

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG071719\  
 Data File : BG041696.D  
 Acq On : 17 Jul 2019 20:21  
 Operator : HP/JU  
 Sample : K3835-02  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Jul 18 07:11:28 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  | 96681    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.85 | 136  | 388545   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.66 | 164  | 241233   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.40 | 188  | 624577   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.65 | 240  | 651249   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 24.85 | 264  | 740921   | 20.00 | ng    | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.61  | 112  | 718423   | 121.48 | ng    | 0.00     |
| 7) Phenol-d6                | 7.20  | 99   | 991770   | 124.68 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.20  | 82   | 603817   | 94.51  | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 16.14 | 330  | 430740   | 158.44 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.29 | 172  | 1372083  | 88.08  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.00 | 244  | 2200785  | 78.97  | ng    | 0.00     |

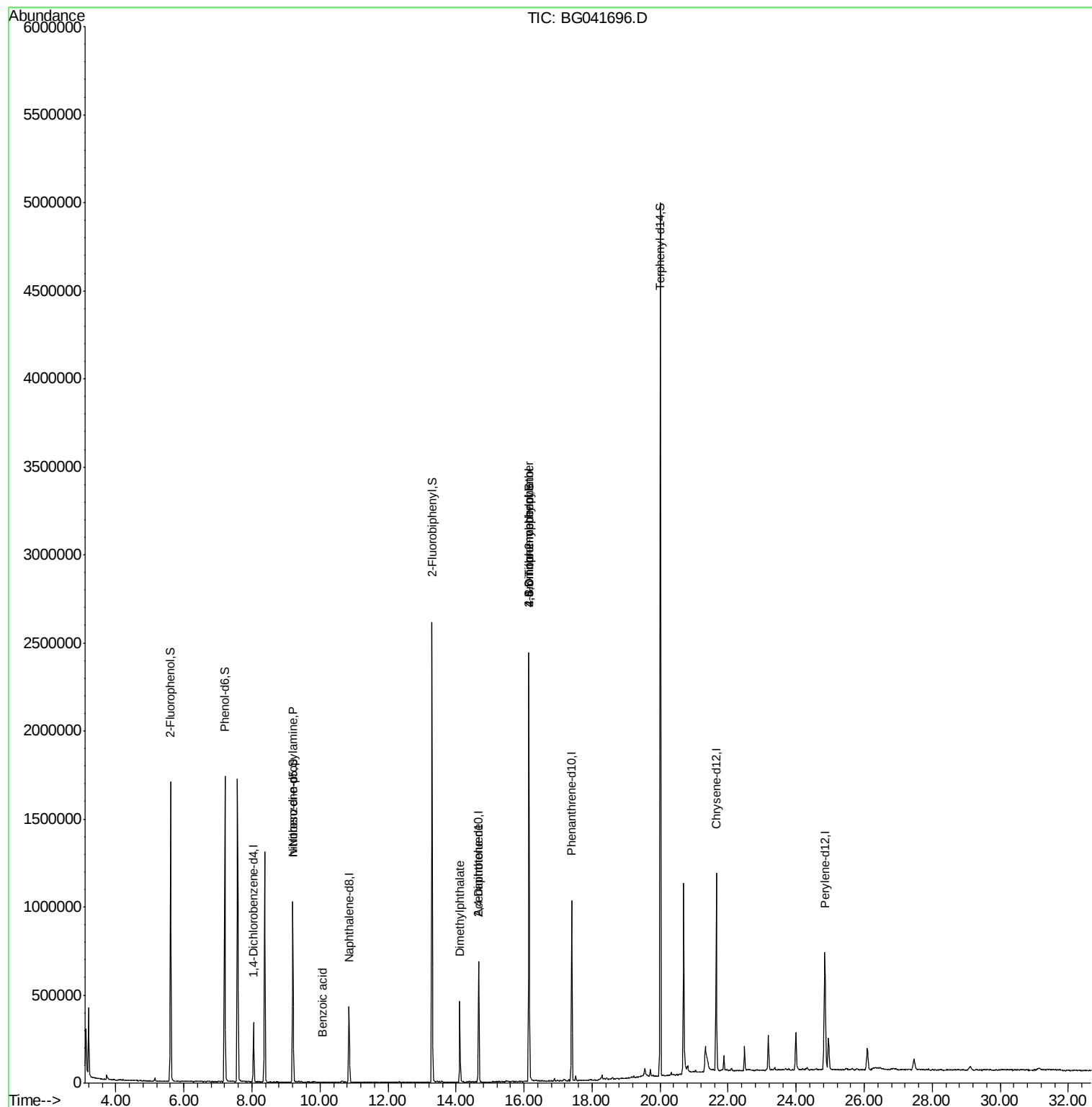
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 7.20  | 77   | 1756     | Below Cal | #     | 3      |
| 19) n-Nitroso-di-n-propylamine | 9.20  | 70   | 82785    | 14.238    | ng    | # 70   |
| 32) Benzoic acid               | 10.07 | 122  | 67       | 6.026     | ng    | # 40   |
| 50) Dimethylphthalate          | 14.11 | 163  | 319521   | 16.865    | ng    | # 97   |
| 57) 2,4-Dinitrotoluene         | 14.66 | 165  | 32283    | 6.077     | ng    | # 29   |
| 65) 4,6-Dinitro-2-methylphenol | 16.14 | 198  | 1560     | 7.127     | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 16.14 | 248  | 34456    | 4.636     | ng    | # 1    |
| 77) Benzidine                  | 20.00 | 184  | 39590    | Below Cal | #     | 91     |

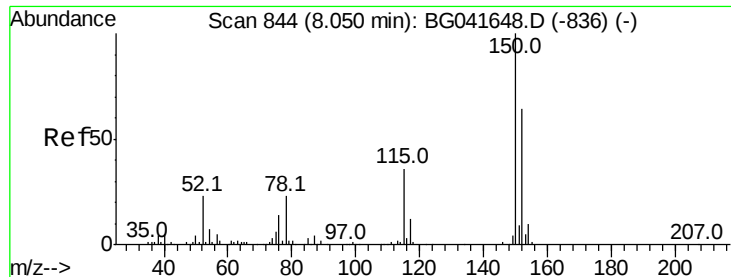
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : K3835-02  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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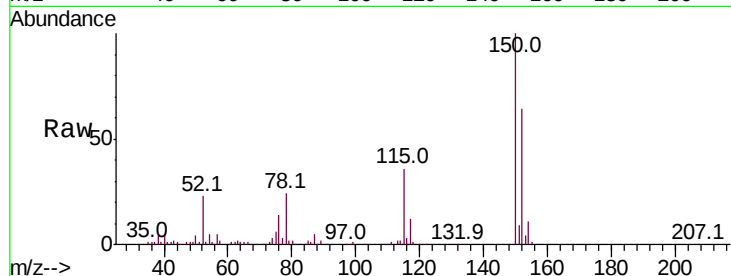


#1

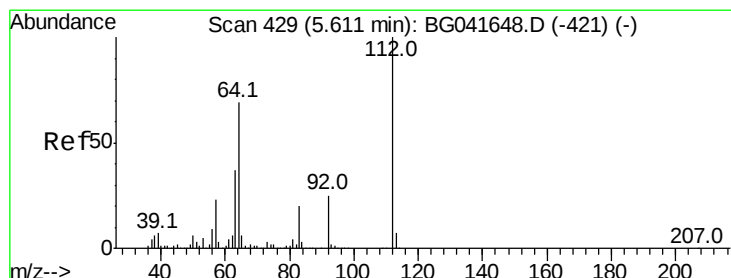
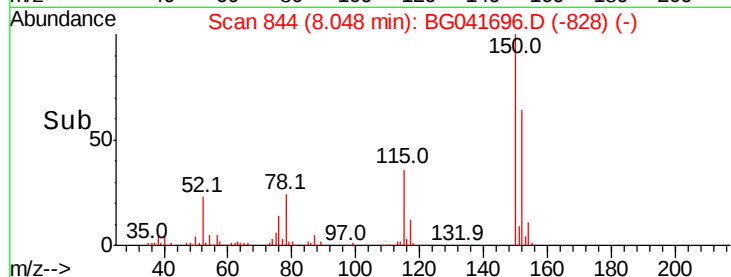
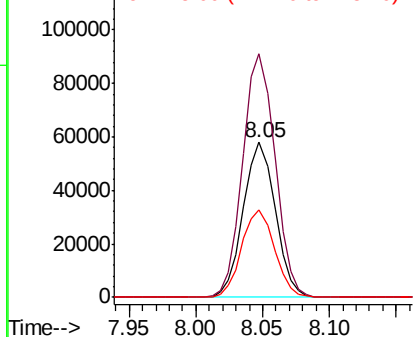
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.05 min Scan# 844  
Delta R.T. -0.01 min  
Lab File: BG041696.D  
Acq: 17 Jul 2019 20:21

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 96681  
Ion Ratio Lower Upper  
152 100  
150 157.1 126.9 190.3  
115 56.8 45.0 67.6



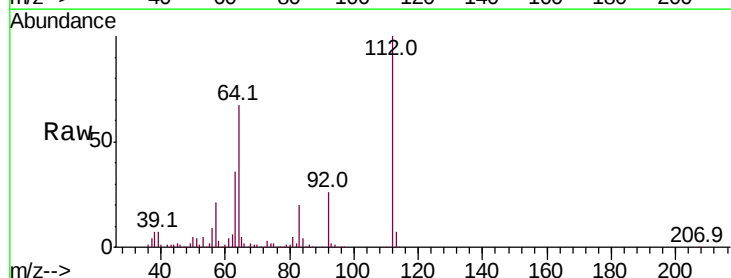
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



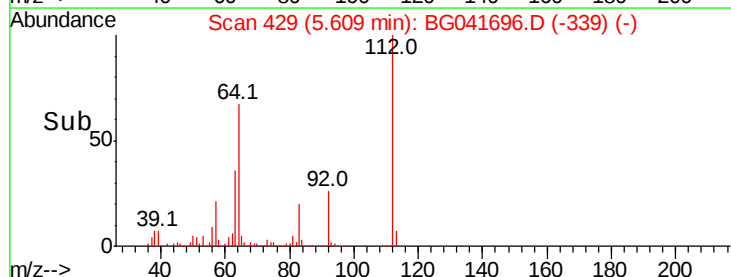
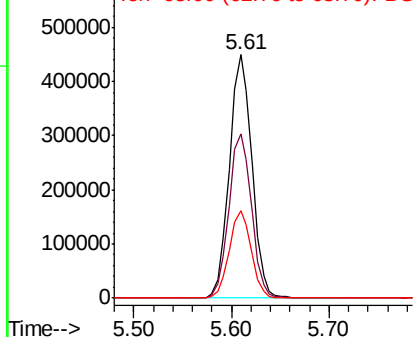
#5

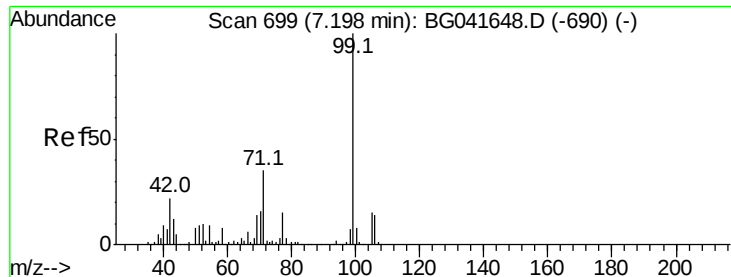
2-Fluorophenol  
Concen: 121.476 ng  
RT: 5.61 min Scan# 429  
Delta R.T. -0.00 min  
Lab File: BG041696.D  
Acq: 17 Jul 2019 20:21

Tgt Ion:112 Resp: 718423  
Ion Ratio Lower Upper  
112 100  
64 67.4 55.4 83.2  
63 36.1 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: 124.677 ng

RT: 7.20 min Scan# 700

Delta R.T. -0.00 min

Lab File: BG041696.D

Acq: 17 Jul 2019 20:21

Instrument :

BNA\_G

ClientSampleId :

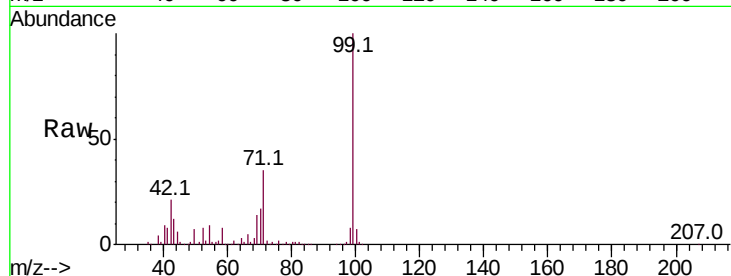
Tot Ion: 99 Resp: 991770

Ion Ratio Lower Upper

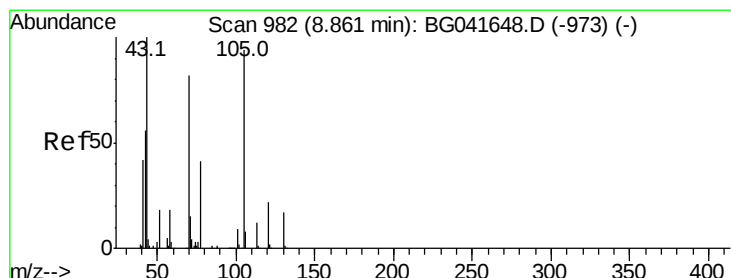
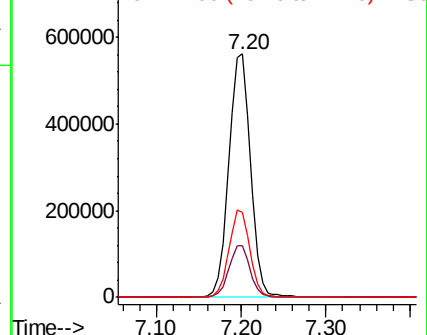
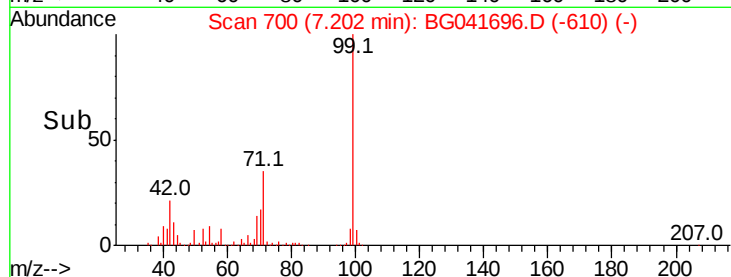
99 100

42 21.3 17.6 26.4

71 35.0 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: 14.238 ng

RT: 9.20 min Scan# 1040

Delta R.T. 0.33 min

Lab File: BG041696.D

Acq: 17 Jul 2019 20:21

Tgt Ion: 70 Resp: 82785

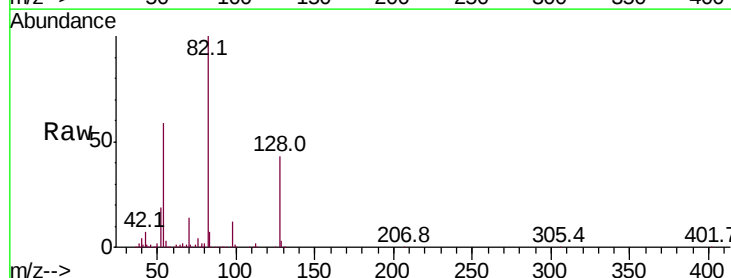
Ion Ratio Lower Upper

70 100

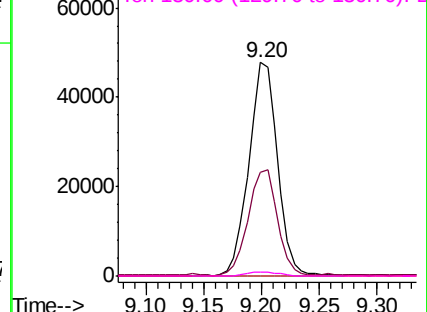
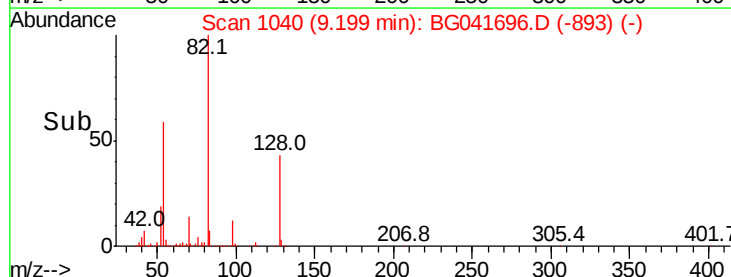
42 48.4 55.8 83.6#

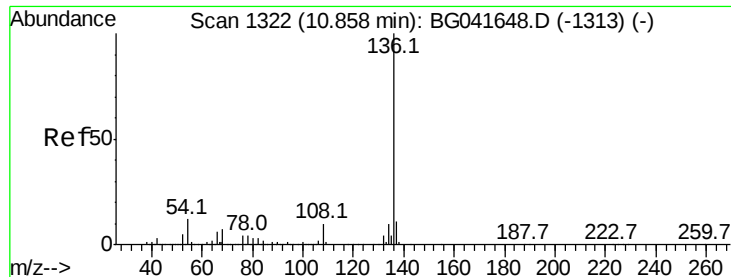
101 0.0 8.1 12.1#

130 1.9 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

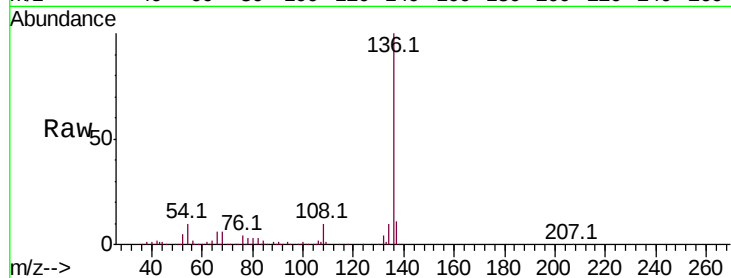




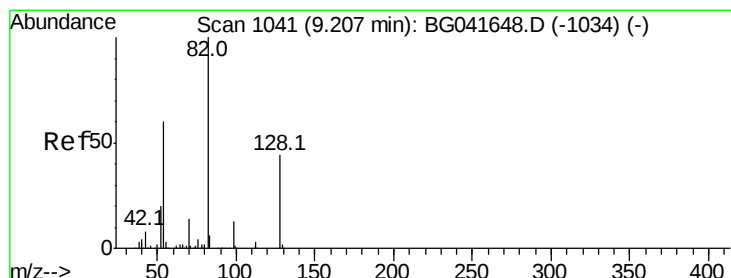
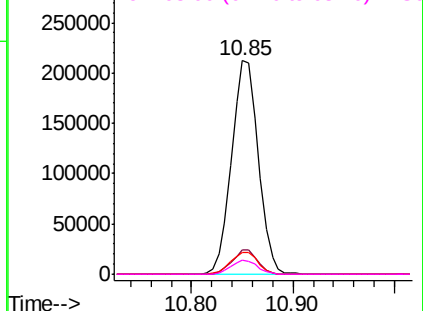
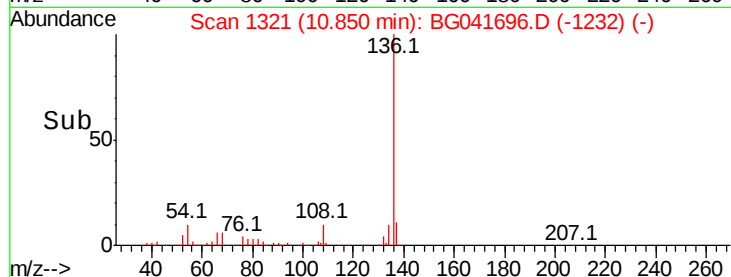
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.85 min Scan# 1321  
Delta R.T. -0.01 min  
Lab File: BG041696.D  
Acq: 17 Jul 2019 20:21

Instrument :  
BNA\_G  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 388545 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 9.2   | 13.8   |
| 54       | 10.3  | 8.7   | 13.1   |
| 68       | 6.4   | 5.5   | 8.3    |

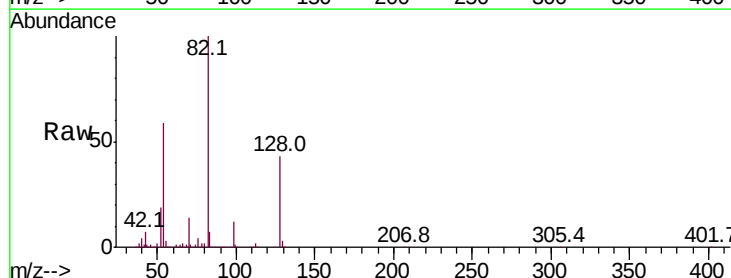


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

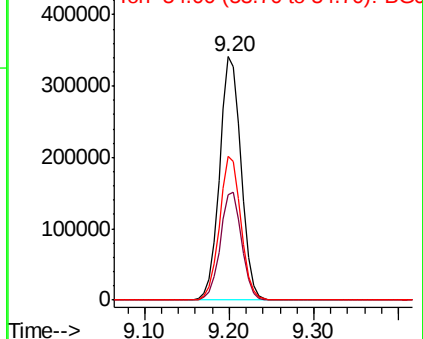
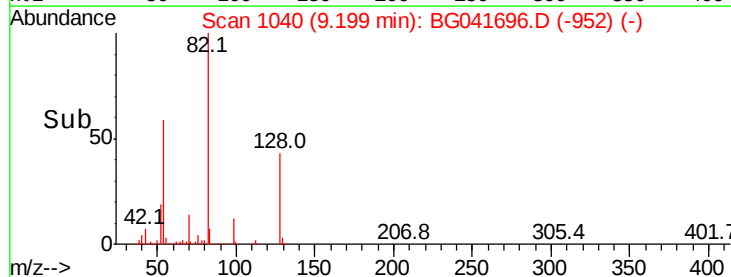


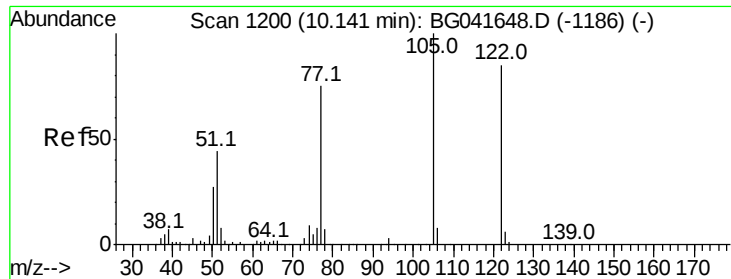
#23  
Nitrobenzene-d5  
Concen: 94.509 ng  
RT: 9.20 min Scan# 1040  
Delta R.T. -0.01 min  
Lab File: BG041696.D  
Acq: 17 Jul 2019 20:21

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 603817 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 43.3  | 35.1  | 52.7   |
| 54       | 59.2  | 48.7  | 73.1   |



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

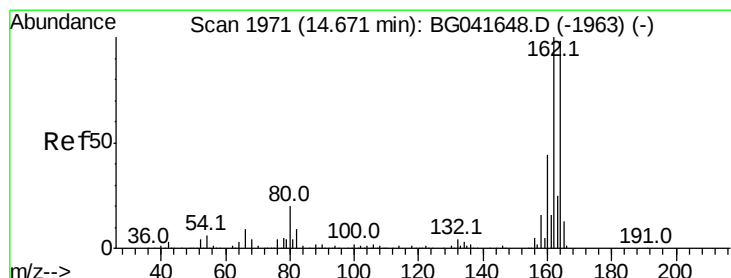
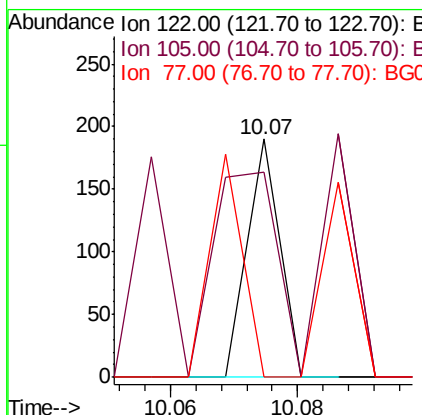
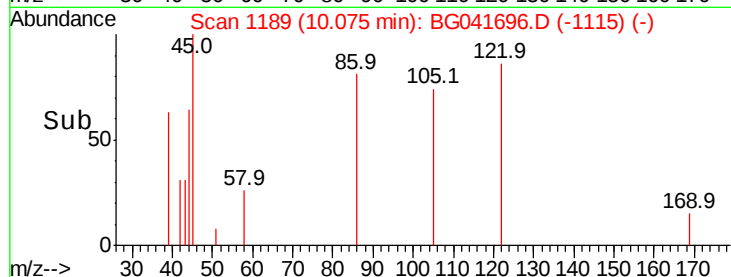
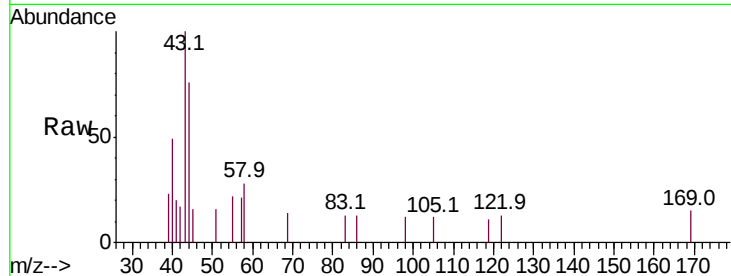




#32  
Benzoic acid  
Concen: 6.026 ng  
RT: 10.07 min Scan# 1189  
Delta R.T. -0.09 min  
Lab File: BG041696.D  
Acq: 17 Jul 2019 20:21

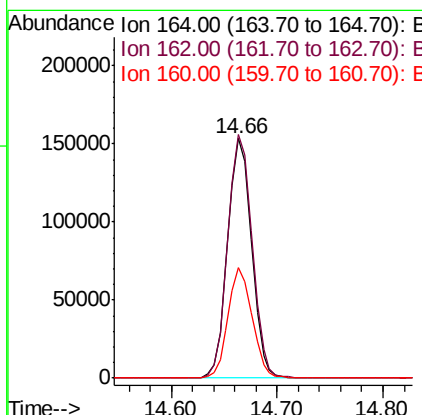
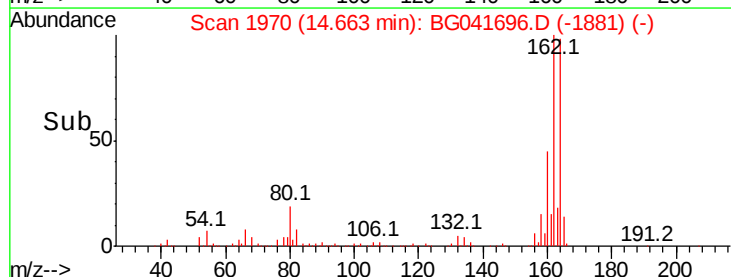
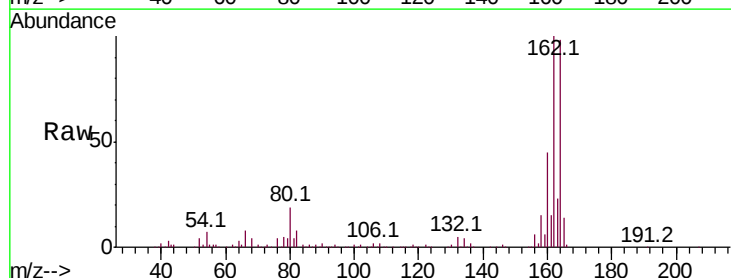
Instrument :  
BNA\_G  
ClientSampled :

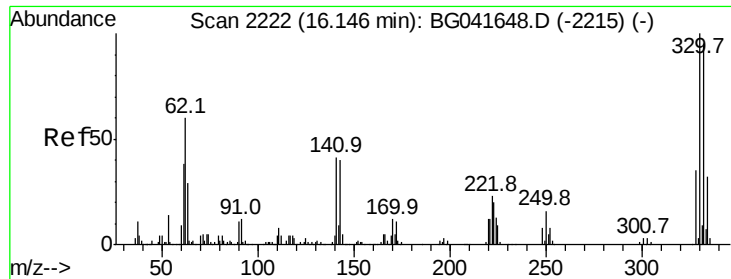
Tot Ion:122 Resp: 67  
Ion Ratio Lower Upper  
122 100  
105 86.3 101.5 141.5#  
77 0.0 73.0 113.0#



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.66 min Scan# 1970  
Delta R.T. -0.01 min  
Lab File: BG041696.D  
Acq: 17 Jul 2019 20:21

Tgt Ion:164 Resp: 241233  
Ion Ratio Lower Upper  
164 100  
162 101.6 79.6 119.4  
160 46.0 35.4 53.0

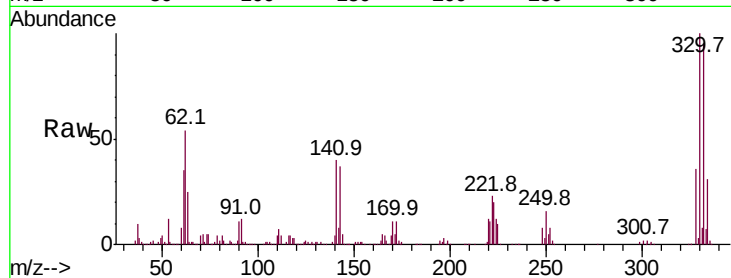




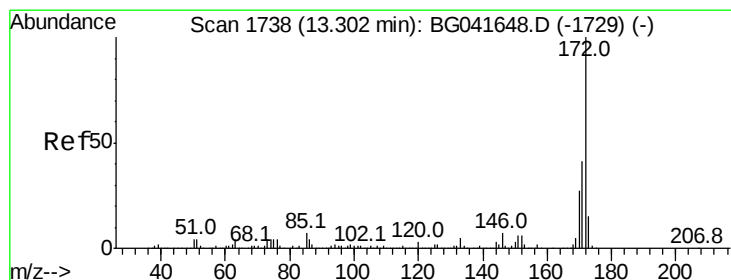
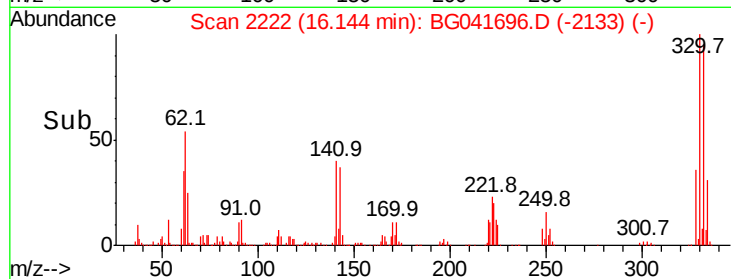
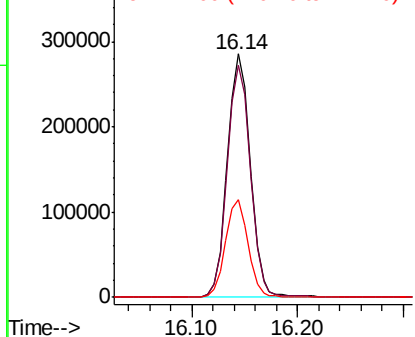
#42  
 2,4,6-Tribromophenol  
 Concen: 158.439 ng  
 RT: 16.14 min Scan# 2222  
 Delta R.T. -0.01 min  
 Lab File: BG041696.D  
 Acq: 17 Jul 2019 20:21

Instrument :  
 BNA\_G  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.2  | 77.4  | 116.0 |
| 141     | 39.9  | 31.9  | 47.9  |

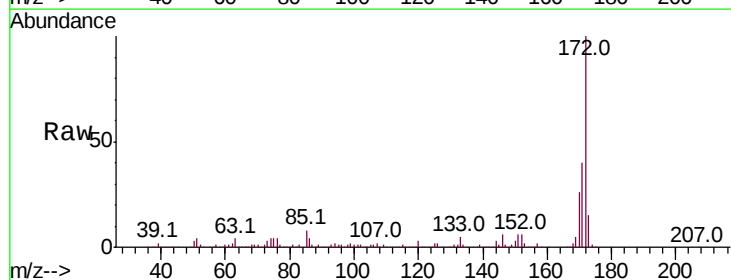


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

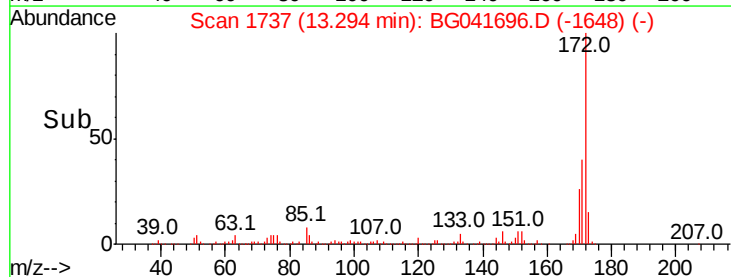
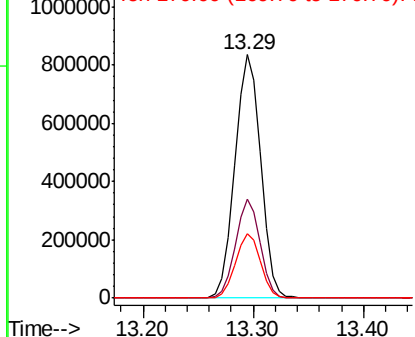


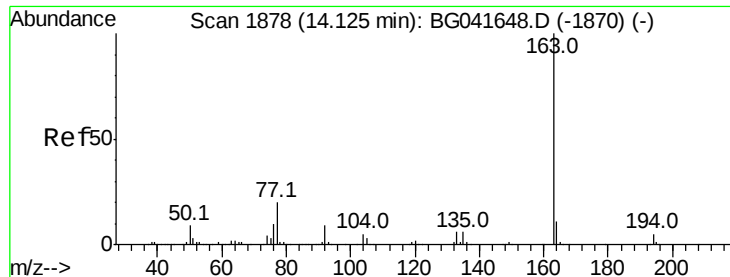
#45  
 2-Fluorobiphenyl  
 Concen: 88.075 ng  
 RT: 13.29 min Scan# 1737  
 Delta R.T. -0.01 min  
 Lab File: BG041696.D  
 Acq: 17 Jul 2019 20:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 40.4  | 35.0  | 52.4  |
| 170     | 26.5  | 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: 16.865 ng

RT: 14.11 min Scan# 1876

Delta R.T. -0.02 min

Lab File: BG041696.D

Acq: 17 Jul 2019 20:21

Instrument :

BNA\_G

ClientSampled :

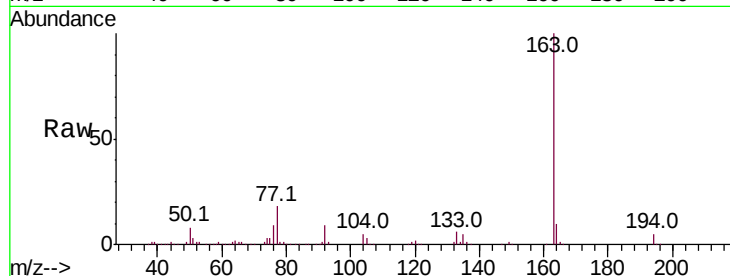
Tot Ion:163 Resp: 319521

Ion Ratio Lower Upper

163 100

194 4.7 4.2 6.2

164 10.3 9.4 14.2

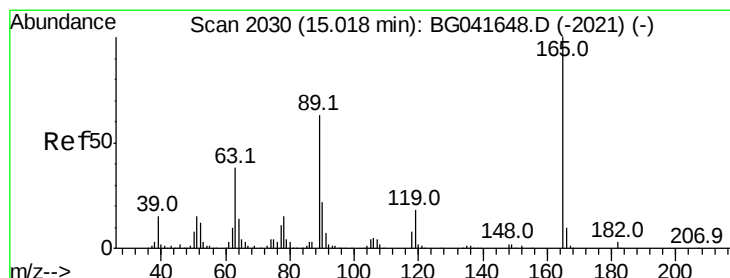
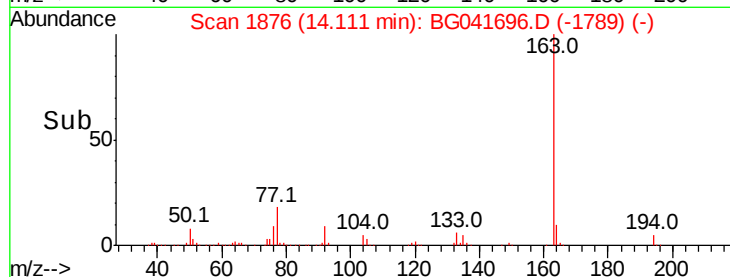
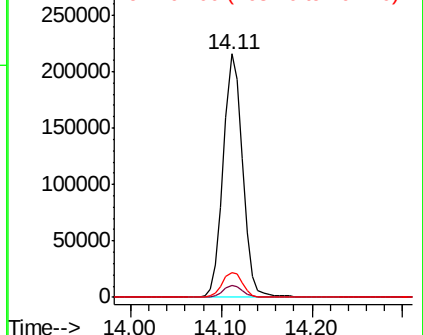


Abundance

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



#57

2,4-Dinitrotoluene

Concen: 6.077 ng

RT: 14.66 min Scan# 1970

Delta R.T. -0.36 min

Lab File: BG041696.D

Acq: 17 Jul 2019 20:21

Tgt Ion:165 Resp: 32283

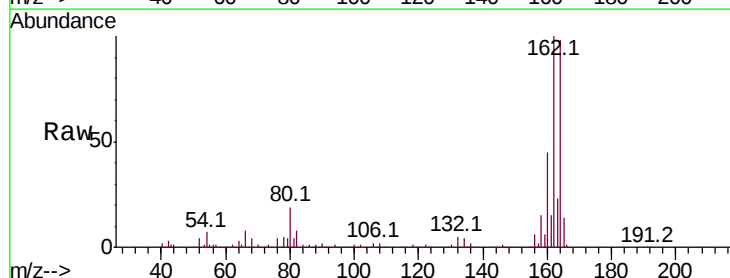
Ion Ratio Lower Upper

165 100

63 1.0 31.7 47.5#

89 1.6 50.2 75.4#

182 0.0 2.6 4.0#



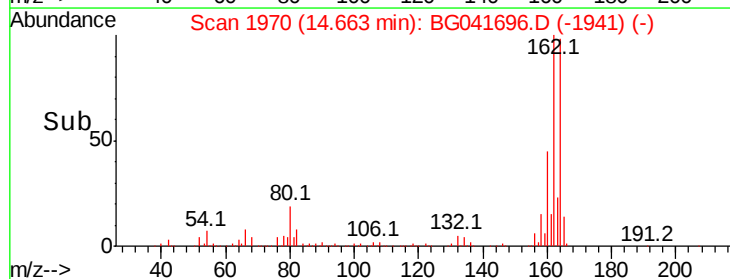
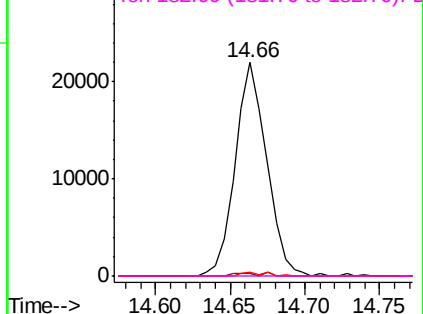
Abundance

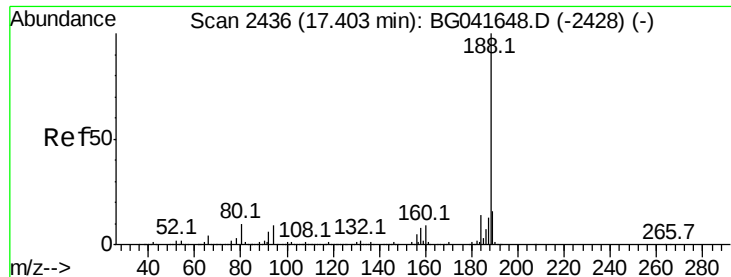
Ion 165.00 (164.70 to 165.70): E

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

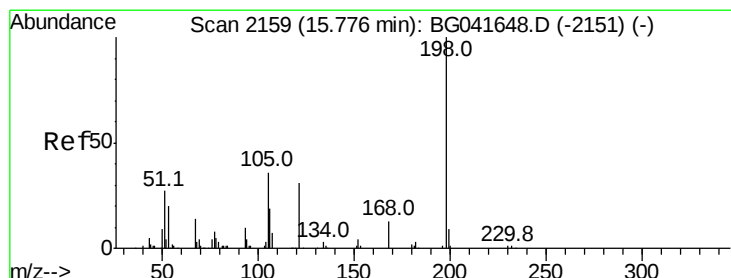
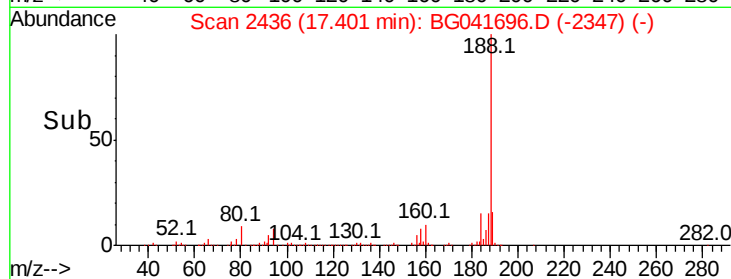
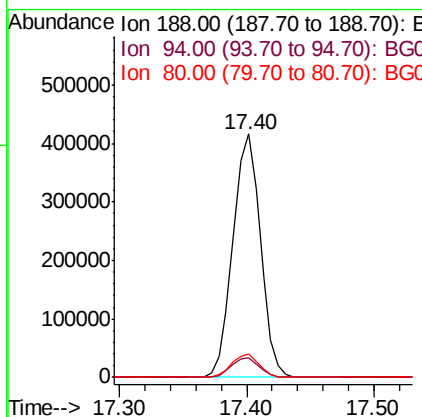
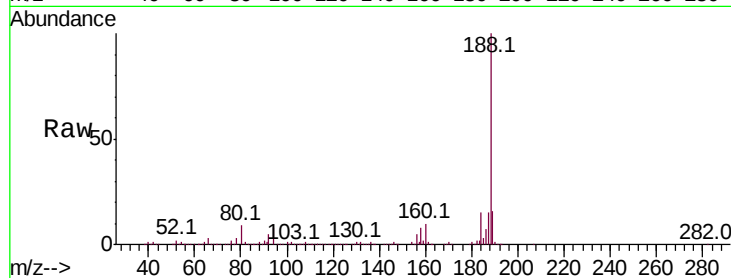




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.40 min Scan# 2436  
Delta R.T. -0.01 min  
Lab File: BG041696.D  
Acq: 17 Jul 2019 20:21

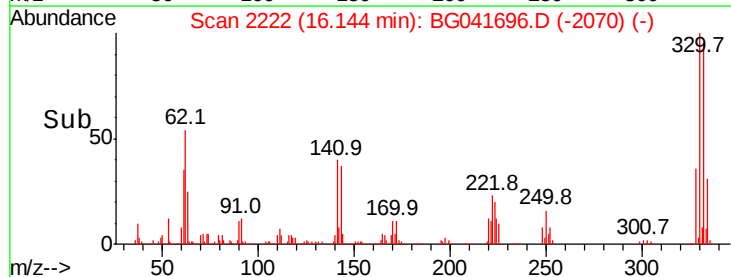
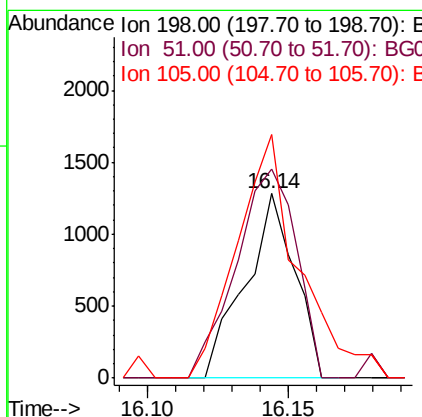
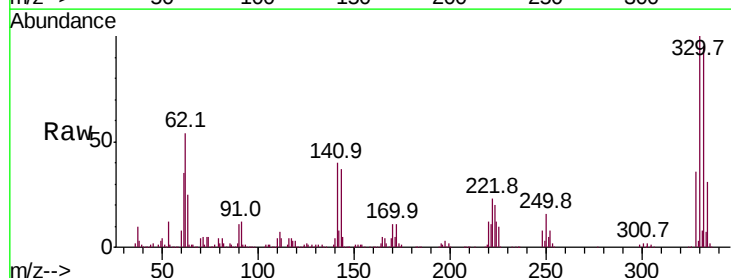
Instrument :  
BNA\_G  
ClientSampleId :

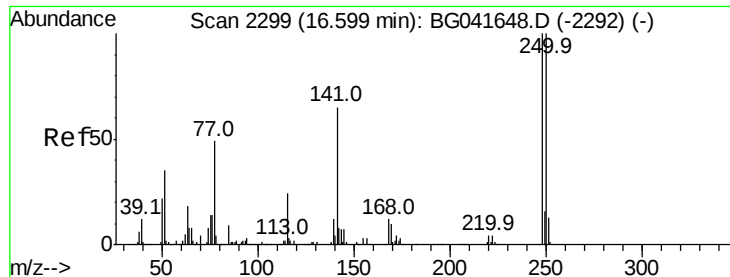
Tot Ion:188 Resp: 624577  
Ion Ratio Lower Upper  
188 100  
94 7.8 6.9 10.3  
80 9.5 8.0 12.0



#65  
4,6-Dinitro-2-methylphenol  
Concen: 7.127 ng  
RT: 16.14 min Scan# 2222  
Delta R.T. 0.36 min  
Lab File: BG041696.D  
Acq: 17 Jul 2019 20:21

Tgt Ion:198 Resp: 1560  
Ion Ratio Lower Upper  
198 100  
51 113.2 22.3 62.3#  
105 132.0 18.0 58.0#

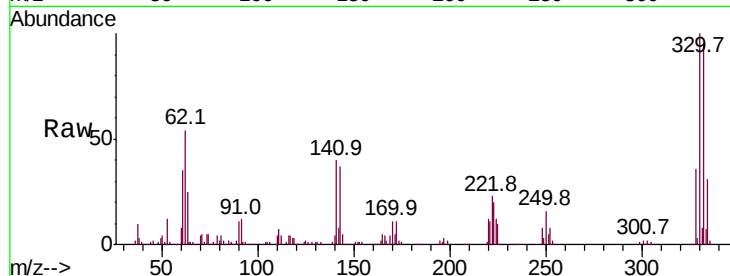




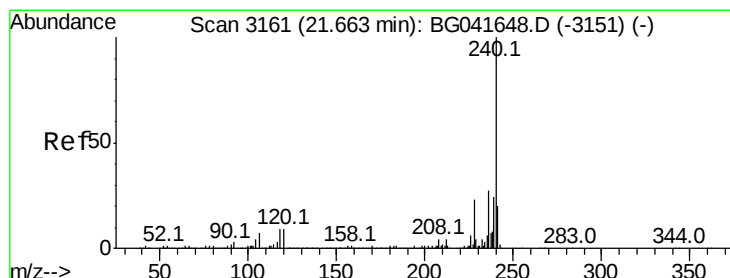
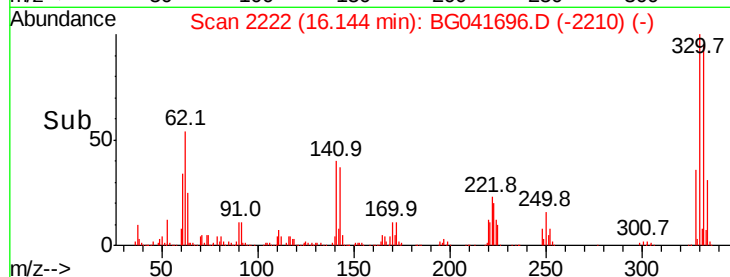
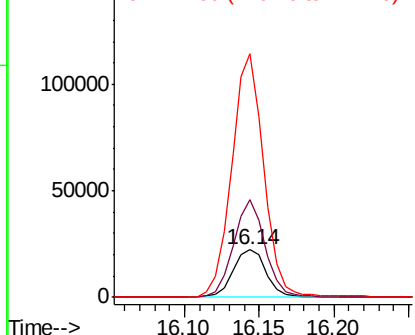
#67  
 4-Bromophenyl-phenylether  
 Concen: 4.636 ng  
 RT: 16.14 min Scan# 2222  
 Delta R.T. -0.46 min  
 Lab File: BG041696.D  
 Acq: 17 Jul 2019 20:21

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:248 Resp: 34456  
 Ion Ratio Lower Upper  
 248 100  
 250 205.1 78.1 117.1#  
 141 511.7 49.6 74.4#

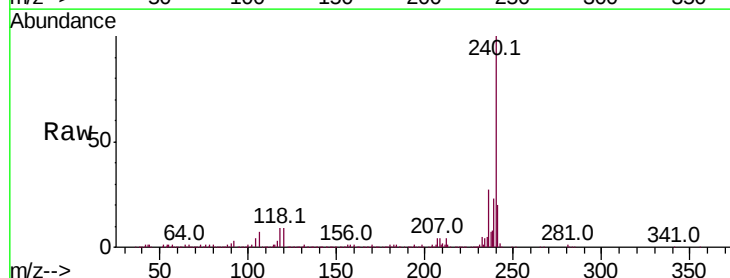


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

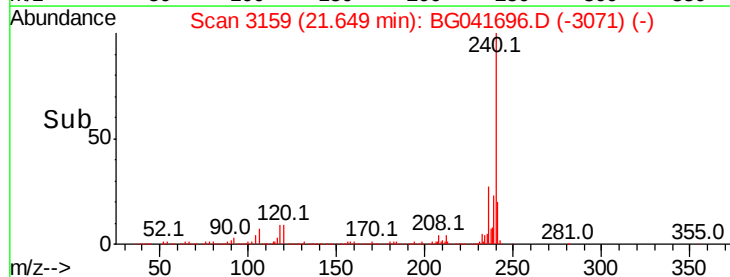
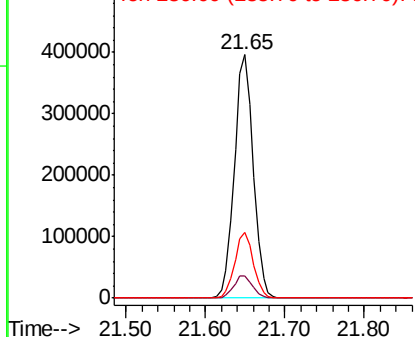


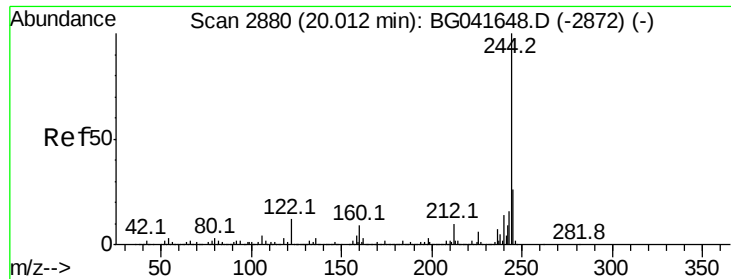
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.65 min Scan# 3159  
 Delta R.T. -0.01 min  
 Lab File: BG041696.D  
 Acq: 17 Jul 2019 20:21

Tgt Ion:240 Resp: 651249  
 Ion Ratio Lower Upper  
 240 100  
 120 9.2 8.0 12.0  
 236 27.1 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



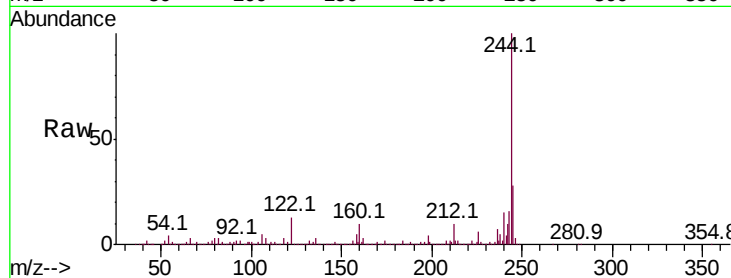


#79  
 Terphenyl-d14  
 Concen: 78.971 ng  
 RT: 20.00 min Scan# 2879  
 Delta R.T. -0.01 min  
 Lab File: BG041696.D  
 Acq: 17 Jul 2019 20:21

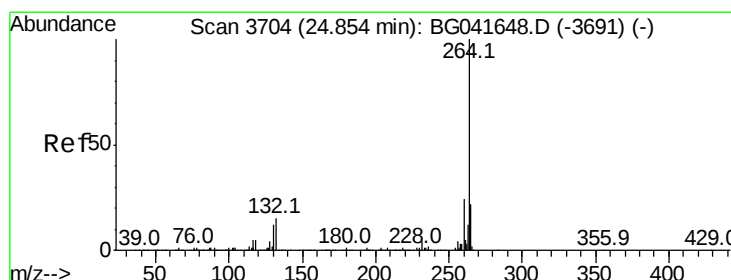
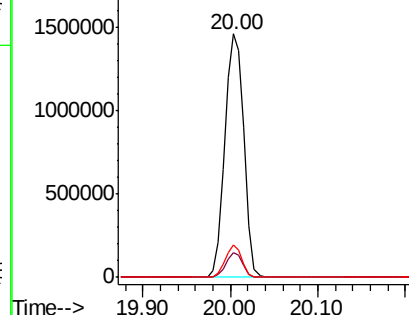
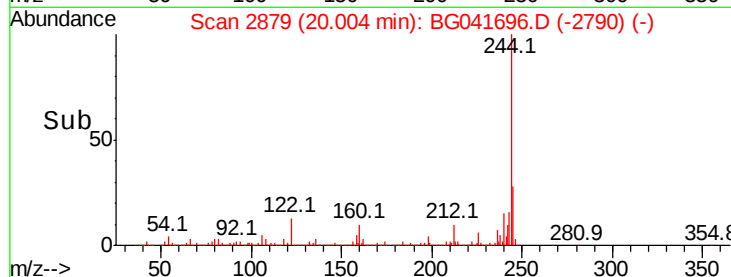
Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:244 Resp: 2200785  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 10.2  | 9.7   | 14.5  |
| 122 | 13.1  | 12.5  | 18.7  |



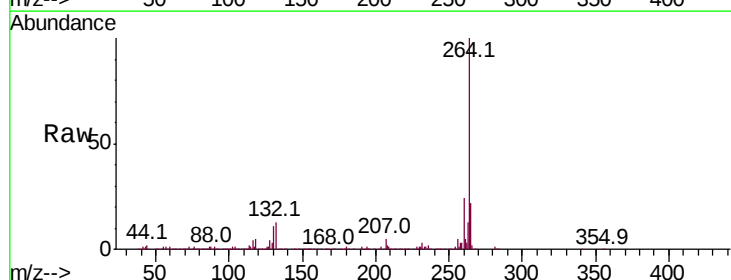
Abundance Ion 244.00 (243.70 to 244.70): E  
 2000000 Ion 212.00 (211.70 to 212.70): E  
 Ion 122.00 (121.70 to 122.70): E



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.85 min Scan# 3703  
 Delta R.T. -0.02 min  
 Lab File: BG041696.D  
 Acq: 17 Jul 2019 20:21

Tgt Ion:264 Resp: 740921  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.9  | 19.5  | 29.3  |
| 265 | 22.1  | 18.0  | 27.0  |



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

