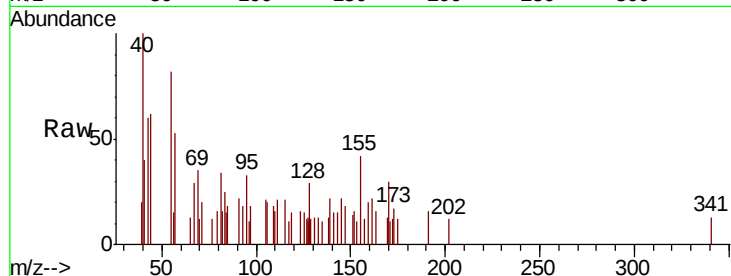




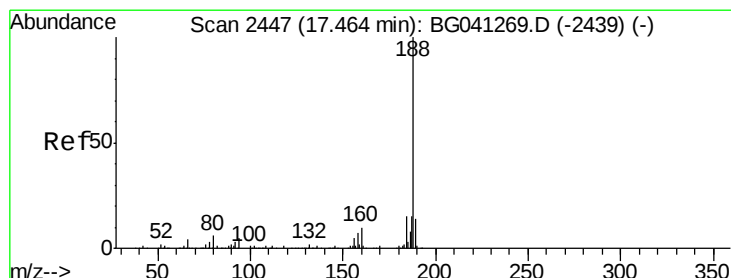
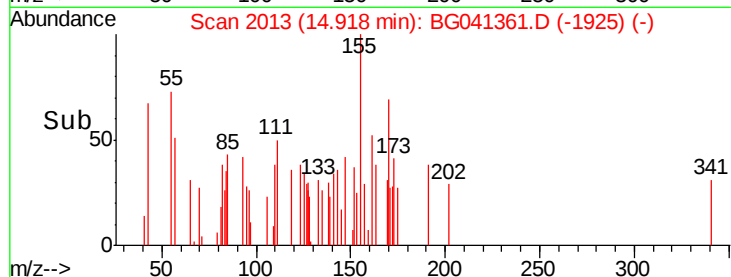
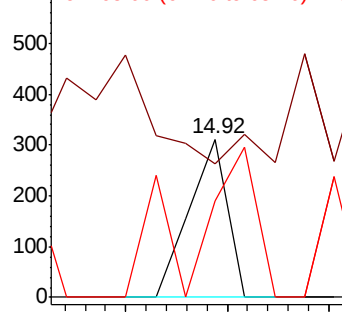
#56  
4-Nitrophenol  
Concen: 3.316 ng  
RT: 14.92 min Scan# 2013  
Delta R.T. -0.01 min  
Lab File: BG041361.D  
Acq: 20 Jun 2019 17:44

Instrument :  
BNA\_G  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 139     | 100   |       |        |
| 109     | 84.6  | 93.2  | 133.2# |
| 65      | 60.8  | 110.2 | 150.2# |

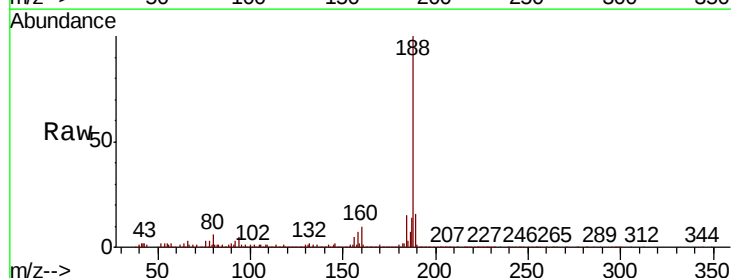


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BGC

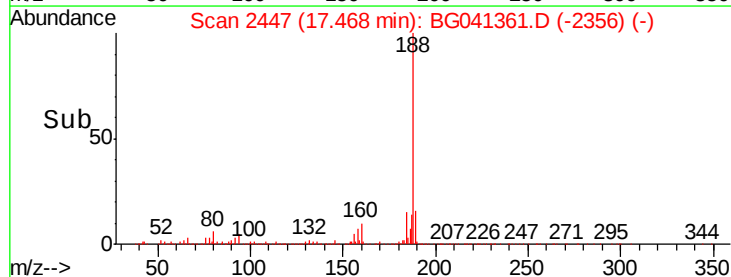
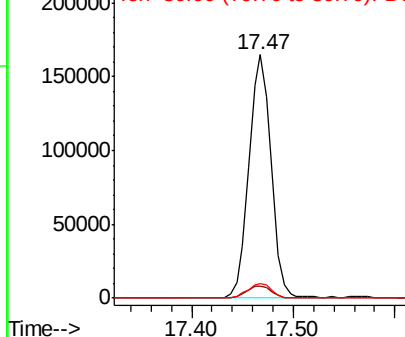


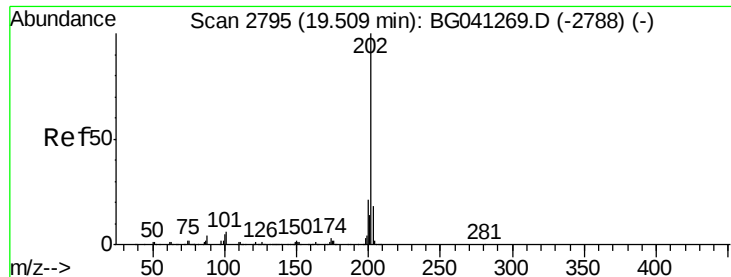
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.47 min Scan# 2447  
Delta R.T. 0.00 min  
Lab File: BG041361.D  
Acq: 20 Jun 2019 17:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 4.9   | 3.6   | 5.4   |
| 80      | 6.1   | 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





#75

Fluoranthene

Concen: 2.176 ng

RT: 19.52 min Scan# 2796

Delta R.T. 0.01 min

Lab File: BG041361.D

Acq: 20 Jun 2019 17:44

Instrument :

BNA\_G

ClientSampleId :

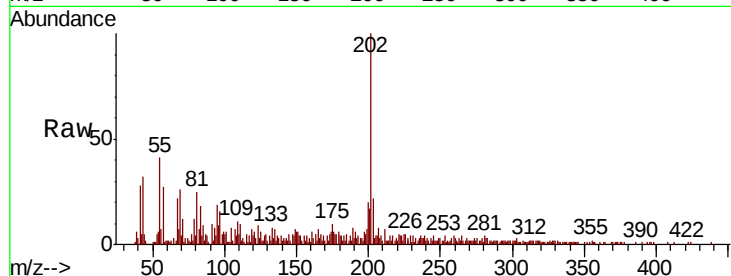
Tot Ion:202 Resp: 38535

Ion Ratio Lower Upper

202 100

101 5.6 0.0 26.0

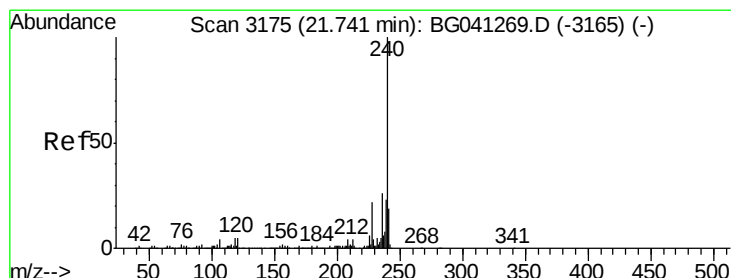
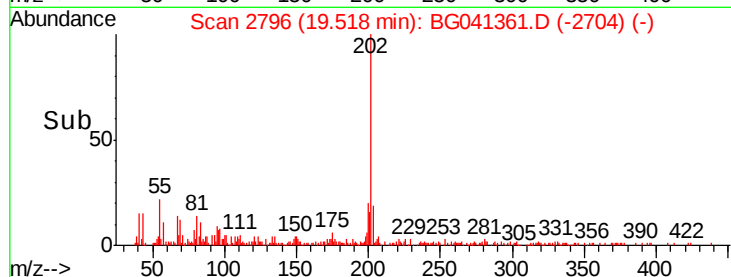
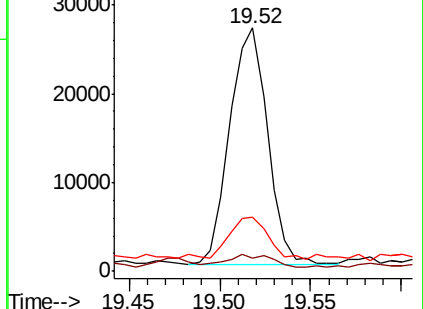
203 22.5 0.0 37.7



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: 21.74 min Scan# 3175

Delta R.T. 0.00 min

Lab File: BG041361.D

Acq: 20 Jun 2019 17:44

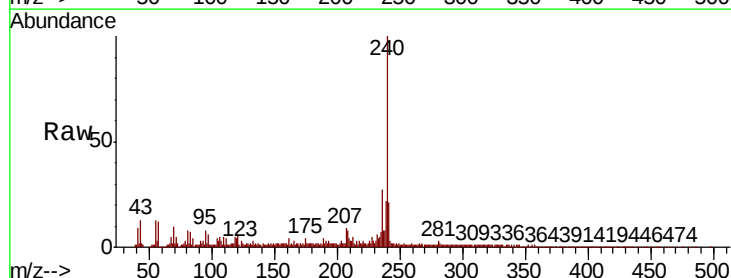
Tgt Ion:240 Resp: 248901

Ion Ratio Lower Upper

240 100

120 5.9 3.7 5.5#

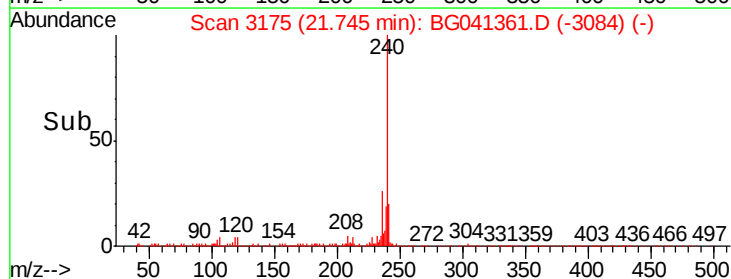
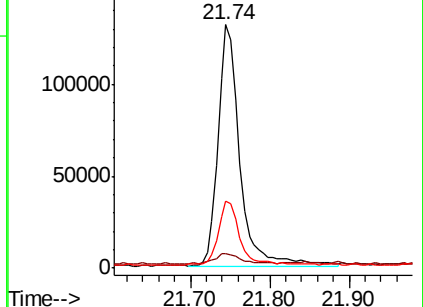
236 27.4 21.1 31.7

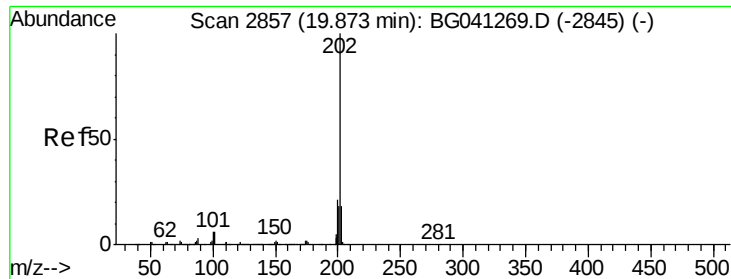


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 2.801 ng

RT: 19.88 min Scan# 2858

Delta R.T. 0.01 min

Lab File: BG041361.D

Acq: 20 Jun 2019 17:44

Instrument :

BNA\_G

ClientSampleId :

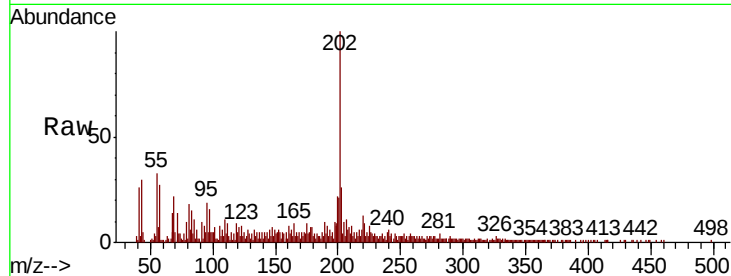
Tot Ion:202 Resp: 47013

Ion Ratio Lower Upper

202 100

200 22.1 16.8 25.2

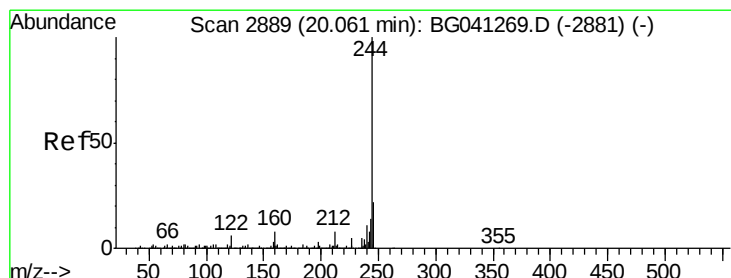
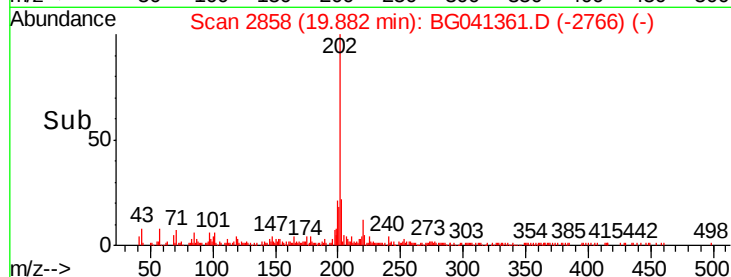
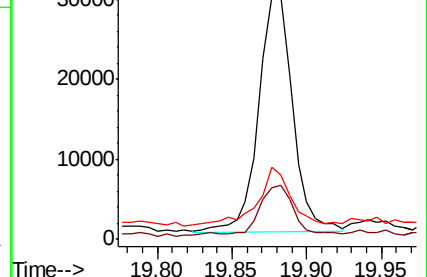
203 26.3 14.6 21.8#



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: 35.296 ng

RT: 20.06 min Scan# 2889

Delta R.T. 0.00 min

Lab File: BG041361.D

Acq: 20 Jun 2019 17:44

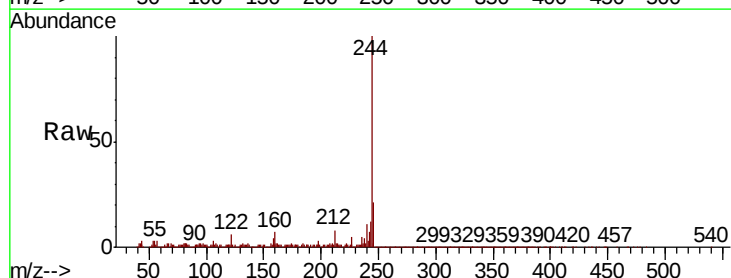
Tgt Ion:244 Resp: 443292

Ion Ratio Lower Upper

244 100

212 8.1 6.6 10.0

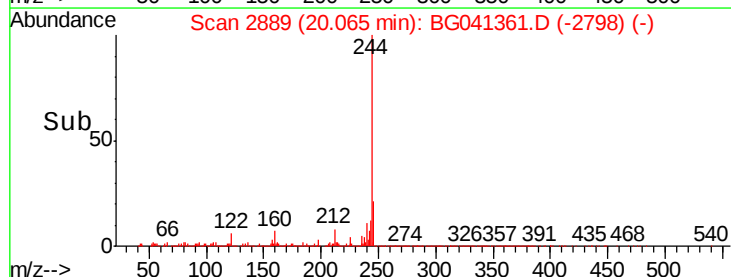
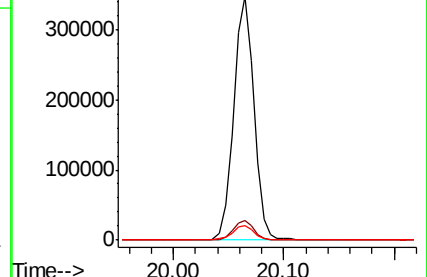
122 5.9 5.0 7.4

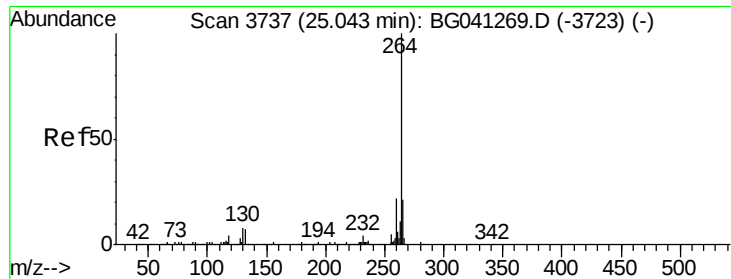


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

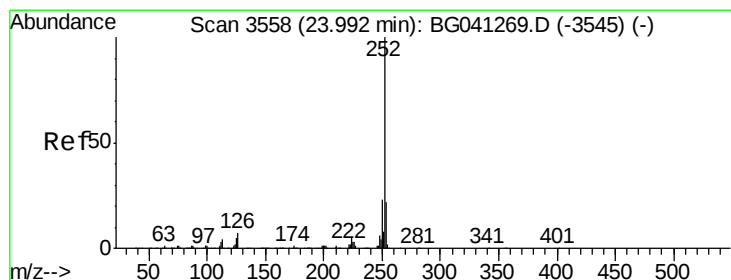
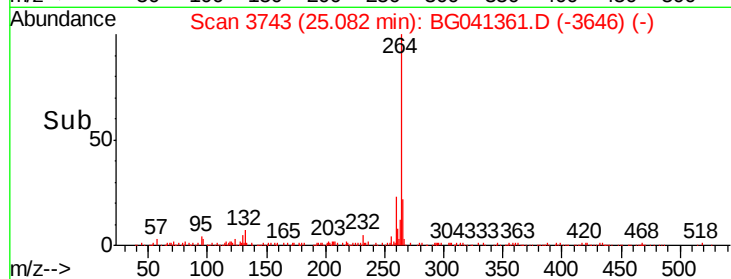
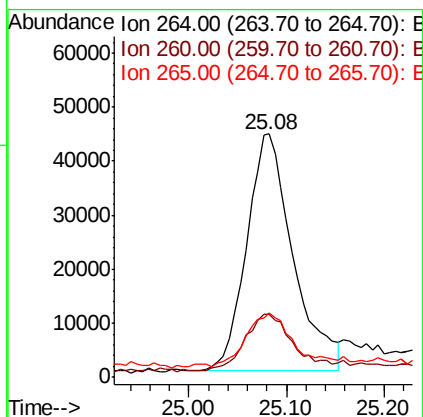
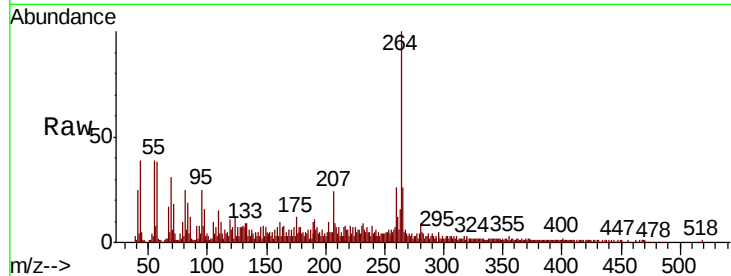




#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 25.08 min Scan# 3743  
Delta R.T. 0.04 min  
Lab File: BG041361.D  
Acq: 20 Jun 2019 17:44

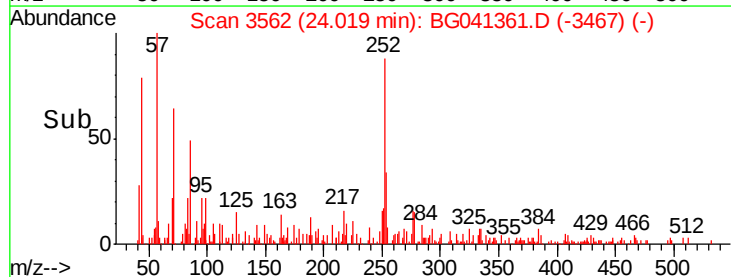
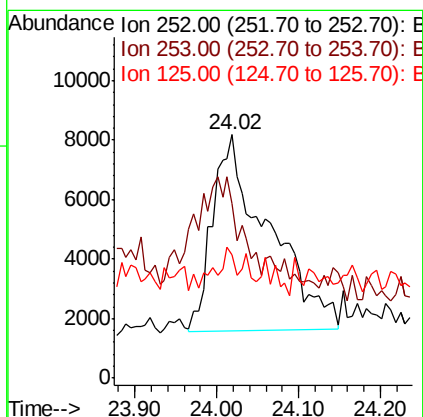
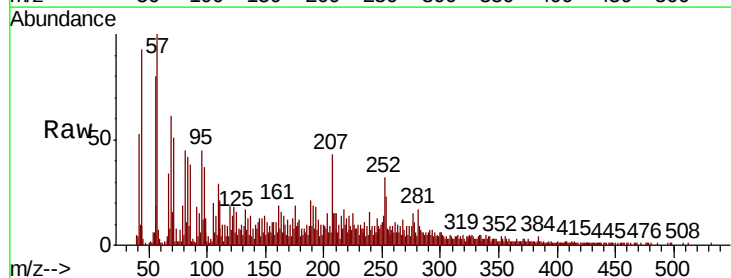
Instrument :  
BNA\_G  
ClientSampleId :

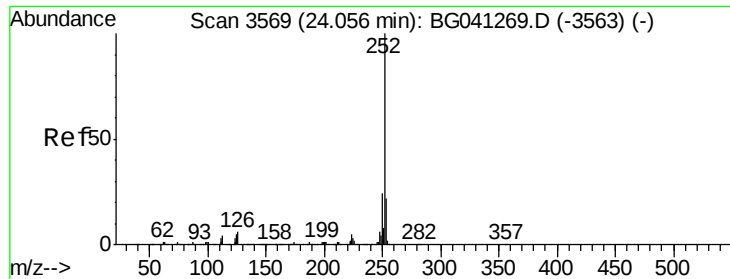
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 26.1  | 17.4  | 26.2  |
| 265     | 26.4  | 17.2  | 25.8# |



#88  
Benzo(b)fluoranthene  
Concen: 3.487 ng  
RT: 24.02 min Scan# 3562  
Delta R.T. 0.03 min  
Lab File: BG041361.D  
Acq: 20 Jun 2019 17:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 71.5  | 17.4  | 26.0# |
| 125     | 50.8  | 3.9   | 5.9#  |





#89

Benzo(k)fluoranthene

Concen: 3.520 ng

RT: 24.02 min Scan# 3562

Delta R.T. -0.04 min

Lab File: BG041361.D

Acq: 20 Jun 2019 17:44

Instrument :

BNA\_G

ClientSampleId :

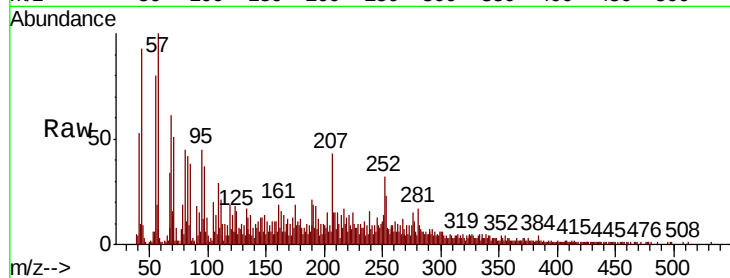
Tot Ion:252 Resp: 31549

Ion Ratio Lower Upper

252 100

253 71.5 18.0 27.0#

125 50.8 4.3 6.5#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

