

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG071519\  
 Data File : BG041656.D  
 Acq On : 15 Jul 2019 19:33  
 Operator : HP/JU  
 Sample : K3740-08RE  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 COMP-23

Quant Time: Jul 16 07:51:28 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 15 16:16:21 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.05  | 152  | 99351    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.86 | 136  | 399282   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.67 | 164  | 249199   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.40 | 188  | 602392   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.66 | 240  | 584759   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 24.85 | 264  | 643712   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.62  | 112  | 690457   | 113.61 | ng    | 0.00     |
| 7) Phenol-d6                | 7.20  | 99   | 861767   | 105.42 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.21  | 82   | 650154   | 99.03  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.15 | 330  | 417685   | 148.73 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.30 | 172  | 1517502  | 94.30  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.01 | 244  | 2306227  | 92.16  | ng    | 0.00     |

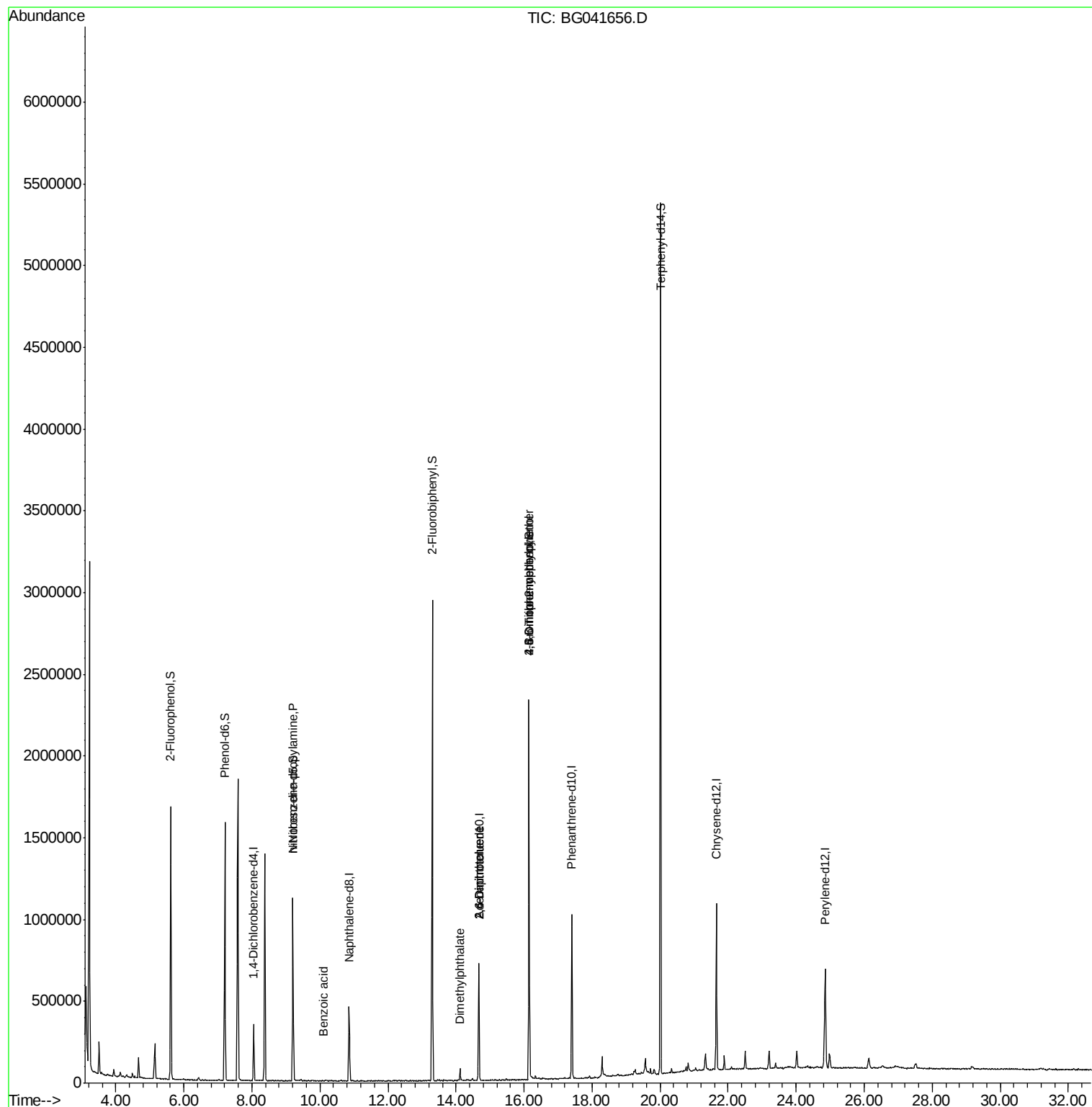
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 7.20  | 77   | 1536     | Below Cal |       | # 14   |
| 19) n-Nitroso-di-n-propylamine | 9.21  | 70   | 91382    | 15.295    | ng    | # 74   |
| 32) Benzoic acid               | 10.10 | 122  | 56       | 6.023     | ng    | # 46   |
| 50) Dimethylphthalate          | 14.12 | 163  | 48499    | 2.478     | ng    | # 95   |
| 51) 2,6-Dinitrotoluene         | 14.67 | 165  | 34120    | 8.219     | ng    | # 27   |
| 57) 2,4-Dinitrotoluene         | 14.67 | 165  | 34120    | 6.218     | ng    | # 29   |
| 65) 4,6-Dinitro-2-methylphenol | 16.15 | 198  | 1302     | 7.066     | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 16.15 | 248  | 33236    | 4.637     | ng    | # 1    |

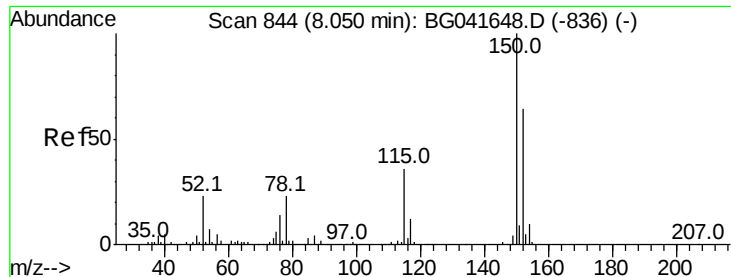
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG071519\  
Data File : BG041656.D  
Acq On : 15 Jul 2019 19:33  
Operator : HP/JU  
Sample : K3740-08RE  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
COMP-23

Quant Time: Jul 16 07:51:28 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG071519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jul 15 16:16:21 2019  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 8.05 min Scan# 845

Delta R.T. 0.00 min

Lab File: BG041656.D

Acq: 15 Jul 2019 19:33

Instrument :

BNA\_G

ClientSampleId :

COMP-23

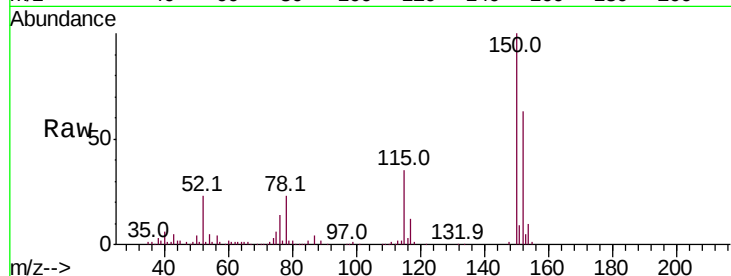
Tot Ion:152 Resp: 99351

Ion Ratio Lower Upper

152 100

150 157.7 126.9 190.3

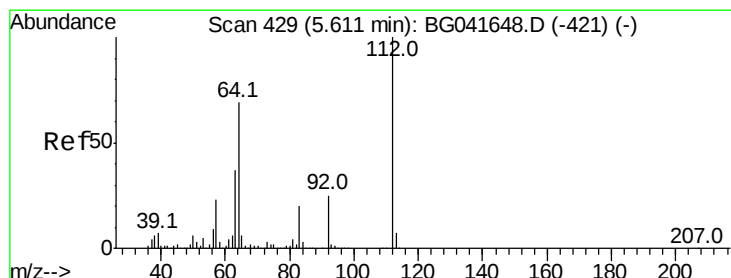
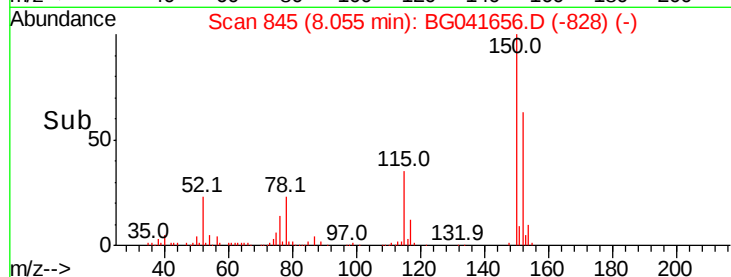
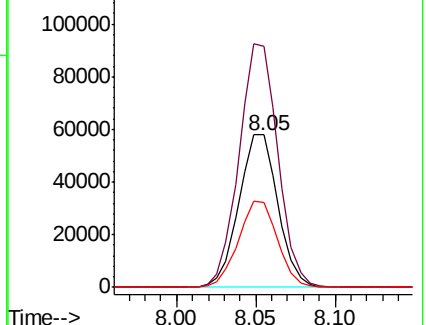
115 55.5 45.0 67.6



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: 113.610 ng

RT: 5.62 min Scan# 430

Delta R.T. 0.01 min

Lab File: BG041656.D

Acq: 15 Jul 2019 19:33

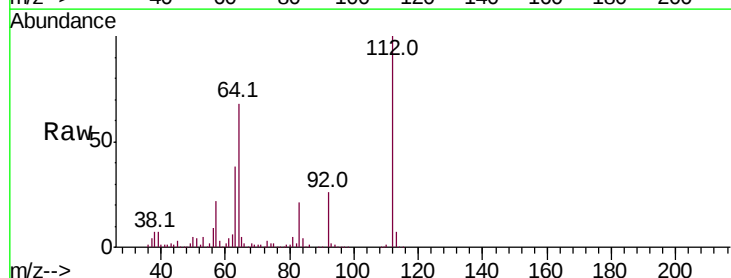
Tgt Ion:112 Resp: 690457

Ion Ratio Lower Upper

112 100

64 68.1 55.4 83.2

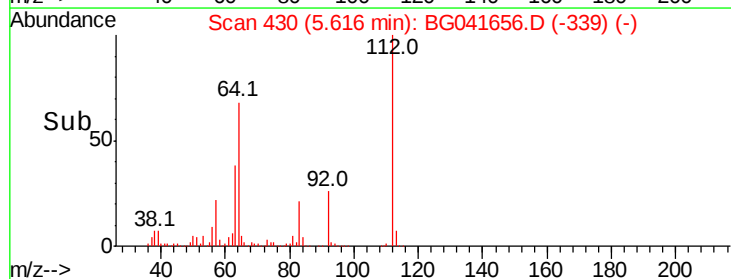
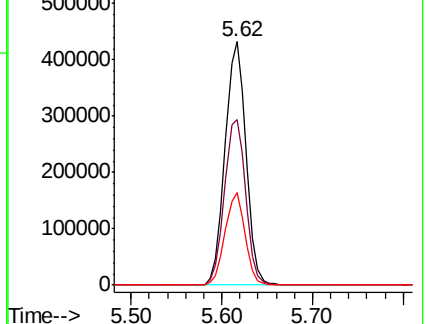
63 37.8 29.1 43.7

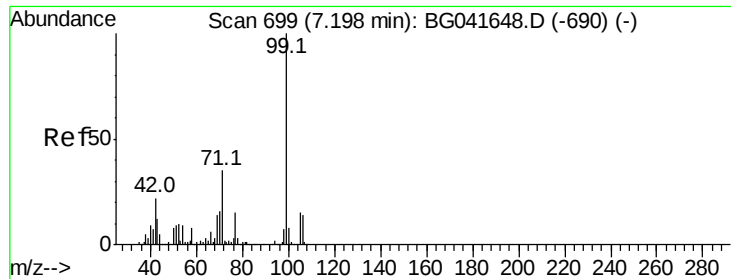


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BG

Ion 63.00 (62.70 to 63.70): BG





#7

Phenol-d6

Concen: 105.422 ng

RT: 7.20 min Scan# 700

Delta R.T. 0.00 min

Lab File: BG041656.D

Acq: 15 Jul 2019 19:33

Instrument :

BNA\_G

ClientSampleId :

COMP-23

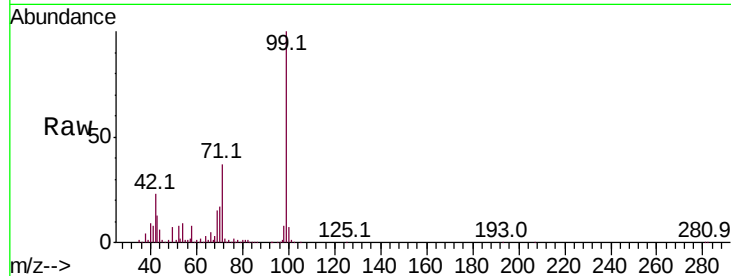
Tot Ion: 99 Resp: 861767

Ion Ratio Lower Upper

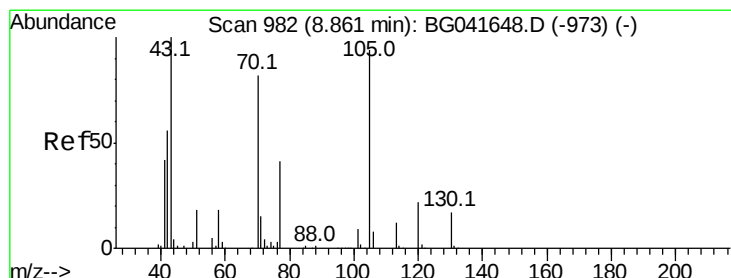
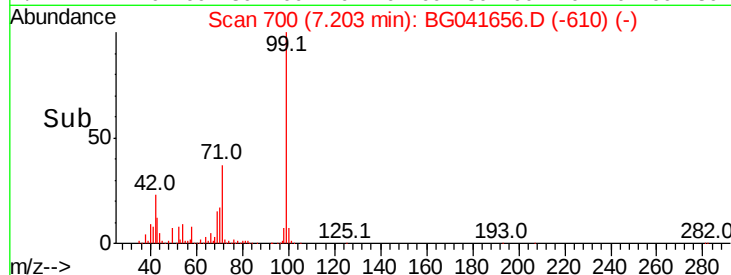
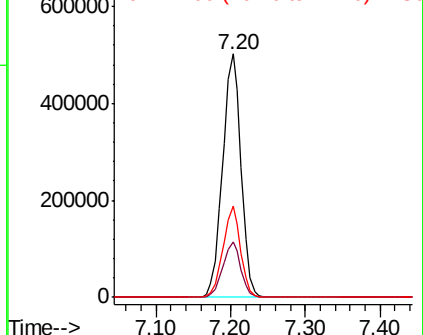
99 100

42 22.7 17.6 26.4

71 37.3 27.8 41.6



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: 15.295 ng

RT: 9.21 min Scan# 1041

Delta R.T. 0.34 min

Lab File: BG041656.D

Acq: 15 Jul 2019 19:33

Tgt Ion: 70 Resp: 91382

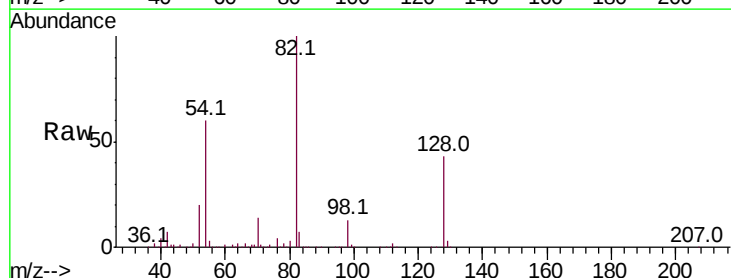
Ion Ratio Lower Upper

70 100

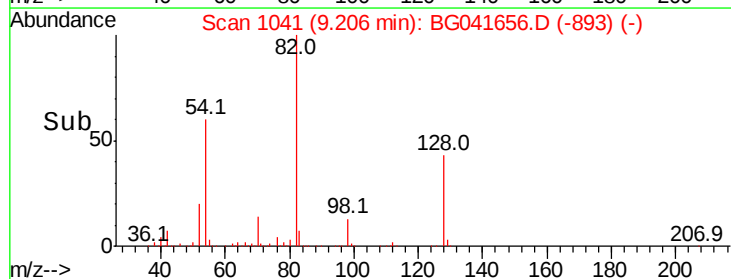
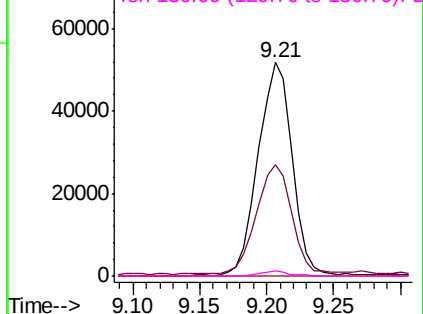
42 52.2 55.8 83.6#

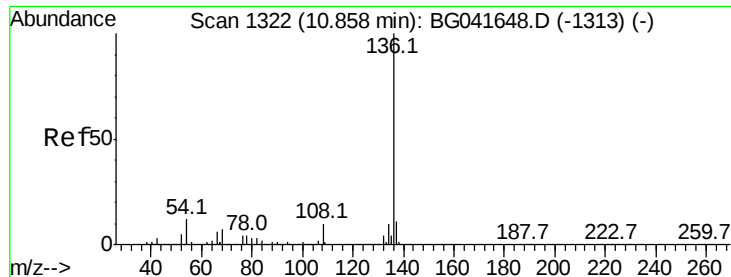
101 0.0 8.1 12.1#

130 2.1 17.3 25.9#



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

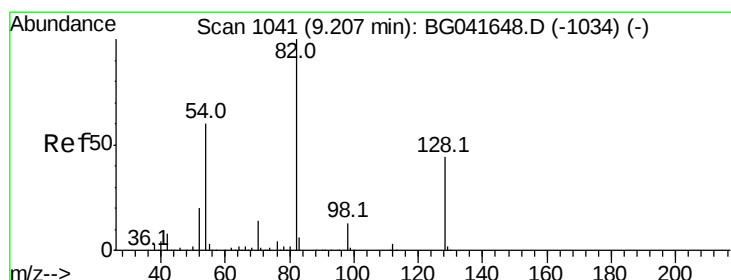
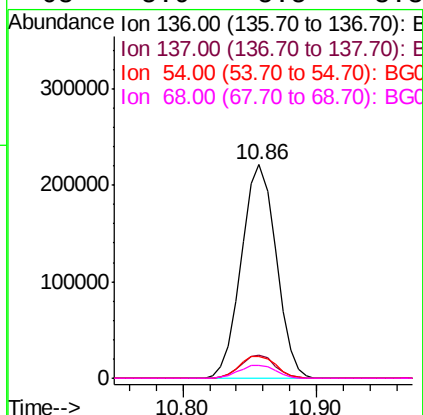
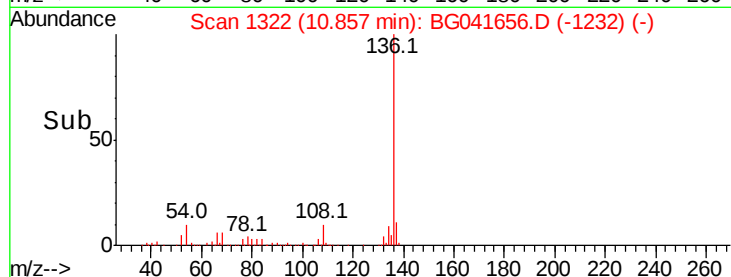
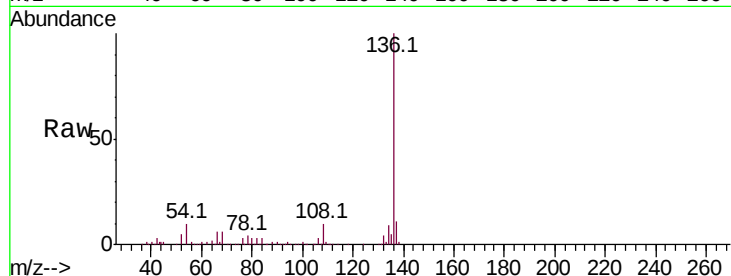




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1322  
Delta R.T. 0.00 min  
Lab File: BG041656.D  
Acq: 15 Jul 2019 19:33

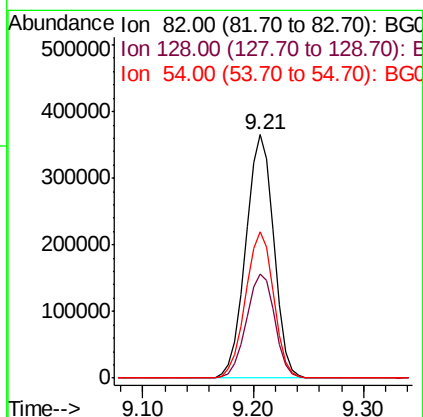
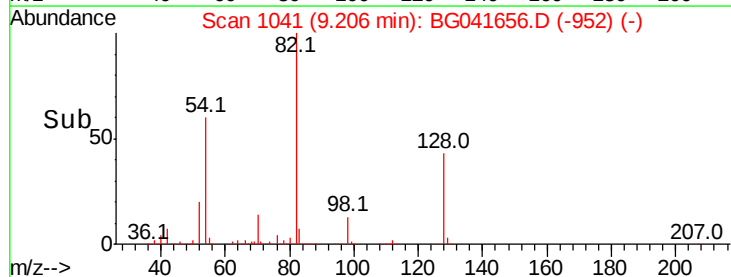
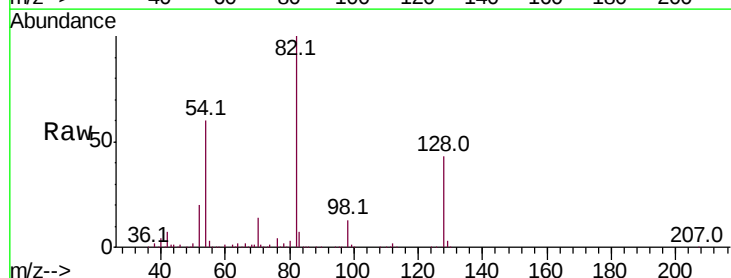
Instrument :  
BNA\_G  
ClientSampleId :  
COMP-23

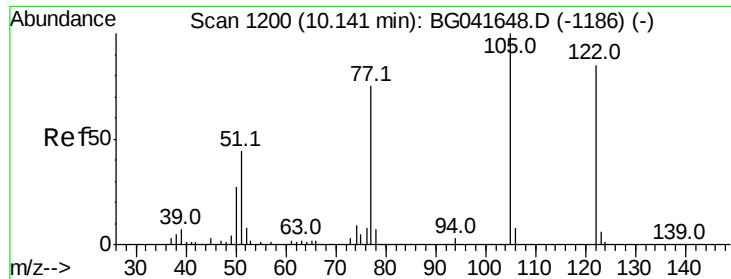
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 399282 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 9.2   | 13.8   |
| 54       | 10.5  | 8.7   | 13.1   |
| 68       | 5.9   | 5.5   | 8.3    |



#23  
Nitrobenzene-d5  
Concen: 99.026 ng  
RT: 9.21 min Scan# 1041  
Delta R.T. -0.01 min  
Lab File: BG041656.D  
Acq: 15 Jul 2019 19:33

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 650154 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.8  | 35.1  | 52.7   |
| 54       | 60.3  | 48.7  | 73.1   |

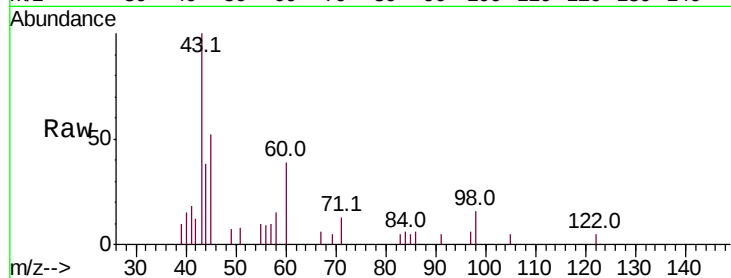




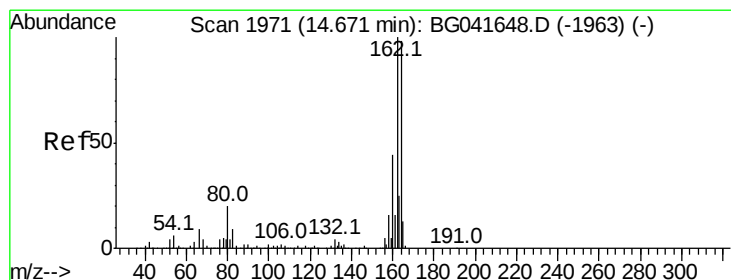
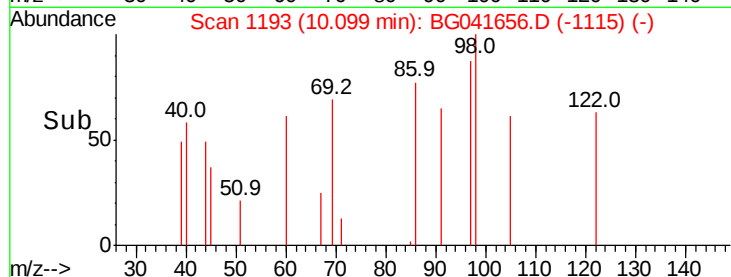
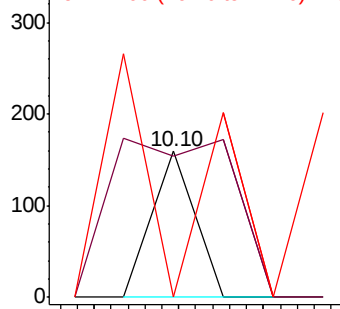
#32  
Benzoic acid  
Concen: 6.023 ng  
RT: 10.10 min Scan# 1193  
Delta R.T. -0.07 min  
Lab File: BG041656.D  
Acq: 15 Jul 2019 19:33

Instrument :  
BNA\_G  
ClientSampleId :  
COMP-23

Tot Ion:122 Resp: 56  
Ion Ratio Lower Upper  
122 100  
105 96.9 101.5 141.5#  
77 0.0 73.0 113.0#

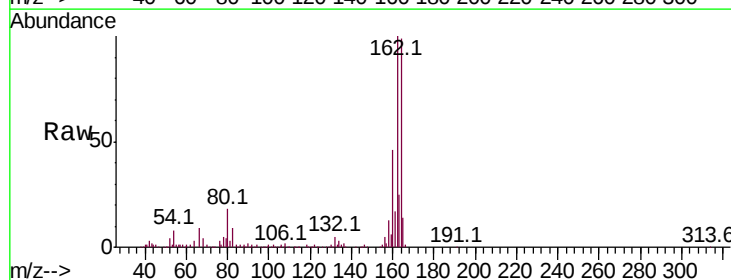


Abundance Ion 122.00 (121.70 to 122.70): E  
Ion 105.00 (104.70 to 105.70): E  
Ion 77.00 (76.70 to 77.70): BGC

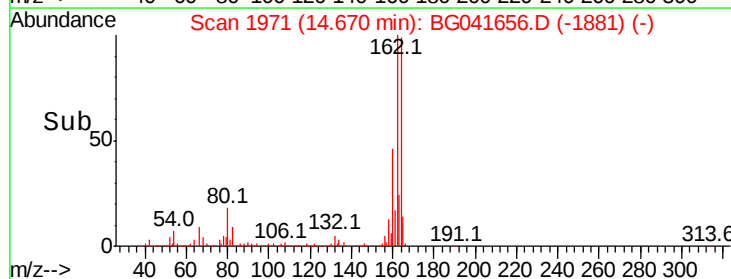
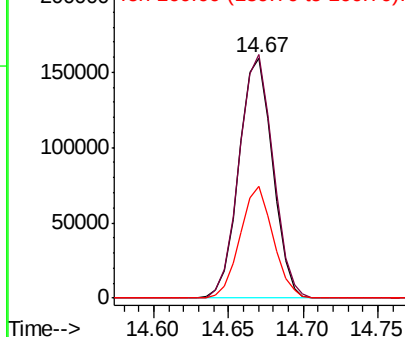


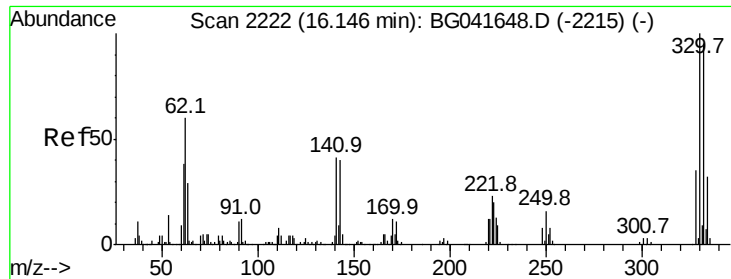
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.67 min Scan# 1971  
Delta R.T. 0.00 min  
Lab File: BG041656.D  
Acq: 15 Jul 2019 19:33

Tgt Ion:164 Resp: 249199  
Ion Ratio Lower Upper  
164 100  
162 101.3 79.6 119.4  
160 46.3 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

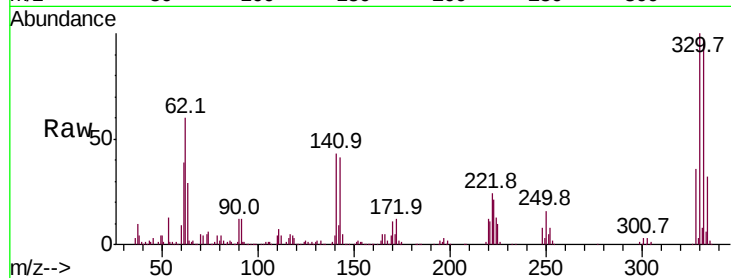




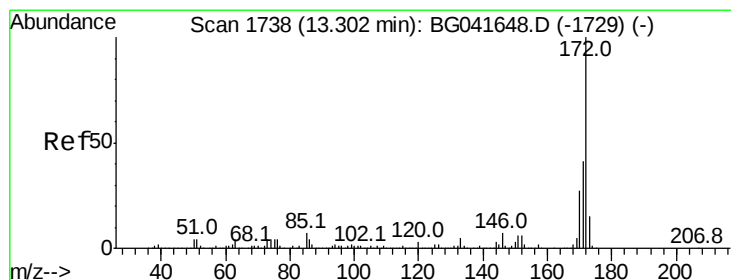
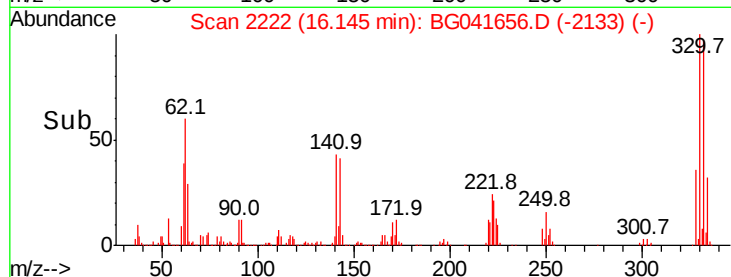
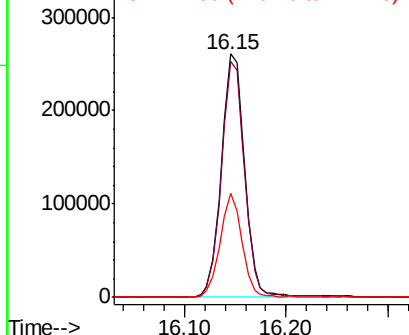
#42  
 2,4,6-Tribromophenol  
 Concen: 148.725 ng  
 RT: 16.15 min Scan# 2222  
 Delta R.T. -0.01 min  
 Lab File: BG041656.D  
 Acq: 15 Jul 2019 19:33

Instrument :  
 BNA\_G  
 ClientSampleId :  
 COMP-23

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.0  | 77.4  | 116.0 |
| 141     | 40.1  | 31.9  | 47.9  |

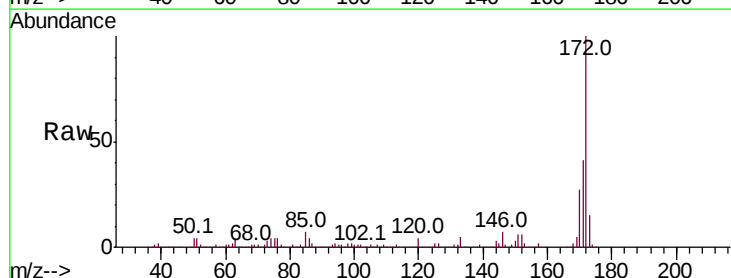


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

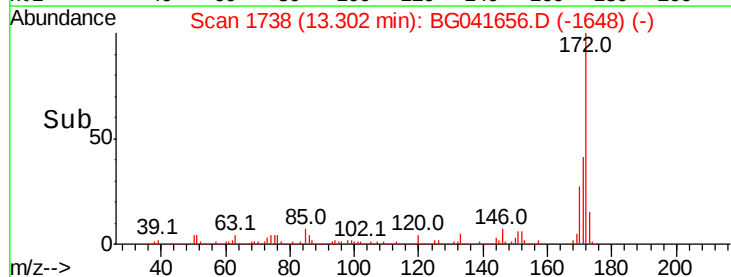
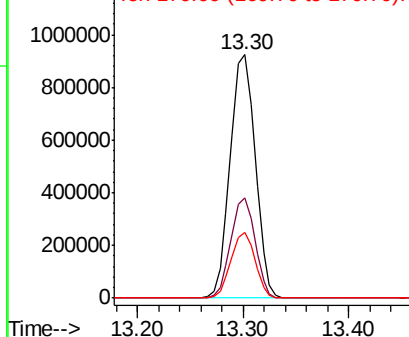


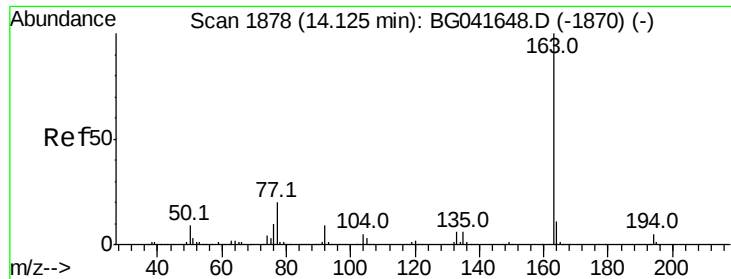
#45  
 2-Fluorobiphenyl  
 Concen: 94.296 ng  
 RT: 13.30 min Scan# 1738  
 Delta R.T. 0.00 min  
 Lab File: BG041656.D  
 Acq: 15 Jul 2019 19:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 41.1  | 35.0  | 52.4  |
| 170     | 27.2  | 23.5  | 35.3  |



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

Dimethylphthalate

Concen: 2.478 ng

RT: 14.12 min Scan# 1877

Delta R.T. -0.01 min

Lab File: BG041656.D

Acq: 15 Jul 2019 19:33

Instrument :

BNA\_G

ClientSampleId :

COMP-23

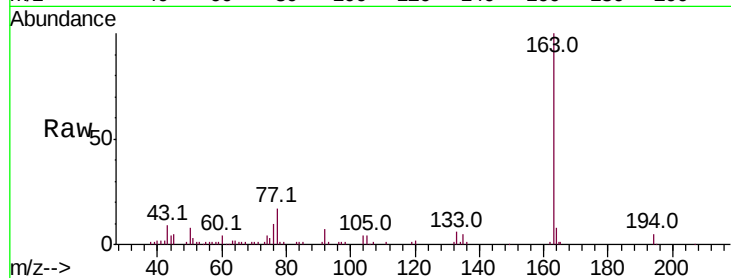
Tot Ion:163 Resp: 48499

Ion Ratio Lower Upper

163 100

194 4.8 4.2 6.2

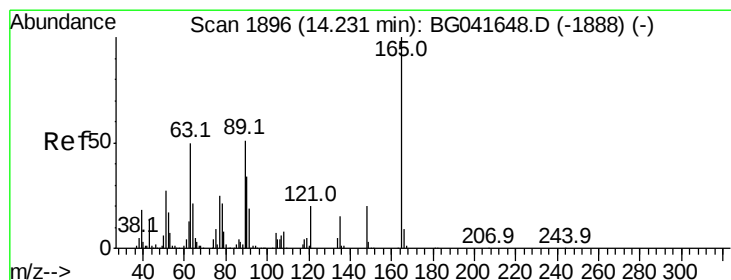
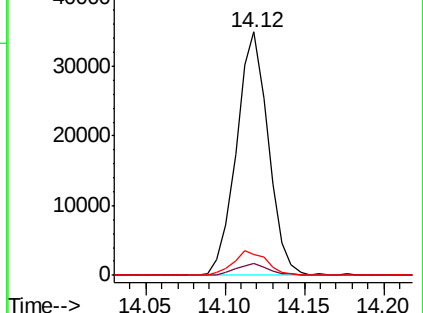
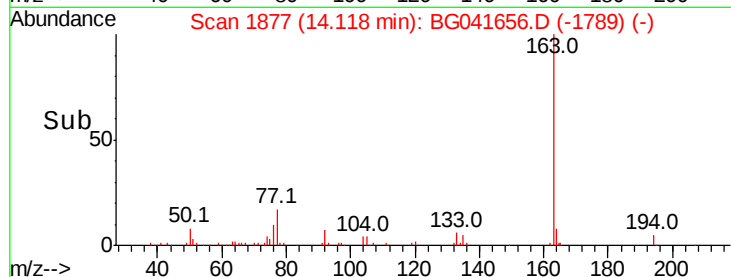
164 9.1 9.4 14.2#



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51

2,6-Dinitrotoluene

Concen: 8.219 ng

RT: 14.67 min Scan# 1971

Delta R.T. 0.44 min

Lab File: BG041656.D

Acq: 15 Jul 2019 19:33

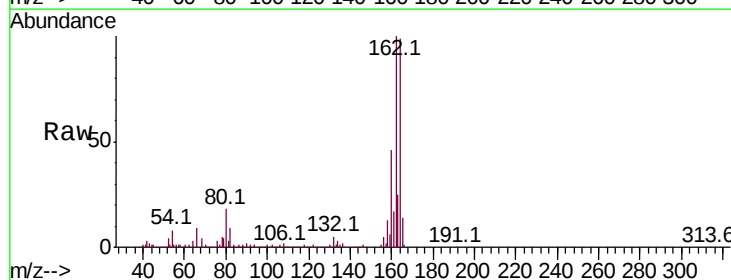
Tgt Ion:165 Resp: 34120

Ion Ratio Lower Upper

165 100

63 0.0 42.4 63.6#

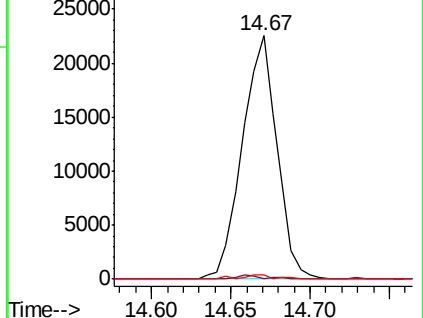
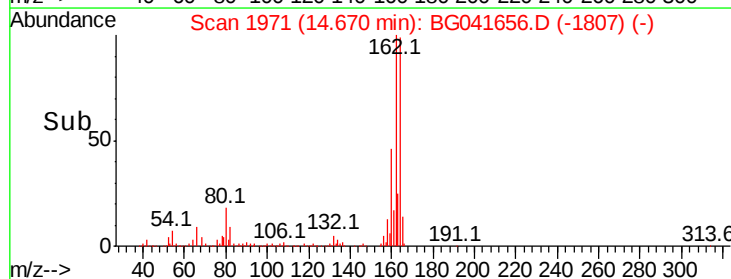
89 1.6 42.1 63.1#

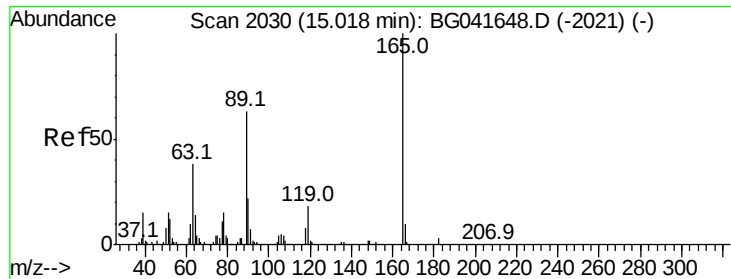


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC

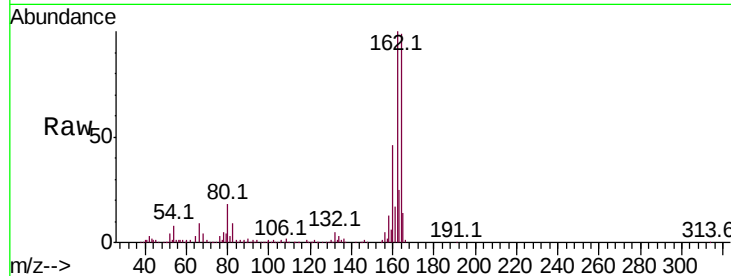




#57  
 2,4-Dinitrotoluene  
 Concen: 6.218 ng  
 RT: 14.67 min Scan# 1971  
 Delta R.T. -0.35 min  
 Lab File: BG041656.D  
 Acq: 15 Jul 2019 19:33

Instrument :  
 BNA\_G  
 ClientSampleId :  
 COMP-23

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 31.7  | 47.5# |
| 89      | 1.6   | 50.2  | 75.4# |
| 182     | 0.0   | 2.6   | 4.0#  |

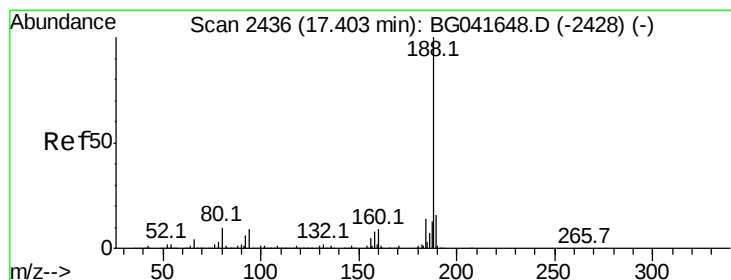
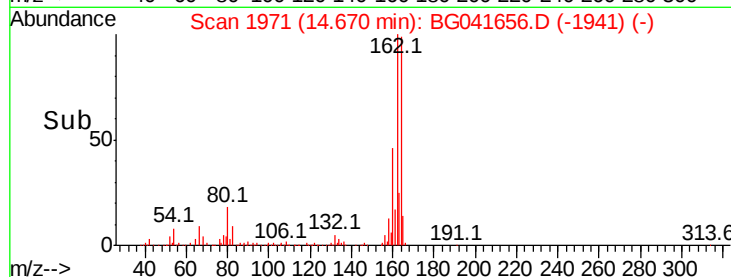
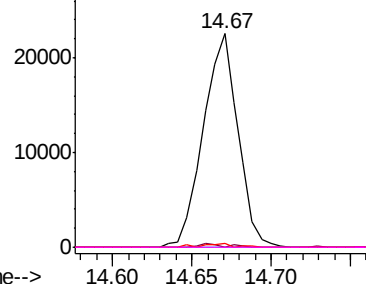


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

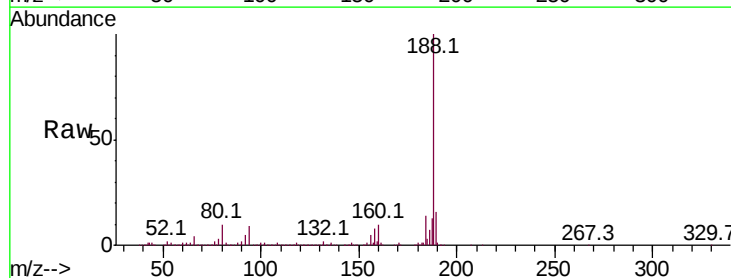
Ion 89.00 (88.70 to 89.70): BGC

Ion 182.00 (181.70 to 182.70): E



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.40 min Scan# 2436  
 Delta R.T. -0.01 min  
 Lab File: BG041656.D  
 Acq: 15 Jul 2019 19:33

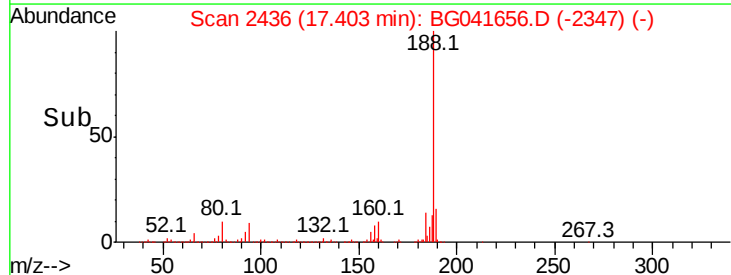
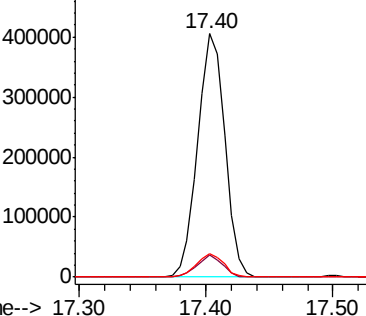
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.4   | 6.9   | 10.3  |
| 80      | 9.6   | 8.0   | 12.0  |

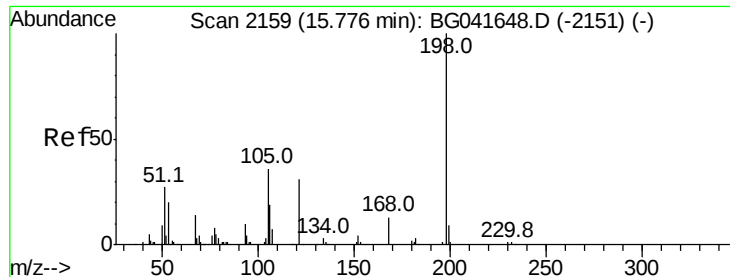


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC





#65

4,6-Dinitro-2-methylphenol

Concen: 7.066 ng

RT: 16.15 min Scan# 2222

Delta R.T. 0.37 min

Lab File: BG041656.D

Acq: 15 Jul 2019 19:33

Instrument :

BNA\_G

ClientSampled :

COMP-23

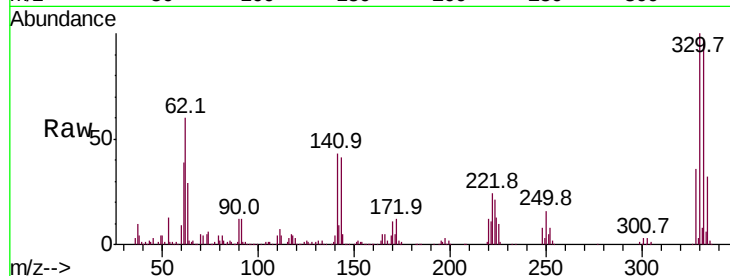
Tot Ion:198 Resp: 1302

Ion Ratio Lower Upper

198 100

51 189.6 22.3 62.3#

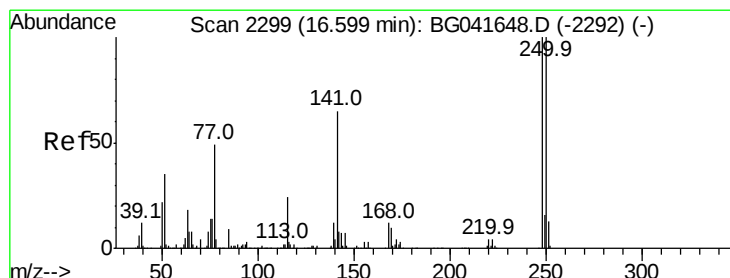
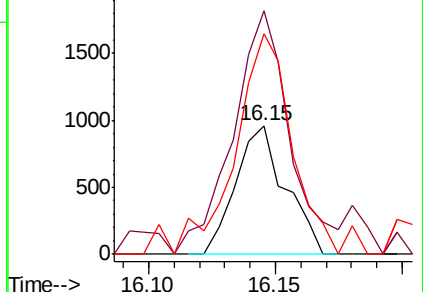
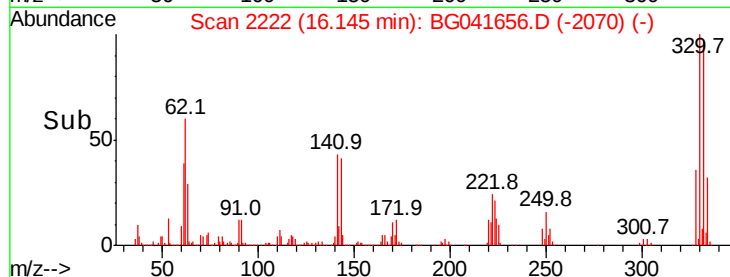
105 172.1 18.0 58.0#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BG0

Ion 105.00 (104.70 to 105.70): E



#67

4-Bromophenyl-phenylether

Concen: 4.637 ng

RT: 16.15 min Scan# 2222

Delta R.T. -0.46 min

Lab File: BG041656.D

Acq: 15 Jul 2019 19:33

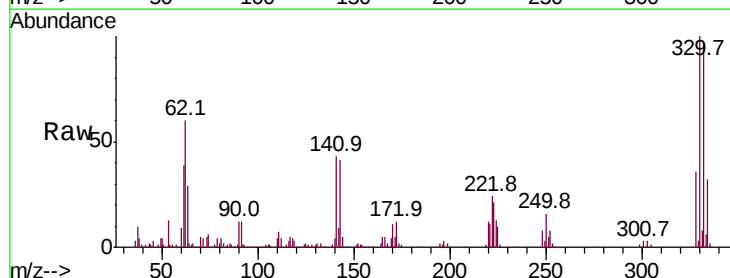
Tgt Ion:248 Resp: 33236

Ion Ratio Lower Upper

248 100

250 201.8 78.1 117.1#

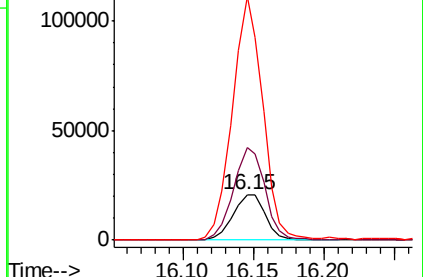
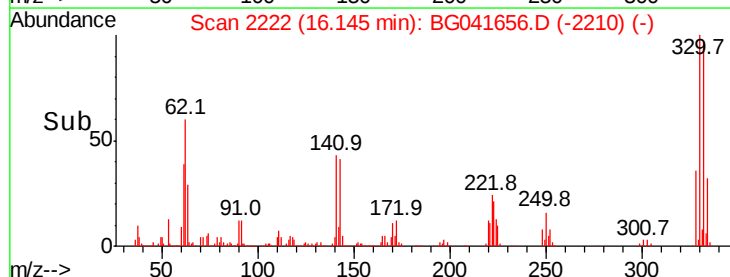
141 532.7 49.6 74.4#

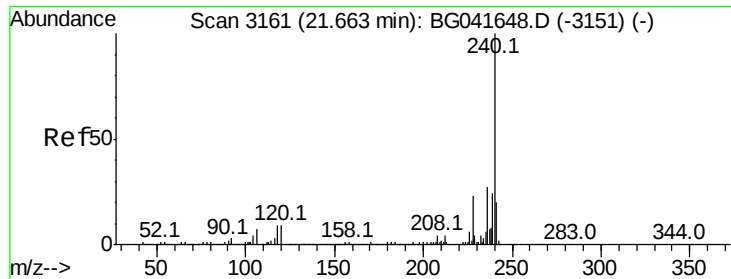


Abundance Ion 248.00 (247.70 to 248.70): E

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: 21.66 min Scan# 3160

Delta R.T. -0.01 min

Lab File: BG041656.D

Acq: 15 Jul 2019 19:33

Instrument :

BNA\_G

ClientSampleId :

COMP-23

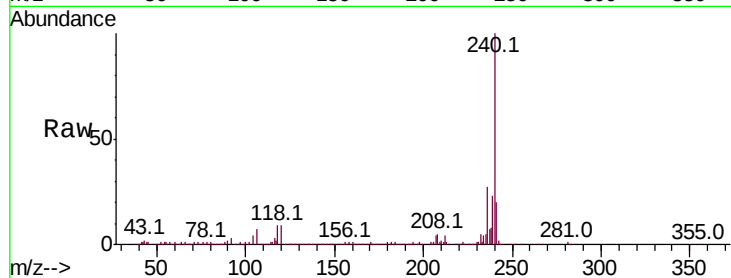
Tot Ion:240 Resp: 584759

Ion Ratio Lower Upper

240 100

120 9.1 8.0 12.0

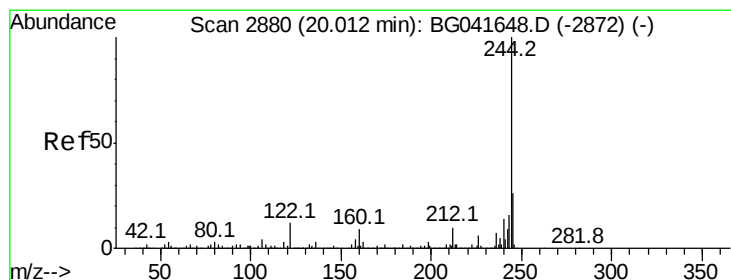
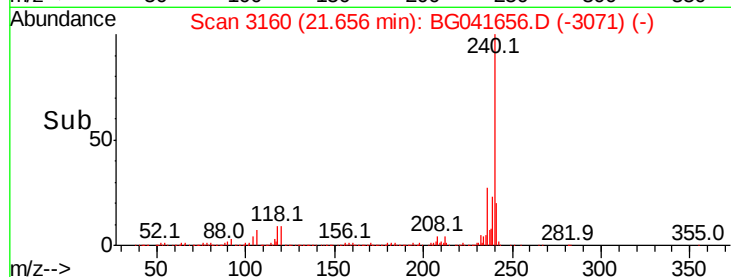
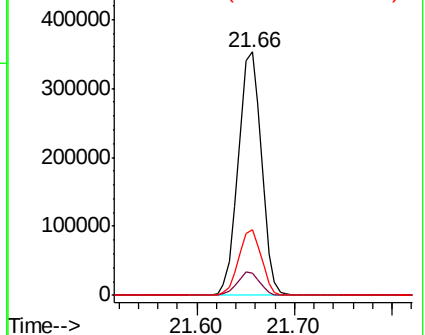
236 27.2 22.6 33.8



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



#79

Terphenyl-d14

Concen: 92.164 ng

RT: 20.01 min Scan# 2880

Delta R.T. 0.00 min

Lab File: BG041656.D

Acq: 15 Jul 2019 19:33

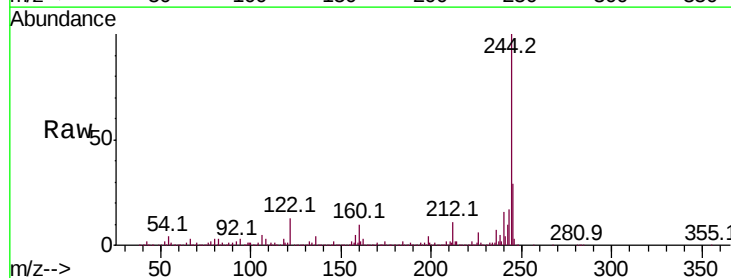
Tgt Ion:244 Resp: 2306227

Ion Ratio Lower Upper

244 100

212 10.7 9.7 14.5

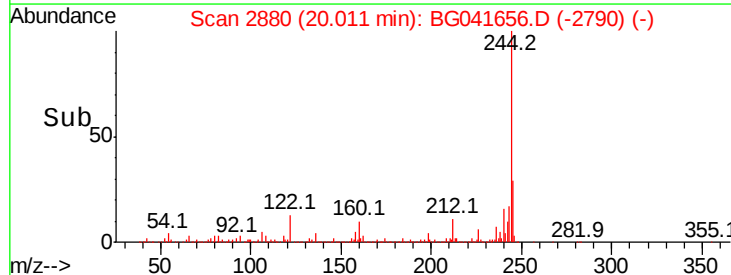
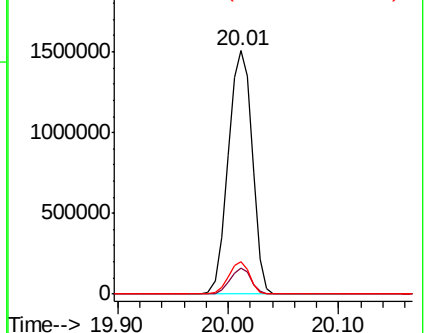
122 13.4 12.5 18.7

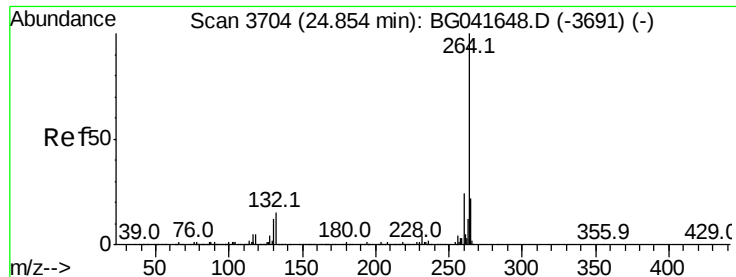


Abundance Ion 244.00 (243.70 to 244.70): E

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: 24.85 min Scan# 3704  
Delta R.T. -0.01 min  
Lab File: BG041656.D  
Acq: 15 Jul 2019 19:33

Instrument :  
BNA\_G  
ClientSampleId :  
COMP-23

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.7  | 19.5  | 29.3  |
| 265     | 22.0  | 18.0  | 27.0  |

